

SEMIEMPIRICAL CALCULATION OF gf VALUES, IV: Fe II

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INTRODUCTION

Fe II is one of the most important ions in astrophysics because of the high abundance of Fe II in many sources and because of the richness of its seven-electron spectrum. It produces important ultraviolet opacity in the sun and in most other normal stars from spectral types K to B. It appears in emission in a variety of objects from Be stars (Viotti, 1976) to quasars (Phillips, 1978), and Type I supernovas evolve into a shell of Fe II as they expand (Meyerott and Gillespie, 1980).

Although recently tremendous advances have occurred in our knowledge of the spectrum through the work of Johansson (1978), many important configurations have not yet been observed, and, of the observed configurations, many levels are missing. From only the known configurations we can generate over 400,000 lines that can contribute significant opacity. Study of the 7s, 6p, 7p, 6d, 7d, 5f, 6f, 4s5p, etc. configurations would easily bring the total to over 1,000,000 lines.

In the first paper in this series (Kurucz, 1973), we described in detail a semi-empirical method for calculating gf values. In this procedure, a program written by Cowan (1968) is used to produce LS transition arrays and electrostatic spin-orbit matrices. Transition integrals are evaluated with scaled Thomas-Fermi-Dirac wavefunctions following Warner (1968). Eigenvectors are found through a least-squares procedure that fits computed eigenvalues to observed energy levels; then, the eigenvectors are used to transform the LS transition array to the observed coupling scheme. Since the methods have already been described, we present only the final results for Fe II.

This research was supported in part by grant NSG 7054 from the National Aeronautics and Space Administration.

Table 1 lists the Slater parameters and Table 2 the observed energies, eigenvalues, and principal eigenvector components for the even levels. Tables 3 and 4 do the same for the odd levels. Transition integrals appear in Table 5. The complete transition array is too large to publish, but the 431,933 strongest lines are available on magnetic tape from the author. Table 6 lists A-sums, f-sums, and Stark and van der Waals constants for each level. Table 7 lists all 22,547 lines from the magnetic tape that are between observed levels. Below we compare these calculations with other work, discuss errors in this work, and outline future calculations.

COMPARISON WITH OTHER WORK

In this discussion following abbreviations are used:

A:	Andersen (1970).
AS:	Assousa and Smith (1972).
BELS:	Brzozowski, Erman, Lyyra, and Smith (1976).
BGHR:	Baschek, Garz, Holweger, and Richter (1970).
BR:	Bridges (1973).
BSS:	Blackwell, Shallis, and Simmons (1980).
CB:	Corliss and Bozman (1962).
DMPY:	deBoer, Morton, Pottasch, and York (1974).
DMS:	Dolby, McWhirter, and Sofield (1979).
G:	Groth (1961).
GHP:	Grasdalen, Huber, and Parkinson (1969).
HU:	Huber (1974).
K:	This work.
KP:	Kurucz and Peytremann (1975).
KU:	Kuzmickyte and Uspalis (1969, 1970, 1973).
MOI:	Moity (1979).
MOSM:	Morton and Smith (1973).
MS:	Morozova and Startsev (1964).
NBS:	Martin and Fuhr (1979).
NS:	Nussbaumer and Storey (1980).
P:	Phillips (1979).
R:	Roder (1962).
SW:	Smith and Whaling (1973).
WA:	Warner (1967).
WAR:	Warner (1967) corrected by Smith (1976).
WBW:	Wolnick, Berthel, and Wares (1971).

In Table 8 we list all published lifetimes for Fe II and in Table 9 all published gf values. (For KP, because there are so many, we list only those lines also published by another source.)

Data from five papers on lifetimes are given in Table 8:

A: Andersen (1970) made beam-foil measurements of four doublet terms. The K lifetimes are 25% shorter.

AS: Assousa and Smith (1972) made electron-beam phase-shift measurements of the three lowest sextet terms. Their description is not very complete. K is 25% smaller than AS.

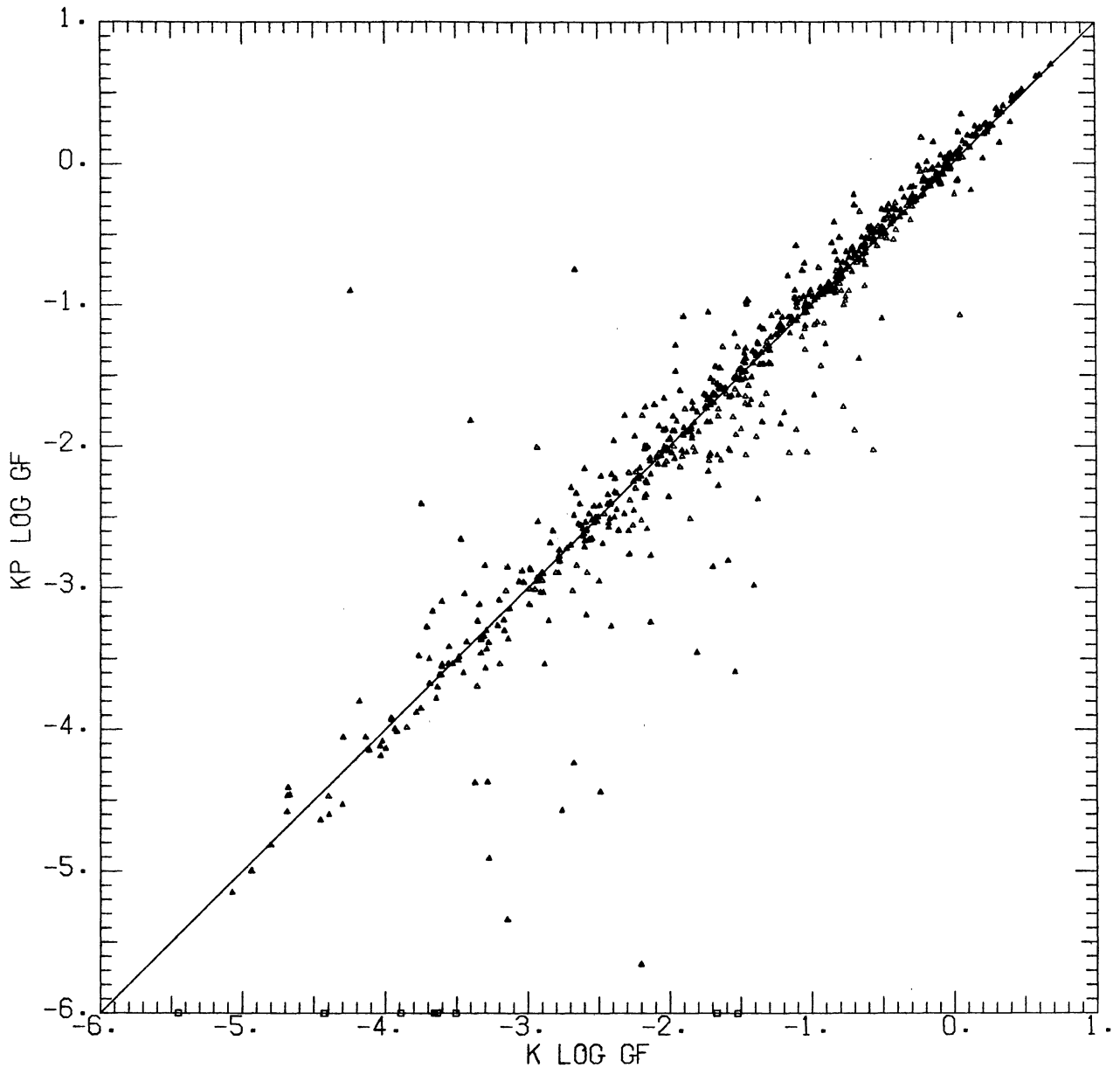
SW: Smith and Whaling (1973) made beam-foil measurements of four doublet terms. The K lifetimes are 25% shorter.

BELS: Brzozowski, Erman, Lyyra, and Smith (1976) made high-frequency deflection measurements of the same sextets as AS and their paper shows a spectrum that resolves the lines. BELS used a high enough voltage that one would expect higher states to be populated and to cascade, but no cascading was found. The BELS lifetimes are a bit larger than AS, and the K lifetimes are 25% shorter than BELS.

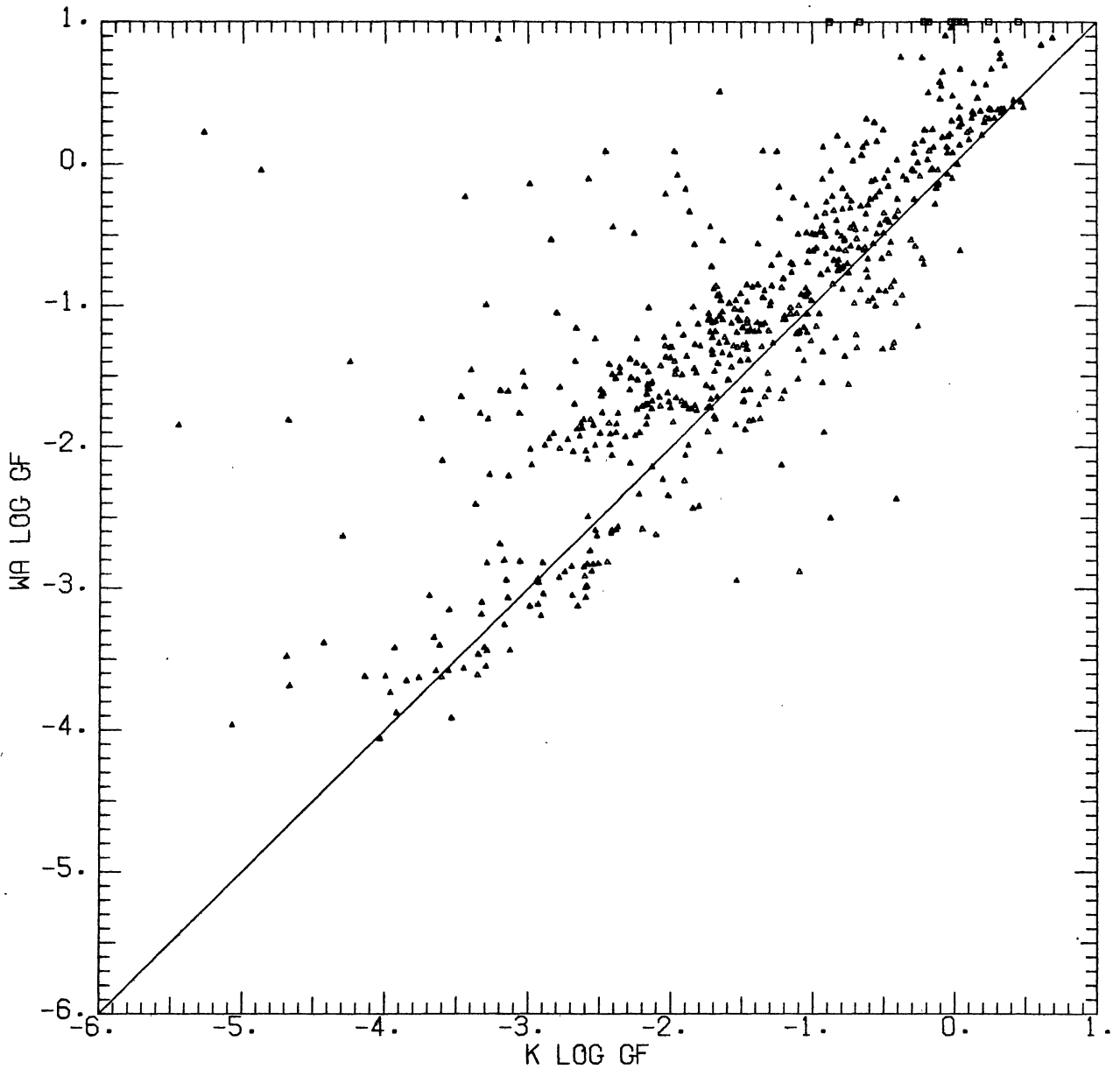
DMS: Dolby, McWhirter, and Sofield (1979). These are beam-foil lifetimes measured from low-resolution spectra. They cannot be reliable because of multiple cascading and because each feature is a blend that includes hundreds of lines.

If the A, AS, SW, and BELS measurements are correct, then the K lifetimes are approximately 25% too small and the K gf scale is too large by 0.10 in the log. However, because all these experiments were done at energies high enough to excite the upper levels and ions and should have produced dozens of cascades to the measured terms, and also blends and a varying background of weak unresolved lines, it is possible that the measurements are systematically too large.

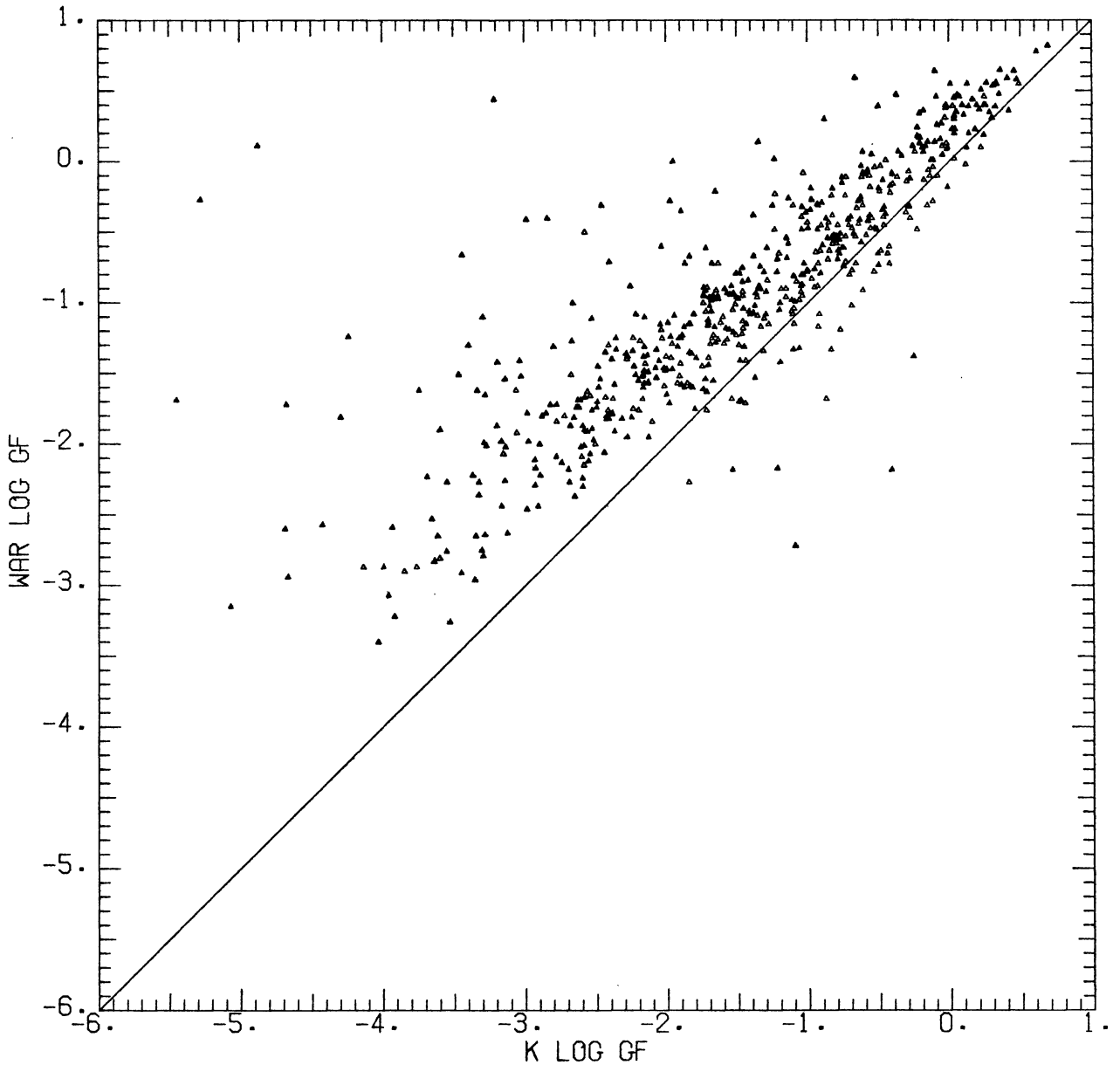
Next we discuss the papers on gf values and plot the data from each one relative to K, first, the largest line lists, then the papers cited by NBS, and finally all the other work:



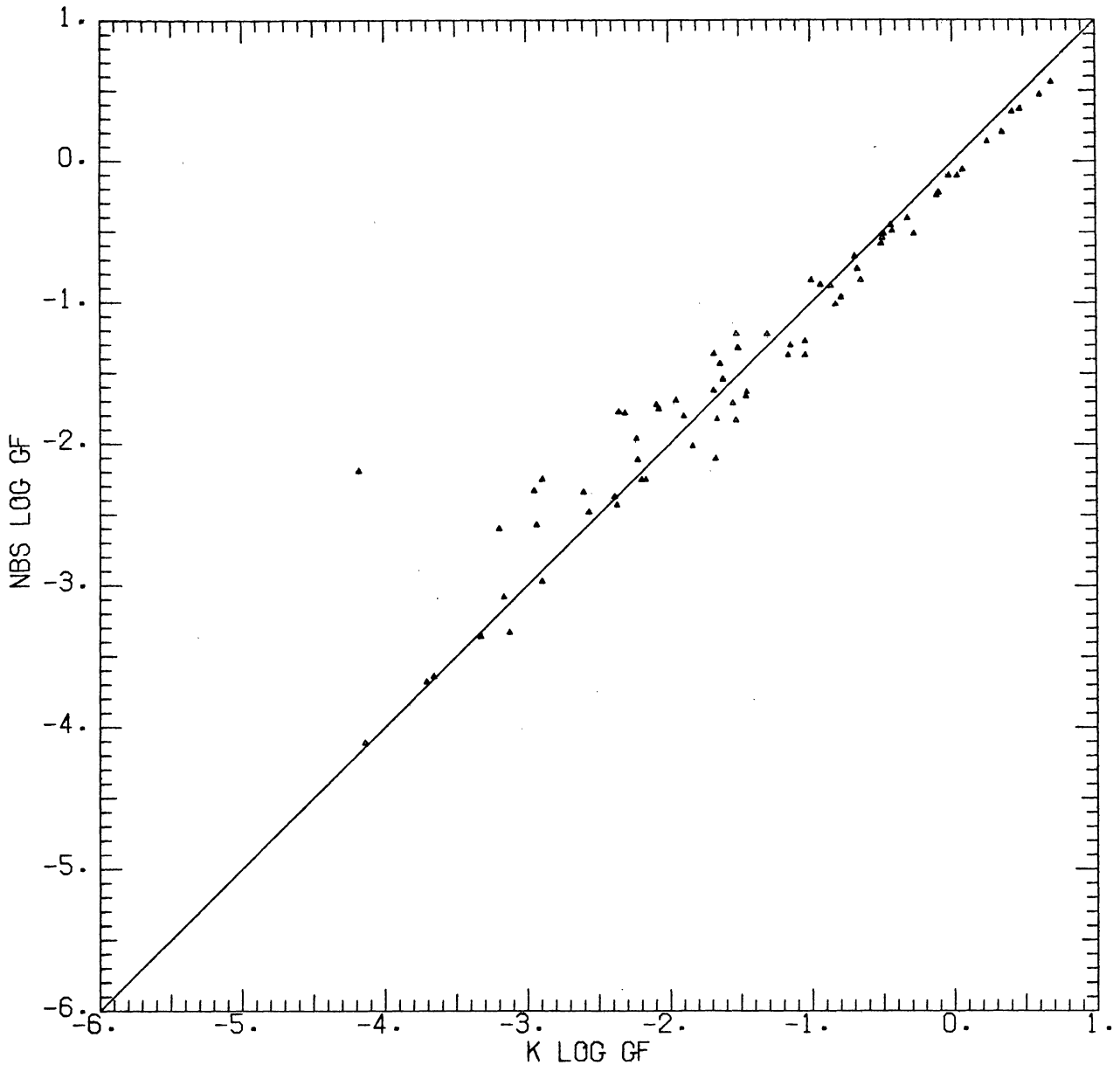
KP: Kurucz and Peytremann (1975). The present work is a repeat with new energy levels of the calculation by KP in 1972 who used the many fewer levels known at that time. Since the average energy of each configuration has not changed much, the wavefunctions, transition integrals, and overall scale must necessarily be similar. Mixing in the eigenvectors, however, is greatly improved. For example, Table 10 shows the LS forbidden multiplets 40 to 44 that were notoriously too weak in KP because of a bad eigenvector for the 6^6S level. In the plot these lines are indicated on the lower margin. The new values are much more reasonable.



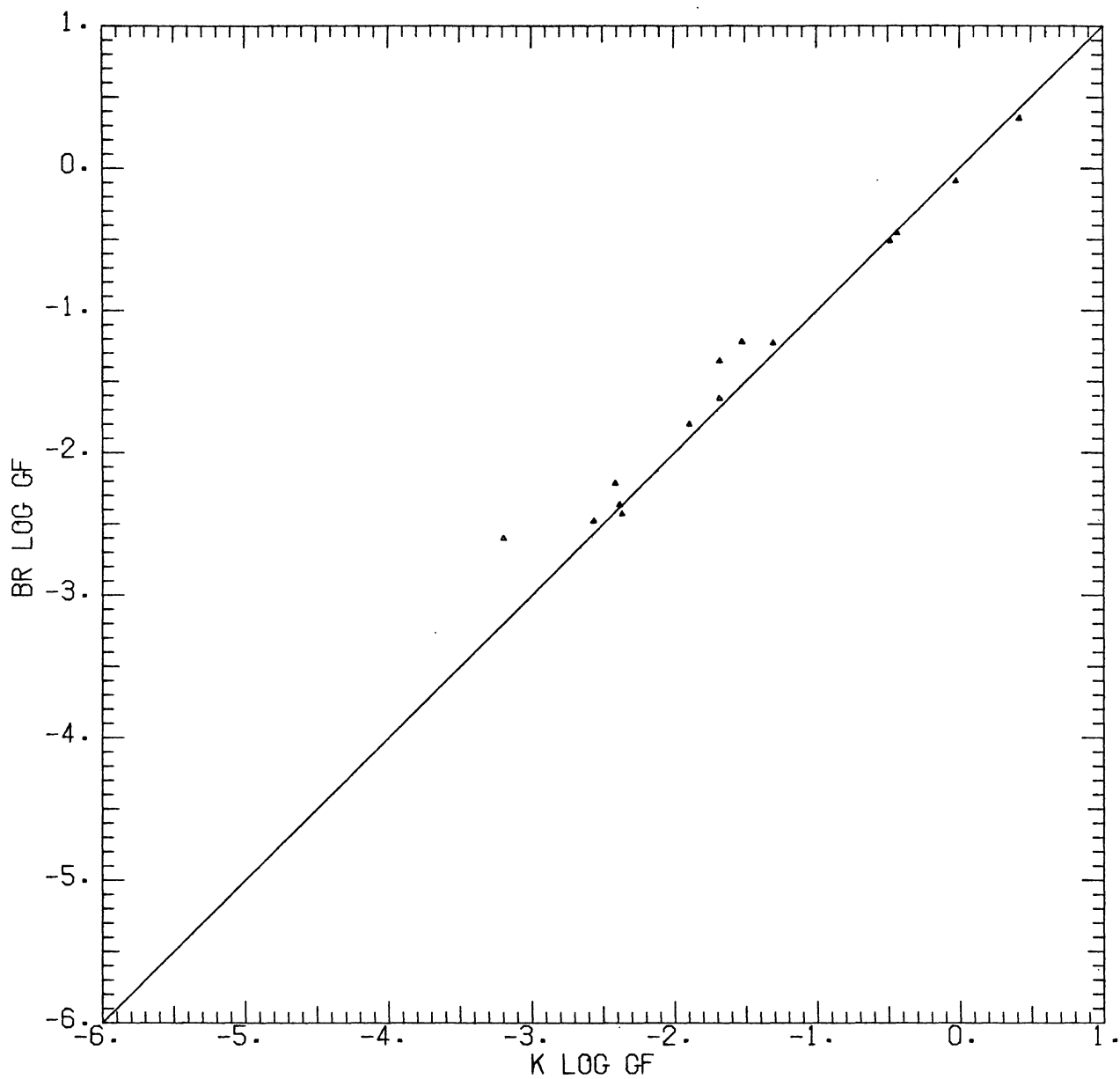
WA: Warner (1967). These arc measurements are the largest body of laboratory data for Fe II. The large systematic errors are caused by inadequate physical characterization of the arc in the data reduction. The attempt to correct these data by Smith (1976) is shown on the next page.



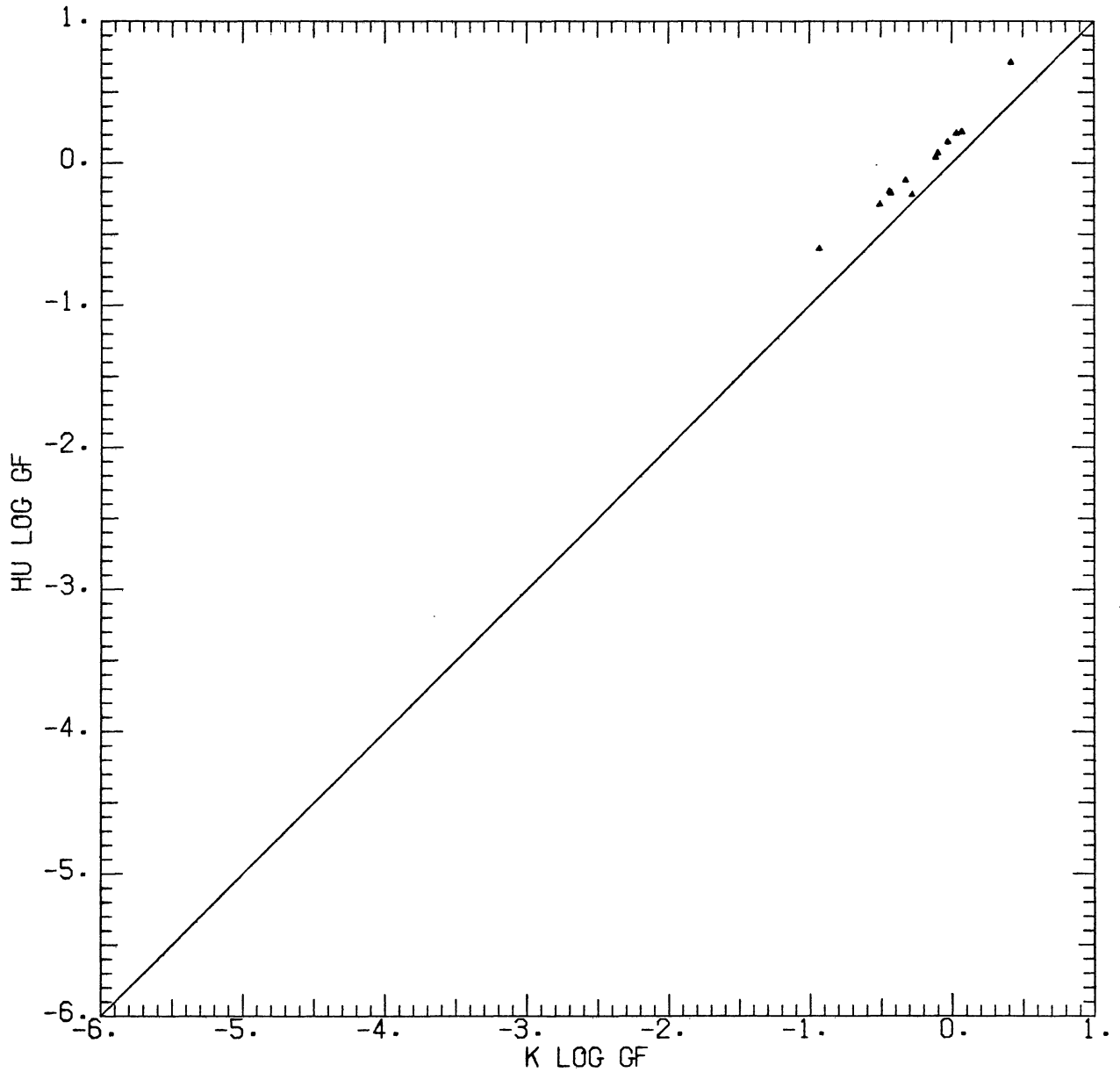
WAR: Warner (1967) corrected by Smith (1976). Smith found that the corrections $-0.000026 E_{up} + 0.45$, for $E_{up} < 50000$; $0.000074 E_{up} - 4.55$, for $50000 < E_{up} < 60000$; and $0.000024 E_{up} - 1.55$, for $60000 < E_{up}$, where E_{up} is the upper energy in cm^{-1} , when added to the WA log gf's could bring the WA values into closer agreement with other more reliable laboratory measurements. Comparing to the previous figure it is obvious that the correction improves the strong lines. However, a scale shift and an error in slope still remain. We cannot tell from this figure whether the scatter arises from WA or K or both. The most discrepant lines will be individually investigated.



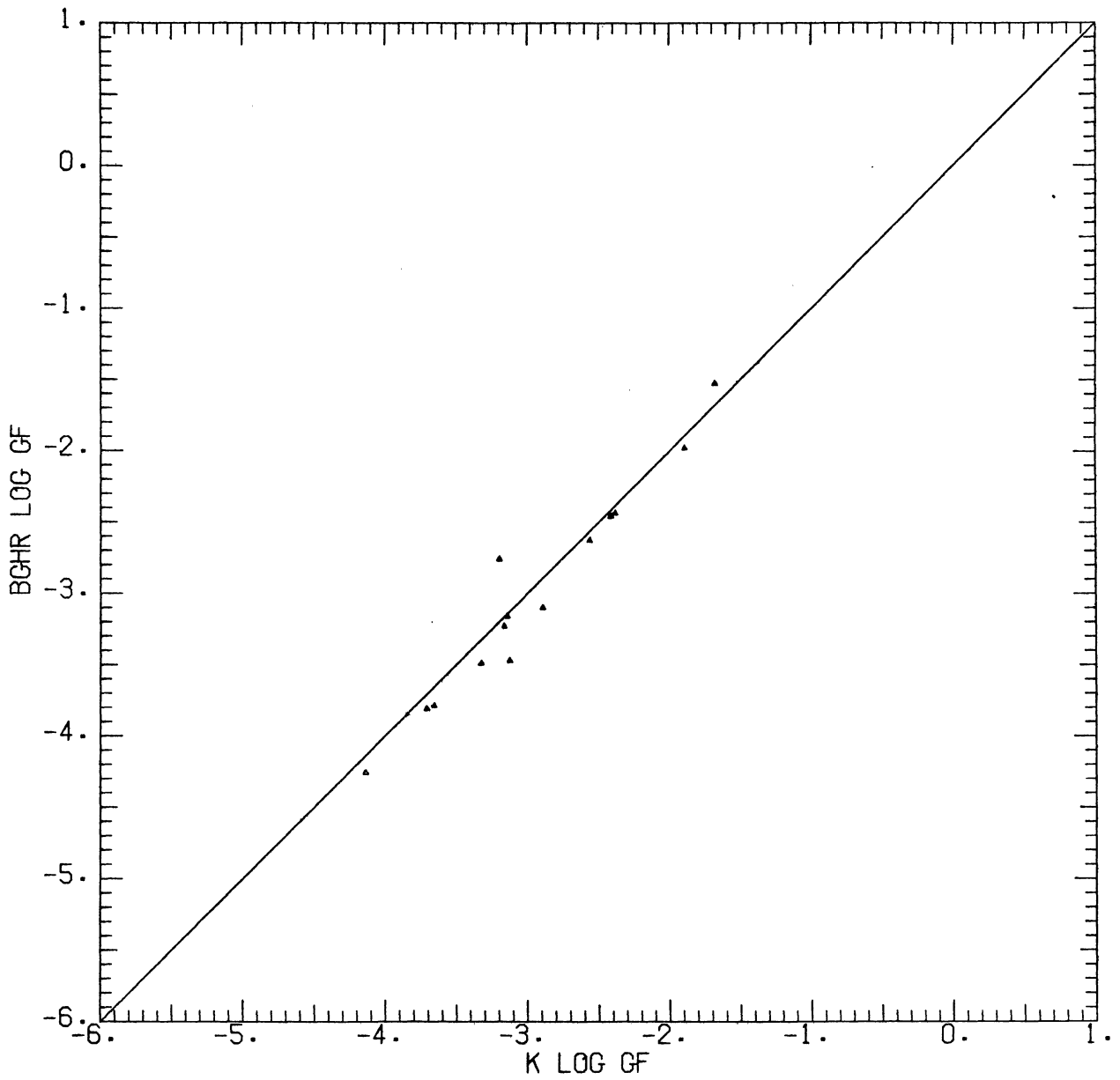
NBS: Martin and Fuhr (1979). The NBS compilation of "best" values is a selection from the data of BR, HU, BGHR, WBW, SW, AS, and BELS, each which is also presented separately following. NBS have added 0.149 in the log to BGHR and -0.284 to HU to bring them onto a scale consistent with BR. The discordant point is 299.7738 from SW. If only the dozen strongest NBS lines are considered, our calculations are systematically larger by 0.14 in the log. However, if we consider all the data, it is not obvious that there is a systematic difference.



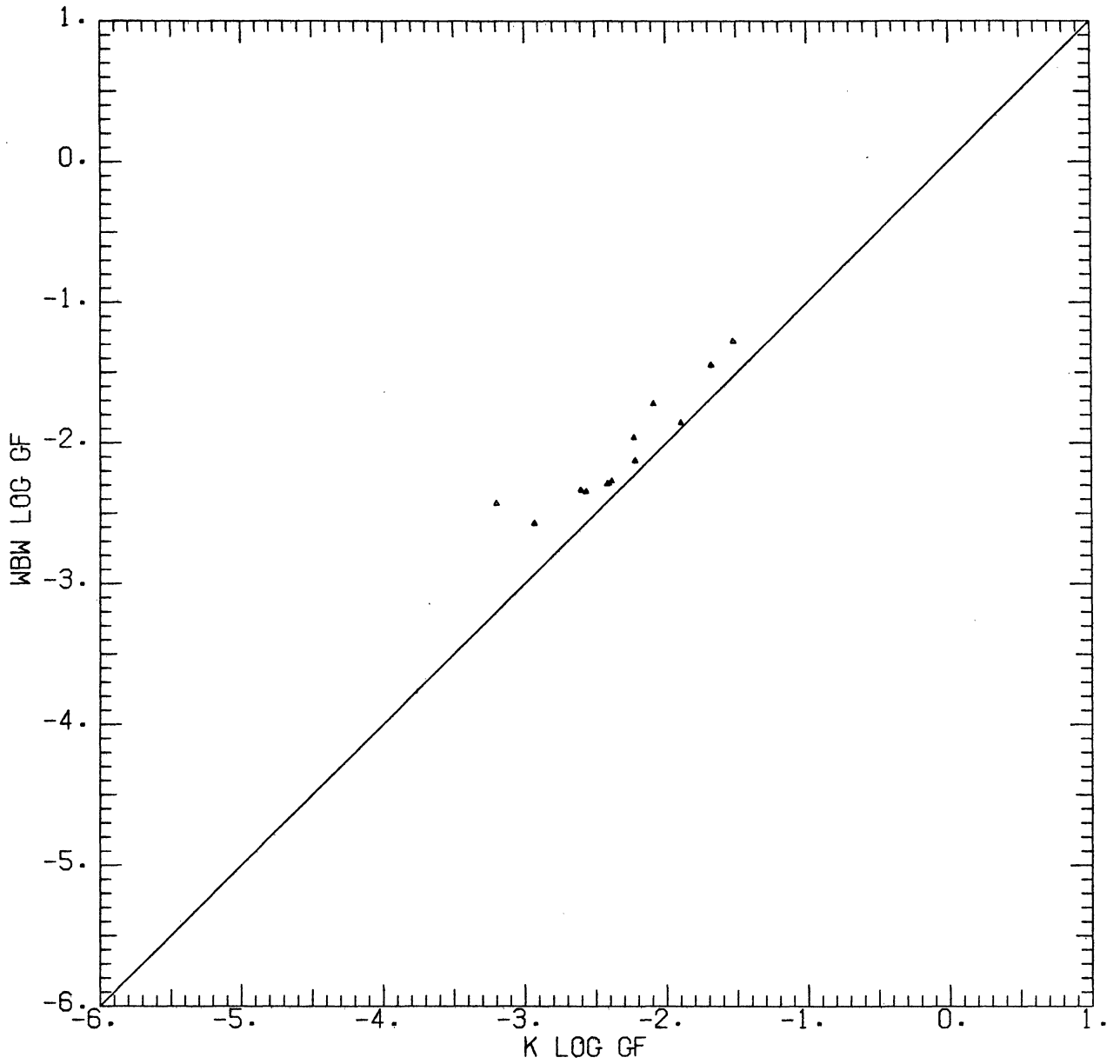
BR: Bridges (1973). These arc measurements are normalized to the AS lifetime for the ${}^6\text{D}_{9/2}$ level. There does not appear to be any systematic difference.



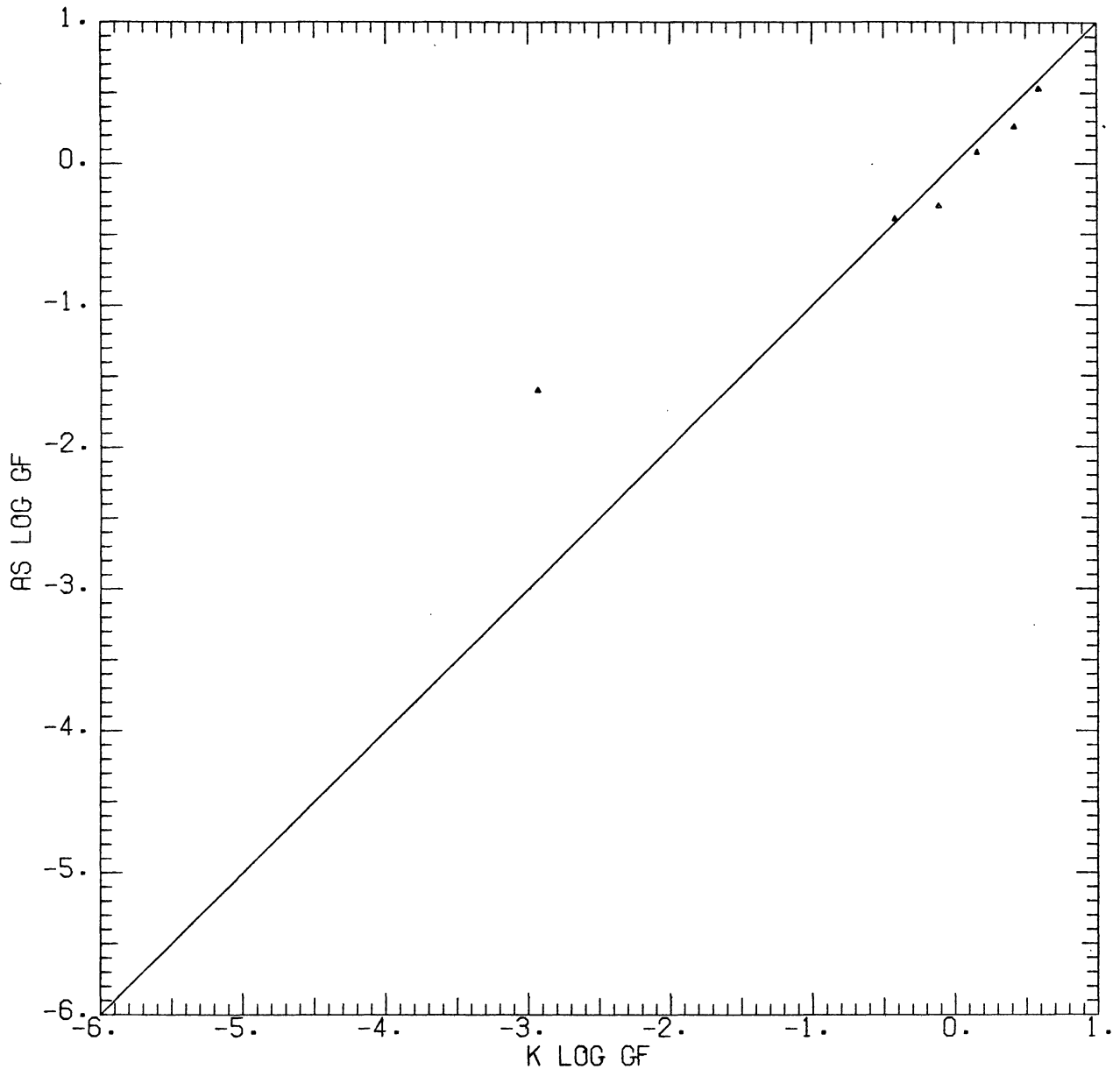
HU: Huber (1974). These shock-tube hook measurements have been put on an absolute scale by using known gf values for Fe I lines that appeared in the same shocks. HU used Fe I measurements from Banfield and Huber (1973). The HU values are systematically larger than K by 0.15 in the log.



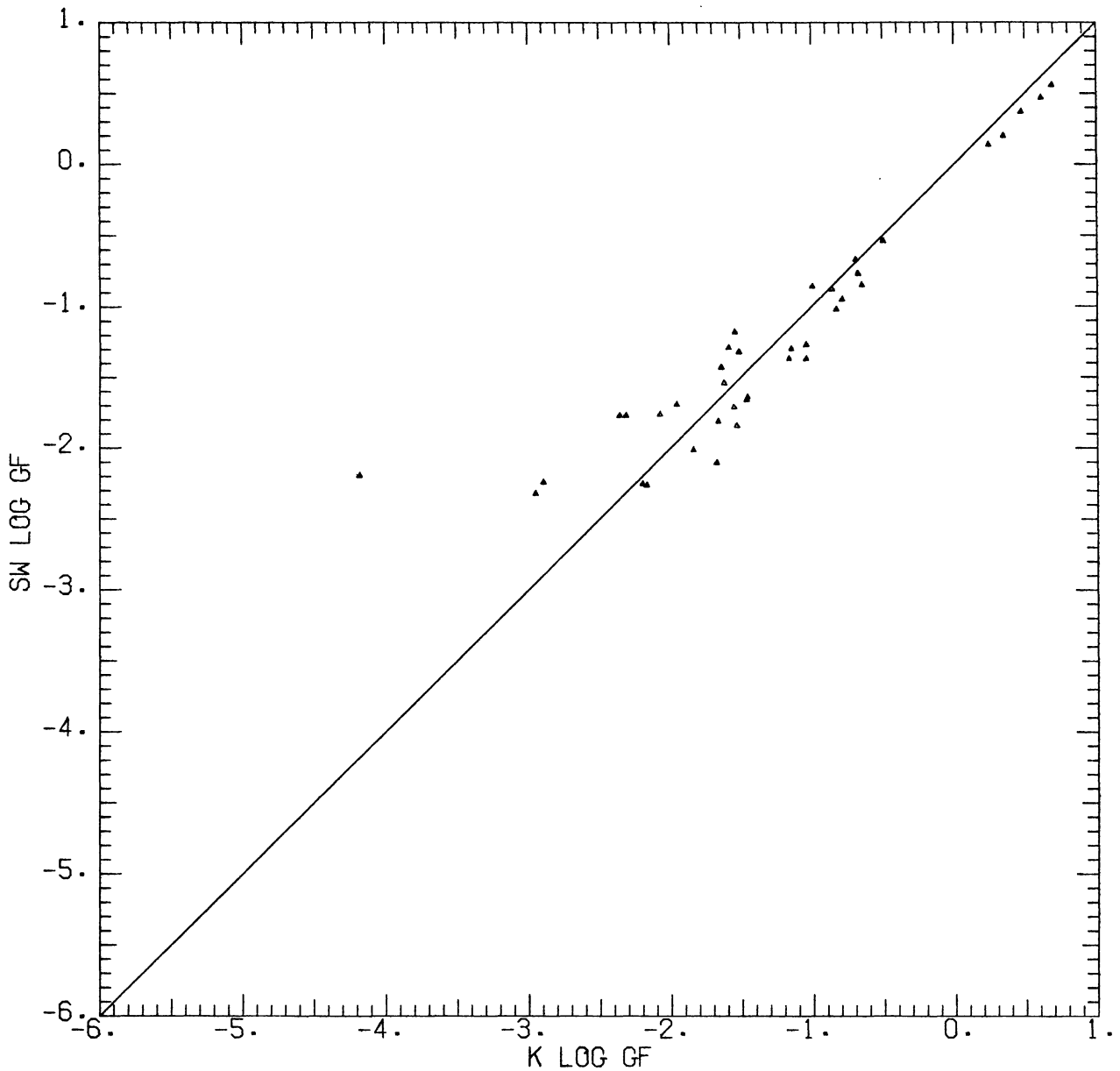
BGHR: Baschek, Garz, Holweger, and Richter (1970). These are measurements are on a scale slightly smaller than K.



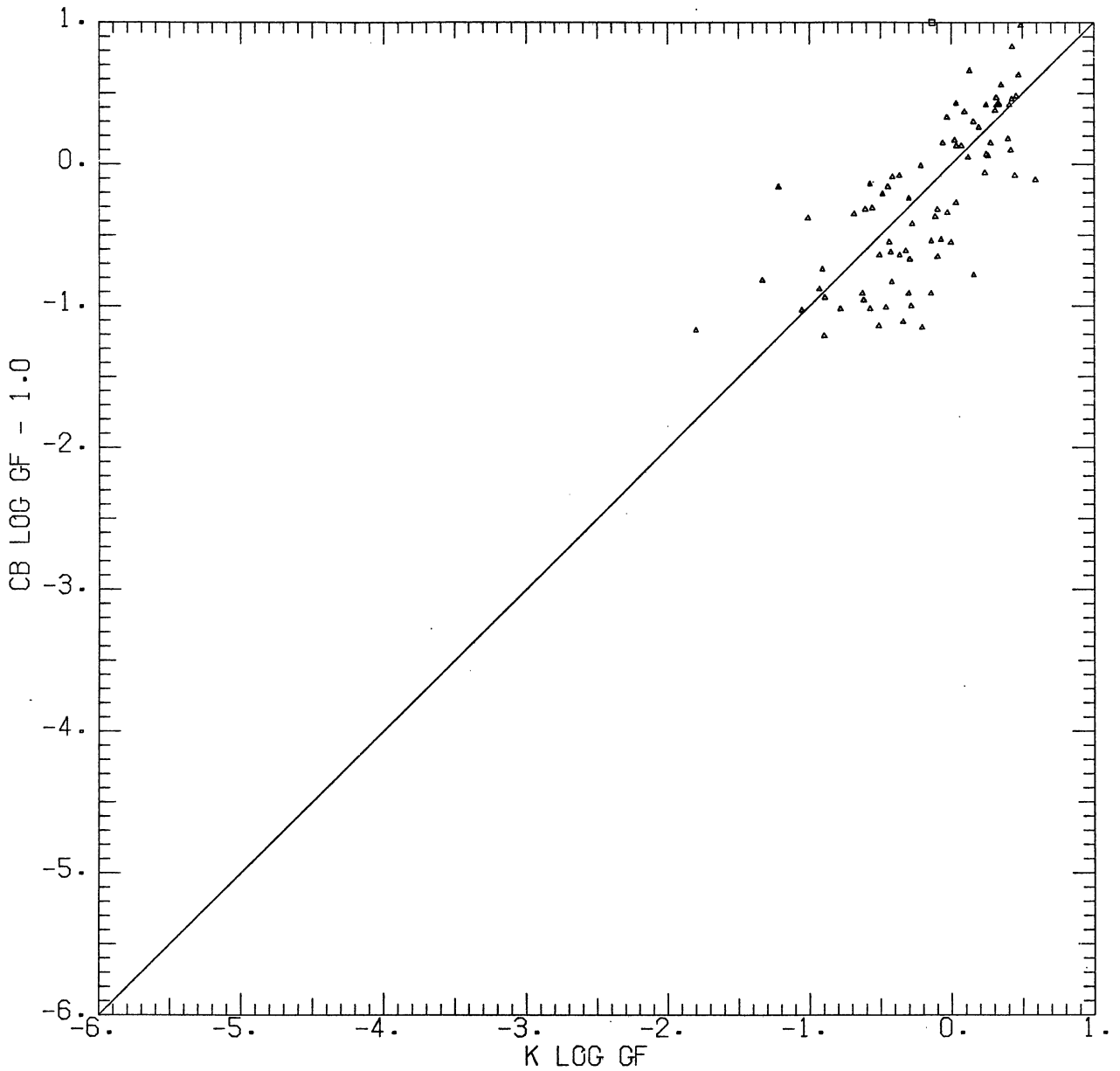
WBW: Wolnick, Berthel, and Wares (1971). These shock-tube measurements are slightly too large.



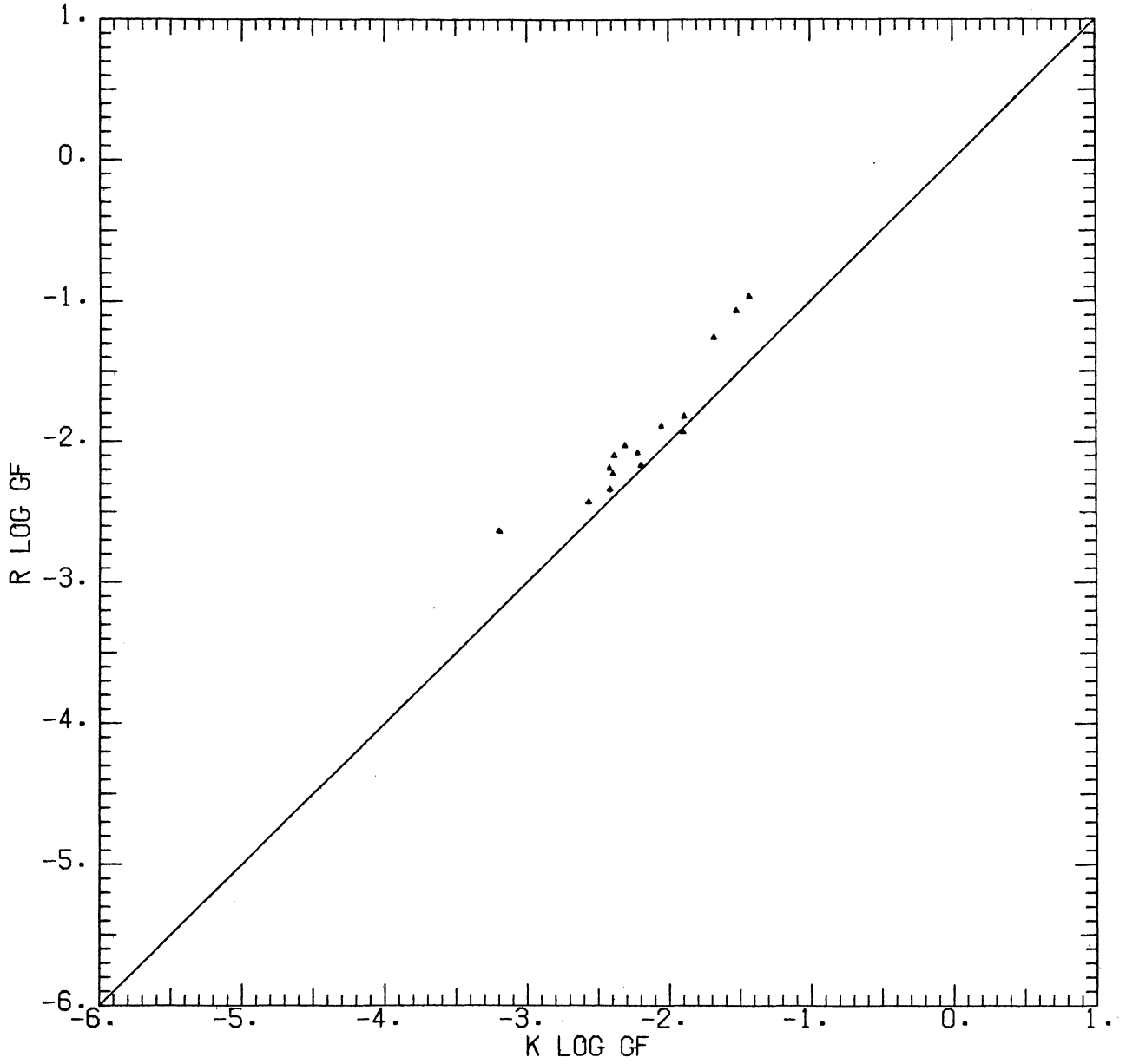
AS: Assousa and Smith (1972). These electron-beam phase-shift lifetime measurements have been converted to multiplet gf values by using branching ratios derived from published gf measurements. AS divided the multiplets into lines by using an intermediate coupling calculation. The discordant line is 236.6867, which is also present in NS. It is strongly blended in the solar spectrum. None of the values for it should be trusted. If we compare the lifetimes directly in Table 8, we find that K is 20% smaller than AS so that the K gf scale is 20% larger than AS.



SW: Smith and Whaling (1973). These beam-foil lifetime measurements have been converted to gf values by using measured branching ratios. We compare to their lifetimes in Table 8 and find that K lifetimes are 25% shorter so that the K gf scale should be 25% larger. In the plot we see that the five strongest lines are systematically larger in K than in SW. The bad point in the plot is 299.8852. K produces a line of approximately the right strength in the solar spectrum. SW would be too strong. SW list the branching ratio for this line as 0.0020 ± 0.0020 . Neither value should be trusted without further investigation.



CB: Corliss and Bozman (1962). These arc measurements have been reduced by a factor of 10 in this plot. The original numbers are given in Table 9. The large systematic errors are caused by inadequate physical characterization of the arc in the data reduction.

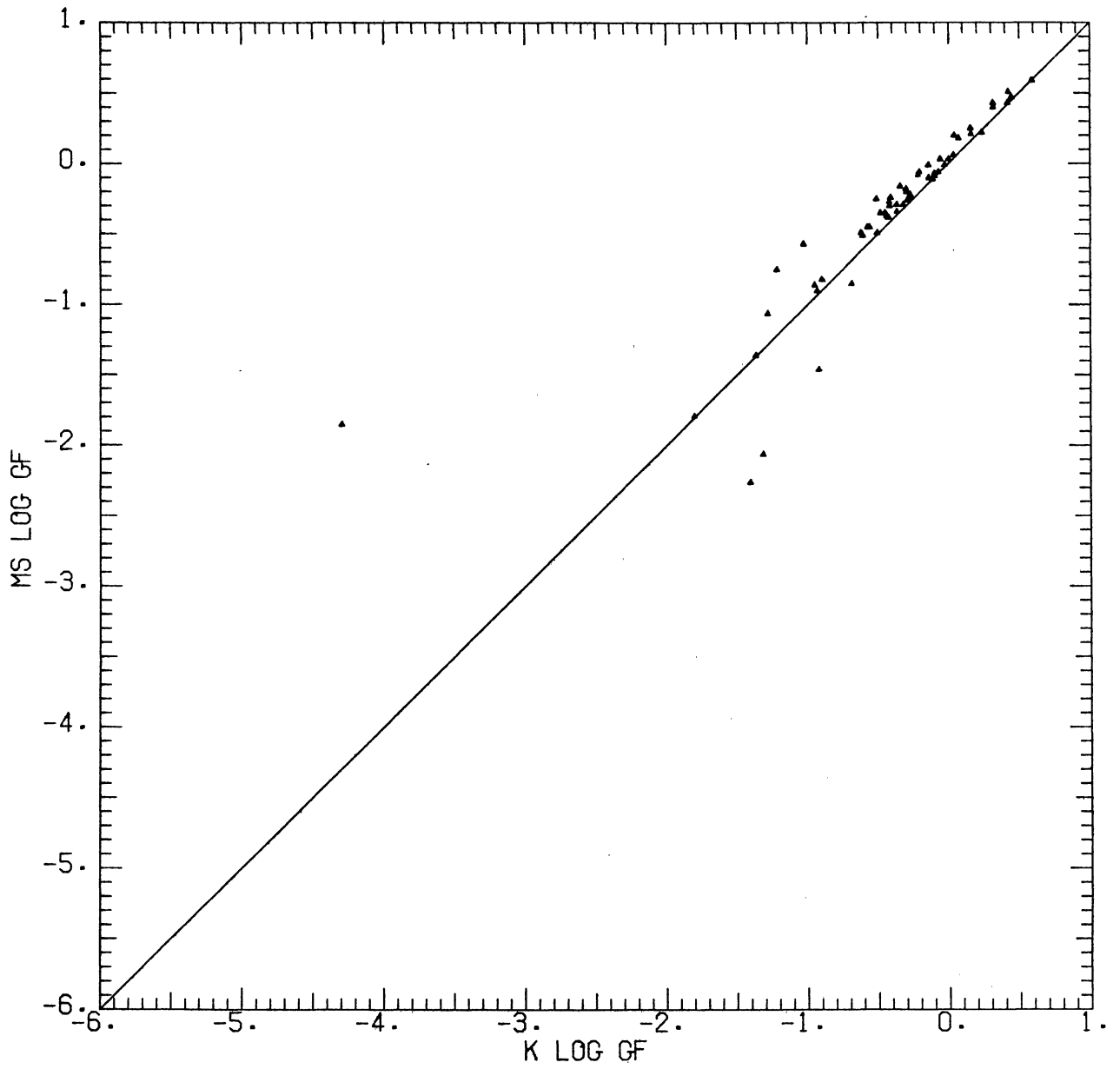


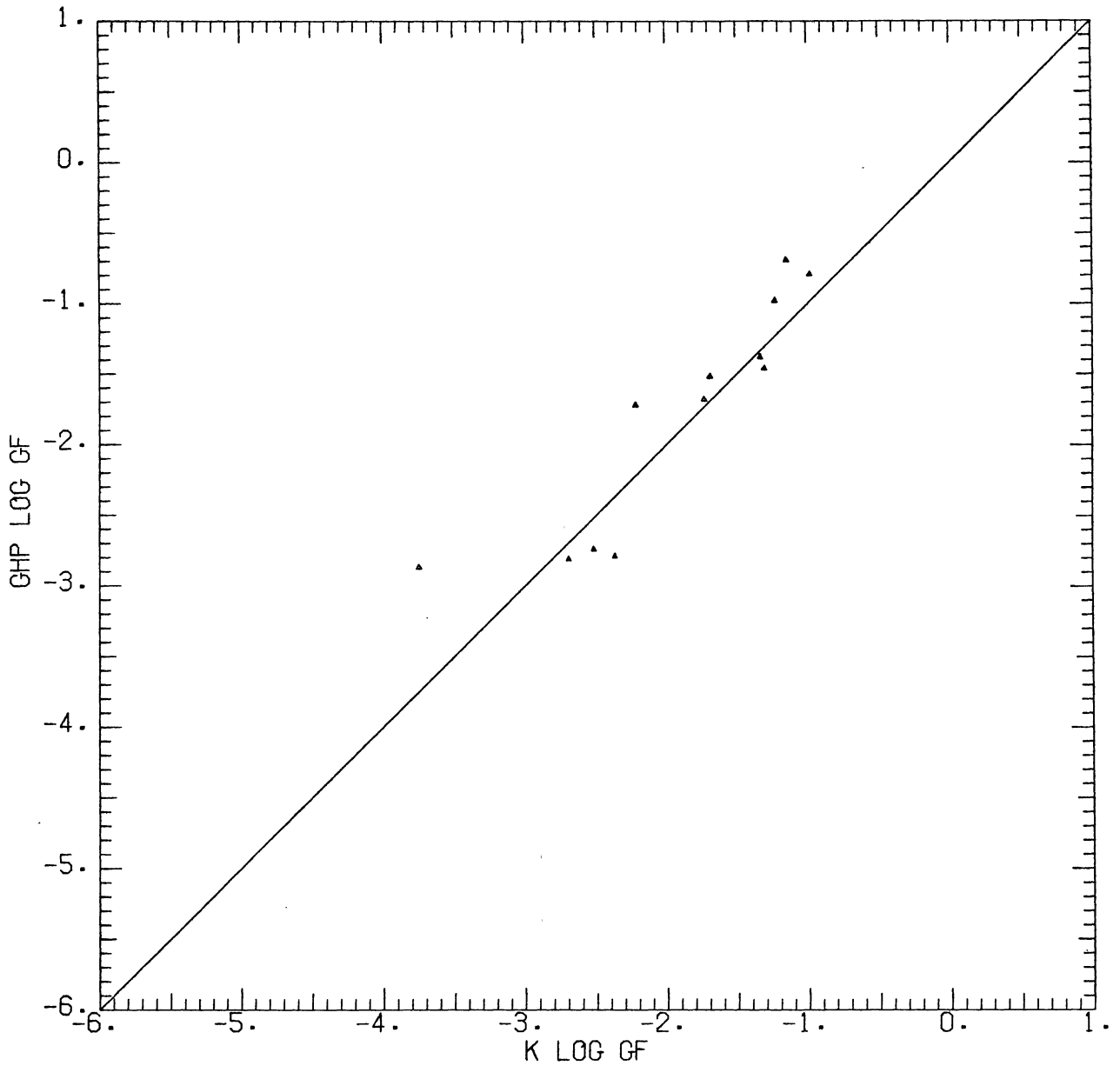
R: Roder (1962). These arc measurements are systematically large by 0.2 to 0.3 in log gf.

MS: Morozova and Startsev (1964). These relative arc measurements were normalized years ago by adjusting multiplet 2 to the scale of the Coulomb values given by Warner (1967). The normalization was a shift of -2.00 in $\log gf$. The bad line is 269.2834; it is computed too weak in the solar spectrum if the K gf value is used. If we examine the eigenvectors in Tables 2 and 4, we see that the lower level 7955.299, 3.5 is almost pure $d^6 4s (5D)4D$ and that the upper level 45079.879, 2.5 is $d^6 4p \{-0.961(5D)4F -0.204(5D)4D +0.120(5D)6F +0.079(3G)4F\}$. If we look up the possible LS transitions between this eigenvector and the lower level that we assume to be pure LS, we find that the LS transitions accidentally cancel in transforming to intermediate coupling:

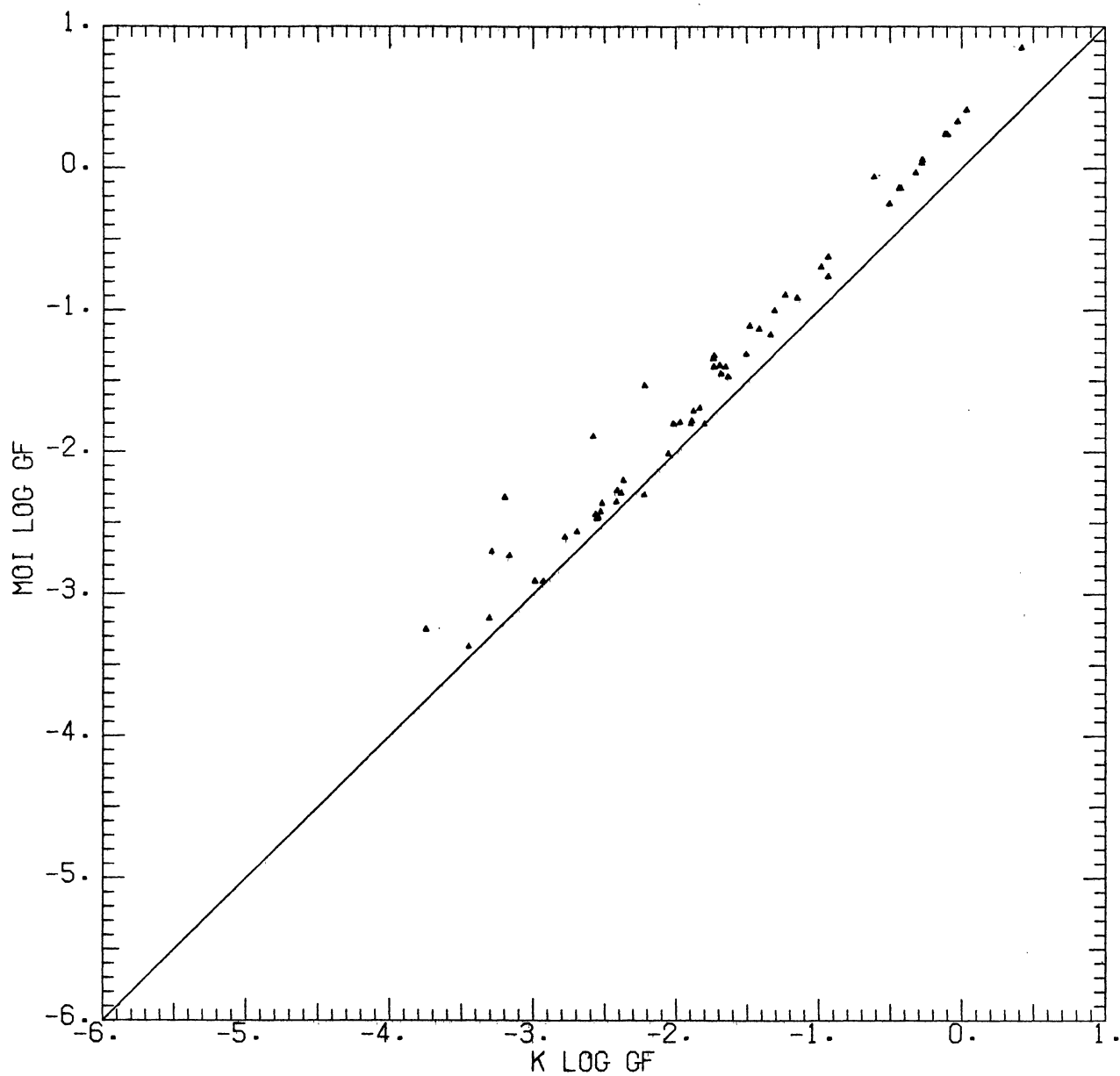
$(5D)4D - (5D)4F$	$-0.961 \times +0.138 =$	-0.133
$(5D)4D - (5D)4D$	$-0.204 \times -0.617 =$	0.126
$(5D)4D - (5D)6F$	$+0.120 \times 0.000 =$	0.000
$(5D)4D - (3G)4F$	$+0.079 \times 0.000 =$	0.000
	Sum	-0.007

(A listing of the LS transition array can be obtained from the author. It is too long to print in this report.) Thus we have a case where the calculated gf value is extremely sensitive to the eigenvector and, in this case, is too small because of cancellation.

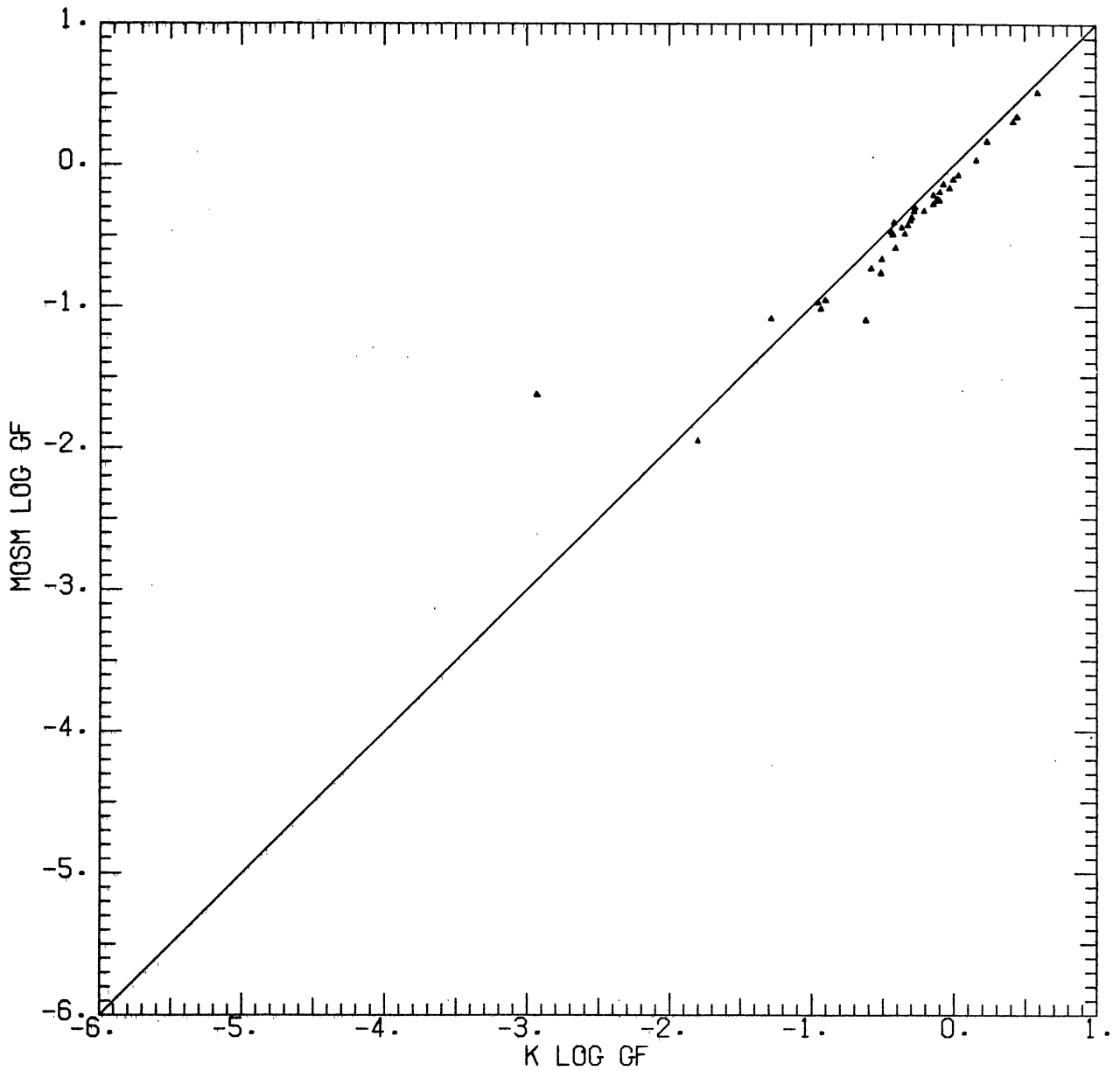




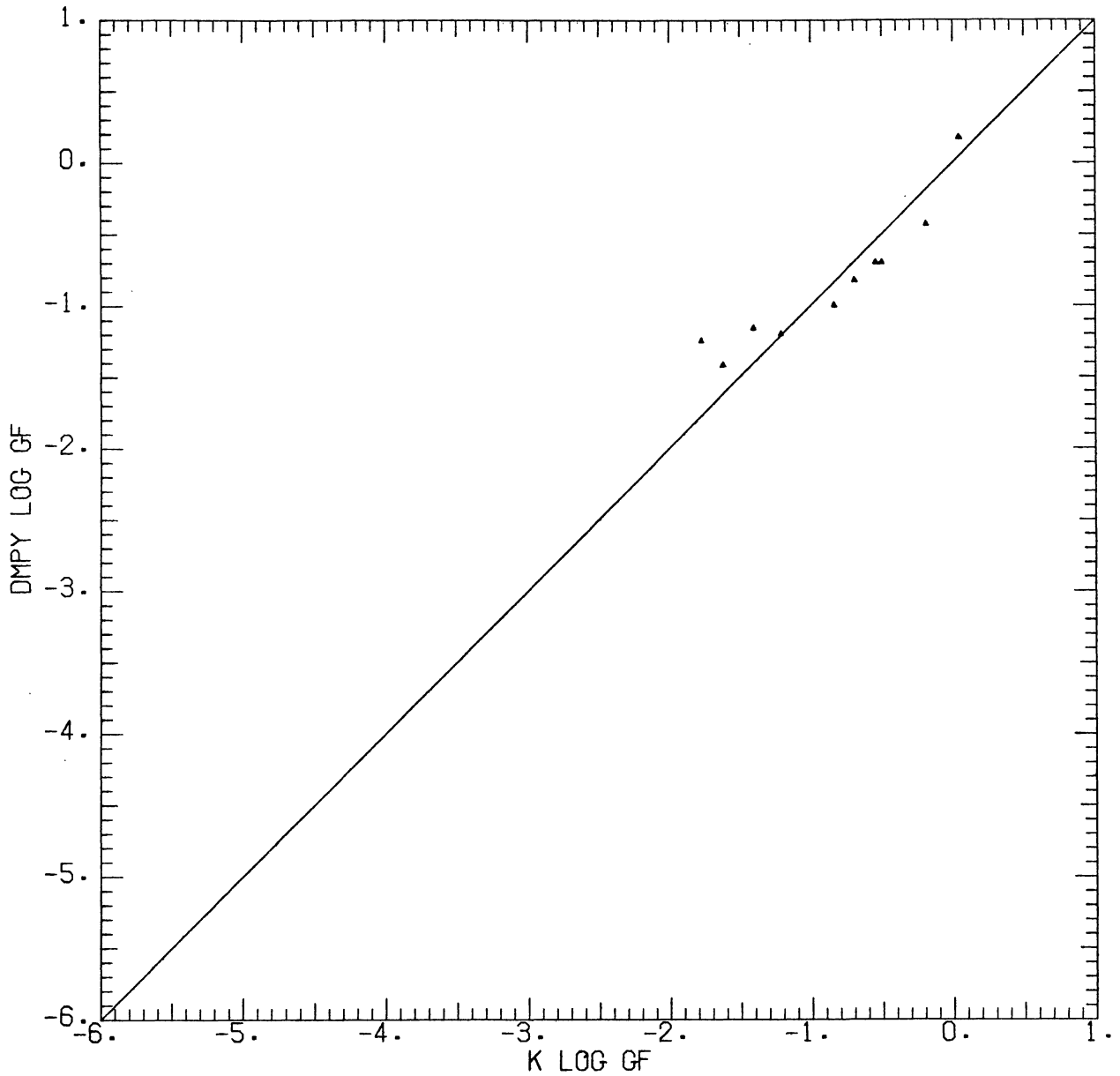
GHP: Grasdalen, Huber, and Parkinson (1969). These are shock-tube measurements. The lowest four lines in the plot have similar energies and similar gf values in GHP but have a range of equivalent width of over a factor of 2 in the sun, so there is obviously some problem with the measurement. The most discrepant line 328.5408, is a transition between 8680.454, 1.5, which is almost pure ^4D , and 39109.307, 0.5, which is mainly ^6D . Thus the gf value for the transition must depend on very minor components and should not be trusted without further investigation.



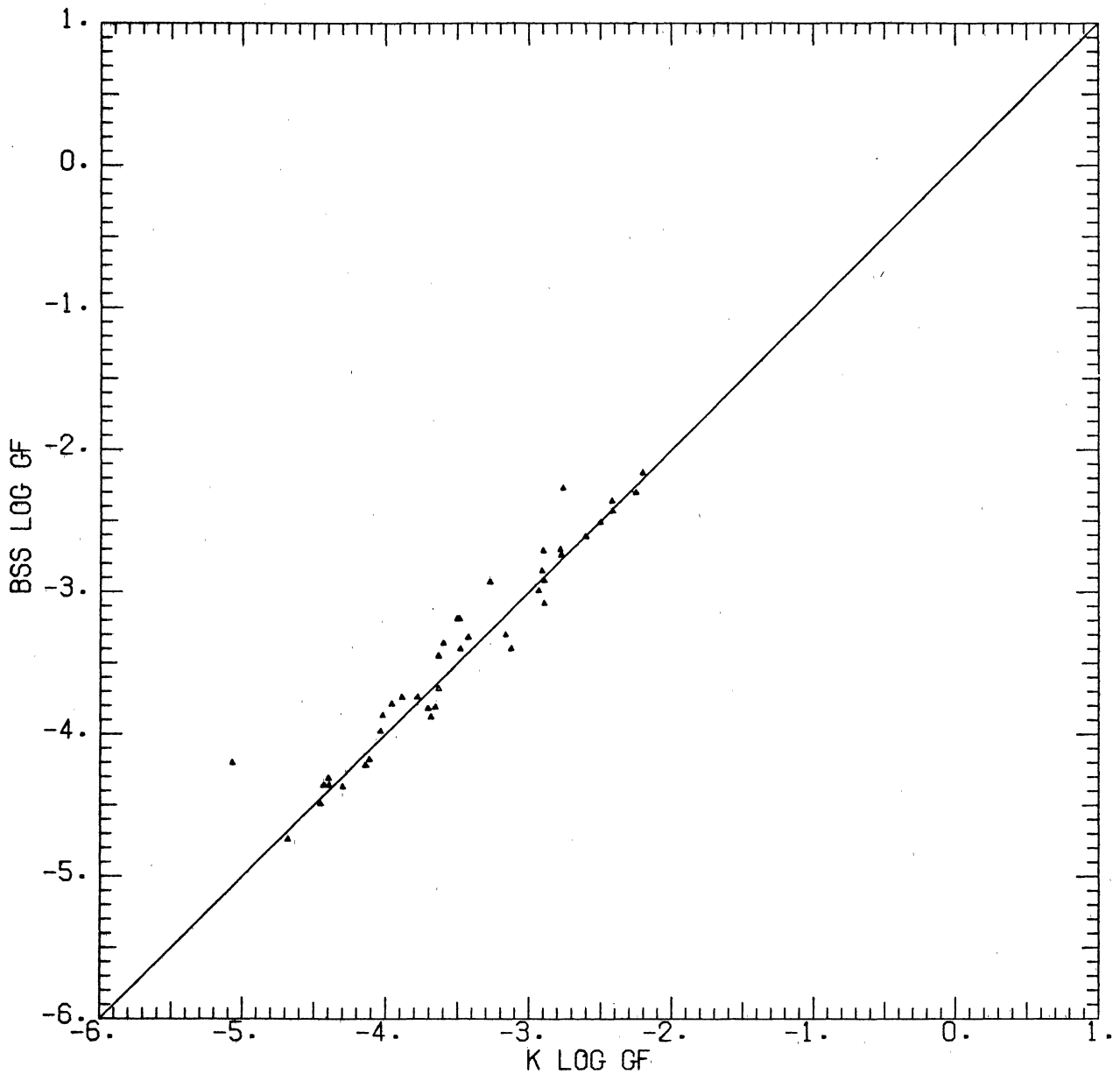
MOI: Moity (1979). These arc measurements are systematically large.



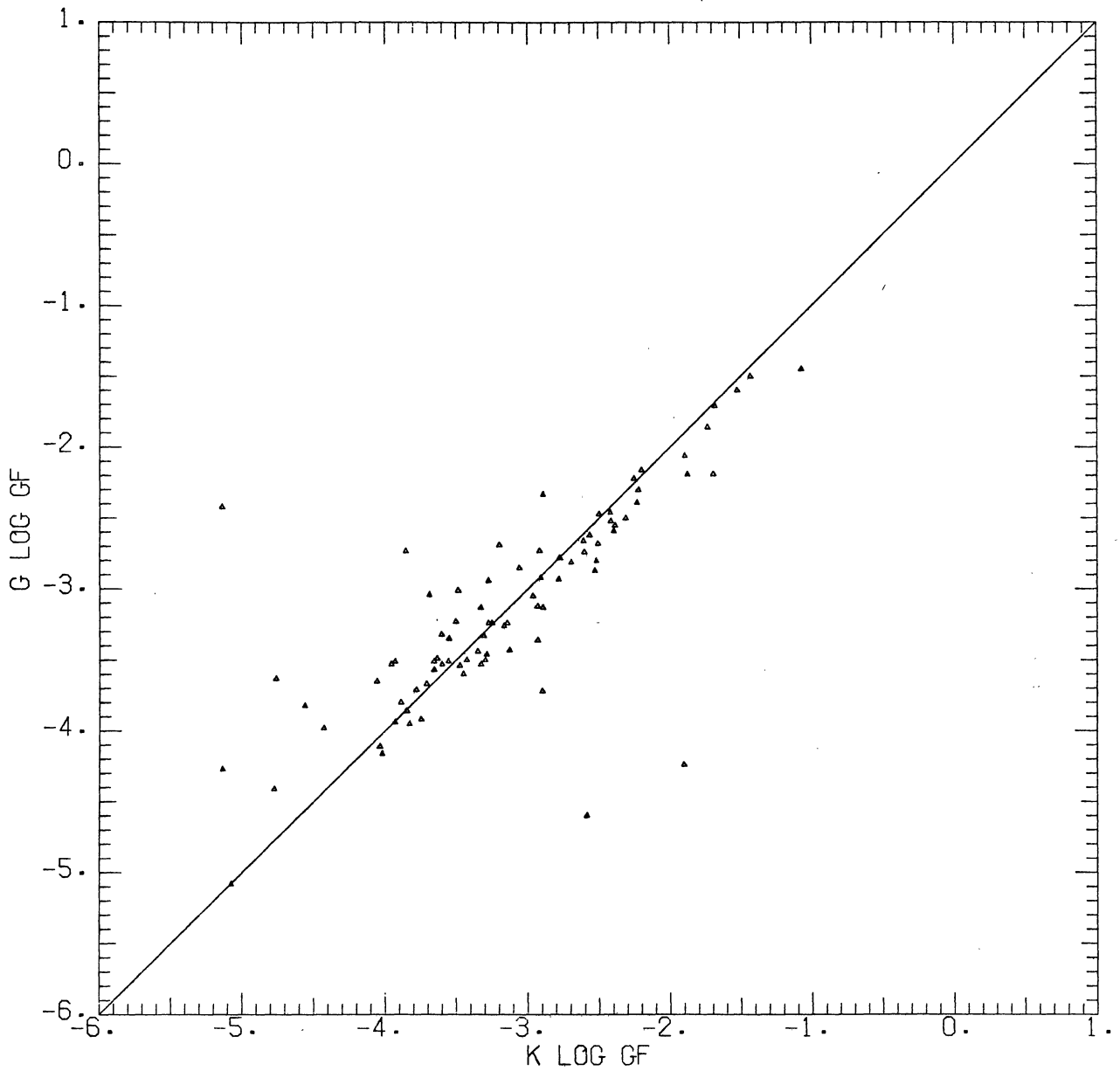
MOSM: Morton and Smith (1973). A compilation of gf values is given for lines that are present in the interstellar medium. The AS measurements are divided up to show all the lines of the multiplets.



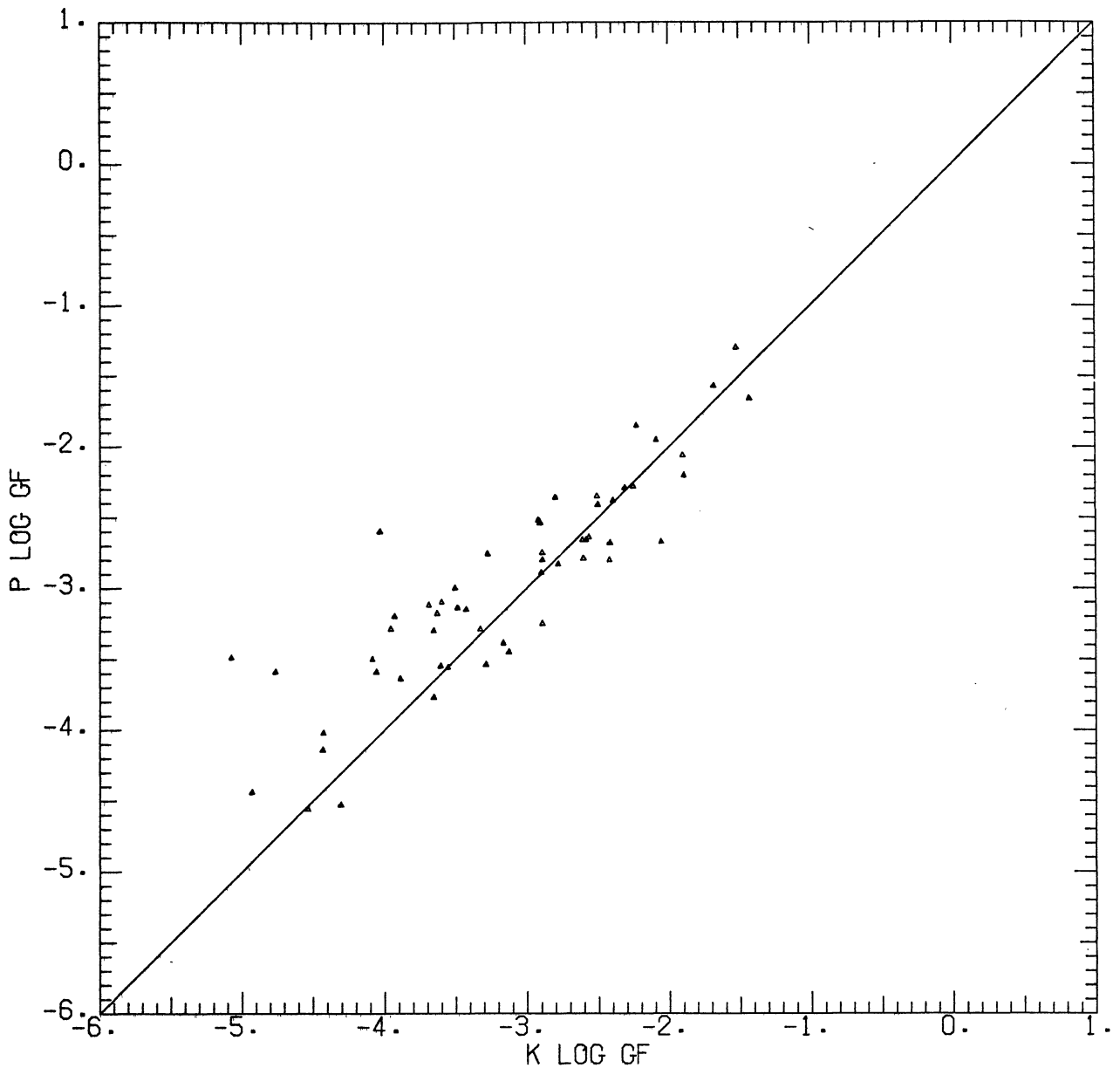
DMPY: deBoer, Morton, Pottasch, and York (1974). $\log gf$ values derived from interstellar absorption lines by fixing the Fe II abundance to that derived from MOSM $\log gf$ values are given. These data should be considered extremely tentative but they are the only data in the vacuum region.



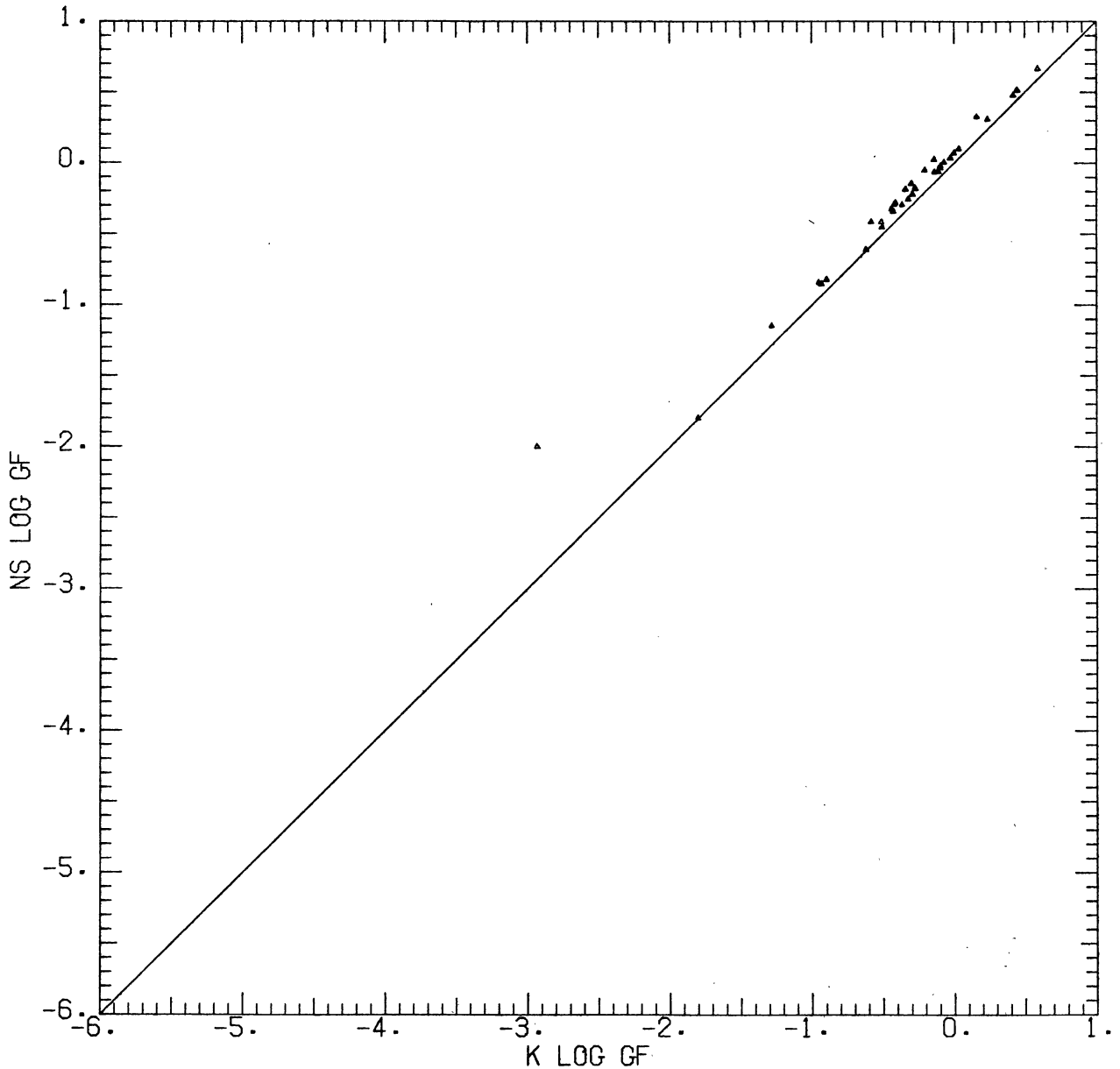
BSS: Blackwell, Shallis, and Simons (1980). These gf values were derived from weak lines in the solar spectrum by fixing the Fe abundance from well known Fe I lines. They should be considered tentative because of uncertainties in the solar model atmosphere and because of the possibility of blending, but they are the best data available for weak lines. The data are compared to K and KP in Table 11 to demonstrate the improvement in the treatment of weak lines in this calculation. The discrepant line is 730.1560, which was too weak to have been included in Table 7. It was extracted from a listing of the complete transition array for inclusion in Tables 9 and 11. (The listing is available from the author.) This line has the same upper level 45079.879, 2.5 as the bad line discussed in the section on MS and is another case of the same bad eigenvector.



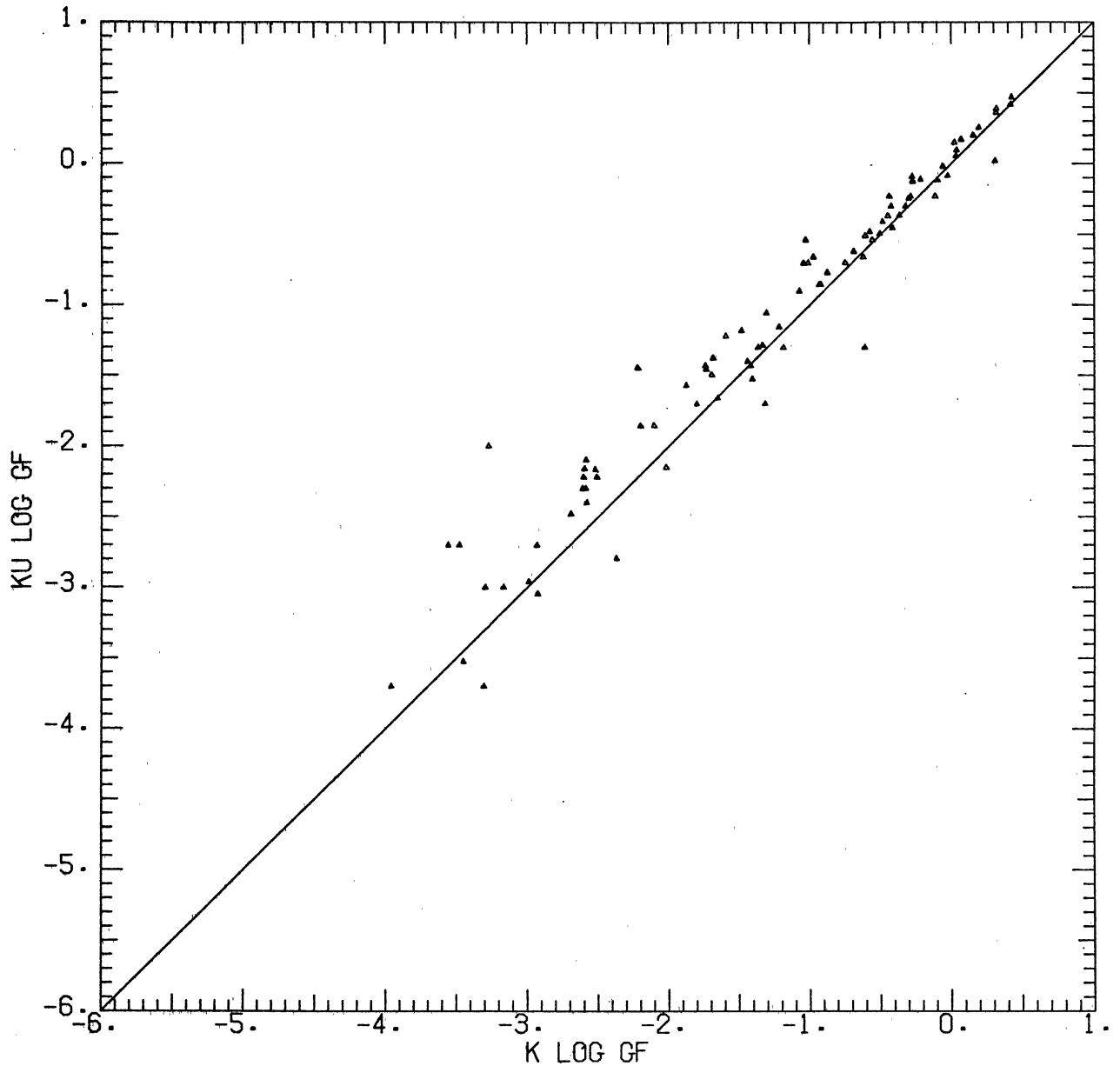
G: Groth (1961). gf values from lines in the spectrum of α Cygni. These values cannot be relied upon because of the possibility of systematic errors and blending. However, any K lines that are significantly discrepant are also suspect.



P: Phillips (1979) compiled gf values for Fe II and filled gaps in his table with gf values derived from solar equivalent widths. These values cannot be relied upon without further investigation because of the possibility of systematic errors and blending. For example, the line 393.8290 is actually badly blended so the derived gf value is meaningless. However, any K lines that are significantly discrepant are also suspect.



NS: Nussbaumer and Storey (1980). These close-coupling calculations used scaled Thomas-Fermi wavefunctions to achieve minimum energies for the low terms. The K Thomas-Fermi-Dirac wavefunctions were scaled to give the observed average energy for each configuration. This difference in approach apparently produces a shift of 0.1 in log gf between the two calculations so that NS is even further from the lifetime measurements and is close to HU. The bad line is 236.6867, which is also bad in AS. AS and NS do not agree. None of the values for the line should be trusted.



KU: Kuzmickyte and Uspalis (1973). These intermediate coupling calculations use self-consistent-field radial wavefunctions. KU computed using both length and velocity operators and recommend the velocity results tabulated here. The $d^6 4s - d^6 4p$ transitions are generally similar to K while the $d^7 - d^6 4p$ are quite disparate.

These calculations are as accurate as, or better than, the available published measurements and calculations. Some of the comparisons indicate significant scatter, but it is not clear whether the scatter arises from K or the other work or both. The calculations for some transitions can be grossly in error owing to accidental cancellations or bad eigenvectors. None of the above comparisons for measurements that have not been normalized demonstrates any systematic error in K. Several of the measurements were normalized to lifetime measurements, so the discussion above about lifetimes applies to them. If the lifetimes are correct, the K gf values are too large by 0.1 in log gf.

Errors in this type of calculation are unavoidable. LS forbidden lines can arise only through mixing or configuration interaction, which makes them very sensitive to the eigenvectors and leads to large errors. A number of reasons for errors are discussed.

1. A good laboratory analysis is required. There are many levels missing in the known configurations, and many important configurations as yet undetermined interact with the known configurations. There are levels for which the energy is known but not the classification, so they cannot be used in the least-squares fit. There are typographical errors and there can be "observed" levels reported that do not really exist.

2. Matching the observed levels to eigenvalues is a subjective process that must be done by hand, especially when strong mixing is present and when there are missing levels.

3. More Slater parameters can be required than it is possible to determine by least-squares fitting. One must resort to guesses, extrapolations, interpolations, or purely theoretical calculations that usually have systematic errors.

4. The Hamiltonian expansion can be incomplete and leave out some important configuration interaction, which can be investigated with purely theoretical calculations. Fortunately, the least-squares fit absorbs some of the error from the missing physics.

5. In such a large volume of data mistakes are inevitable.

The principle means of reducing the scatter and improving the semiempirical gf values is to improve the laboratory spectrum analysis.

We are investigating errors in calculated gf values by comparing to laboratory gf measurements and especially by synthesizing solar and stellar spectra and looking for discrepancies. We plan to try to use measured gf values to determine configuration interaction parameters for transitions that are extremely sensitive to configuration interaction. We plan to compute Hartree-Fock Slater parameters to use as starting guesses or when least-squares parameters cannot be determined. The whole gf calculation will be repeated whenever any of the data are significantly improved. We are maintaining a list of gf values for all Fe II lines that combines these calculations with any other calculations or measurements that are clearly more reliable.

We have not as yet computed forbidden transitions for Fe II so Johansson's (1977) data are listed in the Appendix in the same format as Table 7. Johansson used his new energy level values to redetermine the wavelengths for forbidden transitions that had been computed by Garstang (1962). The gf value listed is the sum of the magnetic dipole and electric quadrupole transition probabilities.

As funding and computer time permit, we plan to repeat all the KP calculations using updated spectral analyses and to extend the calculations to higher stages of ionization and to heavier elements.

We thank Martha S. Bruno and Jan Matlis for their assistance in this project.

Table 1. Slater parameters for even levels.

These are the least-squares parameters used to compute the eigenvalues shown in Table 2. The columns list the parameter number, the configuration to which the parameter applies – or, for a configuration-interaction parameter, the configurations between which it applies – the parameter name, the parameter value in cm^{-1} , the variance of the parameter value, and, finally, qualifications on the parameters.

The parameters are

EAV: E_{av} , average energy for a configuration;

F and G: Slater integrals F^n and G^n ;

ALPHA and BETA: α and β effective configuration-interaction parameters;

ZETA: ζ spin-orbit interaction parameter;

D and E: direct and exchange Slater integrals R^n for configuration interaction. For exchange integrals, the final two orbitals of the four indicated should be interchanged.

Qualifications on a parameter arise if it has been kept fixed in the least-squares fit or was defined as a linear combination of other parameters. In a linear combination, the other parameters are indicated by their numbers.

A least-squares fit was not performed on all these configurations simultaneously. Because they were combined together only for a final output run, some of the variances and qualifications are not the actual least-squares values. $(d+s)^7$ was rerun from KP with the new energy levels. Those parameters were used as starting guesses for $d^6 5s$. Parameters from Johansson, Litzen, Sinzelle, and Wyart (1980) were used as the starting values for $d^6 4d$. Because there are not enough terms known for a proper fit, the parameters for the remaining configurations are mainly guesses based on the parameters of the other even and the odd configurations and so the predicted energies are very uncertain. In the future we expect to compute Hartree-Fock Slater parameters as a guide in estimating those that cannot be determined by least squares and to predict configurations that have not been observed.

SLATER PARAMETERS 26.01 EVEN CONFIGURATIONS

SLATER PARAMETERS	26.01	EVEN CONFIGURATIONS	VARIANCE	PARAMETER	VARIANCE
1 D7	EAV	18590.8	157.5	BETA	99.8
2	F2(3D3D)	62193.5	461.9	ZETA 3D	361.6
3	F4(3D3D)	40198.0	491.4	ZETA 5D	0.0
4	ALPHA	67.8	3.3	F2(3D5D)	2549.8
5	BETA	351.1	69.5	F4(3D5D)	849.1
6	ZETA 3D	376.2	61.1	G0(3D5D)	701.5
7 D6 4S	EAV	31571.4	34.3	G2(3D5D)	841.8
8	F2(3D3D)	69476.6	157.0	G4(3D5D)	771.7
9	F4(3D3D)	43451.3	307.3	EAV	163203.8
10	ALPHA	67.8	0.0	F2(3D3D)	75699.1
11	BETA	351.1	0.0	F4(3D3D)	47643.5
12	ZETA 3D	433.1	46.1	ALPHA	66.8
13	G2(3D4S)	7895.4	107.9	BETA	557.2
14 D5 4S2	EAV	74303.2	93.6	ZETA 3D	441.2
15	F2(3D3D)	75930.2	523.6	G2(3D4S)	15351.6
16	F4(3D3D)	48407.5	606.3	G2(3D5S)	1633.4
17	ALPHA	67.8	0.0	G0(4S5S)	1000.0
18	BETA	351.1	0.0	D5 4S4D EAV	170331.6
19	ZETA 3D	453.5	135.4	F2(3D3D)	75643.5
20 D6 5S	EAV	107654.5	17.5	F4(3D3D)	47643.5
21	F2(3D3D)	73032.9	120.1	ALPHA	66.8
22	F4(3D3D)	43275.8	118.6	BETA	557.2
23	ALPHA	66.8	0.0	ZETA 3D	441.2
24	BETA	341.3	32.4	ZETA 4D	16.0
25	ZETA 3D	427.3	8.3	F2(3D4D)	4460.4
26	G2(3D5S)	1519.2	13.5	F4(3D4D)	1591.4
27 D6 6S	EAV	131122.0	17.5	G2(3D4S)	15351.6
28	F2(3D3D)	73032.9	120.1	G0(3D4D)	1274.3
29	F4(3D3D)	43275.8	118.6	G2(3D4D)	1633.4
30	ALPHA	66.8	0.0	G4(3D4D)	1389.6
31	BETA	341.3	32.4	G2(4S4D)	10000.0
32	ZETA 3D	414.4	8.3	EAV	166910.1
33	G2(3D6S)	605.4	13.5	D5 4P2	36.0
34 D6 4D	EAV	114752.2	381.2	F2(3D3D)	75699.1
35	F2(3D3D)	80129.7	2275.1	F4(3D3D)	47643.5
36	F4(3D3D)	42208.8	431.8	ALPHA	66.8
37	ALPHA	66.8	0.0	BETA	557.2
38	BETA	99.6	117.9	F2(4P4P)	20000.0
39	ZETA 3D	417.0	21.7	ALPHA(4P)	0.0
40	ZETA 4D	2.8	19.0	ZETA 3D	441.2
41	F2(3D4D)	4464.0	110.7	ZETA 4P	599.0
42	F4(3D4D)	1591.4	141.4	F2(3D4P)	15341.6
43	G0(3D4D)	1274.3	26.0	G1(3D4P)	6099.3
44	G2(3D4D)	1633.4	101.7	G3(3D4P)	5570.5
45	G4(3D4D)	1389.6	117.9	2D(3D3D3D4S)	-2655.6
46 D6 5D	EAV	134936.1	36.0	2D(3D3D3D4S)	7587.5
47	F2(3D3D)	80129.7	0.0	2D(3D3D3D4S)	-1000.0
48	F4(3D3D)	42208.8	0.0	STANDARD DEVIATION	175.8
49	ALPHA	66.8	0.0		

Table 2. Energies and eigenvector components for even levels.

The energy levels are presented separately for each value of the angular momentum J . In the heading for each J , the configurations are listed and numbered. The columns list the eigenvalue number that will be used later below to identify the state, the observed energy in cm^{-1} , the eigenvalue, the eigenvalue minus the observed energy, the published assignment of the observed level, and, finally, the largest eigenvector components. The levels are listed in order of increasing eigenvalue. The observed levels and their labels (assignments) have been taken from Johansson (1978) and have been assigned to the eigenvalues in the least-squares process. A minus sign preceding a level indicates that it was not used in the least-squares fit. In computing gf values and wavelengths, the observed energy is used when available; otherwise, the computed eigenvalue is used. The eigenvector components listed are the four largest or as many as there are larger than 0.03. The LS basis states are listed in the following notation:

- 2(3P)4P 6 , from the first line of the table, means
- 2 configuration number = $d^6 4s$;
 - (3P) LS term of the ancestor configuration = $d^6 3P$;
 - 4P LS term = $4P$;
 - 6 arbitrary LS basis state number to distinguish identical terms with different seniority.

The level 2430.097, 3.5 is misprinted in Johansson as 2439.097.

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J 0.5 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2

OBSERVED ENERGY	EIGENVALUE	E-0	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS																
				1	2	3	4	5	6	7	8	9	10							
1 977.053	1017.2	40.2	D6S (5D)6D	0.999	2(5D)6D	3	0.034	2(3P)4P	6											
2 8846.768	8884.0	37.2	D6S (5D)4D	0.999	2(5D)4D	4	0.038	2(3P)2P	8	-0.033	2(3P)2P	9								
3 13904.824	13997.7	92.9	D7 (5D)4P	0.989	1(4P)4P	1	0.091	1(2P)2P	2	-0.090	2(3P)4P	7	0.049	3(4P)4P	13					
4 18886.780	19139.4	252.7	D7 (5D)2P	-0.991	1(2P)2P	2	0.090	1(4P)4P	1	0.071	2(3P)2P	9	-0.068	2(3P)2P	8					
5 22409.852	22731.0	321.1	D6S (3P)4P	0.775	2(3P)4P	7	-0.615	2(3P)4P	6	0.100	1(4P)4P	1	-0.062	2(1S)2S	11					
6 26932.748	27279.1	346.4	D6S (3P)2P	0.774	2(3P)2P	9	-0.611	2(3P)2P	8	0.098	1(2P)2P	2	0.075	2(1S)2S	11					
7 31368.450	31017.6	-350.8	D6S (3D)4D	0.997	2(3D)4D	5	0.054	2(3P)2P	8	-0.052	2(3P)2P	9								
8 37227.326	36109.7	-1117.7	D6S (1S)2S	-0.876	2(1S)2S	11	0.468	2(1S)2S	10	-0.081	2(3P)4P	7	0.076	2(3P)2P	9					
9 49100.976	49333.6	232.6	D6S (3P)4P	0.784	2(3P)4P	6	0.618	2(3P)4P	7	-0.038	2(1S)2S	11	-0.034	2(3P)2P	8					
10 54063.459	54214.6	151.2	D6S (3P)2P	0.784	2(3P)2P	8	0.619	2(3P)2P	9	0.031	2(3P)4P	6								
11 57578.484	57618.0	39.5	D5S2(7S)4P	-0.991	3(4P)4P	13	-0.123	3(4D)4D	12	0.049	1(4P)4P	1								
12 60384.370	60440.8	56.4	D5S2(7S)4D	0.992	3(4D)4D	12	-0.123	3(4P)4P	13											
13 78843.992	78856.1	12.1	5S (5D)6D	0.998	4(5D)6D	16	0.036	4(3P)4P	19	0.032	4(5D)4D	17								
14 80346.016	80357.3	11.3	5S (5D)4D	0.998	4(5D)4D	17	0.036	4(3P)2P	21	-0.032	4(5D)6D	16								
15 83558.540	83591.0	32.4	4D (5D)6F	0.985	6(5D)6F	34	-0.155	6(5D)6D	35	-0.062	6(5D)4D	36								
16 84131.563	84119.5	-12.0	4D (5D)6D	0.987	6(5D)6D	35	0.156	6(5D)6F	34											
17 85172.809	85157.5	-15.3	4D (5D)4D	0.996	6(5D)4D	36	0.058	6(5D)6F	34	-0.045	6(5D)4P	43								
18 -	86875.0	-	-	-0.999	3(2S)2S	15														
19 88189.030	88160.7	-28.3	4D (5D)4P	-0.989	6(5D)4P	43	-0.115	6(3F)4P	45	-0.067	6(3D)4P	46	-0.045	6(5D)4D	36					
20 -	97245.5	-	-	-0.882	2(1S)2S	11	-0.471	2(1S)2S	11											
21 -	99196.6	-	-	0.738	4(3P)4P	20	-0.601	4(3P)4P	19	0.230	4(3P)2P	22	-0.188	4(3P)2P	21					
22 -	100082.1	-	-	-0.738	4(3P)2P	22	0.601	4(3P)2P	21	0.227	4(3P)4P	20	-0.184	4(3P)4P	19					
23 102666.694	102671.3	4.6	6S (5D)6D	0.996	5(5D)6D	25	0.079	5(5D)4D	26	0.035	5(3P)4P	28								
24 -	102696.5	-	-	0.731	6(3P)4P	48	-0.606	6(3P)4P	47	-0.223	6(3P)4D	42	0.198	6(3P)4D	41					
25 103265.694	103264.5	-1.2	6S (5D)4D	0.996	5(5D)4D	26	-0.078	5(5D)6D	25	0.034	5(3P)2P	30								
26 -	103563.6	-	-	-0.616	6(3P)4D	42	0.547	6(3P)4D	41	0.355	6(3P)2P	53	-0.302	6(3P)2P	52					
27 -	104438.5	-	-	0.960	7(5D)6F	60	-0.257	7(5D)6D	61	-0.107	7(5D)4D	62								
28 -	104548.9	-	-	0.582	6(3P)2P	53	-0.490	6(3P)2P	52	0.357	6(3F)2P	50	0.356	6(3P)4D	42					
29 104757.110	104724.6	-32.5	5D (5D)6D	0.964	7(5D)6D	61	0.259	7(5D)6F	60	-0.038	7(5D)4P	69								
30 105230.290	105262.1	31.8	5D (5D)4D	0.991	7(5D)4D	62	0.101	7(5D)6F	60	-0.066	7(5D)4P	69	-0.039	7(5D)6D	61					
31 -	105516.4	-	-	-0.873	6(3F)4D	39	0.480	6(3F)4D	38	0.049	6(3D)4D	40	-0.033	6(3F)2P	50					
32 -	106576.1	-	-	-0.849	6(3F)4P	45	0.477	6(3F)4P	44	0.161	6(3D)4P	46	0.095	6(5D)4P	43					
33 -	107027.7	-	-	-0.994	7(5D)4P	69	-0.067	7(5D)4D	62	-0.064	7(3F)4P	71	-0.038	7(5D)6D	61					
34 -	108222.9	-	-	0.751	6(3F)2P	50	-0.397	6(3F)2P	49	-0.289	6(3P)2P	53	0.282	6(3P)2P	52					
35 -	108705.9	-	-	-0.999	4(3D)4D	18														
36 -	109681.5	-	-	-0.968	6(3G)4D	37	-0.184	6(3F)2P	50	0.088	6(3F)2P	49	-0.084	6(3D)4D	40					
37 -	111719.0	-	-	-0.870	4(1S)2S	24	0.481	4(1S)2S	23	-0.081	4(3P)4P	20	0.060	4(3P)2P	22					
38 -	113932.9	-	-	0.991	9(6S)6D106		0.101	9(6S)6D105		-0.061	9(4G)6D107		-0.036	9(4P)6D110						
39 -	116294.8	-	-	-0.974	6(3D)4D	40	-0.170	6(3D)2P	51	0.088	6(3G)4D	37	0.074	6(1D)2P	55					
40 -	117053.3	-	-	0.921	6(3D)2P	51	-0.198	6(1D)2P	55	0.178	6(3D)2S	57	-0.177	6(3D)4D	40					
41 -	117122.3	-	-	0.975	6(3D)2S	57	-0.170	6(3D)2P	51	0.077	6(1D)2P	55	0.061	6(1D)2S	58					
42 -	117550.9	-	-	0.999	3(2P)2P	14														
43 -	117734.9	-	-	0.967	6(3D)4P	46	-0.147	6(3F)4P	44	0.101	6(3D)2P	51	0.093	6(3F)4P	45					
44 -	117828.2	-	-	-0.987	10(6S6D)166		0.118	10(6S4P)184		0.093	10(4D6D)168		0.046	10(4P6D)169						
45 -	120960.4	-	-	0.851	6(1D)2S	58	-0.498	6(1D)2S	59	0.115	6(3D)4P	46	-0.077	6(3D)2S	57					
46 -	121830.0	-	-	-0.977	10(6S4P)184		0.128	10(4D4P)187		-0.121	10(6S6D)166		-0.062	10(4D4P)186						
47 -	122726.8	-	-	0.638	5(3P)4P	29	-0.519	5(3P)4P	28	0.438	5(3P)2P	31	-0.357	5(3P)2P	30					
48 -	123250.9	-	-	-0.637	5(3P)2P	31	0.519	5(3P)2P	30	0.435	5(3P)4P	29	-0.354	5(3P)4P	28					
49 -	123318.0	-	-	-0.726	7(3P)4P	74	0.612	7(3P)4P	73	0.230	7(3P)4D	68	-0.201	7(3P)4D	67					
50 -	123450.6	-	-	-0.808	6(1D)2P	55	0.461	6(1D)2P	56	-0.213	6(3D)2P	51	-0.193	6(1P)2P	54					
51 -	123940.8	-	-	-0.553	7(3P)4D	68	0.484	7(3P)4D	67	0.461	7(3P)2P	79	-0.395	7(3P)2P	78					
52 -	124737.1	-	-	-0.546	7(3P)2P	79	0.465	7(3P)2P	78	-0.453	7(3P)4D	68	0.395	7(3P)4D	67					
53 -	125973.3	-	-	-0.873	7(3F)4D	65	0.482	7(3F)4D	64	0.036	7(3F)4P	71	-0.033	7(3G)4D	63					
54 -	126579.4	-	-	0.862	7(3F)4P	71	-0.482	7(3F)4P	70	-0.085	7(3D)4P	72	-0.061	7(3G)4D	63					
55 -	127535.5	-	-	0.815	7(3F)2P	76	-0.442	7(3F)2P	75	-0.232	7(3P)2P	79	0.219	7(3P)2P	78					
56 -	128040.6	-	-	0.763	4(3P)4P	19	0.619	4(3P)4P	20	-0.141	4(3P)2P	21	-0.112	4(3P)2P	22					
57 -	129165.1	-	-	-0.762	4(3P)2P	21	-0.621	4(3P)2P	22	-0.139	4(3P)4P	19	-0.115	4(3P)4P	20					
58 -	129774.2	-	-	-0.993	9(6S)6D105		0.102	9(6S)6D106		-0.036	9(6S)6D111									
59 -	129941.5	-	-	0.967	6(1F)2P	54	-0.133	6(1D)2P	55	0.121	6(3P)2P	52	-0.116	6(3P)2P	49					
60 -	129990.0	-	-	-0.990	7(3G)4D	63	-0.101	7(3F)2P	76	-0.051	7(3F)4P	71	-0.049	7(3D)4D	66					
61 -	130223.1	-	-	0.995	9(6S)4D111		-0.062	9(4G)4D112		-0.040	9(4P)4D118		-0.036	9(6S)6D105						
62 -	132358.1	-	-	-0.999	5(3D)4D	27														
63 -	135179.6	-	-	-0.870	5(1S)2S															

96	-	151682.0	-	-	-	0.735	5(3P)4P 28	0.596	5(3P)4P 29	-0.251	5(3P)2P 30	-0.202	5(3P)2P 31
97	-	151978.6	-	-	-	0.804	10(4P4D)177	-0.331	10(4P4D)176	0.305	10(4P4D)174	-0.238	10(4P2P)197
98	-	152044.7	-	-	-	-0.893	9(4D)6D109	-0.293	9(4G)6D107	-0.253	9(4F)6D110	0.186	9(4P)4P134
99	-	152313.4	-	-	-	-0.733	5(3P)2P 30	-0.598	5(3P)2P 31	-0.250	5(3P)4P 28	-0.205	5(3P)4P 29
100	-	152686.7	-	-	-	-0.536	10(4D4P)186	0.522	10(4P4P)189	0.457	10(4D4P)187	0.222	10(2D4P)193
101	-	153189.2	-	-	-	0.560	10(4D4D)173	0.552	10(4P2P)197	-0.383	10(4D2P)196	-0.242	10(4P4D)176
102	-	153529.6	-	-	-	-0.683	10(4D4D)173	0.409	10(4P2P)197	-0.382	10(4D2P)196	0.185	10(4P4P)189
103	-	153818.4	-	-	-	0.985	8(4P)4P 93	0.107	8(4P)2P 96	0.104	8(4D)4D 88	-0.059	8(4P)4P 94
104	-	154233.1	-	-	-	-0.981	8(4P)2P 96	0.123	8(4P)4P 93	-0.122	8(4D)4D 88	0.059	8(2D)4D 92
105	-	154269.3	-	-	-	0.546	10(4D4P)187	-0.489	10(4P4P)190	0.442	10(4D4P)186	-0.284	10(4P4P)189
106	-	154405.1	-	-	-	0.945	9(4D)4D117	-0.184	9(4G)4D113	-0.151	9(4P)4D119	0.139	9(4D)4D116
107	-	154874.1	-	-	-	0.963	9(4D)4P132	0.138	9(4D)4P131	0.124	9(2D)4P139	-0.096	9(2F)4P135
108	-	155372.7	-	-	-	0.570	10(4P4P)189	0.501	10(4D4P)186	0.473	10(4P4P)188	0.233	10(4D4D)174
109	-	155615.8	-	-	-	-0.801	10(4D4D)174	0.259	10(4P4D)177	-0.221	10(2D4D)182	0.197	10(4P4P)189
110	-	156256.0	-	-	-	0.933	8(4F)6F 86	0.278	8(4D)4D 88	-0.171	8(2D)4D 92	-0.106	8(2D)4D 90
111	-	157119.1	-	-	-	-0.943	8(4D)4D 88	0.267	8(4F)6F 86	-0.117	8(2D)4D 92	0.112	8(4P)2P 96
112	-	157851.4	-	-	-	-0.611	7(3F)4D 64	-0.515	7(3F)2P 75	-0.335	7(3F)4D 65	-0.273	7(3F)2P 76
113	-	157936.0	-	-	-	-0.739	10(4D2P)196	-0.613	10(4P2P)197	0.163	10(2F2P)198	0.092	10(2D2P)205
114	-	157950.3	-	-	-	-0.655	7(3F)2P 75	0.519	7(3F)4D 64	-0.355	7(3F)2P 76	0.288	7(3F)4D 65
115	-	158445.0	-	-	-	0.756	7(3F)4P 70	0.417	7(3F)4P 71	-0.365	7(3P)4P 73	-0.309	7(3P)4P 74
116	-	158711.2	-	-	-	0.844	8(2D)4D 92	0.470	8(2D)4D 90	0.235	8(4F)6F 86	0.074	8(4P)2P 96
117	-	159077.8	-	-	-	-0.582	7(3P)4D 67	-0.510	7(3P)4D 68	-0.328	7(3P)2P 78	0.316	7(3P)4D 64
118	-	159345.4	-	-	-	0.582	10(2D4D)182	0.567	10(2F4D)178	0.355	10(2D4D)180	-0.240	10(4P4D)176
119	-	159541.6	-	-	-	-0.902	9(4G)4D112	0.309	9(4P)4D118	0.225	9(4D)4D116	0.150	9(4G)4D113
120	-	159633.9	-	-	-	0.632	7(3P)2P 78	0.551	7(3P)2P 79	-0.345	7(3P)4D 67	-0.303	7(3P)4D 68
121	-	160062.9	-	-	-	-0.666	7(3P)4P 73	-0.563	7(3P)4P 74	-0.392	7(3F)4P 70	-0.236	7(3F)4P 71
122	-	160622.4	-	-	-	-0.900	10(4F6F)164	-0.237	10(2F4D)178	-0.215	10(4D4D)175	-0.160	10(4G6F)163
123	-	160893.7	-	-	-	0.938	9(4P)4P133	0.181	9(4P)2P143	-0.154	9(4P)4P134	-0.137	9(4P)4D118
124	-	161108.4	-	-	-	0.657	10(4D4D)175	-0.269	10(4P6F)164	-0.261	10(4F4D)172	0.254	10(4P4P)190
125	-	161272.2	-	-	-	0.864	10(4P6D)167	-0.253	10(4D4D)175	0.234	10(4D6D)168	-0.189	10(2D4P)193
126	-	161286.9	-	-	-	0.881	9(4P)2P143	-0.257	9(4P)4D118	-0.242	9(4P)4P133	-0.166	9(4D)2S156
127	-	161554.7	-	-	-	-0.694	10(4P4P)190	-0.470	10(4D4P)187	0.288	10(4F6D)167	0.215	10(4D4D)175
128	-	161647.9	-	-	-	0.828	9(4P)4D118	-0.307	9(4D)4D116	0.292	9(4P)2P143	0.230	9(4G)4D112
129	-	162359.4	-	-	-	-0.685	10(2D2P)204	-0.389	10(2D2P)200	-0.293	10(2F2P)198	-0.232	10(2D4D)182
130	-	162489.1	-	-	-	-0.974	9(4F)6F102	-0.149	9(4P)4D118	0.114	9(2D)4D126	0.074	9(2D)4D124
131	-	163195.1	-	-	-	-0.968	9(4D)2S156	-0.198	9(4P)2P143	-0.088	9(4P)4P133	-0.079	9(4D)4P131
132	-	163225.9	-	-	-	-0.747	10(2D4P)193	-0.410	10(2D4P)191	-0.378	10(4P4P)190	-0.200	10(4F6D)167
133	-	164036.6	-	-	-	-0.928	9(4D)4P131	-0.282	9(4F)6D108	0.139	9(4D)4P132	0.096	9(2F)4P135
134	-	164517.9	-	-	-	0.781	9(4F)6D108	-0.393	9(2D)4P139	-0.295	9(4D)4P131	-0.226	9(2D)4P137
135	-	164610.9	-	-	-	-0.681	10(2F4D)178	0.407	10(2D4D)182	-0.267	10(2D2P)204	0.205	10(2D4D)180
136	-	164675.1	-	-	-	-0.626	9(4D)2P142	-0.486	9(4F)4D115	0.453	9(2D)4D126	0.254	9(2D)4D124
137	-	164918.1	-	-	-	-0.681	9(4D)2P142	-0.513	9(2D)4D126	-0.287	9(2D)4D124	-0.221	9(2F)4D122
138	-	165173.6	-	-	-	-0.527	9(4F)6D108	-0.520	9(2D)4P139	-0.431	9(2F)4P135	-0.283	9(2D)4P137
139	-	165698.7	-	-	-	-0.620	9(4F)4D115	-0.436	9(4D)4D116	0.373	9(2F)4D122	-0.370	9(2D)4D126
140	-	165876.8	-	-	-	-0.744	9(2F)4D122	-0.355	9(4F)4D115	0.339	9(2D)2P153	0.204	9(2D)2P152
141	-	166259.9	-	-	-	-0.774	9(4D)4D116	0.367	9(4F)4D115	-0.267	9(4G)4D112	-0.243	9(4P)4D118
142	-	167329.6	-	-	-	-0.566	9(4F)4P130	0.536	9(2D)2P153	0.303	9(2D)2P149	0.288	9(2F)4D122
143	-	167507.6	-	-	-	-0.654	9(4F)4P130	-0.357	9(2D)2P153	0.288	9(2F)2P145	-0.276	9(2F)4D122
144	-	167661.0	-	-	-	-0.649	10(2D2S)213	0.424	10(2D2P)205	-0.371	10(2D2S)211	0.276	10(2F2P)198
145	-	167856.6	-	-	-	0.566	10(2D2P)205	0.447	10(2D2S)213	0.366	10(4F4D)171	0.306	10(2D2P)201
146	-	168028.0	-	-	-	-0.778	10(4F4D)171	0.355	10(2D2P)205	-0.261	10(4D4D)175	-0.202	10(2F4D)179
147	-	168210.9	-	-	-	0.869	6(1D)2P 56	0.495	6(1D)2P 55	0.495	6(1D)2P 55	-0.283	9(2F)2P144
148	-	168253.2	-	-	-	-0.831	9(2F)2P145	-0.342	9(2D)2P153	-0.354	9(4F)4P130	0.184	9(2D)4P137
149	-	168862.0	-	-	-	0.863	6(1D)2S 59	0.506	6(1D)2S 58	0.310	10(2D2P)204	-0.201	10(2D2S)213
150	-	169628.4	-	-	-	-0.778	9(2F)4P135	0.358	9(2D)4P139	-0.354	9(4F)4P130	0.184	9(2D)4P137
151	-	169900.3	-	-	-	-0.752	10(2F2P)198	0.369	10(4F4P)185	0.310	10(2D2P)204	-0.201	10(2D2S)213
152	-	170368.2	-	-	-	-0.871	10(4F4P)185	-0.299	10(2F2P)198	-0.223	10(2D2S)213	0.176	10(4D4P)187
153	-	170960.2	-	-	-	-0.913	10(2F4D)179	0.214	10(2D4D)181	0.179	10(4F4D)171	-0.165	10(2F4D)178
154	-	171482.0	-	-	-	-0.808	9(2G)4D121	-0.398	9(2D)2S162	0.243	9(2D)2S161	-0.217	9(2D)2S158
155	-	171593.9	-	-	-	-0.592	9(2D)2S162	0.543	9(2G)4D121	0.370	9(2D)2S161	-0.323	9(2D)2S158
156	-	172681.1	-	-	-	-0.875	10(4F4D)172	-0.380	10(4D4D)175	0.148	10(4D4D)174	0.137	10(4G4D)170
157	-	173198.2	-	-	-	0.698	9(2D)2P152	0.466	9(2F)2P144	0.388	9(2D)2P148	-0.220	9(2D)2P153
158	-	173910.4	-	-	-	0.719	9(2D)2S161	0.456	9(2D)2S162	0.393	9(2D)2S157	0.233	9(2D)2S158
159	-	174920.1	-	-	-	-0.911	10(2S4P)195	-0.326	10(2D4P)192	0.127	10(4D4P)187	0.105	10(4D4P)186
160	-	175720.2	-	-	-	0.992	8(2S)2S100	0.119	8(2S)2S 99	-0.199	8(2S)2S 100	0.088	9(2G)4D121
161	-	176016.0	-	-	-	-0.933	9(2F)4D123	-0.198	9(2S)4D128	0.136	9(2G)4D121	0.107	9(2F)2P144
162	-	176255.4	-	-	-	0.949	9(2F)4P136	-0.186	9(4F)4P129	0.099	9(4D)4P132	-0.095	9(2D)4P139
163	-	176337.0	-	-	-	0.512	9(4F)2P141	-0.478	9(2F)2P144	-0.443	9(2F)2P147	0.272	9(2D)2P152
164	-	176568.4	-	-	-	0.875	4(1S)2S 23	0.483	4(1S)2S 24	-0.142	9(4F)4P130	-0.111	9(2F)2P147
165	-	176927.5	-	-	-	0.941	9(4F)4P129	0.206	9(2F)4P136	0.367	9(2F)2P146	0.168	9(2D)2P152
166	-	177681.0	-	-	-	0.771	9(2F)2P147	-0.405	9(2F)2P144	0.321	10(2D2P)202	0.164	10(2F2P)198
167	-	178182.1	-	-	-	-0.735	10(2F2P)199	0.484	10(2S2P)209	0.367	10(2D2P)202	-0.209	9(2F)2P147
168	-	178478.4	-	-	-	-0.797	9(4F)2P141	-0.377	9(2F)2P144	-0.251	9(4F)4D114	-0.209	9(2F)2P147
169	-	178858.7	-	-	-	0.927	9(4F)4D114	-0.186	9(4F)2P141	-0.164	9(4F)4D115	-0.158	9(2F)2P144
170	-	179158.4	-	-	-	0.748	10(2S2P)209	0.555	10(2F2P)199	-0.222	10(2F2P)198	0.198	10(2D2P)202
171	-	180387.5	-	-	-	-	8(2D)4D 91	-	-	-	-	-	-
172	-	180591.4	-	-	-	0.971	9(2S)4D128	-0.191	9(2F)4D123	0.088	9(2G)4D121	0.052	9(4D)4D117
173	-	180670.2	-	-	-	0.992	8(2S)2S 99	-0.119	8(2S)2S100	-0.119	8(2S)2S100	0.143	10(2D2S)213
174	-	183046.1	-	-	-	-0.714	10(2S2S)215	0.658	10(2D2S)212	0.143	10(2D2S)213	0.120	10(4P2S)210
175	-	183566.7	-	-	-	0.959	10(2D4D)181	0.197	10(2F4D)179	0.094	10(2D4D)182	-0.076	10(4F4D)171
176	-	184046.1	-	-	-	-0.899	9(2F)2P146	0.370	9(2F)2P147	-0.120	9(4D)2P142	0.086	9(2D)2P152
177	-	184767.8	-	-	-	-0.923	10(2D4P)192	0.341	10(2S4P)195	0.096	10(4F4P)185	-0.073	10(2D4D)181
178	-	187242.7	-	-	-	0.988	9(2D)4D125	-0.082	9(2G)4D120	0.071	9(2S)4D128	0.060	9(2F)4D123
179	-	187974.6	-	-	-	-0.991	9(2D)4P138	-0.084	9(4F)4P130	0.046	9(2P)4P140		

Table with 13 columns: Index, Value, Sign, Index, Value, Sign, Index, Value, Sign, Index, Value, Sign, Index, Value. Contains numerical data for indices 196 to 215.

J 1.5 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2

Main table with columns: OBSERVED ENERGY, EIGENVALUE, E-0, OBSERVED LABEL, PRINCIPAL EIGENVECTOR COMPONENTS. Rows 1-72 show detailed eigenvalue and eigenvector information.

73	-	117817.4	-	-	-0.978	6(3D)4P	71	0.139	6(3F)4P	69	-0.095	6(3F)4P	70	0.079	6(5D)4P	68
74	-	117858.8	-	-	-0.984	10(6S6D)284	-	0.110	10(6S4P)320	-	0.093	10(4D6D)286	-	0.082	10(6S6P)288	-
75	-	119604.3	-	-	-0.695	6(3D)2D	79	0.446	6(1S)2D	88	-0.265	6(1S)2D	87	-0.236	6(1D)2D	85
76	-	121563.5	-	-	-0.657	5(3P)2P	48	0.541	5(3P)2P	47	-0.403	5(3P)4P	43	0.331	5(3P)4P	42
77	-	121667.8	-	-	-0.978	10(6S4P)320	-	0.129	10(4D4P)323	-	-0.109	10(6S6D)284	-	0.062	10(4P4P)325	-
78	-	122255.9	-	-	-0.825	6(1D)2D	85	0.462	6(1D)2D	86	0.224	6(3D)2D	79	-0.126	6(1G)2D	83
79	-	122626.3	-	-	0.660	5(3P)4P	43	-0.538	5(3P)4P	42	-0.404	5(3P)2P	48	0.330	5(3P)2P	47
80	-	123257.6	-	-	0.811	6(1D)2P	95	-0.462	6(1D)2P	96	0.219	6(3D)2P	91	0.188	6(1F)2P	94
81	-	123330.5	-	-	0.616	7(3P)4P121	-	-0.519	7(3P)4P120	-	-0.432	7(3P)4D115	-	0.379	7(3P)4D114	-
82	-	123468.8	-	-	0.999	8(6S)4S161	-	-	-	-	-	-	-	-	-	-
83	-	123575.4	-	-	-0.886	5(3F)4F	39	0.461	5(3F)4F	38	-0.039	5(1D)2D	45	-	-	-
84	-	123930.1	-	-	-0.375	7(3P)4D115	-	-0.349	7(3P)2D129	-	0.328	7(3P)4D114	-	0.322	7(3P)2P141	-
85	-	124635.0	-	-	0.545	7(3H)4F102	-	-0.502	7(3P)4F108	-	0.425	7(3P)4F107	-	-0.302	7(3P)4D115	-
86	-	124721.4	-	-	0.419	7(3P)4D129	-	-0.362	7(3P)4D115	-	-0.360	7(3P)2D128	-	-0.325	7(3P)2P141	-
87	-	125208.4	-	-	-0.874	3(2D)2D	21	0.480	3(2D)2D	23	0.064	3(2P)2P	24	-0.040	1(2D)2D	3
88	-	125232.0	-	-	0.493	7(3H)4F102	-	-0.401	7(3P)2P141	-	0.339	7(3P)2P140	-	-0.325	7(3P)2D129	-
89	-	125472.1	-	-	-0.433	7(3H)4F102	-	-0.399	7(3P)4F108	-	-0.357	7(3P)4F105	-	0.338	7(3P)4F107	-
90	-	125898.2	-	-	0.849	7(3F)4D112	-	-0.473	7(3F)4D111	-	-0.122	7(3P)4F105	-	-0.090	7(3G)4F103	-
91	-	126460.3	-	-	0.834	7(3F)4P118	-	-0.472	7(3F)4P117	-	0.135	7(3P)4F105	-	0.111	7(3F)4D112	-
92	-	126523.2	-	-	0.695	7(3F)4F105	-	-0.402	7(3H)4F102	-	-0.379	7(3F)4F104	-	0.248	7(3G)4F103	-
93	-	127092.6	-	-	-0.769	7(3F)2D126	-	0.400	7(3F)2D125	-	-0.248	7(3P)2D129	-	0.199	7(3P)2D128	-
94	-	127614.3	-	-	-0.755	7(3F)2P138	-	0.419	7(3F)2P137	-	0.294	7(3P)2P141	-	-0.272	7(3P)2P140	-
95	-	128435.5	-	-	-0.758	4(3P)4P	30	-0.619	4(3P)4P	31	0.157	4(3P)2P	35	0.127	4(3P)2P	36
96	-	128563.8	-	-	0.886	4(3F)4F	26	0.462	4(3F)4F	27	-	-	-	-	-	-
97	-	129777.8	-	-	-0.992	9(6S)6D181	-	0.102	9(6S)6D182	-	-0.069	9(6S)4D207	-	-	-	-
98	-	129917.9	-	-	-0.985	7(3G)4D110	-	-0.089	7(3F)4P118	-	-0.079	7(3F)2P138	-	0.062	7(3H)4F102	-
99	-	130001.0	-	-	0.957	6(1F)2P	94	-0.145	6(1F)2D	84	0.127	6(3P)2P	92	-0.123	6(1D)2P	95
100	-	130051.8	-	-	0.756	4(3P)2P	35	0.622	4(3P)2P	36	0.155	4(3P)4P	30	0.129	4(3P)4P	31
101	-	130223.4	-	-	0.993	9(6S)4D207	-	-0.069	9(6S)6D181	-	-0.062	9(4G)4D208	-	-0.035	9(4P)4D214	-
102	-	130788.3	-	-	-0.957	6(1F)2D	84	-0.179	6(3D)2D	79	-0.137	6(1F)2P	94	-0.090	6(3G)2D	76
103	-	130877.5	-	-	-0.927	7(3G)2D124	-	0.277	7(3G)4F103	-	-0.098	7(1G)2D131	-	0.097	7(3D)2D127	-
104	-	130965.2	-	-	0.918	7(3G)4F103	-	0.293	7(3G)2D124	-	-0.158	7(3F)4F105	-	0.149	7(3H)4F102	-
105	-	132367.0	-	-	-0.997	5(3D)4D	41	-0.048	5(1D)2D	45	0.034	5(1D)2D	46	-0.033	5(3P)4P	42
106	-	132728.9	-	-	0.996	5(3D)2D	44	0.054	5(1D)2D	45	-0.038	5(1D)2D	46	0.036	5(3P)2P	47
107	-	134612.0	-	-	0.757	7(1G)2D131	-	-0.583	7(1G)2D130	-	0.168	7(3D)2D127	-	0.119	7(3P)2D126	-
108	-	136603.6	-	-	-0.983	7(3D)4S123	-	0.124	7(3D)4D113	-	0.103	7(3D)2P139	-	-0.055	7(1D)2P143	-
109	-	136717.0	-	-	0.969	7(3D)4D113	-	0.139	7(3D)4S123	-	0.134	7(3D)2P139	-	0.115	7(3D)4F106	-
110	-	136836.2	-	-	0.988	7(3D)4F106	-	-0.103	7(3D)4D113	-	-0.059	7(3D)2P139	-	-0.052	7(1D)2D133	-
111	-	136998.8	-	-	0.649	6(3P)4D	63	0.357	6(3P)4D	64	0.323	6(3P)4D	66	0.280	6(3P)4D	67
112	-	137100.7	-	-	-0.752	6(3P)2P	89	-0.394	6(3F)2P	90	-0.305	6(3P)2P	92	0.273	6(3P)4D	63
113	-	137143.5	-	-	0.963	7(3D)2P139	-	-0.157	7(3D)4D113	-	-0.123	7(1D)2P143	-	0.093	7(3D)4S123	-
114	-	137272.9	-	-	0.601	6(3P)4F	59	0.511	6(3P)4F	60	0.392	6(3P)4F	56	-0.331	6(3P)4D	63
115	-	137275.7	-	-	0.684	7(1S)2D136	-	0.598	7(3D)2D127	-	-0.398	7(1S)2D135	-	0.062	7(1D)2D133	-
116	-	137494.1	-	-	-0.988	7(3D)4P119	-	-0.078	7(3D)2P139	-	0.076	7(3F)4P117	-	0.060	7(3D)4D113	-
117	-	137683.4	-	-	0.999	8(4G)6G145	-	0.046	8(2F)4F151	-	-	-	-	-	-	-
118	-	137867.5	-	-	-0.657	6(3F)4P	69	0.478	6(3P)4P	72	0.399	6(3P)4P	73	-0.360	6(3P)4P	70
119	-	138504.1	-	-	-0.874	5(1D)2D	45	0.474	5(1D)2D	46	0.065	5(3D)2D	44	0.061	5(3D)4D	41
120	-	138603.0	-	-	0.760	7(3D)2D127	-	-0.502	7(1S)2D136	-	0.297	7(1S)2D135	-	-0.144	7(1G)2D131	-
121	-	138914.1	-	-	0.524	6(3P)2P	92	0.467	6(3P)2P	93	-0.325	6(3F)2P	89	0.299	6(3P)4D	66
122	-	139227.9	-	-	-0.523	6(3P)4D	66	-0.466	6(3P)4D	67	0.297	6(3P)2P	92	0.291	6(3F)4D	63
123	-	139455.1	-	-	-0.703	6(3F)4F	56	-0.383	6(3F)4F	57	0.352	6(3P)4F	59	0.293	6(3P)4F	60
124	-	140005.0	-	-	0.588	6(3P)2D	80	0.506	6(3P)2D	81	-0.337	6(3P)2D	77	-0.267	6(3P)2P	92
125	-	140216.6	-	-	0.974	10(4G6F)281	-	-0.176	10(4F6F)282	-	-0.085	10(4G6F)279	-	0.082	10(4D6F)283	-
126	-	140528.4	-	-	-0.589	6(3P)4P	72	-0.499	6(3F)4P	69	-0.492	6(3P)4P	73	-0.314	6(3P)4P	70
127	-	140642.2	-	-	-0.991	8(4P)6P148	-	-0.130	8(4D)6D147	-	-	-	-	-	-	-
128	-	141250.8	-	-	0.737	6(3P)2D	77	0.373	6(3P)2D	78	-0.315	6(1G)2D	82	-0.286	6(1G)2D	83
129	-	141332.9	-	-	-0.889	10(4P6P)290	-	0.429	10(4D6P)289	-	-0.100	10(6S6P)288	-	-0.094	10(4D6D)286	-
130	-	141966.6	-	-	0.989	10(4G6G)279	-	0.097	10(4F6G)280	-	0.084	10(4G6F)281	-	0.051	10(2F4F)301	-
131	-	142178.3	-	-	0.861	7(1D)2D133	-	-0.481	7(1D)2D134	-	-0.102	7(3D)2D127	-	0.055	7(3D)4F106	-
132	-	142675.9	-	-	0.850	7(1D)2P143	-	-0.481	7(1D)2P144	-	0.146	7(3D)2P139	-	0.074	7(1F)2P142	-
133	-	142987.9	-	-	-0.954	8(4P)4P159	-	-0.241	8(4D)6D147	-	-0.158	8(4D)4D154	-	-0.063	8(4P)4F158	-
134	-	143270.2	-	-	0.979	10(4P6D)287	-	0.133	10(4D6F)283	-	0.073	10(4F6D)285	-	-0.056	10(4D6D)286	-
135	-	143917.9	-	-	0.961	8(4D)6D147	-	-0.240	8(4P)4P159	-	-0.124	8(4P)6P148	-	-0.050	8(4D)4D154	-
136	-	143953.7	-	-	0.992	9(4G)6F177	-	0.113	9(4G)6G174	-	0.038	9(2P)4D218	-	-	-	-
137	-	144014.5	-	-	0.992	9(4G)6G174	-	-0.114	9(4G)6F177	-	0.041	9(2F)4F201	-	-	-	-
138	-	144877.0	-	-	-0.710	10(4G4F)291	-	-0.596	10(4G4F)292	-	0.233	10(4D4F)296	-	0.157	10(4F4F)293	-
139	-	145441.3	-	-	0.915	9(4G)6D183	-	-0.322	9(4P)6D186	-	-0.229	9(4D)6D185	-	-0.037	9(4P)6P189	-
140	-	145760.3	-	-	-0.934	10(4D6D)286	-	0.246	10(4F6D)285	-	0.153	10(4D6F)283	-	-0.099	10(4P4P)324	-
141	-	146064.8	-	-	0.913	10(4D6F)283	-	0.248	10(4P4D)312	-	0.142	10(4D6D)286	-	-0.135	10(4P6D)287	-
142	-	146323.8	-	-	0.983	8(4D)4D154	-	-0.164	8(4P)4P159	-	0.062	8(4D)4D153	-	-	-	-
143	-	146653.2	-	-	-0.959	9(4P)6P180	-	0.254	9(4D)6F179	-	-0.084	9(4D)6G176	-	0.054	9(4G)6D183	-
144	-	146852.2	-	-	0.983	9(4P)6P189	-	-0.129	9(4P)6D186	-	0.075	9(4D)6D185	-	-0.052	9(4G)4D209	-
145	-	146912.7	-	-	0.723	6(1G)2D	82	0.535	6(1G)2D	83	0.325	6(3F)2D	77	0.198	6(3P)2D	80
146	-	147053.9	-	-	-0.959	9(4G)4D209	-	-0.177	9(4D)4D213	-	-0.169	9(4G)4D208	-	0.066	9(4P)4D215	-
147	-	147272.2	-	-	0.540	10(4P4D)312	-	0.441	10(4P4P)324	-	-0.277	10(4D6F)283	-	-0.274	10(4P4P)325	-
148	-	147580.4	-	-	-0.894	9(4P)6D186	-	0.314	9(4D)6D185	-	-0.239	9(4G)6D183	-	-0.142	9(4P)6P189	-
149	-	147643.5	-	-	-0.575	10(4P4P)324	-	0.488	10(4P4D)312	-	0.359	10(4P4P)325	-	0.236	10(4D4P)322	-
150	-	148054.5	-	-	0.935	9(4G)4F191	-	0.242	9(4P)4F197	-	-0.177	9(4D)4F195	-	0.140	9(4G)4P190	-
151	-	148998.8	-	-												

173	-	153420.5	-	-	-	-0.714	10(4D4D309	-0.443	10(4P2P357	0.258	10(4P4D312	0.251	10(4D2P356
174	-	153695.0	-	-	-	0.576	10(4P2P357	-0.504	10(4D4D309	-0.415	10(4D2P356	0.239	10(4P4P325
175	-	153735.4	-	-	-	-0.970	8(4P)4F158	-0.167	8(4D)4D153	-0.128	8(4P)2P170	0.074	8(2D)4D157
176	-	153769.9	-	-	-	0.961	9(4D)4F195	0.160	9(4G)4F191	0.150	9(4D)4F194	-0.072	9(4D)4D213
177	-	154107.9	-	-	-	0.964	8(4P)2P170	0.172	8(4D)2D163	-0.143	8(4P)4F158	-0.067	8(2D)2D169
178	-	154302.6	-	-	-	0.555	10(4D4P322	0.461	10(4D4P323	-0.459	10(4P4P326	0.358	10(4P4P324
179	-	154491.2	-	-	-	0.930	9(4D)4D213	-0.190	9(4P)4D215	-0.184	9(4G)4D209	0.137	9(4D)4D212
180	-	154805.7	-	-	-	-0.964	9(4D)4P228	-0.137	9(4D)4P227	-0.118	9(2D)4P235	-0.106	9(4P)4P226
181	-	155381.0	-	-	-	-0.554	10(4P4P325	-0.372	10(4P4P324	-0.311	10(4D4P322	-0.296	10(4D4D310
182	-	155400.9	-	-	-	-0.878	4(1D)2D 34	-0.478	4(1D)2D 33				
183	-	155665.5	-	-	-	0.712	10(4D4D310	-0.266	10(4P4P325	-0.224	10(4D4F297	-0.221	10(4P4D313
184	-	155886.9	-	-	-	-0.691	10(4D4F297	-0.452	10(4P4F298	0.291	10(4D4F296	-0.255	10(4D4D310
185	-	156291.2	-	-	-	-0.941	8(4F)6F146	-0.256	8(4D)4D153	0.160	8(2D)4D157	0.099	8(2D)4D155
186	-	156489.4	-	-	-	0.746	10(4D2D336	-0.386	10(4D2D337	0.259	10(4D2P356	-0.188	10(2G2D339
187	-	156955.0	-	-	-	-0.888	10(4D4S332	-0.232	10(4P4P325	0.169	10(4P2P357	-0.168	10(4D2D336
188	-	157116.1	-	-	-	-0.944	8(4D)4D153	0.251	8(4F)6F146	0.136	8(4P)4F158	-0.105	8(2D)4D157
189	-	157119.0	-	-	-	-0.974	9(4G)2D242	-0.183	9(4D)2D244	-0.063	9(4F)2D243	0.059	9(4P)2D245
190	-	157443.9	-	-	-	-0.962	8(4D)2D163	-0.185	8(4F)4F150	0.175	8(4P)2P170	-0.053	8(2F)4F151
191	-	157516.1	-	-	-	-0.726	10(4D2P356	-0.505	10(4P2P357	-0.264	10(4D4S332	0.197	10(4D2D336
192	-	157851.9	-	-	-	0.575	7(3F)4D111	0.364	7(3F)2P137	0.317	7(3F)4D112	0.287	7(3P)4F107
193	-	157916.9	-	-	-	-0.709	7(3F)2P137	0.397	7(3F)4D111	-0.387	7(3F)2P138	-0.236	7(3P)2P140
194	-	158052.8	-	-	-	0.568	7(3P)4F107	0.484	7(3P)4F108	0.404	7(3F)4F104	-0.388	7(3F)4D111
195	-	158063.2	-	-	-	-0.984	9(4G)4F190	0.144	9(4G)4F191	0.053	9(4G)2D242	-0.046	9(2F)2D250
196	-	158397.7	-	-	-	0.704	7(3F)4P117	-0.408	7(3P)4P120	0.390	7(3F)4P118	-0.345	7(3P)4P121
197	-	158473.3	-	-	-	-0.759	8(2D)4D157	-0.424	8(2D)4D155	0.402	8(2F)4F151	-0.209	8(4F)6F146
198	-	158476.8	-	-	-	-0.966	10(4P6G280	0.166	10(2D4F305	0.105	10(2D4F303	0.094	10(4G6G279
199	-	158776.8	-	-	-	-0.902	8(4F)4F150	0.271	8(2D)2D169	-0.203	8(2F)4F151	0.192	8(4D)2D163
200	-	158956.6	-	-	-	-0.521	7(3P)2P140	-0.453	7(3P)2P141	0.289	7(3P)2P137	-0.265	7(3P)4D114
201	-	159207.8	-	-	-	0.526	7(3F)4F104	-0.342	7(3P)4D114	0.308	7(3P)2P140	-0.300	7(3P)4D115
202	-	159294.0	-	-	-	-0.462	7(3F)4F104	-0.413	7(3P)4D114	-0.362	7(3P)4D115	0.280	7(3P)4F107
203	-	159321.3	-	-	-	0.577	10(2D4D318	0.563	10(2F4D314	0.352	10(2D4D316	-0.227	10(4P4D312
204	-	159513.1	-	-	-	-0.886	9(4G)4D208	0.321	9(4D)4D214	0.232	9(4D)4D212	0.147	9(4G)4D209
205	-	159620.4	-	-	-	-0.771	8(2F)4F151	-0.366	8(2D)4D157	0.297	8(2D)2D169	0.288	8(4F)4F150
206	-	159798.0	-	-	-	0.472	7(3P)2D128	-0.459	7(3P)2D125	0.410	7(3P)2D129	-0.305	7(3P)2P140
207	-	160009.3	-	-	-	-0.618	7(3P)4P120	-0.522	7(3P)4P121	-0.386	7(3P)4P117	-0.233	7(3P)4P118
208	-	160156.3	-	-	-	-0.949	9(4P)2D245	-0.203	9(4D)2D244	-0.134	9(4G)4D208	0.109	9(4P)4F196
209	-	160536.5	-	-	-	0.662	10(2D4F305	-0.556	10(4F6F282	0.367	10(2D4F303	0.165	10(4D4F297
210	-	160565.7	-	-	-	0.702	7(3F)2D125	0.419	7(3P)2D128	0.364	7(3F)2D126	0.345	7(3P)2D129
211	-	160695.9	-	-	-	-0.716	10(4F6F282	-0.403	10(2D4F305	-0.262	10(4D4D311	-0.221	10(2D4P303
212	-	160775.4	-	-	-	0.761	9(4P)4F196	0.520	9(4P)4P229	-0.208	9(4D)4F194	-0.141	9(4P)4D214
213	-	160796.1	-	-	-	-0.752	9(4P)4P229	0.552	9(4P)4F196	-0.149	9(4P)2P266	-0.133	9(4D)4F194
214	-	160914.1	-	-	-	-0.764	8(2D)2D169	-0.425	8(2D)2D165	-0.419	8(2F)4F151	-0.205	8(4F)4F150
215	-	161095.1	-	-	-	0.517	10(4D4D311	0.418	10(4F6D285	0.313	10(4P4P326	0.292	10(4D4P323
216	-	161238.1	-	-	-	0.828	10(4F6D285	-0.350	10(4D4D311	0.213	10(4D6D286	0.148	10(4F6F282
217	-	161354.9	-	-	-	0.902	9(4P)2P266	-0.246	9(4P)4P229	-0.178	9(4P)4D214	-0.121	9(2F)2P267
218	-	161649.1	-	-	-	-0.589	10(4P4P326	-0.434	10(4D4P323	0.316	10(4D4D311	-0.241	10(2D2P364
219	-	161728.5	-	-	-	-0.841	9(4P)4D214	0.284	9(4D)4D212	-0.247	9(4G)4D208	-0.234	9(4P)2P266
220	-	161878.1	-	-	-	0.657	10(2D2P364	0.373	10(2D2P360	0.300	10(2P2P358	-0.225	10(2D2P365
221	-	162422.1	-	-	-	-0.814	10(2F4F301	0.309	10(2D2D350	0.178	10(2D2D344	0.144	10(2F2D341
222	-	162490.8	-	-	-	0.977	9(4F)6F178	-0.110	9(4D)4D224	0.102	9(4P)4D214	-0.071	9(2D)4D220
223	-	162590.3	-	-	-	0.970	9(4F)6P187	-0.160	9(2D)4S241	-0.098	9(2D)4S239	0.073	9(4D)4S237
224	-	162725.6	-	-	-	-0.970	9(4F)6G175	0.137	9(2D)4F205	0.086	9(2D)4F203	-0.082	9(4D)6G176
225	-	163026.2	-	-	-	0.707	10(2D4P329	0.402	10(4P4P326	0.389	10(2D4P327	0.196	10(2D4D318
226	-	164089.3	-	-	-	-0.887	9(4D)4P227	-0.238	9(4F)6D184	-0.220	9(2D)4S241	0.133	9(4D)4P228
227	-	164195.0	-	-	-	0.484	10(2F4D314	-0.345	10(2D4D318	-0.345	10(2D2D350	-0.285	10(2F4F301
228	-	164226.7	-	-	-	-0.690	9(2D)4S241	-0.388	9(2D)4S239	0.306	9(4D)4P227	0.278	9(2D)4P235
229	-	164381.7	-	-	-	0.480	10(2F4D314	0.469	10(2F2D340	0.426	10(2F2D341	0.274	10(2D2D350
230	-	164457.8	-	-	-	0.874	9(4D)4S237	-0.256	9(4F)6D184	-0.167	9(4D)2D244	0.162	9(2D)4S241
231	-	164486.6	-	-	-	0.659	9(4D)4F194	-0.584	9(4D)2D244	-0.220	9(4D)4S237	0.164	9(4P)4F196
232	-	164522.2	-	-	-	-0.542	9(4F)6D184	0.405	9(2D)4D222	-0.382	9(4D)4F194	-0.300	9(4D)4S237
233	-	164578.3	-	-	-	-0.615	9(4D)2D244	-0.537	9(4D)4F194	0.401	9(4F)6D184	0.140	9(4P)2D245
234	-	164710.1	-	-	-	0.510	9(4D)2P265	-0.434	9(4F)6D184	-0.335	9(2D)4D222	0.273	9(4F)4D211
235	-	164791.0	-	-	-	0.740	9(4D)2P265	-0.272	9(2D)4P205	0.268	9(4F)6D184	-0.265	9(2F)4F201
236	-	165091.2	-	-	-	-0.492	9(2D)4F205	-0.367	9(2D)4D222	0.365	9(4F)4D211	-0.307	9(2F)4F201
237	-	165100.7	-	-	-	0.562	10(2F2D340	-0.494	10(2D2D350	0.284	10(4P4F293	-0.252	10(2D2D344
238	-	165312.0	-	-	-	0.451	9(2F)4D218	-0.443	9(2D)4P235	-0.324	9(4F)6D184	-0.309	9(2D)4D222
239	-	165537.5	-	-	-	0.853	8(2D)2D168	0.478	8(2D)2D164	0.137	8(2F)4F151	-0.108	8(4F)4F149
240	-	165740.9	-	-	-	0.702	9(4F)4D211	0.386	9(4D)4D211	-0.293	9(2D)4P235	0.271	9(2D)4D222
241	-	166054.2	-	-	-	0.683	9(2F)4D218	-0.289	9(2D)2P276	0.285	9(2F)4P231	0.268	9(4F)4D211
242	-	166066.3	-	-	-	0.773	7(1G)2D130	0.593	7(1G)2D131	0.161	7(3F)2D125	0.107	7(3P)2D128
243	-	166160.1	-	-	-	0.773	9(4D)4D212	-0.282	9(4F)4D211	0.260	9(4G)4D208	0.199	9(2F)4F201
244	-	166536.5	-	-	-	-0.655	9(2F)4F201	-0.358	9(4F)4F193	0.342	9(2D)4F205	0.229	9(2D)2D259
245	-	166633.8	-	-	-	-0.763	10(4F4F293	-0.290	10(4F4F294	-0.265	10(2G4F300	0.225	10(2D2D351
246	-	167171.5	-	-	-	-0.637	9(2D)2P276	0.385	9(4F)4P226	-0.361	9(2D)2P272	-0.277	9(2F)4D218
247	-	167387.6	-	-	-	-0.752	10(2D2D351	-0.421	10(2D2D345	-0.241	10(2D2D350	-0.231	10(4F4F293
248	-	167397.3	-	-	-	0.711	9(4F)4P226	0.283	9(2D)4P235	-0.258	9(2F)2P268	-0.242	9(2F)4P231
249	-	167563.4	-	-	-	-0.747	9(4F)4F193	0.420	9(2H)4F198	0.287	9(2F)4F201	-0.201	9(2D)4F205
250	-	167841.8	-	-	-	-0.859	10(4F4D307	-0.243	10(4D4D311	-0.226	10(2F4D315	-0.161	10(4D4D309
251	-	167915.4	-	-	-	0.675	10(2D2P365	0.372	10(2D2P361	0.335	10(2D2P364	-0.216	10(2F2P358
252	-	168217.6	-	-	-	-0.867	6(1D)2P 96	-0.494	6(1D)2P 95	-0.059	6(1D)2D 86	-0.033	6(1D)2D 85
253	-	168245.1	-	-	-	-0.635	9(2D)2D259	0.412	9(2D)2D251	-0.358	9(2D)2D255	-0.270	9(4F)4F193
254	-	168491.3	-	-	-	-0.964	8(2F)4F152	0.253	8(4F)4F149	-0.043	8(4F)4F150	-0.034	8(2F)4F151
255	-	168516.2	-	-	-	0.869	6(1D)2D 86	0.478	6(1D)2D 85	0.087	6(3F)2D 77	-0.059	6(1D)2P 96
256	-	168568.6	-	-	-	0.819	9(2F)2P268	0.343	9(2F)2P267	0.296	9(2D)2P276	0.155	9(2D)2P272
257	-	168594.1	-	-	-	-0.606	10(2G4F300	-0.495	10(4P4F294	0.348	10(4P4F293	0.300	10(4P2D335
258	-												

273	-	173474.9	-	-	0.613	9(2D)2P275	-0.399	9(2F)2D250	0.343	9(2D)2P271	0.277	9(2F)2P267
274	-	173596.5	-	-	-0.550	10(2G2D339	-0.386	10(2D2D352	0.343	10(2F2D343	0.339	10(2F2D342
275	-	173800.1	-	-	-0.999	8(2S)4S162	-	-	-	-	-	-
276	-	174215.7	-	-	-0.769	9(2F)2D250	-0.295	9(2D)2P275	0.261	9(2F)2D251	-0.226	9(2F)2P267
277	-	174907.6	-	-	0.630	10(2D2D352	0.441	10(2F2D342	0.357	10(4F2D335	0.321	10(2D2D346
278	-	175072.7	-	-	-0.701	9(2G)2D249	0.396	9(2F)2D253	-0.276	9(2F)2D250	-0.263	9(4F)2D243
279	-	175203.1	-	-	-0.905	10(2S4P331	-0.338	10(2D4P328	0.127	10(4D4P323	0.108	10(4D4P322
280	-	175384.5	-	-	-0.895	9(2F)4F202	-0.303	9(2G)4F200	-0.186	9(2G)2D249	0.157	9(4F)2D243
281	-	175846.7	-	-	0.838	9(4F)2D243	-0.240	9(2G)2D249	0.213	9(2F)4D219	0.206	9(2F)2P267
282	-	175992.9	-	-	-0.643	9(2F)4D219	0.492	9(2F)2P267	-0.297	9(4F)2P264	-0.220	9(2F)2P268
283	-	176091.5	-	-	-0.695	10(2G2D339	-0.487	10(2F2D343	-0.244	10(2F2D342	-0.243	10(2F2D340
284	-	176140.7	-	-	-0.576	9(2F)4D219	-0.528	9(2F)4P232	0.325	9(4F)2D243	-0.310	9(2F)2P267
285	-	176293.6	-	-	-0.792	9(2F)4P232	0.304	9(2F)2P267	0.299	9(2F)4D219	-0.293	9(4F)2P264
286	-	176759.1	-	-	0.969	9(4F)4F192	-0.114	9(4F)4F193	0.110	9(2F)4D219	0.105	9(2F)4F202
287	-	176897.3	-	-	-0.952	9(4F)4P225	0.133	9(4F)4P226	-0.120	9(2D)2P275	0.111	9(2F)2P267
288	-	177195.9	-	-	-0.936	10(4F4F295	-0.161	10(4G4F292	0.159	10(2F4F302	0.157	10(4D4F297
289	-	177503.1	-	-	-0.903	9(2F)2P270	-0.377	9(2F)2P269	-0.108	9(4F)2P268	0.090	9(2F)2P268
290	-	178146.3	-	-	0.633	9(4F)2P264	-0.532	9(2F)2D253	0.342	9(2F)2P267	-0.228	9(2F)2D252
291	-	178346.0	-	-	-0.774	10(2F2P359	0.384	10(2S2P369	0.317	10(2F2P362	0.239	10(2F2P358
292	-	178449.2	-	-	-0.581	9(2F)2D253	-0.493	9(4F)2P264	-0.400	9(2G)2D249	0.297	9(2G)2D248
293	-	178792.5	-	-	-0.949	9(4F)4D210	0.165	9(4F)4D211	-0.142	9(2G)2D248	-0.085	9(2G)2D253
294	-	178867.8	-	-	-0.878	5(1D)2D 46	-0.478	5(1D)2D 45	-	-	-	-
295	-	179381.5	-	-	-0.763	10(2S2P369	-0.431	10(2F2P359	-0.246	10(2D2P362	-0.229	10(2S2D355
296	-	179610.5	-	-	-0.856	9(2G)2D248	-0.232	9(4F)2P264	-0.231	9(2F)2D252	-0.209	9(2F)2D253
297	-	180397.0	-	-	-0.999	8(2D)4D156	-	-	-	-	-	-
298	-	180479.9	-	-	0.687	10(2S2D355	0.415	10(2F2D342	-0.369	10(2F2D343	-0.313	10(2D2D348
299	-	180596.4	-	-	-0.971	9(2S)4D224	0.189	9(2F)4D219	0.088	9(2G)4D217	-0.052	9(4D)4D213
300	-	180624.8	-	-	-0.539	10(2F2D342	0.515	10(2S2D355	-0.508	10(2F2D343	-0.227	10(2S2P369
301	-	182320.4	-	-	-0.993	8(2D)2D167	-0.115	8(2D)2D166	-	-	-	-
302	-	182488.1	-	-	0.950	10(2D4F304	0.199	10(2G4F300	-0.136	10(2D4D317	0.130	10(2G4F299
303	-	183633.6	-	-	0.940	10(2D4D317	0.190	10(2F4D315	-0.139	10(2D4F328	0.138	10(2D4F304
304	-	183813.5	-	-	0.847	9(2F)2D252	-0.283	9(2F)2D253	-0.268	9(2S)2D263	0.242	9(2F)2P269
305	-	184029.9	-	-	-0.857	9(2F)2P269	0.343	9(2F)2P270	0.212	9(2F)2D252	-0.160	9(2S)2D263
306	-	184239.6	-	-	0.841	9(2S)2D263	0.331	9(2S)2D262	-0.232	9(2F)2D253	-0.197	9(2G)2D248
307	-	184685.7	-	-	0.904	10(2D4P328	-0.354	10(2S4P331	0.154	10(2D4D317	-0.096	10(4F4P321
308	-	185887.1	-	-	0.948	10(2D2D347	-0.145	10(2G2D338	0.129	10(2D2D348	0.100	10(2F2D343
309	-	186510.4	-	-	0.994	9(2D)4S240	0.083	9(2F)2P269	0.046	9(2D)4S241	-0.035	9(2F)2P232
310	-	186948.6	-	-	0.996	9(2D)4F204	0.053	9(2H)4F198	0.036	9(2F)4F202	0.033	9(4F)4F193
311	-	187251.1	-	-	-0.987	9(2D)4D221	0.082	9(2G)4D216	-0.072	9(2S)4D224	0.058	9(2G)4D217
312	-	187277.8	-	-	-0.992	8(2D)2D166	0.115	8(2D)2D167	-	-	-	-
313	-	188024.2	-	-	0.986	9(2D)4P234	0.084	9(4F)4P226	-0.065	9(2F)4P232	-0.053	9(2F)2P269
314	-	188216.9	-	-	0.862	7(1D)2P144	0.489	7(1D)2P143	0.115	7(1D)2D134	0.064	7(1D)2D133
315	-	188295.8	-	-	0.865	7(1D)2D134	0.481	7(1D)2D133	-0.115	7(1D)2P144	-0.065	7(1D)2P143
316	-	188393.5	-	-	0.920	9(2S)2D262	-0.302	9(2S)2D263	-0.172	9(2F)2D252	0.065	9(2F)2D253
317	-	188772.1	-	-	-0.793	10(2D2P362	-0.470	10(2D2P363	0.325	10(2S2P369	0.084	10(2F2P358
318	-	189113.3	-	-	-0.917	9(2D)2P274	-0.382	9(2D)2P273	-0.058	9(2F)2D252	0.054	9(2F)2P270
319	-	190422.0	-	-	-0.851	10(2D2P363	0.403	10(2D2P362	0.202	10(2F2P359	-0.173	10(2S2P369
320	-	190453.5	-	-	-0.862	6(1S)2D 87	-0.504	6(1S)2D 88	0.031	6(1D)2D 86	-	-
321	-	191073.3	-	-	-0.931	9(2D)2D257	-0.284	9(2D)2D256	-0.156	9(2G)2D247	-0.091	9(2G)2D246
322	-	191542.1	-	-	-0.754	10(2G4F299	-0.533	10(2D2D348	-0.199	10(2S2D355	0.150	10(2D4F303
323	-	191613.5	-	-	-0.688	10(2D2D348	0.593	10(2G4F299	-0.265	10(2S2D355	0.127	10(2D2D349
324	-	195038.7	-	-	0.934	9(2D)2D256	-0.299	9(2D)2D257	0.125	9(2G)2D247	-0.071	9(2G)4D216
325	-	195105.4	-	-	-0.991	9(2G)4D216	-0.083	9(2D)4D221	-0.063	9(2D)2D256	-0.031	9(2F)4D223
326	-	195830.0	-	-	0.912	9(2D)2P273	-0.371	9(2D)2P274	0.102	9(4F)2P264	-0.079	9(2F)2P269
327	-	196360.1	-	-	0.992	9(2G)4F199	0.076	9(4F)4F193	-0.058	9(2P)4F206	-0.049	9(2F)4F202
328	-	197457.5	-	-	0.879	10(2D2D349	0.343	10(2G2D338	0.210	10(2S2D355	0.124	10(2D2D348
329	-	198831.9	-	-	0.863	10(2G2D338	-0.298	10(2D2D349	0.209	10(2D2D346	0.198	10(2G2D339
330	-	199540.5	-	-	0.930	9(2G)2D247	0.243	9(2G)2D246	-0.157	9(2D)2D256	-0.133	9(2P)2D261
331	-	202942.6	-	-	0.958	9(2G)2D246	-0.261	9(2G)2D247	-0.064	9(2P)2D261	-0.062	9(2D)2D257
332	-	203745.4	-	-	-0.688	10(2P2P366	-0.381	10(2P2P367	-0.356	10(2D2P360	0.261	10(2D2P361
333	-	204231.9	-	-	0.999	8(2F)4P160	0.034	8(2D)4D155	-	-	-	-
334	-	205001.8	-	-	-0.706	10(2P4P330	0.513	10(2P4D319	-0.309	10(2D4P337	0.198	10(2P2P366
335	-	205336.8	-	-	-0.646	10(2P4S334	0.624	10(2P4D319	0.300	10(2P4P330	-0.209	10(2D4D316
336	-	205508.2	-	-	-0.712	10(2P4S334	-0.448	10(2P4D319	-0.420	10(2P4P330	-0.222	10(2D4P327
337	-	206135.3	-	-	-0.992	8(2P)2P172	-0.117	8(2P)2P171	-0.032	8(2D)2D165	-0.030	8(2D)4D155
338	-	209056.4	-	-	-0.682	10(2P2D353	0.636	10(2P2D354	-0.179	10(2D2D346	-0.160	10(2D2D345
339	-	210293.5	-	-	0.988	9(2P)4D223	-0.128	9(2D)4D220	0.068	9(2D)4D222	-0.032	9(2P)4P236
340	-	210583.3	-	-	-0.863	7(1S)2D135	-0.504	7(1S)2D136	-	-	-	-
341	-	210854.8	-	-	0.997	9(2P)4F206	0.057	9(2G)4F199	-	-	-	-
342	-	210948.6	-	-	0.884	8(2P)2P171	0.381	8(2D)4D155	-0.215	8(2D)4D157	-0.116	8(2P)2P172
343	-	211323.4	-	-	0.547	10(2P2P367	-0.433	10(2P2P366	-0.419	10(2D2P361	-0.312	10(2P2P368
344	-	211409.9	-	-	-0.991	9(2P)4P236	0.078	9(2D)4P233	-0.043	9(2D)4P234	-0.039	9(2D)4P235
345	-	211591.4	-	-	-0.783	8(2D)4D155	0.438	8(2D)4D157	0.434	8(2P)2P171	-0.062	8(2D)2D165
346	-	211761.6	-	-	0.634	10(2P2D353	0.569	10(2P2D354	0.239	10(2P2P367	-0.234	10(2D2D345
347	-	212749.6	-	-	0.910	9(2P)2P278	0.367	9(2D)2P277	-0.142	9(2D)2P272	-0.073	9(2D)2P271
348	-	213419.9	-	-	-0.857	8(2D)2D165	0.480	8(2D)2D169	-0.128	8(2P)2P171	-0.106	8(2D)2D164
349	-	214062.1	-	-	-0.798	10(2D4F303	0.452	10(2D4F305	0.258	10(2D4D316	-0.187	10(2G4F299
350	-	214396.2	-	-	0.763	10(2D4D316	-0.435	10(2D4D318	0.112	10(2P4D319	0.273	10(2D4F303
351	-	215514.4	-	-	0.961	9(2P)2D261	0.172	9(2P)2D260	0.308	9(2G)2D247	0.087	9(2G)2D246
352	-	215649.4	-	-	0.579	10(2P2P367	0.575	10(2P2P368	-0.354	10(2D2P360	0.295	10(2D2P361
353	-	217203.3	-	-	-0.868	9(2D)4S239	0.487	9(2D)4S241	0.051	9(2P)2P278	-0.045	9(2P)2P277
354	-	217744.4	-	-	-0.799	9(2D)4D220	0.451	9(2D)4D222	-0.326	9(2P)2D260	-0.132	9(2P)4D223
355	-	217779.1	-	-	0.762	10(2D4P327	-0.444	10(2D4P329	-0.441	10(2P4P330	-0.090	10(2P2P367
356	-	218114.6	-	-	0.812	9(2P)2D260	0.328	9(2D)4F203	-0.308	9(2D)4D220	-0.183	9(2D)4F205
357	-	218328.2	-	-	-0.866	8(2D)2D164	0.485	8(2D)2D168	0.105	8(2D)2D165	-0.059	8(2D)2D169
358	-	218785.3	-	-	0.798	9(2D)4F203	-0.443	9(2D)4F205	-0.374	9(2P)2D260	-0.092	9(2D)2D255
359	-	218864.0	-	-	0.775	9(2D)4P233	-0.435	9(2D)4P235	0.397	9(2P)2P277	-0.197	9(2P)2P278
360	-	219133.2	-	-	0.775	10(2D2D344	-0.431	10(2D2D350	-0.305	10(2D2D345	0.186	10(2D2D351
361	-	219269.5	-	-	0.779	9(2P)2P277	-0.384	9(2D)4P233	-0.338	9(2P)2P278	0.214	9(2D)4P235
362	-	220323.9	-	-								

J	2.5	26.01	D7	D6	4S	+ D5	4S2	+ D6	5S	+ D6	6S	+ D6	4D	+ D6	5D	+ D5	4S5S	+ D5	4S4D	+ D5	4P2	
			1	2		3	4	5	6	7	8	9	10									
	OBSERVED ENERGY	EIGENVALUE	OBSERVED LABEL			PRINCIPAL EIGENVECTOR COMPONENTS																
1	667.683	689.9	22.2	D6S	(5D)6D	-0.999	2(5D)6D	6														
2	2837.950	2751.0	-87.0	D7	(5D)4F	0.999	1(4F)4F	1	0.030	3(4F)4F	22											
3	8391.938	8393.5	1.5	D6S	(5D)4D	0.999	2(5D)4D	10														
4	13474.411	13508.7	34.2	D7	(5D)4P	-0.991	1(4P)4P	2	0.101	2(3P)4P	13	-0.057	2(3P)4P	12	-0.049	3(4P)4P	24					
5	20516.960	20354.8	-162.2	D7	(5D)2D	0.877	1(2D)2D	5	-0.469	1(2D)2D	4	-0.046	2(3D)2D	17	-0.046	2(3P)4P	13					
6	20830.582	21074.5	243.9	D6S	(3P)4P	0.770	2(3P)4P	13	-0.621	2(3P)4P	12	0.117	1(4P)4P	2	0.049	1(2D)2D	5					
7	22939.358	23015.2	75.9	D6S	(3F)4F	-0.881	2(3F)4F	9	0.452	2(3F)4F	8	0.130	2(3G)4G	7								
8	23317.633	23153.2	-164.5	D5S2	(7S)6S	-1.000	3(6S)6S	20														
9	26055.423	25875.6	-179.9	D6S	(3G)4G	0.976	2(3G)4G	7	-0.151	2(3F)2F	15	0.122	2(3F)4F	9	0.085	2(3F)2F	14					
10	27620.412	27703.3	82.9	D6S	(3F)2F	0.860	2(3F)2F	15	-0.437	2(3F)2F	14	0.187	1(2F)2F	3	0.175	2(3G)4G	7					
11	31387.948	31060.4	-327.5	D6S	(3D)4D	0.996	2(3D)4D	11	0.049	2(1D)2D	18	0.041	2(3P)4P	12	-0.038	2(1D)2D	19					
12	31811.822	31696.3	-115.5	D7	(5D)2F	0.978	1(2F)2F	3	-0.170	2(3F)2F	15	0.082	2(3F)2F	14	0.060	2(1F)2F	16					
13	36252.918	35863.3	-389.6	D6S	(3D)2D	0.993	2(3D)2D	17	-0.075	2(1D)2D	18	0.046	2(1D)2D	19	-0.044	1(2D)2D	4					
14	38164.194	38895.9	731.7	D6S	(1D)2D	0.871	2(1D)2D	18	-0.464	2(1D)2D	19	-0.097	1(2D)2D	4	0.083	2(3D)2D	17					
15	44929.550	44857.3	-72.2	D6S	(1F)2F	0.992	2(1F)2F	16	-0.082	2(3F)4F	8	-0.061	1(2F)2F	3	-0.043	2(3F)4F	9					
16	48039.090	47929.7	-109.4	D7	(5D)2D	-0.872	1(2D)2D	4	-0.473	1(2D)2D	5	-0.078	2(1D)2D	18	0.064	3(2D)2D	27					
17	50142.786	50103.8	-39.0	D6S	(3F)4F	-0.886	2(3F)4F	8	-0.453	2(3F)4F	9	-0.091	2(1F)2F	16								
18	50219.826	50494.5	281.7	D6S	(3P)4P	-0.778	2(3P)4P	12	-0.625	2(3P)4P	13	-0.033	2(1D)2D	18								
19	54275.637	54277.8	2.2	D5S2	(7S)4S	0.998	3(4G)4G	21	0.056	3(2F)2F	25											
20	54870.528	54802.9	-67.6	D6S	(3F)2F	0.889	2(3F)2F	14	0.453	2(3F)2F	15	0.043	2(1F)2F	16								
21	57411.065	57454.3	43.2	D5S2	(7S)4P	0.967	3(4P)4P	24	0.237	3(4D)4D	23	-0.059	3(2D)2D	29	-0.047	1(4P)4P	2					
22	60445.275	60524.6	79.4	D5S2	(7S)4D	-0.970	3(4D)4D	23	0.236	3(4P)4P	24	-0.043	3(4F)4F	22								
23	-	71367.4	-	-	-	0.742	3(2D)2D	29	-0.497	3(2F)2F	25	0.409	3(2D)2D	27	-0.154	3(4F)4F	22					
24	73395.930	73312.3	-83.6	D5S2	(7S)4F	0.947	3(4F)4F	22	-0.314	3(2F)2F	25	-0.048	3(2F)2F	26	-0.037	3(4D)4D	23					
25	-	74017.9	-	-	-	-0.804	3(2F)2F	25	-0.460	3(2D)2D	29	-0.270	3(4F)4F	22	-0.244	3(2D)2D	27					
26	-	76693.7	-	-	-	-0.882	2(1D)2D	19	-0.470	2(1D)2D	18											
27	78525.407	78526.1	0.7	5S	(5D)6D	0.995	4(5D)6D	30	0.092	4(5D)4D	34											
28	79885.493	79881.2	-4.3	5S	(5D)4D	-0.995	4(5D)4D	34	0.092	4(5D)6D	30											
29	81639.260	81702.4	63.1	D5S2	(7S)2F	0.995	3(2F)2F	26	0.064	3(4F)4F	22	0.055	3(2D)2D	28	0.041	3(2F)2F	25					
30	83308.194	83336.1	28.0	4D	(5D)6F	-0.910	6(5D)6F	59	0.381	6(5D)6D	60	-0.114	6(5D)6P	61	0.089	6(5D)6G	58					
31	83812.316	83857.3	44.9	4D	(5D)6D	0.759	6(5D)6D	60	-0.516	6(5D)6P	61	0.378	6(5D)6F	59	0.101	6(5D)6S	62					
32	84326.912	84406.3	79.4	4D	(5D)6P	0.806	6(5D)6P	61	0.516	6(5D)6D	60	-0.216	6(5D)6S	62	0.141	6(5D)4D	77					
33	84844.834	84745.8	-99.0	4D	(5D)6G	0.989	6(5D)6G	58	0.109	6(5D)6F	59	0.078	6(5D)4G	63	0.031	6(5D)6D	60					
34	84870.863	84857.5	-13.3	4D	(5D)4D	-0.973	6(5D)4D	77	0.135	6(5D)4F	69	0.108	6(5D)6P	61	0.095	6(5D)6D	60					
35	85679.698	85679.3	-0.4	4D	(5D)4G	-0.985	6(5D)4G	63	0.134	6(5D)4F	69	0.078	6(5D)6G	58	0.043	6(5D)4D	77					
36	85495.304	85777.0	281.7	4D	(5D)6S	0.970	6(5D)6S	62	0.239	6(5D)6F	61	0.033	6(5D)6D	60								
37	86599.738	86608.9	9.2	4D	(5D)4F	-0.964	6(5D)4F	69	-0.142	6(5D)4G	63	-0.132	6(5D)4D	77	0.118	6(3H)4F	70					
38	87985.628	87977.2	-8.5	4D	(5D)4P	-0.986	6(5D)4P	84	-0.098	6(3F)4F	86	-0.037	6(5D)4D	77	-0.070	6(3D)4P	87					
39	-	93860.5	-	-	-	0.997	3(2D)2D	28	-0.056	3(2F)2F	26	-0.033	1(2D)2D	5								
40	-	97609.1	-	-	-	-0.771	4(3P)4P	37	0.635	4(3P)4P	36	-0.037	4(3D)4D	35								
41	99824.045	99823.4	-0.7	5S	(3F)4F	0.873	4(3F)4F	33	-0.462	4(3F)4F	32	-0.122	4(3G)4G	31	0.079	4(3F)2F	39					
42	100749.810	100758.6	8.8	5S	(3F)2F	-0.872	4(3F)2F	39	0.459	4(3F)2F	38	0.125	4(3G)4G	31	0.097	4(3F)4F	33					
43	102334.112	102332.4	-1.7	6S	(5D)6D	0.966	5(5D)6D	44	0.255	5(5D)4D	48											
44	-	102770.0	-	-	-	-0.568	6(3P)4D	83	0.505	6(3P)4D	82	0.440	6(3P)4P	89	-0.365	6(3P)4P	88					
45	102802.312	102820.4	18.1	6S	(5D)4D	-0.967	5(5D)4D	48	0.255	5(5D)6D	44											
46	-	103130.6	-	-	-	0.984	4(3G)4G	31	0.124	4(3F)2F	39	0.101	4(3F)4F	33	-0.056	4(3F)2F	38					
47	-	103397.3	-	-	-	-0.394	6(3P)4F	76	0.357	6(3P)2D107		0.333	6(3P)4F	75	-0.328	6(3P)2F	96					
48	-	104082.4	-	-	-	0.445	6(3P)2F	96	0.436	6(3H)2F	90	0.375	6(3P)4P	89	-0.370	6(3P)2F	95					
49	-	104140.0	-	-	-	0.777	6(3H)4F	64	-0.324	6(3H)4F	70	0.232	6(3P)4F	67	0.184	6(3P)4F	76					
50	104120.270	104172.0	51.7	5D	(5D)6P	-0.793	7(5D)6P116		0.537	7(5D)6D117		-0.238	7(5D)6P118		0.102	7(5D)6G115						
51	-	104220.2	-	-	-	0.424	6(3H)4F	64	0.413	6(3H)4F	70	-0.352	6(3D)4D	83	-0.317	6(3P)4F	76					
52	104426.460	104477.2	50.8	5D	(5D)6F	-0.614	7(5D)6P118		0.536	7(5D)6P116		0.535	7(5D)6D117		0.180	7(5D)6S119						
53	-	104515.9	-	-	-	0.662	6(3H)2F	90	0.368	6(3P)2D107		-0.317	6(3P)2D106		-0.265	6(3P)2D104						
54	104828.160	104849.5	21.4	5D	(5D)6D	-0.617	7(5D)6P118		-0.598	7(5D)6D117		-0.340	7(5D)4D134		0.280	7(5D)6S119						
55	105127.770	104999.4	-128.4	5D	(5D)4D	-0.906	7(5D)4D134		0.245	7(5D)6P118		0.237	7(5D)6D117		0.161	7(5D)4F126						
56	-	105035.8	-	-	-	0.427	6(3F)4F	73	-0.390	6(3H)2F	90	0.343	6(3H)4F	70	0.275	6(3P)2F	96					
57	-	105102.7	-	-	-	-0.374	6(3F)4F	73	0.327	6(3P)2F	96											

97	-	122424.4	-	-0.999	8(6S)6S176	0.041	8(6S)6S177				
98	-	123359.9	-	0.579	7(3P)4D140	-0.508	7(3P)4D139	-0.427	7(3P)4P146	0.360	7(3P)4P145
99	-	123463.6	-	0.857	5(3F)4F 47	-0.454	5(3F)4F 46	0.178	5(3F)2F 53	-0.128	5(3G)4G 45
100	-	123815.8	-	0.435	7(3P)2D164	-0.374	7(3P)2D163	-0.361	7(3P)2F153	-0.356	7(3P)4F133
101	-	123878.0	-	0.860	5(3F)2F 53	-0.452	5(3F)2F 52	-0.193	5(3F)4F 47	0.096	5(3F)4F 46
102	-	124499.0	-	-0.457	7(3P)2F153	-0.435	7(3P)4P146	0.386	7(3P)2F152	0.364	7(3P)4P145
103	-	124600.7	-	0.512	7(3H)4G121	-0.455	7(3H)4F127	0.339	7(3P)4F133	-0.287	7(3P)4F132
104	-	124657.4	-	0.825	7(3H)4G121	-0.238	7(3P)4F133	0.225	7(3H)4F127	0.202	7(3P)4F132
105	-	124855.4	-	-0.749	7(3H)2F147	-0.319	7(3P)2D164	0.273	7(3P)2D163	0.229	7(3P)4P146
106	-	125168.6	-	-0.876	3(2D)2D 27	0.481	3(2D)2D 27	-0.040	1(2D)2D 4		
107	-	125200.5	-	-0.505	7(3H)2F147	0.390	7(3P)2F153	-0.343	7(3P)2F152	0.328	7(3P)2D164
108	-	125215.0	-	-0.986	10(6S6S)346	-0.112	10(4P6S)347	0.111	10(6S6P)388	0.043	10(6S6P)343
109	-	125294.0	-	-0.566	7(3H)4F127	-0.399	7(3P)4F133	-0.376	7(3F)4F130	0.339	7(3P)4F132
110	-	125782.8	-	0.824	7(3F)4D137	-0.464	7(3F)4D136	0.142	7(3F)4G124	-0.137	7(3F)4F130
111	-	125888.4	-	-0.838	7(3F)4G124	0.475	7(3F)4G123	0.167	7(3H)4G121	0.149	7(3F)4D137
112	-	126267.6	-	-0.833	7(3F)4P143	0.480	7(3F)4P142	-0.126	7(3F)4D137	0.116	7(3G)4D135
113	-	126350.3	-	-0.816	7(3F)2F150	0.470	7(3F)2F149	-0.142	7(3P)2F153	0.135	7(3G)2F148
114	-	126527.0	-	-0.711	7(3F)4F130	0.417	7(3H)4F127	0.390	7(3F)4F129	-0.217	7(3G)4F128
115	-	126759.2	-	0.988	5(3G)4G 45	0.099	5(3F)2F 53	0.099	5(3F)4F 47	-0.043	5(3P)2F 52
116	-	127050.4	-	0.808	7(3F)2D161	-0.428	7(3F)2D160	0.258	7(3P)2D164	-0.205	7(3P)2D163
117	-	128613.7	-	0.881	4(3F)4F 32	0.464	4(3F)4F 33	0.064	4(1F)2F 60	-0.048	4(3P)2F 38
118	-	129218.4	-	-0.771	4(3P)4P 36	-0.635	4(3P)4P 37				
119	-	129515.9	-	0.882	4(3F)2F 38	0.464	4(3F)2F 39	0.056	4(1F)2F 40	0.041	4(3F)4F 32
120	-	129767.5	-	0.939	7(3G)4D135	-0.272	7(3G)4G122	0.138	7(3G)2D159	0.091	7(3G)4P143
121	-	129769.6	-	0.948	7(3G)4G122	0.264	7(3G)4D135	0.077	7(3F)4F130	-0.074	7(3G)2F148
122	-	129784.7	-	0.990	9(6S)6D216	-0.101	9(6S)6D217	0.092	9(6S)4D258		
123	-	130223.7	-	-0.991	9(6S)4D258	0.093	9(6S)6D216	0.062	9(4G)4D259	0.035	9(4D)4D263
124	-	130382.8	-	-0.979	6(1F)2F 99	-0.104	6(1F)2D110	-0.087	6(3P)2F 95	0.063	6(3G)2F 91
125	-	130504.2	-	-0.892	7(3G)2D159	0.337	7(3G)2F148	0.139	7(3G)4F128	0.136	7(3G)4D135
126	-	130606.7	-	0.963	6(1F)2D110	0.155	6(3D)2D105	0.115	6(3F)2D103	-0.097	6(1F)2F 99
127	-	130821.0	-	-0.909	7(3G)4F128	-0.235	7(3G)2D159	-0.216	7(3G)2F148	-0.139	7(3H)4F127
128	-	130977.2	-	-0.864	7(3G)2F148	0.285	7(3G)4F128	-0.284	7(3G)2D159	0.168	7(3H)2F147
129	-	132398.2	-	0.988	5(3D)4D 49	-0.120	5(3D)2D 55	0.066	5(1D)2D 56	-0.047	5(1D)2D 57
130	-	132844.9	-	-0.991	5(3D)2D 55	-0.123	5(3D)4D 49				
131	-	133979.0	-	-0.763	7(1G)2F155	0.606	7(1G)2F154	0.111	7(3D)2F151	0.096	7(3G)2F148
132	-	134554.9	-	0.754	7(1G)2D166	-0.584	7(1G)2D165	0.181	7(3D)2D162	-0.087	7(3D)2D159
133	-	136632.3	-	0.995	7(3D)4G125	-0.057	7(3G)4G122	0.042	7(3D)4F131	-0.037	7(3F)4G124
134	-	136735.6	-	0.957	7(3D)4D138	0.269	7(3D)4F131	0.068	7(3D)4P144	-0.045	7(3G)4D135
135	-	136863.2	-	-0.956	7(3D)4F131	0.266	7(3D)4D138	0.049	7(3D)2F151	0.044	7(3D)4G125
136	-	137037.4	-	-0.702	6(3F)4D 79	-0.390	6(3F)4D 80	-0.336	6(3P)4D 82	-0.290	6(3P)4D 83
137	-	137294.2	-	-0.721	7(1S)2D171	-0.530	7(3D)2D162	0.419	7(1S)2D170	-0.106	7(3D)2F151
138	-	137427.9	-	0.598	6(3P)4F 75	0.509	6(3P)4F 76	0.428	6(3F)4F 72	-0.316	6(3P)4D 79
139	-	137483.1	-	0.947	7(3D)2F151	0.230	7(3D)4P144	-0.135	7(3G)2F154	-0.073	7(1G)2F154
140	-	137541.7	-	-0.960	7(3D)4P144	0.226	7(3D)2F151	0.079	7(3D)4D138	-0.068	7(1S)2D171
141	-	137692.6	-	0.999	8(4G)6G172	0.040	8(2F)4F184				
142	-	137720.5	-	0.613	6(3F)4P 85	-0.508	6(3P)4P 88	-0.422	6(3P)4P 89	0.339	6(3F)4P 86
143	-	138470.0	-	0.865	6(3P)4G 66	0.493	6(3P)4G 67	-0.041	6(3P)2F 95	-0.036	6(3P)2F 92
144	-	138503.4	-	-0.874	5(1D)2D 56	0.474	5(1D)2D 57	0.076	5(3D)4D 49	-0.043	5(3D)2D 55
145	-	138649.5	-	-0.812	7(3D)2D162	0.448	7(1S)2D171	-0.265	7(1S)2D170	0.147	7(1G)2D166
146	-	138967.6	-	-0.779	6(3P)2F 92	-0.459	6(3P)2F 93	-0.238	6(3P)2F 95	-0.198	6(3P)2F 96
147	-	139092.1	-	-0.996	10(4G6G)333	-0.052	10(2F4G)357	-0.047	10(4G4G)348	0.040	10(4G6G)334
148	-	139172.5	-	-0.522	6(3P)4D 82	-0.465	6(3P)4D 83	0.396	6(3P)4F 72	0.294	6(3P)4D 79
149	-	139564.7	-	-0.476	6(3F)4F 75	-0.350	6(3P)4D 82	-0.327	6(3P)2F 95	-0.312	6(3P)4D 83
150	-	139604.9	-	-0.437	6(3P)2F 92	-0.396	6(3P)2D106	0.392	6(3P)4F 72	-0.379	6(3P)2F 96
151	-	140122.8	-	0.997	8(4G)4G179	0.060	8(4G)4G178	0.043	8(2F)2F196		
152	-	140148.4	-	0.969	10(4G6G)336	-0.174	10(4F6G)337	-0.125	10(4G6G)334	0.079	10(4D6F)338
153	-	140196.7	-	-0.361	6(3P)2D106	0.349	6(3P)4P 85	0.343	6(3P)4P 88	0.319	6(3P)2F 95
154	-	140403.3	-	-0.435	6(3P)4P 88	-0.392	6(3P)2D106	-0.381	6(3P)4P 85	-0.362	6(3P)4P 89
155	-	140586.1	-	0.983	8(4P)6P175	0.181	8(4D)6D174				
156	-	141223.7	-	0.706	6(3F)2D103	0.362	6(3F)2D104	-0.340	6(1G)2D108	-0.300	6(1G)2D109
157	-	141476.2	-	0.876	10(4P6P)345	-0.422	10(4D6P)344	0.132	10(4D6P)341	-0.116	10(4P6S)347
158	-	142003.0	-	-0.984	10(4G6G)334	-0.123	10(4G6G)336	-0.099	10(4F6G)335	-0.045	10(2F4F)369
159	-	142167.5	-	0.858	7(1D)2D168	-0.478	7(1D)2D169	0.109	7(1D)2F157	-0.060	7(1D)2F158
160	-	142277.5	-	0.859	7(1D)2F157	-0.481	7(1D)2F158	-0.107	7(1D)2D168	0.059	7(1D)2D169
161	-	142966.5	-	-0.967	8(4P)4P192	-0.183	8(4D)4D187	-0.151	8(4D)6D174	-0.060	8(4P)4P191
162	-	143388.3	-	0.972	10(4P6D)347	0.178	10(4D6F)338	0.064	10(4P6P)345	0.061	10(4P4D)380
163	-	143734.4	-	0.997	9(4G)6G202	-0.055	9(4F)6H208	0.043	9(2F)4G236		
164	-	143929.2	-	-0.971	8(4D)6D174	0.178	8(4P)6P175	0.152	8(4P)4P192	-0.035	8(4F)6F173
165	-	143955.2	-	-0.989	9(4G)6F212	-0.137	9(4G)6G209	-0.032	9(4F)6F213	-0.030	9(2F)4D269
166	-	144021.9	-	-0.989	9(4G)6G209	0.138	9(4G)6F212	-0.034	9(2F)4F252		
167	-	144859.6	-	-0.631	10(4G4F)359	-0.524	10(4G4F)360	0.418	10(4G4G)348	0.217	10(4D4F)364
168	-	145039.1	-	0.996	5(1F)2F 54	-0.056	5(3F)4F 46	-0.048	5(3F)2F 52	-0.031	5(3F)4F 47
169	-	145355.3	-	-0.826	10(4G4G)348	-0.318	10(4G4F)359	-0.271	10(4G4G)349	-0.265	10(4G4F)360
170	-	145410.0	-	0.906	9(4G)6D221	-0.335	9(4P)6D221	-0.239	9(4D)6D220	-0.052	9(4P)6P224
171	-	145838.4	-	-0.872	10(4D6D)341	-0.326	10(4P6S)347	0.226	10(4F6D)340	0.212	10(4D6F)338
172	-	146014.6	-	0.915	10(4P6S)347	-0.277	10(4D6D)341	0.192	10(4P6P)345	0.139	10(4D6F)338
173	-	146247.5	-	-0.894	10(4D6F)338	-0.228	10(4D6D)341	-0.214	10(4P4D)380	0.180	10(4P6D)342
174	-	146343.7	-	0.979	8(4D)4D187	-0.184	8(4P)4P192	0.060	8(4D)4D186	0.039	8(4F)4F183
175	-	146670.8	-	0.940	9(4P)6F215	-0.227	9(4D)6F214	0.183	9(4P)6P224	0.127	9(4D)6G211
176	-	146737.1	-	0.942	9(4P)6P224	-0.195	9(4P)6F215	-0.151	9(4P)6D221	0.149	9(4D)6P223
177	-	146760.4	-	0.700	6(1G)2F 97	0.571	6(1G)2F 98	-0.264	6(1G)2D108	-0.198	6(1G)2D109
178	-	147056.7	-	0.958	9(4G)4D260	0.179	9(4D)4D264	0.170	9(4G)4D259	0.070	9(4G)4D262
179	-	147127.8	-	-0.660	6(1G)2D108	-0.490	6(1G)2D109	-0.337	6(3F)2D103	-0.261	6(1G)2F 97
180	-	147279.0	-	-0.554	10(4P4D)380	-0.412	10(4P4P)392	0.295	10(4P4P)393	-0.289	10(4D4D)377
181	-	147661.2	-	-0.877	9(4P)6D221	0.273	9(4D)6D220	-0.262	9(4G)6P224	-0.178	9(4P)6P224
182	-	147684.6	-	0.604	10(4P4P)392	-0.459	10(4P4D)380	-0.423	10(4P4P)393	-0.217	10(4D4P)391
183	-	147692.1	-	-0.958	9(4G)4G227	-0.150	9(4D)4G231	-0.148	9(4G)4G226	0.115	9(4D)6D221
184	-	148067.7	-	-0.933	9(4G)4F242	-0.233	9(4P)4F248	0.170	9(4D)4F246	-0.140	9(4G)4F241
185	-	149476.0	-	0.860	10(4D6P)344	0.396	10(4P6P)345	-0.188	10(4G4D)374	-0.110	10(4P4P)392
186	-	149765.9	-	-0.770	10(4G4D)374	-0.290	10(4P4D)380	-0.279	10(4P4F)366	-0.228	10(4P4D)381
187	-	149817.6	-	0.813	9(4P)4D266	0.337	9(4D)6P223	0.295	9(4D)6F214	0.220	9(4D)4D264
188	-	149864.8	-	0.664	10(4P4F)366	-0.356	10(4G4G)349	-0.346	10(4D4F)365	-0.218	

197	-	150832.4	-	-	-	-0.507	10(4P2D423	0.400	10(4G2F400	-0.389	10(4D4F364	-0.343	10(4G4F359
198	-	151011.0	-	-	-	0.914	9(4P)4F248	-0.211	9(4G)4F242	-0.204	9(4D)6G211	-0.143	9(4D)6F214
199	-	151333.3	-	-	-	0.591	10(4P2D423	-0.424	10(4G4F359	0.402	10(4G4F360	0.293	10(4D2D422
200	-	151387.6	-	-	-	-0.940	9(4P)4F281	0.139	9(2F)4F282	-0.129	9(4P)4F280	-0.123	9(4D)4F279
201	-	151635.0	-	-	-	-0.649	10(4P4D381	-0.376	10(4G2F400	-0.330	10(4D4D378	0.280	10(4P4D380
202	-	151715.6	-	-	-	0.643	10(4G2F400	-0.399	10(4P4D381	0.246	10(4D4F364	0.241	10(4G4F359
203	-	151952.1	-	-	-	-0.628	10(4D4P390	0.450	10(4D4P391	0.372	10(4P4P393	0.276	10(4P4P392
204	-	151969.6	-	-	-	-0.910	9(4D)6D220	-0.303	9(4G)6D218	-0.205	9(4P)6D221	0.109	9(4P)4F281
205	-	152257.9	-	-	-	0.876	5(3F)4F46	0.462	5(3F)4F47	-0.109	5(3F)2F52	0.056	5(1F)2F54
206	-	152620.5	-	-	-	-0.876	5(3F)2F52	-0.462	5(3F)2F53	-0.103	5(3F)4F46	-0.061	5(1F)2F54
207	-	152723.0	-	-	-	-0.608	10(4D4F364	-0.484	10(4G4F360	-0.317	10(4D4F365	0.242	10(4D4G353
208	-	152854.3	-	-	-	-0.771	5(3P)4F50	-0.635	5(3P)4F51				
209	-	152931.5	-	-	-	-0.732	10(4D4G353	0.389	10(4G4G350	0.289	10(4F4G352	0.206	10(4P4F366
210	-	153652.5	-	-	-	-0.971	8(4P)4P191	-0.176	8(4D)4D186	0.078	8(2D)4D190	0.077	8(4D)2D199
211	-	153660.2	-	-	-	0.862	10(4D4D377	-0.307	10(4P4D380	0.183	10(4D4P390	-0.180	10(4P4D375
212	-	153757.4	-	-	-	-0.956	9(4D)4F246	-0.164	9(4G)4F242	-0.148	9(4D)4F245	0.115	9(4D)4D264
213	-	153917.0	-	-	-	-0.953	9(4D)4G231	-0.148	9(4D)4G230	-0.146	9(2I)4G232	0.132	9(4G)4G227
214	-	154160.6	-	-	-	0.604	10(4D4P390	-0.447	10(4P4P394	0.404	10(4P4P392	0.398	10(4D4P391
215	-	154630.1	-	-	-	-0.910	9(4D)4D264	0.256	9(4P)4D266	0.182	9(4G)4D260	-0.133	9(4D)4D263
216	-	154776.4	-	-	-	-0.950	9(4D)4P279	-0.144	9(4F)4P277	0.140	9(4P)4P281	-0.132	9(4D)4P278
217	-	155400.9	-	-	-	0.878	4(1D)2D43	0.478	4(1D)2D42				
218	-	155428.0	-	-	-	-0.451	10(4D4F365	0.382	10(4D4D378	-0.372	10(4D2F402	-0.297	10(4G4G350
219	-	155619.6	-	-	-	-0.492	10(4G4G350	-0.435	10(4P4P393	-0.348	10(4D4D378	-0.310	10(4D4G353
220	-	155660.7	-	-	-	0.645	10(4D2F402	-0.424	10(4G4G350	0.325	10(4G2F400	0.308	10(4P4P393
221	-	155871.4	-	-	-	-0.475	10(4D4F365	0.409	10(4D2F402	0.337	10(4G4G350	-0.300	10(4P4F366
222	-	155922.8	-	-	-	0.560	10(4D4D378	-0.355	10(4P4P393	0.353	10(4D4P365	-0.239	10(4P4D381
223	-	156339.2	-	-	-	-0.952	8(4F)6F173	-0.233	8(4D)4D186	0.139	8(2D)4D190	0.086	8(2D)4D188
224	-	156713.3	-	-	-	0.787	10(4D2D422	-0.398	10(4P2D423	-0.200	10(2G2D425	-0.177	10(2D2D437
225	-	157076.2	-	-	-	-0.941	8(4D)4D186	0.235	8(4F)6F173	-0.152	8(4D)2D199	0.144	8(4P)4F191
226	-	157123.3	-	-	-	-0.974	9(4G)2D310	-0.191	9(4D)2D311	-0.081	9(4F)2F288	-0.033	9(4G)2F288
227	-	157376.5	-	-	-	0.973	8(4D)2D199	-0.137	8(4D)4D186	0.122	8(4F)4F183	0.100	8(4P)4F191
228	-	157887.1	-	-	-	-0.700	7(3F)4D136	-0.391	7(3F)4D137	-0.314	7(3P)4D139	-0.270	7(3P)4D140
229	-	158062.2	-	-	-	0.855	9(4G)4F241	0.411	9(4G)4G226	0.253	9(4G)2F288	-0.125	9(4G)4F242
230	-	158075.5	-	-	-	-0.684	9(4G)4G226	-0.497	9(4G)2F288	0.487	9(4G)4F241	0.108	9(4G)4G227
231	-	158170.3	-	-	-	0.560	7(3P)4F132	0.478	7(3P)4F133	0.455	7(3P)4F129	-0.366	7(3P)4D136
232	-	158189.6	-	-	-	0.767	9(4G)2F288	-0.576	9(4G)4G226	0.199	9(4P)2F291	-0.144	9(4D)2F290
233	-	158271.6	-	-	-	0.742	8(2D)4D190	-0.435	8(2F)4F184	0.416	8(2D)4D188	0.196	8(4F)4F183
234	-	158302.1	-	-	-	0.642	7(3F)4P142	-0.461	7(3P)4P145	-0.388	7(3P)4P146	0.359	7(3F)4P143
235	-	158557.3	-	-	-	0.963	10(4F6G335	-0.145	10(2D4F373	-0.106	10(4F6F337	-0.095	10(4G6G334
236	-	158678.9	-	-	-	-0.869	7(3F)4G123	-0.490	7(3F)4G124	0.033	7(3P)4F132		
237	-	158847.8	-	-	-	-0.934	8(4F)4F183	0.205	8(2D)2D205	-0.175	8(2F)4F184	0.128	8(4D)2D199
238	-	158990.0	-	-	-	0.817	7(3F)2F149	0.471	7(3F)2F150	0.195	7(3P)2F152	0.163	7(3P)2F153
239	-	159113.6	-	-	-	0.490	7(3P)4F129	-0.398	7(3P)4D139	-0.348	7(3P)4D140	-0.289	7(3F)4P142
240	-	159299.8	-	-	-	0.552	10(2D4D386	0.523	10(2D4D382	0.335	10(2D4D384	-0.209	10(4P4D380
241	-	159376.5	-	-	-	-0.505	7(3P)4F129	0.354	7(3P)4F132	0.300	7(3P)4F133	0.285	7(3P)2D163
242	-	159428.2	-	-	-	0.544	7(3P)2F152	0.469	7(3P)2F153	0.324	7(3P)4D139	0.285	7(3P)4D140
243	-	159461.9	-	-	-	0.852	9(4G)4D259	-0.335	9(4P)4D265	-0.247	9(4P)2D313	-0.238	9(4D)4D263
244	-	159722.4	-	-	-	-0.571	10(2F4G357	0.407	10(2D2F418	-0.303	10(2F2F408	0.268	10(2D4F373
245	-	159828.8	-	-	-	-0.696	8(2F)4F184	0.426	8(2D)2D205	-0.358	8(2D)4D190	0.239	8(2D)2D201
246	-	159846.7	-	-	-	0.431	7(3P)4P145	-0.390	7(3P)4D139	0.363	7(3P)4P146	-0.343	7(3P)4D140
247	-	159853.4	-	-	-	-0.900	9(4P)2D313	-0.288	9(4D)2D312	-0.242	9(4G)4D259	-0.097	9(4D)2F290
248	-	159993.0	-	-	-	-0.483	7(3P)2D160	0.392	7(3P)2D163	0.342	7(3P)2D164	-0.316	7(3P)2F152
249	-	160471.3	-	-	-	-0.628	8(2D)2D205	-0.517	8(2F)4F184	0.378	8(2F)2F196	-0.352	8(2D)2D201
250	-	160590.6	-	-	-	0.709	10(4F6F337	-0.444	10(2D4F373	-0.248	10(2D4F371	0.226	10(2D2F418
251	-	160617.7	-	-	-	-0.642	7(3P)2D160	-0.465	7(3P)2D163	-0.389	7(3P)2D164	-0.337	7(3P)2D161
252	-	160704.3	-	-	-	0.909	9(4P)4P280	0.278	9(4D)4P278	0.159	9(4P)4F247	-0.154	9(4P)4D265
253	-	160766.4	-	-	-	-0.887	9(4P)4F247	-0.265	9(4P)2F291	0.189	9(4P)4F245	0.178	9(4P)4P280
254	-	160825.0	-	-	-	0.585	10(4F6F337	0.456	10(2D4F373	0.250	10(2D4P371	0.227	10(4D4D379
255	-	161044.0	-	-	-	0.696	10(4F6D340	0.309	10(4D4D379	0.235	10(4D4P391	0.218	10(2F4G357
256	-	161044.7	-	-	-	-0.909	9(4P)2F291	0.277	9(4P)4F247	0.214	9(4G)2F288	-0.101	9(4D)4F245
257	-	161160.6	-	-	-	0.611	10(4F6D340	-0.414	10(4D4D379	-0.326	10(2F4G357	-0.212	10(4P4P394
258	-	161376.5	-	-	-	-0.498	10(2F4G357	-0.389	10(2D4F373	0.290	10(2F2F408	0.269	10(4P4P394
259	-	161725.3	-	-	-	0.487	10(4P4P394	-0.439	10(4D4D379	0.423	10(4D4P391	-0.346	10(2D4P397
260	-	161798.9	-	-	-	-0.871	8(2F)2P196	-0.338	8(2D)2D205	-0.186	8(2D)2D201	-0.178	8(2D)2D204
261	-	161828.1	-	-	-	0.864	9(4P)4D265	0.278	9(4G)4D259	-0.244	9(4D)4D263	0.180	9(4P)4P280
262	-	162447.8	-	-	-	-0.631	10(2F4P369	0.379	10(2D4P397	0.309	10(4P4P394	-0.213	10(2F4D382
263	-	162499.9	-	-	-	-0.920	9(4F)6F213	-0.271	9(4F)6H208	-0.155	9(2I)4G232	-0.121	9(4F)6G210
264	-	162508.2	-	-	-	-0.618	9(4F)6H208	-0.603	9(2I)4G232	0.340	9(4F)6F213	-0.200	9(4F)6G210
265	-	162592.7	-	-	-	-0.715	9(2I)4G232	0.653	9(4F)6H208	0.109	9(4F)4G229	-0.103	9(2F)4G236
266	-	162679.8	-	-	-	0.987	9(4F)6E222	-0.081	9(2D)4P286	-0.050	9(2D)4F284	0.050	9(4D)4F278
267	-	162757.9	-	-	-	0.946	9(4F)6G210	-0.200	9(4F)6H208	-0.128	9(2I)4G232	-0.109	9(2D)4F256
268	-	162785.3	-	-	-	-0.514	10(2D4F397	-0.502	10(2F4F369	-0.392	10(4P4P394	-0.284	10(2D4P395
269	-	163784.4	-	-	-	-0.459	10(2F4D382	0.349	10(2D4D386	0.328	10(2F4F369	0.328	10(2D2D436
270	-	163813.2	-	-	-	0.945	9(4D)2F290	0.152	9(4G)2F288	-0.136	9(4D)2D312	0.130	9(2F)4G236
271	-	164115.3	-	-	-	0.471	10(2F4D382	0.382	10(2D2D436	0.382	10(2F2D427	0.314	10(2F2D426
272	-	164118.4	-	-	-	0.926	9(4D)4G230	0.251	9(2D)4G240	0.142	9(2D)4G238	-0.142	9(4D)4G231
273	-	164269.0	-	-	-	0.890	9(4D)4P278	-0.240	9(4P)4P280	0.154	9(2D)4D273	-0.139	9(4D)4F279
274	-	164373.9	-	-	-	-0.398	9(2D)4G240	0.394	9(4F)6D219	-0.391	9(2D)4D273	-0.339	9(2F)4G236
275	-	164386.7	-	-	-	-0.624	10(2H4G354	0.372	10(2G4G356	-0.357	10(4F4G351	0.320	10(2F4G357
276	-	164446.3	-	-	-	0.501	9(4F)6D219	0.477	9(2D)4G240	-0.358	9(2D)4D273	0.349	9(2F)4G236
277	-	164461.0	-	-	-	0.607	10(2F2F408	0.414	10(2D2F418	0.363	10(2F2F409	0.207	10(2D2F414
278	-	164484.4	-	-	-	-0.917	9(4D)4F245	-0.206	9(4P)4F247	0.142	9(4D)4F246	0.142	9(4P)4D265
279	-	164722.1	-	-	-	0.684	9(4F)6D219	0.340	9(2D)4D273	-0.302	9(2F)4F252	-0.256	9(2D)4F256
280	-	164807.1	-	-	-	-0.862	9(4D)2D312	0.286	9(4D)2D313	-0.188	9(4F)6D219	0.172	9(4G)2D310
281	-	164861.3	-	-	-	0.739	10(4F4G351	0.544	10(2G4G356	-0.148	10(2F2D426	-0.139	10(2H4G

297	-	166861.7	-	-	-0.549	9(2F)4G236	0.536	9(4F)4G229	0.277	9(2D)4G240	0.256	9(2H)4G233
298	-	167127.1	-	-	-0.517	10(2D2D437	0.486	10(2F2F409	-0.314	10(2D2D436	-0.289	10(2D2D431
299	-	167214.3	-	-	-0.870	6(1D)2F101	-0.489	6(1D)2F100				
300	-	167234.8	-	-	-0.751	9(4F)4P277	0.368	9(2F)4P282	-0.271	9(2D)4P286	-0.174	9(2D)4P284
301	-	167563.5	-	-	-0.744	9(4F)4F244	0.397	9(2H)4F249	0.281	9(2F)4F252	0.206	9(2D)2F307
302	-	167603.8	-	-	-0.834	10(4F4D375	-0.267	10(2F4D383	-0.237	10(4D4D379	-0.160	10(4F4F361
303	-	167696.6	-	-	-0.637	9(2D)2F307	-0.356	9(2D)2F303	-0.302	9(2D)2D327	-0.293	9(2F)4G236
304	-	167945.9	-	-	-0.547	9(2D)2D327	0.367	9(2F)2D319	0.358	9(2F)2F299	-0.324	9(4F)4F244
305	-	168260.7	-	-	0.490	10(4F2F401	0.417	10(2D2D437	0.415	10(2F2F409	-0.284	10(2D2F419
306	-	168518.3	-	-	-0.871	6(1D)2D112	-0.479	6(1D)2D111	-0.082	6(3F)2D103	-0.036	6(3F)2D104
307	-	168553.9	-	-	0.975	8(2F)4F185	-0.161	8(4F)4F182	-0.105	8(2F)2F195	0.082	8(4F)2F194
308	-	168563.5	-	-	0.575	10(2G4F368	0.567	10(4F4F362	-0.358	10(4F4F361	-0.219	10(4F2D421
309	-	168777.3	-	-	0.378	10(4F2F401	-0.345	10(2F4G358	-0.327	10(2G4F368	-0.288	10(4F4G351
310	-	168791.8	-	-	0.816	9(2F)2F299	0.280	9(2D)2F307	0.268	9(2F)2F298	0.162	9(2D)2D326
311	-	169047.9	-	-	-0.403	10(2F4G358	-0.394	10(4F4F362	0.374	10(2G4G356	-0.303	10(4F4G351
312	-	169195.8	-	-	-0.800	9(2F)4P282	-0.504	9(4F)4P277	0.197	9(2D)4P286	-0.152	9(4F)4P281
313	-	169324.3	-	-	0.544	10(2G4F368	0.401	10(4F2D421	-0.381	10(4F4F362	0.300	10(2F2D427
314	-	169579.2	-	-	0.369	10(2H2F403	-0.331	10(2G2F406	-0.316	10(4F2F401	0.301	10(2F2F409
315	-	169642.0	-	-	0.972	8(4F)4F182	0.161	8(2F)4F185	0.102	8(2F)2F198	-0.066	8(2F)2F197
316	-	169954.6	-	-	0.895	8(4F)2F194	-0.415	8(2F)2F198	-0.107	8(2F)2F197	-0.087	8(2F)4F185
317	-	169969.2	-	-	-0.697	10(4F4G352	-0.316	10(2G2F406	-0.216	10(4F4F362	0.198	10(4F2F401
318	-	170448.8	-	-	0.912	9(2H)4G233	-0.286	9(2G)4G235	0.136	9(2F)4G236	-0.125	9(4F)4G229
319	-	170524.6	-	-	0.563	10(4F4P389	0.403	10(4F4G352	-0.372	10(2G2F406	0.238	10(4F2F401
320	-	170599.7	-	-	-0.698	10(4F4P389	-0.269	10(2G2F406	-0.268	10(2F2D427	0.255	10(4F4G352
321	-	170637.4	-	-	-0.892	8(2F)2F198	-0.420	8(4F)2F194	0.107	8(4F)4F182	-0.086	8(2F)2F197
322	-	170784.4	-	-	-0.829	10(2F4D383	0.265	10(4F4D375	0.188	10(2D4D385	-0.178	10(4F2D421
323	-	171022.7	-	-	-0.782	9(2F)2D319	-0.357	9(2D)2D327	0.250	9(2G)2D317	-0.202	9(2F)2D318
324	-	171436.2	-	-	-0.926	9(2G)4D268	-0.207	9(2H)4F249	-0.157	9(2F)4D270	0.127	9(2F)2D319
325	-	171689.8	-	-	-0.488	10(4F2D421	0.480	10(2F2D427	-0.264	10(2F2D426	0.229	10(2F4D383
326	-	172199.5	-	-	-0.583	10(2F4G358	-0.547	10(2H4G354	-0.375	10(2G4G356	0.312	10(2F4F370
327	-	172326.5	-	-	0.738	9(2G)4F251	0.448	9(2H)2F293	-0.265	9(2F)4F253	0.215	9(2G)2F297
328	-	172364.8	-	-	-0.539	9(2H)2F293	0.458	9(2G)4F251	-0.345	9(2D)2D326	-0.294	9(2G)2F297
329	-	172462.9	-	-	-0.804	10(2F4F370	-0.248	10(2F4G358	0.216	10(4F4F362	-0.194	10(2H4G354
330	-	172651.9	-	-	0.568	9(2D)2D326	-0.325	9(2H)2F293	0.322	9(2D)2D322	-0.290	9(2F)2F298
331	-	172784.0	-	-	0.602	10(4F4D376	0.360	10(2G2F406	0.283	10(2F2F411	0.275	10(4D4D379
332	-	172805.0	-	-	0.720	9(2H)4F249	-0.320	9(2G)4G235	0.282	9(4F)4F244	-0.227	9(2G)4D268
333	-	172928.2	-	-	-0.521	10(4F4D376	0.452	10(2G2F406	0.275	10(2H2F403	0.239	10(2F2F411
334	-	173032.1	-	-	-0.650	9(2D)2F306	-0.363	9(2D)2F302	-0.343	9(2F)2F298	-0.256	9(2D)2D326
335	-	173206.9	-	-	-0.825	9(2G)4G235	-0.318	9(2H)4F249	0.181	9(4F)4G229	-0.167	9(2H)4G233
336	-	173420.1	-	-	0.553	10(2F2F411	-0.378	10(2G2F407	-0.370	10(2F2F410	-0.352	10(2H2F403
337	-	173842.1	-	-	-0.513	10(2G2D425	0.331	10(2F2D411	-0.329	10(2D2D438	0.329	10(2F2D429
338	-	174033.9	-	-	-0.840	9(2F)2D318	-0.237	9(2D)2D326	0.227	9(2F)2D319	0.219	9(2F)2F298
339	-	174113.3	-	-	-0.440	10(2F2F410	0.427	10(2F2D428	0.320	10(2D2D438	-0.291	10(2F2F412
340	-	174440.8	-	-	0.670	9(2F)2F298	-0.311	9(2F)4G237	-0.304	9(2F)2F299	-0.274	9(2D)2F306
341	-	174834.7	-	-	-0.908	9(2F)4G237	-0.248	9(2F)2F298	0.167	9(2H)4G233	0.147	9(2G)4G235
342	-	175110.0	-	-	-0.775	9(2G)2D317	0.375	9(2F)2D321	-0.239	9(2G)2D316	0.192	9(2F)2D320
343	-	175189.2	-	-	-0.558	10(2D2D438	-0.429	10(2F2F412	-0.405	10(2F2F410	-0.285	10(2D2D432
344	-	175238.4	-	-	0.533	9(4F)2D311	-0.529	9(2G)2F297	0.361	9(2H)2F293	-0.352	9(2F)2F301
345	-	175423.6	-	-	0.912	9(2F)4F253	0.318	9(2G)4F251	-0.129	9(4F)2D311	-0.114	9(2F)2F298
346	-	175463.6	-	-	-0.985	8(2F)2F197	0.114	8(2F)2F198	-0.074	8(4F)4F182	-0.065	8(4F)2F194
347	-	175588.7	-	-	-0.891	10(2S4P399	-0.358	10(2D4P396	0.125	10(4D4P391	0.114	10(4D4P390
348	-	175958.5	-	-	-0.635	9(4F)2D311	-0.453	9(2F)4D270	-0.346	9(2G)2F297	-0.290	9(2F)4P283
349	-	176148.4	-	-	-0.725	9(2F)4P283	0.540	9(2F)4D270	-0.300	9(4F)4P276	0.123	9(4F)4P277
350	-	176184.7	-	-	-0.594	9(2F)4D270	-0.496	9(2F)4P283	0.477	9(4F)2D311	0.186	9(2G)2F297
351	-	176204.6	-	-	-0.652	10(2G2D425	-0.542	10(2F2D429	-0.238	10(2F2D428	-0.220	10(2F2D426
352	-	176728.8	-	-	0.930	9(4F)4F243	-0.184	9(4F)4G228	-0.159	9(4F)4P276	0.157	9(2F)4D270
353	-	176878.4	-	-	0.894	9(4F)4P276	-0.299	9(2F)4P283	-0.173	9(2G)2D316	0.151	9(2F)4D270
354	-	177026.1	-	-	-0.949	9(4F)4G228	-0.189	9(4F)4F243	0.136	9(4F)4G229	-0.115	9(2F)4G237
355	-	177153.8	-	-	0.937	10(4F4F363	-0.162	10(2F4F370	0.160	10(4G4F360	-0.159	10(4D4F365
356	-	177235.9	-	-	0.773	9(4F)2F289	-0.547	9(2H)2F292	0.165	9(2G)2F296	-0.105	9(2G)2D317
357	-	177861.6	-	-	0.658	10(2G2F407	-0.534	10(2H2F403	-0.308	10(4F2F401	0.185	10(2F2F410
358	-	178307.4	-	-	-0.780	9(2F)2D321	-0.418	9(2G)2D317	-0.247	9(2F)2D320	0.200	9(2G)2D316
359	-	178710.9	-	-	-0.949	9(4F)4D261	0.162	9(4F)4D262	-0.135	9(2G)2D316	-0.118	9(2F)2D321
360	-	178867.8	-	-	0.878	5(1D)2D57	0.478	5(1D)2D56				
361	-	179554.9	-	-	0.856	9(2G)2D316	0.237	9(2F)2D320	0.206	9(2F)2D321	0.194	9(2S)2D331
362	-	179797.4	-	-	-0.601	9(2G)2F296	-0.542	9(2F)2F301	0.482	9(2G)2F297	0.137	9(4F)2F289
363	-	180157.1	-	-	-0.481	10(2S2D441	-0.458	10(2F2D428	0.371	10(2F2F412	0.354	10(2F2D429
364	-	180275.1	-	-	-0.483	10(2F2F412	0.463	10(2F2D429	-0.435	10(2F2D428	0.371	10(2F2F410
365	-	180417.4	-	-	-0.998	8(2D)4D189	-0.038	8(2F)2F197	0.035	8(2F)4F185		
366	-	180603.3	-	-	0.969	9(2S)4D275	-0.187	9(2F)4D270	0.086	9(2G)4D268	-0.052	9(2D)4D272
367	-	180739.2	-	-	0.721	10(2S2D441	0.394	10(2F2F412	-0.262	10(2F2F410	-0.223	10(2D2D434
368	-	180951.0	-	-	0.621	9(2H)2F292	0.444	9(4F)2F289	-0.337	9(2H)2F293	0.322	9(2G)2F296
369	-	181710.6	-	-	-0.580	9(2F)2F301	0.561	9(2G)2F296	-0.355	9(2H)2F292	-0.307	9(4F)2F289
370	-	182357.1	-	-	0.990	8(2D)2D203	0.122	8(2D)2D202	0.057	8(2F)2F197	-0.036	8(2F)2F198
371	-	182630.5	-	-	-0.939	10(2D4F372	0.197	10(2D4D385	-0.192	10(2G4F366	-0.134	10(2G4F367
372	-	183266.6	-	-	-0.915	9(2F)2F300	0.214	9(2F)2F301	-0.207	9(2G)2F296	0.195	9(2G)2F297
373	-	183714.0	-	-	0.766	10(2D2F413	0.313	10(2D2F416	0.309	10(2D2F417	-0.246	10(2H2F403
374	-	183737.8	-	-	-0.892	10(2D4D385	0.207	10(2D4P396	-0.194	10(2D4F372	-0.183	10(2F2F413
375	-	183953.1	-	-	-0.855	9(2F)2D320	0.347	9(2S)2D331	0.279	9(2F)2D321	-0.122	9(2G)2D317
376	-	184221.4	-	-	0.830	9(2S)2D331	0.332	9(2S)2D330	-0.248	9(2F)2D321	0.217	9(2F)2D320
377	-	184549.8	-	-	0.867	10(2D4P396	-0.370	10(2S4P399	0.238	10(2D4D385	-0.119	10(2D2D433
378	-	185946.7	-	-	-0.823	10(2D2D433	0.391	10(2D2F416	-0.197	10(2D2F417	0.136	10(2G2D424
379	-	186571.8	-	-	-0.725	10(2D2F416	-0.469	10(2D2D433	0.267	10(2D2F417	0.197	10(2G2F404
380	-	186781.9	-	-	0.993	9(2D)4G239	-0.058	9(2G)4G234	0.051	9(2F)4G237	0.048	9(2D)4F255
381	-	186958.7	-	-	0.993	9(2D)4F255	0.053	9(2H)4F249	-0.047	9(2D)4G239	-0.040	9(2F)2F300
382	-	187264.3	-	-	-0.985	9(2D)4D272	0.084	9(2G)4D267	-0.073	9(2S)4D275	0.056	9(2G)4D268
383	-	187284.6	-	-	-0.992	8(2D)2D202	0.121	8(2D)2D203				
384	-	187614.2	-	-	-0.872	7(1D)2F158	-0.489	7(1D)2F157				
385	-	188102.0	-	-	-0.975	9						

49	104705.420	104748.8	43.4	5D (5D)6D	-0.715 7(5D)4D124	-0.489 7(5D)6P105	-0.429 7(5D)6D104	-0.212 7(5D)6P103
50	-	104859.5	-	-	-0.534 6(3F)4F 65	-0.455 6(3H)4F 65	-0.342 6(3P)4F 71	0.304 6(3F)4F 67
51	104873.230	104910.3	37.0	5D (5D)4D	0.650 7(5D)4D124	-0.602 7(5D)6P105	-0.386 7(5D)6D104	0.183 7(5D)6G102
52	105065.630	105001.4	-64.2	5D (5D)6G	0.938 7(5D)6G102	0.201 7(5D)6F103	0.191 7(5D)4G110	0.136 7(5D)6D104
53	-	105005.2	-	-	0.829 6(3H)2G 79	-0.276 6(3F)2G 82	0.234 6(3F)4D 75	0.218 6(3H)4F 65
54	-	105182.4	-	-	0.746 6(3F)4D 75	-0.427 6(3F)4D 74	-0.301 6(3H)2G 79	0.221 6(3F)4G 62
55	105291.010	105296.2	5.2	4D (3F)4G	-0.736 6(3F)4G 62	0.432 6(3F)4G 61	0.300 6(3H)4G 59	0.247 6(3H)4G 57
56	105449.540	105439.3	-10.2	5D (5D)4G	0.948 7(5D)4G110	-0.219 7(5D)4F116	-0.204 7(5D)6G102	-0.091 7(5D)4D124
57	105589.420	105583.0	-6.4	4D (3F)4H	0.817 6(3F)4H 57	-0.444 6(3F)4H 56	0.261 6(3F)4G 62	-0.149 6(3F)4G 61
58	-	105757.8	-	-	0.786 6(3F)2F 93	-0.469 6(3F)2F 92	-0.225 6(3G)2F 91	0.152 6(3P)2F 96
59	-	106100.9	-	-	-0.949 7(5D)4F116	-0.237 7(5D)4G110	-0.168 7(5D)4D124	0.067 7(3H)4F117
60	-	106667.2	-	-	-0.575 6(3F)4F 68	0.536 6(3H)4F 65	-0.374 6(3G)4F 66	0.310 6(3F)4F 67
61	106836.000	106836.0	0.0	4P2(7P)8P	0.999 10(6S8P)306	0.035 10(6S6P)317	-	-
62	-	107013.0	-	-	-0.741 6(3F)2G 82	0.417 6(3F)2G 81	-0.304 6(3H)2G 79	0.201 6(3G)2G 80
63	-	108396.4	-	-	-0.798 4(1G)2G 33	0.591 4(1G)2G 32	0.074 4(3F)2F 35	-0.073 4(3H)4H 25
64	108804.667	108856.0	51.4	5S (3D)4D	0.999 4(3D)4D 30	0.031 4(1F)2F 36	-	-
65	-	109161.3	-	-	0.925 6(3G)4D 73	-0.316 6(3G)4G 60	-0.100 6(3H)4F 65	0.100 6(3F)4D 75
66	-	109236.8	-	-	0.865 6(3G)4G 60	0.319 6(3G)4D 73	-0.292 6(3G)4H 55	0.121 6(3F)4F 68
67	-	109377.7	-	-	-0.933 6(3G)4H 55	-0.302 6(3G)4G 60	0.099 6(3F)4H 57	-0.092 6(3F)2G 82
68	109463.220	109485.3	22.1	4SD(7S)8D	1.000 9(6S)8D183	-	-	-
69	-	110494.9	-	-	-0.865 6(3G)2G 80	0.278 6(1G)2G 86	0.249 6(3G)2F 91	-0.193 6(1G)2G 85
70	-	111270.6	-	-	0.767 6(3G)2F 91	0.311 6(3G)4F 66	-0.263 6(3H)2F 90	0.234 6(1G)2F 98
71	-	111504.8	-	-	0.849 6(3G)4F 66	-0.279 6(3G)2F 91	0.249 6(3H)4F 65	-0.206 6(3F)4F 68
72	-	113790.8	-	-	-0.787 6(1I)2G 84	-0.462 6(1G)2G 86	0.375 6(1G)2G 85	-0.083 6(1G)2F 98
73	-	113875.5	-	-	-0.716 6(1G)2F 98	0.585 6(1G)2F 97	0.229 6(3D)2F 94	0.212 6(3G)2F 91
74	-	113929.1	-	-	-0.991 9(6S)6D195	-0.100 9(6S)6D194	0.061 9(4G)6D196	0.035 9(4D)6D198
75	-	115635.6	-	-	0.684 6(3D)2G 83	-0.403 6(1G)2G 86	0.371 6(1I)2G 84	0.311 6(1G)2G 85
76	-	115775.3	-	-	-0.983 10(6S6P)317	-0.156 10(6S6D)313	-0.077 10(4D6P)318	0.049 10(4P6P)319
77	-	116194.4	-	-	0.984 6(3D)4G 63	-0.097 6(3G)4G 60	0.070 6(3D)4F 69	0.065 6(3D)2G 83
78	-	116351.5	-	-	0.964 6(3D)4D 76	0.221 6(3D)4F 69	-0.079 6(3G)4D 73	-0.067 6(3D)2F 94
79	-	116615.5	-	-	0.961 6(3D)4F 69	-0.227 6(3D)4D 76	0.072 6(3H)4F 65	-0.071 6(3D)4G 63
80	-	117845.7	-	-	-0.930 6(3D)2F 94	0.231 6(3G)2F 91	0.161 6(1D)2F100	0.128 6(1G)2F 97
81	-	117943.5	-	-	-0.982 10(6S6D)313	0.154 10(6S6P)317	0.093 10(4D6D)315	0.048 10(4P6D)316
82	-	118685.8	-	-	-0.658 6(3D)2G 83	0.367 6(1I)2G 84	-0.359 6(1D)2G 88	-0.322 6(1G)2G 86
83	-	121568.4	-	-	0.995 4(1F)2F 36	-0.069 4(3F)4F 27	-0.038 4(3F)4F 28	0.035 4(3F)2F 34
84	-	122193.5	-	-	-0.986 5(3H)4H 38	-0.091 5(3G)4G 39	-0.070 5(3G)2G 44	0.063 5(3F)2F 48
85	-	122231.6	-	-	0.782 6(1D)2G 88	-0.435 6(1D)2G 89	-0.294 6(3D)2G 83	0.175 6(1I)2G 84
86	-	122395.0	-	-	-0.845 6(1D)2F101	0.474 6(1D)2F101	-0.147 6(3D)2F 94	0.095 6(3G)2F 91
87	-	123308.1	-	-	-0.808 5(3F)4F 41	0.437 5(3F)4F 40	-0.300 5(3F)2F 48	0.169 5(3F)2F 47
88	-	123402.0	-	-	0.627 7(3P)4D130	-0.549 7(3P)4D129	-0.384 7(3P)4F123	0.328 7(3P)4F122
89	-	123561.9	-	-	0.647 7(3P)2F148	-0.554 7(3P)2F147	0.341 7(3P)4F123	-0.291 7(3P)4F122
90	-	123627.2	-	-	-0.807 5(3F)2F 48	0.438 5(3F)2F 47	0.317 5(3F)4F 41	-0.165 5(3F)4F 40
91	-	124390.4	-	-	-0.438 7(3H)4F117	-0.426 7(3H)2F142	0.388 7(3P)4F123	0.353 7(3P)4D130
92	-	124539.2	-	-	0.928 7(3H)4G111	-0.242 7(3H)4H106	0.138 7(3F)4G114	0.110 7(3H)2G131
93	-	124560.9	-	-	-0.956 7(3H)4H106	-0.218 7(3H)4G111	-0.078 7(3F)4H109	-0.075 7(3G)4G112
94	-	124736.3	-	-	0.845 7(3H)2F142	-0.242 7(3P)2F148	0.222 7(3P)2F147	0.184 7(3P)4F123
95	-	125113.7	-	-	-0.700 7(3H)4F117	-0.424 7(3F)4F120	-0.320 7(3P)4F123	0.273 7(3P)4F122
96	-	125138.3	-	-	-0.930 7(3H)2G131	0.237 7(3F)2G134	-0.144 7(3F)2G133	-0.109 7(3H)4F117
97	-	125676.9	-	-	0.827 7(3F)4D127	-0.472 7(3F)4D126	0.133 7(3H)4F117	0.130 7(3P)4G114
98	-	125785.8	-	-	-0.789 7(3F)4G114	0.453 7(3F)4G113	0.232 7(3F)4H109	0.170 7(3H)4G111
99	-	126019.8	-	-	-0.821 7(3F)4H109	0.448 7(3F)4H108	-0.256 7(3F)4G114	0.143 7(3F)4G113
100	-	126038.1	-	-	-0.800 7(3F)2F145	0.469 7(3F)2F144	0.172 7(3G)2F143	0.170 7(3F)4H109
101	-	126485.7	-	-	-0.730 7(3F)4F120	0.429 7(3H)4F117	0.403 7(3F)4F119	-0.185 7(3G)4F118
102	-	126634.0	-	-	0.962 5(3G)4G 39	0.200 5(3G)2G 44	0.121 5(3F)4F 41	0.089 5(3F)2F 48
103	-	126961.3	-	-	0.804 7(3F)2G134	-0.451 7(3F)2G133	0.257 7(3H)2G131	-0.147 7(3G)2G132
104	-	127060.1	-	-	-0.966 5(3G)2G 44	0.208 5(3G)4G 39	-0.119 5(3F)2F 48	0.063 5(3F)4F 41
105	-	128648.5	-	-	0.878 4(3F)4F 27	0.470 4(3F)4F 28	0.077 4(1F)2F 36	-
106	-	129539.2	-	-	0.877 4(3F)2F 34	0.475 4(3F)2F 35	-0.041 4(1F)2F 36	-0.040 4(1G)2G 32
107	-	129547.7	-	-	-0.985 7(3G)4D125	0.094 7(3H)4F117	-0.083 7(3G)2F143	-0.068 7(3F)4D127
108	-	129666.3	-	-	-0.913 7(3G)4G112	0.337 7(3G)4H107	-0.099 7(3G)2G132	-0.099 7(3F)4F120
109	-	129796.3	-	-	0.990 9(6S)6D194	-0.101 9(6S)6D195	0.096 9(6S)4D245	-
110	-	129817.0	-	-	-0.926 7(3G)4H107	-0.344 7(3G)4G112	-0.073 7(3F)2G134	0.067 7(3F)4H109
111	-	130041.0	-	-	0.995 6(1F)2G 87	-0.043 6(1D)2G 88	-0.041 6(3F)4G 61	0.034 6(1D)2G 89
112	-	130223.6	-	-	0.991 9(6S)4D245	-0.097 9(6S)6D194	-0.063 9(4G)4D246	-0.035 9(4D)4D250
113	-	130288.7	-	-	-0.983 6(1F)2F 99	-0.081 6(3F)2F 92	-0.081 6(3P)2F 95	0.054 6(3G)2F 91
114	-	130520.7	-	-	0.751 7(3G)2G132	-0.484 7(3G)2F143	-0.308 7(3G)4F118	-0.150 7(1G)2G138
115	-	130620.3	-	-	0.868 7(3G)4F118	0.401 7(3G)2G132	0.119 7(3H)4F117	-0.106 7(3G)4F120
116	-	130879.5	-	-	-0.793 7(3G)2F143	-0.411 7(3G)2G132	0.298 7(3G)4F118	0.169 7(3H)2F142
117	-	131855.5	-	-	-0.798 5(1G)2G 46	0.592 5(1G)2G 45	-0.072 5(3H)4H 38	0.069 5(3F)2F 48
118	-	132504.8	-	-	0.999 5(3D)4D 43	0.031 5(1F)2F 49	-	-
119	-	134013.4	-	-	0.762 7(1G)2F150	-0.609 7(1G)2F149	-0.121 7(3G)2F143	-0.114 7(3D)2F146
120	-	134130.5	-	-	0.689 7(1I)2G136	0.557 7(1G)2G138	0.442 7(1G)2G137	0.080 7(3G)2G132
121	-	135245.3	-	-	-0.650 7(1I)2G136	0.458 7(1G)2G138	-0.403 7(3D)2G135	-0.354 7(1G)2G137
122	-	135996.2	-	-	0.801 4(1G)2G 32	0.596 4(1G)2G 33	0.037 4(3F)2F 34	-
123	-	136647.1	-	-	0.989 7(3D)4G115	0.096 7(3D)4F121	-0.056 7(3G)4G112	0.053 7(1D)2G140
124	-	136751.3	-	-	-0.924 7(3D)4F128	-0.360 7(3D)4F121	0.084 7(3D)2F146	-0.055 7(1D)2F152
125	-	136907.2	-	-	-0.921 7(3D)4F121	0.367 7(3D)4D128	0.095 7(3D)4G115	0.038 7(3D)2F146
126	-	137141.0	-	-	-0.766 6(3F)4D 74	-0.431 6(3F)4D 75	-0.308 6(3P)4D 77	-0.267 6(3D)4D 78
127	-	137376.5	-	-	-0.879 6(3F)4H 56	-0.472 6(3F)4H 57	-	-
128	-	137516.2	-	-	0.966 7(3D)2F146	-0.132 7(3G)2F143	0.108 7(3D)2G135	-0.077 7(1D)2F152
129	-	137623.0	-	-	0.592 6(3P)4F 70	0.506 6(3P)4F 71	0.490 6(3P)4F 67	0.267 6(3F)4F 68
130	-	137703.1	-	-	-0.999 8(4G)6G155	-0.032 8(2F)4F166	-	-
131	-	137710.5	-	-	-0.894 7(3D)2G135	0.263 7(1I)2G136	-0.198 7(1G)2G138	0.159 7(1G)2G137
132	-	138505.2	-	-	0.862 6(3F)4G 61	0.495 6(3F)4G 62	-0.053 6(3F)2F 92	0.044 6(1F)2G 87
133	-	139161.3	-	-	0.791 6(3F)2F 92	0.473 6(3F)2F 93	0.217 6(3F)2G 81	0.141 6(1G)2F 97
134	-	139186.6	-	-	0.995 10(4G6G)307	-0.061 10(4G6G)308	0.043 10(2F4G)336	0.038 10(4G4G)327
135	-	139298.8	-	-	-0.479 6(3P)4D 77	0.434 6(3F)4F 67	-0.426 6(3P)4D 78	-0.371 6(3P)2G 81
136	-	139322.9	-	-	-0.753 6(3F)2G 81	-0.429 6(3F)2G 82	0.246 6(3F)2F 92	0.228 6(3P)4D 77
137	-	139764.4	-	-	-0.521 6(3F)4F 67	-0.417 6(3P)4D 77	0.397 6(3P)4F 70	-0.372 6(3P)4D 78
138	-	140062.6	-	-	-0.967 10(4G6F)310	0.171 10(4F6F)311	0.146 10(4G6G)308	-0.074 10(4D6F)312
139	-	140138.5	-	-	-0.997 8(4G)4G161	-0.061 8(4G)4G160	-	-
140	-	140380.2	-	-	0.704 6(3P)2F 95	0.612 6(3P)2F 96	0.160 6(1G)2F 97	-0.135 6(3F)2F 92
141	-	140549.4	-	-	0.980 8(4P)6P158	0.183 8(4D)6D157	-0.047 8(2D)4D172	-0.037 8(4D)4D169
142	-	141923.5	-	-	-0.888 10(4P6P)319	0.406 10(4D6P)318	-0.143 10(4D6P)318	-0.079 10(6S6P)317
143	-	142034.4	-	-	0.854 7(1D)2G140	-0.479 7(1D)2G141	-0.146 7(3D)2G135	0.062 7(1I)2G136
144	-	142043.1	-	-	0.978 10(4G6G)308	0.146 10(4G6G)310	0.101 10(4F6G)309	0.055 10(4G6G)307
145	-	142322.3	-	-	-0.862 7(1D)2F152	0.483 7(1D)2F153	-0.085 7(3D)2F146	0.052 7(3D)4F121
146	-	143552.8	-	-	-0.966 10(4D6P)316	-0.198 10(4D6P)312	-0.064 10(4D6P)315	0.058 10(4D6P)316
147	-	143748.2	-	-	0.996 9(4G)6H185	-0.054 9(4F)6H186	-0.053 9(4G)6I184	0.037 9(2F)4G223
148	-	143903.6	-	-				

149	-	143948.2	-	-	-0.997	9(4G)6I184	-0.054	9(4G)6H185	-0.045	9(2F)4H211		
150	-	143955.4	-	-	-0.991	9(4G)6F190	-0.117	9(4G)6G187	-0.037	9(4F)6F191		
151	-	144029.9	-	-	-0.992	9(4G)6G187	0.119	9(4G)6F190				
152	-	144825.7	-	-	-0.682	10(4G4H320)	0.446	10(4G4H321)	0.396	10(4G4G327)	-0.253	10(4G4F338)
153	-	144965.1	-	-	-0.560	10(4G4F338)	-0.460	10(4G4F339)	0.415	10(4G4H320)	0.316	10(4G4G327)
154	-	145038.5	-	-	0.996	5(1F)2F 49	-0.065	5(3F)4F 40	-0.036	5(3F)4F 41	0.036	5(3F)2F 47
155	-	145230.9	-	-	-0.784	6(1G)2G 85	-0.615	6(1G)2G 86	-0.043	6(1D)2G 89	-0.032	6(3F)2F 92
156	-	145367.0	-	-	0.896	9(4G)6D196	-0.353	9(4P)6D199	-0.249	9(4D)6D198	0.050	9(4P)6F193
157	-	145561.1	-	-	-0.781	10(4G4G327)	-0.352	10(4G4F338)	-0.289	10(4G4F339)	-0.245	10(4G4G328)
158	-	145968.8	-	-	0.894	10(4D6D315)	-0.308	10(4D6F312)	-0.231	10(4F6D314)	-0.150	10(4P6F319)
159	-	146237.6	-	-	-0.996	8(4D)4D169	-0.060	8(4D)4D168	-0.040	8(4F)4F165	-0.040	8(4P)6P158
160	-	146458.7	-	-	-0.895	10(4D6F312)	-0.284	10(4D6D315)	0.207	10(4P6D316)	-0.150	10(4P4D359)
161	-	146567.5	-	-	0.931	9(4P)6P202	0.294	9(4D)6P201	-0.140	9(4P)6D199	-0.089	9(4G)4D247
162	-	146706.6	-	-	0.960	9(4P)6F193	-0.186	9(4D)6F192	0.161	9(4D)6G189	-0.085	9(4P)6P202
163	-	146831.2	-	-	0.744	6(1G)2F 97	0.609	6(1G)2F 98	-0.160	6(3P)2F 95	-0.145	6(3P)2F 96
164	-	147048.2	-	-	-0.955	9(4G)4D247	-0.184	9(4D)4D251	-0.169	9(4G)4D246	-0.097	9(4P)6P202
165	-	147484.6	-	-	0.710	10(4P4D359)	-0.364	10(4G4D353)	0.359	10(4D4D356)	-0.203	10(4F4D355)
166	-	147706.5	-	-	-0.953	9(4G)4G214	-0.151	9(4D)4G218	-0.147	9(4G)4G213	-0.120	9(4P)6D199
167	-	147768.5	-	-	-0.873	9(4P)6D199	-0.291	9(4G)6D196	0.229	9(4D)6D198	-0.160	9(4D)6F192
168	-	147839.9	-	-	0.943	10(4G2G367)	-0.148	10(4G4H320)	0.122	10(4F2G368)	0.120	10(2I2G369)
169	-	148085.4	-	-	-0.929	9(4G)4F229	-0.224	9(4P)4F235	0.157	9(4D)4F233	-0.139	9(4G)4F228
170	-	148669.6	-	-	0.973	9(4G)4H204	0.156	9(2I)4H207	0.138	9(4G)4H203	0.058	9(2H)4H208
171	-	148903.0	-	-	0.879	10(4D6P318)	0.392	10(4P6P319)	-0.162	10(4G4D353)	-0.120	10(4P4D360)
172	-	149648.2	-	-	-0.898	9(4P)4D253	-0.303	9(4D)4D251	-0.162	9(4D)6P201	-0.155	9(4D)6F192
173	-	149663.4	-	-	0.806	10(4G4H321)	0.523	10(4G4H320)	-0.148	10(4F4H322)	-0.105	10(4G4D353)
174	-	149722.2	-	-	0.734	10(4G4D353)	0.356	10(4P4D359)	0.356	10(4P4D360)	0.186	10(4D4D357)
175	-	149914.9	-	-	0.622	10(4G4G328)	-0.563	10(4P4F345)	0.274	10(4D4F344)	-0.234	10(4G4F339)
176	-	149975.0	-	-	-0.934	9(4D)6G189	-0.236	9(4D)6F192	-0.191	9(4P)4F235	0.118	9(4P)6F193
177	-	150072.0	-	-	-0.704	10(4G4G328)	-0.497	10(4P4F345)	0.233	10(4D4F344)	0.222	10(4G4G327)
178	-	150137.1	-	-	0.997	7(1F)2G139	-0.035	7(3F)4G113				
179	-	150228.8	-	-	0.923	9(4D)6P201	-0.278	9(4P)6P202	-0.166	9(4P)4D253	0.120	9(4D)6F192
180	-	150262.5	-	-	0.993	7(1F)2F151	0.049	7(3F)2F144	0.042	7(3P)2F147	-0.035	7(3P)4F119
181	-	150331.9	-	-	-0.899	9(4D)6F192	0.244	9(4D)6G189	-0.208	9(4P)6F193	0.166	9(4P)6D199
182	-	150838.8	-	-	0.996	8(4G)4G160	-0.061	8(4G)4G161	-0.039	8(2F)4F166	0.035	8(2F)2F179
183	-	150941.5	-	-	-0.908	9(4P)4F235	0.196	9(4G)4F229	0.174	9(4D)6G189	0.173	9(4D)6F192
184	-	150957.4	-	-	-0.560	10(4G4F338)	0.466	10(4G4F339)	-0.440	10(4D4F343)	0.351	10(4G2F385)
185	-	151268.0	-	-	0.997	8(4G)2G173	-0.042	8(2F)2F179	-0.038	8(2F)2F180	0.036	8(4G)4G160
186	-	151320.3	-	-	-0.721	10(4P4D360)	-0.390	10(4D4D357)	0.364	10(4G4D353)	0.296	10(4P4D359)
187	-	151856.1	-	-	-0.770	10(4G2F385)	0.355	10(4D2F387)	-0.268	10(4G4F338)	0.233	10(4G4F339)
188	-	151904.2	-	-	-0.926	9(4D)6D198	-0.308	9(4G)6D196	-0.155	9(4P)6D199	0.080	9(4P)6P202
189	-	152294.0	-	-	0.878	5(3F)4F 40	0.470	5(3F)4F 41	0.072	5(1F)2F 49	0.031	5(1F)2F 47
190	-	152641.5	-	-	-0.877	5(3F)2F 47	-0.475	5(3F)2F 48	0.043	5(1F)2F 49	0.036	5(1G)2G 45
191	-	152772.0	-	-	-0.661	10(4D4F343)	-0.440	10(4G4F339)	-0.324	10(4D4F344)	0.238	10(4D4G332)
192	-	153101.6	-	-	-0.726	10(4D4G332)	0.390	10(4G4G329)	0.283	10(4F4G331)	0.249	10(4P4F345)
193	-	153732.1	-	-	0.935	9(4D)4F233	-0.186	9(4D)4G218	0.164	9(4G)4F229	0.143	9(4D)4F232
194	-	153831.0	-	-	0.858	10(4D4D356)	-0.356	10(4P4D359)	-0.170	10(4F4D354)	-0.144	10(2F4D361)
195	-	153962.9	-	-	0.930	9(4D)4G218	-0.175	9(4D)4F233	-0.168	9(4P)4F235	0.143	9(4D)4G217
196	-	154821.9	-	-	0.897	9(4D)4D251	-0.326	9(4P)4D253	-0.188	9(4G)4D247	0.129	9(4D)4D250
197	-	155237.0	-	-	0.524	10(4D4F344)	0.478	10(4D2F387)	0.301	10(4P4F345)	-0.297	10(4D4F343)
198	-	155455.5	-	-	-0.628	10(4D2F387)	0.422	10(4G4G329)	-0.347	10(4G2F385)	0.336	10(4D4F344)
199	-	155760.7	-	-	-0.645	10(4G4G329)	0.433	10(4D4F344)	-0.406	10(4D4G332)	0.263	10(4P4F345)
200	-	156011.6	-	-	-0.735	10(4D4D357)	0.377	10(4P4D360)	0.230	10(4P4D358)	-0.223	10(4P4D359)
201	-	156389.2	-	-	0.964	8(4P)6P156	0.221	8(4D)4D168	-0.104	8(2D)4D172	-0.064	8(2D)4D170
202	-	156956.9	-	-	-0.968	8(4D)4D168	0.223	8(4F)6F156	-0.065	8(2F)4F166	0.055	8(4D)4D169
203	-	157750.6	-	-	-0.879	9(4G)2G263	-0.420	9(4G)4H203	-0.132	9(4D)2G265	-0.072	9(4G)2F284
204	-	157860.9	-	-	-0.890	9(4G)4H203	0.412	9(4G)2G263	0.133	9(4G)4H204	0.072	9(4D)2G265
205	-	157968.5	-	-	-0.788	7(3F)4D126	-0.444	7(3F)4D127	-0.268	7(3P)4D129	-0.231	7(3P)4D130
206	-	158045.7	-	-	0.877	7(3F)4H108	0.478	7(3F)4H109				
207	-	158064.8	-	-	0.962	9(4G)4F228	0.146	9(4G)2F284	-0.141	9(4G)4F229	0.140	9(4G)4G213
208	-	158069.5	-	-	-0.939	10(2I4H323)	0.211	10(2H4H324)	0.152	10(2G4H326)	-0.132	10(4G4H320)
209	-	158117.2	-	-	0.881	9(4G)4G213	0.384	9(4G)4F228	-0.186	9(4G)4F228	-0.137	9(4G)4G214
210	-	158152.8	-	-	-0.764	8(2D)4D172	-0.430	8(2D)4D170	0.399	8(2F)4F166	-0.181	8(4F)4F165
211	-	158188.9	-	-	-0.857	9(4G)2F287	0.418	9(4G)4G213	-0.201	9(4P)2F287	0.139	9(4D)2F286
212	-	158320.1	-	-	0.549	7(3F)4F119	0.542	7(3P)4F122	0.464	7(3P)4F123	0.305	7(3F)4F120
213	-	158675.7	-	-	-0.969	10(4F6F309)	0.138	10(4F6F311)	0.106	10(2D4F352)	0.096	10(4G6G308)
214	-	158705.8	-	-	0.864	7(3F)4G113	0.490	7(3F)4G114	-0.053	7(3F)2G133	-0.049	7(3F)2F144
215	-	158898.7	-	-	0.976	8(4F)4F165	-0.127	8(2D)4D172	0.114	8(2F)4F166	-0.069	8(2D)4D170
216	-	159089.7	-	-	-0.745	7(3F)2F144	-0.434	7(3P)2F145	-0.418	7(3P)2G133	-0.232	7(3P)2G134
217	-	159139.7	-	-	0.758	7(3F)2G133	0.429	7(3P)2G134	-0.404	7(3F)2F144	-0.240	7(3F)2F145
218	-	159245.2	-	-	0.571	7(3F)4F119	-0.415	7(3P)4D129	-0.363	7(3P)4D130	0.318	7(3P)4F120
219	-	159424.7	-	-	0.871	9(4G)4D246	-0.370	9(4P)4D252	-0.259	9(4D)4D250	-0.143	9(4G)4D247
220	-	159461.3	-	-	0.801	5(1G)2G 45	0.596	5(1G)2G 46	0.034	5(3F)2F 47		
221	-	159505.7	-	-	0.585	10(2D4D365)	0.525	10(2F4D361)	0.353	10(2D4D363)	-0.200	10(4P4D359)
222	-	159692.5	-	-	-0.549	7(3P)4D129	-0.482	7(3P)4D130	0.396	7(3P)4F122	0.338	7(3P)4F123
223	-	160045.2	-	-	0.901	8(2F)4F166	0.347	8(2D)4D172	0.191	8(2D)4D170	0.127	8(2F)2F180
224	-	160104.7	-	-	-0.599	10(2F4G336)	0.473	10(2D4F352)	0.267	10(2D4F350)	0.237	10(2D2F403)
225	-	160133.3	-	-	0.724	7(3P)2F147	0.625	7(3P)2F148	0.126	7(3P)4F122	0.115	7(3P)4D129
226	-	160718.1	-	-	-0.834	10(4F6F311)	0.303	10(4F6D314)	-0.167	10(2D2F403)	-0.155	10(4G6F310)
227	-	160751.9	-	-	0.751	9(4P)4F234	0.563	9(4P)2F287	0.160	9(4D)4G217	-0.117	9(4P)4F235
228	-	160925.7	-	-	0.742	9(4P)2F287	-0.577	9(4P)4F234	-0.163	9(4G)2F284	0.149	9(4D)2G265
229	-	160950.9	-	-	-0.898	10(4F6D314)	-0.303	10(4F6P311)	-0.230	10(4D6D315)	-0.108	10(2P4D361)
230	-	161134.7	-	-	0.472	10(2F2F393)	-0.446	10(2D2F403)	0.285	10(2D4F352)	0.278	10(4F6F311)
231	-	161314.4	-	-	-0.484	10(2D4F352)	-0.482	10(2F4G336)	-0.353	10(4D4D358)	-0.267	10(2D4F350)
232	-	161613.8	-	-	0.614	10(4D4D358)	-0.300	10(2D4F352)	-0.252	10(2F4G336)	0.249	10(4D4D357)
233	-	161723.6	-	-	0.975	8(2F)2F180	-0.149	8(2D)4D172	0.091	8(2F)2F179	-0.080	8(2D)4D170
234	-	161960.7	-	-	-0.873	9(4P)4D252	-0.322	9(4G)4D246	0.188	9(4D)4D250	-0.170	9(4D)4F232
235	-	162498.6	-	-	0.761	9(2I)4G219	0.380	9(4F)6H186	-0.372	9(4P)6F191	0.210	9(4F)6G188
236	-	162525.2	-	-	0.899	9(4F)6F191	0.298	9(4F)6H186	0.207	9(2I)4G219	0.130	9(4F)6G188
237	-	162607.0	-	-	-0.790	9(4F)6H186</						

249	-	164264.6	-	-	0.599	9(2D) 4D260	0.343	9(2D) 4D258	-0.326	9(4F) 6D197	-0.291	9(2F) 4D256
250	-	164378.7	-	-	0.584	9(2D) 4G227	0.352	9(2F) 4G223	0.330	9(2D) 4G225	0.263	9(4F) 6D197
251	-	164396.5	-	-	-0.637	10(2H) 4G333	0.439	10(2G) 4G335	0.362	10(2F) 4G336	-0.276	10(4F) 4G330
252	-	164419.4	-	-	-0.892	9(4D) 4F232	-0.200	9(4F) 6D197	0.161	9(4F) 4D252	0.142	9(2D) 4G227
253	-	164610.2	-	-	0.584	10(2F) 2F393	0.429	10(2D) 2F403	0.262	10(2F) 2F394	0.217	10(2D) 2F399
254	-	164672.9	-	-	0.862	9(4F) 6D197	0.272	9(2D) 4D260	-0.206	9(2F) 4D256	-0.170	9(2F) 4F239
255	-	164915.6	-	-	0.763	10(4F) 4G330	0.473	10(2G) 4G335	-0.161	10(4F) 4F340	-0.148	10(2G) 4H326
256	-	165067.9	-	-	0.607	9(2I) 2G267	0.367	9(2D) 4F243	-0.284	9(2F) 4G223	-0.276	9(2F) 4H211
257	-	165138.2	-	-	0.966	8(2G) 4G163	-0.210	8(2H) 4H159	0.107	8(2F) 2F179	-0.050	8(2G) 2G177
258	-	165243.2	-	-	0.580	9(2I) 2G267	-0.474	9(2D) 4F243	-0.265	9(2D) 4F241	0.263	9(2F) 4G223
259	-	165486.8	-	-	0.786	7(1G) 2G137	0.615	7(1G) 2G138				
260	-	165568.2	-	-	0.607	10(2G) 4H326	0.605	10(2H) 4H324	0.226	10(2I) 4H323	0.196	10(2D) 2G384
261	-	165583.6	-	-	0.887	9(4F) 4D249	-0.248	9(2F) 4D256	0.202	9(4D) 4D250	0.151	9(4F) 4D248
262	-	165655.7	-	-	-0.591	9(4F) 4G216	-0.413	9(2F) 4G223	-0.358	9(2D) 4F243	-0.252	9(2F) 4F239
263	-	165876.9	-	-	-0.636	9(2F) 4H211	0.557	9(4F) 4H206	0.345	9(4F) 4G216	-0.271	9(2D) 4G227
264	-	165924.9	-	-	-0.879	9(4D) 4D250	-0.288	9(4G) 4D246	0.200	9(4F) 4D249	-0.169	9(2F) 4F239
265	-	166025.8	-	-	-0.492	10(2G) 4H326	-0.409	10(4F) 4H322	0.393	10(2D) 2G384	0.281	10(2F) 2G378
266	-	166122.0	-	-	0.471	10(2D) 2F404	-0.433	10(2F) 2G379	-0.369	10(4F) 4H322	0.305	10(2H) 4H324
267	-	166186.9	-	-	-0.703	9(2F) 4D256	0.570	9(2F) 4F239	-0.163	9(4D) 4D250	-0.154	9(2D) 4F243
268	-	166195.6	-	-	-0.772	7(1G) 2F149	-0.616	7(1G) 2F150	0.090	7(3P) 2F147	0.081	7(3P) 2F148
269	-	166355.5	-	-	0.671	9(4F) 4H206	0.461	9(2F) 4H211	-0.257	9(2H) 4H208	0.235	9(2I) 4H207
270	-	166521.5	-	-	-0.556	9(2F) 4F239	-0.473	9(2F) 4D256	-0.316	9(2D) 4D260	0.240	9(2D) 2F303
271	-	166551.2	-	-	0.877	8(2F) 2F179	-0.428	8(2G) 2G177	-0.113	8(2G) 4G163	0.106	8(2F) 4F167
272	-	166651.6	-	-	-0.797	10(4F) 4F340	-0.291	10(2G) 4F347	0.175	10(4D) 4F343	-0.158	10(4F) 4F341
273	-	166718.6	-	-	-0.390	10(2D) 2F404	-0.382	10(4F) 4H322	0.372	10(2H) 4H324	-0.367	10(2D) 2G384
274	-	166901.3	-	-	0.587	9(2F) 4G223	-0.482	9(4F) 4G216	-0.273	9(2D) 4G227	-0.261	9(2H) 4G220
275	-	167127.1	-	-	0.883	8(2G) 2G177	0.425	8(2F) 2F179	0.111	8(2G) 2G176	-0.084	8(4F) 2F178
276	-	167205.8	-	-	0.871	6(1D) 2F101	0.489	6(1D) 2F100				
277	-	167228.0	-	-	0.788	10(4F) 4D354	0.311	10(2F) 4D362	0.229	10(4F) 4F340	0.226	10(4D) 4D358
278	-	167486.4	-	-	-0.604	9(2D) 2F303	0.348	9(4F) 4F231	-0.342	9(2D) 2F299	-0.318	9(2F) 4F239
279	-	167496.9	-	-	-0.707	10(2F) 2F394	-0.311	10(4F) 2F386	0.297	10(2F) 2G379	-0.198	10(4F) 2G368
280	-	167645.0	-	-	-0.790	9(4F) 4F231	0.350	9(2H) 4F236	-0.310	9(2D) 2F303	0.187	9(2F) 2F295
281	-	167701.2	-	-	-0.489	10(2F) 2G379	0.446	10(4F) 2G368	-0.327	10(2D) 2F404	-0.277	10(2F) 2F394
282	-	167863.5	-	-	0.869	6(1D) 2G 89	0.492	6(1D) 2G 88	-0.030	6(1G) 2G 86		
283	-	168345.2	-	-	0.689	9(2D) 2G283	0.382	9(2D) 2G279	-0.353	9(2F) 2G275	0.263	9(2F) 4H211
284	-	168448.8	-	-	0.630	10(2G) 4F347	0.536	10(4F) 4F341	-0.353	10(4F) 4F340	0.172	10(4F) 2F386
285	-	168592.1	-	-	0.986	8(2F) 4F167	-0.119	8(2F) 2F179	0.098	8(4F) 2F178	0.045	8(4F) 6F156
286	-	168740.0	-	-	-0.501	10(2G) 4F347	0.467	10(4F) 2F386	0.374	10(4F) 4F341	-0.287	10(2F) 2F394
287	-	168844.3	-	-	-0.470	10(2F) 4G337	0.422	10(2G) 4G335	-0.323	10(4F) 4G330	-0.280	10(4F) 2G368
288	-	168994.9	-	-	-0.856	9(2F) 2F295	-0.299	9(2F) 2F294	-0.254	9(2D) 2F303	-0.140	9(2D) 2F299
289	-	169142.2	-	-	0.562	10(4F) 4H322	0.408	10(2H) 4H324	-0.343	10(2G) 4H326	0.323	10(4F) 2G368
290	-	169245.5	-	-	0.429	10(4F) 2G368	-0.359	10(2H) 4H324	-0.331	10(4F) 4H322	0.277	10(2G) 4H326
291	-	169494.6	-	-	-0.543	10(4F) 4F341	0.526	10(4F) 2F386	-0.283	10(2H) 2F388	0.274	10(2G) 4F347
292	-	169555.2	-	-	-0.969	8(4F) 4F164	-0.146	8(2F) 2F182	0.119	8(2G) 2G176	-0.114	8(4F) 2F178
293	-	169688.3	-	-	0.567	10(2G) 2F391	0.348	10(4F) 4G331	-0.288	10(2G) 2F392	-0.268	10(2H) 2F388
294	-	169746.4	-	-	0.749	9(2F) 2G275	0.304	9(2H) 2G269	0.292	9(2D) 2G283	0.208	9(2F) 2G274
295	-	169956.1	-	-	-0.917	8(4F) 2F178	-0.280	8(2F) 2F182	0.164	8(4F) 4F164	0.144	8(2G) 2G176
296	-	170180.4	-	-	-0.720	10(4F) 4G331	0.288	10(2G) 2F391	-0.192	10(2H) 4G333	0.184	10(4G) 4G329
297	-	170311.8	-	-	0.471	10(2H) 2G371	0.435	10(2F) 2G378	0.353	10(2H) 2G370	0.297	10(2G) 2G376
298	-	170325.7	-	-	-0.825	9(2I) 2G266	-0.276	9(2H) 4G220	0.263	9(2I) 2G267	0.180	9(2H) 2F289
299	-	170539.9	-	-	0.865	9(2H) 4G220	-0.258	9(2G) 4G222	-0.252	9(2I) 2G266	0.140	9(2F) 4G223
300	-	170581.8	-	-	-0.938	8(2F) 2F182	0.294	8(4F) 2F178	-0.107	8(2F) 2F181	-0.095	8(2G) 2G176
301	-	170830.8	-	-	0.874	10(2F) 4D362	-0.346	10(4F) 4D354	-0.194	10(2D) 4D364	0.128	10(2F) 4D361
302	-	171287.7	-	-	0.913	9(2G) 4H210	0.349	9(2H) 4H208	-0.119	9(2F) 2G275	0.090	9(2G) 4G222
303	-	171379.3	-	-	-0.918	9(2G) 4D255	-0.205	9(2H) 4F236	0.173	9(2H) 2F289	-0.153	9(2F) 4D257
304	-	171458.1	-	-	0.651	10(2G) 2G376	0.459	10(2F) 2G380	-0.264	10(2F) 2G381	0.241	10(4F) 2G368
305	-	171718.2	-	-	0.850	9(2H) 4H208	-0.354	9(2G) 4H210	0.215	9(4F) 4H206	0.176	9(2I) 4H207
306	-	172081.1	-	-	-0.968	8(2G) 2G176	-0.193	8(4F) 2F178	0.104	8(2G) 2G177	-0.101	8(4F) 4F164
307	-	172226.1	-	-	0.578	10(2F) 4G337	0.504	10(2H) 4G333	-0.363	10(2F) 4F349	0.341	10(2G) 4G335
308	-	172316.8	-	-	-0.681	9(2G) 4F238	0.390	9(2D) 2G282	-0.380	9(2H) 2F289	0.253	9(2F) 4F240
309	-	172373.9	-	-	-0.561	9(2G) 4F238	-0.557	9(2D) 2G282	-0.315	9(2D) 2G278	-0.309	9(2F) 2G274
310	-	172495.6	-	-	-0.637	9(2H) 2F289	-0.395	9(2G) 2F293	-0.266	9(2H) 4F236	-0.234	9(2H) 2F288
311	-	172514.4	-	-	-0.492	10(2F) 4F349	-0.384	10(4F) 4D355	-0.339	10(2F) 4G337	0.308	10(2G) 2F391
312	-	172747.8	-	-	0.638	10(2F) 4F349	0.361	10(2G) 2F391	0.305	10(2H) 2F388	-0.227	10(2G) 2G375
313	-	172777.7	-	-	0.727	9(2H) 4F236	-0.370	9(2G) 4G222	-0.274	9(2G) 4D255	0.273	9(4F) 4F231
314	-	172985.1	-	-	0.704	10(4F) 4D355	-0.386	10(2G) 2G375	0.310	10(4D) 4D358	0.200	10(2H) 2F388
315	-	173118.6	-	-	-0.654	9(2D) 2F302	-0.365	9(2D) 2F298	0.293	9(2F) 2G274	-0.227	9(2D) 2G282
316	-	173144.3	-	-	-0.558	10(2G) 2G375	-0.378	10(2F) 2F396	0.289	10(2F) 2F395	0.254	10(2I) 2G369
317	-	173246.3	-	-	0.773	9(2G) 4G222	0.336	9(2H) 4F236	0.164	9(4F) 4F231	0.162	9(2F) 4G223
318	-	173578.2	-	-	0.596	10(2F) 2F396	-0.314	10(2G) 2F392	-0.288	10(2F) 2F395	-0.238	10(2F) 2F393
319	-	174018.7	-	-	-0.576	9(2F) 2F294	0.366	9(2G) 2G273	0.317	9(2D) 2F302	0.289	9(2F) 2G274
320	-	174087.8	-	-	0.573	9(2F) 2F294	0.570	9(2F) 2G274	-0.274	9(2F) 2G275	-0.219	9(2F) 2F295
321	-	174397.8	-	-	0.387	10(2F) 2F395	0.369	10(2G) 2G376	0.344	10(2F) 2F397	0.317	10(2G) 2G375
322	-	174638.8	-	-	0.706	9(2G) 2G273	0.315	9(2G) 2G272	0.280	9(2F) 2F294	-0.267	9(2F) 2G277
323	-	174806.9	-	-	-0.495	10(2F) 2F395	-0.410	10(2F) 2F397	-0.343	10(2F) 2F396	0.274	10(2H) 2G370
324	-	174834.1	-	-	0.910	9(2F) 4G224	-0.157	9(2H) 4G220	-0.144	9(2F) 2G274	0.143	9(2F) 2F294
325	-	175153.9	-	-	-0.952	9(2F) 4H212	0.156	9(4F) 4H205	-0.134	9(4F) 4H206	-0.102	9(2H) 2G269
326	-	175410.9	-	-	0.643	9(2F) 4F240	-0.468	9(2G) 2F293	0.297	9(2H) 2F289	-0.282	9(2F) 2F297
327	-	175463.9	-	-	-0.984	8(2F) 2F181	0.122	8(2F) 2F182	-0.086	8(4F) 4F164	0.079	8(2D) 4D171
328	-	175507.5	-	-	-0.659	9(2F) 4F240	-0.437	9(2G) 2F293	0.309	9(2H) 2F289	-0.307	9(2F) 2F297
329	-	175996.2	-	-	0.645	10(2F) 2G380	0.475	10(2H) 2G370	-0.334	10(2G) 2G376	0.264	10(2G) 2G375
330	-	176092.2	-	-	-0.803	9(4F) 2G264	0.312	9(2H) 2G269	-0.218	9(2H) 2G268	-0.185	9(2G) 2F293
331	-	176178.3	-	-	-0.917	9(2F) 4D257	0.214	9(4F) 4F230	-0.195	9(2S) 4D262	0.145	9(2G) 4D255
332	-	176697.4	-	-	-0.850	9(4F) 4F230	0.294	9(2H) 2G269	0.224	9(4F) 4G215	-0.199	9(2F) 4D257
333	-	176907.1	-	-	0.527	9(2H) 2G269	-0.456	9(4F) 4				

349	-	181492.6	-	-	-0.744	10(2G2G377	-0.484	10(2H2G371	-0.273	10(2D2G383	0.224	10(2G2G376
350	-	181533.1	-	-	0.605	9(2F)2F297	-0.582	9(2G)2F292	-0.252	9(2G)2G272	0.195	9(2F)2F296
351	-	182732.2	-	-	0.934	9(2F)2G276	-0.212	9(2F)2G277	-0.145	9(2G)2G268	0.094	9(4F)2G264
352	-	182859.8	-	-	0.936	10(2D4F351	-0.212	10(2D4D364	0.184	10(2G4F347	0.142	10(2G4F346
353	-	183416.2	-	-	0.908	9(2F)2F296	-0.202	9(2G)2F293	0.194	9(2G)2F292	-0.193	9(2F)2F297
354	-	183752.9	-	-	-0.768	10(2F2F398	-0.324	10(2D2F402	-0.281	10(2D2F401	0.247	10(2B2F388
355	-	183934.3	-	-	-0.915	10(2D4D364	-0.214	10(2F2F398	-0.204	10(2D4F351	-0.148	10(2F4D362
356	-	186585.4	-	-	-0.819	10(2D2F401	0.353	10(2D2F402	0.224	10(2G2F389	-0.168	10(2G2F391
357	-	186798.8	-	-	0.991	9(2D)4G226	0.087	9(2D)4F242	-0.057	9(2G)4G221	0.042	9(2F)4G224
358	-	186974.7	-	-	0.989	9(2D)4F242	-0.084	9(2D)4G226	0.053	9(2H)4G236	0.046	9(2D)4D259
359	-	187282.0	-	-	-0.985	9(2D)4D259	0.088	9(2G)4D254	-0.078	9(2F)2F296	-0.075	9(2S)4D262
360	-	187607.9	-	-	-0.872	7(1D)2F153	-0.489	7(1D)2F152				
361	-	188015.4	-	-	0.870	7(1D)2G141	0.491	7(1D)2G140				
362	-	188382.1	-	-	-0.999	8(2G)4G162						
363	-	189075.6	-	-	-0.842	10(2D2G383	-0.344	10(2G2G372	0.275	10(2G2G377	0.144	10(2G2G376
364	-	189839.8	-	-	-0.931	9(2D)2G281	-0.313	9(2D)2G280	-0.130	9(2G)2G271	-0.069	9(2D)2G270
365	-	189989.0	-	-	0.969	10(2G4H325	-0.176	10(2G4G334	-0.116	10(2I4H323	-0.081	10(2D2G383
366	-	190301.7	-	-	0.992	8(2G)2G175	0.120	8(2G)2G174				
367	-	190455.2	-	-	-0.930	9(2D)2F301	-0.300	9(2D)2F300	0.135	9(2F)2F297	0.084	9(2F)2F296
368	-	190636.7	-	-	0.816	10(2D2F402	-0.377	10(2F2F398	0.311	10(2D2F401	-0.155	10(2G2F392
369	-	190960.1	-	-	-0.811	10(2G4G334	0.517	10(2G4F346	-0.171	10(2G4H325	-0.100	10(2D4F350
370	-	191582.2	-	-	-0.804	10(2G4F346	-0.532	10(2G4G334	0.159	10(2D4F350	0.103	10(2D4F351
371	-	194569.2	-	-	-0.937	9(2D)2G281	0.326	9(2D)2G281	-0.085	9(2G)2G271	-0.036	9(2F)2G276
372	-	194768.7	-	-	0.946	9(2D)2F300	-0.306	9(2D)2F301	0.041	9(2H)2F288	0.040	9(4F)2F285
373	-	194820.8	-	-	-0.991	9(2G)4G221	0.085	9(2G)4H209	-0.057	9(2D)4G226	-0.040	9(2D)4G225
374	-	194919.0	-	-	0.995	9(2G)4H209	0.085	9(2G)4G221	0.032	9(2F)2G276		
375	-	195053.4	-	-	-0.994	9(2G)4D254	-0.087	9(2D)4D259	-0.031	9(2P)4D261		
376	-	195186.9	-	-	0.891	10(2G2F399	-0.204	10(2G2F390	-0.191	10(2G2G372	-0.168	10(2D2F399
377	-	195244.5	-	-	-0.993	8(2G)2G174	0.120	8(2G)2G175				
378	-	196237.1	-	-	-0.898	10(2G2G372	0.315	10(2D2G383	-0.163	10(2G2F389	0.158	10(2G2F390
379	-	196364.6	-	-	-0.992	9(2G)4F237	-0.078	9(4F)4F231	0.059	9(2P)4F244	0.041	9(2F)4F240
380	-	196907.0	-	-	-0.920	9(2G)2F291	-0.385	9(2G)2F290	-0.041	9(2D)2F299		
381	-	197680.6	-	-	-0.933	10(2G2G373	-0.211	10(2D2G382	-0.198	10(2G2G377	-0.086	10(2G2G374
382	-	198358.0	-	-	0.912	10(2G2F390	0.222	10(2G2F389	0.202	10(2D2F401	0.154	10(2D2F400
383	-	200202.4	-	-	-0.971	9(2G)2G271	-0.140	9(2G)2G270	0.116	9(2D)2G280	0.097	9(2D)2G281
384	-	202777.8	-	-	-0.984	9(2G)2G270	0.148	9(2G)2G271	0.058	9(2D)2G281	0.033	9(2H)2G269
385	-	203992.5	-	-	0.940	10(2G2G374	0.222	10(2D2G382	-0.148	10(2G2G373	0.120	10(2G2G376
386	-	204102.0	-	-	-0.915	9(2G)2F290	0.381	9(2G)2F291	-0.088	9(4F)2F285	0.048	9(2P)2F304
387	-	205902.8	-	-	0.931	10(2P4D366	-0.305	10(2D4D363	0.146	10(2D4D365	-0.085	10(2F4D362
388	-	210387.8	-	-	-0.994	9(2P)4D261	0.087	9(2D)4D258	-0.042	9(2D)4D260		
389	-	210832.0	-	-	0.995	9(2P)4F244	0.057	9(2G)4F237	0.046	9(2D)4F241	0.037	9(2D)4G225
390	-	211221.3	-	-	0.874	10(2P2F405	0.349	10(2D2F400	0.160	10(2D2F399	-0.159	10(2D2F404
391	-	211442.7	-	-	-0.872	8(2D)4D170	0.489	8(2D)4D172				
392	-	213442.5	-	-	0.932	9(2P)2F305	0.326	9(2P)2F304	0.106	9(2D)2F299	-0.060	9(2D)2F303
393	-	214282.2	-	-	0.632	10(2D4D363	-0.519	10(2D4F350	-0.363	10(2D4D365	0.293	10(2D4F352
394	-	214563.2	-	-	-0.674	10(2D4F350	-0.503	10(2D4D363	0.382	10(2D4F352	0.287	10(2D4D365
395	-	217581.1	-	-	0.856	9(2D)4G225	-0.481	9(2D)4G227	0.136	9(2P)2F304	-0.093	9(2P)2F305
396	-	217716.5	-	-	0.863	9(2D)4D258	-0.487	9(2D)4D260	0.094	9(2P)4D261	-0.061	9(2D)4G225
397	-	218038.6	-	-	0.813	10(2D2F399	-0.464	10(2D2F403	-0.248	10(2P2F405	0.183	10(2G2F389
398	-	218539.5	-	-	0.744	9(2P)2F304	0.510	9(2D)4F243	-0.284	9(2D)4F243	-0.268	9(2P)2F305
399	-	218786.6	-	-	-0.706	9(2D)4F241	0.547	9(2P)2F304	0.392	9(2D)4F243	-0.164	9(2P)2F305
400	-	220425.5	-	-	0.803	9(2D)2F299	-0.454	9(2D)2F303	0.310	9(2D)2F298	-0.177	9(2D)2F302
401	-	221363.3	-	-	-0.805	10(2D2G382	0.463	10(2D2G384	0.258	10(2G2G374	0.181	10(2G2G373
402	-	221480.6	-	-	-0.830	9(2D)2G279	0.463	9(2D)2G283	-0.249	9(2D)2G278	0.138	9(2D)2G282
403	-	222833.7	-	-	0.761	10(2D2F400	-0.438	10(2D2F404	-0.357	10(2P2F405	-0.185	10(2D2F399
404	-	225423.8	-	-	-0.834	9(2D)2G278	0.468	9(2D)2G282	0.246	9(2D)2G279	-0.139	9(2D)2G283

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D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2

OBSERVED ENERGY	EIGENVALUE	E-0	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS															
				1	2	3	4	5	6	7	8	9	10						
1	0.000	-7.1	D6S (5D)6D	0.999	2(5D)6D	4													
2	1872.567	1741.7	-130.9	D7 (5D)4F	0.998	1(4F)4F	1	0.042	1(2G)2G	3	0.030	3(4F)4F	14						
3	15844.650	15765.6	-79.0	D7 (5D)2G	-0.991	1(2G)2G	3	-0.115	1(2H)2H	2	-0.043	2(3G)2G	10						
4	20805.770	21055.9	250.1	D7 (5D)2H	-0.989	1(2H)2H	2	0.115	1(2G)2G	3	0.077	2(3H)2H	9	-0.038	3(2H)2H	15			
5	21581.638	21667.9	86.3	D6S (3H)4H	-0.987	2(3H)4H	5	-0.129	2(3G)4G	6	0.069	2(3F)4F	8	-0.039	2(3F)4F	7			
6	22637.205	22706.6	69.4	D6S (3F)4F	-0.862	2(3F)4F	8	0.462	2(3G)4G	6	0.154	2(3G)4G	6	-0.101	2(3H)4H	5			
7	25805.328	25653.3	-152.0	D6S (3G)4G	-0.967	2(3G)4G	6	-0.154	2(3F)4F	8	0.154	2(3H)2H	9	0.112	2(3H)4H	5			
8	26352.766	26481.8	129.1	D6S (3H)2H	-0.973	2(3H)2H	9	-0.151	2(3G)4G	6	-0.128	2(3G)2G	10	-0.076	1(2H)2H	2			
9	30388.542	30240.4	-148.2	D6S (3G)2G	0.989	2(3G)2G	10	-0.127	2(3H)2H	9	-0.043	1(2G)2G	3	-0.042	2(3F)4F	8			
10	33466.463	32957.1	-509.4	D6S (1G)2G	-0.805	2(1G)2G	12	0.580	2(1G)2G	11	0.086	2(3H)2H	9	0.068	2(3F)4F	8			
11	50157.452	50089.6	-67.9	D6S (3F)4F	-0.882	2(3F)4F	7	-0.469	2(3F)4F	8	0.037	2(1G)2G	11						
12	54273.641	54323.5	49.9	D5S2(7S)4G	1.000	3(4G)4G	13												
13	58631.531	58723.7	92.2	D6S (1G)2G	-0.810	2(1G)2G	11	-0.584	2(1G)2G	12	-0.031	2(3F)4F	7						
14	73393.745	73255.3	-138.5	D5S2(7S)4F	0.991	3(4F)4F	14	-0.124	3(2G)2G	17									
15	77230.900	77154.2	-76.7	D5S2(7S)2H	0.895	3(2H)2H	15	0.440	3(2G)2G	17	0.069	3(4F)4F	14	-0.034	1(2H)2H	2			
16	77861.625	77847.7	-13.9	5S (5D)6D	0.999	4(5D)6D	18	-0.031	4(3F)4F	22									
17	78577.280	78582.8	5.5	D5S2(7S)2G	0.889	3(2G)2G	17	-0.445	3(2H)2H	15	0.104	3(4F)4F	14						
18	82978.677	82998.0	19.4	4D (5D)6F	-0.925	6(5D)6F	37	0.357	6(5D)6D	38	0.124	6(5D)6G	36	-0.033	6(5D)4F	51			
19	83726.364	83701.8	-24.6	4D (5D)6D	0.932	6(5D)6D	38	0.347	6(5D)6F	37	-0.089	6(5D)6G	36	0.041	6(5D)4F	51			
20	84527.778	84427.1	-100.7	4D (5D)6G	0.975	6(5D)6G	36	0.160	6(5D)4G	45	0.146	6(5D)6F	37	0.040	6(5D)6D	38			
21	85184.734	85188.5	3.8	4D (5D)4G	0.966	6(5D)4G	45	-0.197	6(5D)4F	51	-0.159	6(5D)6G	36						
22	86124.301	86158.7	34.4	4D (5D)4F	-0.963	6(5D)4F	51												

37	-	104803.7	-	-	0.856 6(3H)2G 67	-0.297 6(3F)2G 70	-0.213 6(3F)4F 55	0.190 6(3F)2G 69
38	104868.500	104833.8	-34.7	5D (5D)6G	0.933 7(5D)6G 78	0.282 7(5D)4G 87	0.204 7(5D)6F 79	0.077 7(5D)6D 80
39	105155.090	105156.3	1.3	4D (3F)4G	-0.762 6(3F)4G 49	0.452 6(3F)4G 48	0.277 6(3H)4G 46	0.236 6(3F)4H 44
40	105211.140	105204.7	-6.4	5D (5D)4G	0.923 7(5D)4G 87	-0.282 7(5D)6G 78	-0.253 7(5D)4F 93	-0.045 7(5D)6F 79
41	105524.461	105503.7	-20.8	4D (3F)4H	-0.812 6(3F)4H 44	0.447 6(3F)4H 43	-0.244 6(3F)4G 49	0.152 6(3H)4H 41
42	-	105843.2	-	-	-0.958 7(5D)4F 93	-0.258 7(5D)4G 87	0.068 7(3H)4F 94	0.065 7(5D)6F 79
43	-	106073.6	-	-	0.849 6(3F)2H 62	-0.466 6(3F)2H 61	-0.116 6(3F)4H 44	0.108 6(3G)2H 60
44	-	106215.1	-	-	-0.739 6(3H)2H 59	0.407 6(3F)2G 70	-0.262 6(3G)2H 60	-0.239 6(3F)2G 69
45	-	106666.1	-	-	-0.584 6(3F)4F 55	0.541 6(3H)4F 52	-0.339 6(3G)4F 53	0.318 6(3F)4F 54
46	-	107101.6	-	-	0.610 6(3F)2G 70	0.480 6(3H)2H 59	-0.349 6(3F)2G 69	0.329 6(3H)2G 67
47	107219.500	107219.5	0.0	4P2(7P)8P	0.999 10(6S8P240)	-0.042 10(6S6D247)	-0.077 4(3F)4F 22	-0.062 4(3H)2H 23
48	-	108394.0	-	-	0.798 4(1G)2G 26	-0.592 4(1G)2G 25	0.127 6(3H)4G 46	-0.116 6(3F)4F 55
49	-	109091.7	-	-	-0.857 6(3G)4H 47	0.441 6(3G)4H 42	0.127 6(3H)4G 46	-0.116 6(3F)4F 55
50	-	109257.7	-	-	-0.873 6(3G)4H 42	-0.439 6(3G)4G 47	-0.083 6(3F)4G 49	0.070 6(3F)4H 44
51	109473.650	109495.6	21.9	4SD(7S)8D	1.000 9(6S)8D140	-	-	-
52	-	109533.2	-	-	0.983 6(3G)4I 40	0.126 6(3H)4I 39	0.086 6(3F)4H 44	0.077 6(3F)2H 62
53	-	110293.8	-	-	0.776 6(3G)2G 68	-0.475 6(3G)2H 60	-0.215 6(1G)2G 74	0.176 6(1I)2G 72
54	-	110630.4	-	-	0.763 6(3G)2H 60	0.429 6(3G)2G 68	0.315 6(1I)2H 63	-0.176 6(1G)2G 74
55	-	111102.4	-	-	-0.915 6(3G)4F 53	-0.249 6(3H)4F 52	0.178 6(3F)4F 55	-0.128 6(5D)4F 51
56	-	113270.1	-	-	-0.776 6(1G)2H 65	0.589 6(1G)2H 64	0.178 6(1I)2H 63	-0.073 6(3H)4I 39
57	-	113764.7	-	-	0.749 6(1I)2G 72	0.507 6(1G)2G 74	-0.408 6(1G)2G 73	0.070 6(3G)2G 68
58	-	113928.2	-	-	-0.992 9(6S)6D152	-0.100 9(6S)6D151	0.061 9(4G)6D153	0.035 9(4D)6D155
59	-	115475.3	-	-	0.631 6(3D)2G 71	0.443 6(1I)2G 72	-0.402 6(1G)2G 74	0.305 6(1G)2G 73
60	-	116237.8	-	-	-0.980 6(3D)4G 50	-0.111 6(3D)4F 56	0.096 6(3G)4G 47	-0.062 6(3D)2G 71
61	-	116653.0	-	-	-0.987 6(3D)4F 56	0.113 6(3D)4G 50	-0.067 6(3H)4G 52	-0.046 6(3G)4F 53
62	-	117361.8	-	-	0.866 6(1I)2H 63	0.315 6(3H)2H 59	-0.279 6(3G)2H 60	0.146 6(1G)2H 65
63	-	117903.0	-	-	-0.993 10(6S6D247)	0.094 10(4D6D249)	0.046 10(4P6D250)	-0.044 10(6S8P240)
64	-	118995.6	-	-	-0.730 6(3D)2G 71	0.369 6(1I)2G 72	-0.296 6(1G)2G 74	-0.271 6(1D)2G 76
65	-	121914.3	-	-	0.816 6(1D)2G 76	-0.458 6(1D)2G 77	-0.188 6(3D)2G 71	0.159 6(1I)2G 72
66	-	122086.6	-	-	-0.975 5(3H)4H 28	-0.176 5(3H)2H 32	-0.104 5(3G)4G 29	-0.057 5(3G)2G 33
67	-	122497.2	-	-	0.964 5(3H)2H 32	-0.162 5(3H)4H 28	0.131 5(3F)4F 31	0.108 5(3G)2G 33
68	-	123179.0	-	-	-0.850 5(3F)4F 31	0.467 5(3F)4F 30	0.158 5(3H)2H 32	0.124 5(3G)4G 29
69	-	123464.6	-	-	0.722 7(3P)4F100	-0.617 7(3P)4F 99	-0.306 7(3H)4F 94	-0.036 7(3G)4F 95
70	-	124410.1	-	-	-0.929 7(3H)4G 88	0.234 7(3H)4H 83	-0.143 7(3H)2G109	0.135 7(3H)4F 94
71	-	124476.1	-	-	-0.926 7(3H)4H 83	0.255 7(3H)4I 81	-0.209 7(3H)4G 88	-0.090 7(3G)4G 89
72	-	124620.5	-	-	-0.951 7(3H)4I 81	-0.250 7(3H)4H 83	0.086 7(3G)4I 82	-0.059 7(3F)4H 86
73	-	124878.6	-	-	-0.673 7(3H)4F 94	-0.567 7(3H)2G109	-0.302 7(3F)4F 97	0.174 7(3F)4F 96
74	-	124996.8	-	-	-0.737 7(3H)2G109	0.449 7(3H)4F 94	0.285 7(3F)4F 97	0.226 7(3H)4G 88
75	-	125672.0	-	-	0.796 7(3F)4G 91	-0.461 7(3F)4G 90	-0.236 7(3F)4H 86	-0.151 7(3H)4G 88
76	-	125931.1	-	-	-0.804 7(3F)4H 86	0.444 7(3F)4H 85	-0.219 7(3F)4G 91	-0.193 7(3F)2H104
77	-	126072.5	-	-	-0.861 7(3H)2H101	0.220 7(3F)2G112	0.206 7(3F)2H104	-0.162 7(3G)2H102
78	-	126277.6	-	-	-0.801 7(3F)2H104	0.444 7(3F)2H103	0.193 7(3F)2G112	0.166 7(3F)4H 86
79	-	126378.6	-	-	-0.850 5(3G)4G 29	-0.507 5(3G)2G 33	0.110 5(3H)4H 28	-0.076 5(3F)4F 31
80	-	126406.9	-	-	0.731 7(3F)4F 97	-0.437 7(3H)4F 94	-0.409 7(3F)4F 96	-0.176 7(3H)2H101
81	-	126757.7	-	-	0.851 5(3G)2G 33	-0.495 5(3G)4G 29	-0.126 5(3F)4F 31	-0.107 5(3H)2H 32
82	-	126872.4	-	-	0.734 7(3F)2G112	-0.420 7(3F)2G111	0.321 7(3H)2H101	0.288 7(3H)2G109
83	-	128622.3	-	-	0.877 4(3F)4F 21	0.478 4(3F)4F 22	-0.041 4(1G)2G 25	-0.058 6(1I)2H 63
84	-	129252.9	-	-	0.985 6(1F)2H 66	-0.114 6(3F)2H 61	0.058 6(3H)2H 59	-0.091 7(3F)4F 97
85	-	129529.5	-	-	-0.876 7(3G)4G 89	0.422 7(3G)4H 84	-0.132 7(3G)2G110	-0.076 7(3F)4G 91
86	-	129712.0	-	-	-0.879 7(3G)4H 84	-0.429 7(3G)4G 89	-0.106 7(3G)2H102	-
87	-	129815.3	-	-	0.994 9(6S)6D152	-0.101 9(6S)6D152	-	-
88	-	129903.3	-	-	-0.989 7(3G)4I 82	-0.076 7(3H)4I 81	-0.072 7(3F)4H 86	-0.067 7(3F)2H104
89	-	130041.7	-	-	0.995 6(1F)2G 75	-0.045 6(3F)4G 48	-0.042 6(1D)2G 76	0.037 6(3F)2G 69
90	-	130295.4	-	-	0.702 7(3G)2G110	-0.472 7(3G)2H102	0.448 7(3G)4F 95	0.136 7(3G)4H 84
91	-	130379.2	-	-	0.865 7(3G)4F 95	0.328 7(3G)2H102	-0.315 7(3G)2G110	0.102 7(3H)4F 94
92	-	130634.3	-	-	-0.759 7(3G)2H102	-0.542 7(3G)2G110	-0.138 7(1I)2H105	0.138 7(3H)2H101
93	-	131854.6	-	-	0.798 5(1G)2G 35	-0.592 5(1G)2G 34	-0.077 5(3F)4F 31	-0.058 5(3H)2H 32
94	-	133702.7	-	-	0.777 7(1G)2H105	-0.596 7(1G)2H106	-0.162 7(1I)2H105	0.063 7(3H)4I 81
95	-	134090.4	-	-	0.625 7(1I)2G114	0.604 7(1G)2G116	-0.477 7(1G)2G115	0.072 7(3G)2G110
96	-	135142.5	-	-	-0.707 7(1I)2G114	0.415 7(1G)2G116	-0.371 7(3D)2G113	-0.317 7(1G)2G115
97	-	135944.0	-	-	0.935 7(1I)2H105	0.190 7(3H)2H101	-0.181 7(3G)2H102	0.131 7(1G)2H107
98	-	135994.4	-	-	0.801 4(1G)2G 25	0.596 4(1G)2G 26	0.037 4(3F)4F 21	0.030 4(3F)4G 22
99	-	136682.5	-	-	-0.983 7(3D)4G 92	-0.150 7(3D)4F 98	-0.059 7(1D)2G118	0.055 7(3F)4G 89
100	-	136940.1	-	-	0.986 7(3D)4F 98	-0.151 7(3D)4G 92	0.030 7(3H)4F 94	-
101	-	137418.2	-	-	-0.876 6(3F)4H 43	-0.475 6(3F)4H 44	-0.051 6(1F)2H 66	0.039 6(3F)2H 61
102	-	137712.3	-	-	0.999 8(4G)6G120	-	-	-
103	-	137878.8	-	-	0.922 7(3D)2G113	-0.264 7(1I)2G114	0.182 7(1G)2G116	-0.147 7(1G)2G115
104	-	137882.1	-	-	-0.587 6(3F)4F 54	-0.562 6(3F)4F 57	-0.481 6(3F)4F 58	-0.324 6(3F)4F 55
105	-	138531.2	-	-	-0.859 6(3F)4G 48	-0.498 6(3F)4G 49	0.072 6(3F)2H 61	-0.050 6(1F)2G 75
106	-	139096.0	-	-	-0.836 6(3F)2H 61	-0.465 6(3F)2H 62	0.156 6(3F)2G 69	-0.117 6(1F)2H 66
107	-	139304.8	-	-	-0.993 10(4G6G242)	0.077 10(4G6G242)	-0.045 10(4G6F244)	-0.035 10(4G4H254)
108	-	139359.8	-	-	-0.848 6(3F)2G 69	-0.495 6(3F)2G 70	-0.161 6(3F)2H 61	-0.087 6(3F)2H 62
109	-	139804.8	-	-	-0.644 6(3F)4F 54	0.513 6(3P)4F 57	0.433 6(3P)4F 58	-0.362 6(3F)4F 55
110	-	139962.3	-	-	-0.968 10(4G6F244)	0.166 10(4F6F245)	0.148 10(4G6G245)	-0.068 10(4D6F246)
111	-	140149.3	-	-	0.998 8(4G)4G125	0.061 8(4G)4G125	-	-
112	-	141927.8	-	-	0.863 7(1D)2G118	-0.486 7(1D)2G119	-0.068 7(3D)4G 92	0.051 7(1I)2G114
113	-	142077.6	-	-	0.978 10(4G6G242)	0.150 10(4G6F244)	0.103 10(4F6G243)	0.067 10(4G6H241)
114	-	143763.8	-	-	0.994 9(4G)6H142	-0.083 9(4G)6H141	-0.052 9(4F)6H143	-
115	-	143764.2	-	-	0.965 10(4P6D250)	0.178 10(4D6F246)	0.138 10(4D6D249)	-0.063 10(4P4F279)
116	-	143795.5	-	-	0.999 8(4D)6D122	0.039 8(4F)6F121	-	-
117	-	143951.3	-	-	-0.995 9(4G)6F147	-0.067 9(4G)6G144	-0.042 9(4F)6F148	-
118	-	143964.0	-	-	-0.996 9(4G)6H141	-0.084 9(4G)6H142	-0.038 9(2F)4H171	-
119	-	144037.2	-	-	0.997 9(4G)6G144	-0.068 9(4G)6F147	-	-
120	-	144808.4	-	-	-0.753 10(4G4H254)	0.501 10(4G4H255)	0.331 10(4G4G261)	0.118 10(2I4H257)
121	-	145118.2	-	-	-0.599 10(4G4F272)	-0.487 10(4G4F273)	0.418 10(4G4G261)	0.247 10(4G4H254)
122	-	145231.5	-	-	0.784 6(1G)2G 73	0.614 6(1G)2G 74	0.043 6(1D)2G 77	0.042 6(3F)4F 54
123	-	145314.1	-	-	0.886 9(4G)6D153	-0.374 9(4P)6D156	-0.262 9(4D)6D155	0.042 9(4P)6F150
124	-	145711.0	-	-	-0.769 10(4G4G261)	-0.361 10(4G4F272)	-0.290 10(4G4F273)	-0.212 10(4G4G262)
125	-	145797.3	-	-	-0.787 6(1G)2H 64	-0.594 6(1G)2H 65	0.126 6(3F)2H 61	0.077 6(3F)2H 62
126	-	146084.8	-	-	-0.878 10(4D6D249)	0.337 10(4D6F246)	0.226 10(4F6D248)	0.149 10(4G4F272)
127	-	146641.2	-	-	-0.906 10(4D6F246)	-0.313 10(4D6D249)	0.206 10(4P6D250)	-0.116 10(4F6F245)
128	-	146752.5	-	-	0.970 9(4P)6F150	0.177 9(4D)6F146	-0.135 9(4D)6F149	-0.061 9(4G)6D153
129	-	146826.7	-	-	0.986 9(4G)4I158	0.159 9(4G)4I157	0.039 9(2F)2H216	-
130	-	147564.7	-	-	0.927 10(4G4I251)	-0.285 10(4G2G299)	-0.145 10(4G2H287)	0.134 10(2I4I252)
131	-	147726.0	-	-	-0.963 9(4G)4G174	-0.152 9(4D)4G175	-0.149 9(4G)4G173	-0.092 9(4G)4F189
132	-	147776.0	-	-	-0.904 10(4G2G299)	-0.294 10(4G4I251)	-0.123 10(4F2G300)	-0.117 10(2I2G301)
133	-	147882.8	-	-	-0.852 9(4P)6D156	-0.316 9(4G)6D153	-0.294 9(4G)4F189	0.172 9(4D)6D155
134	-	148115.7	-	-	0.895 9(4G)4F189	-0.293 9(4P)6D156	-0.210 9(4P)4F195	0.133 9(4G)4F188
135	-	148684.3	-	-	-0.974 9(4G)4H164	-0.157 9(2I)4H167	-0.138 9(4G)4H163	-0.056 9(2H)4H168
136	-	149672.5	-	-	0.994 7(1F)2H108	-0.072 7(3F)2H103	-0.040 7(3F)4H 85	-0.034 7(3F)2H104

137	-	149737.1	-	-	0.759	10(4G4H255	0.498	10(4G4H254	0.280	10(4G2H287	-0.237	10(4G4G262
138	-	149943.5	-	-	-0.893	10(4G4G262	0.202	10(4P4F279	0.190	10(4G4G261	-0.163	10(4G4H255
139	-	150026.9	-	-	0.936	9(4D)6G146	0.259	9(4D)6F149	0.151	9(4F)4F195	-0.139	9(4D)6F150
140	-	150135.2	-	-	0.997	7(1F)2G117	-0.039	7(3F)4G 90				
141	-	150225.6	-	-	0.747	10(4P4F279	-0.297	10(4D4F278	0.272	10(4G4F273	0.270	10(4D4F277
142	-	150242.0	-	-	-0.921	9(4D)6F149	0.261	9(4D)6G146	-0.169	9(4P)6F150	0.164	9(4P)6D156
143	-	150638.8	-	-	0.923	10(4G2H287	-0.224	10(4G4H255	-0.174	10(4G4H254	0.141	10(4G4I251
144	-	150850.8	-	-	0.907	9(4P)4F195	0.187	9(4D)4F193	-0.182	9(4G)4F189	-0.176	9(4D)6F149
145	-	150852.5	-	-	0.997	8(4G)4G125	-0.062	8(4G)4G126	-0.038	8(2F)4F131		
146	-	150943.6	-	-	0.635	10(4G4F272	-0.558	10(4G4F273	0.429	10(4D4F277	0.181	10(4P4F279
147	-	151287.8	-	-	-0.999	8(4G)2G135						
148	-	151814.6	-	-	0.944	9(4D)6D155	0.308	9(4G)6D153	0.076	9(4P)6D156	0.053	9(6S)6D152
149	-	152271.4	-	-	0.877	5(3F)4F 30	0.478	5(3F)4F 31	-0.041	5(1G)2G 34		
150	-	152977.7	-	-	-0.710	10(4D4F277	-0.393	10(4G4F273	-0.364	10(4D4F278	0.236	10(4P4F279
151	-	153233.9	-	-	0.742	10(4D4G266	-0.397	10(4G4G263	-0.284	10(4F4G265	-0.248	10(4P4F279
152	-	153704.4	-	-	-0.903	9(4D)4F193	0.320	9(4D)4G178	-0.159	9(4G)4F189	-0.138	9(4D)4F192
153	-	153985.5	-	-	0.895	9(4D)4G178	0.295	9(4D)4F193	-0.192	9(4P)4F195	0.136	9(4D)4G177
154	-	155024.3	-	-	0.745	10(4D4F278	0.396	10(4P4F278	-0.303	10(4D4F277	0.263	10(4G4G263
155	-	155452.6	-	-	0.997	8(2I)4I123	0.049	8(2H)4H124	0.039	8(2H)2H133	0.034	8(2H)2H134
156	-	155636.8	-	-	-0.772	10(4G4G263	-0.461	10(4D4G266	0.284	10(4D4F278	0.174	10(4P4F279
157	-	156437.7	-	-	0.997	8(4P)6F121	-0.047	8(2G)4G128	-0.043	8(2F)4F132	-0.038	8(4D)6D122
158	-	157803.4	-	-	0.920	9(4G)2G219	0.313	9(4G)4H163	0.138	9(4D)2G221	-0.133	9(4G)4F188
159	-	157851.1	-	-	-0.872	10(2I4I252	0.362	10(2I4I252	0.203	10(2H4H258	0.135	10(2G4H260
160	-	157875.7	-	-	0.928	9(4G)4H163	-0.304	9(4G)2G219	-0.140	9(4G)4H164	-0.092	9(4G)4I157
161	-	158040.7	-	-	0.978	9(4G)4I157	-0.158	9(4G)4I158	0.089	9(4G)4H163	0.072	9(4G)2H205
162	-	158064.6	-	-	-0.975	9(4G)4F188	-0.146	9(4G)2G219	0.141	9(4C)4F189	-0.045	9(4F)4F190
163	-	158079.6	-	-	-0.874	7(3F)4H 85	-0.480	7(3F)4H 86	0.046	7(3F)2H103	-0.043	7(1F)2H108
164	-	158143.6	-	-	0.983	9(4G)4G173	-0.152	9(4G)4G174	-0.047	9(4G)2H205	-0.045	9(4G)2G219
165	-	158515.1	-	-	0.688	7(3F)4F 96	0.465	7(3F)4F 99	0.399	7(3P)4F100	0.385	7(3F)4F 97
166	-	158698.1	-	-	0.971	9(4G)2H205	0.147	9(2I)2H207	-0.120	9(2I)2H208	-0.071	9(4G)4I157
167	-	158705.7	-	-	-0.913	10(2I4I252	-0.349	10(2I4H257	0.133	10(4G4I251	-0.081	10(4F6G243
168	-	158727.1	-	-	0.860	7(3F)4G 90	0.492	7(3F)4G 91	-0.093	7(3F)2H103	-0.051	7(3F)2H104
169	-	158824.4	-	-	0.970	10(4F6G243	-0.159	10(4F6F245	-0.097	10(4G6G242	-0.070	10(2I4I252
170	-	158852.3	-	-	-0.994	8(4F)4F130	0.066	8(2G)2G139	-0.061	8(4F)4F129	0.030	8(2G)4G128
171	-	158984.7	-	-	-0.857	7(3F)2H103	-0.476	7(3F)2H104	-0.094	7(3F)4G 90	0.081	7(3F)2G111
172	-	159166.1	-	-	0.862	7(3F)2G111	0.495	7(3F)2G112	0.084	7(3F)2H103	0.044	7(3F)2H104
173	-	159460.7	-	-	0.801	5(1G)2G 34	0.596	5(1G)2G 35	0.037	5(3F)4F 30		
174	-	159654.1	-	-	0.601	7(3F)4F 99	-0.532	7(3F)4F 96	0.512	7(3P)4F100	-0.302	7(3F)4F 97
175	-	159711.7	-	-	-0.996	8(2F)4F131	-0.043	8(2G)4G128	-0.039	8(4G)4G125	0.030	8(4D)6D122
176	-	160439.5	-	-	-0.542	10(2F4G270	0.490	10(2D4F286	-0.336	10(4F6F245	0.276	10(2D4F284
177	-	160639.3	-	-	0.822	10(4F6D248	-0.333	10(2I2H289	-0.222	10(2I2H289	0.219	10(4D6D249
178	-	160711.1	-	-	0.614	10(2I2H288	0.411	10(4F6D248	0.409	10(2I2H289	0.250	10(2G2H295
179	-	160864.0	-	-	0.957	9(4P)4F194	0.163	9(4D)4G177	-0.147	9(4P)4F195	-0.087	9(4D)2G221
180	-	160887.6	-	-	0.841	10(4F6F245	-0.306	10(2F4G270	0.191	10(2D4F286	0.169	10(4F6D248
181	-	161372.0	-	-	0.996	9(2I)4I159	0.043	9(2H)4H168	0.037	9(2H)2H209	-0.035	9(2H)4I160
182	-	161541.5	-	-	-0.582	10(2F4G270	-0.517	10(2D4F286	-0.289	10(2D4F284	-0.274	10(2F2G310
183	-	162477.5	-	-	-0.819	9(2I)4G179	0.400	9(4F)6F148	-0.222	9(4F)6H143	-0.177	9(4F)6G145
184	-	162523.0	-	-	0.904	10(2F4F282	0.198	10(2F4F283	0.125	10(4G4F273	-0.124	10(4G4F272
185	-	162559.0	-	-	0.880	9(4P)6F148	0.312	9(4P)6H143	0.267	9(2I)4G179	0.126	9(4F)6G145
186	-	162632.6	-	-	0.831	9(4P)6H143	-0.387	9(2I)4G179	0.283	9(4F)6G145	-0.221	9(4F)6F148
187	-	162796.2	-	-	0.921	9(4P)6G145	-0.351	9(4P)6H143	-0.090	9(2I)4G179	0.076	9(4D)6G146
188	-	163229.3	-	-	0.600	10(2F2G310	-0.379	10(2D2G316	-0.346	10(2F2G311	-0.280	10(2D4F286
189	-	163417.0	-	-	-0.904	9(2I)4H167	0.252	9(4F)4H166	0.185	9(2F)4H171	0.154	9(4D)2G221
190	-	163817.8	-	-	0.957	8(2H)4H124	0.275	8(2G)4G128	0.047	8(2G)2G139	-0.046	8(2I)4I123
191	-	163865.0	-	-	0.886	9(4D)2G221	0.234	9(4D)4G177	-0.192	9(2I)2G223	0.178	9(2I)4H167
192	-	163938.6	-	-	-0.772	10(2I2G301	-0.358	10(2G2G307	0.342	10(2H2G302	-0.160	10(2F2G310
193	-	163961.4	-	-	0.898	9(2I)2H208	0.390	9(2I)2H207	-0.148	9(4D)2G221	0.050	9(4G)2H205
194	-	164177.0	-	-	0.910	9(4D)4G177	-0.199	9(4D)2G221	0.182	9(4D)4F192	0.176	9(2D)4G187
195	-	164219.2	-	-	-0.888	9(4D)4F192	0.173	9(4D)4G177	-0.168	9(2D)4G187	-0.168	9(2F)4G183
196	-	164328.9	-	-	0.577	10(2H4G267	-0.434	10(2G4G269	0.309	10(2H4I253	-0.308	10(2F4G270
197	-	164358.1	-	-	-0.659	9(2D)4G187	-0.373	9(2D)4G185	0.342	9(2F)4H171	0.314	9(4D)4F192
198	-	164579.9	-	-	0.985	9(4F)6D154	-0.103	9(4D)4F192	0.061	9(4P)6D156	-0.058	9(2D)4F203
199	-	164581.4	-	-	-0.817	10(2H4I253	0.258	10(2H4G267	0.244	10(4F4G264	-0.166	10(2H2H290
200	-	164993.6	-	-	0.560	9(2I)2G223	0.477	9(2D)4F203	-0.312	9(2F)4G183	0.267	9(2D)4F201
201	-	165019.3	-	-	0.749	10(4F4G269	0.405	10(2G4G269	0.315	10(2H4I253	-0.164	10(4P4F274
202	-	165178.4	-	-	-0.934	8(2G)4G128	0.272	8(2H)4H124	0.199	8(2H)2H134	0.062	8(2G)2G139
203	-	165195.7	-	-	0.541	10(2F2H297	0.321	10(2H2H290	-0.279	10(2D2G316	-0.272	10(2H4I253
204	-	165274.5	-	-	0.641	9(2I)2G223	-0.480	9(2D)4F203	0.298	9(2F)4G183	-0.269	9(2D)4F201
205	-	165486.5	-	-	-0.786	7(1G)2G115	-0.615	7(1G)2G116	-0.034	7(3F)4F 96		
206	-	165649.6	-	-	0.593	10(2H4H258	0.509	10(2G4H260	-0.268	10(2I2H289	0.242	10(2H2H290
207	-	165749.0	-	-	-0.789	7(1G)2H106	-0.606	7(1G)2H107	0.070	7(3F)2H103	0.043	7(3F)2H104
208	-	165766.6	-	-	-0.730	9(4P)4G176	-0.488	9(2F)4G183	-0.346	9(2D)4F203	-0.195	9(2D)4F201
209	-	165795.9	-	-	-0.945	8(2H)2H134	-0.226	8(2G)2G139	-0.207	8(2G)4G128	-0.083	8(2H)2H133
210	-	165913.0	-	-	0.482	10(2I2H289	0.416	10(2G4H260	-0.327	10(2H2H290	-0.310	10(2D2G316
211	-	165974.0	-	-	0.627	9(4F)4H166	-0.590	9(2F)4H171	-0.315	9(2D)4G187	-0.173	9(2D)4G185
212	-	166197.1	-	-	-0.960	9(2F)4F199	-0.152	9(4F)4F191	-0.105	9(2G)4F198	-0.094	9(2D)4F196
213	-	166331.6	-	-	-0.534	10(4F4H256	0.440	10(2I2H289	-0.337	10(2G4H260	-0.331	10(2I2H288
214	-	166504.8	-	-	0.593	9(4F)4H166	0.501	9(2F)4H171	-0.316	9(4F)4G176	-0.239	9(2D)4H168
215	-	166666.9	-	-	0.620	10(4F4F274	-0.328	10(4F4H256	0.245	10(2H4H258	-0.241	10(2G4H260
216	-	166708.5	-	-	-0.569	10(4F4F274	-0.316	10(4F4H256	-0.295	10(2D2G316	-0.242	10(2I2H289
217	-	166887.3	-	-	-0.579	9(2F)4G183	0.439	9(4F)4G176	0.347	9(2F)4H171	0.257	9(2D)4G187
218	-	167083.9	-	-	-0.956	8(2G)2G139	0.217	8(2H)2H134	-0.122	8(2G)2G138	0.116	8(2H)2H133
219	-	167467.4	-	-	-0.650	10(2F2G311	0.432	10(4F2G300	-0.351	10(2F2G310	0.177	10(2H2G303
220	-	167610.8	-	-	-0.868	9(4F)4F191	0.378	9(2H)4F196	0.151	9(2D)2G239	-0.119	9(4F)4F190
221	-	167865.3	-	-	-0.869	6(1D)2G 77	-0.492	6(1D)2G 76	0.031	6(1G)2G 74		
222	-	167943.3	-	-	-0.629	9(2D)2G239	0.446	9(2F)2H216	-0.352	9(2D)2G235	0.305	9(2D)2G231
223	-	168126.5	-	-	0.779	10(2G4F281	-0.352	10(4F4F274	0.340	10(4F4F275	-0.173	10(2D4F285
224	-	168265.2	-	-	0.569	10(2F2H297	-0.460	10(2G2H295	0.326	10(2F2G311	-0.281	10(2H2H290
225	-	168539.9	-	-	0.972	8(2F)4F132	0					

14	102584.963	102550.6	-34.4	5S	(3G) 4G	-0.991	4(3G) 4G 10	0.106	4(3H) 4H 9	-0.083	4(3H) 2H 12		
15	103751.660	103748.7	-2.9	4D	(3H) 4H	0.951	6(3H) 4G 27	0.224	6(3F) 4G 30	0.154	6(3G) 4G 28	-0.109	6(3F) 4G 29
16	103936.600	103809.7	-126.9	5D	(5D) 6F	-0.983	7(5D) 6F 46	0.175	7(5D) 6G 45	-0.037	7(5D) 4G 54		
17	-	103847.3	-	-	-	-0.884	6(3H) 4H 22	0.337	6(3H) 4I 20	-0.274	6(3H) 4K 19	-0.113	6(3F) 4H 25
18	-	103885.3	-	-	-	-0.876	6(3H) 4K 19	0.359	6(3H) 4H 22	0.251	6(3H) 4I 20	-0.101	6(3G) 4I 21
19	104174.270	104105.4	-68.9	4D	(3H) 4I	0.884	6(3H) 4I 20	0.369	6(3H) 4K 19	0.218	6(3H) 4H 22	-0.088	6(3G) 4I 21
20	104593.270	104621.7	28.4	5D	(5D) 6G	0.929	7(5D) 6G 45	0.334	7(5D) 4G 54	0.153	7(5D) 6F 46		
21	-	104788.3	-	-	-	-0.861	6(3H) 2I 32	-0.341	6(3F) 4G 30	0.206	6(3F) 4G 29	0.137	6(3F) 4H 25
22	104863.430	104951.0	87.5	5D	(5D) 4G	0.941	7(5D) 4G 54	-0.324	7(5D) 6G 45	-0.093	7(5D) 6F 46		
23	105063.550	105045.8	-17.8	4D	(3F) 4G	-0.719	6(3F) 4G 30	0.452	6(3H) 2I 32	0.429	6(3H) 4G 29	0.198	6(3H) 4G 27
24	105398.852	105367.3	-31.5	4D	(3F) 4H	-0.802	6(3F) 4H 25	0.448	6(3F) 4H 24	-0.208	6(3F) 2H 40	-0.173	6(3F) 4G 30
25	105763.270	105831.9	68.7	4D	(3F) 2H	-0.785	6(3F) 2H 40	0.438	6(3F) 2H 39	0.313	6(3H) 2H 37	0.209	6(3F) 4H 25
26	-	106218.6	-	-	-	0.847	6(3H) 2H 37	0.341	6(3G) 2H 38	0.263	6(3F) 2H 40	-0.194	6(1I) 2H 41
27	108630.429	108636.6	6.1	5S	(1I) 2I	-0.999	4(1I) 2I 11	0.047	4(3H) 2H 12				
28	-	108898.5	-	-	-	0.889	6(3G) 4G 28	-0.398	6(3G) 4H 23	-0.156	6(3H) 4G 27	-0.096	6(3H) 4H 22
29	-	109071.7	-	-	-	0.897	6(3G) 4H 23	0.389	6(3G) 4H 28	0.105	6(3G) 2H 38	0.097	6(3F) 4G 30
30	-	109378.3	-	-	-	-0.968	6(3G) 4I 21	-0.162	6(3G) 2I 33	-0.110	6(3H) 4I 20	-0.100	6(3F) 4H 25
31	109486.150	109508.2	22.0	4SD	(7S) 8D	1.000	9(6S) 8D 85						
32	-	110041.0	-	-	-	0.966	6(3G) 2I 33	-0.166	6(3G) 4I 21	0.138	6(3H) 2I 32	0.096	6(3F) 2H 40
33	-	110410.9	-	-	-	-0.875	6(3G) 2H 38	-0.368	6(1I) 2H 41	0.262	6(3H) 2H 37	0.092	6(3G) 4H 23
34	-	113276.3	-	-	-	0.779	6(1G) 2H 43	-0.592	6(1G) 2H 42	-0.161	6(1I) 2H 41	-0.074	6(3F) 4G 30
35	-	113469.0	-	-	-	0.769	6(1G) 2I 36	-0.602	6(1G) 2I 35	-0.176	6(1I) 2I 34	-0.072	6(3F) 2H 40
36	-	114591.3	-	-	-	-0.980	6(1I) 2I 34	-0.130	6(1G) 2I 35	-0.120	6(1G) 2I 36	-0.062	6(1I) 2H 41
37	-	116319.8	-	-	-	-0.993	6(3D) 4G 31	0.095	6(3G) 4G 28	0.047	6(3F) 4G 30	-0.031	6(1F) 2H 44
38	-	117192.8	-	-	-	0.885	6(1I) 2H 41	0.300	6(3H) 2H 37	-0.282	6(3G) 2H 38	0.133	6(1G) 2H 43
39	-	121948.6	-	-	-	0.948	5(3H) 4H 13	0.306	5(3H) 2H 16	0.076	5(3G) 4G 14	0.038	5(1I) 2I 15
40	-	122275.2	-	-	-	-0.949	5(3H) 2H 16	0.299	5(3H) 4H 13	0.097	5(3G) 4G 14	-0.034	5(1I) 2I 15
41	-	124291.1	-	-	-	0.944	7(3H) 4G 55	-0.282	7(3H) 4H 50	0.120	7(3F) 4G 58	0.077	7(3G) 4G 56
42	-	124374.8	-	-	-	0.884	7(3H) 4H 50	-0.325	7(3H) 4I 48	0.271	7(3H) 4G 55	0.138	7(3H) 4K 47
43	-	124443.5	-	-	-	0.875	7(3H) 4K 47	-0.366	7(3H) 4I 48	-0.253	7(3H) 4H 50	-0.109	7(3H) 2I 60
44	-	124570.6	-	-	-	-0.853	7(3H) 4I 48	-0.443	7(3H) 4K 47	-0.232	7(3H) 4H 50	-0.081	7(3H) 2I 60
45	-	124970.9	-	-	-	-0.971	7(3H) 2I 60	0.104	7(3H) 4I 48	-0.099	7(3F) 4G 58	0.090	7(3G) 2I 61
46	-	125559.2	-	-	-	-0.804	7(3F) 4G 58	0.470	7(3F) 4G 57	0.200	7(3F) 4H 53	0.137	7(3H) 2I 60
47	-	125780.3	-	-	-	0.637	7(3F) 4H 53	-0.419	7(3H) 2H 65	0.393	7(3F) 2H 68	-0.357	7(3F) 4H 52
48	-	125889.7	-	-	-	-0.739	7(3H) 2H 65	-0.504	7(3F) 4H 53	0.282	7(3F) 4H 52	0.224	7(3F) 2H 68
49	-	126156.6	-	-	-	-0.730	7(3F) 2H 68	-0.429	7(3H) 2H 65	0.418	7(3F) 2H 67	0.194	7(3F) 4H 53
50	-	126201.3	-	-	-	-0.992	5(3G) 4G 14	0.102	5(3H) 4H 13	-0.069	5(3H) 2H 16		
51	-	129359.5	-	-	-	-0.991	6(1F) 2H 44	-0.061	6(1I) 2H 41	-0.060	6(3H) 2H 37	0.055	6(3F) 2H 39
52	-	129372.0	-	-	-	0.912	7(3G) 4G 56	-0.377	7(3G) 4H 51	-0.099	7(3H) 4G 55	-0.075	7(3H) 4H 50
53	-	129547.6	-	-	-	-0.896	7(3G) 4H 51	-0.363	7(3G) 4G 56	-0.173	7(3G) 2H 66	0.111	7(3G) 4I 49
54	-	129765.5	-	-	-	-0.953	7(3G) 4I 49	-0.234	7(3G) 2I 61	-0.121	7(3G) 4H 51	-0.082	7(3F) 4H 53
55	-	130156.2	-	-	-	-0.958	7(3G) 2I 61	0.240	7(3G) 4I 49	-0.090	7(3H) 2I 60	-0.085	7(3F) 2H 68
56	-	130338.3	-	-	-	-0.934	7(3G) 2H 66	-0.206	7(1I) 2H 69	0.194	7(3H) 2H 65	0.146	7(3G) 4H 51
57	-	132101.8	-	-	-	-0.999	5(1I) 2I 15	0.044	5(3H) 2H 16				
58	-	133702.8	-	-	-	0.780	7(1G) 2H 71	-0.598	7(1G) 2H 70	-0.150	7(1I) 2H 69	-0.065	7(3F) 4G 58
59	-	133818.3	-	-	-	-0.776	7(1G) 2I 64	0.608	7(1G) 2I 63	0.127	7(1I) 2I 62	-0.063	7(3H) 4K 47
60	-	134737.8	-	-	-	0.989	7(1I) 2I 62	-0.090	7(1G) 2I 63	0.089	7(1G) 2I 64	0.063	7(1I) 2H 69
61	-	135853.7	-	-	-	0.954	7(1I) 2H 69	-0.178	7(3G) 2H 66	0.169	7(3H) 2H 65	0.118	7(1G) 2H 71
62	-	136756.5	-	-	-	-0.997	7(3D) 4G 59	0.055	7(3G) 4G 56				
63	-	137444.9	-	-	-	0.874	6(3F) 4H 24	0.480	6(3F) 4H 25	0.061	6(1F) 2H 44		
64	-	137717.0	-	-	-	1.000	8(4G) 6G 73						
65	-	138532.9	-	-	-	0.855	6(3F) 4G 29	0.502	6(3F) 4G 30	-0.098	6(3F) 2H 39	-0.054	6(3F) 2H 40
66	-	139073.6	-	-	-	-0.851	6(3F) 2H 39	-0.485	6(3F) 2H 40	-0.101	6(3F) 4G 29	-0.091	6(1G) 2H 42
67	-	139445.6	-	-	-	0.991	10(4G6H152)	-0.085	10(4G6G153)	0.072	10(4G6F155)	0.040	10(4G4H162)
68	-	139847.5	-	-	-	-0.971	10(4G6F155)	0.160	10(4F6F156)	0.123	10(4G6G153)	0.084	10(4G6H152)
69	-	140148.3	-	-	-	-0.998	8(4G) 4G 78	-0.061	8(4G) 4G 77				
70	-	142096.6	-	-	-	0.981	10(4G6G153)	0.130	10(4G6F155)	0.106	10(4F6G154)	0.073	10(4G6H152)
71	-	143779.7	-	-	-	0.992	9(4G) 6H 87	-0.108	9(4G) 6I 86	-0.049	9(4F) 6H 88		
72	-	143939.7	-	-	-	-0.998	9(4G) 6F 92	-0.049	9(4F) 6F 93	-0.032	9(4D) 6F 94		
73	-	143980.4	-	-	-	-0.993	9(4G) 6I 86	-0.108	9(4G) 6H 87				
74	-	144043.1	-	-	-	-0.999	9(4G) 6G 89						
75	-	144797.9	-	-	-	0.781	10(4G4H162)	-0.532	10(4G4H163)	-0.247	10(4G4G169)	-0.123	10(2I4H165)
76	-	144828.2	-	-	-	-0.781	6(1G) 2I 35	-0.619	6(1G) 2I 36	-0.037	6(1G) 2H 42	-0.036	6(3F) 2H 39
77	-	145665.4	-	-	-	0.913	10(4G4G169)	0.217	10(4G4H162)	0.180	10(4G4G170)	0.155	10(4D4G174)
78	-	145743.2	-	-	-	-0.788	6(1G) 2H 42	-0.596	6(1G) 2H 43	0.114	6(3F) 2H 39	0.069	6(3F) 2H 40
79	-	146679.9	-	-	-	-0.984	10(4D6F157)	-0.121	10(4F6F156)	-0.088	10(4G4G169)	0.044	10(4D4G174)
80	-	146815.8	-	-	-	0.962	9(4F) 6F 95	-0.195	9(4G) 4I 99	0.158	9(4D) 6G 91	-0.065	9(4D) 6F 94
81	-	146835.8	-	-	-	0.967	9(4G) 4I 99	0.195	9(4F) 6F 95	0.157	9(4G) 4I 98		
82	-	147656.8	-	-	-	0.976	10(4G4I159)	0.141	10(2I4I160)	-0.094	10(4G2H187)	0.089	10(4G4H163)
83	-	147744.5	-	-	-	0.971	9(4G) 4G115	0.150	9(4D) 4G119	0.149	9(4G) 4G114	-0.071	9(2I) 4G120
84	-	148698.7	-	-	-	-0.974	9(4G) 4H105	-0.157	9(2I) 4H108	-0.137	9(4G) 4H104	-0.054	9(2H) 4H109
85	-	149719.0	-	-	-	-0.997	7(1F) 2H 72	0.045	7(3F) 4H 52				
86	-	149767.4	-	-	-	-0.714	10(4G4G170)	0.466	10(4G4H163)	0.362	10(4G2H187)	0.304	10(4G4H162)
87	-	149916.6	-	-	-	-0.658	10(4G4G170)	-0.512	10(4G4H163)	-0.365	10(4G2H187)	-0.349	10(4G4H162)
88	-	150054.8	-	-	-	0.982	9(4D) 6G 91	-0.155	9(4F) 6F 95	0.067	9(4D) 6F 94	-0.055	9(4F) 6G 90
89	-	150122.8	-	-	-	-0.993	9(4D) 6F 94	-0.077	9(4F) 6F 95	0.053	9(4D) 6G 91	-0.036	9(4F) 6G 90
90	-	150490.4	-	-	-	0.820	10(4G2H187)	-0.414	10(4G4H163)	-0.317	10(4G4H162)	0.107	10(2I2H189)
91	-	150854.3	-	-	-	0.997	8(4G) 4G 77	-0.061	8(4G) 4G 78	-0.031	8(2H) 2H 83	-0.031	8(4F) 6F 74
92	-	153252.0	-	-	-	0.799	10(4D4G174)	-0.410	10(4G4G171)	-0.296	10(4F4G173)	-0.178	10(2G4G177)
93	-	153892.2	-	-	-	-0.962	9(4D) 4G119	-0.146	9(2I) 4G120	-0.144	9(4D) 4G118	0.138	9(4G) 4G115
94	-	155461.5	-	-	-	-0.997	8(2I) 4I 75	-0.062	8(2H) 4H 76				
95	-	155465.2	-	-	-	-0.824	10(4G4G171)	-0.490	10(4D4G174)	-0.165	10(4F4G173)	-0.143	10(2F4G178)
96	-	155908.6	-	-	-	0.989	10(2I4F158)	-0.080	10(2I4I160)	0.072	10(2I2I180)	0.065	10(2H2I183)
97	-	156420.7	-	-	-	-0.997	8(4F) 6F 74	0.069	8(2G) 4G 80	-0.031	8(4G) 4G 77		
98	-	156922.5	-	-	-	0.998	9(4G) 2I129	-0.043	9(2F) 2H148	-0.035	9(2F) 2H149		
99	-	157382.8	-	-	-	-0.991	8(2I) 2I 82	-0.114	8(2I) 2I 81	-0.053	8(2H) 2H 84	0.031	8(2H) 2H 83

114	-	161486.3	-	-	0.833	10(2F4G178	0.309	10(2I2H188	0.252	10(2H4G175	0.189	10(2I2H189
115	-	161620.2	-	-	0.994	9(2I)4K 96	-0.058	9(2H)4K 97	0.057	9(2I)4I100	0.048	9(2H)4I101
116	-	162267.8	-	-	-0.972	8(2I)2I 81	0.152	8(2H)4H 76	0.137	8(2H)2H 84	0.109	8(2I)2I 82
117	-	162444.5	-	-	0.827	9(2I)4G120	-0.450	9(4F)6F 93	0.131	9(4F)6G 90	-0.126	9(2D)4G128
118	-	162603.7	-	-	-0.848	9(4F)6F 93	-0.347	9(2I)4G120	-0.337	9(4F)6H 88	0.115	9(2D)4G128
119	-	162660.0	-	-	-0.840	9(4F)6H 88	-0.357	9(4F)6G 90	0.299	9(2I)4G120	0.246	9(4F)6F 93
120	-	162796.4	-	-	0.912	9(4F)6G 90	-0.381	9(4F)6H 88	0.080	9(4F)6F 93	0.069	9(4D)6G 91
121	-	163458.1	-	-	-0.919	9(2I)4H108	0.261	9(4F)4H107	0.177	9(2F)4H112	0.125	9(4G)4H105
122	-	163894.5	-	-	0.941	8(2H)4H 76	0.288	8(2G)4G 80	0.142	8(2I)2I 81	-0.074	8(2H)2H 84
123	-	163895.0	-	-	-0.969	10(2I2I181	0.117	10(2G2I185	-0.087	10(2H2H191	0.082	10(2I2I180
124	-	163955.3	-	-	0.902	9(2I)2H141	0.399	9(2I)2H140	0.072	9(2I)4H108	-0.070	9(2H)4G121
125	-	164111.3	-	-	-0.975	9(4D)4G118	0.140	9(4D)4G119	-0.074	9(2F)4H112	0.060	9(2I)4G120
126	-	164311.5	-	-	-0.645	10(2H4G175	0.427	10(2G4G177	0.316	10(2F4G178	0.223	10(2F4G179
127	-	164413.6	-	-	0.748	9(2D)4G128	0.423	9(2D)4G126	-0.366	9(2F)4H112	0.183	9(4F)4H107
128	-	164816.6	-	-	0.844	10(2H4I161	-0.296	10(4F4G172	0.212	10(2G4H168	0.198	10(2H2H190
129	-	165138.3	-	-	-0.911	8(2G)4G 80	0.291	8(2H)4H 76	0.260	8(2H)2H 84	0.088	8(2H)2H 83
130	-	165147.3	-	-	0.578	10(4F4G172	0.473	10(2H4I161	-0.378	10(2F2H197	-0.306	10(2H2H190
131	-	165260.6	-	-	-0.784	7(1G)2I 63	-0.618	7(1G)2I 64	-0.033	7(1G)2H 70	-0.030	7(3F)2H 67
132	-	165570.8	-	-	0.594	10(2F2H197	0.505	10(4F4G172	0.394	10(2H2H190	0.323	10(2G4G177
133	-	165615.8	-	-	-0.719	9(2F)4G124	-0.679	9(4F)4G117	-0.111	9(4F)4G116	0.052	9(2G)2H147
134	-	165680.1	-	-	0.539	10(2I2H189	-0.475	10(2H4H166	-0.452	10(2G4H168	-0.335	10(2I2H188
135	-	165722.1	-	-	-0.790	7(1G)2H 70	-0.606	7(1G)2H 71	0.059	7(3F)2H 67	0.035	7(3F)2H 68
136	-	165839.1	-	-	-0.565	10(2I2H189	-0.515	10(2H4H166	-0.385	10(2G4H168	0.370	10(2I2H188
137	-	165951.3	-	-	0.639	9(4F)4H107	-0.612	9(2F)4H112	-0.296	9(2D)4G128	-0.167	9(2F)4G124
138	-	166020.1	-	-	-0.943	8(2H)2H 84	-0.281	8(2G)4G 80	-0.124	8(2I)2I 81	-0.100	8(2H)2H 83
139	-	166544.3	-	-	0.734	10(4F4H164	0.504	10(2G4H166	-0.306	10(2H4H166	-0.149	10(2H4I161
140	-	166562.8	-	-	-0.547	9(4F)4G117	0.519	9(2F)4G124	0.415	9(4F)4H107	0.291	9(2F)4H112
141	-	166751.8	-	-	0.576	9(2F)4H112	0.449	9(4F)4H107	-0.338	9(2F)4G124	0.335	9(4F)4G117
142	-	167166.6	-	-	0.928	9(2I)2I131	0.193	9(2H)2I133	-0.171	9(2G)2I137	-0.151	9(4F)4H107
143	-	167826.7	-	-	-0.716	10(2H2I183	-0.420	10(2G2I186	0.343	10(2H2I184	-0.236	10(2I2I182
144	-	168324.0	-	-	0.493	10(2F2H197	-0.446	10(2G2H195	-0.358	10(2H2H190	-0.325	10(2I2I182
145	-	168607.1	-	-	0.925	9(2F)2H149	0.305	9(2F)2H148	-0.149	9(2D)4G128	-0.080	9(2D)4G126
146	-	168925.3	-	-	-0.472	10(2G4G177	0.469	10(2F4G179	-0.382	10(2I2I182	-0.355	10(2H2I184
147	-	169043.9	-	-	-0.439	10(2I2I182	-0.411	10(2H2I184	0.315	10(2G4G177	-0.290	10(2F4G179
148	-	169276.0	-	-	-0.920	9(2I)2I130	-0.227	9(2H)4I101	-0.151	9(2H)2I133	0.122	9(2H)2H143
149	-	169320.0	-	-	0.517	10(2H4H166	0.507	10(4F4H164	-0.464	10(2G4H168	0.297	10(4F4G173
150	-	169536.1	-	-	0.813	9(2H)4I101	-0.429	9(2G)4I103	-0.245	9(2I)2I130	-0.201	9(2H)4K 97
151	-	169965.8	-	-	-0.953	9(2H)4K 97	-0.271	9(2H)4I101	-0.063	9(2G)4I103	-0.063	9(2G)4H111
152	-	169978.1	-	-	0.795	10(4F4G173	0.222	10(2H4G175	-0.217	10(4G4G171	0.212	10(2G4G177
153	-	170603.4	-	-	-0.855	9(2H)4G121	0.312	9(2I)2H140	-0.195	9(2I)2H141	0.189	9(2G)4G123
154	-	170850.4	-	-	-0.989	8(2H)2H 83	0.120	8(2H)2H 84	-0.060	8(2G)4G 80	-0.039	8(2I)2I 82
155	-	171079.6	-	-	0.677	10(2H2H191	0.436	10(2F2H198	0.350	10(2G2H196	0.268	10(2H2H192
156	-	171181.6	-	-	-0.783	9(2G)4H111	-0.465	9(2H)4H109	-0.343	9(2G)4I103	-0.113	9(2G)4G123
157	-	171480.9	-	-	-0.714	9(2I)2H140	-0.326	9(2H)4G121	0.313	9(2G)4I103	0.287	9(2I)2H141
158	-	171574.7	-	-	0.567	9(2G)4I103	0.381	9(2H)4I101	0.334	9(2I)2H140	-0.314	9(2H)4H109
159	-	171821.4	-	-	0.715	10(2H2H190	-0.473	10(2G2H196	0.298	10(2H2H191	-0.282	10(2G2H195
160	-	171845.5	-	-	0.657	9(2H)4H109	-0.536	9(2G)4H111	0.238	9(2G)4I103	0.217	9(2G)4G123
161	-	172153.4	-	-	0.582	10(2I2I182	-0.546	10(2H2I183	0.398	10(2G2I186	-0.227	10(2G2H196
162	-	172537.1	-	-	0.809	9(2H)2H143	0.343	9(2H)2H142	-0.274	9(2G)4G123	0.213	9(2H)4H109
163	-	172555.1	-	-	0.694	10(2F4G179	0.495	10(2H4G175	0.329	10(2G4G177	0.237	10(2H2H191
164	-	173168.1	-	-	0.853	9(2G)4G123	0.339	9(2H)2H143	-0.197	9(2H)4H109	-0.145	9(4F)4G117
165	-	173816.4	-	-	0.816	9(2F)2H148	-0.327	9(2G)2H147	-0.275	9(2F)2H149	-0.202	9(2G)2I137
166	-	173949.0	-	-	0.180	9(2G)2H147	0.349	9(2F)2H148	0.262	9(2G)2H146	0.251	9(2G)2I133
167	-	174138.6	-	-	-0.633	10(2G2H195	0.533	10(2G2H196	0.341	10(2H2H190	0.227	10(2I2H189
168	-	174295.8	-	-	0.641	9(2H)2I133	0.563	9(2G)2I137	-0.308	9(2G)2H147	0.227	9(2G)2I136
169	-	174819.4	-	-	0.964	9(2F)4G125	-0.162	9(2H)4G121	-0.117	9(2G)4G123	-0.116	9(2F)4H113
170	-	175065.9	-	-	0.670	10(2H2I184	0.665	10(2G2I186	-0.266	10(2I2I182	0.090	10(2I2I180
171	-	175185.8	-	-	-0.966	9(2F)4H113	-0.144	9(4F)2H139	-0.101	9(2F)4G125	0.096	9(2F)2H148
172	-	175831.0	-	-	-0.616	9(2G)2I137	0.601	9(2H)2I133	0.326	9(4F)2H139	-0.231	9(2I)2I131
173	-	176237.5	-	-	-0.771	9(4F)2H139	0.342	9(2H)2H142	-0.320	9(2G)2I137	-0.195	9(4F)4H106
174	-	176588.9	-	-	0.719	10(2F2H198	-0.506	10(2H2H191	0.313	10(2H2H192	-0.197	10(2G2H196
175	-	176783.8	-	-	0.781	9(4F)4H106	0.568	9(4F)4G116	-0.115	9(4F)4H107	-0.113	9(4F)2H139
176	-	176852.0	-	-	0.771	9(4F)4G116	-0.544	9(4F)4H106	-0.182	9(2G)2H146	0.120	9(4F)2H139
177	-	177500.3	-	-	0.896	9(2F)2H151	0.349	9(2F)2H150	-0.171	9(2H)2H143	-0.151	9(4F)2H139
178	-	177820.2	-	-	0.862	9(2H)2I132	-0.413	9(2G)2I136	-0.141	9(2I)2I131	0.123	9(2H)2H142
179	-	179077.6	-	-	-0.796	9(2G)2H146	-0.381	9(2H)2H142	0.270	9(2G)2H147	-0.227	9(2G)2I136
180	-	179317.7	-	-	-0.797	9(2G)2I136	-0.393	9(2H)2I132	0.273	9(2H)2H142	0.271	9(2G)2I137
181	-	179933.5	-	-	-0.682	9(2H)2H142	0.433	9(2G)2H146	-0.336	9(4F)2H139	0.280	9(2H)2H143
182	-	182297.1	-	-	-0.845	10(2H2H192	0.409	10(2F2H198	0.281	10(2G2H196	0.091	10(2G2H195
183	-	182957.1	-	-	0.920	9(2F)2H150	-0.349	9(2F)2H151	0.079	9(4F)4H106	-0.079	9(2D)4G127
184	-	186858.8	-	-	-0.992	9(2D)4G127	-0.088	9(2F)2H150	0.057	9(2G)4G122	0.034	9(2F)4H113
185	-	188363.7	-	-	1.000	8(2G)4G 79	-0.288	10(2G4G176	-0.111	10(2I4H165	0.039	10(2G2H193
186	-	190355.9	-	-	0.947	10(2G4H167	0.945	10(2G4H167	0.076	10(2G4G177	0.062	10(4F4G173
187	-	191141.9	-	-	0.998	9(2G)4I102	0.968	10(2G2H193	0.159	10(2G2I185	-0.112	10(2I2H188
188	-	194455.8	-	-	-0.992	9(2G)4G123	-0.092	9(2G)4H110	-0.054	9(2D)4G127	-0.042	9(2D)4G126
189	-	194598.1	-	-	-0.994	9(2G)4H110	-0.091	9(2G)4G122	-0.091	9(2G)4G122	-0.091	9(2G)4G122
190	-	194805.9	-	-	0.961	10(2G2I185	-0.161	10(2G2H193	0.148	10(2I2I182	0.106	10(2I2I181
191	-	194929.7	-	-	0.937	9(2G)2H145	0.345	9(2G)2H144	-0.030	9(2G)2H147	-0.030	9(2G)2H147
192	-	196506.5	-	-	0.978	10(2G2H194	0.109	10(2I2H189	-0.107	10(2G2H196	0.076	10(2F2H198
193	-	197189.2	-	-	-0.951	9(2G)2I135	-0.302	9(2G)2I134	-0.041	9(2H)2I133	-0.041	9(2H)2I133
194	-	197243.1	-	-	-0.952	9(2G)2I134	0.302	9(2G)2I135	0.032	9(2G)2H144	0.032	9(2G)2H144
195	-	197947.4	-	-	0.937	9(2G)2H144	-0.345	9(2G)2H145	0.032	9(2G)2I134	0.032	9(2G)2I134
196	-	202255.6	-	-	-0.871	9(2D)4G126	0.489	9(2D)4G128	0.045	9(2G)4G122	0.045	9(2G)4G122
197	-	202698.0	-	-								
198	-	217586.6	-	-								

J 6.5 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2
 1 2 3 4 5 6 7 8 9 10

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS
1 21251.608	21386.2	134.6	D6S (3H) 4H	0.999 2(3H) 4H 1 0.046 2(1I) 2I 2
2 32875.646	33025.4	149.7	D6S (1I) 2I	-0.999 2(1I) 2I 2 0.046 2(3H) 4H 1

9	104315.370	104271.6	-43.8	4D (3H)2K	-0.925	6(3H)2K 16	0.268	6(3H)2I 18	0.187	6(3H)4K 9	-0.107	6(3G)2I 19
10	104366.820	104389.0	22.2	5D (5D)6G	0.999	7(5D)6G 23						
11	-	104676.1	-	-	-0.942	6(3H)2I 18	-0.281	6(3H)2K 16	0.106	6(3H)4I 10	0.091	6(3G)2I 19
12	105228.847	105227.2	-61.6	4D (3F)4H	-0.839	6(3F)4H 15	0.475	6(3F)4H 14	0.168	6(3H)4H 12	0.096	6(3G)4I 11
13	108648.695	108634.8	-13.9	5S (1I)2I	-0.999	4(1I)2I 5	0.050	4(3H)4H 4				
14	-	108804.4	-	-	0.993	6(3G)4H 13	-0.089	6(3H)4I 10	0.063	6(3H)2I 18	-0.034	6(3G)4I 11
15	-	109144.0	-	-	-0.926	6(3G)4I 11	-0.341	6(3G)2I 19	-0.088	6(3H)4I 10	0.088	6(3H)4K 9
16	-	109673.2	-	-	-0.926	6(3G)2I 19	0.332	6(3G)4I 11	-0.108	6(3H)2I 18	0.089	6(3F)4H 15
17	-	113470.6	-	-	0.768	6(1G)2I 22	-0.601	6(1G)2I 21	-0.185	6(1I)2I 20	-0.079	6(3F)4H 15
18	-	114373.8	-	-	0.996	6(1I)2K 17	-0.064	6(1I)2I 20	-0.041	6(3H)2I 18		
19	-	114607.4	-	-	-0.978	6(1I)2I 20	0.136	6(1G)2I 21	-0.126	6(1G)2I 22	-0.066	6(1I)2K 17
20	-	121824.7	-	-	0.999	5(3H)4H 6	0.049	5(1I)2I 7				
21	-	124253.8	-	-	0.947	7(3H)4H 27	-0.285	7(3H)4I 25	0.110	7(3H)4K 24	0.078	7(3F)4H 30
22	-	124329.3	-	-	0.837	7(3H)4K 24	-0.417	7(3H)4I 25	-0.220	7(3H)4H 27	0.191	7(3H)2K 31
23	-	124472.7	-	-	0.834	7(3H)4I 25	0.450	7(3H)4K 24	0.205	7(3H)2K 31	0.191	7(3H)4H 27
24	-	124637.3	-	-	-0.873	7(3H)2K 31	0.380	7(3H)2I 33	0.271	7(3H)4K 24	-0.085	7(3G)2I 34
25	-	124824.4	-	-	-0.894	7(3H)2I 33	-0.381	7(3H)2K 31	0.200	7(3H)4I 25	0.086	7(3H)4H 27
26	-	125687.3	-	-	-0.854	7(3F)4H 30	0.484	7(3F)4H 29	0.097	7(3H)4H 27	0.092	7(3G)4I 26
27	-	129333.0	-	-	0.989	7(3G)4H 28	-0.112	7(3G)4I 26	-0.079	7(3H)4I 25	0.051	7(3H)2I 33
28	-	129547.5	-	-	-0.857	7(3G)4I 26	-0.493	7(3G)2I 34	-0.098	7(3G)4H 28	0.078	7(3H)4K 24
29	-	129872.9	-	-	-0.862	7(3G)2I 34	0.482	7(3G)4I 26	0.092	7(3F)4H 30	0.076	7(3H)2K 31
30	-	132101.2	-	-	-0.999	5(1I)2I 7	0.049	5(3H)4H 6				
31	-	133817.3	-	-	0.776	7(1G)2I 37	-0.608	7(1G)2I 36	-0.131	7(1I)2I 35	-0.070	7(3F)4H 30
32	-	134622.6	-	-	-0.998	7(1I)2K 32	0.046	7(1I)2I 35	0.036	7(3H)2I 33		
33	-	134744.6	-	-	0.989	7(1I)2I 35	-0.093	7(1G)2I 36	0.092	7(1G)2I 37	0.046	7(1I)2K 32
34	-	137430.9	-	-	0.872	6(3F)4H 14	0.487	6(3F)4H 15	-0.039	6(1G)2I 21		
35	-	137713.2	-	-	1.000	8(4G)6G 38						
36	-	139611.6	-	-	0.995	10(4G)6H81	-0.071	10(4G)6G82	0.038	10(4G)4H88	-0.037	10(4G)4I85
37	-	142086.0	-	-	0.990	10(4G)6G82	0.108	10(4F)6G83	0.069	10(4G)6H81	-0.042	10(4G)4H89
38	-	143794.3	-	-	-0.990	9(4G)6H 44	0.124	9(4G)6I 43	0.046	9(4F)6H 45	0.031	9(4G)6G 46
39	-	143995.4	-	-	0.992	9(4G)6I 43	0.125	9(4G)6H 44				
40	-	144045.6	-	-	-0.999	9(4G)6G 46	-0.031	9(4G)6H 44				
41	-	144803.8	-	-	-0.800	10(4G)4H88	0.564	10(4G)4H89	0.127	10(2I)4H91	-0.106	10(4F)4H90
42	-	144831.8	-	-	-0.782	6(1G)2I 21	-0.620	6(1G)2I 22	-0.038	6(3F)4H 14		
43	-	146837.8	-	-	-0.987	9(4G)4I 53	-0.160	9(4G)4I 52				
44	-	147699.6	-	-	-0.981	10(4G)4I85	-0.142	10(2I)4I86	-0.091	10(4G)4H89	0.055	10(4G)4H88
45	-	148709.8	-	-	-0.975	9(4G)4H 59	-0.157	9(2I)4H 62	-0.136	9(4G)4H 58	-0.051	9(2H)4H 63
46	-	150002.8	-	-	-0.997	9(4D)6G 48	0.047	9(4F)6G 47	-0.035	9(4F)6H 45		
47	-	150271.5	-	-	-0.797	10(4G)4H89	-0.578	10(4G)4H88	0.135	10(4F)4H90	-0.071	10(2H)4H92
48	-	155478.6	-	-	0.998	8(2I)4I 39	0.059	8(2H)4H 40				
49	-	156114.4	-	-	0.990	10(2I)4K84	-0.101	10(2I)4I86	0.054	10(2H)4I87	0.039	10(2I)2K95
50	-	156931.6	-	-	-0.999	9(4G)2I 72						
51	-	157406.9	-	-	-0.991	8(2I)2I 42	-0.124	8(2I)2I 41	0.056	8(2H)4H 40		
52	-	157630.2	-	-	0.904	10(2I)4H91	-0.312	10(2I)4I86	-0.182	10(2H)4H92	0.124	10(4G)4H88
53	-	157917.9	-	-	-0.975	9(4G)4H 58	0.147	9(4G)4I 52	0.144	9(4G)4H 59	-0.044	9(2I)4H 62
54	-	158097.2	-	-	0.974	9(4G)4I 52	-0.159	9(4G)4I 53	0.148	9(4G)4H 58	-0.037	9(2F)4H 66
55	-	158098.9	-	-	-0.871	7(3F)4H 29	-0.490	7(3F)4H 30	0.035	7(1G)2I 36		
56	-	158798.7	-	-	-0.927	10(2I)4I86	-0.316	10(2I)4H91	0.135	10(4G)4I85	-0.085	10(2I)4K84
57	-	159236.8	-	-	0.978	10(4F)6G83	-0.116	10(2I)2I98	-0.105	10(4G)6G82	-0.075	10(2G)4H94
58	-	159306.7	-	-	-0.766	10(2I)2I98	0.496	10(2I)2K95	-0.270	10(2I)2K96	0.174	10(2G2I)104
59	-	160213.5	-	-	-0.738	10(2I)2K95	-0.553	10(2I)2I98	0.316	10(2I)2K96	0.123	10(2G2I)104
60	-	161409.5	-	-	-0.996	9(2I)4I 54	0.062	9(2I)4K 50	-0.051	9(2H)4H 63		
61	-	161493.8	-	-	0.985	9(2I)4L 49	-0.152	9(2I)4K 50	0.056	9(2H)4K 51	0.038	9(2H)2K 70
62	-	161644.4	-	-	0.983	9(2I)4K 50	0.156	9(2I)4L 49	0.060	9(2H)4I 55	0.060	9(2I)4I 54
63	-	162239.2	-	-	-0.952	8(2I)2I 41	0.273	8(2H)4H 40	0.135	8(2I)2I 42		
64	-	162676.4	-	-	0.936	9(4F)6H 45	0.341	9(4F)6G 47	-0.047	9(2G)4I 57	-0.045	9(2F)4H 67
65	-	162770.5	-	-	-0.935	9(4F)6G 47	0.339	9(4F)6H 45	0.068	9(2G)4H 65	-0.056	9(4D)6G 48
66	-	163441.6	-	-	0.881	10(2I)2K96	0.426	10(2I)2K95	-0.112	10(2H)2K97	0.099	10(2H2I)102
67	-	163493.9	-	-	0.923	9(2I)4H 62	-0.295	9(4F)4H 61	-0.156	9(2F)4H 66	-0.126	9(4G)4H 59
68	-	163945.1	-	-	0.983	10(2I)2I99	-0.117	10(2G2I)103	-0.070	10(2H2I)101	0.065	10(2I)4I86
69	-	164121.2	-	-	-0.958	8(2H)4H 40	-0.279	8(2I)2I 41	0.055	8(2I)4I 39		
70	-	164257.9	-	-	0.941	9(2I)2K 69	0.331	9(2I)2K 68	-0.043	9(2H)4I 55	0.032	9(2H)2I 76
71	-	165183.8	-	-	-0.973	10(2H)4I87	-0.158	10(2G)4H94	-0.092	10(2I)2K95	-0.069	10(4F)4H90
72	-	165259.7	-	-	0.785	7(1G)2I 36	0.618	7(1G)2I 37	0.034	7(3F)4H 29		
73	-	165734.0	-	-	0.788	9(2F)4H 66	-0.592	9(4F)4H 61	-0.092	9(4F)4H 60	0.063	9(2H)4H 63
74	-	165752.4	-	-	-0.714	10(2H)4H92	-0.620	10(2G)4H94	-0.219	10(2I)4H91	0.139	10(4F)4H90
75	-	166527.3	-	-	0.737	10(4F)4H90	0.470	10(2G)4H94	-0.304	10(2H)4H92	-0.200	10(2H2I)101
76	-	166618.1	-	-	0.638	9(4F)4H 61	0.547	9(2F)4H 66	0.313	9(2I)2I 74	-0.276	9(2H)4H 63
77	-	167189.4	-	-	0.889	9(2I)2I 74	-0.269	9(4F)4H 61	0.210	9(2H)2I 76	-0.186	9(2F)4H 66
78	-	168114.8	-	-	0.722	10(2H2I)101	0.371	10(2G2I)104	-0.325	10(2H2I)102	0.281	10(2I2I)100
79	-	169010.8	-	-	-0.717	10(2I2I)100	-0.571	10(2H2I)102	0.283	10(2G2I)104	-0.164	10(2H2I)101
80	-	169210.4	-	-	-0.656	9(2I)2K 68	0.517	9(2I)2I 73	0.391	9(2H)4I 55	0.248	9(2I)2K 69
81	-	169443.2	-	-	0.798	9(2I)2I 73	0.450	9(2I)2K 68	-0.213	9(2H)4I 55	-0.170	9(2I)2K 69
82	-	169450.5	-	-	-0.578	10(2H)4H92	0.566	10(2G)4H94	-0.550	10(4F)4H90	0.132	10(2G2I)104
83	-	169704.2	-	-	-0.676	9(2H)4I 55	-0.491	9(2I)2K 68	0.403	9(2G)4I 57	0.288	9(2H)4K 51
84	-	170002.6	-	-	-0.914	9(2H)4K 51	-0.379	9(2H)4I 55	-0.092	9(2G)4H 65	-0.060	9(2G)4I 57
85	-	170739.8	-	-	-0.960	10(2H)2K97	-0.159	10(2H2I)102	-0.145	10(2I)2K96	0.124	10(2H2I)101
86	-	171155.1	-	-	0.806	9(2G)4H 65	0.451	9(2H)4H 63	0.302	9(2G)4I 57	0.144	9(2I)2I 73
87	-	171562.1	-	-	-0.812	9(2G)4I 57	-0.412	9(2H)4I 55	0.280	9(2H)4H 63	0.209	9(2H)4K 51
88	-	171982.4	-	-	0.768	9(2H)4H 63	-0.522	9(2G)4H 65	0.193	9(4F)4H 61	0.143	9(2G)4I 57
89	-	172622.1	-	-	-0.592	10(2H2I)101	0.544	10(2I2I)100	0.482	10(2G2I)104	-0.231	10(2H2I)102
90	-	172733.8	-	-	-0.933	9(2H)2K 71	-0.314	9(2H)2K 70	-0.127	9(2G)4I 57	-0.082	9(2H)2I 80
91	-	174258.1	-	-	-0.699	9(2H)2I 76	-0.625	9(2G)2I 80	-0.225	9(2G)2I 79	-0.200	9(2H)2I 75
92	-	174992.7	-	-	-0.673	10(2H2I)102	-0.664	10(2G2I)104	0.272	10(2I2I)100	0.104	10(2H)2K97
93	-	175168.5	-	-	0.987	9(2F)4H 67	0.098	9(4F)4H 60	0.081	9(2I)4H 62	-0.046	9(4G)4H 59
94	-	176030.8	-	-	-0.670	9(2G)2I 80	0.619	9(2H)2I 76	-0.254	9(2I)2I 74	-0.200	9(2I)2I 73
95	-	176758.5	-	-	-0.940	9(4F)4H 60	0.233	9(2G)2I 79	0.152	9(4F)4H 61	-0.107	9(2H)2I 76
96	-	177814.5	-	-	0.881	9(2H)2I 75	-0.374	9(2G)2I 79	-0.145	9(4F)4H 60	-0.145	9(2H)2K 70
97	-	177848.8	-	-	0.912	9(2H)2K 70	-0.317	9(2H)2K 71	0.208	9(2H)2I 75	0.099	9(2G)2I 80
98	-	179412.2	-	-	0.857	9(2G)2I 79	0.336	9(2H)2I 75	-0.271	9(2G)2I 80	0.185	9(4F)4H 60
99	-	190671.7	-	-	0.989	10(2G)4H93	-0.115	10(2I)4H91	-0.071	10(2G2I)103	-0.045	10(2G)4H94
100	-	194447.9	-	-								

J 7.5		26.01	D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2												
			1	2	3	4	5	6	7	8	9	10			
OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS											
1	-	-	-	0.916	6(3H)4K	1	-0.333	6(3H)4I	2	0.198	6(3H)2K	5	0.090	6(3G)4I	3
2	103878.340	103854.0	-24.4	0.891	6(3H)4I	2	0.365	6(3H)2K	5	0.253	6(3H)4K	1	-0.077	6(3G)4I	3
3	104119.710	104087.7	-32.1	0.907	6(3H)2K	5	-0.299	6(3H)4K	1	-0.291	6(3H)4I	2	-0.049	6(3G)4I	3
4	-	108944.2	-	0.992	6(3G)4I	3	0.085	6(3H)4I	2	-0.079	6(3H)4K	1	0.055	6(3H)2K	5
5	-	113645.6	-	0.999	6(1I)2L	4	-0.045	6(3H)2K	5	-	-	-	-	-	-
6	-	114374.0	-	-0.999	6(1I)2K	6	0.048	6(3H)4I	2	-	-	-	-	-	-
7	-	124217.7	-	0.876	7(3H)4K	7	-0.369	7(3H)4I	8	0.303	7(3H)2K	11	0.063	7(3G)4I	9
8	-	124321.5	-	0.863	7(3H)4I	8	0.456	7(3H)2K	11	0.209	7(3H)4K	7	-0.044	7(3G)4I	9
9	-	124485.1	-	0.834	7(3H)2K	11	-0.429	7(3H)4K	7	-0.341	7(3H)4I	8	-0.055	7(3G)4I	9
10	-	129404.1	-	0.996	7(3G)4I	9	-0.070	7(3H)4K	7	0.047	7(3H)2K	11	0.043	7(3H)4I	8
11	-	134215.2	-	0.999	7(1I)2L	10	-0.038	7(3H)2K	11	-	-	-	-	-	-
12	-	134621.0	-	-0.999	7(1I)2K	12	0.042	7(3H)4I	8	-	-	-	-	-	-
13	-	139798.9	-	0.998	10(4G)6H32	-	-0.057	10(4G)4I34	-	-0.032	10(2H)4I36	-	-	-	-
14	-	143806.7	-	-0.991	9(4G)6H	15	0.120	9(4G)6I	14	0.042	9(4F)6H	16	-	-	-
15	-	144006.3	-	0.992	9(4G)6I	14	0.121	9(4G)6H	15	-	-	-	-	-	-
16	-	146831.4	-	-0.987	9(4G)4I	21	-0.159	9(4G)4I	20	-	-	-	-	-	-
17	-	147680.7	-	-0.986	10(4G)4I34	-	-0.142	10(2I)4I35	-	-0.058	10(4G)6H32	-	-0.053	10(2H)4I36	-
18	-	155507.7	-	1.000	8(2I)4I	13	-	-	-	-	-	-	-	-	-
19	-	156356.6	-	0.992	10(2I)4K33	-	-0.092	10(2I)4I35	-	0.047	10(2H)4I36	-	-0.040	10(2I)2L37	-
20	-	158106.3	-	-0.986	9(4G)4I	20	0.159	9(4G)4I	21	0.034	9(4F)6H	16	0.031	9(2H)2K	30
21	-	158740.4	-	-0.981	10(2I)4I35	-	0.144	10(4G)4I34	-	-0.088	10(2I)4K33	-	0.073	10(2I)2K39	-
22	-	159873.7	-	-0.827	10(2I)2K38	-	0.463	10(2I)2R39	-	-0.251	10(2I)2L37	-	-0.161	10(2H)2K40	-
23	-	161440.3	-	0.998	9(2I)4I	22	-0.045	9(2I)4K	18	-	-	-	-	-	-
24	-	161512.9	-	0.983	9(2I)4L	17	-0.166	9(2I)4K	18	0.067	9(2H)4K	19	-	-	-
25	-	161639.9	-	-0.962	10(2I)2L37	-	0.195	10(2I)2K38	-	-0.174	10(2I)2K39	-	-0.053	10(2I)4K33	-
26	-	161675.3	-	-0.982	9(2I)4K	18	-0.169	9(2I)4L	17	-0.057	9(2H)4I	23	-0.043	9(2I)4I	22
27	-	162677.0	-	0.996	9(4F)6H	16	-0.070	9(2G)4I	25	0.040	9(4G)6H	15	0.035	9(4G)4I	20
28	-	163916.5	-	0.852	10(2I)2K39	-	0.487	10(2I)2R38	-	-0.155	10(2H)4I36	-	0.080	10(2I)4I35	-
29	-	164251.8	-	0.883	9(2I)2K	29	0.319	9(2I)2K	28	-0.316	9(2I)2L	27	-0.110	9(2I)2L	26
30	-	164260.1	-	0.888	9(2I)2L	27	0.315	9(2I)2K	29	0.309	9(2I)2L	26	0.114	9(2I)2K	28
31	-	165577.9	-	-0.975	10(2H)4I36	-	-0.180	10(2I)2K38	-	-0.076	10(2I)2K39	-	0.057	10(2H)2K40	-
32	-	169165.4	-	0.730	9(2I)2L	26	-0.431	9(2I)2K	28	0.286	9(2H)4I	23	-0.262	9(2H)4K	19
33	-	169245.0	-	-0.618	9(2I)2K	28	-0.535	9(2I)2L	26	0.437	9(2H)4I	23	0.264	9(2I)2K	29
34	-	169960.7	-	0.533	9(2H)4K	19	-0.504	9(2H)4I	23	-0.498	9(2I)2K	28	0.417	9(2G)4I	25
35	-	170129.7	-	-0.765	9(2H)4K	19	-0.549	9(2H)4I	23	-0.249	9(2I)2K	28	-0.194	9(2I)2L	26
36	-	170725.7	-	-0.982	10(2H)2K40	-	-0.132	10(2I)2K39	-	0.085	10(2I)2K38	-	0.081	10(2I)2L37	-
37	-	171480.6	-	0.855	9(2G)4I	25	0.397	9(2H)4I	23	-0.225	9(2H)4K	19	-0.183	9(2H)2K	31
38	-	172868.2	-	0.910	9(2H)2K	31	0.316	9(2H)2K	30	0.213	9(2G)4I	25	0.126	9(2I)2L	26
39	-	177881.2	-	0.940	9(2H)2K	30	-0.331	9(2H)2K	31	0.049	9(2I)2L	27	0.043	9(2G)4I	25
40	-	194438.6	-	-1.000	9(2G)4I	24	-	-	-	-	-	-	-	-	-

J 8.5		26.01	D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2												
			1	2	3	4	5	6	7	8	9	10			
OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS											
1	-	103545.1	-	0.999	6(3H)4K	1	0.051	6(1I)2L	2	-	-	-	-	-	-
2	-	113650.8	-	-0.999	6(1I)2L	2	0.051	6(3H)4K	1	-	-	-	-	-	-
3	-	124137.3	-	0.999	7(3H)4K	3	0.044	7(1I)2L	4	-	-	-	-	-	-
4	-	134214.9	-	-0.999	7(1I)2L	4	0.044	7(3H)4K	3	-	-	-	-	-	-
5	-	144009.1	-	1.000	9(4G)6I	5	-	-	-	-	-	-	-	-	-
6	-	156634.0	-	0.996	10(2I)4K11	-	-0.085	10(2I)2L12	-	-	-	-	-	-	-
7	-	161543.2	-	0.989	9(2I)4L	6	-0.134	9(2I)4K	7	0.060	9(2H)4K	8	-	-	-
8	-	161621.6	-	0.996	10(2I)2L12	-	0.085	10(2I)4K11	-	-	-	-	-	-	-
9	-	161716.4	-	0.991	9(2I)4K	7	0.135	9(2I)4L	6	-	-	-	-	-	-
10	-	164249.3	-	0.939	9(2I)2L	10	0.334	9(2I)2L	9	-0.081	9(2H)4K	8	-	-	-
11	-	169188.3	-	0.853	9(2I)2L	9	-0.398	9(2H)4K	8	-0.337	9(2I)2L	10	-	-	-
12	-	170290.8	-	-0.911	9(2H)4K	8	-0.402	9(2I)2L	9	0.064	9(2I)2L	10	0.050	9(2I)4L	6

J 9.5		26.01	D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2												
			1	2	3	4	5	6	7	8	9	10			
OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS											
1	-	161586.3	-	1.000	9(2I)4L	1	-	-	-	-	-	-	-	-	-

Table 3. Slater parameters for odd levels.

These are the least-squares parameters used to compute the eigenvalues shown in Table 4. The columns list the parameter number, the configuration to which the parameter applies – or, for a configuration–interaction parameter, the configurations between which it applies – the parameter name, the parameter value in cm^{-1} , the variance of the parameter value, and, finally, qualifications on the parameters.

The parameters are

EAV: E_{av} , average energy for a configuration;

F and G: Slater integrals F^n and G^n ;

ALPHA and BETA: α and β , effective configuration–interaction parameters;

ZETA: ζ spin–orbit interaction parameter;

D and E: direct and exchange Slater integrals R^n for configuration interaction. For exchange integrals, the final two orbitals of the four indicated should be interchanged.

Qualifications on a parameter arise if it has been kept fixed in the least-squares fit or was defined as a linear combination of other parameters. In a linear combination, the other parameters are indicated by their numbers.

The standard deviation shown on the last line is defined as the square root of the sum of the squares of the residuals (E–O in Table 4) divided by the number of observed levels used in the least-squares fit minus the number of free parameters.

Johansson, Litzen, Sinzelle, and Wyart (1980) have determined Slater parameters (in Racah notation) for all the odd configurations. We have adopted a slightly different Hamiltonian with fewer effective parameters and used their parameters as starting values. In the future we expect to compute Hartree–Fock Slater parameters as a guide in estimating those that cannot be determined by least squares and to predict configurations that have not been observed.

SLATER PARAMETERS

26.01

ODD CONFIGURATIONS

	PARAMETER		VARIANCE		
1	D6 4P	EAV	71705.1	52.4	
2		F2(3D3D)	70636.7	87.5	
3		F4(3D3D)	42648.9	166.3	
4		ALPHA	66.8	1.6	
5		BETA	557.2	46.6	
6		ZETA 3D	426.3	22.2	
7		ZETA 4P	408.5	39.2	
8		F2(3D4P)	12971.6	166.3	
9		G1(3D4P)	5049.5	65.3	
10		G3(3D4P)	2854.6	135.3	
11	D5 4S4P	EAV	115599.3	62.3	
12		F2(3D3D)	75699.1	267.5	
13		F4(3D3D)	47643.5	177.6	
14		ALPHA	66.8	0.0	LINEAR = 1.000 * 4
15		BETA	557.2	0.0	LINEAR = 1.000 * 5
16		ZETA 3D	441.2	62.4	
17		ZETA 4P	532.7	72.6	
18		F2(3D4P)	15351.6	339.8	
19		G2(3D4S)	7309.7	246.8	
20		G1(3D4P)	6099.3	166.5	
21		G3(3D4P)	5570.5	406.0	
22		G1(4S4P)	29614.1	215.6	
23	D6 5P	EAV	118544.6	51.1	
24		F2(3D3D)	70636.7	0.0	LINEAR = 1.000 * 2
25		F4(3D3D)	42648.9	0.0	LINEAR = 1.000 * 3
26		ALPHA	66.8	0.0	LINEAR = 1.000 * 4
27		BETA	557.2	0.0	LINEAR = 1.000 * 5
28		ZETA 3D	426.3	0.0	LINEAR = 1.000 * 6
29		ZETA 5P	130.0	0.0	FIXED
30		F2(3D4P)	2571.4	437.4	
31		G1(3D4P)	1370.8	106.5	
32		G3(3D4P)	685.4	0.0	LINEAR = 0.500 * 31
33	D6 4F	EAV	131659.0	1.2	
34		F2(3D3D)	70636.7	0.0	LINEAR = 1.000 * 2
35		F4(3D3D)	42648.9	0.0	LINEAR = 1.000 * 3
36		ALPHA	66.8	0.0	LINEAR = 1.000 * 4
37		BETA	557.2	0.0	LINEAR = 1.000 * 5
38		ZETA 3D	426.3	0.0	LINEAR = 1.000 * 6
39		ZETA 4F	1.0	0.8	
40		F2(3D4F)	948.6	17.1	
41		F4(3D4F)	79.1	43.1	
42		G1(3D4F)	73.4	7.1	
43		G3(3D4F)	0.0	0.0	FIXED
44		G5(3D4F)	0.0	0.0	FIXED
45	D6P-D5SP	2D(3D3D3D4S)	-1745.8	433.2	
46	D6P-D5SP	2D(3D4P4S4P)	-7532.0	945.2	
47	D6P-D5SP	1E(3D4P4S4P)	-10620.3	492.6	
48	D6P-D6P	0D(3S4P3S4P)	0.0	0.0	FIXED
49	D6P-D6P	2D(3D4P3D4P)	0.0	0.0	FIXED
50	D6P-D6P	1E(3D4P3D4P)	0.0	0.0	FIXED
51	D6P-D6P	3E(3D4P3D4P)	0.0	0.0	FIXED
52	D5SP-D6P	2D(3S4P3D3D)	-1745.8	0.0	LINEAR = 1.000 * 45
53	D5SP-D6P	2D(4S4P3D4P)	-2500.0	0.0	FIXED
54	D5SP-D6P	1E(4S4P3D4P)	-3668.2	126.9	
		STANDARD DEVIATION		157.9	

Table 4. Energies and eigenvector components for odd levels.

The energy levels are presented separately for each value of the angular momentum J . In the heading for each J , the configurations are listed and numbered. The columns list the eigenvalue number that will be used later below to identify the state, the observed energy in cm^{-1} , the eigenvalue, the eigenvalue minus the observed energy, the published assignment of the observed level, and, finally, the largest eigenvector components. The levels are listed in order of increasing eigenvalue. The observed levels and their labels (assignments) have been taken from Johansson (1978) and have been assigned to the eigenvalues in the least-squares process. A minus sign preceding a level indicates that it was not used in the least-squares fit. In computing gf values and wavelengths, the observed energy is used when available; otherwise, the computed eigenvalue is used. The eigenvector components listed are the four largest or as many as there are larger than 0.03. The LS basis states are listed in the following notation:

- 2(4D)6P 26 , from the first line of the table, means
- 2 configuration number = $d^5 4s4p$;
- (4D) LS term of the ancestor configuration = $d^5 4D$;
- 6P LS term = $6P$;
- 26 arbitrary LS basis state number to distinguish identical terms with different seniority.

Odd levels that were unclassified by Johansson have been matched to eigenvectors so that lines would appear at the proper wavelengths. These should not be considered assignments. The gf values for lines connecting such levels may be completely random or may even be accidentally correct.

The level 102893.38, 5.5 is misprinted in Johansson as 102983.38.

J 0.5		26.01		D6 4P + D5 4S4P + D6 5P + D6 4F												
				1	2	3	4									
OBSERVED ENERGY	EIGENVALUE	E-O	LABEL	PRINCIPAL EIGENVECTOR COMPONENTS												
1	39109.307	39197.7	88.4	4P (5D)6D	-0.997	1(5D)6D	2	0.040	2(4D)6D	26	0.033	2(4F)6D	25	-0.031	1(3P)4P	11
2	42439.822	42407.7	-32.1	4P (5D)6F	0.992	1(5D)6F	1	0.097	1(5D)4D	3	0.055	2(4G)6F	22	0.041	1(3P)4D	7
3	45206.450	45134.2	-72.2	4P (5D)4D	-0.973	1(5D)4D	3	-0.116	1(3F)4D	5	0.102	1(5D)6F	1	0.088	1(3P)4D	8
4	47626.076	47801.1	175.0	4P (5D)4P	-0.981	1(5D)4P	9	-0.132	2(6S)4P	40	-0.095	1(3D)4P	10	-0.048	2(4P)4P	43
5	61035.287	61156.0	120.7	4P (3P)4P	-0.711	1(3P)4P	12	0.659	1(3P)4P	11	0.120	1(3P)4D	8	0.106	1(3D)4P	10
6	62829.075	63038.3	209.2	4P (3P)4D	0.764	1(3P)4D	8	-0.581	1(3P)4D	7	0.130	1(3F)4D	5	-0.113	1(3D)4D	6
7	63559.488	63757.2	197.8	4P (3P)4D	-0.839	1(3P)4D	5	0.400	1(3F)4D	4	0.260	1(3D)4D	6	0.159	1(5D)4D	3
8	64806.487	65036.3	229.9	4P (3P)2P	0.659	1(3P)2P	15	-0.574	1(3P)2P	14	-0.259	1(3P)2S	21	-0.198	1(1S)2P	19
9	66248.660	66454.1	205.4	4P (3P)2S	0.756	1(3P)2S	21	-0.555	1(3P)2S	20	0.226	1(3P)2P	15	-0.190	1(3P)2P	14
10	69426.980	69319.3	-107.7	4SP (5S)4P	0.976	2(6S)4P	40	-0.129	1(3D)4P	10	-0.111	1(5D)4P	9	-0.089	2(4D)4P	41
11	72429.711	72092.5	-337.2	4P (3D)4D	-0.689	1(3D)4D	6	0.546	1(3D)4P	10	-0.337	1(3D)2P	13	-0.176	1(3F)4D	5
12	72212.978	72292.3	79.4	4P (3D)4P	0.792	1(3D)4P	10	0.502	1(3D)4D	6	0.174	1(3D)2P	13	0.131	1(3F)4D	5
13	73187.280	72818.4	-368.9	4P (3D)2P	-0.777	1(3D)2P	13	0.393	1(3D)4D	6	-0.355	1(1S)2P	19	-0.218	1(3P)2P	15
14	76577.482	76051.0	-526.5	4P (1S)2P	0.692	1(1S)2P	19	-0.415	1(3D)2P	13	-0.390	1(1S)2P	18	0.285	1(1D)2P	16
15	78841.960	79027.2	185.2	4P (1D)2P	-0.780	1(1D)2P	16	0.466	1(1D)2P	17	0.276	1(1S)2P	19	-0.202	1(3D)2P	13
16	86380.820	86522.0	133.2	4P (3P)4D	-0.608	1(3P)4D	4	-0.575	1(3P)4D	4	-0.431	1(3P)4D	8	-0.294	1(3F)4D	5
17	87635.920	87656.1	20.2	4SP (5P)6D	0.615	2(4G)6F	22	-0.612	2(4P)6D	27	0.300	2(4D)6D	26	0.249	3(5D)6F	65
18	87898.120	87829.2	-68.9	4SP (5G)6F	0.641	2(4P)6D	27	0.613	2(4G)6F	22	-0.304	2(4D)6D	26	0.251	3(5D)6F	65
19	89003.460	88896.4	-107.1	4P (3P)2S	0.774	1(3P)2S	20	0.581	1(3P)2S	21	0.135	2(4F)2S	62	0.130	1(3P)4P	11
20	89471.365	89422.7	-48.6	5P (5D)6D	-0.957	3(5D)6D	66	0.221	2(4P)6D	27	0.164	2(4D)6D	26	0.051	2(4F)6D	25
21	90648.217	90755.3	107.1	5P (5D)6F	-0.931	3(5D)6F	65	0.325	2(4G)6F	22	-0.124	2(4D)6F	24	-0.075	3(5D)4D	67
22	91199.746	91295.2	95.4	5P (5D)4D	0.967	3(5D)4D	67	-0.188	3(5D)4P	73	-0.080	2(4D)4D	30	-0.071	3(5D)6F	65
23	-90839.480	91654.4	95.4	4P (3P)4P	0.753	3(5D)4P	73	-0.447	1(3P)4P	11	-0.392	1(3P)4P	12	0.179	3(5D)4D	67
24	91850.722	91787.3	-63.4	4SP (5D)6F	0.926	2(4D)6F	24	0.339	2(4G)6F	22	-0.124	2(4F)6F	23	0.065	2(4P)4D	32
25	-92314.758	91808.1	-74.7	5P (5D)4P	-0.610	3(5D)4P	73	-0.552	1(3P)4P	11	-0.488	1(3P)4P	12	-0.137	2(4D)4P	42
26	92453.460	92463.5	10.0	4P (3P)4D	-0.631	1(3P)4D	4	0.500	1(3P)4D	7	0.411	1(3P)4D	8	-0.318	1(3F)4D	5
27	94031.378	93971.6	-59.8	4SP (5D)6D	-0.749	2(4D)6D	26	-0.345	2(4P)6D	27	-0.317	2(4P)4P	43	-0.314	2(4P)4P	44
28	-	94465.5	-	-	0.736	1(3P)2P	14	0.595	1(3P)2P	15	0.162	2(4D)2P	50	-0.134	1(3D)2P	13
29	94880.740	94877.7	-3.0	4SP (5P)4P	0.545	2(4P)4P	43	0.527	2(4P)4P	44	-0.439	2(4D)6D	26	0.223	2(4D)4P	41
30	95767.700	95697.1	-70.6	4SP (5P)4D	0.746	2(4P)4D	32	0.546	2(4D)4D	33	-0.223	2(4D)4D	30	0.143	2(2D)4D	38
31	-	97667.3	-	-	0.793	2(4P)2P	51	0.347	2(4D)2P	50	0.310	2(4D)4D	30	0.272	2(4D)4D	31
32	99007.700	98958.7	-49.0	4SP (5D)4D	-0.594	2(4D)4D	30	-0.531	2(4D)4D	31	0.422	2(4P)2P	51	-0.202	2(4P)4D	33
33	101402.380	101506.5	104.1	4SP (5D)4P	0.707	2(4D)4P	41	0.523	2(4D)4P	42	-0.332	2(4P)4P	43	-0.229	2(4P)4P	44
34	103125.650	103119.1	-6.6	4F(5D)4(1)1	0.724	4(5D)4P	96	-0.454	4(5D)4D	88	-0.433	4(5D)6D	87	0.283	4(5D)6F	86
35	103418.080	103412.5	-5.6	4F(5D)3(0)1	0.654	4(5D)6F	86	-0.533	4(5D)4P	96	-0.532	4(5D)6D	87	0.064	4(5D)4D	88
36	103437.280	103434.3	-2.9	4F(5D)3(1)1	0.658	4(5D)4D	88	-0.609	4(5D)6D	87	-0.393	4(5D)6F	86	0.203	4(5D)4P	96
37	103676.220	103676.2	0.0	4F(5D)2(1)1	0.596	4(5D)4D	88	0.579	4(5D)6F	86	0.399	4(5D)6D	87	0.385	4(5D)4P	96
38	103967.490	104045.5	78.0	4SP (3P)2S	0.951	2(4P)2S	62	-0.151	3(3P)2S	20	0.129	2(4D)2P	50	-0.115	2(2D)4P	47
39	-	105871.8	-	-	0.878	2(4F)6F	23	-0.268	2(2D)4D	38	-0.206	2(4D)2P	50	0.165	2(4D)6F	24
40	-	106109.1	-	-	-0.837	2(4D)2P	50	0.369	2(4P)2P	51	-0.244	2(4F)6F	23	-0.132	2(2D)4P	47
41	-	106625.9	-	-	-0.621	2(4F)6D	25	0.598	2(2D)4P	47	0.343	2(2D)4P	45	-0.148	2(4F)6F	23
42	-	107195.4	-	-	0.733	2(2D)4D	38	0.405	2(2D)4D	36	0.277	2(4F)6F	23	-0.244	2(4F)6D	25
43	-	107647.9	-	-	0.702	2(4F)6D	25	0.477	2(2D)4P	47	0.263	2(2D)4P	45	0.206	2(2D)4D	38
44	-	108683.4	-	-	0.810	2(2F)4D	34	-0.284	3(3P)4D	72	0.235	3(3P)4D	71	0.175	2(2D)4P	47
45	-	109550.1	-	-	0.618	3(3P)4P	76	-0.520	3(3P)4P	75	-0.268	3(3P)2S	85	0.219	3(3P)2S	84
46	-	110392.0	-	-	0.594	3(3F)4D	69	0.375	3(3P)4D	72	-0.332	2(4P)4D	33	-0.303	3(3F)4D	68
47	-	110612.3	-	-	-0.479	3(3P)2S	85	0.475	3(3P)2P	79	-0.390	3(3P)2P	78	0.386	3(3P)2S	84
48	-	110848.4	-	-	-0.558	3(3P)4D	72	0.462	3(3F)4D	69	0.451	3(3P)4D	71	-0.313	2(2F)4D	34
49	-	111447.5	-	-	-0.530	3(3P)2S	85	-0.504	3(3P)2P	79	0.426	3(3P)2S	84	0.408	3(3P)2P	78
50	-	112425.5	-	-	-0.575	2(2D)2P	56	-0.360	2(2D)2P	57	-0.317	2(2D)2P	52	0.299	2(4F)4D	28
51	-	113694.7	-	-	-0.509	2(4F)4D	28	-0.424	2(4F)4D	29	-0.306	2(2D)2P	56	-0.289	2(2D)4D	34
52	-	114010.3	-	-	0.680	2(4P)4P	44	-0.611	2(4P)4P	43	0.162	2(4D)4P	42	-0.150	3(3P)4P	76
53	-	115114.7	-	-	-0.559	2(4P)4D	33	-0.327	3(3F)4D	69	0.318	2(4F)4D	29	0.316	2(4P)4D	32
54	-	117494.9	-	-	0.616	2(4D)4P	42	-0.515	2(4D)4P	41	-0.378	2(2S)4P	49	-0.299	3(3D)4P	74
55	-	117725.0	-	-	0.632	2(4D)4D	31	-0.512	2(4D)4D	30	0.303	2(4P)4D	33	-0.278	2(4P)4D	32
56	-	118541.3	-	-	-0.823	2(2F)4D	35	0.424	3(3D)4D	70	0.166	2(4F)4D	28	0.166	2(4D)4D	34
57	-	119256.5	-	-	0.812	1(1D)2P	17	0.471	1(1D)2P	16	0.195	1(1S)2P	18	-0.136	2(2S)2P	61
58	-	119471.5	-	-	-0.817	3(3D)4P	74	0.524	2(2S)4P	49	-0.184	2(2D)4P	46	0.060	3(3D)2P	77
59	-	120012.6	-	-	-0.819	3(3D)2P	77	-0.443	3(3D)4D	70	-0.243	2(2F)4D	35	-0.117	3(1S)2P	83
60	-	120272.6	-	-	-0.724	3(3D)4D	70	0.511	3(3D)2P	77	-0.369	2(2F)4D	35	0.168	2(4D)4D	31
61	-	122215.4	-	-	0.753	3(1S)2P	83	-0.412	3(1S)2P	82	-0.280	2(2S)2P	60	0.193	2(2D)2P	56
62	-	122240.1	-	-	-0.773	4(3P)4D	95	0.631	4(3P)4D	94	0.040	4(3D)4D	93	-	-	-
63	-	122685.4	-	-	-0.663	2(2S)4P	49	-0.453	3(3D)4P	74	-0.426	2(4D)4P	42	0.233	2(4D)4P	41
64	-	123209.9	-	-	-0.983	4(3H)4D	89	-0.081	4(3G)2P101	-	0.068	4(3F)2S111	-	0.064	4(1G)2P106	-
65	-	124194.4	-	-	0.514	4(3F)2S111	-	-0.477	4(3F)2P103	-	-0.380	4(3F)4P	99	0.315	4(3F)4D	92
66	-	124413.5	-	-	-0.684	4(3F)4D	92	0.490	4(3F)2S111	-	0.361	4(3F)4D	91	-0.258	4(3F)2S110	-
67	-	124425.4	-	-	0.686	4(3F)4P	99	-0.488	4(3F)2P103	-	-0.360	4(3F)4P	98	0.257	4(3F)2P102	-
68	-	124590.8	-	-	-0.538	4(3F)2P103	-	-0.497	4(3F)2S111	-	-0.390	4(3F)4D	92	-0.319	4(3F)4P	99
69	-	124832.3	-	-	-0.550	2(2S)2P	60	0.491	3(1D)2P	80	-0.346	2(2S)2P	61	-0.337	3(1S)2P	83
70	-	126001.9	-	-	-0.670	3(1D)2P	80	-0.419	2(2S)2P	60	0.373	3(1D)2P	81	-0.246	2(2F)2P	57
71	-	127466.5	-	-	0.703	4(3G)4D	90	-0.514	4(3G)2P101	-	-0.452	4(3G)4P	97	-0.092	4(3F)2S111	-
72	-	127646.3	-	-	-0.798	4(3G)4P	97	-0.577	4(3G)4D	90	-0.083	4(3G)2P101	-	0.077	4(3F)4D	92
73	-	127671.3	-	-	0.836	4(3G)2P101	-	0.382	4(3G)4D	90	-0.364	4(3G)4P				

96	-	151841.7	-	-	0.696	4(3F)2P102	0.483	4(3F)4P 98	0.366	4(3F)2P103	0.255	4(3F)4P 99
97	-	151903.3	-	-	-0.725	4(3F)4P 98	0.502	4(3F)2P102	-0.380	4(3F)4P 99	0.262	4(3F)2P103
98	-	151967.4	-	-	0.845	4(3F)4D 91	0.446	4(3F)4D 92	-0.140	4(3F)2P102	-0.130	4(3F)2S110
99	-	152367.3	-	-	0.966	2(2P)4D 39	0.184	2(2D)4D 36	0.097	2(2F)4D 35	0.076	2(4F)4D 29
100	-	152555.0	-	-	-0.764	4(3P)4D 94	-0.624	4(3P)4D 95	0.139	4(3F)4D 91	0.074	4(3F)4D 92
101	-	153625.6	-	-	0.789	2(2P)2S 63	0.610	2(2P)2S 64	0.039	2(2D)2P 55	0.032	2(2D)4P 45
102	-	157049.5	-	-	-0.772	2(2P)2P 58	0.320	2(2D)2P 52	-0.314	2(2P)2P 59	0.309	2(2D)2P 55
103	-	159155.0	-	-	0.800	4(1G)2P105	0.598	4(1G)2P106	-	-	-	-
104	-	161140.4	-	-	0.849	2(2D)4D 36	-0.475	2(2D)4D 38	-0.200	2(2P)4D 39	-0.046	2(2D)4D 37
105	-	163128.8	-	-	-0.758	2(2D)4P 45	-0.465	2(2P)4P 48	0.449	2(2D)4P 47	-0.059	2(2D)4P 46
106	-	164950.4	-	-	-0.838	3(1D)2P 81	-0.463	3(1D)2P 80	-0.176	2(2P)2P 59	0.140	2(2P)2P 58
107	-	168651.5	-	-	-0.699	2(2D)2P 52	0.407	2(2D)2P 56	-0.353	2(2P)2P 58	-0.329	2(2D)2P 53
108	-	172570.6	-	-	0.780	2(2P)2P 59	-0.384	2(2D)2P 53	-0.338	2(2P)2P 58	-0.206	3(1D)2P 81
109	-	175030.6	-	-	-0.784	2(2P)2S 64	0.608	2(2P)2S 63	-0.058	2(2P)2P 59	-0.053	1(3P)2S 21
110	-	178002.1	-	-	-0.877	4(1D)2P109	-0.481	4(1D)2P108	-	-	-	-
111	-	183830.8	-	-	0.632	3(1S)2P 82	0.442	2(2D)2P 53	0.349	3(1S)2P 83	0.302	2(2P)2P 59
112	-	186229.1	-	-	-0.601	3(1S)2P 82	0.523	2(2D)2P 53	-0.331	3(1S)2P 83	-0.299	2(2D)2P 57

J 1.5 26.01 D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS
1	39013.206	39093.8	80.5 4P (5D)6D	-0.994 1(5D)6D 2 0.057 1(5D)6F 1 0.053 1(5D)6P 3 0.040 2(4D)6D 42
2	42401.302	42367.1	-34.2 4P (5D)6F	0.989 1(5D)6F 1 0.092 1(5D)4D 9 0.065 1(5D)4F 4 0.055 2(4G)6F 38
3	43620.957	43665.8	44.8 4P (5D)6P	-0.979 1(5D)6P 3 -0.185 2(6S)6P 45 -0.056 1(5D)6D 2 -0.033 2(4P)6P 47
4	45044.168	44973.7	-70.5 4P (5D)4D	-0.962 1(5D)4D 9 0.152 1(5D)4F 4 -0.112 1(3F)4D 11 0.088 1(3P)4D 14
5	45289.801	45415.7	125.9 4P (5D)4F	-0.976 1(5D)4F 4 -0.144 1(5D)4D 9 0.080 1(3G)4F 5 0.079 1(5D)6F 1
6	47389.779	47566.4	176.7 4P (5D)4P	0.981 1(5D)4P 15 0.131 2(6S)4P 73 0.099 1(3D)4P 16 0.049 2(4P)4P 76
7	59663.456	59692.2	28.7 4P (3P)4S	-0.654 1(3P)4S 20 0.438 1(3P)4S 19 0.431 1(3P)4P 18 -0.401 1(3P)4P 17
8	61332.764	61417.5	84.7 4P (3P)4P	0.505 1(3P)4P 18 0.481 1(3P)4S 20 -0.465 1(3P)4P 17 -0.316 1(3P)4S 19
9	61974.933	62133.5	158.6 4SP(7S)6P	0.749 2(6S)6P 44 0.623 2(6S)6P 45 -0.119 1(5D)6P 3 0.090 1(3P)2D 25
10	62125.600	62222.6	97.0 4P (3P)2D	-0.571 1(3P)2D 25 0.474 1(3D)2D 24 -0.268 1(3P)4D 14 0.264 1(3F)2D 22
11	62244.520	62249.9	5.3 4P (3F)4F	0.787 1(3F)4F 7 -0.449 1(3F)4F 6 0.222 1(3D)4F 8 0.180 1(3G)4F 5
12	62962.205	63151.7	189.5 4P (3P)4D	-0.676 1(3P)4D 14 0.521 1(3P)4D 13 0.282 1(3P)2D 25 -0.236 1(3P)2D 24
13	63465.109	63640.1	175.0 4P (3F)4D	-0.841 1(3P)4D 11 0.404 1(3F)4D 10 0.265 1(3D)4D 12 0.141 1(5D)4D 9
14	64834.073	65156.1	322.1 4P (3P)2P	0.718 1(3P)2P 31 -0.602 1(3P)2P 30 -0.162 1(1D)2P 32 -0.116 1(1S)2P 35
15	66612.656	66514.6	-98.0 4P (3G)4F	0.829 1(3G)4F 5 -0.322 1(3F)2D 22 0.277 1(3D)4F 8 -0.166 1(3P)4F 7
16	67273.826	67372.5	98.7 4P (3F)2D	-0.775 1(3F)2D 22 0.345 1(3G)4F 5 0.289 1(3P)2D 25 -0.286 1(3P)2D 21
17	69302.090	69181.2	-120.9 4SP(5S)4P	-0.976 2(6S)4P 73 0.129 1(3D)4P 16 0.110 1(5D)4P 15 0.089 2(4D)4P 74
18	72168.998	71925.6	-243.3 4P (3D)4F	0.838 1(3D)4F 8 -0.328 1(3G)4F 5 -0.238 1(3D)4D 12 0.233 1(3D)4P 16
19	72043.026	71974.1	-69.0 4P (3D)4P	-0.773 1(3D)4P 16 0.352 1(3D)4D 12 0.322 1(3D)4F 8 0.263 1(3D)2P 29
20	72524.566	72360.0	-164.6 4P (3D)4D	-0.766 1(3D)4D 12 -0.499 1(3D)4P 16 -0.209 1(3D)2P 29 -0.191 1(3F)4D 11
21	73189.110	72740.9	-448.2 4P (3D)2P	0.805 1(3D)2P 29 0.347 1(1S)2P 35 -0.342 1(3D)4D 12 -0.178 1(1S)2P 34
22	74498.057	74398.8	-99.3 4P (3D)2D	-0.954 1(3D)2D 23 0.173 1(1F)2D 26 -0.105 1(3F)2D 21 0.099 1(3P)2D 25
23	76129.446	75790.5	-338.9 4P (1S)2P	0.681 1(1S)2P 35 0.409 1(1D)2P 32 -0.387 1(1S)2D 24 -0.301 1(3D)2P 29
24	78487.153	78966.0	478.9 4P (1D)2D	-0.634 1(1D)2D 27 0.462 1(1D)2P 32 0.307 1(1D)2D 28 -0.275 1(1D)2P 33
25	79246.170	79237.4	-8.7 4SP(5S)6P	-0.711 2(6S)6P 45 0.647 2(6S)6P 44 0.157 2(4D)6P 46 0.132 2(4P)6P 47
26	79243.600	79325.1	81.5 4P (1D)2P	-0.562 1(1D)2D 27 -0.550 1(1D)2P 32 0.326 1(1D)2P 33 0.273 1(1D)2D 28
27	84359.800	84650.2	290.4 4P (1F)2D	0.914 1(1F)2D 26 0.208 1(1D)2D 27 0.159 1(3P)2D 24 0.141 1(3D)2D 23
28	-	85034.7	-	-0.988 2(4G)6G 36 0.136 2(4G)6G 37 -0.049 2(2F)4F 56 -0.037 2(4G)4F 49
29	86543.974	86669.4	125.4 4P (3P)4D	-0.618 1(3F)4D 10 -0.558 1(3P)4D 13 -0.419 1(3P)4D 14 -0.302 1(3F)4D 11
30	87602.250	87587.1	-15.1 4SP(5G)6P	0.688 2(4G)6F 38 -0.507 2(4P)6D 43 0.282 3(5D)6F113 -0.275 2(4D)6F 40
31	87964.650	87928.5	-36.1 4SP(5P)6D	0.711 2(4P)6D 43 0.532 2(4G)6F 38 -0.338 2(4D)6D 42 0.222 3(5D)6F113
32	89331.195	89278.8	-52.4 5P (5D)6D	-0.891 3(5D)6D114 0.254 2(4P)6D 43 0.228 3(5D)6P115 0.220 2(4P)6P 47
33	89625.940	89641.0	15.0 4SP(5P)6P	0.695 2(4P)6P 47 0.553 3(5D)6P115 0.336 3(5D)6D114 0.273 2(4D)6P 46
34	90629.902	90664.5	34.6 4P (3P)4S	-0.780 1(3P)4S 19 -0.542 1(3P)4S 20 -0.201 2(4P)4S 84 -0.119 1(3P)4P 17
35	90593.497	90673.5	80.0 5P (5D)6F	-0.888 3(5D)6F113 0.323 2(4D)6F 38 -0.276 3(5D)4F116 -0.104 2(4D)6F 40
36	91208.887	90974.1	-234.8 5P (5D)4F	-0.791 3(5D)4F116 0.516 3(5D)4D121 0.207 3(5D)6F113 -0.154 3(5D)4P127
37	91048.256	91158.3	110.1 5P (5D)4D	-0.745 3(5D)4D121 -0.497 3(5D)4F116 0.368 3(5D)4P127 0.169 3(5D)6F113
38	-90898.873	91495.6	4P (3P)4P	0.894 3(5D)4P127 0.395 3(5D)4D121 0.099 2(4P)4P 76 -0.088 1(3P)4P 17
39	91843.470	91802.5	-41.0 5P (5D)6P	-0.764 3(5D)6P115 0.546 2(4D)6P 47 0.197 2(4D)6F 40 0.190 2(6S)6P 45
40	91915.950	91867.0	-48.9 4SP(5D)6F	0.907 2(4D)6F 40 0.317 2(4G)6F 38 0.159 3(5D)6P115 -0.121 2(4F)6F 39
41	-92225.538	91994.5	5P (5D)4P	0.682 1(3P)4P 17 0.601 1(3P)4P 18 0.185 2(4D)4F 75 -0.169 1(3F)4D 10
42	92216.320	92238.9	22.6 4P (3P)2D	-0.689 1(3F)2D 21 -0.394 1(3P)2D 24 -0.282 1(3F)2D 22 -0.276 1(3P)2D 25
43	92358.610	92496.7	138.1 4SP(5G)4F	-0.582 1(3F)4F 6 0.424 2(4G)4F 49 0.376 2(4G)4F 48 -0.291 1(3F)4F 7
44	92647.510	92681.3	33.8 4P (3P)4D	0.565 1(3F)4D 10 -0.477 1(3P)4D 13 -0.393 1(3P)4D 14 0.285 1(3F)4D 11
45	93328.480	93314.5	-14.0 4P (3F)4F	0.527 1(3F)4F 6 0.515 2(4G)4F 48 0.461 2(4G)4F 49 0.352 1(3F)4F 7
46	93840.340	93851.8	11.4 4SP(5D)6D	0.628 2(4D)6D 42 -0.558 2(4D)6P 46 0.291 2(4P)6D 43 0.223 2(4P)4F 77
47	-	94109.2	-	0.507 1(3P)2D 24 -0.464 1(3F)2D 21 0.445 1(3P)2D 25 0.349 1(3P)2P 30
48	-	94230.2	-	-0.726 2(4D)6P 46 -0.378 2(4D)6D 42 0.313 2(4P)6P 47 -0.259 2(4P)4F 76
49	94739.170	94706.6	-32.6 4SP(5P)4P	-0.509 2(4P)4P 76 -0.498 2(4P)4P 77 0.405 2(4D)6D 42 -0.223 2(4D)4P 74
50	95039.200	95034.4	-4.8 4P (3P)2P	0.646 1(3P)2P 30 0.527 1(3P)2P 31 -0.357 1(3P)2D 24 -0.263 1(3P)2D 25
51	95858.050	95788.9	-69.2 4SP(5P)4D	0.736 2(4P)4D 65 0.547 2(4P)4D 66 -0.191 2(4D)4D 63 0.127 2(2D)4D 71
52	97326.270	97282.7	-43.6 4SP(3P)2P	-0.765 2(4P)2P101 -0.361 2(4D)2P101 0.349 2(4P)4S 83 0.185 2(4P)4S 84
53	98338.280	98182.0	-156.3 4SP(5P)4S	-0.763 2(4P)4S 83 -0.420 2(4P)4S 84 -0.311 2(4P)2P102 -0.176 2(4D)4D 63
54	98196.000	98356.1	160.1 4SP(5D)4F	-0.734 2(4D)4F 52 -0.562 2(4D)4F 53 -0.186 2(4P)2D 88 0.173 2(2G)4F 55
55	98770.140	98749.5	-20.7 4SP(5D)4D	0.624 2(4D)4D 63 0.556 2(4D)4D 64 -0.296 2(4P)2P102 0.196 2(4P)4D 66
56	-	100549.0	-	0.933 2(4P)2D 88 -0.148 2(4D)4F 52 0.119 2(4P)2D 86 -0.117 2(4D)4F 53
57	101573.900	101645.3	71.4 4SP(5D)4P	-0.690 2(4D)4P 74 -0.505 2(4D)4P 75 0.343 2(4P)4P 76 0.246 2(4P)4F 77
58	102503.810	102328.7	-175.1 4P (3D)2D	0.925 2(4D)2D 87 0.248 2(4F)2D 86 -0.126 2(2D)2D 97 -0.111 2(4P)2P102
59	103034.760	103025.3	-9.5 4F(5D)4[12]	-0.498 4(5D)6D150 -0.489 4(5D)4D160 0.434 4(5D)6F149 0.377 4(5D)4P168
60	103110.790	103099.7	-11.0 4F(5D)4[11]	0.669 4(5D)6P151 0.448 4(5D)4D160 -0.411 4(5D)6D150 -0.322 4(5D)4P168
61	103391.290	103389.3	-2.0 4F(5D)3[2]	-0.610 4(5D)6F149 0.485 4(5D)6G148 0.448 4(5D)4P168 0.319 4(5D)6P151
62	103417.910	103416.0	-1.5 4F(5D)3[11]	0.660 4(5D)4F152 0.459 4(5D)6P151 0.349 4(5D)6D150 -0.312 4(5D)4P168
63	103645.220	103660.0	14.8 4F(5D)2[2]	0.749 4(5D)6G148 -0.391 4(5D)4P168 0.371 4(5D)4F152 -0.277 4(5D)6D150
64	103668.690	103672.3	3.6 4F(5D)2[11]	-0.540 4(5D)6D150 -0.480 4(5D)6F149 0.381 4(5D)4D160 0.378 4(5D)4F152
65	103869.020	103876.4	7.3 4F(5D)1[2]	-0.572 4(5D)4D160 -0.519 4(5D)4P168 -0.337 4(5D)6F149 -0.328 4(5D)4F152
66	-	104336.3	-	-0.600 2(2D)4F 60 0.489 2(4F)6G 37 -0.466 2(2P)4F 56 -0.352 2(2D)4F 58
67	-	105086.0	-	0.842 2(4F)6G 37 0.401 2(2F)4F 56 0.246 2(2D)4F 60 0.136 2(2D)4F 58
68	-	105869.3	-	-0.890 2(4F)6P 39 0.221 2(2D)4D 71 0.201 2(4F)6D 41 -0.167 2(4D)6F 40
69	-	106364.3	-	-0.734 2(4D)2P101 -0.373 2(2D)4P 80 0.343 2(4P)2P102 0.233 2(4P)6D 41
70	-	106516.4	-	0.566 2(2D)4P 80 -0.437 2(4D)2P101 -0.333 2(4F)6D 41 0.323 2(4P)4F 78
71	-	106996.1	-	-0.532 2(2D)4D 71 0.437 2(4F)6D 41 -0.306 2(2D)4F 60 -0.297 2(2D)4D 69
72	-	107373.2	-	0.520 2(4F)6D 41 -0.358 2(2F)4F 56 0.298 2(2D)4F 60 0.261 2(2D)2D 97
73	-	107541.8	-	-0.522 2(4F)6D 41 -0.496 2(2D)4D 71 -0.279 2(2D)4D 69 -0.209 2(4F)6F 39
74	-108191.600	108282.5	23ODD	-0.630 3(3P)4S132 0.501 3(3P)4S131 0.343 3(3P)4P130 -0.291 3(3P)4P129
75	-108371.700	108202.4	25ODD	-0.411 2(2F)4F 56 0.402 2(2F)4D 67 -0.329 2(2F)2D 97 0.325 2(2F)2D 89
76	-108780.000	108771.0	27ODD	-0.604 2(2F)4D 67 0.292 3(3P)4D126 -0.251 2(2D)4P 80 -0.241 3(3P)4D125

77	-109780.000	109467.4	280DD	-0.414	3(3P)4P130	0.348	3(3P)4P129	-0.344	3(3P)2P143	0.332	2(2F)4D 67
78		110061.1		0.521	3(3P)2D137	-0.428	3(3P)2D136	0.401	3(3P)4P130	-0.335	3(3P)4P129
79		110226.3		-0.585	3(3P)4P119	0.349	3(3P)4D123	0.306	3(3P)4P118	-0.263	2(4G)4F 48
80		110427.0		0.453	3(3P)4D123	0.422	3(3P)4F119	0.327	3(3P)4D126	-0.263	3(3P)4D125
81		110646.5		-0.437	3(3P)2P143	0.408	3(3P)4D123	-0.365	3(3P)4D126	0.354	3(3P)2P142
82		110987.9		-0.380	3(3P)2D137	0.353	3(3P)4D126	-0.347	3(3P)2P143	0.311	3(3P)2D136
83		111931.9		-0.795	3(3P)2D134	0.393	3(3P)2D133	0.184	3(3G)4F117	-0.158	3(3P)2D137
84		112144.1		0.621	2(2D)2P107	0.369	2(2D)2P108	0.344	2(2D)2P103	0.211	3(3P)2P143
85		112474.7		-0.475	2(2G)4F 55	-0.339	3(3P)4F119	0.315	2(4D)4F 53	-0.298	2(4D)4F 52
86		112802.5		0.536	2(2G)4F 55	-0.481	2(4G)4F 49	0.377	2(2S)4F 48	0.284	2(4F)4F 50
87		113385.5		0.365	2(4F)4F 50	-0.321	2(4F)4D 61	-0.305	2(2F)2D 89	0.297	2(4F)4F 51
88		113561.0		-0.432	2(4F)4D 61	-0.364	2(4F)4D 62	0.329	2(2F)2D 89	-0.231	2(4F)4F 50
89		113791.0		0.489	2(4F)4P 77	-0.451	2(4F)4P 76	-0.344	2(4F)4F 50	-0.249	2(2F)2D 89
90		113817.7		0.424	2(4F)4P 77	0.380	2(4F)4F 50	-0.378	2(4F)4F 76	0.310	2(2F)2D 89
91		114390.1		0.811	3(3G)4F117	0.292	2(2G)4F 55	-0.215	2(2F)4F 57	0.171	2(4G)4F 49
92		115131.3		0.565	2(4F)4D 66	-0.333	2(4F)4D 65	0.318	3(3P)4D123	-0.302	2(2S)4D 62
93		115429.2		0.838	1(1D)2D 28	0.395	1(1D)2D 27	-0.220	2(2F)2D 89	-0.159	2(2D)2D 97
94		115558.7		-0.780	2(4F)4S 84	0.445	2(4F)4S 83	-0.263	3(3P)4S132	0.169	3(3P)4S131
95		116590.7		-0.847	2(2F)4F 57	-0.235	3(3D)4F120	-0.216	3(3G)4F117	0.197	2(4D)4F 53
96		117584.8		0.573	2(4D)4D 64	-0.463	2(4D)4D 63	-0.276	2(4D)4P 75	0.242	2(4F)4D 66
97		117690.2		-0.511	2(4D)4P 75	0.429	2(4D)4P 74	0.328	2(2S)4P 82	0.319	3(3P)4P128
98		117887.9		0.888	2(4F)2D 86	-0.240	2(4D)2D 87	0.177	2(2F)4D 68	-0.105	2(4D)4F 53
99		118546.9		-0.506	2(4D)4F 53	-0.378	2(2G)4F 55	0.368	3(3P)4F120	0.321	2(4D)4F 52
100		118593.1		0.743	2(2F)4D 68	-0.394	3(3D)4D124	0.202	2(4D)4F 53	-0.163	2(2F)4D 67
101		119077.5		0.816	1(1D)2P 33	0.474	1(1D)2P 32	0.188	1(1S)2P 34	-0.133	2(2S)2P112
102		119500.8		0.698	3(3D)4P128	-0.439	2(2S)4P 82	-0.387	2(2F)2D 91	-0.263	2(2F)2D 92
103		119613.7		-0.654	2(2F)2D 91	-0.438	2(2F)2D 92	-0.392	3(3D)4P128	0.264	2(2F)4D 82
104		119879.9		-0.850	3(3D)4F120	-0.296	2(4D)4F 53	-0.203	2(2G)4F 55	0.189	3(3G)4F117
105		120071.7		0.794	3(3D)2P141	0.420	3(3D)4D124	0.226	2(2F)4D 68	0.216	3(3D)2D135
106		120253.9		0.773	3(3D)2D135	-0.495	3(3D)4D124	-0.256	2(2F)4D 68	0.126	3(3D)2P141
107		120321.9		0.540	3(3D)4D124	0.536	3(3D)2D135	-0.521	3(3D)2P141	0.276	2(2F)4D 68
108		122245.6		-0.702	4(3P)4D167	0.573	4(3P)4D166	0.319	4(3P)4F159	-0.265	4(3P)4F158
109		122256.1		0.761	3(1S)2P147	-0.417	3(1S)2P146	-0.266	2(2S)2P111	0.186	2(2D)2P107
110		122288.0		0.701	4(3P)2D181	-0.573	4(3P)2D180	-0.310	4(3P)4F159	0.257	4(3P)4F158
111		122880.7		-0.670	2(2S)4P 82	-0.429	2(4D)4P 75	-0.425	3(3D)4P128	0.234	2(4P)4P 77
112		123046.4		0.715	4(3H)2D175	0.621	4(3H)4D161	-0.296	4(3H)4F153	0.109	4(3P)2P187
113		123196.1		0.679	4(3H)2D175	-0.661	4(3H)4D161	0.262	4(3H)4F153	-0.087	4(3G)4P169
114		123227.2		0.903	4(3H)4F153	0.386	4(3H)4D161	0.077	4(3G)2D176	-0.075	4(3F)2P189
115		123570.1		-0.629	4(3P)4F159	0.516	4(3P)4F158	-0.323	4(3P)2D181	-0.311	4(3P)4D167
116		124160.1		0.520	4(3F)4P171	-0.458	4(3P)4D164	-0.329	4(3F)4S174	-0.283	4(3F)4P170
117		124181.7		-0.484	4(3P)2P189	-0.444	4(3P)4S174	0.408	4(3F)2D178	0.290	4(3F)4P171
118		124393.9		-0.638	4(3P)4F156	0.506	4(3P)2P189	0.339	4(3F)4F155	-0.268	4(3F)2P188
119		124411.3		0.503	4(3P)2D178	0.502	4(3P)4S174	-0.473	4(3P)4D164	-0.266	4(3F)2D177
120		124555.3		-0.505	4(3P)4F156	-0.479	4(3P)4D164	-0.344	4(3P)2D178	-0.301	4(3F)4P171
121		124582.9		-0.493	4(3P)4F171	0.429	4(3P)2D178	-0.425	4(3F)4S174	0.360	4(3F)2P189
122		125011.2		-0.595	3(1D)2P144	0.454	2(2S)2P111	0.321	3(1D)2P145	0.309	3(1S)2P147
123		125780.6		-0.833	3(1D)2D139	0.443	3(1D)2D140	0.132	2(2D)2D 98	0.126	2(2F)2D 90
124		126148.4		-0.559	3(1D)2P144	-0.496	2(2S)2P111	0.312	3(1D)2P145	-0.270	2(2S)2P112
125		127091.3		0.731	4(3G)2P187	-0.390	4(3G)4D162	-0.370	4(3G)2D176	0.356	4(3G)4P169
126		127456.6		0.571	4(3G)4P169	-0.538	4(3G)4D162	-0.429	4(3G)2P187	0.363	4(3G)2D176
127		127458.6		0.676	4(3G)4F154	-0.431	4(3G)2D176	-0.401	4(3G)4P169	-0.321	4(3G)2P187
128		127639.7		-0.652	4(3G)4D162	-0.607	4(3G)4F154	-0.383	4(3G)4P169	-0.167	4(3G)2D176
129		127658.4		-0.701	4(3G)2D176	0.456	4(3G)4P169	-0.382	4(3G)2P187	-0.283	4(3G)4F154
130		128610.4		-0.637	2(2D)4F 59	0.626	2(2D)4D 70	0.185	2(4F)4D 61	0.141	2(2G)4F 55
131		128777.6		-0.650	2(2D)4D 70	-0.636	2(2D)4F 59	-0.198	2(4F)4D 61	0.168	2(4F)4D 62
132		128971.2		-0.524	2(2D)2D 98	0.369	2(2D)2D 97	-0.311	2(2D)2D 94	0.308	2(2F)2D 90
133		129751.6		-0.513	2(2D)2P108	0.329	2(2D)2D 98	-0.286	2(2D)2P104	0.278	2(2F)2D 90
134		130731.6		0.686	2(4F)4F 51	-0.514	2(4F)4F 50	-0.259	2(2D)4F 59	0.174	2(2D)2D 98
135		131104.4		-0.529	2(2D)4P 79	-0.355	2(2F)2D 90	0.347	2(4F)4D 62	0.318	3(1F)2D138
136		131233.5		-0.715	2(2D)4P 79	0.316	2(2F)2D 90	-0.277	3(1F)2D138	-0.264	2(2S)4P 82
137		131707.0		0.589	2(4F)4D 62	-0.464	2(4F)4D 61	0.280	2(2D)4D 70	-0.269	3(1F)2D138
138		132600.7		0.767	3(1F)2D138	0.409	2(2F)2D 90	0.207	2(2D)2D 98	-0.198	2(2F)2D 89
139		132791.2		0.795	4(1G)2D183	-0.591	4(1G)2D182	0.067	4(3P)4F153	-0.050	4(3F)2P189
140		132810.4		0.794	4(1G)2P192	-0.592	4(1G)2P191	0.065	4(3D)2P190	0.053	4(3H)4D161
141		132904.8		-0.758	4(3D)2P190	-0.416	4(3D)4D165	-0.409	4(3D)4P172	-0.263	4(3D)2D179
142		132933.1		0.850	4(3D)4F157	0.365	4(3D)4D165	-0.340	4(3D)2P190	0.135	4(3D)2D179
143		132934.8		-0.581	4(3D)2D179	0.570	4(3D)4P172	0.424	4(3D)4D165	-0.314	4(3D)2P190
144		133048.4		0.705	4(3D)4P172	-0.623	4(3D)4D165	0.250	4(3D)2D179	0.168	4(3D)4F157
145		133061.4		0.711	4(3D)2D179	-0.431	4(3D)4F157	-0.425	4(3D)2P190	0.347	4(3D)4D165
146		134125.0		-0.645	2(2D)2P105	-0.404	2(2D)2P106	0.390	2(2D)2D 95	-0.289	2(2S)2P111
147		134462.9		-0.682	2(2D)2D 95	-0.381	2(2D)2P105	-0.366	2(2D)2D 96	-0.257	2(2D)2P106
148		137273.0		0.858	2(2G)4F 54	0.394	3(3P)4F118	0.211	3(3F)4F119	0.172	2(2D)4F 58
149		137631.5		0.596	3(3P)4D125	0.541	3(3P)4D122	0.478	3(3P)4D126	0.278	3(3F)4D123
150		138380.4		-0.453	3(3P)2D136	-0.354	3(3P)2D137	-0.345	2(2F)2D 92	-0.290	1(1S)2P 34
151		138493.2		0.791	1(1S)2P 34	0.437	1(1S)2P 35	-0.163	3(3P)2D136	-0.157	1(1D)2P 33
152		138617.8		0.442	3(3P)4S131	0.430	3(3P)4P129	0.359	3(3P)4P130	0.343	3(3P)2D136
153		138926.4		0.872	4(1D)2P194	-0.477	4(1D)2P195	-0.053	4(3D)2D179	0.053	4(3D)4D165
154		139017.6		0.873	4(1D)2D185	-0.474	4(1D)2D186	0.069	4(3D)4F157	-0.051	4(3D)2P190
155		139199.9		0.659	3(3P)2D133	0.325	3(3P)2D134	-0.273	3(3P)4D122	0.255	3(3P)4P129
156		139252.7		0.539	3(3P)2D133	0.373	3(3P)4S131	0.318	3(3P)4D122	-0.315	3(3P)4P129
157		139534.0		-0.493	3(3P)4D122	0.368	3(3P)4D125	-0.333	3(3P)4P129	0.330	3(3P)4S131
158		139769.9		-0.632	3(3P)2P142	-0.520	3(3P)2P143	0.244	2(2F)2D 92	0.204	3(3P)4D125
159		139876.9		0.767	3(3P)4F118	0.409	3(3P)4F119	-0.406	2(2G)4F 54	-0.186	2(4F)4F 51
160		140500.2		0.546	2(2F)2D 92	-0.453	3(3P)2D136	-0.394	3(3P)2D137	-0.387	2(2F)2D 91
161		142953.5		-0.787	2(2S)2P112	0.465	2(2S)2P111	0.255	2(2D)2P106	-0.143	2(2D)2P105
162		145123.1		0.994	4(1F)2P193	-0.048	4(3F)4S173	0.046	4(3F)4D163	-0.045	4(3F)2D177
163		145233.6		-0.994	4(1F)2D184	-0.058	4(3F)4F155	0.047	4(3F)2P188	-0.031	4(3F)4F156
164		149140.6		-0.871	2(2P)4P 81	0.425	2(2D)4P 78	-0.189	2(2D)4P 80	-0.094	3(3P)4P129
165		150852.8		0.851	2(2D)2D 96	-0.459	2(2D)2D 95	-0.126	2(2F)2D 92	-0.103	2(2F)2D 99
166		151711.0		0.546	4(3P)4F158	0.448	4(3P)4F159	0.314	4(3P)2D180	0.309	4(3P)4D166
167		151805.1		-0.784	4(3P)4S173	-0.408	4(3P)4S174	-0.325	4(3P)4P170	-0.162	4(3P)4P171
168		151844.5		0.723	4(3P)4P170	0.383	4(3P)4P171	-0.375	4(3P)4S173	-0.333	

75	103987.930	103983.7	-4.2	4F(5D)1[3]	0.920	4(5D)6H170	-0.238	4(5D)4P199	0.212	4(5D)6G171	0.177	4(5D)4G175
76	104046.350	104055.5	9.2	4F(5D)0[3]	-0.727	4(5D)4P199	-0.500	4(5D)4D191	-0.249	4(5D)4F183	-0.198	4(5D)6H170
77	-	104473.9	-	-	-0.592	2(2D)4F 76	-0.471	2(4F)6G 43	-0.462	2(2F)4F 72	-0.346	2(2D)4F 74
78	-	105116.8	-	-	0.855	2(4F)6G 43	0.362	2(2F)4F 72	0.235	2(2D)4F 76	0.131	2(2D)4F 74
79	-	105848.5	-	-	0.837	2(4F)6F 45	-0.270	2(4F)6D 47	0.255	2(2D)4P 96	-0.181	2(2D)4D 87
80	-	106181.4	-	-	-0.688	2(2D)4P 96	-0.390	2(2D)4P 94	0.388	2(4F)6F 45	0.209	2(2F)4D 83
81	-	106755.2	-	-	-0.639	2(2F)4G 62	0.379	2(2D)4D 87	-0.314	2(4F)6D 47	-0.284	2(2F)4F 72
82	-	107024.4	-	-	-0.576	2(2F)4G 62	0.510	2(4F)6D 47	-0.398	2(2D)4D 87	-0.224	2(2D)4D 85
83	-107196.200	107346.9	-	180DD	0.696	2(4F)6D 47	0.288	2(2D)4D 87	0.269	2(4F)6F 45	-0.249	2(2F)4D 83
84	-	107758.7	-	-	0.460	2(2F)4F 72	0.424	2(2D)4D 87	-0.320	2(2D)4F 76	-0.273	2(2D)2D127
85	-108130.600	108208.7	-	220DD	0.448	2(2F)4D 83	-0.312	2(2F)4F 72	-0.310	2(2D)2D127	0.300	2(2F)2D119
86	-	108737.3	-	-	-0.382	3(3P)4D148	0.313	3(3P)4D147	0.273	2(2D)2D127	0.257	2(2D)4P 96
87	108629.250	108778.0	148.8	4SP(3G)4G	-0.532	3(3H)4G134	0.475	2(4G)4G 56	-0.385	2(4G)4G 55	0.329	2(2H)4G 59
88	-	108870.7	-	-	-0.607	3(3P)4P152	0.511	3(3P)4P151	-0.340	3(3P)2D166	0.281	3(3P)2D165
89	-	109183.0	-	-	0.558	3(3P)2D166	0.528	2(2F)4D 83	-0.461	3(3P)2D165	0.145	2(2D)4P 96
90	-	109688.6	-	-	0.658	3(3H)4G134	0.462	3(3F)4G137	0.379	2(2H)4G 59	0.264	2(2F)4G 63
91	-	110084.4	-	-	0.460	3(3F)4F141	-0.420	3(3F)4D145	-0.272	3(3P)4D148	-0.245	3(3F)4F140
92	-	110180.0	-	-	0.589	2(2D)2F114	0.355	2(2D)2F115	0.324	2(2D)2F110	-0.268	2(4F)4G 57
93	-	110354.2	-	-	-0.545	3(3F)4F141	-0.310	3(3F)4D145	-0.303	3(3P)4D148	0.289	3(3F)4F140
94	-	110619.5	-	-	0.546	3(3F)4D145	-0.419	3(3P)4D148	0.340	3(3P)4D147	-0.331	2(2F)4D 83
95	-	111027.6	-	-	0.547	2(4F)4G 57	0.446	2(4F)4G 58	0.295	2(4G)4G 56	0.253	2(2D)2F114
96	-	111569.2	-	-	-0.801	3(3P)2F155	0.437	3(3P)2F154	0.159	3(3G)2F153	0.132	3(3G)4G135
97	-	111745.1	-	-	-0.830	3(3P)2D162	0.429	3(3P)2D162	0.119	3(2G)2F153	0.110	3(2P)2F155
98	-111929.000	111828.6	-	290DD	-0.563	3(3P)4G137	0.446	2(2G)4G 61	0.366	2(2H)4G 59	0.294	3(3F)4G136
99	-	112370.0	-	-	0.441	2(2G)4G 61	-0.399	3(3G)4G135	-0.331	3(3H)4G134	-0.329	2(4G)4G 56
100	-	112427.7	-	-	0.363	2(2G)4F 71	0.306	3(3F)4F141	0.297	2(4G)4F 65	-0.285	2(4D)4F 69
101	-	112686.9	-	-	-0.534	2(2G)4F 71	0.384	2(4G)4F 65	-0.304	2(4G)4F 64	-0.272	2(4D)4F 68
102	-	113194.2	-	-	-0.391	2(2F)2D119	-0.312	2(2F)2F106	-0.299	2(4F)4D 77	-0.233	2(2D)2D127
103	-	113203.1	-	-	-0.709	2(2F)2F106	-0.327	2(2F)2F107	-0.196	2(2D)2F114	-0.186	2(4G)4F 65
104	-	113356.9	-	-	0.452	2(2F)2D119	-0.381	2(4F)4D 77	-0.316	2(4F)4D 78	0.290	2(2D)2D127
105	-	113570.2	-	-	0.616	2(4P)4P 93	-0.569	2(4P)4P 92	0.256	2(4D)4P 91	-0.181	2(4D)4P 90
106	-	113671.6	-	-	0.617	2(4F)4F 66	0.458	2(4F)4F 67	0.185	2(2F)2D119	0.180	3(3P)4F141
107	-	114277.1	-	-	0.801	3(3G)4F139	0.276	2(2G)4F 71	-0.193	2(2F)4F 73	0.183	2(4G)4F 65
108	-	115110.8	-	-	0.509	2(4P)4D 82	0.476	3(3G)2F153	-0.318	2(4P)4D 81	0.254	3(3P)4D145
109	-	115187.4	-	-	-0.689	3(3G)2F153	0.433	3(3G)4G135	0.237	2(4P)4D 82	-0.213	2(4G)4G 56
110	-	115236.6	-	-	-0.637	3(3G)4G135	-0.453	3(3G)2F153	0.300	2(4G)4G 56	-0.216	2(2G)4G 61
111	-	115524.6	-	-	-0.854	1(1D)2D 39	-0.408	1(1D)2D 38	0.173	2(2F)2D119	0.127	2(2D)2D127
112	-	115918.3	-	-	0.614	2(2G)4G 61	-0.391	2(2F)4G 63	-0.364	2(2H)4G 59	-0.349	2(4D)4G 57
113	-	116608.6	-	-	-0.827	2(2F)4F 73	-0.235	3(3D)4F142	0.203	2(4D)4F 69	-0.203	3(3G)4F139
114	-	117246.1	-	-	0.533	1(1D)2F 31	-0.394	2(4F)2D116	0.368	2(2G)2F104	0.286	2(4F)2F100
115	-	117387.3	-	-	-0.613	2(4D)4D 80	0.497	2(4D)4D 79	0.231	2(4F)4D 77	0.219	2(4D)4D 81
116	-	117783.0	-	-	-0.451	2(4D)4P 91	0.384	2(4D)4P 90	0.321	3(3D)4P150	0.313	2(4F)2D116
117	-	117817.2	-	-	0.586	2(4P)2D116	0.399	1(1D)2F 31	0.305	2(4D)4P 91	-0.240	2(4D)4P 90
118	-	118044.1	-	-	0.754	2(4F)2F100	-0.308	2(2F)4G 63	0.295	2(4F)2D116	-0.240	1(1D)2F 31
119	-	118304.3	-	-	-0.699	2(2F)4G 63	0.491	2(2H)4G 59	-0.307	2(4F)2F100	-0.210	2(2G)4G 61
120	-	118534.4	-	-	0.460	2(4D)4F 69	0.337	2(2G)4F 71	-0.321	2(2F)4D 84	-0.318	3(3D)4F142
121	-	118630.8	-	-	-0.703	2(2F)4D 84	0.373	3(3D)4D146	-0.233	2(4D)4F 69	-0.173	2(2F)4F 73
122	-	119193.4	-	-	0.587	2(2G)2F104	0.335	3(1G)2F158	0.304	2(2G)2F105	-0.234	3(1G)2F157
123	-	119521.6	-	-	0.531	3(3D)4P150	-0.457	2(2F)2D121	-0.329	2(2F)2D122	-0.304	2(2G)4P 98
124	-	119687.2	-	-	0.507	3(3D)2F156	-0.464	3(1G)2F158	0.345	3(1G)2F157	0.295	2(2G)2F104
125	-	119796.6	-	-	-0.489	3(3D)4P150	-0.453	2(2F)2D121	0.325	2(2S)4P 98	-0.304	2(2F)2D122
126	-	119931.6	-	-	0.807	3(3D)4F142	0.259	2(4D)4F 69	0.193	2(2F)2D121	0.171	2(2G)4F 71
127	-	120289.9	-	-	0.789	3(3D)4D146	0.406	2(2F)4D 84	-0.218	3(3D)2D164	-0.186	3(3D)2F156
128	-	120351.3	-	-	0.631	3(3D)2F156	0.411	3(3D)2D164	0.355	3(1G)2F158	0.282	3(3D)4D146
129	-	120375.0	-	-	-0.835	3(3D)2D164	0.416	3(3D)2F156	0.193	3(1G)2F158	-0.150	3(1G)2F157
130	-	122253.7	-	-	-0.570	4(3P)4D198	0.500	4(3P)4F190	0.465	4(3P)4D197	-0.415	4(3P)4F189
131	-	122293.6	-	-	-0.519	4(3P)2F210	0.467	4(3P)2D225	0.430	4(3P)2F209	-0.381	4(3P)2D224
132	-	122808.0	-	-	-0.864	4(3H)2D219	-0.416	4(3H)4D192	0.202	4(3H)4F184	0.179	4(3H)2F204
133	-	123048.0	-	-	-0.773	4(3H)4D192	0.460	4(3H)2D219	0.404	4(3H)4F184	-0.112	4(3G)4P200
134	-	123074.9	-	-	0.631	4(3H)2F204	0.576	4(3H)4F184	0.367	4(3H)4D192	-0.326	4(3H)4G176
135	-	123213.0	-	-	0.687	2(2S)4P 98	0.431	2(4D)4P 91	0.393	3(3D)4P150	-0.241	2(4P)4P 93
136	-	123228.4	-	-	0.735	4(3H)2F204	-0.508	4(3H)4F184	0.289	4(3H)4G176	-0.250	4(3H)4D192
137	-	123241.1	-	-	-0.876	4(3H)4G176	-0.422	4(3H)4F184	-0.114	4(3H)4D192	0.085	4(3F)2D222
138	-	123343.2	-	-	-0.858	2(2F)2F108	-0.362	2(2F)2F109	-0.184	2(2F)2F106	0.133	2(2G)2F104
139	-	123569.3	-	-	0.450	4(3P)4D198	-0.382	4(3P)4G182	0.379	4(3P)4F190	-0.364	4(3P)4D197
140	-	123590.8	-	-	0.470	4(3P)2D225	0.400	4(3P)2F210	-0.389	4(3P)4G182	-0.380	4(3P)2D224
141	-	124102.7	-	-	-0.491	4(3P)4G182	0.398	4(3P)4G181	-0.345	4(3P)2D225	-0.320	4(3P)4F190
142	-	124136.5	-	-	-0.487	4(3F)4D195	0.454	4(3F)4F187	-0.348	4(3F)2D222	0.266	4(3F)4D194
143	-	124159.5	-	-	0.526	4(3F)4P202	0.470	4(3F)2D222	-0.330	4(3F)2F207	-0.326	4(3F)4D195
144	-	124366.4	-	-	0.559	4(3F)4G179	-0.492	4(3F)2D222	-0.301	4(3F)4F187	-0.300	4(3F)4G178
145	-	124388.8	-	-	0.540	4(3F)4P202	0.476	4(3F)2F207	-0.402	4(3F)4F187	-0.286	4(3F)4P201
146	-	124532.3	-	-	-0.621	4(3F)4G179	-0.456	4(3F)4F187	0.324	4(3F)4G178	-0.307	4(3F)2F207
147	-	124555.0	-	-	-0.486	4(3F)4D195	0.476	4(3F)2F207	-0.339	4(3F)4P202	0.329	4(3F)2D222
148	-	125654.3	-	-	-0.809	3(1D)2F160	0.440	3(1D)2F161	0.237	3(1D)2D168	0.130	2(2G)2F104
149	-	125838.3	-	-	-0.803	3(1D)2D168	0.428	3(1D)2D169	-0.226	3(1D)2F160	0.145	2(2D)2D128
150	-	127064.1	-	-	-0.768	4(3G)4P200	0.566	4(3G)4D193	-0.266	4(3G)4F185	0.072	4(3H)4D192
151	-	127078.9	-	-	0.722	4(3G)2D220	-0.403	4(3G)2F205	-0.366	4(3G)4F185	0.313	4(3G)4P200
152	-	127450.1	-	-	0.583	4(3G)2F205	0.527	4(3G)4D193	-0.429	4(3G)4G177	0.377	4(3G)4P200
153	-	127450.6	-	-	-0.571	4(3G)4F185	-0.521	4(3G)2D220	0.516	4(3G)4G177	0.287	4(3G)4P200
154	-	127626.9	-	-	-0.670	4(3G)4G177	-0.585	4(3G)4F185	-0.303	4(3G)4D193	-0.248	4(3G)2F205
155	-	127644.2	-	-	-0.635	4(3G)2F205	0.490	4(3G)4D193	-0.388	4(3G)2D220	0.296	4(3G)4F185
156	-	128062.2	-	-	0.547	2(2D)2F115	0.350	2(2F)2F107	0.315	2(2D)2F111	-0.273	2(2D)2D128
157	-	128494.9	-	-	-0.420	2(2D)2D128	-0.313	2(2D)2F115	0.304	2(2D)2D127	-0.259	2(2D)4D 86
158	-	128734.6	-	-	-0.713	2(2D)4D 86	0.464	2(2D)4F 75	-0.202	2(4F)4D 77	0.164	2(2D)2F115
159	-	128913.1	-	-	-0.752	2(2D)4F 75	-0.500	2(2D)4D 86	-0.179	2(4F)4F 67	0.170	2(4F)4F 66
160	-	129492.9	-	-	0.689	2(4F)4G 58	-0.538	2(4F)4G 57	0.268	2(2D)2F115	0.165	2(2F)2F107
161	-	130348.5	-	-	0.599	2(2F)2F107	-0.418	2(2F)2D120	-0.30			

175	-	132957.1	-	-	-0.696	4(3D)2F208	-0.514	4(3D)2D223	0.370	4(3D)4F188	-0.273	4(3D)4P203
176	-	133060.1	-	-	0.732	4(3D)4D196	-0.546	4(3D)4F188	-0.362	4(3D)4P203	0.144	4(3D)4G180
177	-	133086.6	-	-	-0.681	4(3D)2F208	0.599	4(3D)2D223	-0.300	4(3D)4F188	0.223	4(3D)4G180
178	-	134433.5	-	-	0.788	2(2D)2D125	0.435	2(2D)2D126	-0.260	2(2F)2D121	-0.236	3(1F)2D167
179	-	135870.5	-	-	-0.870	4(1S)2F218	0.480	4(1S)2F217	-0.067	4(3F)4G182	-0.045	4(3F)4F190
180	-	136340.5	-	-	-0.771	2(2G)2F105	0.440	2(2G)2F104	-0.255	3(1F)2F159	-0.202	3(3F)2F154
181	-	137011.5	-	-	-0.730	2(2G)4G 60	0.544	2(2G)4F 70	0.229	3(3F)4G136	0.221	3(3F)4F140
182	-	137283.5	-	-	-0.676	2(2G)4F 70	-0.557	2(2G)4G 60	-0.300	3(3F)4F140	0.227	3(3F)4G136
183	-	137851.3	-	-	0.607	3(3F)4D144	0.544	3(3F)4D147	0.438	3(3F)4D148	0.318	3(3F)4D145
184	-	138510.0	-	-	-0.824	3(3F)4G136	-0.425	3(3F)4G137	-0.358	2(2G)4G 60	-0.047	3(3F)2F154
185	-	138917.9	-	-	0.519	2(2F)2D122	0.489	3(3P)2D165	0.387	3(3P)2D166	-0.328	2(2F)2D121
186	-	139017.5	-	-	-0.873	4(1D)2D229	0.474	4(1D)2D230	0.056	4(3D)4P203	0.052	4(3D)2F208
187	-	139091.1	-	-	0.604	2(2F)2F109	0.526	3(3F)2F154	0.269	3(3F)2F155	-0.252	2(2F)2F108
188	-	139118.7	-	-	0.874	4(1D)2F215	-0.471	4(1D)2F216	0.058	4(3D)4G180	-0.049	4(3D)2D223
189	-	139261.4	-	-	-0.572	3(3P)4P151	-0.482	3(3P)4P152	0.350	3(3F)4D144	-0.260	2(2F)2D122
190	-	139428.8	-	-	0.783	3(3F)2D162	0.403	3(3F)2D163	0.231	3(3P)2D165	0.177	3(3P)2D166
191	-	139773.2	-	-	-0.478	3(3P)4D147	0.476	3(3F)4D144	-0.392	3(3P)4D148	0.370	3(3P)4P151
192	-	139866.7	-	-	-0.678	3(3F)4F140	-0.363	3(3F)4F141	0.354	3(3F)2F154	0.334	2(2G)4F 70
193	-	140125.3	-	-	-0.503	3(3F)2F154	0.462	2(2F)2F109	-0.348	2(2G)2F102	-0.325	3(3F)4F140
194	-	140817.3	-	-	-0.527	3(3P)2D165	0.497	2(2F)2D122	-0.451	3(3P)2D166	-0.352	2(2F)2D121
195	-	142363.6	-	-	-0.690	2(2G)2F102	-0.423	2(2G)2F103	0.270	2(2D)2F112	-0.268	2(2F)2F109
196	-	145233.6	-	-	0.994	4(1F)2D228	-0.052	4(3F)4P201	-0.042	4(3F)2F206	0.039	4(3F)4F186
197	-	145356.4	-	-	0.994	4(1F)2F214	0.052	4(3F)4G178	-0.044	4(3F)2D221		
198	-	146322.5	-	-	0.756	3(1G)2F157	0.567	3(1G)2F158	-0.163	2(2D)2F112	0.159	2(2D)2F113
199	-	149456.7	-	-	0.871	2(2P)4P 97	-0.430	2(2D)4P 94	0.190	2(2D)4P 96	0.095	3(3P)4P151
200	-	150900.4	-	-	0.818	2(2D)2D126	-0.453	2(2D)2D125	0.191	2(2D)2F113	-0.146	2(2F)2D122
201	-	151065.1	-	-	0.792	2(2D)2F113	-0.424	2(2D)2F112	-0.218	2(2G)2F102	-0.206	2(2D)2D126
202	-	151292.2	-	-	0.533	4(3P)4G181	0.429	4(3P)4G182	0.325	4(3P)2D224	0.307	4(3P)4F189
203	-	151662.9	-	-	0.482	4(3P)4G181	-0.480	4(3P)2D224	0.391	4(3P)4G182	-0.389	4(3P)2D225
204	-	151731.7	-	-	0.402	4(3P)2F209	-0.382	4(3P)4D197	-0.360	4(3P)4F189	0.329	4(3P)2F210
205	-	151876.8	-	-	0.873	4(3F)4P201	0.462	4(3F)4P202	-0.055	4(3P)4D197	-0.054	4(3F)2F206
206	-	151962.9	-	-	-0.832	4(3F)4D194	-0.442	4(3F)4D195	0.158	4(3P)4F189	0.130	4(3D)4F190
207	-	152023.5	-	-	0.822	4(3F)2D221	0.440	4(3F)2D222	0.158	4(3F)4G178	-0.146	4(3F)4F186
208	-	152082.1	-	-	-0.741	4(3F)4F186	-0.393	4(3F)4F187	-0.332	4(3F)2F206	-0.180	4(3F)2F207
209	-	152136.4	-	-	0.759	4(3F)2F206	0.402	4(3F)2F207	-0.315	4(3F)4F186	0.208	4(3P)4D197
210	-	152227.9	-	-	-0.811	4(3F)4G178	-0.430	4(3F)4G179	0.161	4(3F)2D221	0.157	4(3P)4G181
211	-	152595.5	-	-	-0.959	2(2P)4D 88	-0.199	2(2D)4D 85	-0.095	2(2F)4D 84	0.082	2(2D)4D 87
212	-	152636.4	-	-	-0.502	4(3P)4D197	-0.410	4(3P)4D198	-0.358	4(3P)2F209	0.350	4(3P)4F189
213	-	152693.7	-	-	0.441	4(3P)4F189	0.430	4(3P)2F209	0.366	4(3P)4F190	0.356	4(3P)2F210
214	-	155443.3	-	-	0.752	2(2P)2D129	0.494	2(2P)2D130	0.275	2(2D)2D123	0.215	2(2D)2D124
215	-	159170.0	-	-	0.796	4(1G)2D226	0.594	4(1G)2D227	-0.084	4(1G)2F212	-0.062	4(1G)2F213
216	-	159190.9	-	-	-0.797	4(1G)2F212	-0.592	4(1G)2F213	0.084	4(1G)2D226	-0.062	4(1G)2D227
217	-	159265.0	-	-	0.818	2(2G)2F103	-0.461	2(2G)2F102	-0.167	3(1D)2F161	0.138	2(2D)2F111
218	-	159957.3	-	-	-0.834	2(2D)4F 74	0.474	2(2D)4F 76	0.192	2(2G)4F 70	0.155	2(2D)4D 85
219	-	161441.5	-	-	0.832	2(2D)4D 85	-0.465	2(2D)4D 87	-0.222	2(2P)4D 88	0.150	2(2D)4F 74
220	-	162488.5	-	-	0.737	2(2D)4P 94	0.458	2(2P)4P 97	-0.438	2(2D)4P 96	-0.118	2(2D)2D123
221	-	163405.2	-	-	0.597	3(1D)2D169	0.451	2(2D)2D123	0.321	3(1D)2D168	0.320	2(2D)2D124
222	-	164691.2	-	-	0.732	2(2D)2F110	-0.415	2(2D)2F114	0.398	2(2D)2F111	-0.223	2(2D)2F115
223	-	164844.4	-	-	0.845	3(1D)2F161	0.461	3(1D)2F160	-0.167	2(2G)2F103	0.095	2(2D)2D123
224	-	165164.2	-	-	0.614	3(1D)2D169	-0.443	2(2D)2D123	0.325	3(1D)2D168	-0.283	2(2D)2D124
225	-	173651.3	-	-	0.809	2(2P)2D130	-0.493	2(2P)2D129	-0.197	2(2D)2D123	0.163	2(2D)2D124
226	-	177638.3	-	-	0.879	4(1D)2F216	0.475	4(1D)2F215				
227	-	177828.5	-	-	-0.878	4(1D)2D230	-0.478	4(1D)2D229				
228	-	181686.7	-	-	-0.741	2(2D)2F111	0.419	2(2D)2F115	0.400	2(2D)2F110	-0.227	2(2D)2F114
229	-	182534.9	-	-	0.685	2(2D)2D124	-0.456	2(2D)2D123	-0.389	2(2D)2D128	0.253	2(2D)2D127
230	-	198086.6	-	-	0.876	4(1S)2F217	0.482	4(1S)2F218				

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D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS	
1	38660.043	38714.2	54.1	4P (5D)6D	0.988 1(5D)6D 2 -0.095 1(5D)6P 3 -0.089 1(5D)6F 1 0.046 1(5D)4D 15
2	42237.033	42196.5	-40.6	4P (5D)6F	0.978 1(5D)6F 1 0.134 1(5D)4F 10 -0.091 1(5D)6P 3 0.079 1(5D)6D 2
3	42658.224	42682.9	24.6	4P (5D)6P	0.965 1(5D)6P 3 0.179 2(6S)6P 48 -0.112 1(5D)4D 15 0.110 1(5D)6D 2
4	44446.878	44366.3	-80.6	4P (5D)4D	-0.944 1(5D)4D 15 0.239 1(5D)4F 10 -0.122 1(5D)6P 3 -0.097 1(3F)4D 17
5	44753.799	44840.5	86.7	4P (5D)4F	-0.951 1(5D)4F 10 -0.233 1(5D)4D 15 0.148 1(5D)6F 1 0.078 1(3G)4F 11
6	52582.510	52576.6	-5.9	4SP(7S)8P	-0.999 2(6S)8P 37
7	60956.781	60956.7	-0.1	4P (3H)4G	-0.679 1(3H)4G 6 -0.574 1(3F)4G 9 -0.240 1(3G)4G 7 0.237 1(3F)4G 8
8	61156.835	61203.1	46.3	4P (3H)4H	0.795 1(3H)4H 4 0.338 1(3H)2G 21 -0.273 1(3G)4H 5 -0.255 1(3H)4G 6
9	61726.077	61910.9	184.8	4P (3P)4D	0.671 1(3P)4D 20 -0.536 1(3P)4D 19 0.319 1(3F)4F 13 -0.184 1(3F)4F 12
10	62065.521	62067.1	1.6	4P (3F)4F	-0.549 1(3F)4F 13 0.374 1(3F)4D 20 0.320 1(3F)4F 12 -0.290 1(3H)4H 4
11	62322.431	62328.1	5.6	4P (3H)2G	0.652 1(3H)2G 21 0.400 1(3F)4F 13 0.326 1(3G)2G 22 -0.251 1(3H)4H 4
12	62171.615	62365.0	193.4	4SP(7S)6P	-0.736 2(6S)6P 47 -0.652 2(6S)6P 48 0.121 1(5D)6P 3 0.087 2(4D)6P 49
13	62945.038	63064.5	119.5	4P (3F)4D	0.763 1(3F)4D 17 -0.384 1(3F)4D 16 -0.242 1(3D)4D 18 0.234 1(3F)4F 13
14	64040.886	63976.4	-64.5	4P (3F)4G	0.541 1(3F)4G 9 -0.519 1(3H)4G 6 0.342 1(3F)2F 30 -0.324 1(3F)4G 8
15	64286.345	64127.8	-158.5	4P (3F)2F	-0.548 1(3F)2F 30 0.368 1(3F)2F 29 -0.321 1(3H)4G 6 0.304 1(3G)2F 28
16	65109.679	65047.0	-62.7	4P (3F)2G	-0.811 1(3F)2G 24 0.410 1(3F)2G 23 0.191 1(3G)4G 7 0.164 1(1G)2G 26
17	65931.334	65822.5	-108.9	4P (3G)4G	-0.858 1(3G)4G 7 0.340 1(3G)4F 11 0.241 1(3F)4G 9 -0.157 1(3F)4F 13
18	66377.283	66271.1	-106.2	4P (3G)4F	0.834 1(3G)4F 11 0.363 1(3G)4G 7 0.279 1(3D)4F 14 -0.141 1(3H)4G 6
19	66672.334	66599.6	-72.8	4P (3G)4H	0.920 1(3G)4H 5 0.338 1(3H)4H 4 0.108 1(3F)2G 24 0.084 1(3F)4G 9
20	69606.552	69661.9	55.4	4P (3G)2F	-0.785 1(3G)2F 28 -0.336 1(3F)2F 30 -0.294 1(3D)2F 31 0.256 1(3G)2G 22
21	70523.706	70464.4	-59.3	4P (3G)2G	0.846 1(3G)2G 22 -0.359 1(3H)2G 21 0.179 1(3G)2F 28 0.154 1(3D)2F 31
22	72352.024	72130.8	-221.3	4P (3D)4F	0.766 1(3D)4F 14 -0.302 1(3D)4D 18 -0.280 1(3G)4F 11 -0.227 1(1G)2F 33
23	72651.876	72404.5	-247.4	4P (3D)4D	-0.518 1(3D)4D 18 -0.503 1(3D)4F 14 -0.416 1(1G)2F 33 0.333 1(3D)2F 31
24	73143.288	72599.0	-544.3	4P (1G)2G	-0.710 1(1G)2G 26 0.492 1(1G)2G 25 0.344 1(3D)4D 18 -0.230 1(3H)2G 21
25	73016.147	72776.9	-239.2	4P (1G)2F	-0.648 1(3D)4D 18 0.405 1(1G)2F 33 -0.282 1(1G)2F 32 -0.266 1(3D)2F 31
26	75600.931	75277.1	-323.9	4P (3D)2F	0.796 1(3D)2F 31 0.361 1(1G)2F 33 -0.352 1(1G)2F 32 -0.220 1(3G)2F 28
27	78137.364	78814.8	677.4	4P (1D)2F	0.820 1(1D)2F 35 -0.441 1(1D)2F 36 -0.199 1(3G)2F 28 0.194 1(1G)2F 33
28	79331.500	79216.1	-115.4	4SP(5S)6P	0.691 2(6S)6P 47 -0.667 2(6S)6P 47 -0.162 2(4D)6P 49 0.137 3(5D)6P122
29	83305.251	83373.4	68.1	4P (1F)2G	0.958 1(1F)2G 27 -0.151 1(3F)2G 23 -0.113 1(3G)2G 22 -0.106 1(1G)2G 26
30	-	85064.1	-	-	-0.969 2(4G)6G 39 0.194 2(4G)6H 38 0.133 2(4F)6G 40 0.048 2(4G)6F 41
31	-	86138.3	-	-	-0.979 2(4G)6H 39 -0.194 2(4G)6G 39 -0.042 2(2F)4G 64
32	86482.750	86559.3	76.5	4P (1F)2F	0.900 1(1F)2F 34 -0.235 1(3F)4D 16 0.144 1(1G)2F 33 -0.141 1(3P)4D 19
33	86929.649	87013.8	84.1	4P (3P)4D	0.650 1(3P)4D 16 0.471 1(3P)4D 19 0.355 1(3P)4D 20 0.332 1(3F)4D 17
34	87537.652	87470.5	-67.1	4SP(5G)6F	0.802 2(4G)6F 41 0.349 3(

38	89890.373	89689.9	-200.5	4P (3F)4G	-0.872 1(3F)4G 8	-0.425 1(3F)4G 9	-0.144 2(4G)4G 58	-0.083 2(4G)4G 57
39	90300.625	90269.9	-30.7	5P (5D)6F	-0.715 3(5D)4F129	-0.557 3(5D)6F120	0.284 3(5D)4D134	0.237 2(4G)6F 41
40	90397.868	90480.5	82.7	5P (5D)4D	0.771 3(5D)4D134	0.555 3(5D)6F120	-0.213 2(4G)6F 41	-0.190 3(5D)4F129
41	90780.621	90727.9	-52.7	5P (5D)4F	-0.644 3(5D)4F129	-0.548 3(5D)4D134	0.475 3(5D)6F120	-0.166 2(4G)6F 41
42	91167.937	91189.0	21.0	5P (5D)6P	-0.720 3(5D)6P122	0.559 2(4G)6P 50	0.296 2(4G)6P 49	0.218 2(6S)6P 48
43	92089.260	92101.6	12.4	4SP (5G)4H	0.724 2(4G)4H 51	0.610 2(4G)4H 52	-0.246 2(4D)6F 43	0.110 2(2I)4H 53
44	92154.165	92137.0	-17.2	4SP (5D)6F	0.900 2(4D)6F 43	0.271 2(4G)6F 41	0.199 2(4G)4H 51	0.168 2(4G)4H 52
45	92602.703	92404.2	-198.5	4P (3F)2G	0.640 1(3F)2G 23	-0.433 1(3F)4F 12	0.329 1(3F)2G 24	0.296 2(4G)4F 67
46	92822.460	92598.1	315.7	4SP (5G)4F	0.548 1(3F)2G 23	-0.423 2(4G)4F 62	-0.404 2(4G)4F 66	0.389 1(3F)4F 12
47	93129.900	93151.7	21.8	4P (3F)4D	-0.495 1(3P)4D 19	0.445 1(3F)4D 16	-0.407 1(3P)4D 20	-0.313 2(4G)4F 66
48	93487.650	93455.8	-31.9	4P (3F)4F	-0.554 1(3F)4F 12	-0.357 2(4G)4F 66	-0.356 1(3F)4F 13	0.303 1(3P)4D 19
49	93987.457	93812.9	-174.5	4SP (5D)6D	0.771 2(4D)6D 45	-0.426 2(4D)6P 49	0.345 2(4P)6D 46	0.215 3(5D)6D121
50	94073.240	94161.1	87.8	4SP (5G)4G	-0.814 2(4G)4G 57	-0.497 2(4G)4G 58	-0.115 2(4G)2F103	0.111 1(3F)4G 8
51	94763.219	94603.5	-159.7	4SP (5D)6P	-0.744 2(4D)6P 49	0.462 2(4P)6P 50	-0.404 2(4D)6D 45	-0.149 2(4P)6D 46
52	95079.640	95097.5	17.9	4P (3F)2F	0.735 1(3F)2F 29	-0.436 2(4G)2F103	0.424 1(3P)2F 30	-0.146 1(1G)2F 33
53	96217.420	96143.1	-74.3	4SP (5P)4D	-0.737 2(4P)4D 83	-0.586 2(4P)4D 84	-0.131 2(4D)4F 70	0.106 2(4D)4D 81
54	96356.960	96422.6	65.6	4SP (3G)2F	-0.842 2(4G)2F103	-0.345 1(3F)2F 29	-0.274 1(3P)2F 30	-0.200 2(4F)2F104
55	98391.330	98427.8	36.5	4SP (5D)4D	0.669 2(4D)4D 81	0.947 2(4D)4D 82	-0.187 2(4D)4F 70	0.187 2(4F)4D 80
56	98535.850	98700.0	164.2	4SP (5D)4F	-0.714 2(4D)4F 70	-0.567 2(4D)4F 70	-0.182 2(4D)4D 81	0.176 2(2G)4F 73
57	98898.710	99041.3	142.6	4P (1G)2F	0.653 1(1G)2F 32	0.485 1(1G)2F 31	-0.391 1(1G)2G 25	-0.269 1(1G)2G 26
58	99635.520	99709.6	74.1	4SP (3G)2G	0.662 2(4G)2G 91	-0.485 1(1G)2G 25	-0.336 1(1G)2G 26	-0.309 1(1G)2F 32
59	99808.400	99965.9	157.5	4P (1G)2G	0.697 2(4G)2G 91	0.494 1(1G)2G 25	0.345 1(1G)2G 26	0.201 1(1G)2F 32
60	102887.120	102879.1	-8.1	4F (5D)4[1]	0.526 4(5D)6F158	0.523 2(4D)4F175	-0.397 4(5D)6G157	-0.330 4(5D)4D183
61	102942.200	102935.7	-6.5	4F (5D)4[3]	-0.540 4(5D)6D159	-0.510 4(5D)4F175	0.443 4(5D)6F158	0.305 4(5D)4D183
62	103183.700	103116.4	-67.3	4SP (3D)2F	0.959 2(3D)2F105	-0.139 2(2G)2F108	-0.105 2(2G)2F108	-0.093 2(4F)2F104
63	103340.640	103342.0	1.4	4F (5D)3[4]	-0.700 4(5D)6G157	0.460 4(5D)6D159	0.336 4(5D)4D183	0.246 4(5D)6H156
64	103385.730	103384.8	-0.9	4F (5D)3[3]	-0.677 4(5D)4G167	0.483 4(5D)4D183	0.309 4(5D)4D183	-0.282 4(5D)6F158
65	103676.780	103682.8	6.0	4F (5D)2[3]	0.583 4(5D)6F158	0.451 4(5D)6G157	-0.404 4(5D)6P160	-0.335 4(5D)4G167
66	103711.570	103715.2	3.6	4F (5D)2[4]	-0.587 4(5D)4D183	-0.548 4(5D)4F175	0.341 4(5D)4H161	0.335 4(5D)6H156
67	103882.680	103886.6	3.9	4F (5D)1[4]	0.714 4(5D)6H156	0.393 4(5D)4H161	0.350 4(5D)4G167	0.286 4(5D)6G157
68	103969.760	103983.9	14.2	4F (5D)1[3]	-0.736 4(5D)4H161	0.451 4(5D)6H156	-0.381 4(5D)6P160	-0.214 4(5D)6D159
69	104022.890	104031.3	8.4	4F (5D)0[3]	0.673 4(5D)6P160	0.469 4(5D)6D159	-0.320 4(5D)4H161	0.259 4(5D)6F158
70	-	104736.6	-	-	0.571 2(2D)4F 78	-0.519 2(4F)6G 40	0.433 2(2F)4F 74	0.333 2(2D)4F 76
71	105028.600	104962.7	-65.9	4SP (3I)4H	-0.924 2(2I)4H 53	0.213 2(2I)4H 51	-0.170 2(2G)4H 52	0.122 2(2G)4H 55
72	-	105190.7	-	-	0.825 2(4F)6G 40	0.351 2(2F)4F 74	0.281 2(2D)4F 78	0.158 2(2D)4F 76
73	-	105895.6	-	-	0.907 2(4F)6F 42	-0.296 2(4F)6D 44	0.161 2(4D)6F 43	-0.129 2(4G)6F 41
74	-	106786.7	-	-	0.580 2(2D)4D 89	-0.402 2(4F)6D 44	-0.337 2(2F)4G 64	0.333 2(2D)4D 87
75	-106863.200	107160.5	-	16ODD	-0.745 2(4F)6D 44	0.462 2(2F)4G 64	-0.292 2(4F)6F 42	0.241 2(2F)4D 74
76	-107165.600	107306.9	-	17ODD	0.592 2(2F)4G 64	0.360 2(4F)6D 44	0.357 2(2D)4D 89	-0.302 2(2F)4D 85
77	-107886.600	107813.3	-	20ODD	0.505 2(2F)4F 74	-0.453 2(2D)4F 78	-0.352 2(2F)4G 64	-0.314 2(2F)4D 85
78	-108239.200	108225.2	-	24ODD	0.582 2(2F)4D 85	-0.387 3(3P)4D139	0.363 2(2D)4D 89	0.321 3(3P)4D138
79	108631.090	108751.6	120.5	4SP (3G)4G	0.545 3(3H)4G125	-0.433 2(4G)4G 58	0.349 2(4G)4G 57	-0.302 2(3H)4G 61
80	108906.640	108894.1	-12.5	4SP (3G)4H	0.722 3(3H)4H123	0.446 2(4G)4H 52	-0.393 2(4G)4H 51	0.151 3(3H)4G125
81	-108373.800	109270.0	-	26ODD	0.623 2(2H)4H 54	-0.557 2(2G)4H 56	0.316 2(4G)4H 52	-0.299 2(4G)4H 51
82	-	109466.5	-	-	0.581 3(3P)4D139	0.474 2(2F)4D 85	-0.472 3(3P)4D138	0.206 3(3F)4H136
83	-	109602.5	-	-	-0.612 3(3H)4G125	-0.442 3(3P)4G128	-0.364 2(2H)4G 61	-0.248 2(2F)4G 65
84	-	109808.1	-	-	0.597 2(2F)2G 99	0.386 2(2F)2G100	0.223 3(3H)2G140	0.223 2(2F)2G118
85	-	110039.8	-	-	-0.517 3(3F)4F132	0.372 3(3F)4D136	0.280 3(3F)4F131	0.280 3(3H)2G140
86	-	110317.9	-	-	0.490 3(3F)4F132	0.450 3(3H)2G140	0.422 3(3F)4D136	-0.264 3(3F)4F131
87	-	110387.1	-	-	0.699 3(3H)2G140	-0.471 3(3F)4D136	0.259 3(3F)4D135	0.161 2(4P)4D 84
88	-	110583.4	-	-	0.568 2(2D)2F118	0.355 2(2D)2F119	0.311 2(2D)2F114	-0.243 2(2F)2G 99
89	-	111022.3	-	-	-0.552 2(4F)4G 59	-0.451 2(4F)4G 60	-0.290 2(4G)4G 58	0.250 2(2H)4G 61
90	-	111298.9	-	-	-0.691 3(3P)2F149	0.394 3(3P)2G143	0.392 3(3F)2F148	-0.209 3(3P)2G142
91	-	111477.5	-	-	-0.691 3(3P)2G143	0.364 3(3P)2G142	-0.351 3(3F)2F149	-0.238 3(3H)2G140
92	-	111732.4	-	-	-0.468 3(3H)4H123	0.392 2(4G)4H 52	0.375 3(3F)4G128	0.309 2(2G)4H 56
93	-	111839.6	-	-	-0.384 3(3F)4G128	0.303 2(2G)4G 63	-0.302 3(3H)4H123	0.292 2(4G)4H 52
94	-	112293.7	-	-	0.425 3(3G)4G126	-0.358 2(2G)4G 63	0.348 2(4G)4G 58	-0.322 3(3P)4G128
95	-	112362.5	-	-	0.422 2(2G)4F 73	0.357 3(3F)4F132	-0.300 3(3G)4F130	0.289 2(4D)4F 70
96	-	112568.4	-	-	0.500 2(2G)4F 73	-0.313 2(4F)4D 79	-0.304 2(4G)4F 67	-0.267 2(4F)4D 80
97	-	113099.3	-	-	-0.412 2(4F)4D 79	-0.350 2(2G)4F 73	-0.324 2(4F)4D 80	0.310 2(4G)4F 67
98	-	113239.4	-	-	-0.724 2(2F)2F110	-0.327 2(2F)2F111	-0.218 2(2D)2F118	0.205 2(4F)4F 68
99	-	113513.1	-	-	0.572 2(4F)4F 68	0.439 2(4F)4F 69	-0.292 3(3G)4F130	0.203 2(4F)4D 79
100	-	113842.7	-	-	-0.459 2(2G)2G 97	-0.367 2(2H)2G 93	0.351 2(2F)2G 99	-0.298 2(2G)2G 98
101	-	114136.4	-	-	-0.693 3(3G)4F130	-0.311 3(3G)4H124	-0.256 2(2G)4F 73	0.186 3(3G)4G126
102	-	114142.6	-	-	-0.840 3(3G)4H124	0.204 3(3G)4F130	-0.185 3(3G)2G141	-0.169 2(2G)4H 56
103	-	114614.9	-	-	0.557 2(2H)4H 54	0.528 2(2G)4H 56	0.378 3(3G)2G141	-0.323 3(3G)4H124
104	-	114729.4	-	-	-0.605 3(3G)2F147	0.461 3(3G)2G141	-0.341 2(2H)4H 54	-0.288 2(2G)4H 56
105	-	115036.0	-	-	0.497 3(3G)2G141	0.482 3(3G)2F147	0.336 2(4P)4D 84	0.280 2(4F)2G 92
106	-	115156.1	-	-	0.489 2(4P)4D 84	-0.431 3(3G)2F147	-0.320 2(4P)4D 83	-0.291 3(3G)2G141
107	-	115198.0	-	-	-0.731 3(3G)4G126	0.355 2(4G)4G 58	-0.240 2(2G)4G 63	-0.239 2(2H)4G 61
108	-	115472.3	-	-	-0.712 2(4F)2G 92	0.402 3(3G)2G141	0.227 2(2G)4G 63	0.216 2(2F)2G101
109	-	116002.5	-	-	-0.561 2(2G)4G 63	0.373 2(2F)4G 65	0.323 2(4F)4G 59	0.319 2(2H)4G 61
110	-	116670.8	-	-	0.814 2(2F)4F 75	0.238 3(3D)4F133	-0.220 2(4D)4F 71	0.199 2(4G)4F 67
111	-	117113.4	-	-	-0.665 2(4D)4D 82	0.541 2(4D)4D 81	0.258 2(4F)4D 79	-0.213 3(3P)4D137
112	-	117446.0	-	-	0.544 2(4F)2F104	0.460 1(1D)2F 36	0.420 2(2G)2F108	0.253 2(2G)2F109
113	-	118004.2	-	-	-0.666 2(4F)2F104	0.493 1(1D)2F 36	0.250 1(1D)2F 35	0.211 2(2F)2F108
114	-	118287.0	-	-	0.631 2(2F)4G 65	-0.403 2(2H)4G 61	-0.270 2(4D)4F 71	0.232 2(2F)2G101
115	-	118495.5	-	-	0.432 2(4D)4F 71	0.313 2(2G)4F 73	-0.295 2(2F)4D 86	-0.287 2(4F)4F 70
116	-	118615.3	-	-	-0.402 2(2F)2G101	-0.396 2(2F)4D 86	0.338 2(2F)4G 65	-0.282 2(4F)2G 92
117	-	118641.7	-	-	0.622 2(2F)4D 86	-0.320 3(3D)4D137	0.312 2(2F)4G 65	0.222 2(4D)4F 71
118	-	118959.7	-	-	-0.575 2(2G)2F108	0.410 1(1D)2F 36	-0.291 3(1G)2F152	0.266 1(1D)2F 35
119	-	119650.7	-	-	0.572 3(1G)2F152	-0.426 3(1G)2F151	-0.366 3(3D)2F150	-0.331 3(1G)2G145
120	-	119734.2	-	-	-0.687 3(1G)2G145	0.501 3(1G)2G144	-0.254 3(1G)2F152	0.194 3(1G)2F151
121	-	119984.3	-	-	-0.890 3(3D)4F133	-0.259 2(4D)4F 71	-0.173 2(2G)4F 73	0.171 2(4D)4F 70
122	-	120323.3	-	-	-0.711 3(3D)2F150	0.489 3(3D)4D137	-0.282 3(1G)2F152	0.238 2(2F)4D 86
123	-	120419.0	-	-	-0.712 3(3D)4D137	-0.521 3(3D)2F150	-0.326 2(2F)4D 86	-0.159 3(1G)2F152
124	-	122261.9	-	-	-0.606 4(3P)4F182	0.502 4(3P)4F181	0.363 4(3P)4D190	0.307 4(3P)4G174
125	-	122273.0	-	-	-0.551 2(2F)2G101	0.499 2(2H)2G 93	-0.401 2(2G)2G 97	-0.321 2(2F)2G102
126	-	122282.2	-	-	0.600 4(3P)2F210	-0.497 4(3P)2F209	-0.359 4(3P)2G197	0.294 4(3P)2G196
127	-	122825.2	-	-	-0.945 4(3H)4D184	0.288 4(3H)4F176	-0.130 4(3H)2F204	-0.052 4(1I)2F211
128	-	122857.1	-	-	-0.815 4(3H)2F204	-0.470 4(3H)4F176	0.257 4(3H)4G168	0.198 4(3H)2G191
129	-	123075.0	-	-	0.659 4(3H)4F176	-0.517 4(3H)2F204	-0.423 4(3H)4G168	0.292 4(3H)4D184
130	-	123100.8	-	-	0.609 4(3H)4G168			

138	-	124135.6	-	-	-0.598	4(3P)4D187	-0.429	4(3P)2F207	0.349	4(3F)4F179	0.328	4(3F)4D186
139	-	124341.2	-	-	0.476	4(3P)4H165	-0.448	4(3P)2F207	-0.444	4(3F)4G171	-0.273	4(3F)2G194
140	-	124366.4	-	-	-0.531	4(3F)4D187	-0.448	4(3F)2G194	-0.385	4(3F)4F179	0.298	4(3F)4G171
141	-	124513.6	-	-	-0.713	4(3F)4H165	-0.398	4(3F)4G171	0.373	4(3F)4H164	-0.279	4(3F)2G194
142	-	124536.8	-	-	0.531	4(3F)2G194	-0.445	4(3F)4F179	-0.384	4(3F)4G171	0.283	4(3F)2F207
143	-	125750.6	-	-	-0.844	3(1D)2F154	0.460	3(1D)2F155	0.127	2(2G)2F108	0.112	2(2F)2F112
144	-	127056.3	-	-	0.673	4(3G)4D185	-0.630	4(3G)4F177	0.328	4(3G)4G169	-0.123	4(3G)2F205
145	-	127069.4	-	-	0.728	4(3G)2F205	0.427	4(3G)4D185	-0.381	4(3G)2G192	-0.312	4(3G)4G169
146	-	127445.1	-	-	0.590	4(3G)4G169	-0.527	4(3G)4H163	0.520	4(3G)2F205	-0.232	4(3G)4D185
147	-	127447.4	-	-	-0.593	4(3G)2G192	-0.525	4(3G)4F177	-0.462	4(3G)4D185	0.304	4(3G)4H163
148	-	127607.6	-	-	-0.740	4(3G)4H163	-0.531	4(3G)4G169	-0.258	4(3G)4F177	-0.233	4(3G)2G192
149	-	127631.8	-	-	0.642	4(3G)2G192	-0.472	4(3G)4F177	0.368	4(3G)2F205	-0.335	4(3G)4G169
150	-	127757.3	-	-	-0.580	2(2D)2F119	0.471	2(2F)2G100	-0.328	2(2D)2F115	0.316	2(2D)2F118
151	-	128843.5	-	-	-0.794	2(2D)4D 88	0.432	2(2D)4F 77	-0.245	2(4F)4D 79	0.189	2(4F)4D 80
152	-	129060.3	-	-	0.773	2(2D)4F 77	0.410	2(2D)4D 88	0.227	2(4F)4F 69	-0.213	2(4F)4F 68
153	-	129284.5	-	-	0.717	2(4F)4G 60	-0.569	2(4F)4G 59	-0.247	2(2F)2G100	-0.174	2(4F)4F 77
154	-	129902.4	-	-	-0.554	2(2F)2G100	-0.463	2(2F)2F111	-0.348	2(2D)2F119	0.328	2(2F)2G 99
155	-	130263.7	-	-	-0.648	2(2F)2F111	0.349	2(2F)2F110	0.329	2(2F)2G100	0.263	2(2D)2F119
156	-	130600.7	-	-	0.690	2(4F)4F 69	-0.514	2(4F)4F 68	-0.337	2(2D)4F 77	-0.137	2(2G)4F 72
157	-	131684.5	-	-	-0.669	2(4F)4D 80	0.503	2(4F)4D 79	-0.333	2(2D)4D 88	-0.173	3(1F)2F153
158	-	131698.8	-	-	0.959	3(1F)2G146	-0.124	2(2H)2G 94	0.109	2(2H)2G 93	-0.101	3(3F)2G142
159	-	132189.9	-	-	-0.858	3(1F)2F153	-0.172	2(2F)2F113	-0.170	2(2G)2F108	0.156	2(2D)2F117
160	-	132619.3	-	-	0.632	2(2D)2F116	0.374	2(2D)2F117	-0.343	2(2G)2G 94	-0.310	2(2G)2G 98
161	-	132710.6	-	-	0.792	4(1G)2G200	-0.584	4(1G)2G199	-0.111	4(1I)2G198	0.067	4(3H)4H162
162	-	132751.3	-	-	0.791	4(1G)2F213	-0.586	4(1G)2F212	-0.129	4(1I)2F211	-0.058	4(3F)4D187
163	-	132838.1	-	-	-0.439	2(2H)2G 94	-0.438	2(2D)2F116	-0.363	2(2G)2G 98	0.299	2(2H)2G 93
164	-	132884.7	-	-	0.989	4(1I)2F211	0.101	4(1G)2F213	-0.078	4(1G)2F212	-0.046	4(3H)4D184
165	-	132897.3	-	-	0.984	4(3D)4H166	0.124	4(3D)4G172	0.105	4(3D)2G195		
166	-	132919.5	-	-	-0.632	4(3D)4F180	-0.564	4(3D)4D188	-0.455	4(3D)4G172	0.223	4(3D)2G195
167	-	132937.3	-	-	0.665	4(3D)4G172	-0.582	4(3D)4D188	-0.397	4(3D)2G195	0.199	4(3D)2F208
168	-	132950.3	-	-	0.743	4(3D)2G195	0.474	4(3D)2F208	0.318	4(3D)4G172	0.256	4(1I)2G198
169	-	132964.6	-	-	-0.956	4(1I)2G198	0.235	4(3D)2G195	0.128	4(3D)2F208	-0.070	4(1G)2G200
170	-	133069.7	-	-	0.751	4(3D)4F180	-0.525	4(3D)4D188	-0.393	4(3D)4G172	0.055	4(3D)4H166
171	-	133101.6	-	-	0.831	4(3D)2G208	-0.405	4(3D)2G195	-0.271	4(3D)4G172	0.243	4(3D)4D188
172	-	135871.2	-	-	-0.870	4(1S)2F218	0.480	4(1S)2F217	-0.052	4(3P)4F182	0.051	4(3P)2G197
173	-	136095.3	-	-	-0.880	2(2G)4H 55	-0.239	2(2G)2G 98	0.188	2(2G)2F109	0.144	2(2G)4G 62
174	-	136132.4	-	-	0.473	2(2G)2G 98	-0.434	2(2G)2F109	-0.423	2(2G)4H 55	-0.292	2(2G)2G 97
175	-	136594.2	-	-	-0.607	2(2G)2F109	0.344	2(2G)2F108	-0.318	2(2G)2G 98	0.317	2(2F)2G102
176	-	136931.2	-	-	0.757	2(2G)4F 72	-0.476	2(2G)4G 62	0.290	3(3F)4F131	0.158	3(3F)4F132
177	-	137320.6	-	-	0.766	2(2G)4G 62	0.439	2(2G)4F 72	-0.294	3(3F)4G127	0.198	3(3F)4F131
178	-	138065.4	-	-	0.717	3(3F)4D135	0.444	3(3F)4D136	0.384	3(3F)4D136	0.359	3(3F)4D139
179	-	138593.6	-	-	-0.792	3(3F)4G127	-0.413	3(3F)4G128	-0.338	2(2G)4G 62	-0.169	2(2F)2G102
180	-	138733.7	-	-	-0.529	2(2F)2G102	0.442	3(3F)2G142	0.358	2(2F)2G101	0.279	2(2H)2G 94
181	-	139122.0	-	-	0.872	4(1D)2F215	-0.470	4(1D)2F216	-0.064	4(1D)2G202	-0.056	4(3D)4D188
182	-	139129.6	-	-	0.873	4(1D)2G202	-0.470	4(1D)2G203	0.064	4(1D)2F215	0.044	4(3D)4H166
183	-	139178.5	-	-	-0.675	2(2F)2F113	-0.425	3(3F)2F148	0.287	2(2F)2F112	-0.240	3(3F)4F131
184	-	139459.8	-	-	0.700	3(3F)2G142	-0.360	2(2G)2G 95	0.354	3(3F)2G143	-0.231	2(2H)2G 94
185	-	139889.6	-	-	-0.536	3(3F)4F131	0.462	3(3F)2F148	-0.291	3(3F)4F132	0.263	3(3F)2F149
186	-	139971.8	-	-	0.474	3(3P)4D138	0.412	3(3F)2F148	0.389	3(3P)4D139	-0.351	3(3F)4D135
187	-	140045.2	-	-	-0.517	3(3F)4F131	0.321	2(2F)2F113	0.311	3(3P)4D138	-0.282	3(3F)4F132
188	-	141896.0	-	-	-0.649	2(2G)2G 95	-0.409	2(2G)2G 96	0.293	2(2H)2G 94	-0.286	2(2F)2G102
189	-	142277.7	-	-	-0.655	2(2G)2F106	-0.389	2(2G)2F107	0.268	2(2D)2F116	-0.251	2(2G)2G 95
190	-	145354.8	-	-	0.994	4(1F)2F214	-0.051	4(3F)4D186	-0.038	4(3F)2G193	-0.035	4(3F)4F178
191	-	145435.6	-	-	-0.995	4(1F)2G201	-0.044	4(3F)4H164	0.040	4(3F)4G170	0.040	4(3F)2F206
192	-	146181.9	-	-	-0.722	3(1G)2F151	-0.541	3(1G)2F152	0.238	3(1G)2G144	0.174	3(1G)2G145
193	-	146507.5	-	-	0.735	3(1G)2G144	0.541	3(1G)2G145	0.238	3(1G)2F151	-0.182	2(2G)2G 95
194	-	151064.3	-	-	-0.808	2(2D)2F117	0.455	2(2D)2F116	0.215	2(2G)2F106	0.181	2(2G)2F109
195	-	151306.6	-	-	0.384	4(3P)2G196	-0.374	4(3P)4D189	-0.363	4(3P)4F181	-0.356	4(3P)4G173
196	-	151678.4	-	-	-0.516	4(3P)4D189	0.451	4(3P)4G173	-0.417	4(3P)4D190	0.366	4(3P)4G174
197	-	151708.6	-	-	-0.512	4(3P)2G196	-0.416	4(3P)2G197	-0.323	4(3P)4G173	-0.308	4(3P)2F209
198	-	151983.9	-	-	0.835	4(3F)4D186	0.448	4(3F)4D187	-0.171	4(3F)4F178	0.105	4(3F)4G170
199	-	152069.9	-	-	-0.810	4(3F)4F178	-0.432	4(3F)4F179	0.198	4(3F)2G193	-0.161	4(3F)4D186
200	-	152116.0	-	-	-0.752	4(3F)2F206	-0.406	4(3F)2F207	-0.347	4(3F)4H164	0.211	4(3F)4G170
201	-	152123.8	-	-	0.767	4(3F)4H164	0.403	4(3F)4H165	0.271	4(3F)4G170	-0.237	4(3F)2F206
202	-	152226.8	-	-	-0.656	4(3F)2G193	0.489	4(3F)4G170	-0.349	4(3F)2G194	0.259	4(3F)4G171
203	-	152263.0	-	-	-0.564	4(3F)4G170	-0.424	4(3F)2G193	-0.316	4(3F)2F206	-0.302	4(3F)4G171
204	-	152695.6	-	-	0.587	4(3P)4F181	0.487	4(3P)4F182	-0.343	4(3P)4D189	-0.281	4(3P)4D190
205	-	152720.9	-	-	-0.588	4(3P)2F209	-0.487	4(3P)2F210	0.308	4(3P)2G196	0.275	4(3P)4G173
206	-	152838.8	-	-	0.961	2(2P)4D 90	0.213	2(2D)4D 87	0.094	2(2F)4D 86	-0.090	2(2D)4D 89
207	-	158855.7	-	-	0.840	2(2G)2G 96	-0.497	2(2G)2G 95	0.111	2(2G)2F107	-0.073	3(1G)2G144
208	-	159140.3	-	-	0.818	2(2G)2F107	-0.450	2(2G)2F106	0.160	3(1D)2F155	0.148	2(2D)2F115
209	-	159191.6	-	-	0.800	4(1G)2F212	0.594	4(1G)2F213	-0.055	4(1G)2G199	-0.041	4(1G)2G200
210	-	159214.2	-	-	-0.801	4(1G)2G199	-0.593	4(1G)2G200	-0.055	4(1G)2F212	-0.041	4(1G)2F213
211	-	160108.1	-	-	-0.836	2(2D)4F 76	0.475	2(2D)4F 78	0.190	2(2G)4F 72	0.150	2(2D)4D 87
212	-	161660.9	-	-	-0.830	2(2D)4D 87	0.464	2(2D)4D 89	0.240	2(2P)4D 90	-0.150	2(2D)4F 76
213	-	164994.1	-	-	0.859	3(1D)2F155	0.469	3(1D)2F154	-0.163	2(2G)2F107	-0.069	2(2D)2F115
214	-	165107.1	-	-	0.742	2(2D)2F114	-0.420	2(2D)2F118	0.418	2(2D)2F115	-0.235	2(2D)2F119
215	-	177589.8	-	-	-0.879	4(1D)2G203	-0.475	4(1D)2G202				
216	-	177640.9	-	-	-0.879	4(1D)2F216	-0.475	4(1D)2F215				
217	-	181620.0	-	-	0.741	2(2D)2F115	-0.421	2(2D)2F114	-0.419	2(2D)2F119	0.239	2(2D)2F118
218	-	198089.7	-	-	-0.876	4(1S)2F217	-0.482	4(1S)2F218				

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D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS
1	38458.981	38498.4	4P (5D)6D	-0.994 1(5D)6D 2 0.085 1(5D)6F 1 0.040 2(4D)6D 35 0.037 1(5D)4F 10
2	42114.818	42071.7	4P (5D)6F	0.982 1(5D)6F 1 0.150 1(5D)4F 10 0.090 1(5D)6D 2 0.055 2(4G)6F 31
3	44232.512	44318.9	4P (5D)4F	0.979 1(5D)4F 10 -0.155 1(5D)6F 1 -0.079 1(3G)4F 11 0.068 2(4G)4F 54
4	52965.820	52931.0	4SP (7S)8P	-1.000 2(6S)8P 27
5	60807.230	60811.9	4P (3H)4G	0.695 1(3H)4G 6
6	60989.444	61031.2	4P (3H)4H	-0.641 1(3H)4H 4 0.619 1(3H)4I 3 0.293 1(3H)4G 6 -0.219 1(3F)4G 8
7	61512.634	61527.3	4P (3H)4I	-0.734 1(3H)4I 3 -0.537 1(3H)4H 4 -0.277 1(3H)2G 20 -0.143 1(3G)2G 21
8	62158.110	621		

13	65556.280	65619.2	62.9	4P (3H)2H	-0.765	1(3H)2H 15	0.489	1(3G)2H 16	0.285	1(1I)2H 17	0.151	1(3F)2G 23
14	66012.750	65914.9	-97.8	4P (3G)4F	-0.699	1(3G)4F 11	-0.615	1(3G)4G 7	-0.233	1(3D)4F 14	0.167	1(3H)4G 6
15	66589.008	66523.1	-65.9	4P (3G)4H	-0.907	1(3G)4H 5	-0.310	1(3H)4H 4	-0.172	1(3H)2H 15	-0.104	1(3F)4G 9
16	68000.788	68074.9	74.1	4P (3G)2H	-0.773	1(3G)2H 16	-0.539	1(3H)2H 15	0.167	1(3G)4H 5	-0.134	1(3F)2G 23
17	70314.604	70315.3	0.7	4P (3G)2G	-0.880	1(3G)2G 21	0.412	1(3H)2G 20	0.123	1(3H)2H 15	-0.117	1(1F)2G 26
18	72130.390	71514.0	-616.4	4P (1G)2H	0.735	1(1G)2H 19	-0.511	1(1G)2H 18	-0.343	1(1I)2H 17	0.169	1(3G)2H 16
19	72650.658	72403.2	-247.4	4P (3D)4F	0.876	1(3D)4F 14	-0.282	1(3G)4F 11	-0.260	1(1G)2G 25	0.182	1(1G)2G 24
20	73091.590	72537.8	-553.8	4P (1G)2G	0.712	1(1G)2G 25	-0.495	1(1G)2G 24	0.318	1(3D)4F 14	0.219	1(3H)2G 20
21	73751.282	73788.0	36.8	4P (1I)2H	0.862	1(1I)2H 17	-0.274	1(1G)2H 18	-0.233	1(3G)2H 16	0.212	1(3H)2H 15
22	83871.184	83952.4	81.2	4P (1F)2G	-0.970	1(1F)2G 26	0.105	1(1G)2G 25	0.093	1(3F)2G 22	0.092	1(3G)2G 21
23	-	85096.3	-	-	-0.965	2(4G)6G 29	0.218	2(4G)6H 28	0.130	2(4F)6G 30	0.056	2(4G)6F 31
24	-	86259.5	-	-	0.974	2(4G)6H 28	0.217	2(4G)6G 29	0.032	2(2F)4G 52	-	-
25	87471.765	87396.2	-75.5	4SP (5G)6F	0.843	2(4G)6F 31	0.380	3(5D)6F 88	-0.249	2(4D)6F 33	0.177	2(4F)6F 32
26	88614.520	88493.3	-121.2	4SP (5P)6D	0.732	3(5D)6D 89	0.505	2(4F)6D 36	-0.378	2(4D)6D 35	0.214	2(4G)6F 31
27	88723.400	88806.8	83.4	5P (5D)6D	-0.745	2(4P)6D 36	0.621	3(5D)6D 89	0.146	2(4D)6D 35	-0.131	3(5D)6F 88
28	90042.779	89835.9	-206.9	4P (3F)4G	0.866	1(3F)4G 8	0.430	1(3F)4G 9	0.146	2(4G)4G 46	0.097	1(1F)2G 26
29	90386.528	89957.5	-429.0	5P (5D)4F	0.857	3(5D)4F 97	0.433	3(5D)6F 88	-0.206	2(4G)6F 31	0.137	2(4G)4F 54
30	90067.347	90358.7	291.3	5P (5D)6F	-0.804	3(5D)6F 88	0.481	3(5D)4F 97	0.314	2(4G)6F 31	0.077	2(4G)4F 54
31	92171.716	92099.4	-72.3	4P (3F)2G	0.749	1(3F)2G 22	0.397	1(3F)2G 23	-0.280	1(3F)4F 12	0.221	2(4G)4H 39
32	92116.780	92164.4	47.7	4SP (5G)4H	0.705	2(4G)4H 39	0.602	2(4G)4H 40	-0.231	1(3F)2G 22	-0.135	2(4D)6F 33
33	92300.277	92292.3	-8.0	4SP (5D)6F	-0.930	2(4D)6F 33	-0.259	2(4G)6F 31	0.138	2(4P)6D 36	0.120	2(4F)6F 32
34	92426.980	92591.8	164.8	4SP (5G)4F	-0.538	2(4G)4F 55	-0.528	2(4G)4F 54	0.449	1(3F)4F 12	0.300	1(3F)2G 22
35	93484.580	93423.3	-61.2	4P (3F)4F	-0.645	1(3F)4F 12	-0.427	2(4G)4F 54	-0.423	1(3F)4F 13	-0.340	2(4G)4F 55
36	94057.773	93847.4	-210.3	4SP (5D)6D	-0.882	2(4D)6D 35	-0.368	2(4P)6D 36	-0.231	3(5D)6D 89	-0.155	2(4F)6D 34
37	94148.510	94253.9	105.3	4SP (5G)4G	-0.819	2(4G)4G 45	-0.503	2(4G)4G 46	0.116	1(3F)4G 8	0.096	2(4F)4G 47
38	96239.200	96085.7	-153.5	4SP (3G)2H	0.985	2(4G)2H 67	0.095	2(2I)2H 68	-0.050	1(3H)2H 15	0.049	2(2H)2H 70
39	97851.350	97946.2	94.9	4P (1G)2H	0.776	1(1G)2H 18	0.587	1(1G)2H 19	-0.113	2(2I)2H 69	0.100	1(1I)2H 17
40	98596.650	98785.9	189.3	4SP (5D)4F	-0.742	2(4D)4F 58	-0.601	2(4D)4F 59	0.184	2(2G)4F 61	0.101	2(4F)4F 56
41	99653.220	99657.0	3.8	4SP (3G)2G	-0.690	1(1G)2G 24	0.486	2(4G)2G 76	-0.477	1(1G)2G 25	0.085	2(2H)2G 79
42	99757.120	99980.9	223.8	4P (1G)2G	-0.838	2(4G)2G 76	-0.388	1(1G)2G 24	-0.270	1(1G)2G 25	0.127	1(3F)2G 22
43	102851.360	102843.1	-8.3	4F (5D)4[5]	0.586	4(5D)6F116	-0.555	4(5D)6G115	0.384	4(5D)4F136	-0.331	4(5D)4G128
44	102882.370	102877.2	-5.1	4F (5D)4[4]	0.586	4(5D)4F136	-0.533	4(5D)4G128	-0.443	4(5D)6F116	0.371	4(5D)6D117
45	102951.500	102991.0	39.5	4SP (3I)4I	0.968	2(2I)4I 37	-0.176	2(2H)4I 38	-0.100	2(2I)4H 41	0.087	3(3H)4I 90
46	103326.410	103327.5	1.1	4F (5D)3[4]	0.651	4(5D)6G115	-0.467	4(5D)6D117	0.386	4(5D)4F136	-0.359	4(5D)6H114
47	103352.680	103355.4	2.7	4F (5D)3[5]	0.594	4(5D)4G128	0.511	4(5D)4F136	-0.415	4(5D)4H122	0.399	4(5D)6D117
48	103680.640	103690.3	9.7	4F (5D)2[4]	-0.585	4(5D)6D117	-0.536	4(5D)6F116	-0.525	4(5D)4H122	-0.278	4(5D)6G115
49	103701.720	103699.7	-2.0	4F (5D)2[5]	0.693	4(5D)6H114	0.427	4(5D)4G128	0.406	4(5D)4H122	0.271	4(5D)4F136
50	103873.990	103885.0	11.0	4F (5D)1[4]	-0.596	4(5D)4H122	0.587	4(5D)6H114	0.356	4(5D)6G115	-0.260	4(5D)4G128
51	104937.800	104883.1	-54.7	4SP (3I)4H	0.916	2(2I)4H 41	-0.211	2(4G)4H 39	0.157	2(2G)4H 44	-0.153	2(4F)6G 30
52	-	105119.0	-	-	-0.847	2(2D)4F 66	0.357	2(2D)4F 66	0.219	2(2D)4F 62	0.208	2(2D)4F 64
53	-	105386.3	-	-	-0.555	2(2D)4F 66	-0.479	2(2F)4F 62	-0.463	2(4F)6G 30	-0.319	2(2D)4F 64
54	-	105943.2	-	-	0.895	2(4F)6F 32	-0.339	2(4F)6F 32	0.152	2(4F)6F 33	-0.129	2(4G)6F 31
55	-	107044.4	-	-	-0.911	2(4F)6D 34	-0.330	2(4F)6F 32	0.198	2(4D)6D 35	0.072	2(2G)4F 61
56	107006.350	107120.9	114.5	4SP (3I)2H	0.743	2(2I)2H 68	0.512	2(2I)2H 69	0.177	2(2H)2H 70	-0.176	2(2G)2H 75
57	-	107386.6	-	-	-0.659	2(2F)4G 52	-0.615	2(2F)4F 62	0.214	2(4G)4F 54	0.164	2(2D)4F 66
58	-107964.700	107714.6	-	21ODD	-0.590	2(2F)4G 52	-0.447	2(2D)4F 66	0.411	2(2F)4F 62	-0.238	2(2D)4F 64
59	108570.560	108733.6	163.0	4SP (3G)4G	-0.589	3(3H)4G 93	0.394	2(4G)4G 46	0.356	3(3H)4H 91	-0.311	2(4G)4G 45
60	108868.980	108865.1	-3.8	4SP (3G)4H	-0.693	3(3H)4H 91	-0.416	2(4G)4H 40	0.371	2(4G)4H 39	-0.238	3(3H)4G 93
61	-	109382.7	-	-	-0.624	2(2H)4H 42	0.544	2(2H)4H 44	-0.325	2(4G)4H 40	0.313	2(4G)4H 39
62	-	109515.6	-	-	0.569	3(3H)4G 93	0.476	3(3F)4G 96	0.374	2(2H)4G 49	-0.297	3(3H)4I 90
63	-	109675.5	-	-	-0.922	3(3H)4I 90	-0.177	3(3H)4G 93	-0.143	3(3F)4G 96	-0.143	2(2H)4G 49
64	-	110018.0	-	-	0.617	3(3F)4F100	-0.456	3(3H)2G107	-0.339	3(3F)4F 99	0.268	2(4G)4F 54
65	-	110059.4	-	-	-0.772	3(3H)2G107	-0.362	3(3F)4F100	-0.231	2(2F)2G 84	0.201	3(3F)4F 99
66	-	110342.3	-	-	0.598	2(2F)2G 84	0.433	2(2F)2G 85	0.302	2(2H)2G 78	0.232	2(2H)2G 79
67	-	110890.9	-	-	0.934	3(3H)2H102	-0.127	3(3F)2G110	0.126	2(2I)2H 69	-0.101	3(3F)4F100
68	-	111019.0	-	-	-0.582	2(4F)4G 47	-0.482	2(4F)4G 48	-0.294	2(4G)4G 46	0.272	2(2H)4G 49
69	-	111178.7	-	-	0.762	3(3F)2G110	-0.417	3(3F)2G109	0.244	3(3H)2G107	0.166	3(3H)2H102
70	-	111297.8	-	-	0.912	2(2H)4I 38	-0.182	3(3H)4H 91	0.171	2(2I)4I 37	0.160	2(4G)4H 40
71	-	111699.7	-	-	-0.522	3(3F)4G 96	0.357	2(2G)4G 51	0.335	2(2H)4G 49	0.279	3(3F)4G 95
72	-	111844.5	-	-	0.434	3(3H)4H 91	-0.416	2(4G)4H 40	-0.359	2(2G)4H 44	0.297	2(4G)4H 39
73	-	112141.6	-	-	-0.337	3(3G)4F 98	-0.329	3(3G)4G 94	0.305	2(4G)4F 55	0.303	3(3F)4G 96
74	-	112263.8	-	-	0.429	2(2G)4G 51	-0.359	3(3G)4G 94	-0.355	2(2G)4F 61	-0.284	3(3F)4F100
75	-	112634.1	-	-	-0.620	2(2G)4F 61	0.411	2(4G)4F 55	-0.336	2(4G)4F 54	-0.287	2(4D)4F 58
76	-	113267.8	-	-	0.620	2(4F)4F 56	0.480	2(4F)4F 57	-0.378	3(3G)4F 98	0.220	2(2F)4F 63
77	-	113818.7	-	-	0.567	3(3G)4F 98	-0.314	2(2G)2G 82	-0.275	2(2H)2G 78	0.261	2(2F)2G 84
78	-	113991.4	-	-	0.801	3(3G)4H 92	0.396	3(3G)2H103	0.210	3(3G)4F 98	0.153	2(2G)4H 44
79	-	114152.7	-	-	-0.400	3(3G)4F 98	-0.310	2(2G)2G 82	0.310	3(3G)2G108	-0.292	2(2H)2G 78
80	-	114330.4	-	-	-0.817	3(3G)2H103	0.330	3(3G)4H 92	0.239	2(2G)4H 44	0.206	2(2H)4H 42
81	-	114624.5	-	-	-0.641	3(3G)2G108	-0.404	2(2G)4H 44	-0.381	2(2G)4H 42	0.257	3(3G)4H 92
82	-	114709.3	-	-	-0.502	3(3G)2G108	0.486	2(2H)4H 42	0.456	2(2G)4H 44	-0.229	2(4F)2G 77
83	-	115118.0	-	-	-0.719	3(3G)4G 94	0.369	2(4G)4G 46	-0.237	2(2H)4G 49	-0.233	2(2G)4G 51
84	-	115368.6	-	-	0.764	2(4F)2G 77	-0.291	3(3G)2G108	-0.217	2(2G)4G 51	-0.212	2(2G)2H 74
85	-	115955.4	-	-	-0.560	2(2G)4G 51	0.379	2(2F)4G 53	-0.337	2(4F)2G 77	0.318	2(2H)4G 49
86	-	116662.2	-	-	-0.596	2(2G)2H 74	0.481	2(2H)2H 70	-0.321	2(2I)2H 68	-0.246	2(2G)2H 75
87	-	116756.3	-	-	0.805	2(2F)4F 63	-0.265	2(4D)4F 59	0.249	3(3D)4F101	0.202	2(4G)4F 55
88	-	118161.6	-	-	0.454	2(2F)2G 86	-0.376	2(2G)2G 82	0.316	2(2F)2G 87	0.283	2(2F)4G 53
89	-	118225.7	-	-	0.629	2(2H)2H 70	0.516	2(2G)2H 74	0.368	2(2H)2H 71	0.320	2(2G)2H 75
90	-	118391.7	-	-	-0.474	2(4D)4F 59	-0.343	2(4G)4F 61	0.329	2(4D)4F 58	-0.293	2(2F)2G 86
91	-	118638.7	-	-	0.733	2(2F)4G 53	-0.479	2(2H)4G 49	0.189	2(2G)4G 51	0.188	2(4D)4F 59
92	-	119421.5	-	-	0.778	3(1G)2H106	-0.576	3(1G)2H105	0.180	2(2H)4G 50	-0.072	3(3F)2G110
93	-	119691.7	-	-	0.762	3(1G)2G112	-0.555	3(1G)2G111	-0.188	2(2H)2G 78	0.137	2(2F)2G 84
94	-	120097.2	-	-	0.919	3(3D)4F101	0.227	2(4D)4F 59	-0.152	2(4D)4F 58	0.151	2(2G)4F 61

23	-	111577.2	-	-	0.731	2(2H)4I	12	-0.351	3(3H)4H	26	0.348	2(4G)4H	14	0.278	2(2G)4H	18
24	-	111959.8	-	-	0.641	2(2H)4I	12	-0.356	2(2G)4H	18	0.347	2(2H)4H	16	0.346	3(3H)4H	26
25	-	113701.8	-	-	0.967	3(3G)4H	27	0.174	2(2G)4H	18	-0.101	3(3H)4I	25	0.076	2(2H)4H	16
26	-	114642.1	-	-	0.586	2(2H)4H	16	0.577	2(2G)4H	18	-0.428	2(2H)2I	23	-0.262	2(2H)2I	24
27	-	115534.1	-	-	-0.726	2(2H)2I	23	-0.442	2(2H)2I	24	-0.394	2(2G)4H	18	-0.314	2(2H)4H	16
28	-	119362.6	-	-	-0.986	3(1I)2K	28	0.117	3(1I)2I	30	-0.086	2(2I)2K	19	0.063	2(2I)2K	20
29	-	119843.2	-	-	-0.951	3(1I)2I	30	-0.197	2(2I)2I	22	0.169	2(2I)2I	21	-0.118	3(1I)2K	28
30	-	122893.9	-	-	0.894	4(3H)4I	41	-0.425	4(3H)4I	36	0.117	4(3H)4K	34	0.049	4(1I)2I	55
31	-	122927.9	-	-	-0.730	4(3H)2I	51	-0.445	4(3H)4I	36	0.332	4(3H)4K	34	-0.282	4(3H)4H	41
32	-	123087.9	-	-	0.528	4(3H)4K	34	-0.519	4(3H)4L	33	0.494	4(3H)2K	46	0.335	4(3H)4I	36
33	-	123116.2	-	-	0.599	4(3H)4I	36	-0.552	4(3H)2I	51	-0.346	4(3H)4K	34	0.308	4(3H)4H	41
34	-	123210.6	-	-	-0.820	4(3H)4L	33	-0.409	4(3H)4K	34	-0.320	4(3H)2K	46	-0.144	4(3H)2I	51
35	-	123252.4	-	-	0.676	4(3H)2K	46	-0.529	4(3H)4K	34	-0.359	4(3H)4I	36	0.261	4(3H)2I	51
36	-	123832.3	-	-	-0.849	2(2I)2K	20	0.509	2(2I)2K	19	-0.102	3(1I)2K	28	-0.073	2(2H)2I	24
37	-	124099.1	-	-	0.802	4(3F)4H	44	-0.444	4(3F)4H	43	-0.236	4(3F)4I	39	-0.135	4(3H)2K	46
38	-	124136.1	-	-	0.723	4(3F)2I	54	0.455	4(3F)4I	39	-0.394	4(3F)2I	53	-0.248	4(3F)4I	38
39	-	124377.5	-	-	-0.696	4(3F)4I	39	0.445	4(3F)2I	54	0.368	4(3F)4I	38	-0.283	4(3F)4H	44
40	-	126227.7	-	-	0.859	2(2I)2I	22	-0.410	2(2I)2I	21	-0.253	3(1I)2I	30	-0.112	2(2H)2I	24
41	-	127032.7	-	-	0.844	4(3G)4H	42	-0.497	4(3G)4I	37	-0.115	4(3G)2I	52	-0.086	4(3H)4I	36
42	-	127042.8	-	-	0.821	4(3G)2I	52	0.377	4(3G)4I	37	0.353	4(3G)4H	42	-0.151	4(3G)4K	35
43	-	127425.9	-	-	0.741	4(3G)4I	37	-0.486	4(3G)2I	52	0.374	4(3G)4H	42	0.165	4(3G)2K	47
44	-	127436.4	-	-	0.756	4(3G)4K	35	0.581	4(3G)2K	47	0.209	4(3G)2I	52	0.129	4(3F)2I	54
45	-	127629.3	-	-	0.764	4(3G)2K	47	-0.598	4(3G)4K	35	-0.151	4(3G)4I	37	-0.114	4(3H)4I	39
46	-	132693.2	-	-	0.794	4(1G)2I	57	-0.584	4(1G)2I	56	-0.117	4(1I)2I	55	-0.074	4(3F)4H	44
47	-	132748.5	-	-	0.789	4(1G)2K	50	-0.585	4(1G)2K	49	-0.147	4(1I)2K	48	0.072	4(3H)4L	33
48	-	132758.3	-	-	0.841	2(2H)2I	24	-0.519	2(2H)2I	23	-0.078	2(2I)2I	21	-0.075	2(2I)2K	20
49	-	133043.5	-	-	-0.998	4(3D)4H	45	-0.033	4(1F)2I	58						
50	-	133088.7	-	-	0.989	4(1I)2I	55	0.089	4(1G)2I	57	-0.075	4(1G)2I	56	-0.074	4(1I)2K	48
51	-	133094.5	-	-	-0.985	4(1I)2K	48	-0.113	4(1G)2K	50	0.092	4(1G)2K	49	-0.074	4(1I)2I	55
52	-	136608.1	-	-	-0.992	2(2G)4H	17	-0.116	2(2I)4H	15						
53	-	145190.4	-	-	-0.995	4(1F)2I	58	0.066	4(3F)4I	38	-0.039	4(3F)2I	53	0.036	4(3F)4I	39
54	-	151942.4	-	-	-0.702	4(3F)4I	38	-0.527	4(3F)2I	53	-0.377	4(3F)4I	39	-0.288	4(3F)2I	54
55	-	151979.1	-	-	0.703	4(3F)2I	53	-0.529	4(3F)4I	38	0.375	4(3F)2I	54	-0.277	4(3F)4I	39
56	-	152170.1	-	-	-0.875	4(3F)4H	43	-0.479	4(3F)4H	44	0.040	4(1G)2I	56	-0.034	4(1F)2I	58
57	-	159146.0	-	-	-0.801	4(1G)2K	49	-0.597	4(1G)2K	50	-0.032	4(3F)2I	53			
58	-	159213.0	-	-	-0.803	4(1G)2I	56	-0.594	4(1G)2I	57	-0.037	4(3F)4H	43			

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D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS												
1	61347.614	61371.9	24.3	4P (3H)4I	0.998	1(3H)4I	1	0.052	1(1I)2K	2	0.040	2(2I)4I	5			
2	71432.680	71459.5	26.8	4P (1I)2K	0.998	1(1I)2K	2	-0.052	1(3H)4I	1	-0.044	2(2I)2K	8			
3	-	86637.2	-	-	-1.000	2(4G)6H	3	0.031	2(2H)4I	6						
4	102851.200	102755.4	-95.8	4SP(3I)4K	0.851	2(2I)4K	4	-0.508	2(2I)4I	5	0.116	2(2H)4I	6	-0.045	3(3H)4I	9
5	103040.320	103019.7	-20.6	4P(5D)4[7]	0.999	4(5D)6H	11	-0.032	4(3F)4I	18						
6	103232.100	103416.0	183.9	4SP(3I)4I	-0.843	2(2I)4I	5	-0.521	2(2I)4K	4	0.099	2(2H)4I	6	-0.084	3(3H)4I	9
7	106524.400	106432.3	-92.1	4SP(3I)2K	0.838	2(2I)2K	7	0.528	2(2I)2K	8	-0.120	2(2H)4I	6	-0.042	3(1I)2K	10
8	-	109443.7	-	-	-0.992	3(3H)4I	9	0.085	2(2I)4I	5	-0.072	2(2H)4I	6	-0.050	3(1I)2K	10
9	-	111973.6	-	-	-0.978	2(2H)4I	6	-0.151	2(2I)4I	5	-0.099	2(2I)2K	7	-0.061	2(2I)2K	8
10	-	119510.9	-	-	0.993	3(1I)2K	10	0.090	2(2I)2K	7	-0.063	2(2I)2K	8	-0.051	3(3H)4I	9
11	-	122878.6	-	-	-0.739	4(3H)2K	21	-0.502	4(3H)4K	13	0.351	4(3H)4L	12	0.266	4(3H)2L	19
12	-	122902.0	-	-	0.914	4(3H)4I	15	-0.299	4(3H)4K	13	0.254	4(3H)2K	21	-0.079	4(3H)2L	19
13	-	123053.6	-	-	0.711	4(3H)4L	12	0.534	4(3H)2L	19	0.386	4(3H)2K	21	0.221	4(3H)4K	13
14	-	123087.9	-	-	-0.638	4(3H)4K	13	-0.430	4(3H)2L	19	0.396	4(3H)2K	21	-0.367	4(3H)4I	15
15	-	123213.5	-	-	0.651	4(3H)2L	19	-0.506	4(3H)4L	12	-0.435	4(3H)4K	13	0.278	4(3H)2K	21
16	-	123916.2	-	-	0.843	2(2I)2K	8	-0.528	2(2I)2K	7	0.101	3(1I)2K	10			
17	-	124137.5	-	-	-0.854	4(3F)4I	18	0.466	4(3F)4I	17	0.125	4(3G)4K	14	0.118	4(3H)2L	19
18	-	127027.7	-	-	-0.967	4(3G)4I	16	0.203	4(3G)4K	14	0.108	4(3H)4K	13	-0.077	4(3G)2K	22
19	-	127049.7	-	-	-0.839	4(3G)2K	22	-0.527	4(3G)4K	14	0.097	4(3H)4L	12	0.077	4(3H)2L	19
20	-	127439.2	-	-	-0.805	4(3G)4K	14	0.517	4(3G)2K	22	-0.214	4(3G)4I	16	-0.155	4(3F)4I	18
21	-	132751.6	-	-	0.789	4(1G)2K	25	-0.585	4(1G)2K	24	-0.148	4(1I)2K	23	-0.079	4(3F)4I	18
22	-	133025.4	-	-	0.998	4(1I)2L	20	-0.042	4(3H)2K	21						
23	-	133096.2	-	-	0.987	4(1I)2K	23	0.114	4(1G)2K	25	-0.093	4(1G)2K	24	-0.047	4(3H)4I	15
24	-	151929.9	-	-	0.878	4(3F)4I	17	0.475	4(3F)4I	18	-0.042	4(1G)2K	24			
25	-	159149.2	-	-	-0.801	4(1G)2K	24	-0.597	4(1G)2K	25	-0.038	4(3F)4I	17	-0.031	4(3F)4I	18

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D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS												
1	-	103179.9	-	-	1.000	2(2I)4K	1									
2	-	122815.6	-	-	0.834	4(3H)2L	6	0.549	4(3H)4L	2	0.052	4(1I)2M	5			
3	-	122881.2	-	-	-0.895	4(3H)4K	3	0.361	4(3H)4L	2	-0.252	4(3H)2L	6	0.056	4(3G)4K	4
4	-	123056.8	-	-	0.746	4(3H)4L	2	-0.483	4(3H)2L	6	0.444	4(3H)4K	3	0.110	4(3G)4K	4
5	-	127052.8	-	-	0.992	4(3G)4K	4	-0.104	4(3H)4L	2	0.067	4(3H)2L	6			
6	-	132900.0	-	-	0.999	4(1I)2M	5	-0.043	4(3H)2L	6						
7	-	133028.0	-	-	-0.999	4(1I)2L	7	0.050	4(3H)4K	3						

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D6 4P + D5 4S4P + D6 5P + D6 4F
1 2 3 4

OBSERVED ENERGY	EIGENVALUE	E-O	OBSERVED LABEL	PRINCIPAL EIGENVECTOR COMPONENTS												
1	-	122818.8	-	-	0.999	4(3H)4L	1	0.052	4(1I)2M	2						
2	-	132903.2	-	-	0.999	4(1I)2M	2	-0.052	4(3H)4L	1						

Table 5. Transition integrals.

These are the transition integrals between the even and odd configurations computed with scaled Thomas–Fermi–Dirac wavefunctions. Refer to Kurucz (1973) for the definition of the integral and a description of the wave functions.

	1	2	3	4
	$d^6\ 4p$	$d^5\ 4s4p$	$d^6\ 5p$	$d^6\ 4f$
1 d^7	1.35766	0.00000	0.31047	-0.62290
2 $d^6\ 4s$	2.83484	1.09794	0.02568	0.00000
3 $d^5\ 4s^2$	0.00000	2.57820	0.00000	0.00000
4 $d^6\ 5s$	-1.96706	0.00000	6.47685	0.00000
5 $d^6\ 6s$	-0.54524	0.00000	-4.50327	0.00000
6 $d^6\ 4d$	-4.48957	0.00000	7.67470	10.60525
7 $d^6\ 5d$	-1.41681	0.00000	-6.79612	-10.68216
8 $d^5\ 4s5s$	0.00000	-1.38775	0.00000	0.00000
9 $d^5\ 4s4d$	0.00000	-3.78465	0.00000	0.00000
10 $d^5\ 4p^2$	-1.02594	-2.46905	0.00000	0.00000

Table 6. Partial sums for damping constants.

This table lists the sum of the A values for each level, contributions to the Stark and van der Waals damping constants, and f sums from the complete transition array. These sums generally are not directly usable, because transitions to other configurations must be added. However, since these configurations include all the low-lying levels of the atom, a number of the A sums are complete and can be used to compute radiative lifetimes.

For the treatment of Stark broadening, we follow Hunger (1960). The perturbation on level k is

$$\Delta E = \frac{-e^4}{r^4} \frac{1}{3} \frac{3\hbar^2}{2m} \sum_{k'} \frac{f_{kk'}}{(E_k - E_{k'})^2},$$

where $f_{kk'} = gf/g_k$ for $E_k < E_{k'}$, or $f_{kk'} = -gf/g_{k'}$ for $E_{k'} > E_k$. The constant C_{Stark} is defined such that

$$\Delta\omega = \frac{2\pi \Delta E}{h} = \frac{2\pi C_{\text{Stark}}}{r^4},$$

so that

$$\begin{aligned} C_{\text{Stark}} &= \frac{-e^4}{8\pi^2 h m} \sum_{k'} \frac{f_{kk'}}{\nu^2} \\ &= -1.11336\text{E}14 \sum_{k'} \frac{f_{kk'}}{\nu^2} \\ &= -1.23878\text{E}-21 \sum_{k'} f_{kk'} \lambda^2, \end{aligned}$$

where λ is in nanometers.

Table 6. (Cont.)

We treat van der Waals broadening in similar fashion. From Margenau (1939), we have

$$\Delta E = \frac{3}{2} \frac{e^4}{r^6} \frac{\hbar^4}{m^2} \sum_{k'} \sum_{\ell'} \frac{f_{kk'} f_{\ell\ell'}}{(E_k - E_{k'}) (E_{\ell} - E_{\ell'}) (E_k - E_{k'} + E_{\ell} - E_{\ell'})} ,$$

where k and ℓ refer to different atoms. Let all the perturbing atoms be in the ground state ℓ and let $(E_{\ell'} - E_{\ell})$ be larger than $|(E_k - E_{k'})|$, so that $(E_k - E_{k'} + E_{\ell} - E_{\ell'}) \sim (E_{\ell} - E_{\ell'})$. If a perturber is hydrogen or helium and the perturbed atom is a metal atom with closely spaced energy levels, this is a reasonable approximation. Then, approximately,

$$\Delta E \sim \frac{3}{2} \frac{e^4}{r^6} \frac{\hbar^4}{m^2} \sum_{\ell'} \frac{f_{\ell\ell'}}{(E_{\ell} - E_{\ell'})^2} \sum_{k'} \frac{f_{kk'}}{E_k - E_{k'}} = \frac{3}{2} \frac{e^2}{r^6} \frac{\hbar^2}{m} \alpha \sum_{k'} \frac{f_{kk'}}{E_k - E_{k'}} ,$$

where α is the polarizability of the perturbing atom. The constant C_{Waals} is defined such that

$$\Delta\omega = \frac{2\pi \Delta E}{h} = \frac{2\pi C_{\text{Waals}}}{r^6} ,$$

so that

$$C_{\text{Waals}} = \frac{3e^2}{8\pi^2 m} \alpha \sum_{k'} \left| \frac{f_{kk'}}{\nu} \right| = 9.6223E6 \alpha \sum_{k'} \left| \frac{f_{kk'}}{\nu} \right| .$$

In computing Table 7, we assumed that the perturber was hydrogen, for which $\alpha = 6.70E-25 \text{ cm}^3$.

The f sum for each level $\sum_{k'} f_{kk'}$, where $f_{kk'}$ is as defined above, is provided for comparison with sum rules.

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LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F		
1	977.053	0.00E+00	-7.79E-17	6.19E-33	1.470	98	-152044.672	1.18E+09	1.87E-17	1.87E-33	-0.508
2	8846.768	0.00E+00	-8.35E-17	6.19E-33	1.456	99	-152313.375	2.38E+08	6.15E-16	1.34E-32	-0.873
3	13904.824	0.00E+00	-2.25E-17	2.19E-33	0.685	100	-152686.703	1.86E+09	3.88E-17	3.08E-33	-0.730
4	18886.779	0.00E+00	-2.11E-17	2.17E-33	0.667	101	-153189.172	1.88E+09	3.43E-17	3.08E-33	-0.788
5	22409.852	0.00E+00	-7.82E-17	6.15E-33	1.447	102	-153529.609	1.95E+09	3.39E-17	3.08E-33	-0.793
6	26932.748	0.00E+00	-8.15E-17	6.16E-33	1.441	103	-153818.406	5.27E+08	1.52E-17	1.26E-33	-0.290
7	31368.449	0.00E+00	-7.92E-17	6.19E-33	1.448	104	-154233.094	6.12E+08	1.39E-17	1.26E-33	-0.312
8	37227.324	0.00E+00	-8.21E-17	6.19E-33	1.408	105	-154269.313	1.32E+09	3.65E-17	2.86E-33	-0.639
9	49100.977	1.14E+02	-7.77E-17	6.19E-33	1.451	106	-154405.109	6.91E+08	2.46E-17	1.87E-33	-0.407
10	54063.461	1.08E+01	-8.18E-17	6.19E-33	1.441	107	-154874.109	7.17E+08	2.47E-17	1.87E-33	-0.412
11	57578.484	1.55E+04	-9.50E-17	6.67E-33	2.257	108	-155372.734	1.69E+09	3.54E-17	2.95E-33	-0.714
12	60384.371	1.22E+05	-9.77E-17	8.68E-33	2.273	109	-155615.781	1.26E+09	4.05E-17	2.94E-33	-0.621
13	78843.992	3.92E+08	-1.57E-15	2.99E-32	1.031	110	-156255.969	5.28E+08	1.44E-17	1.26E-33	-0.298
14	80346.016	3.09E+08	-1.42E-15	2.99E-32	1.007	111	-157119.063	5.35E+08	1.50E-17	1.26E-33	-0.292
15	83558.539	6.67E+08	-1.13E-15	2.50E-32	1.064	112	-157851.359	4.05E+08	1.61E-15	2.12E-32	-1.039
16	84131.563	6.62E+08	-1.17E-15	2.50E-32	1.015	113	-157936.016	1.75E+09	3.26E-17	2.97E-33	-0.762
17	85172.813	4.73E+08	-1.15E-15	2.50E-32	1.019	114	-157950.328	3.88E+08	1.62E-15	2.12E-32	-1.026
18	-86875.039	2.67E+05	-8.73E-17	8.68E-33	2.274	115	-158445.016	4.24E+08	1.52E-15	2.12E-32	-1.081
19	88189.031	5.55E+08	-2.02E-15	2.50E-32	0.718	116	-158711.156	5.48E+08	1.41E-17	1.26E-33	-0.302
20	-97245.461	1.57E+05	-7.90E-17	6.20E-33	1.408	117	-159077.797	4.44E+08	1.38E-15	2.12E-32	-1.153
21	-99196.602	3.79E+08	-1.35E-15	2.99E-32	1.014	118	-159345.378	1.86E+09	3.16E-17	2.92E-33	-0.756
22	-100082.125	3.39E+08	-1.42E-15	2.99E-32	1.011	119	-159541.575	1.05E+09	2.06E-17	1.87E-33	-0.474
23	-102666.695	2.20E+08	6.27E-16	1.34E-32	-0.815	120	-159633.938	4.38E+08	1.39E-15	2.12E-32	-1.142
24	-102696.469	6.26E+08	-1.19E-15	2.50E-32	1.034	121	-160062.844	4.90E+08	1.29E-15	2.12E-32	-1.214
25	-103265.695	1.93E+08	6.24E-16	1.34E-32	-0.785	122	-160622.391	1.85E+09	2.94E-17	2.78E-33	-0.727
26	-103563.633	5.72E+08	-1.19E-15	2.50E-32	1.040	123	-160893.672	1.10E+09	1.99E-17	1.87E-33	-0.486
27	-104438.484	2.78E+08	1.05E-14	2.12E-32	-0.548	124	-161108.406	1.34E+09	3.46E-17	2.84E-33	-0.648
28	-104548.914	4.99E+08	-1.06E-15	2.50E-32	1.044	125	-161272.188	2.04E+09	3.01E-17	2.81E-33	-0.748
29	104757.109	2.80E+08	8.11E-15	2.12E-32	-0.569	126	-161286.922	1.18E+09	1.90E-17	1.87E-33	-0.505
30	105230.289	2.24E+08	5.70E-15	2.12E-32	-0.569	127	-161554.750	1.44E+09	3.51E-17	2.84E-33	-0.657
31	-105516.406	6.04E+08	-1.27E-15	2.50E-32	0.999	128	-161647.938	1.09E+09	1.99E-17	1.87E-33	-0.485
32	-106576.117	6.30E+08	-1.51E-15	2.50E-32	0.896	129	-162359.422	1.57E+09	3.38E-17	2.88E-33	-0.699
33	-107027.703	2.59E+08	2.79E-15	2.12E-32	-0.734	130	-162489.078	1.10E+09	1.90E-17	1.87E-33	-0.497
34	-108222.922	6.00E+08	-1.82E-15	2.50E-32	0.779	131	-163195.109	1.18E+09	1.88E-17	1.87E-33	-0.507
35	-108705.898	3.95E+08	-1.42E-15	2.99E-32	0.953	132	-163225.875	2.33E+09	3.23E-17	3.10E-33	-0.838
36	-109681.500	6.15E+08	-1.58E-15	2.50E-32	0.892	133	-164036.563	1.09E+09	2.01E-17	1.87E-33	-0.483
37	-111718.992	3.60E+08	-1.81E-15	2.99E-32	0.989	134	-164517.906	1.18E+09	1.87E-17	1.87E-33	-0.508
38	-113932.875	5.78E+08	2.64E-17	1.87E-33	-0.382	135	-164610.953	2.12E+09	3.19E-17	2.97E-33	-0.790
39	-116294.813	6.96E+08	-1.84E-15	2.50E-32	0.720	136	-164675.094	1.08E+09	2.03E-17	1.87E-33	-0.483
40	-117053.281	6.26E+08	-1.85E-15	2.50E-32	0.736	137	-164918.109	1.20E+09	1.88E-17	1.87E-33	-0.509
41	-117122.328	6.28E+08	-1.94E-15	2.50E-32	0.692	138	-165173.625	1.15E+09	1.90E-17	1.87E-33	-0.503
42	-117550.859	1.57E+06	-1.07E-16	8.68E-33	2.267	139	-165698.703	9.24E+08	2.22E-17	1.87E-33	-0.450
43	-117734.922	7.47E+08	9.84E-15	2.50E-32	0.544	140	-165876.828	1.01E+09	2.06E-17	1.87E-33	-0.475
44	-117828.211	7.67E+08	4.24E-17	2.85E-33	-0.546	141	-166259.906	1.10E+09	1.99E-17	1.87E-33	-0.486
45	-120960.430	6.61E+08	-1.35E-15	2.50E-32	0.877	142	-167329.648	8.13E+08	2.30E-17	1.87E-33	-0.433
46	-121830.008	1.67E+09	3.58E-17	3.09E-33	-0.780	143	-167507.571	8.69E+08	2.25E-17	1.87E-33	-0.443
47	-122726.789	2.13E+08	6.41E-16	1.34E-32	-0.805	144	-167661.047	1.90E+09	4.03E-17	3.07E-33	-0.696
48	-123250.867	2.06E+08	6.39E-16	1.34E-32	-0.796	145	-167856.641	1.85E+09	3.88E-17	3.06E-33	-0.711
49	-123318.008	2.75E+08	8.21E-15	2.12E-32	-0.562	146	-168028.016	2.07E+09	3.35E-17	3.04E-33	-0.786
50	-123450.617	7.26E+08	-2.54E-15	2.50E-32	0.573	147	-168210.875	9.95E+08	3.09E-16	2.50E-32	-0.056
51	-123940.766	2.46E+08	8.34E-15	2.12E-32	-0.561	148	-168253.250	7.53E+08	2.33E-17	1.87E-33	-0.421
52	-124737.125	2.37E+08	1.02E-14	2.12E-32	-0.552	149	-168862.047	9.45E+08	3.23E-16	2.50E-32	-0.097
53	-125973.305	2.69E+08	6.05E-15	2.12E-32	-0.588	150	-169628.422	1.19E+09	1.92E-17	1.87E-33	-0.504
54	-126579.438	2.79E+08	4.39E-15	2.12E-32	-0.638	151	-169900.266	2.11E+09	4.02E-17	3.15E-33	-0.738
55	-127535.469	2.70E+08	2.87E-15	2.12E-32	-0.718	152	-170368.172	1.73E+09	4.12E-17	3.05E-33	-0.653
56	-128040.625	4.28E+08	-1.59E-15	2.99E-32	0.839	153	-170960.172	2.07E+09	3.09E-17	2.93E-33	-0.780
57	-129165.141	3.70E+08	-1.59E-15	2.99E-32	0.837	154	-171481.969	9.47E+08	2.03E-17	1.87E-33	-0.463
58	-129774.250	1.25E+09	1.89E-17	1.87E-33	-0.510	155	-171593.891	7.38E+08	2.17E-17	1.87E-33	-0.420
59	-129941.453	8.28E+08	-1.37E-15	2.50E-32	0.494	156	-172681.047	1.39E+09	3.70E-17	2.88E-33	-0.646
60	-129989.984	2.81E+08	3.87E-15	2.12E-32	-0.670	157	-173198.219	9.33E+08	2.13E-17	1.87E-33	-0.458
61	-130223.055	1.32E+09	1.80E-17	1.87E-33	-0.528	158	-173910.375	1.33E+09	1.84E-17	1.87E-33	-0.527
62	-132358.125	2.33E+08	6.12E-16	1.34E-32	-0.843	159	-174920.125	2.12E+09	3.14E-17	2.98E-33	-0.792
63	-135179.625	2.19E+08	6.37E-16	1.34E-32	-0.818	160	-175720.172	2.84E+08	2.04E-17	1.26E-33	-0.227
64	-136703.875	3.26E+08	2.48E-15	2.12E-32	-0.819	161	-176016.031	1.17E+09	1.88E-17	1.87E-33	-0.506
65	-136989.063	8.44E+08	-4.89E-15	2.50E-32	0.500	162	-176255.438	1.16E+09	1.89E-17	1.87E-33	-0.504
66	-137137.844	7.64E+08	-3.70E-15	2.50E-32	0.537	163	-176336.969	1.00E+09	2.21E-17	1.87E-33	-0.465
67	-137166.203	3.03E+08	2.21E-15	2.12E-32	-0.839	164	-176568.406	4.71E+08	-1.81E-15	2.99E-32	0.619
68	-137244.828	3.07E+08	2.06E-15	2.12E-32	-0.832	165	-176927.547	1.03E+09	2.06E-17	1.87E-33	-0.473
69	-137441.281	3.47E+08	2.09E-15	2.12E-32	-0.890	166	-177681.031	9.79E+08	2.15E-17	1.87E-33	-0.465
70	-137945.719	8.51E+08	-8.07E-16	2.50E-32	0.427	167	-178182.094	1.97E+09	3.94E-17	3.03E-33	-0.721
71	-139001.531	8.57E+08	6.21E-16	2.50E-32	0.297	168	-178478.375	1.25E+09	1.91E-17	1.87E-33	-0.507
72	-139627.813	8.71E+08	7.20E-14	2.50E-32	0.290	169	-178858.672	1.16E+09	1.97E-17	1.87E-33	-0.492
73	-140261.047	1.72E+09	2.96E-17	2.79E-33	-0.724	170	-179158.375	2.09E+09	3.64E-17	3.08E-33	-0.771
74	-140610.172	1.08E+09	2.45E-15	2.50E-32	0.097	171	-180387.516	5.54E+08	1.42E-17	1.26E-33	-0.303
75	-141534.141	2.94E+08	3.50E-15	2.12E-32	-0.697	172	-180591.375	1.22E+09	1.84E-17	1.87E-33	-0.514
76	-142759.875	3.24E+08	2.34E-15	2.12E-32	-0.826	173	-180670.234	4.95E+08	1.58E-17	1.26E-33	-0.282
77	-143015.328	2.85E+08	2.05E-17	1.26E-33	-0.227	174	-183046.078	1.81E+09	4.16E-17	3.11E-33	-0.681
78	-143197.172	1.48E+09	2.91E-17	2.72E-33	-0.693	175	-183566.734	2.20E+09	3.00E-17	2.92E-33	-0.791
79	-143905.313	4.96E+08	1.50E-17	1.26E-33	-0.290	176	-184046.141	9.17E+08	2.23E-17	1.87E-33	-0.447
80	-143952.500	1.06E+09	1.92E-17	1.87E-33	-0.492	177	-184767.828	2.15E+09	2.91E-17	2.85E-33	-0.777
81	-145459.703	1.07E+09	1.92E-17	1.87E-33	-0.492	178	-187242.734	1.17E+09	1.87E-17	1.87E-33	-0.507
82	-145693.047	1.69E+09	3.00E-17	2.81E-33	-0.721	179	-187974.625	1.20E+09	1.85E-17		

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
195	-206155.156	2.94E+08	2.01E-17	1.26E-33	-0.227	75	-119604.305	6.79E+08	-7.75E-15	2.50E-32	0.552
196	-210268.859	1.23E+09	1.85E-17	1.87E-33	-0.514	76	-121563.492	2.06E+08	6.19E-16	1.34E-32	-0.795
197	-210821.719	2.65E+09	4.16E-17	3.24E-33	-0.787	77	-121667.781	1.67E+09	3.60E-17	3.09E-33	-0.779
198	-210891.234	5.07E+08	1.55E-17	1.26E-33	-0.285	78	-122255.938	6.87E+08	-1.67E-13	2.50E-32	0.696
199	-211370.031	1.23E+09	1.84E-17	1.87E-33	-0.514	79	-122626.273	2.14E+08	6.37E-16	1.34E-32	-0.807
200	-211692.250	5.50E+08	1.45E-17	1.26E-33	-0.299	80	-123257.578	7.11E+08	-2.35E-15	2.50E-32	0.596
201	-212720.875	8.83E+08	2.20E-17	1.87E-33	-0.446	81	-123330.453	2.72E+08	8.19E-15	2.12E-32	-0.560
202	-214016.109	2.73E+09	3.23E-17	3.17E-33	-0.886	82	-123468.836	6.34E+08	1.41E-17	1.26E-33	-0.317
203	-214393.203	2.34E+09	2.89E-17	2.81E-33	-0.768	83	-123575.438	2.20E+08	6.35E-16	1.34E-32	-0.817
204	-215908.906	1.53E+09	3.69E-17	2.83E-33	-0.627	84	-123930.063	2.47E+08	7.86E-15	2.12E-32	-0.560
205	-217708.094	2.59E+09	2.81E-17	2.83E-33	-0.800	85	-124634.984	2.54E+08	1.06E-14	2.12E-32	-0.541
206	-217803.719	1.11E+09	1.90E-17	1.87E-33	-0.497	86	-124721.352	2.44E+08	9.60E-15	2.12E-32	-0.553
207	-218917.625	1.16E+09	1.91E-17	1.87E-33	-0.499	87	-125208.383	2.00E+06	-9.06E-17	8.67E-33	2.250
208	-219210.016	1.01E+09	2.08E-17	1.87E-33	-0.468	88	-125232.023	2.44E+08	6.20E-15	2.12E-32	-0.578
209	-220302.938	7.46E+08	2.38E-17	1.87E-33	-0.416	89	-125472.078	2.55E+08	6.43E-15	2.12E-32	-0.578
210	-221160.422	2.52E+09	3.35E-17	2.99E-33	-0.789	90	-125898.180	2.69E+08	5.98E-15	2.12E-32	-0.591
211	-221746.656	2.03E+09	3.88E-17	2.99E-33	-0.692	91	-126460.273	2.79E+08	4.41E-15	2.12E-32	-0.639
212	-224550.609	6.00E+08	2.50E-17	1.87E-33	-0.387	92	-126523.188	2.83E+08	3.71E-15	2.12E-32	-0.662
213	-226689.141	9.14E+08	2.18E-17	1.87E-33	-0.449	93	-127092.648	2.55E+08	3.25E-15	2.12E-32	-0.672
214	-228045.672	1.35E+09	1.82E-17	1.87E-33	-0.526	94	-127614.305	2.74E+08	2.16E-15	2.12E-32	-0.736
215	-229322.828	1.34E+09	3.36E-17	2.77E-33	-0.635	95	-128435.500	4.30E+08	-1.61E-15	2.99E-32	0.838
						96	-128563.836	4.25E+08	-1.75E-15	2.99E-32	0.845
						97	-129777.836	1.25E+09	1.89E-17	1.87E-33	-0.510
						98	-129917.898	2.83E+08	3.85E-15	2.12E-32	-0.672
						99	-130001.031	8.56E+08	-2.99E-15	2.50E-32	0.480
						100	-130051.766	3.70E+08	-1.63E-15	2.99E-32	0.836
						101	-130223.367	1.32E+09	1.80E-17	1.87E-33	-0.528
						102	-130788.313	8.08E+08	-3.83E-15	2.50E-32	0.429
						103	-130877.492	2.75E+08	2.60E-15	2.12E-32	-0.729
						104	-130965.227	3.19E+08	2.71E-15	2.12E-32	-0.793
						105	-132366.953	2.33E+08	6.12E-16	1.34E-32	-0.843
						106	-132728.906	2.11E+08	7.46E-16	1.34E-32	-0.818
						107	-134612.031	2.50E+08	4.74E-15	2.12E-32	-0.614
						108	-136603.594	3.22E+08	2.57E-15	2.12E-32	-0.803
						109	-136717.000	3.26E+08	2.49E-15	2.12E-32	-0.818
						110	-136836.172	3.36E+08	2.41E-15	2.12E-32	-0.838
						111	-136998.828	8.75E+08	-9.89E-15	2.50E-32	0.476
						112	-137100.703	7.41E+08	-2.87E-15	2.50E-32	0.541
						113	-137143.469	3.05E+08	2.14E-15	2.12E-32	-0.824
						114	-137272.922	9.38E+08	-7.21E-13	2.50E-32	0.418
						115	-137275.703	2.88E+08	4.81E-15	2.12E-32	-0.684
						116	-137494.094	3.50E+08	2.10E-15	2.12E-32	-0.893
						117	-137683.375	5.25E+08	1.43E-17	1.26E-33	-0.299
						118	-137867.469	8.43E+08	3.34E-14	2.50E-32	0.430
						119	-138504.141	2.24E+08	6.16E-16	1.34E-32	-0.828
						120	-138603.016	3.18E+08	2.01E-15	2.12E-32	-0.876
						121	-138914.125	8.77E+08	-1.51E-14	2.50E-32	0.283
						122	-139227.844	8.32E+08	-1.79E-14	2.50E-32	0.300
						123	-139455.047	8.33E+08	-7.64E-15	2.50E-32	0.279
						124	-140004.984	7.84E+08	5.76E-15	2.50E-32	0.290
						125	-140216.641	1.71E+09	2.96E-17	2.79E-33	-0.723
						126	-140528.422	1.07E+09	2.81E-15	2.50E-32	0.107
						127	-140642.219	5.24E+08	1.43E-17	1.26E-33	-0.299
						128	-141250.750	8.47E+08	1.12E-15	2.50E-32	0.245
						129	-141332.875	1.55E+09	2.99E-17	2.77E-33	-0.703
						130	-141966.641	1.78E+09	2.95E-17	2.84E-33	-0.748
						131	-142178.313	3.02E+08	2.97E-15	2.12E-32	-0.752
						132	-142675.891	3.20E+08	2.42E-15	2.12E-32	-0.817
						133	-142987.922	2.73E+08	2.07E-17	1.26E-33	-0.224
						134	-143270.172	1.51E+09	2.91E-17	2.73E-33	-0.697
						135	-143917.922	5.08E+08	1.47E-17	1.26E-33	-0.293
						136	-143953.734	1.06E+09	1.92E-17	1.87E-33	-0.492
						137	-144014.531	1.13E+09	1.88E-17	1.87E-33	-0.503
						138	-144877.047	1.21E+09	3.67E-17	2.86E-33	-0.640
						139	-145441.344	1.07E+09	1.92E-17	1.87E-33	-0.492
						140	-145760.328	1.68E+09	3.00E-17	2.80E-33	-0.719
						141	-146064.781	1.49E+09	2.99E-17	2.74E-33	-0.692
						142	-146323.813	2.60E+08	2.11E-17	1.26E-33	-0.219
						143	-146653.250	1.16E+09	1.86E-17	1.87E-33	-0.508
						144	-146852.188	1.13E+09	1.87E-17	1.87E-33	-0.503
						145	-146912.719	9.24E+08	4.75E-15	2.50E-32	0.095
						146	-147053.891	7.07E+08	2.76E-17	1.87E-33	-0.410
						147	-147272.172	1.31E+09	3.46E-17	2.83E-33	-0.659
						148	-147580.453	1.10E+09	1.89E-17	1.87E-33	-0.499
						149	-147643.547	1.36E+09	3.43E-17	2.85E-33	-0.672
						150	-148054.516	6.71E+08	2.49E-17	1.87E-33	-0.401
						151	-148998.766	1.89E+09	3.01E-17	2.88E-33	-0.757
						152	-149782.266	1.24E+09	4.17E-17	2.94E-33	-0.607
						153	-149868.922	9.60E+08	4.15E-17	2.85E-33	-0.562
						154	-149875.500	1.10E+09	1.91E-17	1.87E-33	-0.497
						155	-149935.250	9.82E+08	2.05E-17	1.87E-33	-0.472
						156	-149951.141	3.74E+08	1.94E-15	2.12E-32	-0.928
						157	-149992.719	9.14E+08	2.14E-17	1.87E-33	-0.457
						158	-150007.781	1.95E+09	2.93E-17	2.83E-33	-0.758
						159	-150388.172	3.66E+08	1.81E-15	2.12E-32	-0.951
						160	-150464.563	1.01E+09	2.00E-17	1.87E-33	-0.480
						161	-151059.797	7.08E+08	2.39E-17	1.87E-33	-0.413
						162	-151140.688	1.72E+09	3.58E-17	2.95E-33	-0.744
						163	-151252.859	6.65E+08	2.47E-17	1.87E-33	-0.401
						164	-151668.563	1.71E+09	3.61E-17	2.99E-33	-0.736
						165	-151898.469	1.71E+09	4.03E-17	2.96E-33	-0.654
						166	-152011.641	1.19E+09	1.86E-17	1.87E-33	-0.510
						167	-152064.672	2.57E+08	5.81E-16	1.34E-32	-0.892
						168	-152214.203	2.55E+08	5.39E-16	1.34E-32	-0.891
						169	-152324.297	1.92E+09	3.75E-17	3.09E-33	-0.743
						170	-152736.703	1.75E+09	3.71E-17	3.01E-33	-0.717
						171	-153117.922	6.28E+08	2.58E-17	1.87E-33	-0.391

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LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F		
172	-153173.391	2.37E+08	5.94E-16	1.34E-32	-0.871	269	-172338.734	2.06E+09	3.10E-17	2.94E-33	-0.780
173	-153420.484	1.89E+09	3.34E-17	3.05E-33	-0.787	270	-172709.438	1.05E+09	2.09E-17	1.87E-33	-0.478
174	-153694.984	1.88E+09	3.46E-17	3.09E-33	-0.787	271	-172805.453	1.48E+09	1.73E-17	2.91E-33	-0.663
175	-153735.438	5.28E+08	1.52E-17	1.26E-33	-0.291	272	-172886.891	1.04E+09	2.10E-17	1.87E-33	-0.475
176	-153769.891	7.04E+08	2.42E-17	1.87E-33	-0.411	273	-173474.906	9.79E+08	1.88E-17	1.87E-33	-0.467
177	-154107.922	6.10E+08	1.40E-17	1.26E-33	-0.312	274	-173596.469	1.83E+09	4.11E-17	3.11E-33	-0.724
178	-154302.609	1.54E+09	3.47E-17	2.88E-33	-0.681	275	-173800.109	5.54E+08	1.42E-17	1.26E-33	-0.303
179	-154491.203	6.92E+08	2.45E-17	1.87E-33	-0.407	276	-174215.719	8.76E+08	2.21E-17	1.87E-33	-0.445
180	-154805.719	7.07E+08	2.48E-17	1.87E-33	-0.409	277	-174907.563	1.79E+09	3.64E-17	3.03E-33	-0.736
181	-155380.953	1.53E+09	3.76E-17	2.97E-33	-0.685	278	-175072.703	8.84E+08	2.31E-17	1.87E-33	-0.444
182	-155400.938	4.38E+08	-1.73E-15	2.99E-32	0.735	279	-175203.078	2.14E+09	3.14E-17	2.98E-33	-0.795
183	-155665.484	1.30E+09	4.01E-17	2.94E-33	-0.628	280	-175384.531	1.18E+09	1.87E-17	1.87E-33	-0.508
184	-155886.906	1.29E+09	3.91E-17	2.87E-33	-0.609	281	-175846.672	1.15E+09	1.95E-17	1.87E-33	-0.500
185	-156291.203	5.28E+08	1.44E-17	1.26E-33	-0.298	282	-175992.859	1.11E+09	1.99E-17	1.87E-33	-0.489
186	-156489.422	1.61E+09	3.52E-17	3.00E-33	-0.736	283	-176091.547	2.28E+09	4.18E-17	3.22E-33	-0.769
187	-156955.000	1.45E+09	4.07E-17	3.01E-33	-0.653	284	-176140.703	1.14E+09	1.95E-17	1.87E-33	-0.497
188	-157116.047	5.33E+08	1.51E-17	1.26E-33	-0.292	285	-176293.625	1.17E+09	1.91E-17	1.87E-33	-0.504
189	-157119.000	1.30E+09	1.81E-17	1.87E-33	-0.524	286	-176759.047	1.10E+09	2.00E-17	1.87E-33	-0.485
190	-157443.953	6.05E+08	1.40E-17	1.26E-33	-0.310	287	-176897.313	1.04E+09	2.05E-17	1.87E-33	-0.474
191	-157516.109	1.72E+09	3.34E-17	2.97E-33	-0.750	288	-177195.859	1.35E+09	3.49E-17	2.89E-33	-0.663
192	-157851.875	4.18E+08	1.58E-15	2.12E-32	-1.056	289	-177503.109	9.12E+08	2.24E-17	1.87E-33	-0.451
193	-157916.938	3.82E+08	1.61E-15	2.12E-32	-1.026	290	-178146.297	1.11E+09	2.07E-17	1.87E-33	-0.483
194	-158052.750	4.43E+08	1.53E-15	2.12E-32	-1.088	291	-178346.047	1.91E+09	4.01E-17	3.01E-33	-0.700
195	-158063.188	1.05E+09	2.04E-17	1.87E-33	-0.476	292	-178449.172	8.90E+08	2.27E-17	1.87E-33	-0.442
196	-158397.672	4.20E+08	1.52E-15	2.12E-32	-1.080	293	-178792.531	1.16E+09	1.97E-17	1.87E-33	-0.492
197	-158473.328	5.43E+08	1.43E-17	1.26E-33	-0.301	294	-178867.828	2.77E+08	5.44E-16	1.34E-32	-0.932
198	-158476.797	1.40E+09	2.89E-17	2.69E-33	-0.677	295	-179381.469	2.17E+09	3.56E-17	3.09E-33	-0.785
199	-158776.766	2.87E+08	2.04E-17	1.26E-33	-0.226	296	-179610.516	1.03E+09	2.07E-17	1.87E-33	-0.473
200	-158956.641	4.45E+08	1.36E-15	2.12E-32	-1.157	297	-180397.031	5.54E+08	1.42E-17	1.26E-33	-0.303
201	-159207.766	4.31E+08	1.41E-15	2.12E-32	-1.147	298	-180479.906	1.98E+09	4.04E-17	3.09E-33	-0.714
202	-159294.047	4.38E+08	1.39E-15	2.12E-32	-1.156	299	-180596.406	1.22E+09	1.84E-17	1.87E-33	-0.513
203	-159321.297	1.86E+09	3.17E-17	2.92E-33	-0.756	300	-180624.844	2.32E+09	3.80E-17	3.17E-33	-0.788
204	-159513.109	1.06E+09	2.05E-17	1.87E-33	-0.475	301	-182320.453	2.83E+08	2.40E-17	1.26E-33	-0.226
205	-159620.438	5.02E+08	1.48E-17	1.26E-33	-0.289	302	-182488.078	1.90E+09	2.94E-17	2.79E-33	-0.737
206	-159797.984	4.21E+08	1.37E-15	2.12E-32	-1.150	303	-183633.609	2.19E+09	2.99E-17	2.92E-33	-0.790
207	-160009.297	4.84E+08	1.30E-15	2.12E-32	-1.207	304	-183813.500	9.05E+08	2.11E-17	1.87E-33	-0.447
208	-160156.344	1.31E+09	1.82E-17	1.87E-33	-0.526	305	-184029.891	9.28E+08	2.23E-17	1.87E-33	-0.448
209	-160536.531	1.78E+09	2.99E-17	2.82E-33	-0.735	306	-184239.594	9.32E+08	2.19E-17	1.87E-33	-0.453
210	-160565.719	4.55E+08	1.45E-15	2.12E-32	-1.225	307	-184685.656	2.14E+09	2.92E-17	2.85E-33	-0.777
211	-160695.891	1.75E+09	3.03E-17	2.80E-33	-0.719	308	-185887.125	2.06E+09	3.20E-17	2.94E-33	-0.768
212	-160775.438	1.12E+09	1.97E-17	1.87E-33	-0.490	309	-186510.359	1.11E+09	1.91E-17	1.87E-33	-0.497
213	-160796.078	1.11E+09	1.98E-17	1.87E-33	-0.488	310	-186948.594	1.19E+09	1.85E-17	1.87E-33	-0.510
214	-160914.094	3.07E+08	1.93E-17	1.26E-33	-0.235	311	-187251.078	1.16E+09	1.87E-17	1.87E-33	-0.506
215	-161095.125	1.53E+09	3.34E-17	2.84E-33	-0.676	312	-187277.813	4.95E+08	1.58E-17	1.26E-33	-0.282
216	-161238.125	1.97E+09	3.01E-17	2.82E-33	-0.740	313	-188024.250	1.20E+09	1.86E-17	1.87E-33	-0.510
217	-161354.859	1.21E+09	1.89E-17	1.87E-33	-0.508	314	-188216.922	5.78E+08	9.89E-16	2.12E-32	-1.453
218	-161649.094	1.43E+09	3.54E-17	2.84E-33	-0.656	315	-188295.750	6.31E+08	9.62E-16	2.12E-32	-1.494
219	-161728.516	1.08E+09	2.00E-17	1.87E-33	-0.483	316	-188393.484	9.82E+08	2.12E-17	1.87E-33	-0.463
220	-161878.125	1.42E+09	3.48E-17	2.86E-33	-0.673	317	-188772.094	2.23E+09	3.36E-17	2.96E-33	-0.771
221	-162422.125	2.13E+09	3.17E-17	2.99E-33	-0.797	318	-189113.328	8.24E+08	2.31E-17	1.87E-33	-0.434
222	-162490.781	1.10E+09	1.90E-17	1.87E-33	-0.497	319	-190421.984	1.74E+09	3.95E-17	3.01E-33	-0.684
223	-162590.297	1.04E+09	1.93E-17	1.87E-33	-0.488	320	-190453.484	1.24E+09	2.46E-16	2.50E-32	-0.330
224	-162725.656	1.12E+09	1.88E-17	1.87E-33	-0.501	321	-191073.344	8.47E+08	2.27E-17	1.87E-33	-0.437
225	-163026.188	2.27E+09	3.24E-17	3.09E-33	-0.828	322	-191542.078	2.10E+09	3.39E-17	2.95E-33	-0.748
226	-164089.297	1.08E+09	2.01E-17	1.87E-33	-0.483	323	-191613.547	1.82E+09	3.58E-17	2.93E-33	-0.699
227	-164194.984	2.03E+09	3.27E-17	2.97E-33	-0.772	324	-195038.750	9.34E+08	2.16E-17	1.87E-33	-0.454
228	-164226.672	1.13E+09	1.93E-17	1.87E-33	-0.500	325	-195105.438	1.15E+09	1.91E-17	1.87E-33	-0.500
229	-164381.719	1.86E+09	3.37E-17	2.94E-33	-0.738	326	-195829.953	9.11E+08	2.18E-17	1.87E-33	-0.449
230	-164457.844	1.11E+09	1.99E-17	1.87E-33	-0.487	327	-196360.094	1.21E+09	1.85E-17	1.87E-33	-0.512
231	-164486.594	1.14E+09	1.95E-17	1.87E-33	-0.495	328	-197457.484	1.47E+09	3.56E-17	2.86E-33	-0.652
232	-164522.203	1.13E+09	1.93E-17	1.87E-33	-0.497	329	-198831.875	2.03E+09	4.16E-17	3.10E-33	-0.710
233	-164578.344	1.20E+09	1.90E-17	1.87E-33	-0.506	330	-199540.484	8.20E+08	2.34E-17	1.87E-33	-0.428
234	-164710.125	1.16E+09	1.92E-17	1.87E-33	-0.501	331	-202942.641	9.60E+08	2.17E-17	1.87E-33	-0.456
235	-164791.000	1.22E+09	1.87E-17	1.87E-33	-0.511	332	-203745.438	1.70E+09	3.60E-17	2.85E-33	-0.661
236	-165091.203	1.09E+09	1.97E-17	1.87E-33	-0.490	333	-204231.891	5.61E+08	1.42E-17	1.26E-33	-0.303
237	-165100.734	1.75E+09	3.28E-17	2.91E-33	-0.740	334	-205001.844	2.05E+09	3.14E-17	2.94E-33	-0.783
238	-165311.953	1.12E+09	1.91E-17	1.87E-33	-0.500	335	-205336.781	2.14E+09	3.03E-17	2.84E-33	-0.749
239	-165537.547	4.98E+08	1.55E-17	1.26E-33	-0.285	336	-205508.203	2.26E+09	3.03E-17	2.86E-33	-0.764
240	-165740.891	8.75E+08	2.29E-17	1.87E-33	-0.440	337	-206135.266	2.91E+08	2.01E-17	1.26E-33	-0.227
241	-166054.172	1.04E+09	2.01E-17	1.87E-33	-0.481	338	-209056.453	2.00E+09	3.72E-17	2.92E-33	-0.688
242	-166066.313	4.36E+08	1.40E-15	2.12E-32	-1.149	339	-210293.484	1.23E+09	1.85E-17	1.87E-33	-0.513
243	-166160.063	1.12E+09	1.96E-17	1.87E-33	-0.490	340	-210583.313	7.68E+08	8.27E-16	2.12E-32	-1.681
244	-166536.484	1.08E+09	1.97E-17	1.87E-33	-0.489	341	-210854.813	1.20E+09	1.85E-17	1.87E-33	-0.511
245	-166633.797	1.75E+09	3.26E-17	2.92E-33	-0.738	342	-210948.563	5.05E+08	1.56E-17	1.26E-33	-0.284
246	-167171.531	8.34E+08	2.26E-17	1.87E-33	-0.437	343	-211323.422	2.58E+09	4.11E-17	3.21E-33	-0.778
247	-167387.625	1.53E+09	3.99E-17	2.98E-33	-0.653	344	-211409.938	1.21E+09	1.85E-17	1.87E-33	-0.511
248	-167397.313	8.78E+08	2.25E-17	1.87E-33	-0.444	345	-211591.359	5.52E+08	1.44E-17	1.26E-33	-0.300
249	-167563.359	8.12E+08	2.27E-17	1.87E-33	-0.434	346	-211761.609	2.24E+09	3.78E-17	3.07E-33	-0.751
250	-167841.828	2.15E+09	3.20E-17	3.03E-33	-0.806	347	-212749.563	8.96E+08	2.19E-17	1.87E-33	-0.449
251	-167915.453	1.91E+09	3.89E-17	3.12E-33	-0.735	348	-213419.891	2.94E+08	1.99E-17	1.26E-33	-0.228
252	-168217.563	9.83E+08	2.98E-16	2.50E-32	-0.052	349	-214062.063	2.15E+09	2.90E-17	2.80E-33	-0.751
253	-168245.078										

1981SAOSR.390.....
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	LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F	
366	-225626.688	9.42E+08	2.15E-17	1.87E-33	-0.454	93	-121325.805	1.64E+09	3.65E-17	3.09E-33	-0.775
367	-226672.875	9.25E+08	2.16E-17	1.87E-33	-0.451	94	-121570.086	3.89E+08	-1.43E-15	2.99E-32	0.926
368	-229088.469	1.36E+09	3.35E-17	2.77E-33	-0.639	95	-122194.273	6.67E+08	-2.57E-15	2.50E-32	0.725
369	-230783.781	1.41E+09	3.29E-17	2.78E-33	-0.647	96	-122285.664	6.75E+08	-1.49E-15	2.50E-32	0.740
						97	-122424.430	5.93E+08	1.44E-17	1.26E-33	-0.304
						98	-123359.898	2.67E+08	8.06E-15	2.12E-32	-0.558
						99	-123463.555	2.19E+08	6.34E-16	1.34E-32	-0.817
						100	-123815.805	2.50E+08	7.39E-15	2.12E-32	-0.562
						101	-123877.969	2.01E+08	6.22E-16	1.34E-32	-0.794
						102	-124498.969	2.53E+08	9.12E-15	2.12E-32	-0.540
						103	-124600.727	2.59E+08	9.13E-15	2.12E-32	-0.557
						104	-124657.391	2.62E+08	8.19E-15	2.12E-32	-0.568
						105	-124855.398	2.47E+08	6.61E-15	2.12E-32	-0.569
						106	-125168.563	2.01E+06	-9.04E-17	8.67E-33	2.250
						107	-125200.516	2.52E+08	6.17E-15	2.12E-32	-0.577
						108	-125215.000	9.01E+08	3.61E-17	2.84E-33	-0.608
						109	-125294.000	2.66E+08	6.53E-15	2.12E-32	-0.593
						110	-125782.758	2.71E+08	5.94E-15	2.12E-32	-0.595
						111	-125888.375	2.71E+08	6.17E-15	2.12E-32	-0.592
						112	-126267.594	2.81E+08	4.44E-15	2.12E-32	-0.640
						113	-126350.281	2.47E+08	4.27E-15	2.12E-32	-0.604
						114	-126526.984	2.84E+08	3.51E-15	2.12E-32	-0.663
						115	-126759.250	2.22E+08	6.17E-16	1.34E-32	-0.823
						116	-127050.438	2.57E+08	2.14E-15	2.12E-32	-0.682
						117	-128613.672	4.24E+08	-1.38E-15	2.99E-32	0.846
						118	-129218.352	4.31E+08	-1.61E-15	2.99E-32	0.838
						119	-129515.852	3.69E+08	-1.59E-15	2.99E-32	0.843
						120	-129767.516	2.84E+08	3.83E-15	2.12E-32	-0.676
						121	-129769.563	2.88E+08	4.08E-15	2.12E-32	-0.671
						122	-129784.672	1.24E+09	1.89E-17	1.87E-33	-0.509
						123	-130223.888	1.33E+09	1.80E-17	1.87E-33	-0.529
						124	-130382.766	7.23E+08	-1.22E-15	2.50E-32	0.553
						125	-130504.203	2.73E+08	2.69E-15	2.12E-32	-0.728
						126	-130606.680	8.12E+08	2.14E-16	2.50E-32	0.445
						127	-130821.023	3.16E+08	2.73E-15	2.12E-32	-0.790
						128	-130977.227	2.72E+08	2.48E-15	2.12E-32	-0.746
						129	-132398.219	2.32E+08	6.12E-16	1.34E-32	-0.842
						130	-132844.938	2.11E+08	9.37E-16	1.34E-32	-0.819
						131	-133978.969	2.47E+08	7.18E-15	2.12E-32	-0.559
						132	-134554.922	2.55E+08	4.94E-15	2.12E-32	-0.614
						133	-136632.297	3.32E+08	2.51E-15	2.12E-32	-0.823
						134	-136735.625	3.24E+08	2.49E-15	2.12E-32	-0.818
						135	-136863.188	3.35E+08	2.41E-15	2.12E-32	-0.836
						136	-137037.359	8.74E+08	-2.99E-15	2.50E-32	0.478
						137	-137294.172	2.82E+08	5.04E-15	2.12E-32	-0.664
						138	-137427.922	9.36E+08	-9.95E-15	2.50E-32	0.416
						139	-137483.125	3.13E+08	2.08E-15	2.12E-32	-0.871
						140	-137541.656	3.46E+08	2.09E-15	2.12E-32	-0.891
						141	-137692.625	5.24E+08	1.43E-17	1.26E-33	-0.299
						142	-137720.547	8.35E+08	-6.68E-15	2.50E-32	0.435
						143	-138470.031	8.33E+08	-3.28E-14	2.50E-32	0.374
						144	-138503.406	6.25E+08	6.34E-16	1.34E-32	-0.828
						145	-138649.516	3.25E+08	2.01E-15	2.12E-32	-0.900
						146	-138967.625	7.50E+08	-1.18E-14	2.50E-32	0.381
						147	-139092.094	1.25E+09	2.89E-17	2.66E-33	-0.657
						148	-139172.500	8.26E+08	-2.78E-14	2.50E-32	0.301
						149	-139564.688	8.18E+08	1.08E-14	2.50E-32	0.283
						150	-139604.922	7.95E+08	3.01E-15	2.50E-32	0.271
						151	-140122.781	2.56E+08	1.88E-17	1.26E-33	-0.219
						152	-140148.406	1.71E+09	2.96E-17	2.79E-33	-0.723
						153	-140196.703	8.99E+08	3.08E-15	2.50E-32	0.209
						154	-140403.297	9.26E+08	-2.17E-18	2.50E-32	0.190
						155	-140586.109	5.24E+08	1.43E-17	1.26E-33	-0.299
						156	-141223.719	8.43E+08	1.25E-15	2.50E-32	0.266
						157	-141476.219	1.54E+09	2.99E-17	2.77E-33	-0.702
						158	-142002.969	1.78E+09	2.95E-17	2.84E-33	-0.748
						159	-142167.469	2.97E+08	2.99E-15	2.12E-32	-0.745
						160	-142277.469	3.02E+08	2.93E-15	2.12E-32	-0.755
						161	-142966.531	2.62E+08	2.10E-17	1.26E-33	-0.220
						162	-143388.297	1.55E+09	2.91E-17	2.74E-33	-0.703
						163	-143734.391	1.15E+09	1.85E-17	1.87E-33	-0.507
						164	-143929.219	5.19E+08	1.45E-17	1.26E-33	-0.296
						165	-143955.234	1.06E+09	1.92E-17	1.87E-33	-0.492
						166	-144021.922	1.13E+09	1.88E-17	1.87E-33	-0.503
						167	-144859.563	1.26E+09	3.57E-17	2.86E-33	-0.654
						168	-145039.141	2.33E+08	6.04E-16	1.34E-32	-0.845
						169	-145355.266	1.43E+09	3.34E-17	2.86E-33	-0.692
						170	-145409.984	1.07E+09	1.92E-17	1.87E-33	-0.492
						171	-145838.359	1.70E+09	3.00E-17	2.81E-33	-0.723
						172	-146014.578	1.96E+09	2.97E-17	2.89E-33	-0.774
						173	-146247.500	1.49E+09	2.97E-17	2.74E-33	-0.693
						174	-146343.672	2.60E+08	2.11E-17	1.26E-33	-0.219
						175	-146670.766	1.15E+09	1.86E-17	1.87E-33	-0.507
						176	-146737.094	1.13E+09	1.88E-17	1.87E-33	-0.503
						177	-146760.406	9.26E+08	7.92E-15	2.50E-32	0.169
						178	-147056.734	7.07E+08	2.47E-17	1.87E-33	-0.410
						179	-147127.813	9.38E+08	3.35E-15	2.50E-32	0.076
						180	-147279.016	1.28E+09	3.52E-17	2.83E-33	-0.650
						181	-147661.188	1.09E+09	1.91E-17	1.87E-33	-0.496
						182	-147684.594	1.31E+09	3.50E-17	2.85E-33	-0.659
						183	-147692.078	6.44E+08	2.52E-17	1.87E-33	-0.396
						184	-148067.734	6.72E+08	2.49E-17	1.87E-33	-0.401
						185	-149475.953	1.92E+09	2.96E-17	2.82E-33	-0.746
						186	-149765.906	1.30E+09	4.11E-17	2.94E-33	-0.620
						187	-149817.609	8.09E+08	2.28E-17	1.87E-33	-0.434
						188	-149864.797	9.86E+08	4.11E-17	2.85E-33	-0.568
						189	-149927.203	1.11E+09	1.91E-17	1.87E-33	-0.498

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LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F		
190	-150008.844	1.03E+09	1.98E-17	1.87E-33	-0.483	287	-165600.219	4.90E+08	1.57E-17	1.26E-33	-0.283
191	-150021.391	1.17E+09	4.05E-17	2.91E-33	-0.606	288	-165771.438	8.53E+08	2.31E-17	1.87E-33	-0.437
192	-150298.016	3.52E+08	1.88E-15	2.12E-32	-0.931	289	-166042.031	1.12E+09	1.97E-17	1.87E-33	-0.490
193	-150318.453	3.61E+08	1.88E-15	2.12E-32	-0.938	290	-166108.938	4.47E+08	1.40E-15	2.12E-32	-1.154
194	-150371.969	1.11E+09	1.89E-17	1.87E-33	-0.499	291	-166224.141	4.40E+08	1.39E-15	2.12E-32	-1.152
195	-150400.422	1.05E+09	1.95E-17	1.87E-33	-0.488	292	-166378.859	1.06E+09	1.99E-17	1.87E-33	-0.485
196	-150821.875	5.28E+08	1.52E-17	1.26E-33	-0.291	293	-166517.250	1.07E+09	1.98E-17	1.87E-33	-0.487
197	-150832.391	1.71E+09	2.65E-17	2.98E-33	-0.747	294	-166538.750	1.72E+09	3.39E-17	2.92E-33	-0.721
198	-151011.031	7.06E+08	2.39E-17	1.87E-33	-0.413	295	-166725.719	1.59E+09	3.65E-17	2.92E-33	-0.679
199	-151333.313	1.76E+09	3.70E-17	3.01E-33	-0.741	296	-166745.078	4.72E+08	1.60E-17	1.26E-33	-0.278
200	-151387.609	6.90E+08	2.43E-17	1.87E-33	-0.407	297	-166861.750	9.73E+08	2.08E-17	1.87E-33	-0.468
201	-151635.016	1.74E+09	3.86E-17	2.98E-33	-0.687	298	-167127.094	1.72E+09	3.89E-17	3.01E-33	-0.690
202	-151715.563	1.85E+09	3.60E-17	3.05E-33	-0.755	299	-167214.266	1.12E+09	8.71E-16	2.50E-32	-0.027
203	-151952.109	1.96E+09	3.70E-17	3.09E-33	-0.756	300	-167234.813	8.89E+08	2.24E-17	1.87E-33	-0.446
204	-151969.625	1.19E+09	1.85E-17	1.87E-33	-0.510	301	-167563.516	8.08E+08	2.27E-17	1.87E-33	-0.433
205	-152257.875	2.55E+08	5.45E-16	1.34E-32	-0.890	302	-167603.797	2.14E+08	3.19E-17	3.02E-33	-0.804
206	-152620.453	2.34E+08	5.78E-16	1.34E-32	-0.867	303	-167696.578	8.94E+08	2.19E-17	1.87E-33	-0.450
207	-152722.984	1.65E+09	3.72E-17	2.98E-33	-0.700	304	-167945.891	8.16E+08	2.27E-17	1.87E-33	-0.434
208	-152854.313	2.58E+08	7.89E-16	1.34E-32	-0.893	305	-168260.656	1.75E+09	3.73E-17	3.00E-33	-0.705
209	-152931.516	9.28E+08	4.10E-17	2.83E-33	-0.561	306	-168518.297	1.13E+09	4.87E-17	2.50E-32	-0.165
210	-153652.547	5.26E+08	1.52E-17	1.26E-33	-0.290	307	-168553.966	5.51E+08	1.42E-17	1.26E-33	-0.302
211	-153660.203	1.91E+09	3.23E-17	3.01E-33	-0.786	308	-168563.409	2.08E+09	3.48E-17	2.98E-33	-0.747
212	-153757.406	7.07E+08	2.42E-17	1.87E-33	-0.411	309	-168777.266	1.81E+09	3.48E-17	2.98E-33	-0.733
213	-153917.000	6.92E+08	2.41E-17	1.87E-33	-0.409	310	-168791.781	7.49E+08	2.34E-17	1.87E-33	-0.420
214	-154160.594	1.65E+09	3.37E-17	2.88E-33	-0.702	311	-169047.938	1.90E+09	3.45E-17	2.98E-33	-0.741
215	-154630.141	6.95E+08	2.46E-17	1.87E-33	-0.408	312	-169195.844	1.13E+09	2.00E-17	1.87E-33	-0.491
216	-154776.438	6.89E+08	2.48E-17	1.87E-33	-0.406	313	-169324.344	1.82E+09	3.48E-17	3.01E-33	-0.744
217	-155400.906	4.38E+08	1.75E-15	2.99E-32	0.735	314	-169579.172	1.70E+09	3.74E-17	2.98E-33	-0.697
218	-155428.016	1.32E+09	3.81E-17	2.90E-33	-0.637	315	-169642.016	5.28E+08	1.52E-17	1.26E-33	-0.290
219	-155619.594	1.24E+09	3.84E-17	2.91E-33	-0.629	316	-169954.625	5.67E+08	1.44E-17	1.26E-33	-0.300
220	-155660.672	1.49E+09	3.55E-17	2.95E-33	-0.702	317	-169969.172	1.37E+09	3.73E-17	2.89E-33	-0.642
221	-155871.359	1.33E+09	3.75E-17	2.89E-33	-0.640	318	-170448.766	1.13E+09	1.89E-17	1.87E-33	-0.501
222	-155922.828	1.28E+09	3.97E-17	2.92E-33	-0.624	319	-170524.594	1.69E+09	3.74E-17	2.97E-33	-0.686
223	-156339.172	5.28E+08	1.43E-17	1.26E-33	-0.298	320	-170599.734	1.64E+09	3.91E-17	2.99E-33	-0.667
224	-156713.281	1.58E+09	3.53E-17	2.99E-33	-0.732	321	-170637.391	3.39E+08	1.89E-17	1.26E-33	-0.241
225	-157076.234	5.33E+08	1.51E-17	1.26E-33	-0.292	322	-170784.400	2.09E+09	3.15E-17	2.96E-33	-0.784
226	-157123.281	1.30E+09	1.81E-17	1.87E-33	-0.524	323	-171022.734	8.05E+08	2.28E-17	1.87E-33	-0.431
227	-157376.453	6.09E+08	1.40E-17	1.26E-33	-0.311	324	-171436.156	1.11E+09	1.29E-17	1.87E-33	-0.497
228	-157887.094	4.21E+08	1.59E-15	2.12E-32	-1.056	325	-171689.828	2.12E+09	3.53E-17	3.10E-33	-0.774
229	-158062.234	1.07E+09	2.02E-17	1.87E-33	-0.481	326	-172199.484	2.03E+09	2.93E-17	2.85E-33	-0.769
230	-158075.516	1.15E+09	1.95E-17	1.87E-33	-0.495	327	-172326.531	1.05E+09	2.02E-17	1.87E-33	-0.481
231	-158170.281	4.41E+08	1.53E-15	2.12E-32	-1.088	328	-172364.828	9.42E+08	2.13E-17	1.87E-33	-0.459
232	-158189.625	1.19E+09	1.90E-17	1.87E-33	-0.505	329	-172462.859	1.99E+09	3.09E-17	2.91E-33	-0.766
233	-158271.594	5.38E+08	1.44E-17	1.26E-33	-0.299	330	-172651.906	9.97E+08	2.00E-17	1.87E-33	-0.468
234	-158302.047	4.16E+08	1.52E-15	2.12E-32	-1.078	331	-172784.047	1.63E+09	2.09E-17	2.95E-33	-0.696
235	-158557.344	1.40E+09	2.89E-17	2.69E-33	-0.677	332	-172804.984	1.16E+09	1.41E-17	1.87E-33	-0.500
236	-158678.938	4.19E+08	1.49E-15	2.12E-32	-1.095	333	-172928.203	1.87E+09	3.77E-17	3.02E-33	-0.736
237	-158847.844	2.79E+08	2.05E-17	1.26E-33	-0.224	334	-173032.063	9.27E+08	2.12E-17	1.87E-33	-0.457
238	-158990.047	3.97E+08	8.89E-16	2.12E-32	-1.106	335	-173206.906	1.20E+09	1.88E-17	1.87E-33	-0.508
239	-159113.594	4.32E+08	1.34E-15	2.12E-32	-1.150	336	-173420.125	2.29E+09	3.60E-17	3.08E-33	-0.784
240	-159299.797	1.82E+09	3.18E-17	2.91E-33	-0.748	337	-173842.141	1.81E+09	4.31E-17	3.07E-33	-0.719
241	-159376.516	4.43E+08	1.37E-15	2.12E-32	-1.167	338	-174033.859	9.45E+08	2.22E-17	1.87E-33	-0.459
242	-159428.203	4.28E+08	1.47E-15	2.12E-32	-1.171	339	-174113.297	1.85E+09	3.88E-17	3.07E-33	-0.739
243	-159461.922	1.08E+09	2.04E-17	1.87E-33	-0.479	340	-174440.797	8.89E+08	2.18E-17	1.87E-33	-0.447
244	-159722.391	1.54E+09	3.09E-17	2.81E-33	-0.701	341	-174834.734	1.14E+09	1.89E-17	1.87E-33	-0.501
245	-159828.797	4.65E+08	1.53E-17	1.26E-33	-0.279	342	-175109.969	8.03E+08	2.34E-17	1.87E-33	-0.429
246	-159846.719	4.59E+08	1.35E-15	2.12E-32	-1.179	343	-175189.188	1.79E+09	3.91E-17	3.08E-33	-0.722
247	-159853.406	1.31E+09	1.82E-17	1.87E-33	-0.526	344	-175238.422	9.06E+08	2.20E-17	1.87E-33	-0.452
248	-159993.000	4.31E+08	1.35E-15	2.12E-32	-1.172	345	-175423.563	1.20E+09	1.86E-17	1.87E-33	-0.511
249	-160471.281	3.30E+08	1.89E-17	1.26E-33	-0.241	346	-175463.563	4.92E+08	1.61E-17	1.26E-33	-0.282
250	-160590.578	1.75E+09	2.97E-17	2.78E-33	-0.721	347	-175588.688	2.16E+09	3.15E-17	2.99E-33	-0.797
251	-160617.688	4.50E+08	1.46E-15	2.12E-32	-1.215	348	-175958.469	1.06E+09	2.04E-17	1.87E-33	-0.482
252	-160704.266	1.10E+09	1.99E-17	1.87E-33	-0.485	349	-176148.453	1.15E+09	1.92E-17	1.87E-33	-0.498
253	-160766.391	1.13E+09	1.96E-17	1.87E-33	-0.492	350	-176184.719	1.13E+09	1.95E-17	1.87E-33	-0.496
254	-160825.000	1.65E+09	3.07E-17	2.79E-33	-0.706	351	-176204.578	2.22E+09	4.20E-17	3.19E-33	-0.753
255	-161043.969	1.83E+09	3.10E-17	2.81E-33	-0.718	352	-176728.766	1.10E+09	2.00E-17	1.87E-33	-0.485
256	-161044.672	1.27E+09	1.84E-17	1.87E-33	-0.519	353	-176878.406	1.07E+09	2.01E-17	1.87E-33	-0.481
257	-161160.578	1.70E+09	3.17E-17	2.82E-33	-0.706	354	-177026.141	1.09E+09	1.99E-17	1.87E-33	-0.485
258	-161376.469	1.59E+09	3.18E-17	2.84E-33	-0.705	355	-177153.781	1.34E+09	3.49E-17	2.89E-33	-0.662
259	-161725.266	1.47E+09	3.62E-17	2.85E-33	-0.663	356	-177235.859	1.17E+09	1.94E-17	1.87E-33	-0.499
260	-161798.922	3.30E+08	1.88E-17	1.26E-33	-0.240	357	-177861.563	2.02E+09	3.95E-17	3.15E-33	-0.746
261	-161828.094	1.07E+09	2.02E-17	1.87E-33	-0.480	358	-178307.359	7.83E+08	2.36E-17	1.87E-33	-0.424
262	-162447.781	2.13E+09	3.17E-17	3.02E-33	-0.799	359	-178710.891	1.15E+09	1.98E-17	1.87E-33	-0.490
263	-162499.859	1.09E+09	1.90E-17	1.87E-33	-0.496	360	-178867.813	2.77E+08	5.44E-16	1.34E-32	-0.932
264	-162508.156	1.10E+09	1.91E-17	1.87E-33	-0.497	361	-179554.891	1.02E+09	2.08E-17	1.87E-33	-0.470
265	-162592.734	1.11E+09	1.90E-17	1.87E-33	-0.499	362	-179797.406	6.65E+08	2.42E-17	1.87E-33	-0.402
266	-162679.828	1.05E+09	1.93E-17	1.87E-33	-0.490	363	-180157.094	2.02E+09	3.86E-17	3.09E-33	-0.736
267	-162757.875	1.12E+09	1.88E-17	1.87E-33	-0.501	364	-180275.094	2.02E+09	3.70E-17	3.09E-33	-0.751
268	-162785.313	2.09E+09	3.22E-17	3.03E-33	-0.798	365	-180417.406	5.54E+08	1.42E-17	1.26E-33	-0.303
269	-163784.375	2.03E+09	3.29E-17	2.96E-33	-0.769	366	-180603.266	1.21E+09	1.85E-17	1.87E-33	-0.512
270	-163813.172	1.31E+09	1.81E-17	1.87E-33	-0.526	367	-180739.156	1.75E+09	4.00E-17	3.00E-33	-0.667
271	-164115.328	1									

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
384	-187614.250	6.03E+08	1.01E-15	2.12E-32	-1.437	38	-102844.148	5.91E+08	-1.16E-15	2.50E-32	1.045
385	-188102.000	1.19E+09	1.87E-17	1.87E-33	-0.508	39	-103008.648	3.81E+08	-1.42E-15	2.99E-32	0.994
386	-188293.375	6.24E+08	9.63E-16	2.12E-32	-1.491	40	-103074.313	5.75E+08	-1.11E-15	2.50E-32	1.040
387	-188388.344	5.55E+08	1.42E-17	1.26E-33	-0.303	41	103094.727	5.00E+08	1.44E-17	1.26E-33	-0.295
388	-188432.719	9.64E+08	2.12E-17	1.87E-33	-0.461	42	-103901.281	5.71E+08	-1.12E-15	2.50E-32	1.056
389	-190445.672	8.44E+08	2.25E-17	1.87E-33	-0.437	43	103983.508	3.36E+08	-1.39E-15	2.99E-32	0.987
390	-190447.391	1.21E+09	-2.19E-16	2.50E-32	-0.317	44	-104013.273	6.00E+08	-1.23E-15	2.50E-32	1.021
391	-190468.188	1.62E+09	3.85E-17	2.92E-33	-0.649	45	104000.813	2.81E+08	9.82E-15	2.12E-32	-0.562
392	-191038.609	2.18E+09	2.99E-17	2.88E-33	-0.775	46	-104070.914	6.10E+08	-1.28E-15	2.50E-32	1.005
393	-191064.375	8.45E+08	2.28E-17	1.87E-33	-0.437	47	104380.938	2.74E+08	8.27E-15	2.12E-32	-0.568
394	-191567.594	1.93E+09	3.49E-17	2.93E-33	-0.719	48	-104415.961	5.61E+08	-1.17E-15	2.50E-32	1.012
395	-191623.406	1.90E+09	3.50E-17	2.92E-33	-0.714	49	104705.422	2.47E+08	6.69E-15	2.12E-32	-0.572
396	-194760.875	9.55E+08	2.12E-17	1.87E-33	-0.460	50	-104859.547	6.11E+08	-1.28E-15	2.50E-32	0.973
397	-194828.031	1.16E+09	1.87E-17	1.87E-33	-0.505	51	104873.227	2.50E+08	6.62E-15	2.12E-32	-0.575
398	-195055.328	9.27E+08	2.16E-17	1.87E-33	-0.453	52	105065.633	2.65E+08	6.69E-15	2.12E-32	-0.588
399	-195084.578	1.15E+09	1.91E-17	1.87E-33	-0.500	53	-105005.250	5.22E+08	-1.22E-15	2.50E-32	0.994
400	-195656.313	2.53E+09	3.28E-17	3.16E-33	-0.863	54	-105182.352	5.93E+08	-1.31E-15	2.50E-32	1.002
401	-196363.359	1.21E+09	1.85E-17	1.87E-33	-0.512	55	105291.008	6.12E+08	-1.26E-15	2.50E-32	0.988
402	-196912.594	8.09E+08	2.31E-17	1.87E-33	-0.431	56	105449.539	2.43E+08	5.06E-15	2.12E-32	-0.603
403	-197494.953	1.52E+09	3.58E-17	2.87E-33	-0.657	57	105589.422	6.20E+08	-1.30E-15	2.50E-32	0.974
404	-198264.453	1.97E+09	4.20E-17	3.05E-33	-0.682	58	-105757.813	5.22E+08	-1.21E-15	2.50E-32	0.999
405	-198649.766	2.00E+09	4.12E-17	3.09E-33	-0.708	59	-106100.938	2.56E+08	3.53E-15	2.12E-32	-0.662
406	-199530.156	8.16E+08	2.35E-17	1.87E-33	-0.427	60	-106667.195	6.39E+08	-1.72E-15	2.50E-32	0.846
407	-202915.344	9.89E+08	2.15E-17	1.87E-33	-0.460	61	106836.000	1.31E+09	2.83E-17	2.65E-33	-0.669
408	-204096.219	9.23E+08	2.18E-17	1.87E-33	-0.450	62	-107013.047	5.68E+08	-1.16E-15	2.50E-32	0.928
409	-204210.156	5.61E+08	1.42E-17	1.26E-33	-0.303	63	-108396.430	3.49E+08	-1.36E-15	2.99E-32	1.016
410	-204976.344	2.59E+09	3.13E-17	2.98E-33	-0.809	64	108804.664	3.90E+08	-1.39E-15	2.99E-32	0.961
411	-205614.781	2.14E+09	3.04E-17	2.85E-33	-0.754	65	-109161.258	6.30E+08	-1.52E-15	2.50E-32	0.887
412	-209080.047	1.96E+09	3.78E-17	2.92E-33	-0.679	66	-109236.820	6.47E+08	-1.47E-15	2.50E-32	0.888
413	-210333.594	1.21E+09	1.86E-17	1.87E-33	-0.511	67	-109377.711	6.50E+08	-1.51E-15	2.50E-32	0.890
414	-210577.234	7.55E+08	8.28E-16	2.12E-32	-1.675	68	109463.219	1.07E+09	1.90E-17	1.87E-33	-0.495
415	-210844.156	1.20E+09	1.85E-17	1.87E-33	-0.510	69	-110494.875	5.85E+08	-6.99E-16	2.50E-32	0.886
416	-211339.641	1.70E+09	4.09E-17	2.87E-33	-0.603	70	-111270.555	5.68E+08	-1.64E-15	2.50E-32	0.768
417	-211463.109	5.60E+08	1.41E-17	1.26E-33	-0.303	71	-111504.758	7.45E+08	-2.14E-15	2.50E-32	0.565
418	-211489.422	1.17E+09	1.87E-17	1.87E-33	-0.507	72	-113790.813	5.46E+08	-1.95E-15	2.50E-32	1.036
419	-212405.969	2.18E+09	3.67E-17	3.03E-33	-0.747	73	-113875.539	5.62E+08	-4.99E-16	2.50E-32	0.983
420	-213369.828	2.90E+08	2.00E-17	1.26E-33	-0.227	74	-113929.094	5.86E+08	2.62E-17	1.87E-33	-0.384
421	-213465.234	8.89E+08	2.20E-17	1.87E-33	-0.446	75	-115635.609	6.12E+08	-8.96E-16	2.50E-32	0.748
422	-214144.891	2.20E+09	2.90E-17	2.80E-33	-0.755	76	-115775.273	1.60E+09	3.16E-17	2.94E-33	-0.751
423	-214451.672	2.28E+09	2.90E-17	2.81E-33	-0.764	77	-116194.375	7.20E+08	-2.25E-15	2.50E-32	0.712
424	-215494.359	7.55E+08	2.37E-17	1.87E-33	-0.417	78	-116351.492	6.88E+08	-1.92E-15	2.50E-32	0.724
425	-217554.203	1.16E+09	1.88E-17	1.87E-33	-0.504	79	-116615.523	7.37E+08	-3.05E-15	2.50E-32	0.671
426	-217565.266	2.41E+09	3.09E-17	2.91E-33	-0.782	80	-117845.750	6.33E+08	-1.97E-15	2.50E-32	0.609
427	-217712.109	1.09E+09	1.93E-17	1.87E-33	-0.492	81	-117943.539	7.84E+08	4.15E-17	2.85E-33	-0.549
428	-217847.594	2.56E+09	2.80E-17	2.82E-33	-0.797	82	-118685.813	7.39E+08	-2.88E-15	2.50E-32	0.511
429	-218265.219	1.06E+09	2.01E-17	1.87E-33	-0.481	83	-121568.391	3.89E+08	-1.43E-15	2.99E-32	0.926
430	-218323.328	5.00E+08	1.57E-17	1.26E-33	-0.282	84	-122193.508	2.16E+08	6.33E-16	1.34E-32	-0.813
431	-218595.344	1.02E+09	2.06E-17	1.87E-33	-0.470	85	-122231.609	7.46E+08	-1.54E-15	2.50E-32	0.601
432	-218808.594	1.13E+09	1.93E-17	1.87E-33	-0.495	86	-122395.000	6.64E+08	-1.67E-15	2.50E-32	0.735
433	-218938.594	1.22E+09	1.86E-17	1.87E-33	-0.511	87	-123308.141	2.18E+08	6.82E-16	1.34E-32	-0.815
434	-219159.563	2.21E+09	3.30E-17	2.96E-33	-0.765	88	-123402.047	2.60E+08	7.39E-15	2.12E-32	-0.556
435	-220458.203	8.46E+08	2.22E-17	1.87E-33	-0.441	89	-123561.867	2.57E+08	4.94E-15	2.12E-32	-0.565
436	-222014.109	8.75E+08	2.25E-17	1.87E-33	-0.439	90	-123627.188	2.03E+08	6.64E-16	1.34E-32	-0.797
437	-222392.688	1.85E+09	3.80E-17	2.88E-33	-0.644	91	-124390.359	2.52E+08	1.25E-14	2.12E-32	-0.546
438	-223033.516	2.18E+09	3.72E-17	2.95E-33	-0.697	92	-124539.227	2.66E+08	1.32E-14	2.12E-32	-0.581
439	-225590.313	9.40E+08	2.14E-17	1.87E-33	-0.455	93	-124560.891	2.66E+08	8.86E-15	2.12E-32	-0.578
440	-226437.063	9.23E+08	2.15E-17	1.87E-33	-0.452	94	-124736.336	2.50E+08	5.47E-15	2.12E-32	-0.585
441	-230611.578	1.40E+09	3.30E-17	2.78E-33	-0.648	95	-125113.688	2.73E+08	5.98E-15	2.12E-32	-0.610
						96	-125138.258	2.39E+08	5.39E-15	2.12E-32	-0.594
						97	-125676.898	2.69E+08	5.94E-15	2.12E-32	-0.592
						98	-125785.820	2.71E+08	6.06E-15	2.12E-32	-0.595
						99	-126019.766	2.69E+08	5.97E-15	2.12E-32	-0.598
						100	-126038.141	2.47E+08	4.74E-15	2.12E-32	-0.601
						101	-126485.695	2.87E+08	3.19E-15	2.12E-32	-0.670
						102	-126633.953	2.21E+08	6.16E-16	1.34E-32	-0.822
						103	-126961.305	2.62E+08	2.83E-15	2.12E-32	-0.651
						104	-127060.117	2.05E+08	5.41E-16	1.34E-32	-0.800
						105	-128648.547	4.24E+08	-1.66E-15	2.99E-32	0.846
						106	-129539.234	3.69E+08	-1.59E-15	2.99E-32	0.843
						107	-129547.711	2.88E+08	3.76E-15	2.12E-32	-0.683
						108	-129666.289	2.90E+08	4.03E-15	2.12E-32	-0.674
						109	-129796.258	1.23E+09	1.90E-17	1.87E-33	-0.507
						110	-129816.961	2.87E+08	4.09E-15	2.12E-32	-0.671
						111	-130040.992	7.14E+08	-2.96E-15	2.50E-32	0.592
						112	-130223.648	1.34E+09	1.80E-17	1.87E-33	-0.530
						113	-130288.688	7.18E+08	-5.98E-16	2.50E-32	0.563
						114	-130520.703	2.78E+08	2.58E-15	2.12E-32	-0.724
						115	-130620.258	3.11E+08	2.96E-15	2.12E-32	-0.775
						116	-130879.508	2.72E+08	2.47E-15	2.12E-32	-0.744
						117	-131855.531	2.10E+08	6.22E-16	1.34E-32	-0.807
						118	-132504.813	3.22E+08	6.06E-16	1.34E-32	-0.843
						119	-134013.406	2.51E+08	6.97E-15	2.12E-32	-0.566
						120	-134130.500	2.49E+08	6.94E-15	2.12E-32	-0.563
						121	-135245.281	2.82E+08	3.61E-15	2.12E-32	-0.711
						122	-135996.172	4.07E+08	-1.58E-15	2.99E-32	0.852
						123	-136647.125	3.30E+08	2.51E-15	2.12E-32	-0.822
						124	-136751.266	3.22E+08	2.49E-15	2.12E-32	-0.817
						125	-136907.188	3.32E+08	2.42E-15	2.12E-32	-0.833
						126	-137141.000	8.64E+08	-3.71E-15	2.50E-32	0.487
						127	-137376.484	8.96E+08	8.06E-16	2.50E-32	0.442
						128	-137516.156	3.11E+08	2.07E-15	2.12E-32	-0.867
						129	-137623.016	9.33E+08	-1.09E-14	2.50E-32	0.414
						130	-137703.109	5.24E+08	1.43E-17	1.26E-	

LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F		
135	-139298.750	8.04E+08	4.38E-14	2.50E-32	0.311	232	-161613.797	1.40E+09	3.44E-17	2.86E-33	-0.669
136	-139322.891	7.48E+08	-2.26E-15	2.50E-32	0.338	233	-161723.609	2.80E+08	1.98E-17	1.26E-33	-0.227
137	-139764.422	8.23E+08	-1.79E-13	2.50E-32	0.294	234	-161960.719	1.07E+09	2.02E-17	1.87E-33	-0.480
138	-140062.563	1.71E+09	2.97E-17	2.79E-33	-0.723	235	-162498.594	1.09E+09	1.92E-17	1.87E-33	-0.495
139	-140138.453	2.56E+08	2.74E-17	1.26E-33	-0.219	236	-162525.250	1.09E+09	1.90E-17	1.87E-33	-0.496
140	-140380.219	7.85E+08	-3.48E-15	2.50E-32	0.280	237	-162607.031	1.12E+09	1.89E-17	1.87E-33	-0.501
141	-140549.438	5.24E+08	1.43E-17	1.26E-33	-0.299	238	-162716.922	1.98E+09	3.25E-17	2.95E-33	-0.768
142	-141923.469	1.53E+09	2.98E-17	2.76E-33	-0.700	239	-162729.469	1.05E+09	1.92E-17	1.87E-33	-0.490
143	-142034.406	3.11E+08	3.02E-15	2.12E-32	-0.759	240	-162783.359	1.12E+09	1.88E-17	1.87E-33	-0.501
144	-142043.109	1.78E+08	2.95E-17	2.84E-33	-0.747	241	-162949.688	1.15E+09	3.48E-17	2.75E-33	-0.618
145	-142322.313	2.99E+08	2.89E-15	2.12E-32	-0.755	242	-163389.875	1.14E+09	1.91E-17	1.87E-33	-0.500
146	-143552.766	1.60E+09	2.92E-17	2.76E-33	-0.711	243	-163472.625	2.10E+09	3.21E-17	2.95E-33	-0.788
147	-143748.219	1.15E+09	1.86E-17	1.87E-33	-0.507	244	-163748.625	1.31E+09	1.82E-17	1.87E-33	-0.525
148	-143903.578	5.26E+08	1.43E-17	1.26E-33	-0.298	245	-163809.641	5.51E+08	1.41E-17	1.26E-33	-0.303
149	-143948.219	1.13E+09	1.87E-17	1.87E-33	-0.504	246	-163855.656	1.57E+09	4.08E-17	2.97E-33	-0.663
150	-143955.375	1.06E+09	1.92E-17	1.87E-33	-0.492	247	-163967.359	1.25E+09	1.87E-17	1.87E-33	-0.515
151	-144029.859	1.13E+09	1.88E-17	1.87E-33	-0.503	248	-164152.703	1.18E+09	1.97E-17	1.87E-33	-0.489
152	-144825.703	1.19E+09	3.44E-17	2.80E-33	-0.643	249	-164264.563	1.14E+09	1.90E-17	1.87E-33	-0.501
153	-144965.109	1.23E+09	3.54E-17	2.84E-33	-0.649	250	-164378.672	1.18E+09	1.86E-17	1.87E-33	-0.509
154	-145038.500	2.32E+08	6.03E-16	1.34E-32	-0.845	251	-164396.516	1.96E+09	3.19E-17	2.97E-33	-0.774
155	-145230.859	8.05E+08	-4.27E-15	2.50E-32	0.426	252	-164419.422	1.07E+09	2.01E-17	1.87E-33	-0.481
156	-145367.000	1.07E+09	1.92E-17	1.87E-33	-0.492	253	-164610.172	1.54E+09	3.32E-17	2.89E-33	-0.697
157	-145561.125	1.43E+09	3.34E-17	2.87E-33	-0.692	254	-164672.953	1.20E+09	1.85E-17	1.87E-33	-0.510
158	-145968.828	1.62E+09	2.99E-17	2.78E-33	-0.711	255	-164915.594	1.69E+09	3.08E-17	2.84E-33	-0.724
159	-146237.625	2.59E+08	2.11E-17	1.26E-33	-0.219	256	-165067.906	1.00E+09	2.09E-17	1.87E-33	-0.472
160	-146458.672	1.59E+09	2.95E-17	2.74E-33	-0.694	257	-165138.219	5.47E+08	1.43E-17	1.26E-33	-0.302
161	-146567.547	1.11E+09	1.89E-17	1.87E-33	-0.500	258	-165243.188	1.01E+09	2.08E-17	1.87E-33	-0.474
162	-146706.563	1.14E+09	1.86E-17	1.87E-33	-0.505	259	-165486.750	4.00E+08	1.56E-15	2.12E-32	-1.059
163	-146831.188	9.27E+08	7.90E-15	2.50E-32	0.165	260	-165568.172	1.85E+09	3.26E-17	2.93E-33	-0.747
164	-147048.234	7.07E+08	2.47E-17	1.87E-33	-0.410	261	-165583.578	7.04E+08	2.49E-17	1.87E-33	-0.406
165	-147484.594	1.26E+09	3.47E-17	2.82E-33	-0.650	262	-165655.656	9.38E+08	2.15E-17	1.87E-33	-0.459
166	-147706.500	6.46E+08	2.51E-17	1.87E-33	-0.397	263	-165876.953	9.58E+08	2.10E-17	1.87E-33	-0.465
167	-147768.500	1.08E+09	1.92E-17	1.87E-33	-0.494	264	-165924.906	1.14E+09	1.96E-17	1.87E-33	-0.492
168	-147839.891	1.54E+09	3.33E-17	2.92E-33	-0.721	265	-166025.844	1.27E+09	3.72E-17	2.84E-33	-0.627
169	-148085.406	6.80E+08	2.48E-17	1.87E-33	-0.403	266	-166122.047	1.38E+09	3.83E-17	2.88E-33	-0.634
170	-148669.547	6.82E+08	2.42E-17	1.87E-33	-0.408	267	-166186.906	1.12E+09	1.92E-17	1.87E-33	-0.498
171	-148902.984	1.92E+09	2.96E-17	2.81E-33	-0.746	268	-166195.563	4.43E+08	1.40E-15	2.12E-32	-1.148
172	-149648.172	7.40E+08	2.37E-17	1.87E-33	-0.419	269	-166355.469	9.14E+08	2.16E-17	1.87E-33	-0.455
173	-149663.359	1.36E+09	3.91E-17	2.97E-33	-0.656	270	-166521.547	1.05E+09	2.00E-17	1.87E-33	-0.484
174	-149722.219	1.28E+09	4.07E-17	2.94E-33	-0.623	271	-166551.234	4.58E+08	1.64E-17	1.26E-33	-0.274
175	-149914.859	1.04E+09	4.12E-17	2.87E-33	-0.576	272	-166651.594	1.86E+09	3.13E-17	2.91E-33	-0.757
176	-149974.953	1.12E+09	1.89E-17	1.87E-33	-0.500	273	-166718.578	1.33E+09	3.76E-17	2.85E-33	-0.628
177	-150072.016	1.10E+09	4.05E-17	2.88E-33	-0.591	274	-166901.281	1.00E+09	2.04E-17	1.87E-33	-0.475
178	-150137.109	3.41E+08	2.02E-15	2.12E-32	-0.906	275	-167127.125	3.23E+08	1.93E-17	1.26E-33	-0.238
179	-150228.781	1.06E+09	1.93E-17	1.87E-33	-0.491	276	-167205.828	1.10E+09	9.63E-16	2.50E-32	-0.018
180	-150262.516	3.44E+08	1.94E-15	2.12E-32	-0.918	277	-167228.016	2.11E+09	3.19E-17	3.01E-33	-0.798
181	-150331.891	1.07E+09	1.92E-17	1.87E-33	-0.493	278	-167486.422	8.82E+08	2.18E-17	1.87E-33	-0.450
182	-150838.766	5.28E+08	1.52E-17	1.26E-33	-0.290	279	-167496.875	1.55E+09	3.87E-17	2.94E-33	-0.657
183	-150941.500	7.02E+08	2.39E-17	1.87E-33	-0.412	280	-167645.031	7.79E+08	2.32E-17	1.87E-33	-0.426
184	-150957.406	1.89E+09	3.56E-17	3.05E-33	-0.762	281	-167701.172	1.42E+09	3.69E-17	2.88E-33	-0.654
185	-151267.984	6.16E+08	1.37E-17	1.26E-33	-0.314	282	-167863.484	1.04E+09	5.98E-16	2.50E-32	-0.052
186	-151320.344	1.79E+09	4.04E-17	2.97E-33	-0.660	283	-168345.219	8.33E+08	2.23E-17	1.87E-33	-0.441
187	-151856.141	1.94E+09	3.46E-17	3.10E-33	-0.796	284	-168448.828	2.14E+09	3.43E-17	2.98E-33	-0.757
188	-151904.156	1.20E+09	1.85E-17	1.87E-33	-0.511	285	-168592.063	5.53E+08	1.42E-17	1.26E-33	-0.303
189	-152294.047	2.55E+08	5.54E-16	1.34E-32	-0.890	286	-168739.984	1.69E+09	3.53E-17	2.96E-33	-0.712
190	-152641.500	2.34E+08	5.77E-16	1.34E-32	-0.866	287	-168844.313	1.97E+09	3.35E-17	2.97E-33	-0.754
191	-152772.016	1.62E+09	3.65E-17	2.97E-33	-0.699	288	-168894.875	7.48E+08	2.34E-17	1.87E-33	-0.421
192	-153101.609	9.22E+08	4.11E-17	2.83E-33	-0.559	289	-169142.219	1.69E+09	3.48E-17	2.90E-33	-0.698
193	-153732.109	7.12E+08	2.41E-17	1.87E-33	-0.412	290	-169245.516	1.90E+09	3.40E-17	2.94E-33	-0.737
194	-153831.000	1.89E+09	3.22E-17	3.00E-33	-0.782	291	-169494.578	1.66E+09	3.64E-17	2.97E-33	-0.697
195	-153962.922	6.93E+08	2.41E-17	1.87E-33	-0.410	292	-169555.188	5.25E+08	1.53E-17	1.26E-33	-0.289
196	-154821.844	6.96E+08	2.45E-17	1.87E-33	-0.408	293	-169688.328	1.84E+09	3.63E-17	3.01E-33	-0.730
197	-155237.047	1.41E+09	3.70E-17	2.91E-33	-0.656	294	-169746.359	7.79E+08	2.30E-17	1.87E-33	-0.427
198	-155455.484	1.45E+09	3.99E-17	2.94E-33	-0.690	295	-169956.125	5.82E+08	1.44E-17	1.26E-33	-0.304
199	-155760.734	1.14E+09	3.78E-17	2.84E-33	-0.603	296	-170180.438	1.51E+09	3.73E-17	2.92E-33	-0.661
200	-156011.594	1.24E+09	4.09E-17	2.96E-33	-0.621	297	-170311.828	2.18E+09	3.86E-17	3.15E-33	-0.769
201	-156389.203	5.29E+08	1.43E-17	1.26E-33	-0.298	298	-170325.656	9.31E+08	2.20E-17	1.87E-33	-0.451
202	-156956.938	3.31E+08	1.51E-17	1.26E-33	-0.291	299	-170539.859	1.11E+09	1.92E-17	1.87E-33	-0.496
203	-157750.625	1.20E+09	1.92E-17	1.87E-33	-0.509	300	-170581.766	3.12E+08	1.90E-17	1.26E-33	-0.234
204	-157860.859	1.12E+09	1.96E-17	1.87E-33	-0.492	301	-170830.797	2.15E+09	3.11E-17	2.97E-33	-0.797
205	-157968.469	4.15E+08	1.61E-15	2.12E-32	-1.045	302	-171287.719	1.13E+09	1.88E-17	1.87E-33	-0.502
206	-158045.734	4.25E+08	1.58E-15	2.12E-32	-1.064	303	-171379.344	1.13E+09	1.91E-17	1.87E-33	-0.499
207	-158064.813	1.06E+09	2.04E-17	1.87E-33	-0.478	304	-171458.063	1.50E+09	3.94E-17	2.95E-33	-0.653
208	-158069.500	2.02E+09	3.08E-17	2.94E-33	-0.784	305	-171718.188	1.22E+09	1.85E-17	1.87E-33	-0.513
209	-158117.250	1.13E+09	1.97E-17	1.87E-33	-0.492	306	-172081.078	4.99E+08	1.56E-17	1.26E-33	-0.284
210	-158152.797	5.38E+08	1.44E-17	1.26E-33	-0.300	307	-172226.094	1.99E+09	2.98E-17	2.86E-33	-0.762
211	-158188.922	1.23E+09	1.87E-17	1.87E-33	-0.512	308	-172316.844	1.08E+09	1.98E-17	1.87E-33	-0.487
212	-158320.141	4.40E+08	1.52E-15	2.12E-32	-1.089	309	-172373.906	1.05E+09	1.99E-17	1.87E-33	-0.484
213	-158675.703	1.40E+09	2.88E-17	2.68E-33	-0.677	310	-172495.547	8.85E+08	2.22E-17	1.87E-33	-0.446
214	-158705.813	4.17E+08	1.49E-15	2.12E-32	-1.094	311	-172514.359	1.93E+09	3.30E-17	2.94E-33	-0.747
215	-158898.734	2.69E+08	2.09E-17	1.26E-33	-0.221	312	-172747.813	2.03E+09	3.34E-17	2.9	

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PARTIAL SUMS FOR DAMPING CONSTANTS 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4S5S + D5 4S4D + D5 4P2

LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F		
329	-175996.172	1.83E+09	3.24E-17	2.90E-33	-0.737	20	84527.781	6.13E+08	-1.28E-15	2.50E-32	0.978
330	-176092.188	1.04E+09	2.04E-17	1.87E-33	-0.477	21	85184.734	5.29E+08	-1.27E-15	2.50E-32	0.955
331	-176178.328	1.17E+09	1.89E-17	1.87E-33	-0.504	22	86124.305	5.69E+08	-1.44E-15	2.50E-32	0.887
332	-176697.422	1.07E+09	2.03E-17	1.87E-33	-0.480	23	98445.398	3.76E+08	-1.39E-15	2.99E-32	1.019
333	-176907.109	1.03E+09	2.06E-17	1.87E-33	-0.472	24	99332.102	3.44E+08	-1.47E-15	2.99E-32	1.016
334	-176941.125	1.09E+09	1.99E-17	1.87E-33	-0.486	25	99573.227	3.66E+08	-1.51E-15	2.99E-32	1.012
335	-176990.031	1.06E+09	2.03E-17	1.87E-33	-0.479	26	101698.492	2.20E+08	6.28E-16	1.34E-32	-0.815
336	-177132.000	1.34E+09	3.48E-17	2.89E-33	-0.662	27	-101750.992	9.89E+05	-8.65E-17	6.68E-33	2.263
337	-177227.609	1.17E+09	1.94E-17	1.87E-33	-0.499	28	102842.117	3.80E+08	-1.43E-15	2.99E-32	0.987
338	-178116.125	2.03E+09	3.95E-17	3.15E-33	-0.746	29	-102906.914	5.71E+08	-1.09E-15	2.50E-32	1.053
339	-178619.156	1.14E+09	1.98E-17	1.87E-33	-0.489	30	103608.906	3.39E+08	-1.36E-15	2.99E-32	0.988
340	-178730.016	1.13E+09	1.98E-17	1.87E-33	-0.490	31	-103880.969	6.01E+08	-1.23E-15	2.50E-32	1.020
341	-179308.094	1.70E+09	3.80E-17	3.00E-33	-0.692	32	103950.594	5.41E+08	8.99E-15	2.12E-32	-0.566
342	-179774.625	8.20E+08	2.28E-17	1.87E-33	-0.431	33	-103965.336	6.12E+08	-1.28E-15	2.50E-32	1.003
343	-179849.734	6.65E+08	2.43E-17	1.87E-33	-0.402	34	-104145.680	6.28E+08	-1.25E-15	2.50E-32	0.988
344	-180124.688	1.54E+09	3.69E-17	2.92E-33	-0.658	35	104411.688	2.77E+08	8.03E-15	2.12E-32	-0.571
345	-180455.953	5.54E+08	1.42E-17	1.26E-33	-0.303	36	-104632.133	6.08E+08	-1.30E-15	2.50E-32	0.967
346	-180606.406	1.18E+09	1.87E-17	1.87E-33	-0.507	37	-104803.664	5.24E+08	-1.22E-15	2.50E-32	0.996
347	-180755.656	1.08E+09	2.03E-17	1.87E-33	-0.477	38	104868.500	2.63E+08	6.63E-15	2.12E-32	-0.588
348	-181342.156	1.11E+09	2.00E-17	1.87E-33	-0.485	39	105155.094	6.11E+08	-1.23E-15	2.50E-32	0.990
349	-181492.625	1.54E+09	3.73E-17	2.97E-33	-0.670	40	105211.141	2.45E+08	5.04E-15	2.12E-32	-0.607
350	-181533.125	1.12E+09	1.95E-17	1.87E-33	-0.486	41	105524.461	6.15E+08	-1.29E-15	2.50E-32	0.971
351	-182732.172	9.96E+08	2.07E-17	1.87E-33	-0.470	42	-105843.164	2.57E+08	3.42E-15	2.12E-32	-0.666
352	-182859.797	1.92E+09	2.93E-17	2.80E-33	-0.739	43	-106073.633	5.47E+08	-1.24E-15	2.50E-32	0.963
353	-183416.234	1.01E+09	2.08E-17	1.87E-33	-0.469	44	-106215.125	5.65E+08	-1.42E-15	2.50E-32	0.916
354	-183752.938	1.33E+09	3.68E-17	2.85E-33	-0.637	45	-106666.063	6.38E+08	-1.83E-15	2.50E-32	0.835
355	-183934.250	2.12E+09	3.03E-17	2.90E-33	-0.779	46	-107101.578	5.58E+08	-1.40E-15	2.50E-32	0.904
356	-186585.359	1.74E+09	3.30E-17	2.87E-33	-0.716	47	107219.500	1.23E+09	2.82E-17	2.65E-33	-0.671
357	-186798.844	1.18E+09	1.85E-17	1.87E-33	-0.509	48	-108393.992	3.51E+08	-1.41E-15	2.99E-32	1.016
358	-186974.672	1.17E+09	1.86E-17	1.87E-33	-0.508	49	-109091.668	6.51E+08	-1.33E-15	2.50E-32	0.885
359	-187282.000	1.15E+09	1.88E-17	1.87E-33	-0.503	50	-109257.727	6.48E+08	-1.51E-15	2.50E-32	0.893
360	-187607.938	5.95E+08	1.01E-15	2.12E-32	-1.433	51	109473.648	1.06E+09	1.90E-17	1.87E-33	-0.494
361	-188015.406	5.92E+08	9.96E-16	2.12E-32	-1.451	52	-109533.172	6.56E+08	-1.38E-15	2.50E-32	0.869
362	-188382.109	5.55E+08	1.42E-17	1.26E-33	-0.303	53	-110293.745	5.91E+08	-1.64E-15	2.50E-32	0.866
363	-189075.609	9.18E+08	3.78E-17	2.72E-33	-0.550	54	-110630.481	5.92E+08	-1.73E-15	2.50E-32	0.874
364	-189839.797	8.31E+08	2.24E-17	1.87E-33	-0.438	55	-111102.398	7.72E+08	2.93E-16	2.50E-32	0.540
365	-189989.031	1.78E+09	2.94E-17	2.77E-33	-0.718	56	-113270.070	5.59E+08	-1.31E-15	2.50E-32	1.052
366	-190301.734	2.87E+08	2.01E-17	1.26E-33	-0.227	57	-113764.727	5.52E+08	-1.43E-15	2.50E-32	1.031
367	-190455.188	8.48E+08	2.24E-17	1.87E-33	-0.438	58	-113928.219	5.90E+08	2.61E-17	1.87E-33	-0.385
368	-190636.703	1.65E+09	3.80E-17	2.92E-33	-0.657	59	-115475.344	6.15E+08	-1.68E-16	2.50E-32	0.759
369	-190960.141	2.21E+09	3.00E-17	2.89E-33	-0.780	60	-116237.820	7.12E+08	-2.22E-15	2.50E-32	0.716
370	-191582.172	2.39E+09	3.03E-17	2.94E-33	-0.804	61	-116653.023	7.25E+08	-3.28E-15	2.50E-32	0.678
371	-194569.172	9.28E+08	2.13E-17	1.87E-33	-0.455	62	-117361.805	6.68E+08	-1.61E-15	2.50E-32	0.539
372	-194768.734	9.27E+08	2.14E-17	1.87E-33	-0.456	63	-117903.008	6.62E+08	4.18E-17	2.85E-33	-0.544
373	-194820.828	1.16E+09	1.87E-17	1.87E-33	-0.505	64	-118995.570	7.53E+08	-3.59E-15	2.50E-32	0.461
374	-194919.016	1.18E+09	1.85E-17	1.87E-33	-0.510	65	-121914.344	7.21E+08	-1.40E-15	2.50E-32	0.664
375	-195053.406	1.17E+09	1.89E-17	1.87E-33	-0.504	66	-122086.602	2.16E+08	6.33E-16	1.34E-32	-0.812
376	-195186.891	2.49E+09	3.31E-17	3.15E-33	-0.854	67	-122497.234	1.99E+08	6.25E-16	1.34E-32	-0.789
377	-195244.484	4.94E+08	1.58E-17	1.26E-33	-0.282	68	-123178.969	2.20E+08	6.34E-16	1.34E-32	-0.817
378	-196237.063	2.46E+09	3.24E-17	3.08E-33	-0.832	69	-123464.563	2.52E+08	8.07E-15	2.12E-32	-0.555
379	-196364.547	1.22E+09	1.85E-17	1.87E-33	-0.512	70	-124410.070	2.67E+08	7.10E-15	2.12E-32	-0.585
380	-196906.969	8.08E+08	2.31E-17	1.87E-33	-0.430	71	-124476.117	2.67E+08	6.75E-15	2.12E-32	-0.580
381	-197680.563	1.83E+09	4.10E-17	2.96E-33	-0.646	72	-124620.523	2.70E+08	6.63E-15	2.12E-32	-0.588
382	-198357.984	2.01E+09	4.12E-17	3.06E-33	-0.697	73	-124878.594	2.63E+08	5.71E-15	2.12E-32	-0.612
383	-200202.438	7.94E+08	2.31E-17	1.87E-33	-0.426	74	-124996.836	2.55E+08	5.54E-15	2.12E-32	-0.602
384	-202777.766	1.07E+09	2.02E-17	1.87E-33	-0.479	75	-125671.992	2.71E+08	6.01E-15	2.12E-32	-0.597
385	-203992.516	1.49E+09	3.65E-17	2.89E-33	-0.651	76	-125931.063	2.69E+08	5.77E-15	2.12E-32	-0.603
386	-204101.984	9.28E+08	2.18E-17	1.87E-33	-0.451	77	-126072.461	2.61E+08	3.31E-15	2.12E-32	-0.656
387	-205902.797	2.06E+09	3.00E-17	2.83E-33	-0.744	78	-126277.625	2.50E+08	4.78E-15	2.12E-32	-0.613
388	-210387.750	1.20E+09	1.87E-17	1.87E-33	-0.508	79	-126378.594	2.18E+08	6.09E-16	1.34E-32	-0.818
389	-210831.984	1.19E+09	1.86E-17	1.87E-33	-0.509	80	-126406.914	2.88E+08	2.83E-15	2.12E-32	-0.680
390	-211221.344	1.69E+09	4.11E-17	2.86E-33	-0.596	81	-126757.664	2.09E+08	5.84E-16	1.34E-32	-0.806
391	-211442.750	5.60E+08	1.41E-17	1.26E-33	-0.303	82	-126872.406	2.61E+08	1.42E-15	2.12E-32	-0.664
392	-213442.469	8.76E+08	2.21E-17	1.87E-33	-0.444	83	-128622.313	4.24E+08	-1.66E-15	2.99E-32	0.845
393	-214282.219	2.27E+09	2.89E-17	2.81E-33	-0.761	84	-129252.945	7.88E+08	-2.25E-15	2.50E-32	0.612
394	-214563.172	2.21E+09	2.89E-17	2.80E-33	-0.758	85	-129529.484	2.91E+08	3.97E-15	2.12E-32	-0.679
395	-217581.125	1.17E+09	1.87E-17	1.87E-33	-0.506	86	-129712.008	2.87E+08	4.07E-15	2.12E-32	-0.672
396	-217716.453	1.11E+09	1.90E-17	1.87E-33	-0.497	87	-129815.289	1.21E+09	1.91E-17	1.87E-33	-0.505
397	-218038.563	2.46E+09	3.05E-17	2.91E-33	-0.790	88	-129903.305	2.87E+08	4.02E-15	2.12E-32	-0.680
398	-218539.531	1.01E+09	2.05E-17	1.87E-33	-0.472	89	-130041.680	6.99E+08	-2.14E-15	2.50E-32	0.599
399	-218786.563	1.11E+09	1.95E-17	1.87E-33	-0.491	90	-130295.445	2.83E+08	2.78E-15	2.12E-32	-0.731
400	-220425.453	8.41E+08	2.23E-17	1.87E-33	-0.439	91	-130379.203	3.13E+08	2.81E-15	2.12E-32	-0.776
401	-221363.281	1.17E+09	3.83E-17	2.75E-33	-0.562	92	-130634.289	2.74E+08	2.58E-15	2.12E-32	-0.708
402	-221480.625	8.17E+08	2.27E-17	1.87E-33	-0.431	93	-131854.641	2.11E+08	6.24E-16	1.34E-32	-0.807
403	-222833.734	1.62E+09	3.78E-17	2.83E-33	-0.614	94	-133702.734	2.49E+08	8.78E-15	2.12E-32	-0.543
404	-225423.813	9.66E+08	2.10E-17	1.87E-33	-0.462	95	-134090.422	2.50E+08	7.03E-15	2.12E-32	-0.565
405	-226458.953	8.95E+08	2.17E-17	1.87E-33	-0.447	96	-135142.469	2.83E+08	3.83E-15	2.12E-32	-0.699
						97	-135944.016	2.88E+08	3.03E-15	2.12E-32	-0.756
						98	-135994.391	4.07E+08	-1.50E-15	2.99E-32	0.851
						99	-136682.469	3.27E+08	2.51E-15	2.12E-32	-0.820
						100	-136940.063	3.29E+08	2.43E-15	2.12E-32	-0.832
						101	-137418.188	8.88E+08	2.07E-15	2.50E-32	0.445
						102	-137712.328	5.24E+08	1.43E-17	1.26E-33	-0.299
						103	-137878.828	3.30E+08	1.84E-15	2.12E-32	-0.918

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LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F		
117	-143951.313	1.07E+09	1.92E-17	1.87E-33	-0.492	214	-166504.797	9.37E+08	2.13E-17	1.87E-33	-0.460
118	-143963.969	1.12E+09	1.87E-17	1.87E-33	-0.503	215	-166666.859	1.61E+09	3.37E-17	2.88E-33	-0.701
119	-144037.234	1.13E+09	1.88E-17	1.87E-33	-0.502	216	-166708.469	1.62E+09	3.44E-17	2.90E-33	-0.700
120	-144808.422	1.15E+09	3.44E-17	2.79E-33	-0.634	217	-166887.266	1.02E+09	2.02E-17	1.87E-33	-0.477
121	-145118.234	1.29E+09	3.53E-17	2.86E-33	-0.660	218	-167083.875	2.96E+08	1.99E-17	1.26E-33	-0.231
122	-145231.469	8.01E+08	-4.10E-15	2.50E-32	0.428	219	-167467.453	1.47E+09	3.78E-17	2.91E-33	-0.657
123	-145314.109	1.08E+09	1.92E-17	1.87E-33	-0.493	220	-167610.797	7.48E+08	2.35E-17	1.87E-33	-0.420
124	-145710.984	1.46E+09	3.32E-17	2.87E-33	-0.696	221	-167865.266	1.02E+09	6.67E-16	2.50E-32	-0.041
125	-145797.328	8.47E+08	-4.19E-14	2.50E-32	0.336	222	-167943.344	7.37E+08	2.32E-17	1.87E-33	-0.422
126	-146084.828	1.57E+09	3.00E-17	2.77E-33	-0.702	223	-168126.531	2.34E+09	3.27E-17	3.03E-33	-0.806
127	-146641.156	1.52E+09	2.92E-17	2.73E-33	-0.697	224	-168265.172	1.37E+09	3.80E-17	2.90E-33	-0.639
128	-146752.484	1.13E+09	1.87E-17	1.87E-33	-0.503	225	-168539.891	5.49E+08	1.43E-17	1.26E-33	-0.301
129	-146826.703	6.85E+08	2.39E-17	1.87E-33	-0.411	226	-168547.422	9.09E+08	2.15E-17	1.87E-33	-0.455
130	-147564.734	6.89E+08	3.99E-17	2.74E-33	-0.522	227	-168798.234	1.95E+09	3.31E-17	2.95E-33	-0.753
131	-147726.000	6.40E+08	2.52E-17	1.87E-33	-0.396	228	-169088.719	1.38E+09	3.86E-17	2.91E-33	-0.636
132	-147775.984	1.45E+09	3.40E-17	2.90E-33	-0.701	229	-169162.844	1.64E+09	3.49E-17	2.88E-33	-0.686
133	-147882.797	1.05E+09	1.96E-17	1.87E-33	-0.487	230	-169420.922	1.90E+09	3.45E-17	2.95E-33	-0.733
134	-148115.719	7.20E+08	2.43E-17	1.87E-33	-0.412	231	-169484.109	1.23E+09	1.82E-17	1.87E-33	-0.517
135	-148684.328	6.84E+08	2.41E-17	1.87E-33	-0.408	232	-169578.797	5.35E+08	1.51E-17	1.26E-33	-0.292
136	-149672.531	3.56E+08	2.12E-15	2.12E-32	-0.893	233	-169988.797	8.30E+08	2.25E-17	1.87E-33	-0.436
137	-149737.078	1.38E+09	3.87E-17	2.97E-33	-0.664	234	-170061.453	1.32E+09	3.73E-17	2.87E-33	-0.631
138	-149943.469	1.16E+09	4.10E-17	2.92E-33	-0.602	235	-170303.719	2.12E+09	3.83E-17	3.13E-33	-0.763
139	-150026.906	1.12E+09	1.89E-17	1.87E-33	-0.501	236	-170349.656	9.46E+08	2.19E-17	1.87E-33	-0.454
140	-150135.219	3.36E+08	2.02E-15	2.12E-32	-0.903	237	-170602.844	1.09E+09	1.94E-17	1.87E-33	-0.492
141	-150225.563	1.00E+09	4.02E-17	2.83E-33	-0.569	238	-170623.516	1.53E+09	4.01E-17	2.97E-33	-0.652
142	-150241.969	1.07E+09	1.92E-17	1.87E-33	-0.494	239	-170851.328	4.89E+08	1.57E-17	1.26E-33	-0.283
143	-150638.844	1.66E+09	3.32E-17	2.98E-33	-0.751	240	-171203.672	1.08E+09	1.96E-17	1.87E-33	-0.489
144	-150850.828	6.95E+08	2.40E-17	1.87E-33	-0.411	241	-171305.172	9.61E+08	2.12E-17	1.87E-33	-0.462
145	-150852.484	5.28E+08	1.52E-17	1.26E-33	-0.290	242	-171331.969	1.49E+09	4.01E-17	2.95E-33	-0.644
146	-150943.563	1.95E+09	3.60E-17	3.07E-33	-0.759	243	-171526.906	1.15E+09	1.87E-17	1.87E-33	-0.505
147	-151287.797	1.67E+08	1.37E-17	1.26E-33	-0.314	244	-171762.219	1.19E+09	1.88E-17	1.87E-33	-0.507
148	-151814.578	1.19E+09	1.85E-17	1.87E-33	-0.511	245	-171902.125	1.91E+09	3.75E-17	3.06E-33	-0.735
149	-152271.438	2.55E+08	5.61E-16	1.34E-32	-0.891	246	-172094.000	4.85E+08	1.59E-17	1.26E-33	-0.281
150	-152977.672	1.62E+09	3.65E-17	2.96E-33	-0.702	247	-172315.891	1.16E+09	1.88E-17	1.87E-33	-0.505
151	-153233.906	8.95E+08	4.11E-17	2.82E-33	-0.554	248	-172347.266	1.99E+09	2.92E-17	2.84E-33	-0.762
152	-153704.453	7.14E+08	2.41E-17	1.87E-33	-0.413	249	-172489.938	9.60E+08	2.09E-17	1.87E-33	-0.464
153	-153985.547	6.98E+08	2.40E-17	1.87E-33	-0.411	250	-172612.313	8.60E+08	2.19E-17	1.87E-33	-0.446
154	-155024.266	1.30E+09	3.92E-17	2.86E-33	-0.605	251	-172681.172	1.18E+09	1.90E-17	1.87E-33	-0.504
155	-155452.625	5.48E+08	1.41E-17	1.26E-33	-0.303	252	-172808.344	1.99E+09	3.05E-17	2.90E-33	-0.772
156	-155636.828	1.06E+09	3.76E-17	2.83E-33	-0.595	253	-172915.266	2.15E+09	3.74E-17	3.16E-33	-0.787
157	-156437.750	5.29E+08	1.43E-17	1.26E-33	-0.299	254	-173216.859	1.17E+09	1.90E-17	1.87E-33	-0.504
158	-157803.422	1.21E+09	1.89E-17	1.87E-33	-0.510	255	-173587.750	8.76E+08	2.18E-17	1.87E-33	-0.447
159	-157851.063	1.99E+09	3.08E-17	2.94E-33	-0.781	256	-174033.953	8.66E+08	2.17E-17	1.87E-33	-0.447
160	-157875.672	1.11E+09	1.96E-17	1.87E-33	-0.491	257	-174128.344	2.16E+09	3.48E-17	3.04E-33	-0.777
161	-158040.688	1.09E+09	1.98E-17	1.87E-33	-0.486	258	-174168.875	8.15E+08	2.25E-17	1.87E-33	-0.435
162	-158064.641	1.06E+09	2.04E-17	1.87E-33	-0.477	259	-174530.313	8.90E+08	2.19E-17	1.87E-33	-0.449
163	-158079.625	4.21E+08	1.59E-15	2.12E-32	-1.062	260	-174708.281	2.09E+09	3.68E-17	3.05E-33	-0.750
164	-158143.578	1.09E+09	2.00E-17	1.87E-33	-0.484	261	-174839.109	1.14E+09	1.89E-17	1.87E-33	-0.501
165	-158515.109	4.34E+08	1.53E-15	2.12E-32	-1.083	262	-175178.719	1.17E+09	1.87E-17	1.87E-33	-0.507
166	-158698.063	1.26E+09	1.76E-17	1.87E-33	-0.519	263	-175465.734	1.18E+09	1.88E-17	1.87E-33	-0.507
167	-158705.734	1.92E+09	3.01E-17	2.91E-33	-0.772	264	-175977.547	1.06E+09	2.04E-17	1.87E-33	-0.478
168	-158727.078	4.15E+08	1.49E-15	2.12E-32	-1.094	265	-176024.953	1.70E+09	3.35E-17	2.89E-33	-0.712
169	-158824.422	1.41E+09	2.87E-17	2.68E-33	-0.678	266	-176145.844	1.21E+09	1.87E-17	1.87E-33	-0.510
170	-158852.266	2.60E+08	2.09E-17	1.26E-33	-0.219	267	-176535.531	1.16E+09	3.95E-17	2.84E-33	-0.582
171	-158984.703	4.13E+08	1.31E-15	2.12E-32	-1.122	268	-176735.891	1.07E+09	2.02E-17	1.87E-33	-0.480
172	-159166.094	3.94E+08	2.18E-15	2.12E-32	-1.115	269	-176860.688	1.08E+09	1.99E-17	1.87E-33	-0.485
173	-159460.672	2.47E+08	6.50E-16	1.34E-32	-0.879	270	-176889.188	1.07E+09	2.01E-17	1.87E-33	-0.481
174	-159654.094	4.27E+08	1.39E-15	2.12E-32	-1.140	271	-177148.844	1.35E+09	3.48E-17	2.89E-33	-0.665
175	-159711.656	5.47E+08	1.38E-17	1.26E-33	-0.302	272	-177191.516	1.06E+09	2.06E-17	1.87E-33	-0.476
176	-160439.500	1.72E+09	3.11E-17	2.84E-33	-0.728	273	-177515.547	8.51E+08	2.21E-17	1.87E-33	-0.443
177	-160639.313	1.99E+09	3.03E-17	2.82E-33	-0.744	274	-178741.453	1.05E+09	2.04E-17	1.87E-33	-0.477
178	-160711.109	1.69E+09	3.42E-17	2.88E-33	-0.714	275	-179072.984	9.10E+08	2.15E-17	1.87E-33	-0.452
179	-160863.953	1.07E+09	2.00E-17	1.87E-33	-0.483	276	-179399.156	1.86E+09	3.72E-17	3.02E-33	-0.717
180	-160887.578	1.85E+09	2.91E-17	2.78E-33	-0.734	277	-179576.281	8.78E+08	2.21E-17	1.87E-33	-0.443
181	-161372.016	1.13E+09	1.87E-17	1.87E-33	-0.504	278	-179922.938	9.40E+08	2.15E-17	1.87E-33	-0.454
182	-161541.516	1.69E+09	3.11E-17	2.85E-33	-0.726	279	-181095.047	1.04E+09	2.05E-17	1.87E-33	-0.471
183	-162477.453	1.10E+09	1.92E-17	1.87E-33	-0.495	280	-181499.172	1.39E+09	3.68E-17	2.93E-33	-0.653
184	-162522.984	2.09E+09	3.15E-17	2.96E-33	-0.788	281	-182277.719	1.17E+09	3.54E-17	2.83E-33	-0.626
185	-162558.969	1.09E+09	1.90E-17	1.87E-33	-0.496	282	-182704.031	9.68E+08	2.08E-17	1.87E-33	-0.465
186	-162632.641	1.12E+09	1.88E-17	1.87E-33	-0.501	283	-183031.516	9.38E+08	2.12E-17	1.87E-33	-0.458
187	-162796.188	1.12E+09	1.88E-17	1.87E-33	-0.501	284	-183208.422	1.91E+09	2.92E-17	2.79E-33	-0.738
188	-163229.313	1.13E+09	3.53E-17	2.75E-33	-0.610	285	-186822.984	1.17E+09	1.86E-17	1.87E-33	-0.507
189	-163417.016	1.14E+09	1.91E-17	1.87E-33	-0.501	286	-186998.406	1.16E+09	1.87E-17	1.87E-33	-0.506
190	-163817.781	5.48E+08	1.41E-17	1.26E-33	-0.302	287	-188013.297	5.82E+08	9.97E-16	2.12E-32	-1.446
191	-163865.031	1.22E+09	1.89E-17	1.87E-33	-0.510	288	-188373.953	5.55E+08	1.42E-17	1.26E-33	-0.303
192	-163938.609	1.61E+09	4.08E-17	2.98E-33	-0.670	289	-189138.594	9.00E+08	3.78E-17	2.72E-33	-0.547
193	-163961.375	8.13E+08	2.30E-17	1.87E-33	-0.434	290	-189854.422	8.36E+08	2.23E-17	1.87E-33	-0.440
194	-164177.047	1.09E+09	1.98E-17	1.87E-33	-0.487	291	-190136.719	1.81E+09	2.93E-17	2.77E-33	-0.722
195	-164219.156	1.05E+09	2.02E-17	1.87E-33	-0.479	292	-190288.500	2.86E+08	2.01E-17	1.26E-33	-0.227
196	-164328.922	1.85E+09	3.23E-17	2.94E-33	-0.752	293	-190921.813	2.23E+09	3.01E-17	2.90E-33	-0.783
197	-164358.094	1.16E+09	1.88E-17	1.87E-33	-0.505	294	-191501.188	2.34E+09	3.02E-17	2.93E-33	-0.799
198	-164579.875										

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PARTIAL SUMS FOR DAMPING CONSTANTS 26.01 D7 + D6 4S + D5 4S2 + D6 5S + D6 6S + D6 4D + D6 5D + D5 4SS+ + D5 4S4D + D5 4P2

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F	
311	-214718.594	2.13E+09	2.88E-17	2.79E-33	-0.751	91	-150854.344	5.28E+08	1.52E-17	1.26E-33	-0.291	
312	-217598.969	1.17E+09	1.86E-17	1.87E-33	-0.507	92	-153251.984	8.45E+08	4.11E-17	2.80E-33	-0.545	
313	-218718.953	1.16E+09	1.87E-17	1.87E-33	-0.506	93	-153892.250	6.93E+08	2.40E-17	1.87E-33	-0.410	
314	-221287.781	1.17E+09	3.83E-17	2.75E-33	-0.562	94	-155461.500	5.49E+08	1.41E-17	1.26E-33	-0.303	
315	-221438.031	8.11E+08	2.27E-17	1.87E-33	-0.431	95	-155465.250	1.02E+09	3.74E-17	2.83E-33	-0.595	
316	-225427.234	9.45E+08	2.11E-17	1.87E-33	-0.459	96	-155908.625	1.37E+09	2.95E-17	2.72E-33	-0.681	
						97	-156420.703	5.28E+08	1.43E-17	1.26E-33	-0.299	
5.5	1	20340.301	0.00E+00	-2.09E-17	2.16E-33	0.670	98	-156922.547	1.30E+09	1.79E-17	1.87E-33	-0.527
	2	21430.359	0.00E+00	-7.86E-17	6.19E-33	1.459	99	-157382.781	2.75E+08	1.45E-17	1.26E-33	-0.226
	3	25428.783	0.00E+00	-7.90E-17	6.19E-33	1.453	100	-157702.547	1.99E+09	2.74E-17	2.94E-33	-0.781
	4	26170.182	0.00E+00	-8.14E-17	6.17E-33	1.450	101	-157893.984	1.10E+09	1.97E-17	1.87E-33	-0.489
	5	32909.906	0.00E+00	-7.96E-17	6.19E-33	1.453	102	-158072.141	1.07E+09	1.99E-17	1.87E-33	-0.484
	6	54232.195	3.86E+04	-9.15E-17	8.68E-33	2.273	103	-158103.938	4.19E+08	1.59E-15	2.12E-32	-1.060
	7	-68634.391	8.37E+03	-6.86E-17	8.68E-33	2.269	104	-158149.484	1.09E+09	2.00E-17	1.87E-33	-0.484
	8	-77530.398	8.67E+04	-8.77E-17	8.67E-33	2.257	105	-158730.453	1.27E+09	1.79E-17	1.87E-33	-0.519
	9	82853.656	6.53E+08	-1.12E-15	2.50E-32	1.069	106	-158732.781	4.13E+08	1.49E-15	2.12E-32	-1.093
	10	84296.828	6.08E+08	-1.28E-15	2.50E-32	0.979	107	-158779.938	1.93E+09	3.03E-17	2.91E-33	-0.773
	11	84863.352	5.33E+08	-1.25E-15	2.50E-32	0.959	108	-158988.625	4.17E+08	5.42E-16	2.12E-32	-1.125
	12	98294.398	3.76E+08	-1.38E-15	2.99E-32	1.021	109	-159005.250	1.41E+09	2.87E-17	2.68E-33	-0.678
	13	99093.453	3.29E+08	-1.45E-15	2.99E-32	1.028	110	-159379.281	1.48E+09	3.28E-17	2.84E-33	-0.700
	14	102584.961	3.83E+08	-1.42E-15	2.99E-32	0.989	111	-160736.266	1.59E+09	3.48E-17	2.89E-33	-0.708
	15	103751.656	6.03E+08	-1.25E-15	2.50E-32	1.018	112	-160857.891	1.86E+09	2.87E-17	2.76E-33	-0.731
	16	103936.602	2.79E+08	8.44E-15	2.12E-32	-0.566	113	-161387.047	1.14E+09	1.87E-17	1.87E-33	-0.504
	17	-103847.281	6.14E+08	-1.26E-15	2.50E-32	1.003	114	-161486.313	1.68E+09	3.12E-17	2.85E-33	-0.727
	18	-103885.273	6.27E+08	-1.14E-15	2.50E-32	1.002	115	-161620.203	1.18E+09	1.84E-17	1.87E-33	-0.512
	19	104174.273	6.22E+08	-1.25E-15	2.50E-32	0.984	116	-162267.813	4.83E+08	1.59E-17	1.26E-33	-0.282
	20	104593.273	2.60E+08	6.67E-15	2.12E-32	-0.583	117	-162444.469	1.10E+09	1.92E-17	1.87E-33	-0.495
	21	-104788.273	5.35E+08	-1.24E-15	2.50E-32	0.989	118	-162603.688	1.09E+09	1.91E-17	1.87E-33	-0.496
	22	104863.430	2.45E+08	5.37E-15	2.12E-32	-0.597	119	-162659.969	1.12E+09	1.88E-17	1.87E-33	-0.501
	23	105063.547	5.85E+08	-1.23E-15	2.50E-32	0.995	120	-162796.375	1.11E+09	1.88E-17	1.87E-33	-0.500
	24	105398.852	6.09E+08	-1.28E-15	2.50E-32	0.969	121	-163458.063	1.14E+09	1.91E-17	1.87E-33	-0.500
	25	105763.273	5.59E+08	-1.27E-15	2.50E-32	0.953	122	-163894.469	5.47E+08	1.41E-17	1.26E-33	-0.302
	26	-106218.555	5.44E+08	-1.45E-15	2.50E-32	0.918	123	-163895.047	1.32E+09	4.24E-17	2.94E-33	-0.606
	27	108630.430	3.61E+08	-1.43E-15	2.99E-32	1.016	124	-163955.313	8.08E+08	2.30E-17	1.87E-33	-0.433
	28	-108898.469	6.52E+08	-1.00E-15	2.50E-32	0.885	125	-164111.313	1.08E+09	1.99E-17	1.87E-33	-0.485
	29	-109071.656	6.47E+08	-1.42E-15	2.50E-32	0.893	126	-164311.531	1.89E+09	3.26E-17	2.97E-33	-0.760
	30	-109378.320	6.53E+08	-4.40E-15	2.50E-32	0.871	127	-164413.625	1.14E+09	1.89E-17	1.87E-33	-0.503
	31	109486.148	1.05E+09	1.91E-17	1.87E-33	-0.492	128	-164816.609	1.51E+09	3.04E-17	2.77E-33	-0.694
	32	-110040.977	6.04E+08	-1.89E-15	2.50E-32	0.846	129	-165138.313	5.35E+08	1.45E-17	1.26E-33	-0.298
	33	-110410.914	6.05E+08	-1.90E-15	2.50E-32	0.843	130	-165147.297	1.48E+09	3.23E-17	2.80E-33	-0.680
	34	-113276.320	5.55E+08	-7.98E-16	2.50E-32	1.055	131	-165260.625	4.09E+08	1.59E-15	2.12E-32	-1.054
	35	-113468.953	5.65E+08	-1.17E-15	2.50E-32	1.028	132	-165570.828	1.34E+09	3.50E-17	2.81E-33	-0.644
	36	-114591.320	5.62E+08	-1.95E-15	2.50E-32	0.962	133	-165615.766	9.38E+08	2.14E-17	1.87E-33	-0.460
	37	-116319.773	7.01E+08	-2.28E-15	2.50E-32	0.721	134	-165680.078	1.84E+09	3.52E-17	3.00E-33	-0.741
	38	-117192.836	6.68E+08	-1.40E-15	2.50E-32	0.549	135	-165722.078	4.09E+08	1.50E-15	2.12E-32	-1.087
	39	-121948.641	2.15E+08	6.33E-16	1.34E-32	-0.811	136	-165839.078	1.91E+09	3.54E-17	3.02E-33	-0.751
	40	-122275.180	2.00E+08	6.23E-16	1.34E-32	-0.789	137	-165951.328	9.61E+08	2.09E-17	1.87E-33	-0.466
	41	-124291.063	2.68E+08	6.65E-15	2.12E-32	-0.585	138	-166020.047	2.98E+08	1.95E-17	1.26E-33	-0.232
	42	-124374.820	2.67E+08	-2.39E-15	2.12E-32	-0.582	139	-166544.344	9.00E+08	3.57E-17	2.69E-33	-0.565
	43	-124443.523	2.68E+08	6.99E-15	2.12E-32	-0.582	140	-166562.750	9.05E+08	2.16E-17	1.87E-33	-0.454
	44	-124570.633	2.66E+08	6.64E-15	2.12E-32	-0.586	141	-166751.813	9.90E+08	2.06E-17	1.87E-33	-0.472
	45	-124970.891	2.40E+08	5.13E-15	2.12E-32	-0.594	142	-167166.547	7.18E+08	2.36E-17	1.87E-33	-0.415
	46	-125559.234	2.66E+08	6.03E-15	2.12E-32	-0.593	143	-167826.656	1.18E+09	3.53E-17	2.77E-33	-0.619
	47	-125780.352	2.66E+08	5.15E-15	2.12E-32	-0.618	144	-168323.953	1.48E+09	3.63E-17	2.89E-33	-0.664
	48	-125889.711	2.62E+08	4.05E-15	2.12E-32	-0.642	145	-168607.094	8.32E+08	2.21E-17	1.87E-33	-0.441
	49	-126156.570	2.51E+08	4.06E-15	2.12E-32	-0.625	146	-168925.297	1.87E+09	3.42E-17	2.95E-33	-0.735
	50	-126201.328	2.22E+08	6.11E-16	1.34E-32	-0.824	147	-169043.875	1.66E+09	3.62E-17	2.93E-33	-0.691
	51	-129359.508	7.65E+08	-1.92E-15	2.50E-32	0.615	148	-169276.016	1.05E+09	2.02E-17	1.87E-33	-0.479
	52	-129372.016	2.91E+08	3.95E-15	2.12E-32	-0.679	149	-169320.016	1.57E+09	3.44E-17	2.85E-33	-0.678
	53	-129547.555	2.88E+08	4.02E-15	2.12E-32	-0.676	150	-169536.078	1.19E+09	1.85E-17	1.87E-33	-0.512
	54	-129765.531	2.87E+08	3.96E-15	2.12E-32	-0.681	151	-169965.813	1.18E+09	1.84E-17	1.87E-33	-0.511
	55	-130156.203	2.76E+08	3.57E-15	2.12E-32	-0.692	152	-169978.094	1.26E+09	3.73E-17	2.84E-33	-0.618
	56	-130338.258	2.78E+08	2.69E-15	2.12E-32	-0.722	153	-170603.391	1.09E+09	1.95E-17	1.87E-33	-0.491
	57	-132101.813	2.11E+08	5.53E-16	1.34E-32	-0.806	154	-170850.406	4.86E+08	1.57E-17	1.26E-33	-0.282
	58	-133702.781	2.47E+08	8.78E-15	2.12E-32	-0.541	155	-171079.594	1.44E+09	4.19E-17	2.94E-33	-0.612
	59	-133818.328	2.50E+08	8.23E-15	2.12E-32	-0.553	156	-171181.563	1.13E+09	1.88E-17	1.87E-33	-0.503
	60	-134737.766	2.55E+08	5.45E-15	2.12E-32	-0.600	157	-171480.859	9.95E+08	2.07E-17	1.87E-33	-0.469
	61	-135853.672	2.89E+08	3.12E-15	2.12E-32	-0.750	158	-171574.688	1.12E+09	1.91E-17	1.87E-33	-0.499
	62	-136756.516	3.24E+08	2.49E-15	2.12E-32	-0.816	159	-171821.453	1.75E+09	3.59E-17	2.99E-33	-0.722
	63	-137444.938	8.81E+08	6.18E-15	2.50E-32	0.448	160	-171845.516	1.16E+09	1.90E-17	1.87E-33	-0.503
	64	-137717.016	5.24E+08	1.43E-17	1.26E-33	-0.299	161	-172153.375	1.84E+09	3.67E-17	3.05E-33	-0.734
	65	-138532.938	8.18E+08	-9.28E-15	2.50E-32	0.378	162	-172537.109	8.81E+08	2.19E-17	1.87E-33	-0.448
	66	-139073.641	8.39E+08	3.73E-16	2.50E-32	0.309	163	-172555.063	1.90E+09	3.01E-17	2.83E-33	-0.745
	67	-139445.641	1.26E+09	2.88E-17	2.66E-33	-0.660	164	-173168.141	1.14E+09	1.92E-17	1.87E-33	-0.498
	68	-139847.500	1.70E+09	2.97E-17	2.79E-33	-0.722	165	-173816.453	8.76E+08	2.16E-17	1.87E-33	-0.449
	69	-140148.328	2.57E+08	2.25E-17	1.26E-33	-0.219	166	-173949.047	8.23E+08	2.23E-17	1.87E-33	-0.438
	70	-142096.656	1.78E+09	2.95E-17	2.84E-33	-0.748	167	-174138.594	2.18E+09	3.49E-17	3.01E-33	-0.767
	71	-143779.703	1.14E+09	1.86E-17	1.87E-33	-0.506	168	-174295.828	8.32E+08	2.21E-17	1.87E-33	-0.441
	72	-143939.750	1.07E+09	1.92E-17	1.87E-33	-0.493	169	-174819.438	1.15E+09	1.87E-17	1.87E-33	-0.506
	73	-143980.375	1.12E+09	1.87E-17	1.87E-33	-0.502	170	-175065.906	8.44E+08	3.88E-17	2.76E-33	-0.543
	74	-144043.										

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F		
0.5	1	39109.309	2.90E+08	-5.08E-17	7.92E-33	1.167	98	-151967.422	2.86E+08	-5.01E-16	2.12E-32	-0.369	
	2	42439.820	3.67E+08	-5.74E-17	7.91E-33	1.079	99	-152367.281	6.51E+08	-1.41E-17	6.52E-33	1.514	
	3	45206.449	3.46E+08	-5.01E-17	8.61E-33	1.154	100	-152554.969	2.81E+08	-4.07E-16	2.12E-32	-0.305	
	4	47626.074	3.04E+08	-5.75E-17	8.04E-33	1.082	101	-153625.641	1.31E+08	-6.22E-17	6.35E-33	1.648	
	5	61035.285	2.99E+08	-4.19E-17	7.78E-33	1.108	102	-157049.531	1.53E+09	-2.76E-17	8.54E-33	1.309	
	6	62829.074	4.43E+08	-5.61E-17	8.11E-33	1.071	103	-159155.016	2.46E+08	-6.21E-16	2.12E-32	-0.345	
	7	63559.488	4.92E+08	-5.25E-17	8.24E-33	1.096	104	-161140.438	6.77E+08	-6.25E-17	6.41E-33	1.492	
	8	64806.488	3.64E+08	-5.41E-17	8.27E-33	1.100	105	-163128.766	2.11E+08	-6.93E-17	6.24E-33	1.488	
	9	66248.656	5.51E+08	-5.60E-17	8.82E-33	1.053	106	-164950.438	2.66E+08	-1.88E-15	3.47E-32	1.156	
	10	69426.977	2.91E+08	-6.63E-17	6.90E-33	1.546	107	-168651.469	3.99E+08	-5.80E-17	6.90E-33	1.414	
	11	72429.711	4.49E+08	-5.43E-17	7.97E-33	1.106	108	-172570.578	2.98E+09	-8.66E-17	1.33E-32	0.691	
	12	72212.977	5.03E+08	-5.37E-17	8.12E-33	1.113	109	-175030.563	3.25E+09	-1.01E-16	1.20E-32	0.724	
	13	73187.281	3.32E+08	-5.16E-17	7.95E-33	1.145	110	-178002.094	5.85E+07	4.91E-17	2.11E-32	0.047	
	14	76577.484	6.02E+08	-5.49E-17	8.65E-33	1.060	111	-183830.828	1.19E+09	-4.71E-16	2.52E-32	1.234	
	15	78841.961	5.88E+08	-5.28E-17	8.34E-33	1.073	112	-186229.109	1.61E+09	-7.67E-16	2.29E-32	0.943	
	16	86388.820	4.76E+08	-4.40E-17	8.15E-33	1.277							
	17	87635.922	2.31E+08	1.63E-16	8.64E-33	1.508	J= 1.5	1	39013.207	2.90E+08	-5.08E-17	7.92E-33	1.167
	18	87898.117	2.34E+08	1.43E-16	8.59E-33	1.501	2	42401.301	3.68E+08	-5.74E-17	7.91E-33	1.078	
	19	89003.461	2.62E+08	-4.32E-17	7.72E-33	1.283	3	43620.957	3.39E+08	-5.88E-17	7.46E-33	1.052	
	20	89471.367	6.48E+07	1.18E-15	3.42E-32	0.293	4	45044.168	3.45E+08	-5.02E-17	8.60E-33	1.154	
	21	90648.219	1.23E+08	9.16E-16	3.24E-32	0.258	5	45289.801	2.79E+08	-5.56E-17	8.07E-33	1.130	
	22	91199.742	1.05E+08	1.45E-15	3.60E-32	0.229	6	47389.777	3.03E+08	-5.74E-17	8.04E-33	1.081	
	23	90839.477	2.50E+08	1.20E-15	2.49E-32	0.655	7	59663.457	2.93E+08	-4.94E-17	7.78E-33	1.123	
	24	91850.719	1.20E+08	-6.33E-17	6.28E-33	1.585	8	61332.766	3.12E+08	-4.79E-17	7.81E-33	1.107	
	25	92314.758	2.69E+08	4.76E-16	1.87E-32	0.726	9	61974.934	2.01E+08	-6.52E-17	6.67E-33	1.569	
	26	92453.641	4.96E+08	-4.64E-17	7.80E-33	1.116	10	62125.602	2.88E+08	-5.25E-17	7.93E-33	1.144	
	27	94031.375	4.51E+08	-6.16E-17	8.07E-33	1.409	11	62244.520	3.22E+08	-5.23E-17	7.89E-33	1.131	
	28	-94465.453	4.09E+08	-4.03E-17	7.80E-33	1.145	12	62962.203	4.25E+08	-5.56E-17	8.11E-33	1.080	
	29	94880.742	3.79E+08	-7.52E-17	7.18E-33	1.525	13	63465.109	4.67E+08	-5.26E-17	8.17E-33	1.098	
	30	95767.703	2.29E+08	-7.25E-17	6.64E-33	1.596	14	64834.074	3.60E+08	-5.40E-17	8.27E-33	1.100	
	31	-97667.352	2.85E+08	-1.11E-16	6.89E-33	1.627	15	66612.656	5.53E+08	-5.31E-17	8.25E-33	1.096	
	32	99007.703	2.77E+08	-1.10E-16	6.80E-33	1.587	16	67273.828	4.40E+08	-5.65E-17	8.26E-33	1.076	
	33	101402.383	2.94E+08	-6.80E-17	6.69E-33	1.509	17	69302.094	2.95E+08	-6.63E-17	6.91E-33	1.547	
	34	103125.648	2.52E+08	-2.91E-15	2.12E-32	-0.749	18	72169.000	3.59E+08	-5.55E-17	7.72E-33	1.091	
	35	103418.078	2.45E+08	-4.52E-15	2.12E-32	-0.841	19	72043.023	4.76E+08	-5.33E-17	8.09E-33	1.121	
	36	103437.281	2.57E+08	-3.84E-15	2.12E-32	-0.798	20	72524.563	4.56E+08	-5.50E-17	7.94E-33	1.097	
	37	103676.219	2.56E+08	-4.09E-15	2.12E-32	-0.798	21	73189.109	3.31E+08	-5.16E-17	7.96E-33	1.149	
	38	103967.492	7.79E+08	-1.13E-16	7.64E-33	1.384	22	74498.055	3.83E+08	-4.99E-17	8.16E-33	1.137	
	39	-105871.797	1.86E+08	-5.45E-17	6.38E-33	1.545	23	76129.445	5.70E+08	-5.40E-17	8.59E-33	1.076	
	40	-106109.070	4.14E+08	-5.75E-17	6.98E-33	1.472	24	78487.156	5.12E+08	-5.09E-17	8.23E-33	1.107	
	41	-106625.906	4.60E+08	4.78E-18	7.30E-33	1.486	25	79246.172	1.70E+09	1.36E-16	1.23E-32	0.918	
	42	-107195.438	3.44E+08	4.14E-17	7.14E-33	1.515	26	79243.602	5.33E+08	-5.39E-17	8.21E-33	1.074	
	43	-107647.867	4.85E+08	4.14E-17	8.00E-33	1.449	27	84359.797	4.93E+08	-4.91E-17	8.06E-33	1.142	
	44	-108683.398	4.63E+08	1.44E-16	1.14E-32	1.325	28	-85034.742	5.31E+05	-6.24E-17	6.20E-33	1.639	
	45	-109550.070	2.03E+08	9.19E-16	3.35E-32	0.240	29	86543.977	4.84E+08	-4.83E-17	8.16E-33	1.275	
	46	-110392.039	4.34E+08	1.12E-15	3.03E-32	0.422	30	87602.250	2.91E+08	2.16E-16	9.29E-33	1.470	
	47	-110612.328	1.63E+08	1.19E-15	3.51E-32	0.176	31	87964.648	1.86E+08	1.07E-16	8.29E-33	1.522	
	48	-110848.367	2.49E+08	7.61E-16	3.15E-32	0.333	32	89331.195	9.45E+07	1.11E-15	3.23E-32	0.383	
	49	-111447.453	1.49E+08	1.25E-15	3.40E-32	0.248	33	89625.938	4.21E+08	6.18E-16	1.96E-32	0.939	
	50	-112425.484	4.82E+08	1.10E-16	1.07E-32	1.300	34	90629.898	8.37E+08	-3.70E-17	8.38E-33	1.166	
	51	-113694.672	6.08E+08	-4.14E-17	9.85E-33	1.274	35	90593.500	1.28E+08	9.34E-16	3.24E-32	0.264	
	52	-114010.289	2.41E+09	-1.30E-16	1.31E-32	0.749	36	91208.891	9.02E+07	1.25E-15	3.55E-32	0.191	
	53	-115114.734	1.79E+09	-2.49E-16	1.42E-32	0.762	37	91048.258	9.73E+07	1.43E-15	3.58E-32	0.235	
	54	-117494.906	1.60E+09	-7.54E-16	1.36E-32	0.943	38	90898.875	9.83E+07	1.81E-15	3.56E-32	0.306	
	55	-117724.977	2.39E+09	-3.75E-15	1.33E-32	0.793	39	91843.469	5.28E+08	3.62E-16	2.38E-32	0.496	
	56	-118541.328	6.50E+08	7.73E-16	1.32E-32	1.205	40	91915.953	1.32E+08	-4.56E-17	7.03E-33	1.539	
	57	-119256.453	6.37E+08	3.75E-17	8.56E-33	1.179	41	92225.539	4.52E+08	-2.68E-17	8.14E-33	1.115	
	58	-119471.508	1.87E+08	2.11E-15	2.70E-32	0.808	42	92216.320	6.03E+08	-4.53E-17	8.82E-33	1.194	
	59	-120012.563	1.91E+08	3.09E-15	3.32E-32	0.546	43	92358.609	4.24E+08	-4.99E-17	7.69E-33	1.258	
	60	-120272.578	2.89E+08	1.69E-15	3.04E-32	0.546	44	92647.508	4.72E+08	-4.85E-17	7.72E-33	1.146	
	61	-122215.352	2.38E+08	-1.59E-15	3.12E-32	0.499	45	93328.477	3.98E+08	-5.13E-17	7.82E-33	1.333	
	62	-122240.125	2.42E+08	-5.36E-15	2.11E-32	-0.897	46	93840.344	4.12E+08	-6.26E-17	7.69E-33	1.428	
	63	-122685.445	1.54E+09	7.11E-17	1.43E-32	0.872	47	-94109.188	3.96E+08	-4.22E-17	7.76E-33	1.149	
	64	-123209.945	4.83E+08	-2.90E-15	2.12E-32	-0.786	48	-94230.164	2.74E+08	-6.80E-17	6.84E-33	1.489	
	65	-124194.430	3.39E+08	-2.66E-15	2.12E-32	-0.739	49	94739.172	3.86E+08	-7.68E-17	7.20E-33	1.516	
	66	-124413.469	3.09E+08	-3.12E-15	2.12E-32	-0.782	50	95039.203	4.16E+08	-4.76E-17	7.79E-33	1.147	
	67	-124425.367	3.05E+08	-2.89E-15	2.12E-32	-0.773	51	95858.047	2.29E+08	-7.31E-17	6.64E-33	1.591	
	68	-124590.828	3.47E+08	-4.19E-15	2.12E-32	-0.741	52	97326.273	3.23E+08	-1.20E-16	6.95E-33	1.614	
	69	-124832.305	4.15E+08	1.23E-15	2.09E-32	0.937	53	98338.281	4.06E+08	-5.76E-17	6.98E-33	1.525	
	70	-126001.922	4.52E+08	1.16E-15	2.61E-32	0.652	54	98196.000	1.75E+08	-7.35E-17	6.59E-33	1.616	
	71	-127466.523	3.13E+08	-1.70E-15	2.12E-32	-0.703	55	98770.141	2.91E+08	-1.01E-16	6.81E-33	1.579	
	72	-127646.320	2.33E+08	-2.08E-15	2.12E-32	-0.749	56	-100548.977	2.73E+08	-2.15E-16	6.86E-33	1.583	
	73	-127671.328	2.90E+08	-1.36E-15	2.12E-32	-0.663	57	101573.898	2.79E+08	-6.76E-17	6.68E-33	1.514	
	74	-128665.383	6.35E+08	-6.80E-17	7.26E-33	1.448	58	102503.813	3.88E+08	-8.00E-17	7.06E-33	1.587	
	75	-129973.555	2.56E+09	-3.14E-17	1.32E-32	0.680	59	103034.758	2.51E+08	-3.69E-15	2.12E-32	-0.804	
	76	-131218.406	5.00E+08	-6.25E-17	7.13E-33	1.437	60	103110.789	2.40E+08	-3.49E-15	2.12E-32	-0.797	
	77	-131602.063	2.43E+09	-8.97E-17	1.28E-32	0.846	61	103391.289	2.48E+08	-4.69E-15	2.12E-32	-0.845	
	78	-132814.688	3.49E+08	-2.81E-15	2.12E-32	-0.804	62	103417.906	2.52E+08	-3.69E-15	2.12E-32	-0.810	
	79	-132925.078	2.40E+08	-1.08E-15	2.12E-32	-0.584	63	103645.219	2.53E+08	-5.18E-15	2.12E-32	-0.860	
	80	-133038.516	2.33E+08	-1.12E-15	2.12E-32	-0.592	64	103668.688	2.51E+08	-4.79E-15	2.12E-32	-0.843	
	81	-133044.750	2.37E+08	-1.07E-15	2.12E-32	-0.578	65	103869.023	2.60E+08	-3.68E-15	2.12E-32	-0.768	
	82	-134342.172											

LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F			
82	-110987.891	1.64E+08	9.91E-16	3.30E-32	0.281	179	-157198.578	1.55E+09	-3.01E-17	8.62E-33	1.299	
83	-111931.914	1.84E+08	1.12E-14	3.35E-32	0.334	180	-159154.422	2.57E+08	-5.99E-16	2.12E-32	-0.340	
84	-112144.117	4.93E+08	2.12E-16	1.11E-32	1.284	181	-159169.125	2.93E+08	-4.08E-16	2.12E-32	-0.336	
85	-112474.727	6.72E+08	7.91E-16	1.72E-32	0.950	182	-159878.969	1.70E+08	-6.29E-17	6.24E-33	1.567	
86	-112802.516	1.53E+09	-1.18E-17	1.03E-32	1.112	183	-161259.734	6.52E+08	-6.36E-17	6.39E-33	1.493	
87	-113385.469	6.34E+08	1.31E-16	1.10E-32	1.229	184	-162875.234	2.20E+08	-8.44E-17	6.64E-33	1.490	
88	-113561.039	5.37E+08	5.40E-17	9.99E-33	1.299	185	-163324.000	2.44E+08	-6.96E-16	2.00E-32	1.459	
89	-113791.008	1.65E+09	-1.05E-16	1.14E-32	0.979	186	-164889.266	2.59E+08	-1.79E-15	3.39E-32	1.178	
90	-113817.719	1.32E+09	-7.34E-17	1.04E-32	1.101	187	-165036.703	3.02E+08	-1.49E-15	2.31E-32	1.269	
91	-114390.102	3.98E+08	1.17E-15	2.77E-32	0.560	188	-168610.094	3.98E+08	-2.49E-16	7.00E-33	1.412	
92	-115131.313	1.80E+09	-2.35E-16	1.40E-32	0.768	189	-172809.719	2.96E+09	-4.96E-17	1.32E-32	0.702	
93	-115429.250	6.95E+08	-3.13E-17	8.36E-33	1.281	190	-173826.719	2.74E+09	-1.02E-16	1.20E-32	0.790	
94	-115558.727	2.37E+09	-1.79E-16	1.41E-32	0.576	191	-177826.328	1.73E+08	4.40E-17	2.12E-32	0.031	
95	-116590.688	5.14E+08	4.41E-15	1.01E-32	1.352	192	-178004.906	5.65E+07	4.84E-17	2.11E-32	0.047	
96	-117584.758	2.25E+09	1.61E-17	1.34E-32	0.813	193	-182250.469	2.81E+09	-1.04E-16	1.20E-32	0.769	
97	-117690.234	1.63E+09	-4.97E-15	1.40E-32	0.930	194	-183692.109	1.51E+09	-3.79E-16	2.24E-32	1.130	
98	-117887.938	4.80E+08	-1.80E-16	7.92E-33	1.431	195	-186162.797	1.31E+09	-9.27E-16	2.58E-32	1.011	
99	-118546.914	1.52E+09	4.65E-16	1.49E-32	0.890							
100	-118593.086	7.64E+08	7.69E-16	1.38E-32	1.145	J= 2.5	1	38858.957	2.91E+08	-5.09E-17	7.92E-33	1.166
101	-119077.531	6.45E+08	-2.11E-18	8.20E-33	1.189	2	42334.820	3.69E+08	-5.76E-17	7.91E-33	1.077	
102	-119500.852	2.33E+08	1.54E-15	2.21E-32	0.992	3	43238.586	3.37E+08	-5.84E-17	7.47E-33	1.056	
103	-119613.664	3.29E+08	1.16E-15	1.32E-32	1.330	4	44784.762	3.44E+08	-5.04E-17	8.59E-33	1.152	
104	-119879.953	5.45E+08	1.47E-15	3.03E-32	0.454	5	45079.879	2.82E+08	-5.53E-17	8.09E-33	1.131	
105	-120071.695	1.76E+08	3.93E-15	3.32E-32	0.549	6	46967.445	3.03E+08	-5.72E-17	8.04E-33	1.080	
106	-120253.922	2.03E+08	3.09E-15	3.30E-32	0.517	7	52299.391	1.43E+05	-6.44E-17	6.19E-33	1.600	
107	-120321.867	2.10E+08	2.47E-15	3.28E-32	0.517	8	60402.344	3.15E+08	-4.25E-17	7.81E-33	1.100	
108	-122245.594	2.44E+08	-5.34E-15	2.11E-32	-0.895	9	61041.746	3.78E+08	-5.13E-17	8.10E-33	1.138	
109	-122256.063	2.35E+08	1.69E-13	3.14E-32	0.478	10	61093.414	2.82E+08	-5.16E-17	7.97E-33	1.145	
110	-122288.023	3.46E+08	-2.91E-15	2.12E-32	-0.768	11	62151.563	3.30E+08	-5.23E-17	7.89E-33	1.128	
111	-122880.719	1.57E+09	3.44E-17	1.37E-32	0.889	12	62049.023	2.07E+08	-6.59E-17	6.66E-33	1.572	
112	-123046.406	3.58E+08	-2.96E-15	2.12E-32	-0.783	13	62689.879	4.60E+08	-5.61E-17	8.16E-33	1.068	
113	-123196.063	3.65E+08	-3.13E-15	2.12E-32	-0.786	14	63272.977	4.33E+08	-5.25E-17	8.09E-33	1.103	
114	-123227.180	3.74E+08	-3.37E-15	2.12E-32	-0.812	15	64087.418	4.13E+08	-5.42E-17	8.03E-33	1.092	
115	-123570.125	2.73E+08	-6.89E-15	2.12E-32	-0.875	16	64425.406	3.22E+08	-5.33E-17	7.90E-33	1.112	
116	-124160.086	2.81E+08	-3.11E-15	2.12E-32	-0.801	17	66078.266	3.95E+08	-5.36E-17	7.98E-33	1.108	
117	-124181.656	3.17E+08	-2.49E-15	2.12E-32	-0.749	18	66522.305	5.43E+08	-5.28E-17	8.21E-33	1.100	
118	-124393.953	3.06E+08	-3.30E-15	2.12E-32	-0.785	19	67000.516	4.35E+08	-5.69E-17	8.28E-33	1.072	
119	-124411.336	2.87E+08	-3.05E-15	2.12E-32	-0.778	20	69102.383	3.02E+08	-6.65E-17	6.92E-33	1.549	
120	-124555.289	2.92E+08	-3.87E-15	2.12E-32	-0.800	21	69650.484	4.29E+08	-5.07E-17	8.51E-33	1.132	
121	-124582.898	3.16E+08	-3.74E-15	2.12E-32	-0.766	22	71964.711	5.32E+08	-5.30E-17	8.23E-33	1.125	
122	-125011.219	3.56E+08	1.65E-15	2.51E-32	0.796	23	72238.516	3.50E+08	-5.57E-17	7.70E-33	1.087	
123	-125780.586	2.32E+08	1.88E-15	3.47E-32	0.390	24	72619.492	4.23E+08	-5.60E-17	7.82E-33	1.088	
124	-126148.391	5.76E+08	7.38E-16	2.16E-32	0.793	25	73054.883	3.86E+08	-5.66E-17	7.96E-33	1.067	
125	-127091.313	2.97E+08	-1.21E-15	2.12E-32	-0.664	26	74606.844	3.84E+08	-5.13E-17	8.14E-33	1.134	
126	-127456.563	2.84E+08	-1.72E-15	2.12E-32	-0.712	27	75915.219	5.96E+08	-5.75E-17	8.45E-33	1.044	
127	-127458.563	3.25E+08	-1.56E-15	2.12E-32	-0.700	28	77742.727	4.62E+08	-5.47E-17	8.22E-33	1.117	
128	-127639.672	3.05E+08	-1.77E-15	2.12E-32	-0.729	29	79285.109	1.69E+09	1.98E-17	1.23E-32	0.922	
129	-127658.383	2.83E+08	-1.36E-15	2.12E-32	-0.672	30	78690.844	4.64E+08	-5.06E-17	8.15E-33	1.121	
130	-128610.398	5.54E+08	-3.47E-16	7.32E-33	1.448	31	83868.453	4.67E+08	-4.85E-17	8.00E-33	1.151	
131	-128777.633	4.85E+08	-3.98E-17	7.12E-33	1.470	32	-85044.672	7.93E+05	-6.22E-17	6.20E-33	1.639	
132	-128971.172	2.51E+09	-1.32E-16	1.26E-32	0.756	33	-86033.008	1.90E+05	-6.40E-17	6.19E-33	1.611	
133	-129751.625	2.35E+09	-8.81E-16	1.45E-32	0.676	34	86547.492	4.61E+08	-5.20E-17	7.96E-33	1.115	
134	-130731.617	2.20E+09	-2.75E-16	1.23E-32	0.850	35	86767.578	4.92E+08	-4.33E-17	8.14E-33	1.252	
135	-131104.438	1.55E+09	1.48E-15	1.32E-32	1.001	36	87572.430	3.48E+08	-2.68E-16	1.00E-32	1.427	
136	-131233.500	1.00E+09	8.23E-16	1.09E-32	1.189	37	88059.383	1.49E+08	9.15E-17	8.31E-33	1.526	
137	-131707.047	2.14E+09	3.55E-16	1.41E-32	0.858	38	-88239.031	3.89E+06	-6.14E-17	6.23E-33	1.626	
138	-132600.688	1.13E+09	1.73E-15	2.69E-32	0.526	39	89119.453	1.01E+08	1.05E-15	3.09E-32	0.446	
139	-132791.172	3.02E+08	-3.53E-15	2.12E-32	-0.830	40	89444.461	3.79E+08	7.09E-16	2.17E-32	0.846	
140	-132810.406	3.45E+08	-2.94E-15	2.12E-32	-0.811	41	89727.344	3.14E+08	-4.98E-17	7.74E-33	1.194	
141	-132904.797	2.30E+08	-1.04E-15	2.12E-32	-0.568	42	90487.813	1.22E+08	1.01E-15	3.29E-32	0.264	
142	-132933.125	1.86E+08	-1.19E-15	2.12E-32	-0.612	43	90638.820	9.96E+07	1.39E-15	3.56E-32	0.225	
143	-132934.766	2.59E+08	-1.04E-15	2.12E-32	-0.570	44	91070.547	9.31E+07	1.28E-15	3.53E-32	0.188	
144	-133048.359	2.60E+08	-1.11E-15	2.12E-32	-0.592	45	90901.125	9.45E+07	1.59E-15	3.60E-32	0.244	
145	-133061.359	2.44E+08	-1.02E-15	2.12E-32	-0.562	46	91575.141	6.31E+08	3.46E-16	2.34E-32	0.503	
146	-134124.969	5.39E+08	-3.81E-17	7.58E-33	1.441	47	92018.727	1.05E+08	-6.24E-17	6.31E-33	1.586	
147	-134462.938	6.29E+08	3.44E-18	8.60E-33	1.384	48	92274.117	4.44E+08	-4.96E-17	7.64E-33	1.158	
148	-137273.016	6.68E+08	6.97E-13	1.30E-32	1.367	49	92329.891	4.17E+08	-5.09E-17	7.62E-33	1.263	
149	-137631.531	8.48E+07	1.63E-14	3.62E-32	0.849	50	92695.375	5.98E+08	-4.55E-17	8.83E-33	1.206	
150	-138380.391	7.01E+08	-2.98E-15	2.84E-32	0.878	51	92899.203	4.53E+08	-5.06E-17	7.67E-33	1.161	
151	-138493.219	5.71E+08	-4.08E-16	1.08E-32	1.167	52	93395.359	4.10E+08	-5.35E-17	7.75E-33	1.290	
152	-138617.766	5.53E+08	-2.10E-15	3.25E-32	0.798	53	93830.977	4.11E+08	-6.30E-17	7.70E-33	1.422	
153	-138926.406	3.08E+08	-1.32E-15	2.12E-32	-0.697	54	93988.172	3.17E+08	-6.96E-17	6.79E-33	1.558	
154	-139017.578	3.55E+08	-1.22E-15	2.12E-32	-0.663	55	94211.742	2.76E+08	-7.47E-17	6.81E-33	1.541	
155	-139199.922	1.90E+08	3.07E-14	3.56E-32	0.789	56	94685.094	3.40E+08	-7.35E-17	7.04E-33	1.486	
156	-139252.656	1.79E+08	1.78E-14	3.58E-32	0.780	57	94700.656	4.17E+08	-5.06E-17	7.80E-33	1.148	
157	-139534.031	2.06E+08	-2.61E-14	3.53E-32	0.714	58	95046.102	3.52E+08	-5.73E-17	7.42E-33	1.222	
158	-139769.906	4.35E+08	-2.06E-15	3.33E-32	0.794	59	95995.688	2.27E+08	-7.42E-17	6.64E-33	1.586	
159	-139876.891	4.14E+08	4.89E-15	2.96E-32	0.722	60	96279.492	3.70E+08	-6.97E-17	7.31E-33	1.503	
160	-140500.172	1.76E+09	7.96E-15	2.30E-32	0.653	61	98354.656	2.60E+08	-6.67E-17	6.75E-33	1.594	
161	-142953.484	2.62E+09	3.71E-17	1.30E-32	0.723	62	98505.102	2.21E+08	-6.99E-17	6.65E-33	1.597	
162	-145123.125	3.44E+08	-8.05E-16	2.12E-32	-0.529	63	-99406.008	5.68E+08	-5.11E-17	8.14E-33	1.136	
163	-145233.594	3.04E+08	-8.00E-16	2.12E-32	-0.513	64	100400.359	2.26E+08	-3.40E-16	6.75E-33	1.593	
164	-149140.594	7.48										

PARTIAL SUMS FOR DAMPING CONSTANTS 26.01 D6 4P + D5 4SP + D6 5P + D6 4F

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F	
80	-106181.398	3.59E+08	1.22E-16	8.01E-33	1.496	177	-133086.641	2.66E+08	-9.48E-16	2.12E-32	-0.534	
81	-106755.250	2.72E+08	2.28E-17	6.88E-33	1.542	178	-134433.469	7.14E+08	8.06E-19	8.85E-33	1.367	
82	-107024.406	2.86E+08	-2.63E-17	6.72E-33	1.544	179	-135870.531	2.87E+08	-3.14E-15	2.12E-32	-0.809	
83	107196.203	4.23E+08	1.56E-17	7.57E-33	1.473	180	-136340.547	2.79E+09	-1.82E-16	1.49E-32	0.622	
84	-107758.688	3.43E+08	-1.58E-17	7.26E-33	1.525	181	-137011.547	6.09E+08	-1.71E-16	1.06E-32	1.425	
85	108130.602	2.92E+08	2.30E-16	1.13E-32	1.373	182	-137283.453	6.17E+08	4.13E-15	1.24E-32	1.379	
86	-108737.320	2.21E+08	3.73E-16	1.99E-32	0.944	183	-137851.266	8.86E+07	-6.05E-15	3.62E-32	0.846	
87	108629.250	8.31E+08	8.64E-16	2.11E-32	0.851	184	-138509.953	1.07E+08	6.31E-14	3.22E-32	0.835	
88	-108870.688	1.85E+08	1.04E-15	3.18E-32	0.336	185	-138917.891	1.35E+09	5.91E-15	2.56E-32	0.826	
89	-109182.984	2.55E+08	7.60E-16	2.42E-32	0.728	186	-139017.500	3.38E+08	-1.29E-15	2.12E-32	-0.668	
90	-109688.555	2.27E+08	1.35E-15	2.84E-32	0.607	187	-139091.063	1.31E+09	-8.28E-15	2.39E-32	0.763	
91	-110084.391	4.35E+08	1.22E-15	3.03E-32	0.453	188	-139118.672	1.99E+08	-1.54E-15	2.12E-32	-0.686	
92	-110179.984	1.52E+08	-3.28E-18	7.64E-33	1.553	189	-139261.438	4.28E+08	-5.98E-14	3.32E-32	0.743	
93	-110354.172	4.39E+08	1.09E-15	2.98E-32	0.449	190	-139428.813	2.38E+08	8.92E-15	3.53E-32	0.792	
94	-110619.531	2.73E+08	7.75E-16	3.09E-32	0.380	191	-139773.234	2.17E+08	2.24E-13	3.48E-32	0.686	
95	-111027.602	3.00E+08	2.25E-16	1.26E-32	1.287	192	-139866.719	4.02E+08	8.74E-15	3.03E-32	0.724	
96	-111569.234	1.17E+08	1.34E-15	3.39E-32	0.345	193	-140125.328	9.10E+08	3.41E-15	2.33E-32	0.815	
97	-111745.148	1.27E+08	3.31E-16	3.54E-32	0.241	194	-140817.266	1.53E+09	7.62E-15	2.48E-32	0.665	
98	111929.000	3.78E+08	8.40E-16	2.10E-32	0.806	195	-142363.594	1.08E+09	-5.26E-17	1.08E-32	1.246	
99	-112370.016	6.70E+08	1.61E-15	2.07E-32	0.812	196	-145233.563	3.00E+08	-8.03E-16	2.12E-32	-0.517	
100	-112427.711	8.30E+08	9.50E-16	1.92E-32	0.825	197	-145356.453	2.45E+08	-8.19E-16	2.12E-32	-0.503	
101	-112686.875	1.18E+09	-1.06E-17	9.83E-33	1.203	198	-146322.469	2.93E+08	-6.96E-15	3.39E-32	0.725	
102	-113194.242	6.53E+08	3.01E-17	9.70E-33	1.303	199	-149456.703	7.48E+08	-7.24E-17	6.81E-33	1.577	
103	-113203.055	7.73E+08	2.26E-17	9.77E-33	1.330	200	-150900.375	2.53E+09	-7.84E-17	1.21E-32	0.763	
104	-113356.930	6.41E+08	-3.59E-17	8.72E-33	1.348	201	-151065.125	2.29E+09	-8.46E-17	1.26E-32	0.782	
105	-113570.172	2.42E+09	-7.12E-17	1.34E-32	0.719	202	-151292.234	1.38E+08	-4.14E-16	2.12E-32	-0.315	
106	-113671.617	4.61E+08	3.42E-17	9.53E-33	1.325	203	-151662.938	1.65E+08	-4.21E-16	2.12E-32	-0.319	
107	-114277.094	4.40E+08	1.17E-15	2.80E-32	0.530	204	-151731.672	2.78E+08	-3.48E-16	2.12E-32	-0.278	
108	-115110.820	1.42E+09	1.84E-16	1.90E-32	0.664	205	-151876.813	3.93E+08	-4.64E-16	2.12E-32	-0.358	
109	-115187.383	6.59E+08	8.64E-16	2.89E-32	0.411	206	-151962.844	1.99E+08	-5.13E-16	2.12E-32	-0.369	
110	-115236.609	7.45E+08	6.51E-16	2.74E-32	0.410	207	-152023.500	2.93E+08	-2.76E-16	2.12E-32	-0.230	
111	-115524.609	6.89E+08	-4.03E-17	8.28E-33	1.275	208	-152082.109	1.85E+08	-4.53E-16	2.12E-32	-0.329	
112	-115918.281	8.83E+08	-3.08E-17	8.54E-33	1.310	209	-152136.422	2.45E+08	-3.28E-16	2.12E-32	-0.261	
113	-116608.594	5.34E+08	2.95E-15	1.01E-32	1.347	210	-152227.859	1.63E+08	-4.42E-16	2.12E-32	-0.315	
114	-117246.109	5.10E+08	-4.74E-17	7.43E-33	1.352	211	-152595.484	6.55E+08	-4.48E-17	6.50E-33	1.512	
115	-117387.273	2.25E+09	3.07E-16	1.31E-32	0.822	212	-152636.438	1.85E+08	-3.90E-16	2.12E-32	-0.287	
116	-117783.016	1.19E+09	-6.67E-15	1.29E-32	1.062	213	-152693.656	1.21E+08	-3.86E-16	2.12E-32	-0.280	
117	-117817.250	7.01E+08	-1.65E-13	9.68E-33	1.264	214	-155443.266	6.19E+08	-4.92E-17	6.51E-33	1.570	
118	-118044.148	3.95E+08	1.60E-16	7.77E-33	1.431	215	-159170.047	3.00E+08	-1.12E-16	2.12E-32	-0.332	
119	-118304.297	3.09E+08	-1.91E-17	7.57E-33	1.430	216	-159190.875	2.84E+08	-3.46E-16	2.12E-32	-0.338	
120	-118534.438	1.38E+09	3.85E-16	1.37E-32	0.979	217	-159265.047	3.07E+09	1.19E-16	1.34E-32	0.715	
121	-118630.758	8.11E+08	7.09E-16	1.37E-32	1.136	218	-159957.266	1.87E+08	-6.43E-17	6.27E-33	1.561	
122	-119193.359	5.75E+08	1.03E-16	1.38E-32	1.175	219	-161441.453	6.24E+08	-6.40E-17	6.37E-33	1.493	
123	-119521.547	2.63E+08	7.09E-16	2.01E-32	1.031	220	-162488.453	2.26E+08	-8.02E-17	6.58E-33	1.493	
124	-119687.211	2.42E+08	3.58E-15	2.84E-32	0.603	221	-163405.219	2.42E+08	-7.47E-16	2.06E-32	1.446	
125	-119796.641	3.34E+08	2.09E-15	1.91E-32	1.058	222	-164691.234	6.04E+08	-1.49E-16	7.49E-33	1.494	
126	-119931.563	4.76E+08	1.35E-15	2.89E-32	0.529	223	-164844.453	2.31E+08	-2.26E-15	3.46E-32	1.113	
127	-120289.891	3.45E+08	1.50E-15	2.88E-32	0.570	224	-165164.188	3.26E+08	-1.44E-15	2.14E-32	1.276	
128	-120351.328	2.09E+08	2.34E-15	3.32E-32	0.454	225	-173651.266	2.75E+09	-9.53E-17	1.20E-32	0.793	
129	-120375.031	1.25E+08	3.63E-15	3.54E-32	0.463	226	-177638.313	3.08E+08	4.76E-17	2.12E-32	0.016	
130	-122253.672	2.48E+08	-5.32E-15	2.11E-32	-0.892	227	-177828.453	1.68E+08	4.30E-17	2.12E-32	0.030	
131	-122293.586	3.35E+08	-2.79E-15	2.12E-32	-0.777	228	-181686.688	2.33E+09	-1.01E-16	1.19E-32	0.821	
132	-122807.961	3.11E+08	-2.98E-15	2.12E-32	-0.784	229	-182534.906	2.78E+09	-9.77E-17	1.19E-32	0.770	
133	-123048.047	4.09E+08	-3.28E-15	2.12E-32	-0.795	230	-198086.609	1.86E+08	3.01E-16	2.12E-32	0.228	
134	-123074.883	3.42E+08	-3.13E-15	2.12E-32	-0.796							
135	-123212.969	1.62E+09	-1.66E-17	1.29E-32	0.921							
136	-123228.391	3.16E+08	-3.20E-15	2.12E-32	-0.793	J= 3.5	1	38660.043	2.92E+08	-5.10E-17	7.92E-33	1.164
137	-123241.070	2.85E+08	-3.83E-15	2.12E-32	-0.837	2	42237.031	3.70E+08	-5.78E-17	7.91E-33	1.074	
138	-123343.195	5.67E+08	-1.20E-17	7.40E-33	1.423	3	42658.223	3.34E+08	-5.79E-17	7.48E-33	1.064	
139	-123569.258	2.86E+08	-6.57E-15	2.12E-32	-0.872	4	44446.879	3.47E+08	-5.05E-17	8.59E-33	1.151	
140	-123590.781	3.30E+08	-4.05E-15	2.12E-32	-0.809	5	44753.801	2.84E+08	-5.52E-17	8.10E-33	1.132	
141	-124102.664	3.19E+08	-5.69E-15	2.12E-32	-0.848	6	52582.512	2.07E+05	-6.47E-17	6.19E-33	1.594	
142	-124136.523	2.73E+08	-3.24E-15	2.12E-32	-0.806	7	60956.781	3.93E+08	-5.13E-17	8.12E-33	1.136	
143	-124159.453	2.87E+08	-2.71E-15	2.12E-32	-0.772	8	61156.836	2.95E+08	-5.18E-17	7.85E-33	1.135	
144	-124366.367	2.86E+08	-3.56E-15	2.12E-32	-0.794	9	61726.078	4.95E+08	-5.54E-17	8.24E-33	1.071	
145	-124388.750	2.74E+08	-7.28E-15	2.12E-32	-0.792	10	62065.520	3.30E+08	-5.34E-17	7.89E-33	1.115	
146	-124532.281	2.84E+08	-3.99E-15	2.12E-32	-0.816	11	62322.430	2.93E+08	-5.03E-17	7.98E-33	1.156	
147	-124555.039	2.77E+08	-3.39E-15	2.12E-32	-0.789	12	62171.613	2.23E+08	-6.65E-17	6.69E-33	1.559	
148	-125654.258	1.53E+08	1.88E-15	3.50E-32	0.393	13	62945.039	4.12E+08	-5.20E-17	8.06E-33	1.111	
149	-125838.281	2.50E+08	1.88E-15	3.45E-32	0.386	14	64040.887	4.24E+08	-5.48E-17	8.03E-33	1.082	
150	-127064.086	2.63E+08	-1.82E-15	2.12E-32	-0.739	15	64286.344	3.21E+08	-5.30E-17	7.96E-33	1.119	
151	-127078.898	2.98E+08	-1.03E-15	2.12E-32	-0.662	16	65109.680	3.20E+08	-5.49E-17	8.09E-33	1.115	
152	-127450.141	2.82E+08	-1.64E-15	2.12E-32	-0.712	17	65931.336	4.23E+08	-5.35E-17	8.02E-33	1.106	
153	-127450.555	3.21E+08	-1.58E-15	2.12E-32	-0.704	18	66377.281	5.28E+08	-5.23E-17	8.14E-33	1.106	
154	-127626.914	3.10E+08	-1.76E-15	2.12E-32	-0.728	19	66672.336	3.54E+08	-5.73E-17	7.90E-33	1.075	
155	-127644.211	2.94E+08	-1.34E-15	2.12E-32	-0.682	20	69606.555	4.60E+08	-5.30E-17	8.54E-33	1.108	
156	-128062.180	2.33E+09	-1.11E-16	1.34E-32	0.704	21	70523.703	4.69E+08	-5.72E-17	8.43E-33	1.068	
157	-128494.922	2.20E+09	-1.17E-16	1.18E-32	0.849	22	72352.023	3.61E+08	-5.58E-17	7.76E-33	1.085	
158	-128734.625	8.00E+08	-6.93E-17	7.77E-33	1.373	23	72651.875	3.80E+08	-5.65E-17	7.84E-33	1.083	
159	-128913.078	4.42E+08	-4.32E-17	7.10E-33	1.472	24	73143.289	5.33E+08	-6.36E-17	8.39E-33	1.044	
160	-129492.867	2.03E+09	-2.21E-16	1.22E-32	0.830	25	73016.148	4.41E+08	-5.87E-17	8.00E-33	1.068	
161	-130348.461	2.37E+09	-8.42E-16	1.33E-32	0.752	26	75600.930	5.87E+08	-5.60E-17	8.45E-33	1.065	
162	-130595.398	2.09E+09	-2.86E-15	1.26E-32	0.87							

	LEVEL	SUM A	CSTARK	CWAALS	SUM F		LEVEL	SUM A	CSTARK	CWAALS	SUM F
43	92089.258	1.13E+08	-6.66E-17	6.42E-33	1.616	140	-124366.430	2.84E+08	-3.95E-15	2.12E-32	-0.804
44	92154.164	9.54E+07	-6.35E-17	6.28E-33	1.592	141	-124513.617	2.48E+08	-4.18E-15	2.11E-32	-0.841
45	92602.703	4.76E+08	-5.22E-17	7.81E-33	1.221	142	-124536.813	2.79E+08	-6.99E-15	2.12E-32	-0.798
46	92282.461	4.45E+08	-5.20E-17	7.70E-33	1.303	143	-125750.625	1.55E+08	-1.71E-15	3.48E-32	0.374
47	93129.898	4.33E+08	-5.26E-17	7.64E-33	1.203	144	-127056.320	3.22E+08	-1.38E-15	2.12E-32	-0.728
48	93487.648	4.31E+08	-5.47E-17	7.67E-33	1.214	145	-127069.383	2.93E+08	-9.19E-16	2.12E-32	-0.670
49	93987.453	4.21E+08	-6.56E-17	7.71E-33	1.405	146	-127445.109	2.73E+08	-1.77E-15	2.12E-32	-0.721
50	94073.242	3.25E+08	-7.03E-17	6.80E-33	1.554	147	-127447.398	2.88E+08	-1.58E-15	2.12E-32	-0.716
51	94763.219	1.73E+08	-6.84E-17	6.58E-33	1.503	148	-127607.555	2.38E+08	-2.14E-15	2.12E-32	-0.757
52	95079.641	3.65E+08	-5.65E-17	7.44E-33	1.222	149	-127631.828	2.97E+08	-1.46E-15	2.12E-32	-0.692
53	96217.422	2.22E+08	-7.67E-17	6.63E-33	1.576	150	-127757.313	2.15E+09	-1.05E-16	1.25E-32	0.785
54	96356.961	3.83E+08	-7.06E-17	7.34E-33	1.505	151	-128843.523	5.56E+08	-6.95E-17	7.15E-33	1.460
55	98391.328	3.13E+08	-6.78E-17	6.82E-33	1.577	152	-129060.258	4.88E+08	-4.82E-17	7.39E-33	1.441
56	98535.852	1.99E+08	-7.14E-17	6.62E-33	1.606	153	-129284.469	1.92E+09	-1.10E-16	1.18E-32	0.877
57	98898.711	5.54E+08	-5.21E-17	8.07E-33	1.152	154	-129902.430	2.14E+09	-1.36E-15	1.33E-32	0.766
58	99635.523	5.73E+08	-1.10E-16	7.62E-33	1.282	155	-130263.727	2.25E+09	-2.62E-15	1.29E-32	0.777
59	99808.398	6.33E+08	-1.86E-17	7.74E-33	1.292	156	-130600.727	2.08E+09	-1.07E-15	1.20E-32	0.893
60	102887.117	2.67E+08	-3.93E-15	2.12E-32	-0.828	157	-131684.469	2.37E+09	1.14E-16	1.36E-32	0.827
61	102942.203	2.67E+08	-3.74E-15	2.12E-32	-0.820	158	-131698.828	1.73E+08	1.30E-15	3.52E-32	0.571
62	103183.703	3.50E+08	-1.62E-16	6.90E-33	1.568	159	-132189.891	6.06E+08	2.85E-15	3.04E-32	0.613
63	103340.641	2.51E+08	-5.20E-15	2.12E-32	-0.870	160	-132619.250	1.24E+09	-6.42E-17	8.91E-33	1.240
64	103385.727	3.18E+08	-2.87E-15	2.12E-32	-0.748	161	-132710.563	3.68E+08	-3.44E-15	2.12E-32	-0.838
65	103676.781	2.59E+08	-5.29E-15	2.12E-32	-0.864	162	-132751.266	3.19E+08	-3.67E-15	2.12E-32	-0.842
66	103711.570	2.69E+08	-3.00E-15	2.12E-32	-0.759	163	-132838.078	1.92E+09	-9.13E-17	1.23E-32	0.949
67	103882.680	2.48E+08	-4.05E-15	2.12E-32	-0.829	164	-132884.734	3.47E+08	-3.25E-15	2.12E-32	-0.818
68	103969.758	2.16E+08	-3.95E-15	2.11E-32	-0.825	165	-132897.344	1.56E+08	-1.27E-15	2.11E-32	-0.634
69	104022.891	2.35E+08	-4.63E-15	2.11E-32	-0.847	166	-132919.453	2.13E+08	-1.17E-15	2.12E-32	-0.607
70	-104736.641	4.07E+07	-7.62E-17	6.33E-33	1.630	167	-132937.266	2.29E+08	-1.13E-15	2.12E-32	-0.595
71	105028.602	5.62E+08	6.40E-17	7.48E-33	1.468	168	-132950.281	2.30E+08	-1.11E-15	2.12E-32	-0.566
72	-105190.664	3.65E+07	1.42E-17	6.28E-33	1.608	169	-132964.578	3.93E+08	-2.41E-15	2.12E-32	-0.758
73	-105895.617	1.91E+08	-6.11E-17	6.30E-33	1.549	170	-133069.719	2.03E+08	-1.20E-15	2.12E-32	-0.615
74	-106786.750	4.11E+08	5.72E-17	7.36E-33	1.491	171	-133101.656	2.68E+08	-9.26E-16	2.12E-32	-0.522
75	106863.203	3.48E+08	-5.29E-17	6.52E-33	1.527	172	-135871.250	2.76E+08	-3.29E-15	2.12E-32	-0.816
76	107165.602	3.14E+08	2.48E-17	7.72E-33	1.504	173	-136095.250	5.41E+08	-7.44E-17	7.70E-33	1.433
77	107886.602	3.94E+08	5.29E-17	8.93E-33	1.428	174	-136132.375	2.08E+09	-1.15E-16	1.26E-32	0.871
78	108239.203	2.56E+08	3.64E-16	1.47E-32	1.197	175	-136594.219	2.59E+09	-2.70E-16	1.45E-32	0.707
79	108631.094	7.44E+08	9.20E-16	2.30E-32	0.781	176	-136931.234	6.84E+08	-1.69E-15	1.08E-32	1.416
80	108906.641	7.06E+08	8.39E-16	2.61E-32	0.575	177	-137320.578	5.63E+08	-7.67E-15	1.17E-32	1.393
81	108373.797	3.20E+08	-1.50E-17	9.31E-33	1.471	178	-138065.422	9.97E+07	2.05E-14	3.62E-32	0.845
82	-109466.453	3.10E+08	7.03E-16	2.58E-32	0.565	179	-138593.609	1.98E+08	1.85E-14	3.09E-32	0.836
83	-109602.539	2.18E+08	1.19E-15	2.59E-32	0.721	180	-138733.750	1.07E+09	-4.82E-15	1.94E-32	0.933
84	-109808.133	1.55E+08	1.72E-16	1.12E-32	1.418	181	-139122.047	2.00E+08	-1.62E-15	2.12E-32	-0.684
85	-110039.797	3.71E+08	1.09E-15	2.96E-32	0.508	182	-139129.594	2.04E+08	-1.56E-15	2.12E-32	-0.684
86	-110317.938	3.69E+08	8.91E-16	3.12E-32	0.425	183	-139178.453	1.63E+09	2.44E-14	2.06E-32	0.734
87	-110387.086	2.19E+08	4.06E-16	3.30E-32	0.362	184	-139459.828	5.22E+08	2.02E-14	2.71E-32	0.881
88	-110583.422	1.25E+08	2.93E-17	7.37E-33	1.574	185	-139889.625	3.35E+08	1.57E-14	3.17E-32	0.726
89	-111022.281	3.21E+08	1.99E-16	1.26E-32	1.279	186	-139971.844	4.86E+08	1.63E-14	3.04E-32	0.735
90	-111298.930	1.28E+08	9.46E-16	3.36E-32	0.343	187	-140045.234	6.13E+08	7.67E-15	2.83E-32	0.718
91	-111477.477	1.43E+08	1.02E-15	3.40E-32	0.305	188	-141896.031	1.22E+09	-7.85E-17	1.08E-32	1.215
92	-111732.352	7.89E+08	2.88E-16	2.03E-32	0.685	189	-142277.734	1.04E+09	-4.56E-17	1.07E-32	1.263
93	-111839.625	6.20E+08	4.36E-16	2.03E-32	0.763	190	-145354.828	2.31E+08	-8.35E-16	2.12E-32	-0.510
94	-112293.711	8.36E+08	1.42E-15	2.26E-32	0.680	191	-145435.594	1.66E+08	-8.74E-16	2.12E-32	-0.512
95	-112362.531	7.23E+08	9.52E-16	1.74E-32	0.961	192	-146181.906	2.75E+08	-4.03E-15	3.41E-32	0.747
96	-112568.391	9.43E+08	5.87E-17	1.02E-32	1.233	193	-146507.516	2.65E+08	2.03E-15	3.48E-32	0.677
97	-113099.336	9.96E+08	2.37E-17	1.05E-32	1.193	194	-151064.313	2.27E+09	-8.41E-17	1.26E-32	0.788
98	-113239.383	5.83E+08	-1.03E-16	8.34E-33	1.433	195	-151306.578	2.19E+08	-3.63E-16	2.12E-32	-0.290
99	-113513.125	4.07E+08	1.97E-16	1.09E-32	1.306	196	-151678.375	2.61E+08	-3.98E-16	2.12E-32	-0.308
100	-113842.711	4.56E+08	2.56E-15	1.21E-32	1.337	197	-151708.547	2.50E+08	-3.16E-16	2.12E-32	-0.266
101	-114136.414	4.48E+08	1.05E-15	2.73E-32	0.546	198	-151983.859	1.99E+08	-5.20E-16	2.12E-32	-0.373
102	-114142.633	1.36E+08	1.33E-15	3.18E-32	0.441	199	-152069.875	1.47E+08	-5.16E-16	2.11E-32	-0.363
103	-114614.945	2.11E+08	4.06E-16	1.68E-32	1.078	200	-152115.984	2.65E+08	-3.08E-16	2.12E-32	-0.249
104	-114729.383	2.30E+08	6.25E-16	2.49E-32	0.756	201	-152123.844	1.27E+08	-4.77E-16	2.12E-32	-0.339
105	-115036.016	7.34E+08	-1.23E-16	2.53E-32	0.586	202	-152226.813	1.23E+08	-4.35E-16	2.11E-32	-0.309
106	-115156.148	1.26E+09	2.03E-16	2.04E-32	0.646	203	-152262.969	1.29E+08	-4.31E-16	2.11E-32	-0.307
107	-115197.977	8.54E+08	5.42E-16	2.55E-32	0.428	204	-152695.641	1.29E+08	-4.15E-16	2.11E-32	-0.299
108	-115472.289	3.58E+08	-2.24E-16	1.19E-32	1.305	205	-152720.922	1.44E+08	-3.42E-16	2.12E-32	-0.252
109	-116002.453	7.71E+08	-5.19E-17	8.79E-33	1.328	206	-152838.813	6.67E+08	-2.14E-16	6.50E-33	1.504
110	-116670.789	5.72E+08	2.66E-15	1.00E-32	1.341	207	-158855.672	2.70E+09	-3.12E-16	1.22E-32	0.743
111	-117113.359	2.41E+09	6.45E-16	1.33E-32	0.794	208	-159140.266	3.08E+09	1.32E-14	1.34E-32	0.708
112	-117446.039	4.54E+08	-8.31E-17	7.50E-33	1.394	209	-159191.594	2.83E+08	-1.07E-16	2.12E-32	-0.338
113	-118004.242	4.86E+08	2.30E-18	7.66E-33	1.349	210	-159214.172	2.13E+08	-4.12E-16	2.12E-32	-0.354
114	-118287.016	5.44E+08	4.92E-17	8.58E-33	1.355	211	-160108.078	1.84E+08	-6.08E-17	6.27E-33	1.558
115	-118495.547	1.24E+09	2.75E-16	1.20E-32	1.072	212	-161660.875	6.06E+08	-6.51E-17	6.36E-33	1.490
116	-118615.273	4.51E+08	1.34E-16	8.43E-33	1.443	213	-164994.125	2.17E+08	-2.45E-15	3.52E-32	1.082
117	-118641.742	7.21E+08	4.57E-16	1.15E-32	1.233	214	-165107.141	6.29E+08	-7.51E-17	6.46E-33	1.497
118	-118959.664	6.13E+08	4.24E-17	1.27E-32	1.176	215	-177589.844	1.97E+08	-1.91E-17	2.12E-32	-0.018
119	-119650.703	1.93E+08	-1.24E-15	3.18E-32	0.371	216	-177640.938	3.03E+08	4.76E-17	2.12E-32	0.016
120	-119734.219	1.85E+08	-1.46E-15	3.27E-32	0.269	217	-181619.953	2.30E+09	-9.79E-17	1.19E-32	0.825
121	-119984.297	4.44E+08	1.50E-15	3.19E-32	0.405	218	-198089.750	1.81E+08	-3.00E-16	2.12E-32	0.227
122	-120323.336	2.19E+08	2.47E-15	3.32E-32	0.467						
123	-120418.961	2.79E+08	1.86E-15	3.13E-32	0.502						
124	-122261.875	2.58E+08	-5.13E-15	2.11E-32	-0.887						
125	-122272.961	2.13E+08	-4.73E-17	6.95E-33	1.474						
126	-122282										

PARTIAL SUMS FOR DAMPING CONSTANTS 26.01 D6 4P + D5 4S4P + D6 5P + D6 4F

LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F	
18	72130.391	3.78E+08	-5.66E-17	8.13E-33	107.6	-127446.750	2.73E+08	-1.68E-15	2.12E-32	
19	72650.656	3.73E+08	-5.68E-17	7.78E-33	108	-127538.445	3.25E+09	-6.11E-18	1.27E-32	
20	73091.594	5.08E+08	-7.21E-17	8.32E-33	111	-127594.469	2.04E+08	-2.36E-15	2.11E-32	
21	73751.281	5.80E+08	-5.55E-17	8.53E-33	118	-127620.445	2.74E+08	-1.61E-15	2.12E-32	
22	83871.188	4.02E+08	-4.91E-17	8.08E-33	119	-129085.141	2.07E+09	-1.60E-16	1.21E-32	
23	-85096.297	1.43E+06	-6.20E-17	6.20E-33	120	-129208.391	8.78E+08	-5.73E-17	8.77E-33	
24	-86259.453	6.16E+05	-6.39E-17	6.20E-33	121	-129327.172	1.45E+09	-3.77E-16	1.04E-32	
25	87471.766	4.46E+08	3.53E-16	1.15E-32	122	-130591.531	2.02E+09	-1.91E-17	1.17E-32	
26	88614.523	7.10E+07	6.91E-16	2.26E-32	123	-131930.406	1.58E+08	3.02E-15	3.53E-32	
27	88723.398	2.52E+07	4.73E-16	1.85E-32	124	-132511.203	2.66E+09	-4.26E-17	1.24E-32	
28	90042.781	3.20E+08	-4.95E-17	7.75E-33	125	-132681.063	3.49E+08	-3.87E-15	2.12E-32	
29	90386.531	1.03E+08	1.10E-15	3.45E-32	126	-132708.203	3.52E+08	-3.59E-15	2.12E-32	
30	90067.344	1.25E+08	1.03E-15	3.28E-32	127	-132867.313	2.53E+09	-8.29E-17	1.25E-32	
31	92171.719	4.64E+08	-5.07E-17	7.87E-33	128	-132907.953	1.73E+08	-1.25E-15	2.11E-32	
32	92116.781	1.48E+08	-6.55E-17	6.57E-33	129	-132930.594	2.32E+08	-1.11E-15	2.12E-32	
33	92300.273	8.67E+07	-6.35E-17	6.26E-33	130	-132937.313	1.87E+08	-1.21E-15	2.11E-32	
34	92426.977	4.01E+08	-5.76E-17	7.37E-33	131	-132961.813	3.83E+08	-2.55E-15	2.12E-32	
35	93484.578	4.28E+08	-5.66E-17	7.68E-33	132	-133038.250	3.75E+08	-2.37E-15	2.12E-32	
36	94057.773	5.23E+08	-6.96E-17	7.89E-33	133	-133073.422	1.82E+08	-1.21E-15	2.11E-32	
37	94148.508	3.31E+08	-7.09E-17	6.81E-33	134	-133082.906	1.93E+08	-1.06E-15	2.12E-32	
38	96239.203	1.81E+08	-7.32E-17	6.58E-33	135	-135714.688	2.16E+09	-1.14E-16	1.23E-32	
39	97851.352	3.52E+08	-5.03E-17	7.81E-33	136	-136203.813	1.27E+08	-7.80E-17	6.41E-33	
40	98596.648	1.92E+08	-7.63E-17	6.60E-33	137	-136439.422	2.26E+09	-1.68E-16	1.31E-32	
41	99653.219	1.25E+08	-3.76E-17	7.70E-33	138	-136787.781	7.44E+08	-9.55E-16	1.10E-32	
42	99757.117	6.42E+08	-3.80E-17	7.60E-33	139	-137371.422	5.07E+08	-1.15E-14	1.14E-32	
43	102851.359	2.66E+08	-4.42E-15	2.12E-32	140	-138674.016	1.15E+08	1.24E-14	3.18E-32	
44	102882.367	2.98E+08	-3.24E-15	2.12E-32	141	-138750.797	9.87E+08	-7.35E-15	2.15E-32	
45	102951.500	1.80E+08	-1.41E-16	6.61E-33	142	-138987.203	2.47E+08	-1.55E-15	2.12E-32	
46	103326.406	2.49E+08	-5.19E-15	2.11E-32	143	-139133.828	2.08E+08	-1.76E-15	2.12E-32	
47	103352.680	2.99E+08	-3.09E-15	2.12E-32	144	-139522.672	6.88E+08	1.04E-14	3.13E-32	
48	103680.641	2.31E+08	-5.00E-15	2.11E-32	145	-139885.188	3.63E+08	1.80E-14	3.12E-32	
49	103701.719	2.56E+08	-3.87E-15	2.12E-32	146	-140610.531	6.43E+08	-3.26E-17	6.97E-33	
50	103873.992	2.34E+08	-4.66E-15	2.11E-32	147	-142000.000	1.19E+09	-1.33E-16	1.06E-32	
51	104937.797	5.64E+08	6.65E-17	7.50E-33	148	-145406.297	1.36E+08	-9.32E-16	2.11E-32	
52	-105119.016	2.50E+07	-6.32E-17	6.27E-33	149	-145436.016	1.57E+08	-8.83E-16	2.12E-32	
53	-105386.328	4.16E+07	-6.12E-17	6.33E-33	150	-145842.906	6.62E+07	4.33E-14	3.61E-32	
54	-105943.180	1.88E+08	-6.19E-17	6.27E-33	151	-146509.766	2.69E+08	2.42E-15	3.43E-32	
55	-107044.367	4.20E+08	-6.32E-17	6.34E-33	152	-151693.469	1.37E+08	-4.51E-16	2.12E-32	
56	107006.352	3.65E+08	-3.42E-16	7.12E-33	153	-151886.141	1.03E+08	-5.78E-16	2.11E-32	
57	-107386.570	2.68E+08	-4.81E-17	6.92E-33	154	-152073.188	1.50E+08	-5.24E-16	2.11E-32	
58	107964.703	2.97E+08	-5.94E-17	7.19E-33	155	-152128.594	1.10E+08	-4.58E-16	2.11E-32	
59	108570.563	6.69E+08	1.00E-15	2.52E-32	156	-152134.188	2.09E+08	-3.99E-16	2.12E-32	
60	108868.977	6.88E+08	7.73E-16	2.59E-32	157	-152188.328	1.12E+08	-4.70E-16	2.11E-32	
61	-109382.672	3.41E+08	3.64E-15	9.19E-33	158	-152264.750	1.32E+08	-4.43E-16	2.11E-32	
62	-109515.625	2.02E+08	1.05E-15	2.87E-32	159	-152660.594	1.58E+08	-3.58E-16	2.12E-32	
63	-109675.461	8.34E+07	1.25E-15	3.46E-32	160	-152715.219	9.96E+07	-4.15E-16	2.11E-32	
64	-110018.000	4.36E+08	1.15E-15	3.06E-32	161	-157703.609	1.96E+09	-9.28E-17	1.18E-32	
65	-110059.445	1.35E+08	7.54E-16	3.21E-32	162	-159011.063	6.27E+09	6.14E-16	1.21E-32	
66	-110342.328	1.81E+08	2.37E-16	9.90E-33	163	-159214.750	2.09E+08	-3.23E-16	2.12E-32	
67	-110890.930	1.49E+08	1.57E-15	3.52E-32	164	-159227.000	1.59E+08	-4.64E-16	2.12E-32	
68	-111019.047	3.67E+08	5.20E-17	1.22E-32	165	-160371.625	1.58E+08	-6.49E-17	6.24E-33	
69	-111178.750	1.18E+08	1.24E-15	3.39E-32	166	-177592.453	1.92E+08	-2.02E-17	2.12E-32	
70	-111297.813	1.68E+08	-1.03E-19	8.51E-33	167	-177852.891	7.01E+07	1.51E-18	2.11E-32	
71	-111699.648	4.49E+08	5.01E-16	2.20E-32						
72	-111844.547	9.17E+08	1.46E-16	1.60E-32	J= 5.5	1	41968.047	3.82E+08	-5.88E-17	7.91E-33
73	-112141.578	9.32E+08	1.18E-15	2.22E-32	2	60625.449	4.29E+08	-5.12E-17	8.16E-33	
74	-112263.844	5.68E+08	1.11E-15	1.85E-32	3	60887.598	3.10E+08	-5.37E-17	7.90E-33	
75	-112634.070	1.30E+09	2.13E-17	1.02E-32	4	61587.215	3.21E+08	-5.50E-17	7.90E-33	
76	-113267.750	3.52E+08	-2.78E-16	1.21E-32	5	62662.242	2.72E+08	-5.46E-17	8.04E-33	
77	-113818.734	6.07E+08	4.12E-16	2.13E-32	6	63876.316	4.45E+08	-5.71E-17	7.97E-33	
78	-113991.359	1.20E+08	1.42E-15	3.39E-32	7	65580.039	3.66E+08	-5.48E-17	8.01E-33	
79	-114152.719	4.58E+08	9.20E-16	1.86E-32	8	65363.594	3.39E+08	-5.15E-17	8.12E-33	
80	-114330.430	1.05E+08	1.44E-15	3.16E-32	9	66463.531	3.62E+08	-5.85E-17	7.92E-33	
81	-114624.547	1.90E+08	6.28E-16	2.35E-32	10	67516.328	3.17E+08	-7.00E-17	7.90E-33	
82	-114709.250	2.76E+08	2.95E-16	1.65E-32	11	72261.727	4.01E+08	-5.65E-17	8.17E-33	
83	-115118.000	8.75E+08	5.21E-16	2.54E-32	12	73603.500	5.33E+08	-5.58E-17	8.39E-33	
84	-115368.578	4.18E+08	-6.79E-17	9.80E-33	13	73969.766	4.13E+08	-5.77E-17	7.95E-33	
85	-115955.445	7.74E+08	-6.87E-17	8.52E-33	14	-85145.195	1.44E+06	-6.23E-17	6.20E-33	
86	-116662.219	5.96E+08	-2.23E-17	1.03E-32	15	-86389.094	7.95E+05	-6.39E-17	6.20E-33	
87	-116756.320	6.23E+08	2.16E-15	1.02E-32	16	87340.984	4.77E+08	3.49E-16	1.17E-32	
88	-118161.570	6.59E+08	-2.80E-18	8.31E-33	17	90211.703	2.81E+08	1.33E-16	1.32E-32	
89	-118225.648	2.43E+08	-3.48E-17	7.17E-33	18	89924.172	1.99E+08	5.97E-16	2.58E-32	
90	-118391.664	1.32E+09	1.13E-16	1.11E-32	19	92166.602	1.17E+08	-6.74E-17	6.43E-33	
91	-118638.656	3.33E+08	-6.88E-17	7.06E-33	20	92432.133	8.24E+07	-6.38E-17	6.25E-33	
92	-119421.461	9.59E+07	1.15E-15	3.51E-32	21	94189.883	3.31E+08	-7.12E-17	6.81E-33	
93	-119691.750	1.44E+08	1.48E-15	3.41E-32	22	96062.063	1.86E+08	-7.35E-17	6.59E-33	
94	-120097.180	3.66E+08	1.55E-15	3.27E-32	23	98278.773	3.53E+08	-5.13E-17	7.80E-33	
95	-120133.734	1.77E+08	1.54E-15	3.44E-32	24	102340.297	2.40E+07	-6.89E-17	6.25E-33	
96	-122250.570	2.45E+08	-4.24E-15	2.11E-32	25	102831.320	2.50E+08	-4.97E-15	2.11E-32	
97	-122266.891	2.73E+08	-4.92E-15	2.12E-32	26	102893.383	3.58E+08	-2.43E-15	2.12E-32	
98	-122339.609	1.97E+08	-6.21E-17	6.92E-33	27	102980.297	1.60E+08	-1.43E-16	6.57E-33	
99	-122853.047	3.60E+08	-3.52E-15	2.12E-32	28	103325.953	2.48E+08	-5.15E-15	2.11E-32	
100	-122902.438	3.22E+08	-2.92E-15	2.12E-32	29	103420.156	2.38E+08	-3.31E-15	2.12E-32	
101	-123102.336	3.14E+08	-3.40E-15	2.12E-32	30	103691.047	2.31E+08	-4.70E-15	2.11E-32	
102	-123117.086	2.77E+08	-3.64E-15	2.12E-32	31	104816.797	5.83E+08	1.55E-16	7.56E-33	
103	-123249.164	2.32E+08	-4.25E-15	2.11E-32	32	-105316.859	1.20E+07	-5.90E-17	6.22E-33	
104	-123286.461	3.54E+08	-2.68E-15	2.12E-32	33	-106066.609	1.30E+08	-6.41E-17	6.25E-33	
105	-123567.398	2.81E+08	-3.80E-15	2.12E-32	34	106690.172	3.83E+08	5.12E-17	7.28E-33	
106	-124101.313	2.79E+08	-3.48E-15	2.12E-32	35	-107577.094	1.72E+08	-5.17E-17	6.95E-33	
107	-124118.156	3.01E+08	-3.36E-15	2.12E-32	36	108483.867	6.02E+08	1.07E-15	2.72E-32	
108	-124337.344	2.48E+08	-3.82E-15	2.12E-32	37	108809.313	6.24E+08	7.28E-16	2.66E-32	
109	-124355.414	3.18E+08	-3.56E-15	2.12E-32	38	109271.711	3.97E+08	2.03E-16	1.14E-32	
110	-124531.570	2.75E+08	-7.15E-15	2.12E-32	39	-109454.313	2.37E+08	1.03E-15	2.70E-32	
111	-124544.195	2.63E+08	-3.77E-15	2.12E-32	40	-109553.688	2.69E+08	7.38E-16	2.34E-32	
112	-127048.695	3.00E+08	-1.48E-15	2.12E-32	41	-109641.883	1.84E+08	6.03E-16	2.18E-32	
113	-127063.516	2.94E+08	-9.21E-16	2.12E-32	42	-110090.164</				

LEVEL	SUM A	CSTARK	CWAALS	SUM F	LEVEL	SUM A	CSTARK	CWAALS	SUM F			
44	-111027.227	4.89E+08	-1.63E-15	1.34E-32	1.222	31	-122927.875	2.87E+08	-3.10E-15	2.12E-32	-0.777	
45	-111423.391	3.40E+08	4.56E-17	1.09E-32	1.281	32	-123087.883	2.27E+08	-3.93E-15	2.11E-32	-0.848	
46	-111642.945	3.38E+08	4.26E-16	2.10E-32	0.779	33	-123116.195	2.62E+08	-3.61E-15	2.12E-32	-0.813	
47	-111909.680	8.69E+08	7.73E-17	1.46E-32	0.942	34	-123210.586	2.26E+08	-4.22E-15	2.11E-32	-0.861	
48	-112145.313	5.03E+08	1.05E-15	1.93E-32	0.952	35	-123252.422	2.23E+08	-3.67E-15	2.11E-32	-0.831	
49	-113668.359	6.52E+07	1.43E-15	3.54E-32	0.340	36	-123832.281	1.55E+09	-9.64E-17	1.20E-32	0.915	
50	-114126.664	7.73E+07	1.44E-15	3.36E-32	0.380	37	-124099.117	2.25E+08	-4.07E-15	2.11E-32	-0.853	
51	-114606.469	2.21E+08	6.86E-16	8.88E-33	1.429	38	-124136.055	2.14E+08	-3.29E-15	2.11E-32	-0.815	
52	-114904.383	9.13E+08	4.82E-16	2.46E-32	0.444	39	-124377.516	2.19E+08	4.08E-15	2.11E-32	-0.836	
53	-115052.727	2.61E+08	2.14E-17	7.60E-33	1.505	40	-126227.719	2.38E+09	-5.94E-17	1.33E-32	0.646	
54	-115702.914	8.63E+08	-4.45E-17	8.09E-33	1.337	41	-127032.664	2.00E+08	-2.27E-15	2.11E-32	-0.771	
55	-116710.352	6.45E+08	-1.74E-16	1.03E-32	1.349	42	-127042.844	2.41E+08	-1.62E-15	2.12E-32	-0.713	
56	-118415.094	1.83E+08	-5.80E-17	6.60E-33	1.541	43	-127425.891	2.17E+08	-2.15E-15	2.12E-32	-0.755	
57	-118738.383	1.10E+08	-7.02E-17	6.45E-33	1.513	44	-127436.352	1.91E+08	-2.18E-15	2.11E-32	-0.758	
58	-119544.383	9.99E+07	1.12E-15	3.52E-32	0.146	45	-127629.328	1.85E+08	-2.14E-15	2.11E-32	-0.748	
59	-119813.672	1.72E+08	1.43E-15	3.48E-32	0.234	46	-132693.219	2.38E+08	-5.61E-15	2.11E-32	-0.891	
60	-120027.742	1.82E+08	1.65E-15	3.41E-32	0.263	47	-132748.453	2.33E+08	-5.40E-15	2.11E-32	-0.885	
61	-122263.180	3.17E+08	-4.50E-15	2.12E-32	-0.865	48	-132758.266	1.71E+09	-9.18E-17	1.18E-32	0.899	
62	-122876.133	2.62E+08	-3.92E-15	2.12E-32	-0.850	49	-133043.500	1.55E+08	-1.29E-15	2.11E-32	-0.637	
63	-122930.453	3.19E+08	-2.93E-15	2.12E-32	-0.763	50	-133088.734	2.87E+08	-2.88E-15	2.12E-32	-0.802	
64	-123117.727	2.59E+08	-3.78E-15	2.12E-32	-0.827	51	-133094.484	2.11E+08	-3.61E-15	2.11E-32	-0.831	
65	-123120.727	3.03E+08	-3.34E-15	2.12E-32	-0.789	52	-136608.094	6.58E+07	-6.48E-17	6.21E-33	1.590	
66	-123248.422	2.28E+08	-4.21E-15	2.11E-32	-0.863	53	-145190.375	2.13E+08	-9.62E-16	2.12E-32	-0.559	
67	-123283.461	3.26E+08	-2.85E-15	2.12E-32	-0.746	54	-151942.438	1.82E+08	-5.08E-16	2.12E-32	-0.367	
68	-124099.438	2.79E+08	-3.88E-15	2.12E-32	-0.833	55	-151979.078	2.23E+08	-4.54E-16	2.12E-32	-0.348	
69	-124122.867	3.15E+08	-3.07E-15	2.12E-32	-0.774	56	-152170.109	9.12E+07	-5.18E-16	2.11E-32	-0.361	
70	-124344.344	2.62E+08	-4.01E-15	2.12E-32	-0.821	57	-159146.031	1.01E+08	-5.81E-16	2.11E-32	-0.400	
71	-124377.672	2.32E+08	-3.42E-15	2.11E-32	-0.820	58	-159213.031	1.96E+08	-4.05E-16	2.12E-32	-0.369	
72	-124546.023	2.24E+08	-3.25E-15	2.11E-32	-0.819							
73	-126122.508	2.39E+09	4.75E-18	1.33E-32	0.644	J= 7.5	1	61347.613	3.42E+08	-5.63E-17	8.00E-33	1.090
74	-127040.875	2.46E+08	-1.86E-15	2.12E-32	-0.753	2	71432.680	3.05E+08	-5.43E-17	8.02E-33	1.111	
75	-127056.680	2.78E+08	-1.04E-15	2.12E-32	-0.696	3	-86637.156	9.95E+03	-6.45E-17	6.19E-33	1.599	
76	-127429.742	2.35E+08	-2.02E-15	2.12E-32	-0.740	4	102851.203	4.67E+07	-9.25E-17	6.30E-33	1.616	
77	-127437.305	2.30E+08	-1.96E-15	2.12E-32	-0.747	5	103040.320	2.28E+08	-4.32E-15	2.11E-32	-0.868	
78	-127582.563	3.24E+09	-5.35E-17	1.28E-32	0.571	6	103232.102	1.41E+08	-2.77E-16	6.55E-33	1.592	
79	-127609.023	2.45E+08	-1.84E-15	2.12E-32	-0.722	7	106524.398	7.86E+07	-7.32E-17	6.36E-33	1.624	
80	-127626.156	1.95E+08	-2.34E-15	2.11E-32	-0.772	8	-109443.672	5.05E+07	1.16E-15	3.60E-32	0.138	
81	-129225.547	1.95E+09	-1.64E-16	1.19E-32	0.863	9	-111973.570	7.44E+07	-6.34E-17	6.33E-33	1.592	
82	-132451.984	1.85E+09	-6.83E-17	1.19E-32	0.870	10	-119510.945	5.48E+07	1.20E-15	3.61E-32	0.167	
83	-132678.969	3.33E+08	-4.11E-15	2.12E-32	-0.861	11	-122878.641	2.15E+08	-3.65E-15	2.11E-32	-0.837	
84	-132691.172	2.42E+08	-5.54E-15	2.11E-32	-0.889	12	-122901.953	2.28E+08	-4.12E-15	2.11E-32	-0.864	
85	-132926.453	1.83E+08	-1.23E-15	2.11E-32	-0.616	13	-123053.609	2.22E+08	-3.98E-15	2.11E-32	-0.852	
86	-133034.797	3.48E+08	-2.40E-15	2.12E-32	-0.776	14	-123087.922	2.22E+08	-4.00E-15	2.11E-32	-0.853	
87	-133057.219	2.46E+08	-1.17E-15	2.12E-32	-0.581	15	-123213.523	2.20E+08	-3.97E-15	2.11E-32	-0.850	
88	-133074.844	2.03E+08	-1.21E-15	2.12E-32	-0.609	16	-123916.242	1.54E+09	-9.63E-17	1.20E-32	0.918	
89	-133089.453	2.92E+08	-2.85E-15	2.12E-32	-0.798	17	-124137.508	2.19E+08	-3.54E-15	2.11E-32	-0.844	
90	-133144.391	2.16E+09	-1.22E-16	1.22E-32	0.815	18	-127027.734	1.97E+08	-2.30E-15	2.11E-32	-0.774	
91	-135876.516	2.08E+09	-1.23E-16	1.19E-32	0.823	19	-127049.648	1.83E+08	-2.03E-15	2.11E-32	-0.740	
92	-136367.766	9.81E+07	-7.76E-17	6.31E-33	1.588	20	-127439.211	1.91E+08	-2.25E-15	2.11E-32	-0.764	
93	-137420.922	4.66E+08	-8.53E-14	1.11E-32	1.416	21	-132751.609	2.33E+08	-5.42E-15	2.11E-32	-0.885	
94	-138719.641	1.13E+08	1.09E-14	3.16E-32	0.830	22	-133025.438	2.18E+08	-3.86E-15	2.11E-32	-0.845	
95	-138987.141	2.27E+08	-1.65E-15	2.12E-32	-0.716	23	-133096.156	2.11E+08	-3.61E-15	2.11E-32	-0.831	
96	-140997.547	5.88E+08	-6.77E-17	6.62E-33	1.517	24	-151929.891	1.02E+08	-5.78E-16	2.11E-32	-0.404	
97	-145184.031	1.93E+08	-9.84E-16	2.12E-32	-0.566	25	-159149.203	1.00E+08	-5.82E-16	2.11E-32	-0.400	
98	-145409.688	1.40E+08	-9.30E-16	2.11E-32	-0.529							
99	-145989.188	6.40E+07	1.20E-14	3.61E-32	0.700	J= 8.5	1	-103179.859	0.00E+00	-6.37E-17	6.19E-33	1.619
100	-151903.156	1.83E+08	-5.01E-16	2.12E-32	-0.365	2	-122815.602	2.22E+08	-3.84E-15	2.11E-32	-0.852	
101	-151979.547	2.32E+08	-4.70E-16	2.12E-32	-0.347	3	-122881.242	2.28E+08	-4.17E-15	2.11E-32	-0.865	
102	-152121.484	1.46E+08	-5.13E-16	2.11E-32	-0.365	4	-123056.797	2.26E+08	-4.19E-15	2.11E-32	-0.862	
103	-152171.719	1.15E+08	-4.51E-16	2.11E-32	-0.319	5	-127052.797	1.95E+08	-2.26E-15	2.11E-32	-0.770	
104	-152189.828	1.05E+08	-4.76E-16	2.11E-32	-0.336	6	-132899.984	2.32E+08	-4.36E-15	2.11E-32	-0.875	
105	-152652.047	9.76E+07	-4.47E-16	2.11E-32	-0.316	7	-133027.953	2.18E+08	-3.87E-15	2.11E-32	-0.846	
106	-157626.578	1.96E+09	-9.55E-17	1.18E-32	0.875							
107	-159211.594	2.06E+08	-3.94E-16	2.12E-32	-0.366	J= 9.5	1	-122818.789	2.33E+08	-4.35E-15	2.11E-32	-0.875
108	-159228.281	1.53E+08	-4.65E-16	2.12E-32	-0.371	2	-132903.172	2.32E+08	-4.37E-15	2.11E-32	-0.875	
109	-177856.063	6.84E+07	1.12E-18	2.11E-32	0.010							
J= 6.5	1	60837.570	3.09E+08	-5.40E-17	7.90E-33	1.117						
	2	61527.617	3.22E+08	-5.53E-17	7.90E-33	1.099						
	3	62293.164	2.72E+08	-5.44E-17	8.04E-33	1.138						
	4	66411.688	3.65E+08	-5.80E-17	7.90E-33	1.066						
	5	70986.680	2.95E+08	-5.31E-17	8.02E-33	1.126						
	6	73966.828	4.04E+08	-5.79E-17	7.92E-33	1.040						
	7	-85217.414	5.79E+04	-6.31E-17	6.19E-33	1.636						
	8	-86519.289	1.22E+05	-6.44E-17	6.19E-33	1.602						
	9	92250.211	1.22E+08	-6.80E-17	6.45E-33	1.611						
	10	102489.898	3.85E+07	-7.58E-17	6.28E-33	1.626						
	11	102840.250	2.50E+08	-4.92E-15	2.11E-32	-0.902						
	12	103019.672	2.00E+08	-3.26E-15	2.11E-32	-0.808						
	13	103120.898	1.50E+08	-1.79E-16	6.56E-33	1.593						
	14	103421.180	2.25E+08	-4.75E-15	2.11E-32	-0.867						
	15	104659.258	6.03E+08	1.15E-16	7.62E-33	1.464						
	16	-105471.836	5.06E+06	-6.38E-17	6.21E-33	1.589						
	17	106183.102	7.69E+07	-7.31E-17	6.36E-33	1.635						
	18	108729.156	5.14E+08	7.98E-16	2.83E-32	0.504						
	19	109149.680	3.73E+08	9.51E-16	1.38E-32	1.203						
	20	-109459.273	1.62E+08	1.02E-15	3.13E-32	0.368						
	21	-109730.258	1.32E+08	1.15E-15	2.85E-32	0.530						
	22	-110066.742	4.05E+08	2.69E-16	1.56E-32	1.072						
	23	-111577.180	5.42E+08	-8.79E-19	1.10E-32	1.213						
	24	-111959.750	6.14E+08	-1.91E-17	1.07E-32	1.217						
	25	-113701.781	5.03E+07	1.37E-15	3.51E-32	0.286						
	26	-114642.086	2.36E+08	3.65E-16	7.58E-33	1.481						

Table 7. Selected lines sorted by wavelength.

The complete transition array has been sorted by wavelength and edited down to 431,933 lines, which are available on magnetic tape from the author. An unedited output listing of the complete transition array is also available from the author. Lines with the following properties have been omitted: a) $\log gf$ less than -9.99 ; b) $\log gf$ less than -5.00 when the lower energy is greater than $30,000 \text{ cm}^{-1}$; c) lower energy level greater than the ionization energy; and d) wavelength greater than 9999.9999 nm . The 22,547 lines between observed energy levels are listed here. Vacuum wavelengths are given below 200 nm , air above.

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
89.6506	-5.981	384.790	3.5	D6S (5D)6D	111929.000	2.5	290DD	93.6693	-4.276	1872.567	4.5	D7 (5D)4F	108631.090	3.5	4SP(3G)4G
89.8785	-6.002	667.683	2.5	D6S (5D)6D	111929.000	2.5	290DD	93.7225	-2.813	1872.567	4.5	D7 (5D)4F	108570.560	4.5	4SP(3G)4G
90.0362	-6.974	862.613	1.5	D6S (5D)6D	111929.000	2.5	290DD	93.7225	-2.813	0.000	4.5	D6S (5D)6D	106690.170	5.5	4SP(3I)2H
91.3251	-4.660	2430.097	3.5	D7 (5D)4F	111929.000	2.5	290DD	93.7536	-3.696	3117.461	1.5	D7 (5D)4F	109780.000	1.5	280DD
91.5150	-5.090	0.000	4.5	D6S (5D)6D	109271.710	5.5	4SP(3I)2I	93.7897	-4.777	384.790	3.5	D6S (5D)6D	107006.350	4.5	4SP(3I)2H
91.6487	-4.971	667.683	2.5	D6S (5D)6D	109780.000	1.5	280DD	93.7987	-1.549	1872.567	4.5	D7 (5D)4F	108483.870	5.5	4SP(3G)4G
91.6665	-3.803	2837.950	2.5	D7 (5D)4F	111929.000	2.5	290DD	93.8716	-1.228	667.683	2.5	D6S (5D)6D	107196.200	2.5	180DD
91.8127	-5.112	862.613	1.5	D6S (5D)6D	109780.000	1.5	280DD	93.8956	-5.314	1872.567	4.5	D7 (5D)4F	108373.800	3.5	260DD
91.8218	-6.557	0.000	4.5	D6S (5D)6D	108906.640	3.5	4SP(3G)4H	93.8986	-1.953	667.683	2.5	D6S (5D)6D	107165.600	3.5	170DD
91.8535	-5.232	0.000	4.5	D6S (5D)6D	108868.980	4.5	4SP(3G)4H	93.9158	-0.741	384.790	3.5	D6S (5D)6D	106863.200	3.5	160DD
91.9020	-3.028	3117.461	1.5	D7 (5D)4F	111929.000	2.5	290DD	93.9174	-3.452	2430.097	3.5	D7 (5D)4F	108906.640	3.5	4SP(3G)4H
91.9039	-4.795	0.000	4.5	D6S (5D)6D	108809.310	5.5	4SP(3G)4H	93.9506	-2.416	2430.097	3.5	D7 (5D)4F	108868.980	4.5	4SP(3G)4H
91.9093	-4.997	977.053	0.5	D6S (5D)6D	109780.000	1.5	280DD	94.0144	-2.192	1872.567	4.5	D7 (5D)4F	108239.200	3.5	240DD
92.0547	-6.032	0.000	4.5	D6S (5D)6D	108631.090	3.5	4SP(3G)4G	94.0437	-1.297	862.613	1.5	D6S (5D)6D	107196.200	2.5	180DD
92.1060	-4.945	0.000	4.5	D6S (5D)6D	108570.560	4.5	4SP(3G)4G	94.1611	-2.818	2430.097	3.5	D7 (5D)4F	108631.090	3.5	4SP(3G)4G
92.1473	-5.877	384.790	3.5	D6S (5D)6D	108906.640	3.5	4SP(3G)4G	94.1627	-5.033	2430.097	3.5	D7 (5D)4F	108629.250	2.5	4SP(3G)4G
92.1793	-5.750	384.790	3.5	D6S (5D)6D	108868.980	4.5	4SP(3G)4H	94.1659	-1.291	667.683	2.5	D6S (5D)6D	108663.200	3.5	160DD
92.1796	-5.335	0.000	4.5	D6S (5D)6D	108483.870	5.5	4SP(3G)4G	94.2148	-1.816	2430.097	3.5	D7 (5D)4F	108570.560	4.5	4SP(3G)4G
92.2732	-9.789	0.000	4.5	D6S (5D)6D	108373.800	3.5	260DD	94.2577	-3.346	1872.567	4.5	D7 (5D)4F	107964.700	4.5	210DD
92.3819	-5.935	384.790	3.5	D6S (5D)6D	108631.090	3.5	4SP(3G)4G	94.2785	-2.925	2837.950	2.5	D7 (5D)4F	108906.640	3.5	4SP(3G)4H
92.3885	-5.995	384.790	3.5	D6S (5D)6D	108629.250	2.5	4SP(3G)4G	94.3271	-2.898	1872.567	4.5	D7 (5D)4F	107886.600	3.5	200DD
92.3880	-2.770	0.000	4.5	D6S (5D)6D	108239.200	3.5	240DD	94.3898	-3.725	2430.097	3.5	D7 (5D)4F	108373.800	3.5	260DD
92.3882	-7.551	667.683	2.5	D6S (5D)6D	108906.640	3.5	4SP(3G)4H	94.3912	-2.949	2837.950	2.5	D7 (5D)4F	108780.000	1.5	270DD
92.4336	-5.383	384.790	3.5	D6S (5D)6D	108570.560	4.5	4SP(3G)4G	94.5098	-2.883	2430.097	3.5	D7 (5D)4F	108239.200	3.5	240DD
92.4964	-2.749	667.683	2.5	D6S (5D)6D	108780.000	1.5	270DD	94.5241	-2.404	2837.950	2.5	D7 (5D)4F	108631.090	3.5	4SP(3G)4G
92.6020	-5.930	384.790	3.5	D6S (5D)6D	108373.800	3.5	260DD	94.5257	-2.878	2837.950	2.5	D7 (5D)4F	108629.250	2.5	4SP(3G)4G
92.6229	-5.717	0.000	4.5	D6S (5D)6D	107964.700	4.5	210DD	94.6069	-2.708	2430.097	3.5	D7 (5D)4F	108130.600	2.5	220DD
92.6240	-4.994	667.683	2.5	D6S (5D)6D	108631.090	3.5	4SP(3G)4G	94.6409	-3.202	3117.461	1.5	D7 (5D)4F	108780.000	1.5	270DD
92.6256	-5.675	667.683	2.5	D6S (5D)6D	108629.250	2.5	4SP(3G)4G	94.7545	-3.302	2837.950	2.5	D7 (5D)4F	108373.800	3.5	260DD
92.6635	-3.968	862.613	1.5	D6S (5D)6D	108780.000	1.5	270DD	94.7557	-5.851	2430.097	3.5	D7 (5D)4F	107964.700	4.5	210DD
92.6899	-3.612	0.000	4.5	D6S (5D)6D	107886.600	3.5	200DD	94.7564	-3.297	2837.950	2.5	D7 (5D)4F	108371.700	1.5	250DD
92.7176	-2.347	384.790	3.5	D6S (5D)6D	108239.200	3.5	240DD	94.7761	-2.165	3117.461	1.5	D7 (5D)4F	108629.250	2.5	4SP(3G)4G
92.7618	-2.915	977.053	0.5	D6S (5D)6D	108780.000	1.5	270DD	94.8258	-4.100	2430.097	3.5	D7 (5D)4F	107886.600	3.5	200DD
92.7931	-6.937	862.613	1.5	D6S (5D)6D	108629.250	2.5	4SP(3G)4G	94.8755	-4.037	2837.950	2.5	D7 (5D)4F	108239.200	3.5	240DD
92.8110	-2.774	384.790	3.5	D6S (5D)6D	108130.600	2.5	220DD	94.9184	-3.831	2837.950	2.5	D7 (5D)4F	108191.600	1.5	230DD
92.8452	-5.137	667.683	2.5	D6S (5D)6D	108373.800	3.5	260DD	94.9730	-3.942	1872.567	4.5	D7 (5D)4F	107165.600	3.5	170DD
92.8470	-3.294	667.683	2.5	D6S (5D)6D	108371.700	1.5	250DD	94.9734	-4.139	2837.950	2.5	D7 (5D)4F	108130.600	2.5	220DD
92.9542	-4.218	384.790	3.5	D6S (5D)6D	107964.700	4.5	210DD	95.0080	-5.125	3117.461	1.5	D7 (5D)4F	108371.700	1.5	250DD
92.9614	-2.739	667.683	2.5	D6S (5D)6D	108239.200	3.5	240DD	95.1169	-5.796	1872.567	4.5	D7 (5D)4F	107006.350	4.5	4SP(3I)2H
93.0026	-2.859	667.683	2.5	D6S (5D)6D	108191.600	1.5	230DD	95.1709	-4.588	3117.461	1.5	D7 (5D)4F	107006.350	4.5	4SP(3I)2H
93.0154	-4.092	862.613	1.5	D6S (5D)6D	108371.700	1.5	250DD	95.1940	-5.377	2837.950	2.5	D7 (5D)4F	108191.600	1.5	230DD
93.0217	-2.924	384.790	3.5	D6S (5D)6D	107886.600	3.5	200DD	95.2122	-7.391	0.000	4.5	D6S (5D)6D	105028.600	3.5	4SP(3I)4H
93.0554	-2.836	667.683	2.5	D6S (5D)6D	108130.600	2.5	220DD	95.2262	-6.443	3117.461	1.5	D7 (5D)4F	108130.600	2.5	220DD
93.1106	-3.682	1872.567	4.5	D7 (5D)4F	109271.710	5.5	4SP(3I)2I	95.2466	-6.256	1872.567	4.5	D7 (5D)4F	106863.200	3.5	160DD
93.1145	-3.705	977.053	0.5	D6S (5D)6D	108371.700	1.5	250DD	95.2945	-5.850	0.000	4.5	D6S (5D)6D	104937.800	4.5	4SP(3I)4H
93.1715	-4.145	862.613	1.5	D6S (5D)6D	108191.600	1.5	230DD	95.4038	-4.554	1872.567	4.5	D7 (5D)4F	106690.170	5.5	4SP(3I)2H
93.2245	-3.089	667.683	2.5	D6S (5D)6D	108130.600	2.5	220DD	95.4046	-4.504	0.000	4.5	D6S (5D)6D	104816.800	2.5	4SP(3I)4H
93.2671	-4.352	667.683	2.5	D6S (5D)6D	107886.600	3.5	200DD	95.4507	-5.193	2430.097	3.5	D7 (5D)4F	107196.200	2.5	180DD
93.2709	-3.146	977.053	0.5	D6S (5D)6D	108191.600	1.5	230DD	95.4786	-4.955	2430.097	3.5	D7 (5D)4F	107165.600	3.5	170DD
93.3135	-1.776	0.000	4.5	D6S (5D)6D	107165.600	3.5	170DD	95.5623	-5.397	384.790	3.5	D6S (5D)6D	105028.600	3.5	4SP(3I)4H
93.4282	-4.874	1872.567	4.5	D7 (5D)4F	108906.640	3.5	4SP(3G)4H	95.6240	-5.220	2430.097	3.5	D7 (5D)4F	107006.350	4.5	4SP(3I)2H
93.4524	-4.458	0.000	4.5	D6S (5D)6D	107006.350	4.5	4SP(3I)2H	95.6453	-4.345	384.790	3.5	D6S (5D)6D	104937.800	4.5	4SP(3I)4H
93.4611	-3.193	1872.567	4.5	D7 (5D)4F	108868.980	4.5	4SP(3G)4H	95.7551	-4.592	2430.097	3.5	D7 (5D)4F	106863.200	3.5	160DD
93.5086	-2.824	2837.950	2.5	D7 (5D)4F	109780.000	1.5	280DD	95.8213	-4.585	667.683	2.5	D6S (5D)6D	105028.600	3.5	4SP(3I)4H
93.5132	-2.142	1872.567	4.5	D7 (5D)4F	108809.310	5.5	4SP(3G)4H	95.8238	-4.253	2837.950	2.5	D7 (5D)4F	107196.200	2.5	180DD
93.5776	-1.171	0.000	4.5	D6S (5D)6D	108663.200	3.5	160DD	95.8519	-5.235	2837.950	2.5	D7 (5D)4F	107165.600	3.5	170DD
93.6230	-1.054	384.790	3.5	D6S (5D)6D	107196.200	2.5	180DD	96.0811	-5.333	3117.461	1.5	D7 (5D)4F	107196.200	2.5	180DD
93.6498	-1.390	384.790	3.5	D6S (5D)6D	107165.600	3.5	170DD	96.1305	-4.916	2837.950	2.5	D7 (5D)4F	106863.200	3.5	160DD

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
96.1327	-8.276	0.000	4.5	D6S (5D)6D	104022.890	3.5	4F(5D)0[3]	97.1352	-5.769	384.790	3.5	D6S (5D)6D
96.1782	-4.078	7955.299	3.5	D6S (5D)4D	111929.000	2.5	290DD	97.1400	-6.011	1872.567	4.5	D7 (5D)4F
96.1818	-9.232	0.000	4.5	D6S (5D)6D	103969.760	3.5	4F(5D)1[3]	97.1419	-5.997	0.000	4.5	D6S (5D)6D
96.2624	-8.853	0.000	4.5	D6S (5D)6D	103882.680	3.5	4F(5D)1[4]	97.1424	-7.496	384.790	3.5	D6S (5D)6D
96.2705	-8.072	0.000	4.5	D6S (5D)6D	103873.990	4.5	4F(5D)1[4]	97.1880	-4.474	0.000	4.5	D6S (5D)6D
96.4213	-7.579	0.000	4.5	D6S (5D)6D	103711.570	3.5	4F(5D)2[4]	97.1893	-6.612	977.053	0.5	D6S (5D)6D
96.4304	-7.315	0.000	4.5	D6S (5D)6D	103701.720	4.5	4F(5D)2[5]	97.1939	-6.030	0.000	4.5	D6S (5D)6D
96.4403	-5.772	0.000	4.5	D6S (5D)6D	103691.050	5.5	4F(5D)2[5]	97.1984	-5.040	0.000	4.5	D6S (5D)6D
96.4500	-6.611	0.000	4.5	D6S (5D)6D	103680.640	4.5	4F(5D)2[4]	97.2277	-5.473	0.000	4.5	D6S (5D)6D
96.4536	-7.297	0.000	4.5	D6S (5D)6D	103676.780	3.5	4F(5D)2[3]	97.2466	-6.536	862.613	1.5	D6S (5D)6D
96.4678	-7.836	384.790	3.5	D6S (5D)6D	104046.350	2.5	4F(5D)0[3]	97.2466	-7.261	0.000	4.5	D6S (5D)6D
96.4896	-7.820	384.790	3.5	D6S (5D)6D	104022.890	3.5	4F(5D)0[3]	97.2634	-8.215	862.613	1.5	D6S (5D)6D
96.5222	-8.541	384.790	3.5	D6S (5D)6D	103987.930	2.5	4F(5D)1[3]	97.2705	-7.182	862.613	1.5	D6S (5D)6D
96.5391	-7.251	384.790	3.5	D6S (5D)6D	103969.760	3.5	4F(5D)1[3]	97.2773	-5.085	384.790	3.5	D6S (5D)6D
96.5838	-6.640	8391.938	2.5	D6S (5D)4D	111929.000	2.5	290DD	97.2778	-7.392	862.613	1.5	D6S (5D)6D
96.6203	-8.179	384.790	3.5	D6S (5D)6D	103882.680	3.5	4F(5D)1[4]	97.2927	-7.725	862.613	1.5	D6S (5D)6D
96.6284	-6.001	384.790	3.5	D6S (5D)6D	103873.990	4.5	4F(5D)1[4]	97.3234	-7.000	667.683	2.5	D6S (5D)6D
96.6436	-9.083	384.790	3.5	D6S (5D)6D	103857.740	2.5	4F(5D)1[2]	97.3344	-6.123	667.683	2.5	D6S (5D)6D
96.6929	-5.161	0.000	4.5	D6S (5D)6D	103420.160	5.5	4F(5D)3[6]	97.3486	-7.714	667.683	2.5	D6S (5D)6D
96.7251	-7.029	0.000	4.5	D6S (5D)6D	103385.730	3.5	4F(5D)3[3]	97.3539	-5.763	667.683	2.5	D6S (5D)6D
96.7318	-9.302	667.683	2.5	D6S (5D)6D	104046.350	2.5	4F(5D)0[3]	97.3718	-6.902	977.053	0.5	D6S (5D)6D
96.7537	-7.264	667.683	2.5	D6S (5D)6D	104022.890	3.5	4F(5D)0[3]	97.3737	-7.037	667.683	2.5	D6S (5D)6D
96.7561	-6.256	0.000	4.5	D6S (5D)6D	103352.680	4.5	4F(5D)3[5]	97.3789	-7.161	977.053	0.5	D6S (5D)6D
96.7674	-6.492	0.000	4.5	D6S (5D)6D	103340.640	3.5	4F(5D)3[4]	97.3966	-6.754	667.683	2.5	D6S (5D)6D
96.7803	-6.275	384.790	3.5	D6S (5D)6D	103311.570	3.5	4F(5D)2[4]	97.4012	-7.388	977.053	0.5	D6S (5D)6D
96.7807	-5.746	0.000	4.5	D6S (5D)6D	103326.410	4.5	4F(5D)3[4]	97.4028	-6.382	667.683	2.5	D6S (5D)6D
96.7811	-5.726	0.000	4.5	D6S (5D)6D	103325.950	5.5	4F(5D)3[5]	97.4284	-6.484	384.790	3.5	D6S (5D)6D
96.7896	-5.602	384.790	3.5	D6S (5D)6D	103701.720	4.5	4F(5D)2[5]	97.4673	-8.878	2430.097	3.5	D7 (5D)4F
96.7926	-7.619	384.790	3.5	D6S (5D)6D	103698.440	2.5	4F(5D)2[3]	97.4969	-6.509	384.790	3.5	D6S (5D)6D
96.8035	-6.974	667.683	2.5	D6S (5D)6D	103969.760	3.5	4F(5D)1[3]	97.4975	-7.205	384.790	3.5	D6S (5D)6D
96.8093	-8.395	384.790	3.5	D6S (5D)6D	103680.640	4.5	4F(5D)2[4]	97.5064	-5.896	384.790	3.5	D6S (5D)6D
96.8129	-7.280	384.790	3.5	D6S (5D)6D	103676.780	3.5	4F(5D)2[3]	97.5082	-7.373	862.613	1.5	D6S (5D)6D
96.8277	-8.364	384.790	3.5	D6S (5D)6D	103660.980	2.5	4F(5D)2[2]	97.5084	-7.628	862.613	1.5	D6S (5D)6D
96.8537	-2.144	8680.454	1.5	D6S (5D)4D	111929.000	2.5	290DD	97.5195	-7.138	862.613	1.5	D6S (5D)6D
96.8851	-6.620	667.683	2.5	D6S (5D)6D	103882.680	3.5	4F(5D)1[4]	97.5337	-7.178	862.613	1.5	D6S (5D)6D
96.8980	-7.883	667.683	2.5	D6S (5D)6D	103869.020	1.5	4F(5D)1[2]	97.5457	-4.932	667.683	2.5	D6S (5D)6D
96.9086	-7.608	667.683	2.5	D6S (5D)6D	103857.740	2.5	4F(5D)1[2]	97.5536	-6.000	2430.097	3.5	D7 (5D)4F
96.9145	-6.563	862.613	1.5	D6S (5D)6D	104046.350	2.5	4F(5D)0[3]	97.5588	-5.932	384.790	3.5	D6S (5D)6D
96.9145	-5.911	0.000	4.5	D6S (5D)6D	103183.700	3.5	4SP(3D)2F	97.5589	-7.368	862.613	1.5	D6S (5D)6D
96.9405	-9.793	1872.567	4.5	D7 (5D)4F	105028.600	3.5	4SP(3I)4H	97.5633	-5.685	384.790	3.5	D6S (5D)6D
96.9694	-7.192	862.613	1.5	D6S (5D)6D	103987.930	2.5	4F(5D)1[3]	97.5881	-5.260	862.613	1.5	D6S (5D)6D
96.9886	-4.572	862.613	1.5	D6S (5D)6D	103967.490	0.5	4SP(3P)2S	97.5928	-6.147	384.790	3.5	D6S (5D)6D
97.0259	-7.152	1872.567	4.5	D7 (5D)4F	104937.800	4.5	4SP(3I)4H	97.5988	-6.905	977.053	0.5	D6S (5D)6D
97.0460	-7.264	667.683	2.5	D6S (5D)6D	103711.570	3.5	4F(5D)2[4]	97.6152	-8.218	667.683	2.5	D6S (5D)6D
97.0584	-7.815	667.683	2.5	D6S (5D)6D	103698.440	2.5	4F(5D)2[3]	97.6171	-8.259	977.053	0.5	D6S (5D)6D
97.0672	-7.122	384.790	3.5	D6S (5D)6D	103406.250	2.5	4F(5D)3[2]	97.6173	-7.390	977.053	0.5	D6S (5D)6D
97.0788	-6.358	667.683	2.5	D6S (5D)6D	103676.780	3.5	4F(5D)2[3]	97.6427	-8.202	977.053	0.5	D6S (5D)6D
97.0813	-7.163	862.613	1.5	D6S (5D)6D	103869.020	1.5	4F(5D)1[2]	97.6877	-8.910	667.683	2.5	D6S (5D)6D
97.0864	-9.475	667.683	2.5	D6S (5D)6D	103668.690	1.5	4F(5D)2[1]	97.6977	-7.831	667.683	2.5	D6S (5D)6D
97.0865	-6.021	384.790	3.5	D6S (5D)6D	103385.730	3.5	4F(5D)3[3]	97.7132	-7.731	97.1939	6.030	D6S (5D)6D
97.0937	-6.643	667.683	2.5	D6S (5D)6D	103660.980	2.5	4F(5D)2[2]	97.7666	-8.077	667.683	2.5	D6S (5D)6D
97.1060	-6.636	977.053	0.5	D6S (5D)6D	103967.490	0.5	4SP(3P)2S	97.7761	-8.372	667.683	2.5	D6S (5D)6D
97.1062	-7.407	0.000	4.5	D6S (5D)6D	102980.300	5.5	4SP(3I)4I	97.7870	-6.978	862.613	1.5	D6S (5D)6D
97.1086	-7.281	384.790	3.5	D6S (5D)6D	103664.840	2.5	4F(5D)3[3]	97.8013	-7.269	862.613	1.5	D6S (5D)6D
97.1177	-5.263	667.683	2.5	D6S (5D)6D	103645.220	1.5	4F(5D)2[2]	97.8288	-9.050	667.683	2.5	D6S (5D)6D
97.1177	-5.263	384.790	3.5	D6S (5D)6D	103352.680	4.5	4F(5D)3[5]	97.8563	-6.201	2837.950	2.5	D7 (5D)4F
97.1290	-7.433	384.790	3.5	D6S (5D)6D	103340.640	3.5	4F(5D)3[4]	97.8740	-7.155	862.613	1.5	D6S (5D)6D
97.1331	-7.857	0.000	4.5	D6S (5D)6D	102951.500	4.5	4SP(3I)4I	97.8841	-7.474	862.613	1.5	D6S (5D)6D

WL(NM)	LOGCF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGCF	EVEN E	J	LABEL
97.8949	-4.288	1872.567	4.5	D7 (5D)4F	104022.890	3.5	4F(5D)0[3]	99.0576	-7.165	7955.299	3.5	D6S (5D)4D
97.8966	-8.246	977.053	0.5	D6S (5D)6D	103125.650	0.5	4F(5D)4[1]	99.0739	-2.955	2430.097	3.5	D7 (5D)4F
97.9108	-8.270	977.053	0.5	D6S (5D)6D	103110.790	1.5	4F(5D)4[1]	99.0739	-2.955	8946.768	0.5	D6S (5D)4D
97.9459	-5.244	1872.567	4.5	D7 (5D)4F	103969.760	3.5	4F(5D)1[3]	99.0797	-2.209	3117.461	1.5	D7 (5D)4F
97.9495	-7.392	862.633	1.5	D6S (5D)6D	102952.120	2.5	4F(5D)4[3]	99.0859	-0.811	2430.097	3.5	D7 (5D)4F
97.9774	-4.840	384.790	3.5	D6S (5D)6D	102449.100	2.5	4SP(3D)2D	99.0946	-4.228	7955.299	3.5	D6S (5D)4D
97.9838	-8.321	977.053	0.5	D6S (5D)6D	103034.760	1.5	4F(5D)4[2]	99.0977	-2.981	2430.097	3.5	D7 (5D)4F
98.0295	-4.865	1872.567	4.5	D7 (5D)4F	103882.680	3.5	4F(5D)1[4]	99.1019	-3.370	667.683	2.5	D6S (5D)6D
98.0378	-4.084	1872.567	4.5	D7 (5D)4F	103873.990	4.5	4F(5D)1[4]	99.1041	-9.365	2430.097	3.5	D7 (5D)4F
98.1942	-3.591	1872.567	4.5	D7 (5D)4F	103711.570	3.5	4F(5D)2[4]	99.1116	-3.044	2430.097	3.5	D7 (5D)4F
98.1970	-5.988	667.683	2.5	D6S (5D)6D	102503.810	1.5	4SP(3D)2D	99.1339	-1.404	2837.950	2.5	D7 (5D)4F
98.2037	-3.327	1872.567	4.5	D7 (5D)4F	103701.720	4.5	4F(5D)2[5]	99.1370	-2.304	3117.461	1.5	D7 (5D)4F
98.2140	-1.784	1872.567	4.5	D7 (5D)4F	103691.050	5.5	4F(5D)2[5]	99.1469	-3.591	2837.950	2.5	D7 (5D)4F
98.2240	-2.623	1872.567	4.5	D7 (5D)4F	103680.640	4.5	4F(5D)2[4]	99.1571	-6.365	3117.461	1.5	D7 (5D)4F
98.2278	-3.309	1872.567	4.5	D7 (5D)4F	103676.780	3.5	4F(5D)2[3]	99.1681	-1.499	2837.950	2.5	D7 (5D)4F
98.2498	-7.740	667.683	2.5	D6S (5D)6D	102449.100	2.5	4SP(3D)2D	99.1761	-3.973	2837.950	2.5	D7 (5D)4F
98.3853	-5.795	862.613	1.5	D6S (5D)6D	102503.810	1.5	4SP(3D)2D	99.1837	-1.962	2837.950	2.5	D7 (5D)4F
98.4095	-3.383	2430.097	3.5	D7 (5D)4F	104046.350	2.5	4F(5D)0[3]	99.1992	-2.761	2837.950	2.5	D7 (5D)4F
98.4322	-3.368	2430.097	3.5	D7 (5D)4F	104022.890	3.5	4F(5D)0[3]	99.2520	-8.823	2430.097	3.5	D7 (5D)4F
98.4383	-4.855	862.613	1.5	D6S (5D)6D	102449.100	2.5	4SP(3D)2D	99.2540	-2.136	3117.461	1.5	D7 (5D)4F
98.4661	-4.088	2430.097	3.5	D7 (5D)4F	103987.930	2.5	4F(5D)1[3]	99.2652	-1.568	3117.461	1.5	D7 (5D)4F
98.4760	-1.173	1872.567	4.5	D7 (5D)4F	103420.160	5.5	4F(5D)3[6]	99.2937	-5.792	862.613	1.5	D6S (5D)6D
98.4837	-2.799	2430.097	3.5	D7 (5D)4F	103969.760	3.5	4F(5D)1[3]	99.3287	-3.157	7955.299	3.5	D6S (5D)4D
98.4962	-5.579	977.053	0.5	D6S (5D)6D	102503.810	1.5	4SP(3D)2D	99.3306	-3.853	7955.299	3.5	D6S (5D)4D
98.5094	-3.041	1872.567	4.5	D7 (5D)4F	103385.730	3.5	4F(5D)3[3]	99.3885	-2.436	7955.299	3.5	D6S (5D)4D
98.5415	-2.268	1872.567	4.5	D7 (5D)4F	103352.680	4.5	4F(5D)3[5]	99.4067	-4.062	977.053	0.5	D6S (5D)6D
98.5532	-2.504	1872.567	4.5	D7 (5D)4F	103340.640	3.5	4F(5D)3[4]	99.4093	-2.032	2430.097	3.5	D7 (5D)4F
98.5670	-1.758	1872.567	4.5	D7 (5D)4F	103326.410	4.5	4F(5D)3[4]	99.4224	-0.970	3117.461	1.5	D7 (5D)4F
98.5674	-1.738	1872.567	4.5	D7 (5D)4F	103325.950	5.5	4F(5D)3[5]	99.4234	-2.225	2837.950	2.5	D7 (5D)4F
98.5682	-3.727	2430.097	3.5	D7 (5D)4F	103882.680	3.5	4F(5D)1[4]	99.4349	-1.368	2837.950	2.5	D7 (5D)4F
98.5767	-1.549	2430.097	3.5	D7 (5D)4F	103873.990	4.5	4F(5D)1[4]	99.4443	-2.926	3117.461	1.5	D7 (5D)4F
98.5925	-4.630	2430.097	3.5	D7 (5D)4F	103857.740	2.5	4F(5D)1[2]	99.4497	-5.230	2837.950	2.5	D7 (5D)4F
98.6309	-1.940	8391.938	2.5	D6S (5D)4D	109780.000	1.5	280DD	99.4518	-2.089	3117.461	1.5	D7 (5D)4F
98.7058	-7.319	1872.567	4.5	D7 (5D)4F	103183.700	3.5	4SP(3D)2F	99.4552	-0.984	2837.950	2.5	D7 (5D)4F
98.7347	-1.823	2430.097	3.5	D7 (5D)4F	103711.570	3.5	4F(5D)2[4]	99.4594	-1.902	3117.461	1.5	D7 (5D)4F
98.7443	-1.150	2430.097	3.5	D7 (5D)4F	103701.720	4.5	4F(5D)2[5]	99.4631	-3.544	862.613	1.5	D6S (5D)6D
98.7475	-3.167	2430.097	3.5	D7 (5D)4F	103698.440	4.5	4F(5D)2[3]	99.4750	-2.294	3117.461	1.5	D7 (5D)4F
98.7649	-3.943	2430.097	3.5	D7 (5D)4F	103680.640	2.5	4F(5D)2[4]	99.4759	-3.108	2837.950	2.5	D7 (5D)4F
98.7687	-2.828	2430.097	3.5	D7 (5D)4F	103676.780	3.5	4F(5D)2[3]	99.4807	-2.057	2430.097	3.5	D7 (5D)4F
98.7841	-3.912	2430.097	3.5	D7 (5D)4F	103660.980	2.5	4F(5D)2[2]	99.4813	-7.986	2430.097	3.5	D7 (5D)4F
98.8060	-2.471	2837.950	2.5	D7 (5D)4F	104046.350	2.5	4F(5D)0[3]	99.4879	-5.307	8391.938	2.5	D6S (5D)4D
98.8289	-1.894	2837.950	2.5	D7 (5D)4F	104022.890	3.5	4F(5D)0[3]	99.4905	-1.444	2430.097	3.5	D7 (5D)4F
98.8631	-3.260	2837.950	2.5	D7 (5D)4F	103987.930	2.5	4F(5D)1[3]	99.4998	-2.348	2837.950	2.5	D7 (5D)4F
98.8809	-2.083	2837.950	2.5	D7 (5D)4F	103969.760	3.5	4F(5D)1[3]	99.5063	-7.236	2837.950	2.5	D7 (5D)4F
98.9044	-7.510	1872.567	4.5	D7 (5D)4F	102980.300	5.5	4SP(3D)2F	99.5344	-8.595	1872.567	4.5	D7 (5D)4F
98.9124	-2.703	8680.454	1.5	D6S (5D)4D	109780.000	1.5	280DD	99.5451	-1.480	2430.097	3.5	D7 (5D)4F
98.9326	-8.111	1872.567	4.5	D7 (5D)4F	102951.500	4.5	4SP(3D)2F	99.5498	-1.233	2430.097	3.5	D7 (5D)4F
98.9417	-2.009	1872.567	4.5	D7 (5D)4F	102942.200	3.5	4F(5D)4[3]	99.5765	-4.130	977.053	0.5	D6S (5D)6D
98.9661	-1.407	2837.950	2.5	D7 (5D)4F	103882.680	3.5	4F(5D)1[4]	99.5805	-1.695	2430.097	3.5	D7 (5D)4F
98.9795	-4.079	2837.950	2.5	D7 (5D)4F	103869.020	1.5	4F(5D)1[2]	99.6134	-4.818	7955.299	3.5	D6S (5D)4D
98.9895	-0.486	1872.567	4.5	D7 (5D)4F	102893.380	5.5	4F(5D)4[6]	99.6134	-2.435	8391.938	2.5	D6S (5D)4D
98.9905	-2.947	2837.950	2.5	D7 (5D)4F	103857.740	2.5	4F(5D)1[2]	99.6554	-6.724	2837.950	2.5	D7 (5D)4F
98.9956	-2.042	1872.567	4.5	D7 (5D)4F	102887.120	3.5	4F(5D)4[4]	99.6812	-2.850	3117.461	1.5	D7 (5D)4F
99.0003	-1.052	1872.567	4.5	D7 (5D)4F	102882.370	4.5	4F(5D)4[4]	99.7003	-4.660	3117.461	1.5	D7 (5D)4F
99.0307	-1.485	1872.567	4.5	D7 (5D)4F	102851.360	4.5	4F(5D)4[5]	99.7003	-1.799	3117.461	1.5	D7 (5D)4F
99.0333	-2.670	2430.097	3.5	D7 (5D)4F	103406.250	2.5	4F(5D)3[2]	99.7120	-1.589	3117.461	1.5	D7 (5D)4F
99.0504	-3.273	1872.567	4.5	D7 (5D)4F	102831.320	5.5	4F(5D)4[5]	99.7169	-4.461	7955.299	3.5	D6S (5D)4D
99.0534	-1.569	2430.097	3.5	D7 (5D)4F	103385.730	3.5	4F(5D)3[3]	99.7269	-2.775	3117.461	1.5	D7 (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
99.7279	-2.440	2837.950	2.5	D7 (5D)4F	103110.790	1.5	4F(5D)4[1]	101.4233	-2.655	0.000	4.5	D6S (5D)6D	98596.650	4.5	4SP(5D)4F
99.7532	-2.605	3117.461	1.5	D7 (5D)4F	103364.840	2.5	4F(5D)3[3]	101.4859	-3.469	0.000	4.5	D6S (5D)6D	98535.850	3.5	4SP(5D)4F
99.7614	-2.465	8391.938	2.5	D6S (5D)4D	108631.090	3.5	4SP(3G)4G	101.5066	-2.414	8680.454	1.5	D6S (5D)4D	107196.200	2.5	180DD
99.7632	-3.363	8391.938	2.5	D6S (5D)4D	108629.250	2.5	4SP(3G)4G	101.5085	-6.563	384.790	3.5	D6S (5D)6D	98898.710	3.5	4P (1G)2F
99.7838	-6.849	3117.461	1.5	D7 (5D)4F	103334.100	2.5	4SP(3D)2F	101.5525	-2.210	8391.938	2.5	D6S (5D)4D	106863.200	3.5	160DD
99.8036	-2.438	2837.950	2.5	D7 (5D)4F	103034.760	1.5	4F(5D)4[2]	101.5678	-6.119	3117.461	1.5	D7 (5D)4F	101573.900	1.5	4SP(5D)4P
99.8140	-1.947	2837.950	2.5	D7 (5D)4F	103024.290	2.5	4F(5D)4[2]	101.5697	-5.612	13474.411	2.5	D7 (5D)4F	111929.000	2.5	290DD
99.8250	-3.539	7955.299	3.5	D6S (5D)4D	108130.600	2.5	220DD	101.6350	-3.807	0.000	4.5	D6S (5D)6D	98391.330	3.5	4SP(5D)4D
99.8860	-1.990	2837.950	2.5	D7 (5D)4F	102952.120	2.5	4F(5D)4[3]	101.7450	-6.186	3117.461	1.5	D7 (5D)4F	101402.380	0.5	4SP(5D)4P
99.8959	-2.134	2837.950	2.5	D7 (5D)4F	102942.200	3.5	4F(5D)4[3]	101.7514	-7.404	0.000	4.5	D6S (5D)6D	98278.770	5.5	4P (1G)2H
99.9006	-3.713	8680.454	1.5	D6S (5D)4D	108780.000	1.5	270DD	101.7751	-4.942	13673.185	1.5	D7 (5D)4P	111929.000	2.5	290DD
99.9006	-2.216	2837.950	2.5	D7 (5D)4F	102887.120	3.5	4F(5D)4[4]	101.8008	-7.145	667.683	2.5	D6S (5D)6D	98898.710	3.5	4P (1G)2F
99.9810	-6.193	2430.097	3.5	D7 (5D)4F	102449.100	2.5	4SP(3D)2D	101.8207	-3.172	384.790	3.5	D6S (5D)6D	98596.650	4.5	4SP(5D)4F
99.9844	-6.038	384.790	3.5	D6S (5D)6D	100400.360	2.5	4SP(3P)2D	101.8838	-3.415	384.790	3.5	D6S (5D)6D	98535.850	3.5	4SP(5D)4F
99.9906	-1.081	7955.299	3.5	D6S (5D)4D	107964.700	4.5	210DD	101.8900	-5.049	862.613	1.5	D6S (5D)6D	99007.700	0.5	4SP(5D)4D
99.9918	-3.192	3117.461	1.5	D7 (5D)4F	103125.650	0.5	4F(5D)4[1]	101.9157	-4.897	384.790	3.5	D6S (5D)6D	98505.100	2.5	4SP(5D)4D
100.0067	-2.865	8391.938	2.5	D6S (5D)4F	103110.790	1.5	4F(5D)4[1]	101.9342	-6.802	667.683	2.5	D6S (5D)6D	98770.140	1.5	4SP(5D)4D
100.0181	-3.885	8391.938	2.5	D6S (5D)4D	108373.800	3.5	260DD	102.0089	-3.523	977.053	0.5	D6S (5D)6D	99007.700	0.5	4SP(5D)4D
100.0202	-3.405	8391.938	2.5	D6S (5D)4D	108371.700	1.5	250DD	102.0340	-3.287	384.790	3.5	D6S (5D)6D	98391.330	3.5	4SP(5D)4D
100.0512	-3.240	8680.454	1.5	D6S (5D)4D	108629.250	2.5	4SP(3G)4G	102.0718	-5.847	2430.097	3.5	D7 (5D)4F	100400.360	2.5	4SP(3P)2D
100.0668	-1.846	8846.768	0.5	D6S (5D)4D	108780.000	1.5	270DD	102.0722	-4.015	384.790	3.5	D6S (5D)6D	98354.660	2.5	4SP(5D)4F
100.0687	-1.760	7955.299	3.5	D6S (5D)4D	107886.600	3.5	200DD	102.1077	-5.244	1872.567	4.5	D7 (5D)4F	99808.400	3.5	4P (1G)2G
100.0828	-2.905	3117.461	1.5	D7 (5D)4F	103034.760	1.5	4F(5D)4[2]	102.1372	-4.066	862.613	1.5	D6S (5D)6D	98770.140	1.5	4SP(5D)4D
100.0933	-3.214	3117.461	1.5	D7 (5D)4F	103024.290	2.5	4F(5D)4[2]	102.1612	-4.159	1872.567	4.5	D7 (5D)4F	99757.120	4.5	4P (1G)2G
100.1530	-3.615	8391.938	2.5	D6S (5D)4D	108239.200	3.5	240DD	102.1783	-3.642	667.683	2.5	D6S (5D)6D	98535.850	3.5	4SP(5D)4F
100.1656	-3.360	3117.461	1.5	D7 (5D)4F	102952.120	2.5	4F(5D)4[3]	102.1958	-7.765	0.000	4.5	D6S (5D)6D	97851.350	4.5	4P (1G)2H
100.1920	-6.383	0.000	4.5	D6S (5D)6D	99808.400	3.5	4P (1G)2G	102.2104	-4.144	667.683	2.5	D6S (5D)6D	98505.100	2.5	4SP(5D)4D
100.2007	-1.945	8391.938	2.5	D6S (5D)4D	108130.600	1.5	230DD	102.2567	-3.193	977.053	0.5	D6S (5D)6D	98770.140	1.5	4SP(5D)4D
100.2435	-4.646	0.000	4.5	D6S (5D)6D	99757.120	4.5	4P (1G)2G	102.2697	-4.271	1872.567	4.5	D7 (5D)4F	99653.220	4.5	4SP(3G)2G
100.2620	-1.803	8391.938	2.5	D6S (5D)4D	100400.360	2.5	4SP(3P)2D	102.3294	-2.995	667.683	2.5	D6S (5D)6D	98391.330	3.5	4SP(5D)4D
100.2680	-6.569	667.683	2.5	D6S (5D)6D	100400.360	2.5	4SP(3P)2D	102.3678	-4.947	667.683	2.5	D6S (5D)6D	98354.660	2.5	4SP(5D)4F
100.3097	-1.869	8680.454	1.5	D6S (5D)4D	108371.700	1.5	250DD	102.3850	-3.841	667.683	2.5	D6S (5D)6D	98338.280	1.5	4SP(5P)4S
100.3353	-6.259	2837.950	2.5	D7 (5D)4F	102503.810	1.5	4SP(3D)2G	102.4144	-2.993	862.613	1.5	D6S (5D)6D	98505.100	2.5	4SP(5D)4D
100.3480	-4.704	0.000	4.5	D6S (5D)6D	99653.220	4.5	4SP(3G)2G	102.4985	-5.470	2837.950	2.5	D7 (5D)4F	100400.360	2.5	4SP(3P)2D
100.3658	-6.179	0.000	4.5	D6S (5D)6D	99635.520	3.5	4SP(3D)2D	102.5343	-4.375	667.683	2.5	D6S (5D)6D	98196.000	1.5	4SP(5D)4F
100.3904	-6.213	2837.950	2.5	D7 (5D)4F	102449.100	2.5	4SP(3D)2D	102.5725	-3.706	862.613	1.5	D6S (5D)6D	98354.660	2.5	4SP(5D)4F
100.4644	-4.762	862.613	1.5	D6S (5D)6D	100400.360	2.5	4SP(3P)2D	102.5897	-3.400	862.613	1.5	D6S (5D)6D	98338.280	1.5	4SP(5P)4S
100.4773	-1.863	8846.768	0.5	D6S (5D)4D	108371.700	1.5	250DD	102.5997	-7.680	862.613	1.5	D6S (5D)6D	98338.280	1.5	4SP(5P)4S
100.4913	-2.262	8680.454	1.5	D6S (5D)4D	108191.600	1.5	230DD	102.7397	-7.680	862.613	1.5	D6S (5D)6D	98338.280	1.5	4SP(5P)4S
100.5079	-1.192	8391.938	2.5	D6S (5D)4D	107886.600	3.5	200DD	102.7464	-5.139	2430.097	3.5	D7 (5D)4F	99757.120	4.5	4P (1G)2G
100.5529	-2.021	8680.454	1.5	D6S (5D)4D	108130.600	2.5	220DD	102.7930	-6.339	3117.461	1.5	D7 (5D)4F	100400.360	2.5	4SP(3P)2D
100.5797	-6.356	384.790	3.5	D6S (5D)6D	107886.600	3.5	200DD	102.8562	-5.369	2430.097	3.5	D7 (5D)4F	99653.220	4.5	4SP(3G)2G
100.6174	-6.458	3117.461	1.5	D7 (5D)4F	108191.600	1.5	230DD	102.8606	-5.476	977.053	0.5	D6S (5D)6D	98196.000	1.5	4SP(5D)4F
100.6316	-3.356	384.790	3.5	D6S (5D)6D	107886.600	3.5	200DD	102.8749	-5.331	2430.097	3.5	D7 (5D)4F	99653.220	4.5	4SP(3G)2G
100.6595	-3.655	8846.768	0.5	D6S (5D)4D	108191.600	1.5	230DD	102.8749	-5.331	2430.097	3.5	D7 (5D)4F	99653.220	4.5	4SP(3G)2G
100.6729	-6.558	3117.461	1.5	D7 (5D)4F	102449.100	2.5	4SP(3D)2D	102.8749	-5.331	2430.097	3.5	D7 (5D)4F	99653.220	4.5	4SP(3G)2G
100.7370	-5.337	384.790	3.5	D6S (5D)6D	99653.220	4.5	4SP(3D)2D	103.0149	-5.097	7955.299	3.5	D6S (5D)6D	105028.600	3.5	4SP(3I)4H
100.7549	-5.786	384.790	3.5	D6S (5D)6D	99635.520	3.5	4SP(3G)2G	103.0650	-9.390	1872.567	4.5	D7 (5D)4F	98898.710	3.5	4P (1G)2F
100.7649	-3.442	7955.299	3.5	D6S (5D)4D	107196.200	2.5	180DD	103.1114	-5.833	7955.299	3.5	D6S (5D)6D	104937.800	4.5	4SP(3I)4H
100.7960	-6.374	7955.299	3.5	D6S (5D)4D	107165.600	3.5	170DD	103.1242	-4.836	2837.950	2.5	D7 (5D)4F	99808.400	3.5	4P (1G)2G
100.8667	-6.496	667.683	2.5	D6S (5D)6D	99808.400	3.5	4P (1G)2G	103.1424	-4.836	2837.950	2.5	D7 (5D)4F	99808.400	3.5	4P (1G)2G
100.9580	-5.718	7955.299	3.5	D6S (5D)4D	107006.350	4.5	4SP(3I)2H	103.3084	-5.565	2837.950	2.5	D7 (5D)4F	99635.520	3.5	4SP(3G)2G
101.0429	-5.869	667.683	2.5	D6S (5D)6D	99635.520	3.5	4SP(3G)2G	103.3869	-4.275	1872.567	4.5	D7 (5D)4F	98596.650	4.5	4SP(5D)4F
101.1042	-3.342	7955.299	3.5	D6S (5D)4D	106863.200	3.5	160DD	103.4519	-4.520	1872.567	4.5	D7 (5D)4F	98535.850	3.5	4SP(5D)4F
101.1136	-6.033	0.000	4.5	D6S (5D)6D	98898.710	3.5	4P (1G)2F	103.4569	-3.861	667.683	2.5	D6S (5D)6D	97326.270	1.5	4SP(3P)2P
101.2102	-2.579	8391.938	2.5	D6S (5D)4D	107196.200	2.5	180DD	103.4804	-6.400	8391.938	2.5	D6S (5D)6D	105028.600	3.5	4SP(3I)4H
101.2416	-2.742	8391.938	2.5	D6S (5D)4D	107165.600	3.5	170DD	103.6068	-2.951	1872.567	4.5	D7 (5D)4F	98391.330	3.5	4SP(5D)4D
101.2802	-5.512	2837.950	2.5	D7 (5D)4F	101573.900	1.5	4SP(5D)4P	103.6607	-3.969	2430.097	3.5	D7 (5D)4F	98898.710	3.5	4P (1G)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
103.6660	-4.136	862.613	1.5	D6S (5D)6D	97326.270	1.5	4SP(3P)2P	104.8113	-8.604	7955.299	3.5	D6S (5D)4D
103.7278	-4.808	1872.567	4.5	4F (5D)4F	98278.770	5.5	4P (1G)2H	104.8247	-6.452	7955.299	3.5	D6S (5D)4D
103.7808	-5.050	0.000	4.5	D6S (5D)6D	96356.960	3.5	4SP(3G)2F	104.8354	-6.089	3117.461	1.5	D7 (5D)4F
103.7891	-3.788	977.053	0.5	D6S (5D)6D	97326.270	1.5	4SP(3P)2P	104.8379	-8.637	7955.299	3.5	D6S (5D)4D
103.8361	-3.877	13474.411	2.5	D7 (5D)4F	109780.000	1.5	280DD	104.8451	-5.921	7955.299	3.5	D6S (5D)4D
103.9078	-5.894	0.000	4.5	D6S (5D)6D	96239.200	4.5	4SP(3G)2H	104.8536	-8.666	7955.299	3.5	D6S (5D)4D
103.9313	-2.883	0.000	4.5	D6S (5D)6D	96217.420	3.5	4SP(5P)4D	104.8593	-6.748	8680.454	1.5	D6S (5D)4D
103.9863	-5.441	2430.097	3.5	D7 (5D)4F	98596.650	4.5	4SP(5D)4F	104.8679	-7.448	2837.950	2.5	D7 (5D)4F
104.0509	-3.054	13673.185	1.5	D7 (5D)4F	109780.000	1.5	280DD	104.9010	-2.928	667.683	2.5	D6S (5D)6D
104.0520	-4.205	2430.097	3.5	D7 (5D)4F	98535.850	3.5	4SP(5D)4F	104.9102	-6.567	8391.938	2.5	D6S (5D)4D
104.0680	-9.020	7955.299	3.5	D6S (5D)4F	104046.350	2.5	4F(5D)0[13]	104.9236	-7.307	8680.454	1.5	D6S (5D)4D
104.0853	-3.322	2430.097	3.5	D7 (5D)4F	98505.100	2.5	4SP(5D)4D	104.9246	-6.906	8391.938	2.5	D6S (5D)4D
104.0934	-9.007	7955.299	3.5	D6S (5D)4D	104022.890	3.5	4F(5D)0[13]	104.9256	-6.426	13474.411	2.5	D7 (5D)4F
104.0994	-6.305	0.000	4.5	D6S (5D)6D	96062.060	5.5	4SP(3G)2F	104.9461	-3.303	8680.454	1.5	D6S (5D)4D
104.1008	-4.402	2837.950	2.5	D7 (5D)4F	98898.710	3.5	4P (1G)2H	104.9485	-6.571	8391.938	2.5	D6S (5D)4D
104.1313	-9.724	7955.299	3.5	D6S (5D)4D	103987.930	2.5	4F(5D)1[13]	104.9574	-9.726	8391.938	2.5	D6S (5D)4D
104.1510	-8.434	7955.299	3.5	D6S (5D)4D	103969.760	3.5	4F(5D)1[13]	104.9659	-6.609	8391.938	2.5	D6S (5D)4D
104.1897	-7.588	1872.567	4.5	D7 (5D)4F	97851.350	4.5	4P (1G)2H	104.9833	-7.097	8391.938	2.5	D6S (5D)4D
104.1969	-5.501	384.790	3.5	D6S (5D)6D	96356.960	3.5	4SP(3G)2F	105.0010	-5.030	3117.461	1.5	D7 (5D)4F
104.2087	-4.053	2430.097	3.5	D7 (5D)4F	98391.330	3.5	4SP(5D)4D	105.0107	-4.204	7955.299	3.5	D6S (5D)4D
104.2403	-3.319	2837.950	2.5	D7 (5D)4F	98770.140	1.5	4SP(5D)4D	105.0191	-4.862	3117.461	1.5	D7 (5D)4F
104.2455	-9.363	7955.299	3.5	D6S (5D)4D	103882.680	3.5	4F(5D)1[14]	105.0526	-2.542	667.683	2.5	D6S (5D)6D
104.2486	-3.414	2430.097	3.5	D7 (5D)4F	98354.660	2.5	4SP(5D)4F	105.0546	-7.268	8680.454	1.5	D6S (5D)4D
104.2550	-7.185	7955.299	3.5	D6S (5D)4D	103873.990	4.5	4F(5D)1[14]	105.0671	-8.994	8680.454	1.5	D6S (5D)4D
104.2810	-5.557	384.790	3.5	D6S (5D)6D	96279.490	2.5	4SP(3G)2F	105.0898	-4.302	13474.411	2.5	D7 (5D)4F
104.2859	-3.604	3117.461	1.5	D7 (5D)4F	99007.700	0.5	4SP(5D)4D	105.0919	-5.042	13474.411	2.5	D7 (5D)4F
104.3023	-4.047	13904.824	0.5	D7 (5D)4F	109780.000	1.5	280DD	105.1159	-2.692	862.613	1.5	D6S (5D)6D
104.3249	-6.014	384.790	3.5	D6S (5D)6D	96239.200	4.5	4SP(3G)2H	105.1296	-3.775	8846.768	0.5	D6S (5D)4D
104.3486	-2.495	384.790	3.5	D6S (5D)6D	96217.420	3.5	4SP(5P)4D	105.1449	-3.493	13673.185	1.5	D7 (5D)4F
104.4318	-7.460	7955.299	3.5	D6S (5D)4D	103711.570	3.5	4F(5D)2[14]	105.1750	-5.439	0.000	4.5	D6S (5D)6D
104.4421	-6.788	7955.299	3.5	D6S (5D)4D	103701.720	4.5	4F(5D)2[15]	105.1762	-5.004	3117.461	1.5	D7 (5D)4F
104.4465	-9.530	7955.299	3.5	D6S (5D)4D	103698.440	2.5	4F(5D)2[15]	105.1868	-7.679	7955.299	3.5	D6S (5D)4D
104.4655	-8.469	7955.299	3.5	D6S (5D)4D	103680.640	4.5	4F(5D)2[14]	105.2344	-7.079	8391.938	2.5	D6S (5D)4D
104.4870	-9.547	7955.299	3.5	D6S (5D)4D	103676.780	3.5	4F(5D)2[13]	105.2385	-7.707	8846.768	0.5	D6S (5D)4D
104.4955	-5.157	2837.950	2.5	D7 (5D)4F	103660.980	2.5	4F(5D)2[12]	105.2432	-6.608	8680.454	1.5	D6S (5D)4D
104.5049	-5.108	667.683	2.5	D6S (5D)6D	98535.850	3.5	4SP(5D)4F	105.2473	-6.176	8391.938	2.5	D6S (5D)4D
104.5291	-4.421	2837.950	2.5	D7 (5D)4F	96356.960	3.5	4SP(3G)2F	105.2639	-7.004	8391.938	2.5	D6S (5D)4D
104.5430	-7.197	8391.938	2.5	D6S (5D)4D	98505.100	2.5	4SP(5D)4D	105.2667	-7.704	7955.299	3.5	D6S (5D)4D
104.5449	-4.006	3117.461	1.5	D7 (5D)4F	104046.350	2.5	4F(5D)0[13]	105.2674	-7.146	7955.299	3.5	D6S (5D)4D
104.5687	-8.238	8391.938	2.5	D6S (5D)4D	98770.140	1.5	4SP(5D)4D	105.2678	-8.318	8680.454	1.5	D6S (5D)4D
104.5896	-5.446	667.683	2.5	D6S (5D)6D	104022.890	3.5	4F(5D)0[13]	105.2682	-4.056	862.613	1.5	D6S (5D)6D
104.5906	-2.458	384.790	3.5	D6S (5D)6D	96279.490	2.5	4SP(3G)2F	105.2700	-5.848	8391.938	2.5	D6S (5D)4D
104.6069	-7.908	8391.938	2.5	D6S (5D)4D	95995.690	2.5	4SP(5P)4D	105.2762	-7.289	8680.454	1.5	D6S (5D)4D
104.6268	-7.238	8391.938	2.5	D6S (5D)4D	103987.930	2.5	4F(5D)1[13]	105.2777	-7.090	7955.299	3.5	D6S (5D)4D
104.6467	-4.166	16369.360	3.5	D7 (5D)2G	103969.760	3.5	4F(5D)1[13]	105.2847	-7.477	8680.454	1.5	D6S (5D)4D
104.6535	-5.470	2837.950	2.5	D7 (5D)4F	111929.000	2.5	290DD	105.2932	-6.577	8391.938	2.5	D6S (5D)4D
104.6575	-2.740	667.683	2.5	D6S (5D)6D	98391.330	3.5	4SP(5P)4D	105.3022	-7.817	8680.454	1.5	D6S (5D)4D
104.6937	-3.875	2837.950	2.5	D7 (5D)4F	96217.420	3.5	4SP(5D)4D	105.3119	-5.060	13673.185	1.5	D7 (5D)4F
104.7117	-4.292	2837.950	2.5	D7 (5D)4F	98354.660	2.5	4SP(5D)4F	105.3200	-6.493	8391.938	2.5	D6S (5D)4D
104.7222	-8.734	8391.938	2.5	D6S (5D)4D	103882.680	3.5	4F(5D)1[14]	105.3273	-4.592	8391.938	2.5	D6S (5D)4D
104.7372	-7.390	8391.938	2.5	D6S (5D)4D	103869.020	1.5	4F(5D)1[12]	105.3388	-7.127	7955.299	3.5	D6S (5D)4D
104.7496	-7.550	8391.938	2.5	D6S (5D)4D	103857.740	2.5	4F(5D)1[12]	105.3440	-6.881	7955.299	3.5	D6S (5D)4D
104.7658	-8.311	7955.299	3.5	D6S (5D)4D	103806.250	2.5	4F(5D)1[12]	105.3684	-3.053	862.613	1.5	D6S (5D)6D
104.7864	-6.140	13474.411	2.5	D7 (5D)4F	103966.640	3.5	4SP(3G)4H	105.3748	-5.820	13474.411	2.5	D7 (5D)4F
104.7884	-7.211	7955.299	3.5	D6S (5D)4D	103385.730	3.5	4F(5D)3[13]	105.3785	-7.342	7955.299	3.5	D6S (5D)4D
104.7985	-5.427	2430.097	3.5	D7 (5D)4F	97851.350	4.5	4P (1G)2H	105.3952	-2.978	977.053	0.5	D6S (5D)6D
104.8033	-5.048	862.613	1.5	D6S (5D)6D	96279.490	2.5	4SP(3G)2F	105.4016	-3.136	13904.824	0.5	D7 (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
105.4525	-7.948	8846.768	0.5	D6S (5D)4D	103676.220	0.5	4F(5D)2[1]	106.2565	-4.507	8391.938	2.5	D6S (5D)4D	102503.810	1.5	4SP(3D)2D
105.4608	-8.286	8846.768	0.5	D6S (5D)4D	103668.690	1.5	4F(5D)2[1]	106.2750	-1.429	667.683	2.5	D6S (5D)6D	94763.219	3.5	4SP(3D)6P
105.4870	-8.429	8846.768	0.5	D6S (5D)4D	103645.220	1.5	4F(5D)2[2]	106.3002	-5.115	0.000	4.5	D6S (5D)6D	94073.240	3.5	4SP(5G)4G
105.4944	-4.874	8391.938	2.5	D6S (5D)4D	103183.700	3.5	4SP(3D)2F	106.3021	-1.217	667.683	2.5	D6S (5D)6D	94739.170	1.5	4SP(5P)4P
105.4956	-4.198	977.053	0.5	D6S (5D)4D	95767.700	0.5	4SP(5P)4D	106.3127	-3.711	977.053	0.5	D6S (5D)6D	95039.200	1.5	4P (3P)2P
105.5244	-3.172	13474.411	2.5	D7 (5D)4P	108239.200	3.5	240DD	106.3176	-0.153	0.000	4.5	D6S (5D)6D	94057.773	4.5	4SP(5D)6D
105.5262	-0.839	0.000	4.5	D6S (5D)6D	94763.219	3.5	4SP(5D)6P	106.3183	-3.546	8391.938	2.5	D6S (5D)4D	102449.100	2.5	4SP(3D)2D
105.5547	-7.524	8680.454	1.5	D6S (5D)6D	103418.080	0.5	4F(5D)3[1]	106.3457	-4.871	667.683	2.5	D6S (5D)6D	94700.660	2.5	4P (3F)2D
105.5549	-7.689	8680.454	1.5	D6S (5D)4D	103417.910	1.5	4F(5D)3[1]	106.3625	-1.549	862.613	1.5	D6S (5D)6D	94880.740	0.5	4SP(5P)4P
105.5679	-7.222	8680.454	1.5	D6S (5D)4D	103406.250	2.5	4F(5D)3[2]	106.3633	-2.356	667.683	2.5	D6S (5D)6D	94685.090	2.5	4SP(5D)6D
105.5756	-7.330	8391.938	2.5	D6S (5D)4D	103110.790	1.5	4F(5D)4[1]	106.3972	-1.621	0.000	4.5	D6S (5D)6D	93987.457	3.5	4SP(5G)2F
105.5756	-7.330	8391.938	2.5	D6S (5D)4D	103110.790	1.5	4F(5D)4[1]	106.4658	-5.473	2430.097	3.5	D7 (5D)4F	96356.960	3.5	4SP(3G)2F
105.5845	-7.308	13474.411	2.5	D7 (5D)4P	108191.600	1.5	230DD	106.4921	-2.067	977.053	0.5	D6S (5D)6D	94890.740	0.5	4SP(5P)4P
105.5845	-7.308	8680.454	1.5	D6S (5D)4D	103391.290	1.5	4F(5D)3[2]	106.5229	-4.688	862.613	1.5	D6S (5D)6D	94739.170	1.5	4SP(5P)4P
105.5983	-3.755	13673.185	1.5	D7 (5D)4P	108371.700	1.5	250DD	106.5537	-6.803	2430.097	3.5	D7 (5D)4F	96279.490	2.5	4SP(3G)2F
105.6024	-4.547	384.790	3.5	D6S (5D)6D	95079.640	3.5	4P (3F)2F	106.5666	-3.806	862.613	1.5	D6S (5D)6D	94700.660	2.5	4P (3F)2D
105.6140	-7.489	8680.454	1.5	D6S (5D)4D	103364.840	2.5	4F(5D)3[3]	106.5792	-1.463	384.790	3.5	D6S (5D)6D	94211.739	2.5	4SP(5P)4P
105.6398	-4.937	384.790	3.5	D6S (5D)6D	95046.100	2.5	4P (3F)2F	106.5833	-4.509	8680.454	1.5	D6S (5D)4D	102503.810	1.5	4SP(3D)2D
105.6455	-4.016	13474.411	2.5	D7 (5D)4P	108130.600	2.5	220DD	106.5843	-1.337	862.613	1.5	D6S (5D)6D	94685.090	2.5	4SP(5D)6P
105.6483	-4.841	8680.454	1.5	D6S (5D)4D	103334.100	2.5	4SP(3D)2F	106.5995	-5.737	2430.097	3.5	D7 (5D)4F	96239.200	4.5	4SP(3G)2H
105.6604	-7.255	8391.938	2.5	D6S (5D)4D	103034.760	1.5	4F(5D)4[2]	106.6242	-6.050	2430.097	3.5	D7 (5D)4F	96217.420	3.5	4SP(5P)4D
105.6721	-7.089	8391.938	2.5	D6S (5D)4D	103024.290	2.5	4F(5D)4[2]	106.6455	-3.559	8680.454	1.5	D6S (5D)4D	102449.100	2.5	4SP(3D)2D
105.7188	-7.953	8846.768	0.5	D6S (5D)4D	103437.280	0.5	4F(5D)3[1]	106.6511	-5.912	384.790	3.5	D6S (5D)6D	94148.510	4.5	4SP(5G)4G
105.7403	-9.308	8846.768	0.5	D6S (5D)4D	103418.080	0.5	4F(5D)3[0]	106.6529	-1.614	977.053	0.5	D6S (5D)6D	94739.170	1.5	4SP(5P)4P
105.7405	-8.397	8846.768	0.5	D6S (5D)4D	103417.910	1.5	4F(5D)3[1]	106.6988	-2.993	13474.411	2.5	D7 (5D)4P	107196.200	2.5	180DD
105.7528	-6.979	8391.938	2.5	D6S (5D)4D	102952.120	2.5	4F(5D)4[3]	106.7336	-2.563	13474.411	2.5	D7 (5D)4P	107165.240	3.5	170DD
105.7639	-7.042	8391.938	2.5	D6S (5D)4D	102942.200	3.5	4F(5D)4[3]	106.7367	-3.815	384.790	3.5	D6S (5D)6D	94073.240	3.5	4SP(5G)4G
105.7703	-9.205	8846.768	0.5	D6S (5D)4D	103191.290	1.5	4F(5D)3[2]	106.7544	-0.770	384.790	3.5	D6S (5D)6D	94057.773	4.5	4SP(5D)6D
105.7995	-3.360	13673.185	1.5	D7 (5D)4P	10891.600	1.5	230DD	106.7725	-3.666	8846.768	0.5	D6S (5D)4D	102503.810	1.5	4SP(3D)2D
105.8255	-6.942	8391.938	2.5	D6S (5D)4D	102887.120	3.5	4F(5D)4[4]	106.8337	-4.950	384.790	3.5	D6S (5D)6D	93988.170	2.5	4SP(5G)4G
105.8270	-2.929	7955.299	3.5	D6S (5D)4D	102449.100	2.5	4SP(3D)2D	106.8346	-0.487	384.790	3.5	D6S (5D)6D	93987.457	3.5	4SP(5D)6D
105.8332	-4.183	2837.950	2.5	D7 (5D)4F	97326.270	1.5	4SP(3P)2P	106.8737	-6.056	18360.646	1.5	D7 (5D)2P	111929.000	2.5	290DD
105.8376	-6.978	1872.567	4.5	D7 (5D)4F	96356.960	3.5	4SP(3G)2F	106.8769	-4.234	2430.097	3.5	D7 (5D)4F	95995.690	2.5	4SP(5P)4D
105.8572	-3.457	13904.824	0.5	D7 (5D)4P	108371.700	1.5	250DD	106.9015	-2.460	667.683	2.5	D6S (5D)6D	94211.739	2.5	4SP(5P)4P
105.8678	-3.270	13673.185	1.5	D7 (5D)4P	108130.600	2.5	220DD	106.9256	-3.210	13673.185	1.5	D7 (5D)4P	107196.200	2.5	180DD
105.8815	-7.136	8680.454	1.5	D6S (5D)4D	103125.650	0.5	4F(5D)4[1]	106.9660	-4.504	0.000	4.5	D6S (5D)6D	96356.960	3.5	4SP(3G)2F
105.8982	-7.436	8680.454	1.5	D6S (5D)4D	103110.790	1.5	4F(5D)4[1]	107.0135	-1.602	384.790	3.5	D6S (5D)6D	93484.580	4.5	4P (3F)4F
105.9185	-3.011	13474.411	2.5	D7 (5D)4P	107886.600	3.5	200DD	107.0188	-5.525	2837.950	2.5	D7 (5D)4F	93830.979	2.5	4SP(5D)6D
105.9188	-4.594	667.683	2.5	D6S (5D)6D	95079.640	3.5	4P (3F)2F	107.0354	-5.337	15844.650	4.5	D7 (5D)2G	109271.710	5.5	4SP(31)2I
105.9364	-1.567	384.790	3.5	D6S (5D)6D	94763.219	3.5	4SP(5D)6P	107.0600	-5.215	667.683	2.5	D6S (5D)6D	94073.240	3.5	4SP(5G)4G
105.9564	-6.330	667.683	2.5	D6S (5D)6D	95046.100	2.5	4P (3P)2F	107.0792	-3.890	13474.411	2.5	D7 (5D)4P	106863.200	3.5	160DD
105.9642	-3.432	667.683	2.5	D6S (5D)6D	95039.200	1.5	4P (3P)2P	107.0899	-6.767	2837.950	2.5	D7 (5D)4F	96217.420	3.5	160DD
105.9697	-6.569	1872.567	4.5	D7 (5D)4F	96239.200	4.5	4SP(3G)2H	107.1247	-4.246	862.613	1.5	D6S (5D)6D	94211.739	2.5	4SP(5P)4D
105.9835	-7.319	8680.454	1.5	D6S (5D)4D	103034.760	1.5	4F(5D)4[2]	107.1576	-4.039	667.683	2.5	D6S (5D)6D	93988.170	2.5	4SP(5G)4G
105.9941	-3.860	1872.567	4.5	D7 (5D)4F	96217.420	3.5	4SP(5P)4D	107.1588	-0.689	667.683	2.5	D6S (5D)6D	93987.457	3.5	4SP(5D)6D
105.9953	-7.637	8680.454	1.5	D6S (5D)4D	103024.290	2.5	4F(5D)4[2]	107.1820	-3.865	1872.567	4.5	D7 (5D)4F	95079.640	3.5	4P (3F)2D
106.0267	-3.262	384.790	3.5	D6S (5D)6D	94700.660	2.5	4P (3F)2D	107.3169	-1.904	8391.938	2.5	D6S (5D)4D	101573.900	1.5	4SP(5D)4P
106.0442	-0.791	384.790	3.5	D6S (5D)6D	94685.090	2.5	4SP(5D)6P	107.3276	-1.499	667.683	2.5	D6S (5D)6D	93840.340	1.5	4SP(5D)6D
106.0594	-3.750	13904.824	0.5	D7 (5D)4P	108191.600	1.5	230DD	107.3321	-1.013	862.613	1.5	D6S (5D)6D	94031.378	0.5	4SP(5D)6D
106.0683	-9.292	8846.768	0.5	D6S (5D)4D	103125.650	0.5	4F(5D)4[1]	107.3399	-4.904	667.683	2.5	D6S (5D)6D	93830.979	2.5	4SP(3G)2F
106.0764	-7.552	8680.454	1.5	D6S (5D)4D	102952.120	2.5	4F(5D)4[3]	107.3448	-6.121	2837.950	2.5	D7 (5D)4F	95995.690	2.5	4SP(5P)4D
106.0850	-9.312	8846.768	0.5	D6S (5D)4D	103110.790	1.5	4F(5D)4[1]	107.3699	-4.757	0.000	4.5	D6S (5D)6D	93129.900	3.5	4P (3F)4D
106.1472	-4.791	3117.461	1.5	D7 (5D)4F	97326.270	1.5	4SP(3P)2P	107.3819	-4.792	862.613	1.5	D6S (5D)6D	93988.170	2.5	4SP(5G)4G
106.1685	-3.463	0.000	4.5	D6S (5D)6D	94189.880	5.5	4SP(5G)4G	107.4081	-3.133	384.790	3.5	D6S (5D)6D	93487.650	3.5	4P (3F)4F
106.1690	-5.004	1872.567	4.5	D7 (5D)4F	96062.060	5.5	4SP(3G)2H	107.4116	-3.331	384.790	3.5	D6S (5D)6D	93484.580	4.5	4P (3F)4F
106.1706	-9.366	8846.768	0.5	D6S (5D)4D	103034.760	1.5	4F(5D)4[2]	107.4216	-3.331	384.790	3.5	D6S (5D)6D	93487.650	3.5	4P (3F)4F
106.1757	-5.875	862.613	1.5	D6S (5D)6D	95046.100	2.5	4P (3F)2F	107.4216	-3.331	384.790	3.5	D6S (5D)6D	93487.650	3.5	4P (3F)4F
106.1835	-5.585	862.613	1.5	D6S (5D)6D	95039.200	1.5	4P (3F)2P	107.4216	-3.331	384.790	3.5	D6S (5D)6D	93487.650	3.5	4P (3F)4F
106.2152	-3.013	0.000	4.5	D6S (5D)6D	94148.510	4.5	4SP(5G)4G	107.4216	-3.331	384.790	3.5	D6S (5D)6D	93487.650	3.5	4P (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
107.4553	-4.919	15844.650	4.5	D7 (5D)2G	108906.640	3.5	4SP(3G)4H	108.5540	-5.012	15844.650	4.5	D7 (5D)2G	107964.700	4.5	210DD
107.4641	-1.552	977.053	0.5	D6S (5D)6D	94031.378	0.5	4SP(5D)6D	108.5579	-3.244	0.000	4.5	D6S (5D)6D	92116.780	4.5	4SP(5G)4H
107.4988	-4.025	15844.650	4.5	D7 (5D)2G	108868.980	4.5	4SP(3G)4H	108.5601	-4.750	1872.567	4.5	D7 (5D)4F	93987.457	3.5	4SP(5D)6D
107.5036	-4.692	2837.950	2.5	D7 (5D)4F	95858.050	1.5	4SP(5P)4D	108.5903	-4.437	0.000	4.5	D6S (5D)6D	92089.260	4.5	4SP(5G)4H
107.5147	-4.137	384.790	3.5	D6S (5D)6D	93395.360	2.5	4P (3F)4F	108.6458	-2.526	384.790	3.5	D6S (5D)6D	92426.980	4.5	4SP(5G)4F
107.5526	-1.348	862.613	1.5	D6S (5D)6D	93840.340	1.5	4SP(5D)6D	108.6461	-5.744	15844.650	4.5	D7 (5D)2G	107886.600	3.5	200DD
107.5635	-0.710	862.613	1.5	D6S (5D)6D	93809.979	2.5	4SP(5D)6D	108.6524	-3.577	862.613	1.5	D6S (5D)6D	92899.200	2.5	4P (3F)4D
107.5678	-4.210	15844.650	4.5	D7 (5D)2G	108809.310	5.5	4SP(3G)4H	108.6629	-4.055	667.683	2.5	D6S (5D)6D	92695.374	2.5	4P (3F)2D
107.5742	-2.422	8680.454	1.5	D6S (5D)4D	101573.900	1.5	4SP(5D)4F	108.6857	-2.755	8391.938	2.5	D6S (5D)4D	100400.360	2.5	4SP(3P)2D
107.6535	-4.408	1872.567	4.5	D7 (5D)4F	94763.219	3.5	4SP(5D)6P	108.6904	-3.595	16369.360	3.5	D7 (5D)2G	108373.800	3.5	260DD
107.6679	-6.303	3117.461	1.5	D7 (5D)4F	95995.690	2.5	4SP(5P)4D	108.7195	-5.100	667.683	2.5	D6S (5D)6D	92647.510	1.5	4P (3F)4D
107.6852	-0.794	977.053	0.5	D6S (5D)6D	93840.340	1.5	4SP(5D)6D	108.7606	-5.718	384.790	3.5	D6S (5D)6D	92329.890	2.5	4SP(5G)4F
107.7354	-5.369	667.683	2.5	D6S (5D)6D	93487.650	3.5	4P (3F)4F	108.7725	-3.639	667.683	2.5	D6S (5D)6D	92602.703	3.5	4P (3F)2G
107.7444	-4.950	15844.650	4.5	D7 (5D)2G	108631.090	3.5	4SP(3G)4G	108.7800	-6.526	3117.461	1.5	D7 (5D)4F	95046.100	2.5	4P (3F)2F
107.8224	-3.451	384.790	3.5	D6S (5D)6D	93129.900	3.5	4P (3F)4D	108.7840	-7.267	2837.950	2.5	D7 (5D)4F	94763.219	3.5	4SP(5D)6P
107.8277	-6.775	3117.461	1.5	D7 (5D)4F	95858.050	1.5	4SP(5P)4D	108.7882	-3.692	3117.461	1.5	D7 (5D)4F	95039.200	1.5	4P (3D)2P
107.8427	-3.065	667.683	2.5	D6S (5D)6D	93395.360	2.5	4P (3F)4F	108.7956	-0.940	384.790	3.5	D6S (5D)6D	92300.277	4.5	4SP(3D)6F
107.8433	-3.526	8846.768	0.5	D6S (5D)6D	101573.900	1.5	4SP(5D)4F	108.8125	-5.248	2837.950	2.5	D7 (5D)4F	94739.170	1.5	4SP(5P)4P
107.8447	-5.116	15844.650	4.5	D7 (5D)2G	108570.560	4.5	4SP(3G)4G	108.8167	-4.520	384.790	3.5	D6S (5D)6D	92282.460	3.5	4SP(5G)4F
107.8494	-2.276	8680.454	1.5	D6S (5D)4D	101402.380	0.5	4SP(5D)4F	108.8266	-4.484	384.790	3.5	D6S (5D)6D	92274.120	2.5	4P (3P)4P
107.9205	-4.300	667.683	2.5	D6S (5D)6D	93328.480	1.5	4P (3F)4F	108.8497	-5.961	16369.360	3.5	D7 (5D)2G	108239.200	3.5	240DD
107.9328	-5.499	3117.461	1.5	D7 (5D)4F	95767.700	0.5	4SP(5P)4D	108.8581	-3.787	2837.950	2.5	D7 (5D)4F	94700.660	2.5	4P (3F)2D
107.9336	-3.920	2430.097	3.5	D7 (5D)4F	95079.640	3.5	4P (3F)2F	108.8695	-4.679	7955.299	3.5	D6S (5D)6D	99808.400	3.5	4P (1G)2G
107.9456	-4.689	15844.650	4.5	D7 (5D)2G	108483.870	5.5	4SP(3G)4G	108.8766	-6.877	2837.950	2.5	D7 (5D)4F	95039.200	1.5	4P (3D)2P
107.9727	-4.514	2430.097	3.5	D7 (5D)4F	95046.100	2.5	4P (3F)2F	108.8936	-4.940	862.613	1.5	D6S (5D)6D	92695.374	2.5	4P (3P)2D
107.9882	-7.335	0.000	4.5	D6S (5D)6D	92602.703	3.5	4P (3F)2G	108.9303	-3.307	7955.299	3.5	D6S (5D)6D	92274.120	2.5	4P (3P)2D
108.0432	-2.404	8846.768	0.5	D6S (5D)6D	101402.380	0.5	4SP(5D)4F	108.9480	-5.092	384.790	3.5	D6S (5D)6D	92171.716	4.5	4P (3F)2G
108.0646	-4.147	16369.360	3.5	D7 (5D)2G	108906.640	3.5	4SP(3G)4H	108.9504	-6.301	862.613	1.5	D6S (5D)6D	92647.510	1.5	4P (3F)4D
108.0698	-3.912	862.613	1.5	D6S (5D)6D	93395.360	2.5	4P (3F)4F	108.9543	-4.546	2430.097	3.5	D7 (5D)4F	92154.165	3.5	4SP(3D)6F
108.0741	-5.896	15844.650	4.5	D7 (5D)2G	108373.800	3.5	260DD	108.9688	-1.280	384.790	3.5	D6S (5D)6D	92154.165	3.5	4SP(3D)6F
108.0913	-9.016	384.790	3.5	D6S (5D)6D	92899.200	2.5	4P (3F)4D	108.9761	-7.836	3117.461	1.5	D7 (5D)4F	94880.740	0.5	4SP(5P)4P
108.1086	-4.739	16369.360	3.5	D7 (5D)2G	108868.980	4.5	4SP(3G)4H	108.9785	-5.447	16369.360	3.5	D7 (5D)2G	108130.600	2.5	200DD
108.1480	-3.888	862.613	1.5	D6S (5D)6D	93328.480	1.5	4P (3F)4F	109.0026	-2.515	384.790	3.5	D6S (5D)6D	92116.780	4.5	4SP(5G)4H
108.1523	-6.112	667.683	2.5	D6S (5D)6D	93129.900	3.5	4P (3F)4D	109.0276	-3.057	8680.454	1.5	D6S (5D)4D	100400.360	2.5	4SP(3P)2D
108.1724	-8.167	7955.299	3.5	D6S (5D)4D	100400.360	2.5	4SP(3P)2D	109.0294	-3.887	2430.097	3.5	D7 (5D)4F	94148.510	4.5	4SP(5G)4G
108.1875	-0.776	0.000	4.5	D6S (5D)6D	92432.136	5.5	4SP(5D)6F	109.0459	-2.389	384.790	3.5	D6S (5D)6D	92089.260	3.5	4SP(5G)4H
108.1935	-3.167	0.000	4.5	D6S (5D)6D	92426.980	4.5	4SP(5G)4F	109.0537	-3.966	7955.299	3.5	D6S (5D)4D	99653.220	4.5	4SP(3G)2G
108.2315	-5.588	15844.650	4.5	D7 (5D)2G	108239.200	3.5	240DD	109.0620	-5.033	667.683	2.5	D6S (5D)6D	92358.610	1.5	4SP(5G)4F
108.2820	-4.869	977.053	0.5	D6S (5D)6D	93328.480	1.5	4P (3F)4F	109.0748	-6.495	7955.299	3.5	D6S (5D)6D	99635.520	3.5	4SP(3G)2G
108.3035	-6.896	2430.097	3.5	D7 (5D)4F	94763.219	3.5	4SP(5D)6P	109.0864	-4.237	977.053	0.5	D6S (5D)6D	92647.510	1.5	4P (3F)4D
108.3220	-3.722	1872.567	4.5	D7 (5D)4F	94189.880	5.5	4SP(5G)4G	109.0962	-3.364	667.683	2.5	D6S (5D)6D	92329.890	2.5	4SP(5G)4G
108.3420	-1.513	0.000	4.5	D6S (5D)6D	92300.277	4.5	4SP(5D)6F	109.1189	-3.985	2430.097	3.5	D7 (5D)4F	94073.240	3.5	4SP(5G)4G
108.3630	-6.463	0.000	4.5	D6S (5D)6D	92282.460	3.5	4SP(5G)4F	109.1299	-2.623	384.790	3.5	D6S (5D)6D	92018.729	2.5	4SP(5D)6F
108.3706	-4.211	1872.567	4.5	D7 (5D)4F	94148.510	4.5	4SP(5G)4G	109.1373	-4.854	2430.097	3.5	D7 (5D)4F	94057.773	4.5	4SP(5D)6D
108.3873	-5.096	16369.360	3.5	D7 (5D)2G	108631.090	3.5	4SP(3G)4G	109.1444	-4.897	3117.461	1.5	D7 (5D)4F	94739.170	1.5	4SP(3P)4P
108.3895	-4.735	16369.360	3.5	D7 (5D)2G	108629.250	2.5	4SP(3G)4G	109.1523	-1.559	1872.567	4.5	D7 (5D)4F	93487.650	3.5	4P (3F)4F
108.3952	-5.206	2430.097	3.5	D7 (5D)4F	94685.090	2.5	4SP(5D)6P	109.1527	-3.298	667.683	2.5	D6S (5D)6D	92282.460	3.5	4SP(5G)4F
108.4108	-5.106	2837.950	2.5	D7 (5D)4F	95079.640	3.5	4P (3F)2F	109.1560	-1.298	1872.567	4.5	D7 (5D)4F	93484.580	4.5	4P (3F)4F
108.4228	-4.194	667.683	2.5	D6S (5D)6D	92899.200	2.5	4P (3F)4D	109.1626	-3.672	667.683	2.5	D6S (5D)6D	92274.120	2.5	4P (3P)4P
108.4388	-5.875	384.790	3.5	D6S (5D)6D	92602.703	3.5	4P (3F)2G	109.1759	-6.662	16369.360	3.5	D7 (5D)2G	107964.700	4.5	210DD
108.4503	-4.598	2837.950	2.5	D7 (5D)4F	95046.100	2.5	4P (3F)2F	109.1812	-5.327	862.613	1.5	D6S (5D)6D	92453.460	0.5	4P (3F)4D
108.4585	-5.019	16369.360	3.5	D7 (5D)2G	95039.200	1.5	4P (3P)2P	109.1903	-4.599	3117.461	1.5	D7 (5D)4F	94700.660	2.5	4P (3F)2D
108.4591	-5.095	1872.567	4.5	D7 (5D)4F	108570.560	4.5	4SP(3G)4G	109.2089	-7.930	3117.461	1.5	D7 (5D)4F	94685.090	2.5	4SP(5D)6P
108.4773	-3.733	1872.567	4.5	D7 (5D)4F	94073.240	3.5	4SP(5G)4G	109.2203	-5.051	2430.097	3.5	D7 (5D)4F	93988.170	2.5	4SP(5G)4G
108.4932	-3.675	0.000	4.5	D6S (5D)6D	92171.716	4.5	4P (3F)2G	109.2206	-5.346	667.683	2.5	D6S (5D)6D	92225.538	1.5	5P (5D)4P
108.4992	-2.372	0.000	4.5	D6S (5D)6D	92166.600	5.5	4SP(5G)4H	109.2211	-4.001	2430.097	3.5	D7 (5D)4F	93987.457	3.5	4SP(5D)6D
108.5138	-3.306	0.000	4.5	D6S (5D)6D	92154.165	3.5	4SP(5D)6F	109.2249	-5.888	13474.411	2.5	D7 (5D)4F	105028.600	3.5	4SP(31)4H
								109.2231	-5.679	667.683	2.5	D6S (5D)6D	92216.320	1.5	4P (3F)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
109.2690	-5.114	16369.360	3.5	D7 (5D)2G	107886.600	3.5	200DD	110.2372	-5.416	3117.461	1.5	D7 (5D)4F	93830.979	2.5	4SP(5D)6D
109.2944	-4.164	862.613	1.5	D6S (5D)6D	92358.610	1.5	48P(5G)4F	110.2384	-1.354	862.163	1.5	D6S (5D)6D	91575.139	2.5	5P (5D)6P
109.3058	-1.154	667.683	2.5	D6S (5D)6D	92154.165	3.5	48P(5D)6F	110.2538	-1.843	2430.097	3.5	D7 (5D)4F	93129.900	3.5	4P (3F)4D
109.3178	-6.066	977.053	0.5	D6S (5D)6D	92453.460	0.5	4P (3F)4D	110.2709	-2.510	384.790	3.5	D6S (5D)6D	91070.547	2.5	5P (5D)4F
109.3287	-5.844	862.613	1.5	D6S (5D)6D	92329.890	2.5	48P(5G)4F	110.3148	-2.446	2837.950	2.5	D7 (5D)4F	93487.650	3.5	4P (3F)4F
109.3468	-3.712	862.613	1.5	D6S (5D)6D	92314.758	0.5	5P (5D)4F	110.3249	-4.196	7955.299	3.5	D6S (5D)4D	948596.650	4.5	4SP(5D)4F
109.3834	-2.271	667.683	2.5	D6S (5D)6D	92089.260	3.5	48P(5G)4H	110.3302	-5.078	16369.360	3.5	D7 (5D)2G	107006.350	4.5	4SP(3I)2H
109.3860	-2.537	18360.646	1.5	D7 (5D)2P	109780.000	1.5	280DD	110.3497	-4.419	21308.040	1.5	D7 (5D)2D	111923.000	2.5	290DD
109.3895	-4.305	8391.938	2.5	D6S (5D)4D	99808.400	3.5	4P (1G)2G	110.3990	-2.272	7955.299	3.5	D6S (5D)4D	98535.850	3.5	4SP(5D)4F
109.3948	-4.980	20516.960	2.5	D7 (5D)2D	111929.600	2.5	290DD	110.4095	-2.004	13474.411	2.5	D7 (5D)4F	104046.350	2.5	4F(5D)013]
109.3954	-3.279	862.613	1.5	D6S (5D)6D	92274.120	2.5	4P (3F)4P	110.4246	-4.551	1872.567	4.5	D7 (5D)4F	92432.136	5.5	4SP(5D)6F
109.4081	-4.231	2430.097	3.5	D7 (5D)4F	93830.979	2.5	48P(5D)6D	110.4272	-1.918	2837.950	2.5	D7 (5D)4F	93395.360	2.5	4P (3F)4F
109.4313	-6.193	977.053	0.5	D6S (5D)6D	92358.610	1.5	48P(5G)4F	110.4308	-1.281	1872.567	4.5	D7 (5D)4F	92428.980	4.5	4SP(5G)4F
109.4406	-5.513	2837.950	2.5	D7 (5D)4F	94211.739	2.5	48P(5F)4P	110.4365	-2.306	7955.299	3.5	D6S (5D)4D	98505.100	2.5	4SP(5D)4D
109.4536	-3.620	862.613	1.5	D6S (5D)6D	92225.538	1.5	5P (5D)4P	110.4381	-2.269	13474.411	2.5	D7 (5D)4F	104022.890	3.5	4F(5D)013]
109.4646	-5.646	862.613	1.5	D6S (5D)6D	92216.320	1.5	4P (3F)2D	110.4470	-3.825	667.683	2.5	D6S (5D)6D	91208.887	1.5	5P (5D)4F
109.4678	-1.170	667.683	2.5	D6S (5D)6D	92018.729	2.5	48P(5D)6F	110.4773	-4.345	384.790	3.5	D6S (5D)6D	90901.124	2.5	5P (5D)4P
109.4838	-4.956	977.053	0.5	D6S (5D)6D	92314.758	0.5	5P (5D)4P	110.4807	-2.736	13474.411	2.5	D7 (5D)4F	103987.930	2.5	4F(5D)113]
109.5039	-7.302	15844.650	4.5	D7 (5D)2G	107165.600	3.5	170DD	110.4890	-4.948	8391.938	2.5	D6S (5D)4D	98898.710	3.5	4P (1G)2F
109.5082	-1.640	1872.567	4.5	D7 (5D)4F	93129.900	3.5	4P (3F)4D	110.4969	-1.721	667.683	2.5	D6S (5D)6D	91167.937	3.5	5P (5D)6P
109.5909	-3.217	977.053	0.5	D6S (5D)6D	92225.538	1.5	5P (5D)4P	110.5029	-3.095	13474.411	2.5	D7 (5D)4P	103969.760	3.5	4F(5D)113]
109.5911	-2.900	667.683	2.5	D6S (5D)6D	91915.950	1.5	48P(3G)2F	110.5048	-7.922	16369.360	3.5	D7 (5D)2G	106863.200	3.5	160DD
109.5967	-4.327	8391.938	2.5	D6S (5D)4D	99635.520	3.5	48P(5D)6F	110.5088	-2.369	2837.950	2.5	D7 (5D)4F	93328.480	1.5	4P (3F)4F
109.6019	-5.335	977.053	0.5	D6S (5D)6D	92216.320	1.5	4P (3F)2D	110.5350	-1.578	2430.097	3.5	D7 (5D)4F	92899.200	2.5	4P (3F)4D
109.6067	-4.093	2837.950	2.5	D7 (5D)4F	94073.240	3.5	48P(5G)4G	110.5754	-0.853	7955.299	3.5	D6S (5D)4D	98391.330	3.5	4SP(5D)4D
109.6607	-0.505	384.790	3.5	D6S (5D)6D	91575.139	2.5	5P (5D)6P	110.5856	-4.639	1872.567	4.5	D7 (5D)4F	93200.277	4.5	4SP(5D)6F
109.6782	-0.955	667.683	2.5	D6S (5D)6D	91843.470	1.5	5P (5D)6P	110.5958	-3.458	18360.646	1.5	D7 (5D)2P	108780.000	1.5	270DD
109.6877	-0.189	0.000	4.5	D6S (5D)6D	91167.937	3.5	5P (5D)6P	110.6074	-2.950	1872.567	4.5	D7 (5D)4F	92282.460	3.5	4SP(5G)4F
109.6952	-4.680	15844.650	4.5	D7 (5D)2G	107006.350	4.5	48P(3I)2H	110.6094	-2.224	13474.411	2.5	D7 (5D)4P	103882.680	3.5	4F(5D)114]
109.7019	-1.381	862.613	1.5	D6S (5D)6D	92018.729	2.5	48P(5D)6F	110.6160	-2.453	667.683	2.5	D6S (5D)6D	91070.547	2.5	5P (5D)4F
109.7090	-4.146	2837.950	2.5	D7 (5D)4F	93988.170	2.5	48P(5G)4G	110.6203	-2.410	7955.299	3.5	D6S (5D)4D	98354.660	2.5	4SP(5D)4F
109.7099	-4.770	20830.582	2.5	D6S (3P)4F	93987.457	3.5	48P(5D)6D	110.6221	-5.409	0.000	4.5	D6S (5D)6D	90397.868	3.5	5P (5D)4D
109.7714	-6.223	3117.461	1.5	D7 (5D)4F	94211.739	2.5	48P(5F)4P	110.6246	-1.854	384.790	3.5	D6S (5D)6D	90780.621	3.5	5P (5D)4F
109.8207	-1.829	2430.097	3.5	D7 (5D)4F	93487.650	3.5	4P (3F)4F	110.6399	-2.948	13474.411	2.5	D7 (5D)4P	103869.020	1.5	4F(5D)112]
109.8244	-2.313	2430.097	3.5	D7 (5D)4F	93484.580	4.5	4P (3F)4F	110.6432	-3.154	0.000	4.5	D6S (5D)6D	90386.528	4.5	5P (5D)4F
109.8257	-1.098	862.613	1.5	D6S (5D)6D	91915.950	1.5	48P(5D)6F	110.6461	-1.775	13474.411	2.5	D7 (5D)4F	103857.740	2.5	4F(5D)112]
109.8677	-5.962	15844.650	4.5	D7 (5D)2G	106863.200	3.5	160DD	110.6461	-1.806	667.683	2.5	D6S (5D)6D	91048.256	1.5	5P (5D)4D
109.8872	-5.449	2837.950	2.5	D7 (5D)4F	93840.340	1.5	48P(5D)6D	110.6523	-1.117	8391.938	2.5	D6S (5D)4D	98770.140	1.5	4SP(5D)4D
109.8985	-4.893	2837.950	2.5	D7 (5D)4F	93830.979	2.5	48P(5D)6D	110.6523	-1.117	13673.185	1.5	D7 (5D)4P	104046.350	2.5	4SP(5D)013]
109.9045	-1.990	862.613	1.5	D6S (5D)6D	91850.722	0.5	48P(5D)6F	110.6853	-2.774	862.613	1.5	D6S (5D)6D	91208.887	1.5	5P (5D)4F
109.9132	-1.100	862.613	1.5	D6S (5D)6D	91850.722	0.5	48P(5D)6F	110.6965	-4.424	862.613	1.5	D6S (5D)6D	91199.746	0.5	5P (5D)4D
109.9321	-1.902	2430.097	3.5	D7 (5D)4F	93395.360	2.5	4P (3F)4F	110.7086	-1.856	8680.454	1.5	D6S (5D)4D	99007.700	0.5	4SP(5D)4D
109.9585	-4.174	7955.299	3.5	D6S (5D)4D	98898.710	3.5	4P (1G)2F	110.7239	-2.255	13673.185	1.5	D7 (5D)4P	103987.930	2.5	4F(5D)113]
109.9639	-2.071	977.053	0.5	D6S (5D)6D	91151.950	1.5	48P(5D)6F	110.7412	-2.929	0.000	4.5	D6S (5D)6D	90300.625	3.5	5P (5D)6F
109.9942	-6.949	3117.461	1.5	D7 (5D)4F	94031.378	0.5	48P(5D)6D	110.7430	-1.807	1872.567	4.5	D7 (5D)4F	92171.716	4.5	4P (3F)2G
110.0020	-0.853	667.683	2.5	D6S (5D)6D	91575.139	2.5	5P (5D)6P	110.7490	-4.061	13673.185	1.5	D7 (5D)4P	103967.490	0.5	4SP(3P)2S
110.0192	-3.115	18886.780	0.5	D7 (5D)2P	109780.000	1.5	280DD	110.7518	-2.815	1872.567	4.5	D7 (5D)4F	92166.600	5.5	4SP(5G)4H
110.0429	-1.486	977.053	0.5	D6S (5D)6D	91850.722	0.5	48P(5D)6F	110.7493	-5.916	1872.567	4.5	D7 (5D)4F	92154.165	3.5	4SP(5D)6F
110.0465	-4.180	3117.461	1.5	D7 (5D)4F	93988.170	2.5	48P(5G)4G	110.7645	-2.815	1872.567	4.5	D7 (5D)4F	93129.900	3.5	4P (3F)4D
110.0517	-1.097	977.053	0.5	D6S (5D)6D	91843.470	1.5	5P (5D)6P	110.7805	-4.805	18360.646	1.5	D7 (5D)2P	93395.360	2.5	4P (3F)4F
110.0770	-5.823	15844.650	4.5	D7 (5D)2G	106796.200	2.5	180DD	110.7846	-2.760	2430.097	3.5	D7 (5D)4F	108629.250	2.5	4SP(3G)4G
110.0996	-7.240	16369.360	3.5	D7 (5D)2G	107196.200	2.5	180DD	110.7984	-5.656	384.790	3.5	D6S (5D)6D	92695.374	2.5	4P (3P)2D
110.1367	-6.188	16369.360	3.5	D7 (5D)2G	107165.600	3.5	170DD	110.7691	-2.542	3117.461	1.5	D7 (5D)4F	93200.277	4.5	4SP(5D)4D
110.1526	-0.922	384.790	3.5	D6S (5D)6D	91167.937	3.5	5P (5D)6P	110.7805	-4.805	18360.646	1.5	D7 (5D)2P	92695.374	2.5	4P (3P)2D
110.1557	-2.585	0.000	4.5	D6S (5D)6D	90780.621	3.5	5P (5D)4P	110.8104	-2.748	1872.567	4.5	D7 (5D)4F	92695.374	2.5	4P (3P)2D
110.1577	-0.922	384.790	3.5	D6S (5D)6D	91167.937	3.5	5P (5D)6P	110.8191	-1.237	13474.411	2.5	D7 (5D)4P	108629.250	2.5	4SP(3G)4G
110.2170	-2.785	1872.567	4.5	D7 (5D)4F	92602.703	3.5	4P (3F)2G	110.8237	-2.660	667.683	2.5	D6S (5D)6D	90901.124	2.5	5P (5D)4F
110.2258	-8.079	3117.461	1.5	D7 (5D)4F	93840.340	1.5	48P(5D)6D	110.8256	-3.172	977.053	0.5	D6S (5D)6D	91208.887	1.5	5P (5D)4F
										667.683	2.5	D6S (5D)6D	90898.873	1.5	4P (3P)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
110.8352	-1.921	13474.411	2.5	D7 (5D)4P	103698.440	2.5	4F(5D)2[13]	111.2466	-6.085	0.000	4.5	D6S (5D)6D	89890.373	3.5	4P (3F)4G
110.8369	-5.012	977.053	0.5	D6S (5D)6D	91199.746	0.5	5P (5D)4D	111.2716	-4.639	2430.097	3.5	D7 (5D)4F	92300.277	4.5	4SP(5D)6F
110.8438	-1.631	21711.917	3.5	D6S (3H)4H	111929.000	2.5	290DD	111.2765	-1.743	13474.411	2.5	D7 (5D)4P	103340.640	3.5	4F(5D)3[4]
110.8504	-5.611	1872.567	4.5	D7 (5D)4F	90211.700	5.5	4SP(5G)4H	111.2812	-4.938	977.053	0.5	D6S (5D)6D	90839.480	0.5	4P (3P)4P
110.8512	-2.044	3117.461	1.5	D7 (5D)4F	93328.480	1.5	4P (3F)4F	111.2846	-5.911	13474.411	2.5	D7 (5D)4F	103334.100	2.5	4SP(3D)2F
110.8550	-2.296	862.613	1.5	D6S (5D)6D	91070.547	2.5	5P (5D)4F	111.2874	-3.199	2837.950	2.5	D7 (5D)4F	92695.374	2.5	4P (3P)2D
110.8618	-2.307	13474.411	2.5	D7 (5D)4P	90369.020	1.5	4F(5D)1[2]	111.2937	-1.541	2430.097	3.5	D7 (5D)4F	92282.460	3.5	4SP(5G)4F
110.8699	-2.308	13673.185	1.5	D7 (5D)4P	103869.020	1.5	4F(5D)1[2]	111.3040	-2.766	2430.097	3.5	D7 (5D)4F	92274.120	2.5	4P (3P)4P
110.8718	-4.129	13474.411	2.5	D7 (5D)4P	103668.690	1.5	4F(5D)2[11]	111.3202	-4.126	18360.646	1.5	D7 (5D)2P	108191.600	1.5	230DD
110.8813	-2.026	13474.411	2.5	D7 (5D)4P	103660.980	2.5	4F(5D)2[2]	111.3280	-1.633	8680.454	1.5	D6S (5D)4D	98505.100	2.5	4SP(5D)4D
110.8824	-3.429	862.613	1.5	D6S (5D)6D	91048.256	1.5	5P (5D)4D	111.3336	-1.367	667.683	2.5	D6S (5D)6D	90487.810	2.5	5P (5D)6F
110.8837	-2.134	13673.185	1.5	D7 (5D)4P	103857.740	2.5	4F(5D)1[2]	111.3467	-1.518	2837.950	2.5	D7 (5D)4F	92647.510	1.5	4P (3F)4D
110.8984	-1.515	2430.097	3.5	D7 (5D)4F	92602.703	3.5	4P (3F)2G	111.3535	-6.066	8391.938	2.5	D6S (5D)4D	98196.000	1.5	4SP(5D)4F
110.9006	-2.396	13474.411	2.5	D7 (5D)4P	103645.220	1.5	4F(5D)2[2]	111.3764	-2.139	862.613	1.5	D6S (5D)6D	90648.217	0.5	5P (5D)6F
110.9128	-1.692	8846.768	0.5	D6S (5D)4D	99007.700	0.5	4SP(5D)4D	111.3812	-3.667	3117.461	1.5	D7 (5D)4F	92899.220	2.5	4P (3F)4D
110.9337	-2.809	8391.938	2.5	D6S (5D)4D	98535.850	3.5	4SP(5D)4F	111.3881	-2.331	862.613	1.5	D6S (5D)6D	90638.822	2.5	5P (5D)4D
110.9669	-4.631	21812.055	1.5	D6S (3P)4P	111929.000	2.5	290DD	111.3941	-1.718	13904.824	0.5	D7 (5D)4P	103676.220	0.5	4F(5D)2[11]
110.9716	-1.333	8391.938	2.5	D6S (5D)4D	98505.100	2.5	4SP(5D)4D	111.3958	-4.742	18360.646	1.5	D7 (5D)2P	108130.600	2.5	220DD
110.9719	-1.822	667.683	2.5	D6S (5D)6D	90780.621	3.5	5P (5D)4F	111.3992	-4.701	862.613	1.5	D6S (5D)6D	90629.902	1.5	4P (3P)4S
110.9841	-2.275	384.790	3.5	D6S (5D)6D	90487.810	2.5	5P (5D)6F	111.4023	-2.326	2837.950	2.5	D7 (5D)4F	92602.703	3.5	4P (3F)2G
111.0005	-1.416	8680.454	1.5	D6S (5D)4D	98770.140	1.5	4SP(5D)4D	111.4031	-3.361	13673.185	1.5	D7 (5D)4P	103437.280	0.5	4F(5D)3[11]
111.0233	-3.446	977.053	0.5	D6S (5D)6D	91048.256	1.5	5P (5D)4D	111.4034	-1.977	13904.824	0.5	D7 (5D)4P	103668.690	1.5	4F(5D)2[11]
111.0280	-1.429	0.000	4.5	D6S (5D)6D	90067.347	4.5	5P (3D)6F	111.4270	-2.050	13673.185	1.5	D7 (5D)4P	103418.080	0.5	4F(5D)3[0]
111.0338	-5.059	13904.824	0.5	D7 (5D)4P	103967.490	0.5	4SP(3F)2S	111.4272	-6.611	13673.185	1.5	D7 (5D)4P	103417.910	1.5	4F(5D)3[11]
111.0355	-2.332	2837.950	2.5	D7 (5D)4F	92899.200	2.5	4P (3F)4D	111.4310	-3.053	2430.097	3.5	D7 (5D)4F	92171.716	4.5	4P (3F)2G
111.0583	-6.644	0.000	4.5	D6S (5D)6D	90042.779	4.5	4P (3F)4G	111.4416	-2.972	13673.185	1.5	D7 (5D)4P	103645.220	1.5	4F(5D)2[2]
111.0636	-5.770	862.613	1.5	D6S (5D)6D	90901.124	2.5	5P (5D)4D	111.4432	-2.204	13904.824	0.5	D7 (5D)4P	103645.220	1.5	4F(5D)2[2]
111.0664	-3.215	862.613	1.5	D6S (5D)6D	90988.873	1.5	4P (3P)4P	111.4443	-1.463	862.613	1.5	D6S (5D)6D	90593.497	1.5	5P (5D)4D
111.0799	-2.420	13673.185	1.5	D7 (5D)4P	103698.440	2.5	4F(5D)2[13]	111.4452	-1.543	667.683	2.5	D6S (5D)6D	90397.868	3.5	5P (5D)4D
111.0950	-1.654	384.790	3.5	D6S (5D)6D	90397.868	3.5	5P (5D)4D	111.4528	-4.835	2430.097	3.5	D7 (5D)4F	92154.165	3.5	4SP(5D)6F
111.0975	-5.377	18360.646	1.5	D7 (5D)2P	108371.700	1.5	250DD	111.4602	-2.068	13673.185	1.5	D7 (5D)4P	103391.290	1.5	4F(5D)3[21]
111.1074	-3.592	13673.185	1.5	D7 (5D)4P	103676.220	0.5	4F(5D)2[11]	111.4712	-7.715	13474.411	2.5	D7 (5D)4P	103183.700	3.5	4SP(3D)2F
111.1090	-1.387	384.790	3.5	D6S (5D)6D	90386.528	4.5	5P (5D)4F	111.4931	-2.372	13673.185	1.5	D7 (5D)4P	103364.840	2.5	4F(5D)3[31]
111.1119	-1.464	8391.938	2.5	D6S (5D)4D	98391.330	3.5	4SP(5D)4D	111.4993	-4.032	2430.097	3.5	D7 (5D)4F	92116.780	4.5	4SP(5G)4H
111.1150	-2.284	2430.097	3.5	D7 (5D)4F	92426.980	4.5	4SP(5G)4F	111.5044	-1.004	384.790	3.5	D6S (5D)6D	90067.347	4.5	5P (5D)6F
111.1167	-2.375	13673.185	1.5	D7 (5D)4P	103668.690	1.5	4F(5D)2[11]	111.5148	-1.684	8680.454	1.5	D6S (5D)4D	98354.660	2.5	4SP(5D)4F
111.1262	-3.086	13673.185	1.5	D7 (5D)4P	103660.980	2.5	4F(5D)2[2]	111.5186	-1.683	977.053	0.5	D6S (5D)6D	90648.217	0.5	5P (5D)6F
111.1397	-5.397	862.613	1.5	D6S (5D)6D	90839.480	0.5	4P (3P)4P	111.5313	-5.946	13673.185	1.5	D7 (5D)4P	103334.100	2.5	4SP(3D)2F
111.1456	-3.306	13673.185	1.5	D7 (5D)4P	103645.220	1.5	4F(5D)2[2]	111.5335	-4.570	2430.097	3.5	D7 (5D)4F	92089.260	3.5	4SP(5G)4H
111.1468	-2.074	13904.824	0.5	D7 (5D)4P	90369.020	1.5	4F(5D)1[2]	111.5350	-5.221	384.790	3.5	D6S (5D)6D	90042.779	4.5	4P (3F)4G
111.1553	-1.427	8391.938	2.5	D6S (5D)4D	98354.660	2.5	4SP(5D)4F	111.5518	-2.091	13474.411	2.5	D7 (5D)4P	103110.790	1.5	4F(5D)4[11]
111.1572	-1.373	862.613	1.5	D6S (5D)6D	90629.902	1.5	4P (3P)4S	111.5618	-1.541	667.683	2.5	D6S (5D)6D	90300.625	3.5	5P (5D)6F
111.1578	-4.044	667.683	2.5	D6S (5D)6D	90369.020	1.5	4F(5D)1[2]	111.5758	-1.591	862.613	1.5	D6S (5D)6D	90487.810	2.5	5P (5D)6F
111.1774	-2.698	13474.411	2.5	D7 (5D)4P	103417.910	1.5	4F(5D)3[11]	111.5867	-1.884	977.053	0.5	D6S (5D)6D	90593.497	1.5	5P (5D)6F
111.1809	-2.617	13474.411	2.5	D7 (5D)4P	103406.250	2.5	4F(5D)3[12]	111.6213	-5.991	2430.097	3.5	D7 (5D)4F	92018.729	2.5	4SP(5D)6F
111.1953	-1.684	667.683	2.5	D6S (5D)6D	90593.497	1.5	5P (5D)6F	111.6347	-3.780	3117.461	1.5	D7 (5D)4F	92695.374	2.5	4P (3P)2D
111.2028	-2.074	0.000	4.5	D6S (5D)6D	89924.175	5.5	5P (5D)6F	111.6566	-2.037	13474.411	2.5	D7 (5D)4P	103034.760	1.5	4F(5D)4[2]
111.2048	-0.701	8846.768	0.5	D6S (5D)4D	98770.140	1.5	4SP(5D)4D	111.6696	-1.765	13474.411	2.5	D7 (5D)4P	103024.290	2.5	4F(5D)4[2]
111.2058	-1.587	977.053	0.5	D6S (5D)6D	90898.873	1.5	4P (3P)4P	111.6913	-1.722	13904.824	0.5	D7 (5D)4P	103437.280	0.5	4F(5D)3[11]
111.2077	-3.257	13474.411	2.5	D7 (5D)4P	103391.290	1.5	4F(5D)3[12]	111.6943	-3.213	3117.461	1.5	D7 (5D)4F	92647.510	1.5	4P (3F)4D
111.2138	-2.067	384.790	3.5	D6S (5D)6D	90300.625	3.5	5P (5D)6F	111.7061	-2.782	2837.950	2.5	D7 (5D)4F	92358.610	1.5	4SP(5G)4F
111.2151	-1.497	13474.411	2.5	D7 (5D)4P	103385.730	3.5	4F(5D)3[3]	111.7124	-4.362	8680.454	1.5	D6S (5D)4D	98196.000	1.5	4SP(5D)4F
111.2207	-1.394	2430.097	3.5	D7 (5D)4P	92329.890	2.5	4SP(5G)4F	111.7153	-3.075	13904.824	0.5	D7 (5D)4P	103418.080	0.5	4F(5D)3[0]
111.2350	-2.105	7955.299	3.5	D6S (5D)4D	97851.350	4.5	4P (1G)2H	111.7155	-2.206	13904.824	0.5	D7 (5D)4P	103417.910	1.5	4F(5D)3[11]
111.2396	-7.349	18886.780	0.5	D7 (5D)2P	108780.000	1.5	270DD	111.7249	-5.271	384.790	3.5	D6S (5D)6D	89890.373	3.5	4P (3F)4G
111.2431	-3.320	13474.411	2.5	D7 (5D)4P	103364.840	2.5	4F(5D)3[13]	111.7419	-1.524	2837.950	2.5	D7 (5D)4F	92329.890	2.5	4SP(5G)4F
111.2465	-1.727	13474.411	2.5	D7 (5D)4P											

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL			
111.7424	-2.667	8846.768	0.5	D6S	(5D)4D	98338.280	1.5	4SP(5P)4S	112.6007	-3.370	20340.300	5.5	D7	(5D)2H	109149.680	6.5	4SP(3I)2I	
111.7487	-3.019	13904.824	0.5	D7	(5D)4P	103391.290	1.5	4F(5D)3I2I	112.6145	-5.373	3117.461	1.5	D7	(5D)4F	91915.950	1.5	4SP(5D)6F	
111.7507	-6.758	18886.780	0.5	D7	(5D)2P	108371.700	1.5	2500D	112.6421	-0.864	667.683	2.5	D6S	(5D)6D	89444.458	2.5	4SP(5P)6P	
111.7597	-1.709	13474.411	2.5	D7	(5D)4P	102932.120	2.5	4F(5D)4I3I	112.6432	-4.742	13673.185	1.5	D7	(5D)4P	102449.100	2.5	4SP(3D)2D	
111.7721	-1.798	13474.411	2.5	D7	(5D)4P	102942.200	3.5	4F(5D)4I3I	112.6591	-0.932	862.163	1.5	D6S	(5D)6D	89625.940	1.5	4SP(5P)6P	
111.7912	-1.600	13673.185	1.5	D7	(5D)4P	103125.650	0.5	4F(5D)4I1I	112.6840	-1.007	384.790	3.5	D6S	(5D)6D	9128.561	3.5	4SP(5P)6P	
111.8012	-2.276	2837.950	2.5	D7	(5D)4F	92282.460	3.5	4SP(5G)4F	112.6915	-4.405	2430.097	3.5	D7	(5D)4F	91167.937	3.5	5P	
111.8098	-1.816	13673.185	1.5	D7	(5D)4P	103110.790	1.5	4F(5D)4I1I	112.6923	-4.965	2837.950	2.5	D7	(5D)4F	91575.139	2.5	5P	
111.8116	-1.711	2837.950	2.5	D7	(5D)4F	92274.120	2.5	4P	(3P)4P	112.6955	-1.186	384.790	3.5	D6S	(5D)6D	89119.457	2.5	5P
111.8409	-1.750	13474.411	2.5	D7	(5D)4P	102887.120	3.5	4F(5D)4I4I	112.6973	-4.719	3117.461	1.5	D7	(5D)4F	91850.722	0.5	4SP(5D)6F	
111.8724	-2.789	2837.950	2.5	D7	(5D)4P	92225.538	1.5	5P	(5D)4P	112.7065	-6.286	3117.461	1.5	D7	(5D)4F	91843.470	1.5	5P
111.8839	-4.289	2837.950	2.5	D7	(5D)4P	92216.320	1.5	4P	(3P)2D	112.7098	-1.845	0.000	4.5	D6S	(5D)6D	88723.400	4.5	5P
111.9049	-1.725	13673.185	1.5	D7	(5D)4P	103034.760	1.5	4F(5D)4I2I	112.7860	-1.489	667.683	2.5	D6S	(5D)6D	89331.195	1.5	5P	
111.9180	-2.043	13673.185	1.5	D7	(5D)4P	103024.290	2.5	4F(5D)4I2I	112.7914	-5.345	16369.360	3.5	D7	(5D)2G	105028.600	3.5	4SP(3I)4H	
111.9204	-5.617	8846.768	0.5	D6S	(5D)4D	98196.000	1.5	4SP(5D)4I	112.8046	-0.969	977.053	0.5	D6S	(5D)6D	89625.940	1.5	4SP(5P)6P	
111.9287	-5.434	384.790	3.5	D6S	(5D)6D	89727.342	2.5	4P	(3F)4G	112.8085	-2.202	8680.454	1.5	D6S	(5D)4D	97326.270	1.5	4SP(3P)2P
111.9370	-1.739	3117.461	1.5	D7	(5D)4F	92453.460	0.5	4P	(3F)4D	112.8153	-2.011	2430.097	3.5	D7	(5D)4F	91070.547	2.5	5P
111.9618	-6.847	2837.950	2.5	D7	(5D)4F	92154.165	3.5	4SP(5D)6F	112.8483	-2.432	0.000	4.5	D6S	(5D)6D	88614.520	4.5	4SP(5P)6D	
111.9760	-4.752	18886.780	0.5	D7	(5D)2P	108191.600	1.5	2300D	112.8523	-9.450	23317.633	2.5	D5S2(7S)6S	111929.000	2.5	2900D		
111.9879	-3.265	1872.567	4.5	D7	(5D)4F	91167.937	3.5	5P	(5D)6P	112.8557	-2.165	862.613	1.5	D6S	(5D)6D	89471.365	0.5	5P
112.0085	-1.990	13673.185	1.5	D7	(5D)4P	102952.120	2.5	4F(5D)4I3I	112.8681	-5.302	13904.824	0.5	D7	(5D)4P	102503.810	1.5	4SP(3D)2D	
112.0284	-2.272	20516.960	2.5	D7	(5D)2D	109780.000	1.5	2800D	112.8899	-1.105	862.613	1.5	D6S	(5D)6D	89444.458	2.5	4SP(5P)6P	
112.0432	-5.255	2837.950	2.5	D7	(5D)4F	92089.260	3.5	4SP(5G)4H	112.9070	-5.745	16369.360	3.5	D7	(5D)2G	104937.800	4.5	4SP(3I)4H	
112.0559	-1.448	3117.461	1.5	D7	(5D)4F	92358.610	1.5	4SP(5G)4F	112.9577	-4.800	20340.300	5.5	D7	(5D)2H	108868.980	4.5	4SP(3G)4H	
112.0791	-4.729	667.683	2.5	D6S	(5D)6D	89890.373	3.5	4P	(3F)4G	112.9621	-1.407	1872.567	4.5	D7	(5D)4F	90397.868	3.5	5P
112.0815	-3.062	13904.824	0.5	D7	(5D)4P	103125.650	0.5	4F(5D)4I1I	112.9765	-1.591	1872.567	4.5	D7	(5D)4F	90397.868	3.5	5P	
112.0920	-2.229	3117.461	1.5	D7	(5D)4F	92329.890	2.5	4SP(5G)4F	113.0016	-2.513	977.053	0.5	D6S	(5D)6D	89471.365	0.5	5P	
112.1001	-3.087	13904.824	0.5	D7	(5D)4P	103110.790	1.5	4F(5D)4I1I	113.0205	-2.453	8846.768	0.5	D6S	(5D)4D	97326.270	1.5	4SP(3P)2P	
112.1110	-5.101	3117.461	1.5	D7	(5D)4P	92314.758	0.5	5P	(5D)4P	113.0302	-3.258	21308.040	1.5	D7	(5D)2D	109780.000	1.5	2800D
112.1278	-7.297	15844.650	4.5	D7	(5D)2G	105028.600	3.5	4SP(3I)4H	113.0314	-1.577	2430.097	3.5	D7	(5D)4F	90901.124	2.5	5P	
112.1318	-5.207	2837.950	2.5	D7	(5D)4F	92018.729	2.5	4SP(5D)6F	113.0339	-3.289	20340.300	5.5	D7	(5D)2H	108809.310	5.5	4SP(3G)4H	
112.1621	-2.552	3117.461	1.5	D7	(5D)4F	92274.120	2.5	4P	(3P)4P	113.0343	-2.993	384.790	3.5	D6S	(5D)6D	88853.533	3.5	5P
112.1767	-4.158	2430.097	3.5	D7	(5D)4F	91575.139	2.5	5P	(5D)6P	113.0345	-1.938	862.613	1.5	D6S	(5D)6D	89331.195	1.5	5P
112.1957	-3.138	13904.824	0.5	D7	(5D)4P	103034.760	1.5	4F(5D)4I2I	113.0379	-2.928	20805.770	4.5	D7	(5D)2H	109271.710	5.5	4SP(3I)2I	
112.1975	-0.544	0.000	4.5	D6S	(5D)6D	89128.561	3.5	4SP(5P)6P	113.0443	-1.265	667.683	2.5	D6S	(5D)6D	89128.561	3.5	4SP(5P)6P	
112.2100	-2.241	22810.357	3.5	D6S	(3F)4F	111929.000	2.5	2900D	113.0484	-6.250	3117.461	1.5	D7	(5D)4F	91575.139	2.5	5P	
112.2233	-2.926	3117.461	1.5	D7	(5D)4F	92225.538	1.5	5P	(5D)4P	113.0560	-2.027	667.683	2.5	D6S	(5D)6D	89119.457	2.5	5P
112.2349	-2.165	3117.461	1.5	D7	(5D)4F	92216.320	1.5	4P	(3P)2D	113.0863	-2.815	1872.567	4.5	D7	(5D)4F	90300.625	3.5	5P
112.2421	-5.768	15844.650	4.5	D7	(5D)2G	104937.800	4.5	4SP(3I)4H	113.1200	-2.739	7955.299	3.5	D6S	(5D)4D	96356.960	3.5	4SP(3G)2F	
112.2612	-5.048	2837.950	2.5	D7	(5D)4F	91915.950	1.5	4SP(5D)6F	113.1354	-4.569	20516.960	2.5	D7	(5D)2D	108906.640	3.5	4SP(3G)4H	
112.2843	-0.741	384.790	3.5	D6S	(5D)6D	89444.458	2.5	4SP(5P)6P	113.1364	-4.737	20340.300	5.5	D7	(5D)2H	108729.160	6.5	4SP(3G)4H	
112.3224	-5.318	13474.411	2.5	D7	(5D)4P	89727.342	2.5	4P	(3F)4D	113.1594	-2.654	2837.950	2.5	D7	(5D)4F	91208.887	1.5	5P
112.3526	-5.653	2837.950	2.5	D7	(5D)4F	91843.470	1.5	5P	(5D)6P	113.1809	-4.303	977.053	0.5	D6S	(5D)6D	89331.195	1.5	5P
112.3726	-1.390	22939.358	2.5	D6S	(3F)4F	111929.000	2.5	2900D	113.1855	-2.656	2430.097	3.5	D7	(5D)4F	90780.621	3.5	5P	
112.3915	-4.703	13474.411	2.5	D7	(5D)4P	102449.100	2.5	4SP(3D)2D	113.2001	-1.871	1872.567	4.5	D7	(5D)4F	90211.700	5.5	4P	
112.3947	-5.977	15844.650	4.5	D7	(5D)2G	104816.800	5.5	4SP(3I)4H	113.2118	-5.781	2837.950	2.5	D7	(5D)4F	91167.937	3.5	5P	
112.4123	-1.138	667.683	2.5	D6S	(5D)6D	89625.940	1.5	4SP(5P)6P	113.2193	-5.884	7955.299	3.5	D6S	(5D)4D	96279.490	2.5	4SP(3G)2F	
112.4234	-1.985	20830.582	2.5	D6S	(3P)4P	109780.000	1.5	2800D	113.2709	-5.298	20516.960	2.5	D7	(5D)2D	108780.000	1.5	2700D	
112.4425	-3.369	8391.938	2.5	D6S	(5D)4P	97326.270	1.5	4SP(3P)2P	113.2977	-3.742	7955.299	3.5	D6S	(5D)4D	96279.490	2.5	4SP(3G)2H	
112.4462	-4.010	20340.300	5.5	D7	(5D)2H	109271.710	5.5	4SP(3I)2I	113.3057	-2.890	862.613	1.5	D6S	(5D)6D	89119.457	2.5	5P	
112.4757	-1.449	1872.567	4.5	D7	(5D)4F	90780.621	3.5	5P	(5D)4F	113.3368	-2.479	2837.950	2.5	D7	(5D)4F	91070.547	2.5	5P
112.4843	-7.705	3117.461	1.5	D7	(5D)4F	92018.729	2.5	4SP(5D)6F	113.3398	-4.781	20340.300	5.5	D7	(5D)2H	108570.560	4.5	4SP(3G)4G	
112.4888	-0.815	23031.300	1.5	D6S	(3F)4F	111929.000	2.5	2900D	113.3405	-1.046	384.790	3.5	D6S	(5D)6D	88614.520	4.5	4SP(5P)6D	
112.5306	-5.082	862.613	1.5	D6S	(5D)6D	89727.342	2.5	4P	(3F)4G	113.3654	-1.609	2837.950	2.5	D7	(5D)4F	91048.256	1.5	5P
112.5448	-1.052	0.000	4.5	D6S	(5D)6D	88853.533	3.5	5P	(5D)6D	113.3665	-1.210	0.000	4.5	D6S	(5D)6D	88209.450	3.5	4SP(5P)6D
112.5675	-4.833	18360.646	1.5	D7	(5D)2P	107196.200	1.5	1800D	113.3675	-1.804	2430.097	3.5	D7	(5D)4F	90638.822	2.5	5P	
112.5738	-5.369	13673.185	1.5	D7	(5D)4P	102503.810	1.5	4SP(3D)2D										

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
113.3854	-2.091	1872.567	4.5	D7	(5D)4F	90067.347	4.5	5P	(5D)6F	113.9962	-3.085	(5D)2D	108239.200	3.5	240DD
113.3969	-2.885	667.683	2.5	D6S	(5D)6D	88853.533	3.5	5P	(5D)6D	113.9965	-2.972	(5D)4F	90839.480	0.5	4P
113.4067	-8.011	15844.650	4.5	D7	(5D)2G	104022.890	3.5	4F	(5D)0[3]	114.0000	-2.722	(3H)4H	109149.680	5.5	4SP(3I)2I
113.4170	-3.447	1872.567	4.5	D7	(5D)4F	90042.779	4.5	4P	(3F)4G	114.0380	-2.552	(3H)4H	109271.710	5.5	4SP(3I)2I
113.4513	-4.274	20340.300	5.5	D7	(5D)2H	108483.870	5.5	4SP	(3G)4G	114.0536	-5.728	(5D)2H	108483.870	5.5	4SP(3G)4G
113.4548	-5.671	862.613	1.5	D6S	(5D)6D	89003.460	0.5	4P	(3P)2S	114.0550	-7.789	(5D)2G	104046.350	2.5	4F(5D)0[3]
113.4750	-9.437	15844.650	4.5	D7	(5D)2G	103969.760	3.5	4F	(5D)1[3]	114.0581	-4.158	(5D)2D	108191.600	1.5	230DD
113.4892	-4.943	20516.960	2.5	D7	(5D)2D	108631.090	3.5	4SP	(3G)4G	114.0581	-2.512	(5D)6D	88059.380	2.5	4SP(5P)6D
113.4915	-4.776	20516.960	2.5	D7	(5D)2D	108629.250	2.5	4SP	(3G)4G	114.0653	-4.318	(5D)4P	101573.900	1.5	4SP(5D)4P
113.5063	-4.630	20805.770	4.5	D7	(5D)2H	108906.640	3.5	4SP	(3G)4H	114.0855	-8.022	(5D)2G	104022.890	3.5	4F(5D)0[3]
113.5080	-3.648	13474.411	2.5	D7	(5D)4P	101573.900	1.5	4SP	(3D)4P	114.0903	-2.290	(5D)4F	90487.810	2.5	5P
113.5184	-1.768	3117.461	1.5	D7	(5D)4F	91208.887	1.5	5P	(5D)4F	114.1067	-3.070	(5D)4F	90067.347	4.5	5P
113.5302	-1.765	3117.461	1.5	D7	(5D)4F	91199.746	0.5	5P	(5D)4D	114.1235	-5.073	(5D)2H	107964.700	4.5	210DD
113.5382	-6.572	20830.582	2.5	D6S	(3P)4P	108906.640	3.5	4SP	(3G)4H	114.1311	-8.340	(5D)2G	103987.930	2.5	4F(5D)1[3]
113.5548	-3.537	20805.770	4.5	D7	(5D)2H	108868.980	4.5	4SP	(3G)4H	114.1375	-3.698	(5D)2D	108130.600	2.5	220DD
113.5548	-2.953	2837.950	2.5	D7	(5D)4F	90901.124	2.5	5P	(3D)4P	114.1387	-1.856	(5D)4F	90042.779	4.5	4P
113.5577	-2.232	2837.950	2.5	D7	(5D)4F	90988.873	1.5	4P	(3P)4G	114.1504	-3.843	(5D)4D	95995.690	2.5	4SP(5P)4D
113.5619	-4.067	2430.097	3.5	D7	(5D)4F	90487.810	2.5	5P	(5D)6F	114.1547	-6.822	(5D)2G	103969.760	3.5	4F(5D)1[3]
113.5698	-2.538	1872.567	4.5	D7	(5D)4F	89924.175	5.5	5P	(5D)6F	114.1565	-4.002	(5D)4D	96279.490	2.5	4SP(3G)2F
113.5842	-2.288	7955.299	3.5	D6S	(5D)4D	95995.690	2.5	4SP	(5P)4D	114.1872	-4.741	(5D)2H	103420.160	5.5	4F(5D)3[16]
113.5873	-8.670	15844.650	4.5	D7	(5D)2G	103882.680	3.5	4F	(5D)1[4]	114.1969	-4.320	(5D)2H	108373.800	3.5	260DD
113.5985	-7.375	15844.650	4.5	D7	(5D)2G	103873.990	4.5	4F	(5D)1[4]	114.2075	-3.085	(5D)4F	90397.868	3.5	5P
113.6023	-6.329	977.053	0.5	D6S	(5D)6D	89003.460	0.5	4P	(3P)2S	114.2104	-1.821	(3H)4H	108809.310	5.5	4SP(3G)4H
113.6104	-2.460	21251.608	6.5	D6S	(3H)4H	109271.710	5.5	4SP	(3I)2I	114.2293	-4.817	(3P)4P	108373.800	3.5	260DD
113.6134	-5.291	1872.567	4.5	D7	(5D)4F	89890.373	3.5	4P	(3F)4G	114.2312	-1.137	(5D)6D	88209.450	3.5	4SP(5P)6D
113.6318	-4.055	20805.770	4.5	D7	(5D)2H	108809.310	5.5	4SP	(3G)4H	114.2320	-3.476	(3P)4P	108371.700	1.5	250DD
113.6778	-1.962	21812.055	1.5	D6S	(3P)4P	109780.000	1.5	5P	(5D)4D	114.2321	-6.659	(5D)2G	103385.730	3.5	4F(5D)3[3]
113.6780	-2.014	2430.097	3.5	D7	(5D)4F	90397.868	3.5	5P	(5D)4D	114.2366	-1.405	(5D)6D	87537.652	3.5	4SP(5G)6F
113.6818	-3.551	8391.938	2.5	D6S	(5D)4D	96356.960	3.5	4SP	(3G)2F	114.2456	-4.236	(5D)4F	90648.217	0.5	5P
113.6927	-2.649	2430.097	3.5	D7	(5D)4F	90386.528	4.5	5P	(5D)4F	114.2578	-2.814	(5D)4F	90638.822	2.5	5P
113.6970	-3.044	3117.461	1.5	D7	(5D)4F	91070.547	2.5	5P	(3D)4P	114.2683	-7.852	(5D)2G	103882.680	3.5	4F(5D)1[4]
113.7104	-3.044	2837.950	2.5	D7	(5D)4F	90780.621	3.5	5P	(5D)4F	114.2695	-6.221	(5D)4F	90629.902	1.5	4P
113.7258	-3.921	3117.461	1.5	D7	(5D)4F	91048.256	1.5	5P	(5D)4D	114.2752	-5.715	(5D)2G	103352.680	4.5	4F(5D)3[15]
113.7647	-6.254	13673.185	1.5	D7	(5D)4F	101573.900	1.5	4SP	(5D)4D	114.2797	-5.499	(5D)2G	103873.990	4.5	4F(5D)1[4]
113.7681	-2.050	21251.608	6.5	D6S	(3H)4H	109149.680	6.5	4SP	(3I)2I	114.2889	-4.519	(5D)4P	101402.380	0.5	4SP(5D)4P
113.7818	-3.669	8391.938	2.5	D6S	(5D)4D	96279.490	2.5	4SP	(3G)2F	114.2910	-6.368	(5D)2G	103340.640	3.5	4F(5D)3[4]
113.8038	-1.752	2430.097	3.5	D7	(5D)4F	90300.625	3.5	5P	(5D)6F	114.3009	-9.180	(5D)2G	103857.740	2.5	4F(5D)1[2]
113.8088	-7.364	15844.650	4.5	D7	(5D)2G	103711.570	3.5	4F	(5D)2[4]	114.3095	-5.600	(5D)2G	103326.410	4.5	4F(5D)3[15]
113.8212	-6.963	15844.650	4.5	D7	(5D)2G	103701.720	4.5	4F	(5D)2[5]	114.3101	-5.917	(5D)2G	103325.950	5.5	4F(5D)3[5]
113.8215	-4.995	20516.960	2.5	D7	(5D)2D	108373.800	3.5	260DD		114.3150	-0.735	(3H)4H	108729.160	6.5	4SP(3G)4H
113.8243	-4.804	20516.960	2.5	D7	(5D)2D	108371.700	1.5	250DD		114.3223	-3.856	(5D)2D	108780.000	1.5	270DD
113.8351	-5.287	15844.650	4.5	D7	(5D)2G	103691.050	5.5	4F	(5D)2[5]	114.3226	-0.693	(5D)6D	87471.765	4.5	4SP(5G)6F
113.8416	-2.359	21430.359	5.5	D6S	(3H)4H	109271.710	5.5	4SP	(3I)2I	114.3300	-2.385	(5D)4D	95858.050	1.5	4SP(5P)4D
113.8485	-6.228	15844.650	4.5	D7	(5D)2G	103680.640	4.5	4F	(5D)2[4]	114.3376	-2.621	(5D)4F	90300.625	3.5	5P
113.8536	-7.023	15844.650	4.5	D7	(5D)2G	103676.780	3.5	4F	(5D)2[3]	114.3376	-3.071	(5D)4F	89890.373	3.5	4P
113.8622	-2.596	8391.938	2.5	D6S	(5D)4D	96279.490	2.5	4SP	(3G)4G	114.3659	-2.298	(3H)4H	108868.980	4.5	4SP(3G)4H
113.8624	-4.165	15844.650	4.5	D7	(5D)4F	106217.420	3.5	4SP	(3F)4G	114.3727	-5.792	(5D)2H	108239.200	3.5	240DD
113.8632	-1.141	384.790	3.5	D6S	(5D)6D	88209.450	3.5	4SP	(3P)6D	114.4052	-0.679	(3P)4P	108239.200	3.5	240DD
113.8941	-1.832	2837.950	2.5	D7	(5D)4F	90638.822	2.5	5P	(5D)4F	114.4273	-0.974	(5D)6D	88059.380	2.5	4SP(5P)6D
113.8946	-5.706	20830.582	2.5	D6S	(3P)4P	108631.090	3.5	4SP	(3G)4G	114.4440	-0.762	(3H)4H	108809.310	5.5	4SP(3G)4H
113.8969	-4.405	20830.582	2.5	D6S	(3P)4P	108629.250	2.5	4SP	(3G)4G	114.4553	-3.091	(5D)4F	90487.810	2.5	5P
113.9057	-5.410	2837.950	2.5	D7	(5D)4F	90629.902	1.5	4P	(3P)4S	114.4556	-1.481	(3P)4P	109780.000	1.5	280DD
113.9164	-6.003	3117.461	1.5	D7	(5D)4F	90901.124	2.5	5P	(3D)4P	114.4562	-3.483	(5D)2D	107886.600	3.5	200DD
113.9193	-3.081	3117.461	1.5	D7	(5D)4F	90988.873	1.5	4P	(3P)4S	114.4675	-2.360	(3P)4P	108191.600	1.5	230DD
113.9409	-4.763	20805.770	4.5	D7	(5D)2H	108570.560	4.5	4SP	(3G)4G	114.4922	-6.052	(5D)2G	103711.570	3.5	4F(5D)2[14]
113.9529	-3.501	2837.950	2.5	D7	(5D)4F	90593.497	1.5	5P	(5D)6F	114.4938	-0.046	(5D)6D	87340.983	5.5	4SP(5G)6F
113.9871	-3.821	13673.185	1.5	D7	(5D)4P	101402.380	0.5	4SP	(5D)4P	114.4963	-3.349	(5D)2G	103183.700	3.5	4SP(3D)2F

WL(NM)	LOGGF	EVEN E	J	ODD E	J	WL(NM)	LOGGF	EVEN E	J	ODD E	J	WL(NM)	LOGGF	EVEN E	J	ODD E	J	WL(NM)	LOGGF	EVEN E	J	ODD E	J						
115.7157	-4.264	21711.917	3.5	D6S	(3E)4H	108130.600	2.5	220DD	116.2873	-3.414	22637.205	4.5	D6S	(3F)4F	108631.090	3.5	4SP(3G)4G	116.3233	-1.615	22939.358	2.5	D6S	(3F)4F	108906.640	3.5	4SP(3G)4H			
115.7634	-2.352	21581.638	4.5	D6S	(3E)4H	107964.700	4.5	210DD	116.3233	-1.615	22939.358	2.5	D6S	(3F)4F	108906.640	3.5	4SP(3G)4H	116.3307	-1.365	22403.852	0.5	D6S	(3F)4P	108371.700	1.5	250DD			
115.7638	-5.680	364.790	3.5	D6S	(5D)6D	86767.577	2.5	4P	(3P)4D	116.3503	-2.853	22981.629	3.5	D6S	(3G)4G	111929.000	2.5	290DD	116.3503	-2.853	22981.629	3.5	D6S	(3G)4G	111929.000	2.5	290DD		
115.7681	-1.576	21812.055	1.5	D6S	(3F)4P	108191.600	1.5	230DD	116.3503	-2.853	22981.629	3.5	D6S	(3G)4G	111929.000	2.5	290DD	116.3692	-1.508	22637.205	4.5	D6S	(3F)4F	108570.560	4.5	4SP(3G)4G			
115.7792	-6.908	8391.938	2.5	D6S	(5D)4D	94763.219	3.5	4SP(5D)6P	116.3692	-1.508	22637.205	4.5	D6S	(3F)4F	108570.560	4.5	4SP(3G)4G	116.4074	-4.358	862.613	1.5	D6S	(5D)6D	86767.577	2.5	4P	(3P)4D		
115.7807	-0.965	22409.852	0.5	D6S	(3F)4P	108780.000	1.5	270DD	116.4074	-4.358	862.613	1.5	D6S	(5D)6D	86767.577	2.5	4P	(3P)4D	116.4247	-2.521	8846.768	0.5	D6S	(5D)4D	94739.170	1.5	4SP(5P)4P		
115.7868	-4.217	8680.454	1.5	D6S	(5D)4D	95046.100	2.5	4P	(3F)2F	116.4247	-2.521	8846.768	0.5	D6S	(5D)4D	94739.170	1.5	4SP(5P)4P	116.4305	-5.346	21308.040	1.5	D7	(5D)2D	107196.200	2.5	180DD		
115.7868	-4.217	8680.454	1.5	D6S	(5D)4D	95046.100	2.5	4P	(3F)2F	116.4305	-5.346	21308.040	1.5	D7	(5D)2D	107196.200	2.5	180DD	116.4334	-5.218	3117.461	1.5	D7	(5D)4F	89003.460	0.5	4P	(3P)2S	
115.7946	-5.723	20805.770	4.5	D7	(5D)2H	107165.600	3.5	170DD	116.4334	-5.218	3117.461	1.5	D7	(5D)4F	89003.460	0.5	4P	(3P)2S	116.4355	-3.506	20805.770	4.5	D7	(5D)2H	106690.170	5.5	4SP(3I)2H		
115.7960	-3.258	8680.454	1.5	D6S	(5D)4D	95039.200	1.5	4P	(3P)2P	116.4355	-3.506	20805.770	4.5	D7	(5D)2H	106690.170	5.5	4SP(3I)2H	116.4418	-4.942	667.683	2.5	D6S	(5D)6D	86547.490	2.5	4P	(1F)2F	
115.8025	-4.887	3117.461	1.5	D7	(5D)4F	89471.365	0.5	5P	(5D)6P	116.4418	-4.942	667.683	2.5	D6S	(5D)6D	86547.490	2.5	4P	(1F)2F	116.4466	-4.882	667.683	2.5	D6S	(5D)6D	86543.974	1.5	4P	(3P)4D
115.8079	-2.963	20340.300	5.5	D7	(5D)2H	106690.170	5.5	4SP(3I)2H	116.4466	-4.882	667.683	2.5	D6S	(5D)6D	86543.974	1.5	4P	(3P)4D	116.4503	-1.115	26055.423	2.5	D6S	(3G)4G	111929.000	2.5	290DD		
115.8115	-1.253	8391.938	2.5	D6S	(5D)4D	94739.170	1.5	4SP(5P)4P	116.4503	-1.115	26055.423	2.5	D6S	(3G)4G	111929.000	2.5	290DD	116.4582	-0.732	22637.205	4.5	D6S	(3F)4F	108483.870	5.5	4SP(3G)4G			
115.8128	-4.549	20516.960	2.5	D7	(5D)2D	106863.200	3.5	160DD	116.4582	-0.732	22637.205	4.5	D6S	(3F)4F	108483.870	5.5	4SP(3G)4G	116.4920	-4.170	20340.300	5.5	D7	(5D)2H	106183.100	6.5	4SP(3I)2K			
115.8254	-5.140	1872.567	4.5	D7	(5D)4F	88209.450	3.5	4SP(5P)6D	116.4920	-4.170	20340.300	5.5	D7	(5D)2H	106183.100	6.5	4SP(3I)2K	116.4949	-3.104	22939.358	2.5	D6S	(3F)4F	108780.000	1.5	270DD			
115.8279	-0.819	20830.582	2.5	D6S	(3F)4P	107165.600	3.5	170DD	116.4949	-3.104	22939.358	2.5	D6S	(3F)4F	108780.000	1.5	270DD	116.5220	-1.393	22810.337	3.5	D6S	(3F)4F	108631.090	3.5	4SP(3G)4G			
115.8292	-4.667	13474.411	2.5	D7	(5D)4P	99808.400	3.5	4P	(1G)2G	116.5220	-1.393	22810.337	3.5	D6S	(3F)4F	108631.090	3.5	4SP(3G)4G	116.5232	-1.750	8391.938	2.5	D6S	(5D)4D	94211.739	2.5	4SP(5P)4P		
115.8386	-6.510	3117.461	1.5	D7	(5D)4F	89444.458	2.5	4SP(5P)6P	116.5232	-1.750	8391.938	2.5	D6S	(5D)4D	94211.739	2.5	4SP(5P)4P	116.5245	-2.996	22810.337	3.5	D6S	(5D)6D	86482.750	3.5	4P	(1F)2F		
115.8500	-0.940	21812.055	1.5	D6S	(3F)4P	108130.600	2.5	220DD	116.5245	-2.996	22810.337	3.5	D6S	(5D)6D	86482.750	3.5	4P	(1F)2F	116.5297	-5.089	22409.852	0.5	D6S	(3P)4P	108191.600	1.5	230DD		
115.8631	-3.589	8391.938	2.5	D6S	(5D)4D	94700.660	2.5	4P	(3F)2D	116.5297	-5.089	22409.852	0.5	D6S	(3P)4P	108191.600	1.5	230DD	116.5749	-2.091	2430.097	3.5	D7	(5D)4F	88209.450	3.5	4SP(5P)6D		
115.8682	-4.763	21581.638	4.5	D6S	(3E)4H	107886.600	3.5	200DD	116.5749	-2.091	2430.097	3.5	D7	(5D)4F	88209.450	3.5	4SP(5P)6D	116.6042	-0.737	22810.337	3.5	D6S	(3F)4F	108570.560	4.5	4SP(3G)4G			
115.8838	-5.978	2430.097	3.5	D7	(5D)4F	88723.400	4.5	5P	(5D)6D	116.6042	-0.737	22810.337	3.5	D6S	(3F)4F	108570.560	4.5	4SP(3G)4G	116.6198	-2.600	23031.300	1.5	D6S	(3F)4F	108780.000	1.5	270DD		
115.8841	-2.030	8391.938	2.5	D6S	(5D)4D	94685.090	2.5	4SP(5D)6P	116.6198	-2.600	23031.300	1.5	D6S	(3F)4F	108780.000	1.5	270DD	116.6363	-4.728	22637.205	4.5	D6S	(3F)4F	108631.090	3.5	4SP(3G)4G			
115.8875	-6.117	2837.950	2.5	D7	(5D)4F	89128.561	3.5	4SP(3P)6P	116.6363	-4.728	22637.205	4.5	D6S	(3F)4F	108631.090	3.5	4SP(3G)4G	116.6974	-0.756	22939.358	2.5	D6S	(3F)4F	108631.090	3.5	4SP(3G)4G			
115.8997	-3.663	22637.205	4.5	D6S	(3F)4P	108906.640	3.5	4P	(3P)4D	116.6974	-0.756	22939.358	2.5	D6S	(3F)4F	108631.090	3.5	4SP(3G)4G	116.7056	-3.163	18360.646	1.5	D7	(5D)2P	104046.350	2.5	4F(5D)013		
115.9159	-3.663	22637.205	4.5	D6S	(3F)4P	108906.640	3.5	4P	(3P)4D	116.7056	-3.163	18360.646	1.5	D7	(5D)2P	104046.350	2.5	4F(5D)013	116.7067	-5.060	862.613	1.5	D6S	(5D)6D	86547.490	2.5	4P	(1F)2F	
115.9259	-4.551	667.683	2.5	D6S	(5D)6D	86929.649	3.5	4P	(3P)4D	116.7067	-5.060	862.613	1.5	D6S	(5D)6D	86547.490	2.5	4P	(1F)2F	116.7115	-4.132	862.613	1.5	D6S	(5D)6D	86543.974	1.5	4P	(3P)4D
115.9334	-1.042	7955.299	3.5	D6S	(5D)4D	94211.739	2.5	4SP(5P)4P	116.7115	-4.132	862.613	1.5	D6S	(5D)6D	86543.974	1.5	4P	(3P)4D	116.7116	-2.924	8391.938	2.5	D6S	(5D)4D	94073.240	3.5	4SP(5G)4G		
115.9383	-3.278	21711.917	3.5	D6S	(3E)4H	107964.700	4.5	210DD	116.7116	-2.924	8391.938	2.5	D6S	(5D)4D	94073.240	3.5	4SP(5G)4G	116.7337	-5.626	1872.567	4.5	D7	(5D)4F	88059.380	2.5	4SP(5P)6D			
115.9665	-1.853	22637.205	4.5	D6S	(3F)4F	108868.980	4.5	4SP(3G)4H	116.7337	-5.626	1872.567	4.5	D7	(5D)4F	88059.380	2.5	4SP(5P)6D	116.7825	-6.110	2430.097	3.5	D7	(5D)4F	88059.380	2.5	4SP(5P)6D			
115.9908	-4.638	3117.461	1.5	D7	(5D)4F	89331.195	1.5	5P	(5D)6D	116.7825	-6.110	2430.097	3.5	D7	(5D)4F	88059.380	2.5	4SP(5P)6D	116.8131	-2.379	18360.646	1.5	D7	(5D)2P	103967.490	0.5	4SP(3P)2S		
116.0089	-1.600	8680.454	1.5	D6S	(5D)4D	94880.740	0.5	4SP(5P)4P	116.8131	-2.379	18360.646	1.5	D7	(5D)2P	103967.490	0.5	4SP(3P)2S	116.8197	-1.881	22637.205	4.5	D6S	(3F)4F	108239.200	3.5	240DD			
116.0184	-2.939	7955.299	3.5	D6S	(5D)4D	94148.510	4.5	4SP(5G)4G	116.8197	-1.881	22637.205	4.5	D6S	(3F)4F	108239.200	3.5	240DD	116.8235	-5.975	1872.567	4.5	D7	(5D)4F	87471.765	4.5	4SP(5G)6F			
116.0195	-3.768	8846.768	0.5	D6S	(5D)4D	95039.200	1.5	4P	(3P)2P	116.8235	-5.975	1872.567	4.5	D7	(5D)4F	87471.765	4.5	4SP(5G)6F	116.8252	-0.809	23031.300	1.5	D6S	(3F)4F	108629.250	2.5	4SP(3G)4G		
116.0302	-4.981	2430.097	3.5	D7	(5D)4F	88614.520	4.5	4SP(5P)6D	116.8252	-0.809	23031.300	1.5	D6S	(3F)4F	108629.250	2.5	4SP(3G)4G	116.8285	-3.187	8391.938	2.5	D6S	(5D)4D	93988.170	2.5	4SP(5G)4G			
116.0434	-2.788	21711.917	3.5	D6S	(3E)4H	107886.600	3.5	200DD	116.8285	-3.187	8391.938	2.5	D6S	(5D)4D	93988.170	2.5	4SP(5G)4G	116.8443	-2.307	21581.638	4.5	D6S	(3H)4H	107165.600	3.5	170DD			
116.0468	-1.233	22637.205	4.5	D6S	(3F)4F	108809.310	5.5	4SP(3G)4H	116.8443	-2.307	21581.638	4.5	D6S	(3H)4H	107165.600	3.5	170DD	116.8552	-3.698	21430.359	5.5	D6S	(3H)4H	107006.350	4.5	4P	(3I)2H		
116.0595	-5.924	384.790	3.5	D6S	(5D)6D	86547.4																							

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
117.0432	-7.035	21251.608	6.5	D6S (3H)4H	106690.170	5.5	4SP(31)2H	117.6046	-3.362	13474.411	2.5	D7 (5D)4P	98505.100	2.5	4SP(5D)4D
117.0488	-2.586	22939.358	2.5	D6S (3F)4F	108373.800	3.0	260DD	117.6047	-4.076	18360.646	1.5	D7 (5D)2P	103391.290	1.5	4F(5D)3[2]
117.0517	-2.407	22939.358	2.5	D6S (3F)4F	108371.700	1.5	250DD	117.6413	-4.387	18360.646	1.5	D7 (5D)2P	103364.846	1.5	4F(5D)3[3]
117.0565	-1.923	22810.357	3.5	D6S (3F)4F	108239.200	3.5	240DD	117.6423	-1.781	8391.938	2.5	D6S (5D)4D	93395.360	2.5	4P (3F)4F
117.0621	-2.978	21581.638	4.5	D6S (3H)4H	107006.350	4.5	4SP(31)2H	117.6560	-3.698	8846.768	0.5	D6S (5D)4D	93840.340	1.5	4SP(5D)6D
117.0627	-3.768	13474.411	2.5	D7 (3D)4P	98898.710	3.5	4P (1G)2F	117.6716	-3.930	18886.780	0.5	D7 (5D)2P	103869.020	1.5	4F(5D)1[2]
117.0799	-4.289	977.053	0.5	D6S (5D)6D	86388.820	0.5	4P (3P)4F	117.6838	-6.429	18360.646	1.5	D7 (5D)2P	103334.100	2.5	4SP(3D)2F
117.1178	-1.511	21812.055	1.5	D6S (3P)4P	107196.200	2.5	180DD	117.7201	-1.445	22939.358	2.5	D6S (3F)4F	107886.600	3.5	200DD
117.1351	-5.157	2837.950	2.5	D7 (5D)4F	88209.450	3.5	4SP(5P)6D	117.7248	-2.471	7955.299	3.5	D6S (5D)4D	92859.200	2.5	4P (3F)4D
117.1633	-2.113	8680.454	1.5	D6S (5D)4F	94031.378	0.5	4SP(5D)6D	117.7275	-5.461	3117.461	1.5	D7 (5D)4F	88039.380	2.5	4SP(5P)6D
117.1778	-1.525	23031.300	1.5	D6S (3F)4F	108371.700	1.5	250DD	117.7350	-2.778	8391.938	2.5	D6S (5D)4D	93328.480	1.5	4P (3F)4F
117.1814	-4.290	18360.646	1.5	D7 (5D)2P	103698.440	2.5	4F(5D)2[3]	117.7420	-5.171	21251.608	6.5	D6S (3H)4H	106183.100	6.5	4SP(31)2K
117.1859	-3.895	13673.185	1.5	D7 (5D)4P	99007.700	0.5	4SP(5D)4D	117.7557	-5.351	23317.633	2.5	D5S2(7S)6S	108239.200	3.5	240DD
117.1955	-1.240	22637.205	4.5	D6S (3F)4F	107964.700	4.5	210DD	117.7622	-2.604	13474.411	2.5	D7 (5D)4P	98391.330	3.5	4SP(5D)4D
117.2055	-2.039	22810.357	3.5	D6S (3F)4F	108130.600	2.5	220DD	117.8130	-3.384	13474.411	2.5	D7 (5D)4P	98354.660	2.5	4SP(5D)4F
117.2119	-5.673	18360.646	1.5	D7 (5D)2P	103676.220	0.5	4F(5D)2[1]	117.8218	-8.018	23317.633	2.5	D5S2(7S)6S	108191.600	1.5	230DD
117.2148	-9.538	23317.633	2.5	D5S2(7S)6S	108631.090	3.5	4SP(3G)4G	117.8338	-3.645	13904.824	0.5	D7 (5D)4P	98770.140	1.5	4SP(5D)4D
117.2173	-7.568	23317.633	2.5	D5S2(7S)6S	108629.250	2.5	4SP(3G)4G	117.8358	-2.742	13474.411	2.5	D7 (5D)4P	98338.280	1.5	4SP(5P)4S
117.2222	-4.373	18360.646	1.5	D7 (5D)2P	103668.690	1.5	4F(5D)2[1]	117.8589	-5.423	3117.461	1.5	D7 (5D)4F	87964.650	1.5	4SP(5P)6D
117.2227	-3.219	8680.454	1.5	D6S (5D)4D	93988.170	2.5	4SP(5G)4G	117.8802	-3.235	13673.185	1.5	D7 (5D)4F	98505.100	2.5	4SP(5D)4D
117.2328	-5.100	18360.646	1.5	D7 (5D)2P	103660.980	2.5	4F(5D)2[2]	117.9065	-5.628	23317.633	2.5	D5S2(7S)6S	108130.600	2.5	220DD
117.2335	-2.408	22939.358	2.5	D6S (3F)4F	108239.200	3.5	240DD	117.9392	-4.082	18886.780	0.5	D7 (5D)2P	103676.220	0.5	4F(5D)2[1]
117.2392	-4.600	13474.411	2.5	D7 (5D)4P	98770.140	1.5	4SP(5D)4D	117.9497	-4.567	18886.780	0.5	D7 (5D)2P	103668.690	1.5	4F(5D)2[1]
117.2409	-3.377	21711.917	3.5	D6S (3H)4H	107006.350	4.5	4SP(31)2H	117.9514	-5.764	3117.461	1.5	D7 (5D)4F	87898.120	0.5	4SP(5G)6F
117.2545	-5.368	18360.646	1.5	D7 (5D)2P	103645.220	1.5	4F(5D)2[2]	117.9732	-3.603	18360.646	1.5	D7 (5D)2P	103125.650	0.5	4F(5D)4[1]
117.2586	-2.032	21581.638	4.5	D6S (3H)4H	106863.200	3.5	160DD	117.9742	-6.288	2837.950	2.5	D7 (5D)4F	87602.520	1.5	4SP(5G)6F
117.2707	-2.358	21251.608	6.5	D6S (3H)4H	106524.400	7.5	4SP(31)2K	117.9824	-4.555	18886.780	0.5	D7 (5D)2P	103645.220	1.5	4F(5D)2[2]
117.2886	-2.450	21430.359	5.5	D6S (3H)4H	106690.170	5.5	4SP(31)2H	117.9903	-2.816	21430.359	5.5	D6S (3H)4H	106183.100	6.5	4SP(31)2K
117.2990	-3.136	22939.358	2.5	D6S (3F)4F	108191.600	1.5	230DD	117.9939	-3.814	18360.646	1.5	D7 (5D)2P	103110.790	1.5	4F(5D)4[1]
117.3029	-3.108	22637.205	4.5	D6S (3F)4F	107886.600	3.5	200DD	118.0079	-2.952	7955.299	3.5	D6S (5D)4D	92695.374	2.5	4P (3P)2F
117.3414	-5.237	2837.950	2.5	D7 (5D)4F	88059.380	2.5	4SP(5P)6D	118.0109	-1.416	118.0109	-1.416				
117.3830	-1.722	22939.358	2.5	D6S (3F)4F	108130.600	2.5	220DD	118.0157	-4.978	8391.938	2.5	D6S (5D)4D	93129.900	3.5	4P (3F)4D
117.3921	-2.195	8846.768	0.5	D6S (5D)4D	94031.378	0.5	4SP(5D)6D	118.0337	-4.988	13474.411	2.5	D7 (5D)4P	98196.000	1.5	4SP(5D)4F
117.4059	-2.126	7955.299	3.5	D6S (5D)4D	93129.900	3.5	4P (3F)4D	118.0430	-1.301	8680.454	1.5	D6S (5D)4D	93395.360	2.5	4P (3F)4F
117.4256	-5.007	23031.300	1.5	D6S (3F)4F	108191.600	1.5	230DD	118.0462	-4.567	87537.650	2.5	D7 (5D)4F	87537.650	2.5	4SP(5G)6F
117.4262	-2.382	8680.454	1.5	D6S (5D)4D	93840.340	1.5	4SP(5D)6D	118.0896	-3.246	13673.185	1.5	D7 (5D)4P	98354.660	2.5	4SP(5D)4F
117.4338	-1.686	22810.357	3.5	D6S (3F)4F	107964.700	4.5	210DD	118.0998	-2.948	18360.646	1.5	D7 (5D)2P	103034.760	1.5	4F(5D)4[2]
117.4380	-3.005	21711.917	3.5	D6S (3H)4H	106863.200	3.5	160DD	118.1124	-2.948	13673.185	1.5	D7 (5D)4P	98338.280	1.5	4SP(5P)4S
117.4391	-4.202	8680.454	1.5	D6S (5D)4D	93830.979	2.5	4SP(5D)6D	118.1145	-4.037	18360.646	1.5	D7 (5D)2P	103024.290	2.5	4F(5D)4[2]
117.4504	-6.055	2430.097	3.5	D7 (5D)4F	87572.431	2.5	4SP(5G)6F	118.1362	-1.805	8680.454	1.5	D6S (5D)4D	93328.480	1.5	4P (3F)4F
117.4720	-5.780	2837.950	2.5	D7 (5D)4F	87964.650	1.5	4SP(5P)6D	118.1371	-2.196	7955.299	3.5	D6S (5D)4D	92695.374	2.5	4P (3P)2F
117.4970	-3.443	21581.638	4.5	D6S (3H)4H	106690.170	5.5	4SP(31)2H	118.1836	-3.489	27314.922	3.5	D6S (3F)2F	111929.000	2.5	290DD
117.4984	-5.527	2430.097	3.5	D7 (5D)4F	87537.652	3.5	4SP(5G)6F	118.1891	-2.075	1872.567	4.5	D7 (5D)4F	86482.750	3.5	4F(1F)2F
117.5048	-3.375	13904.824	0.5	D7 (5D)4P	99007.700	0.5	4SP(5D)4D	118.2068	-4.810	20340.300	5.5	D7 (5D)2H	104937.800	4.5	4SP(31)4H
117.5098	-2.070	23031.300	1.5	D6S (3F)4F	108130.600	2.5	220DD	118.2152	-3.987	18360.646	1.5	D7 (5D)2P	102952.120	2.5	4F(5D)4[3]
117.5130	-2.967	13673.185	1.5	D7 (5D)4P	98770.140	1.5	4SP(5D)4D	118.2467	-5.749	23317.633	2.5	D5S2(7S)6S	107886.600	3.5	200DD
117.5147	-1.340	8391.938	2.5	D6S (5D)4D	93487.650	3.5	4P (3F)4F	118.2675	-4.090	18886.780	0.5	D7 (5D)2P	103437.280	0.5	4F(5D)3[1]
117.5355	-2.839	18886.780	0.5	D7 (5D)2P	103967.490	0.5	4SP(3P)2S	118.2994	-5.448	18886.780	0.5	D7 (5D)2P	103418.080	0.5	4F(5D)3[0]
117.5411	-5.310	18360.646	1.5	D7 (5D)2P	103437.280	0.5	4F(5D)3[1]	118.2996	-4.472	18886.780	0.5	D7 (5D)2P	103417.910	1.5	4F(5D)3[1]
117.5416	-1.089	22810.357	3.5	D6S (3F)4F	107886.600	3.5	200DD	118.3034	-1.126	22637.205	4.5	D6S (3F)4F	107165.600	3.5	170DD
117.5621	-3.993	13474.411	2.5	D7 (5D)4P	98535.850	3.5	4SP(5D)4F	118.3113	-4.576	13673.185	1.5	D7 (5D)4P	98196.000	1.5	4SP(5D)4F
117.5676	-4.053	18360.646	1.5	D7 (5D)2P	103418.080	0.5	4F(5D)3[0]	118.3173	-6.089	3117.461	1.5	D7 (5D)4F	87635.920	0.5	4SP(5P)6D
117.5679	-7.041	18360.646	1.5	D7 (5D)2P	103417.910	1.5	4F(5D)3[1]	118.3269	-8.425	20516.960	2.5	D7 (5D)2D	105028.600	3.5	4SP(31)4H
117.5681	-1.362	1872.567	4.5	D7 (5D)4F	86929.649	3.5	4P (3P)4D	118.3330	-2.113	8391.938	2.5	D6S (5D)4D	92859.200	2.5	4P (3F)4D
117.5694	-9.547	23317.633	2.5	D5S2(7S)6S	108373.800	3.5	260DD	118.3369	-5.276	18886.780	0.5	D7 (5D)2P	103391.290	1.5	4F(5D)3[2]
117.5723	-6.447	23317.633	2.5	D5S2(7S)6S	108371.700	1.5	250DD	118.3438	-2.053	2430.097	3.5	D7 (5D)4F	86929.649	3.5	4P (3P)4D
117.5840	-5.082	18360.646	1.5	D7 (5D)2P	103406.250	2.5	4F(5D)3[2]	118.3653	-5.621	3117.461	1.5	D7 (5D)4F	87602.520	1.5	4SP(5G)6F
117.5894	-4.084	2430.097	3.5	D7 (5D)4F	87471.765	4.5	4SP(5G)6F	118.3688	-1.415	8846.768	0.5	D6S (5D)4D	93328.480	1.5	4P (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
104816.800	5.5	4SP(3I)4H	5.5	4SP(3I)4H	104816.800	5.5	4SP(3I)4H	104816.800	5.5	4SP(3I)4H	5.5	4SP(3I)4H	104816.800	5.5	4SP(3I)4H
92426.980	4.5	4SP(5G)4F	4.5	4SP(5G)4F	92426.980	4.5	4SP(5G)4F	92426.980	4.5	4SP(5G)4F	4.5	4SP(5G)4F	92426.980	4.5	4SP(5G)4F
87572.431	2.5	4SP(5G)6F	2.5	4SP(5G)6F	87572.431	2.5	4SP(5G)6F	87572.431	2.5	4SP(5G)6F	2.5	4SP(5G)6F	87572.431	2.5	4SP(5G)6F
13904.824	0.5	4SP(5P)4S	0.5	4SP(5P)4S	13904.824	0.5	4SP(5P)4S	13904.824	0.5	4SP(5P)4S	0.5	4SP(5P)4S	13904.824	0.5	4SP(5P)4S
107196.200	1.5	180DD	1.5	180DD	107196.200	1.5	180DD	107196.200	1.5	180DD	1.5	180DD	107196.200	1.5	180DD
92329.890	2.5	4SP(5G)4F	2.5	4SP(5G)4F	92329.890	2.5	4SP(5G)4F	92329.890	2.5	4SP(5G)4F	2.5	4SP(5G)4F	92329.890	2.5	4SP(5G)4F
107006.350	4.5	4SP(3I)2H	4.5	4SP(3I)2H	107006.350	4.5	4SP(3I)2H	107006.350	4.5	4SP(3I)2H	4.5	4SP(3I)2H	107006.350	4.5	4SP(3I)2H
107165.600	3.5	170DD	3.5	170DD	107165.600	3.5	170DD	107165.600	3.5	170DD	3.5	170DD	107165.600	3.5	170DD
92300.277	4.5	4SP(5D)6F	4.5	4SP(5D)6F	92300.277	4.5	4SP(5D)6F	92300.277	4.5	4SP(5D)6F	4.5	4SP(5D)6F	92300.277	4.5	4SP(5D)6F
86767.577	2.5	4P(3P)4D	2.5	4P(3P)4D	86767.577	2.5	4P(3P)4D	86767.577	2.5	4P(3P)4D	2.5	4P(3P)4D	86767.577	2.5	4P(3P)4D
92282.460	3.5	4SP(5G)4F	3.5	4SP(5G)4F	92282.460	3.5	4SP(5G)4F	92282.460	3.5	4SP(5G)4F	3.5	4SP(5G)4F	92282.460	3.5	4SP(5G)4F
104659.260	6.5	4SP(3I)4H	6.5	4SP(3I)4H	104659.260	6.5	4SP(3I)4H	104659.260	6.5	4SP(3I)4H	6.5	4SP(3I)4H	104659.260	6.5	4SP(3I)4H
92274.120	2.5	4P(3P)4P	2.5	4P(3P)4P	92274.120	2.5	4P(3P)4P	92274.120	2.5	4P(3P)4P	2.5	4P(3P)4P	92274.120	2.5	4P(3P)4P
111929.000	2.5	290DD	2.5	290DD	111929.000	2.5	290DD	111929.000	2.5	290DD	2.5	290DD	111929.000	2.5	290DD
92647.510	1.5	4P(3F)4D	1.5	4P(3F)4D	92647.510	1.5	4P(3F)4D	92647.510	1.5	4P(3F)4D	1.5	4P(3F)4D	92647.510	1.5	4P(3F)4D
103125.650	0.5	4F(5D)4[1]	0.5	4F(5D)4[1]	103125.650	0.5	4F(5D)4[1]	103125.650	0.5	4F(5D)4[1]	0.5	4F(5D)4[1]	103125.650	0.5	4F(5D)4[1]
107165.600	3.5	160DD	3.5	160DD	107165.600	3.5	160DD	107165.600	3.5	160DD	3.5	160DD	107165.600	3.5	160DD
108863.200	3.5	160DD	3.5	160DD	108863.200	3.5	160DD	108863.200	3.5	160DD	3.5	160DD	108863.200	3.5	160DD
103110.790	1.5	4F(5D)4[1]	1.5	4F(5D)4[1]	103110.790	1.5	4F(5D)4[1]	103110.790	1.5	4F(5D)4[1]	1.5	4F(5D)4[1]	103110.790	1.5	4F(5D)4[1]
105028.600	3.5	4SP(3I)4H	3.5	4SP(3I)4H	105028.600	3.5	4SP(3I)4H	105028.600	3.5	4SP(3I)4H	3.5	4SP(3I)4H	105028.600	3.5	4SP(3I)4H
82899.220	2.5	4P(3F)4D	2.5	4P(3F)4D	82899.220	2.5	4P(3F)4D	82899.220	2.5	4P(3F)4D	2.5	4P(3F)4D	82899.220	2.5	4P(3F)4D
92117.716	2.5	4P(3F)2G	2.5	4P(3F)2G	92117.716	2.5	4P(3F)2G	92117.716	2.5	4P(3F)2G	2.5	4P(3F)2G	92117.716	2.5	4P(3F)2G
92602.703	3.5	4P(3F)2G	3.5	4P(3F)2G	92602.703	3.5	4P(3F)2G	92602.703	3.5	4P(3F)2G	3.5	4P(3F)2G	92602.703	3.5	4P(3F)2G
92154.165	3.5	4SP(5G)4F	3.5	4SP(5G)4F	92154.165	3.5	4SP(5G)4F	92154.165	3.5	4SP(5G)4F	3.5	4SP(5G)4F	92154.165	3.5	4SP(5G)4F
105028.600	3.5	4SP(3I)4H	3.5	4SP(3I)4H	105028.600	3.5	4SP(3I)4H	105028.600	3.5	4SP(3I)4H	3.5	4SP(3I)4H	105028.600	3.5	4SP(3I)4H
107006.350	4.5	4SP(3I)2H	4.5	4SP(3I)2H	107006.350	4.5	4SP(3I)2H	107006.350	4.5	4SP(3I)2H	4.5	4SP(3I)2H	107006.350	4.5	4SP(3I)2H
107196.200	2.5	180DD	2.5	180DD	107196.200	2.5	180DD	107196.200	2.5	180DD	2.5	180DD	107196.200	2.5	180DD
92116.780	4.5	4SP(5G)4F	4.5	4SP(5G)4F	92116.780	4.5	4SP(5G)4F	92116.780	4.5	4SP(5G)4F	4.5	4SP(5G)4F	92116.780	4.5	4SP(5G)4F
92103.760	1.5	4F(5D)4[2]	1.5	4F(5D)4[2]	92103.760	1.5	4F(5D)4[2]	92103.760	1.5	4F(5D)4[2]	1.5	4F(5D)4[2]	92103.760	1.5	4F(5D)4[2]
102503.810	1.5	4SP(3D)2D	1.5	4SP(3D)2D	102503.810	1.5	4SP(3D)2D	102503.810	1.5	4SP(3D)2D	1.5	4SP(3D)2D	102503.810	1.5	4SP(3D)2D
92089.260	3.5	4SP(5G)4F	3.5	4SP(5G)4F	92089.260	3.5	4SP(5G)4F	92089.260	3.5	4SP(5G)4F	3.5	4SP(5G)4F	92089.260	3.5	4SP(5G)4F
104937.800	4.5	4SP(3I)4H	4.5	4SP(3I)4H	104937.800	4.5	4SP(3I)4H	104937.800	4.5	4SP(3I)4H	4.5	4SP(3I)4H	104937.800	4.5	4SP(3I)4H
86547.490	2.5	4P(1F)2F	2.5	4P(1F)2F	86547.490	2.5	4P(1F)2F	86547.490	2.5	4P(1F)2F	2.5	4P(1F)2F	86547.490	2.5	4P(1F)2F
86929.649	3.5	4P(3P)4D	3.5	4P(3P)4D	86929.649	3.5	4P(3P)4D	86929.649	3.5	4P(3P)4D	3.5	4P(3P)4D	86929.649	3.5	4P(3P)4D
102449.100	2.5	4SP(3D)2D	2.5	4SP(3D)2D	102449.100	2.5	4SP(3D)2D	102449.100	2.5	4SP(3D)2D	2.5	4SP(3D)2D	102449.100	2.5	4SP(3D)2D
92418.729	2.5	4SP(5D)6F	2.5	4SP(5D)6F	92418.729	2.5	4SP(5D)6F	92418.729	2.5	4SP(5D)6F	2.5	4SP(5D)6F	92418.729	2.5	4SP(5D)6F
106690.170	5.5	4SP(3I)2H	5.5	4SP(3I)2H	106690.170	5.5	4SP(3I)2H	106690.170	5.5	4SP(3I)2H	5.5	4SP(3I)2H	106690.170	5.5	4SP(3I)2H
108863.200	3.5	160DD	3.5	160DD	108863.200	3.5	160DD	108863.200	3.5	160DD	3.5	160DD	108863.200	3.5	160DD
92647.510	1.5	4P(3F)4D	1.5	4P(3F)4D	92647.510	1.5	4P(3F)4D	92647.510	1.5	4P(3F)4D	1.5	4P(3F)4D	92647.510	1.5	4P(3F)4D
92358.610	1.5	4SP(5G)4F	1.5	4SP(5G)4F	92358.610	1.5	4SP(5G)4F	92358.610	1.5	4SP(5G)4F	1.5	4SP(5G)4F	92358.610	1.5	4SP(5G)4F
99808.400	3.5	4P(1G)2G	3.5	4P(1G)2G	99808.400	3.5	4P(1G)2G	99808.400	3.5	4P(1G)2G	3.5	4P(1G)2G	99808.400	3.5	4P(1G)2G
92329.890	2.5	4SP(5G)4F	2.5	4SP(5G)4F	92329.890	2.5	4SP(5G)4F	92329.890	2.5	4SP(5G)4F	2.5	4SP(5G)4F	92329.890	2.5	4SP(5G)4F
86767.577	2.5	4P(3P)4D	2.5	4P(3P)4D	86767.577	2.5	4P(3P)4D	86767.577	2.5	4P(3P)4D	2.5	4P(3P)4D	86767.577	2.5	4P(3P)4D
106863.200	3.5	160DD	3.5	160DD	106863.200	3.5	160DD	106863.200	3.5	160DD	3.5	160DD	106863.200	3.5	160DD
99757.120	4.5	4P(1G)2G	4.5	4P(1G)2G	99757.120	4.5	4P(1G)2G	99757.120	4.5	4P(1G)2G	4.5	4P(1G)2G	99757.120	4.5	4P(1G)2G
92282.460	3.5	4SP(5G)4F	3.5	4SP(5G)4F	92282.460	3.5	4SP(5G)4F	92282.460	3.5	4SP(5G)4F	3.5	4SP(5G)4F	92282.460	3.5	4SP(5G)4F
92274.120	2.5	4P(3P)4P	2.5	4P(3P)4P	92274.120	2.5	4P(3P)4P	92274.120	2.5	4P(3P)4P	2.5	4P(3P)4P	92274.120	2.5	4P(3P)4P
107196.200	2.5	180DD	2.5	180DD	107196.200	2.5	180DD	107196.200	2.5	180DD	2.5	180DD	107196.200	2.5	180DD
83871.184	4.5	4P(1F)2G	4.5	4P(1F)2G	83871.184	4.5	4P(1F)2G	83871.184	4.5	4P(1F)2G	4.5	4P(1F)2G	83871.184	4.5	4P(1F)2G
97326.270	1.5	4SP(3P)2P	1.5	4SP(3P)2P	97326.270	1.5	4SP(3P)2P	97326.270	1.5	4SP(3P)2P	1.5	4SP(3P)2P	97326.270	1.5	4SP(3P)2P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
119.9671	-0.244	21581.638	4.5	D6S (3H)4H	104937.800	4.5	4SP(31)4H	120.5909	-3.116	25981.629	3.5	D6S (3G)4G
119.9730	-6.254	20516.960	2.5	D7 (5D)2D	103869.020	1.5	4F(5D)1[2]	120.5975	-7.827	384.790	3.5	D6S (5D)6D
119.9749	-7.903	20340.300	5.5	D7 (5D)2D	103691.050	5.5	4F(5D)2[5]	120.5997	-0.993	26352.766	4.5	D6S (3H)2H
119.9893	-6.732	20516.960	2.5	D7 (5D)2D	103857.740	2.5	4F(5D)1[2]	120.6188	-9.356	20805.770	4.5	D7 (5D)2H
119.9929	-3.915	8680.454	1.5	D6S (5D)4D	92018.729	2.5	4SP(5D)6F	120.6259	-6.706	20516.960	2.5	D7 (5D)2D
120.0240	-0.331	21711.917	3.5	D6S (3H)4H	105028.600	3.5	4SP(31)4H	120.6332	-8.300	20805.770	4.5	D7 (5D)2D
120.0405	-0.758	0.000	4.5	D6S (5D)6D	83305.251	3.5	4P (1F)2G	120.6350	-5.291	8680.454	1.5	D6S (5D)4D
120.0475	-1.506	25428.784	5.5	D6S (3G)4G	108729.160	6.5	4SP(3G)4H	120.6428	-5.702	20516.960	2.5	D7 (5D)2D
120.0713	-3.374	16369.360	3.5	D7 (5D)2G	99653.220	4.5	4SP(3G)2G	120.6457	-1.708	25981.629	3.5	D6S (3G)4G
120.0893	-1.889	3117.461	1.5	D7 (5D)4F	86388.820	0.5	4P (3P)4D	120.6487	-6.269	20805.770	4.5	D7 (5D)2H
120.0968	-2.399	16369.360	3.5	D7 (5D)2G	99635.520	3.5	4SP(3G)2G	120.6527	-3.723	13474.411	2.5	D7 (5D)4P
120.1411	-5.101	8680.454	1.5	D6S (5D)4D	91915.950	1.5	4SP(5D)6F	120.6549	-3.135	20830.582	2.5	D6S (3P)4P
120.1415	-1.277	21581.638	4.5	D6S (3H)4H	104816.800	5.5	4SP(31)4H	120.6638	-7.326	20805.770	4.5	D7 (5D)2D
120.1506	-1.438	21430.359	5.5	D6S (3H)4H	104659.260	6.5	4SP(31)4H	120.6646	-5.638	20516.960	2.5	D7 (5D)2D
120.1549	-1.417	21711.917	3.5	D6S (3H)4H	104937.800	4.5	4SP(31)4H	120.6695	-8.378	20805.770	4.5	D7 (5D)2H
120.1676	-9.445	20805.770	4.5	D7 (5D)2H	104022.890	3.5	4F(5D)0[3]	120.6727	-5.499	20516.960	2.5	D7 (5D)2D
120.1695	-3.902	20830.582	2.5	D6S (3P)4P	104046.350	2.5	4F(5D)0[3]	120.6740	-3.820	20830.582	2.5	D6S (3P)4P
120.1732	-6.071	18360.646	1.5	D7 (5D)2P	101573.900	1.5	4SP(5D)4P	120.6983	-2.031	26055.423	2.5	D6S (3G)4G
120.1741	-4.861	7955.299	3.5	D6S (5D)4D	91167.937	3.5	5P (5D)6P	120.7031	-5.357	20516.960	2.5	D7 (5D)2D
120.1912	-7.825	667.683	2.5	D6S (5D)6D	83868.450	2.5	4P (1F)2D	120.7041	-2.538	26932.748	0.5	D6S (3P)2P
120.2001	-4.882	20516.960	2.5	D7 (5D)2D	103711.570	3.5	4F(5D)2[4]	120.7056	-4.207	20830.582	2.5	D6S (3P)4P
120.2034	-4.166	20830.582	2.5	D6S (3P)4P	104022.890	3.5	4F(5D)0[3]	120.7122	-5.154	25787.598	1.5	D6S (3P)2P
120.2166	-4.009	8391.938	2.5	D6S (5D)4D	91575.139	2.5	5P (5D)6P	120.7174	-6.030	20830.582	2.5	D6S (3P)4P
120.2191	-5.698	20516.960	2.5	D7 (5D)2D	103698.440	2.5	4F(5D)2[3]	120.7286	-3.926	20830.582	2.5	D6S (3P)4P
120.2333	-5.548	8680.454	1.5	D6S (5D)4D	91850.722	0.5	4SP(5D)6F	120.7354	-3.308	7955.299	3.5	D6S (3G)4G
120.2444	-9.728	20805.770	4.5	D7 (5D)2H	103969.760	3.5	4F(5D)1[3]	120.7360	-5.931	20516.960	2.5	D7 (5D)2D
120.2458	-4.020	8680.454	1.5	D6S (5D)4D	91843.470	1.5	5P (5D)6P	120.7384	-5.463	20516.960	2.5	D7 (5D)2D
120.2504	-6.474	20516.960	2.5	D7 (5D)2D	103676.780	3.5	4F(5D)2[3]	120.7480	-6.996	20516.960	2.5	D7 (5D)2D
120.2540	-4.634	20830.582	2.5	D6S (3P)4P	103987.930	2.5	4F(5D)1[3]	120.7482	-2.872	8391.938	2.5	D6S (3P)4P
120.2621	-8.044	20516.960	2.5	D7 (5D)2D	103668.690	1.5	4F(5D)1[1]	120.7512	-4.295	13474.411	2.5	D7 (5D)4P
120.2732	-5.891	20516.960	2.5	D7 (5D)2D	103660.980	2.5	4F(5D)2[2]	120.7655	-4.856	20340.300	5.5	D7 (5D)2H
120.2765	-3.548	25428.784	5.5	D6S (3G)4G	108570.560	4.5	4SP(3G)4G	120.8013	-5.014	8391.938	2.5	D6S (5D)4D
120.2802	-4.998	20830.582	2.5	D6S (3P)4P	103969.760	3.5	4F(5D)1[3]	120.8080	-2.338	25805.328	4.5	D6S (3G)4G
120.2960	-6.166	20516.960	2.5	D7 (5D)2D	103645.220	1.5	4F(5D)2[2]	120.8237	-2.338	15844.650	4.5	D7 (5D)2G
120.3149	-3.082	7955.299	3.5	D6S (5D)4D	91070.547	2.5	5P (5D)4F	120.8430	-4.416	15844.650	4.5	D7 (5D)2G
120.3347	-3.291	26170.181	5.5	D6S (3H)2H	109271.710	5.5	4SP(31)2I	120.8561	-4.416	13474.411	2.5	D7 (5D)4P
120.3350	-4.248	25805.328	4.5	D6S (3G)4G	108906.640	3.5	4SP(3G)4H	120.8630	-4.372	21308.040	1.5	D7 (5D)2D
120.3646	-6.086	20340.300	5.5	D7 (5D)2H	103421.180	6.5	4F(5D)3[6]	120.8831	-2.975	26055.423	2.5	D6S (3G)4G
120.3661	-8.539	20340.300	5.5	D7 (5D)2H	103420.160	5.5	4F(5D)3[6]	120.9207	-3.255	26170.181	5.5	D6S (3H)2H
120.3816	-4.413	8846.768	0.5	D6S (5D)4D	91915.950	1.5	4SP(5D)6F	120.9319	-4.229	15844.650	4.5	D7 (5D)2G
120.3830	-7.937	20805.770	4.5	D7 (5D)2H	103873.990	4.5	4F(5D)1[4]	120.9378	-5.547	18886.780	0.5	D7 (5D)2P
120.3896	-3.492	25805.328	4.5	D6S (3G)4G	108868.980	4.5	4SP(3G)4H	120.9431	-2.624	7955.299	3.5	D6S (5D)4D
120.4020	-1.702	25428.784	5.5	D6S (3G)4G	108483.870	5.5	4SP(3G)4G	120.9484	-5.793	21308.040	1.5	D7 (5D)2D
120.4035	-1.661	15844.650	4.5	D7 (5D)2G	98898.710	3.5	4P (1G)2F	120.9492	-5.254	20340.300	5.5	D7 (5D)2H
120.4064	-4.119	20830.582	2.5	D6S (3P)4P	103882.680	3.5	4F(5D)1[4]	120.9503	-2.660	8391.938	2.5	D6S (5D)4D
120.4214	-4.893	18360.646	1.5	D7 (5D)2P	101402.380	0.5	4SP(5D)4P	120.9504	-2.418	25981.629	3.5	D6S (3G)4G
120.4262	-4.426	20830.582	2.5	D6S (3P)4P	103869.020	1.5	4F(5D)1[2]	120.9676	-3.406	20516.960	2.5	D7 (5D)2D
120.4425	-4.847	20830.582	2.5	D6S (3P)4P	103857.740	2.5	4F(5D)1[2]	120.9783	-3.434	8391.938	2.5	D6S (5D)4D
120.4640	-8.676	20340.300	5.5	D7 (5D)2H	103352.680	4.5	4F(5D)3[5]	120.9829	-3.032	21308.040	1.5	D7 (5D)2D
120.4735	-6.809	862.613	1.5	D6S (5D)6D	83868.450	2.5	4P (1F)2D	120.9929	-3.362	25981.629	3.5	D6S (3G)4G
120.4761	-1.504	25805.328	4.5	D6S (3G)4G	108809.310	5.5	4SP(3G)4H	120.9956	-3.934	25981.629	3.5	D6S (3G)4G
120.4762	-4.899	8846.768	0.5	D6S (5D)4D	91850.722	2.5	4SP(5D)6F	121.0068	-5.282	26170.181	5.5	D7 (5D)2H
120.4867	-5.018	8846.768	0.5	D6S (5D)4D	91843.470	1.5	5P (5D)6P	121.0081	-2.909	20340.300	5.5	D7 (5D)2D
120.4930	-3.940	25787.598	1.5	D6S (3P)2P	108780.000	1.5	2700D	121.0103	-7.707	667.683	2.5	D6S (5D)6D
120.5021	-7.986	20340.300	5.5	D7 (5D)2H	103326.410	4.5	4F(5D)3[4]	121.0443	-5.858	20805.770	4.5	D7 (5D)2H
120.5028	-6.876	20340.300	5.5	D7 (5D)2H	103325.950	5.5	4F(5D)3[5]	121.0490	-6.866	20340.300	5.5	D7 (5D)2H
120.5117	-0.979	26170.181	5.5	D6S (3H)2H	109149.680	6.5	4SP(31)2I	121.0561	-5.144	13673.185	1.5	D7 (5D)4P
120.5606	-3.256	7955.299	3.5	D6S (5D)4D	90901.124	2.5	5P (5D)4P	121.0744	-5.503	20516.960	2.5	D7 (5D)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
121.0816	-2.274	25981.629	3.5	D6S (3G)4G	108570.560	4.5	48P(3G)4G	121.4150	-2.391	8846.768	0.5	D6S (5D)4D	91208.887	1.5	5P (5D)4F
121.0840	-4.518	20830.582	2.5	D6S (3P)4P	103417.910	1.5	4F(5D)3[11]	121.4172	-5.873	21308.040	1.5	D7 (5D)2D	103668.690	1.5	4F(5D)2[11]
121.0887	-4.074	25787.598	1.5	D6S (3P)2P	108371.700	1.5	2500D	121.4283	-4.997	20830.582	2.5	D6S (3P)4P	103183.700	3.5	48P(3D)2F
121.0948	-7.691	20805.770	4.5	D7 (5D)2H	103385.730	3.5	4F(5D)3[3]	121.4285	-3.233	8846.768	0.5	D6S (5D)4D	91199.746	0.5	5P (5D)4D
121.1010	-3.585	20830.582	2.5	D6S (3P)4P	103406.250	2.5	4F(5D)3[2]	121.4398	-2.935	7955.269	3.5	D6S (5D)4D	90300.625	3.5	5P (5D)4D
121.1011	-2.375	26055.423	2.5	D6S (3G)4G	108631.090	3.5	48P(3G)4G	121.4432	-1.913	21308.040	1.5	D7 (5D)2D	108130.600	2.5	2200D
121.1037	-3.952	26055.423	2.5	D6S (3G)4G	108629.250	2.5	48P(3G)4G	121.4518	-9.029	21711.917	3.5	D6S (3H)4H	104046.320	2.5	4F(5D)0[3]
121.1116	-4.332	25805.328	4.5	D6S (3G)4G	108373.800	3.5	2600D	121.4559	-4.710	13673.185	1.5	D7 (5D)4P	95995.690	2.5	48P(5P)4D
121.1226	-5.692	21308.040	1.5	D7 (5D)2D	103869.020	1.5	4F(5D)1[2]	121.4735	-4.710	13673.185	1.5	D7 (5D)4P	95995.690	2.5	48P(5P)4D
121.1230	-3.964	20830.582	2.5	D6S (3P)4P	103391.290	1.5	4F(5D)3[2]	121.4796	-4.405	26055.423	2.5	D6S (3G)4G	108371.700	1.5	2500D
121.1255	-3.252	26170.181	5.5	D6S (3H)2H	108729.160	6.5	48P(3G)4H	121.4827	-2.180	26055.423	2.5	D6S (3G)4G	108371.700	1.5	2500D
121.1311	-3.295	20830.582	2.5	D6S (3P)4P	103385.730	3.5	4F(5D)3[3]	121.4865	-3.304	26170.181	5.5	D6S (3H)2H	108483.870	5.5	48P(3G)4G
121.1330	-3.072	26352.766	4.5	D6S (3H)2H	108906.640	3.5	48P(3G)4H	121.4905	-9.021	21711.917	3.5	D6S (3H)4H	104022.890	3.5	4F(5D)0[3]
121.1342	-5.982	20340.300	5.5	D7 (5D)2H	102893.380	5.5	4F(5D)4[6]	121.5038	-1.833	22637.205	4.5	D6S (3F)4F	104937.800	4.5	48P(3I)4H
121.1391	-5.250	21308.040	1.5	D7 (5D)2H	103857.740	2.5	4F(5D)1[2]	121.5180	-9.456	21581.638	4.5	D6S (3H)4H	103873.990	4.5	4F(5D)1[4]
121.1436	-7.425	15844.650	4.5	D7 (5D)2G	103352.680	4.5	4F(5D)3[5]	121.5339	-3.988	20830.582	2.5	D6S (3P)4P	103110.790	1.5	4F(5D)4[11]
121.1503	-7.091	20340.300	5.5	D7 (5D)2H	102882.370	4.5	4F(5D)4[4]	121.5387	-3.750	26352.766	4.5	D6S (3H)2H	108631.090	3.5	48P(3G)4G
121.1594	-1.096	25428.784	5.5	D6S (3G)4G	107964.700	4.5	2100D	121.5421	-9.728	21711.917	3.5	D6S (3H)4H	103987.930	2.5	4F(5D)1[3]
121.1609	-8.982	20805.770	4.5	D7 (5D)2H	103340.640	3.5	4F(5D)3[4]	121.5690	-8.429	21711.917	3.5	D6S (3H)4H	103969.760	3.5	4F(5D)1[3]
121.1618	-3.625	20830.582	2.5	D6S (3P)4P	103364.840	2.5	4F(5D)3[3]	121.5694	-2.627	25981.629	3.5	D6S (3G)4G	108239.220	3.5	2400D
121.1644	-3.871	7955.299	3.5	D6S (5D)4D	90487.810	2.5	5P (5D)6F	121.5852	-2.548	8391.938	2.5	D6S (5D)4D	90629.902	1.5	4P (3P)4S
121.1690	-2.207	16369.360	3.5	D7 (5D)2G	98988.710	3.5	4P (1G)2F	121.5983	-4.627	8391.938	2.5	D6S (5D)4D	90629.902	1.5	4P (3P)4S
121.1704	-2.406	8680.454	1.5	D6S (5D)4D	101208.887	1.5	5P (5D)4F	121.6038	-3.105	21812.055	1.5	D6S (5D)4D	104046.350	2.5	4F(5D)0[3]
121.1809	-3.845	13474.411	2.5	D7 (5D)4P	95995.690	2.5	48P(5P)4F	121.6141	-6.466	16369.360	3.5	D6S (3P)4P	98596.650	4.5	48P(5D)4F
121.1818	-7.767	20805.770	4.5	D7 (5D)2H	103326.410	4.5	4F(5D)3[4]	121.6239	-2.451	8680.454	1.5	D6S (5D)4D	90901.124	2.5	5P (5D)4F
121.1825	-7.259	20805.770	4.5	D7 (5D)2H	103325.950	5.5	4F(5D)3[5]	121.6272	-2.973	8680.454	1.5	D6S (5D)4D	90901.124	2.5	5P (5D)4F
121.1838	-3.002	8680.454	1.5	D6S (5D)4D	91199.746	0.5	5P (5D)4D	121.6275	-2.144	22810.357	3.5	D6S (3F)4F	105028.600	3.5	48P(3I)4H
121.1860	-5.457	20516.960	2.5	D7 (5D)2D	103034.760	1.5	4F(5D)4[2]	121.6282	-3.283	26352.766	4.5	D6S (3H)2H	108570.560	4.5	48P(3G)4G
121.1883	-3.210	26352.766	4.5	D6S (3H)2H	108868.980	4.5	48P(3G)4H	121.6483	-3.934	20830.582	2.5	D6S (3P)4P	103034.760	1.5	4F(5D)4[2]
121.1892	-5.079	18886.780	0.5	D7 (5D)2P	101402.380	0.5	48P(5D)4F	121.6522	-5.026	8391.938	2.5	D6S (5D)4D	90593.497	1.5	5P (5D)6F
121.1959	-7.431	20340.300	5.5	D7 (5D)2P	102851.360	4.5	4F(5D)4[5]	121.6523	-2.356	20846.768	0.5	D6S (5D)4D	91048.256	1.5	5P (5D)4D
121.1973	-3.642	20830.582	2.5	D6S (3P)4P	103340.640	3.5	4F(5D)3[4]	121.6638	-3.662	13673.185	1.5	D7 (5D)4P	103024.290	2.5	4F(5D)4[2]
121.1986	-3.008	8391.938	2.5	D6S (5D)4D	90901.124	2.5	5P (5D)4F	121.6769	-4.032	13673.185	1.5	D7 (5D)4P	95858.050	1.5	48P(5P)4D
121.2014	-5.141	20516.960	2.5	D7 (5D)2D	103024.290	2.5	4F(5D)4[2]	121.6785	-4.199	22637.205	4.5	D6S (3G)4G	108239.200	3.5	2400D
121.2019	-3.280	8391.938	2.5	D6S (5D)4D	90898.873	1.5	4P (3P)4P	121.6847	-1.564	26352.766	4.5	D6S (3F)4F	104816.200	5.5	48P(3I)4H
121.2070	-4.135	20830.582	2.5	D6S (3P)4P	103334.100	6.5	48P(3D)2F	121.6902	-4.243	21812.055	1.5	D6S (3P)4P	103987.930	2.5	4F(5D)1[3]
121.2122	-7.001	20340.300	5.5	D7 (5D)2P	102840.250	6.5	4F(5D)4[6]	121.6922	-4.199	20805.770	4.5	D7 (5D)2H	102980.300	5.5	48P(3I)4I
121.2160	-2.849	26352.766	4.5	D6S (3H)2H	108809.310	5.5	48P(3G)4H	121.7041	-4.437	16369.360	3.5	D7 (5D)2G	98535.850	3.5	48P(5D)4F
121.2195	-2.389	7955.299	3.5	D6S (5D)4D	90397.868	3.5	5P (5D)4D	121.7107	-7.177	21711.917	3.5	D6S (3H)4H	103873.990	4.5	4F(5D)1[4]
121.2298	-9.731	21581.638	4.5	D6S (3H)4H	104022.890	3.5	4F(5D)0[3]	121.7143	-2.906	27620.412	2.5	D6S (3F)2F	109780.480	0.5	4P (3P)4P
121.3075	-5.101	20516.960	2.5	D7 (5D)2D	102952.120	2.5	4F(5D)4[3]	121.7147	-1.450	25805.328	4.5	D6S (3G)4G	107964.700	4.5	2100D
121.3090	-4.582	15844.650	4.5	D7 (5D)2G	98278.770	5.5	4P (1G)2H	121.7152	-4.548	8680.454	1.5	D6S (5D)4D	109780.480	0.5	4P (3P)4P
121.3094	-1.813	25805.328	4.5	D6S (3G)4G	108239.200	3.5	2400D	121.7205	-2.169	21812.055	1.5	D6S (3P)4P	103967.490	0.5	48P(3P)2S
121.3132	-1.698	7955.299	3.5	D6S (5D)4D	90386.528	4.5	5P (5D)4F	121.7291	-5.701	20340.300	5.5	D7 (5D)2H	102489.900	6.5	48P(3I)4K
121.3221	-5.180	20516.960	2.5	D7 (5D)2D	102942.200	3.5	4F(5D)4[3]	121.7301	-2.128	25981.629	3.5	D6S (3G)4G	108130.600	2.5	2200D
121.3533	-3.810	25787.598	1.5	D6S (3P)2P	108191.600	1.5	2300D	121.7349	-4.859	20805.770	4.5	D7 (5D)2H	102951.500	4.5	48P(3I)4I
121.3587	-5.348	26170.181	5.5	D6S (3H)2H	108570.560	4.5	48P(3G)4G	121.7349	-4.859	20805.770	4.5	D7 (5D)2H	102942.200	3.5	4F(5D)4[3]
121.3708	-3.111	25981.629	3.5	D6S (3H)2H	108373.800	3.5	2600D	121.7487	-8.867	20805.770	4.5	D7 (5D)2H	102942.200	3.5	4F(5D)4[3]
121.3719	-2.794	22637.205	4.5	D6S (3F)4F	105028.600	3.5	48P(3I)4H	121.7490	-5.231	26055.423	2.5	D6S (3G)4G	108191.600	1.5	2300D
121.3734	-7.102	21308.040	1.5	D7 (5D)2D	103698.440	2.5	4F(5D)2[3]	121.7566	-3.123	16369.360	3.5	D7 (5D)2G	98505.100	2.5	48P(5D)4D
121.3738	-2.158	8680.454	1.5	D6S (5D)4D	91070.547	2.5	5P (5D)4F	121.7566	-3.123	16369.360	3.5	D7 (5D)2G	98505.100	2.5	48P(5D)4D
121.3759	-1.948	8391.938	2.5	D6S (5D)4D	90780.621	3.5	5P (5D)4F	121.7593	-6.143	21308.040	1.5	D7 (5D)2D	103437.280	0.5	4F(5D)3[11]
121.3833	-4.017	13474.411	2.5	D7 (5D)4P	95858.050	1.5	48P(5P)4D	121.7620	-1.639	22810.357	3.5	D6S (3F)4F	104937.800	4.5	48P(3I)4H
121.3917	-3.845	20805.770	4.5	D7 (5D)2H	103183.700	3.5	48P(3D)2F	121.7707	-3.605	20830.582	2.5	D6S (3P)4P	102952.120	2.5	4F(5D)4[3]
121.4032	-5.153	20516.960	2.5	D7 (5D)2D	102887.120	3.5	4F(5D)4[4]	121.7729	-8.766	21581.638	4.5	D6S (3H)4H	103701.720	4.5	4F(5D)2[5]
121.4061	-8.035	21308.040	1.5	D7 (5D)2D	103676.220	0.5	4F(5D)2[11]	121.7848	-2.267	7955.299	3.5	D6S (5D)4D	90067.347	4.5	5P (5D)6F
121.4067	-3.669	8680.454	1.5	D6S (5D)4D	91048.256	1.5	5P (5D)4D	121.7854	-3.694	20830.582	2.5	D6S (3P)4P	102942.200	3.5	4F(5D)4[3]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
121.7878	-5.261	21308.040	1.5	D7 (5D)2D	103418.080	0.5	4F(5D)3[0]	122.1918	-6.601	21581.638	4.5	D6S (3H)4H	103420.160	5.5	4F(5D)3[6]	
121.7880	-6.019	21308.040	1.5	D7 (5D)2D	103417.910	1.5	4F(5D)3[1]	122.1998	-5.295	21812.055	1.5	D6S (3P)4P	103645.220	1.5	4F(5D)2[2]	
121.7887	-7.202	21581.638	4.5	D6S (3H)4H	103691.050	5.5	4F(5D)2[5]	122.2028	-2.971	26055.423	2.5	D6S (3G)4G	107896.600	3.5	2000D	
121.8042	-8.052	21581.638	4.5	D6S (3H)4H	103680.640	4.5	4F(5D)2[4]	122.2231	-4.777	21308.040	1.5	D7 (5D)2D	103125.650	0.5	4F(5D)4[11]	
121.8053	-6.611	21308.040	1.5	D7 (5D)2D	103406.250	2.5	4F(5D)3[2]	122.2384	-2.449	8680.454	1.5	D6S (5D)4D	90487.810	2.5	5P (5D)6F	
121.8098	-2.776	8391.938	2.5	D6S (5D)4D	90487.810	2.5	5P (5D)6F	122.2433	-8.469	21581.638	4.5	D6S (3H)4H	103385.730	3.5	4F(5D)3[3]	
121.8099	-8.751	21581.638	4.5	D6S (3H)4H	103676.780	3.5	4F(5D)2[3]	122.2472	-5.883	8846.768	0.5	D6S (5D)4D	90648.217	0.5	5P (5D)6F	
121.8108	-4.153	13673.185	1.5	D7 (5D)4P	95767.700	0.5	4SP(5P)4D	122.2576	-2.548	26170.181	5.5	D6S (3H)2H	107964.700	4.5	2100D	
121.8186	-1.944	22939.358	2.5	D6S (3F)4F	105028.600	3.5	4SP(3I)4H	122.2912	-7.676	7955.299	3.5	D6S (5D)4D	89727.342	2.5	4P (3F)4G	
121.8211	-8.345	20805.770	4.5	D7 (5D)2H	102893.380	5.5	4F(5D)4[6]	122.3291	-3.099	8846.768	0.5	D6S (5D)4D	90629.902	1.5	4P (3F)4S	
121.8213	-6.504	7955.299	3.5	D6S (5D)4D	90042.779	4.5	4P (3F)4G	122.3320	-7.216	21308.040	1.5	D7 (5D)2D	102980.300	5.5	4SP(3I)4I	
121.8275	-5.418	21308.040	1.5	D7 (5D)2D	103391.290	1.5	4F(5D)3[2]	122.3561	-3.868	21581.638	4.5	D6S (3H)4H	103325.950	5.5	4F(5D)3[5]	
121.8304	-8.791	20805.770	4.5	D7 (5D)2H	102887.120	3.5	4F(5D)4[4]	122.3590	-4.873	21308.040	1.5	D7 (5D)2D	102980.300	5.5	4SP(3I)4I	
121.8305	-1.095	25805.328	4.5	D6S (3G)4G	107886.600	3.5	2000D	122.3747	-5.171	21308.040	1.5	D7 (5D)2D	103024.290	2.5	4F(5D)4[2]	
121.8374	-8.716	20805.770	4.5	D7 (5D)2H	102882.370	4.5	4F(5D)4[4]	122.3826	-8.620	23317.633	2.5	D5S2(7S)6S	105028.600	3.5	4SP(3I)4H	
121.8395	-2.844	26055.423	2.5	D6S (3G)4G	108130.600	2.5	2200D	122.4075	-8.332	21711.917	3.5	D6S (3H)4H	103406.250	2.5	4F(5D)3[2]	
121.8666	-4.295	21812.055	1.5	D6S (3P)4P	103869.020	1.5	4F(5D)1[2]	122.4132	-0.331	21430.359	5.5	D6S (3H)4H	103120.900	6.5	4SP(3I)4I	
121.8672	-3.646	20830.582	2.5	D6S (3P)4P	102887.120	3.5	4F(5D)4[4]	122.4391	-4.162	20830.582	2.5	D6S (3P)4P	102449.100	2.5	4SP(3D)2F	
121.8733	-3.120	8846.768	0.5	D6S (5D)4D	90898.873	1.5	4P (3P)4P	122.4696	-8.611	21711.917	3.5	D6S (3H)4H	103364.840	2.5	4F(5D)3[3]	
121.8833	-4.124	21812.055	1.5	D6S (3P)4P	103857.740	2.5	4F(5D)1[2]	122.4829	-5.134	21308.040	1.5	D7 (5D)2D	102952.120	2.5	4F(5D)4[3]	
121.8835	-9.092	20805.770	4.5	D7 (5D)2H	102851.360	4.5	4F(5D)4[5]	122.4878	-8.467	21711.917	3.5	D6S (3H)4H	103352.680	4.5	4F(5D)3[5]	
121.8922	-3.688	18360.646	1.5	D7 (5D)2P	100400.360	2.5	4SP(3P)2D	122.5059	-6.637	21711.917	3.5	D6S (3H)4H	103340.640	3.5	4F(5D)3[4]	
121.9125	-3.936	21308.040	1.5	D7 (5D)2D	103334.100	2.5	4SP(3D)2F	122.5111	-5.347	21812.055	1.5	D6S (3P)4P	103437.280	0.5	4F(5D)3[11]	
121.9186	-7.983	16369.360	3.5	D7 (5D)2G	98391.330	3.5	4SP(5D)4D	122.5157	-3.239	21711.917	3.5	D6S (3H)4H	103334.100	2.5	4SP(3D)2F	
121.9199	-2.349	26352.766	4.5	D6S (3H)2H	108373.800	3.5	2600D	122.5212	-2.620	20830.582	2.5	D6S (3P)4P	102449.100	2.5	4SP(3D)2F	
121.9413	-2.574	15844.650	4.5	D7 (5D)2G	97851.350	4.5	4P (1G)2H	122.5273	-8.684	21711.917	3.5	D6S (3H)4H	103364.840	2.5	4F(5D)3[4]	
121.9424	-6.414	8391.938	2.5	D6S (5D)4D	90397.868	3.5	5P (5D)4D	122.5311	-5.740	26352.766	4.5	D6S (3H)2H	107964.700	4.5	2100D	
121.9512	-6.037	20340.300	5.5	D7 (5D)2H	102340.300	5.5	4SP(3I)4K	122.5400	-4.038	21812.055	1.5	D6S (3P)4P	103418.080	0.5	4F(5D)3[10]	
121.9517	-7.463	21711.917	3.5	D6S (3H)4H	103711.570	3.5	4F(5D)2[4]	122.5402	-8.519	13474.411	2.5	D7 (5D)4P	103417.910	1.5	4F(5D)3[11]	
121.9533	-4.215	1872.567	4.5	D7 (5D)4F	83871.184	4.5	4P (1F)2G	122.5412	-3.418	13474.411	2.5	D7 (5D)4P	95079.640	3.5	4P (3F)2F	
121.9621	-4.858	8846.768	0.5	D6S (5D)4D	90839.480	0.5	4P (3P)4P	122.5459	-3.292	21581.638	4.5	D6S (3H)4H	103183.700	3.5	4SP(3D)2F	
121.9664	-6.790	21711.917	3.5	D6S (3H)4H	103701.720	4.5	4F(5D)2[5]	122.5577	-4.961	21812.055	1.5	D6S (3P)4P	103406.250	2.5	4F(5D)3[2]	
121.9708	-6.434	20516.960	2.5	D7 (5D)2D	102503.810	1.5	4SP(3D)2D	122.5615	-4.033	27314.922	3.5	D6S (3F)2F	108906.640	3.5	4SP(3G)4H	
121.9713	-8.810	21711.917	3.5	D6S (3H)4H	103698.440	2.5	4F(5D)2[3]	122.5651	-9.365	21430.359	5.5	D6S (3H)4H	103019.670	6.5	4F(5D)4[7]	
121.9731	-5.869	16369.360	3.5	D7 (5D)2G	98354.660	2.5	4SP(5D)4F	122.5802	-4.056	21812.055	1.5	D6S (3P)4P	103391.290	1.5	4F(5D)3[12]	
121.9764	-2.789	25981.629	3.5	D6S (3G)4G	107964.700	4.5	2100D	122.5827	-3.651	25428.784	5.5	D6S (3G)4G	107006.350	4.5	4SP(3I)2H	
121.9802	-0.300	21251.608	6.5	D6S (3H)4H	103232.100	7.5	4SP(3I)4I	122.5916	-4.555	13474.411	2.5	D7 (5D)4P	95046.100	2.5	4P (3F)2F	
121.9978	-9.334	21711.917	3.5	D6S (3H)4H	103680.640	4.5	4F(5D)2[4]	122.6019	-3.240	13474.411	2.5	D7 (5D)4P	95039.200	1.5	4P (3P)2P	
121.9992	-5.404	8680.454	1.5	D6S (5D)4D	90648.217	0.5	5P (5D)6F	122.6127	-3.796	22409.852	0.5	D6S (3P)4P	103967.490	0.5	4SP(3P)2S	
122.0035	-8.501	21711.917	3.5	D6S (3H)4H	103676.780	3.5	4F(5D)2[1]	122.6181	-5.248	27314.922	3.5	D6S (3F)2F	108868.980	4.5	4SP(3G)4H	
122.0035	-3.072	8680.454	1.5	D6S (5D)4D	90638.822	2.5	5P (5D)4D	122.6200	-4.360	21812.055	1.5	D6S (3P)4P	103364.840	2.5	4F(5D)3[13]	
122.0208	-5.305	13904.824	0.5	D7 (5D)4P	95858.050	1.5	4SP(5P)4D	122.6242	-2.205	21430.359	5.5	D6S (3H)4H	102980.300	5.5	4SP(3I)4I	
122.0264	-4.694	8680.454	1.5	D6S (5D)4D	90629.902	1.5	4P (3P)4S	122.6475	-5.466	20805.770	4.5	D7 (5D)2H	102340.300	5.5	4SP(3I)4I	
122.0270	-9.580	21711.917	3.5	D6S (3H)4H	103660.980	2.5	4F(5D)2[2]	122.6485	-3.524	26352.766	4.5	D6S (3H)2H	107886.600	3.5	2000D	
122.0479	-6.522	7955.299	3.5	D6S (5D)4D	89890.373	3.5	4P (3F)4G	122.6662	-3.835	21812.055	1.5	D6S (3P)4P	103334.100	2.5	4SP(3D)2F	
122.0522	-4.319	20516.960	2.5	D7 (5D)2D	102449.100	2.5	4SP(3D)2F	122.6665	-3.408	2837.950	2.5	D7 (5D)4F	84359.800	1.5	4P (1F)2D	
122.0807	-3.489	8680.454	1.5	D6S (5D)4D	90593.497	1.5	5P (5D)6F	122.6676	-5.153	21430.359	5.5	D6S (3H)4H	102951.500	4.5	4SP(3I)4I	
122.0872	-2.051	8391.938	2.5	D6S (5D)4D	90300.625	3.5	5P (5D)6F	122.7017	-5.511	8391.938	2.5	D6S (5D)4D	89890.373	3.5	4P (3F)4G	
122.0927	-1.607	25981.629	3.5	D6S (3G)4G	107886.600	3.5	2000D	122.7157	-5.790	7955.299	3.5	D6S (5D)4D	89444.458	2.5	4SP(5P)6P	
122.1204	-5.650	26352.766	4.5	D6S (3H)2H	108239.200	3.5	2400D	122.7265	-4.400	16369.360	3.5	D7 (5D)2G	97851.350	4.5	4P (1G)2H	
122.1459	-3.118	21251.608	6.5	D6S (3H)4H	103120.900	6.5	4SP(3I)4I	122.7419	-4.475	21711.917	3.5	D6S (3H)4H	103183.700	3.5	4SP(3D)2F	
122.1536	-5.581	21812.055	1.5	D6S (3P)4P	103676.780	3.5	4F(5D)2[1]									
122.1555	-4.431	13904.824	0.5	D7 (5D)4P	95767.700	0.5	4SP(5P)4D									
122.1648	-4.362	21812.055	1.5	D6S (3P)4P	103668.690	1.5	4F(5D)2[1]									
122.1763	-5.074	21812.055	1.5	D6S (3P)4P	103660.980	2.5	4F(5D)2[2]									
122.1788	-1.830	26932.748	0.5	D6S (3P)2P	108780.000	1.5	2700D									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
122.7609	-3.460	22409.852	0.5	D6S (3P)4P	103869.020	1.5	4F(5D)1[2]	123.2071	-4.710	7955.299	3.5	D6S (5D)4D	89119.457	2.5	5P (5D)6D
122.7881	-3.978	2430.097	3.5	D7 (5D)4F	83871.184	4.5	4P (1F)2G	123.2140	-1.950	27620.412	2.5	D6S (3F)2F	108780.000	1.5	270DD
122.7914	-1.846	26932.748	0.5	D6S (3P)2P	108371.700	1.5	250DD	123.2143	-6.094	22810.357	3.5	D6S (3F)4F	103969.760	3.5	4F(5D)1[3]
122.7923	-3.168	2430.097	3.5	D7 (5D)4F	83868.450	2.5	4P (1F)2D	123.2422	-2.586	21308.040	1.5	D7 (5D)2D	102449.100	2.5	4SP(3D)2D
122.8008	-6.381	1872.567	4.5	D7 (5D)4F	83065.251	3.5	4P (1F)2G	123.2426	-2.586	26055.423	2.5	D6S (3G)4G	107196.200	2.5	180DD
122.8371	-3.850	25787.598	1.5	D6S (3P)2P	107196.200	2.5	180DD	123.2437	-3.978	21812.055	1.5	D6S (3P)4P	102952.120	2.5	4F(5D)4[3]
122.8521	-0.373	21581.638	4.5	D6S (3H)4H	102980.390	5.5	4SP(3I)4I	123.2544	-7.350	21711.917	3.5	D6S (3H)4H	102851.360	4.5	4F(5D)4[5]
122.8717	-7.610	22637.205	4.5	D6S (3F)4F	104022.890	3.5	4F(5D)0[3]	123.2546	-2.959	13904.824	0.5	D7 (5D)4P	95039.200	1.5	4P (3D)2P
122.8910	-4.095	13673.185	1.5	D7 (5D)4P	95046.100	2.5	4P (3F)2F	123.2891	-3.866	26055.423	2.5	D6S (3G)4G	107165.600	3.5	170DD
122.8956	-2.006	21581.638	4.5	D6S (3H)4H	102951.500	4.5	4SP(3I)4I	123.2939	-7.403	22939.358	2.5	D6S (3F)4F	104046.300	2.5	4F(5D)0[13]
122.9014	-4.940	13673.185	1.5	D7 (5D)4P	95039.200	1.5	4P (3P)2P	123.3218	-7.403	21251.608	6.5	D6S (3H)4H	102340.350	5.5	4SP(3I)4K
122.9047	-4.940	21581.638	4.5	D6S (3H)4H	102982.890	3.5	4F(5D)0[3]	123.3296	-5.160	22939.358	2.5	D6S (3F)4F	104022.890	3.5	4F(5D)0[13]
122.9101	-2.020	25805.328	4.5	D6S (3G)4G	107165.600	3.5	170DD	123.3436	-6.913	22637.205	4.5	D6S (3F)4F	103711.570	3.5	4F(5D)2[4]
122.9477	-6.392	8391.938	2.5	D6S (5D)4D	89727.342	2.5	4P (3F)4G	123.3467	-7.023	22810.357	3.5	D6S (3F)4F	103882.680	3.5	4F(5D)1[4]
122.9520	-8.565	22637.205	4.5	D6S (3F)4F	103969.760	3.5	4F(5D)1[3]	123.3563	-4.181	13673.185	1.5	D7 (5D)4P	94739.170	1.5	4SP(5P)4P
122.9768	-3.192	27314.922	3.5	D6S (3F)2F	108631.090	3.5	4SP(3G)4G	123.3585	-6.650	22637.205	4.5	D6S (3F)4F	103701.720	4.5	4F(5D)2[5]
122.9796	-8.639	27314.922	3.5	D6S (3F)2F	108629.200	2.5	4SP(3G)4G	123.3599	-4.845	22810.357	3.5	D6S (3F)4F	103873.990	4.5	4F(5D)1[4]
122.9807	-3.588	21812.055	1.5	D6S (3P)4P	103125.650	0.5	4F(5D)4[1]	123.3661	-0.919	21430.359	5.5	D6S (3H)4H	102489.900	6.5	4SP(3I)4K
122.9825	-7.691	21711.917	3.5	D6S (3H)4H	103024.290	2.5	4F(5D)4[2]	123.3671	-4.035	27314.922	3.5	D6S (3F)2F	108373.800	3.5	260DD
122.9835	-5.952	21581.638	4.5	D6S (3H)4H	102893.380	5.5	4F(5D)4[6]	123.3686	-1.992	25805.328	4.5	D6S (3G)4G	106863.200	3.5	160DD
122.9892	-7.511	21581.638	4.5	D6S (3H)4H	102887.120	3.5	4F(5D)4[4]	123.3701	-4.558	20516.960	2.5	D7 (5D)2D	101573.900	1.5	4SP(5D)4P
123.0001	-6.521	21581.638	4.5	D6S (3H)4H	102882.370	4.5	4F(5D)4[4]	123.3748	-5.107	22637.205	4.5	D6S (3F)4F	103691.050	5.5	4F(5D)2[5]
123.0031	-3.803	21812.055	1.5	D6S (3P)4P	103110.790	1.5	4F(5D)4[1]	123.3768	-4.582	8391.938	2.5	D6S (5D)4D	89444.458	2.5	4SP(5P)6P
123.0182	-5.140	13474.411	2.5	D7 (5D)4P	94763.219	3.5	4SP(5D)6P	123.3828	-6.519	22939.358	2.5	D6S (3F)4F	103987.990	2.5	4F(5D)1[3]
123.0221	-5.164	26932.748	0.5	D6S (3P)2P	108906.660	3.5	4SP(3G)4G	123.3846	-7.926	22810.357	3.5	D6S (3F)4F	103857.740	2.5	4F(5D)1[2]
123.0471	-6.992	21581.638	4.5	D6S (3H)4H	102851.360	4.5	4F(5D)4[5]	123.3854	-5.736	8680.454	1.5	D6S (5D)4D	89727.342	2.5	4P (3F)4G
123.0521	-3.750	22409.852	0.5	D6S (3P)4P	103676.220	0.5	4F(5D)2[1]	123.3905	-6.632	22637.205	4.5	D6S (3F)4F	103680.640	4.5	4F(5D)2[4]
123.0546	-2.851	13474.411	2.5	D7 (5D)4P	94739.170	1.5	4SP(5P)4P	123.3966	-5.946	22637.205	4.5	D6S (3F)4F	103676.780	3.5	4F(5D)2[3]
123.0597	-1.247	25428.784	5.5	D6S (3G)4G	106690.170	5.5	4SP(3I)2H	123.4103	-3.133	2837.990	2.5	D7 (5D)4F	83868.450	2.5	4P (1F)2D
123.0635	-4.146	26932.748	0.5	D6S (3P)2P	108191.600	1.5	230DD	123.4105	-5.355	22939.358	2.5	D6S (3F)4F	103969.760	3.5	4F(5D)1[13]
123.0635	-4.173	22409.852	0.5	D6S (3P)4P	103668.690	1.5	4F(5D)2[1]	123.4149	-3.299	13673.185	1.5	D7 (5D)4P	94700.660	2.5	4P (3F)2D
123.0684	-4.010	27314.922	3.5	D6S (3F)2F	108570.560	4.5	4SP(3G)4G	123.4150	-3.299	22409.852	0.5	D6S (3P)4P	103437.280	0.5	4F(5D)3[1]
123.0774	-8.761	21581.638	4.5	D6S (3H)4H	102831.320	5.5	4F(5D)4[5]	123.4191	-3.038	25981.629	3.5	D6S (3G)4G	107006.350	4.5	4SP(3I)2H
123.0838	-8.187	22637.205	4.5	D6S (3F)4F	103882.680	3.5	4F(5D)1[4]	123.4339	-5.424	23031.300	1.5	D6S (3F)4F	104046.350	2.5	4F(5D)0[3]
123.0885	-3.158	3117.461	1.5	D7 (5D)4F	84359.800	1.5	4P (1F)2D	123.4386	-3.352	13673.185	1.5	D7 (5D)4P	94685.090	2.5	4SP(5D)6P
123.0918	-7.714	21711.917	3.5	D6S (3H)4H	102952.120	2.5	4F(5D)4[3]	123.4405	-4.127	27620.412	2.5	D6S (3F)2F	108631.090	3.5	4SP(3G)4G
123.0927	-0.404	21711.917	3.5	D6S (3H)4H	102951.500	4.5	4SP(3I)4I	123.4433	-2.702	27620.412	2.5	D6S (3F)2F	108629.250	2.5	4SP(3G)4G
123.0947	-2.738	21251.608	6.5	D6S (3H)4H	102489.900	6.5	4SP(3I)4K	123.4443	-5.107	22409.852	0.5	D6S (3P)4P	103418.080	0.5	4F(5D)3[0]
123.0969	-7.408	22637.205	4.5	D6S (3F)4F	103873.990	4.5	4F(5D)1[4]	123.4445	-4.237	22409.852	0.5	D6S (3P)4P	103417.910	1.5	4F(5D)3[1]
123.0981	-6.679	22810.357	3.5	D6S (3F)4F	104046.350	2.5	4F(5D)0[3]	123.44851	-5.050	22409.852	0.5	D6S (3F)4P	103391.290	1.5	4F(5D)3[12]
123.0991	-4.236	22409.852	0.5	D6S (3P)4P	103645.220	1.5	4F(5D)2[2]	123.4935	-3.452	13904.824	0.5	D7 (5D)4P	94880.740	0.5	4SP(5P)4P
123.1012	-7.241	8391.938	2.5	D6S (5D)4D	89625.940	1.5	4SP(5P)6P	123.5229	-5.567	23031.300	1.5	D6S (3F)4F	103987.990	2.5	4F(5D)1[13]
123.1068	-7.102	21711.917	3.5	D6S (3H)4H	102942.200	3.5	4F(5D)4[3]	123.5399	-5.156	8680.454	1.5	D6S (5D)4D	89625.940	1.5	4SP(5P)6P
123.1129	-3.173	13474.411	2.5	D7 (5D)4P	94700.660	2.5	4P (3F)2D	123.5432	-4.675	22939.358	2.5	D6S (3F)4F	103882.680	3.5	4F(5D)1[4]
123.1183	-3.713	21812.055	1.5	D6S (3P)4P	103034.760	1.5	4F(5D)4[2]	123.5494	-4.550	8391.938	2.5	D6S (5D)4D	89331.195	1.5	5P (5D)6D
123.1306	-2.549	25981.629	3.5	D6S (3G)4G	107196.200	2.5	180DD	123.5541	-4.897	23031.300	1.5	D6S (3F)4F	103967.490	1.5	4SP(3P)2S
123.1337	-6.664	21812.055	1.5	D6S (3P)4P	104022.890	3.5	4F(5D)0[3]	123.5641	-7.390	22939.358	2.5	D6S (3F)4F	103869.020	1.5	4F(5D)1[12]
123.1342	-4.031	21812.055	1.5	D6S (3P)4P	103024.290	2.5	4F(5D)4[2]	123.5723	-2.654	27314.922	3.5	D6S (3F)2F	108239.200	3.5	240DD
123.1365	-3.253	13474.411	2.5	D7 (5D)4P	94685.090	2.5	4SP(5D)6P	123.5813	-6.224	22939.358	2.5	D6S (3F)4F	103857.740	2.5	4F(5D)1[2]
123.1413	-3.002	13673.185	1.5	D7 (5D)4P	94880.740	0.5	4SP(5P)4P	123.5942	-2.651	21430.359	5.5	D6S (3H)4H	102340.350	5.5	4SP(3I)4K
123.1512	-1.840	25805.328	4.5	D6S (3G)4G	107006.350	4.5	4SP(3I)2H	123.6075	-5.119	22810.357	3.5	D6S (3F)4F	103711.570	3.5	4F(5D)2[4]
123.1591	-4.833	21308.040	1.5	D7 (5D)2D	102503.810	1.5	4SP(3D)2D	123.6121	-4.447	7955.299	3.5	D6S (5D)4D	88853.533	3.5	5P (5D)6D
123.1770	-2.790	25981.629	3.5	D6S (3G)4G	107165.600	3.5	170DD	123.6226	-4.446	22810.357	3.5	D6S (3F)4F	103701.720	4.5	4F(5D)2[5]
123.1867	-7.136	22810.357	3.5	D6S (3H)4H	103987.990	2.5	4F(5D)1[3]	123.6276	-6.463	22810.357	3.5	D6S (3F)4F	103698.440	2.5	4F(5D)2[3]
123.1903	-7.136	21711.917	3.5	D6S (3H)4H	102882.370	4.5	4F(5D)4[4]	123.6326	-3.304	25805.328	4.5	D6S (3G)4G	106690.170	5.5	4SP(3I)2H
123.1933	-4.108	7955.299	3.5	D6S (5D)4D	89128.561	3.5	4SP(5P)6P	123.6376	-2.998	25981.629	3.5	D6S (3G)4G	106863.200	3.5	160DD
123.1975	-6.891	21711.917	3.5	D6S (3H)4H	102882.370	4.5	4F(5D)4[4]	123.6474	-4.736	2430.097	3.5	D7 (5D)4F	83305.231	3.5	4P (1F)2G
123.2066	-3.235	30764.485	3.5	D6S (3G)2G	111929.000	2.5	290DD	123.6548	-7.232	22810.357	3.5	D6S (3F)4F	103680.640	4.5	

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
123.6607	-6.125	22810.357	3.5	D6S (3F)4F	124.1074	-4.866	22810.357	3.5	D6S (3F)4F	103385.730	3.5	4F(5D)3[3]
123.6849	-7.209	22810.357	3.5	D6S (3F)4F	124.1131	-3.824	27314.922	3.5	D6S (3F)2F	107886.600	3.5	200DD
123.7046	-5.396	23031.300	1.5	D6S (3F)4F	124.1138	-3.8629	27620.412	2.5	D6S (3F)2F	108191.600	1.5	230DD
123.7070	-4.002	26170.181	5.5	D6S (3H)2H	124.1233	-6.627	23317.633	2.5	D5S2(7S)6S	103882.680	3.5	4F(5D)1[4]
123.7098	-3.160	13904.824	0.5	D7 (5D)4F	124.1241	-4.291	31364.440	1.5	D6S (3D)4D	111929.000	2.5	290DD
123.7219	-4.813	23031.300	1.5	D6S (3F)4F	124.1396	-6.252	22810.357	3.5	D6S (3F)4F	103364.840	2.5	4F(5D)3[3]
123.7298	-4.181	27314.922	3.5	D6S (3F)2F	124.1444	-6.932	23317.633	2.5	D5S2(7S)6S	103869.020	1.5	4F(5D)1[2]
123.7427	-4.081	26352.766	4.5	D6S (3H)2H	124.1519	-3.622	22637.205	4.5	D6S (3F)4F	103183.700	3.5	4F(5D)3[5]
123.7505	-4.120	26055.423	2.5	D6S (3G)4G	124.1583	-4.108	22810.357	3.5	D6S (3F)4F	103352.680	4.5	4F(5D)3[5]
123.7763	-4.955	8680.454	1.5	D6S (5D)4D	124.1603	-3.730	31387.948	2.5	D6S (3D)4D	111929.000	2.5	290DD
123.7885	-4.496	22637.205	4.5	D6S (3F)4F	124.1617	-7.353	23317.633	1.5	D7 (5D)4F	94211.739	2.5	4F(5F)4F
123.7943	-6.100	8846.768	0.5	D6S (3F)4F	124.1641	-3.035	13673.185	1.5	D7 (5D)4F	94211.739	2.5	4F(5F)4F
123.8050	-4.667	22939.358	2.5	D6S (3F)4F	124.1769	-6.279	22810.357	3.5	D6S (3F)4F	103340.640	3.5	4F(5D)3[4]
123.8113	-4.077	7955.299	3.5	D6S (5D)4D	124.1870	-5.610	22810.357	3.5	D6S (3F)4F	103334.100	2.5	48P(3D)2F
123.8175	-6.516	8680.454	1.5	D6S (5D)4D	124.1928	-6.676	26170.181	5.5	D6S (3H)2H	106369.170	5.5	48P(3I)2H
123.8231	-6.818	22939.358	2.5	D6S (3F)4F	124.1988	-6.340	22810.357	3.5	D6S (3H)2F	103326.410	4.5	4F(5D)3[4]
123.8257	-1.200	21581.638	4.5	D6S (3H)4H	124.2024	-6.605	13474.411	2.5	D7 (5D)4F	93988.170	2.5	48P(5G)4G
123.8324	-2.876	25428.784	5.5	D6S (3G)4G	124.2035	-5.427	13474.411	2.5	D7 (5D)4F	93988.170	2.5	48P(5G)4G
123.8338	-2.937	27620.412	2.5	D6S (3F)2F	124.2046	-2.905	15844.650	4.5	D7 (5D)4G	96356.960	3.5	48P(5D)6D
123.8375	-4.009	3117.461	1.5	D7 (5D)4F	124.2075	-3.633	26352.766	4.5	D6S (3H)2H	106863.200	3.5	160DD
123.8413	-6.364	22637.205	4.5	D6S (3F)4F	124.2079	-2.349	27620.412	2.5	D6S (3F)2F	108130.600	2.5	220DD
123.8493	-2.129	20830.582	2.5	D6S (3P)4F	124.2476	-6.546	8846.768	0.5	D6S (5D)4D	89331.915	1.5	5P (5D)6D
123.8583	-4.772	22939.358	2.5	D6S (3F)4F	124.2567	-5.501	22939.358	2.5	D6S (3F)4F	103417.190	1.5	4F(5D)3[1]
123.8584	-3.061	13474.411	2.5	D7 (5D)4F	124.2741	-4.120	2837.950	2.5	D7 (5D)4F	83305.251	3.5	4P (1F)2G
123.8587	-3.589	21711.917	3.5	D6S (3H)4H	124.2747	-4.645	22939.358	2.5	D6S (3F)4F	103406.250	2.5	4F(5D)3[2]
123.8595	-6.293	8591.938	2.5	D6S (5D)4D	124.2829	-5.408	8391.938	2.5	D6S (5D)4D	88853.533	3.5	5P (5D)6D
123.8707	-7.238	22939.358	2.5	D6S (3F)4F	124.2978	-8.285	22939.358	2.5	D6S (3F)4F	103391.290	1.5	4F(5D)3[2]
123.8717	-6.408	23317.633	2.5	D5S2(7S)6S	124.3064	-4.260	22939.358	2.5	D6S (3F)4F	103385.730	3.5	4F(5D)3[3]
123.8735	-4.953	8919.457	2.5	D6S (5D)4D	124.3073	-4.761	23483.176	3.5	D6S (3D)4D	111929.000	2.5	290DD
123.8825	-5.239	22939.358	2.5	D6S (3F)4F	124.3178	-6.578	8680.454	1.5	D6S (3D)4D	89119.457	2.5	5P (5D)6D
123.8920	-5.094	22409.852	0.5	D6S (3P)4F	124.3387	-6.411	22939.358	2.5	D6S (3F)4F	103364.840	2.5	4F(5D)3[3]
123.8920	-5.591	22637.205	4.5	D6S (3F)4F	124.3634	-5.762	18360.646	1.5	D7 (5D)2F	98770.140	1.5	48P(5D)4D
123.9067	-6.043	22939.358	2.5	D6S (3F)4F	124.3689	-6.097	23031.300	1.5	D6S (3F)4F	103437.280	0.5	4F(5D)3[1]
123.9077	-6.673	23317.633	2.5	D5S2(7S)6S	124.3761	-5.633	22939.358	2.5	D6S (3F)4F	103340.640	3.5	4F(5D)3[4]
123.9105	-5.826	22637.205	4.5	D6S (3F)4F	124.3862	-4.703	22939.358	2.5	D6S (3F)4F	103334.100	2.5	48P(3D)2F
123.9143	-5.119	22409.852	0.5	D6S (3P)4F	124.3865	-3.961	15844.650	4.5	D7 (5D)2G	96239.200	4.5	48P(3G)2H
123.9284	-3.448	21812.055	1.5	D6S (3P)4F	124.3875	-5.641	23317.633	2.5	D5S2(7S)6S	103711.570	3.5	4F(5D)3[4]
123.9323	-5.081	22637.205	4.5	D6S (3F)4F	124.3986	-7.728	23031.300	1.5	D6S (3F)4F	103418.080	0.5	4F(5D)3[0]
123.9330	-5.060	22637.205	4.5	D6S (3F)4F	124.3988	-5.051	23031.300	1.5	D6S (3F)4F	103417.910	1.5	4F(5D)3[1]
123.9614	-7.140	23317.633	2.5	D5S2(7S)6S	124.4078	-6.326	23317.633	2.5	D5S2(7S)6S	103698.440	2.5	4F(5D)2[3]
123.9662	-4.223	23031.300	1.5	D6S (3F)4F	124.4169	-4.844	23031.300	1.5	D6S (3F)4F	103406.250	2.5	4F(5D)3[2]
123.9784	-5.120	7955.299	3.5	D6S (5D)4D	124.4194	-5.113	22810.357	3.5	D6S (3F)4F	103183.700	3.5	48P(3D)2F
123.9871	-0.732	26352.766	4.5	D6S (3H)2H	124.4202	-4.614	15844.650	4.5	D7 (5D)2G	96217.420	3.5	48P(5F)4F
123.9893	-7.502	23317.633	2.5	D5S2(7S)6S	124.4308	-3.423	13474.411	2.5	D7 (5D)4F	93840.340	1.5	48P(5D)6D
123.9914	-7.675	8680.454	1.5	D6S (3D)4D	124.4400	-6.050	23031.300	1.5	D6S (3F)4F	103391.290	1.5	4F(5D)3[2]
123.9929	-3.453	27314.922	3.5	D6S (3F)2F	124.4413	-6.713	23317.633	2.5	D5S2(7S)6S	103676.780	3.5	4F(5D)2[3]
123.9971	-5.063	18360.646	1.5	D7 (5D)2P	124.4428	-3.629	13673.185	1.5	D7 (5D)4F	94031.378	0.5	48P(5D)6D
124.0004	-6.183	23031.300	1.5	D6S (3F)4F	124.4453	-5.128	13474.411	2.5	D7 (5D)4F	93830.979	2.5	48P(5D)6D
124.0120	-5.348	23031.300	1.5	D6S (3F)4F	124.4539	-8.534	23317.633	2.5	D5S2(7S)6S	103668.990	1.5	4F(5D)2[1]
124.0125	-4.237	21812.055	1.5	D6S (3P)4F	124.4658	-6.432	23317.633	2.5	D5S2(7S)6S	103660.980	2.5	4F(5D)2[2]
124.0238	-5.157	23031.300	1.5	D6S (3F)4F	124.4662	-2.961	22637.205	4.5	D6S (3F)4F	102980.300	5.5	48P(3I)4I
124.0311	-5.170	22409.852	0.5	D6S (3P)4F	124.4750	-1.321	26352.766	4.5	D6S (3H)2H	106690.170	5.5	48P(3I)2H
124.0316	-5.575	8946.768	0.5	D6S (5D)4D	124.4810	-5.871	23031.300	1.5	D6S (3F)4F	103364.840	2.5	4F(5D)3[3]
124.0406	-3.978	27620.412	2.5	D6S (3F)2F	124.4902	-6.802	23317.633	2.5	D5S2(7S)6S	103645.220	1.5	4F(5D)2[2]
124.0481	-5.590	23031.300	1.5	D6S (3F)4F	124.4973	-4.119	8680.454	1.5	D6S (5D)4D	89003.460	0.5	4P (3F)2S
124.0713	-5.893	13474.411	2.5	D7 (5D)4F	124.5098	-6.038	13673.185	1.5	D7 (5D)4F	93988.170	2.5	48P(5G)4G
124.0758	-5.967	22810.357	3.5	D6S (3F)4F	124.5108	-4.569	22637.205	4.5	D6S (3F)4F	102951.500	4.5	48P(3I)4I
					124.5253	-5.332	22637.205	4.5	D6S (3F)4F	102942.200	3.5	4F(5D)4[3]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
124.5287	-4.456	23031.300	1.5	D6S (3F)4F	103334.100	2.5	48P(3D)2F	125.2037	-3.184	16369.360	3.5	D7 (5D)2G	96239.200	4.5	4SP(3G)2H
124.5855	-5.654	27620.412	2.5	D6S (3F)2F	107886.600	3.5	200DD	125.2096	-6.808	23317.633	2.5	D5S2(7S)6S	103183.700	3.5	4SP(3D)2F
124.5860	-5.125	21308.040	1.5	D7 (5D)2D	101573.900	1.5	48P(5D)4P	125.2284	-4.706	13474.411	2.5	D7 (5D)4F	93328.480	1.5	4F (3F)4F
124.6010	-3.809	22637.205	4.5	D6S (3F)4F	102893.380	5.5	4F(5D)4[6]	125.2338	-3.361	27314.922	3.5	D6S (3F)2F	107165.600	3.5	170DD
124.6041	-5.157	7955.299	3.5	D6S (5D)4D	88209.450	3.5	48P(5P)6D	125.2379	-6.094	16369.360	3.5	D7 (5D)2G	96217.420	3.5	4SP(5P)4D
124.6107	-5.365	22637.205	4.5	D6S (3F)4F	102887.120	3.5	4F(5D)4[4]	125.2578	-4.919	18360.646	1.5	D7 (5D)2P	98196.000	1.5	4SP(5D)4F
124.6181	-4.375	22637.205	4.5	D6S (3F)4F	102882.370	4.5	4F(5D)4[2]	125.2858	-5.152	8391.938	2.5	D6S (5D)4D	88209.450	3.5	4SP(5P)6D
124.6194	-4.321	22939.358	2.5	D6S (3F)4F	103183.700	3.5	48P(3D)2F	125.3240	-6.495	23317.633	2.5	D5S2(7S)6S	103110.790	1.5	4F(5D)4[1]
124.6612	-3.114	15844.650	4.5	D7 (5D)2G	96062.060	5.5	48P(3G)2H	125.3732	-2.018	21812.055	1.5	D6S (3P)4F	101573.900	1.5	4SP(5D)4P
124.6663	-4.808	22637.205	4.5	D6S (3F)4F	102851.360	4.5	4F(5D)4[5]	125.4356	-2.367	13673.185	1.5	D7 (5D)4F	93393.360	2.5	4F (3F)4F
124.6666	-5.330	22810.357	3.5	D6S (3F)4F	103024.290	2.5	4F(5D)4[2]	125.4436	-6.442	23317.633	2.5	D5S2(7S)6S	103034.760	1.5	4F(5D)4[2]
124.6974	-6.596	22637.205	4.5	D6S (3F)4F	102831.320	5.5	4F(5D)4[5]	125.4600	-6.170	23317.633	2.5	D5S2(7S)6S	103024.290	2.5	4F(5D)4[2]
124.7327	-5.703	22939.358	2.5	D6S (3F)4F	103110.790	1.5	4F(5D)4[1]	125.4656	-3.631	22637.205	4.5	D6S (3F)4F	102340.300	5.5	4SP(3I)4K
124.7399	-4.251	13673.185	1.5	D7 (5D)4P	93840.340	1.5	48P(5D)6D	125.4840	-2.673	27314.922	3.5	D6S (3F)2F	107006.350	4.5	4SP(3I)2H
124.7534	-4.454	13673.185	1.5	D7 (5D)4P	93830.979	2.5	48P(5D)6D	125.5218	-4.870	8391.938	2.5	D6S (5D)4D	88059.380	2.5	4SP(5P)6D
124.7556	-4.166	8846.768	0.5	D6S (5D)4D	89003.460	0.5	4P (3P)2S	125.5406	-1.068	13474.411	2.5	D7 (5D)4P	93129.900	3.5	4P (3F)4D
124.7747	-4.585	18360.646	1.5	D7 (5D)2P	98505.100	2.5	48P(5D)4P	125.5409	-3.323	13673.185	1.5	D7 (5D)4P	93328.480	1.5	4P (3F)4F
124.7789	-5.355	22810.357	3.5	D6S (3F)4F	102952.120	2.5	4F(5D)4[3]	125.5670	-3.518	22810.357	3.5	D6S (3F)4F	102449.100	2.5	4SP(3D)2D
124.7799	-3.110	22810.357	3.5	D6S (3F)4F	102951.500	4.5	48P(3I)4I	125.5737	-6.113	23317.633	2.5	D5S2(7S)6S	102952.120	2.5	4F(5D)4[3]
124.7943	-4.742	22810.357	3.5	D6S (3F)4F	102942.200	3.5	4F(5D)4[3]	125.5866	-5.903	16369.360	3.5	D7 (5D)2G	95995.600	3.5	4F(5D)4[3]
124.8026	-4.316	13904.824	0.5	D7 (5D)4P	94031.378	0.5	48P(5D)6D	125.6011	-5.358	7955.299	3.5	D6S (5D)4D	87572.431	2.5	4SP(5G)6F
124.8113	-6.614	18886.780	0.5	D7 (5D)2P	99007.700	0.5	48P(5D)4D	125.6434	-1.675	21812.055	1.5	D6S (3P)4F	101402.380	0.5	4SP(5D)4P
124.8172	-4.233	31811.822	2.5	D7 (5D)2F	111929.900	2.5	290DD	125.6560	-4.152	7955.299	3.5	D6S (5D)4D	87537.652	3.5	4SP(5G)6F
124.8376	-4.164	7955.299	3.5	D6S (5D)4D	88059.380	2.5	48P(3P)6D	125.6664	-3.407	27620.412	2.5	D6S (3F)2F	107196.200	2.5	180DD
124.8435	-7.024	23317.633	2.5	D5S2(7S)6S	103417.910	1.5	4F(5D)3[1]	125.6712	-4.470	8391.938	2.5	D6S (5D)4D	87964.650	1.5	4SP(3P)6D
124.8511	-5.700	22939.358	2.5	D6S (3F)4F	103034.760	1.5	4F(5D)4[2]	125.6759	-3.076	20830.582	2.5	D6S (3P)4F	100400.360	2.5	4SP(3P)2D
124.8528	-6.383	23031.300	1.5	D6S (3F)4F	103125.650	0.5	4F(5D)4[1]	125.6763	-6.154	23317.633	2.5	D5S2(7S)6S	102887.120	3.5	4F(5D)4[4]
124.8528	-6.444	21308.040	1.5	D7 (5D)2D	101402.380	0.5	48P(5D)4P	125.6843	-5.498	22939.358	2.5	D6S (3F)4F	102503.810	1.5	4SP(3D)2D
124.8534	-4.871	22409.852	0.5	D6S (3P)4P	102503.810	1.5	48P(3D)2D	125.7098	-3.528	27314.922	3.5	D6S (3F)2F	106863.200	3.5	160DD
124.8617	-6.091	23317.633	2.5	D5S2(7S)6S	103404.250	2.5	4F(5D)3[2]	125.7147	-4.685	27620.412	2.5	D6S (3F)2F	106863.200	3.5	160DD
124.8674	-5.084	22939.358	2.5	D6S (3F)4F	103024.290	2.5	4F(5D)4[2]	125.7601	-3.564	7955.299	3.5	D6S (5D)4D	87471.765	4.5	4SP(5G)6F
124.8802	-4.778	22810.357	3.5	D6S (3F)4F	103110.790	1.5	4F(5D)4[1]	125.7708	-4.107	22939.358	2.5	D6S (3F)4F	102449.100	2.5	4SP(3I)4H
124.8850	-6.472	23317.633	2.5	D5S2(7S)6S	102887.120	3.5	4F(5D)4[4]	125.7719	-2.844	25428.784	5.5	D6S (3G)4G	104937.800	4.5	4SP(3I)4H
124.8876	-4.531	22810.357	3.5	D6S (3F)4F	103391.270	1.5	4F(5D)3[2]	125.7829	-3.547	23031.300	1.5	D6S (3F)4F	102503.810	1.5	4SP(3D)2D
124.8937	-5.801	23317.633	2.5	D5S2(7S)6S	103385.730	3.5	4F(5D)3[3]	125.8629	-4.706	18886.780	0.5	D7 (5D)2P	98338.280	1.5	4SP(5P)4S
124.9263	-6.132	23317.633	2.5	D5S2(7S)6S	103364.840	2.5	4F(5D)3[3]	125.9053	-1.134	13474.411	2.5	D7 (5D)4P	92899.200	2.5	4P (3F)4D
124.9360	-4.992	22810.357	3.5	D6S (3F)4F	102851.360	4.5	4F(5D)4[5]	125.9071	-3.492	13904.824	0.5	D7 (5D)4F	93328.480	1.5	4P (3F)4F
124.9641	-6.149	23317.633	2.5	D5S2(7S)6S	103340.640	3.5	4F(5D)3[4]	125.9164	-4.693	23031.300	1.5	D6S (3F)4F	102449.100	2.5	4SP(3D)2D
124.9743	-7.786	23317.633	2.5	D5S2(7S)6S	103334.620	3.5	48P(3D)2F	125.9179	-1.179	25428.784	5.5	D6S (3F)2F	99757.120	4.5	4P (1G)2G
124.9793	-1.444	13474.411	2.5	D7 (5D)4P	93487.650	3.5	48P(5D)4F	125.9636	-1.398	25428.784	5.5	D6S (3G)4G	104816.800	5.5	4SP(3I)4H
124.9798	-1.444	13474.411	2.5	D7 (5D)4P	93487.650	3.5	48P(5D)4F	125.9780	-4.457	8680.454	1.5	D6S (5D)4D	88059.380	2.5	4SP(5P)6D
124.9946	-6.120	26170.181	5.5	D6S (3R)2H	106183.100	6.5	48P(3I)2K	126.0533	-0.501	0.000	4.5	D6S (5D)6D	79331.500	3.5	4SP(5S)6P
124.9801	-5.254	22939.358	2.5	D6S (3F)4F	102952.120	2.5	4F(5D)4[3]	126.0829	-0.473	20340.300	5.5	D7 (5D)2H	99653.220	4.5	4SP(3G)2G
124.9946	-6.120	23031.300	1.5	D6S (3F)4F	103034.760	1.5	4F(5D)4[2]	126.0887	-4.758	18886.780	0.5	D7 (5D)2P	98196.000	1.5	4SP(5D)4F
124.9956	-5.397	22939.358	2.5	D6S (3F)4F	102942.200	3.5	4F(5D)4[3]	126.1170	-2.621	20516.960	2.5	D7 (5D)2D	99808.400	3.5	4P (1G)2G
125.0094	-5.706	18360.646	1.5	D7 (5D)2P	98354.660	2.5	48P(5D)4F	126.1285	-5.150	8680.454	1.5	D6S (5D)4D	87964.650	1.5	4SP(5P)6D
125.0110	-6.429	23031.300	1.5	D6S (3F)4F	103024.290	2.5	4F(5D)4[2]	126.1845	-0.501	0.000	4.5	D6S (5D)6D	79331.500	3.5	4SP(5S)6P
125.0194	-4.865	16369.360	3.5	D7 (5D)2G	96356.960	3.5	48P(3G)2F	126.1944	-5.890	27620.412	2.5	D6S (3F)2F	106863.200	3.5	160DD
125.0350	-4.916	18360.646	1.5	D7 (5D)2P	98338.280	1.5	48P(3P)4S	126.2069	-1.945	15844.650	4.5	D7 (5D)2G	95079.640	3.5	4P (3F)2F
125.0817	-5.478	22939.358	2.5	D6S (3F)4F	102887.120	3.5	4F(5D)4[4]	126.2141	-0.234	25428.784	5.5	D6S (3G)4G	104659.260	6.5	4P (3F)4D
125.1008	-5.957	13904.824	0.5	D7 (5D)4P	93840.340	1.5	48P(5D)6D	126.2152	-1.605	13673.185	1.5	D7 (5D)4D	92899.200	2.5	4F (3F)4D
125.1095	-4.352	31999.048	3.5	D7 (5D)2F	111929.900	2.5	290DD	126.2255	-2.915	25805.328	4.5	D6S (3G)4G	105028.600	3.5	4SP(3I)4H
125.1236	-2.482	13474.411	2.5	D7 (5D)4P	93395.360	2.5	4P (3F)4F	126.2292	-3.329	13474.411	2.5	D7 (5D)4F	92695.374	2.5	4P (3F)2D
125.1238	-6.566	23031.300	1.5	D6S (3F)4F	102952.120	2.5	4F(5D)4[3]	126.2345	-4.805	8680.454	1.5	D6S (5D)4D	87964.650	1.5	4SP(5G)6F
125.1406	-3.094	16369.360	3.5	D7 (5D)2G	96279.490	2.5	48P(3G)2F	126.2462	-5.109	8391.938	2.5	D6S (5D)4D	87600.250	1.5	4SP(5G)6F
125.1825	-2.921	20516.960	2.5	D7 (5D)2D	100400.360	2.5	48P(3P)2D	126.2847	-6.876	23317.633	2.5	D5S2(7S)6S	102503.810	1.5	4SP(3D)2D
125.1825	-6.926	18886.780	0.5	D7 (5D)2P	98770.140	1.5	48P(5D)4D	126.2937	-4.034	8391.938	2.5	D6S (5D)4D	87572.431	2.5	4SP(5G)6F
125.1858	-3.100	27314.922	3.5	D6S (3F)2F	107196.200	2.5	180DD	126.3055	-2.205	13474.411	2.5	D7 (5D)4P	92647.510	1.5	4P (3F)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
126.3200	-1.849	22409.852	0.5	D6S (3P)4P	101573.900	1.5	4SP(5D)4P	127.2454	-2.935	21812.055	1.5	D6S (3P)4P
126.3492	-3.751	8391.938	2.5	D6S (5D)4D	87537.652	3.5	4SP(5G)6F	127.2507	-2.405	26352.766	4.5	D6S (3H)2H
126.3704	-1.291	25805.328	4.5	D6S (3G)4G	104937.800	4.5	4SP(3I)4H	127.2613	-1.182	667.683	2.5	D6S (5D)6D
126.3720	-5.712	23317.633	2.5	D5S2(7S)6S	102449.100	2.5	4SP(3D)2D	127.2655	-6.345	667.683	2.5	D6S (5D)6D
126.3770	-3.024	13474.411	2.5	D7 (5D)4F	92602.703	3.5	4P (3F)2F	127.3036	-2.050	13673.185	1.5	D7 (5D)4F
126.3926	-2.235	20516.960	2.5	D7 (5D)2D	99635.520	3.5	4SP(3G)2G	127.3097	-1.452	13904.824	0.5	D7 (5D)4F
126.4345	-4.645	8846.768	0.5	D6S (5D)4D	87964.650	1.5	4SP(5P)6D	127.3167	-5.162	13474.411	2.5	D7 (5D)4F
126.5001	-4.900	8846.768	0.5	D6S (5D)4D	100400.360	2.5	4SP(3P)2D	127.3186	-2.758	13673.185	1.5	D7 (5D)4F
126.5071	-1.411	25981.629	3.5	D6S (3G)4G	87898.120	0.5	4SP(5G)6F	127.3194	-3.871	23031.300	1.5	D6S (3F)4F
126.5467	-2.341	13673.185	1.5	D7 (5D)4F	92695.374	2.5	4P (3P)2D	127.3274	-5.191	8391.938	2.5	D6S (5D)4D
126.5639	-0.315	25805.328	4.5	D6S (3G)4G	104816.800	5.5	4SP(3I)4H	127.3592	-5.167	30388.542	4.5	D6S (3G)2G
126.5781	-0.945	20805.770	4.5	D7 (5D)2H	99808.400	3.5	4P (1G)2G	127.4063	-1.267	26170.181	5.5	D6S (3H)2H
126.5943	-2.500	22409.852	0.5	D6S (3P)4P	101402.380	0.5	4SP(5D)4P	127.4203	-4.802	30388.542	4.5	D6S (3G)2G
126.6178	-5.116	20830.582	2.5	D6S (3P)4P	99808.400	3.5	4P (1G)2G	127.4469	-1.970	26352.766	4.5	D6S (3H)2H
126.6234	-4.808	7955.299	3.5	D6S (5D)4D	86929.649	3.5	4P (3P)4D	127.4636	-3.473	13904.824	0.5	D7 (5D)4F
126.6253	-0.451	26055.423	2.5	D6S (3G)4G	105028.600	3.5	4SP(3I)4H	127.4835	-4.917	13474.411	2.5	D7 (5D)4F
126.6374	-4.254	18360.646	1.5	D7 (5D)2P	97326.270	1.5	4SP(3P)2P	127.5059	-2.368	33501.253	3.5	D6S (1G)2G
126.6525	-0.395	25981.629	3.5	D6S (3G)4G	104937.800	4.5	4SP(3I)4H	127.5144	-1.377	862.613	1.5	D6S (5D)6D
126.6537	-5.025	8680.454	1.5	D6S (5D)4D	87635.920	0.5	4SP(5P)6D	127.5172	-3.478	30388.542	4.5	D6S (3G)2G
126.6603	-3.266	384.790	3.5	D6S (5D)6D	97331.500	3.5	4SP(5G)6F	127.5322	-3.040	31364.440	1.5	D6S (3D)4D
126.6677	-1.030	384.790	3.5	D6S (5D)4D	87602.250	1.5	4SP(5G)6F	127.5349	-2.431	13904.824	0.5	D7 (5D)4F
126.7077	-4.227	8680.454	1.5	D6S (5D)4D	94763.219	3.5	4SP(5D)6P	127.5610	-8.256	16369.360	3.5	D7 (3D)2G
126.7129	-6.640	15844.650	4.5	D7 (5D)2G	79285.110	2.5	4SP(5S)6P	127.5640	-3.071	31387.948	2.5	D6S (5D)6D
126.7422	-0.762	384.790	3.5	D6S (5D)6D	87572.431	2.5	4SP(5G)6F	127.5778	-0.999	862.613	1.5	D6S (5D)6D
126.7556	-4.287	8680.454	1.5	D6S (5D)4D	87572.431	2.5	4SP(5G)6F	127.5778	-0.999	862.613	1.5	D6S (5D)6D
126.7592	-2.971	13474.411	2.5	D7 (5D)4F	92358.610	1.5	4SP(5G)4F	127.5807	-1.529	20516.960	2.5	D7 (5D)2D
126.7681	-2.251	30388.542	4.5	D6S (3G)2G	109271.710	5.5	4SP(3I)2I	127.5820	-6.042	862.613	1.5	D6S (5D)6D
126.7698	-2.251	30388.542	4.5	D6S (3G)2G	92329.890	2.5	4SP(3G)2G	127.5907	-5.376	8391.938	2.5	D6S (5D)6D
126.8143	-1.792	13474.411	2.5	D7 (5D)4F	99653.220	4.5	4SP(5G)4F	127.5981	-3.787	23031.300	1.5	D6S (3F)4F
126.8272	-2.989	20805.770	4.5	D7 (5D)4F	92329.890	2.5	4SP(3G)2G	127.5981	-3.787	23031.300	1.5	D6S (3F)4F
126.8557	-0.774	20805.770	4.5	D7 (5D)2H	99635.520	3.5	4SP(3G)2G	127.6014	-3.190	13474.411	2.5	D7 (5D)4F
126.8838	-4.731	7955.299	3.5	D6S (5D)4D	86767.577	2.5	4P (3P)4D	127.6397	-4.934	13673.185	1.5	D7 (5D)2H
126.8906	-2.826	13474.411	2.5	D7 (5D)4F	92282.460	3.5	4SP(5G)4F	127.6402	-5.349	15844.650	4.5	D7 (5D)2G
126.8956	-4.506	20830.582	2.5	D6S (3P)4P	99635.520	3.5	4SP(3G)2G	127.6629	-5.996	16369.360	3.5	D7 (3D)2G
126.9040	-1.700	13474.411	2.5	D7 (5D)4F	92274.120	2.5	4P (3P)4P	127.6703	-3.370	21430.359	5.5	D6S (3H)4H
126.9210	-4.642	8846.768	0.5	D6S (5D)4D	87635.920	0.5	4SP(5P)6D	127.6801	-1.128	13904.824	0.5	D7 (5D)4F
126.9353	-1.993	13673.185	1.5	D7 (5D)4F	92453.460	0.5	4P (3F)4D	127.6883	-5.684	16369.360	3.5	D7 (5D)2G
126.9557	-3.680	26170.181	5.5	D6S (3H)2H	104937.800	4.5	4SP(3I)4H	127.6952	-3.192	13904.824	0.5	D7 (5D)4P
126.9753	-5.395	8846.768	0.5	D6S (5D)4D	86767.577	2.5	4P (3F)4D	127.7040	-4.939	384.790	3.5	D6S (5D)6D
126.9823	-2.215	13474.411	2.5	D7 (5D)4F	92225.538	1.5	5P (5D)4P	127.7076	-6.700	15844.650	4.5	D7 (5D)2G
126.9959	-1.828	13904.824	0.5	D7 (5D)4F	92647.510	1.5	4P (3F)4D	127.7643	-1.141	977.053	0.5	D6S (5D)6D
126.9972	-4.758	13474.411	2.5	D7 (5D)4F	92216.320	1.5	4P (3P)2D	127.7685	-6.120	977.053	0.5	D6S (5D)6D
127.0482	-3.447	16369.360	3.5	D7 (5D)2G	95079.640	3.5	4P (3F)2F	127.7812	-5.092	25787.598	1.5	D6S (3P)2P
127.0835	-4.002	21711.917	3.5	D6S (3H)4H	100400.360	2.5	4SP(3P)2D	127.7852	-2.968	20340.300	5.5	D7 (5D)2H
127.0883	-2.288	13673.185	1.5	D7 (5D)4F	92358.610	1.5	4SP(5G)4F	127.7853	-4.793	23317.633	2.5	D5S2(7S)6S
127.0975	-5.019	13474.411	2.5	D7 (5D)4F	92154.165	3.5	4SP(5D)6F	127.7903	-4.624	20316.960	2.5	D7 (3D)2D
127.1024	-2.141	16369.360	3.5	D7 (5D)2G	95046.100	2.5	4P (3F)2F	127.8073	-4.344	13673.185	1.5	D7 (5D)4P
127.1038	-4.431	26352.766	4.5	D6S (3H)2H	105028.600	3.5	4SP(3I)4H	127.8077	-3.622	30388.542	4.5	D6S (3G)2G
127.1232	-1.800	667.683	2.5	D6S (5D)6D	79331.500	3.5	4SP(5S)6P	127.8305	-4.208	15844.650	4.5	D7 (5D)2G
127.1347	-2.070	13673.185	1.5	D7 (5D)4F	93329.890	2.5	4SP(5G)4F	127.8335	-3.754	21581.638	4.5	D6S (1G)2G
127.1512	-2.403	13673.185	1.5	D7 (5D)4F	104816.800	5.5	4SP(5I)4H	127.8399	-4.162	21430.359	5.5	D6S (3H)4H
127.1592	-2.403	22939.358	2.5	D6S (3F)4F	92134.758	0.5	5P (5D)4P	127.8485	-9.226	25805.328	4.5	D6S (3G)4G
127.1706	-3.046	127.1983	-0.899	101573.900	1.5	4SP(5D)4P	127.8558	-8.218	15844.650	4.5	D7 (5D)2G	
127.1793	-0.899	667.683	2.5	D6S (5D)6D	79285.110	2.5	4SP(5S)6P	127.8767	-6.221	25787.598	1.5	D6S (3P)2P
127.2024	-5.503	13474.411	2.5	D7 (5D)4F	92089.260	3.5	4SP(5G)4H	127.9066	-3.416	30388.542	4.5	D6S (3G)2G
127.2249	-1.099	13673.185	1.5	D7 (5D)4F	92274.120	2.5	4P (3P)4P	127.9101	-0.628	25787.598	1.5	D6S (3P)2P
127.2391	-5.869	7955.299	3.5	D6S (5D)4D	86547.490	2.5	4P (1F)2F	127.9140	-4.376	13673.185	1.5	D7 (5D)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
127.9173	-4.398	15781.638	4.5	D6S (3H)4H	99757.120	4.5	4P (1G)2G	128.4168	-8.247	25805.328	4.5	D6S (3G)4G	103676.780	3.5	4F(5D)2[3]
127.9258	-3.485	13673.185	5.5	D7 (5D)4F	91843.470	1.5	5P (5D)6P	128.4240	-5.353	8680.454	1.5	D6S (5D)4D	86547.490	2.5	4P (1F)2F
127.9300	-5.346	8391.938	2.5	D6S (5D)4D	86547.490	2.5	4P (1F)2F	128.4248	-4.416	30764.485	3.5	D6S (3G)2G	108631.090	3.5	4SP(3G)4G
127.9357	-4.814	8391.938	2.5	D6S (5D)4D	86543.974	1.5	4P (3P)4D	128.4276	-8.574	977.405	0.5	D6S (5D)6D	78841.960	0.5	4P (1D)2P
127.9708	-6.037	15844.650	4.5	D7 (5D)2G	93987.457	3.5	4SP(5D)6D	128.4278	-3.663	30764.485	3.5	D6S (3G)2G	108629.250	2.5	4SP(3G)4G
127.9719	-3.600	30764.485	3.5	D6S (3G)2G	108906.640	3.5	4SP(3G)4H	128.4298	-5.439	8680.454	1.5	D6S (5D)4D	86543.974	1.5	4P (3P)4D
127.9797	-6.568	0.000	4.5	D6S (5D)6D	78137.364	3.5	4P (1G)2F	128.4396	-7.428	25787.598	1.5	D6S (3G)2P	103645.220	1.5	4F(5D)2[2]
128.0036	-3.580	30764.485	3.5	D6S (3G)2G	91575.139	2.5	5P (5D)6P	128.4467	-5.719	16369.360	3.5	D7 (5D)2G	94211.739	2.5	4SP(5P)4P
128.0398	-5.545	13474.411	2.5	D7 (5D)4F	99808.400	3.5	4P (1G)2G	128.4474	-4.527	20516.960	2.5	D7 (5D)2D	98354.660	2.5	4SP(5D)4F
128.0467	-4.084	21711.917	3.5	D6S (3H)4H	99808.400	3.5	4P (1G)2G	128.4481	-5.491	862.613	1.5	D6S (5D)6D	78690.846	2.5	4P (1D)2D
128.0486	-2.782	20388.542	4.5	D6S (3G)2G	108483.870	5.5	4SP(3G)4G	128.4489	-6.581	26055.423	2.5	D6S (3G)4G	103882.680	3.5	4F(5D)1[4]
128.0525	-1.111	20805.770	4.5	D7 (5D)2H	98898.710	3.5	4P (1F)2F	128.4497	-3.426	20516.960	2.5	D7 (5D)2D	98338.280	1.5	4SP(5P)4S
128.0560	-4.750	8391.938	2.5	D6S (5D)4D	86482.750	3.5	4P (1F)2F	128.4499	-5.892	20805.770	4.5	D7 (5D)2H	98596.650	4.5	4SP(5D)4F
128.0621	-5.277	8680.454	1.5	D6S (5D)4D	86767.577	2.5	4P (3P)4D	128.4502	-7.821	667.683	2.5	D6S (5D)6D	78487.153	1.5	4P (1D)2D
128.0714	-6.231	25787.598	1.5	D6S (3P)2P	103869.020	1.5	4F(5D)1[2]	128.4511	-2.954	20516.960	2.5	D6S (3G)2P	108239.220	3.5	2400D
128.0781	-9.807	25805.328	4.5	D6S (3G)4G	103882.680	3.5	4F(5D)1[4]	128.4511	-2.954	20516.960	2.5	D6S (3G)2P	108239.220	3.5	2400D
128.0876	-5.733	21581.638	4.5	D6S (3H)4H	99653.220	4.5	4SP(3G)2G	128.4511	-2.954	20516.960	2.5	D6S (3G)2P	108239.220	3.5	2400D
128.0899	-6.162	25787.598	1.5	D6S (3P)2P	103857.740	2.5	4F(5D)1[2]	128.4511	-2.954	20516.960	2.5	D6S (3G)2P	108239.220	3.5	2400D
128.0924	-8.998	20830.582	2.5	D6S (3P)4P	98898.710	3.5	4P (1G)2F	128.4512	-9.274	26055.423	2.5	D6S (3G)4G	103869.020	1.5	4F(5D)1[2]
128.0932	-3.516	25981.629	3.5	D6S (3G)4G	104046.350	2.5	4F(5D)0[3]	128.4527	-3.262	30764.485	3.5	D6S (3G)2G	108570.560	4.5	4SP(3G)4G
128.0988	-8.315	25981.629	3.5	D6S (3G)4G	99635.520	3.5	4SP(3G)2G	128.4530	-8.145	26055.423	2.5	D6S (3G)4G	103869.020	1.5	4F(5D)1[2]
128.1166	-5.058	21581.638	4.5	D6S (3H)4H	99757.120	4.5	4P (1G)2G	128.4539	-8.145	26055.423	2.5	D6S (3G)4G	103869.020	1.5	4F(5D)1[2]
128.1309	-3.801	21711.917	3.5	D6S (3H)4H	99757.120	4.5	4P (1G)2G	128.4548	-5.892	20805.770	4.5	D7 (5D)2H	98596.650	4.5	4SP(5D)4F
128.1373	-8.289	25981.629	3.5	D6S (3G)4G	104022.890	3.5	4F(5D)0[3]	128.4569	-6.103	25981.629	3.5	D6S (3G)4G	103701.720	4.5	4F(5D)2[5]
128.1671	-5.041	667.683	2.5	D6S (5D)6D	78690.846	2.5	4P (1D)12	128.4673	-8.082	25981.629	3.5	D6S (3G)4G	103698.440	2.5	4F(5D)2[3]
128.1741	-3.888	20516.960	2.5	D7 (5D)2D	98535.850	3.5	4SP(5D)4F	128.4675	-3.925	27314.922	3.5	D6S (3F)2F	105028.600	3.5	4SP(3I)4H
128.1868	-9.461	13904.824	0.5	D7 (5D)4F	91915.950	1.5	4SP(5D)6F	128.4683	-5.156	8680.454	1.5	D6S (5D)4D	86388.820	0.5	4P (3P)4D
128.1948	-9.030	25981.629	3.5	D6S (3G)4G	103987.930	2.5	4F(5D)1[3]	128.4691	-2.136	20830.582	2.5	D6S (3P)4P	98535.850	3.5	4SP(5D)4F
128.2176	-9.286	25428.784	5.5	D6S (3G)4G	103421.180	6.5	4F(5D)3[16]	128.4693	-5.336	16369.360	3.5	D7 (5D)2G	94073.240	3.5	4SP(5G)4G
128.2200	-7.622	26055.423	2.5	D6S (3G)4G	104046.350	2.5	4F(5D)0[3]	128.4707	-7.839	25981.629	3.5	D7 (5D)2D	99007.700	0.5	4SP(5D)4D
128.2246	-4.973	20516.960	2.5	D7 (5D)2D	98505.100	2.5	4SP(5D)4D	128.4708	-9.307	25981.629	3.5	D6S (3G)4G	103680.640	4.5	4F(5D)2[4]
128.2294	-3.575	30388.542	4.5	D6S (3G)2G	108373.800	3.5	2600D	128.4719	-4.131	13474.411	2.5	D7 (5D)4F	86543.974	1.5	4P (3P)4D
128.2391	-9.054	862.613	1.5	D6S (5D)6D	78841.960	0.5	4P (1D)2P	128.4728	-4.714	25428.784	5.5	D6S (3G)4G	103676.780	3.5	4F(5D)2[3]
128.2575	-3.234	31811.822	2.5	D7 (5D)2F	97800.000	1.5	2800D	128.4732	-2.490	25428.784	5.5	D6S (3G)4G	103167.937	3.5	5P (5D)8P
128.2586	-7.085	26055.423	2.5	D6S (3G)4G	104022.890	3.5	4F(5D)0[13]	128.4732	-2.490	25428.784	5.5	D6S (3G)4G	103167.937	3.5	5P (5D)8P
128.2941	-7.005	13904.824	0.5	D7 (5D)4F	91850.722	0.5	4SP(5D)6F	128.4735	-1.933	25787.598	1.5	D6S (3P)2P	103437.280	0.5	4F(5D)3[11]
128.3017	-4.379	21711.917	3.5	D6S (3H)4H	99653.220	4.5	4SP(3G)2G	128.4735	-1.933	25787.598	1.5	D6S (3P)2P	103437.280	0.5	4F(5D)3[11]
128.3046	-2.809	20830.582	2.5	D6S (3P)4P	98770.140	1.5	4SP(5D)4D	128.4742	-2.495	20830.582	2.5	D6S (3P)4P	98505.100	2.5	4SP(5D)4D
128.3061	-3.640	13904.824	0.5	D7 (5D)4F	91843.470	1.5	5P (5D)6P	128.4742	-2.495	20830.582	2.5	D6S (3P)4P	98505.100	2.5	4SP(5D)4D
128.3162	-8.348	26055.423	2.5	D6S (3G)4G	103987.930	2.5	4F(5D)1[3]	128.4746	-3.316	15844.650	4.5	D7 (5D)2G	93484.650	3.5	4P (3F)4F
128.3308	-5.516	21711.917	3.5	D6S (3H)4H	99635.520	3.5	4SP(3G)2G	128.4797	-4.982	15844.650	4.5	D7 (5D)2G	93484.650	3.5	4P (3F)4F
128.3387	-3.837	18360.646	1.5	D7 (5D)2P	96279.490	2.5	4SP(3G)2F	128.4797	-4.982	15844.650	4.5	D7 (5D)2G	93484.650	3.5	4P (3F)4F
128.3461	-7.382	26055.423	2.5	D6S (3G)4G	103969.760	3.5	4F(5D)1[3]	128.4807	-5.399	18360.646	1.5	D7 (5D)2P	95995.580	2.5	4SP(5P)4D
128.3518	-6.336	25787.598	1.5	D6S (3P)2P	103698.440	2.5	4F(5D)2[3]	128.4814	-5.985	25787.598	1.5	D6S (3P)2P	103418.080	0.5	4F(5D)3[0]
128.3594	-8.534	25805.328	4.5	D6S (3G)4G	103711.570	3.5	4F(5D)2[4]	128.4814	-5.985	25787.598	1.5	D6S (3P)2P	103418.080	0.5	4F(5D)3[0]
128.3665	-5.552	13673.185	1.5	D7 (5D)4P	91575.139	2.5	5P (5D)6P	128.4817	-8.149	25787.598	1.5	D6S (3P)2P	103417.910	1.5	4F(5D)3[11]
128.3680	-8.667	25981.629	3.5	D6S (3G)4G	103882.680	3.5	4F(5D)1[4]	128.4825	-7.758	862.613	1.5	D6S (5D)2D	78487.153	1.5	4P (1D)2D
128.3757	-8.266	25805.328	4.5	D6S (3G)4G	103701.720	4.5	4F(5D)2[5]	128.4825	-7.758	862.613	1.5	D6S (5D)2D	78487.153	1.5	4P (1D)2D
128.3823	-6.495	25981.629	3.5	D6S (3G)4G	103873.990	4.5	4F(5D)1[4]	128.4830	-6.613	26055.423	2.5	D6S (3G)4G	103676.780	3.5	4F(5D)2[3]
128.3885	-7.692	25787.598	1.5	D6S (3P)2P	103676.220	0.5	4F(5D)2[11]	128.4834	-4.106	16369.360	3.5	D7 (5D)2G	93988.170	2.5	4SP(5G)4G
128.3932	-6.715	25805.328	4.5	D6S (3G)4G	103691.050	5.5	4F(5D)2[5]	128.4834	-4.106	16369.360	3.5	D7 (5D)2G	93988.170	2.5	4SP(5G)4G
128.4009	-6.341	25787.598	1.5	D6S (3P)2P	103668.690	1.5	4F(5D)2[11]	128.4835	-7.229	25787.598	1.5	D6S (3P)2P	103406.250	2.5	4F(5D)3[2]
128.4091	-9.592	25981.629	3.5	D6S (3G)4G	103857.740	2.5	4F(5D)1[2]	128.4835	-7.229	25787.598	1.5	D6S (3P)2P	103406.250	2.5	4F(5D)3[2]
128.4104	-7.557	25805.328	4.5	D6S (3G)4G	103680.640	4.5	4F(5D)2[4]	128.4844	-6.108	26055.423	2.5	D6S (3G)4G	103668.690	1.5	4F(5D)2[11]
128.4120	-3.606	20516.960	2.5	D7 (5D)2D	98391.330	3.5	4SP(5D)4D	128.4850	-2.867	30764.485	3.5	D6S (3G)2G	108373.800	3.5	2600D
128.4136	-7.159	25787.598	1.5	D6S (3P)2P	103660.980	2.5	4F(5D)2[12]	128.4858	-7.076	26055.423	2.5	D6S (3G)4G	103660.980	2.5	4F(5D)2[12]
								128.4858	-7.076	25787.598	1.5	D6S (3P)2P	103391.290	1.5	4F(5D)3[2]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
128.8724	-2.034	13474.411	2.5	D7 (5D)4P	91070.547	2.5	5P (5D)4F	129.2912	-8.050	25981.629	3.5	D6S (3G)4G	103326.410	4.5	4F(5D)3[4]
128.8811	-8.454	25428.784	5.5	D6S (3G)4G	103019.670	6.5	4F(5D)4[7]	129.3021	-8.339	26352.766	4.5	D6S (3H)2H	103691.050	5.5	4F(5D)2[5]
128.8826	-3.617	22810.357	3.5	D6S (3F)4F	100400.360	2.5	4F(3F)2D	129.3025	-5.530	25787.598	1.5	D6S (3G)2P	103125.650	1.5	4F(5D)4[1]
128.8829	-7.885	26055.423	2.5	D6S (3G)4G	103645.220	1.5	4F(5D)2[2]	129.3061	-9.924	26055.423	2.5	D6S (3G)4G	103391.290	1.5	4F(5D)3[2]
128.8900	-6.101	20805.770	4.5	D7 (5D)2H	98391.330	3.5	4SP(5D)4[2]	129.3154	-6.103	26055.423	2.5	D6S (3G)4G	103385.730	3.5	4F(5D)3[3]
128.8985	-7.974	25805.328	4.5	D6S (3G)4G	103385.730	3.5	4F(5D)3[3]	129.3195	-9.355	26352.766	4.5	D6S (3H)2H	103680.640	4.5	4F(5D)2[4]
128.9056	-6.347	25787.598	1.5	D6S (3F)2P	103364.840	2.5	4F(5D)3[3]	129.3273	-5.736	25787.598	1.5	D6S (3H)2P	103110.790	1.5	4F(5D)4[1]
128.9056	-2.895	30388.542	4.5	D6S (3G)2P	107964.700	4.5	210DD	129.3375	-5.592	21581.638	4.5	D6S (3F)4F	98898.710	3.5	4P (1G)2F
128.9094	-3.303	13474.411	2.5	D7 (5D)4F	91048.256	1.5	5P (5D)4D	129.3503	-8.283	26055.423	2.5	D6S (3G)4G	103364.840	2.5	4F(5D)3[3]
128.9312	-1.086	20830.582	2.5	D6S (3F)4F	98391.330	3.5	4SP(5D)4D	129.3557	-2.345	13474.411	2.5	D7 (5D)4F	90780.621	3.5	5P (5D)4F
128.9465	-5.221	25428.784	5.5	D6S (3G)4G	102980.300	5.5	4SP(31)4F	129.3593	-2.489	13904.824	0.5	D7 (5D)4F	91199.746	0.5	5P (5D)4F
128.9535	-7.197	25805.328	4.5	D6S (3G)4G	103352.680	4.5	4F(5D)3[5]	129.3746	-2.221	13904.824	0.5	D7 (5D)4F	91199.746	0.5	5P (5D)4F
128.9549	-3.229	25787.598	1.5	D6S (3F)2P	103334.100	2.5	4SP(3D)2F	129.3908	-3.778	15844.650	4.5	D7 (5D)2G	93129.900	3.5	4P (3F)4D
128.9623	-5.449	8846.768	0.5	D6S (5D)4D	86388.820	0.5	4P (3F)4D	129.3909	-7.492	26055.423	2.5	D6S (3G)4G	103340.640	3.5	4F(5D)3[4]
128.9728	-3.542	13673.185	1.5	D7 (5D)4F	91208.887	1.5	5P (5D)4F	129.4018	-2.989	26055.423	2.5	D6S (3G)4G	103334.100	2.5	4SP(3D)2F
128.9735	-7.449	25805.328	4.5	D6S (3G)4G	103340.640	3.5	4F(5D)3[4]	129.4250	-3.886	31364.440	1.5	D6S (3D)4D	108629.250	2.5	4SP(3G)4G
128.9881	-5.388	13673.185	1.5	D7 (5D)4F	91199.746	0.5	5P (5D)4D	129.4482	-8.424	26170.181	5.5	D6S (3H)2H	103421.180	6.5	4F(5D)3[6]
128.9922	-2.258	20830.582	2.5	D6S (3F)4F	98354.660	2.5	4SP(5D)4F	129.4546	-5.649	25787.598	1.5	D6S (3F)2P	103034.760	1.5	4F(5D)4[2]
128.9944	-4.784	25428.784	5.5	D6S (3G)4G	102951.500	4.5	4SP(31)4I	129.4613	-3.595	31387.948	2.5	D6S (3D)4D	108631.090	3.5	4SP(3G)4G
128.9972	-6.702	25805.328	4.5	D6S (3G)4G	103326.410	4.5	4F(5D)3[4]	129.4721	-5.959	25787.598	1.5	D7 (5D)4F	103024.290	2.5	4F(5D)4[2]
128.9979	-6.689	25805.328	4.5	D6S (3G)4G	103325.950	5.5	4F(5D)3[5]	129.4868	-3.125	13673.185	1.5	D7 (5D)4F	103024.290	2.5	4F(5D)4[2]
129.0011	-4.480	31387.948	2.5	D6S (3D)4D	108906.640	3.5	4SP(3G)4H	129.4906	-1.899	13673.185	1.5	D7 (5D)4F	90898.873	1.5	4P (3P)4P
129.0139	-2.227	20340.300	5.5	D7 (5D)2H	97851.350	4.5	4P (1G)2H	129.5302	-3.193	25981.629	3.5	D6S (3G)2G	107186.700	4.5	4SP(3D)2F
129.0154	-7.913	977.053	0.5	D6S (5D)6D	78487.153	1.5	4P (1D)2D	129.5333	-4.056	30764.485	3.5	D6S (3G)4G	103964.700	4.5	210DD
129.0194	-0.776	20830.582	2.5	D6S (3F)4F	98338.280	1.5	4P (1D)2D	129.5386	-6.865	21308.040	1.5	D7 (5D)2D	98505.100	2.5	4SP(5D)4D
129.0355	-6.999	30388.542	4.5	D6S (3G)2G	107886.600	3.5	200DD	129.5410	-3.263	21812.055	1.5	D6S (3P)4F	99007.700	0.5	4SP(5D)4D
129.0366	-7.333	18360.646	1.5	D7 (5D)2P	95858.050	1.5	44DD	129.5558	-5.169	21711.917	3.5	D6S (3H)4H	98898.710	3.5	4P (1G)2F
129.0474	-3.193	30764.485	3.5	D6S (3G)2P	108239.200	3.5	240DD	129.5757	-2.676	25805.328	4.5	D6S (3G)4G	102980.300	5.5	4SP(31)4I
129.0772	-2.613	20805.770	4.5	D7 (5D)2H	98278.770	5.5	4P (1G)2H	129.5820	-3.095	22637.205	4.5	D6S (3F)4F	99808.400	3.5	4P (1G)2G
129.0828	-7.340	667.683	2.5	D6S (5D)6D	78137.364	3.5	4P (1D)2F	129.5903	-1.398	13673.185	1.5	D7 (5D)4F	90839.480	0.5	4P (3P)4P
129.0912	-9.183	25428.784	5.5	D6S (3G)4G	102893.380	5.5	4F(5D)4[6]	129.5932	-2.121	21430.359	5.5	D6S (3H)4F	98596.650	4.5	4SP(5D)4F
129.0954	-5.323	21308.040	1.5	D7 (5D)2D	98770.140	1.5	4SP(5D)4D	129.5932	-5.911	25787.598	1.5	D6S (3P)2P	102952.120	2.5	4F(5D)4[3]
129.0962	-6.176	16369.360	3.5	D7 (5D)2G	93830.979	2.5	4SP(5D)6D	129.6079	-2.768	13474.411	2.5	D7 (5D)4D	90638.822	2.5	5P (5D)4D
129.0972	-2.985	22939.358	2.5	D6S (3F)4F	100400.360	2.5	4SP(3P)2D	129.6079	-9.214	26170.181	5.5	D6S (3H)2H	103325.950	5.5	4F(5D)3[5]
129.1007	-4.205	1872.567	4.5	D7 (5D)4F	799331.500	3.5	4SP(5S)6P	129.6084	-0.527	13474.411	2.5	D7 (5D)4F	90629.902	1.5	4P (3P)4S
129.1544	-1.524	13474.411	2.5	D7 (5D)4P	90901.124	2.5	5P (5D)4P	129.6211	-4.978	31483.176	3.5	D6S (3D)4D	108631.090	3.5	4SP(3G)4G
129.1579	-7.579	25981.629	3.5	D6S (3G)4G	103406.250	2.5	4F(5D)3[2]	129.6241	-6.219	25805.328	4.5	D6S (3G)4G	102948.200	3.5	4F(5D)4[3]
129.1730	-2.929	31364.440	1.5	D6S (3D)4D	108780.000	1.5	270DD	129.6397	-6.956	25805.423	2.5	D6S (3G)4G	103183.700	3.5	4SP(3D)2F
129.1757	-4.293	31368.450	0.5	D6S (3D)4D	108780.000	1.5	270DD	129.6541	-4.365	26055.423	2.5	D6S (3G)2G	107886.600	3.5	200DD
129.1853	-2.166	27620.412	2.5	D6S (3F)2F	105028.600	3.5	4SP(31)4H	129.6645	-3.153	30764.485	3.5	D6S (3G)4G	99757.120	4.5	4P (1G)2G
129.1872	-5.785	18360.646	1.5	D7 (5D)2P	95767.700	0.5	4SP(5P)4D	129.6682	-3.442	22637.205	4.5	D6S (3F)4F	99757.120	4.5	4P (1G)2G
129.1921	-6.477	25981.629	3.5	D6S (3G)4G	103385.730	3.5	4F(5D)3[3]	129.6696	-2.964	13474.411	2.5	D7 (5D)2G	93487.650	3.5	4P (3F)4F
129.2034	-2.014	13673.185	1.5	D7 (5D)4P	91070.547	2.5	5P (5D)4F	129.6709	-4.424	16369.360	3.5	D7 (5D)2G	93484.580	4.5	4P (3F)4F
129.2122	-2.003	31387.948	2.5	D6S (3G)4D	108780.000	1.5	270DD	129.6761	-6.494	16369.360	3.5	D7 (5D)2G	93484.580	4.5	4P (3F)4F
129.2227	-4.084	31483.176	3.5	D6S (3D)4D	108868.980	4.5	4SP(3G)4H	129.7104	-4.247	31811.822	2.5	D7 (5D)2F	108906.640	3.5	4SP(3G)4H
129.2270	-7.829	25981.629	3.5	D6S (3G)4G	103364.840	2.5	4F(5D)3[3]	129.7218	-5.432	25805.328	4.5	D6S (3G)4G	102893.380	5.5	4F(5D)4[6]
129.2351	-3.201	25805.328	4.5	D6S (3G)4G	103183.700	3.5	4F(5D)3[2]	129.7229	-3.435	31483.176	3.5	D6S (3D)4D	108570.560	4.5	4SP(3G)4G
129.2431	-3.675	13673.185	1.5	D7 (5D)4P	91048.256	1.5	5P (5D)4D	129.7308	-6.654	23317.633	2.5	D5S2(7S)6S	100400.360	2.5	4SP(3P)2D
129.2473	-5.722	25981.629	3.5	D6S (3G)4G	103352.680	4.5	4F(5D)3[5]	129.7323	-6.991	25805.328	4.5	D6S (3G)4G	102887.120	3.5	4F(5D)4[4]
129.2506	-3.731	23031.300	1.5	D6S (3F)4F	100400.360	2.5	4SP(3P)2D	129.7403	-5.999	25805.328	4.5	D6S (3G)4G	102887.120	3.5	4F(5D)4[4]
129.2556	-2.454	30764.485	3.5	D6S (3G)2G	108130.600	2.5	220DD	129.7566	-7.889	26352.766	4.5	D6S (3H)2H	103420.160	5.5	4F(5D)3[6]
129.2567	-2.943	20830.582	2.5	D6S (3P)4P	98196.000	1.5	4SP(5D)4F	129.7671	-3.659	25428.784	5.5	D6S (3G)4G	102489.900	6.5	4SP(31)4K
129.2616	-7.336	26055.423	2.5	D6S (3G)4G	103417.910	1.5	4F(5D)3[1]	129.7768	-7.523	26055.423	2.5	D6S (3G)4G	103110.790	1.5	4F(5D)4[1]
129.2674	-7.832	25981.629	3.5	D6S (3G)4G	103340.640	3.5	4F(5D)3[4]	129.7915	-4.553	21308.040	1.5	D7 (5D)2D	98354.660	2.5	4SP(5D)4F
129.2692	-9.172	384.790	3.5	D6S (5D)6D	77742.730	2.5	4P (1D)2F	129.7925	-6.433	25805.328	4.5	D6S (3G)4G	102851.360	4.5	4F(5D)4[5]
129.2784	-3.652	25981.629	3.5	D6S (3G)4G	103334.100	2.5	4SP(3D)2F	129.7933	-0.928	20805.770	4.5	D7 (5D)2H	97851.350	4.5	4P (1G)2H
129.2811	-6.482	26055.423	2.5	D6S (3G)4G	103406.250	2.5	4F(5D)3[2]	129.7982	-6.920	25981.629	3.5	D6S (3G)4G	103024.290	2.5	4F(5D)4[2]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
129.8116	-1.046	26352.748	0.5	D6S (3F)2P	103967.490	0.0	5	4SP(3F)2S	130.1657	-4.141	22810.357	3.5	D6S (3F)4F	99635.520	3.5	4SP(3G)2G
129.8146	-9.733	26352.766	4.5	D6S (3H)2H	103385.730	3.5	5	4F(5D)3[3]	130.1678	-3.110	21711.917	3.5	D6S (3H)4H	98535.850	3.5	4SP(5D)4F
129.8191	-4.620	21308.040	1.5	D7 (5D)2D	98338.280	1.5	4	4SP(5F)4S	130.1691	-4.112	31368.450	0.5	D6S (3D)4D	108191.600	1.5	230DD
129.8243	-4.542	21251.608	6.5	D6S (3H)4H	98278.770	5.5	5	4P (1G)2F	130.1757	-4.945	31811.822	2.5	D7 (5D)2F	108631.090	3.5	4SP(3G)4G
129.8263	-4.354	16369.360	3.5	D7 (5D)2G	93395.360	2.5	4P (3F)4F	130.1835	-3.678	13673.185	1.5	D7 (5D)4F	90487.810	2.5	5P (5D)6F	
129.8263	-8.215	25805.328	4.5	D6S (3G)4G	102831.320	5.5	4F(5D)4[5]	130.1912	-3.143	26170.181	5.5	D6S (3H)2H	102980.300	5.5	4SP(3I)4I	
129.8431	-3.196	22637.205	4.5	D6S (3F)4F	99653.220	4.5	4SP(3G)2G	130.1919	-3.004	21581.638	4.5	D6S (3H)4H	98391.330	3.5	4SP(5D)4D	
129.8448	-2.755	11581.638	4.5	D6S (3H)4H	98596.650	4.5	4SP(5D)4F	130.1926	-4.040	20516.960	2.5	D7 (5D)2D	97326.270	1.5	4SP(3F)2F	
129.8475	-5.903	13474.411	2.5	D7 (5D)4F	90487.810	2.5	5P (5D)6F	130.2021	-3.120	31387.948	2.5	D6S (3D)4D	108191.600	1.5	230DD	
129.8646	-2.398	31368.450	0.5	D6S (3D)4D	108371.700	1.5	250DD	130.2199	-2.984	21711.917	3.5	D6S (3H)4H	98505.100	2.5	4SP(5D)4D	
129.8703	-8.714	26352.766	4.5	D6S (3H)2H	103352.680	4.5	4F(5D)3[5]	130.2400	-4.044	26170.181	5.5	D6S (3H)2H	102951.500	4.5	4SP(3I)4I	
129.8730	-3.337	22637.205	4.5	D6S (3F)4F	99635.520	3.5	4SP(3G)2G	130.2472	-4.498	30388.542	4.5	D6S (3G)2G	107165.600	3.5	170DD	
129.8734	-4.953	22810.357	3.5	D6S (3F)4F	99808.400	3.5	4P (1G)2G	130.2657	-2.152	31364.440	1.5	D6S (3D)4D	108130.600	2.5	220DD	
129.8802	-1.867	13904.824	0.5	D7 (5D)4F	90898.873	1.5	4P (3P)4P	130.2753	-7.147	16369.360	3.5	D7 (5D)2G	93129.900	3.5	4P (3F)4D	
129.8940	-4.894	31387.948	2.5	D6S (3D)4D	108373.800	3.5	260DD	130.2795	-2.918	15844.650	4.5	D7 (5D)2G	92602.703	3.5	4P (3F)2G	
129.8975	-2.894	31387.948	2.5	D6S (3D)4D	108371.700	1.5	250DD	130.3042	-1.803	31483.176	3.5	D6S (3D)4D	108239.200	3.5	240DD	
129.9050	-7.521	26055.423	2.5	D6S (3G)4G	103034.760	1.5	4F(5D)4[2]	130.3044	-4.880	26932.748	0.5	D6S (3P)2P	103676.220	0.5	4F(5D)2[1]	
129.9123	-5.986	13673.185	1.5	D7 (5D)4F	90648.217	0.5	5P (5D)6F	130.3056	-2.986	31387.948	2.5	D6S (3D)4D	90648.217	0.5	4F(5D)2[1]	
129.9146	-9.309	26352.766	4.5	D6S (3H)2H	103326.410	4.5	4F(5D)3[4]	130.3170	-7.033	26932.748	0.5	D6S (3P)2P	103668.690	1.5	4F(5D)2[1]	
129.9186	-5.225	18886.780	0.5	D7 (5D)2P	95858.050	1.5	4SP(5F)4D	130.3247	-9.353	27314.922	3.5	D6S (3F)2F	104046.350	2.5	4F(5D)0[3]	
129.9199	-6.946	25981.629	3.5	D6S (3G)4G	102952.120	2.5	4F(5D)4[3]	130.3355	-1.140	13904.824	0.5	D7 (5D)4F	90629.902	1.5	4P (3P)4S	
129.9210	-3.186	25981.629	3.5	D6S (3G)4G	102951.500	4.5	4SP(3I)4I	130.3387	-8.320	26170.181	5.5	D6S (3H)2H	102893.380	5.5	4F(5D)4[6]	
129.9227	-7.034	26055.423	2.5	D6S (3G)4G	103024.290	2.5	4F(5D)4[2]	130.3505	-2.694	25787.598	1.5	D6S (3P)2P	102503.810	1.5	4SP(3D)2D	
129.9238	-3.582	31811.822	2.5	D7 (5D)2F	108780.000	1.5	270DD	130.3569	-6.903	26932.748	0.5	D6S (3P)2P	103665.220	1.5	4F(5D)2[2]	
129.9275	-2.894	31387.948	2.5	D6S (3D)4D	108371.700	1.5	250DD	130.3574	-9.430	26170.181	5.5	D6S (3H)2H	102882.370	4.5	4F(5D)4[4]	
129.9367	-6.333	25981.629	3.5	D6S (3G)4G	102942.200	3.0	5	4F(5D)4[3]	130.3646	-9.818	27314.922	3.5	D6S (3F)2F	104022.890	3.5	4F(5D)0[3]
129.9409	-1.714	18182.055	1.5	D6S (3P)4P	98770.140	1.5	4SP(5D)4D	130.3830	-5.246	21581.638	4.5	D6S (3H)4H	98278.770	5.5	4P (1G)2H	
129.9432	-0.790	13673.185	1.5	D7 (5D)4F	90629.902	1.5	4P (3P)4F	130.3846	-6.072	22939.358	2.5	D6S (3F)4F	99635.520	3.5	4SP(3G)2G	
129.9474	-2.428	21581.638	4.5	D6S (3H)4H	98335.850	3.5	4SP(5D)4F	130.3899	-1.628	21812.055	1.5	D6S (3P)4F	98505.100	2.5	4SP(5D)4D	
129.9533	-6.139	26170.181	5.5	D6S (3H)2H	103120.900	6.5	4SP(3I)4I	130.3974	-3.506	13904.824	0.5	D7 (5D)4F	95093.497	1.5	5P (5D)6F	
129.9600	-4.383	22810.357	3.5	D6S (3F)4F	99757.120	4.5	4P (1G)2G	130.4028	-3.979	18360.646	1.5	D7 (5D)2P	95046.100	2.5	4P (3F)2F	
129.9677	-6.346	26932.748	0.5	D6S (3P)2P	103869.020	1.5	4F(5D)1[2]	130.4101	-9.769	26170.181	5.5	D6S (3H)2H	102851.360	4.5	4F(5D)4[5]	
129.9804	-2.073	13904.824	0.5	D7 (5D)4F	90839.480	0.5	4P (3P)4D	130.4131	-3.866	21711.917	3.5	D6S (3H)4H	98391.330	3.5	4SP(5D)4D	
129.9994	-2.072	13474.411	2.5	D7 (5D)4F	90397.868	3.5	5P (5D)4D	130.4146	-2.547	18360.646	1.5	D7 (5D)2P	95039.200	1.5	4P (3P)2P	
130.0047	-3.268	13673.185	1.5	D7 (5D)4F	90593.497	1.5	5P (5D)6F	130.4240	-9.797	27314.922	3.5	D6S (3F)2F	103987.930	2.5	4F(5D)1[3]	
130.0195	-5.006	25428.784	5.5	D6S (3G)4G	102340.300	5.5	4SP(3I)4K	130.4290	-9.340	26170.181	5.5	D6S (3H)2H	102840.250	6.5	4F(5D)4[6]	
130.0297	-6.369	25981.629	3.5	D6S (3F)4F	102887.120	3.5	4F(5D)4[4]	130.4436	-1.088	25787.598	1.5	D6S (3P)2P	102449.100	2.5	4SP(3D)2D	
130.0366	-5.211	2430.097	3.5	D7 (5D)4F	97933.150	3.5	4F(5D)4[3]	130.4549	-8.401	26170.181	5.5	D6S (3H)2H	102840.250	6.5	4F(5D)4[6]	
130.0378	-6.120	25981.629	3.5	D6S (3G)4G	102882.370	4.5	4F(5D)4[4]	130.4675	-2.900	31483.176	3.5	D6S (3P)2P	103969.760	3.5	4F(5D)1[3]	
130.0446	-7.076	26055.423	2.5	D6S (3G)4G	102952.120	2.5	4F(5D)4[3]	130.5014	-3.891	26352.766	4.5	D6S (3H)2H	102980.300	5.5	4SP(3I)4I	
130.0549	-4.432	31483.176	3.5	D6S (3D)4D	108373.800	3.5	260DD	130.5180	-1.849	30388.542	4.5	D6S (3G)2G	107006.350	4.5	4SP(3I)4I	
130.0594	-4.488	21308.040	1.5	D7 (5D)2D	98196.000	1.5	4SP(5D)4F	130.5250	-2.777	22409.852	0.5	D6S (3P)4F	99007.700	0.5	4SP(5D)4D	
130.0614	-7.218	26055.423	2.5	D6S (3G)4G	102942.200	3.5	4F(5D)4[3]	130.5520	-1.923	15844.650	4.5	D7 (5D)2G	92426.980	4.5	4SP(5D)6F	
130.0648	-4.417	21711.917	3.5	D6S (3H)4H	98596.650	4.5	4SP(5D)4F	130.5696	-6.731	15844.650	4.5	D7 (5D)2G	92426.980	4.5	4SP(5D)6F	
130.0713	-5.552	18886.780	0.5	D7 (5D)2P	95767.700	0.5	4SP(5F)4D	130.5784	-3.344	15844.650	4.5	D7 (5D)2G	92426.980	4.5	4SP(5D)6F	
130.0726	-8.326	862.613	1.5	D6S (5D)6D	77742.730	2.5	4P (1D)2F	130.6033	-9.483	27314.922	3.5	D6S (3F)2F	103882.680	3.5	4F(5D)1[4]	
130.0899	-4.297	31999.048	3.5	D7 (5D)2F	108868.960	4.5	4SP(3G)4H	130.6131	-3.485	31811.822	2.5	D7 (5D)2F	108373.800	3.5	260DD	
130.0902	-6.581	25981.629	3.5	D6S (3G)4G	102851.360	4.5	4F(5D)4[5]	130.6167	-2.653	31811.822	2.5	D7 (5D)2F	108371.700	1.5	250DD	
130.0914	-5.299	22939.358	2.5	D6S (3F)4F	99808.400	3.5	4P (1G)2G	130.6181	-7.186	27314.922	3.5	D6S (3F)2F	103873.990	4.5	4F(5D)1[4]	
130.1151	-4.911	2430.097	3.5	D7 (5D)4F	79285.110	2.5	4SP(5S)6P	130.6458	-9.897	27314.922	3.5	D6S (3F)2F	103857.740	2.5	4F(5D)1[2]	
130.1215	-4.898	31387.948	2.5	D6S (3D)4D	108239.200	3.5	240DD	130.6462	-1.506	21812.055	1.5	D6S (3P)4H	98354.660	2.5	4SP(5D)4F	
130.1245	-7.592	26170.181	5.5	D6S (3H)2H	103019.670	6.5	4F(5D)4[7]	130.6496	-8.477	26352.766	4.5	D6S (3H)2H	102893.380	5.5	4F(5D)4[6]	
130.1263	-5.385	21430.359	5.5	D6S (3H)4H	98278.770	5.5	4P (1G)2H	130.6580	-4.183	25805.423	2.5	D6S (3G)4G	102340.300	5.5	4SP(3I)4K	
130.1357	-4.709	22810.357	3.5	D6S (3F)4F	99653.220	4.5	4SP(3G)2G	130.6680	-9.241	16369.360	3.5	D7 (5D)2G	92899.200	2.5	4P (3F)4D	
130.1546	-7.297	26055.423	2.5	D6S (3G)4G	102887.120	3.5	4F(5D)4[4]	130.6684	-9.241	26352.766	4.5	D6S (3H)2H	102882.370	4.5	4F(5D)4[4]	
130.1559	-1.798	26352.766	4.5	D6S (3H)2H	103183.700	3.5	4SP(3D)2F	130.6742	-1.315	21812.055	1.5	D6S (3P)4H	98338.280	1.5	4SP(5P)4S	
130.1623	-3.209	31364.440	1.5	D6S (3D)4D	108191.600	1.5	230DD									
130.1639	-2.892	13474.411	2.5	D7 (5D)4F	90300.625	3.5	5P (5D)6F									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
130.6846	-4.130	18360.646	1.5	D7 (5D)2P	94880.740	0.5	4SP(5P)4P	131.1615	-1.262	30764.485	3.5	D6S (3G)2G	107006.350	4.5	4SP(31)2H
130.7112	-6.444	26932.748	0.5	D6S (3P)2P	103437.280	0.5	4F(5D)3[1]	131.1645	-3.600	31999.048	3.5	D7 (5D)2F	108239.200	3.5	240DD
130.7213	-2.403	31387.948	2.5	D6S (3D)4D	107886.600	3.5	200DD	131.1651	-3.271	32909.905	5.5	D6S (11)21	109149.680	6.5	4SP(31)2I
130.7214	-9.662	26352.766	4.5	D6S (3H)2H	102851.360	4.5	4F(5D)4[5]	131.1693	-8.329	27620.412	2.5	D6S (3F)2F	103857.740	2.5	4F(5D)1[2]
130.7263	-1.422	20830.582	2.5	D6S (3E)4E	97326.270	1.5	4SP(3P)2P	131.1762	-2.443	16369.360	3.5	D7 (5D)2G	92602.703	3.5	4F (3F)2G
130.7300	-6.601	2837.950	2.5	D7 (5D)4F	79331.500	3.5	4SP(5S)6P	131.2458	-7.782	26932.748	0.5	D6S (3P)2P	103125.650	0.5	4F(5D)4[1]
130.7440	-7.805	26932.748	0.5	D6S (3P)2P	103418.080	0.5	4F(5D)3[10]	131.2714	-7.789	26932.748	0.5	D6S (3H)2H	103110.790	1.5	4F(5D)4[1]
130.7443	-6.787	26932.748	0.5	D6S (3P)2P	103417.910	1.5	4F(5D)3[11]	131.2851	-3.734	26170.181	5.5	D6S (3H)2H	102340.300	5.5	4SP(31)4K
130.7505	-3.608	31483.176	3.5	D6S (3D)4D	107964.700	4.5	210DD	131.2893	-6.954	3117.461	1.5	D7 (5D)4F	79285.110	2.5	4SP(5S)6P
130.7623	-2.786	30388.542	4.5	D6S (3G)2G	106863.200	3.5	160DD	131.3156	-2.302	18886.748	0.5	D7 (5D)2P	95039.200	1.5	4P (3P)2P
130.7626	-2.324	25981.629	3.5	D6S (3G)4G	102449.100	2.5	4SP(3D)2D	131.3171	-3.097	13474.411	2.5	D7 (5D)4P	89625.940	1.5	4SP(5P)6P
130.7798	-7.588	26932.748	0.5	D6S (3P)2P	103391.290	1.5	4F(5D)3[2]	131.3380	-4.977	21711.917	3.5	D6S (3H)4H	97851.350	4.5	4P (1G)2H
130.7948	-6.838	15844.650	4.5	D7 (5D)2G	92300.277	4.5	4SP(5D)6F	131.3516	-2.566	31999.048	3.5	D7 (5D)2F	108130.600	3.5	200DD
130.8072	-2.314	26055.423	2.5	D6S (3G)4G	102503.810	1.5	4SP(3D)2D	131.3565	-6.583	3117.461	1.5	D7 (5D)4F	79246.170	1.5	4SP(5S)6P
130.8093	-5.680	2837.950	2.5	D7 (5D)4F	79285.110	2.5	4SP(5S)6P	131.3609	-4.663	3117.461	1.5	D7 (5D)4F	79243.600	1.5	4P (1D)2P
130.8253	-2.837	15844.650	4.5	D7 (5D)2G	92282.460	3.5	4SP(5G)4F	131.4026	-7.850	26932.748	0.5	D6S (3P)2P	103034.760	1.5	4F(5D)4[2]
130.8357	-3.210	30764.485	3.5	D6S (3G)2G	107196.200	2.5	180DD	131.4083	-4.995	30764.485	3.5	D6S (3G)2G	106863.200	3.5	160DD
130.8456	-8.407	27620.412	2.5	D6S (3F)2F	104046.350	2.5	4F(5D)0[3]	131.4213	-8.384	27620.412	2.5	D6S (3F)2F	103711.570	3.5	4F(5D)2[4]
130.8541	-5.027	21430.359	5.5	D6S (3H)4H	97851.350	4.5	4P (1G)2H	131.4262	-4.182	22810.357	3.5	D6S (3F)4F	98898.710	3.5	4P (1G)2F
130.8627	-6.418	13474.411	2.5	D7 (5D)4P	89890.373	3.5	4P (3F)4G	131.4440	-7.925	27620.412	2.5	D6S (3F)2F	103698.440	2.5	4F(5D)2[3]
130.8760	-5.899	2837.950	2.5	D7 (5D)4F	79246.170	1.5	4SP(5S)6P	131.4496	-4.478	31811.822	2.5	D7 (5D)2F	107886.600	3.5	200DD
130.8804	-3.975	2837.950	2.5	D7 (5D)4F	79243.600	1.5	4P (1D)2P	131.4793	-4.996	16369.360	3.5	D7 (5D)2G	92426.980	4.5	4SP(5G)4F
130.8858	-7.274	27620.412	2.5	D6S (3F)2F	104022.890	3.5	4F(5D)0[3]	131.4814	-8.629	27620.412	2.5	D6S (3F)2F	103676.780	3.5	4F(5D)2[3]
130.8881	-4.651	30764.485	3.5	D6S (3G)2G	107165.600	3.5	170DD	131.4853	-7.234	13673.185	1.5	D7 (5D)4P	80927.342	2.5	4P (3F)4G
130.8958	-7.730	27314.922	3.5	D6S (3F)2F	103711.570	3.5	4F(5D)2[4]	131.4926	-8.559	27314.922	3.5	D6S (3F)2F	103364.840	2.5	4F(5D)3[3]
130.8968	-1.530	32875.646	6.5	D6S (11)21	109271.710	5.5	4SP(31)2I	131.5087	-8.900	27620.412	2.5	D6S (3F)2F	103660.980	2.5	4F(5D)2[2]
130.9009	-3.374	26055.423	2.5	D6S (3G)4G	102449.100	2.5	4SP(3D)2D	131.5136	-8.561	27314.922	3.5	D6S (3F)2F	103352.680	4.5	4F(5D)3[5]
130.9127	-7.180	27314.922	3.5	D6S (3F)2F	103701.720	4.5	4F(5D)2[5]	131.5344	-8.117	27314.922	3.5	D6S (3F)2F	103340.640	3.5	4F(5D)3[4]
130.9176	-2.918	21812.055	1.5	D6S (3P)4P	98196.000	1.5	4SP(5D)4F	131.5458	-3.177	27314.922	3.5	D6S (3F)2F	103334.100	2.5	4SP(3D)2F
130.9183	-8.997	27314.922	3.5	D6S (3F)2F	103698.440	2.5	4F(5D)2[3]	131.5474	-5.076	21308.040	1.5	D7 (5D)2D	97326.270	1.5	4SP(3P)2F
130.9269	-4.975	18360.646	1.5	D7 (5D)2P	94739.170	1.5	4SP(5P)4P	131.5591	-7.812	27314.922	3.5	D6S (3F)2F	103326.410	4.5	4F(5D)3[4]
130.9333	-3.902	31999.048	3.5	D7 (5D)2F	108373.800	3.5	260DD	131.5894	-5.113	18886.780	0.5	D7 (5D)2P	94880.740	0.5	4SP(5P)4P
130.9457	-9.467	27620.412	2.5	D6S (3F)2F	103987.930	2.5	4F(5D)1[3]	131.6005	-3.894	26352.766	4.5	D6S (3H)2H	102340.300	5.5	4SP(31)4K
130.9488	-7.650	27314.922	3.5	D6S (3F)2F	103680.640	4.5	4F(5D)2[4]	131.6198	-2.278	23031.300	1.5	D6S (3F)4F	99007.700	0.5	4SP(5D)4D
130.9555	-0.093	32909.905	5.5	D6S (11)21	109271.710	5.5	4SP(31)2I	131.6308	-4.616	13474.411	2.5	D7 (5D)4F	89444.458	2.5	4SP(5P)6P
130.9581	-1.881	22409.852	0.5	D6S (3P)4P	98770.140	1.5	4SP(5D)4D	131.6346	-5.909	8391.938	2.5	D6S (5D)4D	84359.800	1.5	4P (1F)2D
130.9769	-6.737	27620.412	2.5	D6S (3F)2F	103969.760	3.5	4F(5D)2[2]	131.6384	-3.601	31999.048	3.5	D7 (5D)2G	107964.700	4.5	210DD
130.9825	-9.475	27314.922	3.5	D6S (3F)2F	103660.980	2.5	4F(5D)2[2]	131.6473	-4.827	16369.360	3.5	D7 (5D)2G	92329.890	2.5	4SP(5G)4F
130.9929	-2.493	18360.646	1.5	D7 (5D)2P	94700.660	2.5	4P (3F)2D	131.6492	-1.318	22637.205	4.5	D6S (3F)4F	98596.650	4.5	4SP(5D)4F
131.0151	-2.137	15844.650	4.5	D7 (5D)2G	92171.716	4.5	4P (3P)2G	131.6494	-4.665	22939.358	2.5	D6S (3F)4F	98898.710	3.5	4P (1G)2F
131.0169	-3.943	16369.360	3.5	D7 (5D)2P	92695.374	2.5	4P (3P)2D	131.6498	-3.513	32909.905	5.5	D6S (11)21	108868.980	4.5	4SP(3G)4H
131.0196	-4.230	18360.646	1.5	D7 (5D)2P	94685.090	2.5	4SP(5D)6P	131.6608	-3.214	13673.185	1.5	D7 (5D)4F	89625.940	1.5	4SP(5P)6P
131.0239	-5.788	15844.650	4.5	D7 (5D)2G	92166.600	5.5	4SP(5G)4H	131.6939	-4.660	32875.646	6.5	D6S (11)21	108809.310	5.5	4SP(3G)4H
131.0274	-4.484	26170.181	5.5	D6S (3H)2H	102489.900	6.5	4SP(31)4K	131.6987	-7.518	16369.360	3.5	D7 (5D)2G	92300.277	4.5	4SP(5D)6F
131.0294	-3.515	31811.822	2.5	D7 (5D)2F	108130.600	2.5	220DD	131.7030	-1.302	22409.852	0.5	D6S (3P)2G	98338.280	1.5	4SP(5P)4S
131.0309	-9.159	23317.633	2.5	D5SP(78)68	99635.520	3.5	4SP(3G)2G	131.7247	-5.823	7955.299	3.5	D6S (5D)4D	83871.184	4.5	4P (1F)2G
131.0453	-5.875	15844.650	4.5	D7 (5D)2G	92154.165	3.5	4SP(5D)6F	131.7295	-4.576	7955.299	3.5	D6S (5D)4D	83868.450	2.5	4P (1F)2D
131.0588	-1.141	30388.542	4.5	D6S (3G)2G	106690.170	5.5	4SP(31)2H	131.7296	-2.690	16369.360	3.5	D7 (5D)2G	92282.460	3.5	4SP(5G)4F
131.1062	-0.084	32875.646	6.5	D6S (11)21	109149.680	6.5	4SP(31)2I	131.7440	-6.961	16369.360	3.5	D7 (5D)2G	92274.120	2.5	4P (3P)4P
131.1095	-3.242	15844.650	4.5	D7 (5D)2G	92116.780	4.5	4SP(5G)4H	131.7533	-1.800	32909.905	5.5	D6S (11)21	108629.200	4.5	4SP(3G)2H
131.1136	-4.835	21581.638	4.5	D6S (3H)4H	97851.350	4.5	4P (1G)2H	131.7542	-4.738	20340.300	5.5	D7 (5D)2H	109809.310	5.5	4SP(3G)4H
131.1121	-4.298	1872.567	4.5	D7 (5D)4F	78137.364	3.5	4P (1D)2F	131.7547	-1.788	22637.205	4.5	D6S (3F)4F	98535.850	3.5	4SP(5D)4F
131.1264	-7.026	27620.412	2.5	D6S (3F)2F	103882.680	3.5	4F(5D)1[4]	131.7739	-4.528	31999.048	3.5	D7 (5D)2F	107886.600	3.5	200DD
131.1278	-3.949	22637.205	4.5	D6S (3F)4F	98898.710	3.5	4P (1G)2F	131.8065	-1.510	27314.922	3.5	D6S (3F)2F	103183.700	3.5	4SP(3D)2F
131.1291	-4.164	2430.097	3.5	D7 (5D)4F	78690.846	2.5	4P (1D)2D	131.8274	-4.112	13474.411	2.5	D7 (5D)4F	89331.195	1.5	5P (5D)6D
131.1425	-9.822	13474.411	2.5	D7 (5D)4P	89727.342	2.5	4P (3F)4G	131.8330	-1.437	32875.646	6.5	D6S (11)21	108729.160	6.5	4SP(3G)4H
131.1499	-9.818	27620.412	2.5	D6S (3F)2F	103869.020	1.5	4F(5D)1[2]	131.8341	-4.286	2837.950	2.5	D7 (5D)4F	78690.846	2.5	4P (1D)2D
131.1568	-4.942	15844.650	4.5	D7 (5D)2G	92089.260	3.5	4SP(5G)4H	131.8350	-4.493	18886.780	0.5	D7 (5D)2P	94739.170	1.5	4SP(5P)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	
131.8373	-4.286	18360.646	1.5	D7	(5D)2P	94211.739	2.5	48P(5P)4P	132.3082	-7.940	23317.633	2.5	D5S2(7S)6S
131.8565	-2.573	20516.960	2.5	D7	(5D)2D	96356.960	3.5	48P(3G)2F	132.3084	-1.746	22810.357	3.5	D6S (3F)4F
131.8709	-3.493	31364.440	1.5	D6S	(3D)4D	107196.200	2.5	180DD	132.3207	-3.707	32909.905	5.5	D6S (1I)2I
131.8726	-2.051	22939.358	2.5	D6S	(3F)4F	98770.140	1.5	48P(5D)4D	132.3217	-7.400	3117.461	1.5	D7 (5D)4F
131.8926	-4.720	32909.905	5.5	D6S	(1I)2I	108729.160	6.5	48P(3G)4H	132.3238	-7.540	27314.922	3.5	D6S (3F)2F
131.9118	-4.012	31387.948	2.5	D6S	(3D)4D	107196.200	2.5	180DD	132.3258	-1.170	26932.748	0.5	D6S (3P)2P
131.9170	-1.794	33466.463	4.5	D6S	(1G)2G	109271.710	5.5	48P(3I)2I	132.3321	-7.212	27314.922	3.5	D6S (3F)2F
131.9216	-4.206	36126.387	1.5	D6S	(3D)2D	111929.000	2.5	290DD	132.3337	-6.270	13904.824	0.5	D7 (5D)4F
131.9220	-3.857	16369.360	3.5	D7	(3D)2G	92171.716	4.5	4P (3F)2G	132.3351	-1.655	22939.358	2.5	D6S (3F)4F
131.9293	-5.418	13673.185	1.5	D7	(5D)4P	89471.365	0.5	5P (5D)6D	132.3394	-3.402	27620.412	2.5	D6S (3F)2F
131.9305	-8.973	27620.412	2.5	D6S	(3F)2F	103417.910	1.5	4F(5D)3[1]	132.3606	-3.029	20805.770	4.5	D7 (5D)2H
131.9500	-2.839	25787.598	1.5	D6S	(3F)2F	101573.910	1.5	48P(5D)4P	132.3727	-1.593	22810.357	3.5	D6S (3F)4F
131.9500	-2.389	22810.357	3.5	D6S	(3F)4F	98596.650	4.5	48P(5D)4F	132.3864	-7.645	27314.922	3.5	D6S (3F)2F
131.9502	-4.930	22409.852	0.5	D6S	(3P)4P	98196.000	1.5	48P(5D)4F	132.3970	-8.412	384.790	3.5	D6S (5D)6D
131.9508	-8.263	27620.412	2.5	D6S	(3F)2F	103406.250	2.5	4F(5D)3[2]	132.4041	-7.115	20830.582	2.5	D6S (3P)4P
131.9526	-5.153	16369.360	3.5	D7	(5D)2G	92154.165	3.5	48P(5D)6F	132.4097	-4.302	31483.176	3.5	D6S (3D)4D
131.9650	-1.995	31387.948	2.5	D6S	(3D)4D	107165.600	3.5	5P (5D)6D	132.4179	-4.017	26055.423	2.5	D6S (3G)4G
131.9761	-5.897	13673.185	1.5	D7	(5D)4P	89444.458	2.5	48P(5P)6P	132.4254	-1.365	21812.055	1.5	D6S (3P)4P
131.9865	-8.367	27620.412	2.5	D6S	(3F)2F	103391.290	1.5	4F(5D)3[2]	132.4275	-4.757	8846.768	0.5	D6S (5D)4D
131.9914	-4.196	22637.205	4.5	D6S	(3F)4F	96279.490	2.5	48P(3G)2F	132.4672	-8.369	27620.412	2.5	D6S (3F)2F
132.0060	-1.354	22637.205	4.5	D6S	(3F)4F	98391.330	3.5	48P(5D)4F	132.4860	-4.374	18360.646	1.5	D7 (5D)2P
132.0177	-4.706	16369.360	3.5	D7	(5D)2G	92116.780	4.5	48P(5G)4H	132.4877	-5.130	20516.960	2.5	D7 (5D)2D
132.0229	-9.111	27620.412	2.5	D6S	(3F)2F	103364.840	2.5	4F(5D)3[3]	132.4938	-2.423	31387.948	2.5	D6S (3D)4D
132.0327	-2.295	23031.300	1.5	D6S	(3F)4F	98770.140	1.5	48P(5D)4F	132.4963	-2.547	23031.300	1.5	D6S (3F)4F
132.0559	-1.769	22810.357	3.5	D6S	(3F)4F	98535.850	3.5	48P(5D)4F	132.5024	-2.547	18360.646	1.5	D7 (5D)2P
132.0577	-4.007	3117.461	1.5	D7	(5D)4F	78841.960	0.5	4P (1D)2P	132.5337	-5.873	23317.633	2.5	D5S2(7S)6S
132.0624	-3.282	20340.300	5.5	D7	(5D)2H	96062.060	5.5	48P(3G)2F	132.5346	-2.072	22939.358	2.5	D6S (3F)4F
132.0636	-3.589	13904.824	0.5	D7	(5D)4P	89625.940	1.5	48P(5P)6P	132.5400	-3.607	20830.582	2.5	D6S (3P)4P
132.0651	-9.124	27620.412	2.5	D6S	(3F)2F	103340.640	3.5	4F(5D)3[4]	132.5447	-4.485	13673.185	1.5	D7 (5D)4P
132.0657	-4.185	16369.360	3.5	D7	(5D)2G	92089.260	3.5	48P(5G)4H	132.5554	-4.760	33466.463	4.5	D6S (1G)2G
132.0745	-9.821	862.613	1.5	D6S	(5D)6D	76577.482	0.5	4P (1S)2P	132.5672	-3.796	20805.770	4.5	D7 (5D)2H
132.0765	-1.830	27620.412	2.5	D6S	(3F)2F	103334.100	2.5	48P(3D)2F	132.5796	-4.486	13904.824	0.5	D7 (5D)4P
132.0777	-3.318	31483.176	3.5	D6S	(3D)4D	96217.420	3.5	48P(5P)4D	132.5991	-4.013	22939.358	2.5	D6S (3F)4F
132.0841	-8.076	27314.922	3.5	D6S	(3F)2F	107196.200	2.5	180DD	132.6008	-8.374	27620.412	2.5	D6S (3F)2F
132.0877	-4.244	2430.097	3.5	D7	(5D)4F	78137.364	3.5	4P (1D)2F	132.6055	-6.839	20805.770	4.5	D7 (5D)2H
132.0996	-4.798	20516.960	2.5	D7	(5D)2D	98505.140	3.5	48P(5P)4D	132.6165	-4.883	33501.253	3.5	D6S (1G)2G
132.1096	-2.574	22810.357	3.5	D6S	(3F)4F	98217.420	3.5	48P(5D)4D	132.6192	-7.978	27620.412	2.5	D6S (3F)2F
132.1311	-2.831	31483.176	3.5	D6S	(3D)4D	107165.600	3.5	170DD	132.6216	-4.088	33466.463	4.5	D6S (1G)2G
132.1364	-6.991	8680.454	1.5	D6S	(5D)4D	84359.800	1.5	4P (1F)2D	132.6279	-2.991	22939.358	2.5	D6S (3F)4F
132.1421	-4.930	36252.918	2.5	D6S	(3D)2D	111929.000	2.5	290DD	132.6492	-2.797	31811.822	2.5	D7 (5D)2F
132.1515	-5.872	18360.646	1.5	D7	(5D)2P	94031.378	0.5	48P(5D)6D	132.6535	-4.155	31811.822	2.5	D7 (5D)2F
132.1691	-3.157	32909.905	5.5	D6S	(1I)2I	108570.560	4.5	48P(3G)4G	132.6611	-3.111	31483.176	3.5	D6S (3D)4D
132.1737	-5.117	13673.185	1.5	D7	(5D)4P	89331.195	1.5	5P (5D)6P	132.6827	-4.758	13474.411	2.5	D7 (5D)4F
132.1805	-4.418	13474.411	2.5	D7	(5D)4P	89128.561	3.5	48P(5P)6P	132.6793	-4.042	3117.461	1.5	D7 (5D)4F
132.1888	-9.693	16369.360	3.5	D7	(5D)2G	92018.729	2.5	48P(5D)6F	132.6828	-2.961	33501.253	3.5	D6S (3P)4P
132.1891	-5.373	2837.950	2.5	D7	(5D)4F	78487.153	1.5	4P (1F)2D	132.7073	-4.770	31811.822	2.5	D7 (5D)2F
132.1964	-5.863	13474.411	2.5	D7	(5D)4P	89119.457	2.5	5P (5D)6D	132.7141	-7.225	7955.299	3.5	D6S (5D)4D
132.2024	-5.813	22637.205	4.5	D6S	(3F)4F	98278.770	5.5	4P (1G)2H	132.7266	-2.757	33466.463	4.5	D6S (1G)2G
132.2101	-8.104	27314.922	3.5	D6S	(3F)2F	102952.120	2.5	4F(5D)4[3]	132.7297	-4.201	20516.960	2.5	D7 (5D)2D
132.2170	-6.868	27314.922	3.5	D6S	(3F)2F	102951.500	4.5	48P(3I)4I	132.7462	-7.998	27620.412	2.5	D6S (3F)2F
132.2272	-3.552	18360.646	1.5	D7	(5D)2P	93988.170	2.5	48P(5G)4G	132.7488	-2.513	13673.185	1.5	D7 (5D)4F
132.2274	-7.511	27314.922	3.5	D6S	(3F)2F	102942.200	3.5	4F(5D)4[3]	132.7609	-3.810	23031.300	1.5	D6S (3F)4F
132.2493	-3.194	25787.598	1.5	D6S	(3F)2P	101402.380	0.5	48P(5D)4F	132.7631	-8.954	15844.650	4.5	D7 (5D)2G
132.2607	-2.753	32875.646	6.5	D6S	(1I)2I	108483.870	5.5	48P(3G)4G	132.7611	-8.077	27620.412	2.5	D6S (3F)2F
132.2735	-7.336	0.000	4.5	D6S	(5D)6D	75600.931	3.5	4P (3D)2F	132.7798	-4.867	2430.097	3.5	D7 (5D)4F
132.2744	-7.529	977.053	0.5	D6S	(5D)6D	76577.482	0.5	4P (1S)2P	132.7898	-3.733	23031.300	1.5	D6S (3F)4F
132.2813	-2.514	22939.358	2.5	D6S	(3F)4F	98535.850	3.5	48P(5D)4F	132.8032	-4.513	2837.950	2.5	D7 (5D)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
132.8609	-8.109	27620.412	2.5	D6S (3F)2F	102887.120	3.5	4F(5D)4[4]	133.9763	-4.404	30388.542	4.5	D6S (3G)2G	105028.600	3.5	4SP(3I)4H
132.8786	-2.439	22939.358	2.5	D6S (3F)4F	98196.000	1.5	4SP(5D)4F	133.9840	-3.316	21581.638	4.5	D6S (3H)4H	96217.420	3.5	4SP(5P)4D
132.8793	-4.174	20805.770	4.5	D7 (5D)2H	96062.060	5.5	4SP(3G)2H	133.9913	-3.040	31430.359	5.5	D6S (3H)4H	96062.060	5.5	4SP(3G)2H
132.8947	-7.950	667.683	2.5	D6S (5D)6D	75915.215	2.5	4P (3D)2F	133.9955	-4.913	33501.253	3.5	D6S (1G)2G	108130.600	2.5	220DD
132.9465	-5.146	23317.633	2.5	D5S2(7S)6S	98535.850	3.5	4SP(5D)4F	134.0029	-4.136	3117.461	1.5	D7 (5D)4F	77742.730	2.5	4P (1D)2F
132.9502	-8.479	384.790	3.5	D6S (5D)6D	75600.931	3.5	4P (3D)2F	134.0253	-1.957	25787.598	1.5	D6S (3P)2P	100400.360	2.5	4SP(3P)2D
132.9537	-4.728	22637.205	4.5	D6S (3F)4F	97831.350	4.5	4P (1G)2H	134.0753	-4.054	13474.441	2.5	D7 (5D)4F	88059.380	2.5	4SP(5P)6D
132.9685	-8.920	16369.360	3.5	D7 (5D)2G	91751.139	2.5	5P (5D)6P	134.1066	-2.298	21711.917	3.5	D6S (3H)4H	96279.490	2.5	4SP(3G)2F
132.9838	-4.548	31999.048	3.5	D7 (5D)2F	10196.200	2.5	180DD	134.1154	-2.386	20516.960	2.5	D7 (5D)2D	95079.640	3.5	4P (3F)2F
133.0000	-4.607	8680.454	1.5	D6S (5D)4D	83868.450	2.5	4P (1F)2D	134.1324	-5.344	15844.650	4.5	D7 (5D)2G	90397.868	3.5	5P (5D)4D
133.0009	-4.810	23317.633	2.5	D5S2(7S)6S	98505.100	2.5	4SP(5D)4D	134.1381	-4.300	21308.040	1.5	D7 (5D)2D	95858.050	1.5	4SP(5P)4D
133.0379	-3.890	31999.048	3.5	D7 (5D)2F	107165.600	3.5	170DD	134.1395	-4.696	30388.542	4.5	D6S (3G)2G	104937.800	4.5	4SP(3I)4H
133.0405	-2.937	20830.582	2.5	D6S (3P)4F	95995.690	2.5	4SP(5P)4D	134.1528	-5.363	15844.650	4.5	D7 (5D)2G	90386.528	4.5	5P (5D)4F
133.0412	-2.116	23031.300	1.5	D6S (3F)4F	98196.000	1.5	4SP(5D)4F	134.1588	-2.918	18360.646	1.5	D7 (5D)2P	92899.200	2.5	4P (3F)4D
133.0413	-3.189	33466.463	4.5	D6S (1G)2G	108631.090	3.5	4SP(3G)4G	134.1710	-6.274	16369.360	3.5	D7 (5D)2G	90901.124	2.5	5P (5D)4P
133.0630	-7.218	977.053	0.5	D6S (5D)6D	76129.446	1.5	4P (1S)2P	134.1757	-4.188	20516.960	2.5	D7 (5D)2D	95046.100	2.5	4P (3F)2F
133.0768	-5.139	18886.780	0.5	D7 (5D)2P	94031.378	0.5	4SP(5D)6D	134.1790	-3.595	21711.917	3.5	D6S (3H)4H	96239.200	4.5	4SP(3G)2H
133.0952	-0.598	27314.922	3.5	D6S (3F)2F	102449.100	2.5	4SP(3D)2D	134.1881	-1.568	20516.960	2.5	D7 (5D)2D	95039.200	1.5	4P (3P)2F
133.1029	-4.883	33501.253	3.5	D6S (1G)2G	108631.090	3.5	4SP(3G)4G	134.2183	-3.504	21711.917	3.5	D6S (3H)4H	96217.420	3.5	4SP(5P)4D
133.1062	-3.238	33501.253	3.5	D6S (1G)2G	108629.250	2.5	4SP(3G)4G	134.2314	-3.074	33466.463	4.5	D6S (1G)2G	107964.700	4.5	210DD
133.1485	-3.949	33466.463	4.5	D6S (1G)2G	108570.560	4.5	4SP(3G)4G	134.2458	-4.645	13474.441	2.5	D7 (5D)4F	87964.650	1.5	4SP(5P)6D
133.1582	-3.019	13904.824	0.5	D7 (5D)4F	89003.460	0.5	4P (3P)2S	134.2635	-3.587	21581.638	4.5	D6S (3H)4H	96062.060	5.5	4SP(3G)2H
133.2024	-3.832	23317.633	2.5	D5S2(7S)6S	98391.330	3.5	4SP(5D)4D	134.2829	-2.697	26932.748	0.5	D6S (3P)4P	101402.380	0.5	4SP(5D)4P
133.2102	-2.431	33501.253	3.5	D6S (1G)2G	108570.560	4.5	4SP(3G)4G	134.2869	-5.209	21812.055	1.5	D6S (3P)4P	96279.490	2.5	4SP(3G)2F
133.2360	-3.283	32909.905	5.5	D6S (1I)2I	107964.700	4.5	210DD	134.2941	-3.037	33501.253	3.5	D6S (1G)2G	107964.700	4.5	210DD
133.2399	-8.097	862.613	1.5	D6S (5D)6D	75915.215	2.5	4P (3D)2F	134.3009	-4.421	21308.040	1.5	D7 (5D)2D	95767.700	0.5	4SP(5P)4D
133.2605	-7.396	22810.357	3.5	D6S (3F)4F	97815.350	4.5	4P (1G)2H	134.3076	-6.996	15844.650	4.5	D7 (5D)2G	90300.625	3.5	5P (5D)6F
133.2675	-4.792	23317.633	2.5	D5S2(7S)6S	98354.660	2.5	4SP(5D)4F	134.3333	-4.525	18886.780	0.5	D7 (5D)2P	93328.480	1.5	4P (3F)4F
133.2716	-4.014	18360.646	1.5	D7 (5D)2P	93955.360	2.5	4P (3F)4F	134.3576	-2.901	30388.542	4.5	D6S (3G)2G	104816.800	5.5	4SP(3I)4H
133.2845	-2.906	20830.582	2.5	D6S (3P)4F	95858.050	1.5	4SP(5P)4S	134.3722	-3.361	33466.463	4.5	D6S (1G)2G	107886.600	3.5	200DD
133.2966	-3.971	23317.633	2.5	D5S2(7S)6S	98338.280	1.5	4SP(5P)4S	134.3748	-4.613	25981.629	3.5	D6S (3G)4G	100400.360	2.5	4SP(3P)2D
133.3204	-2.017	33466.463	4.5	D6S (1G)2G	108483.870	5.5	4SP(3G)4G	134.4323	-3.341	22939.358	2.5	D6S (3F)4F	90780.621	1.5	5P (5D)4F
133.3204	-2.019	31999.048	3.5	D7 (5D)2F	107006.350	4.5	4SP(3G)4G	134.4335	-4.012	13673.185	1.5	D7 (5D)4P	88059.380	2.5	4SP(5P)6D
133.3841	-3.138	21308.040	1.5	D7 (5D)2D	96279.490	2.5	4SP(3G)2F	134.4635	-4.012	13673.185	1.5	D7 (5D)4P	88059.380	2.5	4SP(5P)6D
133.3905	-3.460	18360.646	1.5	D7 (5D)2P	93328.480	1.5	4P (3F)4F	134.4682	-4.072	15844.650	4.5	D7 (5D)2G	90211.700	5.5	4P (3F)4G
133.4159	-6.177	18886.780	0.5	D7 (5D)2P	93840.340	1.5	4SP(5D)6D	134.5082	-4.182	26055.423	2.5	D6S (3G)4G	100400.360	2.5	4SP(3P)2D
133.4473	-5.360	15844.650	4.5	D7 (5D)2G	90780.621	3.5	5P (5D)4F	134.5266	-3.061	18360.646	1.5	D7 (5D)2P	92695.374	2.5	4P (1G)2G
133.4521	-7.186	667.683	2.5	D6S (5D)6D	75600.931	3.5	4P (3D)2F	134.5382	-1.278	25428.784	5.5	D6S (3G)4G	99757.120	4.5	4P (1G)2G
133.5028	-4.771	2837.950	2.5	D7 (5D)4F	77742.730	2.5	4P (1D)2F	134.5986	-3.370	23031.300	1.5	D6S (3F)4F	97326.270	1.5	4SP(3P)2P
133.5409	-0.937	27620.412	2.5	D6S (3F)2F	102503.810	1.5	4SP(3D)2D	134.6133	-2.579	18360.646	1.5	D7 (5D)4P	87964.650	1.5	4SP(5P)6D
133.5499	-5.969	23317.633	2.5	D5S2(7S)6S	98196.000	1.5	4SP(5D)4F	134.6189	-2.576	21711.917	3.5	D6S (3H)4H	95995.690	2.5	4SP(5P)4D
133.5603	-2.592	33501.253	3.5	D6S (1G)2G	108373.800	3.5	260DD	134.6369	-2.773	20805.770	4.5	D7 (5D)2H	95079.640	3.5	4P (3F)2F
133.5753	-4.126	31999.048	3.5	D7 (5D)2F	106863.200	3.5	160DD	134.6448	-6.490	16369.360	3.5	D7 (5D)2G	90638.822	2.5	5P (5D)4D
133.6386	-1.803	27620.412	2.5	D6S (3F)2F	102449.100	2.5	4SP(3D)2D	134.6545	-5.378	30764.485	3.5	D6S (3G)2G	105028.600	3.5	4SP(3I)4H
133.6712	-1.969	21251.608	6.5	D6S (3H)4H	96062.060	5.5	4SP(3G)2H	134.6818	-7.205	20830.582	2.5	D6S (3P)4P	95079.640	3.5	4P (3F)2F
133.6740	-2.694	21430.359	5.5	D6S (3H)4H	96239.200	4.5	4SP(3G)2H	134.6869	-6.615	13673.185	1.5	D7 (5D)2D	94763.219	3.5	4SP(5G)6F
133.6924	-9.398	16369.360	3.5	D7 (5D)2G	91167.937	3.5	5P (5D)6P	134.7256	-4.820	25428.784	5.5	D6S (3G)4G	98653.220	4.5	4SP(3G)2G
133.7340	-2.520	21581.638	4.5	D6S (3H)4H	96356.960	3.5	4SP(3G)2F	134.7265	-2.137	15844.650	4.5	D7 (5D)2G	90067.347	4.5	5P (5D)6F
133.7386	-3.969	33466.463	4.5	D6S (1G)2G	108239.200	3.5	240DD	134.7297	-6.092	15844.650	4.5	D7 (5D)2G	94739.170	1.5	4SP(5P)4P
133.8060	-3.598	13474.441	2.5	D7 (5D)4F	88209.450	3.5	4SP(5P)6D	134.7306	-3.126	20516.960	2.5	D7 (5D)2D	94670.841	2.5	4P (3F)2D
133.8667	-6.527	16369.360	3.5	D7 (5D)2G	91070.547	2.5	5P (5D)4F	134.7427	-3.582	20830.582	2.5	D6S (3P)4P	95046.100	2.5	4P (3F)2F
133.8909	-9.177	21308.040	1.5	D7 (5D)2D	95995.690	2.5	4SP(5P)4D	134.7552	-2.786	15844.650	4.5	D7 (5D)2G	95039.200	1.5	4P (3P)2P
133.9449	-3.321	21581.638	4.5	D6S (3H)4H	96239.200	4.5	4SP(3G)2H	134.7743	-3.779	15844.650	4.5	D7 (5D)2G	90042.779	4.5	4P (3F)4G
133.9674	-3.276	21711.917	3.5	D6S (3H)4H	96356.960	3.5	4SP(3G)2F	134.8005	-1.970	20516.960	2.5	D7 (5D)2D	94700.660	2.5	4P (3F)2D
133.9744	-4.283	26932.748	0.5	D6S (3P)2P	101573.900	1.5	4SP(5D)4P	134.8006	-2.130	21812.055	1.5	D6S (3P)4P	95995.690	2.5	4SP(5P)4D

WL(NM)	LOGGf	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGf	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGf	EVEN E	J	LABEL	ODD E	J	LABEL
134.8194	-3.318	30764.485	3.5	D6S	(3G)2G	104937.800	4.5	48P	(31)4H	135.6868	-3.227	33466.463	4.5	D6S	(1G)2G	107165.600	3.5	170DD					
134.8288	-3.128	20516.960	2.5	D7	(5D)2D	94685.090	2.5	48P	(5D)6F	135.6889	-8.056	16369.360	3.5	D7	(5D)2G	90067.347	4.5	5P	(5D)6F	87602.250	1.5	4SP(5G)6F	
134.9021	-5.781	13474.411	2.5	D7	(5D)4F	87602.250	1.5	48P	(5D)6F	135.6899	-8.269	13904.824	0.5	D7	(5D)4F	107196.200	2.5	180DD					
134.9192	-8.019	16369.360	3.5	D7	(5D)2G	90487.810	2.5	5P	(5D)6F	135.6945	-3.971	33501.253	3.5	D6S	(1G)2G	94211.739	2.5	4SP(3F)4F					
134.9564	-7.197	13474.411	2.5	D7	(5D)4F	87572.431	2.5	48P	(5G)6F	135.6948	-3.036	20516.960	2.5	D7	(5D)2D	90042.779	4.5	4P	(3F)4G	9042.779	4.5	4P	(3F)4G
134.9592	-0.837	32909.905	5.5	D6S	(11)21	107006.350	4.5	48P	(31)2H	135.7342	-4.269	16369.360	3.5	D7	(5D)2G	99653.220	4.5	4SP(3G)2G					
134.9659	-2.788	18360.646	1.5	D7	(5D)2F	92453.460	0.5	4P	(3F)4F	135.7375	-3.297	23981.629	3.5	D6S	(3G)4G	107165.600	3.5	170DD					
134.9901	-4.611	15844.650	4.5	D7	(5D)2G	89924.175	5.5	5P	(5D)6F	135.7509	-3.702	33501.253	3.5	D6S	(1G)2G	92018.729	2.5	4SP(5D)6F					
135.0197	-6.450	13474.411	2.5	D7	(5D)4F	87537.652	3.5	48P	(5G)6F	135.7624	-6.431	18360.646	1.5	D7	(5D)2P	99633.200	3.5	4SP(3G)2G					
135.0260	-4.563	13904.824	0.5	D7	(5D)4F	87964.620	1.5	48P	(5F)6D	135.7702	-3.997	25981.629	3.5	D6S	(3G)4G	109780.000	1.5	280DD					
135.0512	-3.621	21812.055	1.5	D6S	(3F)4F	95858.050	1.5	48P	(5F)4D	135.7707	-3.970	36126.387	1.5	D6S	(3D)2D	106524.400	7.5	4SP(31)2K					
135.0517	-4.863	15844.650	4.5	D7	(5D)2G	89890.373	3.5	4P	(3F)4F	135.7796	-0.470	318875.646	6.5	D6S	(11)21	16528.600	3.5	4SP(31)4H					
135.0831	-6.886	16369.360	3.5	D7	(5D)2G	90397.868	3.5	5P	(5D)4D	135.7946	-3.282	31387.948	2.5	D6S	(3D)4D	105028.600	3.5	4SP(31)4H					
135.1038	-6.709	16369.360	3.5	D7	(5D)2G	90386.528	4.5	5P	(5D)4F	135.8042	-8.096	862.613	1.5	D6S	(5D)6D	74498.057	1.5	4P	(3D)2D	74498.057	1.5	4P	(3D)2D
135.1194	-4.206	23317.633	2.5	D5S2	(7S)6S	97326.270	1.5	48P	(3F)2P	135.8631	-8.913	0.000	4.5	D6S	(5D)6D	73603.500	5.5	4P	(11)2H	73603.500	5.5	4P	(11)2H
135.1904	-8.588	18360.646	1.5	D7	(5D)2D	92329.890	2.5	48P	(5G)4F	135.8659	-3.782	22637.205	4.5	D6S	(3F)4F	96239.200	4.5	4SP(3G)2H					
135.2032	-6.505	13673.185	1.5	D7	(5D)4F	87635.920	0.5	48P	(5F)6D	135.9311	-2.813	26170.181	5.5	D6S	(3H)2H	99757.120	4.5	4P	(1G)2G	99757.120	4.5	4P	(1G)2G
135.2129	-6.886	20805.770	4.5	D7	(5D)2H	94763.219	3.5	48P	(5F)6D	135.9393	-4.771	20516.960	2.5	D7	(5D)2P	96217.420	3.5	4SP(5F)4D					
135.2162	-3.643	21812.055	1.5	D6S	(3F)4F	95767.700	0.5	48P	(5F)4D	135.9521	-6.122	18360.646	1.5	D7	(5D)2P	91915.950	1.5	4SP(5D)6F					
135.2190	-2.874	18360.646	1.5	D7	(5D)2P	92314.758	0.5	5P	(5D)4F	135.9682	-3.140	22810.357	3.5	D6S	(3F)4F	96356.960	3.5	4SP(3G)2F					
135.2201	-3.566	27620.412	2.5	D6S	(3F)2F	101573.900	1.5	48P	(5D)4F	135.9704	-4.795	31483.176	3.5	D6S	(3D)4D	105028.600	3.5	4SP(31)4H					
135.2232	-3.983	25805.328	4.5	D6S	(3G)4G	99757.120	4.5	4P	(1G)2G	135.9806	-1.960	33466.463	4.5	D6S	(1G)2G	107006.350	4.5	4SP(31)2H					
135.2463	-7.325	667.683	2.5	D6S	(5D)6D	74606.841	2.5	4P	(3D)2D	136.0043	-3.221	36252.918	2.5	D6S	(3D)2D	109780.000	1.5	280DD					
135.2583	-4.880	20830.582	2.5	D6S	(3F)4F	94763.219	3.5	48P	(5G)6F	136.0155	-4.493	16369.360	3.5	D7	(5D)2G	98890.373	1.5	4P	(3F)4G	98890.373	1.5	4P	(3F)4G
135.2608	-6.305	16369.360	3.5	D7	(5D)2G	90300.625	3.5	5P	(5D)6F	136.0156	-9.539	977.053	0.5	D6S	(5D)6D	74498.057	1.5	4P	(3D)2D	74498.057	1.5	4P	(3D)2D
135.2933	-2.622	18360.646	1.5	D7	(5D)2P	87602.250	1.5	48P	(5G)6F	136.0450	-0.351	33501.253	3.5	D6S	(1G)2G	107006.350	4.5	4SP(31)2H					
135.3023	-1.199	20830.582	2.5	D6S	(3P)4F	94739.170	1.5	48P	(5F)4F	136.0581	-2.354	21581.638	4.5	D6S	(3H)4H	95079.640	3.5	4P	(3F)2F	95079.640	3.5	4P	(3F)2F
135.3194	-5.633	13673.185	1.5	D7	(5D)4F	87572.431	2.5	48P	(5G)6F	136.0728	-5.654	18360.646	1.5	D7	(5D)2P	91850.722	0.5	4SP(5D)6F					
135.3728	-2.411	20830.582	2.5	D6S	(3F)4F	94700.660	2.5	4P	(3F)2D	136.0858	-0.678	26170.181	5.5	D6S	(3H)2H	75915.215	2.5	4P	(3D)2F	75915.215	2.5	4P	(3D)2F
135.3823	-3.215	18360.646	1.5	D7	(5D)2P	92225.538	1.5	5P	(5D)2F	136.0862	-5.897	18360.646	1.5	D7	(5D)2P	91843.470	1.5	5P	(5D)6F	91843.470	1.5	5P	(5D)6F
135.3992	-2.892	18360.646	1.5	D7	(5D)2P	92216.320	1.5	4P	(3F)2D	136.1066	-5.075	18886.780	0.5	D7	(5D)2P	92358.610	1.5	4SP(5G)4F					
135.4013	-1.128	20830.582	2.5	D6S	(3P)4F	94685.090	2.5	48P	(5D)6F	136.1077	-6.844	20516.960	2.5	D7	(5D)2D	93988.170	2.5	4SP(5G)4G					
135.4104	-5.426	20340.300	5.5	D7	(5D)2H	94189.880	5.5	48P	(5G)4G	136.1091	-6.697	20516.960	2.5	D7	(5D)2D	93987.457	3.5	4SP(5D)6D					
135.4135	-4.637	25805.328	4.5	D6S	(3G)4G	99653.220	4.5	48P	(3G)2G	136.1116	-2.869	22810.357	3.5	D6S	(3F)4F	93987.457	3.5	4SP(3G)2F					
135.4456	-7.950	667.683	2.5	D6S	(5D)6D	74498.057	1.5	4P	(3D)2D	136.1285	-3.626	3117.461	1.5	D7	(5D)4F	76577.482	0.5	4P	(18)2P	76577.482	0.5	4P	(18)2P
135.4459	-2.401	25805.328	4.5	D6S	(3G)4G	99635.520	3.5	48P	(3G)2G	136.1366	-0.317	26352.766	4.5	D6S	(3H)2H	99808.400	3.5	4P	(1G)2G	99808.400	3.5	4P	(1G)2G
135.4522	-3.629	25981.629	3.5	D6S	(3G)4G	99808.400	3.5	4P	(1G)2G	136.1373	-0.360	13474.411	2.5	D7	(5D)4F	86929.649	3.5	4P	(3F)4D	86929.649	3.5	4P	(3F)4D
135.4747	-0.820	32875.646	6.5	D6S	(11)21	106690.170	5.5	48P	(31)2H	136.1504	-2.148	22409.852	0.5	D6S	(3P)4F	95858.050	1.5	4SP(5F)4P					
135.4863	-3.831	20340.300	5.5	D7	(5D)2H	94148.510	4.5	48P	(5G)4G	136.1820	-3.986	21308.040	1.5	D7	(5D)2D	94739.170	1.5	4SP(5P)4P					
135.5376	-1.667	32909.905	5.5	D6S	(11)21	106690.170	5.5	48P	(31)2H	136.1863	-3.957	22810.357	3.5	D6S	(3F)4F	96239.200	4.5	4SP(3G)2H					
135.5464	-2.442	25981.629	3.5	D6S	(3G)4G	99757.120	4.5	4P	(1G)2G	136.1879	-3.462	18886.780	0.5	D7	(5D)2P	92314.740	3.5	4SP(5F)4D					
135.5735	-3.966	18886.780	0.5	D7	(5D)2P	92647.510	1.5	4P	(3F)4D	136.2071	-2.552	22939.358	2.5	D6S	(3F)4F	96062.060	5.5	4SP(3G)2F					
135.5877	-2.428	26055.423	2.5	D6S	(3G)4G	99808.400	3.5	4P	(1G)2G	136.2267	-1.416	22810.357	3.5	D6S	(3F)4F	96217.420	3.5	4SP(5F)4D					
135.5909	-8.415	0.000	4.5	D6S	(5D)6D	73751.282	4.5	4P	(11)2G	136.2317	-2.741	26352.766	4.5	D6S	(3H)2H	99757.120	4.5	4P	(1G)2G	99757.120	4.5	4P	(1G)2G
135.6038	-7.970	862.613	1.5	D6S	(5D)6D	74606.841	2.5	4P	(3D)2D	136.2458	-2.799	33466.463	4.5	D6S	(1G)2G	106863.200	3.5	160DD					
135.6152	-3.317	21308.040	1.5	D7	(5D)2D	95046.100	2.5	4P	(3F)2F	136.2535	-2.634	21308.040	1.5	D7	(5D)2D	94700.660	2.5	4P	(3F)2D	94700.660	2.5	4P	(3F)2D
135.6279	-1.810	21308.040	1.5	D7	(5D)2D	95039.200	1.5	4P	(3F)2F	136.2693	-5.767	20805.770	4.5	D7	(5D)2H	94189.880	5.5	4SP(5G)4G					
135.6280	-4.971	13904.824	0.5	D7	(5D)4F	87635.920	0.5	48P	(5F														

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
136.3178	-3.839	16369.360	3.5	D7 (5D)2G	89727.342	2.5	4P (3F)4G	136.9696	-7.179	15844.650	4.5	D7 (5D)2G	8853.533	3.5	5P (5D)6D
136.3181	-2.418	22409.852	0.5	D6S (3P)4P	95767.700	0.5	4SP(5P)4D	136.9707	-1.191	13474.411	2.5	D7 (5D)4P	86482.750	3.5	4P (1F)2F
136.3461	-4.971	20805.770	4.5	D7 (5D)2H	94148.510	4.5	4SP(5G)4G	136.9856	-1.627	20830.582	2.5	D6S (3F)4P	90380.979	2.5	4SP(5D)6D
136.3510	-3.511	22939.358	2.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2F	136.9916	-9.504	30388.542	4.5	D6S (3G)2G	103385.730	3.5	4F(5D)3[3]
136.3535	-3.035	18886.780	0.5	D7 (5D)2P	92225.538	1.5	5P (5D)4P	137.0074	-4.390	21711.917	3.5	D6S (3H)4H	94700.660	2.5	4P (3F)2D
136.3621	-2.039	21711.917	3.5	D6S (3H)4H	95046.100	2.5	4P (3F)2F	137.0191	-1.430	25787.598	1.5	D6S (3F)2P	98770.140	1.5	4SP(5D)4D
136.3707	-3.890	18886.780	0.5	D7 (5D)2P	92216.320	2.5	4P (3F)2D	137.0367	-3.574	21711.917	3.5	D6S (3H)4H	94685.090	2.5	4SP(5D)6F
136.3821	-3.736	20516.960	2.5	D7 (5D)2D	93840.340	1.5	4SP(5D)6D	137.0413	-3.013	20516.960	2.5	D7 (5D)2D	93487.650	3.5	4P (3F)4F
136.3996	-3.928	20516.960	2.5	D7 (5D)2D	93830.979	2.5	4SP(5D)6D	137.0532	-2.450	23031.300	1.5	D6S (3F)4F	95995.690	2.5	4SP(3P)4D
136.4011	-9.813	30388.542	4.5	D6S (3G)2G	103701.720	4.5	4F(5D)2[15]	137.0536	-8.551	30388.542	4.5	D6S (3G)2G	103352.680	4.5	4F(5D)3[5]
136.4118	-3.674	32875.646	6.5	D6S (11)2I	106183.100	6.5	4SP(31)2K	137.0540	-6.281	18886.780	0.5	D7 (5D)2P	91850.722	0.5	4SP(5D)6F
136.4210	-8.126	30388.542	4.5	D6S (3G)2G	103691.000	5.5	4F(5D)2[15]	137.0579	-7.394	23317.633	2.5	D5S2 (7S)6S	961279.490	2.5	4SP(3G)2F
136.4248	-3.087	26352.766	4.5	D6S (3H)2H	90963.220	4.5	4SP(3G)2G	137.0676	-5.496	18886.780	0.5	D7 (5D)2P	91849.470	1.5	5P (5D)6P
136.4384	-1.093	13474.411	2.5	D7 (5D)4F	86767.577	2.5	4P (3P)4D	137.0762	-9.238	30388.542	4.5	D6S (3G)2G	103340.640	3.5	4F(5D)3[4]
136.4404	-9.074	30388.542	4.5	D6S (3G)2G	103680.640	4.5	4F(5D)2[14]	137.0857	-8.985	30764.485	3.5	D6S (3G)2G	103711.570	3.5	4F(5D)2[4]
136.4415	-3.653	2837.950	2.5	D7 (5D)4F	76129.446	1.5	4P (1S)2P	137.1022	-0.189	21251.608	6.5	D6S (3H)4H	94189.880	5.5	4SP(5G)4G
136.4475	-9.877	30388.542	4.5	D6S (3G)2G	103676.780	3.5	4F(5D)2[13]	137.1030	-8.467	30388.542	4.5	D6S (3G)2G	103326.410	4.5	4F(5D)3[4]
136.4556	-7.242	15844.650	4.5	D7 (5D)2G	89128.561	3.5	4SP(5P)6P	137.1039	-8.824	30388.542	4.5	D6S (3G)2G	103325.950	5.5	4F(5D)3[5]
136.4665	-2.664	26352.766	4.5	D6S (3H)2H	99635.520	3.5	4SP(3G)2G	137.1123	-1.553	21812.055	1.5	D6S (3F)4P	94739.170	1.5	4SP(3P)4P
136.4756	-0.539	32909.905	5.5	D6S (11)2I	106183.100	6.5	4SP(31)2K	137.1139	-0.823	22939.358	2.5	D6S (3F)4F	95858.050	1.5	4SP(5P)4D
136.4862	-3.897	20805.770	4.5	D7 (5D)2H	94073.240	3.5	4SP(5G)4G	137.1143	-5.032	25981.429	3.5	D6S (3G)4G	90898.710	3.5	4P (1G)2F
136.5150	-6.467	20805.770	4.5	D7 (5D)2H	94073.240	3.5	4SP(5D)6D	137.1148	-8.728	30764.485	3.5	D6S (3G)2G	103680.640	4.5	4F(5D)2[4]
136.5221	-2.491	23031.300	1.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2F	137.1673	-4.162	21308.040	1.5	D7 (5D)2D	94211.739	2.5	4SP(3P)4P
136.5325	-4.916	20830.582	2.5	D6S (3P)4P	94073.240	3.5	4SP(5G)4G	137.1746	-4.306	23317.633	2.5	D5S2 (7S)6S	96217.420	3.5	4SP(3P)4D
136.5485	-4.240	21812.055	1.5	D6S (3P)4F	95039.100	2.5	4P (3F)2F	137.1957	-2.849	21812.055	1.5	D6S (3F)4F	94700.660	2.5	4P (3P)2D
136.5614	-3.943	18182.055	1.5	D6S (3P)4F	95039.100	2.5	4P (3F)2F	137.2142	-7.878	15844.650	4.5	D7 (5D)2G	88723.400	4.5	5P (5D)6D
136.5678	-0.316	33466.463	4.5	D6S (1G)2G	106690.170	5.5	4SP(31)2H	137.2149	-4.248	20516.960	2.5	D7 (5D)2D	93395.360	2.5	4P (3F)4F
136.5745	-1.875	25787.598	1.5	D6S (3P)2P	99007.700	0.5	5P (5D)6P	137.2226	-1.470	13673.185	1.5	D7 (5D)4P	86547.490	2.5	4P (1F)2F
136.5850	-8.713	18360.646	1.5	D7 (5D)2P	91575.139	2.5	4SP(5D)6D	137.2250	-1.654	21812.055	1.5	D6S (3F)4F	94685.090	2.5	4SP(5D)6P
136.6022	-9.565	30764.485	3.5	D6S (3G)2G	103969.760	3.5	4F(5D)1[3]	137.2292	-0.969	13673.185	1.5	D7 (5D)4P	86543.974	1.5	4P (3P)4D
136.6394	-0.634	22810.357	3.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	137.2284	-2.765	25428.784	5.5	D6S (3G)4G	98278.770	5.5	4P (1G)2H
136.6462	-4.765	20805.770	4.5	D7 (5D)2H	93987.457	3.5	4SP(5D)6D	137.2284	-2.765	25428.784	5.5	D6S (3G)4G	98278.770	5.5	4P (1G)2H
136.6464	-4.532	21581.638	4.5	D6S (3H)4H	94763.219	3.5	4SP(5D)6P	137.2284	-2.765	25428.784	5.5	D6S (3G)4G	98278.770	5.5	4P (1G)2H
136.6665	-4.728	2430.097	3.5	D7 (5D)4F	75600.931	3.5	4P (3D)2F	137.2284	-2.765	25428.784	5.5	D6S (3G)4G	98278.770	5.5	4P (1G)2H
136.6720	-0.412	25428.784	5.5	D6S (3G)4G	98596.650	4.5	4SP(5D)4F	137.2284	-2.765	25428.784	5.5	D6S (3G)4G	98278.770	5.5	4P (1G)2H
136.6912	-3.887	20830.582	2.5	D6S (3P)4P	93988.170	2.5	4SP(5G)4G	137.3122	-1.412	23031.300	1.5	D6S (3F)4F	91999.746	0.5	5P (5D)4D
136.6926	-4.120	20830.582	2.5	D6S (3P)4P	93988.170	2.5	4SP(5G)4G	137.3122	-1.412	23031.300	1.5	D6S (3F)4F	91999.746	0.5	5P (5D)4D
136.7161	-1.501	20340.300	5.5	D7 (5D)2H	93484.580	4.5	4P (3F)4F	137.3409	-3.408	20516.960	2.5	D7 (5D)2D	93328.480	1.5	4P (3F)4F
136.7811	-8.480	30764.485	3.5	D6S (3G)2G	103873.990	4.5	4F(5D)1[4]	137.3409	-3.408	20516.960	2.5	D7 (5D)2D	93328.480	1.5	4P (3F)4F
136.8094	-0.709	13673.185	1.5	D7 (5D)4F	86767.577	2.5	4P (3P)4D	137.3718	-0.175	30388.542	4.5	D6S (3G)2G	103183.700	3.5	4SP(3D)2F
136.8113	-3.547	25805.328	4.5	D6S (3G)4G	98988.710	3.5	4P (1G)2F	137.4321	-2.868	21430.359	5.5	D6S (3H)4H	94189.880	5.5	4SP(5G)4G
136.8146	-6.158	0.000	4.5	D6S (5D)6D	73091.590	4.5	4P (1G)2G	137.4321	-2.868	21430.359	5.5	D6S (3H)4H	94189.880	5.5	4SP(5G)4G
136.8262	-0.558	27314.922	3.5	D6S (3F)2F	100400.360	2.5	4SP(3P)2D	137.4397	-8.506	16369.360	3.5	D7 (5D)2G	89128.561	3.5	4SP(3P)6P
136.8415	-5.477	2837.950	2.5	D7 (5D)4F	75915.215	2.5	4P (3D)2F	137.4410	-6.766	384.790	3.5	D6S (5D)6D	73143.288	3.5	4P (1G)2G
136.8455	-8.047	16369.360	3.5	D7 (5D)2G	89444.458	2.5	4SP(5P)6P	137.4569	-7.927	16369.360	3.5	D7 (5D)2G	89119.457	2.5	5P (5D)6D
136.8493	-1.832	13474.411	2.5	D7 (5D)4P	86547.490	2.5	4P (1F)2F	137.4827	-1.018	23031.300	1.5	D6S (3F)4F	95767.700	0.5	4SP(3P)4D
136.8559	-2.015	13474.411	2.5	D7 (5D)4P	86543.974	1.5	4P (3P)4D	137.4939	-0.533	25805.328	4.5	D6S (3G)4G	98596.650	4.5	4SP(5D)4F
136.8575	-1.200	21812.055	1.5	D6S (3P)4P	94880.740	0.5	4SP(5P)4D	137.5074	-4.393	21308.040	1.5	D7 (5D)2D	94031.378	0.5	4SP(5D)6D
136.8807	-1.302	22939.358	2.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	137.5172	-0.263	21430.359	5.5	D6S (3H)4H	94148.510	4.5	4SP(5G)4G
136.8901	-5.578	21711.917	3.5	D6S (3H)4H	94763.219	3.5	4SP(5D)6P	137.5185	-3.430	25787.598	1.5	D6S (3P)2P	98505.100	2.5	4SP(5D)4D
136.9125	-5.292	32317.633	2.5	D5S2 (7S)6S	96356.960	3.5	4SP(3G)2F	137.5220	-1.779	13673.185	1.5	D7 (5D)4P	86388.820	0.5	4P (3P)4D
136.9270	-7.585	30388.542	4.5	D6S (3G)2G	103420.160	5.5	4F(5D)3[16]	137.5237	-4.345	26055.423	2.5	D6S (3G)4G	98770.140	1.5	4SP(3P)4D
136.9316	-7.957	18886.780	0.5	D7 (5D)2P	91915.950	1.5	4SP(5D)6F	137.5329	-3.986	18360.646	1.5	D7 (5D)2P	91070.547	2.5	5P (5D)4F
136.9360	-5.095	0.000	4.5	D6S (5D)6D	73016.147	3.5	4P (1G)2F	137.5387	-6.251	384.790	3.5	D6S (5D)6D	73143.288	3.5	4P (1G)2G
136.9638	-4.142	3117.461	1.5	D7 (5D)4F	76129.446	1.5	4P (1S)2P	137.5750	-6.260	18360.646	1.5	D7 (5D)2P	91048.256	1.5	5P (5D)4D
136.9680	-1.999	20830.582	2.5	D6S (3P)4P	93840.340	1.5	4SP(5D)6D	137.5859	-2.052	20805.770	4.5	D7 (5D)2H	93487.650	3.5	4P (3F)4F
								137.5892	-6.082	21308.040	1.5	D7 (5D)2D	93988.170	2.5	4SP(5G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
137.5917	-3.421	20805.770	4.5	D7 (5D)2H	93484.580	4.5	4P (3F)4F	138.0268	-2.070	26055.423	2.5	D6S (3G)4G	98505.100	2.5	4SP(5D)4D	
137.5931	-4.382	23317.633	2.5	D5S2(7S)6S	95995.690	2.5	4SP(5P)4D	138.0406	-4.278	22637.205	4.5	D6S (3F)4F	95079.640	3.5	4P (3F)2F	
137.6082	-6.653	384.790	3.5	D6S (5D)6D	73054.881	2.5	4P (1G)2F	138.0411	-0.592	27314.922	3.5	D6S (3F)2F	99757.120	4.5	4P (1G)2G	
137.6329	-3.072	20830.582	2.5	D6S (3P)4F	93487.650	3.5	4P (3F)4F	138.0518	-3.146	21711.917	3.5	D6S (3H)4H	94148.510	4.5	4SP(5G)4G	
137.6332	-4.849	36252.918	2.5	D6S (3D)2D	108906.640	3.5	4SP(3G)4H	138.0711	-2.030	26170.181	5.5	D6S (3H)2H	98596.650	4.5	4SP(5D)4F	
137.6394	-3.371	36126.387	1.5	D6S (3D)2D	108780.000	1.5	270DD	138.0785	-3.908	25428.784	5.5	D6S (3G)4G	97381.350	4.5	4P (1G)2H	
137.6427	-5.230	0.000	4.5	D6S (5D)6D	72651.876	3.5	4P (3D)4D	138.0849	-1.878	30764.485	3.5	D6S (3G)2G	103183.700	3.5	4SP(3D)2F	
137.6450	-5.865	0.000	4.5	D6S (5D)6D	72650.658	4.5	4P (3D)4F	138.1030	-3.797	25981.629	3.5	D6S (3G)4G	98391.330	3.5	4SP(5D)4D	
137.6668	-1.038	13904.824	0.5	D7 (5D)4F	86543.974	1.5	4P (3P)4D	138.1055	-2.773	25787.598	1.5	D6S (3P)2P	98196.000	1.5	4SP(5D)4F	
137.6816	-6.401	384.790	3.5	D6S (5D)6D	73016.147	3.5	4P (1G)2F	138.1104	-4.124	21581.638	4.5	D6S (3H)4H	93987.457	3.5	4SP(5D)6D	
137.6854	-3.037	22409.852	0.5	D6S (3P)4F	95039.200	1.5	4P (3P)2P	138.1221	-1.318	21812.055	1.5	D6S (3F)4F	94211.739	2.5	4SP(5P)4F	
137.6891	-3.427	21430.359	5.5	D6S (3H)4H	94057.773	4.5	4SP(5D)6D	138.1460	-7.687	667.683	2.5	D6S (5D)6D	73054.881	2.5	4P (1G)2F	
137.7008	-9.453	30764.485	3.5	D6S (3G)2G	103385.730	3.5	4F(5D)3I3I	138.1554	-2.879	20516.960	2.5	D7 (5D)2D	92899.200	2.5	4P (3F)4D	
137.7126	-3.682	25981.629	3.5	D6S (3G)4G	98596.650	4.5	4SP(5D)4F	138.1632	-4.503	36252.918	2.5	D6S (3D)2D	108629.250	2.5	4SP(3G)4G	
137.7165	-4.119	20516.960	2.5	D7 (5D)2D	93129.900	3.5	4P (3F)4D	138.1667	-4.207	36252.918	2.5	D6S (3D)2D	108629.250	2.5	4SP(3G)4G	
137.7254	-2.935	21581.638	4.5	D6S (3H)4H	94189.880	5.5	4SP(5G)4G	138.1730	-0.884	25981.629	3.5	D6S (3G)4G	98309.460	3.5	4SP(5D)4F	
137.7404	-8.889	30764.485	3.5	D6S (3G)2G	103364.840	2.5	4F(5D)3I3I	138.1887	-8.000	15844.650	4.5	D7 (5D)2G	88259.450	3.5	4SP(5P)6D	
137.7429	-2.601	31368.450	0.5	D6S (3D)4D	103967.490	0.5	4SP(3P)2S	138.1954	-2.165	21711.917	3.5	D6S (3H)4H	94073.240	3.5	4SP(5G)4G	
137.7634	-8.780	30764.485	3.5	D6S (3G)2G	103352.680	4.5	4SP(5D)4D	138.2093	-9.675	16369.360	3.5	D7 (5D)2G	88723.400	4.5	5P (5D)6D	
137.7676	-2.265	25805.328	4.5	D6S (3G)2G	103352.680	4.5	4SP(5D)4D	138.2131	-5.863	0.000	4.5	D6S (5D)6D	72352.024	3.5	4P (3D)4F	
137.7863	-8.503	30764.485	3.5	D6S (3G)2G	103364.840	2.5	4F(5D)3I3I	138.2199	-5.470	667.683	2.5	D6S (5D)6D	73016.147	3.5	4P (1G)2F	
137.7987	-0.299	30764.485	3.5	D6S (3G)2G	103334.100	2.5	4SP(3D)2F	138.2249	-6.470	21711.917	3.5	D6S (3H)4H	94057.773	4.5	4SP(5D)6D	
137.8039	-2.262	21581.638	4.5	D6S (3H)4H	94148.510	4.5	4SP(5G)4G	138.2394	-1.680	27314.922	3.5	D6S (3F)2F	99653.220	4.5	4SP(5D)4D	
137.8079	-4.103	20830.582	2.5	D6S (3P)4F	93395.360	2.5	4P (3F)4F	138.2439	-6.475	26035.423	2.5	D6S (3F)2F	98391.330	3.5	4SP(5D)4D	
137.8114	-3.512	30388.542	4.5	D6S (3G)2G	102951.500	4.5	4SP(3I)4I	138.2565	-1.302	22409.852	0.5	D6S (3P)4F	94739.170	1.5	4SP(5P)4F	
137.8133	-8.446	30764.485	3.5	D6S (3G)2G	103326.410	4.5	4F(5D)3I3I	138.2619	-6.908	862.613	1.5	D6S (5D)6D	73189.110	1.5	4P (3D)2P	
137.8280	-1.566	25981.629	3.5	D6S (3G)4G	98535.850	3.5	4SP(5D)4F	138.2654	-7.391	862.613	1.5	D6S (5D)6D	73189.110	1.5	4P (3D)2P	
137.8290	-8.930	30388.542	4.5	D6S (3G)2G	102942.200	3.5	4F(5D)4I3I	138.2664	-2.477	20805.770	4.5	D7 (5D)2H	93129.900	3.5	4P (3F)4D	
137.8309	-3.644	37227.326	0.5	D6S (1S)2S	109780.000	1.5	280DD	138.2703	-4.573	18886.780	0.5	D7 (5D)2P	91208.887	1.5	5P (5D)4F	
137.8347	-1.310	25787.598	1.5	D6S (3P)2P	98338.280	1.5	4SP(5P)4S	138.2732	-2.235	17834.922	3.5	D6S (3F)2F	99635.520	3.5	4SP(3G)2G	
137.8437	-2.438	26352.766	4.5	D6S (3H)2H	98898.710	3.5	4P (1G)2F	138.2878	-4.274	18886.780	0.5	D7 (5D)2P	91199.746	0.5	5P (5D)4D	
137.8541	-5.197	18360.646	1.5	D7 (5D)2P	90901.124	2.5	5P (5D)4F	138.3139	-3.273	20830.582	2.5	D6S (3P)4F	93129.900	3.5	4P (3F)4D	
137.8542	-5.026	23317.633	2.5	D5S2(7S)6S	95858.050	1.5	4SP(5P)4D	138.3140	-1.873	26035.423	2.5	D6S (3G)4G	98354.660	2.5	4SP(5D)4F	
137.8583	-3.639	18360.646	1.5	D7 (5D)2P	90898.873	1.5	4P (3P)4F	138.3364	-7.925	18360.646	1.5	D7 (5D)2P	90648.217	0.5	5P (5D)6F	
137.8696	-6.937	21308.040	1.5	D7 (5D)2D	93840.340	1.5	4SP(5D)6D	138.3454	-2.752	26035.423	2.5	D6S (3G)4G	98338.280	1.5	4SP(3F)4S	
137.8795	-2.968	36252.918	2.5	D6S (3D)2D	108780.000	1.5	270DD	138.3543	-3.750	18360.646	1.5	D7 (5D)2P	90638.822	2.5	5P (5D)4D	
137.8864	-1.025	25981.629	3.5	D6S (3G)4G	98505.100	2.5	4SP(5D)6D	138.3580	-0.491	21711.917	3.5	D6S (3H)4H	93988.170	2.5	4SP(5G)4G	
137.8874	-4.946	21308.040	1.5	D7 (5D)2D	93850.979	2.5	4SP(5D)6D	138.3594	-6.468	21711.917	3.5	D6S (3H)4H	93987.457	3.5	4SP(5D)6D	
137.9218	-7.293	30388.542	4.5	D6S (3G)2G	102893.380	5.5	4F(5D)4I6I	138.3714	-4.758	22810.357	1.5	D7 (5D)2P	90629.902	1.5	4P (3F)4S	
137.9256	-3.665	36126.387	1.5	D6S (3P)4F	108629.250	2.5	4SP(3G)4G	138.3756	-2.366	384.790	3.5	D6S (5D)6D	72651.876	3.5	4P (3D)4D	
137.9314	-3.447	21711.917	3.5	D6S (3H)4H	94211.739	2.5	4SP(5P)4F	138.3779	-5.561	384.790	3.5	D6S (5D)6D	72650.658	4.5	4P (3D)4F	
137.9337	-8.825	30388.542	4.5	D6S (3G)2G	102887.120	3.5	4F(5D)4I4I	138.3858	-6.571	0.000	4.5	D6S (5D)6D	72650.658	4.5	4P (3D)4F	
137.9350	-4.869	20830.582	2.5	D6S (3P)4F	93328.480	1.5	4P (3F)4F	138.4176	-9.130	384.790	3.5	D6S (5D)6D	72650.658	4.5	4P (3D)4F	
137.9428	-7.915	30388.542	4.5	D6S (3G)2G	102882.370	4.5	4F(5D)4I4I	138.4250	-3.106	22810.357	1.5	D7 (5D)2P	90629.902	1.5	4P (3F)4S	
137.9434	-1.686	27314.922	3.5	D6S (3F)2F	99808.400	3.5	4SP(1G)2G	138.4376	-5.199	384.790	3.5	D6S (5D)6D	72650.658	4.5	4P (3D)4F	
137.9470	-0.364	21581.638	4.5	D6S (3H)4H	94073.240	3.5	4SP(5G)4G	138.4412	-4.770	18360.646	1.5	D7 (5D)2P	90593.497	1.5	5P (5D)6F	
137.9612	-8.312	13904.824	0.5	D7 (5D)4F	86388.820	0.5	4P (3P)6D	138.4671	-1.689	21812.055	1.5	D6S (3F)4F	94031.378	0.5	4SP(5D)6D	
137.9683	-3.322	26055.423	2.5	D6S (3G)4G	98535.850	3.5	4SP(5D)4F	138.4810	-5.992	977.053	0.5	D6S (5D)6D	73189.110	1.5	4P (3D)2P	
137.9713	-2.698	18360.646	1.5	D7 (5D)2P	90839.480	0.5	4P (3P)4F	138.4845	-6.286	977.053	0.5	D6S (5D)6D	73189.110	1.5	4P (3D)2P	
137.9765	-6.224	21581.638	4.5	D6S (3H)4H	94057.773	4.5	4SP(5D)6D	138.5190	-6.415	862.613	1.5	D6S (5D)6D	73054.881	2.5	4P (1G)2F	
137.9775	-5.919	667.683	2.5	D6S (5D)6D	73143.288	3.5	4P (1G)2G	138.5272	-0.767	27620.412	2.5	D6S (3F)2F	99808.400	3.5	4P (1G)2G	
137.9816	-4.345	25805.328	4.5	D6S (3G)4G	98278.770	5.5	4P (1G)2H	138.5279	-8.338	30764.485	3.5	D6S (3G)2G	102952.120	2.5	4F(5D)4I3I	
137.9864	-2.050	22409.852	0.5	D6S (3P)4F	94880.740	0.5	4SP(5P)4F	138.5291	-3.534	20764.485	3.5	D6S (3G)2G	102951.500	4.5	4SP(3I)4I	
138.0018	-8.243	30388.542	4.5	D6S (3G)2G	102851.360	4.5	4F(5D)4I5I	138.5366	-2.867	26352.766	4.5	D6S (3H)2H	98535.850	3.5	4SP(5D)4F	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL		
138.5456	-2.594	20516.960	2.5	D7 (5D)2D	92695.374	2.5	4P (3P)2D	139.1310	-2.175	22810.357	3.5	D6S (3F)4F	94685.090	2.5	4SP(5D)6P		
138.5469	-7.762	30764.485	3.5	D6S (3G)2G	102942.200	3.5	4F(5D)4[3]	139.1407	-4.963	25981.629	3.5	D6S (3G)4G	97851.350	4.5	4P (1G)2H		
138.5488	-4.462	2430.097	3.5	D7 (5D)4F	74606.841	2.5	4P (3D)2D	139.1502	-4.706	20830.982	2.5	D6S (3F)4P	92695.374	2.5	4P (3P)2D		
138.5500	-5.235	1812.055	1.5	D6S (3P)4P	93988.170	2.5	4SP(5G)4G	139.1655	-5.195	667.683	2.5	D6S (5D)6D	72524.566	1.5	4P (3D)4D		
138.5781	-4.226	18886.780	0.5	D7 (5D)2P	91048.256	1.5	5P (5D)4P	139.1716	-6.736	384.790	3.5	D6S (5D)6D	72238.513	2.5	4P (3D)4F		
138.6182	-0.789	26055.423	2.5	D6S (3G)4G	98196.000	1.5	4SP(5D)4F	139.1771	-3.773	31483.176	3.5	D6S (3D)4D	103334.100	2.5	4SP(3D)2F		
138.6188	-2.683	22939.358	2.5	D6S (3F)4F	95079.640	3.5	4P (3F)2F	139.1799	-3.670	23031.300	1.5	D6S (3F)4F	94880.740	0.5	4SP(3P)4P		
138.6375	-3.190	20516.960	2.5	D7 (5D)2D	92647.510	1.5	4P (3F)4P	139.1950	-2.660	20516.960	2.5	D7 (5D)2D	92358.610	1.5	4SP(5G)4F		
138.6378	-9.050	0.000	4.5	D6S (5D)6D	72130.390	4.5	4P (1G)2H	139.1980	-8.378	16369.360	3.5	D7 (5D)2G	88209.450	3.5	4SP(2P)6D		
138.6440	-5.334	18360.646	1.5	D7 (5D)2P	90487.810	2.5	5P (5D)6P	139.2033	-2.515	26932.748	0.5	D6S (3P)2P	98770.140	1.5	4SP(3D)4D		
138.6462	-2.277	22637.205	4.5	D6S (3F)4F	94763.219	3.5	4SP(5D)6P	139.2149	-0.252	20340.300	5.5	D7 (5D)2H	92171.716	4.5	4P (3P)2G		
138.6527	-7.768	30764.485	3.5	D6S (3G)2G	102887.120	3.5	4F(5D)4[4]	139.2248	-5.280	20340.300	5.5	D7 (5D)2H	92166.600	5.5	4SP(5G)4H		
138.6561	-4.671	36252.918	2.5	D6S (3D)4D	108373.800	3.5	2600D	139.2295	-4.549	22939.358	2.5	D6S (3F)4F	94763.219	3.5	4SP(3D)6P		
138.6596	-4.500	21711.917	3.5	D6S (3H)4H	93830.979	2.5	4SP(5D)6D	139.2429	-6.207	20830.582	2.5	D6S (3P)4P	92647.510	1.5	4P (3F)4D		
138.6601	-3.855	36252.918	2.5	D6S (3D)2D	108371.700	1.5	2500D	139.2507	-4.441	20516.960	2.5	D7 (5D)2D	92329.890	2.5	4SP(5G)4F		
138.6619	-7.472	30764.485	3.5	D6S (3G)2G	102882.370	4.5	4F(5D)4[4]	139.2761	-2.218	22939.358	2.5	D6S (3F)4F	94739.170	1.5	4SP(5P)4P		
138.6797	-1.891	26170.181	5.5	D6S (3H)2H	98278.770	5.5	4P (1G)2H	139.2817	-0.458	20805.770	4.5	D7 (5D)2H	92602.703	3.5	4P (3F)2G		
138.6833	-3.596	22939.358	2.5	D6S (3F)4F	95046.100	2.5	4P (3F)2F	139.3076	-4.027	32875.646	6.5	D6S (11)2I	104659.260	6.5	4SP(31)4H		
138.6966	-4.223	22939.358	2.5	D6S (3F)4F	95039.200	1.5	4P (3P)2P	139.3214	-1.294	20340.300	5.5	D7 (5D)2H	92116.780	4.5	4SP(5G)4H		
138.7016	-5.034	1872.567	4.5	D7 (5D)4F	73969.767	5.5	4P (11)2I	139.3229	-3.695	21711.917	3.5	D6S (3H)4H	93487.650	3.5	4P (3F)4F		
138.7120	-8.137	20340.300	5.5	D7 (5D)2H	92432.136	5.5	4SP(5D)6F	139.3288	-4.157	21711.917	3.5	D6S (3H)4H	93484.580	4.5	4SP(5G)4H		
138.7207	-3.193	21308.040	1.5	D7 (5D)2D	93935.360	2.5	4P (3F)4F	139.3299	-3.913	20830.582	2.5	D6S (3P)4P	92602.703	3.5	4P (3F)2G		
138.7215	-7.892	30764.485	3.5	D6S (3G)2G	102851.360	4.5	4F(5D)4[5]	139.3421	-6.261	339.3421	6.261	339.3421	6.261	339.3421	6.261	339.3421	6.261
138.7219	-0.995	20340.300	5.5	D7 (5D)2D	92426.980	4.5	4SP(5G)4F	139.3467	-6.464	20516.960	2.5	D7 (5D)4F	74606.841	2.5	4P (3D)2D		
138.7237	-3.841	20516.960	2.5	D7 (5D)2D	92602.703	3.5	4P (3F)2G	139.3495	-6.602	23317.633	2.5	D5S2(78)6S	95079.640	3.5	4P (3F)2F		
138.7445	-1.707	26932.748	0.5	D6S (3P)2P	99007.700	0.5	4SP(5D)4D	139.3506	-7.229	18886.780	0.5	D7 (5D)2P	90648.217	0.5	5P (3D)6F		
138.7566	-4.528	20830.582	2.5	D6S (3P)4P	92899.200	2.5	4P (3F)4D	139.3509	-4.089	22939.358	2.5	D6S (3F)4F	94700.660	2.5	4P (3F)2D		
138.7844	-3.747	21430.359	5.5	D6S (3H)4H	93484.580	4.5	4P (3F)4F	139.3589	-3.272	20516.960	2.5	D7 (5D)2D	92274.120	2.5	4P (3P)4P		
138.8002	-3.411	25805.328	4.5	D6S (3G)4G	97851.350	4.5	4P (1G)2H	139.3595	-5.522	862.613	1.5	D6S (5D)6D	72619.490	2.5	4P (3D)4D		
138.8145	-3.445	26352.766	4.5	D6S (3H)2H	98391.330	3.5	4SP(5D)4D	139.3741	-4.942	32909.905	5.5	D6S (11)2I	104659.260	6.5	4SP(31)4H		
138.8343	-2.230	21812.055	1.5	D6S (3P)4P	93840.340	1.5	4SP(5D)6D	139.3811	-2.890	22939.358	2.5	D6S (3F)4F	94685.090	2.5	4SP(5D)6P		
138.8351	-3.216	32909.905	5.5	D6S (11)2I	104937.800	4.5	4SP(31)4H	139.3814	-7.516	384.790	3.5	D6S (5D)6D	72130.390	4.5	4P (1G)2H		
138.8495	-3.431	21308.040	1.5	D7 (5D)2D	93328.480	1.5	4P (3F)4F	139.3862	-3.022	18886.780	0.5	D7 (5D)2P	90629.902	1.5	4P (3P)4F		
138.8524	-2.193	21812.055	1.5	D6S (3P)4P	93830.979	2.5	4SP(5D)6D	139.4099	-5.385	1872.567	4.5	D7 (5D)4F	73603.500	5.5	4P (11)2H		
138.8598	-1.188	27620.412	2.5	D6S (3F)2F	99635.520	3.5	4SP(3G)2G	139.4147	-6.245	23317.633	2.5	D5S2(78)6S	95046.100	2.5	4P (3F)2F		
138.8603	-2.487	23031.300	1.5	D6S (3F)4F	95046.100	2.5	4P (3F)2F	139.4281	-6.229	23317.633	2.5	D5S2(78)6S	95039.200	1.5	4P (3P)2P		
138.8656	-4.064	18886.780	0.5	D7 (5D)2P	90898.873	1.5	4P (3P)4P	139.4533	-4.351	20516.960	2.5	D7 (5D)2D	92225.538	1.5	5P (5D)4P		
138.8737	-4.262	23031.300	1.5	D6S (3F)4F	95039.200	1.5	4P (3P)2P	139.4547	-2.714	23031.300	1.5	D6S (3F)4F	94739.170	1.5	4SP(5P)4P		
138.8808	-3.999	36126.387	1.5	D6S (3D)2D	108130.600	2.5	2200D	139.4569	-5.574	18886.780	0.5	D7 (5D)2P	90593.497	1.5	5P (5D)6F		
138.9154	-3.515	36252.918	2.5	D6S (3D)2D	108239.200	3.5	2400D	139.4690	-3.657	31483.176	3.5	D6S (3D)4D	103183.700	3.5	4SP(3D)2F		
138.9194	-6.454	667.683	2.5	D6S (5D)6D	72651.876	3.5	4P (3D)4D	139.4713	-2.900	20516.960	2.5	D7 (5D)2D	92216.320	1.5	4P (3P)2D		
138.9474	-3.797	31364.440	1.5	D6S (3D)4D	103334.100	2.5	4SP(3D)2F	139.4836	-7.326	15844.650	4.5	D7 (5D)2G	87537.652	3.5	4SP(5G)6F		
138.9521	-6.769	384.790	3.5	D6S (5D)6D	72352.024	3.5	4P (3D)4F	139.4999	-4.547	30764.485	3.5	D6S (3P)2G	102449.100	2.5	4SP(3D)2D		
138.9661	-5.144	20340.300	5.5	D7 (5D)2H	92300.277	4.5	4SP(5D)6F	139.5005	-5.427	667.683	2.5	D6S (5D)6D	72352.024	3.5	4P (3D)4F		
138.9799	-3.226	22810.357	3.5	D6S (3F)4F	94763.219	3.5	4SP(5D)6P	139.5022	-4.125	21711.917	3.5	D6S (3H)4H	93395.360	2.5	4P (3F)4F		
138.9802	-3.593	18886.780	0.5	D7 (5D)2P	90839.480	0.5	4P (3P)4P	139.5067	-3.046	26170.181	5.5	D6S (3P)2H	97851.350	4.5	4P (1G)2H		
138.9819	-6.072	667.683	2.5	D6S (5D)6D	72619.490	2.5	4P (3D)4D	139.5296	-4.474	23031.300	1.5	D6S (3F)4F	94700.660	2.5	4P (3P)2D		
138.9820	-5.221	30388.542	4.5	D6S (3G)2G	102340.300	5.5	4SP(31)4H	139.5441	-5.520	862.613	1.5	D6S (5D)6D	72524.566	1.5	4P (3D)4D		
138.9928	-4.427	31387.948	2.5	D6S (3D)4D	103334.100	2.5	4SP(3D)2F	139.5477	-4.471	2837.950	2.5	D7 (5D)4F	74498.057	1.5	4P (3D)2D		
139.0025	-3.004	32875.646	6.5	D6S (11)2I	104819.600	5.5	4SP(31)4H	139.5600	-3.678	23031.300	1.5	D6S (3F)4F	94685.090	2.5	4SP(5D)6P		
139.0318	-3.925	26352.766	4.5	D6S (3H)2H	98278.770	5.5	4P (1G)2H	139.5991	-4.307	36252.918	2.5	D6S (3D)2D	107886.600	3.5	2000D		
139.0629	-5.642	20340.300	5.5	D7 (5D)2H	92250.210	6.5	4SP(5G)4H	139.6119	-7.200	15844.650	4.5	D7 (5D)2G	87471.765	4.5	4SP(5G)6F		
139.0704	-4.034	21581.638	4.5	D6S (3H)4H	93487.650	3.5	4P (3F)4F	139.6228	-2.499	22409.850	4.5	D7 (5D)2H	92403.136	5.5	4SP(5D)6F		
139.0764	-3.171	21581.638	4.5	D6S (3H)4H	93484.580	4.5	4P (3F)4F	139.6282	-2.499	22409.850	4.5	D7 (5D)2H	92403.136	5.5	4SP(5D)6F		
139.1008	-3.841	22810.357	3.5	D6S (3F)4F	94700.660	2.5	4P (3F)2D	139.6234	-3.040	20805.770	4.5	D7 (5D)2H	92426.980	4.5	4SP(5G)4F		
139.1232	-4.906	1872.567	4.5	D7 (5D)4F	73751.282	4.5	4P (11)2H	139.6821	-4.420	21308.040	1.5	D7 (5D)2D	109780.000	1.5	2800D		
139.1252	-2.270	36252.918	2.5	D6S (3D)2D	108130.600	2.5	2200D	139.6964	-2.647	27314.942	3.5	D6S (3F)2F	98898.710	3.5	4P (1G)2F		

139.6974	-3.166	12812.055	1.5	D6S	(3P)4P	93395.360	2.5	D6S	(3F)4F	140.2061	-4.655	20830.582	2.5	D6S	(3F)4P	92154.165	3.5	4SP(5D)6F
139.7040	-6.026	384.790	3.5	D6S	(5D)6D	71964.710	2.5	D7	(3D)4P	140.2108	-5.048	2430.097	3.5	D7	(5D)4F	73751.282	4.5	4P (11)2H
139.7189	-7.045	20516.960	2.5	D7	(5D)2D	92089.260	3.5	4SP(5G)4H	140.2308	-7.186	20805.770	4.5	D7	(5D)2H	92116.780	4.5	4SP(5G)4H	
139.7217	-6.793	667.683	2.5	D6S	(5D)6D	72238.513	2.5	4P (3D)4H	140.2399	-7.054	862.613	1.5	D6S	(5D)6D	72168.998	1.5	4P (3D)4P	
139.7290	-5.965	862.163	1.5	D6S	(5D)6D	72429.711	0.5	4P (3D)4D	140.2583	-5.330	667.683	2.5	D6S	(5D)6D	71964.710	2.5	4P (3D)4P	
139.7321	-4.482	38214.507	1.5	D6S	(1D)2D	109780.000	1.5	280DD	140.2849	-2.428	20805.770	4.5	D7	(5D)2H	92089.260	3.5	4SP(5G)4H	
139.7572	-0.771	22637.205	4.5	D6S	(3F)4F	94189.880	5.5	4P(3F)4D	140.2952	-3.016	27620.412	2.5	D6S	(3F)2F	98898.710	3.5	4P (1G)2F	
139.7658	-6.032	21581.638	4.5	D6S	(3H)4H	93129.900	3.5	4P (3F)4D	140.3068	-3.750	27314.922	3.5	D6S	(3F)2F	94211.739	2.5	4SP(5P)4P	
139.7845	-0.692	977.053	0.5	D6S	(5D)6D	72524.566	1.5	4P (3D)4D	140.3098	-3.715	26035.423	2.5	D6S	(3G)4G	97326.270	1.5	4SP(3P)2P	
139.8053	-5.514	20830.582	2.5	D6S	(3P)4P	92358.610	1.5	4SP(5G)4F	140.3101	-2.083	1872.567	4.5	D7	(5D)4G	73143.288	3.5	4P (1G)2G	
139.8166	-3.762	31811.822	2.5	D7	(5D)2F	103334.100	2.5	4SP(3D)2F	140.3208	-4.724	18360.646	1.5	D7	(5D)2P	89625.940	1.5	4SP(5P)6P	
139.8280	-4.873	21812.055	1.5	D6S	(3P)4P	93328.480	1.5	4P (3F)4F	140.3255	-1.208	22810.357	3.5	D6S	(3F)4F	94073.240	3.5	4SP(5D)4G	
139.8380	-1.221	22637.205	4.5	D6S	(3F)4F	94148.510	4.5	4SP(5G)4G	140.3338	-5.674	20830.582	2.5	D6S	(3P)4P	92089.260	3.5	4SP(5G)4H	
139.8567	-8.404	20516.960	2.5	D7	(5D)2D	92018.729	2.5	4SP(5D)6F	140.3560	-4.095	22810.357	3.5	D6S	(3F)4F	94057.773	4.5	4SP(5D)6D	
139.8576	-6.944	667.683	2.5	D6S	(5D)6D	72168.998	1.5	4P (3D)4F	140.3786	-7.108	977.053	0.5	D6S	(5D)6D	72212.978	0.5	4P (3D)4P	
139.8615	-5.800	20830.582	2.5	D6S	(3P)4P	92329.890	2.5	4SP(5G)4F	140.4082	-3.843	27314.922	3.5	D6S	(3F)2F	98535.850	3.5	4SP(5D)4F	
139.8629	-1.865	26352.766	4.5	D6S	(3H)2H	97851.350	4.5	4P (1G)2H	140.4119	-2.715	1872.567	4.5	D7	(5D)4F	73091.590	4.5	4P (1G)2G	
139.8673	-7.019	15844.650	4.5	D7	(5D)2G	87340.983	5.5	4SP(5G)6F	140.4434	-7.559	16369.360	3.5	D7	(5D)2G	87572.431	2.5	4SP(5G)6F	
139.8709	-6.610	20805.770	4.5	D7	(5D)2H	92300.277	4.5	4SP(5D)6F	140.4653	-5.627	977.053	0.5	D6S	(5D)6D	72168.998	1.5	4P (3D)4F	
139.8809	-7.696	3117.461	1.5	D7	(5D)4F	74606.841	2.5	4P (3D)2D	140.4688	-3.504	27314.922	3.5	D6S	(3F)2F	98505.100	2.5	4SP(5D)4D	
139.9058	-0.573	20805.770	4.5	D7	(5D)2H	92282.460	3.5	4SP(5D)6F	140.4728	-6.232	20830.582	2.5	D6S	(3P)4P	92018.729	2.5	4SP(5D)6F	
139.9248	-5.294	977.053	0.5	D6S	(5D)6D	72429.711	0.5	4P (3D)4D	140.4745	-5.820	21711.917	3.5	D6S	(3H)4H	92899.200	2.5	4P (3F)4D	
139.9325	-3.637	23317.633	2.5	D5S2(7S)6S	94763.219	3.5	4SP(5D)6P	140.4879	-3.624	21231.608	6.5	D6S	(3H)4H	94211.739	2.5	4SP(5P)4P		
139.9667	-1.547	20830.582	2.5	D6S	(3P)4P	92274.120	2.5	4P (3P)4P	140.4880	-3.733	23031.300	1.5	D6S	(3F)4F	94211.739	2.5	4SP(5P)4P	
139.9844	-4.004	33501.253	3.5	D6S	(1G)2G	104937.800	4.5	4SP(31)4H	140.4881	-6.641	862.613	1.5	D6S	(5D)6D	72043.026	1.5	4P (3D)4P	
139.9854	-6.242	22637.205	4.5	D6S	(3F)4F	94073.240	3.5	4SP(5G)4G	140.4932	-3.473	22810.357	3.5	D6S	(3F)4F	93988.170	2.5	4SP(5G)4G	
139.9962	-1.995	22409.852	0.5	D6S	(3P)4P	93840.340	1.5	4SP(5D)6D	140.4946	-3.169	22810.357	3.5	D6S	(3F)4F	93987.457	3.5	4SP(5D)6D	
140.0138	-3.160	23317.633	2.5	D5S2(7S)6S	94739.170	1.5	4SP(5P)4P	140.5120	-8.612	16369.360	3.5	D7	(5D)2G	87537.652	3.5	4SP(5G)6F		
140.0157	-3.680	22637.205	4.5	D6S	(3F)4F	94057.773	4.5	4SP(5D)6D	140.5487	-2.838	27620.412	2.5	D6S	(3F)2F	98770.140	1.5	4SP(5D)4D	
140.0208	-3.871	21711.917	3.5	D6S	(3H)4H	93129.900	3.5	4P (3F)4D	140.5572	-3.024	21308.040	1.5	D7	(5D)2D	92453.460	0.5	4P (3F)4D	
140.0452	-2.198	26932.748	0.5	D6S	(3P)2P	98338.280	1.5	4SP(5P)4S	140.5593	-3.954	37272.326	0.5	D6S	(1S)2S	108371.700	1.5	250DD	
140.0533	-3.190	22810.357	3.5	D6S	(3F)4F	94211.739	2.5	4SP(5P)4P	140.5608	-1.498	1872.567	4.5	D7	(5D)4F	73016.147	3.5	4P (1G)2F	
140.0580	-7.288	20516.960	2.5	D7	(5D)2D	91915.950	1.5	4SP(5D)6F	140.5691	-3.649	31368.450	0.5	D6S	(3D)4D	102503.810	1.5	4SP(3D)2D	
140.0659	-4.488	20830.582	2.5	D6S	(3P)4P	92225.538	1.5	5P (5D)4P	140.5771	-3.542	22939.358	2.5	D6S	(3F)4F	94073.240	3.5	4SP(5G)4G	
140.0809	-2.928	21308.040	1.5	D7	(5D)2D	92695.374	2.5	4P (3P)2D	140.5800	-1.093	31387.948	2.5	D6S	(3D)4D	102503.810	1.5	4SP(3D)2D	
140.0840	-7.612	20830.582	2.5	D6S	(3P)4P	92216.320	1.5	4P (3P)2D	140.6156	-2.893	18360.646	1.5	D7	(5D)2P	89471.365	0.5	5P (5D)6D	
140.0893	-4.451	23317.633	2.5	D5S2(7S)6S	94700.660	2.5	4P (3F)2D	140.6258	-5.663	16369.360	3.5	D7	(5D)2G	87471.765	4.5	4SP(5G)6F		
140.0941	-4.913	3117.461	1.5	D7	(5D)4F	74498.057	1.5	4P (3D)2D	140.6422	-7.683	16369.360	3.5	D7	(5D)2G	87471.765	4.5	4SP(5G)6F	
140.1027	-5.716	7955.299	3.5	D6S	(5D)4D	93331.500	3.5	4SP(5S)6P	140.6428	-4.991	862.613	1.5	D6S	(5D)6D	71964.710	2.5	4P (3D)4P	
140.1033	-5.888	862.163	1.5	D6S	(5D)6D	72238.513	2.5	4P (3D)4F	140.6724	-3.098	21812.035	1.5	D6S	(3P)4P	92899.200	2.5	4P (3F)4D	
140.1044	-5.502	667.683	2.5	D6S	(5D)6D	72043.026	1.5	4P (3F)4G	140.6759	-5.026	20830.582	2.5	D6S	(3P)4P	92899.200	2.5	4P (3F)4D	
140.1112	-4.538	31811.822	2.5	D7	(5D)2F	103183.700	3.5	4SP(3D)2F	140.6767	-3.391	15844.650	4.5	D7	(5D)2G	86929.649	3.5	4P (3P)4D	
140.1199	-1.870	23317.633	2.5	D5S2(7S)6S	94685.090	2.5	4SP(5D)6P	140.6773	-2.966	31364.440	1.5	D7	(5D)2P	89444.458	2.5	4SP(5P)6P		
140.1214	-4.421	18360.646	1.5	D7	(5D)2P	93727.342	2.5	4P (3F)4G	140.6790	-9.163	18360.646	1.5	D7	(5D)2P	89444.458	2.5	4SP(5P)6P	
140.1229	-2.348	20805.770	4.5	D7	(5D)2H	92171.716	4.5	4P (3F)2G	140.6937	-2.950	27314.922	3.5	D6S	(3F)2F	98391.330	3.5	4SP(5D)4D	
140.1329	-5.878	20805.770	4.5	D7	(5D)2H	92166.600	5.5	4SP(5G)4H	140.7143	-5.006	977.053	0.5	D6S	(5D)6D	72043.026	1.5	4P (3D)4P	
140.1335	-3.624	33466.463	4.5	D6S	(1G)2G	72212.978	0.5	4P (3D)4H	140.7239	-2.310	31387.948	2.5	D6S	(3D)4D	102449.100	2.5	4SP(3D)2D	
140.1573	-3.382	20805.770	4.5	D7	(5D)2H	92154.165	3.5	4SP(5D)6F	140.7298	-5.584	20516.960	2.5	D7	(5D)2D	91575.139	2.5	5P (5D)6P	
140.1749	-2.687	21308.040	1.5	D7	(5D)2D	92647.510	1.5	4P (3F)4D	140.7448	-2.531	21308.040	1.5	D7	(5D)2D	92358.610	1.5	4SP(5G)4F	
140.1774	-0.947	22810.357	3.5	D6S	(3F)4F	94148.510	4.5	4SP(5G)4F	140.7483	-1.433	22939.358	2.5	D6S	(3F)4F	93988.170	2.5	4SP(5G)4G	
140.1835	-2.285	31999.048	3.5	D7	(5D)2F	103334.100	2.5	4SP(3D)2F	140.7497	-4.106	22939.358	2.5	D6S	(3F)2F	98354.660	2.5	4SP(5D)4F	
140.1938	-3.157	7955.299	3.5	D6S	(5D)4D	92825.110	2.5	4SP(5S)6P	140.7912	-4.832	109486.150	5.5	4SP(5D)8D	38458.981	4.5	4P (5D)6D		
140.2003	-6.172	20516.960	2.5	D7	(5D)2D	91843.470	1.5	5P (5D)6P	140.8017	-3.863	21308.040	1.5	D7	(5D)2D	92329.890	2.5	4SP(5G)4F	
									140.8033	-4.426	21581.638	4.5	D6S	(3H)4H	92602.703	3.5	4P (3F)2G	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
140.8042	-3.767	22810.357	3.5	D6S (3F)4F	93830.979	2.5	4SP(5D)6D	141.4411	-3.178	21581.638	4.5	D6S (3H)4H
140.8195	-3.392	20830.582	2.5	D6S (3P)4P	91843.470	1.5	5P (5D)6P	141.4587	-1.825	31811.822	2.5	D7 (5D)2F
140.8317	-3.856	21308.040	1.5	D7 (5D)2D	92314.758	0.5	5P (5D)4P	141.4589	-7.667	20516.960	2.5	D7 (5D)2D
140.8415	-2.203	21430.359	5.5	D6S (3H)4H	92432.136	5.5	4SP(5D)6F	141.4695	-2.272	13673.185	1.5	D7 (5D)4P
140.8449	-5.090	23031.300	1.5	D6S (3F)4F	94031.378	0.5	4SP(5D)6D	141.4699	-2.225	21430.359	5.5	D6S (3H)4H
140.8478	-0.446	21251.608	6.5	D6S (3H)4H	92250.210	6.5	4SP(5G)4H	141.4882	-1.299	22810.357	3.5	D6S (3F)4F
140.8518	-3.667	21430.359	5.5	D6S (3H)4H	92426.980	4.5	4SP(5G)4F	141.4943	-1.711	141.4943	-1.711	
140.8779	-6.221	21711.917	3.5	D6S (3H)4H	92695.374	2.5	4SP(3P)2D	141.5017	-4.947	23317.633	2.5	D5S2(7S)6S
140.9035	-6.351	18360.646	1.5	D7 (5D)2P	89331.195	1.5	5P (5D)6D	141.5031	-1.709	23317.633	2.5	D5S2(7S)6S
140.9124	-5.219	21308.040	1.5	D7 (5D)2D	92274.120	2.5	4P (3P)4F	141.5198	-4.187	2430.097	3.5	D7 (5D)4F
140.9127	-1.585	31483.176	3.5	D6S (3D)4D	102449.100	2.5	4SP(3D)2D	141.5409	-7.520	20516.960	2.5	D7 (5D)2D
140.9307	-1.188	23031.300	1.5	D6S (3F)4F	93988.170	2.5	4SP(5G)4G	141.5572	-1.646	18360.646	1.5	D7 (5D)2P
140.9395	-4.713	31999.048	3.5	D7 (5D)2F	102951.500	4.5	4SP(3I)4I	141.5600	-4.287	21812.055	1.5	D6S (3P)4F
140.9377	-3.425	36252.918	2.5	D6S (3D)2D	107196.200	2.5	180DD	141.5667	-2.716	15844.650	4.5	D7 (5D)2G
140.9651	-6.019	8391.938	2.5	D6S (5D)4D	79331.500	3.5	4SP(5S)6P	141.5683	-2.880	31811.822	2.5	D7 (5D)2F
141.0067	-3.834	22409.852	0.5	D6S (3P)4P	93328.480	1.5	4P (3F)4F	141.5763	-1.564	25428.784	5.5	D6S (3G)4G
141.0089	-4.222	21308.040	1.5	D7 (5D)2D	92225.538	1.5	5P (5D)4P	141.5934	-2.704	2430.097	3.5	D7 (5D)4F
141.0130	-3.271	27620.412	2.5	D6S (3F)2F	98535.850	3.5	4SP(5D)4F	141.6070	-3.960	21711.917	3.5	D6S (3H)4H
141.0139	-2.513	21251.608	6.5	D6S (3H)4H	92166.600	5.5	4SP(5G)4H	141.6224	-4.283	36232.918	2.5	D6S (3D)2D
141.0273	-4.637	36252.918	2.5	D6S (3D)2D	107165.600	3.5	170DD	141.6272	-7.945	21308.040	1.5	D7 (5D)2D
141.0418	-5.632	22939.358	2.5	D6S (3F)4F	93840.340	1.5	4SP(5D)6D	141.6337	-4.640	8680.454	1.5	D6S (5D)4D
141.0554	-1.817	23317.633	2.5	D5S2(7S)6S	94211.739	2.5	4SP(5P)4P	141.6630	-1.633	21581.638	4.5	D6S (3H)4H
141.0573	-3.751	8391.938	2.5	D6S (5D)4D	79285.110	2.5	4SP(5S)6P	141.6664	-3.865	21711.917	3.5	D6S (3H)4H
141.0604	-3.281	22939.358	2.5	D6S (3F)4F	93830.979	2.5	4SP(5D)6D	141.6711	-2.527	2430.097	3.5	D7 (5D)4F
141.0621	-3.348	21711.917	3.5	D6S (3H)4H	92602.703	3.5	4P (3F)2G	141.6732	-1.503	22810.357	3.5	D6S (3F)4F
141.0742	-3.264	13474.411	2.5	D7 (5D)4F	84359.800	1.5	4P (1F)2D	141.6740	-6.327	18886.780	0.5	D7 (5D)2P
141.0748	-3.330	27620.412	2.5	D6S (3F)2F	98505.100	2.5	4SP(5D)4D	141.6740	-6.327	18886.780	0.5	D7 (5D)2P
141.0769	-4.727	21812.055	1.5	D6S (3P)4P	92695.374	2.5	4P (3P)2D	141.6921	-3.465	27620.412	2.5	D6S (3F)2F
141.1036	-3.846	21430.359	5.5	D6S (3H)4H	92300.277	4.5	4SP(5D)6F	141.6982	-3.531	21581.638	4.5	D6S (3H)4H
141.1348	-3.631	8391.938	2.5	D6S (5D)4D	79246.170	1.5	4SP(5S)6P	141.7022	-3.215	21711.917	3.5	D6S (3H)4H
141.1399	-4.732	8391.938	2.5	D6S (5D)4D	79243.600	1.5	4P (1D)2P	141.7119	-3.902	8680.454	1.5	D6S (5D)4D
141.1423	-3.806	21581.638	4.5	D6S (3H)4H	92432.136	5.5	4SP(5D)6F	141.7123	-3.848	38214.507	1.5	D6S (1D)2D
141.1424	-1.723	22637.205	4.5	D6S (3F)4F	93487.650	3.5	4P (3F)4F	141.7170	-4.906	8680.454	1.5	D6S (5D)4D
141.1485	-0.923	23637.205	4.5	D6S (3H)4H	93484.580	4.5	4SP(5G)4F	141.7189	-4.721	21711.917	3.5	D6S (3H)4H
141.1525	-2.998	21581.638	4.5	D6S (3H)4H	92426.980	4.5	4SP(5G)4F	141.7228	-4.554	16369.360	3.5	D7 (5D)2G
141.1722	-3.636	21812.055	1.5	D6S (3P)4P	92647.510	1.5	4P (3F)4D	141.7362	-8.429	20516.960	2.5	D7 (5D)2D
141.2033	-2.289	21430.359	5.5	D6S (3F)4F	92250.210	6.5	4SP(5G)4H	141.7402	-4.431	25805.328	4.5	D6S (3G)4G
141.2222	-3.356	25428.784	5.5	D6S (3G)4G	96239.200	4.5	4SP(3G)2H	141.7469	-1.762	22939.358	2.5	D6S (3F)4F
141.2249	-3.918	23031.300	1.5	D6S (3F)4F	93840.340	1.5	4SP(5D)6D	141.7504	-4.000	21812.055	1.5	D6S (3P)4F
141.2436	-4.136	23031.300	1.5	D6S (3F)4F	93840.340	1.5	4SP(5D)6D	141.7581	-6.189	21308.040	1.5	D7 (5D)2D
141.2842	-1.642	1872.567	4.5	D7 (5D)4F	72651.876	3.5	4P (3D)4D	141.7707	-7.122	27314.922	3.5	D6S (3F)2F
141.2867	-3.603	1872.567	4.5	D7 (5D)4F	72650.658	4.5	4P (3D)4F	141.7727	-6.056	21308.040	1.5	D7 (5D)2D
141.3010	-3.705	27620.412	2.5	D6S (3F)2F	98391.330	3.5	4SP(5D)4D	141.7810	-7.235	20516.960	2.5	D7 (5D)2D
141.3252	-6.758	18360.646	1.5	D7 (5D)2P	89119.457	2.5	5P (5D)6D	141.7963	-8.302	0.000	4.5	D6S (5D)6D
141.3316	-5.388	23317.633	2.5	D5S2(7S)6S	94073.240	3.5	4SP(5G)4G	141.7983	-1.609	23317.633	2.5	D5S2(7S)6S
141.3356	-3.032	20830.582	2.5	D6S (3P)4P	101575.139	2.5	5P (5D)6P	141.8081	-3.950	21812.055	1.5	D6S (3P)4F
141.3378	-4.605	21430.359	5.5	D6S (3H)4H	92166.600	5.5	4SP(5G)4H	141.8171	-1.564	23317.633	2.5	D5S2(7S)6S
141.3600	-3.717	21430.359	5.5	D6S (3H)4H	92171.716	4.5	4P (3F)2G	141.8286	-2.254	21581.638	4.5	D6S (3H)4H
141.3644	-5.411	18886.780	0.5	D7 (5D)2P	89625.940	1.5	4SP(5P)6P	141.8385	-5.583	21812.055	1.5	D6S (3H)4H
141.3702	-0.543	7955.299	3.5	D6S (5D)4D	78690.846	2.5	4P (1D)2D	141.8587	-2.148	22637.205	4.5	D6S (3F)4F
141.3716	-4.543	141.3716	4.5		92329.890	2.5	4SP(5G)4F	141.8603	-3.425	25787.598	1.5	D6S (3P)2F
141.3742	-4.666	27620.412	2.5	D6S (3F)2F	98354.660	2.5	4SP(5D)4F	141.8853	-2.119	1872.567	4.5	D7 (5D)4F
141.4054	-2.305	21581.638	4.5	D6S (3H)4H	92300.277	4.5	4SP(5D)6F	141.8953	-2.119	1872.567	4.5	D7 (5D)4F
141.4070	-5.634	27620.412	2.5	D6S (3F)2F	98338.280	1.5	4SP(5P)4S	141.9106	-3.558	38164.194	2.5	D6S (1D)2D
141.4126	-4.061	21711.917	3.5	D6S (3H)4H	92426.980	4.5	4SP(5G)4F	141.9143	-4.968	38164.194	2.5	D6S (1D)2D
141.4163	-2.765	2430.097	3.5	D7 (5D)4F	73143.288	3.5	4P (1G)2G	141.9203	-3.397	21812.055	1.5	D6S (3P)4P
141.4213	-6.931	21308.040	1.5	D7 (5D)2D	92018.729	2.5	4SP(5D)6F	141.9249	-3.115	21711.917	3.5	D6S (3H)4H

WL(NM)	LOGCF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
141.9325	-1.215	22939.358	2.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F	142.4717	-1.323	2430.097	3.5	D7 (5D)4F
141.9346	-2.388	13904.824	0.5	D7 (5D)4F	84359.800	1.5	4P (1F)2D	142.4787	-0.878	31387.948	2.5	D6S (3D)4D
141.9445	-1.624	31999.048	3.5	D7 (5D)2F	102449.100	2.5	4SP(3D)2D	142.4865	-0.856	7955.299	3.5	D6S (5D)4D
141.9559	-6.619	18886.910	1.5	D7 (5D)2P	89331.195	1.5	5P (5D)6D	142.4944	-4.066	2837.950	2.5	D7 (5D)4F
141.9603	-1.859	21711.917	3.5	D6S (3H)4H	92154.165	3.5	4SP(5D)6F	142.4945	-2.564	16369.360	3.5	D7 (5D)2G
141.9771	-2.139	25805.328	4.5	D6S (3G)4G	96239.200	4.5	4SP(3G)2H	142.5110	-4.500	23317.633	2.5	D5S2(7S)6S
142.0157	-3.513	38214.507	1.5	D6S (1D)2D	108629.250	2.5	4SP(3G)4G	142.5273	-5.583	26055.423	2.5	D6S (3G)4G
142.0183	-7.061	21812.055	1.5	D6S (3P)4P	92225.538	1.5	5P (5D)4F	142.5283	-6.357	8680.454	1.5	D6S (5D)4D
142.0211	-3.506	25805.328	4.5	D6S (3G)4G	96217.420	3.5	4SP(5P)4D	142.5742	-8.128	384.790	3.5	D6S (5D)6D
142.0356	-2.205	21711.917	3.5	D6S (3H)4H	92116.780	4.5	4SP(5G)4H	142.6089	-9.793	20516.960	2.5	D7 (5D)2D
142.0368	-4.833	21812.055	1.5	D6S (3P)4P	92216.320	1.5	4P (3P)2D	142.6194	-2.043	18886.780	0.5	D7 (5D)2P
142.0467	-4.688	8848.768	0.5	D6S (5D)4D	79246.170	1.5	4SP(5S)6P	142.6261	-3.718	16369.360	3.5	D7 (5D)2G
142.0491	-3.369	16369.360	3.5	D7 (5D)2G	86767.577	2.5	4P (3P)4D	142.6270	-3.812	20516.960	2.5	D7 (5D)2D
142.0518	-5.566	8848.768	0.5	D6S (5D)4D	79243.600	1.5	4P (1F)2P	142.6439	-4.283	3317.461	1.5	D7 (5D)4F
142.0575	-2.172	13474.411	2.5	D7 (5D)4F	79243.600	1.5	4P (1F)2D	142.6454	-5.742	21812.055	1.5	D6S (3P)4P
142.0585	-1.551	26932.748	0.5	D6S (3P)2P	97326.270	1.5	4SP(3P)2P	142.6631	-6.758	8391.938	2.5	D6S (5D)4D
142.0673	-3.079	1872.567	4.5	D7 (5D)4F	72261.729	5.5	4P (1G)2H	142.6761	-2.519	22810.357	3.5	D6S (3F)4F
142.0674	-1.582	22939.358	2.5	D6S (3F)4F	93328.480	1.5	4P (3F)4F	142.6782	-4.081	23317.633	2.5	D5S2(7S)6S
142.0774	-5.042	20516.960	2.5	D7 (5D)2D	90901.124	2.5	5P (5D)4P	142.7011	-6.057	20516.960	2.5	D7 (5D)2D
142.0820	-5.691	20516.960	2.5	D7 (5D)2D	90898.873	1.5	4P (3P)4P	142.7111	-3.198	3117.461	1.5	D7 (5D)4F
142.0892	-5.199	20830.582	2.5	D6S (3P)4P	91208.887	1.5	5P (5D)4F	142.7133	-3.308	20830.582	2.5	D6S (3P)4P
142.0912	-0.739	21711.917	3.5	D6S (3H)4H	92089.260	3.5	4SP(5G)4H	142.7135	-3.997	25787.598	1.5	D6S (3P)2P
142.0952	-2.807	25981.629	3.5	D6S (3G)4G	96356.960	3.5	4SP(3G)2F	142.7148	-2.603	3117.461	1.5	D7 (5D)4F
142.1180	-1.683	23031.300	1.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F	142.7164	-2.084	26170.181	5.5	D6S (3H)2H
142.1218	-8.133	20805.770	4.5	D7 (5D)2H	91167.937	3.5	5P (5D)6P	142.7179	-3.430	20830.582	2.5	D6S (3P)4P
142.1334	-3.001	32875.646	6.5	D6S (1I)2I	103232.100	7.5	4SP(3I)4I	142.7179	-3.430	20830.582	2.5	D6S (3P)4P
142.1441	-2.484	2837.950	2.5	D7 (5D)4F	73189.110	1.5	4P (3D)2P	142.7629	-3.457	22409.852	0.5	D6S (3F)4P
142.1470	-4.903	20830.582	2.5	D6S (3P)4P	91167.937	3.5	5P (5D)6P	142.7723	-4.713	32909.905	5.5	D6S (3F)4P
142.2080	-1.387	22810.357	3.5	D6S (3F)4F	93129.900	3.5	4P (3F)4D	142.7783	-5.456	21812.055	1.5	D6S (3F)4P
142.2180	-6.904	0.000	4.5	D6S (5H)6D	70314.604	4.5	4P (3G)2G	142.7879	-1.310	31364.440	1.5	D6S (3D)4D
142.2337	-4.438	21711.917	3.5	D6S (3D)4F	73143.288	3.5	4P (1G)2G	142.8285	-4.888	31368.450	0.5	D6S (3D)4D
142.2444	-4.223	26055.423	2.5	D6S (3G)4G	96356.960	3.5	4SP(3G)2F	142.8359	-6.288	8846.768	0.5	D6S (5D)4D
142.2497	-7.178	8391.938	2.5	D6S (5D)4D	78690.846	2.5	4P (1G)2D	142.8486	-2.228	26352.766	4.5	D6S (3D)2H
142.2518	-3.264	25981.629	3.5	D6S (3G)4G	93328.480	1.5	4P (3F)4F	142.8670	-4.888	8846.768	0.5	D6S (5D)4D
142.2532	-1.144	23031.300	1.5	D6S (3F)4F	93328.480	1.5	4P (3F)4F	142.8978	-4.452	25787.598	1.5	D6S (3P)2P
142.3141	-7.211	20516.960	2.5	D7 (5D)2D	91575.139	2.5	5P (5D)6P	142.9071	-4.163	32875.646	6.5	D6S (1I)2I
142.3329	-5.881	1872.567	4.5	D7 (5D)4F	72130.390	4.5	4P (1G)2H	142.9085	-6.024	20805.770	4.5	D7 (5D)2H
142.3334	-3.734	25981.629	3.5	D6S (3G)4G	96239.200	4.5	4SP(3G)2H	142.9167	-7.153	20516.960	2.5	D7 (5D)2D
142.3351	-3.254	25805.328	4.5	D6S (3G)4G	96062.060	5.5	4SP(3G)2H	142.9276	-2.166	22637.205	4.5	D6S (3F)4F
142.3691	-3.542	20830.582	2.5	D6S (3P)4P	91070.547	2.5	5P (5D)4F	142.9391	-1.906	22939.358	2.5	D6S (3F)4F
142.3738	-3.627	22409.852	0.5	D6S (3P)4P	92647.510	1.5	4P (3F)4D	142.9592	-6.157	20830.582	2.5	D6S (3F)4F
142.3776	-6.992	25981.629	3.5	D6S (3G)4G	96217.420	3.5	4SP(5P)4D	142.9618	-3.933	22409.852	0.5	D6S (3P)4P
142.4013	-2.755	26055.423	2.5	D6S (3G)4G	96279.490	2.5	4SP(3G)2F	142.9792	-5.156	26055.423	2.5	D6S (3G)4G
142.4060	-3.714	2430.097	3.5	D7 (5D)4F	72651.876	3.5	4P (3D)4D	142.9850	-4.244	384.790	3.5	D6S (5D)6D
142.4084	-3.607	2430.097	3.5	D7 (5D)4F	72650.658	4.5	4P (3D)4F	143.0055	-7.187	384.790	3.5	D6S (5D)4F
142.4143	-4.308	20830.582	2.5	D6S (3P)4P	91048.256	1.5	5P (5D)4D	143.0167	-2.520	28210.357	3.5	D7 (5D)4F
142.4158	-3.090	2837.950	2.5	D7 (5D)4F	73054.881	2.5	4P (1G)2F	143.0286	-3.600	38214.507	1.5	D6S (1D)2D
142.4278	-3.366	32909.905	5.5	D6S (1I)2I	103120.900	6.5	4SP(3I)4I	143.0515	-4.681	22409.852	0.5	D6S (3P)4P
142.4307	-4.221	38164.194	2.5	D6S (1D)2D	108373.800	3.5	2600D	143.0598	-6.919	21308.040	1.5	D7 (5D)2D
142.4337	-3.403	25787.598	1.5	D6S (3D)4D	101573.900	1.5	4SP(5D)4P	143.0781	-0.301	26170.181	5.5	D6S (3D)2H
142.4349	-4.368	38164.194	2.5	D6S (1P)2D	108371.700	1.5	2500D	143.0785	-5.702	26352.766	4.5	D6S (3H)2H
142.4366	-4.586	21812.055	1.5	D6S (3P)4P	92018.729	2.5	4SP(5D)6F	143.0893	-0.367	143.0893	-0.367	
142.4391	-2.207	31368.450	0.5	D6S (3D)4D	101573.900	1.5	4SP(5D)4P	143.0922	-2.652	22810.357	3.5	D6S (3F)4F
142.4598	-1.929	13673.185	1.5	D7 (5D)4F	83868.450	2.5	4P (1F)2D	143.1006	-5.243	20516.960	2.5	D7 (5D)2D
142.4693	-1.925	22939.358	2.5	D6S (3F)4F	93129.900	3.5	4P (3F)4D	143.1201	-4.107	20340.300	5.5	D7 (5D)2H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
143.1272	-2.462	23031.300	1.5	D6S (3F)4F	92899.200	2.5	4P (3F)4D	143.7457	-4.769	20830.582	1.5	D6S (3P)4P
143.1339	-3.710	26352.766	4.5	D6S (3H)2H	96217.420	3.5	4SP(5P)4D	143.8074	-8.190	18360.646	2.5	D7 (5D)2F
143.1368	-7.393	21711.917	3.5	D6S (3H)4H	91575.139	2.5	5P (5D)6P	143.8133	-2.604	2430.097	3.5	D7 (5D)4F
143.1516	-7.419	667.683	2.5	D6S (5D)6D	70523.706	3.5	4P (3G)2G	143.8135	-2.583	22637.205	4.5	D6S (3F)4F
143.1991	-3.600	33501.253	3.5	D6S (1G)2G	103334.100	2.5	4SP(3D)2F	143.8198	-3.847	21308.040	1.5	D7 (5D)2D
143.2032	-4.852	13474.411	2.5	D7 (5D)4F	83305.251	3.5	4P (1E)2G	143.8241	-2.775	22637.205	4.5	D6S (3F)4F
143.2343	-3.395	22409.852	0.5	D6S (3P)4P	92225.538	1.5	5P (5D)4F	143.8445	-1.797	22810.357	3.5	D6S (3F)4F
143.2379	-4.370	2837.950	2.5	D7 (5D)4F	72651.876	3.5	4P (3D)4D	143.8498	-3.149	22637.205	4.5	D6S (3F)4F
143.2413	-4.752	23317.633	2.5	D5S2(7S)6S	93129.900	3.5	4P (3F)4F	143.8558	-3.459	2837.950	2.5	D7 (5D)4F
143.2492	-2.668	2430.097	3.5	D7 (5D)4F	72238.513	2.5	4P (3D)4F	143.8563	-3.237	33466.463	4.5	D6S (1G)2G
143.2496	-3.948	20830.582	2.5	D6S (3P)4P	90638.822	2.5	5P (5D)4D	143.8723	-4.635	22409.852	0.5	D6S (3P)4F
143.2527	-5.087	8680.454	1.5	D6S (5D)4D	78487.153	1.5	4P (1D)2D	143.8807	-3.404	3117.461	1.5	D7 (5D)4F
143.2532	-4.818	22409.852	0.5	D6S (3P)4P	92426.980	4.5	4SP(5G)4F	143.8955	-5.828	20805.470	4.5	D7 (5D)2H
143.2611	-4.209	26055.423	2.5	D6S (3G)4G	95858.050	1.5	4SP(5P)4D	143.9058	-3.473	22810.357	3.5	D6S (3F)4F
143.2679	-3.444	20830.582	2.5	D6S (3P)4P	90629.902	1.5	4P (3F)4F	143.9159	-4.378	33466.463	4.5	D6S (1G)2G
143.2769	-3.854	22637.205	4.5	D6S (3F)4F	92432.136	5.5	4SP(5D)6F	143.9272	-2.392	22637.205	4.5	D6S (3F)4F
143.2822	-1.699	22810.357	3.5	D6S (3F)4F	92602.703	3.5	4P (3F)2G	143.9427	-1.288	22810.357	3.5	D6S (3F)4F
143.2875	-0.851	22637.205	4.5	D6S (3F)4F	92426.980	4.5	4SP(5G)4F	143.9469	-5.078	20830.582	2.5	D6S (3P)4F
143.2923	-5.682	7955.299	3.5	D6S (5D)4D	77742.730	2.5	4P (1D)2F	143.9600	-2.575	22810.357	3.5	D6S (3F)4F
143.3000	-6.331	20516.960	2.5	D7 (5D)2D	90300.625	3.5	5P (5D)6F	143.9760	-6.778	21711.917	3.5	D6S (3H)4H
143.3044	-2.171	2837.950	2.5	D7 (5D)4F	72619.490	2.5	4P (3D)4D	143.9842	-5.877	22637.205	4.5	D6S (3F)4F
143.3426	-3.617	21812.055	1.5	D6S (3P)4P	91575.139	2.5	5P (5D)6F	143.9880	-2.957	33501.253	3.5	D6S (1G)2G
143.3435	-5.201	20830.582	2.5	D6S (3P)4P	90593.497	1.5	5P (5D)6P	144.0074	-5.477	22409.852	0.5	D6S (3P)4F
143.3444	-3.774	21308.040	1.5	D7 (5D)2D	91070.547	2.5	5P (5D)4F	144.0225	-3.855	22409.852	0.5	D6S (3P)4F
143.3568	-2.191	22939.358	2.5	D6S (3F)4F	101573.900	1.5	4SP(5D)4F	144.0462	-4.728	23031.300	1.5	D6S (3F)4F
143.3786	-9.609	8391.938	2.5	D6S (5D)4D	92695.374	2.5	4P (1D)2F	144.0510	-3.236	30388.542	4.5	D6S (3G)2G
143.3893	-5.453	21308.040	1.5	D7 (5D)2D	91048.256	1.5	5P (5D)4D	144.0523	-1.977	22939.358	2.5	D6S (3F)4F
143.4164	-8.028	20340.300	5.5	D7 (5D)2D	90067.347	4.5	5P (5D)6F	144.0775	-2.260	3117.461	1.5	D7 (5D)4F
143.4259	-3.575	38164.194	2.5	D6S (1D)2D	107886.600	3.5	2000D	144.0911	-2.771	2837.950	2.5	D7 (5D)4F
143.4366	-3.476	33466.463	4.5	D6S (1G)2G	103183.700	3.5	4SP(3D)2F	144.0988	-5.792	21812.055	1.5	D6S (3P)4F
143.4529	-2.837	26352.766	4.5	D6S (3H)2H	96062.060	5.5	4SP(3G)2H	144.1118	-1.519	22939.358	2.5	D6S (3F)4F
143.4552	-2.762	22939.358	2.5	D6S (3F)4F	92647.510	1.5	4P (3F)2D	144.1179	-4.596	21812.055	1.5	D6S (3P)4F
143.4600	-4.065	27620.412	2.5	D6S (3F)2F	97326.270	1.5	4SP(3P)2P	144.1384	-4.832	23317.633	2.5	D5S2(7S)6S
143.4669	-1.850	20340.300	5.5	D7 (5D)2H	90042.779	4.5	4P (1G)2H	144.1474	-3.465	20516.960	2.5	D7 (5D)2D
143.4714	-3.604	2430.097	3.5	D7 (5D)4F	72130.390	4.5	4P (3F)4D	144.1575	-0.588	30388.542	4.5	D6S (3G)2G
143.4746	-5.204	18360.646	1.5	D7 (5D)2P	88059.380	2.5	4SP(5P)6D	144.1725	-3.239	22810.357	3.5	D6S (3F)4F
143.4996	-1.565	2837.950	2.5	D7 (5D)4F	72524.566	1.5	4P (3D)4D	144.1782	-5.434	21711.917	3.5	D6S (3H)4H
143.5082	-4.461	33501.253	3.5	D6S (1G)2G	103183.700	3.5	4SP(3D)2F	144.1945	-7.326	8391.938	2.5	D6S (5D)4D
143.5460	-2.709	20301.300	1.5	D6S (3F)4F	92695.374	2.5	4P (3F)2D	144.2090	-4.290	22810.357	3.5	D6S (3F)4F
143.5475	-2.171	22939.358	2.5	D6S (3F)4F	92602.703	3.5	4P (3F)2G	144.2105	-1.861	22939.358	2.5	D6S (3F)4F
143.5481	-3.057	22637.205	4.5	D6S (3F)4F	92300.277	4.5	4SP(5D)6F	144.2165	-7.814	21308.040	1.5	D7 (5D)2D
143.5601	-6.325	20830.582	2.5	D6S (3P)4P	90487.810	2.5	5P (5D)6F	144.2278	-2.260	22939.358	2.5	D6S (3F)4F
143.5848	-1.821	22637.205	4.5	D6S (3F)4F	92282.460	3.5	4SP(5G)4F	144.2355	-2.594	2837.950	2.5	D7 (5D)4F
143.5948	-5.554	8846.768	0.5	D6S (5D)4D	78487.153	1.5	4P (1D)2D	144.2361	-4.895	21308.040	1.5	D7 (5D)4F
143.6041	-2.283	20810.357	3.5	D6S (3G)2G	100400.360	2.5	4SP(3P)2D	144.2380	-5.487	23317.633	2.5	D5S2(7S)6S
143.6439	-1.707	30764.485	3.5	D6S (3F)4F	92426.980	4.5	4SP(5G)4F	144.2433	-1.558	23031.300	1.5	D6S (3F)4F
143.6447	-2.121	20301.300	1.5	D6S (3F)4F	92647.510	1.5	4P (3F)4D	144.2546	-3.357	21308.040	1.5	D7 (5D)2D
143.6487	-4.960	32875.646	1.5	D6S (11)21	102489.900	6.5	4SP(31)4K	144.2746	-1.874	3117.461	1.5	D7 (5D)4F
143.6699	-5.935	18360.646	1.5	D7 (5D)2P	87964.650	1.5	4SP(5P)6D	144.2868	-2.640	22810.357	3.5	D6S (3F)4F
143.6924	-7.361	21308.040	1.5	D7 (5D)2D	90901.124	2.5	5P (5D)4P	144.3031	-2.043	23031.300	1.5	D6S (3F)4F
143.6945	-8.291	20805.470	4.5	D7 (5D)2H	90397.868	3.5	5P (5D)4D	144.3289	-7.345	22939.358	2.5	D6S (3F)4F
143.6971	-4.875	21308.040	1.5	D7 (5D)2D	90838.873	1.5	4P (3F)4P	144.3304	-5.885	21308.040	1.5	D7 (5D)2D
143.7065	-6.888	21581.638	4.5	D6S (3H)4H	91167.937	3.5	5P (5D)6P	144.3312	-5.928	23317.633	2.5	D5S2(7S)6S
143.7115	-4.616	20340.300	5.5	D7 (5D)2H	89924.175	5.5	5P (5D)6F	144.3346	-6.786	23031.300	1.5	D6S (3F)4F
143.7162	-4.648	23317.633	2.5	D5S2(7S)6S	92899.200	2.5	4P (3F)4D	144.3441	-3.169	22810.357	3.5	D6S (3F)4F
143.7179	-7.005	20805.470	4.5	D7 (5D)2H	90386.528	4.5	5P (5D)4F	144.3481	-3.201	22939.358	2.5	D6S (3F)4F
143.7195	-3.846	32909.905	5.5	D6S (11)21	102489.900	6.5	4SP(31)4K	144.3516	-6.678	18360.646	1.5	D7 (5D)2P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
144.3537	-4.861	25805.328	4.5	D6S (3G)4G	99079.640	3.5	4P (3F)2F	145.0015	-6.432	23317.633	2.5	D5S2(7S)6S
144.3716	-7.698	3884.790	3.5	D6S (5D)6D	69650.484	2.5	4P (3G)2G	145.0020	-1.655	27314.922	3.5	D6S (3F)2F
144.3737	-0.991	30388.542	4.5	D6S (3G)2G	99653.220	4.5	4SP(3G)2G	145.0114	-4.172	21251.608	6.5	D6S (3H)4H
144.3802	-8.936	20805.770	4.5	D7 (5D)2H	90067.347	4.5	5P (5D)6F	145.0160	-3.942	25805.328	4.5	D6S (3G)4G
144.3866	-4.332	25787.598	1.5	D6S (3P)2P	95046.100	2.5	4P (3F)2F	145.0190	-3.895	23317.633	2.5	D5S2(7S)6S
144.3866	-4.181	21812.055	1.5	D6S (3P)4P	91070.547	2.5	5P (5D)4F	145.0197	-4.091	21430.359	5.5	D6S (3H)4H
144.4010	-2.751	25787.598	1.5	D6S (3P)2P	95039.200	1.5	4P (3P)2P	145.0293	-3.152	25787.598	1.5	D6S (3P)2P
144.4106	-3.639	30388.542	4.5	D6S (3G)2G	99635.520	3.5	4SP(3G)2G	145.0372	-2.707	33501.253	3.5	D6S (1G)2G
144.4193	-2.785	23031.300	1.5	D6S (3F)4F	92274.120	2.5	4P (3P)4P	145.0560	-8.136	667.683	2.5	D6S (5D)6D
144.4218	-6.942	18360.646	1.5	D7 (5D)2P	87602.220	1.5	4SP(5G)6F	145.0800	-6.239	20516.960	2.5	D7 (5D)2D
144.4314	-4.093	20805.770	4.5	D7 (5D)2H	90042.779	4.5	4P (3F)4G	145.0812	-6.150	21711.917	3.5	D6S (3H)4H
144.4331	-4.524	21812.055	1.5	D6S (3P)4P	91048.256	1.5	4P (5D)4D	145.0840	-3.157	3117.461	1.5	D7 (5D)4F
144.4632	-8.252	384.790	3.5	D6S (5D)6D	69606.552	3.5	5P (3G)2F	145.0846	-4.004	26932.748	0.5	D6S (3F)2P
144.4778	-4.039	22939.358	2.5	D6S (3F)4F	92154.165	3.5	4SP(5D)6F	145.0868	-2.461	27314.922	3.5	D6S (3F)2F
144.4841	-6.725	18360.646	1.5	D7 (5D)2P	87572.431	2.5	4SP(5G)6F	145.1017	-3.397	31483.176	3.5	D6S (3D)4D
144.4870	-4.375	20516.960	2.5	D7 (5D)2D	89727.342	2.5	4P (3F)4G	145.1104	-2.813	25787.598	1.5	D6S (3P)2P
144.4912	-3.095	22810.357	3.5	D6S (3F)4F	92018.729	2.5	4SP(5D)6F	145.1212	-3.566	23317.633	2.5	D5S2(7S)6S
144.4981	-2.327	2837.950	2.5	D7 (5D)4F	72043.026	1.5	4P (3D)4P	145.1292	-4.799	22939.358	2.5	D6S (3F)4F
144.5107	-6.187	21581.638	4.5	D6S (3H)4H	90780.621	3.5	5P (5D)4F	145.1326	-3.219	27314.922	3.5	D6S (3F)2F
144.5207	-4.593	23031.300	1.5	D6S (3F)4F	92225.538	1.5	5P (5D)4P	145.1406	-6.584	23317.633	2.5	D5S2(7S)6S
144.5312	-6.193	21711.917	3.5	D6S (3H)4H	90901.124	2.5	5P (5D)4P	145.1432	-3.546	25787.598	1.5	D6S (3P)2P
144.5400	-2.985	23031.300	1.5	D6S (3F)4F	92216.320	1.5	4P (3P)2D	145.1447	-6.892	20830.582	2.5	D6S (3P)4P
144.5509	-6.564	21308.400	1.5	D7 (5D)2D	90487.810	2.5	5P (5D)6F	145.1616	-2.661	30764.485	3.5	D6S (3G)2G
144.6134	-3.470	22939.358	2.5	D6S (3F)4F	92089.260	3.5	4SP(5G)4H	145.1702	-3.930	23031.300	1.5	D6S (3F)4F
144.6618	-3.511	2837.950	2.5	D7 (5D)4F	71964.710	2.5	4P (3D)4P	145.1930	-4.277	33466.463	4.5	D6S (1G)2G
144.6737	-3.909	3117.461	1.5	D7 (5D)4F	72238.513	2.5	4P (3D)4F	145.1989	-0.870	30764.485	3.5	D6S (3G)2G
144.6793	-5.707	20805.770	4.5	D7 (5D)2H	89924.175	5.5	5P (5D)6F	145.2491	-4.817	3117.461	1.5	D7 (5D)4F
144.6950	-5.644	20516.960	2.5	D7 (5D)2D	89625.940	1.5	4SP(5P)6P	145.2725	-3.332	23317.633	2.5	D5S2(7S)6S
144.7220	-4.130	25981.629	3.5	D6S (3G)4G	95079.640	3.5	4P (3F)2F	145.2750	-4.524	26932.748	0.5	D6S (3P)2P
144.7407	-3.894	21812.055	1.5	D6S (3P)2P	94880.740	0.5	4SP(5P)4P	145.2923	-4.069	21812.055	1.5	D6S (3P)4P
144.7454	-3.828	21812.055	1.5	D6S (3P)4P	90901.124	2.5	5P (5D)4P	145.3078	-3.344	23031.300	1.5	D6S (3F)4F
144.7501	-2.290	20805.770	4.5	D7 (5D)2H	89890.373	3.5	4P (3F)4G	145.3111	-3.839	21812.055	1.5	D6S (3P)4P
144.7610	-4.084	22939.358	2.5	D6S (3F)4F	92018.729	2.5	4SP(5D)6F	145.3146	-5.249	21581.638	4.5	D6S (3H)4H
144.7662	-5.991	18886.780	0.5	D7 (5D)2P	87964.650	1.5	4SP(5P)6D	145.3188	-6.132	20516.960	2.5	D7 (5D)2D
144.7834	-5.872	21711.917	3.5	D6S (3H)4H	90780.621	3.5	5P (5D)4F	145.3385	-7.004	21581.638	4.5	D6S (3H)4H
144.7922	-4.518	25981.629	3.5	D6S (3G)4G	95046.100	2.5	4P (1G)2F	145.3586	-3.946	20830.582	2.5	D6S (3P)4P
144.7968	-7.042	8680.454	1.5	D6S (5D)4D	77742.730	2.5	4P (3F)4G	145.3702	-5.188	22409.852	0.5	D6S (3P)4P
144.8021	-6.040	20830.582	2.5	D6S (3P)4P	89890.373	3.5	4P (3F)4G	145.3745	-4.808	862.613	1.5	D6S (5D)6D
144.8194	-3.000	3117.461	1.5	D7 (5D)4F	72168.998	1.5	4P (3D)4F	145.3877	-8.864	25981.629	3.5	D6S (3G)4G
144.8334	-0.967	30764.485	3.5	D6S (3G)2G	99808.400	3.5	4P (1G)2G	145.3881	-5.676	21812.055	1.5	D6S (3P)4P
144.8393	-0.563	27314.922	3.5	D6S (3F)2F	96356.960	3.5	4SP(3G)2G	145.3883	-4.074	21430.359	5.5	D6S (3H)4H
144.8415	-5.200	23317.633	2.5	D5S2(7S)6S	92358.610	1.5	4SP(5G)4F	145.3998	-4.702	21711.917	3.5	D6S (3H)4H
144.8521	-3.507	31364.440	1.5	D6S (3D)4D	100400.360	2.5	4SP(3P)2D	145.4002	-4.822	36252.918	2.5	D6S (3H)4H
144.8603	-3.958	38164.194	2.5	D6S (1D)2D	107196.200	2.5	180DD	145.4233	-3.825	22840.357	3.5	D6S (3F)4F
144.8700	-3.101	21812.055	1.5	D6S (3P)4P	90839.480	0.5	4P (3P)4P	145.4088	-4.415	23317.633	2.5	D5S2(7S)6S
144.8767	-4.321	26055.423	2.5	D6S (3G)4G	95079.640	3.5	4P (3F)2F	145.4233	-3.825	22840.357	3.5	D6S (3F)4F
144.9015	-2.676	31387.948	2.5	D6S (3D)4D	100400.360	2.5	4SP(3P)2D	145.4311	-0.665	25428.784	5.5	D6S (3G)4G
144.9018	-4.220	23317.633	2.5	D5S2(7S)6S	92329.890	2.5	4SP(5G)4F	145.4311	-0.665	25428.784	5.5	D6S (3F)4G
144.9037	-6.128	18886.780	0.5	D7 (5D)2P	87898.120	0.5	4SP(5G)6F	145.4323	-4.949	107219.500	4.5	4P(7P)8P
144.9246	-4.234	38164.194	2.5	D6S (1D)2D	107165.600	3.5	170DD	145.4564	-8.122	18886.780	0.5	D7 (5D)2P
144.9430	-1.527	30764.485	3.5	D6S (3G)2G	99757.120	4.5	4P (1G)2G	145.4830	-1.943	27620.412	2.5	D6S (3F)2F
144.9471	-3.765	26055.423	2.5	D6S (3G)4G	95046.100	2.5	4P (3F)2F	145.5186	-2.182	25428.784	5.5	D6S (3G)4G
144.9539	-7.027	23031.300	1.5	D6S (3F)4F	92018.729	2.5	4SP(5D)6F	145.5201	-3.874	25981.629	3.5	D6S (3G)4G
144.9616	-4.396	26055.423	2.5	D6S (3G)4G	95039.200	1.5	4P (3P)2P	145.5202	-4.202	21581.638	4.5	D6S (3H)4H
144.9637	-7.575	667.683	2.5	D6S (5D)6D	69650.484	2.5	4P (3G)2F	145.5231	-3.352	384.790	3.5	D6S (5D)6D
144.9767	-3.187	22939.358	2.5	D6S (3F)4F	91915.950	1.5	4SP(5D)6F	145.5276	-6.878	18886.780	0.5	D7 (5D)2P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
145.5439	-6.259	26055.423	2.5	D6S (3G)4G	94763.219	3.5	4SP(5D)6P	146.3468	-4.369	21711.912	3.5	D6S (3H)4H	90042.779	4.5	4P (3F)4G
145.5531	-4.088	25981.629	3.5	D6S (3G)4G	94685.090	2.5	4SP(5D)6P	146.3588	-4.579	31483.176	3.5	D6S (3D)4D	99808.400	3.5	4P (1G)2G
145.5581	-2.975	23817.633	2.5	D5S2 (7S)6S	92018.729	2.5	4SP(5D)6F	146.3592	-3.519	977.053	0.5	D6S (5D)6D	69302.090	1.5	4SP(5S)4F
145.5625	-3.929	38164.194	2.5	D6S (1D)2D	106863.200	3.5	160DD	146.3640	-8.411	20805.770	4.5	D7 (5D)2H	89128.561	3.5	4SP(5P)6P
145.5902	-6.205	21711.917	3.5	D6S (3H)4H	90397.868	3.5	5P (5D)4D	146.3745	-5.747	21508.040	1.5	D7 (5D)2H	89625.970	1.5	4SP(5P)6P
145.5949	-4.627	26055.423	2.5	D6S (3G)4G	94739.170	1.5	4SP(5P)4P	146.3942	-3.971	21581.638	4.5	D6S (3H)4H	89890.343	3.5	4P (3F)4F
145.6012	-5.405	27314.922	3.5	D6S (3F)2F	95995.690	2.5	4SP(5P)4D	146.4172	-5.022	20830.582	2.5	D6S (3F)4F	89128.561	3.5	4SP(5P)6P
145.6118	-5.946	21812.055	1.5	D6S (3P)4P	90386.528	4.5	5P (5D)6F	146.4367	-3.835	20830.582	2.5	D6S (3P)4P	89119.457	2.5	5P (5D)6D
145.6142	-6.860	21711.917	3.5	D6S (3H)4H	90386.528	4.5	5P (5D)6F	146.4468	-6.816	20340.300	5.5	D7 (5D)2H	88614.520	4.5	4P (1G)2G
145.6186	-3.796	21251.608	6.5	D6S (3H)4H	89924.175	5.5	5P (5D)6F	146.4688	-4.684	31483.176	3.5	D6S (3D)4D	99757.120	4.5	4P (1G)2G
145.6472	-0.695	27620.412	2.5	D6S (3F)2F	96279.490	2.5	4SP(3G)2F	146.4782	-3.278	22939.358	2.5	D6S (3F)4F	91208.887	1.5	5P (5D)4F
145.6640	-4.166	1872.567	4.5	D7 (5D)4F	70523.706	3.5	4P (3G)2G	146.4817	-2.005	25805.328	4.5	D6S (3G)4G	94073.240	3.5	4SP(5G)4F
145.6765	-5.823	26055.423	2.5	D6S (3G)4G	94700.660	2.5	4P (3F)2D	146.4983	-3.510	22810.357	3.5	D6S (3F)4F	91070.547	2.5	5P (5D)4F
145.6910	-4.247	22409.852	0.5	D6S (3P)4P	91048.256	1.5	5P (5D)4D	146.5040	-0.606	23317.633	2.5	D5S2 (7S)6S	91575.139	2.5	5P (5D)6P
145.6940	-4.378	21430.359	5.5	D6S (3H)4H	90575.347	4.5	5P (5D)6F	146.5149	-3.521	25805.328	4.5	D6S (3G)4G	94057.773	4.5	4SP(5D)6D
145.6966	-5.896	22939.358	2.5	D6S (3F)4F	91575.139	2.5	5P (5D)6F	146.5335	-4.268	25787.598	1.5	D6S (3P)2P	90431.378	0.5	4SP(5D)6D
145.6995	-4.320	667.683	2.5	D6S (5D)6D	69302.090	1.5	4SP(5S)4F	146.5421	-3.550	862.613	1.5	D6S (5D)6D	69102.380	2.5	4SP(5S)4F
145.7087	-4.134	21581.638	4.5	D6S (3H)4H	90211.700	5.5	4P (3F)4G	146.5451	-6.607	22409.852	0.5	D6S (3P)4P	90648.210	0.5	5P (5D)6F
145.7096	-4.273	26055.423	2.5	D6S (3G)4G	94685.090	2.5	4SP(5D)6P	146.5467	-4.517	27620.412	2.5	D6S (3F)2F	95858.050	1.5	4SP(5P)4D
145.7110	-3.304	25428.784	5.5	D6S (3G)4G	94057.773	4.5	4SP(5D)6D	146.5629	-4.879	25981.629	3.5	D6S (3G)4G	94211.739	2.5	4SP(5P)4F
145.7431	-3.776	20830.582	2.5	D6S (3P)4P	89444.458	2.5	4SP(5P)6P	146.5661	-5.526	22409.852	0.5	D6S (3F)4F	91167.937	3.5	5P (5D)6P
145.7462	-4.469	21430.359	5.5	D6S (3H)4H	9042.779	4.5	4P (3F)4F	146.5845	-4.205	22409.852	0.5	D6S (3P)4P	90629.902	1.5	4P (3P)4S
145.7479	-7.987	20516.960	2.5	D7 (5D)2D	89128.561	3.5	4SP(5P)6P	146.6101	-2.828	30388.542	4.5	D6S (3G)2G	98596.650	4.5	4SP(5D)4F
145.7673	-6.442	20516.960	2.5	D7 (5D)2D	89119.457	2.5	5P (5D)6D	146.6263	-4.589	25787.598	1.5	D6S (3P)2P	93988.170	2.5	4SP(5G)4G
145.7790	-4.400	23317.633	2.5	D5S2 (7S)6S	91915.950	1.5	4SP(5D)6F	146.6659	-2.114	18360.646	1.5	D7 (5D)2P	86547.490	2.5	4P (1F)2F
145.7966	-6.252	27620.412	2.5	D6S (3F)2F	96217.420	3.5	4SP(5P)4D	146.6660	-4.569	22409.852	0.5	D6S (3P)4P	90593.497	1.5	5P (5D)6F
145.8484	-4.612	862.613	1.5	D6S (5D)6D	69426.980	0.5	4SP(5S)4F	146.6739	-5.425	21711.917	3.5	D6S (3G)4G	93987.373	3.5	4P (3F)4F
145.8588	-4.866	107219.500	4.5	4P2 (7F)8P	38660.043	3.5	4P (5D)6D	146.6758	-3.245	106836.000	3.5	4P2 (7F)8P	38660.043	3.5	4P (5D)6D
145.8920	-6.892	23031.300	1.5	D6S (3F)4F	91575.139	2.5	5P (5D)6P	146.6920	-4.945	31483.176	3.5	D6S (3D)4D	99653.220	4.5	4SP(3G)2G
145.9199	-6.205	22637.205	4.5	D6S (3F)4F	91167.937	3.5	5P (5D)6P	146.6954	-4.669	31483.176	3.5	D6S (3G)4G	94148.510	4.5	4SP(5G)4G
145.9304	-0.861	23317.633	2.5	D5S2 (7S)6S	98898.710	3.5	4P (1G)2G	146.6988	-1.693	25981.629	3.5	D6S (3G)4G	94148.510	4.5	4SP(5G)4G
145.9637	-2.448	30388.542	4.5	D6S (3G)2G	98898.710	3.5	4P (1G)2G	146.7065	-6.623	21508.040	1.5	D7 (5D)2D	89471.365	0.5	5P (5D)6D
145.9841	-4.000	20830.582	2.5	D6S (3P)4P	89331.195	1.5	5P (5D)6F	146.7215	-4.056	26055.423	2.5	D6S (3G)4G	94211.739	2.5	4SP(5P)4F
145.9986	-5.955	21430.359	5.5	D6S (3H)4H	89924.175	5.5	5P (5D)6F	146.7409	-3.780	30388.542	4.5	D6S (3G)2G	98535.850	3.5	4SP(5D)4F
146.0088	-3.478	22409.852	0.5	D6S (3P)4P	90898.873	1.5	4P (3P)4P	146.7493	-3.780	22637.205	4.5	D6S (3F)4F	90780.621	3.5	5P (5D)4F
146.0159	-5.147	21581.638	4.5	D6S (3H)4H	90067.347	4.5	5P (5D)6F	146.7644	-8.245	21508.040	1.5	D7 (5D)2D	89444.458	2.5	4SP(5P)6P
146.0683	-4.608	21581.638	4.5	D6S (3H)4H	90042.779	4.5	4P (3F)4G	146.7691	-2.979	30764.485	3.5	D6S (3G)2G	98898.710	3.5	4P (1G)2F
146.0922	-5.167	977.053	0.5	D6S (5D)6D	69426.980	0.5	4SP(5S)4F	146.7757	-3.357	22939.358	2.5	D6S (3F)4F	91070.547	2.5	5P (5D)4F
146.1090	-3.737	1872.567	4.5	D7 (5D)4F	70314.604	4.5	4P (3G)2G	146.8237	-4.096	22939.358	2.5	D6S (3F)4F	91048.256	1.5	5P (5D)4D
146.1145	-3.580	862.613	1.5	D6S (5D)6D	69302.090	1.5	4SP(5S)4F	146.8567	-4.466	26392.748	0.5	D6S (3P)2P	95039.200	1.5	4P (3P)2P
146.1247	-3.211	667.683	2.5	D6S (5D)6D	69102.380	2.5	4SP(5S)4P	146.8628	-4.499	26392.748	0.5	D6S (3P)2P	95039.200	1.5	4P (3P)2P
146.1355	-3.729	22409.852	0.5	D6S (3P)4P	90839.480	0.5	4P (3P)4P	146.8843	-4.499	25981.629	3.5	D6S (3G)4G	94057.773	4.5	4SP(5D)6D
146.1551	-4.582	31387.948	2.5	D6S (3D)4D	94211.739	2.5	4SP(5P)4P	146.8943	-4.499	25428.784	5.5	D6S (3G)4G	93484.340	1.5	4P (3F)4F
146.1576	-3.256	21308.040	1.5	D7 (5D)2D	89727.342	2.5	4P (3P)4P	146.9449	-4.032	25787.598	1.5	D6S (3P)2P	93640.340	1.5	4P (3F)4F
146.1766	-7.466	26352.766	4.5	D6S (3H)2H	94763.219	3.5	4SP(5D)6P	146.9556	-8.367	20805.770	4.5	D7 (5D)2H	88853.533	3.5	5P (5D)6D
146.1840	-1.868	18360.646	1.5	D7 (5D)2P	86767.577	2.5	4P (3P)4D	146.9651	-4.014	25787.598	1.5	D6S (3P)2P	93830.979	2.5	4SP(5D)6D
146.1960	-1.581	31999.048	3.5	D7 (5D)2P	86767.577	2.5	4P (3P)4D	146.9651	-4.014	25787.598	1.5	D6S (3P)2P	93830.979	2.5	4SP(5D)6D
146.2319	-1.719	25805.328	4.5	D6S (3G)4G	100400.360	2.5	4SP(3P)2D	146.9740	-3.837	23031.300	1.5	D6S (3P)2P	91070.547	2.5	5P (5D)4F
146.2350	-7.222	20340.300	5.5	D7 (5D)2H	88723.400	4.5	5P (5D)6D	146.9979	-3.388	18360.646	1.5	D7 (5D)2H	86388.820	0.5	4P (3P)4D
146.2480	-3.863	106836.000	3.5	4P2 (7F)8P	38458.981	4.5	4SP(5P)4D	146.9979	-3.388	18360.646	1.5	D7 (5D)2H	86388.820	0.5	4P (3P)4D
146.2517	-3.394	27620.412	2.5	D6S (3F)2F	95995.690	2.5	4SP(5P)4D	147.0015	-1.945	15844.650	4.5	D7 (5D)2G	83871.184	4.5	4P (1F)2G
146.2896	-4.775	22810.357	3.5	D6S (3F)4F	91167.937	3.5	5P (5D)6P	147.0088	-7.341	21308.040	1.5	D7 (5D)2D	89331.195	1.5	5P (5D)6D
146.2942	-6.390	21711.917	3.5	D6S (3H)4H	90067.347	4.5	5P (5D)6F	147.0092	-5.378	20830.582	2.5	D6S (3P)4P	88853.533	3.5	5P (5D)6D
146.3204	-0.898	25805.328	4.5	D6S (3G)4G	94148.510	4.5	4SP(5G)4G	147.0162	-2.361	26170.181	5.5	D6S (3H)2H	94189.880	5.5	4SP(5G)4G
146.3218	-4.854	21581.638	4.5	D6S (3H)4H	89924.175	5.5	5P (5D)6F	147.0203	-1.882	26055.423	2.5	D6S (3G)4G	94073.240	3.5	4SP(5G)4G
146.3345	-7.675	20516.960	2.5	D7 (5D)2D	88853.533	3.5	5P (5D)6D								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
147.0222	-3.836	23031.300	1.5	D6S (3F)4F	91048.256	1.5	5P (5D)4D	147.7205	-2.863	21308.040	1.5	D7 (5D)2D	89003.460	0.5	4P (3P)2S
147.0255	-3.834	21711.917	3.5	D6S (3H)4H	89727.342	2.5	4P (3F)4G	147.7269	-6.211	20516.960	2.5	D7 (5D)2D	88209.450	3.5	4SP(5P)6D
147.0447	-2.133	25981.629	3.5	D6S (3G)4G	93988.170	2.5	4SP(5G)4G	147.7311	-7.691	22939.358	2.5	D6S (3F)4F	90629.902	1.5	4P (3P)4S
147.0462	-4.951	25981.629	3.5	D6S (3G)4G	93987.457	3.5	4SP(5D)6D	147.7416	-3.123	2837.950	2.5	D7 (5D)4F	70523.706	3.5	4P (3G)2G
147.0528	-2.407	30388.542	4.5	D6S (3G)2G	98391.330	3.5	4SP(5D)4D	147.7491	-1.680	25805.328	4.5	D6S (3G)4G	93487.650	3.5	4P (3F)4F
147.0571	-7.234	0.000	4.5	D6S (3D)6D	68000.788	4.5	4P (3G)2H	147.7557	-1.680	25805.328	4.5	D6S (3G)4G	93484.580	4.5	4P (3F)4F
147.0662	-1.286	31811.822	2.5	D7 (5D)2F	99808.400	3.5	4P (1G)2G	147.7598	-3.646	22637.205	4.5	D6S (3F)4F	90487.810	2.5	5P (5D)6F
147.1057	-4.508	26170.181	5.5	D6S (3H)2H	94148.510	4.5	4SP(5G)4G	147.7903	-3.408	22637.205	4.5	D6S (3F)4F	90300.625	3.5	5P (5D)6F
147.1085	-6.691	106836.000	3.5	4P(2F)8P	3858.958	2.5	4P (5D)6D	147.7993	-4.308	21812.055	1.5	D6S (3P)4P	89471.365	0.5	5P (5D)6D
147.1232	-3.393	22810.357	3.5	D6S (3F)4F	90780.621	3.5	5P (5D)4F	147.8039	-2.285	18886.780	0.5	D7 (5D)2F	86543.974	1.5	4P (3P)4F
147.1416	-3.957	22939.358	2.5	D6S (3F)4F	90901.124	2.5	5P (5D)4F	147.8105	-0.735	31999.048	3.5	D7 (5D)2F	99653.220	4.5	4SP(3G)2G
147.1456	-5.381	7955.299	3.5	D6S (5D)4D	75915.215	2.5	4P (3D)2F	147.8106	-4.457	22939.358	2.5	D6S (3F)4F	90593.497	1.5	5P (5D)6F
147.1464	-5.773	22939.358	2.5	D6S (3F)4F	90898.873	1.5	4P (3P)4F	147.8292	-4.961	7955.299	3.5	D6S (3D)4D	75600.931	3.5	4P (3D)2F
147.1714	-3.426	26932.748	0.5	D6S (3G)2P	94880.740	0.5	4SP(5P)4P	147.8344	-1.641	31364.440	1.5	D6S (3D)4D	99007.700	0.5	4SP(5D)4D
147.2044	-1.159	26055.423	2.5	D6S (3G)2G	93988.170	2.5	4SP(5G)4G	147.8432	-1.565	31368.440	0.5	D6S (3D)4D	99007.700	0.5	4SP(5D)4D
147.2060	-6.593	26055.423	2.5	D6S (3G)4G	93987.457	3.5	4SP(5D)6D	147.8492	-1.286	31999.048	3.5	D7 (5D)2F	99635.450	3.5	4SP(3G)2G
147.2372	-8.919	20805.770	4.5	D7 (5D)2H	88723.400	4.5	5P (5D)6D	147.8531	-6.284	26352.766	4.5	D6S (3H)2H	93987.457	3.5	4SP(5D)6D
147.2423	-7.838	21812.055	1.5	D6S (3P)4P	89727.342	2.5	4P (3F)4G	147.8581	-4.416	21812.055	1.5	D6S (3F)4F	89444.458	2.5	4SP(5P)6P
147.2819	-6.027	8680.454	1.5	D6S (5D)4D	76577.482	0.5	4P (1S)2P	147.8703	-3.433	30764.485	3.5	D6S (3G)2G	98391.330	3.5	4SP(5D)4D
147.2944	-4.859	30388.542	4.5	D6S (3G)2G	91208.887	1.5	5P (5D)4F	147.8920	-5.582	23031.300	1.5	D6S (3F)4F	90648.217	0.5	5P (5D)6F
147.2966	-2.784	26170.181	5.5	D6S (3H)2H	94057.773	4.5	4SP(5D)6D	147.8940	-7.736	384.790	3.5	D6S (5D)6D	68000.788	4.5	4P (3G)2H
147.3023	-4.256	26170.181	5.5	D6S (3H)2H	94057.773	4.5	4SP(5D)6D	147.9120	-6.003	25787.598	1.5	D6S (3P)2P	93395.360	2.5	4P (3F)4F
147.3090	-3.027	2430.097	3.5	D7 (5D)4F	70314.604	4.5	4P (3G)2G	147.9125	-4.433	23031.300	1.5	D6S (3F)4F	90638.822	2.5	5P (5D)4D
147.3409	-4.486	23031.300	1.5	D6S (3F)4F	90901.124	2.5	5P (5D)4F	147.9321	-6.643	23031.300	1.5	D6S (3F)4F	90629.902	1.5	4P (3P)4S
147.3458	-4.873	23031.300	1.5	D6S (3F)4F	90898.873	1.5	4P (3D)4P	147.9505	-5.846	30764.485	3.5	D6S (3G)2G	98354.660	2.5	4SP(5D)4F
147.3833	-0.414	23317.633	2.5	D5S(2F)6S	91167.937	3.5	5P (5D)6P	147.9563	-5.873	22810.357	3.5	D6S (3F)4F	90397.868	3.5	5P (5D)4D
147.3853	-3.930	25981.629	3.5	D6S (3G)4G	93830.979	2.5	4SP(5D)6D	147.9651	-3.302	23317.633	2.5	D5S(2F)6S	90901.124	2.5	5P (5D)4P
147.4029	-3.839	22939.358	2.5	D6S (3F)4F	90780.621	3.5	5P (5D)4F	147.9701	-3.211	23317.633	2.5	D5S(2F)6S	90898.873	1.5	4P (3P)4P
147.4119	-4.595	36126.387	1.5	D6S (3H)2H	103967.490	0.5	4SP(3P)2S	147.9812	-3.912	22810.357	3.5	D6S (3F)4F	90386.528	4.5	5P (5D)4F
147.4227	-4.328	30764.485	3.5	D6S (3G)2G	98596.850	4.5	4SP(5D)4F	148.0118	-2.149	23031.300	1.5	D6S (3F)4F	90211.700	5.5	4P (3F)4G
147.4411	-1.307	31811.822	2.5	D7 (5D)2F	99635.520	3.5	4SP(3G)2G	148.0419	-3.633	22939.358	2.5	D6S (3F)4F	90487.810	2.5	5P (5D)6F
147.4624	-5.785	21812.055	1.5	D7 (5D)2D	89119.457	2.5	4P (1G)2G	148.0452	-5.966	21581.638	4.5	D6S (3H)4H	89128.561	3.5	4SP(5P)6D
147.4678	-9.250	21308.040	1.5	D7 (5D)2D	89119.457	2.5	4P (5D)6D	148.0551	-5.493	20516.960	2.5	D7 (5D)2D	88059.380	2.5	4SP(5P)6D
147.4723	-1.377	31999.048	3.5	D7 (5D)2F	99808.400	3.5	4P (1G)2G	148.0551	-5.493	20516.960	2.5	D7 (5D)2D	88059.380	2.5	4SP(5P)6D
147.4736	-8.522	20805.770	4.5	D7 (5D)2H	88614.520	4.5	4SP(5P)6D	148.0971	-6.322	8391.938	2.5	D6S (5D)4D	75915.215	2.5	4P (3D)2F
147.4748	-7.035	23031.300	1.5	D6S (3F)4F	90839.480	0.5	4P (3P)4P	148.1062	-6.726	21812.055	1.5	D6S (3P)4P	89331.195	1.5	5P (5D)6D
147.4787	-3.729	26932.748	0.5	D6S (3P)2P	94739.170	1.5	4SP(5P)4P	148.1123	-6.370	0.000	4.5	D6S (5D)6D	67516.332	5.5	4P (3G)2H
147.5019	-2.950	26352.766	4.5	D6S (3H)2H	94148.510	4.5	4SP(5G)4G	148.1349	-1.817	25981.629	3.5	D6S (3G)4G	93487.650	3.5	4P (3F)4F
147.5234	-4.491	26055.423	2.5	D6S (3G)4G	93840.340	1.5	4SP(5D)6D	148.1437	-2.907	18886.780	0.5	D7 (5D)2P	93484.580	4.5	4P (3F)4F
147.5458	-4.639	26055.423	2.5	D6S (3G)2G	93830.979	2.5	4SP(5D)6D	148.1437	-2.907	18886.780	0.5	D7 (5D)2P	93484.580	4.5	4P (3F)4F
147.5549	-3.285	30764.485	3.5	D6S (3G)2G	98535.850	3.5	4SP(5D)4F	148.1441	-3.384	16369.360	3.5	D7 (5D)2G	83871.184	4.5	4P (1F)2G
147.5694	-1.180	27314.922	3.5	D6S (3F)2F	95079.640	3.5	4P (3F)2F	148.1501	-3.747	16369.360	3.5	D7 (5D)2G	83868.450	2.5	4P (1F)2D
147.5782	-4.107	22637.205	4.5	D6S (3F)4F	90397.868	3.5	4P (5D)4F	148.1629	-4.025	22810.357	3.5	D6S (3F)4F	90300.625	3.5	5P (5D)6F
147.5839	-1.231	31999.048	3.5	D7 (5D)2F	99757.120	4.5	4P (1G)2G	148.2298	-4.142	30388.542	4.5	D6S (3G)2G	97851.350	4.5	4P (1G)2H
147.5951	-3.105	23317.633	2.5	D5S(2F)6S	91070.527	2.5	5P (5D)4F	148.2377	-4.094	15844.650	4.5	D7 (5D)2G	83305.231	3.5	4P (1F)2G
147.6030	-3.105	23317.633	2.5	D5S(2F)6S	91070.527	2.5	5P (5D)4F	148.2437	-4.189	15844.650	4.5	D7 (5D)2G	83305.231	3.5	4P (1F)2G
147.6219	-3.066	30764.485	3.5	D6S (3G)2G	98505.100	2.5	4SP(5D)4D	148.2437	-4.189	15844.650	4.5	D7 (5D)2G	83305.231	3.5	4P (1F)2G
147.6287	-4.525	8391.938	2.5	D6S (3H)4H	76129.446	1.5	4P (1S)2P	148.2692	-4.325	8680.454	1.5	D6S (5D)4D	76129.446	1.5	4P (1S)2P
147.6394	-4.383	1872.567	4.5	D7 (5D)4F	69606.552	3.5	4P (3G)2G	148.2692	-4.325	8680.454	1.5	D6S (5D)4D	76129.446	1.5	4P (1S)2P
147.6425	-2.408	27314.922	3.5	D6S (3F)2F	95046.100	2.5	4P (3F)2F	148.2970	-3.005	26055.423	2.5	D6S (3G)4G	93487.650	3.5	4P (3F)4F
147.6435	-4.830	8846.768	0.5	D6S (5D)4D	76577.482	0.5	4P (1S)2P	148.3016	-3.845	22637.205	4.5	D6S (3F)4F	90067.347	4.5	5P (5D)6F
147.6435	-4.830	8846.768	0.5	D6S (5D)4D	76577.482	0.5	4P (1S)2P	148.3114	-1.296	27620.412	2.5	D6S (3F)2F	95046.100	2.5	4P (3F)2F
147.6658	-3.679	26352.766	4.5	D6S (3H)2H	94073.240	3.5	4SP(5G)4G	148.3114	-1.296	27620.412	2.5	D6S (3F)2F	95046.100	2.5	4P (3F)2F
147.6996	-5.632	26352.766	4.5	D6S (3H)2H	94057.773	4.5	4SP(5D)6D	148.3266	-2.448	27620.412	2.5	D6S (3F)2F	95039.200	1.5	4P (3P)2P
147.7117	-4.165	22939.358	2.5	D6S (3F)4F	90638.822	2.5	5P (5D)4D	148.3313	-7.437	21711.917	3.5	D6S (3H)4H	89128.561	3.5	4SP(5P)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
148.3338	-1.416	1483.176	3.5	D6S (3D)4D	98898.710	3.5	4P (1G)2F	149.0757	3.500	22810.357	3.5	D6S (3F)4F
148.3377	-1.591	25981.629	3.5	D6S (3G)4G	93395.360	2.5	4P (3F)4F	149.0880	-3.184	26055.423	2.5	D6S (3G)4G
148.3514	-7.831	21711.917	3.5	D6S (3H)4H	89119.457	2.5	5P (5D)6D	149.1098	-4.619	27620.412	2.5	D6S (3F)2F
148.3554	-1.311	31364.440	1.5	D6S (3F)4F	98770.140	1.5	4SP (5D)4D	149.1168	-5.116	22409.852	0.5	D6S (3F)4F
148.3557	-3.692	22637.205	4.5	D6S (3F)4F	90042.779	4.5	4SP (3F)4D	149.1303	-7.179	20516.960	2.5	D7 (5D)2D
148.3599	-7.334	20805.770	4.5	D7 (5D)2H	88209.450	3.5	4SP (5F)6D	149.1365	-1.520	31483.176	3.5	D6S (3D)4D
148.3642	-1.571	31368.450	0.5	D6S (3D)4D	98770.140	1.5	4SP (5D)4D	149.1387	-8.219	105711.730	2.5	5D (5D)6S
148.3994	-1.491	27314.922	3.5	D6S (3F)2F	98700.660	2.5	4P (3F)2D	149.1805	-8.273	21581.638	4.5	D6S (3H)4H
148.4145	-6.078	20830.582	2.5	D6S (3P)4P	88209.450	2.5	4SP (5F)6D	149.2077	-5.883	20516.960	2.5	D7 (5D)2D
148.4337	-3.608	27314.922	3.5	D6S (3F)2F	94685.090	3.5	4SP (5D)6P	149.2227	-4.191	44915.046	3.5	D6S (1F)2F
148.4533	-3.929	22939.358	2.5	D6S (3F)4F	90300.625	3.5	5P (5D)6F	149.2282	-6.842	21711.917	3.5	D6S (3B)4H
148.5003	-1.813	26055.423	2.5	D6S (3G)4G	93395.360	2.5	4P (3F)4F	149.2462	-1.455	31387.948	2.5	D6S (3D)4D
148.5342	-1.745	25805.328	4.5	D6S (3G)4G	93129.900	3.5	4P (3F)4D	149.2463	-4.046	25428.784	5.5	D6S (3G)4G
148.5416	-3.417	23317.633	2.5	D5S2(7S)6S	90638.822	2.5	5P (5D)4D	149.2522	-7.951	20340.300	5.5	D7 (5D)2H
148.5566	-2.716	26170.181	5.5	D6S (3H)2H	93484.580	4.5	4P (3F)4F	149.2550	-1.024	44929.550	2.5	D6S (1F)2F
148.5613	-3.661	23317.633	2.5	D5S2(7S)6S	90629.902	1.5	4P (3F)4D	149.2578	-1.024	25428.784	5.5	D6S (3G)4G
148.5721	-4.466	18112.055	1.5	D6S (3P)4P	89119.457	2.5	5P (5D)6D	149.2755	-1.666	31364.440	1.5	D6S (3D)4D
148.6038	-4.662	21430.359	5.5	D6S (3H)4H	88723.400	4.5	5P (5D)6D	149.2916	-4.074	23317.633	2.5	D5S2(7S)6S
148.6172	-2.761	22637.205	4.5	D6S (3F)4F	89924.175	5.5	5P (5D)6F	149.3120	-2.567	31364.440	1.5	D6S (3D)4D
148.6267	-4.967	8846.768	0.5	D6S (5D)4D	76129.446	1.5	4P (1S)2P	149.3279	-1.100	31387.948	2.5	D6S (3D)4D
148.6417	-5.118	23317.633	2.5	D5S2(7S)6S	90593.497	1.5	5P (5D)6F	149.3279	-1.100	31387.948	2.5	D6S (3D)4D
148.6479	-1.530	26055.423	2.5	D6S (3G)4G	93328.480	1.5	4P (3F)4D	149.3466	-3.460	31811.822	2.5	D7 (5D)2F
148.6505	-7.043	21581.638	4.5	D6S (3H)4H	88853.533	3.5	5P (5D)6D	149.3629	-2.295	22939.358	2.5	D6S (3F)4F
148.6834	-4.358	22810.357	3.5	D6S (3F)4F	90067.347	3.5	5P (5D)6F	149.3665	-2.417	31387.948	2.5	D6S (3D)4D
148.6919	-4.767	22637.205	4.5	D6S (3F)4F	89890.373	3.5	4P (3F)4G	149.3967	-2.150	16369.360	3.5	D7 (5D)2G
148.7326	-7.433	8680.454	1.5	D6S (5D)4D	75915.215	2.5	4P (3D)2F	149.4081	-1.731	36252.918	2.5	D6S (3D)2D
148.7378	-2.168	22810.357	3.5	D6S (3F)4F	90042.779	4.5	4P (3F)4D	149.4292	-4.333	22409.852	0.5	D6S (3F)4F
148.7458	-4.516	20830.582	2.5	D6S (3P)4P	88059.380	2.5	4SP (5F)6D	149.4376	-2.216	25981.629	3.5	D6S (3G)4G
148.7644	-4.985	2430.097	3.5	D7 (5D)4F	69650.484	2.5	4P (3G)2F	149.4389	-4.783	22810.357	3.5	D6S (3D)4D
148.7739	-6.572	22409.852	0.5	D6S (3P)4P	89625.940	1.5	4SP (5F)6P	149.4586	-6.623	31483.176	3.5	D6S (3F)4D
148.7896	-4.780	8391.938	2.5	D6S (5D)4D	75600.931	3.5	4P (3D)2F	149.4595	-3.009	25787.598	1.5	D6S (3F)2F
148.7924	-2.149	36126.387	1.5	D6S (3D)2D	103334.100	2.5	4SP (3D)2F	149.4599	-6.405	26932.748	0.5	D6S (3P)2D
148.8286	-5.749	21812.055	1.5	D6S (3P)4P	89003.460	0.5	4P (3P)2S	149.4710	-8.847	21711.917	3.5	D6S (3H)4H
148.8446	-5.252	21430.359	5.5	D6S (3H)4H	88614.520	4.5	4SP (5F)6D	149.4776	-0.709	31999.048	3.5	D7 (5D)2F
148.8617	-4.599	2430.097	3.5	D7 (5D)4F	69606.552	3.5	4P (3G)2F	149.4788	-2.708	33501.253	3.5	D6S (1G)2G
148.8756	-4.260	23317.633	2.5	D5S2(7S)6S	90487.810	2.5	5P (5D)6F	149.4839	-3.905	27314.922	3.5	D6S (3F)2F
148.9242	-2.943	25981.629	3.5	D6S (3G)4G	93129.900	3.5	4P (3F)4D	149.5406	-2.717	25428.784	5.5	D6S (3G)4G
148.9250	-2.943	31387.948	2.5	D6S (3D)4D	98535.850	3.5	4SP (5D)4F	149.5406	-1.719	31483.176	3.5	D6S (3D)4D
148.9363	-7.236	27620.412	2.5	D6S (3F)2F	94763.219	3.5	4SP (5D)6P	149.5665	-4.605	25787.598	1.5	D6S (3P)2D
148.9386	-5.442	21581.638	4.5	D6S (3H)4H	88723.400	4.5	5P (5D)6D	149.5824	-2.586	105711.730	2.5	5D (5D)6S
148.9389	-6.456	21711.917	3.5	D6S (3H)4H	88853.533	3.5	5P (5D)6D	149.5949	-2.833	32909.905	5.5	D6S (1I)2I
148.9410	-1.711	31364.440	1.5	D6S (3D)4D	98505.100	2.5	4SP (5D)4D	149.6026	-2.575	26055.423	2.5	D6S (3G)4G
148.9539	-3.663	26352.766	4.5	D6S (3H)2H	93484.580	3.5	4P (3F)4F	149.6254	-3.715	27314.922	3.5	D6S (3F)2F
148.9557	-5.641	20830.582	2.5	D6S (3P)4P	87964.650	1.5	4SP (5F)6D	149.6299	-2.906	31364.440	1.5	D6S (3D)4D
148.9607	-4.423	26352.766	4.5	D6S (3H)2H	93484.580	4.5	4P (3F)4F	149.6389	-3.696	31368.450	0.5	D6S (3D)4D
148.9614	-5.931	20340.300	5.5	D7 (5D)2H	87471.765	4.5	4SP (5G)6F	149.6526	-0.833	25428.784	5.5	D6S (3G)4G
148.9896	-3.877	27620.412	2.5	D6S (3F)2F	94739.170	1.5	4SP (5F)6P	149.6660	-3.952	109473.650	4.5	4SD(7S)8D
148.9932	-1.332	31387.948	2.5	D6S (3D)4D	98505.100	2.5	4SP (5D)4D	149.6725	-4.573	2837.950	2.5	D7 (5D)4F
149.0014	-2.730	31483.176	3.5	D6S (3D)4D	98596.650	4.5	4SP (5D)4F	149.6826	-3.200	31387.948	2.5	D6S (3D)4D
149.0055	-6.921	25787.598	1.5	D6S (3P)2P	92899.200	2.5	4P (3F)4D	149.6894	-4.154	109463.220	3.5	4SD(7S)8D
149.0343	-3.921	26932.748	0.5	D6S (3F)2F	94031.378	0.5	4P (5D)6D	149.7065	-1.707	25805.328	4.5	D6S (3G)4G
149.0604	-1.008	31811.822	2.5	D7 (5D)2F	89898.710	3.5	4P (1G)2F	149.7073	-4.635	109455.250	2.5	4SD(7S)8D
149.0605	-2.791	30764.485	3.5	D6S (3G)2G	97851.350	4.5	4P (1G)2H	149.7241	-3.469	105449.540	3.5	5D (5D)4G
149.0640	-7.247	20516.960	2.5	D7 (5D)2D	87602.250	1.5	4SP (5G)6F	149.7275	-3.529	22939.358	2.5	D6S (3F)4F
149.0731	-2.209	36252.918	2.5	D6S (3D)2D	103334.100	2.5	4SP (3D)2F	149.7519	-3.790	26352.766	4.5	D6S (3H)2H
149.0752	-2.834	27620.412	2.5	D6S (3F)2F	94700.660	2.5	4P (3F)2D	149.7638	-3.522	105630.750	2.5	5D (5D)4G
149.0752	-3.326	23317.633	2.5	D5S2(7S)6S	90397.868	3.5	5P (5D)4D	149.7641	-5.201	20830.582	2.5	D6S (3F)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
149.7710	-5.011	2837.950	2.5	D7 (5D)4F	69606.552	3.5	4P (3G)2F	150.3874	-3.698	25805.328	4.5	D6S (3G)4G
149.7941	-3.280	27314.922	3.5	D6S (3F)2F	94073.240	3.5	4SP(5G)4G	150.3955	-5.116	22637.205	4.5	D6S (3F)4F
149.8079	-3.185	105211.140	4.5	5D (5D)4G	38458.981	4.5	4P (5D)4G	150.4064	-4.617	25787.598	1.5	D6S (3P)2F
149.8097	-6.642	21308.040	1.5	D7 (5D)2D	88059.380	2.5	4SP(5P)6D	150.4277	-1.419	25805.328	4.5	D6S (3G)4G
149.8277	-3.045	32905.905	5.5	D6S (11)2I	99653.220	4.5	4SP(3G)2G	150.4571	-7.629	2837.950	2.5	D7 (5D)4F
149.8286	-2.225	25428.784	5.5	D6S (3G)4G	92171.716	4.5	4P (3F)2G	150.4585	-6.377	0.000	4.5	D6S (5D)6D
149.8288	-7.703	27314.922	3.5	D6S (3F)2F	94057.773	4.5	4SP(5D)6D	150.4827	-4.714	27620.412	2.5	D6S (3F)2F
149.8310	-4.717	20830.582	2.5	D6S (3P)4F	87572.431	2.5	4SP(5G)6F	150.4996	-2.684	25981.629	3.5	D6S (3G)4G
149.8348	-3.648	37227.326	0.5	D6S (18)2S	103967.490	0.5	4SP(3P)2S	150.5116	-6.337	23031.300	1.5	D6S (3F)4F
149.8401	-3.932	25428.784	5.5	D6S (3G)4G	92166.600	5.5	4SP(5G)4H	150.5164	-4.015	25787.598	1.5	D6S (3P)2F
149.8534	-6.568	20805.770	4.5	D7 (5D)2H	87537.652	3.5	4SP(5G)6F	150.5373	-4.304	25787.598	1.5	D6S (3P)2F
149.8710	-3.334	31811.822	2.5	D7 (5D)2F	98535.850	3.5	4SP(5D)4F	150.5701	-2.810	104873.230	3.0	5D (5D)4F
149.8941	-2.607	25981.629	3.5	D6S (3G)4G	92695.374	2.5	4P (3P)2D	150.5726	-8.376	23031.300	1.5	D6S (3F)4F
149.9091	-5.677	20830.582	2.5	D6S (3P)4F	87537.652	3.5	4SP(5G)6F	150.5736	-1.802	20316.960	2.5	D7 (5D)2D
149.9284	-2.655	105711.730	2.5	D5D (5D)6S	39013.206	1.5	4P (5D)6F	150.5770	-7.271	862.163	1.5	D6S (5D)6S
149.9339	-2.448	23031.300	1.5	D6S (3F)4F	89727.342	2.5	4P (3F)4G	150.5804	-6.590	23317.633	2.5	D5S2(7S)6D
149.9479	-4.924	108804.667	3.5	5S (3D)4D	42114.818	4.5	4P (5D)6F	150.5808	-3.885	104868.500	4.5	5D (5D)6G
149.9520	-3.033	25428.784	5.5	D6S (3G)4G	92116.780	4.5	4SP(5G)4H	150.5897	-3.147	105065.630	3.5	5D (5D)6G
149.9552	-9.285	22939.358	2.5	D6S (3F)4F	89625.940	1.5	4SP(5P)6F	150.5923	-2.167	104863.430	5.5	5D (5D)4G
149.9852	-4.431	27314.922	3.5	D6S (3F)2F	93988.170	2.5	4SP(5D)6D	150.6121	-3.740	26932.748	0.5	D6S (3P)2F
149.9868	-4.756	27314.922	3.5	D6S (3F)2F	93987.457	3.5	4SP(5D)6D	150.6199	-4.643	31999.048	3.5	D7 (5D)2D
149.9872	-8.610	0.000	4.5	D6S (5D)4D	66672.334	3.5	4SP(5G)4G	150.6209	-5.526	22939.358	2.5	D6S (3F)4F
149.9874	-7.578	2430.097	3.5	D7 (5D)4D	69102.380	2.5	4SP(5S)4F	150.6383	-3.086	31811.822	2.5	D7 (5D)2F
150.0015	-7.366	20805.770	4.5	D7 (5D)2H	87471.765	4.5	4SP(5G)6F	150.6536	-0.651	36126.387	1.5	D6S (3D)2D
150.0018	-5.544	25787.598	1.5	D6S (3P)2F	92453.460	0.5	4P (3F)4D	150.6540	-5.149	0.000	4.5	D6S (5D)6D
150.0226	-5.939	21308.040	1.5	D7 (5D)2D	87964.650	1.5	4SP(5P)6D	150.6756	-2.715	27620.412	2.5	D6S (3F)2F
150.0340	-3.266	7955.299	3.5	D6S (5D)4D	74606.841	2.5	4P (3D)2D	150.6772	-5.875	27620.412	2.5	D6S (3F)2F
150.0601	-2.889	26055.423	2.5	D6S (3G)4G	92695.374	2.5	4P (3P)2D	150.6787	-3.170	25805.328	4.5	D6S (3G)4G
150.0733	-6.089	22810.357	3.5	D6S (3F)4F	88209.450	3.5	4SP(5P)6F	150.6903	-0.922	25805.328	4.5	D6S (3G)4G
150.0875	-5.109	21581.638	4.5	D6S (3H)4H	89444.458	2.5	4SP(5D)6F	150.7032	-2.942	31999.048	3.5	D7 (5D)2F
150.0897	-2.542	25805.328	4.5	D6S (3G)4G	92432.136	5.5	4SP(5D)6F	150.7185	-3.243	25805.328	4.5	D6S (3G)4G
150.1014	-1.601	25805.328	4.5	D6S (3G)4G	92426.980	4.5	4SP(5G)4F	150.7199	-1.546	25981.629	3.5	D6S (3G)4G
150.1027	-2.166	25805.328	4.5	D6S (3G)4G	92426.980	4.5	4SP(5G)4F	150.7217	-5.346	21711.919	3.5	D6S (3H)4H
150.1147	-7.152	384.790	3.5	D6S (5D)6D	67000.517	2.5	4P (3F)2D	150.7231	-3.950	103205.790	2.5	5D (5D)6G
150.1352	-3.763	105065.630	3.5	5D (5D)6G	67000.517	2.5	4P (3F)2D	150.7342	-3.172	33466.463	4.5	D6S (1G)2G
150.1363	-7.252	667.683	2.5	D6S (5D)6D	38458.981	4.5	4P (5D)6D	150.7549	-5.968	667.683	2.5	D6S (5D)6D
150.1556	-3.405	31999.048	3.5	D7 (5D)2F	89596.650	4.5	4SP(5D)4F	150.7662	-9.973	21308.040	1.5	D7 (5D)2D
150.1622	-7.337	23031.300	1.5	D6S (3F)4F	89625.940	1.5	4SP(5P)6F	150.7779	-1.592	36126.387	1.5	D6S (3D)2D
150.1646	-5.345	22409.852	0.5	D6S (3P)4F	89003.460	0.5	4P (3P)2S	150.7872	-2.724	25981.629	3.5	D6S (3G)4G
150.1680	-2.332	26055.423	2.5	D6S (3G)4G	92647.510	1.5	4P (3F)4D	150.7882	-6.505	22810.357	3.5	D6S (3F)4F
150.1697	-4.411	27620.412	2.5	D6S (3F)2F	94211.739	2.5	4SP(5P)4F	150.8035	-3.257	25805.328	4.5	D6S (3G)4G
150.1714	-3.720	105449.540	3.5	5D (5D)4G	94211.739	2.5	4SP(5P)4F	150.8079	-8.407	3117.461	1.5	D7 (5D)4F
150.1725	-7.930	21308.040	1.5	D7 (5D)2D	87898.120	0.5	4SP(5G)6F	150.8089	-4.907	22810.357	3.5	D6S (3F)4F
150.1749	-9.936	0.000	4.5	D6S (5D)6D	66589.008	4.5	4P (3G)4G	150.8107	-1.873	23317.633	2.5	D5S2(7S)6S
150.2116	-7.026	23317.633	2.5	D5S2(7S)6S	89890.373	3.5	4P (3F)4G	150.8133	-4.373	33501.423	2.5	D6S (1G)2G
150.2155	-5.634	25787.598	1.5	D6S (3P)2F	92358.610	3.5	4P (3F)4G	150.8223	-1.690	26055.423	2.5	D6S (3G)4G
150.2605	-2.916	105211.140	4.5	5D (5D)4G	38660.043	3.5	4P (5D)6D	150.8277	-1.815	25981.629	3.5	D6S (3G)4G
150.2691	-6.573	26055.423	2.5	D6S (3G)4G	92602.703	3.5	4P (3F)2F	150.8369	-6.319	23031.300	1.5	D6S (3F)4F
150.2791	-4.766	31811.822	2.5	D7 (5D)2F	98354.660	2.5	4SP(5G)4F	150.8427	-6.720	977.053	0.5	D6S (5D)6D
150.2804	-4.600	25787.598	1.5	D6S (3P)2F	92329.890	2.5	4SP(5D)6D	150.8508	-4.772	21308.040	1.5	D7 (5D)2D
150.2928	-3.215	31999.048	3.5	D7 (5D)2F	89535.850	3.5	4SP(5D)4F	150.8466	-2.288	25981.629	3.5	D6S (3G)4G
150.2964	-9.145	20805.770	4.5	D7 (5D)2H	87340.983	5.5	4SP(5D)4F	150.8579	-7.794	33466.463	4.5	D6S (1G)2G
150.3013	-3.471	3117.461	1.5	D7 (5D)4F	69650.484	2.5	4P (3G)2F	150.8584	-4.584	25805.328	4.5	D6S (3G)4G
150.3145	-7.246	25787.598	1.5	D6S (3P)2F	92314.758	0.5	5P (5D)4P	150.8661	-4.584	105288.530	1.5	5D (3G)6G
150.3396	-4.904	27314.922	3.5	D6S (3F)2F	93830.979	2.5	4SP(5D)6D	150.8877	-2.044	26055.423	2.5	D6S (5D)4G
150.3644	-6.627	22939.358	2.5	D6S (3F)4F	89444.458	2.5	4SP(5P)6F	150.9005	-1.870	105127.770	2.5	5D (5D)4D
150.3815	-7.604	21711.917	3.5	D6S (3H)4H	88209.450	3.5	4SP(5P)6D	150.9105	-6.239	2837.950	2.5	D7 (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
150.9106	-6.605	21308.040	1.5	D7 (5D)2D	151.3130	-7.377	23031.300	1.5	D6S (3F)4F	151.3130	-7.377	23031.300	1.5	D6S (3F)4F
150.9162	-4.749	26170.181	5.5	D6S (3H)2H	151.3175	-4.090	22637.205	4.5	D6S (3F)4F	151.3175	-4.090	22637.205	4.5	D6S (3F)4F
150.9279	-2.225	26170.181	5.5	D6S (3H)2H	151.3178	-7.431	21812.055	1.5	D6S (3F)4F	151.3178	-7.431	21812.055	1.5	D6S (3F)4F
150.9300	-3.926	33501.253	3.5	D6S (1G)2G	151.3307	-3.280	27314.922	3.5	D6S (3F)2F	151.3307	-3.280	27314.922	3.5	D6S (3F)2F
150.9414	-1.557	36252.918	2.5	D6S (3D)2D	151.3317	-1.860	26170.181	5.5	D6S (3H)2H	151.3317	-1.860	26170.181	5.5	D6S (3H)2H
150.9420	-1.958	20516.960	2.5	D7 (5D)2D	151.3332	-4.133	26352.766	4.5	D6S (3H)2H	151.3332	-4.133	26352.766	4.5	D6S (3H)2H
150.9435	-4.352	26352.766	4.5	D6S (3H)2H	151.3450	-3.895	26352.766	4.5	D6S (3H)2H	151.3450	-3.895	26352.766	4.5	D6S (3H)2H
150.9495	-4.771	21812.055	1.5	D6S (3P)4P	151.3704	-8.808	25787.598	1.5	D6S (3P)2P	151.3704	-8.808	25787.598	1.5	D6S (3P)2P
150.9515	-2.511	104705.420	3.5	D7 (5D)6D	151.3870	-6.352	25787.598	1.5	D6S (3P)2P	151.3870	-6.352	25787.598	1.5	D6S (3P)2P
150.9864	-9.152	25787.598	1.5	D6S (3P)2P	151.4111	-1.508	104705.420	3.5	D7 (5D)6D	151.4111	-1.508	104705.420	3.5	D7 (5D)6D
150.9957	-2.805	26055.423	2.5	D6S (3G)4G	151.4161	-5.454	22810.357	3.5	D6S (3F)4F	151.4161	-5.454	22810.357	3.5	D6S (3F)4F
151.0012	-4.327	109463.220	3.5	4SD(7S)8D	151.4202	-3.537	21430.359	5.5	D6S (3H)4H	151.4202	-3.537	21430.359	5.5	D6S (3H)4H
151.0148	-2.801	26055.423	2.5	D6S (3G)4G	151.4300	-3.721	25981.629	3.5	D6S (3G)4G	151.4300	-3.721	25981.629	3.5	D6S (3G)4G
151.0184	-3.257	105230.290	0.5	5D (5D)4D	151.4375	-1.179	20516.960	2.5	D7 (5D)2D	151.4375	-1.179	20516.960	2.5	D7 (5D)2D
151.0194	-4.254	109455.250	2.5	4SD(7S)8D	151.4451	-2.224	20516.960	2.5	D7 (5D)2D	151.4451	-2.224	20516.960	2.5	D7 (5D)2D
151.0202	-4.429	22637.205	4.5	D6S (3F)4F	151.4532	-3.277	104873.230	3.5	5D (5D)4D	151.4532	-3.277	104873.230	3.5	5D (5D)4D
151.0234	-3.815	8391.938	2.5	D6S (5D)4D	151.4840	-3.467	23317.633	2.5	D5S2(7S)6S	151.4840	-3.467	23317.633	2.5	D5S2(7S)6S
151.0273	-1.356	104873.230	3.5	5D (5D)4D	151.4859	-3.986	667.683	2.5	D6S (5D)6D	151.4859	-3.986	667.683	2.5	D6S (5D)6D
151.0324	-4.394	109449.530	1.5	4SD(7S)8D	151.5116	-4.504	18360.646	1.5	D7 (5D)2D	151.5116	-4.504	18360.646	1.5	D7 (5D)2D
151.0333	-5.049	27620.412	2.5	D6S (3F)2F	151.5171	-4.713	18360.646	1.5	D7 (5D)2D	151.5171	-4.713	18360.646	1.5	D7 (5D)2D
151.0381	-2.255	104868.500	4.5	5D (5D)6G	151.5234	-3.078	26170.181	5.5	D6S (3H)2H	151.5234	-3.078	26170.181	5.5	D6S (3H)2H
151.0422	-2.037	105065.630	3.5	5D (5D)6G	151.5324	-4.538	394.790	3.5	D6S (5D)6D	151.5324	-4.538	394.790	3.5	D6S (5D)6D
151.0478	-6.505	384.790	3.5	D6S (5D)6D	151.5498	-8.215	3117.461	1.5	D7 (5D)4F	151.5498	-8.215	3117.461	1.5	D7 (5D)4F
151.0661	-0.455	36252.918	2.5	D6S (3D)2D	151.5672	-5.152	22637.205	4.5	D6S (3F)4F	151.5672	-5.152	22637.205	4.5	D6S (3F)4F
151.0743	-2.553	105205.790	2.5	5D (5D)6G	151.5791	-6.959	23031.300	1.5	D6S (3F)4F	151.5791	-6.959	23031.300	1.5	D6S (3F)4F
151.0800	-1.998	22939.358	2.5	D6S (3F)4F	151.5859	-1.484	30388.542	4.5	D6S (3G)2G	151.5859	-1.484	30388.542	4.5	D6S (3G)2G
151.0820	-7.945	22939.358	2.5	D6S (3F)4F	151.5977	-0.898	104828.160	2.5	5D (5D)6D	151.5977	-0.898	104828.160	2.5	5D (5D)6D
151.0876	-4.054	33466.463	4.5	D6S (1G)2G	151.6028	-2.851	20516.960	2.5	D7 (5D)2D	151.6028	-2.851	20516.960	2.5	D7 (5D)2D
151.0925	-6.796	3117.461	1.5	D7 (5D)4F	151.6162	-3.998	21581.638	4.5	D6S (3H)4H	151.6162	-3.998	21581.638	4.5	D6S (3H)4H
151.1028	-6.605	22939.358	2.5	D6S (3F)4F	151.6238	-0.849	104411.690	4.5	5D (5D)6D	151.6238	-0.849	104411.690	4.5	5D (5D)6D
151.1048	-3.336	105288.530	1.5	5D (5D)6G	151.6378	-4.151	26170.181	5.5	D6S (3H)2H	151.6378	-4.151	26170.181	5.5	D6S (3H)2H
151.1197	-4.864	27314.922	3.5	D6S (3F)2F	151.6416	-6.109	667.683	2.5	D6S (5D)6D	151.6416	-6.109	667.683	2.5	D6S (5D)6D
151.1201	-3.673	25981.629	3.5	D6S (3G)4G	151.6569	-2.497	31387.948	2.5	D6S (3D)4D	151.6569	-2.497	31387.948	2.5	D6S (3D)4D
151.1256	-4.888	26055.423	2.5	D6S (3F)2F	151.6599	-2.763	20830.582	2.5	D6S (3P)4P	151.6599	-2.763	20830.582	2.5	D6S (3P)4P
151.1267	-4.056	27314.922	3.5	D6S (3F)2F	151.6730	-5.698	0.000	4.5	D6S (5D)6D	151.6730	-5.698	0.000	4.5	D6S (5D)6D
151.1280	-2.921	33466.463	4.5	D6S (1G)2G	151.6767	-2.966	26352.766	4.5	D6S (3H)2H	151.6767	-2.966	26352.766	4.5	D6S (3H)2H
151.1467	-2.538	26055.423	2.5	D6S (3G)4G	151.6843	-4.895	8680.454	1.5	D6S (5D)4D	151.6843	-4.895	8680.454	1.5	D6S (5D)4D
151.1656	-7.622	21812.055	1.5	D6S (3P)4P	151.6945	-0.974	104380.940	3.5	5D (5D)6D	151.6945	-0.974	104380.940	3.5	5D (5D)6D
151.1671	-2.576	33501.253	3.5	D6S (1G)2G	151.7124	-5.740	22939.358	2.5	D6S (3F)4F	151.7124	-5.740	22939.358	2.5	D6S (3F)4F
151.1797	-4.021	108804.667	3.5	5S (3D)4D	151.7150	-5.112	22810.357	3.5	D6S (3F)4F	151.7150	-5.112	22810.357	3.5	D6S (3F)4F
151.1992	-5.997	862.613	1.5	D6S (5D)6D	151.7206	-4.438	21430.359	5.5	D6S (3H)4H	151.7206	-4.438	21430.359	5.5	D6S (3H)4H
151.2001	-5.385	384.790	3.5	D6S (5D)6D	151.7678	-4.681	21581.638	4.5	D6S (3H)4H	151.7678	-4.681	21581.638	4.5	D6S (3H)4H
151.2055	-1.073	25981.629	3.5	D6S (3G)4G	151.8205	-4.457	27620.412	2.5	D6S (3F)2F	151.8205	-4.457	27620.412	2.5	D6S (3F)2F
151.2075	-2.928	104593.270	5.5	5D (5D)6G	151.8360	-4.375	26055.423	2.5	D6S (3G)4G	151.8360	-4.375	26055.423	2.5	D6S (3G)4G
151.2075	-3.187	33501.253	3.5	D6S (1G)2G	151.8360	-4.375	26055.423	2.5	D6S (3G)4G	151.8360	-4.375	26055.423	2.5	D6S (3G)4G
151.2075	-4.047	26170.181	5.5	D6S (3H)2H	151.8439	-3.729	21711.917	3.5	D6S (3H)4H	151.8439	-3.729	21711.917	3.5	D6S (3H)4H
151.2211	-7.054	25787.598	1.5	D6S (3P)2P	151.8496	-5.559	13474.411	2.5	D7 (5D)4P	151.8496	-5.559	13474.411	2.5	D7 (5D)4P
151.2214	-3.535	1872.567	4.5	D7 (5D)4F	151.8550	-2.420	31959.048	3.5	D7 (5D)2F	151.8550	-2.420	31959.048	3.5	D7 (5D)2F
151.2246	-1.755	23317.633	2.5	D5S2(7S)6S	151.8588	-3.194	30388.542	4.5	D6S (3G)2G	151.8588	-3.194	30388.542	4.5	D6S (3G)2G
151.2313	-5.985	20805.770	4.5	D7 (5D)2H	151.8684	-1.920	104705.420	3.5	5D (5D)6D	151.8684	-1.920	104705.420	3.5	5D (5D)6D
151.2379	-3.130	105230.290	0.5	5D (5D)4D	151.8958	-4.729	99635.920	3.5	4SP(5G)4H	151.8958	-4.729	99635.920	3.5	4SP(5G)4H
151.2526	-2.260	105127.770	2.5	5D (5D)4D	151.9090	-4.474	30388.542	4.5	D6S (3G)2G	151.9090	-4.474	30388.542	4.5	D6S (3G)2G
151.2685	-3.306	25981.629	3.5	D6S (3G)4G	151.9163	-5.213	21711.917	3.5	D6S (3H)4H	151.9163	-5.213	21711.917	3.5	D6S (3H)4H
151.2719	-4.683	8391.938	2.5	D6S (5D)4D										
151.2881	-2.174	20830.582	2.5	D6S (3P)4P										
151.2888	-2.321	26055.423	2.5	D6S (3G)4G										
151.3103	-3.209	21251.608	6.5	D6S (3H)4H										

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
151.9206	-5.545	21812.055	1.5	D6S (3P)4P	87335.920	0.5	4SP(5P)6D	152.5078	-2.225	13673.185	1.5	D7 (5D)4P
151.9319	-4.404	26352.766	4.5	D6S (3H)2H	92171.716	4.5	4P (3F)2G	152.5146	-1.314	104426.460	2.5	5D (5D)6F
151.9350	-4.751	8680.454	1.5	D6S (5D)4D	74498.057	1.5	4P (3D)2D	152.5179	-4.999	108804.667	3.5	5S (3D)4D
151.9411	-4.423	27314.922	3.5	D6S (3F)2F	93129.900	3.5	4P (3F)4D	152.5407	-5.892	0.000	4.5	D6S (5D)6D
151.9412	-0.904	104828.160	2.5	5D (5D)6D	39013.206	1.5	4P (5D)6D	152.5441	-5.409	22409.852	0.5	D6S (3P)4P
151.9437	-2.520	26352.766	4.5	D6S (3H)2H	92166.600	5.5	4SP(5G)4H	152.5633	-5.327	384.790	3.5	D6S (5D)6D
151.9504	-1.743	23317.633	2.5	D5S2(7S)6S	89128.561	3.5	4SP(5P)6P	152.5743	-0.961	104000.810	3.5	5D (5D)6F
151.9510	-4.056	13474.411	2.5	D7 (5D)4P	79285.110	2.5	4SP(5S)6P	152.5781	-4.927	23317.633	2.5	D5S2(7S)6S
151.9661	-6.869	22810.357	3.5	D6S (3F)4F	88614.520	4.5	4SP(5P)6D	152.6205	-0.732	104380.940	3.5	5D (5D)6F
151.9715	-3.582	26352.766	4.5	D6S (3H)2H	92154.165	3.5	5P (5D)6D	152.6225	-1.048	104630.430	1.5	5D (5D)6F
151.9725	-6.394	26352.766	4.5	D6S (3H)2H	92154.165	3.5	4SP(5D)6P	152.6235	-5.168	26932.748	0.5	D6S (3P)2P
151.9850	-7.051	7955.299	3.5	D6S (5D)4D	73751.282	4.5	4P (11)2H	152.6258	-7.739	26055.423	2.5	D6S (3G)4G
151.9983	-5.303	21812.055	1.5	D6S (3P)4P	87602.250	1.5	4SP(5G)6F	152.6368	-1.071	30764.485	3.5	D6S (3G)2G
152.0033	-5.877	26585.423	2.5	D6S (3G)4G	91843.470	1.5	5P (5D)6P	152.6381	-3.764	31811.822	2.5	D7 (5D)2F
152.0045	-5.650	25577.598	1.5	D6S (3P)2P	91575.139	2.5	5P (5D)6P	152.6496	-5.172	27620.412	2.5	D6S (3F)2F
152.0336	-5.041	27620.412	2.5	D6S (3F)2F	93395.360	2.5	4P (3F)4F	152.6913	-0.451	18360.646	1.5	D7 (5D)2P
152.0409	-3.942	13474.411	2.5	D7 (5D)4P	79246.170	1.5	4SP(5S)6P	152.6991	-0.795	22409.852	0.5	D6S (3P)4P
152.0416	-4.436	104630.430	1.5	5D (5D)6P	38858.958	2.5	4P (5D)6D	152.7198	-1.264	104588.710	1.5	5D (5D)6D
152.0469	-2.889	13474.411	2.5	D7 (5D)4P	79243.600	1.5	4P (1D)2P	152.7239	-0.212	103936.600	5.5	5D (5D)6F
152.0533	-1.056	104426.460	2.5	5D (5D)6F	38660.043	3.5	4P (5D)6D	152.7307	-0.961	30764.485	3.5	D6S (3G)2G
152.0588	-3.272	26352.766	4.5	D6S (3H)2H	92116.780	4.5	4SP(5G)6F	152.7645	-1.125	18886.780	0.5	D7 (5D)2P
152.0673	-6.536	21812.055	1.5	D6S (3P)4P	87572.431	2.5	4SP(5G)6F	152.7661	-0.805	104120.270	2.5	5D (5D)6F
152.0685	-6.177	21711.917	3.5	D6S (3H)4H	87471.765	4.5	4SP(5G)6F	152.7761	-1.843	21308.040	1.5	D7 (5D)2D
152.0696	-5.754	21581.638	4.5	D6S (3H)4H	87340.408	5.5	4SP(5G)6F	152.7815	-6.245	30764.485	3.5	D6S (3G)2G
152.0844	-3.945	38214.507	1.5	D6S (1D)2D	103967.490	0.5	4SP(3P)2S	152.7942	-2.968	36126.387	1.5	D6S (3P)2P
152.0874	-0.595	104411.690	4.5	5D (5D)6D	38660.043	3.5	4P (5D)6D	152.8298	-3.459	33466.463	4.5	D6S (1G)2G
152.0912	-7.079	862.613	1.5	D6S (5D)6D	66612.656	1.5	4P (3G)4F	152.8554	-5.066	25787.598	1.5	D6S (3P)2P
152.1054	-1.260	104757.110	0.5	5D (5D)6D	39013.206	1.5	4P (5D)6D	152.8742	-1.006	104426.460	2.5	5D (5D)6F
152.1225	-3.846	26352.766	4.5	D6S (3H)2H	92089.260	3.5	4P (5D)6D	152.8805	-6.921	667.683	2.5	D6S (5D)6D
152.1381	-1.123	104588.710	1.5	5D (5D)6F	38858.958	2.5	4P (5D)6D	152.8979	-1.936	32875.646	6.5	D6S (11)2I
152.1678	-3.989	20830.582	2.5	D6S (3P)4P	86547.490	2.5	4P (1F)2F	152.9073	-4.665	22810.357	3.5	D6S (3F)4F
152.1728	-3.059	26932.748	0.5	D6S (3P)2P	92647.510	1.5	4P (3F)4D	152.9111	-2.558	33501.253	3.5	D6S (1G)2G
152.1760	-5.655	20830.582	2.5	D6S (3P)4P	86543.974	1.5	4P (3G)4F	152.9378	-7.467	862.613	1.5	D6S (5D)6D
152.1848	-4.874	667.683	2.5	D6S (5D)6D	66377.283	3.5	4P (3G)4F	152.9509	-1.946	27314.922	3.5	D6S (3F)2F
152.1883	-3.743	27620.412	2.5	D6S (3F)2F	93328.480	1.5	4P (3F)4F	152.9780	-3.323	32909.905	5.5	D6S (11)2I
152.2162	-4.097	0.000	4.5	D6S (5D)6D	65696.038	4.5	4P (3G)4G	152.9904	-5.863	0.000	4.5	D6S (5D)6D
152.2221	-6.408	384.790	3.5	D6S (5D)6D	66078.269	2.5	4P (3G)4G	152.9927	-5.514	25805.328	4.5	D6S (3G)4G
152.2377	-4.802	32909.905	5.5	D6S (11)2I	98596.650	4.5	4SP(5D)4F	153.0268	-4.804	21581.638	4.5	D6S (3H)4H
152.2604	-4.299	20805.770	4.5	D7 (5D)2H	86482.700	3.5	4P (1F)2F	153.0425	-4.890	13904.824	0.5	D7 (5D)4P
152.2684	-0.828	30388.542	4.5	D6S (3G)2G	96062.060	5.5	4SP(3G)2H	153.0438	-0.542	104000.810	3.5	5D (5D)6F
152.3004	-5.513	862.613	1.5	D6S (5D)6D	66522.304	2.5	4P (3G)4F	153.0485	-2.200	13904.824	0.5	D7 (5D)4P
152.3179	-4.275	20830.582	2.5	D6S (3P)4P	86482.700	3.5	4P (1F)2F	153.0902	-2.900	36252.918	2.5	D6S (3D)2D
152.3280	-1.323	104757.110	0.5	5D (5D)6D	39109.307	0.5	4P (5D)6D	153.1130	-4.632	384.790	3.5	D6S (5D)6D
152.3374	-2.246	1872.567	4.5	D7 (5D)4F	67316.332	5.5	4P (3G)4F	153.1563	-4.254	26932.748	0.5	D6S (3P)2P
152.3563	-6.576	977.053	0.5	D6S (5D)6D	66612.656	1.5	4P (3G)4F	153.1615	-0.689	103950.590	4.5	4D (3H)4H
152.3741	-4.793	384.790	3.5	D6S (5D)6D	66012.750	4.5	4P (3G)4F	153.1680	-4.857	27314.922	3.5	D6S (3F)2F
152.3990	-1.677	104630.430	1.5	5D (5D)6P	39013.206	1.5	4P (5D)6D	153.1779	-5.532	26932.748	0.5	D6S (3P)2P
152.4113	-4.789	13673.185	1.5	D7 (5D)4P	79285.110	2.5	4SP(5S)6P	153.1794	-5.454	25787.598	1.5	D6S (3P)2P
152.4541	-6.319	25981.629	3.5	D6S (3G)4G	91575.139	2.5	5P (5D)6P	153.1891	-5.310	27620.412	2.5	D6S (3F)2F
152.4565	-2.035	30764.485	3.5	D6S (3G)2G	96356.960	3.0	4SP(3G)2F	153.1945	-3.600	37227.326	0.5	D6S (1S)2S
152.4756	-4.010	27314.922	3.5	D6S (3F)2F	92899.200	2.5	4P (3F)4D	153.1957	-3.781	36126.387	1.5	D6S (3D)2D
152.4854	-6.341	0.000	4.5	D6S (5D)6D	65580.041	5.5	4P (3G)4G	153.2060	-8.243	977.053	0.5	D6S (5D)6D
152.4960	-1.314	104588.710	1.5	5D (5D)6D	39013.206	1.5	4P (5D)6D	153.2095	-5.883	22939.358	2.5	D6S (3F)4F
152.5018	-5.169	13673.185	1.5	D7 (5D)4P	79246.170	1.5	4SP(5S)6P	153.2221	-6.408	384.790	3.5	D6S (5D)6D
152.5035	-5.086	22637.205	4.5	D6S (3F)4F	88209.450	3.5	4SP(5P)6D	152.5078	-2.225	13673.185	1.5	D7 (5D)4P
152.5072	-3.069	2430.097	3.5	D7 (5D)4F	68000.788	4.5	4P (3G)2H	152.5146	-1.314	104426.460	2.5	5D (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	
153.2246	-5.342	667.683	2.5	D6S (5D)6D	65931.334	3.5	4P (3G)4G	153.9849	-1.958	32909.905	5.5	D6S (1I)2I	
153.2301	-0.793	104120.270	2.5	5D (5D)6P	38858.958	2.5	4P (5D)6D	153.9951	-2.828	13904.824	0.5	D7 (5D)4F	
153.2317	-4.803	25787.598	1.5	D6S (3P)2P	91048.256	1.5	5P (5D)4D	154.0041	-5.296	23031.300	1.0	D6S (3F)4F	
153.2533	-3.297	107219.500	4.5	4P2(7P)8P	41968.046	5.5	4P (5D)6F	154.0242	-4.542	33466.463	4.5	D6S (1G)2G	
153.2590	-4.739	22810.357	3.5	D6S (3F)4F	88059.380	2.5	4SP(5P)6D	154.0369	-3.560	25981.629	3.5	D6S (3G)4G	
153.2815	-1.216	21308.040	1.5	D7 (5D)2D	86547.490	2.5	4P (1F)2F	154.0405	-8.664	26932.748	0.5	D6S (3P)2P	
153.2897	-2.272	21308.040	1.5	D7 (5D)2D	86543.974	1.5	4P (1F)2F	154.0475	-3.582	31364.440	1.5	D6S (3D)4D	
153.3009	-3.520	30764.485	3.5	D6S (3G)2G	95995.690	2.5	4SP(5P)4D	154.0578	-7.695	26932.748	0.5	D6S (3P)2P	
153.3129	-6.465	22409.852	0.5	D6S (3H)4H	87635.920	0.5	4SP(5P)6D	154.0806	-4.882	21581.638	4.5	D6S (3H)4H	
153.3325	-6.204	21711.917	3.5	D6S (3P)4P	86929.649	3.5	4P (3F)2F	154.0821	-5.501	22637.423	4.5	D6S (3F)4F	
153.3356	-4.932	13474.411	2.5	D7 (5D)4P	78690.846	2.5	4P (1D)2D	154.1026	-2.251	23317.633	2.5	D5S2(7S)6S	
153.3374	-6.396	862.613	1.5	D6S (5D)6D	67078.269	2.5	4P (3G)4G	154.1033	-3.734	31387.948	2.5	D6S (3D)4D	
153.3921	-6.479	22409.852	0.5	D6S (3P)4P	87602.250	1.5	4SP(5G)6F	154.1455	-3.342	31483.176	3.5	D6S (3D)4D	
153.4025	-4.184	7955.299	3.5	D6S (5D)4D	73143.288	3.5	4P (1G)2G	154.1620	-6.697	23031.300	1.5	D6S (3F)4F	
153.4064	-5.861	25981.629	3.5	D6S (3G)4G	91167.937	3.5	5P (5D)6P	154.1759	-7.418	25787.598	1.5	D6S (3F)2F	
153.4413	-6.457	384.790	3.5	D6S (5D)6D	65556.280	4.5	4P (3H)2H	154.1858	-3.723	27314.922	3.5	D6S (3P)2P	
153.4451	-3.754	38164.194	2.5	D6S (1D)2D	103334.100	2.5	4SP(3D)2F	154.1939	-4.588	33501.253	3.5	D6S (1G)2G	
153.4477	-3.357	13673.185	1.5	D7 (5D)4P	78841.960	0.5	4P (1D)2P	154.1991	-6.087	25787.598	1.5	D6S (3P)2P	
153.4838	-2.811	26055.423	2.5	D6S (3G)4G	91208.887	1.5	5P (5D)4F	154.2009	-4.664	44929.550	2.5	D6S (1F)2F	
153.5111	-1.218	104000.810	3.5	5D (5D)6P	38858.958	2.5	5P (5D)6P	154.2122	-4.188	26055.423	2.5	D6S (3G)4G	
153.5242	-4.193	7955.299	3.5	D6S (5D)4D	73091.590	4.5	4P (1G)2G	154.2176	-4.665	26055.423	2.5	D6S (3G)4G	
153.5386	-4.111	33466.463	4.5	D6S (1G)2G	98596.650	4.5	4SP(5D)4F	154.2203	-3.982	25787.598	1.5	D6S (3P)2P	
153.5626	-4.981	22939.358	2.5	D6S (3F)4F	88059.380	2.5	4SP(5P)6D	154.2276	-4.985	27314.922	3.5	D6S (3F)2F	
153.5636	-3.524	38214.507	1.5	D6S (1D)2D	103334.100	2.5	4SP(3D)2F	154.2363	-4.284	21711.917	3.5	D6S (3H)4H	
153.5779	-6.119	25787.598	1.5	D6S (3P)2P	90901.124	2.5	5P (5D)4P	154.2387	-4.117	22637.423	4.5	D6S (3F)4F	
153.5803	-6.824	26055.423	2.5	D6S (3G)4G	91167.937	3.5	5P (5D)6P	154.2450	-6.085	0	0.000	4.5	D6S (5D)6D
153.5814	-4.051	27314.922	3.5	D6S (3F)2F	92426.980	4.5	4SP(5G)4F	154.2508	-1.988	31387.948	2.5	D6S (3D)4D	
153.5832	-5.106	25787.598	1.5	D6S (3P)2P	90988.873	1.5	4P (3P)4P	154.2849	-8.217	26352.766	4.5	D6S (3H)2H	
153.5870	-7.476	0.000	4.5	D6S (5D)6D	95109.679	3.5	4P (3F)2G	154.2877	-2.782	13673.185	1.5	D7 (5D)4P	
153.5988	-4.062	104120.270	2.5	5D (5D)6P	39013.206	1.5	4P (5D)6D	154.2917	-3.798	33466.463	4.5	D6S (1G)2G	
153.6108	-4.095	107219.500	4.5	4P2(7P)8P	42114.818	4.5	4P (5D)6F	154.3069	-6.741	25787.598	1.5	D6S (3P)2P	
153.6207	-4.853	7955.299	3.5	D6S (1G)2G	73054.881	2.5	4P (1G)2F	154.3166	-3.096	27314.922	3.5	D6S (3F)2F	
153.6360	-2.866	25981.629	3.5	D6S (3G)4G	98596.650	4.5	4SP(5D)4F	154.3215	-5.206	1872.567	4.5	D7 (5D)4F	
153.6552	-3.712	21308.040	1.5	D7 (5D)2D	91070.547	2.5	5P (5D)4F	154.3234	-3.401	25981.629	3.5	D6S (3G)4G	
153.6689	-3.338	27620.412	2.5	D6S (3F)2F	86388.820	0.5	4P (3P)4D	154.3277	-3.321	8391.938	2.5	D6S (3D)4D	
153.6821	-4.533	33466.463	4.5	D6S (1G)2G	92695.374	2.5	4P (3P)2D	154.3617	-2.411	25428.784	5.5	D6S (3G)4G	
153.7023	-3.732	7955.299	3.5	D6S (5D)4D	98555.850	3.5	4SP(5D)4F	154.3821	-4.076	27314.922	3.5	D6S (3F)2F	
153.7145	-4.691	21711.917	3.5	D6S (3H)4H	73016.147	3.5	4P (1G)2F	154.3905	-6.064	21711.917	3.5	D6S (3H)4H	
153.7235	-5.586	25787.598	1.5	D6S (3P)2P	86767.577	2.5	4P (3P)4D	154.4114	-6.668	22810.357	3.5	D6S (3F)4F	
153.7797	-5.868	23031.300	1.5	D6S (3F)4F	90839.480	0.5	4P (3P)4P	154.4369	-5.279	8391.938	2.5	D6S (5D)4D	
153.7820	-4.140	27620.412	2.5	D6S (3F)2F	88059.380	2.5	4SP(5P)6D	154.4598	-2.715	23317.633	2.5	D5S2(7S)6S	
153.7863	-5.283	22939.358	2.5	D6S (3F)4F	92647.510	1.5	4P (3F)4D	154.4683	-2.330	27620.412	2.5	D6S (3F)2F	
153.8000	-2.914	38164.194	2.5	D6S (1D)2D	87964.650	1.5	4SP(5P)6D	154.4777	-1.324	21812.055	1.5	D6S (3P)4P	
153.8044	-2.231	13673.185	1.5	D7 (5D)4P	78690.846	2.5	4SP(3D)2F	154.4833	-2.882	31483.176	3.5	D6S (3D)4D	
153.8104	-3.480	26055.423	2.5	D6S (3G)4G	91070.547	2.5	5P (5D)4F	154.4943	-4.242	22810.357	3.5	D6S (3F)4F	
153.8107	-4.203	27314.922	3.5	D6S (3F)2F	92329.890	2.5	4SP(5G)4F	154.4993	-4.701	26055.423	2.5	D6S (3G)4G	
153.8160	-2.982	13474.411	2.5	D7 (5D)4P	78487.153	1.5	4P (1D)2D	154.5089	-6.942	384.790	3.5	D6S (5D)6D	
153.8631	-3.123	26055.423	2.5	D6S (3G)4G	91048.256	1.5	5P (5D)4D	154.5202	-4.038	106836.000	3.5	D6S (4P2(7P)8P)	
153.8808	-4.610	27314.922	3.5	D6S (3F)2F	92300.277	4.5	4SP(5D)6F	154.5369	-4.171	27620.412	2.5	D6S (3F)2F	
153.8877	-4.630	107219.500	4.5	4P2(7P)8P	42237.033	3.5	4P (5D)6F	154.5504	-5.639	27314.922	3.5	D6S (3F)2F	
153.9047	-2.823	27620.412	2.5	D6S (3G)4G	92602.703	3.5	4P (3F)2G	154.5505	-4.365	22637.423	4.5	D6S (3F)4F	
153.9195	-4.996	31387.948	2.5	D6S (3D)4D	90780.621	3.5	5P (5D)4F	154.5505	-4.365	22637.423	4.5	D6S (3F)4F	
153.9230	-4.826	27314.922	3.5	D6S (3F)2F	96356.960	3.5	4SP(3G)2F	154.5590	-7.075	25787.598	1.5	D6S (3P)2P	
153.9428	-2.754	27314.922	3.5	D6S (3F)2F	92282.460	3.5	4SP(5G)4F	154.5677	-3.841	7955.299	3.5	D6S (5D)4D	
153.9462	-2.551	25428.784	5.5	D6S (3G)4G	90386.528	4.5	5P (5D)4F	154.5706	-3.978	7955.299	3.5	D6S (5D)4D	
153.9515	-2.620	21812.055	1.5	D6S (3P)4P	86767.577	2.5	4P (3P)4D	154.5808	-1.368	30388.542	4.5	D6S (3G)2G	
								154.6451	-2.286	7955.299	3.5	D6S (5D)4D	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL		
154.6481	-3.122	13474.411	2.5	D7	(5D)4P	78137.364	3.5	4P	(1D)2F	155.2874	-4.014	155.2874	-4.014	4P	(1D)2F		
154.6482	-6.037	22939.358	2.5	D6S	(3F)4F	87054.881	2.5	4SP	(1G)2F	155.3160	-3.958	155.3160	-3.958	4P	(1G)2H		
154.6518	-5.498	22810.357	3.5	D6S	(3F)4F	90363.822	2.5	5P	(5D)4D	155.3813	-2.472	155.3813	-2.472	108804.667	3.5	D7	(5D)2F
154.6618	-3.402	25981.629	3.5	D6S	(3G)4G	87471.765	4.5	4SP	(5G)6F	155.4084	-3.403	155.4084	-3.403	33501.253	3.5	D6S	(1G)2G
154.6618	-4.131	27620.412	2.5	D6S	(3F)2F	92274.120	2.5	4P	(3F)4P	155.4184	-5.672	155.4184	-5.672	26055.423	2.5	D6S	(3G)4G
154.6862	-3.310	23317.633	2.5	D5S2	(7S)6S	87964.650	1.5	4SP	(5P)6D	155.4231	-4.108	155.4231	-4.108	30764.485	3.5	D6S	(3G)2G
154.7064	-3.077	25428.784	5.5	D6S	(3G)4G	90067.347	4.5	5P	(3D)6F	155.4843	-2.093	155.4843	-2.093	27620.412	2.5	D6S	(3F)2F
154.7196	-4.482	22939.358	2.5	D6S	(3F)4F	90397.868	3.5	4P	(3G)4H	155.5318	-6.563	155.5318	-6.563	30764.485	3.5	D6S	(3G)2G
154.7239	-1.866	31364.440	1.5	D6S	(3D)4D	95995.690	2.5	4SP	(5P)4D	155.5393	-3.212	155.5393	-3.212	22637.205	4.5	D6S	(3F)4F
154.7408	-4.397	8391.938	2.5	D6S	(5D)4D	90042.779	4.5	4P	(1G)2F	155.5469	-3.252	155.5469	-3.252	38214.507	1.5	D6S	(1D)2D
154.7652	-4.490	25428.784	5.5	D6S	(3G)4G	90422.147	3.5	4P	(3F)4G	155.5575	-2.417	155.5575	-2.417	38164.194	2.5	D6S	(1D)2D
154.7802	-1.530	31387.948	2.5	D6S	(3D)4D	95995.690	2.5	4SP	(5P)4D	155.5582	-3.639	155.5582	-3.639	23317.633	2.5	D5S2	(7S)6S
154.7877	-5.452	23031.300	1.5	D6S	(3F)4F	87635.920	0.5	4SP	(5P)6D	155.5616	-3.608	155.5616	-3.608	7955.299	3.5	D6S	(5D)4D
154.8012	-4.463	106836.000	3.5	4P2	(7F)8P	42237.033	3.5	4P	(5D)6F	155.5655	-1.483	155.5655	-1.483	30764.485	3.5	D6S	(3G)2G
154.8028	-6.395	22939.358	2.5	D6S	(3F)4F	87537.652	3.5	4SP	(5G)6F	155.5787	-5.139	155.5787	-5.139	26932.748	0.5	D6S	(3P)2P
154.8086	-2.175	27620.412	2.5	D6S	(3F)2F	92216.320	1.5	4P	(3P)2D	155.5977	-4.422	155.5977	-4.422	36126.387	1.5	D6S	(3D)2D
154.8166	-4.222	25805.328	4.5	D6S	(3G)4G	90397.868	3.5	5P	(5P)4D	155.6009	-4.671	155.6009	-4.671	26932.748	0.5	D6S	(3P)2P
154.8204	-3.234	1872.567	4.5	D7	(3D)4F	66463.528	5.5	4P	(3G)4H	155.6129	-3.689	155.6129	-3.689	25805.328	4.5	D6S	(3F)2F
154.8386	-3.968	26055.423	2.5	D6S	(3G)4G	90638.822	2.5	5P	(5D)4D	155.6173	-8.798	155.6173	-8.798	27314.922	3.5	D6S	(3F)2F
154.8411	-2.781	13904.824	0.5	D7	(5D)4P	78487.153	1.5	4P	(1D)2D	155.6180	-3.776	155.6180	-3.776	8391.938	2.5	D6S	(5D)4D
154.8438	-3.532	25805.328	4.5	D6S	(3G)4G	90386.528	4.5	5P	(5D)4F	155.6192	-3.133	155.6192	-3.133	103118.400	1.5	6S	(5D)4D
154.8545	-5.593	21812.055	1.5	D6S	(3P)4P	86388.820	0.5	4P	(3P)4S	155.6304	-3.298	155.6304	-3.298	23317.633	2.5	D5S2	(7S)6S
154.8599	-5.968	26055.423	2.5	D6S	(3G)4G	90386.528	4.5	5P	(5D)4F	155.6360	-4.172	155.6360	-4.172	103265.694	0.5	6S	(5D)4D
154.8655	-3.308	108804.667	3.5	5S	(3D)4D	44232.512	4.5	4P	(5D)4F	155.6536	-4.857	155.6536	-4.857	26055.423	2.5	D6S	(3G)4G
154.8684	-4.821	23031.300	1.5	D6S	(3F)4F	87600.517	2.5	4P	(3P)2D	155.6659	-3.234	155.6659	-3.234	31999.048	3.5	D7	(5D)2F
154.8697	-2.458	2430.097	3.5	D7	(3D)4F	67000.517	2.5	4P	(3F)2D	155.6794	-4.871	155.6794	-4.871	38214.507	1.5	D6S	(1D)2D
154.8916	-3.285	107219.500	4.5	4P2	(7F)8P	42658.224	3.5	4P	(3D)6P	155.6724	-2.232	155.6724	-2.232	25805.328	4.5	D6S	(3G)4G
154.9303	-2.385	31811.822	2.5	D7	(5D)2F	96356.960	3.5	4SP	(3G)2F	155.6964	-3.578	155.6964	-3.578	8391.938	2.5	D6S	(5D)4D
154.9400	-5.730	23031.300	1.5	D6S	(3F)4F	87572.431	2.5	4SP	(5G)6F	155.7073	-7.625	155.7073	-7.625	23317.633	2.5	D5S2	(7S)6S
154.9473	-3.700	26055.423	2.5	D6S	(3G)4G	90593.497	1.5	5P	(5D)4D	155.7147	-3.321	155.7147	-3.321	31999.048	3.5	D7	(5D)2F
154.9577	-4.087	27620.412	2.5	D6S	(3F)2F	92154.165	3.5	4SP	(5D)6F	155.7236	-3.979	155.7236	-3.979	26170.181	5.5	D6S	(3H)2H
155.0087	-1.948	31483.176	3.5	D6S	(3D)4D	95995.690	2.5	4SP	(5P)4D	155.8024	-3.264	155.8024	-3.264	31811.822	2.5	D7	(5D)2F
155.0180	-3.313	8680.454	1.5	D6S	(3D)4D	73189.110	1.5	4P	(3D)2P	155.8172	-4.371	155.8172	-4.371	106836.000	3.5	4P2	(7F)8P
155.0224	-5.646	8680.454	1.5	D6S	(5D)4D	73187.280	0.5	4P	(3D)2P	155.8238	-3.971	155.8238	-3.971	37227.326	0.5	D6S	(1S)2S
155.0239	-3.131	25981.629	3.5	D6S	(3G)4G	90487.810	2.5	5P	(5D)6F	155.8238	-3.971	155.8238	-3.971	37227.326	0.5	D6S	(1S)2S
155.0274	-1.504	1872.567	4.5	D7	(3D)4F	66377.283	3.5	4P	(3G)4F	155.8448	-6.882	155.8448	-6.882	667.683	2.5	D6S	(5D)6D
155.0498	-2.821	25428.784	5.5	D6S	(3G)4G	89924.175	5.5	5P	(5D)6F	155.8541	-1.252	155.8541	-1.252	2837.950	2.5	D7	(5D)4F
155.0501	-2.789	25805.328	4.5	D6S	(3G)4G	90300.625	3.5	5P	(5D)6F	155.8630	-3.591	155.8630	-3.591	2430.097	3.5	D7	(5D)4F
155.0541	-1.817	31364.440	1.5	D6S	(3D)4D	95858.050	1.5	4SP	(5P)4D	155.8692	-1.207	155.8692	-1.207	3117.461	1.5	D7	(5D)4F
155.0638	-1.984	31368.450	0.5	D6S	(3D)4D	95858.050	1.5	4SP	(5P)4D	155.8909	-2.751	155.8909	-2.751	103265.694	0.5	6S	(5D)4D
155.1107	-1.756	31387.948	2.5	D6S	(3D)4D	95858.050	1.5	4SP	(5P)4D	155.8929	-2.624	155.8929	-2.624	106836.000	3.5	4P2	(7F)8P
155.1137	-2.943	27620.412	2.5	D6S	(3F)2F	92089.260	3.5	4SP	(5G)6F	155.9232	-0.308	155.9232	-0.308	22409.852	0.5	D6S	(3P)4F
155.1165	-0.973	31811.822	2.5	D7	(5D)2F	96279.490	2.5	4SP	(3G)2F	155.9269	-1.955	155.9269	-1.955	8391.938	2.5	D6S	(5D)4D
155.1659	-5.733	384.790	3.5	D6S	(5D)6D	64831.943	4.5	4P	(3F)2G	155.9593	-4.885	155.9593	-4.885	22810.357	3.5	D6S	(3F)4F
155.1793	-2.188	2837.950	2.5	D7	(5D)4F	65109.679	3.5	4P	(3F)2G								
155.2015	-3.802	26055.423	2.5	D6S	(3G)4G	90487.810	2.5	5P	(5D)6F								
155.2124	-4.836	26352.766	4.5	D6S	(3H)2H	90780.621	3.5	5P	(5D)4F								
155.2404	-4.514	25981.629	3.5	D6S	(3G)4G	90397.868	3.5	5P	(5D)4D								
155.2641	-5.207	25805.328	4.5	D6S	(3G)4G	90211.700	5.5	4P	(3F)4G								
155.2660	-4.973	31811.822	2.5	D7	(5D)2F	96217.420	3.5	4SP	(5P)4D								
155.2677	-4.907	25981.629	3.5	D6S	(3G)4G	90386.528	4.5	5P	(5D)4F								
155.2716	-1.856	31364.440	1.5	D6S	(3D)4D	95767.700	0.5	4SP	(5P)4D								
155.2813	-1.960	31368.450	0.5	D6S	(3D)4D	95767.700	0.5	4SP	(5P)4D								
155.2836	-7.498	27620.412	2.5	D6S	(3F)2F	92018.729	2.5	4SP	(5D)6F								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
155.9604	-6.048	25805.328	4.5	D6S (3G)4G	89924.175	5.5	5P (5D)6F	156.6822	-0.568	1872.567	4.5	D7 (5D)4F	65696.038	4.5	4P (3G)4G
155.9685	-7.342	26932.748	0.5	D6S (3P)2F	91048.256	1.5	5P (5D)4D	156.7365	-3.444	30388.542	4.5	D6S (3G)2G	94189.880	5.5	4SP(3G)4G
155.9936	-4.613	103118.400	1.5	6S (5D)4D	39013.206	1.5	4P (5D)6D	156.7666	-2.458	102802.312	2.5	6S (5D)4D	39013.206	1.5	4P (5D)6D
156.0252	-1.237	2430.097	3.5	D7 (5D)4F	66522.304	2.5	4P (3G)4F	156.7962	-2.721	8391.938	2.5	D6S (5D)4D	72168.998	1.5	4P (3D)4F
156.0410	-4.841	25981.629	3.5	D6S (3G)4G	90067.347	4.5	5P (5D)6F	156.8020	-1.266	2837.950	2.5	D7 (5D)4F	66612.656	1.5	4P (3G)4F
156.0426	-3.796	25805.328	4.5	D6S (3G)4G	89890.373	3.5	4P (3F)4G	156.8382	-5.675	30388.542	4.5	D6S (3G)2G	94148.510	4.5	4SP(5G)4G
156.0804	-2.989	13673.185	1.5	D7 (5D)4F	7742.730	2.5	4P (1D)2F	156.8437	-6.119	667.682	2.5	D6S (5D)6D	64425.408	2.5	4P (3F)2F
156.1009	-4.640	25981.629	3.5	D6S (3G)4G	90042.779	4.5	4P (3F)4G	156.8489	-4.787	27314.922	3.5	D6S (3F)2F	91070.547	2.5	5P (5D)4F
156.1067	-2.232	1872.567	4.5	D7 (5D)4F	65931.334	3.5	4P (3G)4G	156.8529	-3.657	26170.181	5.5	D6S (3H)2H	89924.175	5.5	5P (5D)6F
156.1259	-4.298	108804.667	3.5	5S (3D)4D	44753.799	3.5	4P (5D)4F	156.8646	-2.437	8680.454	1.5	D6S (5D)4D	72429.711	0.5	4P (3D)4D
156.1372	-3.822	31811.822	2.5	D7 (5D)2F	95858.050	1.5	4SP(5P)4D	156.8733	-3.718	25981.629	3.5	D6S (3G)4G	89727.342	2.5	4P (3F)4G
156.1400	-6.458	26352.766	4.5	D6S (3H)2H	90397.868	3.5	5P (5D)4D	156.8944	-4.484	22810.357	3.5	D6S (3F)4F	86547.490	2.5	4P (1F)2F
156.1487	-3.219	26170.181	5.5	D6S (3H)2H	90211.700	5.5	4P (3F)4G	156.8965	-6.052	203031.300	1.5	D6S (3F)4F	86767.577	2.5	4P (3P)4D
156.1502	-4.829	0.000	4.5	D6S (5D)6D	64040.866	3.5	4P (3F)4G	156.9005	-2.190	102394.040	3.5	6S (5D)4D	38660.043	3.5	4P (5D)6D
156.1509	-5.971	384.790	3.5	D6S (5D)6D	64425.408	2.5	4P (3F)2F	156.9463	-4.267	44915.046	3.5	D6S (1F)2F	108631.090	3.5	4SP(3G)4G
156.1676	-5.814	26352.766	4.5	D6S (3H)2H	90386.528	4.5	5P (5D)4F	156.9478	-6.893	26932.748	0.5	D6S (3F)2F	90648.217	0.5	5P (5D)6F
156.2014	-3.358	108804.667	3.5	5S (3D)4D	44784.761	2.5	4P (5D)4D	156.9499	-5.652	26352.766	4.5	D6S (3H)2H	90067.347	4.5	5P (3D)6F
156.2270	-1.220	7955.299	3.5	D6S (5D)4D	71964.710	2.5	4P (3D)4F	156.9675	-1.073	1872.567	4.5	D7 (5D)4F	65580.041	5.5	4P (3G)4G
156.2278	-3.025	103118.400	1.5	6S (5D)4D	39109.307	0.5	4P (5D)6D	156.9794	-5.527	384.790	3.5	D6S (5D)6D	64087.418	2.5	4P (3F)4G
156.2531	-7.411	30764.485	3.5	D6S (3G)2G	94763.219	3.5	4SP(5D)6P	156.9821	-3.653	44929.550	2.5	D6S (1F)2F	108631.090	3.5	4SP(3G)4G
156.2582	-3.662	31999.048	3.5	D7 (5D)2F	95995.690	2.5	4SP(5P)4D	156.9866	-4.612	44929.550	2.5	D6S (1F)2F	108629.250	2.5	4SP(3G)4G
156.2737	-5.952	22939.358	2.5	D6S (3F)4F	86929.649	3.5	4P (3P)4D	156.9929	-5.113	26932.748	0.5	D6S (3F)2F	90629.902	1.5	4P (3F)4S
156.3014	-2.997	22409.852	0.5	D6S (3P)4D	86388.820	0.5	4P (3P)4D	157.0105	-5.792	26352.766	4.5	D6S (3H)2H	90042.779	4.5	4P (3F)4G
156.3197	-6.682	862.613	1.5	D6S (5D)6D	64834.073	1.5	4P (3P)2F	157.0236	-2.836	30388.542	4.5	D6S (3G)2G	94073.240	3.5	4SP(5G)4G
156.3277	-5.652	26932.748	0.5	D6S (3F)2F	90988.873	1.5	4P (3D)4F	157.0236	-1.467	102543.648	1.5	6S (5D)6D	38858.958	2.5	4P (5D)6D
156.3475	-5.183	8391.938	2.5	D6S (5D)4D	72352.024	3.5	4P (3D)4F	157.0244	-0.441	2837.950	2.5	D7 (5D)4F	66522.304	2.5	4P (3G)4F
156.3545	-3.394	22810.357	3.5	D6S (3F)4F	86767.577	2.5	4P (3P)4F	157.0259	-6.433	25787.598	1.5	D6S (3F)2F	89471.365	0.5	5P (3D)6D
156.3606	-7.129	27620.412	2.5	D6S (3F)2F	91575.139	2.5	5P (5D)6P	157.0260	-6.338	1872.567	4.5	D7 (5D)4F	65556.280	4.5	4P (3H)2H
156.3751	-4.509	0.000	4.5	D6S (5D)6D	63948.790	4.5	4P (3F)4G	157.0406	-3.471	8846.768	0.5	D6S (5D)6D	72524.566	1.5	4P (3D)4D
156.3774	-4.823	26352.766	4.5	D6S (3H)2H	90300.625	3.5	5P (5D)6F	157.0498	-1.492	102334.112	2.5	6S (5D)6D	38660.043	3.5	4P (5D)6D
156.3790	-0.278	2430.097	3.5	D7 (5D)4F	66377.283	3.5	4P (3G)4F	157.0539	-4.331	22810.357	3.5	D6S (3F)4F	86482.750	3.5	4P (1F)2F
156.3871	-7.847	862.613	1.5	D6S (5D)6D	64806.487	0.5	4P (3P)2F	157.0551	-2.370	26055.423	2.5	D6S (3G)4G	89727.342	2.5	4P (3F)4G
156.3884	-3.363	102802.312	2.5	6S (5D)4D	38858.958	2.5	4P (5D)6D	157.0617	-7.268	30388.542	4.5	D6S (3G)2G	94057.773	4.5	4SP(5D)6D
156.3972	-6.352	25787.598	1.5	D6S (3P)2F	89727.342	2.5	4P (3F)4G	157.0827	-6.459	26932.748	0.5	D6S (3F)2F	90593.497	1.5	5P (3D)6F
156.3990	-5.096	8680.454	1.5	D6S (5D)4D	72619.490	2.5	4P (3D)4D	157.0891	-4.801	31387.948	2.5	D6S (3D)4D	95046.100	2.5	4P (3F)2F
156.4060	-2.602	30764.485	3.5	D6S (3G)2G	94700.660	2.5	4P (3F)2D	157.0923	-6.255	25787.598	1.5	D6S (3F)2F	89444.458	2.5	4SP(5P)6P
156.4070	-2.259	102394.718	3.5	6S (5D)4D	38458.981	4.5	4P (5D)6D	157.0956	-5.381	384.790	3.5	D6S (5D)6D	64040.866	3.5	4P (3F)4G
156.4441	-6.331	30764.485	3.5	D6S (3G)2G	94685.090	2.5	4SP(5D)6P	157.0994	-4.734	44915.046	3.5	D6S (1F)2F	108570.560	4.5	4SP(3G)4G
156.4731	-2.282	25981.629	3.5	D6S (3G)4G	89890.373	3.5	4P (3F)4G	157.1006	-1.612	102666.694	0.5	6S (5D)6D	39013.206	1.5	4P (5D)6D
156.4780	-4.845	26932.748	0.5	D6S (3P)2F	90839.480	0.5	4P (3F)4F	157.1061	-4.076	31387.948	2.5	D6S (3D)4D	95039.200	1.5	4P (3D)2P
156.4907	-5.337	384.790	3.5	D6S (5D)6D	64286.345	3.5	4P (3F)2F	157.1065	-1.657	8391.938	2.5	D6S (5D)4D	72043.026	1.5	4P (3D)4P
156.4970	-4.493	26170.181	5.5	D6S (3H)2H	90067.347	4.5	5P (5D)6F	157.1137	-2.536	2430.097	3.5	D7 (5D)4F	66078.269	2.5	4P (3G)4G
156.5192	-4.737	48039.090	2.5	D7 (5D)2D	111929.000	2.5	290DD	157.1166	-6.933	667.683	2.5	D6S (5D)6D	64286.345	3.5	4P (3F)2F
156.5360	-2.029	3117.461	1.5	D7 (5D)4F	67000.517	2.5	4P (3F)2D	157.1203	-5.301	23317.633	2.5	D6S (5D)6D	86929.649	3.5	4P (3P)4D
156.5525	-3.994	0.000	4.5	D6S (5D)6D	63876.317	5.5	4P (3F)4G	157.1216	-4.748	22939.358	2.5	D6S (3F)4F	86547.490	2.5	4P (1F)2F
156.5617	-6.099	26170.181	5.5	D6S (3H)2H	90042.779	4.5	4P (3F)4G	157.2213	-3.599	22939.358	2.5	D6S (3F)4F	86543.974	1.5	4P (3P)4D
156.5952	-5.078	26352.766	4.5	D6S (3H)2H	90211.700	5.5	4P (3F)4G	157.2354	-5.900	30388.542	4.5	D6S (3G)2G	93987.457	3.5	4SP(5D)6D
156.5999	-6.641	977.053	0.5	D6S (5D)6D	64834.073	1.5	4P (3P)2P	157.2391	-3.876	106836.000	3.5	4P2(7F)8P	43238.586	2.5	4P (5D)6D
156.6097	-6.386	27314.922	3.5	D6S (3F)2F	91167.937	3.5	5P (5D)6P	157.2414	-4.026	31483.176	3.5	D6S (3D)4D	95079.640	3.5	4P (3F)2F
156.6160	-3.888	44929.550	2.5	D6S (1F)2F	108780.000	1.5	270DD	157.2612	-4.350	27620.412	2.5	D6S (3F)2F	91208.887	1.5	5P (5D)4F
156.6255	-4.957	8391.938	2.5	D6S (5D)4F	72238.513	2.5	4P (3D)4F	157.2668	-4.398	27314.922	3.5	D6S (3F)2F	90901.124	2.5	5P (5D)4P
156.6315	-2.450	8680.454	1.5	D6S (5D)4D	72524.566	1.5	4P (3D)4D	157.2749	-2.245	8846.768	0.5	D6S (5D)4D	72429.711	0.5	4P (3D)4D
156.6346	-1.984	20516.960	2.5	D7 (5D)2D	84359.800	1.5	4P (3D)4D	157.2756	-2.738	2430.097	3.5	D7 (5D)4F	66012.750	4.5	4P (3G)4F
156.6457	-5.987	25787.598	1.5	D6S (3P)2P	89625.940	1.5	4SP(5P)6P	157.3000	-1.819	8391.938	2.5	D6S (5D)4D	71964.710	2.5	4P (3D)4P
156.6540	-4.094	26055.423	2.5	D6S (3G)4G	89890.373	3.5	4P (3F)4G	157.3021	-1.723	102030.912	3.5	6S (5D)6D	38458.981	4.5	4P (5D)6D
156.6554	-3.370	2837.950	2.5	D7 (5D)4F	66672.334	3.5	4P (3G)4H	157.3034	-5.492	26352.766	4.5	D6S (3H)2H	89924.175	5.5	5P (5D)6F
156.6705	-4.478	22939.358	2.5	D6S (3F)4F	86767.577	2.5	4P (3P)4D	157.3056	-7.706	26055.423	2.5	D6S (3G)4G	89625.940	1.5	4SP(3P)6P
								157.3218	-4.842	384.790	3.5	D6S (5D)6D	63948.790	4.5	4P (3F)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
157.3244	-4.727	31483.176	3.5	D6S (3D)4D	157.9199	-6.850	25805.328	4.5	D6S (3G)4G
157.3247	-8.231	862.613	1.5	D6S (5D)6D	157.9224	-3.487	8846.768	0.5	D6S (5D)4D
157.3365	-6.141	8680.454	1.5	D6S (5D)6D	157.9257	-1.310	72238.513	2.5	4P (3F)2F
157.3381	-2.120	102666.694	0.5	6S (5D)6D	157.9260	-4.981	105288.847	6.5	4D (3F)4H
157.3428	-4.558	36252.918	2.5	D6S (3D)2D	157.9264	-3.097	31364.440	1.5	D6S (3D)4D
157.3625	-9.190	27620.412	2.5	D6S (3F)2F	157.9462	-4.234	31387.948	2.5	D6S (3F)2D
157.3728	-4.621	22939.358	2.5	D6S (3F)4F	157.9519	-3.849	105711.730	2.5	5D (5D)6S
157.3828	-1.211	2837.950	2.5	D7 (3D)4F	157.9538	-3.896	44929.550	2.5	D6S (1F)2F
157.3871	-7.254	26352.766	4.5	D6S (3H)2H	157.9560	-3.758	30764.485	3.5	D6S (3G)2G
157.3917	-2.066	102394.718	3.5	6S (5D)4D	157.9880	-3.478	105630.750	2.5	5D (5D)6D
157.3997	-1.980	8680.454	1.5	D6S (5D)4D	157.9913	-3.925	25428.784	5.5	D6S (3G)4G
157.4038	-0.461	20240.300	5.5	D7 (5D)2D	157.9946	-6.830	30764.485	3.5	D6S (3G)2G
157.4048	-2.979	102943.648	1.5	6S (5D)6D	158.0172	-2.723	8680.454	1.5	D6S (5D)4D
157.4079	-5.315	20830.582	2.5	D6S (3P)4P	158.0267	-6.327	27620.412	2.5	D6S (3F)2F
157.4399	-2.975	31364.440	1.5	D6S (3D)4D	158.0277	-3.007	31483.176	3.5	4SP(5D)6P
157.4402	-4.400	23031.300	1.5	D6S (3F)4F	158.0317	-5.525	27620.412	2.5	D6S (3F)2F
157.4489	-4.317	23031.300	1.5	D6S (3F)4F	158.0384	-6.389	26055.423	2.5	D6S (3G)4G
157.4498	-2.293	31368.450	0.5	D6S (3D)4D	158.0582	-2.631	31811.822	2.5	D7 (5D)2F
157.4772	-1.432	2430.097	3.5	D7 (5D)4F	158.0629	-0.492	2430.097	3.5	D7 (5D)2F
157.4922	-0.555	3117.461	1.5	D7 (5D)4F	158.1200	-4.036	105211.140	4.5	5D (5D)4G
157.5026	-1.132	1872.567	4.5	D7 (5D)4F	158.1270	-2.776	2837.950	2.5	D7 (5D)4G
157.5087	-2.919	8680.454	1.5	D6S (5D)4D	158.1290	-0.770	10198.489	4.5	6S (5D)6D
157.5129	-6.845	15844.650	4.5	D7 (5D)2G	158.1350	-4.819	1872.567	4.5	D7 (5D)4F
157.5420	-1.706	102334.112	2.5	6S (5D)6D	158.1421	-1.078	31811.822	2.5	D7 (5D)2F
157.5431	-3.819	105711.730	2.5	5D (5D)6S	158.1531	-7.160	23317.633	2.5	D5S2(7S)6S
157.5654	-5.616	27314.922	3.5	D6S (3F)2F	158.1542	-2.792	105630.750	2.5	5D (5D)4G
157.5726	-6.982	25981.629	3.5	D6S (3G)4G	158.1593	-1.460	31811.822	2.5	D7 (5D)2F
157.5827	-4.090	44915.046	3.5	D6S (1F)2F	158.1619	-7.641	23317.633	2.5	D5S2(7S)6S
157.6041	-8.295	27620.412	2.5	D6S (3F)2F	158.1658	-6.149	862.613	1.5	D6S (5D)6D
157.6046	-6.439	23317.633	2.5	D5S2(7S)6S	158.1686	-2.505	30764.485	3.5	D6S (3G)2G
157.6112	-6.019	30764.485	3.5	D6S (3G)2G	158.1704	-7.197	20784.485	3.5	D6S (3G)2G
157.6187	-3.238	44929.550	2.5	D6S (1F)2F	158.1889	-2.751	44915.046	3.5	D6S (1F)2F
157.6239	-2.690	44929.550	2.5	D6S (1F)2F	158.1965	-3.082	105449.540	3.5	5D (5D)4G
157.6433	-1.519	102543.648	1.5	6S (5D)6D	158.2231	-3.379	31483.176	3.5	D6S (3D)4D
157.6595	-5.085	27620.412	2.5	D6S (3F)2F	158.2252	-4.395	44929.550	2.5	D6S (1F)2F
157.6796	-6.317	667.683	2.5	D6S (5D)6D	158.2372	-2.659	8846.768	0.5	D6S (5D)4D
157.7046	-3.005	38164.194	2.5	D6S (1D)2D	158.2582	-4.145	38214.507	1.5	D6S (1D)2D
157.7167	-1.223	3117.461	1.5	D7 (5D)4F	158.2958	-4.685	25428.784	5.5	D6S (3G)4G
157.7443	-4.639	105630.750	2.5	5D (5D)4G	158.2981	-1.273	20330.912	3.5	6S (5D)6D
157.7560	-6.755	26055.423	2.5	D6S (3G)4G	158.3152	-6.437	23317.633	2.5	D5S2(7S)6S
157.7685	-4.190	30764.485	3.5	D6S (3G)2G	158.3275	-6.332	27620.412	2.5	D6S (3F)2F
157.7720	-3.738	36252.918	2.5	D6S (3D)2D	158.3477	-3.026	32909.905	5.5	D6S (11)2I
157.7903	-4.016	31387.948	2.5	D6S (3D)4D	158.3608	-6.823	25981.629	3.5	D6S (3G)4G
157.7916	-2.135	31364.440	1.5	D6S (3D)4D	158.3837	-5.539	25981.629	3.5	D6S (3G)4G
157.7954	-5.527	667.683	2.5	D6S (5D)6D	158.4003	-4.819	2137.461	1.5	D7 (5D)4F
157.8012	-1.198	102030.912	3.5	6S (5D)6D	158.4129	-2.160	3430.097	3.5	D7 (5D)4F
157.8016	-2.735	31368.450	0.5	D6S (3D)4D	158.4416	-2.160	105449.540	3.5	5D (5D)4G
157.8128	-2.076	8846.768	0.5	D6S (5D)4D	158.4808	-3.790	30388.542	4.5	D6S (3G)2G
157.8219	-1.886	8680.454	1.5	D6S (5D)4D	158.4878	-2.774	105211.140	4.5	5D (5D)4G
157.8345	-3.868	23031.300	1.5	D6S (3F)4F	158.4952	-0.584	2837.950	2.5	D7 (5D)4F
157.8395	-0.700	20516.960	2.5	D7 (5D)2D	158.5214	-5.044	27314.922	3.5	D6S (3F)2F
157.8502	-2.879	31387.948	2.5	D6S (3D)6D	158.5274	-0.786	31999.048	3.5	D7 (5D)2F
157.8913	-4.502	105449.540	3.5	5D (5D)4G	158.5305	-4.570	10544.180	2.5	4D (3F)4G
157.8913	-4.502	105449.540	3.5	5D (5D)4G	158.5461	-8.519	26055.423	2.5	D6S (3G)4G
157.8984	-6.390	25787.598	1.5	D6S (3P)2P					
157.9048	-4.087	32909.905	5.5	D6S (11)2I					
157.9176	-3.940	44915.046	3.5	D6S (1F)2F					
157.9183	-4.524	27314.922	3.5	D6S (3F)2F					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
158.5500	-7.712	27314.922	3.5	D6S (3F)2F	90386.528	4.5	5P (5D)4F	159.2598	-3.010	105230.290	0.5	5D (5D)4D	42439.822	0.5	4P (5D)6F
158.5628	-7.551	30764.485	3.5	D6S (3G)2G	93830.979	2.5	4SP(5D)6D	159.2654	-3.432	20516.960	2.5	D7 (5D)2D	83305.251	3.5	4P (1F)2G
158.5655	-2.161	20805.770	4.5	D7 (3D)2H	83871.184	4.5	4P (1F)2G	159.2909	-3.383	33501.933	3.5	D6S (1G)2G	96279.490	2.5	4SP(3G)2F
158.5690	-6.381	26055.423	2.5	D6S (3G)4G	89119.457	2.5	5P (5D)6D	159.2929	-6.889	27620.412	2.5	D6S (3F)2F	90397.868	3.5	5P (5D)4D
158.5943	-4.207	105291.010	3.5	4D (3F)4G	42627.033	3.5	4P (5D)6F	159.2971	-9.995	26352.766	4.5	D6S (3H)2H	89128.561	3.5	4SP(5P)6P
158.5955	-1.073	105711.730	2.5	5D (5D)2D	42658.224	3.5	4P (5D)6F	159.3048	-2.494	33466.463	4.5	D6S (1G)2G	96239.200	4.5	4SP(3G)2H
158.5999	-0.758	21308.040	1.5	4P (5D)2D	84359.800	1.5	4P (5D)6F	159.3051	-4.895	107219.500	4.5	4P2(7F)8P	44446.878	3.5	4P (5D)4D
158.6052	-2.332	44915.046	3.5	D6S (1F)2F	107964.700	4.5	210DD	159.3412	-3.079	104873.230	3.5	5D (5D)4D	42114.818	4.5	4P (5D)6F
158.6088	-4.801	25805.328	4.5	D6S (3G)4G	88853.533	3.5	5P (5D)6D	159.3532	-1.062	104868.500	4.5	5D (5D)6G	42114.818	4.5	4P (5D)6F
158.6117	-2.411	31999.048	3.5	D7 (5D)2F	95046.100	3.5	4P (3F)2F	159.3564	-6.713	27314.922	3.5	D6S (3F)2F	90067.347	4.5	5P (5D)6F
158.6288	-4.920	105155.090	4.5	4D (3F)4G	42114.818	4.5	4P (5D)6F	159.3601	-3.671	33466.463	4.5	D6S (1G)2G	96217.420	3.5	4SP(5P)4D
158.6334	-1.291	101698.489	4.5	6S (5D)6D	38660.043	3.5	4P (5D)6D	159.3661	-1.518	104863.430	5.5	5D (5D)4G	42114.818	4.5	4P (5D)6F
158.6348	-3.771	20830.582	2.5	D6S (3P)4F	83868.450	2.5	4P (1F)2D	159.3835	-3.929	25981.629	3.5	D6S (3G)4G	88723.400	4.5	5P (5D)6D
158.6838	-6.334	27620.412	2.5	D6S (3F)2F	90638.822	2.5	5P (5D)4D	159.3845	-3.378	30388.542	4.5	D6S (3G)2G	93129.900	3.5	4P (3F)4D
158.7063	-5.035	27620.412	2.5	D6S (3F)2F	90629.902	1.5	4P (3F)4S	159.3932	-3.048	33501.233	3.5	D6S (1G)2G	26239.200	4.5	4SP(3G)2H
158.7662	-5.799	27314.922	3.5	D6S (3F)2F	90300.625	3.5	5P (5D)6F	159.4113	-0.334	105065.630	3.5	5D (5D)6G	42334.822	2.5	4P (5D)6F
158.8089	-3.783	105211.140	4.5	5D (5D)4G	42237.033	3.5	4P (5D)6F	159.4170	-2.256	31483.176	3.5	D6S (3D)4D	94211.739	2.5	4SP(5P)4P
158.8236	-0.995	27620.412	2.5	D6S (3F)2F	90593.497	1.5	5P (5D)6F	159.4188	-4.654	27314.922	2.5	D6S (3F)2F	90404.779	4.5	4P (3F)4G
158.8290	-0.786	3117.461	1.5	D7 (5D)4F	42658.224	3.5	4P (5D)6F	159.4223	-3.025	105127.770	2.5	5D (5D)4D	92001.302	1.5	4P (3F)4F
158.8384	-2.942	44915.046	3.5	D6S (1F)2F	107886.600	3.5	200DD	159.4307	-3.744	30764.485	3.5	D6S (3G)2G	93487.650	3.5	4P (3F)4F
158.8406	-4.517	105291.010	3.5	4D (3F)4G	42334.822	2.5	4P (5D)6F	159.4385	-6.029	30764.485	3.5	D6S (3G)2G	93484.580	4.5	4P (3F)4F
158.8469	-2.141	105288.530	1.5	5D (5D)6G	42334.822	2.5	4P (5D)6F	159.4435	-0.701	31999.048	3.5	D7 (5D)2F	94700.660	2.5	4P (3F)2D
158.8542	-2.244	105065.630	3.5	5D (5D)6G	42114.818	4.5	4P (5D)6F	159.4576	-5.451	862.613	1.5	D6S (5D)6D	63559.488	0.5	4P (3F)4D
158.8688	-2.889	105066.000	5.5	D6S (3F)4F	62945.038	3.5	4P (3F)4D	159.4576	-5.451	862.613	1.5	D6S (5D)6D	63559.488	0.5	4P (3F)4D
158.9134	-3.074	31811.822	2.5	D7 (5D)2F	94739.170	1.5	4SP(5P)4P	159.5070	-6.579	26932.748	0.5	D6S (3P)2F	89625.940	1.5	4SP(5P)6P
158.9368	-5.150	25805.328	4.5	D6S (3G)4G	88723.400	4.5	5P (5D)6D	159.5251	-2.545	31387.948	2.5	D6S (3D)4D	94073.240	3.5	4SP(5G)4G
158.9369	-3.833	105155.090	4.5	4D (3F)4G	42237.033	3.5	4P (5D)6F	159.5400	-9.560	27620.412	2.5	D6S (3F)2F	90300.625	3.5	5P (5D)6F
158.9427	-5.923	16369.360	3.5	D7 (5D)4F	62945.038	3.5	4P (3F)4D	159.5416	-3.163	2430.097	3.5	D7 (5D)4F	65109.679	3.5	4P (1F)2G
158.9717	-5.569	13673.185	1.5	D7 (5D)4F	42114.818	4.5	4P (5D)6F	159.5592	-3.697	13904.824	0.5	D7 (5D)4F	76577.482	0.5	4P (3F)2D
158.9814	-2.714	104868.500	4.5	5D (5D)6G	41968.046	5.5	4P (5D)6F	159.5738	-3.155	31364.440	1.5	D6S (3D)4D	94031.378	0.5	4SP(5D)6D
158.9942	-2.501	104863.430	5.5	5D (5D)4G	41968.046	5.5	4P (5D)6F	159.5738	-3.155	31364.440	1.5	D6S (3D)4D	94031.378	0.5	4SP(5D)6D
159.0059	-2.739	105127.770	2.5	5D (5D)4G	41968.046	5.5	4P (5D)6F	159.5840	-2.908	31368.450	0.5	D6S (3D)4D	94031.378	0.5	4SP(5D)6D
159.0065	-2.566	33466.463	4.5	D6S (1G)2G	42237.033	3.5	4P (5D)6F	159.5857	-6.063	31368.450	0.5	D6S (3D)4D	94031.378	0.5	4SP(5D)6D
159.0107	-1.932	31811.822	2.5	D7 (5D)2F	94700.660	2.5	4P (3F)2D	159.6041	-4.960	13474.411	2.5	D7 (5D)4F	76129.446	1.5	4P (1G)2F
159.0124	-3.843	384.790	3.5	D6S (3D)6D	63272.976	2.5	4P (3F)4D	159.6276	-2.849	36252.918	2.5	D6S (3D)2D	98898.710	3.5	4P (1G)2F
159.0148	-1.068	105288.530	1.5	5D (5D)6G	42401.302	1.5	4P (5D)6F	159.6328	-3.152	104873.230	3.5	5D (5D)4D	98770.140	1.5	4SP(5D)4D
159.0298	-2.522	36126.387	1.5	D6S (3D)2D	99007.700	0.5	4SP(5D)4D	159.6521	-2.035	104873.230	3.5	5D (5D)4D	98770.140	1.5	4SP(5D)4D
159.0536	-5.860	25981.629	3.5	D6S (3G)4G	88853.533	3.5	5P (5D)6D	159.6608	-4.448	105291.010	3.5	4D (3F)4G	42658.224	3.5	4P (5D)6F
159.0559	-0.939	105205.790	2.5	5D (3F)2F	94685.090	2.5	4SP(3D)6P	159.6642	-0.197	104868.500	4.5	5D (5D)6G	42237.033	3.5	4P (5D)6F
159.0650	-7.939	27620.412	2.5	D6S (3F)2F	90487.810	2.5	5P (5D)6F	159.6657	-3.345	30764.485	3.5	D6S (3G)2G	93395.360	2.5	4P (3F)4F
159.0945	-2.048	33501.253	3.5	D6S (1G)2G	96356.960	3.5	5P (5D)6D	159.6801	-1.310	104593.270	5.5	5D (5D)6G	41968.046	5.5	4P (5D)6F
159.1123	-0.677	105288.530	1.5	5D (5D)6G	42401.302	1.5	4P (5D)6F	159.6801	-1.310	104593.270	5.5	5D (5D)6G	41968.046	5.5	4P (5D)6F
159.1158	-3.200	31364.440	1.5	D6S (3D)4D	94211.739	2.5	4SP(3F)4P	159.7309	-4.918	31364.440	1.5	D6S (3D)4D	93988.170	2.5	4P (3F)4D
159.1622	-2.995	105230.290	0.5	5D (5D)4D	42401.302	1.5	4P (5D)6F	159.7380	-6.579	862.613	1.5	D6S (5D)6D	63272.976	2.5	4P (3F)4D
159.1632	-0.981	105065.630	3.5	5D (5D)6G	42237.033	3.5	4P (5D)6F	159.7457	-4.015	31387.948	2.5	D6S (3D)4D	93988.170	2.5	4P (3F)4D
159.1754	-2.353	31387.948	2.5	D6S (3D)4D	94211.739	2.5	4SP(5P)4D	159.7536	-3.179	33466.463	4.5	D6S (1G)2G	96062.060	5.5	4SP(3G)2H
159.2124	-5.114	25805.328	4.5	D6S (3G)4G	88614.520	4.5	4SP(3F)6D	159.7671	-2.694	104828.160	2.5	5D (5D)6D	42237.033	3.5	4P (5D)6F
159.2243	-0.485	105205.790	2.5	5D (5D)6G	42401.302	1.5	4P (5D)6F	159.7756	-3.179	33466.463	4.5	D6S (1G)2G	96062.060	5.5	4SP(3G)2H
159.2422	-4.664	667.683	2.5	D6S (5D)6D	63465.109	1.5	4P (3F)4D	159.7884	-2.728	104705.420	3.5	5D (5D)6D	42114.818	4.5	4P (5D)6F
159.2536	-4.474	105127.770	2.5	5D (5D)4G	42334.822	2.5	4P (5D)6F	159.7992	-5.394	31483.176	3.5	D6S (3D)4D	94073.240	3.5	4SP(5G)4G
159.2577	-4.306	105449.540	3.5	5D (5D)4G	42658.224	3.5	4P (5D)6F	159.7992	-5.394	31483.176	3.5	D6S (3D)4D	94073.240	3.5	4SP(5G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
159.8646	-3.812	105211.140	4.5	5D (5D)4G	42658.224	3.5	4P (5D)6P	160.5864	-6.491	25787.598	1.5	D6S	88059.380	2.5	4SP(5P)6D
159.8779	-5.586	21812.055	1.5	D6S (3P)4F	84359.800	1.5	4P (1F)2D	160.5865	-5.896	2837.950	2.5	D7	65109.679	3.5	4P (3F)2G
159.8783	-4.439	105205.790	2.5	5D (5D)6G	42658.224	3.5	4P (5D)6P	160.5911	-5.006	27620.412	2.5	D6S	89890.373	3.5	4P (3F)4G
159.9012	-6.483	26932.748	0.5	D6S (3P)2F	89471.365	0.5	5P (5D)6F	160.6010	-2.370	104380.940	3.5	5D (5D)6F	42114.818	4.5	4P (5D)6D
159.9017	-1.902	104873.230	3.5	5D (5D)4D	42334.822	2.5	4P (5D)6F	160.6122	-6.973	26352.766	4.5	D6S (3H)2H	88614.520	4.5	4SP(3P)6D
159.9559	-2.742	36252.918	2.5	D6S (3D)2D	98770.140	1.5	4SP(5D)4D	160.6131	-4.810	31811.822	2.5	D7 (5D)2F	94073.240	3.5	4SP(5G)4G
159.9872	-4.934	31483.176	3.5	D6S (3D)4D	93988.170	2.5	4SP(5G)4G	160.6325	-2.480	104588.710	1.5	5D (5D)6D	42334.822	2.5	4P (5D)6F
159.9890	-3.468	31483.176	3.5	D6S (3D)4D	93987.457	3.5	4SP(5D)6D	160.6369	-3.562	36252.918	2.5	D6S (3D)2D	98505.100	2.5	4SP(5D)4D
160.0013	-0.612	20805.770	4.5	D7 (5D)2H	88853.533	3.5	5P (5D)6D	160.6411	-3.910	44915.046	3.5	D6S (1F)2F	107165.600	3.5	170DD
160.0142	-3.804	33501.253	3.5	D6S (1G)2G	83305.251	3.5	4P (1F)2G	160.6631	-1.107	13673.185	1.5	D7 (5D)4F	75915.215	2.5	4P (3D)2F
160.0171	-1.484	104828.160	2.5	5D (5D)6D	95995.690	2.5	4SP(5P)4D	160.6786	-3.132	44929.550	2.5	D6S (1F)2F	107165.600	3.5	170DD
160.0306	-5.207	977.053	0.5	D6S (5D)6D	63465.109	1.5	4P (3F)4D	160.6965	-2.034	104630.430	1.5	5D (5D)6F	42401.302	1.5	4P (5D)6F
160.0552	-0.077	104593.270	5.5	5D (5D)6G	42114.818	4.5	4P (5D)6F	160.6998	-6.028	25981.629	3.5	D6S (3G)4G	88209.450	3.5	4SP(5P)6D
160.0617	-3.060	31364.440	1.5	D6S (3D)4D	93840.340	1.5	4SP(5D)6D	160.7081	-3.416	13904.824	0.5	D7 (5D)4F	76129.446	1.5	4P (1S)2D
160.0649	-6.276	20830.582	2.5	D6S (3P)4F	83305.251	3.5	4P (1F)2G	160.7329	-1.033	104873.230	3.5	5D (5D)4D	42658.224	3.5	4P (5D)6P
160.0688	-0.807	105711.730	2.5	5D (5D)6S	43238.586	2.5	4P (5D)6P	160.7351	-4.774	30388.542	4.5	D6S (3G)2G	94211.739	2.5	4P (3F)2G
160.0720	-4.246	31368.450	0.5	D6S (3D)4D	93840.340	1.5	4SP(5D)6D	160.7389	-3.005	31999.048	3.5	D7 (5D)2F	96201.739	2.5	4SP(5P)4F
160.0810	-1.498	104705.420	3.5	5D (5D)6D	93840.340	1.5	4P (5D)6F	160.7410	-3.093	36126.387	1.5	D6S (3D)2D	98338.280	1.5	4SP(3P)4S
160.0857	-4.977	31364.440	1.5	D6S (3D)4D	93830.979	2.5	4SP(5D)6D	160.7434	-3.439	105449.540	3.5	5D (5D)4G	43238.586	2.5	4P (5D)6P
160.1121	-3.747	13673.185	1.5	D7 (5D)4F	42237.033	3.5	4P (5D)6F	160.7451	-1.735	104868.500	4.5	5D (5D)6G	42658.224	3.5	4P (5D)6P
160.1220	-3.568	31387.948	2.5	D6S (3D)4D	76129.446	1.5	4P (1S)2D	160.7960	-2.902	104630.430	1.5	5D (5D)6F	42237.033	3.5	4P (5D)6F
160.1426	-5.477	26170.181	5.5	D6S (3H)2H	88614.520	4.5	4SP(5P)6D	160.7990	-1.830	104426.460	2.5	5D (5D)6F	42237.033	3.5	4P (5D)6F
160.1444	-2.085	104411.690	4.5	5D (5D)6D	41968.046	5.5	4P (5D)6F	160.8043	-1.664	104588.710	1.5	5D (5D)6D	42401.302	1.5	4P (5D)6F
160.1516	-4.024	21430.359	5.5	D6S (3H)4H	93830.979	2.5	4SP(5D)6D	160.8083	-4.945	38214.507	1.5	D6S (1D)2D	100400.360	2.5	4SP(3P)2D
160.1517	-4.662	13474.411	2.5	D7 (5D)4F	83871.184	4.5	4P (1F)2G	160.8451	-0.290	31811.822	2.5	D7 (5D)2F	93988.170	2.5	4SP(5G)4G
160.1875	-2.695	104828.160	2.5	5D (5D)6D	42401.302	1.5	4P (3D)2F	160.8536	-1.780	1872.567	4.5	D7 (5D)4F	64040.886	3.5	4P (3F)4G
160.2210	-2.265	1872.567	4.5	D7 (5D)4F	64286.345	3.5	4P (3F)2F	160.8771	-6.019	21711.917	3.5	D6S (3H)4H	83871.184	4.5	4P (1F)2D
160.2245	-4.665	27314.922	3.5	D6S (3F)2F	89727.342	2.5	4P (3F)4G	160.8801	-4.605	0.000	4.5	D6S (5D)6D	62171.615	3.5	4SP(7S)6P
160.2298	-4.788	862.613	1.5	D6S (5D)6D	63272.976	2.5	4P (3F)4D	160.8841	-6.274	21711.917	3.5	D6S (3H)4H	83868.450	2.5	4P (1F)2D
160.2374	-4.795	105065.630	3.5	5D (5D)6G	42658.224	3.5	4P (5D)6P	160.8906	-7.897	26055.423	2.5	D6S (3G)4G	88209.450	3.5	4SP(5P)6D
160.2458	-5.018	25805.328	4.5	D6S (3G)4G	88209.450	3.5	4SP(5P)6D	160.9024	-4.922	31999.048	3.5	D7 (5D)2F	94148.510	4.5	4SP(5G)4G
160.2517	-2.104	2430.097	3.5	D7 (5D)4F	64831.943	4.5	4P (3F)2G	160.9039	-2.140	104588.710	1.5	5D (5D)6D	42439.822	0.5	4P (5D)6F
160.2566	-4.232	31811.822	2.5	D7 (5D)2F	94211.739	2.5	4SP(5P)4F	160.9168	-1.020	104380.940	3.5	5D (5D)6F	42237.033	3.5	4P (5D)6F
160.2596	0.031	104366.820	6.5	5D (5D)6G	41968.046	5.5	4P (5D)6F	160.9311	-2.781	36252.918	2.5	D6S (3D)2D	98391.330	2.5	4SP(5D)4D
160.2604	-8.773	26932.748	0.5	D6S (3P)2F	89331.195	1.5	5P (5D)6D	160.9406	-3.760	30764.485	3.5	D6S (3G)2G	92899.200	2.5	4P (3F)4D
160.2765	-2.346	105630.750	2.5	5D (5D)4G	43238.586	2.5	4P (5D)6P	160.9483	-5.748	8391.938	2.5	D6S (5D)4D	70523.706	3.5	4P (3G)2G
160.3111	-3.359	36126.387	1.5	D6S (3D)2D	98505.100	2.5	4SP(5D)4D	160.9540	-8.228	27314.922	3.5	D6S (3F)2F	89444.458	2.5	4SP(5P)6P
160.3319	-6.869	26352.766	4.5	D6S (3H)2H	88723.400	4.5	5P (5D)6F	160.9619	-3.383	13474.411	2.5	D7 (5D)4F	75600.931	3.5	4P (3D)2F
160.3320	-3.662	104705.420	3.5	5D (5D)6D	42334.822	2.5	4P (5D)6F	161.0033	-8.023	25787.598	1.5	D6S (3P)2F	87898.120	0.5	4SP(5G)6F
160.3453	-3.888	30764.485	3.5	D6S (3G)2G	93129.900	3.5	4P (3F)4D	161.0261	-3.890	27620.412	2.5	D6S (3F)2F	89727.342	2.5	4P (3F)4G
160.3610	-4.593	7955.299	3.5	D6S (5D)4D	70314.604	4.5	4P (3G)2G	161.0314	-1.560	36252.918	2.5	D6S (3D)4D	98354.660	2.5	4SP(5D)4F
160.3700	-4.450	104757.110	0.5	5D (5D)6D	42401.302	1.5	4P (5D)6F	161.0317	-4.896	862.613	1.5	D6S (5D)6D	62962.205	1.5	4P (3F)4F
160.3906	-3.872	31483.176	3.5	D6S (3D)4D	93830.979	2.5	4SP(5D)6D	161.0523	-1.389	104426.460	2.5	5D (5D)6F	42334.822	2.5	4P (5D)6F
160.4559	-3.353	0.000	4.5	D6S (5D)6D	62322.431	3.5	4P (3H)2G	161.0545	-0.681	105711.730	2.5	5D (5D)6S	43620.957	1.5	4P (5D)6P
160.4583	-1.790	16369.360	3.5	D7 (5D)2G	78690.846	2.5	4P (1D)2D	161.0686	-2.733	36252.918	2.5	D6S (3D)2D	98338.280	1.5	4SP(5P)4S
160.4691	-1.958	104757.110	0.5	5D (5D)6G	42439.822	0.5	4P (5D)6F	161.0744	-0.084	0.000	4.5	D6S (5D)6D	62083.108	4.5	4P (3H)2G
160.5005	-4.234	384.790	3.5	D6S (5D)6D	62689.880	2.5	4P (3P)4D	161.0883	-7.043	25981.629	3.5	D6S (3G)4G	88059.380	2.5	4SP(5P)6D
160.5217	-0.902	104411.690	4.5	5D (5D)6D	42114.818	4.5	4P (5D)6F	161.0923	-0.857	1872.567	4.5	D7 (5D)4F	63948.790	4.5	4P (3F)4G
160.5250	-3.157	104630.430	1.5	5D (5D)6P	42334.822	2.5	4P (5D)6F	161.0975	-3.578	31999.048	3.5	D7 (5D)2F	94073.240	3.5	4SP(5G)4G
160.5278	-5.191	667.683	2.5	D6S (5D)6D	62962.205	1.5	4P (3P)4D	161.1066	-4.614	26932.748	0.5	D6S (3P)2D	89003.460	0.5	4P (3P)2S
160.5324	-0.696	15844.650	4.5	D7 (5D)2G	78137.364	3.5	4P (1D)2F	161.1094	-3.242	36126.387	1.5	D6S (3D)2D	98196.000	1.5	4SP(5D)4F
160.5406	-6.390	21581.638	4.5	D6S (3H)4H	83871.184	4.5	4P (1F)2G	161.1201	-2.834	0.000	4.5	D6S (5D)6D	62065.521	3.5	4P (3F)4F
160.5406	-6.390	21581.638	4.5	D6S (3H)4H	83871.184	4.5	4P (1F)2G	161.1437	-6.337	21812.055	1.5	D6S (5D)6D	62065.521	3.5	4P (3F)4F
160.5622	-4.133	44915.046	3.5	D6S (1F)2F	107196.200	2.5	180DD	161.1605	-4.769	105288.530	1.5	5D (5D)6F	43238.586	2.5	4P (1F)2D
160.5720	-4.407	667.683	2.5	D6S (5D)6D	62945.038	3.5	4P (3F)4D								

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
161.1676	-1.755	104705.420	3.5	5D (5D)6D	161.8484	-3.742	50142.786	2.5	D6S (3F)4F
161.1704	-2.107	104380.940	3.5	5D (5D)6F	161.8504	-1.783	104120.270	2.5	5D (5D)6F
161.1770	-4.976	30388.542	4.5	D6S (3G)2G	161.8520	-8.044	25787.598	1.5	D6S (3F)2F
161.1786	-3.996	25288.784	5.5	D6S (3G)4G	161.8562	-4.542	103751.660	5.5	4D (3H)4H
161.1904	-3.871	30388.542	4.5	D6S (3G)2G	161.8564	-2.915	30388.542	4.5	D6S (3G)2G
161.2099	-1.485	31364.440	1.5	D6S (3D)4D	161.8637	-4.820	37227.326	0.5	D6S (1S)2S
161.2162	-3.700	31811.822	2.5	D7 (5D)2F	161.8698	-3.833	30388.542	4.5	D6S (3G)2G
161.2236	-4.240	667.683	2.5	D6S (5D)6D	161.8822	-5.397	384.790	3.5	D6S (5D)6D
161.2649	-2.120	105630.750	2.5	5D (5D)4G	161.8955	-0.906	104426.460	2.5	5D (5D)6F
161.2710	-2.211	31387.948	2.5	D6S (3D)4D	161.8961	-1.922	16369.360	3.5	D7 (5D)2G
161.2759	-7.873	27620.412	2.5	D6S (3F)2F	161.8993	-3.527	384.790	3.5	D6S (5D)6D
161.2787	-3.748	31483.176	3.5	D6S (3D)4D	161.9024	-6.331	30388.542	4.5	D6S (3G)2G
161.2800	-0.648	26055.423	2.5	D6S (3G)4G	161.9072	-1.507	104041.690	3.5	5D (5D)6F
161.2806	-0.376	1872.567	4.5	D7 (5D)4F	161.9342	-0.593	104411.690	4.5	5D (5D)6D
161.2867	-1.367	31483.176	3.5	D6S (3D)4D	161.9644	-1.816	31387.948	2.5	D6S (3D)4D
161.3004	-3.959	2837.950	2.5	D7 (5D)4F	161.9664	-3.641	50187.813	3.5	D6S (3F)4F
161.3025	-3.424	2430.097	3.5	D7 (5D)4F	161.9672	-3.502	48039.090	2.5	D7 (5D)2D
161.3186	-4.431	31999.048	3.5	D7 (5D)2F	161.9897	-4.059	25805.328	4.5	D6S (3G)2G
161.3290	-5.269	977.053	0.5	D6S (5D)6D	162.0004	-3.811	0.000	4.5	D6S (5D)6D
161.3357	-1.137	103950.590	4.5	5D (5D)6F	162.0061	-3.544	21581.638	4.5	D6S (3H)4H
161.3722	-0.491	103936.600	5.5	5D (5D)6F	162.0126	-4.408	104380.940	3.5	5D (5D)6F
161.3757	-2.777	105205.790	2.5	5D (5D)6G	162.0249	-2.001	104120.270	2.5	5D (5D)6F
161.3776	-8.286	862.613	1.5	D6S (5D)6D	162.0307	-3.284	3117.461	1.5	D7 (5D)4F
161.3859	-2.034	31364.440	1.5	D6S (3D)4D	162.0321	-5.000	50212.826	2.5	D6S (3F)4F
161.3944	-1.577	31368.450	0.5	D6S (3D)4D	162.0390	-1.795	103950.590	4.5	5D (5D)6F
161.4206	-6.395	22409.852	0.5	D6S (3F)4F	162.0462	-7.621	27620.412	2.5	D6S (3F)2F
161.4233	-3.941	44915.046	3.5	D6S (1F)2F	162.0727	-4.954	30388.542	4.5	D6S (3G)2G
161.4385	-4.755	36252.918	2.5	D6S (3D)2D	162.0790	-5.624	384.790	3.5	D6S (5D)6D
161.4452	-3.193	31387.948	2.5	D6S (3D)4D	162.1034	-3.423	7955.299	3.5	D6S (5D)4D
161.4527	-4.056	384.790	3.5	D6S (5D)6D	162.1082	-4.299	3117.461	1.5	D7 (5D)4F
161.4631	-3.589	44929.550	2.5	D6S (1F)2F	162.1252	-3.433	384.790	3.5	D6S (5D)6D
161.4703	-2.791	30764.485	3.5	D6S (3G)2G	162.1381	-3.218	31811.822	2.5	D7 (5D)2F
161.5191	-4.895	25428.784	5.5	D6S (3G)4G	162.1531	-3.557	105288.530	1.5	5D (5D)6G
161.5203	-6.257	30388.542	4.5	D6S (3G)2G	162.1628	-5.311	25805.328	4.5	D6S (3G)4G
161.5268	-5.739	26055.423	2.5	D6S (3G)2G	162.1639	-1.942	104000.810	3.5	5D (5D)6F
161.5668	-3.667	30388.542	4.5	D6S (3G)2G	162.1686	-0.598	384.790	3.5	D6S (5D)6D
161.5791	-2.569	105127.770	2.5	5D (5D)4D	162.1731	-6.372	30764.485	3.5	D6S (3G)2G
161.5875	-1.171	104000.810	3.5	5D (5D)6F	162.1867	-1.873	2430.097	3.5	D7 (5D)4F
161.5946	-1.309	104120.270	2.5	5D (5D)6F	162.1935	-4.894	667.683	2.5	D6S (5D)6D
161.6640	-7.598	26352.766	4.5	D6S (3H)2H	162.2027	-5.315	7955.299	3.5	D6S (5D)4D
161.6652	-1.627	2430.097	3.5	D7 (5D)4F	162.2146	-1.708	31483.176	3.5	D6S (3D)4D
161.6734	-1.804	50075.910	1.5	D6S (3F)4F	162.2212	-3.044	38164.194	2.5	D6S (1D)2D
161.6742	-7.257	977.053	0.5	D6S (5D)6D	162.2406	-4.305	103751.660	5.5	4D (3H)4H
161.6859	-7.891	25787.598	1.5	D6S (3P)2P	162.2464	-0.780	104873.230	3.5	5D (5D)4D
161.7123	-2.898	30764.485	3.5	D6S (3G)2G	162.3029	-2.432	33466.463	4.5	D6S (1G)2G
161.7149	-1.939	108804.667	3.5	5S (3D)4D	162.3092	-0.997	2430.097	3.5	D7 (5D)4F
161.7187	-0.975	103950.590	4.5	5D (5D)6F	162.3552	-6.042	21711.917	3.5	D6S (3H)4H
161.7287	-4.033	31999.048	3.5	D7 (5D)2F	162.3619	-4.361	25981.629	3.5	D6S (3G)4G
161.7409	-4.908	862.613	1.5	D6S (5D)6D	162.3651	-1.403	104828.160	2.5	5D (5D)6D
161.7415	-1.703	105065.630	3.5	5D (5D)6G	162.3707	-1.631	2837.950	2.5	D7 (5D)4F
161.7494	-8.713	27620.412	2.5	D6S (3F)2F	162.3714	-6.335	0.000	4.5	D6S (5D)6D
161.7553	-2.005	103936.600	5.5	5D (5D)6F	162.3776	-2.948	105205.790	2.5	5D (5D)6G
161.7739	-7.226	25787.598	1.5	D6S (3P)2P	162.3811	-3.451	31811.822	2.5	D7 (5D)2F
161.7766	-6.015	27314.922	3.5	D6S (3F)2F	162.3946	-2.822	33501.253	3.5	D6S (1G)2G
161.8004	-6.875	27314.922	3.5	D6S (3F)2F	162.3987	-4.098	667.683	2.5	D6S (5D)6D
161.8468	-0.832	384.790	3.5	D6S (5D)6D	162.4289	-3.153	30764.485	3.5	D6S (3G)2G
					162.4536	-4.839	25981.629	3.5	D6S (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
162.4779	-4.898	26055.423	2.5	D6S (3G)4G	163.1879	-2.652	31368.450	0.5	D6S (3D)4D
162.4831	-2.579	33501.123	3.5	D6S (1G)2G	163.2188	-4.033	977.053	0.5	D6S (5D)6D
162.4996	-9.520	27314.922	3.5	D6S (3F)2F	163.2257	-2.609	105711.730	2.5	5D (5D)6D
162.5070	-5.485	30764.485	3.5	D6S (3G)2G	163.2307	-2.564	862.613	1.5	D6S (5D)6D
162.5074	-5.266	25805.328	4.5	D6S (3G)4G	163.2398	-3.031	31387.948	2.5	D6S (3D)4D
162.5098	-2.518	31364.440	1.5	D6S (3D)4D	163.2425	-6.303	8391.938	2.5	D6S (5D)6D
162.5203	-3.636	105763.270	5.5	4D (3F)2H	163.2540	-6.012	30764.485	3.5	D6S (3G)2G
162.5522	-0.584	2430.097	3.5	D7 (5D)4F	163.2667	-1.305	2837.950	2.5	D7 (5D)4F
162.5541	-3.256	30764.485	3.5	D6S (3G)2G	163.2957	-4.058	32909.905	5.5	D6S (11)2I
162.5567	-5.107	26055.423	2.5	D6S (3G)4G	163.3080	-4.318	22637.203	4.5	D6S (3F)4F
162.5576	-2.292	31811.822	2.5	D7 (5D)2F	163.3103	-9.625	27620.412	2.5	D6S (3F)2F
162.5682	-7.805	0.000	4.5	D6S (5D)6D	163.3532	-2.495	105449.540	3.5	5D (5D)4G
162.5719	-1.812	31387.948	2.5	D6S (3D)4D	163.3593	-1.440	31387.948	2.5	D6S (3D)4D
162.5762	-4.062	30764.485	3.5	D6S (3G)2G	163.3597	-5.567	8391.938	2.5	D6S (5D)4F
162.5801	-7.780	27620.412	2.5	D6S (3F)2F	163.3661	-3.381	31483.176	3.5	D6S (3D)4D
162.5836	-1.809	105127.770	2.5	5D (5D)4D	163.3795	-1.016	104828.160	2.5	5D (5D)6D
162.5912	-1.610	667.683	2.5	D6S (5D)6D	163.3909	-0.779	2837.950	2.5	D7 (5D)4F
162.6042	-8.455	27620.412	2.5	D6S (3F)2F	163.3990	-2.387	33501.253	3.5	D6S (1G)2G
162.6277	-6.271	25981.629	3.5	D6S (3G)4G	163.4003	-2.946	31326.387	1.5	D6S (3D)2D
162.6318	-3.057	31999.048	3.5	D7 (5D)2F	163.4311	-1.438	104426.460	2.5	5D (5D)6F
162.6399	-2.810	31999.048	3.5	D7 (5D)2F	163.4350	-1.228	862.613	1.5	D6S (5D)6D
162.6443	-3.712	667.683	2.5	D6S (3G)4G	163.4391	-5.901	26332.766	4.5	D6S (3H)2H
162.6486	-7.229	26055.423	2.5	D6S (3G)4G	163.4419	-4.668	33501.253	3.5	D6S (1G)2G
162.6775	-2.657	38164.194	2.5	D6S (1D)2D	163.4767	-5.841	26170.181	5.5	D6S (3H)2H
162.6894	-0.857	104705.420	3.5	5D (5D)6D	163.4886	-3.400	105398.852	5.5	4D (3F)4H
162.7020	-1.534	104120.270	2.5	5D (5D)6F	163.5140	-6.346	0.000	4.5	D6S (5D)6D
162.7130	-2.747	667.683	2.5	D6S (5D)6D	163.5362	-2.718	977.053	0.5	D6S (5D)6D
162.7382	-1.343	2837.950	2.5	D7 (5D)4F	163.5401	-0.242	7955.299	3.5	D6S (5D)4F
162.8122	-5.182	22939.358	2.5	D6S (3F)4F	163.5527	-3.296	104380.940	3.5	5D (5D)6F
162.8240	-4.624	31483.176	3.5	D6S (3D)4D	163.5693	-1.345	104757.110	0.5	5D (5D)6D
162.8440	-7.541	27314.922	3.5	D6S (3F)2F	163.5793	-2.448	13474.411	2.5	D7 (5D)4F
162.8473	-6.089	30764.485	3.5	D6S (3G)2G	163.5835	-4.572	31999.048	3.5	D7 (5D)2F
162.8722	-4.219	667.683	2.5	D6S (5D)6D	163.5916	-6.689	384.790	3.5	D6S (5D)6D
162.8762	-2.490	31999.048	3.5	D7 (5D)2F	163.6010	-4.622	25805.328	4.5	D6S (3G)4G
162.8881	-1.230	104630.430	1.5	5D (5D)6F	163.6138	-2.341	31483.176	3.5	D6S (3D)4D
162.8938	-6.492	30764.485	3.5	D6S (3G)2G	163.6152	-8.332	26352.766	4.5	D6S (3H)2H
162.9145	-3.888	862.613	1.5	D6S (5D)6D	163.6331	-0.885	862.613	1.5	D6S (5D)6D
162.9160	-0.745	667.683	2.5	D6S (5D)6D	163.6520	-3.570	47674.721	1.5	D7 (5D)2D
162.9371	-0.640	16369.360	3.5	D7 (5D)2G	163.6520	-3.570	47674.721	1.5	D7 (5D)2D
162.9931	-3.931	30764.485	3.5	D6S (3G)2G	163.6955	-3.289	31364.440	1.5	D6S (3D)4D
162.9989	-1.016	104588.710	1.5	5D (5D)6D	163.6999	-3.634	31811.822	2.5	D7 (5D)2F
163.0189	-1.244	104000.810	3.5	5D (5D)6D	163.7063	-3.022	31368.450	0.5	D6S (3D)4D
163.0223	-4.131	384.790	3.5	D6S (5D)6D	163.7262	-4.252	105524.461	4.5	4D (3F)4H
163.0499	-2.238	31364.440	1.5	D6S (3D)4D	163.7375	-2.104	36252.918	2.5	D6S (3D)2D
163.0563	-4.463	23031.300	1.5	D6S (3F)4F	163.7399	-0.646	1872.567	4.5	D7 (5D)4F
163.0662	-5.086	30764.485	3.5	D6S (3G)2G	163.7711	-4.449	22810.357	3.5	D6S (3F)4F
163.0943	-3.397	32875.646	6.5	D6S (11)2I	163.7774	-3.405	105291.010	3.5	4D (3F)4G
163.1110	-1.509	3117.461	1.5	D7 (5D)4F	163.7776	-4.710	667.683	2.5	D6S (5D)6D
163.1124	-2.659	31387.948	2.5	D6S (3D)4D	163.7785	-5.200	22810.357	3.5	D6S (3F)4F
163.1128	-1.061	667.683	2.5	D6S (5D)6D	163.7859	-8.695	23317.633	2.5	D5S2(7S)6S
163.1279	-5.261	26170.181	5.5	D6S (3H)2H	163.8212	-8.695	26932.748	0.5	D6S (3P)2P
163.1332	-7.745	27314.922	3.5	D6S (3F)2F	163.8709	-4.041	13474.411	2.5	D7 (5D)4F
163.1525	-1.448	103950.590	4.5	5D (5D)6F	163.9090	-0.912	104630.430	1.5	5D (5D)6F
163.1536	-4.225	105224.461	4.5	4D (3F)4H	163.9273	-2.094	105449.540	3.5	5D (5D)4G
163.1616	-4.238	862.613	1.5	D6S (3D)4D	163.9401	-1.030	977.053	0.5	D6S (5D)6D
163.1772	-2.059	31364.440	1.5	D6S (3D)4D	163.9501	-2.049	31368.440	1.5	D6S (3D)4D
163.1854	-4.658	32909.905	5.5	D6S (11)2I	163.9609	-1.456	31368.450	1.5	D6S (3D)4D
					163.9628	-6.184	0.000	4.5	D6S (5D)6D
					163.9661	-7.576	26352.766	4.5	D6S (3H)2H

163.9882	-4.133	25787.598	1.5	D6S	(3P)2P	86767.577	2.5	4P	(3P)4D	164.4756	-2.030	31483.176	3.5	D6S	(3D)4D	92282.460	3.5	4SP	(5G)4F
163.9919	-0.875	105211.140	4.5	5D	(5D)4G	44232.512	4.5	4P	(5D)4F	164.4982	-2.317	31483.176	3.5	D6S	(3D)4D	92274.120	2.5	4P	(3P)4P
164.0133	-3.158	31387.948	2.5	D6S	(3D)4D	92358.610	1.5	4SP	(5G)4F	164.4984	-2.665	31811.822	2.5	D7	(5D)2F	92602.703	3.5	4P	(3F)2G
164.0150	-5.196	8680.454	1.5	D6S	(5D)4D	96950.484	2.5	4P	(3G)2F	164.5016	-2.173	1872.567	4.5	D7	(5D)4F	62662.244	5.5	4P	(3H)2I
164.0152	-0.800	3117.461	1.5	D7	(5D)4F	64087.418	2.5	4P	(3F)4G	164.5117	-5.206	25981.629	3.5	D6S	(3G)4G	86767.577	2.5	4P	(3P)4D
164.0211	-2.213	104588.710	1.5	5D	(5D)6D	43620.957	1.5	4P	(5D)6P	164.5181	-4.634	103118.400	1.5	6S	(5D)6P	42334.822	2.5	4P	(5D)6F
164.0223	-3.288	105414.180	2.5	4D	(3F)4G	44446.878	3.5	4P	(5G)4D	164.5194	-7.274	30388.542	4.5	D6S	(3G)2G	91167.937	3.5	5P	(5D)6P
164.0273	-1.276	31364.440	1.5	D6S	(3D)4D	92329.890	2.5	4SP	(5G)4F	164.5294	-6.107	384.790	3.5	D6S	(5D)6D	61156.835	3.5	4P	(3H)4H
164.0275	-7.772	26932.748	0.5	D6S	(3P)2P	87898.120	0.5	4SP	(5G)6F	164.5531	-3.177	105524.461	4.5	4D	(3F)4H	44753.799	3.5	4P	(5D)4F
164.0507	-6.339	0.000	4.5	D6S	(3D)4D	60956.781	3.5	4P	(3H)4G	164.5651	-3.838	31387.948	2.5	D6S	(3D)4D	92154.165	3.5	4SP	(5D)6F
164.0681	-2.800	31364.440	1.5	D6S	(3D)4D	92314.758	0.5	5P	(5D)4G	164.5704	-0.927	105211.140	4.5	D6S	(3D)4D	44446.878	3.5	4P	(5D)4D
164.0742	-5.534	25981.629	3.5	D6S	(3G)4G	86929.649	3.5	4P	(3P)4D	164.5759	-2.062	104000.810	3.5	5D	(5D)6P	43238.586	2.5	4P	(5D)6P
164.0788	-2.895	31368.450	0.5	D6S	(3D)4D	92314.758	0.5	5P	(5D)4F	164.5823	-6.407	25787.598	1.5	D6S	(3P)2P	86547.490	2.5	4P	(1F)2F
164.0856	-0.769	31483.176	3.5	D6S	(3D)4D	92426.980	4.5	4SP	(5G)4F	164.5918	-4.371	25787.598	1.5	D6S	(3P)2P	86543.974	1.5	4P	(1F)4D
164.0906	-1.993	31387.948	2.5	D6S	(3D)4D	92329.890	2.5	4SP	(5G)4F	164.6185	-0.934	8680.454	1.5	D6S	(5D)4D	69426.980	0.5	4SP	(5S)4P
164.1129	-4.080	13673.185	1.5	D7	(5D)4P	74606.841	2.5	4P	(3D)2D	164.6241	-7.029	27314.922	3.5	D6S	(3P)2F	88059.380	2.5	4SP	(5P)6D
164.1252	-4.750	22939.358	2.5	D6S	(3F)4F	83868.450	2.5	4P	(1F)2D	164.6337	-4.607	48039.090	2.5	D7	(5D)2D	108780.000	1.5	2D0DD	
164.1309	-3.741	105711.730	2.5	5D	(5D)6S	44784.761	2.5	4P	(5D)4D	164.6510	-2.189	38164.194	2.5	D6S	(1D)2D	98898.710	3.5	4P	(1G)2F
164.1377	-4.937	18360.646	1.5	D7	(5D)2P	79285.110	2.5	4SP	(5S)6P	164.6706	-4.592	102842.119	4.5	5S	(3G)4G	42114.818	4.5	4P	(5D)6F
164.1428	-3.567	105155.090	4.5	4D	(3F)4F	44232.512	4.5	4P	(5D)4F	164.6811	-3.670	33466.463	4.5	D6S	(1G)2G	94189.880	5.5	4SP	(5G)4G
164.1681	-4.844	99573.225	4.5	5S	(3F)4F	38660.043	3.5	4P	(5D)6D	164.6983	-2.802	103118.400	1.5	6S	(5D)4D	42401.302	1.5	4P	(5D)6F
164.1762	-0.529	8391.938	2.5	D6S	(5D)4D	69302.090	1.5	4SP	(5S)4P	164.7117	-5.160	26055.423	2.5	D6S	(3G)4G	86767.577	2.5	4P	(3P)4D
164.1775	-1.956	31364.440	1.5	D6S	(3D)4D	92274.120	2.5	4P	(3F)4D	164.7163	-0.895	8391.938	2.5	D6S	(5D)4D	69102.380	2.5	4SP	(5S)4P
164.2032	-2.435	31999.048	3.5	D7	(5D)2F	92899.400	2.5	4P	(3F)4D	164.7212	-5.097	394.790	3.5	D6S	(5D)6D	61093.413	2.5	4P	(3P)2D
164.2184	-7.752	27314.922	3.5	D6S	(3F)2F	88209.450	3.5	4SP	(5P)6D	164.7330	-4.117	26932.748	0.5	D6S	(3P)2F	92089.260	3.5	4SP	(5G)4H
164.2184	-1.119	31387.948	2.5	D6S	(3D)4D	92282.460	3.5	4SP	(5G)4F	164.7424	-3.200	105155.090	4.5	4D	(3F)4G	44446.878	3.5	4P	(5D)4D
164.2371	-6.094	0.000	4.5	D6S	(5D)6D	60887.598	5.5	4P	(3H)4H	164.7528	-3.182	47674.721	1.5	D7	(5D)2D	108371.700	1.5	2D0DD	
164.2409	-2.343	31387.948	2.5	D6S	(3D)4D	92274.120	2.5	4P	(3F)4D	164.7562	-0.886	31387.948	2.5	D6S	(3D)4D	92089.260	3.5	4SP	(5G)4H
164.2427	-5.607	18360.646	1.5	D7	(5D)2P	79246.170	1.5	4SP	(5S)6P	164.7562	-0.886	31387.948	2.5	D6S	(3D)4D	92089.260	3.5	4SP	(5G)4H
164.2480	-1.978	31811.822	2.5	D7	(5D)2F	92695.374	2.5	4P	(3P)2D	164.7758	-1.974	33466.463	4.5	D6S	(1G)2G	94148.510	4.5	4SP	(5G)4G
164.2496	-0.808	18360.646	1.5	D7	(5D)2P	79243.586	2.5	4P	(5D)6P	164.7934	-4.174	33466.463	4.5	D6S	(1G)2G	94148.510	4.5	4SP	(5G)4G
164.2658	-2.344	105630.750	2.5	5D	(5D)4G	44753.799	3.5	4P	(5D)4F	164.7965	-1.160	49100.976	2.5	5D	(5D)4D	44446.878	3.5	4P	(5D)4D
164.2731	-8.436	26055.423	2.5	D6S	(3G)4G	86929.649	3.5	4P	(3P)4D	164.8016	-3.768	49100.976	2.5	5D	(5D)4D	44446.878	3.5	4P	(5D)4D
164.2997	-3.621	103265.694	0.5	6S	(5D)4D	42401.302	1.5	5P	(5D)4F	164.8028	-3.137	103118.400	1.5	6S	(5D)4D	42439.822	0.5	4P	(5D)6F
164.3086	-2.736	31364.440	1.5	D6S	(3D)4D	92225.538	1.5	5P	(5D)4P	164.8234	-4.412	31483.176	3.5	D6S	(3D)4D	92154.165	3.5	4SP	(5D)6F
164.3194	-4.420	31368.450	0.5	D6S	(3D)4D	92216.320	1.5	5P	(5D)4P	164.8275	-7.441	26932.748	0.5	D6S	(3P)2P	87602.250	1.5	4SP	(5G)6F
164.3335	-3.188	31364.440	1.5	D6S	(3D)4D	92216.320	1.5	5P	(5D)4P	164.8314	-5.738	22637.205	4.5	D6S	(3F)4F	83305.251	3.5	4P	(1F)2G
164.3443	-2.471	31368.450	0.5	D6S	(3D)4D	92216.320	1.5	5P	(5D)4P	164.8327	-2.661	105711.730	2.5	D6S	(5D)6D	61332.764	1.5	4P	(3P)4P
164.3474	-2.400	31483.176	3.5	D6S	(3D)4D	92329.890	2.5	4SP	(5G)4F	164.8395	-3.818	667.683	2.5	D6S	(5D)6D	61332.764	1.5	4P	(3P)4P
164.3494	-2.096	105630.750	2.5	5D	(5D)4G	44784.761	2.5	4P	(5D)4D	164.8403	-1.127	105449.540	3.5	5D	(5D)4G	44784.761	2.5	4P	(5D)4D
164.3544	-2.686	105291.010	3.5	4D	(3F)4G	44446.878	3.5	4P	(3F)4D	164.8522	-4.598	105414.180	2.5	4D	(3F)4G	44753.799	3.5	4P	(5D)4F
164.3578	-0.721	2430.097	3.5	D7	(5D)4F	92272.976	2.5	5P	(5D)4P	164.8615	-5.875	384.790	3.5	D6S	(5D)6D	61041.748	2.5	4P	(3H)4G
164.3721	-2.333	31387.948	2.5	D6S	(3D)4D	92225.538	1.5	5P	(5D)4P	164.8688	-4.425	31364.440	1.5	D6S	(3D)4D	92018.729	2.5	4SP	(5D)6F
164.3732	-5.306	23031.300	1.5	D6S	(3F)4F	83868.450	2.5	4P	(1F)2D	164.8879	-4.420	33501.253	3.5	D6S	(1G)2G	94148.510	4.5	4SP	(5G)4G
164.3772	-2.850	31811.822	2.5	D7	(5D)2F	92647.510	1.5	4P	(3F)4D	164.9057	-1.636	104873.230	3.5	5D	(5D)4D	44232.512	4.5	4P	(5D)4F
164.3774	-3.857	105589.420	3.5	4D	(3F)4H	44753.799	3.5	4P	(5D)4F	164.9186	-2.629	104868.500	4.5	5D	(5D)6G	44232.512	4.5	4P	(5D)4F
164.3841	-3.455	105065.630	3.5	5D	(5D)6G	44232.512	4.5	4P	(5D)4F	164.9250	-2.905	105711.730	2.5	D6S	(3D)4D	92116.780	4.5	4SP	(5G)4H
164.3898	-1.927	105063.550	5.5	4D	(3F)4G	44232.512	4.5	4P	(5D)4F	164.9298	-2.472	105711.730	2.5	D6S	(3D)4D	92116.780	4.5	4SP	(5G)4H
164.3970	-4.081	31387.948	2.5	D6S	(3D)4D	92216.320	1.5	4P	(3P)2D	164.9324	-0.062	104863.430	5.5	5D	(5D)6S	45079.879	2.5	4P	(5D)4F
164.3942	-4.981	99688.337	3.5	5S	(3F)4F	38858.958	2.5	4P	(5D)6D	164.9364	-3.166	105414.180	2.5	4D	(3F)4G	44784.761	2.5	4P	(5D)4F
164.4037	-3.137	103265.694	0.5	6S	(5D)4D	42439.822	0.5	4P	(5D)6F	164.9426	-0.801	2837.950	2.5	D7	(5D)4F	63465.109	1.5	4P	(3P)4D
164.4064	-3.175	13673.185	1.5	D7	(5D)4P	74498.057	1.5	4P	(3D)2D	164.9472	-5.237	0.000	4.5	D6S	(5D)6D	60625.449	5.5	4P	(3H)4G
164.4274	-2.934	31483.176	3.5	D6S	(3D)4D	92300.277	4.5	4SP	(5D)6F	164.9576	-0.826	8680.454	1.5	D6S	(5D)4D	69302.090	1.5		

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
165.0038	-6.551	384.790	3.5	D6S (5D)6D	165.5253	-2.572	31811.822	2.5	D7 (5D)2F
165.0065	-3.251	31999.048	3.5	D7 (5D)2F	165.5506	-0.541	31811.822	2.5	D7 (5D)2F
165.0132	-5.033	25787.598	1.5	D6S (3P)2P	165.5534	-8.010	30764.485	3.5	D6S (3G)2G
165.0349	-4.515	13904.824	0.5	D7 (5D)4F	165.5594	-1.983	105155.090	4.5	4P (3F)4G
165.0433	-4.761	48039.090	2.5	D7 (5D)2D	165.5601	-2.981	102802.312	2.5	6S (5D)4D
165.0464	-8.646	27620.412	2.5	D6S (3F)2F	165.5846	-5.129	30388.542	4.5	D6S (3G)2G
165.0530	-1.538	105630.750	2.5	5D (5D)4G	165.6142	-1.706	104828.160	2.5	5D (5D)6D
165.0704	-0.935	8846.768	0.5	D6S (5D)4D	165.6340	-7.095	667.683	2.5	D6S (5D)6D
165.0795	-5.149	26352.766	4.5	D6S (3H)2H	165.6343	-1.881	105127.770	2.5	5D (5D)4D
165.0928	-6.038	384.790	3.5	D6S (5D)6D	165.6452	-2.990	105414.180	2.5	4D (3F)4G
165.0928	-4.785	33501.253	3.5	D6S (1G)2G	165.6461	-0.425	105449.540	3.5	5D (5D)4G
165.1095	-5.306	25981.629	3.5	D6S (3G)4G	165.6565	-4.616	22939.358	2.5	D6S (3F)4F
165.1111	-3.280	102802.312	2.5	6S (5D)4D	165.6706	-1.466	104593.270	5.5	5D (5D)6G
165.1374	-4.346	38214.507	1.5	D6S (1D)2D	165.6743	-7.526	18886.780	0.5	D7 (5D)2P
165.1504	-1.078	105630.750	2.5	5D (5D)4G	165.6814	-3.656	18886.780	0.5	D7 (5D)2P
165.1505	-7.567	23317.633	2.5	D5S2(7S)6S	165.6844	-3.811	977.053	0.5	D6S (5D)6D
165.1596	-4.982	31368.450	0.5	D6S (3D)4D	165.7065	-1.909	3117.461	1.5	D7 (5D)4F
165.1615	-1.361	31811.822	2.5	D7 (5D)2F	165.7159	-6.924	27620.412	2.5	D6S (3F)2F
165.1877	-2.705	105291.010	3.5	4D (3F)4G	165.7193	-0.825	105127.770	2.5	5D (5D)4D
165.2239	-2.373	31811.822	2.5	D7 (5D)2F	165.7249	-0.509	105630.750	2.5	D6S (1D)2D
165.2432	-4.848	47674.721	1.5	D7 (5D)2D	165.7432	-2.923	105414.180	2.5	4D (3F)4G
165.2484	-4.786	2430.407	3.5	D7 (5D)4F	165.7478	-4.106	48039.090	2.5	D7 (5D)2D
165.2632	-3.262	105589.420	3.5	4D (3F)4H	165.7527	-1.324	31999.048	3.5	D7 (5D)2F
165.2722	-2.789	105291.010	3.5	4D (3F)4G	165.7545	-0.684	18360.646	1.5	D7 (5D)2P
165.2790	-3.921	105288.530	1.5	5D (5D)6G	165.8049	-3.069	105065.630	3.5	5D (5D)6G
165.2862	-5.421	25981.629	3.5	D6S (3G)4G	165.8208	-5.459	30764.485	3.5	D6S (3G)2G
165.2911	-2.999	104120.270	2.5	5D (5D)6P	165.8208	-5.459	30764.485	3.5	D6S (3G)2G
165.3032	-5.166	22810.357	3.5	D6S (3F)4F	165.8401	-2.459	1872.567	4.5	D7 (5D)4F
165.3109	-4.585	26055.423	2.5	D6S (3G)4G	165.8675	-6.878	667.683	2.5	D6S (5D)6D
165.3189	-8.743	667.683	2.5	D6S (5D)6D	165.8772	-1.009	1872.567	4.5	D7 (5D)4F
165.3205	-7.775	26055.423	2.5	D6S (3G)4G	165.8831	-3.497	31999.048	3.5	D7 (5D)2F
165.3250	-3.256	33501.253	3.5	D6S (1G)2G	165.8901	-2.099	105065.630	3.5	5D (5D)6G
165.3403	-1.249	18360.646	1.5	D7 (5D)2P	165.8928	-2.098	102394.718	3.5	6S (5D)4D
165.3633	-1.665	104705.420	3.5	5D (5D)6D	165.9061	-1.859	31999.048	3.5	D7 (5D)2F
165.3695	-2.596	31811.822	2.5	D7 (5D)2F	165.9116	-3.038	49506.934	1.5	D6S (3F)4P
165.3708	-3.651	862.613	1.5	D6S (5D)6D	165.9327	-1.597	102666.694	0.5	6S (5D)6D
165.3709	-3.529	102584.963	5.5	5S (3G)4G	165.9482	-0.594	2430.097	3.5	D7 (5D)4F
165.3781	-2.440	102802.312	2.5	6S (5D)4D	165.9516	-0.795	104705.420	3.5	5D (5D)6D
165.3923	-4.011	31811.822	2.5	D7 (5D)2F	165.9544	-5.988	27314.922	3.5	D6S (3F)2F
165.4059	-0.319	105211.140	4.5	5D (5D)4G	165.9886	-1.231	102543.648	1.5	6S (5D)6D
165.4099	-4.286	47674.721	1.5	D7 (5D)2D	166.0280	-5.593	862.613	1.5	D6S (5D)6D
165.4109	-4.699	31387.948	2.5	D6S (3D)4D	166.0388	-1.542	102666.694	0.5	6S (5D)6D
165.4114	-1.633	8846.768	0.5	D6S (5D)4D	166.0500	-7.747	27314.922	3.5	D6S (3F)2F
165.4205	-4.491	105205.790	2.5	5D (5D)6G	166.0822	-2.213	105291.010	3.5	4D (3F)4G
165.4262	-1.788	1872.567	4.5	D7 (5D)4F	166.0839	-1.508	1872.567	4.5	D7 (5D)4F
165.4478	-0.988	3117.461	1.5	D7 (5D)4F	166.0881	-1.231	102543.648	1.5	6S (5D)6D
165.4562	-8.878	27620.412	2.5	D6S (3F)2F	166.1127	-4.585	105288.530	1.5	5D (5D)6G
165.4629	-4.888	103094.730	3.5	4S5S(7S)8S	166.1181	-4.534	48039.090	2.5	D7 (5D)2D
165.4670	-2.283	2837.950	2.5	D7 (5D)4F	166.1324	-1.197	1872.567	4.5	D7 (5D)4F
165.4864	-2.938	31999.048	3.5	D7 (5D)2F	166.1393	-3.809	38164.194	2.5	D6S (1D)2D
165.4880	-6.088	26055.423	2.5	D6S (3G)4G	166.1574	-4.949	102842.119	4.5	5S (3G)4G
165.4907	-0.862	104873.230	3.5	5D (5D)4D	166.1706	-6.945	862.613	1.5	D6S (5D)6D
165.4924	-5.402	667.683	2.5	D6S (5D)6D	166.1884	-7.479	862.613	1.5	D6S (5D)6D
165.5014	-7.335	384.790	3.5	D6S (5D)6D	166.1884	-2.339	31999.048	3.5	D7 (5D)2F
165.5028	-2.5024	105711.730	2.5	5D (5D)6S	166.2189	-2.222	105205.790	2.5	5D (5D)6G
165.5028	-1.852	8680.454	1.5	D6S (5D)4D	166.2298	-2.137	102394.718	3.5	6S (5D)4D
165.5037	-1.993	104868.500	4.5	5D (5D)6G	166.2321	-7.243	27314.922	3.5	D6S (3F)2F
165.5053	-3.246	105205.790	2.5	5D (5D)6G					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
166.2358	-2.668	3117.461	1.5	D7 (5D)4F	63272.976	2.5	4P (3F)4D	166.9001	-0.812	102030.912	3.5	6S (5D)6D
166.2425	-0.880	36126.387	1.5	D6S (3D)2D	96279.490	2.5	4SP(3G)2F	166.9004	-3.258	105205.790	2.5	5D (5D)6G
166.2441	-4.889	48039.090	2.5	D7 (5D)2D	108191.600	1.5	230DD	166.9112	-4.835	30388.542	4.5	D6S (3G)2G
166.2554	-2.910	104380.940	3.5	5D (5D)6F	44232.512	4.5	4P (5D)4F	166.9663	-1.981	2430.097	3.5	D7 (5D)4D
166.2574	-2.729	102802.312	2.5	6S (5D)4D	42658.224	3.5	4P (5D)6P	167.0012	-2.943	103118.400	1.5	6S (3D)4D
166.2722	-1.397	102543.648	1.5	6S (5D)6D	42401.302	1.5	4P (5D)6F	167.0165	-5.546	30764.485	3.5	D6S (3G)2D
166.2783	-4.277	38214.507	1.5	D6S (1D)2D	98354.660	2.5	4SP(5D)4F	167.0305	-3.402	36126.387	1.5	D6S (3D)2D
166.2880	-6.056	30764.485	3.5	D6S (3G)2G	90901.124	2.5	5P (5D)4F	167.0746	-0.403	1872.567	4.5	D7 (5D)4F
166.3064	-4.406	26352.766	4.5	D6S (3E)2H	86482.750	3.5	4P (1F)2F	167.0790	-1.421	2837.950	2.5	D7 (5D)4F
166.3129	-2.276	105414.180	2.5	4D (3F)4G	78487.153	1.5	4P (1D)2D	167.0965	-2.762	104630.430	1.5	5D (5D)8F
166.3222	-0.898	2837.950	2.5	D7 (5D)4F	45289.801	1.5	4P (5D)4F	167.0991	-1.510	3117.461	1.5	D7 (5D)4F
166.3236	-4.137	38214.507	1.5	D6S (1D)2D	62962.205	1.5	4P (3F)4D	167.0999	-4.169	31364.440	1.5	D6S (3D)4D
166.3356	-2.428	104873.230	3.5	5D (5D)4D	98338.280	1.5	4SP(5F)4S	167.1110	-3.035	31368.450	0.5	D6S (5D)4F
166.3403	-3.267	31999.048	3.5	D7 (5D)2F	44753.799	3.5	4P (5D)4F	167.1180	-3.011	105127.770	2.5	5D (5D)4D
166.3487	-1.990	104868.500	4.5	5D (5D)6G	92116.780	4.5	4SP(5G)4H	167.1254	-3.989	31364.440	1.5	D6S (3D)4D
166.3697	-2.388	2837.950	2.5	D7 (5D)4F	62945.038	3.5	4P (3F)4D	167.1366	-4.006	31368.450	0.5	D6S (3G)2D
166.3782	-0.728	36252.918	2.5	D6S (3D)2D	96356.960	3.5	4SP(3G)2F	167.1593	-7.463	30388.542	4.5	D6S (3G)2G
166.3788	-2.173	102543.648	1.5	6S (5D)6D	42439.822	0.5	4P (5D)6F	167.2130	-3.027	104588.710	1.5	5D (5D)6D
166.3920	-3.962	44929.550	2.5	D6S (1F)2F	105028.600	3.5	4SP(3I)4H	167.2412	-1.409	102030.912	3.5	6S (5D)6D
166.3923	-3.243	37227.326	0.5	D6S (1S)2S	97326.270	1.5	4SP(3P)2P	167.2427	-3.102	104873.230	3.5	5D (5D)4D
166.3974	-0.998	102334.112	2.5	6S (5D)6D	42237.033	3.5	4P (5D)6F	167.2689	-2.453	104828.160	2.5	5D (5D)6D
166.4116	-4.448	31483.176	3.5	D6S (3D)4D	91575.139	2.5	5P (5D)6P	167.2801	-4.586	31387.948	2.5	D6S (3D)4D
166.4129	-3.042	48039.090	2.5	D7 (5D)2D	108130.600	2.5	220DD	167.3128	-0.125	104000.810	3.5	5D (5D)6P
166.4348	-1.825	105127.770	2.5	5D (5D)4D	45044.168	1.5	4P (5D)4D	167.3464	-0.125	15844.650	4.5	D7 (5D)2G
166.4390	-2.511	105288.530	1.5	5D (5D)6G	45206.450	0.5	4P (5D)4D	167.3688	-3.239	104828.160	2.5	5D (5D)6D
166.4604	-3.288	104828.160	2.5	5D (5D)4D	42334.822	2.5	4P (5D)4F	167.3878	-6.405	36252.918	2.5	D6S (3D)2D
166.5005	-3.104	102394.718	3.5	6S (5D)4D	61035.287	0.5	4P (3P)4P	167.4019	-1.913	102394.718	3.5	6S (5D)4D
166.5051	-7.688	977.053	0.5	D6S (5D)6D	45079.879	2.5	4P (5D)4F	167.4188	-0.639	101698.489	4.5	6S (5D)6D
166.5337	-2.099	105127.770	2.5	5D (5D)4D	68000.788	4.5	4P (3G)2H	167.4256	-1.301	2430.097	3.5	D7 (5D)4F
166.5404	-5.670	7955.299	3.5	D6S (5D)4D	44784.761	2.5	4P (5D)4D	167.4388	-5.404	30764.485	3.5	D6S (3G)2G
166.5462	-2.029	104828.160	2.5	5D (5D)6D	96279.490	2.5	4SP(3G)2F	167.4440	-3.806	2430.097	3.5	D7 (5D)4F
166.5929	-2.031	36252.918	2.5	D6S (3D)2D	45206.450	0.5	4P (5D)4D	167.4535	-2.480	103950.590	4.5	5D (5D)6F
166.6005	-1.411	105230.290	0.5	5D (5D)4D	104937.800	4.5	4SP(3I)4H	167.4630	-2.970	13474.411	2.5	D7 (5D)4F
166.6035	-4.218	44915.046	3.5	D6S (1F)2F	93487.650	3.5	4P (3F)4F	167.4631	-3.806	1872.567	4.5	D7 (5D)4F
166.6078	-4.146	33466.463	4.5	D6S (1G)2G	93484.580	4.5	4P (3F)4F	167.4679	-4.561	104757.110	0.5	5D (5D)6D
166.6164	-3.428	33466.463	4.5	D6S (1G)2G	60402.342	2.5	4P (3E)4F	167.4716	-1.071	3117.461	1.5	D7 (5D)4F
166.6179	-6.664	384.790	3.5	D6S (5D)6D	90780.621	3.5	5P (5D)4F	167.4871	-3.348	31364.440	1.5	D6S (3D)4D
166.6219	-6.611	30764.485	3.5	D6S (3G)2G	90397.868	3.5	5P (5D)4D	167.4927	-3.095	50075.910	1.5	D6S (3F)4F
166.6408	-5.481	30388.542	4.5	D6S (3G)2G	42334.822	2.5	4P (5D)6F	167.4927	-2.628	103936.600	5.5	5D (5D)6F
166.6686	-1.345	102334.112	2.5	6S (5D)6D	45289.801	1.5	4P (5D)4F	167.5152	-2.668	102030.912	3.5	6S (5D)6D
166.6702	-3.636	105288.530	1.5	5D (5D)6G	90386.528	4.5	5P (5D)4F	167.5470	-4.382	31364.440	1.5	D6S (3D)4D
166.6723	-6.863	30388.542	4.5	D6S (3G)2G	83305.251	3.5	4P (1F)2G	167.5496	-3.315	31364.440	1.5	D6S (3D)4D
166.7011	-9.974	23317.633	2.5	D5S2(7S)6S	45079.879	2.5	4P (1F)2G	167.5530	-3.236	31387.948	2.5	D6S (3D)4D
166.7063	-2.653	105065.630	3.5	5D (5D)6G	87602.250	1.5	4SP(5G)6F	167.5609	-4.100	31368.450	0.5	D6S (3D)4D
166.7171	-6.255	27620.412	2.5	D6S (3F)2F	44446.878	3.5	4P (5D)4D	167.5637	-7.860	30388.542	4.5	D6S (3G)2G
166.7234	-2.226	104426.460	2.5	5D (5D)6F	44446.878	3.5	4P (5D)4D	167.5719	-1.837	102334.112	2.5	6S (5D)6D
166.7645	-2.158	104411.690	4.5	5D (5D)6D	96217.420	3.5	4SP(5P)4D	167.5789	-4.905	104120.270	2.5	5D (5D)6P
166.7653	-4.506	36252.918	2.5	D6S (3D)2D	78841.960	0.5	4P (1D)2F	167.5809	-4.625	104426.460	2.5	5D (5D)6F
166.7913	-0.864	18886.780	0.5	D7 (5D)2F	87572.431	2.5	4SP(5G)6F	167.5916	-1.667	13474.411	2.5	D7 (5D)4F
166.8001	-7.266	27620.412	2.5	D6S (3F)2F	44753.799	3.5	4P (5D)4F	167.6068	-4.268	33466.463	4.5	D6S (1G)2G
166.8012	-2.172	104705.420	3.5	5D (5D)6D	44232.512	4.5	4P (5D)4F	167.6156	-4.079	31387.948	2.5	D6S (3D)4D
166.8286	-3.771	104174.270	5.5	4D (3H)4I	45289.801	1.5	4P (5D)4F	167.6224	-3.258	104411.690	4.5	5D (5D)6D
166.8321	-2.352	105230.290	0.5	5D (5D)4D	44446.878	3.5	4P (5D)4F	167.6327	-3.510	30388.542	4.5	D6S (3G)2G
166.8500	-1.684	104380.940	3.5	5D (5D)6F	42401.302	1.5	4P (5D)4D	167.6361	-1.564	2430.097	3.5	D7 (5D)4F
166.8535	-2.260	102334.112	2.5	6S (5D)6D	44784.761	2.5	4P (5D)6F	167.6594	-3.514	103265.694	0.5	6S (5D)4D
166.8874	-2.018	104705.420	3.5	5D (5D)6D	87537.652	3.5	4SP(5G)6F	167.6599	-2.471	104426.460	2.5	5D (5D)6F
166.8969	-8.325	27620.412	2.5	D6S (3F)2F								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
167.6690	-4.018	36126.387	1.5	D6S (3D)2D	93767.700	0.5	4SP(5P)4D	168.5384	-3.974	2837.950	2.5	D7 (5D)4F
167.6725	-3.565	1872.567	4.5	D7 (5D)4F	16512.634	4.5	4P (3H)4I	168.5974	-1.170	2837.950	2.5	D7 (5D)4F
167.6805	-2.430	50142.786	2.5	D6S (3F)4F	109780.000	1.5	280DD	168.6050	-4.522	27620.412	2.5	D6S (3F)2F
167.6856	-1.867	2430.097	3.5	D7 (5D)4F	62065.521	3.5	4P (3F)4F	168.6197	-1.701	102543.648	1.5	6S (5D)6D
167.6913	-6.309	30764.485	3.5	D6S (3G)2G	90397.868	3.5	5P (5D)4D	168.6250	-8.170	30764.485	3.5	D6S (3G)2G
167.7089	-2.583	104380.940	3.5	5D (5D)6F	44753.799	3.5	4P (5D)4F	168.6310	-4.877	104380.940	3.5	5D (5D)6F
167.7134	-3.086	104705.420	3.5	5D (5D)6D	45079.879	2.5	4P (5D)4F	168.6372	-4.070	104588.710	1.5	5D (5D)6D
167.7232	-7.539	30764.485	3.5	D6S (3G)2G	90386.528	4.5	5P (5D)4F	168.6413	-3.277	31483.176	3.5	D6S (3D)4D
167.7320	-5.443	2430.097	3.5	D7 (5D)4F	62049.025	2.5	4SP(7S)6P	168.6455	-1.033	2430.097	3.5	D7 (5D)4F
167.7438	-3.417	27314.922	3.5	D6S (3F)2F	86929.649	3.5	4P (3P)4D	168.6598	-4.701	32875.646	6.5	D6S (1I)2I
167.7536	-5.774	26932.748	0.5	D6S (3P)2P	86543.974	1.5	4P (3P)4D	168.6692	-1.652	2837.950	2.5	D7 (5D)4F
167.7708	-3.860	36252.918	2.5	D6S (3D)2D	95858.050	1.5	4SP(5P)4D	168.6788	-2.591	1872.567	4.5	D7 (5D)4F
167.7842	-0.709	18886.780	0.5	D7 (5D)2P	78487.153	1.5	4P (1D)2D	168.6788	-2.591	1872.567	4.5	D7 (5D)4F
167.7960	-4.310	104380.940	3.5	5D (5D)6F	44784.761	2.5	4P (5D)4D	168.6840	-2.606	13904.824	0.5	D7 (5D)4F
167.8239	-4.310	104630.430	1.5	5D (5D)6P	45044.168	1.5	4P (5D)4D	168.6958	-5.370	30764.485	3.5	D6S (3G)2G
167.8312	-1.670	101698.489	4.5	6S (5D)6D	42114.818	4.5	4P (5D)6F	168.7069	-3.289	31364.440	1.5	D6S (3D)4D
167.8402	-2.432	13474.411	2.5	D7 (5D)4F	73054.881	2.5	4P (1G)2F	168.7107	-2.839	49506.934	1.5	D6S (3P)4P
167.8629	-3.035	3117.461	1.5	D7 (5D)4F	62689.880	2.5	4P (3P)4D	168.7323	-4.311	31364.440	1.5	D6S (3D)4D
167.8777	-2.808	50212.826	2.5	D6S (3P)4F	109780.000	1.5	280DD	168.7427	-4.431	32909.905	5.5	D6S (1I)2I
167.8874	-2.269	102802.312	2.5	6S (5D)4D	43238.586	2.5	4P (5D)6P	168.7438	-4.977	31368.450	0.5	D6S (3D)4D
167.9243	-3.944	104757.110	0.5	5D (5D)6D	45206.450	0.5	4P (5D)4D	168.7573	-4.138	32909.905	5.5	D6S (1I)2I
167.9378	-0.272	16369.360	3.5	D7 (5D)2G	75915.215	2.5	4P (3D)2F	168.7739	-4.328	31387.948	2.5	D6S (3D)4D
167.9415	-3.268	104588.710	1.5	5D (5D)6D	50444.168	1.5	4P (5D)4D	168.7849	-3.078	104000.810	3.5	5D (5D)6P
167.9494	-1.091	13474.411	2.5	D7 (5D)4F	73016.147	3.5	4P (1G)2F	168.7993	-4.024	31387.948	2.5	D6S (3D)4D
167.9589	-4.018	104828.160	2.5	5D (5D)6D	60402.342	2.5	4P (3P)4F	168.8260	-4.769	27314.922	3.5	D7 (5D)2G
167.9637	-4.427	862.613	1.5	D6S (5D)6D	45289.801	1.5	4P (5D)4F	168.8289	-1.641	16369.360	3.5	D7 (5D)2G
167.9652	-6.019	30764.485	3.5	D6S (3G)2G	90300.625	3.5	5P (5D)6F	168.8403	-1.899	2837.950	2.5	D7 (5D)4F
167.9666	-9.289	30388.542	4.5	D6S (3G)2G	89924.175	5.5	5P (5D)6F	168.8475	-4.274	31368.450	0.5	D6S (3D)4D
168.0132	-2.844	103751.660	5.5	4D (3H)4E	44232.512	4.5	4P (5D)4F	168.8360	-4.236	104000.810	3.5	5D (5D)6P
168.0190	-4.949	32909.905	5.5	D6S (1I)2I	92426.980	4.5	4SP(5G)4F	168.8731	-3.687	104000.810	3.5	5D (5D)6P
168.0223	-4.661	13673.185	1.5	D7 (5D)4F	73189.110	1.5	4P (3D)2P	168.8873	-4.085	2837.950	2.5	D7 (5D)4F
168.0274	-4.026	13673.185	1.5	D7 (5D)4F	73187.280	0.5	4P (3D)2P	168.9225	-4.665	103983.310	3.5	5S (3G)2G
168.0300	-3.812	31387.948	2.5	D6S (3D)4D	90901.124	2.5	5P (5D)4F	168.9357	-2.409	33501.253	3.5	D6S (1G)2G
168.0364	-4.013	31387.948	2.5	D6S (3D)4D	90898.873	1.5	4P (3P)4F	168.9721	-2.988	102802.312	2.5	6S (5D)4D
168.0367	-3.041	103950.590	4.5	5D (5D)6F	44446.878	3.5	4P (5D)4D	168.9832	-1.400	13474.411	2.5	D7 (5D)4F
168.0621	-4.360	30388.542	4.5	D6S (3G)2G	89890.373	3.5	4P (3F)4G	169.0108	-2.549	27314.922	3.5	D6S (3F)2F
168.0744	-2.884	103118.400	1.5	6S (5D)6D	43620.957	1.5	4P (5D)6P	169.0272	-3.278	38164.194	2.5	D6S (1D)2D
168.1111	-1.480	2837.950	2.5	D7 (5D)4F	62322.431	3.5	4P (3H)2G	169.0273	-3.801	103608.909	4.5	5S (3G)2G
168.1378	-3.577	31364.440	1.5	D6S (3D)4D	90839.480	0.5	4P (3P)4F	169.0442	-4.249	48039.090	2.5	D7 (5D)2D
168.1491	-3.482	31368.450	0.5	D6S (3D)4D	90839.480	0.5	4P (3P)4F	169.0442	-4.249	48039.090	2.5	D7 (5D)2D
168.1762	-4.671	101698.489	4.5	6S (5D)6P	42237.033	3.5	4P (5D)4F	169.0698	-3.381	27620.412	2.5	D6S (3F)2F
168.1914	-5.463	26932.748	0.5	D6S (3P)2P	86388.820	0.5	4P (3P)4D	169.0758	-0.986	13474.411	2.5	D7 (5D)4F
168.2011	-4.688	27314.922	3.5	D6S (3F)2F	86767.577	2.5	4P (3P)4D	169.0989	-3.065	2837.950	2.5	D7 (5D)4F
168.2822	-3.732	104630.430	1.5	5D (5D)6P	45206.450	0.5	4P (5D)4D	169.1273	-1.288	3117.461	1.5	D7 (5D)4F
168.2993	-3.555	31483.176	3.5	D6S (3D)4D	90901.124	2.5	5P (5D)4F	169.1273	-1.288	3117.461	1.5	D7 (5D)4F
168.3356	-4.482	33501.253	3.5	D6S (1G)2G	92899.200	2.5	4P (3F)4F	169.1307	-3.727	30764.485	3.5	D6S (3G)2G
168.3709	-3.317	31387.948	2.5	D6S (3D)4D	62244.520	1.5	4P (3F)4F	169.1379	-3.480	31364.440	1.5	D6S (3D)4D
168.4004	-3.671	104426.460	2.5	5D (5D)6F	45044.168	1.5	4P (5D)4F	169.1564	-2.041	1872.567	4.5	D7 (5D)4F
168.4005	-4.134	104588.710	1.5	5D (5D)6D	45206.450	0.5	4P (5D)4D	169.1564	-2.041	1872.567	4.5	D7 (5D)4F
168.4010	-1.533	18360.646	1.5	D7 (5D)2P	77742.730	2.5	4P (1D)2D	169.1711	-4.712	38214.507	1.5	D6S (1D)2D
168.4021	-2.451	13673.185	1.5	D7 (5D)4F	73054.881	2.5	4P (1G)2F	169.2051	-3.991	33501.253	3.5	D6S (1G)2G
168.4223	-3.648	32875.646	6.5	D6S (1I)2I	92250.210	6.5	4SP(5G)4H	169.2175	-1.411	102334.112	2.5	6S (5D)6D
168.4276	-1.602	102030.912	3.5	6S (5D)6D	42658.224	3.5	4P (5D)6P	169.2316	-4.898	49100.976	0.5	D6S (3P)4P
168.4452	-3.344	104120.270	2.5	5D (5D)6P	44753.799	3.5	4P (5D)4F	169.2418	-4.808	31811.822	2.5	D7 (5D)2F
168.5017	-3.189	104426.460	2.5	5D (5D)6F	45079.879	2.5	4P (5D)4F	169.2499	-2.401	1872.567	4.5	D7 (5D)4F
168.5331	-3.164	104120.270	2.5	5D (5D)6P	44784.761	2.5	4P (5D)4D	169.2547	-3.376	2430.097	3.5	D7 (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
169.2732	-3.570	104120.270	2.5	5D (5D)6P	170.3031	-3.879	50187.813	3.5	D6S (3F)4F
169.3476	-1.194	13474.411	2.5	D7 (5D)4P	170.3083	-7.960	7955.299	3.5	D6S (5D)4D
169.3602	-1.575	102666.694	0.5	6S (5D)6D	170.3196	-1.754	102334.112	2.5	6S (5D)6D
169.3617	-4.613	7955.299	3.5	D6S (5D)4D	170.3243	-3.617	50157.452	4.5	D6S (3F)4F
169.3759	-0.988	104120.270	2.5	5D (5D)6P	170.3459	-2.414	50075.910	1.5	D6S (3F)4F
169.3936	-1.505	101698.489	4.5	6S (5D)6D	170.3735	-2.218	13474.411	2.5	D7 (5D)4P
169.4484	-2.502	3117.461	1.5	D7 (5D)4F	170.3972	-5.232	977.053	0.5	D6S (5D)6D
169.4630	-3.766	1872.567	4.5	D7 (5D)4F	170.4023	-2.399	49506.934	1.5	D6S (3F)4P
169.4681	-1.964	31387.948	2.5	D6S (3D)4D	170.4124	-3.238	50187.813	3.5	D6S (3F)4F
169.5037	-5.087	3117.461	1.5	D7 (5D)4F	170.4159	-9.085	30764.485	3.5	D6S (3G)2G
169.5093	-4.291	667.683	2.5	D6S (5D)6D	170.4435	-4.739	33501.253	3.5	D6S (1G)2G
169.6050	-3.621	30764.485	3.5	D6S (3G)2G	170.4643	-1.669	2430.097	3.5	D7 (5D)4F
169.6459	-1.539	33466.463	4.5	D6S (1G)2G	170.4643	-3.251	105630.750	2.5	5D (5D)4G
169.6884	-4.362	13673.185	1.5	D7 (5D)4F	170.4945	-4.846	93501.523	3.5	D6S (1G)2G
169.7013	-2.535	1872.567	4.5	D7 (5D)4F	170.4976	-2.921	50157.452	4.5	D6S (3F)4F
169.7052	-4.407	3117.461	1.5	D7 (5D)4F	170.5021	-4.110	33466.463	4.5	D6S (1G)2G
169.7114	-5.246	27620.412	2.5	D6S (3F)2F	170.5402	-2.074	50142.786	2.5	D6S (3F)4F
169.7139	-1.511	102543.648	1.5	6S (5D)6D	170.5504	-5.453	7955.299	3.5	D6S (3F)4P
169.7190	-4.629	104000.810	3.5	5D (5D)6P	170.5590	-4.685	37227.326	0.5	D6S (1S)2S
169.7225	-1.817	36126.387	1.5	D6S (3D)2D	170.5796	-3.186	49506.934	1.5	D6S (3F)4P
169.7369	-3.639	31483.176	3.5	D6S (3D)4D	170.5910	-2.823	13904.824	0.5	D7 (5D)4P
169.7424	-2.273	36126.387	1.5	D6S (3D)2D	170.6145	-1.869	2430.097	3.5	D7 (5D)4P
169.7428	-3.089	31387.948	2.5	D6S (3D)4D	170.6205	-3.325	102842.119	4.5	5S (3G)4G
169.7688	-4.332	103983.510	3.5	5S (3G)2G	170.6235	-2.724	8391.938	2.5	D6S (5D)4D
169.7696	-1.932	31483.176	3.5	D6S (3D)4D	170.6678	-2.888	8680.454	1.5	D6S (5D)4D
169.8135	-1.834	2837.950	2.5	D7 (5D)4F	170.6834	-3.728	33501.253	3.5	D6S (1G)2G
169.8315	-4.093	8391.938	2.5	D6S (3D)4D	170.6946	-3.449	31483.176	3.5	D6S (3D)2D
169.8438	-1.730	13474.411	2.5	D7 (5D)4F	170.7234	-3.710	36126.387	1.5	D6S (3D)2D
169.8809	-3.194	49506.934	1.5	D6S (3F)4P	170.7299	-3.230	25787.598	1.5	D6S (3F)2P
169.8879	-3.482	27620.412	2.5	D6S (3F)2F	170.7395	-1.059	13474.411	2.5	D7 (5D)4P
169.9020	-3.950	3117.461	1.5	D7 (5D)4F	170.7441	-3.321	50212.826	2.5	D6S (3F)4P
169.9088	-3.512	103608.909	4.5	5S (3G)2G	170.7446	-3.153	7955.299	3.5	D6S (5D)4D
169.9195	-1.083	13673.185	1.5	D7 (5D)4F	170.7495	-2.650	13673.185	1.5	D7 (5D)4P
169.9799	-4.540	104120.270	2.5	5D (5D)6P	170.7662	-4.124	31483.176	3.5	D6S (3D)4D
169.9852	-3.358	33501.253	3.5	D6S (1G)2G	170.7669	-1.294	2430.097	3.5	D7 (5D)4F
169.9908	-1.634	36252.918	2.5	D6S (3D)2D	170.7688	-4.012	36126.387	1.5	D6S (3D)2D
170.0158	-3.865	31811.822	2.5	D7 (5D)2F	170.7845	-2.363	50075.910	1.5	D6S (3F)4F
170.0176	-4.404	31483.176	3.5	D6S (3D)4D	170.8223	-4.781	37227.326	0.5	D6S (1S)2S
170.0260	-5.442	20516.960	2.5	D7 (5D)2D	170.8240	-0.923	13673.185	1.5	D7 (5D)4P
170.0656	-5.014	862.613	1.5	D6S (5D)6D	170.8622	-0.996	2430.097	3.5	D7 (5D)4F
170.0877	-3.086	36252.918	2.5	D6S (3D)2D	170.8675	-1.265	13904.824	0.5	D7 (5D)4P
170.0902	-1.345	102030.912	3.5	6S (5D)6D	170.9375	-5.348	20830.582	2.5	D6S (3P)4P
170.1077	-1.942	36252.918	2.5	D6S (1G)2G	170.9524	-3.949	13673.185	1.5	D7 (5D)4P
170.1224	-4.903	33501.253	3.5	D6S (1G)2G	170.9553	-1.766	2837.950	2.5	D7 (5D)4F
170.1465	-4.042	33501.253	3.5	D6S (1G)2G	170.9685	-0.547	13474.411	2.5	D7 (5D)4P
170.1602	-5.467	20516.960	2.5	D7 (5D)2D	170.9744	-2.436	50142.786	2.5	D6S (3F)4F
170.1719	-2.232	13474.411	2.5	D7 (5D)4F	170.9797	-2.959	50142.786	2.5	D6S (3F)4F
170.1726	-3.615	50142.786	2.5	D6S (3F)4F	170.9804	-3.874	36252.918	2.5	D6S (3D)2D
170.1939	-1.719	31673.185	1.5	D7 (5D)4F	170.9925	-2.673	105449.540	3.5	5D (5D)4G
170.2044	-0.137	1872.567	4.5	D7 (5D)4F	171.0172	-4.186	50157.452	4.5	D6S (3F)4F
170.2293	-3.166	105711.730	2.5	5D (5D)6P	171.0425	-7.395	30388.542	4.5	D6S (3G)2G
170.2417	-7.253	30388.542	4.5	D6S (3G)2G	171.0731	-5.700	20830.582	2.5	D6S (3P)4P
170.2750	-5.688	20516.960	2.5	D7 (5D)2D	171.0930	-2.017	36252.918	2.5	D6S (3D)2D
170.2802	-2.642	2430.097	3.5	D7 (5D)4F	171.0960	-4.954	10544.180	2.5	4D (3F)4G
170.2805	-2.369	20516.960	2.5	D7 (5D)2D	171.1061	-2.958	50187.813	3.5	D6S (3F)4F
		79243.600	1.5	4P (1D)2P	171.1086	-3.464	25428.784	5.5	D6S (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
171.1115	-4.060	50187.813	3.5	D6S (3F)4F	108629.250	2.5	4SP(3G)4G	171.1516	-4.070	102842.119	4.5	5S (3D)4G	44753.799	3.5	4P (5D)4F
171.1386	-3.556	36252.918	2.5	D6S (5D)2D	94685.090	2.5	4SP(5D)6P	172.1604	-4.074	36126.387	1.5	D6S (3C)2D	94211.739	2.5	4SP(5P)4P
171.1536	-3.005	8846.768	0.5	D6S (5D)4D	67273.826	1.5	4P (3F)2D	172.1711	-1.904	50157.452	4.5	D6S (3F)4F	108239.200	3.5	2400D
171.1684	-2.153	7955.299	3.5	D6S (5D)4D	66377.283	3.5	4P (3G)4F	172.1738	-2.369	25787.598	1.5	D6S (3P)2P	83868.450	2.5	4P (1F)2D
171.1793	-4.407	50212.826	2.5	D6S (3P)4P	108631.090	3.5	4SP(3G)4F	172.1806	-3.912	31811.822	2.5	D7 (5D)2F	89890.373	3.5	4P (3F)4G
171.1872	-4.504	20830.582	2.5	D6S (3P)4P	79246.170	1.5	4SP(5P)6P	172.1934	-1.508	103118.400	1.5	6S (5D)4D	45044.168	1.5	4P (5D)4F
171.1945	-3.003	50157.452	4.5	D6S (3F)4F	108570.560	4.5	4SP(3G)4G	172.2182	-3.549	25805.328	4.5	D6S (3G)4G	83871.184	4.5	4P (1F)2G
171.2195	-2.623	44929.550	2.5	D6S (1F)2F	103334.100	2.5	4SP(3D)2F	172.2379	-1.758	7955.299	3.5	D6S (5D)4D	45206.450	0.5	4P (3G)4F
171.2468	-2.791	102842.119	4.5	5S (3G)4F	44446.878	3.5	4P (5D)2D	172.2432	-1.758	7955.299	3.5	D6S (5D)4D	45206.450	0.5	4P (3G)4F
171.2835	-2.392	50187.813	3.5	D6S (3F)4F	108570.560	4.5	4SP(3G)4G	172.2514	-3.779	50075.910	1.5	D6S (3F)4F	108130.600	2.5	2400D
171.3000	-0.420	2430.097	3.5	D7 (5D)4F	60807.230	4.5	4P (3H)4G	172.2612	-2.193	50187.813	3.5	D6S (3F)4F	108239.200	3.5	2400D
171.3383	-7.679	30764.485	3.5	D6S (3G)2G	89128.561	3.5	4SP(5P)6P	172.2688	-4.068	50142.786	2.5	D6S (3F)4F	108191.600	1.5	2300D
171.3636	-2.595	102802.312	2.5	D6S (5D)4D	44446.878	3.5	4P (5D)4D	172.2694	-0.858	102802.312	2.5	6S (5D)4D	44753.799	3.5	4P (5D)4F
171.3650	-8.251	30764.485	3.5	D6S (3G)2G	89128.561	3.5	4SP(5P)6P	172.3354	-2.322	50212.826	2.5	D6S (3P)4P	108239.200	3.5	2400D
171.4241	-7.882	13673.185	1.5	D7 (5D)4F	72043.026	1.5	4P (3D)4F	172.3616	-1.190	102802.312	2.5	6S (5D)4D	44784.761	2.5	4P (5D)4D
171.4489	-2.134	50157.452	4.5	D6S (3F)4F	108483.870	5.5	4SP(3G)4G	172.4500	-3.653	8391.938	2.5	D6S (5D)4D	66377.283	3.5	4P (3G)4F
171.4620	-3.327	105711.730	2.5	5D (5D)6S	47389.779	1.5	4P (5D)4P	172.4574	-1.795	8391.938	2.5	D6S (5D)4D	66377.283	3.5	4P (3G)4F
171.4676	-3.070	8680.454	1.5	D6S (5D)4D	67000.517	2.5	4P (3F)2D	172.4769	-2.226	50212.826	2.5	D6S (3P)4P	108191.600	1.5	2300D
171.4710	-1.557	2837.950	2.5	D7 (5D)4F	61156.835	3.5	4P (3H)4H	172.4820	-6.310	21308.040	1.5	D6S (3F)4F	108130.600	2.5	2400D
171.5026	-3.151	13904.824	0.5	D7 (5D)4F	72212.978	0.5	4P (3D)4P	172.4851	-2.950	7955.299	3.5	D6S (5D)4D	65931.334	3.5	4P (3G)4G
171.5137	-4.779	26055.423	2.5	D6S (3G)4G	84359.800	1.5	4P (1F)2D	172.4855	-1.734	3117.461	1.5	D7 (5D)4F	61093.413	2.5	4P (3P)2D
171.5390	-4.086	50075.910	1.5	D6S (3F)4F	108371.700	1.5	2500D	172.4855	-1.230	103265.694	0.5	6S (5D)4D	45289.801	1.5	4P (5D)4F
171.5515	-0.730	13673.185	1.5	D7 (5D)4F	71964.710	2.5	4P (3D)4P	172.4963	-1.499	2430.097	3.5	D7 (5D)4F	60402.342	2.5	4P (3P)4P
171.5843	-6.113	8391.938	2.5	D6S (5D)4D	66672.334	3.5	4P (3G)4H	172.5024	-1.404	20516.960	2.5	D7 (5D)2D	78487.153	1.5	4P (1D)2D
171.6189	-2.861	44915.046	3.5	D6S (1F)2F	103183.700	3.5	4SP(3D)2F	172.5360	-7.679	30764.485	3.5	D6S (3G)2G	88723.400	4.5	4P (5D)6D
171.6321	-1.712	13904.824	0.5	D7 (5D)4F	72168.998	1.5	4P (3D)4F	172.5363	-3.525	36252.918	2.5	D6S (3C)2D	94211.739	2.5	4SP(5P)4P
171.6377	-1.734	2837.950	2.5	D7 (5D)4F	61093.413	2.5	4P (3P)2D	172.5690	-0.945	102394.718	3.5	6S (5D)4D	44446.878	3.5	4P (5D)4D
171.7004	-3.681	105630.750	2.5	5D (5D)4G	47389.779	1.5	4P (3P)2D	172.5840	-2.017	50187.813	3.5	D6S (3F)4F	108130.600	2.5	2200D
171.7082	-4.184	105205.790	2.5	5D (5D)6G	46967.444	2.5	4P (5D)4P	172.5979	-5.655	21308.040	1.5	D7 (5D)2D	79246.170	1.5	4SP(5S)6P
171.7107	-2.274	16369.360	3.5	D7 (5D)2G	74606.841	2.5	4P (3D)2D	172.6056	-0.811	21308.040	1.5	D7 (5D)2D	79246.170	1.5	4SP(5S)6P
171.7298	-3.331	50142.786	2.5	D6S (3F)4F	108371.700	3.5	2600D	172.6156	-2.391	8680.454	1.5	D6S (5D)4D	66612.656	1.5	4P (3G)4F
171.7360	-2.223	50142.786	2.5	D6S (3F)4F	108371.700	3.5	2600D	172.6392	-0.725	3117.461	1.5	D7 (5D)4F	61041.748	2.5	4P (3H)4G
171.7446	-7.934	30388.542	4.5	D6S (3G)2G	88614.520	4.5	4SP(5P)6D	172.6584	-2.722	3117.461	1.5	D7 (5D)4F	61035.287	0.5	4P (3P)4P
171.7578	-2.049	103265.694	0.5	6S (5D)4D	45044.168	1.5	4P (5D)4D	172.6586	-2.935	50212.826	2.5	D6S (3P)4P	108130.600	2.5	2200D
171.7602	-3.279	8391.938	2.5	D6S (5D)4D	66612.656	1.5	4P (3G)4F	172.6753	-1.757	103118.400	1.5	D7 (5D)2F	89727.342	2.5	4P (3F)4G
171.7716	-1.999	18360.646	1.5	D7 (5D)2P	76577.482	0.5	4P (18)2P	172.6759	-1.986	15844.650	4.5	D7 (5D)2G	73751.282	4.5	4P (11)2H
171.7761	-2.486	3117.461	1.5	D7 (5D)4F	61332.764	1.5	4P (3P)4P	172.6918	-1.986	15844.650	4.5	D7 (5D)2G	73751.282	4.5	4P (11)2H
171.8101	-1.333	2837.950	2.5	D7 (5D)4F	61041.748	2.5	4P (3H)4G	172.6943	-1.068	104873.230	3.5	5D (5D)4D	46967.444	2.5	4P (5D)4P
171.8427	-2.360	38164.194	2.5	D6S (1D)2D	61041.748	2.5	4P (3H)4G	172.6967	-4.662	36126.387	1.5	D6S (3D)2D	94031.378	0.5	4SP(5D)6D
171.8627	-3.746	50187.813	3.5	D6S (3F)4F	108373.800	3.5	2600D	172.7375	-2.685	31999.048	3.5	D7 (5D)2F	89890.373	3.5	4P (3F)4G
171.8984	-0.942	20516.960	2.5	D7 (5D)2D	78690.846	2.5	4P (1D)2D	172.7427	-4.468	25981.629	3.5	D6S (3G)4G	83871.184	4.5	4P (1F)2G
171.9330	-0.769	102394.718	3.5	6S (5D)4D	44232.512	4.5	4P (5D)4F	172.7497	-4.217	102334.112	2.5	6S (3G)4G	44446.878	3.5	4P (5D)4D
171.9385	-1.266	105127.770	2.5	5D (5D)4D	46967.444	2.5	4P (5D)4P	172.7509	-5.326	25981.629	3.5	D6S (3G)4G	83868.450	2.5	4P (1F)2D
171.9428	-4.392	50212.826	2.5	D6S (3P)4P	108371.700	1.5	2500D	172.8256	-2.263	36126.387	1.5	D6S (3D)2D	93988.170	2.5	4SP(5G)4G
172.0039	-0.896	13904.824	0.5	D7 (5D)4F	72043.026	1.5	4P (3D)4P	172.8258	-2.011	104828.160	2.5	5D (5D)6D	46967.444	2.5	4P (5D)4P
172.0271	-2.205	8391.938	2.5	D6S (5D)4D	66522.304	2.5	4P (3G)4F	172.8302	-3.515	20830.582	2.5	D6S (3P)4P	108130.600	2.5	4P (1D)2D
172.0427	-2.003	15844.650	4.5	D7 (5D)2G	73969.767	5.5	4P (11)2I	172.8607	-8.058	30764.485	3.5	D6S (3G)2G	88614.520	4.5	4SP(5P)6D
172.0610	-4.537	7955.299	3.5	D6S (5D)4D	66078.269	2.5	4P (3G)4G	172.8852	-1.959	8680.454	1.5	D6S (5D)4D	66522.304	2.5	4P (3G)4F
172.0693	-0.585	2837.950	2.5	D7 (5D)4F	60956.781	3.5	4P (3H)4G	172.8892	-1.974	105230.290	0.5	5D (5D)4D	47389.779	1.5	4P (5D)4P
172.0706	-4.342	50075.910	1.5	D6S (3F)4F	108191.600	1.5	2300D	172.9162	-4.225	38164.194	2.5	D6S (1D)2D	95995.690	2.5	4SP(5P)4D
172.0717	-3.224	38164.194	2.5	D6S (1D)2D	96279.490	2.5	4SP(3G)2F	172.9248	-1.852	103118.400	1.5	6S (5D)4D	45289.801	1.5	4P (5D)4F
172.1224	-2.654	105065.630	3.5	5D (5D)6G	46967.444	2.5	4P (5D)4P	172.9478	-8.852	30388.542	4.5	D6S (3G)2G	88209.450	3.5	4SP(5P)6D
172.1277	-3.860	50142.786	2.5	D6S (3F)4F	108239.200	3.5	2400D	172.9496	-2.550	36252.918	2.5	D6S (3C)2D	94073.240	3.5	4SP(5G)4G
172.1495	-8.635	30764.485	3.5	D6S (3G)2G	88853.533	3.5	5P (5D)6D	172.9625	-3.823	105205.790	2.5	5D (5D)6G	47389.779	1.5	4P (5D)4P
								172.9714	-5.827	26035.423	2.5	D6S (3G)4G	83868.450	2.5	4P (1F)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
172.9748	-3.214	37227.326	0.5	D6S (1S)2S	95039.200	1.5	4P (3P)2P	173.8574	-3.558	26352.766	4.5	D6S (3H)2H
172.9887	-2.261	50157.452	4.5	D6S (3F)4F	107964.700	4.5	210DD	173.8608	-4.459	99918.569	1.5	5S (3F)4F
173.0152	-1.924	102030.912	3.5	6S (5D)6D	107964.700	4.5	4P (5D)4F	173.8752	-3.694	102802.312	2.5	6S (5D)4D
173.0796	-2.020	50187.813	3.5	D6S (3F)4F	107964.700	4.5	210DD	173.8772	-4.708	37227.326	0.5	D6S (1S)2S
173.1038	-1.322	18360.646	1.5	D7 (5D)2P	76129.446	1.5	4P (1S)2P	173.9133	-3.996	25805.328	4.5	D6S (3G)4G
173.1125	-2.109	8846.768	0.5	D6S (5D)4D	66612.656	1.5	4P (3G)4F	173.9146	-2.598	6S (5D)6D		
173.1336	-0.829	15844.650	4.5	D7 (5D)2G	73603.500	5.5	4P (11)2H	173.9456	-4.182	99824.045	2.5	5S (3F)4F
173.1358	-1.571	102802.312	2.5	6S (5D)4D	45044.168	1.5	4P (5D)4D	173.9773	-4.310	99918.569	1.5	5S (3F)4F
173.1606	-6.052	21581.638	4.5	D6S (3H)4H	79331.500	3.5	48P (5S)6P	173.9946	-5.295	21812.055	1.5	D6S (3P)4P
173.1787	-2.722	50142.786	2.5	D6S (3F)4F	107886.600	3.5	200DD	174.0160	-2.876	101698.489	4.5	6S (5D)6D
173.1879	-1.818	7955.299	3.5	D6S (5D)4D	65966.038	4.5	4P (3G)4G	174.0227	-3.217	102543.648	1.5	6S (5D)6D
173.1883	-4.827	31387.948	2.5	D6S (3D)4D	89128.561	3.5	48P (5P)6P	174.0334	-3.113	102666.694	0.5	6S (5D)6D
173.1962	-1.162	105127.770	2.5	5D (5D)4D	47389.779	1.5	4P (5D)4P	174.0371	-4.280	104426.460	2.5	5D (5D)6F
173.1962	-0.970	104705.420	3.5	5D (5D)6D	46967.444	2.5	4P (5D)4P	174.0389	-4.229	99573.225	4.5	5S (3F)4F
173.2044	-3.496	36252.918	2.5	D6S (3D)2D	93988.170	2.5	48P (5G)4G	174.0605	-4.031	99688.337	3.5	5S (3F)4F
173.2227	-1.986	50157.452	4.5	D6S (3F)4F	107886.600	3.5	200DD	174.0797	-8.071	104828.160	3.5	48P (5P)6P
173.2253	-3.428	31999.048	3.5	D7 (5D)2F	89727.342	2.5	4P (3F)4G	174.0996	-2.077	104876.485	2.5	5D (5D)6D
173.2429	-1.894	102802.312	2.5	6S (5D)4D	45079.879	2.5	4P (5D)4F	174.1125	-4.500	21812.055	1.5	D6S (3P)4P
173.2964	-4.848	36126.387	1.5	D6S (3D)2D	93830.979	2.5	48P (5D)6D	174.1203	-3.924	21812.055	1.5	D6S (3P)4P
173.3072	-2.058	26170.181	3.5	D6S (3H)2H	83871.184	4.5	4P (1F)2G	174.1340	-2.558	28932.748	0.5	D6S (3P)2P
173.3139	-2.664	50187.813	3.5	D6S (3F)4F	107886.600	3.5	200DD	174.1470	-4.170	99824.045	2.5	5S (3F)4F
173.3287	-4.494	38164.194	2.5	D6S (1D)2D	95858.050	1.5	48P (5P)4D	174.1751	-2.430	104380.940	3.5	5D (5D)6F
173.3382	-2.856	18886.780	0.5	D7 (5D)2P	76577.482	0.5	4P (1S)2P	174.2103	-3.725	8846.768	0.5	D6S (5D)4D
173.3425	-3.438	49506.934	1.5	D6S (3P)4P	107196.200	2.5	180DD	174.2227	-3.022	8680.454	1.5	D6S (5D)4D
173.3513	-3.449	8391.938	2.5	D6S (5D)4D	66078.269	2.5	4P (3G)4G	174.2682	-1.932	21308.040	1.5	D7 (5D)2D
173.3890	-2.892	50212.826	2.5	D6S (3P)4P	107886.600	3.5	200DD	174.2709	-0.804	10639.360	3.5	D7 (5D)2G
173.4410	-2.504	104630.582	1.5	5D (5D)6P	46967.444	2.5	4P (5D)4P	174.2862	-4.227	102666.694	0.5	6S (5D)6D
173.4428	-4.613	20830.582	2.5	D6S (3F)4P	78487.153	1.5	4P (1D)2D	174.3060	-4.593	31483.176	3.5	D6S (3D)4D
173.4504	-0.853	54275.637	2.5	D582(7S)4G	111929.000	2.5	290DD	174.3152	-3.398	104757.110	0.5	5D (5D)6D
173.4732	-2.142	54283.220	3.5	D582(7S)4G	111929.000	2.5	290DD	174.3372	-4.082	99688.337	3.5	5S (3F)4F
173.4744	-3.945	31483.176	3.5	D6S (3D)4D	89128.561	3.5	48P (5P)6P	174.4068	-3.125	102543.648	1.5	6S (5D)6D
173.4800	-4.136	38214.507	1.5	D6S (1D)2D	95858.050	1.5	48P (5P)4D	174.4099	-4.277	99573.225	4.5	5S (3F)4F
173.4879	-2.352	102394.718	3.5	6S (5D)4D	44753.799	3.5	4P (5D)4F	174.4103	-4.939	32875.646	6.5	D6S (11)21
173.4936	-3.904	31364.440	1.5	D6S (3D)4D	89003.460	0.5	4P (3P)2S	174.4239	-2.584	20805.770	4.5	D7 (5D)2H
173.5018	-4.976	31483.176	3.5	D6S (3D)4D	89119.457	2.5	5P (5D)6D	174.4482	-3.681	25981.629	3.5	D6S (3G)4G
173.5057	-3.793	31368.450	0.5	D6S (3D)4D	89003.460	0.5	4P (3P)2S	174.4994	-4.243	20830.582	2.5	D6S (3P)4P
173.5432	-4.696	102666.694	0.5	6S (5D)6D	45044.168	1.5	4P (5D)4D	174.5242	-1.652	15844.650	4.5	D7 (5D)2G
173.5470	-2.627	104588.710	1.5	5D (5D)6D	46967.444	2.5	4P (5D)4P	174.5356	-7.893	30764.485	3.5	D6S (3G)2G
173.5496	-1.553	20516.960	2.5	D7 (5D)2D	78137.364	3.5	4P (1D)2F	174.5561	-3.841	102334.112	2.5	6S (5D)6D
173.5521	-7.195	21711.917	3.5	D6S (3H)4H	79331.500	3.5	48P (5S)6P	174.5661	-3.340	3117.461	1.5	D7 (5D)4F
173.5811	-1.615	102394.718	3.5	6S (5D)4D	44784.761	2.5	4P (5D)4D	174.5898	-3.740	102030.912	3.5	6S (5D)6D
173.5984	-1.440	105230.290	0.5	D6S (5D)4D	47626.076	0.5	4P (5D)4P	174.6146	-3.352	36126.387	1.5	D6S (3D)2D
173.6082	-3.582	7955.299	3.5	D6S (5D)4D	65556.280	4.5	4P (3H)2H	174.6676	-2.646	101698.489	4.5	6S (5D)6D
173.6490	-4.247	36252.918	2.5	D6S (3D)2D	93840.340	1.5	48P (5D)6D	174.6730	-4.822	26055.423	2.5	D6S (3G)4G
173.6592	-1.625	102030.912	3.5	6S (5D)6D	44446.878	3.5	4P (5D)4D	174.6818	-0.190	15844.650	4.5	D7 (5D)2G
173.6705	-2.521	102334.112	2.5	6S (5D)6D	44753.799	3.5	4P (5D)4F	174.6842	-2.833	102030.912	3.5	6S (5D)6D
173.6873	-4.384	36252.918	2.5	D6S (3F)2D	93830.979	2.5	48P (5D)6D	174.6949	-1.933	104630.430	1.5	5D (5D)6P
173.6919	-6.829	21711.917	3.5	D6S (3H)4H	79285.110	2.5	48P (5S)6P	174.7010	-2.255	104630.430	1.5	5D (5D)6P
173.7070	-4.047	8680.454	1.5	D6S (5D)4D	66248.660	0.5	4P (3P)2S	174.7023	-3.656	31483.176	3.5	D6S (3D)4D
173.7185	-2.250	2837.950	2.5	D7 (5D)4F	60402.342	0.5	4P (3F)4P	174.7191	-3.374	36252.918	2.5	D6S (3D)2D
173.7482	-2.551	18360.646	1.5	D7 (5D)2P	75915.215	2.5	4P (3D)2F	174.7244	-4.535	20516.960	2.5	D7 (5D)2D
173.7523	-4.645	38214.507	1.5	D6S (1D)2D	95767.700	0.5	48P (5P)4D	174.7464	-2.865	104588.710	1.5	5D (5D)6D
173.7639	-2.095	102334.112	2.5	6S (5D)6D	44784.761	2.5	4P (5D)4D	174.8284	-3.367	104588.710	1.5	5D (5D)6D
173.7940	-2.431	8391.938	2.5	D6S (5D)4D	65931.334	3.5	4P (3G)4G	174.8890	-2.401	21308.040	1.5	D7 (5D)2D
173.8101	-2.996	44915.046	3.5	D6S (1F)2F	102449.100	2.5	48P (3D)2D	174.9123	-1.224	15844.650	4.5	D7 (5D)2G
173.8105	-3.636	21308.040	1.5	D7 (5D)2D	78841.960	0.5	4P (1D)2P	174.9358	0.028	109463.220	3.5	4SD(7S)8D
173.8539	-4.002	44929.550	2.5	D6S (1F)2F	102449.100	2.5	48P (3D)2D	174.9602	0.283	109455.220	2.5	4SD(7S)8D
								174.9647	-4.331	7955.299	3.5	D6S (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
174.9695	-2.837	104120.270	2.5	5D (5D)6P	46967.444	2.5	4P (5D)4P	176.3826	-4.871	31364.440	1.5	D6S (3D)4D
174.9777	0.298	109449.530	1.5	4SD(7S)8D	52299.390	2.5	4SP(7S)8P	176.3846	-3.924	22637.205	4.5	D6S (3F)4F
174.9809	-7.728	30388.542	4.5	D6S (3G)2G	87537.652	3.5	4SP(5G)6F	176.4119	-0.939	16369.360	3.5	D7 (5D)2D
175.0353	-3.672	31483.176	3.5	D6S (3D)4D	88614.520	4.5	4SP(5P)6D	176.4443	-3.813	21812.055	1.5	D6S (3F)4F
175.0362	-4.087	104757.110	0.5	5D (5D)6D	47626.076	0.5	4P (5D)4P	176.4481	-4.108	99332.102	4.5	5S (3H)2H
175.0691	-3.478	50075.910	1.5	D6S (3F)4F	107196.200	2.5	180DD	176.5325	-1.014	16369.360	3.5	D7 (5D)2G
175.1465	-4.492	99332.102	4.5	5S (3H)2H	42237.033	3.5	4P (5D)6F	176.5341	-4.968	36252.918	2.5	D6S (3D)2D
175.1828	-6.585	30388.542	4.5	D6S (3G)2G	87471.765	3.5	4SP(5G)6F	176.5401	-3.938	44929.550	2.5	D6S (1F)2F
175.2063	-4.033	36252.918	2.5	D6S (3D)2D	93328.480	1.5	4P (3F)4F	176.6778	-4.964	31364.440	1.5	D6S (3D)4D
175.2588	-3.740	54870.528	2.5	D6S (3F)2F	111929.200	2.5	290DD	176.7238	-4.903	99824.045	2.5	5S (3F)4F
175.2743	-2.937	50142.786	2.5	D6S (3F)4F	107196.200	2.5	180DD	176.7524	-4.559	33466.463	4.5	D6S (1G)2G
175.2870	-3.794	13474.411	2.5	D7 (5D)4P	107196.200	2.5	180DD	176.7549	-4.559	33466.463	4.5	D6S (1G)2G
175.3258	-2.926	104426.460	2.5	5D (5D)6F	47389.779	1.5	4P (5D)4P	176.7551	-3.342	38164.194	2.5	D6S (1D)2D
175.3360	-4.735	104000.810	3.5	5D (5D)6F	46967.444	2.5	4P (5D)4P	176.7615	-3.553	27314.922	3.5	D6S (3F)2F
175.3466	-4.397	21812.055	1.5	D6S (3P)4P	78841.960	0.5	4P (1D)2P	176.8168	-4.119	21581.638	4.5	D6S (3H)4H
175.3624	-4.139	54904.422	3.5	D6S (3F)2F	111929.200	2.5	290DD	176.8236	-2.920	27314.922	3.5	D6S (3F)2F
175.3684	-1.966	50142.786	2.5	D6S (3F)4F	107165.600	3.5	170DD	176.8625	-3.798	30388.542	4.5	D6S (3G)2G
175.4128	-2.654	50187.813	3.5	D6S (3F)4F	107196.200	2.5	180DD	176.8770	-2.240	38164.194	2.5	D6S (1D)2D
175.4325	-2.072	50157.452	4.5	D6S (3F)4F	107165.600	3.5	170DD	176.8887	-2.558	50137.452	4.5	D6S (3F)4F
175.4498	-3.320	104630.430	1.5	5D (5D)6P	47626.076	0.5	4P (5D)4P	176.8983	-4.940	31368.450	0.5	D6S (3D)4D
175.5035	-5.480	21711.917	3.5	D6S (3H)4H	78690.846	2.5	4P (1D)2D	176.9139	-4.040	38214.507	1.5	D6S (1D)2D
175.5070	-3.528	50187.813	3.5	D6S (3F)4F	107165.600	3.5	170DD	176.9249	-4.867	22810.357	3.5	D6S (3F)4F
175.5537	-4.560	104588.710	1.5	5D (5D)6D	47626.076	0.5	4P (5D)4P	176.9250	-4.943	36126.387	1.5	D6S (3D)2D
175.5841	-4.064	50212.826	2.5	D6S (3P)4P	107165.600	3.5	170DD	176.9275	0.771	109486.150	5.5	4SD(7S)8D
175.5850	-1.992	26352.766	4.5	D6S (3H)2H	83305.251	3.5	4P (1F)2G	176.9666	0.282	109473.650	4.5	4SD(7S)8D
175.5851	-1.992	26352.766	4.5	D6S (3H)2H	83305.251	3.5	4P (1F)2G	176.9681	-1.514	15844.650	4.5	D7 (5D)2G
175.5894	-4.501	102030.912	3.5	6S (5D)6D	45079.879	2.5	4P (5D)4F	176.9993	-0.418	109463.220	3.5	4SD(7S)8D
175.6992	-2.798	38164.194	2.5	D6S (1D)2D	95079.640	3.5	4P (3F)2F	177.0345	-3.096	38214.507	1.5	D6S (1D)2D
175.7006	-3.704	99573.225	4.5	5S (3F)4F	42658.224	3.5	4P (5D)6P	177.0703	-4.576	22810.357	3.5	D6S (3F)4F
175.7094	-5.385	20830.582	2.5	D6S (3P)4P	77742.730	2.5	4P (1D)2F	177.0848	-3.743	7955.299	3.5	D6S (5D)4D
175.7743	0.481	109473.650	4.5	4SD(7S)8D	52582.510	3.5	4SP(7S)8P	177.1487	-4.124	99688.337	3.5	5S (3F)4F
175.8028	-3.445	38164.194	2.5	D6S (1D)2D	95046.100	2.5	4P (3F)2F	177.1716	-2.051	36252.918	2.5	D6S (3D)2D
175.8065	0.400	109463.220	3.5	4SD(7S)8D	52582.510	3.5	4SP(7S)8P	177.1960	-1.968	21308.040	1.5	D7 (5D)2D
175.8125	-4.851	21812.055	1.5	D6S (3P)4P	78690.846	2.5	4P (1D)2D	177.2041	-4.711	22409.852	0.5	D6S (3P)4P
175.8180	-3.958	36252.918	2.5	D6S (3D)2D	93129.900	3.5	4P (3F)4D	177.2250	-5.803	21711.917	3.5	D6S (3H)4H
175.8191	-6.189	7955.299	3.5	D6S (5D)4D	64831.943	4.5	4P (3F)2G	177.2298	-3.655	33466.463	4.5	D6S (1G)2G
175.8242	-2.218	38164.194	2.5	D6S (1D)2D	95039.200	1.5	4P (3P)2P	177.2513	-0.396	15844.650	4.5	D7 (5D)2G
175.8312	0.025	109455.250	2.5	4SD(7S)8D	52582.510	3.5	4SP(7S)8P	177.3220	-3.499	36252.918	2.5	D6S (3D)2D
175.9049	-4.708	50157.452	4.5	D6S (3F)4F	107006.350	4.5	4SP(3I)2H	177.3297	-6.274	22939.358	2.5	D6S (3F)4F
175.9438	-4.611	22409.852	0.5	D6S (3P)4P	79246.170	1.5	4SP(5S)6P	177.3392	-3.823	33501.253	3.5	D6S (1G)2G
175.9518	-4.976	22409.852	0.5	D6S (3P)4P	79243.600	1.5	4P (1D)2P	177.3392	-3.823	33501.253	3.5	D6S (1G)2G
175.9585	-2.378	38214.507	1.5	D6S (1D)2D	95046.100	2.5	4P (3F)2F	177.4757	-5.204	22939.358	2.5	D6S (3F)4F
175.9773	-2.744	2837.950	2.5	D7 (5D)4F	59663.456	1.5	4P (3F)4S	177.5220	-2.587	7955.299	3.5	D6S (5D)4D
175.9798	-3.042	38214.507	1.5	D6S (1D)2D	95039.200	1.5	4P (3P)2P	177.5345	-3.257	36126.387	1.5	D6S (3D)2D
175.9889	-3.002	31387.948	2.5	D6S (3D)4D	88209.450	3.5	4SP(5P)6D	177.5984	-5.529	22939.358	2.5	D6S (3F)4F
175.9939	-1.398	15844.650	4.5	D7 (5D)2G	107006.350	4.5	4SP(3I)2H	177.6065	-4.505	22939.358	2.5	D6S (3F)4F
176.0377	-1.007	15844.650	4.5	D7 (5D)2G	72651.876	3.5	4P (3D)4D	177.6427	-4.891	47674.721	1.5	D7 (5D)2D
176.1372	-0.229	16369.360	3.5	D7 (5D)2G	72650.658	4.5	4P (3D)4F	177.6649	-1.664	15844.650	4.5	D7 (5D)2G
176.1395	-6.953	30764.485	3.5	D6S (3G)2G	73143.288	3.5	4P (1G)2G	177.6751	-2.199	16369.360	3.5	D7 (5D)2G
176.1406	-4.420	36126.387	1.5	D6S (3D)2D	87537.652	3.5	4SP(5G)6F	177.6789	-2.566	16369.360	3.5	D7 (5D)2G
176.2444	-3.233	27620.412	2.5	D6S (3F)2F	92899.200	2.5	4P (3F)4D	177.7099	-4.807	31364.440	1.5	D6S (3D)4D
176.2721	-3.093	104120.270	2.5	5D (5D)6P	84359.800	1.5	4P (1F)2D	177.7477	-4.630	100492.020	3.5	5S (3F)2F
176.2977	-1.717	16369.360	3.5	D7 (5D)2G	73091.590	4.5	4P (1F)2D	177.7657	-6.489	23031.300	1.5	D6S (3F)4F
176.3034	-2.197	50142.786	2.5	D6S (3F)4F	106863.200	3.5	160DD	177.7774	-2.753	16369.360	3.5	D7 (5D)2G
176.3117	-5.856	8391.938	2.5	D6S (5D)4D	65109.679	3.5	4P (3F)2G	177.7840	-3.277	27620.412	2.5	D6S (3F)2F
								177.7898	-1.561	18360.646	1.5	D7 (5D)2P
								177.8163	-4.506	31364.440	1.5	D6S (3D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
181.2923	-3.168	31387.948	2.5	D6S (3D)4D	86547.490	2.5	4P (1F)2F	182.5488	-2.009	99824.045	2.5	5S (3F)4F	45044.168	1.5	4P (5D)4D	
181.3039	-2.185	102587.948	1.5	6S (3D)6D	86543.974	1.5	4P (3P)4D	182.5671	-3.078	47674.721	1.5	D7 (5D)2D	102449.100	2.5	4SP(3D)2D	
181.3109	-3.121	102543.648	1.5	6S (5D)6D	47389.779	1.5	4P (5D)4D	182.5850	-3.281	20830.582	2.5	D6S (3P)4F	75600.931	3.5	4P (3D)2F	
181.3414	-2.044	48039.090	2.5	D7 (5D)2D	103183.700	3.5	4SP(3D)2F	182.5866	-2.733	31999.048	3.5	D7 (5D)2F	86767.577	2.5	4P (3P)4D	
181.3769	-4.169	99918.569	1.5	5S (3F)4F	44784.761	2.5	4P (5D)4D	182.5970	-5.303	21812.055	1.5	D6S (3P)4P	76577.482	0.5	4P (18)2P	
181.4015	-1.835	99573.225	4.5	5S (3F)4F	44446.878	3.5	4P (5D)4D	182.6484	-3.830	50187.813	3.5	D6S (3P)4F	104937.803	4.5	4SP(31)4H	
181.4295	-3.012	31811.822	2.5	D7 (5D)2F	86929.649	3.5	4P (3P)4D	182.6679	-2.480	99824.045	2.5	5S (3F)4F	45079.879	2.5	4P (5D)4F	
181.4422	-4.078	38214.507	1.5	D6S (1D)2D	93328.480	1.5	4P (3F)4F	182.6879	-1.810	44915.046	3.5	D6S (1F)2F	99653.220	4.5	4SP(3G)2G	
181.4896	-2.841	99332.102	4.5	5S (3H)2H	44232.512	4.5	4P (5D)4F	182.6962	-0.701	31811.822	2.5	D7 (5D)2F	86547.490	2.5	4P (1F)2F	
181.5038	-2.958	31387.948	2.5	D6S (3D)4D	86482.750	3.5	4P (1F)2F	182.6999	-2.257	7955.299	3.5	D6S (5D)4D	62689.880	2.5	4P (3P)4D	
181.5296	-4.676	37227.326	0.5	D6S (1S)2S	92314.758	0.5	5P (5D)4P	182.7080	-4.476	31811.822	2.5	D7 (5D)2F	86543.974	1.5	4P (3P)4D	
181.5388	-5.407	20830.582	2.5	D6S (3P)4F	75915.931	2.5	4P (3D)2F	182.7470	-1.781	44915.046	3.5	D6S (1F)2F	99635.520	3.5	4SP(3G)2G	
181.5410	-1.115	20516.960	2.5	D7 (5D)2D	75600.931	3.5	4P (3F)4D	182.7601	-3.735	54063.459	0.5	D6S (3P)2P	108780.000	1.5	270DD	
181.5766	-2.009	8391.938	2.5	D6S (5D)4D	63465.109	1.5	4P (3F)4D	182.7729	-2.037	8846.768	0.5	D6S (5D)4D	63559.488	0.5	4P (3F)4D	
181.5863	-3.318	99824.045	2.5	5S (3F)4F	44753.799	3.5	4P (5D)4F	182.7749	-2.208	99918.569	1.5	5S (3F)4F	45206.450	0.5	4P (5D)4D	
181.6058	-3.305	31483.176	3.5	D6S (3D)4D	86547.490	2.5	4P (1F)2F	182.7772	-5.321	23031.300	1.5	D6S (3F)4F	77742.730	2.5	4P (1D)2F	
181.6086	-1.883	102030.912	3.5	6S (5D)6D	46967.444	2.5	4P (5D)4F	182.7954	-3.346	44929.550	2.5	D6S (1F)2F	99635.520	3.5	4SP(3G)2G	
181.6840	-3.742	102666.694	0.5	6S (5D)6D	47626.076	0.5	4P (5D)4P	182.8346	-2.002	18360.646	1.5	D7 (5D)2P	73054.881	2.5	4P (1G)2F	
181.6876	-1.680	54232.195	5.5	D5S2(7S)4G	109271.710	5.5	4SP(3I)2I	182.8665	-4.952	38214.507	1.5	D6S (1D)2D	92899.200	2.5	4P (3F)4D	
181.6884	-2.752	99824.045	2.5	5S (3F)4F	44784.761	2.5	4P (5D)4D	182.8854	-2.010	15844.650	4.5	D7 (5D)2G	70523.706	3.5	4P (3G)2G	
181.7376	-2.327	31364.440	1.5	D6S (3D)4D	86388.820	0.5	4P (3P)4D	182.9126	-2.049	31811.822	2.5	D7 (5D)2F	86482.750	3.5	4P (1F)2F	
181.7509	-2.370	31368.450	0.5	D6S (3D)4D	86388.820	0.5	4P (3P)4D	182.9513	-3.737	50157.452	4.5	D6S (3F)4F	104816.800	5.5	4SP(31)4H	
181.8196	-3.007	31483.176	3.5	D6S (3D)4D	86482.750	3.5	4P (1F)2F	183.0262	-4.418	107219.500	4.5	D6S (7F)8P	52582.510	3.5	4SP(7S)8P	
181.8341	-3.923	37227.326	0.5	D6S (1S)2S	92225.538	1.5	5P (5D)4P	183.0269	-1.365	54232.195	5.5	D5S2(7S)4G	108868.980	4.5	4SP(3G)4H	
181.8246	-0.472	54273.641	4.5	D5S2(7S)4G	109271.710	5.5	4SP(3I)2I	183.0396	-1.390	54273.641	4.5	D5S2(7S)4G	108906.640	3.5	4SP(3G)4H	
181.8521	-1.493	7955.299	3.5	D6S (5D)4D	62945.038	3.5	4P (3F)4D	183.0436	-2.202	54273.641	2.5	D5S2(7S)4G	108906.640	3.5	4SP(3G)4H	
181.9316	-4.106	38164.194	2.5	D6S (1D)2D	93129.900	3.5	4P (3F)4D	183.0537	-2.701	99918.569	1.5	5S (3F)4F	45289.801	1.5	4P (5D)4F	
181.9646	-1.564	31811.822	2.5	D7 (5D)2F	86767.577	2.5	4P (3F)4D	183.0717	-0.207	8846.768	0.5	D6S (5D)4D	63465.109	1.5	4P (3F)4D	
182.0024	-2.459	102334.112	2.5	6S (5D)6D	47389.779	1.5	4P (5D)4P	183.0887	-1.987	99688.337	3.5	5S (3F)4F	45079.879	2.5	4P (5D)4F	
182.0420	-5.498	22810.357	3.5	D6S (3F)4F	77742.730	2.5	4P (1D)2F	183.1218	-3.428	183.1218	-3.428					
182.0479	-1.565	31999.048	3.5	D7 (5D)2F	86929.649	3.5	4P (3P)4D	183.1261	-1.045	21308.040	1.5	D7 (5D)2D	75915.215	2.5	4P (3D)2F	
182.0911	-3.182	102543.648	1.5	6S (5D)6D	47626.076	0.5	4P (5D)4D	183.1658	0.018	183.1658	0.018					
182.0914	-0.226	54232.195	5.5	D5S2(7S)4G	109149.680	6.5	4SP(3I)2I	183.1753	-1.873	183.1753	-1.873					
182.1179	-3.854	54870.528	2.5	D6S (3F)2F	109780.000	1.5	280DD	183.1980	0.201	183.1980	0.201					
182.1375	-1.847	99688.337	3.5	5S (3F)4F	44784.761	2.5	4P (5D)4D	183.2270	-0.331	183.2270	-0.331					
182.1714	-2.021	44915.046	3.5	D6S (1F)2F	99808.400	3.5	4P (1G)2G	183.2500	-2.290	183.2500	-2.290					
182.1964	-4.148	50142.786	2.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D	183.3076	-1.931	183.3076	-1.931					
182.1984	-2.246	99332.102	4.5	5S (3H)2H	44446.878	3.5	4P (5D)4D	183.3233	-1.931	183.3233	-1.931					
182.2123	-1.749	8391.938	2.5	D6S (5D)4D	63272.976	2.5	4P (3F)4D	183.3536	-4.716	183.3536	-4.716					
182.2190	-2.060	8680.454	1.5	D6S (5D)4D	63559.488	0.5	4P (3F)4D	183.3661	0.414	106836.000	3.5	4P2(7F)8P	52299.390	2.5	4SP(7S)8P	
182.2196	-2.088	44929.550	2.5	D6S (1F)2F	99808.400	3.5	4P (1G)2G	183.3662	0.252	54273.641	4.5	D5S2(7S)4G	108809.310	5.5	4SP(3G)4H	
182.2234	-3.333	54902.315	1.5	D6S (3P)2P	109780.000	1.5	280DD	183.3710	-4.306	99824.045	2.5	5S (3F)4F	45289.801	1.5	4P (5D)4F	
182.2343	-2.755	99918.569	1.5	5S (3F)4F	45044.168	1.5	4P (5D)4D	183.3813	-1.875	183.3813	-1.875					
182.2605	-4.380	49100.976	0.5	D6S (3P)4F	103967.490	0.5	4SP(3F)2S	183.4259	-3.938	183.4259	-3.938					
182.2790	-3.651	99093.452	5.5	5S (3H)2H	44232.512	4.5	4P (5D)4F	183.4716	-1.299	54273.637	2.5	D5S2(7S)4G	108780.000	1.5	270DD	
182.3418	-2.224	44915.046	3.5	D6S (1F)2F	99757.120	4.5	4P (1G)2G	183.4744	-4.546	36126.387	1.5	D6S (3D)2D	90629.902	1.5	4P (3P)4S	
182.3460	-4.510	50187.813	3.5	D6S (3F)4F	105028.600	3.5	4SP(3I)4H	183.4965	0.448	54232.195	5.5	D5S2(7S)4G	108729.160	6.5	4SP(3G)4H	
182.3530	-3.415	99918.569	1.5	5S (3F)4F	45079.879	2.5	4P (5D)4F	183.5411	-0.617	31999.048	3.5	D7 (5D)2F	86482.750	3.5	4P (1F)2F	
182.3849	-2.512	47674.721	1.5	D7 (5D)2D	102503.810	1.5	4SP(3D)2D	183.5424	-3.937	38164.194	2.5	D6S (1D)2D	92647.310	1.5	4P (3F)4D	
182.3870	-1.339	18360.646	1.5	D7 (5D)2P	73189.110	1.5	4P (3D)2P	183.5507	-3.468	38214.507	1.5	D6S (1D)2D	92695.374	2.5	4P (3F)4D	
182.4105	-1.799	21308.040	1.5	D7 (5D)2D	76129.280	0.5	4P (3D)2P	183.5875	-0.777	15844.650	4.5	D7 (5D)2G	70314.604	4.5	4P (3G)2G	
182.4161	-5.367	23317.633	2.5	D5S2(7S)6S	78137.364	3.5	4P (1D)2F	183.6051	-3.515	48039.090	2.5	D7 (5D)2D	102503.810	1.5	4SP(3D)2D	
182.4171	-3.274	99573.225	4.5	5S (3F)4F	44753.799	3.5	4P (5D)4F	183.6935	-3.368	38164.194	2.5	D6S (1D)2D	92602.703	3.5	4P (3F)2G	
182.4309	-5.390	22939.358	2.5	D6S (3F)4F	77742.730	2.5	4P (1D)2F	183.7030	-3.607	57493.321	1.5	D5S2(7S)4G	111929.000	2.5	290DD	
182.4475	-2.200	20805.770	4.5	D7 (5D)2H	75600.931	3.5	4P (3D)2F	183.7121	-4.894	38214.507	1.5	D6S (1D)2D	92647.310	1.5	4P (3F)4D	
182.5329	-1.956	8680.454	1.5	D6S (5D)4D	63465.109	1.5	4P (3F)4D	183.7388	-7.788	23317.633	2.5	D5S2(7S)6S	77742.730	2.5	4P (1D)2F	
								183.7897	-2.172	48039.090	2.5	D7 (5D)2D	102449.100	2.5	4SP(3D)2D	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
186.5554	-2.488	54283.220	3.5	D582(78)4G	107886.600	3.5	200DD	188.0026	-7.366	26055.423	2.5	D6S	79246.170	1.5	4SP(58)6P
186.5649	-3.671	13673.185	1.5	D7	67273.826	1.5	4P(3F)2D	188.0050	-5.251	22939.358	2.5	D6S	76129.446	1.5	4P(18)2P
186.6018	-4.341	44915.046	3.5	D6S	98505.100	2.5	4SP(5D)4D	188.0052	-1.130	21308.040	1.5	D7	74498.057	1.5	4P(3D)2D
186.6223	-3.502	44929.550	2.5	D6S	61974.933	1.5	4SP(7S)6P	188.0117	-4.281	26055.423	2.5	D6S	79243.600	1.5	4P(1D)2P
186.6923	-3.072	8680.454	1.5	D6S	8391.938	2.5	4SP(5D)4D	188.0972	-0.394	20805.770	4.5	D7	73969.767	5.5	4P(11)2I
186.7158	-4.759	7955.299	3.5	D6S	98505.100	2.5	4SP(5D)4D	188.1246	-3.120	18886.780	0.5	D7	72043.026	1.5	4P(3D)4P
186.7547	-4.969	23031.300	1.5	D6S	62244.520	1.5	4P(3F)4F	188.1884	-5.043	13474.411	2.5	D7	66612.656	1.5	4P(3G)4F
186.7660	-3.008	18886.780	0.5	D7	76577.482	0.5	4P(1S)2P	188.1888	-3.146	7955.299	3.5	D6S	61093.413	2.5	4P(3P)2D
186.7943	-4.911	48039.090	2.5	D7	72429.711	0.5	4P(3D)4D	188.2241	-5.176	8846.768	0.5	D6S	61974.933	1.5	4SP(7S)6P
186.8245	-5.594	25805.328	4.5	D6S	101573.800	1.5	4SP(5D)2[4]	188.3002	-3.101	30764.485	3.5	D6S	83871.184	4.5	4P(1F)2G
186.8247	-3.274	13474.411	2.5	D7	79331.500	3.5	4SP(5S)6P	188.3067	-5.841	22810.357	3.5	D6S	75915.215	2.5	4P(3D)2F
186.9045	-2.917	54870.528	2.5	D6S	67000.517	2.5	4P(3F)2D	188.3099	-3.928	30764.485	3.5	D6S	83868.450	2.5	4P(1F)2D
186.9118	-2.830	54870.528	2.5	D6S	108373.800	3.5	260DD	188.3301	-3.065	23031.300	1.5	D6S	76129.446	1.5	4P(1S)2P
186.9203	-4.856	50212.826	2.5	D6S	108371.700	1.5	250DD	188.3720	-4.214	7955.299	3.5	D6S	61041.748	2.5	4P(3H)4G
186.9246	-8.440	25787.598	1.5	D6S	103711.570	3.5	4F(5D)2[4]	188.4642	-4.264	54904.222	3.5	D6S	107964.700	4.5	210DD
186.9542	-3.917	98568.912	3.5	5S	79285.110	2.5	4SP(5S)6P	188.4859	-2.195	25787.598	1.5	D6S	78841.960	0.5	4P(1D)2P
186.9766	-1.472	30388.542	4.5	D6S	45079.879	2.5	4P(5D)4F	188.5089	-3.531	13474.411	2.5	D7	66522.304	2.5	4P(3G)4F
186.9988	-3.547	44915.046	3.5	D6S	83871.184	4.5	4P(1F)2G	188.5148	-2.318	33501.253	3.5	D6S	86547.490	2.5	4P(1F)2F
187.0169	-3.547	8680.454	1.5	D6S	98391.330	3.5	4SP(5D)4D	188.5337	-3.774	50142.786	2.5	D6S	103183.700	3.5	4SP(3D)2F
187.0229	-3.487	54902.315	1.5	D6S	88354.660	2.5	4SP(3F)4F	188.5378	-4.485	7955.299	3.5	D6S	60989.444	4.5	4P(3H)4H
187.0446	-2.908	33466.463	4.5	D6S	62151.560	1.5	4P(3F)4F	188.6213	-2.174	33466.463	4.5	D6S	86482.750	3.5	4P(1F)2F
187.0607	-8.835	25787.598	1.5	D6S	188.6740	4.5	150	188.6740	-4.150	7955.299	3.5	D6S	60956.781	3.5	4P(3H)4G
187.0697	-1.794	25787.598	1.5	D6S	86929.649	3.5	4P(3P)4D	188.6904	-4.179	49506.934	1.5	D6S	102503.810	1.5	4SP(3D)2D
187.1077	-2.802	8680.454	1.5	D6S	79243.600	1.5	4P(1D)2P	188.6939	-3.275	50187.813	3.5	D6S	103183.700	3.5	4SP(3D)2F
187.1271	-4.092	44915.046	3.5	D6S	62125.600	1.5	4P(3P)2D	188.6958	-4.329	31364.440	1.5	D6S	84359.800	1.5	4P(1F)2D
187.1664	-3.250	44915.046	3.5	D6S	98354.660	2.5	4SP(5D)4F	188.7451	-2.408	33501.253	3.5	D6S	86482.750	3.5	4P(1F)2F
187.1779	-4.793	44929.550	2.5	D6S	86929.649	3.5	4P(3P)4D	188.7550	-8.331	26352.766	4.5	D6S	79331.500	3.5	4SP(58)6P
187.2274	-2.601	20340.300	5.5	D7	86929.649	3.5	4SP(5D)4F	188.7652	-4.036	22939.358	2.5	D6S	75915.215	2.5	4P(3D)2F
187.2560	-3.146	49100.976	0.5	D6S	73751.282	4.5	4P(1I)2D	188.7730	-4.036	50212.826	2.5	D6S	84359.800	1.5	4P(1F)2D
187.2738	-3.007	8846.768	0.5	D6S	62244.520	1.5	4P(3F)4F	188.8010	-4.241	0.000	4.5	D6S	52965.820	4.5	4SP(7S)8P
187.3747	-3.568	13904.824	0.5	D7	188.8085	-3.521	188.8085	188.8085	-4.241	0.000	4.5	D6S	52965.820	4.5	4SP(7S)8P
187.3758	-4.997	54870.528	2.5	D6S	62244.520	1.5	4P(3F)4F	188.8734	0.030	22637.270	4.5	D6S	75600.931	3.5	4P(3D)2F
187.3762	-5.098	8680.454	1.5	D6S	108239.200	3.5	240DD	188.8854	-2.051	20805.770	4.5	D7	73751.282	4.5	4P(1I)2H
187.4419	-6.581	25981.629	3.5	D6S	62049.025	2.5	4SP(7S)6P	188.8901	-3.188	49506.934	1.5	D6S	102449.100	2.5	4SP(3D)2D
187.4942	-4.724	54904.222	3.5	D6S	79331.500	3.5	4SP(5S)6P	188.8950	-3.266	8391.938	1.5	D7	61332.764	1.5	4P(3G)4F
187.4992	-2.141	8391.938	2.5	D6S	108239.200	3.5	240DD	188.9063	-4.010	13673.185	1.5	D7	66612.656	1.5	4P(3G)4F
187.5211	-2.577	13673.185	1.5	D7	108239.200	3.5	4P(3P)4D	188.9625	-2.791	44915.046	3.5	D6S	97851.330	4.5	4P(1G)2H
187.5251	-2.361	18886.780	0.5	D7	67000.517	2.5	4P(3D)4P	188.9625	-2.791	54275.637	2.5	D5S2(7S)4G	107196.200	2.5	180DD
187.6050	-6.212	25981.629	3.5	D6S	72212.978	0.5	4P(3D)4P	188.9762	-3.582	30388.542	4.5	D6S	83305.251	3.5	4P(1F)2G
187.6215	-1.482	21308.040	1.5	D7	79285.110	2.5	4SP(5S)6P	188.9895	-1.503	54283.220	3.5	D5S2(7S)4G	107196.200	2.5	180DD
187.6367	-5.146	8680.454	1.5	D6S	74606.841	2.5	4P(3D)2D	189.0243	-4.378	25787.598	1.5	D6S	78690.846	2.5	4P(1D)2D
187.6799	-3.224	18886.780	0.5	D7	61974.933	1.5	4SP(7S)6P	189.0257	-2.590	13474.411	2.5	D7	66377.283	3.5	4P(3G)4F
187.6837	-0.619	16369.360	3.5	D7	72168.998	1.5	4P(3D)4P	189.0541	-5.026	21711.917	1.5	D5S2(7S)4G	74606.841	2.5	4P(3G)2D
187.6918	-3.157	8846.768	0.5	D6S	69650.484	2.5	4P(3G)2F	189.0647	-2.722	54273.641	4.5	D5S2(7S)4G	107165.600	3.5	170DD
187.7015	-8.120	26055.423	2.5	D6S	62125.600	1.5	4P(3P)2D	189.0718	-2.004	54273.641	4.5	D5S2(7S)4G	107165.600	3.5	170DD
187.7354	-3.585	44929.550	2.5	D6S	79331.500	3.5	4SP(5S)6P	189.0934	-4.672	23031.300	1.5	D6S	75915.215	2.5	4P(3D)2F
187.7359	-3.120	33501.253	3.5	D6S	86767.577	2.5	4P(3P)4D	189.0989	-0.836	54283.220	3.5	D5S2(7S)4G	107165.600	3.5	170DD
187.7469	-0.002	20340.300	5.5	D7	73603.500	5.5	4P(1I)2H	189.1179	-3.955	36126.387	1.5	D6S	66522.304	2.5	4P(3G)4F
187.7485	-4.854	54870.528	2.5	D6S	111929.900	2.5	290DD	189.2179	-2.562	13673.185	1.5	D7	66522.304	2.5	4P(3G)4F
187.7645	-3.940	50075.910	1.5	D6S	103334.100	2.5	4SP(3D)2F	189.3120	-4.673	50157.452	4.5	D6S	102980.300	5.5	4P(3F)2S
187.8386	-1.812	16369.360	3.5	D7	69606.552	3.5	4P(3G)2F	189.3516	-6.821	23317.633	2.5	D5S2(7S)6S	76129.446	1.5	4P(1S)2P
187.8651	-6.882	26055.423	2.5	D6S	79285.110	2.5	4SP(5S)6P	189.4021	-1.179	20805.770	4.5	D7	73603.500	5.5	4P(1I)2H
187.8651	-6.882	26055.423	2.5	D6S	79285.110	2.5	4SP(5S)6P	189.4126	-5.725	21812.055	1.5	D6S	74606.841	2.5	4P(3D)2D
187.8700	-2.979	54902.315	1.5	D6S	108130.600	2.5	220DD	189.4267	-3.725	22810.357	3.5	D6S	75600.931	3.5	4P(3D)2F
187.8768	-2.631	54904.222	3.5	D6S	108130.600	2.5	220DD	189.4486	-3.501	54232.195	5.5	D5S2(7S)4G	107006.350	4.5	4SP(3I)4I
187.9645	-3.554	7955.299	3.5	D6S	66672.334	3.5	4P(3G)4F	189.5199	-4.311	8391.938	2.5	D6S	61156.835	3.5	4P(3H)4H
187.9773	-6.088	13474.411	2.5	D7	103334.100	2.5	4SP(3D)2F	189.5243	-4.993	50187.813	3.5	D6S	102951.500	4.5	4SP(3I)4I
188.0006	-3.441	50142.786	2.5	D6S	103334.100	2.5	4SP(3D)2F								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
189.5688	-0.906	20340.300	5.5	D7 (5D)2H	73091.590	4.5	4P (1G)2G	191.0445	-3.112	13904.824	0.5	D7 (5D)4P
189.6345	-5.092	16369.360	3.5	D7 (5D)2G	69102.380	2.5	4SP(58)4P	191.0675	-1.048	20805.770	4.5	D7 (5D)2H
189.6356	-2.391	54273.641	4.5	D5S2(7S)4G	107006.350	4.5	4SP(31)2H	191.0875	-4.491	25805.328	4.5	D6S (3G)4G
189.6610	-2.542	47674.721	1.5	D7 (5D)2D	100400.360	2.5	4SP(3P)2H	191.1281	-5.161	21430.359	5.5	D6S (3H)4H
189.6701	-2.516	54283.220	3.5	D5S2(7S)4G	107006.350	4.5	4SP(31)2H	191.1555	-7.945	26932.748	0.5	D6S (3P)2P
189.6880	-7.915	21251.608	6.5	D6S (3H)4H	73969.767	5.5	4P (11)2I	191.1561	-3.629	20830.582	2.5	D6S (3P)4P
189.6985	-4.344	21251.608	6.5	D6S (3H)4H	73966.832	6.5	4P (11)2I	191.1649	-2.655	26932.748	0.5	D6S (3P)2P
189.7201	-4.200	25981.629	3.5	D6S (3G)4G	78690.846	2.5	4P (1D)2D	191.1667	-1.897	20340.300	5.5	D7 (5D)2H
189.7251	-3.312	13904.824	0.5	D7 (5D)4P	66612.656	1.5	4P (3G)4F	191.1815	-4.239	50142.786	2.5	D6S (3F)4F
189.7549	-2.765	8391.938	2.5	D6S (3P)2D	61093.413	2.5	4P (3F)2D	191.1995	-1.913	49100.976	0.5	D6S (3P)4F
189.7549	-2.053	25787.598	1.5	D6S (3P)2D	78487.153	1.5	4P (1D)2D	191.2226	-4.823	54904.528	2.5	D6S (3F)2F
189.8037	-3.778	21812.055	1.5	D6S (3P)4P	74498.057	1.5	4P (3D)2D	191.2339	-3.669	54904.222	3.5	D6S (3F)2F
189.8537	-1.211	20516.960	2.5	D7 (5D)2D	73189.110	1.5	4P (3D)2P	191.2376	-3.019	50212.826	2.5	D6S (3P)4P
189.8918	-5.462	22939.358	2.5	D6S (3F)4F	75600.931	3.5	4P (3D)2F	191.2533	-1.385	57493.321	1.5	D5S2(7S)4P
189.9529	-3.214	8680.454	1.5	D6S (3D)4D	61332.764	1.5	4P (3P)4P	191.2564	-2.133	20805.770	4.5	D7 (5D)2H
189.9342	-4.180	8391.938	2.5	D6S (5D)4D	61041.748	2.5	4P (3H)4G	191.3459	-4.180	54904.222	3.5	D6S (3F)2F
189.9861	-3.776	26055.423	2.5	D6S (3G)4G	78690.846	2.5	4P (1D)2D	191.3462	-4.420	50187.813	3.5	D6S (3F)4F
190.0190	-2.131	20516.960	2.5	D7 (5D)2D	73143.288	3.5	4P (1G)2G	191.4379	-1.842	50212.826	2.5	D6S (3P)4P
190.0239	-4.749	38214.507	1.5	D6S (1D)2D	90839.480	0.5	4P (3P)4P	191.4817	-4.365	20830.582	2.5	D6S (3P)4P
190.1001	-5.639	13474.411	2.5	D7 (5D)4P	66078.269	2.5	4P (3G)4G	191.5328	-1.280	20805.770	4.5	D7 (5D)2H
190.1228	-7.952	23317.633	2.5	D5S2(7S)6S	75915.215	2.5	4P (3D)2F	191.5653	-1.571	57578.484	0.5	D5S2(7S)4P
190.1518	-2.647	54273.641	4.5	D5S2(7S)4G	106863.200	3.5	160DD	191.5792	-3.996	384.790	3.5	D6S (5D)6D
190.1590	-2.200	54275.637	2.5	D5S2(7S)4G	106863.200	3.5	160DD	191.6130	-4.652	8846.768	0.5	D6S (5D)4D
190.1773	-3.184	0.000	4.5	D6S (5D)6D	52965.820	4.5	4SP(7S)8P	191.6239	-3.489	20830.582	2.5	D6S (3P)4P
190.1827	-4.874	384.790	3.5	D5S2(7S)4G	106863.200	3.5	160DD	191.6695	-3.426	21430.359	5.5	D6S (3H)4H
190.1865	-0.983	54283.220	3.5	D5S2(7S)4G	106863.200	3.5	160DD	191.6824	-3.236	21581.638	4.5	D6S (3H)4H
190.2028	-2.166	13673.185	1.5	D7 (5D)4P	66248.660	0.5	4P (3P)2S	191.7320	-1.356	15844.650	4.5	D7 (5D)2D
190.2412	-3.461	8391.938	2.5	D6S (5D)4D	60956.781	3.5	4P (3H)4G	191.7335	-3.276	25981.629	3.5	D6S (3G)4G
190.3023	-1.990	31811.822	2.5	D7 (5D)2F	84359.800	1.5	4P (1F)2D	191.8100	-0.935	20516.960	2.5	D7 (5D)2D
190.3284	-1.508	30764.485	3.5	D6S (3H)4H	83305.251	3.5	4P (1F)2G	191.9293	-3.390	54904.222	3.5	D6S (3F)2F
190.3333	-4.137	21430.359	5.5	D6S (3H)4H	73969.767	5.5	4P (11)2I	191.9307	-2.896	22409.852	0.5	D6S (3P)4P
190.3440	-4.183	21430.359	5.5	D6S (3H)4H	73966.832	6.5	4P (11)2I	192.0051	-4.159	49506.934	1.5	D6S (3G)4G
190.3387	-2.156	20516.960	2.5	D7 (5D)2D	73034.881	2.5	4P (1G)2F	191.9820	-6.843	24905.423	2.5	D6S (3P)4P
190.4616	-4.971	31364.440	1.5	D6S (3D)4D	83868.450	2.5	4P (1F)2D	192.0604	-1.938	48506.934	1.5	D6S (3G)4G
190.4791	-0.973	20516.960	2.5	D7 (5D)2D	73016.147	3.5	4P (1G)2F	192.0985	-2.426	31811.822	2.5	D7 (5D)2F
190.5270	-3.258	8846.768	0.5	D6S (5D)4D	61332.764	1.5	4P (3P)4P	192.1622	-3.679	21711.917	3.5	D6S (3H)4H
190.5470	-4.432	31387.948	2.5	D6S (3D)4D	83868.450	2.5	4P (1F)2D	192.2269	-5.303	21581.638	4.5	D6S (3H)4H
190.5745	-1.289	49100.976	0.5	D6S (3P)4P	101573.900	1.5	4SP(5D)4P	192.2692	-2.786	8391.938	2.5	D6S (5D)4D
190.6007	-3.853	38164.194	2.5	D6S (1D)2D	90629.902	1.5	4P (3P)4S	192.2692	-2.786	8391.938	2.5	D6S (5D)4D
190.6288	-1.691	54232.195	5.5	D5S2(7S)4G	106690.170	5.5	4SP(31)2H	192.2796	-2.217	20516.960	2.5	D7 (5D)2D
190.6326	-3.841	13474.411	2.5	D7 (5D)4P	65931.334	3.5	4P (3G)4G	192.4180	-6.577	27314.922	3.5	D6S (3F)2F
190.6685	-3.131	7995.299	3.5	D6S (5D)4D	60402.342	2.5	4P (3P)4P	192.4595	-4.021	54904.222	3.5	D6S (3F)2F
190.7242	-4.059	26055.423	2.5	D6S (3G)4G	78487.153	1.5	4P (1D)2D	192.4738	-3.915	20340.300	5.5	D7 (5D)2H
190.7381	-3.581	50075.910	1.5	D6S (3F)4F	102503.810	1.5	4SP(3D)2D	192.5987	-0.783	31387.948	2.5	D6S (3D)4D
190.7795	-2.356	54273.641	4.5	D5S2(7S)4G	106690.170	5.5	4SP(31)2H	192.6140	-4.936	49506.934	1.5	D6S (3P)4P
190.7836	-4.614	38214.507	1.5	D6S (1D)2D	90629.902	1.5	4P (3P)4S	192.6232	-5.071	667.683	2.5	D6S (5D)6D
190.7925	-3.087	8680.454	1.5	D6S (5D)4P	61093.413	2.5	4P (3P)2D	192.6240	-3.623	384.790	3.5	D6S (5D)6D
190.8212	-4.169	13673.185	1.5	D7 (5D)4P	66078.269	2.5	4P (3G)4G	192.6440	-1.762	26932.748	0.5	D6S (3P)2P
190.8829	-3.854	21581.638	4.5	D6S (3H)4H	73969.767	5.5	4P (11)2I	192.6951	-1.243	49506.934	1.5	D6S (3P)4P
190.8834	-4.030	31483.176	3.5	D6S (3D)4D	83871.184	4.5	4P (1F)2G	192.7485	-1.849	21308.040	1.5	D7 (5D)2D
190.8933	-3.651	31483.176	3.5	D6S (3D)4D	83868.450	2.5	4P (1F)2D	192.7553	-2.324	21308.040	1.5	D7 (5D)2D
190.9529	-1.510	57411.065	2.5	D5S2(7S)4P	109780.000	1.5	280DD	192.7817	-2.768	31999.048	3.5	D7 (5D)2F
190.9808	-3.363	8680.454	1.5	D6S (5D)4D	61041.748	2.5	4P (3H)4G	192.7919	-2.019	31999.048	3.5	D7 (5D)2F
190.9809	-2.154	48039.090	2.5	D7 (5D)2D	100400.360	2.5	4SP(3P)2D	192.8785	-2.249	20805.770	4.5	D7 (5D)2H
190.9818	-4.142	50142.786	2.5	D6S (3F)4F	102503.810	1.5	4SP(3D)2D	192.8830	-2.822	20805.770	4.5	D7 (5D)2H
190.9909	-3.221	20830.582	2.5	D6S (3P)4P	73189.110	1.5	4P (3D)2P	192.9196	-1.637	20516.960	2.5	D7 (5D)2D
191.0043	-3.808	8680.454	1.5	D6S (5D)4D	61035.287	0.5	4P (3P)4P	192.9709	-2.559	20830.582	2.5	D6S (3P)4P
191.0151	-3.626	21251.608	6.5	D6S (3H)4H	73603.500	5.5	4P (11)2H	193.0633	-3.813	22810.357	3.5	D6S (3F)4F

WL(NM)	LOGGFF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGFF	EVEN E	J	LABEL
193.0871	-2.216	20340.300	5.5	D7 (5D)2H	72130.390	4.5	4P (1G)2H	194.7859	-3.372	20830.582	2.5	D6S (3P)4P
193.0915	-3.334	20830.582	2.5	D6S (3P)4P	72619.490	2.5	4P (3D)4D	194.8081	-7.449	22637.205	4.5	D6S (3F)4F
193.1076	-4.400	26352.766	4.5	D6S (3H)2H	78137.364	3.5	4P (1D)2F	194.8383	-1.575	20805.770	4.5	D7 (5D)2H
193.1392	-4.397	37227.326	0.5	D6S (1S)2S	89003.460	0.5	4P (3P)2S	194.8883	-2.328	21308.040	1.5	D7 (5D)2D
193.1646	-1.427	48039.090	2.5	D7 (5D)2D	99808.400	3.5	4P (1G)2G	194.9157	-4.228	21711.917	3.5	D6S (3H)4H
193.1953	-3.582	25981.629	3.5	D6S (3G)4G	77742.730	2.5	4P (1D)2F	194.9228	-4.410	44915.046	3.5	D6S (1F)2F
193.2485	-0.911	21308.040	1.5	D7 (5D)2D	73054.881	2.5	4P (1G)2F	194.9704	-2.072	18360.646	1.5	D7 (5D)2P
193.3257	-4.116	38164.194	2.5	D6S (1D)2D	89890.373	3.5	4P (3F)4G	194.9728	-6.960	23317.633	2.5	D5S2(7S)6S
193.3417	-2.998	8680.454	1.5	D6S (5D)4D	60402.342	2.5	4P (3P)4P	194.9824	-1.828	57493.321	1.5	D5S2(7S)4P
193.3430	-2.775	20516.960	2.5	D7 (5D)2D	72238.513	2.5	4P (3D)4F	195.0401	-3.863	8591.938	2.5	D6S (5D)4D
193.3821	-8.654	27620.412	2.5	D6S (3F)2F	79331.500	3.5	4SP(5S)6P	195.1493	-4.071	21812.055	1.5	D6S (3P)4P
193.4461	-2.693	20830.582	2.5	D6S (3F)4P	72524.566	1.5	4P (3D)4D	195.2351	-2.725	21430.359	5.5	D6S (3H)4H
193.4711	-3.085	26055.423	2.5	D6S (3G)4G	77742.730	2.5	4P (1D)2F	195.2361	-4.412	57411.065	2.5	D5S2(7S)4P
193.5296	-1.074	15844.660	4.5	D7 (5D)2G	67516.332	5.5	4P (3G)2H	195.2432	-4.813	57411.065	2.5	D5S2(7S)4P
193.5453	-4.158	22939.358	2.5	D6S (3F)4F	74606.841	2.5	4P (3G)2D	195.2495	-3.024	21308.040	1.5	D7 (5D)2D
193.5558	-6.759	27620.412	2.5	D6S (3F)2F	79285.110	2.5	4SP(5S)6P	195.2650	-2.334	20830.582	2.5	D6S (3P)4P
193.5684	-4.804	21430.359	5.5	D6S (3H)4H	73091.590	4.5	4P (1G)2G	195.3067	-2.970	57578.484	0.5	D5S2(7S)4P
193.5788	-3.597	60270.339	3.5	D5S2(7S)4D	111929.000	2.5	290DD	195.3872	-7.777	23317.633	2.5	D5S2(7S)6S
193.6032	-3.036	20516.960	2.5	D7 (5D)2D	72168.998	1.5	4P (3D)4F	195.4618	-2.695	13673.185	1.5	D7 (5D)4P
193.6661	-3.644	13474.411	2.5	D7 (5D)4P	65109.679	3.5	4P (3F)2G	195.5572	-2.645	57493.321	1.5	D5S2(7S)4P
193.6794	-3.868	667.683	2.5	D6S (5D)6D	52299.390	2.5	4SP(7S)8P	195.5641	-1.580	20830.582	2.5	D6S (3P)4P
193.6805	-1.309	16369.360	3.5	D7 (5D)2G	68000.788	4.5	4P (3G)2H	195.5673	-4.891	13673.185	1.5	D7 (5D)4P
193.7018	-7.887	27620.412	2.5	D6S (3F)2F	79246.170	1.5	4SP(5S)6P	195.6118	-2.601	21308.040	1.5	D7 (5D)2D
193.7114	-2.295	27620.412	2.5	D6S (3F)2F	79243.600	1.5	4P (1D)2P	195.6408	-3.883	22637.205	4.5	D6S (3F)4F
193.8119	-1.097	48039.090	2.5	D7 (5D)2D	99635.520	3.5	4SP(3G)2G	195.7123	-4.186	47674.721	1.5	D7 (5D)2D
193.8904	-4.533	23031.300	1.5	D6S (3F)4F	74606.841	2.5	4P (3D)2D	195.7260	-8.808	1872.567	4.5	D7 (5D)4F
193.9426	-3.770	38164.194	2.5	D6S (3H)4H	89727.342	2.5	4P (3F)4G	195.7606	-3.379	44915.046	3.5	D6S (1F)2F
193.9698	-2.731	26932.748	0.5	D6S (3F)2P	78487.153	1.5	4P (1G)2G	195.8080	-2.361	27620.412	2.5	D6S (3P)4P
194.0005	-2.616	20805.770	4.5	D7 (5D)2H	72352.024	3.5	4P (3D)4F	195.8134	-4.783	18360.646	1.5	D7 (5D)2P
194.0939	-3.223	20830.582	2.5	D6S (3P)4P	72352.024	3.5	4P (3D)4F	196.0395	-3.171	21251.608	6.5	D6S (3H)4H
194.1262	-3.939	38214.507	1.5	D6S (1D)2D	89727.342	2.5	4P (3F)4G	196.1438	-4.751	8680.454	1.5	D6S (5D)4D
194.1374	-8.129	21581.638	4.5	D6S (3H)4H	89727.342	2.5	4P (1G)2G	196.2081	-7.248	22637.205	4.5	D6S (3F)4F
194.1823	-4.973	50075.910	1.5	D6S (3F)4F	73091.590	4.5	4P (1G)2G	196.2218	-4.645	57411.065	2.5	D5S2(7S)4P
194.1914	-4.101	57411.065	2.5	D5S2(7S)4P	101573.900	1.5	4SP(5D)4P	196.2274	-3.515	32909.905	5.5	D6S (11)21
194.1995	-2.340	31811.822	2.5	D7 (5D)2F	108906.640	3.5	4SP(3G)4H	196.2299	-2.437	57411.065	2.5	D5S2(7S)4P
194.2201	-1.928	60441.033	1.5	D5S2(7S)4D	83305.251	3.5	4P (1F)2G	196.2670	-2.954	13474.411	2.5	D7 (5D)4P
194.2361	-2.378	60445.275	2.5	D5S2(7S)4D	111929.000	2.5	290DD	196.3038	-5.014	18360.646	1.5	D7 (5D)2P
194.3002	-3.765	23031.300	1.5	D6S (3F)4F	74498.057	1.5	4P (3D)2D	196.3058	-5.312	22810.357	3.5	D6S (3F)4F
194.3410	-4.871	20805.770	4.5	D7 (5D)2H	72261.729	5.5	4P (1G)2H	196.3095	-4.735	21711.917	3.5	D6S (3H)4H
194.3720	-3.422	20516.960	2.5	D7 (5D)2D	71964.710	2.5	4P (3D)4P	196.3142	-5.310	21711.917	3.5	D6S (3H)4H
194.3940	-3.134	44915.046	3.5	D6S (1F)2F	96356.960	3.5	4SP(3G)2F	196.3461	-3.676	21308.040	1.5	D7 (5D)2D
194.4134	-4.430	862.613	1.5	D6S (5D)6D	52299.390	2.5	4SP(7S)8P	196.3508	-3.933	13904.824	0.5	D7 (5D)4P
194.4220	-3.344	21581.638	4.5	D6S (3H)4H	73016.147	3.5	4P (1G)2F	196.3537	-3.641	44929.550	2.5	D6S (1F)2F
194.4339	-4.938	44929.550	2.5	D6S (1F)2F	96356.960	3.5	4SP(3G)2F	196.4344	-3.357	21711.917	3.5	D6S (3H)4H
194.4488	-3.976	21711.917	3.5	D6S (3F)4P	72238.513	2.5	4P (1G)2G	196.4446	-2.794	21308.040	1.5	D7 (5D)2D
194.5225	-4.575	20830.582	2.5	D6S (3P)4P	72238.513	2.5	4P (3D)4F	196.5471	-2.485	57493.321	1.5	D5S2(7S)4P
194.6295	-6.010	21711.917	3.5	D6S (3H)4H	73091.590	4.5	4P (1G)2G	196.5921	-2.097	27620.412	2.5	D6S (3F)2F
194.6394	-3.151	21812.055	1.5	D6S (3P)4P	73189.110	1.5	4P (3D)2P	196.6145	-2.609	21308.040	1.5	D7 (5D)2D
194.6437	-1.890	27316.922	3.5	D6S (3F)2F	78690.846	2.5	4P (1D)2D	196.6196	-0.579	48039.090	2.5	D7 (5D)2D
194.6463	-3.768	21812.055	1.5	D6S (3P)4P	73187.289	0.5	4P (3D)2P	196.6196	-0.579	48039.090	2.5	D7 (5D)2D
194.6702	-2.006	57411.065	2.5	D5S2(7S)4P	108780.000	1.5	270DD	196.7327	-4.413	47674.721	1.5	D7 (5D)2D
194.7000	-1.148	50212.826	2.5	D6S (3P)4P	101573.900	1.5	4SP(5D)4P	196.7414	-3.034	57411.065	2.5	D5S2(7S)4P
194.7053	-3.248	13474.411	2.5	D7 (5D)4P	64834.073	1.5	4P (3P)2P	196.7432	-4.012	15844.650	4.5	D7 (5D)2G
194.7422	-2.567	44929.550	2.5	D6S (1F)2F	96279.490	2.5	4SP(3G)2F	196.7635	-2.196	27314.922	3.5	D6S (3F)2F
194.7687	-3.739	21711.917	3.5	D6S (3H)4H	73054.881	2.5	4P (1G)2F	196.7657	-4.491	8846.768	0.5	D6S (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
196.8042	-1.843	13474.411	2.5	D7 (5D)4P	198.3086	-3.772	21812.055	1.5	D6S (3P)4P
196.8216	-2.181	21812.055	1.5	D6S (3P)4P	198.3297	-2.423	36126.387	1.5	D6S (3D)2D
196.8685	-0.226	103094.730	3.5	4S5S(7S)8S	198.3400	-3.697	21711.917	3.5	D6S (3H)4D
196.8767	-2.552	57578.484	0.5	D5S2(7S)4P	198.3435	-3.544	36126.387	1.5	D6S (3D)2D
196.8896	-1.853	25787.598	1.5	D6S (3P)2P	198.3524	-5.264	18886.780	0.5	D7 (5D)2P
196.8932	-4.181	38214.507	1.5	D6S (1D)2D	198.3567	-2.883	13673.185	1.5	D7 (5D)4P
196.9258	-1.243	57411.065	2.5	D5S2(7S)4P	198.3941	-2.180	33466.463	4.5	D6S (1G)2G
196.9308	-4.007	22409.852	0.5	D6S (3P)4P	198.4091	-2.320	21812.055	1.5	D6S (3P)2P
196.9379	-3.932	22409.852	0.5	D6S (3P)4P	198.4956	-1.288	22637.205	4.5	D6S (3F)4F
196.9652	-2.861	21581.638	4.5	D6S (3H)4H	198.5311	-3.750	33501.253	3.5	D6S (1G)2G
197.0251	-4.947	54273.641	4.5	D5S2(7S)4G	198.5419	-3.775	33501.253	3.5	D6S (1G)2G
197.0251	-4.947	54273.641	4.5	D5S2(7S)4G	198.5823	-3.340	21812.055	1.5	D6S (3P)4P
197.0357	-2.556	13673.185	1.5	D7 (5D)4P	198.6009	-4.264	48039.090	2.5	D7 (3P)2D
197.0623	-2.042	54283.220	3.5	D5S2(7S)4G	198.6419	-1.116	25787.598	1.5	D6S (3P)2P
197.0662	-2.206	15844.650	4.5	D7 (5D)2G	198.6771	-2.610	22810.357	3.5	D6S (3F)4F
197.0764	-4.450	18360.646	1.5	D7 (5D)2P	198.7106	-3.585	50075.910	1.5	D6S (3F)4F
197.1026	-3.369	21308.040	1.5	D7 (5D)2D	198.7456	-3.372	48039.090	2.5	D7 (5D)2D
197.1627	-2.263	57411.065	2.5	D5S2(7S)4P	198.7954	-3.294	16369.360	3.5	D7 (5D)2G
197.1900	-4.169	21812.055	1.5	D6S (3P)4P	198.8104	-4.240	48039.090	2.5	D7 (5D)2D
197.2000	-6.429	1872.567	4.5	D7 (5D)4F	198.8245	-3.707	36252.918	2.5	D6S (3D)2D
197.2169	-4.720	54232.195	5.5	D5S2(7S)4G	198.8814	-2.945	22810.357	3.5	D6S (3F)4F
197.2385	-3.814	21430.359	5.5	D6S (3H)4H	198.9557	-4.133	36126.387	1.5	D6S (3D)2D
197.2454	-1.143	57493.321	1.5	D5S2(7S)4P	198.9750	-3.156	50142.786	2.5	D6S (3H)4H
197.3161	-3.564	21581.638	4.5	D6S (3H)4H	198.9939	-4.632	21711.917	3.5	D6S (3F)4F
197.3167	-4.028	47674.721	1.5	D7 (5D)2D	199.0060	-2.131	22939.358	2.5	D6S (3F)4F
197.3292	-3.064	36252.918	2.5	D6S (3D)2D	199.0267	-2.637	22810.357	3.5	D6S (3F)4F
197.3782	-1.953	54273.641	4.5	D5S2(7S)4G	199.0804	-2.393	199.0804	-2.393	
197.4074	-3.616	21308.040	1.5	D7 (5D)2D	199.1253	-2.110	199.1253	-2.110	
197.4155	-0.649	54283.220	3.5	D5S2(7S)4G	199.1534	-3.020	199.1534	-3.020	
197.4475	-2.172	20340.300	5.5	D7 (5D)2H	199.1876	-3.316	199.1876	-3.316	
197.4677	-3.167	36126.387	1.5	D6S (3D)2D	199.1924	-3.753	199.1924	-3.753	
197.4719	-5.591	21711.917	3.5	D6S (3H)4H	199.2527	-3.176	199.2527	-3.176	
197.4830	-4.763	57493.321	1.5	D5S2(7S)4P	199.2783	-3.628	199.2783	-3.628	
197.5068	-4.386	16369.360	3.5	D7 (5D)2G	199.2914	-3.639	199.2914	-3.639	
197.5548	-1.482	15844.650	4.5	D7 (5D)2G	199.3299	-2.408	199.3299	-2.408	
197.5592	-2.477	21812.055	1.5	D6S (3P)4P	199.3438	-2.677	199.3438	-2.677	
197.5772	-1.105	57578.484	0.5	D5S2(7S)4P	199.3697	-4.047	199.3697	-4.047	
197.5777	-3.233	13474.411	2.5	D7 (5D)4P	199.3707	-2.811	199.3707	-2.811	
197.6886	-2.174	54232.195	5.5	D5S2(7S)4G	199.3743	-4.586	199.3743	-4.586	
197.7595	-2.401	13474.411	2.5	D7 (5D)4P	199.3780	-2.236	199.3780	-2.236	
197.8288	-4.742	21581.638	4.5	D6S (3H)4H	199.3901	-3.506	199.3901	-3.506	
197.8507	-0.589	54273.641	4.5	D5S2(7S)4G	199.3912	-2.099	199.3912	-2.099	
197.8623	-5.446	18886.780	0.5	D7 (5D)2P	199.3922	-7.525	199.3922	-7.525	
197.8798	-9.932	2430.097	3.5	D7 (5D)4F	199.4014	-3.355	199.4014	-3.355	
197.8919	-2.853	15844.650	4.5	D7 (5D)2G	199.4772	-3.874	199.4772	-3.874	
197.9156	-2.970	21711.917	3.5	D6S (3H)4H	199.4857	-0.010	199.4857	-0.010	
197.9364	-3.266	47674.721	1.5	D7 (5D)2D	199.4908	-3.671	199.4908	-3.671	
197.9534	-3.207	27620.412	2.5	D6S (3F)2F	199.5119	-2.256	199.5119	-2.256	
197.9623	-3.293	36252.918	2.5	D6S (3D)2D	199.5349	-4.712	199.5349	-4.712	
197.9719	-0.104	103094.730	3.5	4S5S(7S)8S	199.5390	-2.935	199.5390	-2.935	
197.9960	-1.860	22637.205	4.5	D6S (3F)4F	199.5422	-2.090	199.5422	-2.090	
198.0325	-3.175	48039.090	2.5	D7 (5D)2D	199.5624	-3.032	199.5624	-3.032	
198.1158	-2.651	57411.065	2.5	D5S2(7S)4P	199.5659	-2.650	199.5659	-2.650	
198.1532	-4.297	48039.090	2.5	D7 (5D)2D	199.6933	-3.253	199.6933	-3.253	
198.1988	-2.384	22637.205	4.5	D6S (3F)4F	199.7043	-7.335	199.7043	-7.335	
198.3033	-1.882	27314.922	3.5	D6S (3F)2F	199.8658	-4.334	199.8658	-4.334	
198.3062	-0.536	54232.195	5.5	D5S2(7S)4G					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
199.9057	-3.103	23031.300	1.5	D6S (3F)4F	73054.881	2.5	4P (1G)2F	201.3662	-1.567	26932.748	0.5	D6S (3P)2P
199.9206	-4.464	22409.852	0.5	D6S (3P)4F	72429.711	0.5	4P (3D)4D	201.3716	-6.520	16369.360	3.5	D7 (5D)2G
199.9370	-4.649	58631.531	4.5	D6S (1G)2G	108631.090	3.5	4SP(3G)4G	201.4131	-2.407	22409.852	0.5	D6S (3P)4F
199.9413	-1.217	22637.205	4.5	D6S (3F)4F	72651.876	3.5	4P (3D)4F	201.4482	-3.184	22637.205	4.5	D6S (3F)4F
199.9462	-1.351	22637.205	4.5	D6S (3F)4F	72650.658	4.5	4P (3D)4F	201.4642	-3.274	50187.813	3.5	D6S (3F)4F
199.9683	-2.924	16369.360	3.5	D7 (5D)2G	66377.283	3.5	4P (3G)4F	201.4694	-3.524	25981.629	3.5	D6S (3G)4G
199.9724	-2.445	13474.411	2.5	D7 (5D)4F	63465.109	1.5	4P (3F)4D	201.5167	-3.950	58631.531	4.5	D6S (1G)2G
200.0380	-0.161	20340.300	5.5	D7 (5D)2D	70523.766	3.5	4P (3G)2G	201.5487	-0.994	13673.185	1.5	D7 (5D)4F
200.0760	-4.177	58666.258	3.5	D6S (1G)2G	70314.604	4.5	4P (3G)2G	201.5492	-4.508	50157.452	4.5	D6S (3F)4F
200.0833	-4.184	58666.258	3.5	D6S (1G)2G	108631.090	3.5	4SP(3G)4G	201.5958	-1.376	23031.300	1.5	D6S (3F)4F
200.1179	-4.156	58631.531	4.5	D6S (1G)2G	108629.250	2.5	4SP(3G)4G	201.6080	-1.337	22939.358	2.5	D6S (3F)4F
200.2012	-5.238	25981.629	3.5	D6S (3G)4G	75915.215	2.5	4P (3D)2F	201.6579	-4.389	58666.258	3.5	D6S (1G)2G
200.3089	-3.669	49100.976	0.5	D6S (3P)4F	99007.700	0.5	4SP(5D)4D	201.6726	-2.276	50187.813	3.5	D6S (3F)4F
200.3198	-1.332	54063.459	0.5	D6S (3P)2P	108570.560	4.5	4P (3G)4G	201.7025	-2.407	16369.360	3.5	D7 (5D)2G
200.3910	-2.159	13673.185	1.5	D7 (5D)4F	108570.560	4.5	4SP(3G)4G	201.7094	-1.365	13904.824	0.5	D7 (5D)4F
200.4505	-7.219	23317.633	2.5	D5S2(7S)6S	103967.490	0.5	4P (3F)4D	201.7255	-4.449	21430.359	5.5	D6S (3H)4H
200.4593	-7.200	2430.097	3.5	D7 (5D)4F	63559.488	0.5	4P (3F)4D	201.7695	-4.608	26055.423	2.5	D6S (3G)4G
200.4975	-3.651	26055.423	2.5	D6S (3G)4G	73189.110	1.5	4P (3D)2F	201.7852	-1.408	22810.357	3.5	D6S (3F)4F
200.5275	-2.810	58631.531	4.5	D6S (1G)2G	52299.390	2.5	4SP(7S)8P	201.8778	-0.909	15844.650	4.5	D7 (5D)2G
200.5313	-3.237	15844.650	4.5	D7 (5D)2G	75915.215	2.5	4P (3D)2F	201.9190	-4.384	20805.770	4.5	D7 (5D)2H
200.5710	-3.405	22810.357	3.5	D6S (3F)4F	108483.870	5.5	4SP(3G)4G	201.9519	-4.384	49506.934	1.5	D6S (3P)4F
200.5759	-2.298	22810.357	3.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G	201.9723	-3.262	50157.452	4.5	D6S (3F)4F
200.5820	-3.564	33466.463	4.5	D6S (1G)2G	72651.876	3.5	4P (3D)4D	201.9825	-2.094	23031.300	1.5	D6S (3F)4F
200.6349	-5.303	23317.633	2.5	D5S2(7S)6S	72650.658	4.5	4P (3D)4F	201.9829	-6.586	22637.205	4.5	D6S (3F)4F
200.7015	-1.051	22810.357	3.5	D6S (3F)4F	73143.288	3.5	4P (1G)2G	201.9847	-4.433	50142.786	2.5	D6S (3F)4F
200.7222	-2.156	33501.253	3.5	D6S (1G)2G	83305.250	1.5	4P (3D)4D	202.0049	-4.213	13474.411	2.5	D7 (5D)4F
200.7257	-2.552	22409.852	0.5	D6S (3P)4F	72619.490	2.5	4P (3D)4D	202.0750	-0.801	13474.411	2.5	D7 (5D)4F
200.7441	-1.475	13474.411	2.5	D7 (5D)4F	83305.250	1.5	4P (1F)2G	202.0963	-2.887	50187.813	3.5	D6S (3F)4F
200.7560	-5.241	25805.328	4.5	D6S (3G)4G	72212.978	0.5	4P (3D)4F	202.1007	-3.758	58666.258	3.5	D6S (1G)2G
200.7708	-1.323	13673.185	1.5	D7 (5D)4F	63272.976	2.5	4P (3D)2F	202.1125	-7.962	2837.950	2.5	D7 (5D)4F
200.7963	-2.623	44915.046	3.5	D6S (1F)2F	94700.660	2.5	4P (3F)4D	202.1506	-2.425	57411.065	2.5	D5S2(7S)4P
200.8548	-2.781	44929.550	2.5	D6S (1F)2F	107196.200	2.5	180DD	202.1687	-3.520	50187.813	3.5	D6S (3F)4F
200.8591	-4.349	44915.046	3.5	D6S (1F)2F	94685.090	2.5	4P (3F)2D	202.3120	-2.176	22939.358	2.5	D6S (3F)4F
200.9031	-3.635	22409.852	0.5	D6S (3P)4F	72168.998	1.5	4P (3D)4F	202.3204	-2.470	22810.357	3.5	D6S (3F)4F
200.9177	-4.527	44929.550	2.5	D6S (1F)2F	94685.090	2.5	4P (3F)4D	202.3704	-1.581	23031.300	1.5	D6S (3F)4F
200.9217	-1.144	57411.065	2.5	D5S2(7S)4P	107165.600	3.5	170DD	202.6143	-1.856	60441.033	1.5	D5S2(7S)4D
200.9620	-8.927	2837.950	2.5	D7 (5D)4F	52582.510	3.5	4SP(7S)8P	202.6317	-1.784	60445.275	2.5	D5S2(7S)4D
200.9713	-4.865	58631.531	4.5	D6S (1G)2G	108373.800	3.5	260DD	202.6337	-5.303	23317.633	2.5	D5S2(7S)6S
200.9916	-6.427	23317.633	2.5	D5S2(7S)6S	73054.881	2.5	4P (1G)2F	202.6381	-3.731	58631.531	4.5	D6S (1G)2G
200.9991	-1.016	15844.650	4.5	D7 (5D)2G	65580.041	5.5	4P (3G)4G	202.6648	-2.470	16369.360	3.5	D7 (5D)2G
201.0004	-6.538	21251.608	6.5	D6S (3H)4H	70986.677	6.5	4P (1G)2K	202.6693	-3.885	87985.628	2.5	4D (5D)4P
201.0697	-0.332	20805.770	4.5	D7 (5D)2H	70986.677	6.5	4P (1I)2K	202.6921	-3.976	22810.357	3.5	D6S (3F)4F
201.0823	-3.213	22637.205	4.5	D6S (3F)4F	72532.024	3.5	4P (3G)2G	202.7668	-5.965	23317.633	2.5	D5S2(7S)6S
201.0916	-2.846	15844.650	4.5	D7 (5D)2G	72651.876	3.5	4P (3D)4F	202.7779	-1.486	22939.358	2.5	D6S (3F)4F
201.0952	-1.636	15844.650	4.5	D7 (5D)2G	65556.280	4.5	4P (3D)4D	202.7809	-3.362	58666.258	3.5	D6S (1G)2G
201.1062	-2.323	16369.360	3.5	D7 (5D)2G	66078.269	2.5	4P (3G)4G	202.8196	-2.773	8157.116	1.5	4D (5D)4P
201.1117	-3.948	58666.258	3.5	D6S (1G)2G	108373.800	3.5	260DD	202.8272	-3.202	48039.090	2.5	D7 (5D)2D
201.1306	-1.378	57493.321	1.5	D5S2(7S)4P	107196.200	2.5	180DD	202.9184	-1.638	15844.650	4.5	D7 (5D)2G
201.1483	-4.694	23317.633	2.5	D5S2(7S)6S	73016.147	3.5	4P (1G)2F	202.9259	-3.083	49506.934	1.5	D6S (3P)4F
201.1701	-3.737	20830.582	2.5	D6S (3P)4F	70523.766	3.5	4P (3G)2G	202.9879	-3.895	26352.766	4.5	D6S (3P)4F
201.2227	-1.982	22939.358	2.5	D6S (3F)4F	72619.490	2.5	4P (3D)4D	202.9595	-4.219	58631.531	4.5	D6S (1G)2G
201.2671	-2.485	49100.976	0.5	D6S (3P)4F	98770.140	1.5	4SP(5D)4D	203.0327	-1.544	49100.976	0.5	D6S (3P)4F
201.2815	-3.445	50142.786	2.5	D6S (3F)4F	99808.400	3.5	4P (1G)2G	203.0643	-3.324	22939.358	2.5	D6S (3F)4F
201.3259	-1.412	13904.824	0.5	D7 (5D)4F	63559.488	0.5	4P (3F)4D	203.1027	-3.884	58666.258	3.5	D6S (1G)2G
201.3385	-3.748	47674.721	1.5	D7 (5D)2D	97326.270	1.5	4SP(3P)2P	203.1228	-3.835	13474.411	2.5	D7 (5D)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
203.1569	-2.169	23031.300	1.5	D6S (3F)4F	205.0993	-4.196	50157.452	4.5	D6S (3F)4F	98898.710	3.5	4P (1G)2F
203.1580	-5.935	23317.633	2.5	D5S2(7S)6S	205.1032	-0.690	16369.360	3.5	D7 (5D)2G	65109.679	3.5	4P (3F)2G
203.2003	-1.518	26932.748	0.5	D6S (3F)2P	205.1342	-6.756	21581.638	4.5	D6S (3H)4H	70314.604	4.5	4P (3G)2G
203.2407	-0.724	16369.360	3.5	D7 (5D)2G	205.1661	-4.878	23317.633	2.5	D5S2(7S)6S	72043.026	1.5	4P (3D)4P
203.2613	-9.276	3117.461	1.5	D7 (5D)4F	205.2271	-2.346	50187.813	1.5	D6S (3F)4F	98898.710	3.5	4P (1G)2F
203.2624	-1.921	23031.300	1.5	D6S (3F)4F	205.2450	-2.785	54273.641	4.5	D5S2(7S)4G	102980.300	5.5	4SP(3I)4I
203.2866	-3.134	88189.030	0.5	4D (5D)4F	205.2848	-4.211	13474.411	2.5	D7 (5D)4F	62171.615	1.5	4SP(7S)6P
203.3458	-4.642	37227.326	0.5	D6S (1S)2S	205.2974	-2.517	50075.910	1.5	D6S (3F)4F	98770.140	1.5	4SP(5D)4D
203.3595	-4.061	44915.046	3.5	D6S (1F)2F	205.3192	-3.919	49506.934	1.5	D6S (3P)4P	98196.000	1.5	4SP(5D)4F
203.3690	-3.412	13673.185	1.5	D7 (5D)4F	205.3326	-4.510	50212.826	2.5	D6S (3P)4P	98898.710	3.5	4P (1G)2F
203.3754	-2.094	22810.357	3.5	D6S (3F)4F	205.3694	-2.803	13474.411	2.5	D7 (5D)4P	62151.561	1.5	4P (3F)4F
203.4186	-3.278	88157.116	1.5	4D (5D)4F	205.4069	-3.115	54283.220	3.5	D5S2(7S)4G	102951.500	4.5	4SP(3I)4I
203.4443	-1.501	23031.300	1.5	D6S (3F)4F	205.4790	-5.063	13474.411	2.5	D7 (5D)4F	62125.600	1.5	4P (3F)2D
203.4616	-2.104	20516.960	2.5	D7 (5D)2D	205.4964	-4.429	23317.633	2.5	D5S2(7S)6S	71964.710	2.5	4P (3D)4P
203.4900	-2.850	87985.628	2.5	4D (5D)4F	205.5268	-0.805	18360.646	1.5	D7 (5D)2D	67000.517	2.5	4P (3F)2D
203.5853	-1.695	22939.358	2.5	D6S (3F)4F	205.5419	-4.178	60270.339	3.5	D5S2(7S)4D	108906.640	3.5	4SP(3G)4H
203.6212	-3.080	49100.976	0.5	D6S (3P)4P	205.5798	-2.520	50142.786	2.5	D6S (3F)4F	98770.140	1.5	4SP(5D)4D
203.6437	-0.622	20516.960	2.5	D7 (5D)2D	205.5888	-3.301	25981.629	3.5	D6S (3G)4G	74606.841	2.5	4P (3F)4F
203.6847	-3.628	88189.030	0.5	4D (5D)4F	205.6753	-1.507	47674.721	1.5	D7 (5D)2D	96279.490	2.5	4SP(3G)2F
203.7150	-4.763	44915.046	3.5	D6S (1F)2F	205.6812	-3.230	38164.194	2.5	D6S (1D)2D	86767.577	2.5	4P (3F)4D
203.7451	-1.329	54902.315	1.5	D6S (3F)2P	205.6841	-5.229	21711.917	3.5	D6S (3H)4H	70314.604	4.5	4P (3G)2G
203.7723	-4.590	44929.550	2.5	D6S (3F)2P	205.6942	-4.152	27314.922	3.5	D6S (3F)2F	75915.215	2.5	4P (3D)2F
203.7729	-3.534	54275.637	2.5	D5S2(7S)4G	205.7012	-3.025	60270.339	3.5	D5S2(7S)4D	108868.980	4.5	4SP(3G)4H
203.7774	-2.247	13904.824	0.5	D7 (5D)4F	205.7331	-1.476	13474.411	2.5	D7 (5D)4P	62065.521	1.5	4P (3F)4F
203.8172	-2.778	88157.116	1.5	4D (5D)4F	205.7572	-4.145	20516.960	2.5	D7 (5D)2D	69102.380	2.5	4SP(5S)4P
203.8730	-5.483	23317.633	2.5	D5S2(7S)6S	205.8030	-4.172	13474.411	2.5	D7 (5D)4P	62049.025	2.5	4SP(7S)6P
203.9106	-2.693	22939.358	2.5	D6S (3F)4F	205.8115	-2.930	44915.046	3.5	D6S (1F)2F	93487.650	3.5	4P (3F)4F
203.9466	-2.119	13673.185	1.5	D7 (5D)4F	205.8169	-3.090	13673.185	1.5	D7 (5D)4P	62244.520	1.5	4P (3F)4F
203.9673	-4.625	23031.300	1.5	D6S (3F)4F	205.8245	-3.951	44915.046	3.5	D6S (1F)2F	93484.580	4.5	4P (3F)4F
204.0237	-3.333	49506.934	1.5	D6S (3P)4P	205.8763	-3.360	50212.826	2.5	D6S (3P)4P	98770.140	1.5	4SP(5D)4D
204.0690	-0.498	15844.650	4.5	D7 (5D)2G	205.8943	-2.573	38214.507	1.5	D6S (1D)2D	86767.577	2.5	4P (3F)4D
204.1310	-2.893	87985.628	2.5	4D (5D)4F	205.9013	-3.803	26055.423	2.5	D6S (3G)4G	74606.841	2.5	4P (3D)2D
204.2539	-8.072	30388.542	4.5	D6S (3G)2G	205.9456	-2.947	25428.784	5.5	D6S (3G)4G	73969.767	5.5	4P (1I)2I
204.2576	-4.275	21581.638	4.5	D6S (3H)4H	205.9581	-3.308	25428.784	5.5	D6S (3G)4G	73966.832	6.5	4P (1I)2I
204.2938	-3.914	23031.300	1.5	D6S (3F)4F	205.9749	-3.308	58631.531	4.5	D6S (1G)2G	107165.600	3.5	1700D
204.3005	-2.559	50075.910	1.5	D6S (3F)4F	205.9925	-4.029	58666.258	3.5	D6S (1G)2G	107196.200	2.5	1800D
204.3320	-2.055	13904.824	0.5	D7 (5D)4F	206.0320	-6.131	30764.485	3.5	D6S (3G)2G	79285.110	2.5	4SP(5S)6P
204.3461	-6.775	23317.633	2.5	D5S2(7S)6S	206.0813	-4.103	27620.412	2.5	D6S (3F)2F	76129.446	1.5	4P (1S)2P
204.3783	-1.257	18360.646	1.5	D7 (5D)2P	206.1174	-5.626	13474.411	2.5	D7 (5D)4P	61974.933	1.5	4SP(7S)6P
204.3913	-4.216	54273.641	4.5	D5S2(7S)4G	206.2034	-3.103	44915.046	3.5	D6S (1F)2F	93395.360	1.5	4P (3F)4F
204.3997	-4.386	54275.637	2.5	D5S2(7S)4G	206.2116	-2.383	13673.185	1.5	D7 (5D)4P	62151.561	2.5	4P (3F)4F
204.4314	-3.495	54283.220	3.5	D5S2(7S)4G	206.2408	-3.691	44929.550	2.5	D6S (3F)2F	69302.090	1.5	4SP(5S)4F
204.4806	-2.654	54232.195	5.5	D5S2(7S)4G	206.2651	-3.166	50075.910	1.5	D6S (3F)4F	98596.650	4.5	4SP(5D)4D
204.4993	-3.839	21430.359	5.5	D6S (3H)4H	206.2748	-1.366	16369.360	3.5	D7 (5D)2G	103334.100	2.5	4P (3D)2F
204.6369	-5.766	23317.633	2.5	D5S2(7S)6S	206.2788	-3.224	16369.360	3.5	D7 (5D)2G	64831.943	4.5	4P (3F)2G
204.6509	-3.646	13474.411	2.5	D7 (5D)4P	206.2840	-3.605	60445.275	2.5	D5S2(7S)4D	108906.640	3.5	4SP(3G)4H
204.6522	-2.526	49506.934	1.5	D6S (3P)4P	206.3221	-8.013	13673.185	1.5	D7 (5D)4P	62125.600	1.5	4P (3D)2D
204.7208	-1.273	49506.934	1.5	D6S (3P)4P	206.3638	-3.058	26055.423	2.5	D6S (3G)4G	74498.057	1.5	4P (3D)2D
204.7688	-4.849	20830.582	2.5	D6S (3F)4F	206.3678	-1.080	15844.650	4.5	D7 (5D)2G	64286.345	3.5	4P (3F)2F
204.7716	-1.529	25787.598	1.5	D6S (3P)2P	206.3735	-2.195	54063.459	0.5	D6S (3P)2P	102503.810	1.5	4SP(3D)2D
204.8029	-6.061	21711.917	3.5	D6S (3H)4H	206.3784	-1.145	50157.452	4.5	D6S (3F)4F	98596.650	4.5	4SP(5D)4F
204.8491	-1.476	20805.770	4.5	D7 (5D)4P	206.4100	-2.929	54902.315	1.5	D6S (3F)2F	103334.100	2.5	4SP(3D)2F
204.9148	-4.865	20516.960	2.5	D7 (5D)2D	206.4181	-3.509	54904.222	3.5	D6S (3F)2F	103334.100	2.5	4SP(3D)2F
204.9533	-3.260	20830.582	2.5	D6S (3P)4P	206.4211	-2.316	50075.910	1.5	D6S (3F)4F	98596.650	4.5	4SP(5D)4D
204.9779	-4.176	13474.411	2.5	D7 (5D)4P	206.5079	-2.158	50187.813	3.5	D6S (3F)4F	98596.650	4.5	4SP(5D)4F
204.9975	-2.609	38164.194	2.5	D6S (1D)2D	206.5357	-2.115	108804.667	3.5	5S (3D)4D	60402.342	2.5	4P (3F)4P
205.0376	-2.828	50142.786	2.5	D6S (3F)4F	206.5501	-3.046	44929.550	2.5	D6S (1F)2F	93328.480	1.5	4P (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
206.5642	-2.798	60384.370	0.5	D582(7S)4D	108780.000	1.5	270DD	207.5497	-4.490	54283.320	3.5	D582(7S)4G	102449.100	2.5	4SP(3D)2D
206.5752	-2.108	50142.786	2.5	D68(3F)4F	86547.490	2.5	4P(1F)2F	207.5559	-3.551	18305.228	4.5	D68(3G)4G	73969.767	5.5	4P(11)2I
206.6009	-1.094	18886.780	0.5	D7(5D)2F	86543.974	1.5	4P(3P)4D	207.5679	-1.905	18360.646	1.5	D7(5D)2F	66522.304	2.5	4P(3G)4F
206.6169	-2.537	38164.194	2.5	D68(1D)2D	98535.850	3.5	4SP(5D)4F	207.7240	-1.252	50212.826	2.5	D68(3P)4F	98338.280	1.5	4SP(5P)4S
206.6378	-2.350	50157.452	4.5	D68(3F)4F	98535.850	3.5	4SP(5D)4F	207.7419	-4.382	50157.452	4.5	D68(3F)4F	98278.770	5.5	4P(1G)2D
206.6487	-6.287	13673.185	1.5	D7(5D)4F	62049.025	2.5	4SP(7S)6P	207.7472	-1.570	50075.910	1.5	D68(3F)4F	98196.000	1.5	4SP(5D)4F
206.6531	-2.555	58631.531	4.5	D68(1G)2G	107006.350	4.5	4SP(3I)2H	207.7522	-5.961	21308.040	1.5	D7(5D)2D	69426.980	0.5	4SP(5S)4P
206.7065	-1.521	50142.786	2.5	D68(3F)4F	98505.100	2.5	4SP(5D)4F	207.8042	-2.686	36252.918	2.5	D68(3D)2D	84359.800	1.5	4P(1F)2D
206.7132	-2.758	60270.339	3.5	D582(7S)4D	108631.090	3.5	4SP(3G)4G	207.8161	-1.555	15844.650	4.5	D7(5D)2G	63948.790	4.5	4P(3F)4G
206.7211	-3.226	60270.339	3.5	D582(7S)4D	108629.250	2.5	4SP(3G)4G	207.8643	-3.987	47674.721	1.5	D7(5D)2D	95767.700	0.5	4SP(5P)4D
206.7676	-1.367	50187.813	3.5	D68(3F)4F	98535.850	3.5	4SP(5D)4F	207.9632	-4.190	13904.824	0.5	D7(5D)4P	61974.933	1.5	4SP(7S)6P
206.7915	-0.637	21308.040	1.5	D7(5D)2D	69650.484	2.5	4P(3P)2F	207.9737	-4.007	54273.641	4.5	D582(7S)4G	102340.300	5.5	4SP(3I)4K
206.8016	-1.000	58666.258	3.5	D68(1G)2D	107006.350	4.5	4SP(3I)2H	207.9810	-0.903	58631.531	4.5	D68(1G)2G	106690.170	5.5	4SP(3I)2H
206.8033	-2.665	13904.824	0.5	D7(5D)4F	62244.520	1.5	4P(3F)4F	208.0241	-1.254	16369.360	3.5	D7(5D)2G	64425.408	2.5	4P(3F)2F
206.8054	-2.603	60441.033	1.5	D582(7S)4D	108780.000	1.5	270DD	208.0361	-2.359	50142.786	2.5	D68(3F)4F	98196.000	1.5	4SP(5D)4F
206.8245	-2.124	60445.275	2.5	D582(7S)4D	108780.000	1.5	270DD	208.0621	-4.396	54904.222	3.5	D68(3F)2F	102951.500	4.5	4SP(3I)4I
206.8320	-1.626	38214.507	1.5	D68(1D)2D	86547.490	2.5	4P(1F)2F	208.1297	-2.928	15844.650	4.5	D7(5D)2G	63876.317	5.5	4P(3F)4G
206.8471	-4.651	38214.507	1.5	D68(1D)2D	86543.974	1.5	4P(3P)4D	208.1590	-4.674	21581.638	4.5	D68(3H)4H	69606.552	3.5	4P(3G)4F
206.8746	-2.864	50212.826	2.5	D68(3P)4F	98535.850	3.5	4SP(5D)4F	208.1662	-3.985	108648.695	6.5	5S(11)2I	60625.449	5.5	4P(3G)4F
206.8769	-3.290	25428.784	5.5	D68(3G)4G	73751.882	4.5	4P(11)2H	208.2781	-3.234	108804.667	3.5	5S(3D)4D	60807.230	4.5	4P(3H)4G
206.8834	-3.585	47674.721	1.5	D7(5D)2D	95995.690	2.5	4SP(5P)4D	208.2928	-5.524	21308.040	1.5	D7(5D)2D	60302.090	1.5	4SP(5S)4P
206.8938	-1.470	38164.194	2.5	D68(1D)2D	86482.750	3.5	4P(1F)2F	208.3358	-2.448	44919.550	2.5	D68(1F)2F	75600.931	3.5	4P(3F)4G
206.9168	-2.678	54870.528	2.5	D68(3F)2F	96356.960	3.5	4SP(3D)2F	208.3401	-3.211	20762.412	2.5	D68(3F)2F	75600.931	3.5	4P(3F)4G
206.9658	-3.794	13673.185	1.5	D7(5D)4F	61974.933	1.5	4SP(7S)6P	208.3516	-2.587	27620.432	2.5	D68(1F)2F	92899.200	2.5	4P(3F)4D
206.9723	-2.186	60270.339	3.5	D582(7S)4D	108570.560	4.5	4SP(3G)4G	208.3988	-4.390	44929.550	2.5	D68(1F)2F	92899.200	2.5	4P(3F)4D
206.9955	-1.319	27620.412	2.5	D68(3F)2F	75915.215	2.5	4P(3D)2F	208.4022	-2.313	60270.339	3.5	D582(7S)4D	108239.200	3.5	240DD
207.0064	-3.285	50212.826	2.5	D68(3P)4F	98505.100	2.5	4SP(5D)4F	208.4522	-4.161	86416.333	3.5	4D(5D)4F	38458.981	4.5	4P(5D)6D
207.0332	-1.176	27314.922	3.5	D68(3F)2F	75600.931	3.5	4P(3D)2F	208.4555	-3.916	48039.090	2.5	D7(5D)2D	95995.690	2.5	4SP(5P)4D
207.0613	-1.287	54904.222	3.5	D68(3F)2F	103183.700	3.5	4SP(3D)2F	208.5290	-4.282	86599.738	2.5	4D(5D)4F	39660.043	3.5	4P(5D)6D
207.0644	-2.704	50075.910	1.5	D68(3F)4F	98354.660	2.5	4SP(5D)4F	208.5018	-2.344	25805.328	4.5	D68(3G)4G	73751.282	4.5	4P(11)2H
207.1347	-4.853	50075.910	1.5	D68(3F)4F	98338.280	2.5	4SP(5S)4F	208.5339	-3.824	17111.917	3.5	D68(3H)4H	69650.484	2.5	4P(3G)2F
207.1547	-3.701	54232.195	5.5	D582(7S)4G	102489.900	6.5	4SP(3I)4K	208.5683	-2.588	60441.033	1.5	D582(7S)4D	108371.700	1.5	250DD
207.1791	-2.128	18360.646	1.5	D7(5D)2F	66612.656	1.5	4P(3G)4F	208.5871	-2.020	30764.485	3.5	D68(3G)2G	78690.846	2.5	4P(1D)2D
207.1806	-2.393	13474.411	2.5	D7(5D)4F	8126.077	3.5	4P(3P)4D	208.5871	-2.020	30764.485	3.5	D68(3G)2G	78690.846	2.5	4P(1D)2D
207.1940	-2.917	50142.786	2.5	D68(3F)4F	98391.330	3.5	4SP(5D)4D	208.5971	-4.931	21711.917	3.5	D68(3H)4H	69606.552	3.5	4P(3G)2F
207.2290	-2.980	48039.090	2.5	D7(5D)2D	96279.490	2.5	4SP(3G)2F	208.6279	-3.576	16369.360	3.5	D7(5D)2F	66248.660	0.5	4P(3G)2G
207.2570	-2.411	50157.452	4.5	D68(3F)4F	98391.330	3.5	4SP(5D)4D	208.7541	-0.674	18360.646	1.5	D7(5D)2F	66248.660	0.5	4P(3G)2G
207.2590	-1.487	36126.387	1.5	D68(3D)2D	84359.800	1.5	4P(1F)2D	208.7927	-3.585	31364.440	1.5	D68(3D)4D	79243.600	1.5	4P(1D)2P
207.2665	-4.278	58631.531	4.5	D68(1G)2G	106863.200	3.5	160DD	208.8102	-4.408	31368.450	0.5	D68(3D)4D	79243.600	1.5	4P(1D)2P
207.2816	-4.042	54275.637	2.5	D582(7S)4G	102503.810	1.5	4SP(3D)2D	208.8752	-2.315	60270.339	3.5	D582(7S)4D	108130.600	2.5	220DD
207.2939	-2.085	49100.976	0.5	D68(3P)4F	97326.270	1.5	4SP(3P)2D	208.8835	-3.355	13474.411	2.5	D7(5D)4F	61332.764	1.5	4P(3F)4P
207.3134	-2.136	13904.824	0.5	D7(5D)4F	62125.600	1.5	4P(3P)2D	208.8953	-4.389	31387.948	2.5	D68(3D)4D	79243.600	1.5	4P(1D)2P
207.3388	-2.740	44915.046	3.5	D68(1F)2F	93129.900	3.5	4P(3F)4D	208.9118	-4.693	86710.837	1.5	4D(5D)4F	38858.958	2.5	4P(5D)6D
207.3516	-2.048	50142.786	2.5	D68(3F)4F	98354.660	2.5	4SP(5D)4F	208.9292	-4.141	108804.667	3.5	5S(3D)4D	60956.781	3.5	4P(3H)4G
207.3876	-2.003	50187.813	3.5	D68(3F)4F	98391.330	3.5	4SP(5D)4D	208.9705	-4.665	21812.055	1.5	D68(3P)4F	69650.484	2.5	4P(3G)2F
207.4189	-1.359	15844.650	4.5	D7(5D)2G	64040.886	3.5	4P(3F)4G	209.0540	-1.998	49506.934	1.5	D68(3P)4F	97326.270	1.5	4SP(3P)2P
207.4221	-3.227	50142.786	2.5	D68(3F)4F	98338.280	1.5	4SP(3F)4G	209.0556	-3.990	48039.090	2.5	D7(5D)2D	95858.050	1.5	4SP(5P)4D
207.4534	-2.942	60441.033	1.5	D582(7S)4D	108629.250	1.5	4SP(3G)4G	209.0719	-3.420	108804.667	3.5	5S(3D)4D	60989.444	4.5	4P(3H)4H
207.4638	-2.426	60445.275	2.5	D582(7S)4D	108631.090	3.5	4SP(3G)4G	209.0899	-4.860	108648.695	6.5	5S(11)2I	60837.569	6.5	4P(3H)4H
207.4717	-3.478	60445.275	2.5	D582(7S)4D	108629.250	2.5	4SP(3G)4G	209.1069	-3.909	60384.370	0.5	D582(7S)4D	108191.600	1.5	230DD
207.4745	-3.880	47674.721	1.5	D7(5D)2D	95858.050	1.5	4SP(5P)4D	209.1403	-1.897	26170.181	5.5	D68(3H)2H	73969.767	5.5	4P(11)2I
207.4953	-2.681	50212.826	2.5	D68(3P)4F	98391.330	3.5	4SP(5D)4D	209.1465	-6.077	25805.328	4.5	D68(3G)4G	73603.500	5.5	4P(11)2H
207.4960	-3.736	48039.090	2.5	D7(5D)2D	96217.420	3.5	4SP(5F)4D	209.1532	-2.125	26170.181	5.5	D68(3H)2H	73966.832	6.5	4P(11)2I
207.5116	-1.759	25428.784	5.5	D68(3G)4G	73603.500	5.5	4P(11)2H	209.1633	-6.375	21308.040	1.5	D7(5D)2D	69102.040	2.5	4SP(5S)4P
207.5170	-4.886	54275.637	2.5	D582(7S)4G	102449.100	2.5	4SP(3D)2D	209.1651	-1.832	60445.275	2.5	D582(7S)4D	108239.200	3.5	240DD
207.5455	-2.050	50187.813	3.5	D68(3F)4F	98354.660	2.5	4SP(5D)4F	209.2246	-1.201	44915.046	3.5	D68(1F)2F	92695.374	2.5	4P(3P)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
209.2714	-7.865	25981.629	3.5	D6S (3G)4G	73751.282	4.5	4P (1I)2H	210.7555	-0.710	210.8405	-3.672	4D (1D)2F	73603.500	5.5	4P (1I)2H
209.2882	-3.119	44929.550	2.5	D6S (1F)2F	92695.374	2.5	4P (3P)2D	210.7623	-2.430	31811.822	2.5	D7 (5D)2F	79243.600	1.5	4P (1D)2P
209.3009	-4.348	108804.667	3.5	5S (3D)4D	61041.748	2.5	4P (3H)4G	210.7744	-2.064	44929.550	2.5	D6S (1F)2F	92358.610	1.5	4SP(5G)4F
209.3089	-3.695	108648.695	6.5	5S (1I)2I	60887.598	5.5	4P (3H)4H	210.7794	-2.162	13904.824	0.5	D7 (5D)4F	61332.764	1.5	4P (3P)4P
209.3300	-3.369	86416.333	3.5	4D (5D)4F	38660.043	3.5	4P (5D)6D	210.8137	-2.015	13673.185	1.5	D7 (5D)4P	61093.413	2.5	4P (3P)2D
209.3351	-3.013	60441.033	1.5	D5S2(7S)4D	108191.600	1.5	230DD	210.8376	-2.133	44915.046	3.5	D6S (1F)2F	92329.890	2.5	4SP(5G)4F
209.3627	-0.982	30388.542	4.5	D6S (3G)2G	78137.364	3.5	4P (1D)2F	210.8405	-3.672	109463.220	3.5	4SD(7S)8D	62049.025	2.5	4SP(7S)6P
209.3737	-2.261	60445.275	2.5	D5S2(7S)4D	108191.600	1.5	230DD	210.8759	-3.197	109455.250	2.5	4SD(7S)8D	62049.025	2.5	4SP(7S)6P
209.3924	-2.598	36126.387	1.5	D6S (3D)2D	83868.450	2.5	4P (1F)2D	210.8969	-2.056	25787.598	1.5	D6S (3P)2P	73189.110	1.5	4P (3D)2P
209.3980	-3.924	86599.738	2.5	4D (5D)4F	38858.958	2.5	4P (5D)6D	210.9014	-3.054	109449.530	1.5	4SD(7S)8D	62049.025	2.5	4SP(7S)6P
209.4634	-2.010	18886.780	0.5	D7 (5D)2P	66612.656	1.5	4P (3G)4F	210.9021	-3.271	44929.550	2.5	D6S (1F)2F	92329.890	2.5	4SP(5G)4F
209.4977	-1.449	16369.360	3.5	D7 (5D)2G	64087.418	2.5	4P (3F)4G	210.9050	-2.469	26352.766	4.5	D6S (3H)2H	73751.282	4.5	4P (1I)2H
209.4981	-2.841	44929.550	2.5	D6S (1F)2F	92647.510	1.5	4P (3F)4D	210.9102	-0.746	26352.766	4.5	D6S (3H)2H	73751.282	4.5	4P (1I)2H
209.4996	-2.736	18360.646	1.5	D7 (5D)2P	66078.269	2.5	4P (3G)4G	210.9461	-6.361	21711.917	3.5	D6S (3H)4H	69102.380	2.5	4SP(5S)4P
209.5184	-3.431	22810.357	3.5	D6S (3F)4F	70523.706	3.5	4P (3G)2G	211.0244	-2.696	30764.485	3.5	D6S (3G)2G	78137.364	3.5	4P (1D)2F
209.5276	-3.830	108804.667	3.5	5S (3D)4D	61093.413	2.5	4P (3P)2D	211.0311	-0.848	47674.721	1.5	D7 (5D)2D	95046.100	2.5	4P (3F)2F
209.5874	-4.754	86710.837	1.5	4D (5D)4F	39013.206	1.5	4P (5D)6D	211.0436	-2.937	13673.185	1.5	D7 (5D)4P	61041.748	2.5	4P (3H)4G
209.6018	-1.528	60270.339	3.5	D5S2(7S)4D	107964.700	4.5	210DD	211.0487	-2.904	44915.046	3.5	D6S (1F)2F	92282.460	3.5	4SP(5G)4F
209.6229	-2.295	60441.033	1.5	D5S2(7S)4D	108130.600	2.5	220DD	211.0618	-2.537	47674.721	1.5	D7 (5D)2D	95039.200	1.5	4P (3P)2P
209.6313	-3.569	44915.046	3.5	D6S (1F)2F	92602.703	3.5	4P (3F)2G	211.0724	-1.869	13673.185	1.5	D7 (5D)4P	61035.287	0.5	4P (3P)4P
209.6415	-2.386	60445.275	2.5	D5S2(7S)4D	108130.600	2.5	220DD	211.0859	-1.002	18886.780	0.5	D7 (5D)2F	66248.660	0.5	4P (3P)4P
209.6543	-3.269	13474.411	2.5	D7 (5D)4P	61156.835	3.5	4P (3H)4H	211.1134	-1.642	44929.550	2.5	D6S (1F)2F	92282.460	3.5	4SP(5G)4F
209.6764	-3.674	22637.205	4.5	D6S (3F)4F	70314.604	4.5	4P (3G)2G	211.1506	-4.569	44929.550	2.5	D6S (1F)2F	92274.120	2.5	4P (3P)4P
209.6931	-1.373	44929.550	2.5	D6S (1F)2F	92602.703	3.5	4P (3F)2G	211.1578	-4.603	54063.459	0.5	D6S (3P)2P	101402.380	2.5	4SP(5D)4P
209.7022	-1.943	16369.360	3.5	D7 (5D)2G	64040.886	3.5	4P (3F)4G	211.1801	-2.053	25805.328	4.5	D6S (3G)4G	73143.288	3.5	4P (1G)2G
209.7295	-2.780	86124.301	4.5	4D (5D)4F	38458.981	4.5	4P (1G)2G	211.2316	-4.490	31364.440	1.5	D6S (3D)4D	78690.846	2.5	4P (1D)2D
209.7406	-1.239	25428.784	5.5	D6S (3G)4G	73091.590	4.5	4P (3P)2H	211.3405	-2.891	109473.650	4.5	4SD(7S)8D	62171.615	3.5	4SP(7S)6P
209.7508	-7.280	20340.300	5.5	D7 (5D)4P	68000.788	4.5	4P (3G)2H	211.3675	-3.074	44929.550	2.5	D6S (1F)2F	92225.538	1.5	5P (5D)4P
209.7548	-1.695	13673.185	1.5	D7 (5D)4P	61332.764	1.5	4P (3H)4H	211.3857	-1.882	27314.922	3.5	D6S (3F)2F	74606.841	2.5	4P (3D)2D
209.8367	-3.899	108630.429	5.5	5S (1I)2I	60989.444	4.5	4P (3H)4H	211.3871	-2.866	109463.220	3.5	5S (3D)4D	61512.634	4.5	4P (3H)4I
209.8706	-3.957	54870.528	2.5	D6S (3F)2F	102503.810	1.5	4SP(3D)2D	211.3852	-2.700	108804.667	3.5	5S (3D)4D	61512.634	4.5	4P (3H)4I
209.9336	-4.729	13474.411	2.5	D7 (5D)4P	61093.413	2.5	4P (3P)2D	211.3928	-3.811	21812.055	1.5	D6S (3P)4P	69102.380	2.5	4SP(5S)4P
209.9400	-4.638	57411.065	2.5	D5S2(7S)4P	105028.600	3.5	4SP(3I)4H	211.4087	-1.330	44929.550	2.5	D6S (1F)2F	92216.320	1.5	4P (3P)2D
209.9424	-2.235	26352.766	4.5	D6S (3H)2H	73969.767	5.5	4P (1I)2I	211.4110	-2.211	25805.328	4.5	D6S (3G)4G	73091.590	4.5	4P (1G)2G
209.9456	-2.560	60270.339	3.5	D5S2(7S)4D	107886.600	3.5	200DD	211.4227	-3.169	109455.250	2.5	4SD(7S)8D	62171.615	3.5	4SP(7S)6P
209.9489	-1.546	36252.918	2.5	D6S (3D)2D	83868.450	2.5	4P (1F)2D	211.4959	-4.007	25787.598	1.5	D6S (3P)2P	73054.881	2.5	4P (1G)2F
209.9515	-4.113	21812.055	1.5	D6S (3P)4P	69426.980	0.5	4SP(5S)4F	211.5434	-1.125	44915.046	3.5	D6S (3P)2P	92171.716	1.5	4P (3F)2G
210.0108	-3.358	54902.315	1.5	D6S (3P)2P	102503.810	1.5	4SP(3D)2D	211.5700	-2.959	26352.766	4.5	D6S (3H)2H	73603.500	5.5	4P (3F)2G
210.0768	-4.172	86599.738	2.5	4D (5D)4F	39013.206	1.5	4P (5D)6D	211.5716	-3.834	50075.910	1.5	D6S (3F)4F	97326.270	1.5	4SP(3P)2P
210.1082	-7.033	16369.360	3.5	D7 (5D)2G	73751.282	4.5	4P (1I)2H	211.6870	-4.177	44929.550	2.5	D6S (1F)2F	92154.165	3.5	4SP(5D)6F
210.1120	-3.407	54870.528	2.5	D6S (3F)2F	102449.100	2.5	4SP(3D)2D	211.6993	-0.824	25428.784	5.5	D6S (3G)4G	72650.658	4.5	4P (3D)4F
210.1616	-4.396	13474.411	2.5	D7 (5D)4P	61041.748	2.5	4P (3H)4G	211.7489	-3.349	25805.328	4.5	D6S (3G)4G	73016.147	3.5	4P (1G)2F
210.1706	-1.756	26932.748	0.5	D6S (3P)2P	74498.057	1.5	4P (5D)2D	211.7701	-7.820	47674.721	1.5	D7 (5D)2D	94880.740	3.5	4SP(5P)4P
210.2036	-3.540	86416.333	3.5	4D (5D)4F	38858.958	2.5	4P (5D)6D	211.7896	-2.137	44915.046	3.5	D6S (1F)2F	92116.780	4.5	4SP(5G)4H
210.2525	-1.798	54902.315	1.5	D6S (3P)2P	102449.100	2.5	4SP(3D)2D	211.8198	-1.559	20805.770	4.5	D7 (5D)2H	68000.788	4.5	4P (3G)2H
210.2609	-2.887	54904.222	3.5	D6S (3F)2F	102449.100	2.5	4SP(3D)2D	211.8715	-3.724	50142.786	2.5	D6S (3F)4F	97326.270	1.5	4SP(3P)2H
210.4067	-2.233	44915.046	3.5	D6S (1F)2F	92426.980	4.5	4SP(5G)4F	211.9050	-1.336	20340.300	5.5	D7 (5D)2H	67516.332	5.5	4P (3G)2H
210.4408	-3.770	22810.357	3.5	D6S (3F)4F	70314.604	4.5	4P (3G)2G	211.9696	-3.016	25981.629	3.5	D6S (3G)4G	73143.288	3.5	4P (1G)2G
210.5037	-6.930	21812.055	1.5	D6S (3P)4P	69302.090	1.5	4SP(5S)4F	211.9784	-3.350	44929.550	2.5	D6S (1F)2F	92089.260	3.5	4SP(5G)4H
210.5377	-4.717	13474.411	2.5	D7 (5D)4P	60956.781	3.5	4P (3H)4G	212.0094	-4.548	26055.423	2.5	D6S (3G)4G	73189.110	1.5	4P (3D)2P
210.5468	-4.710	109455.250	2.5	4SD(7S)8D	61974.933	1.5	4SP(7S)8P	212.1009	-3.314	37227.326	0.5	D6S (1S)2S	84359.800	1.5	4P (1F)2D
210.5592	-3.721	31364.440	1.5	D6S (3D)4D	78841.960	0.5	4P (1D)2P	212.1099	-2.879	13904.824	0.5	D7 (5D)4P	61035.287	0.5	4P (3P)4P
210.5722	-4.893	109449.530	1.5	4SD(7S)8D	61974.933	1.5	4SP(7S)8P	212.1448	-3.640	31364.440	1.5	D6S (3D)4D	78487.153	1.5	4P (1D)2D
210.5770	-3.122	31368.450	0.5	D6S (3D)4D	78841.960	0.5	4P (1D)2P	212.1522	-3.271	108648.695	6.5	5S (1I)2I	61527.616	6.5	4P (3H)4I
210.6181	-3.058	86124.301	4.5	4D (5D)4F	38660.043	3.5	4P (5D)6D	212.1629	-3.512	31368.450	0.5	D6S (3D)4D	78487.153	1.5	4P (1D)2D
210.7199	-1.471	60445.275	2.5	D5S2(7S)4D	107886.600	3.5	200DD								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
212.1866	-2.002	50212.826	2.5	D6S (3F)4P	97326.270	1.5	4SP(3P)2P	214.0143	-4.096	22939.358	2.5	D6S (3F)4F
212.2022	-2.953	25981.629	3.5	D6S (3C)4G	73091.590	4.5	4P (1G)2G	214.0169	-2.346	20805.770	4.5	D7 (5D)2H
212.2454	-2.209	15844.540	4.5	D7 (5D)2G	62945.038	3.5	4P (1G)2G	214.0498	-4.797	54870.528	2.5	D6S (3G)2F
212.3018	-3.308	26055.423	2.5	D6S (3C)4G	73143.288	3.5	4P (1G)2G	214.0579	-3.885	25428.784	5.5	D6S (3G)4F
212.3347	-2.825	108804.667	3.5	5S (3D)4D	61726.077	3.5	4P (3F)4D	214.0649	-3.133	48039.090	2.5	D7 (5D)2D
212.3677	-3.312	25981.629	3.5	D6S (3C)4G	73054.881	2.5	4P (1G)2F	214.1029	-1.354	31999.848	3.5	D7 (5D)2F
212.4075	-4.742	47674.721	1.5	D7 (5D)2D	94739.170	1.5	4SP(5P)4P	214.1784	-1.942	31811.822	2.5	D7 (5D)2F
212.5034	-3.810	108630.429	5.5	5S (1I)2I	61587.214	5.5	4P (3H)4I	214.1956	-3.873	54902.315	1.5	D6S (3P)2P
212.5154	-0.781	48039.090	2.5	D7 (5D)2D	95079.640	3.5	4P (3F)2F	214.2018	-1.846	25981.629	3.5	D6S (3G)4G
212.5472	-2.662	25981.629	3.5	D6S (3G)4G	73016.147	3.5	4P (1G)2F	214.2074	-2.907	25981.629	3.5	D6S (3G)4G
212.5814	-2.534	47674.721	1.5	D7 (5D)2D	94700.660	2.5	4P (3F)2D	214.2158	-3.001	22939.358	2.5	D6S (3F)4F
212.6098	-4.622	85679.698	2.5	4D (5D)4G	38660.043	3.5	4P (5D)6D	214.2180	-2.075	49100.976	0.5	D6S (3P)4P
212.6213	-4.511	22409.852	0.5	D6S (3P)4P	69426.980	0.5	4SP(5S)4P	214.2190	-3.949	85679.698	2.5	4D (5D)4G
212.6518	-3.949	47674.721	1.5	D7 (5D)2D	94685.090	2.5	4SP(5D)6P	214.2333	-1.911	26352.766	4.5	D6S (3H)2H
212.6670	-2.415	48039.090	2.5	D7 (5D)2D	95046.100	2.5	4P (3F)2F	214.2416	-1.505	48039.090	2.5	D7 (5D)2D
212.6812	-4.574	85462.862	3.5	4D (5D)4G	38458.981	4.5	4P (5P)6D	214.2755	-3.352	31483.176	3.5	D6S (3D)4D
212.6983	-0.969	48039.090	2.5	D7 (5D)2D	95039.200	1.5	4P (3P)2P	214.2993	-3.539	977.053	0.5	D6S (5D)6D
212.7012	-2.174	26055.423	2.5	D6S (3G)4G	73054.881	2.5	4P (1G)2F	214.3106	-1.143	108804.667	3.5	5S (3D)4D
212.7602	-2.705	27620.412	2.5	D6S (3F)2F	74606.841	2.5	4P (3D)2D	214.3131	-3.337	48039.090	2.5	D7 (5D)2D
212.7973	-1.163	30764.485	3.5	D6S (3G)2G	77742.730	2.5	4P (1D)2F	214.3310	-3.092	25787.598	1.5	D6S (3P)2P
212.8376	-3.818	26055.423	2.5	D6S (3C)4G	73016.147	3.5	4P (1G)2F	214.3505	-3.684	25981.629	3.5	D6S (3G)4G
213.0255	-1.552	13474.411	2.5	D7 (5D)4P	60402.342	2.5	4P (3P)4P	214.3575	-2.448	85495.304	2.5	4D (5D)6S
213.0349	-2.232	60270.339	3.5	D5S2(7S)4D	107196.200	2.5	180DD	214.3624	-4.933	57411.065	2.5	D5S2(7S)4P
213.0551	-0.936	26170.181	5.5	D6S (3H)2H	73091.590	4.5	4P (1G)2G	214.3727	-3.796	108804.667	3.5	5S (3D)4D
213.1359	-2.615	16369.360	3.5	D7 (5D)2G	63272.976	2.5	4P (3F)4D	214.4350	-2.549	85728.806	1.5	4D (5D)4S
213.1739	-1.852	60270.339	3.5	D5S2(7S)4D	107165.600	3.5	170DD	214.5067	-3.022	85462.862	3.5	4D (5D)4G
213.1876	-4.024	22409.852	0.5	D6S (3P)4P	69302.090	1.5	4SP(5S)4P	214.5410	-2.868	26055.423	2.5	D6S (3G)4G
213.2247	-2.445	31811.822	2.5	D7 (5D)2F	78690.846	2.5	4P (1D)2D	214.5576	-2.521	60270.339	3.5	D5S2(7S)4D
213.2540	-1.823	27620.412	2.5	D6S (3F)2F	74498.057	1.5	4P (3D)2D	214.6046	-2.616	384.790	3.5	D6S (5D)6D
213.2890	-2.445	85728.806	1.5	4D (5D)4S	38858.958	2.5	4P (5D)6D	214.6368	-1.983	16369.360	3.5	D7 (5D)2G
213.3956	-1.547	25805.328	4.5	D6S (3C)4G	72651.876	3.5	4P (3D)4D	214.6610	-2.777	21430.359	5.5	D6S (3H)4H
213.4011	-1.536	25805.328	4.5	D6S (3C)4G	72650.658	4.5	4P (3D)4D	214.6903	-3.261	26055.423	2.5	D6S (3G)4G
213.4248	-3.449	22810.357	3.5	D6S (3F)4F	69650.484	2.5	4P (3G)2F	214.7412	-4.036	57493.321	1.5	D5S2(7S)4P
213.4470	-2.826	85495.304	2.5	4D (5D)6S	38660.043	3.5	4P (5D)6D	214.7675	-4.560	108630.429	5.5	5S (1I)2I
213.4576	-2.787	25428.784	5.5	D6S (3G)4G	72261.729	5.5	4P (1G)2H	214.7704	-0.821	25805.328	4.5	D6S (3G)4G
213.4624	-4.976	25787.598	1.5	D6S (3P)2P	72619.490	2.5	4P (3D)4D	214.8151	-4.034	47674.721	1.5	D7 (5D)2D
213.5132	-3.683	85679.698	2.5	4D (5D)4G	38858.958	2.5	4P (5D)6D	214.8606	-3.656	862.613	1.5	D6S (5D)6D
213.5276	-2.545	15844.650	4.5	D7 (5D)2G	62662.244	5.5	4P (3H)2I	214.8720	-2.307	54902.315	1.5	D6S (3P)2P
213.5950	-2.992	85462.862	3.5	4D (5D)4G	38660.043	3.5	4P (5D)6D	214.9858	-3.827	54902.315	1.5	D6S (3P)2P
213.6252	-5.782	22810.357	3.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F	215.0381	-1.614	49506.934	1.5	D6S (3P)4P
213.6511	-0.984	26352.766	4.5	D6S (3H)2H	73143.288	3.5	4P (1G)2G	215.0622	-0.741	20516.960	2.5	D7 (5D)2D
213.7332	-4.270	49506.934	1.5	D6S (3P)4P	96279.490	2.5	4SP(3G)2F	215.0683	-2.568	108804.667	3.5	5S (3H)2G
213.7768	-3.079	862.613	1.5	D6S (5D)6D	47626.076	0.5	4P (5D)4P	215.0689	-2.632	85495.304	2.5	4D (5D)6S
213.8040	-1.860	49100.976	0.5	D6S (3P)4P	95858.050	1.5	4SP(5P)4D	215.0764	-1.149	26170.181	5.5	D6S (3H)2H
213.8049	-1.860	20516.960	2.5	D7 (5D)2D	67273.826	1.5	4P (3F)2D	215.0889	-3.370	15844.650	4.5	D7 (5D)2G
213.8127	-3.546	60441.033	1.5	D5S2(7S)4D	107196.200	2.5	180DD	215.1056	-2.805	57493.321	1.5	D5S2(7S)4P
213.8321	-2.117	60445.275	2.5	D5S2(7S)4D	107196.200	2.5	180DD	215.1091	-1.369	18360.646	1.5	D7 (5D)2P
213.8390	-3.647	31387.948	2.5	D6S (3D)4D	78137.364	3.5	4P (1D)2F	215.1289	-5.061	26055.423	2.5	D6S (3G)4G
213.8860	-4.313	108804.667	3.5	5S (3D)4D	62065.521	3.5	4P (1G)4F	215.1879	-3.916	25805.328	4.5	D6S (3G)4G
213.8875	-1.952	26352.766	4.5	D6S (3H)2H	73091.590	4.5	4P (1F)2G	215.2368	-1.306	18360.646	1.5	D7 (5D)2P
213.8960	-2.760	25787.598	1.5	D6S (3P)2P	72524.566	1.5	4P (3D)4D	215.2489	-5.834	20330.582	2.5	D6S (3F)2F
213.9317	-2.745	13673.185	1.5	D7 (5D)4P	60402.342	2.5	4P (3P)4P	215.2808	-2.826	27314.922	3.5	D6S (3P)4P
213.9473	-2.654	85184.734	4.5	4D (5D)4G	38458.981	4.5	4P (5D)6D	215.2808	-2.826	27314.922	3.5	D6S (3P)4P
213.9640	-2.726	667.683	2.5	D6S (5D)6D	47389.779	1.5	4P (5D)4P	215.3317	-3.422	25787.598	1.5	D6S (3P)2P
213.9665	-2.321	108804.667	3.5	5S (3D)4D	62083.108	4.5	4P (3H)2G	215.3606	-2.563	21581.638	4.5	D6S (3H)4H
213.9722	-1.978	60445.275	2.5	D5S2(7S)4D	107165.600	3.5	170DD	215.3663	-2.479	60445.275	2.5	D5S2(7S)4D
213.9938	-2.298	85728.806	1.5	4D (5D)4S	39013.206	1.5	4P (5D)6D	215.3904	-3.767	977.053	0.5	D6S (5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
215.4292	-1.615	84863.351	5.5	4D (5D)4G	38458.981	4.5	4P (5D)6D	216.5434	-3.763	47674.721	1.5	D7 (5D)2D	93840.340	1.5	4SP(5D)6D
215.4696	-5.818	23031.300	1.5	D6S (3F)4F	69426.980	0.5	4SP(5S)4F	216.5556	-5.402	22939.358	2.5	D6S (3F)4F	69102.380	2.5	4SP(5S)4F
215.5006	-3.808	57578.484	0.5	D5S2(7S)4F	103967.490	0.5	4SP(3P)2S	216.5717	-2.975	85172.809	0.5	4D (5D)4D	39013.206	1.5	4P (5D)4D
215.5359	-3.940	72168.998	1.5	D6S (3F)2P	72168.998	1.5	4P (3D)4F	216.5874	-4.781	47674.721	1.5	D7 (5D)2D	93830.979	2.5	4SP(5D)6D
215.5504	-4.026	31364.440	1.5	D6S (3D)4D	77742.730	2.5	4P (1D)2F	216.5915	-4.713	20516.960	2.5	D7 (5D)2D	66172.334	3.5	4P (3G)4H
215.5871	-1.363	25981.629	3.5	D6S (3G)4G	72352.024	3.5	4P (3D)4F	216.6226	-4.947	25981.629	3.5	D6S (3G)4G	62130.390	4.5	4P (1G)2H
215.6227	-4.929	22939.358	2.5	D6S (3F)4F	69302.090	1.5	4SP(5P)4F	216.6388	-1.270	38214.507	1.5	D6S (1D)2D	84359.800	1.5	4P (1F)2D
215.6245	-3.377	58666.258	3.5	D6S (1G)2G	105028.600	3.5	4SP(3I)4H	216.6443	-3.652	50212.826	2.5	D6S (3F)4F	48P(3G)2F		
215.6510	-4.341	47674.721	1.5	D7 (5D)2D	94031.378	0.5	4SP(5D)6D	216.6716	-0.708	31999.048	3.5	D7 (5D)2F	78137.364	3.5	4P (1D)2F
215.6562	-2.250	108648.695	6.5	5S (1I)2I	62933.164	6.5	4P (3H)2I	216.6792	-4.596	50142.786	2.5	D6S (3F)4F	96279.490	2.5	48P(3G)2F
215.6597	-4.190	31387.948	2.5	D6S (3D)4D	77742.730	2.5	4P (1D)2F	216.7425	-1.538	20340.300	5.5	D7 (5D)2H	64643.528	5.5	4P (3G)4H
215.6767	-2.047	49506.934	1.5	D6S (3P)4F	95858.050	1.5	4SP(5P)4F	216.7711	-3.656	54283.320	3.5	D5S2(7S)4G	100400.360	2.5	4SP(3P)2D
215.7618	-6.666	23317.633	2.5	D5S2(7S)6S	69650.484	2.5	4P (3G)2F	216.7822	-3.738	108804.667	3.5	5S (3D)4D	62689.880	2.5	4P (3F)4D
215.7892	-7.711	15844.650	4.5	D7 (5D)2G	62171.615	3.5	4SP(7S)6P	216.7879	-0.934	26055.423	2.5	D6S (3G)4G	72168.998	1.5	4P (3D)4F
215.7958	-2.129	31811.822	2.5	D7 (5D)2F	78137.364	3.5	4P (1D)2F	216.8290	-3.906	862.613	1.5	D6S (5D)6D	46967.444	2.5	4P (5D)4F
215.7981	-4.397	25805.328	4.5	D6S (3G)4G	72130.390	4.5	4P (1G)2H	216.8624	-4.627	57578.484	0.5	D5S2(7S)4P	103678.220	0.5	4F(5D)2[1]
215.8192	-4.719	16369.360	3.5	D7 (5D)2G	62689.880	2.5	4P (3F)4D	216.8720	-2.445	20516.960	2.5	D7 (5D)2D	66612.656	1.5	4P (3G)4F
215.8521	-1.802	15844.650	4.5	D7 (5D)2G	62158.110	4.5	4P (3F)4F	216.8909	-3.737	50187.813	5.5	D6S (3F)4F	96279.490	2.5	48P(3G)2F
215.8522	-2.754	47674.721	1.5	D7 (5D)2D	93988.170	2.5	4SP(5G)4G	216.8915	-2.377	26170.181	5.5	D6S (3H)2H	72261.729	5.5	4P (1G)2H
215.8856	-3.556	58631.531	4.5	D6S (1G)2G	104937.800	4.5	4SP(3I)4H	216.8978	-4.886	57578.484	0.5	D5S2(7S)4P	103668.690	1.5	4F(5D)2[1]
215.9125	-4.165	57411.065	2.5	D6S (3F)4F	103711.570	3.5	4F(5D)2[4]	216.9177	-1.870	21430.359	5.5	D6S (3H)4H	67516.332	5.5	4P (3G)2H
215.9160	-3.770	667.683	2.5	D6S (5D)6D	46967.444	2.5	4P (5D)4F	216.9376	-4.972	50157.452	4.5	D6S (3F)4F	96239.200	4.5	48P(3G)2H
215.9190	-5.679	26352.766	4.5	D6S (3H)2H	72651.876	3.5	4P (3D)4D	216.9864	-2.551	20340.300	5.5	D7 (5D)2H	66411.686	6.5	4P (3G)4H
215.9247	-2.468	26352.766	4.5	D6S (3H)2H	72650.658	4.5	4P (3D)4F	216.9878	-6.626	23031.300	1.5	D6S (3F)4F	69102.380	2.5	48P(5S)4F
215.9307	-3.221	26055.423	2.5	D6S (3G)4G	69352.024	2.5	4P (3D)4F	216.9986	-3.224	84527.778	4.5	4D (5D)6G	38458.981	4.5	4P (5D)6D
215.9321	-4.464	22810.357	3.5	D6S (3F)4F	69102.380	2.5	4SP(5S)4P	217.0086	-4.646	50212.826	2.5	D6S (3F)4F	96279.490	2.5	48P(3G)2F
215.9590	-4.336	57578.484	0.5	D5S2(7S)4P	103869.020	1.5	4F(5D)1[2]	217.0176	-2.236	18360.646	1.5	D7 (5D)2P	64425.408	2.5	4P (3F)2D
215.9666	-7.710	23317.633	2.5	D5S2(7S)6S	69606.552	3.5	4P (3G)2F	217.0235	-2.734	85172.809	0.5	4D (5D)4D	93109.307	0.5	4P (5D)6D
215.9668	-2.108	21711.917	3.5	D6S (3H)4H	68000.788	4.5	4P (3G)2H	217.0402	-1.828	50157.452	4.5	D6S (3F)4F	96217.420	3.5	48P(3F)4D
215.9738	-4.855	57411.065	2.5	D5S2(7S)4P	103698.440	2.5	4F(5D)2[3]	217.0806	-3.154	50187.813	3.5	D6S (3F)4F	96239.200	4.5	48P(3G)2H
216.0477	-3.597	58666.258	3.5	D6S (1G)2G	104937.800	4.5	4SP(3I)4H	217.1561	-3.208	85048.692	1.5	D7 (5D)4D	39013.206	1.5	4P (5D)6D
216.0512	-5.927	23031.300	1.5	D6S (3F)4F	69302.090	1.5	4SP(5S)4F	217.1619	-3.070	48039.600	2.5	D7 (5D)2D	94073.240	3.5	4P (5G)4G
216.0795	-2.196	21251.608	6.5	D6S (3H)4H	76716.332	5.5	4P (3G)2H	217.2044	-1.358	84685.198	3.5	4D (5D)4D	38660.043	3.5	4P (5D)6D
216.1037	-4.605	31483.176	3.5	D6S (3D)4D	77742.730	2.5	4P (1D)2F	217.2669	-1.743	84870.863	4.5	D7 (5D)4D	38858.958	2.5	4P (5D)6D
216.1162	-0.805	25981.629	3.5	D6S (3G)4G	72238.513	2.5	4P (3D)4F	217.2979	-1.702	20516.960	2.5	D7 (5D)2D	65522.304	2.5	4P (3G)4F
216.1186	-3.355	26932.748	0.5	D6S (3P)2P	73189.110	1.5	4P (3D)2P	217.3015	-1.348	50212.826	2.5	D6S (3F)4F	96217.420	3.5	48P(5F)4D
216.1230	-3.739	25787.598	1.5	D6S (3P)2P	72043.026	1.5	4P (3D)4P	217.3267	-1.969	26352.766	4.5	D6S (3H)2H	72352.024	3.5	4P (3D)4F
216.1271	-2.130	26932.748	0.5	D6S (3P)2P	73187.280	0.5	4P (3D)2P	217.3459	-4.634	57411.065	2.5	D5S2(7S)4P	103406.250	2.5	4F(5D)3[2]
216.1404	-4.087	84710.685	3.5	4D (5D)6G	38458.981	4.5	4P (5D)6D	217.3692	-2.553	13673.185	1.5	D7 (5D)4P	59663.456	1.5	4P (3F)4S
216.1487	-4.972	57411.065	2.5	D5S2(7S)4P	103660.980	2.5	4F(5D)2[2]	217.3818	-1.977	20655.423	2.5	D6S (3G)4G	72043.026	1.5	4P (3D)4P
216.1544	-3.337	15844.650	4.5	D7 (5D)2G	66589.108	4.5	4P (3H)4H	217.3872	-2.802	108648.695	6.5	5S (1I)2I	62662.244	5.5	4P (3H)2I
216.2023	-0.650	15844.650	4.5	D7 (5D)2G	62083.108	4.5	4P (3H)2G	217.3899	-4.444	84844.834	2.5	4D (5D)6G	38858.958	2.5	4P (5D)6D
216.2295	-1.676	84685.198	3.5	4D (5D)4D	38458.981	4.5	4P (5D)6D	217.3966	-2.884	23317.633	2.5	D5S2(7S)6S	69302.090	1.5	48P(5S)4P
216.2846	-3.289	15844.650	4.5	D7 (5D)2G	62065.521	3.5	4P (3F)4F	217.4031	-3.292	25981.629	3.5	D6S (3G)4G	71964.710	2.5	4P (3D)4P
216.3159	-3.550	50142.786	2.5	D6S (3F)4F	96356.960	3.5	4SP(3G)2F	217.4429	-4.346	57411.065	2.5	D5S2(7S)4P	103385.730	3.5	4F(5D)3[3]
216.3555	-3.249	50075.910	1.5	D6S (3F)4F	96279.490	2.5	4SP(3G)2F	217.4476	-2.378	108630.429	5.5	5S (1I)2I	62662.244	5.5	4P (3H)2I
216.3846	-3.567	50157.452	4.5	D6S (3F)4F	96356.960	3.5	4SP(3G)2F	217.4850	-1.194	21308.040	1.5	D7 (5D)2D	67273.826	1.5	4P (3F)2D
216.4029	-2.078	38164.194	2.5	D6S (1D)2D	84359.800	1.5	4P (1F)2D	217.5113	-2.062	26170.181	5.5	D6S (3H)2H	72130.390	4.5	4P (1G)2H
216.4308	-2.968	85048.602	1.5	4D (5D)4D	38858.958	2.5	4P (5D)6D	217.5418	-4.666	57411.065	2.5	D5S2(7S)4P	103364.840	2.5	4F(5D)3[3]
216.4336	-1.331	13474.411	2.5	D7 (5D)4P	59663.456	1.5	4P (3F)4S	217.5451	-0.829	16369.360	3.5	D7 (5D)2G	62322.431	3.5	4P (3H)2G
216.4513	-3.186	58631.531	4.5	D6S (1G)2G	104816.800	5.5	4SP(3I)4H	217.5725	-3.789	18886.780	0.5	D7 (5D)2P	93988.170	2.5	48P(5G)4G
216.4615	-1.573	26055.423	2.5	D6S (3G)4G	72238.513	2.5	4P (3D)4F	217.6104	-4.132	85048.602	1.5	4D (5D)4D	39109.307	0.5	4P (5D)6D
216.4895	-4.805	25787.598	1.5	D6S (3P)2P	71964.710	2.5	4P (3D)4P	217.6155	-3.353	49100.976	0.5	D6S (3F)4F	95039.200	1.5	4P (3P)2P
216.5105	-3.367	48039.090	2.5	D7 (5D)2D	94211.739	2.5	4SP(5P)4P	217.6322	-2.037	21581.638	4.5	D6S (3H)4H	67516.332	5.5	4P (3G)2H
216.5232	-4.054	20830.582	2.5	D6S (3P)4F	67000.517	2.5	4P (5F)2F	217.6501	-0.889	31811.822	2.5	D7 (5D)2F	77742.730	2.5	4P (1D)2F
216.5269	-4.435	50187.813	3.5	D6S (3F)4F	96356.960	3.5	4SP(3G)2F	217.6564	-4.685	57411.065	2.5	D5S2(7S)4P	103340.640	3.5	4F(5D)3[4]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
217.6782	-3.905	84938.180	1.5	4D (5D)6G	39013.206	1.5	4F (5D)6D	218.7893	-2.584	50075.910	1.5	D6S (3F)4F
217.6793	-4.973	57493.321	1.5	D5S2(7S)4F	103418.080	0.5	4F(5D)3[0]	218.7896	-3.617	20830.582	2.5	D6S (3P)4P
217.7029	-4.038	50075.910	1.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	218.8473	-6.846	16369.360	3.5	D7 (5D)2G
217.7032	-1.517	18886.780	0.5	D7 (5D)2P	64806.487	0.5	4F (3P)2P	218.8819	-3.389	20340.300	5.5	D7 (5D)2H
217.7526	-4.252	26055.423	2.5	D6S (3G)4G	71964.710	2.5	4F (3D)4P	218.9033	-1.498	15844.650	4.5	D7 (5D)2G
217.7542	-2.214	26352.766	4.5	D6S (3H)2H	72261.729	5.5	4F (1G)2H	218.9524	-1.514	84326.912	4.5	4D (5D)6P
217.7748	-2.458	50157.452	4.5	D6S (3F)4F	96062.060	5.5	4SP(3G)2H	218.9578	-4.656	20805.770	4.5	D7 (5D)2H
217.8063	-4.993	57493.321	1.5	D5S2(7S)4P	103391.290	1.5	4F(5D)3[12]	218.9707	-1.711	38214.507	1.5	D6S (1D)2D
217.8849	-4.323	15844.650	4.5	D7 (5D)2G	61726.077	3.5	4F (3P)4D	218.9715	-3.155	47674.721	1.5	D7 (5D)2D
217.9499	-2.242	84527.778	4.5	4D (5D)6G	38660.043	3.5	4F (3D)6D	218.9857	-2.640	87985.628	2.5	4D (5D)4P
217.9555	-2.709	20805.770	4.5	D7 (5D)2H	66672.334	3.5	4F (3G)4F	219.0125	-3.617	50212.826	2.5	D6S (3P)4P
217.9851	-2.971	20516.960	2.5	D7 (5D)2D	66377.283	3.5	4F (3G)4F	219.0462	-3.264	49100.976	0.5	D6S (3P)4P
217.9884	-1.091	108804.667	3.5	5S (3D)4D	62945.038	3.5	4F (3F)4D	219.0744	-4.524	57493.321	1.5	D5S2(7S)4P
217.9924	-4.631	57578.484	0.5	D5S2(7S)4P	103437.280	0.5	4F(5D)3[11]	219.1159	-4.971	57411.065	2.5	D5S2(7S)4P
217.9978	-3.007	84870.863	2.5	4D (5D)4D	39013.206	1.5	4F (5D)6D	219.1458	-4.738	57411.065	2.5	D5S2(7S)4P
218.0204	-4.402	50142.786	2.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	219.1662	-4.697	57411.065	2.5	D5S2(7S)4P
218.0260	-2.204	84710.685	3.5	4D (5D)6G	38588.958	2.5	4F (5D)6D	219.1984	-0.319	84266.556	3.5	4D (5D)6P
218.0735	-8.198	20830.582	2.5	D6S (3P)4P	66672.334	3.5	4F (3G)4H	219.2691	-3.099	26932.748	0.5	D6S (3P)2P
218.0781	-4.406	57493.321	1.5	D5S2(7S)4P	103334.100	2.5	4SP(3D)2F	219.3051	-3.255	87985.628	2.5	4D (5D)2H
218.0920	-3.005	84296.830	5.5	4D (5D)6G	38458.981	4.5	4F (5D)6D	219.3668	-3.512	27620.412	2.5	D6S (3F)2F
218.1216	-2.507	84844.834	2.5	4D (5D)6G	39013.206	1.5	4F (5D)6D	219.3962	-2.003	84242.370	1.5	4D (5D)6P
218.1348	-3.294	84938.180	1.5	4D (5D)6G	39109.307	0.5	4F (5D)6D	219.4159	-2.764	20516.960	2.5	D7 (5D)2D
218.1372	-3.001	27314.922	3.5	D6S (3F)2F	73143.288	3.5	4F (1G)2G	219.4324	-4.557	25428.784	5.5	D6S (3G)4G
218.1473	-2.090	84685.198	3.5	4D (5D)4D	38858.958	2.5	4F (5D)6D	219.4863	-2.867	20830.582	2.5	D6S (3P)4P
218.1661	-2.636	88157.116	1.5	4D (5D)4F	42334.822	2.5	4F (5D)6F	219.5117	-4.648	57493.321	1.5	D5S2(7S)4P
218.2347	-0.814	50187.813	3.5	D6S (3F)4F	95995.690	2.5	4SP(5P)4D	219.5135	-4.642	57411.065	2.5	D5S2(7S)4P
218.2362	-0.010	84266.556	3.5	4D (5D)6P	38458.981	4.5	4F (5D)6D	219.5226	-4.304	49506.934	1.5	D6S (3P)4P
218.2615	-5.980	16369.360	3.5	D7 (5D)2G	62171.615	3.5	4SP(7S)6F	219.5439	-3.604	54273.641	4.5	D5S2(7S)4G
218.2663	-4.672	48039.090	2.5	D7 (5D)2D	93840.340	1.5	4SP(5D)6D	219.5535	-2.531	54273.641	4.5	D5S2(7S)4G
218.3110	-3.923	48039.090	2.5	D7 (5D)2D	93830.979	2.5	4SP(5D)6D	219.5559	-2.598	49506.934	1.5	D6S (3P)4P
218.3259	-2.972	16369.360	3.5	D7 (5D)2G	62158.110	4.5	4F (3F)4F	219.5587	-1.807	108804.667	3.5	5S (3D)4D
218.3308	-2.917	88189.030	0.5	4D (5D)4F	42401.302	1.5	4F (5D)6F	219.5613	-4.731	57411.065	2.5	D5S2(7S)4P
218.3450	-2.497	23317.633	2.5	D5S2(7S)6S	69102.380	2.5	4SP(5G)4H	219.5621	-4.966	57493.321	1.5	D5S2(7S)4P
218.3522	-2.237	20805.770	4.5	D7 (5D)2H	66589.008	4.5	4F (3G)4H	219.5676	-3.048	54870.528	2.5	D6S (3F)2F
218.3540	-2.275	50212.826	2.5	D6S (3P)4P	95995.690	2.5	4SP(5P)4D	219.5901	-3.618	54283.220	3.5	D5S2(7S)4G
218.3572	-3.402	16369.360	3.5	D7 (5D)2G	62151.561	2.5	4F (3F)4F	219.5913	-2.718	54232.195	5.5	D5S2(7S)4G
218.3574	-3.848	50075.910	1.5	D6S (3F)4F	95858.050	1.5	4SP(5P)4D	219.6012	-1.250	27620.412	2.5	D6S (3F)2F
218.3578	-4.611	20830.582	2.5	D6S (3P)4P	66612.656	1.5	4F (3G)4F	219.7210	-1.471	54902.315	1.5	D6S (3P)2P
218.3790	-2.983	26352.766	4.5	D6S (3H)2H	72130.390	4.5	4F (1G)2G	219.7263	-2.840	26932.748	0.5	D6S (3P)2P
218.3836	-1.108	27314.922	3.5	D6S (3F)2F	73091.590	4.5	4F (1G)2G	219.7302	-1.393	54904.222	3.5	D6S (3F)2F
218.4028	-3.640	57411.065	2.5	D5S2(7S)4P	103183.700	3.5	4SP(3D)2F	219.7914	-3.556	54273.641	4.5	D5S2(7S)4G
218.4696	-4.340	13904.824	0.5	D7 (5D)4F	59663.456	1.5	4F (3P)4S	219.8273	-4.684	57411.065	2.5	D5S2(7S)4P
218.4831	-2.605	88157.116	1.5	4D (5D)4F	42401.302	1.5	4F (5D)6F	219.8377	-2.673	54283.220	3.5	D5S2(7S)4G
218.5146	-2.486	87985.628	2.5	4D (5D)4P	42439.822	0.5	4F (5D)6F	219.8665	-0.398	84326.912	2.5	4D (5D)6P
218.5410	-2.893	31999.048	3.5	D7 (5D)2F	77742.730	2.5	4F (1D)2F	219.8964	-3.816	21812.035	1.5	D6S (3P)4P
218.5464	-3.214	15844.650	4.5	D7 (5D)2G	42237.033	3.5	4F (5D)6F	219.9107	-4.914	57493.321	1.5	D5S2(7S)4P
218.5588	-2.214	15844.650	4.5	D7 (5D)2G	61587.214	5.5	4F (3H)4I	219.9603	-3.230	48039.090	2.5	D7 (5D)2D
218.6219	-2.313	18360.646	1.5	D7 (5D)2P	73054.881	2.5	4F (1G)2F	220.0285	-0.969	27620.412	2.5	D6S (3F)2F
218.6512	-3.076	47674.721	1.5	D7 (5D)2D	93395.360	2.5	4F (3F)4F	220.0937	-3.380	54232.195	5.5	D5S2(7S)4G
218.6672	-3.217	88157.116	1.5	4D (5D)4P	42439.822	0.5	4F (5D)6F	220.1259	-2.708	20516.960	2.5	D7 (5D)2D
218.6769	-2.240	50142.786	2.5	D6S (3F)4F	95858.050	1.5	4SP(5P)4D	220.1415	-0.661	84424.370	1.5	4D (5D)6P
218.6842	-1.989	16369.360	3.5	D7 (5D)2G	62083.108	4.5	4F (3H)2D	220.1587	-0.377	84266.556	3.5	4D (5D)6P
218.7296	-0.832	38164.194	2.5	D6S (1D)2D	83868.450	2.5	4F (1F)2D	220.2163	-2.957	27620.412	2.5	D6S (3F)2F
218.7441	-1.276	27314.922	3.5	D6S (3F)2F	73016.147	3.5	4F (1G)2F	220.2947	-5.000	54273.641	4.5	D5S2(7S)4G
218.7483	-4.946	44929.550	2.5	D6S (1F)2F	90629.902	1.5	4F (3P)4S	220.3227	-2.651	49506.934	1.5	D6S (3P)4P
218.7683	-1.609	16369.360	3.5	D7 (5D)2G	62065.521	3.5	4F (3F)4F	220.3412	-3.258	54283.220	3.5	D5S2(7S)4G
218.7860	-1.713	21308.040	1.5	D7 (5D)2D	67000.517	2.5	4F (3F)2D	220.3724	-4.172	22637.205	4.5	D6S (3F)4F

WL (Å)	E	M	J	Label	LOGGF	WL (Å)	E	M	J	Label	LOGGF	WL (Å)	E	M	J	Label	LOGGF	WL (Å)	E	M	J	Label	LOGGF			
220.3807	-3.926			4SP(7S)6P		221.9169	-2.761			4P2(7F)8P		62171.615	3.5			4SP(7S)6P		221.9169	-2.761			4P2(7F)8P				
220.3904	-2.675			4SP(7S)6P		221.9203	-4.720			5D (5D)4G		60402.342	2.5			4P (3P)4P		221.9203	-4.720			5D (5D)4G				
220.4057	-2.873			5D (5D)2G		221.9412	-3.968			61726.077	3.5	4P (3F)4D		15844.650	4.5	D7	5D (5D)2G		221.9412	-3.968			61726.077	3.5	4P (3F)4D	
220.4079	-2.625			5D (5D)2D		221.9655	-3.814			57411.065	2.5	D5S2(7S)4P		27314.922	3.5	D5S2(7S)4P		221.9655	-3.814			57411.065	2.5	D5S2(7S)4P		
220.4105	-3.094			5D (5D)2H		221.9701	-1.415			27314.922	3.5	D6S (3F)2F		21430.359	5.5	D6S (3H)4H		221.9701	-1.415			27314.922	3.5	D6S (3F)2F		
220.4272	-4.107			5D (5D)2G		221.9894	-0.534			21430.359	5.5	D6S (3H)4H		27620.412	2.5	D6S (3F)2F		221.9894	-0.534			21430.359	5.5	D6S (3H)4H		
220.5018	-1.332			5D (5D)2H		221.9978	-2.314			27620.412	2.5	D6S (3F)2F		20340.300	5.5	D7	5D (5D)2H		221.9978	-2.314			27620.412	2.5	D6S (3F)2F	
220.5078	-2.039			5D (5D)2F		222.0381	-0.586			20340.300	5.5	D7	5D (5D)2H	222.0381	-0.586			222.0381	-0.586			20340.300	5.5	D7	5D (5D)2H	
220.5483	-2.168			5D (5D)4P		222.0433	-0.608			84131.563	0.5	4D (5D)6D		47674.721	1.5	D7	5D (5D)6D		222.0433	-0.608			84131.563	0.5	4D (5D)6D	
220.6084	-0.327			5D (5D)6P		222.0512	-1.393			105414.180	2.5	4D (3F)2D		47674.721	1.5	D7	5D (5D)6D		222.0512	-1.393			105414.180	2.5	4D (3F)2D	
220.6150	-0.223			5D (5D)6P		222.0947	-3.578			105414.180	2.5	4D (3F)2D		47674.721	1.5	D7	5D (5D)6D		222.0947	-3.578			105414.180	2.5	4D (3F)2D	
220.6224	-3.660			5D (5D)2G		222.1167	-0.612			21581.638	4.5	D6S (3H)4H		47674.721	1.5	D7	5D (5D)6D		222.1167	-0.612			21581.638	4.5	D6S (3H)4H	
220.6592	-1.900			5D (5D)2H		222.1376	-2.618			27620.412	2.5	D6S (3H)4H		21430.359	5.5	D6S (3F)2F		222.1376	-2.618			27620.412	2.5	D6S (3H)4H		
220.6595	-2.728			5D (5D)2F		222.2453	-1.363			21430.359	5.5	D6S (3H)4H		21430.359	5.5	D6S (3F)2F		222.2453	-1.363			21430.359	5.5	D6S (3H)4H		
220.7334	-3.226			5D (5D)2D		222.2674	-0.922			83990.063	1.5	4D (5D)6D		21430.359	5.5	D6S (3F)2F		222.2674	-0.922			83990.063	1.5	4D (5D)6D		
220.7373	-4.612			5D (5D)2D		222.2750	-3.341			47674.721	1.5	D7 (5D)2D		83990.063	1.5	4D (5D)6D		222.2750	-3.341			47674.721	1.5	D7 (5D)2D		
220.7781	-2.719			5D (5D)2P		222.2875	-2.475			47674.721	1.5	D7 (5D)2D		83990.063	1.5	4D (5D)6D		222.2875	-2.475			47674.721	1.5	D7 (5D)2D		
220.8408	-0.127			5D (5D)6D		222.3004	-1.987			50075.910	1.5	D6S (3F)4F		83990.063	1.5	4D (5D)6D		222.3004	-1.987			50075.910	1.5	D6S (3F)4F		
220.9034	-0.048			5D (5D)6D		222.3380	-2.952			15844.650	4.5	D7 (5D)2G		83990.063	1.5	4D (5D)6D		222.3380	-2.952			15844.650	4.5	D7 (5D)2G		
220.9369	-0.750			5D (5D)2H		222.3467	-3.513			44929.550	2.5	D6S (1F)2F		83990.063	1.5	4D (5D)6D		222.3467	-3.513			44929.550	2.5	D6S (1F)2F		
220.9757	-0.750			5D (5D)2H		222.3487	-0.635			21711.917	3.5	D6S (3H)4H		83990.063	1.5	4D (5D)6D		222.3487	-0.635			21711.917	3.5	D6S (3H)4H		
220.9928	-3.347			5D (5D)2H		222.3703	-1.580			57493.321	1.5	D5S2(7S)4P		83990.063	1.5	4D (5D)6D		222.3703	-1.580			57493.321	1.5	D5S2(7S)4P		
221.0124	-2.683			5D (5D)2H		222.3716	-4.140			57493.321	1.5	D5S2(7S)4P		83990.063	1.5	4D (5D)6D		222.3716	-4.140			57493.321	1.5	D5S2(7S)4P		
221.0503	-2.823			5D (5D)2D		222.4287	-3.545			83812.316	2.5	4D (5D)6D		83990.063	1.5	4D (5D)6D		222.4287	-3.545			83812.316	2.5	4D (5D)6D		
221.0918	-4.017			5D (5D)2D		222.4602	-0.831			21308.040	1.5	D7 (5D)2D		83990.063	1.5	4D (5D)6D		222.4602	-0.831			21308.040	1.5	D7 (5D)2D		
221.1062	-3.050			5D (5D)2D		222.4653	-2.101			50142.786	2.5	D6S (3F)4F		83990.063	1.5	4D (5D)6D		222.4653	-2.101			50142.786	2.5	D6S (3F)4F		
221.1094	-1.081			5D (5D)2D		222.4972	-3.437			49100.976	0.5	D6S (3F)4F		83990.063	1.5	4D (5D)6D		222.4972	-3.437			49100.976	0.5	D6S (3F)4F		
221.1117	-1.580			5D (5D)2D		222.5205	-4.377			57578.484	0.5	4D (3F)2H		83990.063	1.5	4D (5D)6D		222.5205	-4.377			57578.484	0.5	4D (3F)2H		
221.1258	-4.157			5D (5D)2D		222.5224	-4.478			57578.484	0.5	4D (3F)2H		83990.063	1.5	4D (5D)6D		222.5224	-4.478			57578.484	0.5	4D (3F)2H		
221.1359	-4.157			5D (5D)2D		222.5310	-2.666			27314.922	3.5	D6S (3F)2F		83990.063	1.5	4D (5D)6D		222.5310	-2.666			27314.922	3.5	D6S (3F)2F		
221.1757	-4.617			5D (5D)2P		222.5379	-2.454			50157.452	4.5	D6S (3F)4F		83990.063	1.5	4D (5D)6D		222.5379	-2.454			50157.452	4.5	D6S (3F)4F		
221.2007	-3.691			5D (5D)2P		222.5561	-3.757			88157.116	1.5	4D (5D)4F		83990.063	1.5	4D (5D)6D		222.5561	-3.757			88157.116	1.5	4D (5D)4F		
221.2168	-3.161			5D (5D)2P		222.5868	-2.900			18360.646	1.5	D7 (5D)2P		83990.063	1.5	4D (5D)6D		222.5868	-2.900			18360.646	1.5	D7 (5D)2P		
221.2265	-3.760			5D (5D)2P		222.6272	-1.849			54904.222	3.5	D6S (3F)2F		83990.063	1.5	4D (5D)6D		222.6272	-1.849			54904.222	3.5	D6S (3F)2F		
221.2209	-3.141			5D (5D)2G		222.6315	-3.207			50142.786	2.5	D6S (3F)4F		83990.063	1.5	4D (5D)6D		222.6315	-3.207			50142.786	2.5	D6S (3F)4F		
221.2333	-3.976			5D (5D)2G		222.6528	-3.420			105524.461	4.5	4D (3F)4H		83990.063	1.5	4D (5D)6D		222.6528	-3.420			105524.461	4.5	4D (3F)4H		
221.2770	-3.503			5D (5D)2G		222.6657	-2.288			50142.786	2.5	D6S (3F)4F		83990.063	1.5	4D (5D)6D		222.6657	-2.288			50142.786	2.5	D6S (3F)4F		
221.3655	-0.344			5D (5D)2G		222.6884	-4.525			50187.813	3.5	D6S (3F)4F		83990.063	1.5	4D (5D)6D		222.6884	-4.525			50187.813	3.5	D6S (3F)4F		
221.3726	-1.414			5D (5D)2G		222.6962	-2.160			20805.770	4.5	D7 (5D)2H		83990.063	1.5	4D (5D)6D		222.6962	-2.160			20805.770	4.5	D7 (5D)2H		
221.4038	-0.026			5D (5D)2G		222.7041	-4.529			105291.010	3.5	4D (3F)4G		83990.063	1.5	4D (5D)6D		222.7041	-4.529			105291.010	3.5	4D (3F)4G		
221.4114	-1.032			5D (5D)2G		222.7183	-1.332			25428.784	5.5	D6S (3H)4H		83990.063	1.5	4D (5D)6D		222.7183	-1.332			25428.784	5.5	D6S (3H)4H		
221.4405	-2.046			5D (5D)2G		222.7378	-1.439			21581.638	4.5	D6S (3H)4H		83990.063	1.5	4D (5D)6D		222.7378	-1.439			21581.638	4.5	D6S (3H)4H		
221.4480	-3.096			5D (5D)2G		222.7434	-0.381			83990.063	1.5	4D (5D)6D		83990.063	1.5	4D (5D)6D		222.7434	-0.381			83990.063	1.5	4D (5D)6D		
221.4588	-3.265			5D (5D)2G		222.7616	-1.567			105763.270	5.5	4D (3F)2H		83990.063	1.5	4D (5D)6D		222.7616	-1.567			105763.270	5.5	4D (3F)2H		
221.4747	-2.390			5D (5D)2G		222.7686	-2.210																			

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
223.0136	-3.147	50212.826	2.5	D6S (3P)4P	95039.200	1.5	4P (3P)2P	223.9818	-1.309	105589.420	3.5	4D (3F)4H
223.0628	-3.112	26170.181	5.5	D6S (3H)2H	70986.677	6.5	4P (11)2K	224.0090	-7.348	7955.299	3.5	D6S (5D)4D
223.0679	-2.641	27314.922	3.5	D6S (3F)2F	72130.390	4.5	4P (1G)2H	224.0214	-3.320	50075.910	1.5	D6S (3F)4F
223.0932	-2.762	21711.917	3.5	D6S (3H)4H	66522.304	2.5	4P (3G)4F	224.0298	-4.596	54275.637	2.5	D5S2(7S)4G
223.1419	-4.257	21812.055	1.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F	224.0346	-3.122	667.683	2.5	D6S (5D)6D
223.1494	-0.118	83812.316	2.5	4D (5D)6D	39013.206	1.5	4P (3G)6D	224.0448	-5.491	16369.360	3.5	D7 (5D)2G
223.1559	-2.760	44929.550	2.5	D6S (1F)2F	89727.342	2.5	4P (3F)4G	224.0547	-1.964	27620.412	2.5	D6S (3F)2F
223.1666	-2.315	21581.638	4.5	D6S (3H)4H	66377.283	3.5	4P (3G)4F	224.0996	-4.538	50075.910	1.5	D6S (3F)4F
223.2073	-1.387	16369.360	3.5	D7 (5D)2G	61156.835	3.5	4P (3H)4H	224.1034	-4.234	94685.090	2.5	4SP(5D)6P
223.2098	-4.228	106836.000	3.5	4P2(7F)8P	62049.025	2.5	4SP(7F)6P	224.1167	-3.242	50157.452	4.5	D6S (3F)4F
223.2337	-3.739	105589.420	3.5	4D (3F)4H	60807.230	4.5	4P (3H)4G	224.1379	-2.479	18360.646	1.5	D7 (5D)2P
223.2406	-4.209	15844.650	4.5	D7 (5D)2G	60625.449	0.5	4P (3H)4G	224.1421	-0.269	83459.670	1.5	4D (5D)6F
223.2509	-2.922	47674.721	1.5	D7 (5D)2D	92453.460	0.5	4P (3F)4D	224.1458	-2.602	105589.420	3.5	4D (3F)4H
223.2732	-2.635	20805.770	4.5	D7 (5D)2H	65580.041	5.5	4P (3G)4G	224.1487	-3.584	47674.721	1.5	D7 (5D)2D
223.2775	-1.586	105398.852	5.5	4D (3F)4H	60625.449	5.5	4P (3H)4G	224.1639	-3.479	50142.786	2.5	D6S (3F)4F
223.2826	-3.848	108648.695	6.5	5S (11)2I	63876.317	5.5	4P (3F)4G	224.1823	-2.263	20152.960	2.5	D7 (5D)2D
223.2933	-2.655	21308.040	1.5	D7 (5D)2D	66078.269	2.5	4P (3G)4G	224.1878	0.130	105398.852	5.5	4D (3F)4H
223.3194	-3.148	31364.440	1.5	D6S (3D)4D	76129.446	1.5	4P (1S)2P	224.2089	-2.538	16369.360	3.5	D7 (5D)2G
223.3195	-2.242	54870.528	2.5	D6S (3F)2F	99635.520	3.5	4SP(3G)2G	224.2295	-4.783	60445.275	2.5	D5S2(7S)4D
223.3325	-2.929	108804.667	3.5	5S (3D)4D	64040.886	3.5	4P (3F)4G	224.2342	-1.869	21430.359	5.5	D6S (3H)4H
223.3394	-3.783	31368.450	0.5	D6S (3D)4D	76129.446	1.5	4P (1S)2P	224.2547	-3.275	18886.780	0.5	D7 (5D)2P
223.3531	-4.826	60270.339	3.5	D5S2(7S)4D	105028.600	3.5	4SP(31)4H	224.2694	-4.223	50187.813	3.5	D6S (3F)4F
223.3738	-4.383	108630.429	5.5	5S (11)2I	63876.317	5.5	4P (3F)4G	224.3063	-3.995	88189.030	0.5	4D (5D)4P
223.3753	-4.799	0.000	4.5	D6S (5D)6D	44753.799	3.5	4P (5D)4F	224.3082	0.117	105524.461	4.5	4D (3F)4H
223.3917	-0.486	20805.770	4.5	D7 (5D)2H	65556.280	4.5	4P (3H)2H	224.3405	-2.125	105398.852	5.5	4D (3F)4H
223.3993	-1.945	54904.222	3.5	D6S (3F)2F	99635.520	3.5	4SP(3G)2G	224.3576	-3.030	50142.786	2.5	D6S (3F)4F
223.4091	-2.209	87985.628	2.5	4D (5D)4P	43238.586	2.5	4P (5D)6P	224.3579	-2.598	28085.770	4.5	D7 (5D)2D
223.4367	-2.552	31387.948	2.5	D6S (3D)4D	76129.446	1.5	4P (1S)2P	224.3864	-2.349	58631.531	4.5	D6S (1G)2G
223.4474	-3.027	49100.976	0.5	D6S (3F)4F	93840.340	1.5	4SP(5D)6D	224.3881	-3.360	2837.950	2.5	D7 (5D)4F
223.4877	-2.074	54904.222	3.5	D6S (3F)2F	72352.024	3.5	4P (3D)4F	224.4372	-3.708	25981.629	3.5	D6S (3G)4G
223.5170	-4.109	16369.360	3.5	D7 (5D)2G	61093.413	2.5	4P (3F)4P	224.4396	-0.477	47674.721	1.5	D7 (5D)2D
223.5239	-4.437	16369.360	3.5	D7 (5D)2G	61093.413	2.5	4P (3F)4P	224.4610	-2.959	2430.097	3.5	D7 (5D)4F
223.5523	-2.078	25805.328	4.5	D6S (3G)4G	70523.706	3.5	4P (3G)2G	224.4670	-3.187	88157.116	1.5	4D (5D)4P
223.5579	-3.654	108804.667	3.5	5S (3D)4D	64087.418	2.5	4P (3H)4G	224.4728	-2.341	105524.461	4.5	4D (3F)4H
223.5580	-1.321	105524.461	4.5	4D (3F)4H	60807.230	4.5	4P (3G)4F	224.5119	-2.623	31387.948	2.5	D6S (3D)4D
223.5929	-3.174	21812.055	1.5	D6S (3F)4P	94211.739	2.5	4SP(5P)4P	224.5165	-2.244	50212.826	2.5	D6S (3F)2F
223.6202	-2.570	49506.934	1.5	D6S (3F)4P	65222.304	2.5	4P (3G)4F	224.5261	-2.733	49506.934	1.5	D6S (3F)4P
223.6688	-3.110	384.790	3.5	D6S (5D)6D	45079.879	2.5	4P (5D)4F	224.5500	0.302	82798.677	4.5	4D (5D)6F
223.7248	-1.346	47674.721	1.5	D7 (5D)2D	92358.610	1.5	4SP(5G)4F	224.5570	-2.472	108804.667	3.5	5S (3D)4D
223.7361	-3.604	108630.429	5.5	5S (11)2I	63948.790	4.5	4P (3F)4G	224.5614	-2.917	58666.258	3.5	D6S (1G)2G
223.7568	-4.697	83136.487	3.5	4D (5D)6F	38458.981	3.5	4P (5H)6D	224.5926	-1.885	105398.852	5.5	4D (3F)4H
223.7745	-4.322	105630.750	2.5	5D (5D)4G	60956.981	3.5	4P (3H)4G	224.6026	-3.008	25805.328	4.5	D6S (3G)4G
223.7808	-3.773	18886.780	0.5	D7 (5D)2P	63559.488	0.5	4P (3F)4D	224.6059	-4.158	3117.461	1.5	D7 (5D)4F
223.7824	-7.411	16369.360	3.5	D7 (5D)2G	61041.748	2.5	4P (3H)4G	224.6632	-4.962	50187.813	3.5	D6S (3F)4F
223.7899	-0.933	33466.463	4.5	D6S (1G)2G	78137.364	3.5	4P (1D)2F	224.6696	-0.812	105589.420	3.5	4D (3F)4H
223.8225	-2.663	58666.258	3.5	D6S (1G)2G	103334.100	2.5	4SP(3D)2F	224.6916	-1.225	20340.300	5.5	D7 (5D)2H
223.8176	-3.814	21711.917	3.5	D6S (3H)4H	66377.283	3.5	4P (3G)4F	224.7109	-1.569	50212.826	2.5	D6S (3F)4P
223.8275	-0.191	105288.847	6.5	4P2(7F)8P	62171.615	3.5	4SP(7F)6P	224.7314	-2.001	105291.010	3.5	4D (3F)4G
223.8282	-4.178	50075.910	1.5	D6S (3F)4F	94739.170	1.5	4SP(5P)4P	224.7442	-4.816	49506.934	1.5	D6S (3P)4P
223.8631	-0.227	48039.090	2.5	D7 (5D)2D	92329.890	2.5	4P (3H)4G					
223.8687	-2.609	47674.721	1.5	D7 (5D)2D	96625.449	5.5	4P (3H)4G					
223.8957	-3.896	27314.922	3.5	D6S (3F)2F	71964.710	2.5	4P (3D)4P					
223.9039	-0.168	83308.194	2.5	4D (5D)6F	38660.043	3.5	4P (5D)6D					
223.9332	-4.366	105449.540	3.5	5D (5D)4G	60807.230	4.5	4P (3H)4G					
223.9606	-2.400	105524.461	4.5	4D (3F)4H	60887.598	5.5	4P (3H)4H					
223.9643	-1.601	33501.233	3.5	D6S (1G)2G	78137.364	3.5	4P (1D)2F					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
224.7684	0.273	83136.487	3.5	4D (5D)6F	38660.043	3.5	4P (5D)6D	225.6152	-3.189	86710.837	1.5	4D (5D)4F
224.7896	-1.976	50212.826	2.5	D6S (3P)4F	94685.090	2.5	4SP(5D)6F	225.6438	-1.454	20805.770	4.5	D7 (3D)2H
224.7965	-3.970	104873.230	3.5	5D (5D)4D	60402.342	2.5	4P (3P)4P	225.6481	-4.112	104705.420	3.5	5D (5D)6D
224.8089	-4.603	18360.646	1.5	D7 (5D)2P	62829.075	0.5	4P (3P)4D	225.6558	-1.132	105291.010	3.5	4D (3F)4G
224.8097	-1.922	26055.423	2.5	D6S (3G)4G	70523.706	3.5	4P (3G)2G	225.6560	-3.189	86421.633	3.5	4D (5D)4F
224.8647	-2.041	105414.180	2.5	4D (3F)4G	60956.781	3.5	4P (3H)4G	225.6595	-4.796	21711.917	3.5	D6S (3H)4F
224.8957	-1.493	105288.847	6.5	4D (3F)4F	60837.569	6.5	4P (3H)4H	225.6683	-0.425	83308.194	2.5	4D (5D)8F
224.9060	0.106	83308.194	2.5	4D (5D)6F	38858.958	2.5	4P (5D)6D	225.6710	-1.319	48039.090	2.5	D7 (5D)2D
224.9060	-0.323	83558.540	0.5	4D (5D)6F	39109.307	0.5	4P (5D)6D	225.7390	-3.492	58666.258	3.5	D6S (1G)2G
224.9200	-0.096	0.000	4.5	D6S (5D)6D	44046.878	3.5	4P (5D)4D	225.7703	-4.449	20830.582	2.5	D6S (3P)4F
224.9624	-0.905	83459.670	1.5	4D (3F)4G	60625.449	5.5	4P (3H)4G	225.7783	-0.130	83136.487	3.5	4D (5D)6F
224.9636	-4.508	16369.360	3.5	D7 (5D)2G	60807.230	4.5	4P (3H)4G	225.7921	-3.430	54063.459	0.5	D6S (3P)2P
224.9700	-2.651	21812.055	1.5	D6S (3P)4F	66248.660	0.5	4P (3P)2S	225.8049	-4.079	3117.461	1.5	D7 (5D)4F
224.9700	-2.651	21812.055	1.5	D6S (3P)4F	61156.835	5.5	4P (3H)4H	225.8115	-1.920	86710.837	1.5	4D (5D)4F
224.9903	-1.341	105589.420	3.5	4D (3F)4H	66012.750	4.5	4P (3D)2F	225.8295	-1.076	105155.090	4.5	4D (3F)4G
224.9931	-4.116	31483.176	3.5	D6S (3D)4D	75915.215	2.5	4P (3D)2F	225.8360	-4.411	21432.055	1.5	D6S (3P)4F
224.9978	-2.582	21581.638	4.5	D6S (3H)4H	60402.342	2.5	4P (3G)4F	225.8387	-2.264	21812.055	1.5	D6S (3P)4F
225.0246	-4.846	104828.160	2.5	5D (5D)6D	60402.342	2.5	4P (3P)4P	225.8564	-2.017	54273.641	4.5	D5S2(7S)4G
225.0408	-2.704	27620.412	2.5	D6S (3F)2F	72043.026	1.5	4P (3D)4F	225.8666	-4.687	54275.637	2.5	D5S2(7S)4G
225.0936	-1.842	667.683	2.5	D6S (5D)6D	45079.879	2.5	4P (5D)4F	225.8813	-1.199	105414.180	2.5	4D (3F)4G
225.1077	-0.824	105398.852	5.5	4D (3F)4H	60989.444	4.5	4P (3H)4H	225.8865	-1.032	105063.550	5.5	4D (3F)4G
225.1159	-4.346	105449.540	3.5	5D (5D)4G	61041.748	2.5	4P (3H)4G	225.8965	-4.026	105211.140	4.5	5D (5D)4G
225.1491	-3.101	105288.847	6.5	4D (3F)4H	60887.598	5.5	4P (3H)4H	225.9053	-2.807	54283.220	3.5	D5S2(7S)4G
225.1556	-2.234	384.790	3.5	D6S (5D)6D	44784.761	2.5	4P (5D)4D	225.9155	-1.655	105763.270	5.5	4D (3F)2H
225.1824	0.616	82853.658	5.5	4D (5D)6F	38458.981	4.5	4P (5D)6D	225.9225	-0.777	105291.010	3.5	4D (3F)4G
225.2247	-3.480	108804.667	3.5	5S (3D)4D	64425.408	2.5	4P (3F)2F	225.9526	-3.405	48039.090	2.5	D7 (5D)2D
225.2748	-5.325	667.683	2.5	D6S (5D)6D	45044.168	1.5	4P (5D)4D	225.9569	-1.828	23031.300	1.5	D6S (3F)4F
225.2772	-3.771	86710.837	1.5	4D (5D)4F	42334.822	2.5	4P (5D)6F	225.9623	-1.220	33501.253	3.5	D6S (1G)2G
225.2953	-0.788	105414.180	2.5	4D (3F)4G	61041.748	2.5	4P (3H)4G	225.9801	-4.826	104863.430	5.5	5D (5D)4G
225.3127	-1.582	384.790	3.5	D6S (3H)4H	44753.799	3.5	4P (5D)4F	225.9920	-2.589	105763.270	5.5	4D (3F)2H
225.3198	-0.885	105524.461	4.5	4D (3F)4H	61156.835	3.5	4P (3H)4H	225.9952	-2.818	48039.090	2.5	D7 (5D)2D
225.3262	-2.237	21711.917	3.5	D6S (3H)4H	66078.269	2.5	4P (3G)4G	226.0081	-1.554	54275.637	2.5	D5S2(7S)4G
225.3348	-2.740	87985.628	2.5	4D (5D)4P	43620.957	1.5	4P (5D)6P	226.0237	-3.217	977.053	0.5	D6S (5D)6D
225.3448	-3.148	86599.738	2.5	4D (5D)4F	98596.650	4.5	4SP(5D)4F	226.0415	-1.265	49100.976	0.5	D6S (3F)4P
225.4075	-0.699	83459.670	1.5	4D (5D)6F	39109.307	0.5	4P (5D)6F	226.0624	-2.438	105063.550	5.5	4D (3F)4G
225.4109	-2.147	21581.638	4.5	D6S (3H)4H	65931.334	3.5	4P (3G)4G	226.0750	-2.955	21711.917	3.5	D6S (3H)4H
225.4156	-3.589	58631.531	4.5	D6S (1G)2G	102980.300	5.5	4SP(3I)4I	226.0860	-2.019	862.613	1.5	D6S (5D)6D
225.4202	-0.522	105155.090	4.5	4D (3F)4G	60807.230	4.5	4P (3H)4G	226.1079	-2.688	31387.948	2.5	D6S (5D)6D
225.4383	-4.228	27620.412	2.5	D6S (3F)2F	71964.710	2.5	4P (3D)4P	226.1600	-4.726	22409.852	0.5	D6S (3P)4P
225.4394	-7.804	7955.299	3.5	D6S (5D)4D	52299.390	2.5	4SP(7S)8P	226.1824	-1.652	86599.738	2.5	4D (5D)4F
225.4406	-2.966	862.613	1.5	D6S (5D)6D	45206.450	0.5	4P (5D)4D	226.1830	-0.577	105155.090	4.5	4D (3F)4G
225.4883	-2.109	22939.358	2.5	D6S (3F)4F	67273.826	1.5	4P (3P)2D	226.1866	-1.613	105291.010	3.5	4D (3F)4G
225.4895	-0.507	105291.010	3.5	4D (3F)4G	60956.781	3.5	4P (3H)4G	226.2226	-7.924	8391.938	2.5	D6S (5D)4D
225.4937	-3.952	49506.934	1.5	D6S (3P)4P	93840.340	1.5	4SP(5D)6D	226.2247	-2.074	22810.357	3.5	D6S (3F)4F
225.4959	-2.235	25981.629	3.5	D6S (3G)4G	70314.604	4.5	4P (3P)2G	226.2437	-4.263	48039.090	2.5	D7 (5D)2D
225.5149	-1.503	18360.646	1.5	D7 (5D)2P	62689.880	2.5	4P (3G)4G	226.2688	-2.009	862.613	1.5	D6S (5D)6D
225.5190	-1.209	21251.608	6.5	D6S (3H)4H	65580.041	5.5	4P (3G)4G	226.2803	-2.533	86416.333	3.5	4D (5D)4F
225.5413	-2.621	49506.934	1.5	D6S (3P)4P	93850.979	2.5	4SP(5D)6D	226.2909	-1.364	48039.090	2.5	D7 (5D)2D
225.5466	-2.795	54273.641	4.5	D5S2(7S)4G	98596.650	4.5	4SP(5D)4F	226.2969	-2.784	105763.270	5.5	4D (3F)2H
225.5580	-1.549	105414.180	2.5	4D (3F)4G	61093.413	2.5	4P (3P)2D	226.3229	-4.423	105121.770	2.5	5D (5D)4D
225.5643	-2.264	48039.090	2.5	D7 (5D)2D	92358.610	1.5	4SP(5G)4F	226.3292	-0.584	26352.766	4.5	D6S (3H)2H
225.5689	0.241	82978.677	4.5	4D (5D)6F	38660.043	3.5	4P (5D)6D	226.3503	-2.037	105155.090	4.5	4D (3F)4G
225.5740	-3.392	31811.822	2.5	D7 (5D)2P	76129.046	1.5	4P (1S)2P	226.3647	-4.398	57411.065	2.5	D5S2(7S)4F
225.5766	-0.737	20516.960	2.5	D7 (5D)2D	64834.073	1.5	4P (3P)2P	226.3984	-4.194	86124.301	4.5	4D (5D)4F
225.5953	-4.781	54283.220	3.5	D5S2(7S)4G	98596.650	4.5	4SP(5D)4F	226.4321	-3.703	21430.359	5.5	D6S (3H)4H
225.5988	-2.713	977.053	0.5	D6S (5D)6D	45289.801	1.5	4P (5D)4F					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
226.4591	-0.471	26170.181	5.5	D6S (3H)2H	70314.604	4.5	4P (3G)2G	227.5064	-1.761	105288.847	6.5	4D (3F)4H
226.5032	-3.695	50075.910	1.5	D6S (3F)4F	94211.739	2.5	48P(5P)4P	227.5270	-2.232	105524.461	4.5	4D (3F)4H
226.5117	-2.586	105291.010	3.5	4D (3F)4G	81156.835	3.5	4P (3H)4H	227.5478	-1.738	21430.359	5.5	D6S (3H)4H
226.5201	-3.1156	54063.459	0.5	D6S (3P)2F	98196.000	1.5	48P(3D)4F	227.5622	-1.075	50142.786	2.5	D6S (3F)4F
226.5357	-3.798	2837.950	2.5	D7 (5D)4F	46967.444	2.5	4P (5D)4F	227.6053	-2.607	862.613	1.5	D6S (5D)6D
226.5541	-2.234	21430.359	5.5	D6S (3H)4H	65556.280	4.5	4P (3H)2H	227.6145	-2.289	54275.637	2.5	D5S2(7S)4G
226.5960	-2.046	31483.176	3.5	D6S (3D)4D	98391.930	3.5	4P (3D)2F	227.6363	-1.616	31999.048	3.5	D7 (5D)2F
226.5964	-3.347	54273.641	4.5	D5S2(7S)4G	98391.930	3.5	48P(5D)4F	227.6382	-2.891	50157.452	4.5	D6S (3F)4F
226.5995	-1.948	667.683	2.5	D6S (5D)6D	44784.761	2.5	4P (5D)4D	227.6565	-1.231	50075.910	1.5	D6S (3F)4F
226.6133	-2.725	21581.638	4.5	D6S (3H)4H	65696.038	4.5	4P (3G)4G	227.6593	-4.728	104868.500	1.5	D5S2(7S)4P
226.6257	-5.380	21251.608	6.5	D6S (3H)4H	65363.595	5.5	4P (3H)2H	227.6731	-3.364	57493.321	1.5	D5S2(7S)4P
226.6456	-3.951	54283.220	3.5	D5S2(7S)4G	98391.330	3.5	48P(5D)4D	227.6763	-2.776	20516.960	2.5	D7 (5D)2D
226.6596	-4.538	54902.315	1.5	D6S (3P)2P	99007.700	0.5	48P(5D)4D	227.6814	-2.766	8391.938	2.5	D6S (5D)4D
226.6698	-1.231	31811.822	2.5	D7 (5D)2F	75915.215	2.5	4P (3D)2F	227.7184	-2.991	50157.452	4.5	D6S (3F)4F
226.7587	-1.607	667.683	2.5	D6S (5D)6D	44753.799	3.5	4P (5D)4F	227.7221	-3.924	54870.528	2.5	D6S (3F)2F
226.7591	-4.372	105127.770	2.5	5D (5D)4D	61041.748	2.5	4P (3H)4G	227.7295	-4.674	104705.420	3.5	5D (5D)6D
226.7823	-1.500	86416.333	3.5	4D (5D)4F	42334.822	2.5	4P (5D)6F	227.7329	-4.626	105230.290	0.5	5D (5D)4D
226.7828	-3.437	105144.180	2.5	4D (3F)4G	61332.764	1.5	4P (3F)4F	227.7802	-1.563	49506.934	1.5	D6S (3P)4F
226.7871	-3.873	57493.321	1.5	D5S2(7S)4P	101573.900	1.5	48P(5D)4P	227.7862	-1.482	86124.301	4.5	4D (5D)4F
226.7952	-3.289	54275.637	2.5	D5S2(7S)4G	98354.660	2.5	48P(5D)4F	227.7916	-3.502	105398.852	5.5	4D (3F)4H
226.8067	-2.112	105589.420	3.5	4D (3F)4H	61512.634	4.5	4P (3H)4I	227.7957	-1.495	50187.813	3.5	D6S (3F)4F
226.8137	-1.585	18886.780	0.5	D7 (5D)2P	62962.205	1.5	4P (3P)4D	227.8038	-2.980	18360.646	1.5	D7 (5D)2P
226.8205	-1.729	105063.550	5.5	4D (3F)4G	60989.444	4.5	4P (3H)4I	227.8694	-2.280	105398.852	5.5	4D (3F)4H
226.8342	-2.458	54283.220	3.5	D5S2(7S)4G	98354.660	2.5	48P(5D)4F	227.8771	-2.997	54902.315	1.5	D6S (3P)2P
226.8470	-3.459	50142.786	2.5	D6S (3F)4F	94211.739	2.5	48P(5P)4P	227.9104	-2.022	105589.420	3.5	4D (3F)4H
226.8564	-2.561	977.053	0.5	D6S (5D)6D	45044.168	1.5	4P (5D)4D	227.9128	-2.837	23787.598	1.5	D6S (3P)2P
226.8622	-4.405	104873.230	3.5	5D (5D)4D	60807.230	4.5	4P (3H)4G	227.9175	-2.366	22810.357	3.5	D6S (3F)4F
226.8795	-4.445	54275.637	2.5	D5S2(7S)4G	98338.280	1.5	48P(5P)4H	227.9256	-4.829	50212.826	2.5	D6S (3P)4P
226.8823	-2.163	384.790	3.5	D6S (5D)6D	44446.878	3.5	4P (5D)4D	227.9279	-5.140	3117.461	1.5	D7 (5D)4F
226.8871	-1.980	104863.430	5.5	5D (5D)4G	60807.230	4.5	4P (3H)2H	227.9316	-1.377	384.790	3.5	D6S (5D)6D
226.9127	-3.974	22939.358	2.5	D6S (3F)4F	66672.334	3.5	4P (3G)4H	228.0038	-1.666	50142.786	2.5	D6S (3F)4F
226.9622	-4.036	54232.195	5.5	D5S2(7S)4G	98278.770	5.5	4P (1G)2H	228.0075	-3.289	50142.786	2.5	D6S (3F)4F
227.0212	-3.226	22637.205	4.5	D6S (3F)4F	61093.413	2.5	4P (3P)2D	228.0091	-2.157	21711.917	3.5	D6S (3H)4H
227.0252	-3.742	105127.770	2.5	5D (5D)4D	61093.413	2.5	4P (3P)2D	228.0195	-2.661	30764.485	3.5	D6S (3G)2G
227.0352	-0.720	50157.452	4.5	D6S (3F)4F	60402.342	2.5	4P (3P)4P	228.0380	-2.915	22409.852	0.5	D6S (3P)4P
227.0323	-6.244	16369.360	3.5	D7 (5D)2G	94189.880	5.5	48P(5G)4G	228.0838	-3.328	50157.452	4.5	D6S (3F)4F
227.0571	-1.821	54870.528	2.5	D6S (3F)2F	98998.710	3.5	4P (1G)2F	228.1030	-2.325	22637.205	4.5	D6S (3F)4F
227.0674	-4.347	20805.770	4.5	D7 (5D)2F	64831.943	4.5	4P (3F)2G	228.1156	-3.959	57578.484	0.5	D5S2(7S)4P
227.0790	-3.420	50187.813	3.5	D6S (3F)4F	61512.634	4.5	4P (3H)4I	228.1278	-2.667	49506.934	1.5	D6S (3P)4P
227.1414	-1.189	105524.461	4.5	4D (3F)4H	94211.739	2.5	48P(5P)4P	228.1794	-0.967	105398.852	5.5	4D (3F)4H
227.1535	-1.845	86124.301	4.5	4D (5D)4F	42114.818	4.5	4P (5G)6F	228.2419	-2.487	23805.328	4.5	D6S (3G)4G
227.1845	-2.242	20830.582	2.5	D6S (3P)4P	64834.073	1.5	4P (3P)2P	228.2337	-3.768	50187.813	3.5	D6S (3F)4F
227.2081	-1.716	50212.826	2.5	D6S (3P)4P	94211.739	2.5	48P(5P)4P	228.2419	-2.487	50187.813	3.5	D6S (3F)4F
227.2108	-2.459	21581.638	4.5	D6S (3H)4H	65580.041	5.5	4P (3G)4G	228.2479	-2.258	108630.429	5.5	5S (11)2I
227.2115	-4.251	57578.484	0.5	D5S2(7S)4P	61156.835	3.5	4P (3H)4H	228.2661	-4.032	105127.770	2.5	5D (5D)4D
227.2262	-3.261	105155.090	4.5	4D (3F)4G	101573.900	1.5	48P(5D)4P	228.2845	-1.535	105524.461	4.5	4D (3F)4H
227.2310	-1.339	54904.222	3.5	D6S (3F)2F	98998.710	3.5	4P (1G)2F	228.2874	-3.026	18360.646	1.5	D7 (5D)2P
227.2487	-1.596	50157.452	4.5	D6S (3F)4F	94148.510	4.5	48P(5G)4G	228.2968	-2.352	31811.822	2.5	D7 (5D)2F
227.2845	-4.655	21711.917	3.5	D6S (3H)4H	65696.038	4.5	4P (3G)4G	228.3128	-4.384	104593.270	5.5	5D (5D)6G
227.3335	-2.1933	21581.638	4.5	D6S (3H)4H	65556.280	4.5	4P (3H)2H	228.3328	-2.328	21581.638	4.5	D6S (3H)4H
227.3435	-3.320	108804.667	3.5	5S (3D)4D	64831.943	4.5	4P (3P)2D	228.3485	-3.214	667.683	2.5	D6S (5D)6D
227.3616	-2.634	23031.300	1.5	D6S (3F)4F	70314.604	4.5	4P (3P)2D	228.3514	-2.488	22810.357	3.5	D6S (3F)4F
227.3998	-1.987	26352.766	4.5	D6S (3H)2H	64831.943	4.5	4P (3P)2D	228.3528	-2.328	105291.010	3.5	4D (3F)4G
227.4057	-0.889	50187.813	3.5	D6S (3F)4F	94148.510	4.5	48P(5G)4G	228.3686	-4.619	50212.826	2.5	D6S (3P)4P
227.4290	-7.446	23317.633	2.5	D5S2(7S)6S	67273.826	1.5	4P (3P)2D	228.3723	-3.703	50212.826	2.5	D6S (3P)4P
227.4517	-2.191	22637.205	4.5	D6S (3F)4F	66589.008	4.5	4P (3G)4H	228.3997	-1.177	20516.960	2.5	D7 (5D)2D
227.5009	-3.675	18886.780	0.5	D7 (5D)2F	62829.075	0.5	4P (3P)4D	228.4228	-2.134	18360.646	1.5	D7 (5D)2D
227.5049	-4.134	86599.738	2.5	4D (5D)4F	42658.224	3.5	4P (5D)6P	228.4256	-3.822	50075.910	1.5	D6S (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
228.4423	-1.001	105288.847	6.5	4D (3F)4H	61527.616	6.5	4P (3H)4I	229.6662	-1.450	21581.638	4.5	D6S (3H)4H
228.4586	-2.417	86416.333	3.5	4D (5D)4F	42658.224	3.5	4P (5D)6P	229.6746	-3.602	60441.033	1.5	D5S2 (7S)4D
228.4745	-3.477	50075.910	1.5	D6S (3F)4F	93830.979	2.5	4SP (5D)6D	229.6768	-1.939	21308.040	1.5	D7 (5D)2D
228.5460	-4.682	104366.820	6.5	5D (3F)4G	60825.449	5.5	4P (3H)4G	229.6879	-1.527	20516.960	2.5	D7 (5D)2D
228.5528	-2.594	22637.205	4.5	D6S (3F)4G	66377.283	3.5	4P (3H)4G	229.6881	-1.563	105589.420	3.5	4D (3F)4H
228.5806	-4.668	104828.160	2.5	5D (5D)6D	61093.413	2.5	4P (3F)2D	229.7044	-4.403	54870.528	2.5	D6S (3F)2F
228.5899	-2.721	22939.358	2.5	D6S (3F)4F	66672.334	3.5	4P (3G)4H	229.7377	-4.956	23787.598	1.5	D6S (3F)2F
228.6766	-4.748	104873.230	3.5	5D (5D)4F	61156.835	3.5	4P (3H)4H	229.7809	-3.352	105589.420	3.5	4D (3F)4H
228.6999	-2.848	22810.357	3.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F	229.8225	-1.247	21308.040	1.5	D7 (5D)2D
228.7165	-4.551	58631.531	4.5	D6S (1G)2G	102340.300	5.5	4SP (3H)4I	229.8618	-1.909	23031.320	1.5	D6S (3F)4F
228.7538	-1.560	105288.847	6.5	4D (3F)4H	61587.214	5.5	4P (3H)4I	229.8824	-3.370	54904.222	3.5	D6S (3F)2F
228.7886	-3.853	108804.667	3.5	5S (3H)4D	65109.679	3.5	4P (3F)2G	229.8932	-3.536	105211.140	4.5	5D (5D)4G
228.8020	-3.412	54904.222	3.5	D6S (3F)2F	98596.650	4.5	4SP (5D)4F	229.8936	-4.394	54870.528	2.5	D6S (3F)2F
228.8152	-1.246	104315.370	6.5	4D (3H)2K	60825.449	5.5	4P (3H)4G	229.9169	-2.872	20805.770	4.5	D7 (5D)2H
228.8232	-4.368	18360.646	1.5	D7 (5D)2P	62049.025	2.5	4SP (7S)6P	229.9243	-4.836	105630.750	2.5	5D (5D)4G
228.8242	-2.603	50142.786	2.5	D6S (3F)4F	93830.979	2.5	4SP (5D)6D	229.9316	-1.625	104315.370	6.5	4D (3H)2K
228.8520	-1.983	105414.180	2.5	4D (3F)4G	61726.077	3.5	4P (3F)4D	229.9394	-1.823	105063.550	5.5	4D (3F)4G
228.8540	-6.407	23317.633	2.5	D5S2 (7S)6S	67000.517	2.5	4P (3F)2D	229.9610	-3.965	86710.837	1.5	4D (5D)4F
228.8663	-0.078	105763.270	5.5	4D (3F)2H	62083.108	4.5	4P (3H)2G	229.9723	-1.198	105763.270	5.5	4D (3F)2H
228.9023	-2.958	22939.358	2.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F	229.9848	-4.047	54870.528	2.5	D6S (3F)2F
228.9256	-3.012	25981.629	3.5	D6S (3G)4G	69650.484	2.5	4P (3G)2F	229.9936	-1.224	86124.301	4.5	4D (5D)4F
228.9441	-4.793	54870.528	2.5	D6S (3F)2F	98535.850	3.5	4SP (5D)4F	230.0314	-0.930	105524.461	4.5	4D (3F)4H
228.9578	-4.782	105711.730	2.5	5D (5D)6S	62049.025	2.5	4SP (7S)6P	230.0482	-2.752	20830.582	2.5	D6S (3F)4P
229.0641	-1.132	105155.090	4.5	4D (3F)4G	61512.634	4.5	4P (3H)4I	230.0663	-2.887	54904.222	3.5	D6S (3F)2F
229.0802	-3.896	25787.598	1.5	D6S (3F)2P	69426.980	0.5	4SP (5S)4F	230.0764	-2.666	54904.222	3.5	D6S (3F)2F
229.1209	-3.317	54904.222	3.5	D6S (3F)2F	98535.850	3.5	4SP (5D)4F	230.1899	-0.386	105155.090	4.5	4D (3F)4G
229.1425	-2.129	50212.826	2.5	D6S (3G)4G	93840.340	1.5	4SP (5D)6D	230.1358	-1.179	104064.670	6.5	4D (3H)4I
229.1561	-2.298	25981.629	3.5	D6S (3F)4G	69606.552	3.5	4P (3G)2F	230.1427	-1.581	22939.358	2.5	D6S (3F)4F
229.1876	-7.932	8680.454	1.5	D6S (5D)4D	52299.390	2.5	4SP (7S)8P	230.1431	-0.804	105589.420	3.5	4D (3F)4H
229.1917	-1.958	103212.826	2.5	D6S (3F)4P	93830.979	2.5	4SP (5D)6D	230.1531	-2.674	54902.315	1.5	D6S (3F)2P
229.2120	-3.921	18360.646	1.5	D7 (5D)2P	61974.933	1.5	4SP (7S)6P	230.1899	-0.386	105155.090	4.5	4D (3F)4G
229.2425	-2.243	20340.300	5.5	D7 (5D)2H	63948.790	4.5	4P (3F)4G	230.1965	-2.454	104315.370	6.5	4D (3H)2K
229.2725	-4.208	54902.315	1.5	D6S (3F)2P	98505.100	2.5	4SP (5D)4D	230.2494	-3.775	105589.420	3.5	4D (3F)4H
229.2772	-1.214	31999.048	3.5	D7 (5D)2F	75600.931	3.5	4P (3D)2F	230.3349	-3.148	105127.770	2.5	5D (5D)4D
229.2825	-3.963	54904.222	3.5	D6S (3F)2F	98505.100	2.5	4SP (5D)4D	230.3354	-1.160	21430.359	5.5	D6S (3H)4H
229.3131	-5.785	26035.423	2.5	D6S (3G)4G	69650.484	2.5	4P (3G)2F	230.3557	-2.111	17171.917	3.5	D6S (3H)4H
229.3443	-5.785	20830.582	2.5	D6S (3F)4P	64425.408	2.5	4P (3F)2F	230.3758	-4.750	85728.806	1.5	4D (5D)4S
229.3759	-3.526	60384.370	0.5	D5S2 (7S)4D	103967.490	0.5	4SP (3P)2S	230.3849	-0.793	49506.934	1.5	D6S (3P)4P
229.3769	-1.251	22939.358	2.5	D6S (3F)4F	66522.304	2.5	4P (3G)4F	230.4170	-3.876	105630.750	2.5	5D (5D)4G
229.3852	-1.457	23031.300	1.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F	230.4737	-1.089	22637.205	4.5	D6S (3F)4F
229.3859	-1.659	30388.542	4.5	D6S (3G)2G	73969.767	5.5	4P (1I)2I	230.4907	-0.559	88157.116	1.5	4D (5D)4P
229.3862	-4.841	103983.510	3.5	5S (3G)2G	60402.342	2.5	4P (3F)4P	230.5189	-0.669	104174.270	5.5	4D (3H)4I
229.4044	-4.770	54273.641	4.5	D5S2 (7S)4G	97851.350	4.5	4P (1G)2H	230.5226	-1.294	105524.461	4.5	4D (3F)4H
229.4426	-2.602	20516.960	2.5	D7 (5D)2D	64087.418	2.5	4P (3F)4G	230.5418	-3.415	30388.542	4.5	D6S (3G)2G
229.4562	-1.042	105155.090	4.5	4D (3F)4G	61587.214	5.5	4P (3H)4I	230.5502	-2.496	86599.738	2.5	4D (5D)4F
229.4612	-1.061	22810.357	3.5	D6S (3F)4F	66377.283	3.5	4P (3G)4F	230.5684	-9.548	23317.633	2.5	D5S2 (7S)6S
229.4717	-1.310	105291.010	3.5	4D (3F)4G	61726.077	3.5	4P (3F)4D	230.5848	-9.548	105524.461	4.5	4D (3F)4H
229.5444	-3.957	26035.423	2.5	D6S (3G)4G	69606.552	3.5	4P (3G)2F	230.5944	-3.253	105524.461	4.5	4D (3F)4H
229.5456	-1.702	105063.550	5.5	4D (3F)4G	61512.634	4.5	4P (3H)4I	230.5963	-0.732	49100.976	0.5	D6S (3P)4P
229.5566	-1.884	104174.270	5.5	4D (3H)4I	60625.449	5.5	4P (3H)4I	230.6167	-1.348	105414.180	2.5	4D (3F)4G
229.5579	-4.705	104705.420	3.5	5D (5D)6D	61156.835	3.5	4P (3H)4H	230.6200	-4.954	85462.862	3.5	4D (5D)4G
229.5687	-1.042	49100.976	0.5	D6S (3F)4P	92647.510	1.5	4P (3F)4D	230.6368	-4.947	85679.698	2.5	4D (5D)4G
229.6010	-3.684	105589.420	3.5	4D (3F)4H	62049.025	2.5	4SP (7S)6P	230.6369	-0.665	50142.786	2.5	D6S (3F)4F
229.6025	-4.608	105711.730	2.5	5D (5D)6S	62171.615	3.5	4SP (7S)6P	230.6651	-4.500	105065.630	3.5	5D (5D)6G
229.6097	-0.314	87985.628	2.5	4D (5D)4D	44446.878	3.5	4P (5D)4D	230.6803	-1.983	104174.270	5.5	4D (3H)4I
229.6241	-3.941	20340.300	5.5	D7 (5D)2H	63876.317	5.5	4P (3F)4G	230.7149	-1.708	50157.452	4.5	D6S (3F)4F
229.6246	-1.447	105063.550	5.5	4D (3F)4G	61527.616	6.5	4P (3H)4I	230.7293	-4.343	85728.806	1.5	4D (5D)4S

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
230.7313	0.236	50157.452	4.5	D6S (3F)4F	93484.580	4.5	4P (3F)4F	231.5332	-1.093	104064.670	6.5	4D (3H)4I
230.7401	-2.757	54870.528	2.5	D6S (3F)2F	98196.000	1.5	4SP(3D)4F	231.5375	-4.964	103983.510	3.5	5S (3G)2G
230.7722	-0.767	50075.910	1.5	D6S (3F)4F	93395.360	2.5	4P (3H)2G	231.5730	0.113	103414.180	2.5	4D (3F)4G
230.7919	-1.461	105398.852	5.5	4D (3F)4H	62083.108	4.5	4P (3H)2G	231.6222	-3.508	85495.304	2.5	4D (5D)6S
230.7971	-4.092	25787.598	1.5	D6S (3F)2F	69102.380	2.5	4SP(5S)4P	231.6938	-2.764	104873.230	3.5	5D (5D)4D
230.8767	0.059	50187.813	3.5	D6S (3F)4F	93487.650	3.5	4P (3F)4F	231.7020	-4.522	105211.140	4.5	5D (5D)4F
230.8866	-3.752	105449.540	3.5	5D (5D)4G	62151.561	2.5	4P (3F)4F	231.7061	-0.898	88189.030	0.5	4D (5D)4P
230.8931	-0.673	50187.813	3.5	D6S (3F)4F	93484.580	4.5	4P (3F)4F	231.7160	-3.855	20805.770	4.5	D7 (5D)2H
230.9024	-7.539	23317.633	2.5	D5S2(7S)6S	66612.656	1.5	4P (3G)4F	231.7291	-0.499	49506.934	1.5	D6S (3P)4P
230.9072	-3.978	22637.205	4.5	D6S (3F)4F	98196.000	1.5	4P (3G)4F	231.7352	0.149	102921.010	3.5	4D (3F)4G
230.9095	-3.336	54902.315	1.5	D6S (3P)2P	98196.000	1.5	4SP(5D)4F	231.7381	-1.751	22939.358	2.5	D6S (3F)4G
230.9346	-4.756	85728.806	1.5	4D (5D)4S	42439.822	0.5	4P (5D)6F	231.7665	-2.502	31364.440	1.5	D6S (3D)4D
230.9368	-1.247	105414.180	2.5	4D (3F)4G	62125.600	1.5	4P (3H)4H	231.7704	-1.356	105291.450	3.5	4D (3F)4G
230.9470	-0.104	104174.270	5.5	4D (3H)4I	60887.598	5.5	4P (3H)4H	231.7781	-2.553	31368.450	0.5	D6S (3D)4D
230.9553	-0.913	108648.695	6.5	5S (11)2I	65363.595	5.5	4P (3H)2H	231.7965	-2.501	85462.862	3.5	4D (5D)4G
230.9711	-0.948	104119.710	7.5	4D (3H)2K	60837.569	6.5	4P (3H)4H	231.7965	-4.891	105211.140	4.5	5D (5D)4G
230.9911	-3.053	85679.698	2.5	4D (5D)4G	42401.302	1.5	4P (5D)6F	231.8063	0.479	103751.660	5.5	4D (3H)4H
231.0102	-0.425	50212.826	2.5	D6S (3F)4F	93487.650	3.5	4P (3F)4F	231.8152	-0.308	49100.976	0.5	D6S (3P)4P
231.0471	-5.340	22810.357	3.5	D6S (3F)4F	66078.269	2.5	4P (3G)4G	231.8200	-1.688	31483.176	3.5	D6S (3D)4D
231.0520	-1.991	105589.420	3.5	4D (3F)4H	62322.431	3.5	4P (3H)2G	231.8345	-1.378	22810.357	3.5	D6S (3F)4F
231.0529	-2.978	108630.429	5.5	5S (11)2I	65363.595	5.5	4P (3H)2G	231.8396	-3.442	21711.917	3.5	D6S (3H)4H
231.0743	-3.189	54063.459	0.5	D6S (3P)2P	97326.270	1.5	4SP(3P)2P	231.8396	-2.704	105291.450	3.5	4D (3F)4G
231.0754	-0.624	105414.180	2.5	4D (3F)4G	62151.561	2.5	4P (3F)4F	231.8430	-2.704	105291.450	3.5	4D (3F)4G
231.0986	-2.437	85495.304	2.5	4D (5D)6S	42237.033	3.5	4P (5D)6F	231.8539	-1.511	21308.040	1.5	D7 (5D)2D
231.1020	-2.571	49100.976	0.5	D6S (3P)4P	92358.610	1.5	4SP(5G)4F	231.8547	-2.222	36126.387	1.5	D6S (3D)2D
231.1063	-7.235	20830.582	2.5	D6S (3F)4P	64087.418	2.5	4P (3F)4G	231.8631	-4.017	50212.826	2.5	D6S (3P)4P
231.1226	-1.006	26332.766	4.5	D6S (3H)2H	69606.552	3.5	4P (3G)2F	231.8648	-2.348	49100.976	0.5	D6S (3P)4P
231.1290	-0.110	50142.786	2.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F	231.8676	-0.751	88157.116	1.5	4D (5D)4P
231.1291	-0.321	50075.910	1.5	D6S (3F)4F	93328.480	1.5	4P (3F)4F	231.8929	-3.080	31387.948	2.5	D6S (3D)4D
231.1412	-3.619	21581.638	4.5	D6S (3H)4H	64831.943	4.5	4P (3F)2H	231.9009	-1.436	108804.667	3.5	5S (3D)4G
231.1514	-4.166	108804.667	3.5	5S (3H)4D	65556.280	4.5	4P (3H)2H	231.9167	-3.387	105398.852	5.5	4D (3F)4H
231.1606	-5.966	26055.423	2.5	D6S (3G)4G	69302.090	1.5	4SP(5S)4P	231.9221	-4.150	105230.290	0.5	5D (5D)4D
231.1834	-2.965	31364.440	1.5	D6S (3D)4D	74606.841	2.5	4P (3P)2D	231.9361	-3.970	104828.160	2.5	5D (3F)6D
231.1856	-2.780	105291.010	3.5	4D (3F)4G	62049.025	2.5	4SP(7S)6P	231.9418	-1.714	105763.270	5.5	4D (3F)2H
231.1923	-0.908	105398.852	5.5	4D (3F)4H	62158.110	4.5	4P (3F)4F	231.9796	-4.984	85495.304	2.5	4D (5D)6S
231.2026	-1.235	18886.780	0.5	D7 (5D)2P	62125.600	1.5	4P (3P)2D	231.9917	-1.649	105414.180	2.5	4D (3F)4G
231.2224	-2.271	20805.770	4.5	D7 (5D)2H	64040.886	3.5	4P (3F)4G	232.0018	-3.211	86710.837	1.5	4D (5D)4F
231.2400	-1.379	87985.628	2.5	4D (5D)4F	44753.799	3.5	4P (5D)4F	232.0035	0.029	105155.090	4.5	4D (3F)4G
231.2652	-0.110	104064.670	6.5	4D (3H)4I	60837.569	6.5	4P (3H)4H	232.0111	-2.816	18886.780	0.5	D7 (5D)2P
231.2739	-0.809	105291.010	3.5	4D (3F)4G	62065.521	3.5	4P (3F)4F	232.0699	-1.723	88157.116	1.5	4D (5D)4P
231.3092	-2.119	31387.948	2.5	D6S (3D)4D	74606.841	2.5	4P (3D)2D	232.0865	-0.887	108630.429	5.5	5S (11)2I
231.3174	-3.686	23031.300	1.5	D6S (3F)4F	66248.660	0.5	4P (3P)2S	232.0982	-1.933	105155.090	4.5	4D (3F)4G
231.3210	-3.562	85184.734	4.5	4D (5D)4G	41968.046	5.5	4P (5D)6F	232.1059	-2.751	20805.770	4.5	D7 (5D)2H
231.3302	-0.784	30388.542	4.5	D6S (3G)2G	73603.500	5.5	4P (11)2H	232.1093	-3.796	85184.734	4.5	4D (5D)4G
231.3365	-1.126	49100.976	0.5	D6S (3P)4P	64040.886	3.5	4P (3F)4G	232.1161	-1.267	108648.695	6.5	5S (11)2I
231.3552	-2.901	20830.582	2.5	D6S (3F)4P	64040.886	3.5	4P (3F)4G	232.1425	-4.167	60270.339	3.5	D5S2(7S)4D
231.3633	-2.083	27314.922	3.5	D6S (3F)2F	70523.706	3.5	4P (3G)2G	232.1507	-4.800	105127.770	2.5	5D (5D)4D
231.3680	-2.098	105291.010	3.5	4D (3F)4G	62083.108	4.5	4P (3H)2G	232.1647	-6.079	23317.633	2.5	D5S2(7S)6S
231.3699	-1.428	50187.813	3.5	D6S (3F)4F	93395.360	2.5	4P (3F)4F	232.1691	-1.043	22637.205	4.5	D6S (3F)4F
231.3853	-6.445	23317.633	2.5	D5S2(7S)6S	66522.304	2.5	4P (3G)4F	232.2146	-3.474	108630.429	5.5	5S (11)2I
231.3975	-1.302	22810.357	3.5	D6S (3F)4F	66012.750	4.5	4P (3G)4F	232.2331	-1.150	20631.300	1.5	D6S (3F)4F
231.3995	-2.381	105524.461	4.5	4D (3F)4H	62322.431	3.5	4P (3H)2G	232.2331	-7.524	26055.423	2.5	D6S (3G)4G
231.4057	-0.841	87985.628	2.5	4D (5D)4D	44784.761	2.5	4P (5D)4P	232.2665	-0.668	103983.510	3.5	4D (3H)4I
231.4723	-1.491	49506.934	1.5	D6S (3F)4P	92695.374	2.5	4P (3P)2D	232.3423	-3.816	108648.695	6.5	5S (3G)2G
231.4870	-1.180	50142.786	2.5	D6S (3F)4F	93328.480	1.5	4P (3F)4F	232.3678	-2.506	21812.055	1.5	D6S (3P)4P
231.4917	-0.952	104174.270	5.5	4D (3H)4I	60989.444	4.5	4P (3H)4H	232.3707	-4.613	85679.698	2.5	4D (5D)4G
231.5039	-1.679	50212.826	2.5	D6S (3P)4F	93395.360	2.5	4P (3F)4F	232.4750	-4.627	105127.770	2.5	5D (5D)4D
231.5296	-1.685	86416.333	3.5	4D (5D)4F	43238.586	2.5	4P (5D)6P	232.4885	-2.447	27314.922	3.5	D6S (3F)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
232.5031	-0.535	105155.090	4.5	4D (3F)4G	62158.110	4.5	4P (3F)4F	233.2915	-1.472	49506.934	1.5	D6S (3P)4P
232.5101	-1.386	105288.847	6.5	4D (3F)4H	62293.164	6.5	4P (3H)2I	233.3710	-0.118	85495.304	2.5	4D (5D)6S
232.5169	-4.639	21812.055	1.5	D6S (3P)4P	64806.487	0.5	4P (3P)2F	233.3951	-0.386	101555.090	4.5	4D (3F)4G
232.5189	-3.096	103983.510	3.5	5S (3G)2G	60989.444	4.5	4P (3H)4H	233.4277	-1.730	103983.510	3.5	5S (3G)2G
232.5302	-1.052	22939.358	2.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	233.4412	-4.772	104873.230	3.5	5D (5D)4D
232.5372	-1.333	36252.918	2.5	D6S (3D)2D	79243.600	1.5	4P (1D)2P	233.4462	-2.702	50075.910	1.5	D6S (3F)4F
232.5447	-2.578	57411.065	2.5	D5S2(7S)4F	100400.360	2.5	4SP(3P)2D	233.4488	-1.048	49506.934	1.5	D6S (3P)4P
232.5565	-1.567	50142.786	2.5	D6S (3F)4F	93129.900	3.5	4P (3F)4D	233.4491	-4.633	49100.976	0.5	D6S (3P)4P
232.5582	-0.728	30764.485	3.5	D6S (3G)2G	73751.282	4.5	4P (1I)2H	233.5305	-0.601	49506.934	1.5	D6S (3P)4P
232.5637	-4.848	105230.290	0.5	5D (5D)4D	62244.520	1.5	4P (3F)4F	233.5312	-4.373	104873.230	3.5	5D (5D)4D
232.5762	-2.247	105155.090	4.5	4D (3F)4G	62171.615	3.5	4SP(7S)6P	233.5641	-3.289	103608.909	4.5	5S (3G)2G
232.5762	-3.039	103608.909	4.5	5S (3G)2G	60625.449	5.5	4P (3H)4G	233.6004	-2.615	31811.822	2.5	D7 (5D)2F
232.5810	-0.823	88189.030	0.5	4D (5D)4D	45206.450	0.5	4P (5D)4D	233.6174	-1.049	108940.367	3.5	5S (3D)4D
232.5826	-0.590	105063.550	5.5	4D (3F)4G	62083.108	4.5	4P (3H)2G	233.6401	-1.427	104315.370	6.5	4D (3H)2K
232.6016	-2.543	86599.738	2.5	4D (5D)4D	61726.077	3.5	4P (3F)4D	233.6807	-3.862	104863.430	5.5	5D (5D)4G
232.6155	-3.891	105121.770	2.5	5D (5D)4D	62151.561	1.5	4P (5D)6P	233.7256	-0.816	21308.040	1.5	D7 (5H)2K
232.6221	-0.076	103600.440	6.5	4D (3H)4H	43620.957	1.5	4P (3H)4G	233.7289	-2.414	10419.710	7.5	4D (3H)2K
232.6358	-0.108	50157.452	4.5	D6S (3F)4F	60625.449	5.5	4P (3H)4G	233.7350	-1.815	105063.550	5.5	4D (3F)4G
232.6376	-3.346	18360.646	1.5	D7 (5D)2P	93129.900	3.5	4P (3F)4D	233.7525	-0.085	49506.934	1.5	D6S (3P)4P
232.6568	-1.294	105291.010	3.5	4D (3F)4G	61332.764	1.5	4P (3P)4P	233.7761	0.479	103600.440	6.5	4D (3H)4H
232.6612	-4.045	104315.370	6.5	4D (3H)2K	62322.431	3.5	4P (3H)2G	233.7796	-1.450	103751.660	5.5	4D (3H)4H
232.7241	-4.726	105127.770	2.5	5D (5D)2D	61347.614	7.5	4P (3H)4I	233.7883	-8.410	103751.660	5.5	4D (3H)4H
232.7294	-4.010	47674.721	1.5	D7 (5D)2D	62171.615	3.5	4SP(7S)6P	233.7936	-4.059	23347.633	2.5	D5S2(7S)6S
232.7538	-1.444	667.683	2.5	D6S (5D)6D	90629.902	1.5	4P (3P)4S	233.7936	-4.059	105449.540	3.5	5D (5D)4G
232.7675	-3.991	88157.116	1.5	4D (5D)4F	43620.957	1.5	4P (5D)6P	233.8008	-0.342	862.613	1.5	D6S (5D)6D
232.7699	-2.171	20516.960	2.5	D7 (5D)2D	45206.450	0.5	4P (5D)4D	233.8114	-1.140	50142.786	2.5	D6S (3F)4F
232.7730	-4.726	54904.222	3.5	D6S (3F)2F	63465.109	1.5	4P (3F)4D	233.8135	-3.558	20516.960	2.5	D7 (5D)2D
232.7763	-1.135	49506.934	1.5	D6S (3P)4F	42237.033	3.5	4P (5D)6F	233.8205	-2.139	30388.542	4.5	D6S (3G)2G
232.7876	-1.394	103751.660	5.5	4D (3H)4H	97851.350	4.5	4P (1G)2H	233.8478	-3.332	49100.976	0.5	D6S (3P)4P
232.7963	-0.933	22637.205	4.5	D6S (3F)4F	92453.460	0.5	4P (3F)4D	233.8545	-2.341	84863.351	5.5	4D (5D)4G
232.8003	-1.512	50187.813	3.5	D6S (3F)4F	60807.230	4.5	4P (3H)4G	233.8688	-2.159	22810.357	3.5	D6S (3F)4F
232.8021	-3.613	103983.510	3.5	5S (3G)2G	65580.041	5.5	4P (3G)4G	233.8875	-4.014	49100.976	0.5	D6S (3P)4P
232.8037	-1.579	87985.628	2.5	4D (5D)4F	93129.900	3.5	4P (3F)4G	233.9098	-3.142	60445.275	2.5	D5S2(7S)4D
232.8421	-2.385	108630.429	5.5	5S (1I)2I	61041.748	2.5	4P (3H)4G	233.9197	-1.868	105398.852	5.5	4D (3F)4H
232.9252	-2.480	22637.205	4.5	D6S (3F)4F	45044.168	1.5	4P (5D)4D	233.9396	-2.334	85172.809	0.5	4D (5D)4D
232.9360	-0.007	50212.826	2.5	D6S (3P)4P	65596.038	4.5	4P (3G)4G	233.9408	-0.962	18360.646	1.5	D7 (5D)2P
232.9522	-0.024	103751.660	5.5	4D (3H)4H	60837.569	6.5	4P (3F)4D	233.9757	-1.380	104315.370	6.5	4D (3H)2K
232.9562	-2.544	60270.339	3.5	D5S2(7S)4F	103183.700	3.5	4SP(3D)2F	233.9871	-2.517	105414.180	2.5	4D (3F)4G
232.9905	-2.911	57493.321	1.5	D5S2(7S)4P	100400.360	2.5	4SP(3P)2D	234.0035	-2.757	103608.909	4.5	5S (3G)2G
232.9975	-1.939	87985.628	2.5	4D (5D)4F	45079.879	2.5	4P (5D)4F	234.0183	-1.714	49506.934	1.5	D6S (3P)4P
232.9992	0.334	105063.550	5.5	4D (3F)4G	62158.110	4.5	4P (3F)4G	234.0268	-2.154	104064.670	6.5	4D (3H)4I
233.0108	-2.065	27620.412	2.5	D6S (3F)2F	70523.706	3.5	4P (3G)2G	234.0323	-4.302	103183.700	1.5	6S (5D)4D
233.0312	-2.870	105589.420	3.5	4D (3F)4H	62689.880	2.5	4P (3P)4D	234.0349	-1.209	36126.387	1.5	D6S (3D)2D
233.0329	-2.363	88189.030	0.5	4D (5D)4P	45289.801	1.5	4P (5D)4F	234.0448	-2.427	85048.602	1.5	4D (5D)4D
233.0342	-2.172	84863.351	5.5	4D (5D)4F	41968.046	5.5	4P (5D)6F	234.0463	-0.568	21711.917	3.5	D6S (3H)4H
233.0664	-3.457	60441.066	1.5	D5S2(7S)4D	103334.100	2.5	4SP(3D)2F	234.0499	-0.322	103600.440	6.5	4D (3H)4I
233.0825	-3.617	103983.510	3.5	5S (3G)2G	61093.413	2.5	4P (3P)2D	234.0579	-0.324	50187.813	3.5	D6S (3F)4F
233.0895	-3.011	60445.275	2.5	D5S2(7S)4D	103334.100	2.5	4SP(3D)2F	234.0688	-2.132	49506.934	1.5	D6S (3P)4P
233.0901	-4.513	105211.140	4.5	5D (5D)4G	62322.431	3.5	4P (3H)2G	234.0911	-3.831	104863.430	5.5	5D (5D)4G
233.1065	-1.077	22810.357	3.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G	234.0945	-0.770	21581.638	4.5	D6S (3H)4H
233.1307	-0.925	1872.567	4.5	D7 (5D)4F	44753.799	3.5	4P (5D)4F	234.1036	-3.872	30388.542	4.5	D6S (3G)2G
233.1737	-2.744	108804.667	3.5	5S (3D)4D	65931.334	3.5	4P (3G)4G	234.1114	-4.325	104873.230	3.5	5D (5D)4D
233.2064	-2.186	88157.116	1.5	4D (5D)4P	45289.801	1.5	4P (5D)4F	234.1432	-2.931	87985.628	2.5	4D (5D)4P
233.2241	-2.083	103751.660	5.5	4D (3H)4H	60887.598	5.5	4P (3H)4H	234.1950	-0.109	50212.826	2.5	D6S (3P)4P
233.2342	-4.798	105524.461	4.5	4D (3F)4H	62662.244	4.5	4P (3H)2I	234.1998	-1.163	31811.822	2.5	D7 (5D)2F
233.2800	-0.142	384.790	3.5	D6S (5D)6D	43238.586	2.5	4P (5D)6P	234.1998	-4.768	104411.620	4.5	5D (5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
234.2240	-1.825	18360.646	1.5	D7 (5D)2P	61041.748	2.5	4P (3H)4G	235.1972	-4.715	105449.540	3.5	5D (5D)4G
234.2487	-4.708	104828.160	2.5	5D (5D)6D	62151.561	2.5	4P (3F)4F	235.2312	0.140	84938.180	1.5	4D (5D)6G
234.2594	-4.476	18360.646	1.5	D7 (5D)2P	61035.287	0.5	4P (3F)4P	235.2541	3.959	26932.748	0.5	D6S (3F)2P
234.2929	-4.256	105630.750	2.5	5D (5D)4G	62962.205	1.5	4P (3P)4D	235.2617	-2.520	105155.090	4.5	4D (3F)4G
234.3309	0.551	104174.270	5.5	4D (3H)4I	61512.634	4.5	4P (3H)4I	235.2763	-1.976	85728.806	1.5	4D (5D)4S
234.3496	0.160	0.000	4.5	D6S (5D)6D	42658.224	3.5	4P (5D)6P	235.3188	-2.201	50212.826	2.5	D6S (3F)4P
234.3588	-4.634	104828.160	2.5	5D (5D)6D	62171.615	3.5	48P (7S)6P	235.3470	0.708	104064.670	6.5	4D (3H)4I
234.3681	-4.165	104380.940	3.5	5D (3D)6F	61726.077	3.5	4P (3F)4D	235.3681	0.066	84710.685	3.5	4D (5D)6G
234.3831	-3.613	103608.909	4.5	5S (3G)2G	60956.781	3.5	4P (3H)4G	235.3746	-2.939	22637.205	4.5	D6S (3F)4F
234.3960	-1.014	2430.097	3.5	D7 (5D)4F	45079.879	2.5	4P (5D)4F	235.3834	3.413	103983.510	3.5	5S (3G)2G
234.4096	-2.246	85048.602	1.5	4D (5D)4D	42091.302	1.5	4P (5D)6F	235.3907	-2.794	84870.863	2.5	4D (5D)4D
234.4132	-2.472	104174.270	5.5	4D (3H)4I	61527.616	6.5	4P (3H)4I	235.3931	-2.374	105414.180	2.5	4D (3F)4G
234.4257	-1.951	105589.420	3.5	4D (3F)4H	62945.038	3.5	4P (3F)4F	235.4442	-1.029	50142.786	2.5	D6S (3F)4F
234.4283	-0.441	977.053	0.5	D6S (5D)6D	43220.957	1.5	4P (5D)6P	235.4479	-0.250	21581.638	4.5	D6S (3H)4H
234.4503	-4.290	104705.420	3.5	5D (5D)6D	62065.521	3.5	4P (3F)4F	235.4674	-4.263	54870.528	2.5	D6S (3F)2F
234.4799	-2.952	20830.582	2.5	D6S (3P)4D	63465.109	1.5	4P (3F)4D	235.4877	-4.664	103608.909	4.5	5S (3G)2G
234.4837	-2.504	84870.863	2.5	4D (5D)4D	42237.033	3.5	4P (5D)6F	235.4889	-1.281	105414.180	2.5	4D (3F)4G
234.5179	-1.126	30388.542	4.5	D6S (3G)2G	73016.147	3.5	4P (1G)2F	235.4889	-1.281	2837.950	2.5	D7 (5D)4F
234.5235	-2.069	105288.847	6.5	4D (3F)4H	62662.244	5.5	4P (3H)2I	235.5094	-1.701	84685.198	3.5	4D (5D)4D
234.5339	-0.062	21251.608	6.5	D6S (3H)4H	63876.317	5.5	4P (3H)2I	235.5216	-2.218	18886.780	0.5	D7 (5D)2P
234.5454	-4.778	44915.046	3.5	D6S (1F)2F	87537.652	3.5	46P (5G)6F	235.5216	-2.218	21430.359	5.5	D6S (3H)4H
234.5627	-2.535	103608.909	4.5	5S (3G)2G	60989.444	4.5	4P (3H)4H	235.5256	-1.051	50157.452	4.5	D6S (3F)4F
234.5726	-3.154	108630.429	5.5	5S (11)2I	92695.374	2.5	4P (3F)4F	235.5256	-2.961	20516.960	2.5	D7 (5D)2D
234.5945	-7.368	23317.633	2.5	D5S2 (78)6S	65931.334	3.5	4P (3G)4G	235.5351	0.330	84844.834	2.5	D6S (3P)4P
234.5964	-3.605	21812.055	1.5	D6S (3P)4D	64425.408	2.5	4P (3F)2F	235.5414	-2.912	20830.582	2.5	D6S (3F)4P
234.6216	-2.195	85048.602	1.5	4D (5D)4D	42439.822	0.5	4P (5D)6F	235.5414	-2.912	85679.698	2.5	4D (5D)4G
234.6270	-1.085	31999.048	3.5	D7 (5D)2F	74606.841	2.5	4P (3D)2D	235.5664	-2.964	103127.770	2.5	5D (5D)4D
234.6637	-2.406	84938.180	1.5	4D (5D)6G	42334.822	2.5	4P (5D)6F	235.5816	-4.995	104593.270	5.5	5D (5D)6G
234.6637	-2.406	105291.010	3.5	4D (3F)4G	62689.880	2.5	4P (3F)4D	235.5816	-4.995	50212.826	2.5	D6S (3P)4P
234.6927	-1.367	84710.685	3.5	4D (5D)6G	42114.818	4.5	4P (5D)6F	235.6209	-2.395	20516.960	2.5	D7 (5D)2D
234.7135	-0.570	104119.710	7.5	4D (3H)2K	61527.616	6.5	4P (3H)4I	235.6248	-1.537	108804.667	3.5	5S (3D)4D
234.7206	-2.190	48039.090	2.5	D7 (5D)2D	90629.902	1.5	4P (3F)4S	235.6423	-2.012	22409.852	0.5	D6S (3P)4P
234.7413	-0.148	104174.270	5.5	4D (3H)4I	61587.214	5.5	4P (3H)4I	235.6438	-1.952	54902.315	1.5	D6S (3F)2P
234.7833	-1.569	105524.461	4.5	4D (3F)4H	62945.038	3.5	4P (3F)4D	235.6942	-0.469	50187.813	3.5	D6S (3F)4F
234.8109	-1.395	21711.917	3.5	D6S (3H)4H	64286.345	3.5	4P (3F)2F	235.6993	-0.228	33501.253	3.5	D6S (1G)2G
234.8115	-0.284	1872.567	4.5	D7 (5D)4F	44446.878	3.5	4P (5D)4D	235.7049	-0.135	84527.778	4.5	4D (5D)6G
234.8243	-3.212	25428.784	5.5	D6S (3G)4G	68000.788	4.5	4P (3G)2H	235.7268	-3.535	49506.934	1.5	D6S (3P)4P
234.8265	-0.675	50075.910	1.5	D6S (3F)4F	92647.510	1.5	4P (3F)4D	235.7697	-0.395	105063.590	5.5	4D (3F)4G
234.8303	-0.207	667.683	2.5	D6S (5D)6D	43238.586	2.5	4P (5D)6P	235.7702	-3.634	10230.290	0.5	5D (5D)4D
234.8332	-3.249	84685.198	3.5	4D (5D)4D	42114.818	4.5	4P (5D)6F	235.7771	-3.833	102802.312	2.5	6S (5D)4D
234.8659	-4.185	36126.387	1.5	D6S (3D)2D	78690.846	2.5	4P (1D)2D	235.7918	-4.887	57411.065	2.5	D5S2 (7S)4P
234.8920	-1.773	84527.778	4.5	4D (5D)6G	41968.046	5.5	4P (1D)2D	235.7957	-2.492	22409.852	0.5	D6S (3P)4P
234.9413	-4.671	104873.230	3.5	5D (5D)4D	92695.374	2.5	4P (3F)2D	235.8333	-1.804	50212.826	2.5	D6S (3F)4F
235.0027	-4.741	104588.710	1.5	5D (5D)6D	62322.431	3.5	4P (3H)2G	235.8949	-3.726	30764.485	3.5	D6S (3G)2G
235.0172	-0.082	104064.670	6.5	4D (3H)4I	62049.025	2.5	48P (7S)6P	235.9019	-0.536	50075.910	1.5	D6S (3F)4F
235.0182	-0.219	84938.180	1.5	4D (5D)6F	42401.302	1.5	4P (5D)6F	235.9019	-0.536	862.613	1.5	D6S (5D)6D
235.0228	-2.077	84870.863	2.5	4D (5D)4D	42334.822	2.5	4P (5D)6F	235.9113	-0.274	84710.685	3.5	4D (5D)6G
235.0522	-0.359	103878.340	7.5	4D (3H)4I	61347.614	7.5	4P (3H)4I	235.9113	-0.274	17171.917	3.5	D6S (3H)4H
235.0755	-2.706	85184.734	4.5	4D (5D)4G	42658.224	3.5	4P (5D)6P	235.9476	-4.408	26932.748	0.5	D6S (3F)2P
235.1202	-0.139	21430.359	5.5	D6S (3H)4H	63948.790	4.5	4P (3F)4G	235.9598	-0.591	21581.638	4.5	D6S (3H)4H
235.1569	-3.909	49506.934	1.5	D6S (3F)4P	92018.729	2.5	48P (5D)6F	235.9598	-0.591	36126.387	1.5	D6S (3D)2D
235.1667	-0.071	84844.834	2.5	4D (5D)6G	62083.108	4.5	4P (3H)2G	235.9999	-0.574	1872.567	4.5	D7 (5D)4F
235.1803	-2.248	50187.813	3.5	D6S (3F)4F	42334.822	2.5	4P (5D)6F	236.0293	-0.460	2430.097	3.5	D7 (5D)4F
235.1960	-0.562	50142.786	2.5	D6S (3F)4D	92695.374	2.5	4P (3F)2D	236.0513	0.704	103878.340	7.5	4D (3H)4I
								236.0532	-2.155	84685.198	3.5	4D (5D)4D
								236.0778	-0.572	105291.010	3.5	4D (3F)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
236.0900	-3.843	49506.934	1.5	D6S (3P)4F	91850.722	0.5	4SP(5D)6F	236.9880	-4.331	104873.230	3.5	5D (5D)4D
236.1304	-3.289	49506.934	1.5	D6S (3P)4F	91843.470	1.5	5P (5D)6F	236.9914	-3.420	105127.770	2.5	5D (5D)4D
236.1358	-2.007	27314.922	3.5	D6S (3F)2F	69650.484	2.5	4P (3G)2F	236.9955	0.757	84296.830	5.5	4D (5D)6G
236.1726	-0.828	21711.917	3.5	D6S (3H)4H	64040.886	3.5	4P (3F)4G	237.0138	-4.102	60270.339	3.5	D5S2(7S)4D
236.1737	-0.371	84296.830	5.5	4D (5D)6G	41968.046	5.5	4P (5D)6F	237.0261	-4.821	105449.540	3.5	5D (5D)4G
236.1830	-3.877	30764.485	3.5	D6S (3G)2G	73091.590	4.5	4P (1G)2G	237.0466	-3.062	20516.960	2.5	D7 (5D)2D
236.2020	-0.931	2430.097	3.5	D7 (5D)4F	44753.799	3.5	4P (5D)4F	237.0499	-1.169	3117.461	1.5	D7 (5D)4F
236.2118	-3.944	20340.300	5.5	4D (3F)2H	62662.244	5.5	4P (3H)2I	237.0612	-1.652	22939.358	2.5	D6S (3F)4F
236.2425	-2.387	10589.420	3.5	D6S (3F)4H	63272.976	2.5	4P (3F)4D	237.0875	-4.943	105630.750	2.5	5D (5D)4G
236.3382	-2.052	22810.357	3.5	D6S (3F)4H	63876.317	5.5	4P (3F)2G	237.0879	-3.780	105157.770	2.5	5D (5D)4D
236.3641	-1.999	21581.638	4.5	D6S (3H)4F	63876.317	5.5	4P (3F)4G	237.0942	-1.792	103751.660	5.5	4D (3H)4H
236.3812	-0.637	27314.922	3.5	D6S (3F)2F	69606.552	3.5	4P (3G)2F	237.1357	-4.767	21308.040	1.5	D7 (5D)2D
236.3861	0.632	84527.778	4.5	4D (5D)6G	42237.033	3.5	4P (5D)6F	237.1594	-1.841	86599.736	2.5	4D (5D)4F
236.4311	-0.889	30764.485	3.5	D6S (3G)2G	73054.881	2.5	4P (1G)2F	237.1657	-1.490	84266.556	3.5	4D (5D)6F
236.4330	-2.705	108804.667	3.5	5S (3D)4D	66522.304	2.5	4P (3G)4F	237.1776	-2.654	50075.910	1.5	D6S (3F)4F
236.4721	-3.898	21812.055	1.5	D6S (3P)4F	64087.418	2.5	4P (3F)4G	237.1839	-3.645	18886.780	0.5	D7 (5D)2P
236.4757	-4.846	104000.810	3.5	5D (5D)6P	92426.980	4.5	4P (3G)4D	237.1992	-1.639	50212.826	2.5	D6S (3F)4F
236.4759	-3.171	50157.452	4.5	D6S (3F)4F	61726.077	3.5	4P (3P)4D	237.2159	-3.658	50187.813	3.5	D6S (3F)4F
236.4829	-0.302	384.790	3.5	D6S (5D)6D	92432.136	5.5	4SP(5D)6F	237.2201	-1.018	50187.813	3.5	D6S (3F)4F
236.5048	-0.263	50157.452	4.5	D6S (3F)4F	42658.224	3.5	4P (5D)6P	237.2250	-0.945	105414.180	2.5	4D (3F)4G
236.5127	-4.035	31483.176	3.5	D6S (3D)4D	73751.282	4.5	4P (11)2H	237.2295	-1.287	50075.910	1.5	D6S (3F)4F
236.5128	-3.530	105230.290	0.5	5D (5D)4D	62945.038	3.5	4P (3F)4D	237.2336	-1.422	50142.786	2.5	D6S (3F)4F
236.5239	-4.762	105211.140	4.5	5D (5D)4G	72651.876	3.5	4P (3D)4D	237.2359	-2.333	20805.770	4.5	D7 (5D)2D
236.5394	-1.765	30388.542	4.5	D6S (3G)2G	72650.658	4.5	4P (3D)4F	237.2415	-3.881	104828.160	2.5	5D (5D)6D
236.5463	-3.375	30388.542	4.5	D6S (3G)2G	61726.077	3.5	4P (3P)4D	237.2629	-0.240	33466.463	4.5	D6S (1G)2G
236.5725	-2.626	103983.510	3.5	5S (3G)2G	61726.077	3.5	4P (3P)4D	237.2750	-4.990	108804.667	3.5	5S (3D)4D
236.5765	0.017	85495.304	2.5	4D (5D)6S	43238.586	2.5	4P (5D)6P	237.2790	-1.907	20830.582	2.5	D6S (3F)4F
236.5870	-4.230	104426.460	2.5	5D (5D)6F	62171.615	3.5	4SP(7S)6P	237.2806	-1.379	50142.786	2.5	D6S (3F)4F
236.5918	-1.104	50075.910	1.5	D6S (3F)4F	61347.614	7.5	4P (3H)4I	237.3162	-1.085	50157.452	4.5	D6S (3F)4F
236.5983	-0.077	103600.440	6.5	4D (3H)4H	61347.614	7.5	4P (3H)4I	237.3476	-3.483	60384.370	0.5	D5S2(7S)4D
236.6048	-1.471	30764.485	3.5	D6S (3G)2G	73016.147	3.5	4P (1G)2F	237.3610	-0.598	50212.826	2.5	D6S (3F)4F
236.6060	-3.420	21308.040	1.5	D7 (5D)2D	63559.488	0.5	4P (5D)4F	237.3736	-0.420	0.000	4.5	D6S (5D)6D
236.6593	-1.129	2837.950	2.5	D7 (5D)4F	45079.879	2.5	4P (5D)4F	237.3757	-2.680	20830.582	2.5	D6S (3F)4F
236.6697	-2.933	104411.690	4.5	5D (5D)6D	62171.615	3.5	4SP(7S)6P	237.3869	-4.051	50187.813	3.5	D6S (3F)4F
236.6876	-1.509	63948.790	3.5	4P (3F)4G	78487.153	1.5	4P (1D)2D	237.4126	-3.753	49100.976	0.5	D6S (3F)4F
236.7024	-1.638	36252.918	2.5	D6S (3D)2D	61035.287	0.5	4P (3P)4F	237.4129	-2.322	85728.806	1.5	4D (5D)4S
236.7239	-4.819	103265.694	0.5	6S (5D)4D	43238.586	2.5	4P (5D)6P	237.4590	-1.673	33501.253	3.5	D6S (1G)2G
236.7583	-2.882	85462.862	3.5	4D (5D)4G	61527.616	6.5	4P (3H)4I	237.4641	-2.707	91199.746	0.5	5P (3D)2F
236.7596	-0.044	103751.660	5.5	4D (3H)4H	60625.449	5.5	4P (3H)4G	237.4782	-1.755	103608.909	4.5	5S (3G)2G
236.8009	-1.959	102842.119	4.5	5S (3G)4G	62945.038	3.5	4P (3G)4H	237.4874	-0.597	50187.813	3.5	D6S (3F)4F
236.8057	-0.692	50142.786	2.5	D6S (3F)4F	62945.038	3.5	4P (3G)4H	237.5071	-0.575	104174.270	5.5	4D (3H)4I
236.8066	-3.323	108804.667	3.5	5S (3D)4D	62945.038	3.5	4P (3G)4H	237.5162	-2.060	84424.370	1.5	4D (5D)6P
236.8235	-1.393	84870.863	2.5	4D (5D)4D	62945.038	3.5	4P (3G)4H	237.5193	-0.783	3117.461	1.5	D7 (5D)4F
236.8380	-0.804	105155.090	4.5	4D (3F)4G	62945.038	3.5	4P (3G)4H	237.5275	-2.805	25428.784	5.5	D6S (3G)4G
236.8421	-4.214	104380.940	3.5	5D (5D)6F	62171.615	3.5	4SP(7S)6P	237.5345	-0.549	50187.813	3.5	D6S (3F)4F
236.8596	-0.626	2837.950	2.5	D7 (5D)4F	45044.168	1.5	4P (5D)4D	237.5513	-3.313	54273.641	4.5	D5S2(7S)4G
236.9045	-1.844	50075.910	1.5	D6S (3F)4F	92274.120	2.5	4P (3P)4F	237.5545	-1.355	50142.786	2.5	D6S (3F)4F
236.9200	-2.687	25805.328	4.5	D6S (3G)4G	68000.788	4.5	4P (3G)2H	237.5890	-4.825	103118.400	1.5	6S (5D)4D
236.9240	-1.459	22637.205	4.5	D6S (3F)4F	64831.943	4.5	4P (3F)2G	237.6054	-3.415	54283.220	3.5	D5S2(7S)4G
236.9669	-0.423	50142.786	2.5	D6S (3F)4F	92329.890	2.5	4SP(5G)4F	237.6066	-1.143	50142.786	2.5	D6S (3F)4F
236.9697	-3.722	84844.834	2.5	4D (5D)6G	42658.224	3.5	4P (5D)6P	237.6106	0.026	103600.440	6.5	4D (3H)4H
236.9778	-2.735	108648.695	6.5	5S (11)2I	66463.528	5.5	4P (3G)4H	237.6286	-1.623	50212.826	2.5	D6S (3P)4F
236.9853	-1.135	86416.333	3.5	4D (5D)4F	44232.512	4.5	4P (5D)4F	237.6371	-4.207	49506.934	1.5	D6S (3F)4F
								237.6572	-0.461	50212.826	2.5	D6S (3P)4F
								237.6907	-4.279	85679.696	2.5	4D (3D)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	LOGGF	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL					
237.6913	-4.443	60445.275	2.5	D5S2(7S)4D	102503.810	1.5	4SP(3D)2D	238.3556	-4.113	50212.826	2.5	D6S	(3P)4P	92154.165	3.5	4SP(5D)6F					
237.7248	-3.155	47674.721	1.5	D7	(5D)2D	89727.342	2.5	4P	(3F)4G	238.3961	3.5	D5S2(7S)4G	96217.420	3.5	4SP(5P)4D						
237.7257	-1.828	84710.685	3.5	4D	(5D)6G	46258.224	2.5	4P	(5D)6P	238.4034	0.5	6S	(3D)4D	61332.764	1.5	4P	(3P)4F				
237.7865	-2.426	18360.646	1.5	D7	(5D)2F	60402.342	2.5	4P	(3P)4F	238.4097	-3.731	50157.452	4.5	D6S	(3F)4F	92089.260	3.5	4SP(5G)4H			
237.7881	-3.367	108630.429	5.5	5S	(11)21	66589.008	4.5	4P	(3G)4H	238.4102	-3.273	84266.556	3.5	4D	(5D)6P	42334.822	2.5	4P	(5D)6F		
237.8251	-1.300	102842.119	4.5	5S	(3G)4G	60807.230	4.5	4P	(3G)4H	238.4259	1.758	50187.813	3.5	D6S	(3F)4F	92116.780	4.5	4SP(5G)4H			
237.8554	-1.049	84266.556	3.5	4D	(5D)6P	69650.484	2.5	4P	(3G)2F	238.4303	-2.851	104873.230	3.5	5D	(3D)4D	62945.038	3.5	4P	(3F)4D		
237.8698	-0.682	84683.198	3.5	4D	(5D)6P	42237.033	3.5	4P	(5D)6F	238.4388	-1.053	3117.461	1.5	D7	(5D)4F	45044.168	1.5	4P	(5D)4D		
237.8811	-4.545	103118.400	1.5	6S	(5D)4D	42658.224	3.5	4P	(5D)6P	238.4423	-1.595	86710.837	1.5	4D	(5D)4F	44784.761	2.5	4P	(5D)4D		
237.8920	-1.548	84424.370	1.5	4D	(5D)6P	62293.164	6.5	4P	(3H)2K	238.4450	-2.030	84326.912	2.5	4D	(5D)6P	42401.302	1.5	4P	(5D)6F		
237.8968	-0.337	104315.370	6.5	4D	(3H)2K	61093.413	2.5	4P	(3F)2D	238.4483	-1.556	103983.510	3.5	5S	(3G)2G	62065.521	3.5	4P	(3F)4F		
237.8997	-3.150	103608.909	4.5	5S	(3G)2G	61587.214	5.5	4P	(3H)4I	238.4883	-3.002	238.5885	-1.595	103983.510	3.5	5S	(3G)2G	62065.521	3.5	4P	(3F)4F
237.9003	-1.041	22810.357	3.5	D6S	(3F)4F	64831.943	4.5	4P	(3F)2G	238.5005	-1.595	238.5005	-1.595	103983.510	3.5	5S	(3G)2G	62065.521	3.5	4P	(3F)4F
237.9141	-1.273	25981.629	3.5	D6S	(3G)4G	68000.788	4.5	4P	(3G)2H	238.5885	-2.264	238.6208	-2.966	209399.358	2.5	D6S	(3F)4F	64834.073	1.5	4P	(3P)2F
237.9205	-1.747	105291.010	3.5	4D	(3F)4F	62272.976	2.5	4P	(3F)4D	238.6375	0.058	86124.301	4.5	4D	(5D)4F	44232.512	4.5	4P	(5D)4F		
237.9276	-0.910	2430.097	3.5	D7	(5D)4F	44446.878	3.5	4P	(5D)4D	238.6626	-1.503	30764.485	3.5	D6S	(3G)2G	72651.876	3.5	4P	(3D)4D		
237.9304	-0.960	37227.326	0.5	D6S	(1S)2S	79243.600	1.5	4P	(1D)2P	238.6651	-2.679	105763.270	5.5	4D	(3F)2H	63876.317	5.5	4P	(3F)4G		
237.9311	-0.622	104174.270	5.5	4D	(3H)4I	62158.110	4.5	4P	(3F)4F	238.6695	-5.408	30764.485	3.5	D6S	(3G)2G	72650.658	4.5	4P	(3D)4F		
237.9346	-3.968	104705.420	3.5	5D	(5D)6D	62689.880	2.5	4P	(3P)4D	238.6743	-1.781	102842.119	4.5	5S	(3G)4G	60956.781	3.5	4P	(3H)4G		
237.9399	-0.744	44915.046	3.5	D6S	(1F)2F	86929.649	3.5	4P	(3P)4D	238.6794	-1.815	36252.918	2.5	D6S	(3D)2D	78137.364	3.5	4P	(1D)2F		
237.9418	-0.635	50157.452	4.5	D6S	(3F)4F	92171.716	4.5	4P	(3H)4I	238.6869	-4.390	104828.160	2.5	5D	(5D)6D	62945.038	3.5	4P	(3F)4D		
237.9477	-1.399	103600.440	6.5	4D	(3H)4H	61587.214	5.5	4P	(3H)4I	238.6886	-3.140	103608.909	4.5	5S	(3G)2G	61726.077	3.5	4P	(3P)4D		
237.9506	-0.270	50212.826	2.5	D6S	(3P)4F	92225.538	1.5	5P	(5D)4P	238.6984	-2.625	104174.270	5.5	4D	(3H)4I	62293.164	6.5	4P	(3H)2I		
237.9582	-4.012	50144.786	2.5	D6S	(3F)4F	92154.165	3.5	4SP(5G)6F	238.7278	-3.842	50142.786	2.5	D6S	(3F)4F	92018.729	2.5	4SP(5D)6F				
237.9708	-2.366	50157.452	4.5	D6S	(3F)4F	92166.600	5.5	4SP(5G)6F	238.7369	0.033	85495.304	2.5	4D	(5D)6S	43620.957	1.5	4P	(1G)2H			
237.9767	-3.772	60441.033	1.5	D5S2(7S)4D	102449.100	2.5	4SP(3D)2D	238.7643	-1.131	84527.778	4.5	4D	(5D)6G	42658.224	3.5	4P	(3D)6F				
238.0008	-3.373	54275.637	2.5	D5S2(7S)4G	96279.490	2.5	4SP(3G)2F	238.7848	-4.482	104828.160	2.5	5D	(5D)6D	62962.205	1.5	4P	(3P)4D				
238.0028	-4.362	60445.275	2.5	D5S2(7S)4D	102449.100	2.5	4SP(3D)2D	238.8228	-0.854	20830.582	2.5	D6S	(3P)4F	62689.880	2.5	4P	(3P)4D				
238.0221	-1.936	44929.550	2.5	D6S	(1F)2F	86929.649	3.5	4P	(3P)4D	238.8399	-0.649	30805.770	4.5	D7	(5D)2H	62662.244	5.5	4P	(3H)2I		
238.0438	-3.799	54283.220	3.5	D5S2(7S)4G	96279.490	2.5	4SP(3G)2F	238.8473	-2.923	30764.485	3.5	D6S	(3G)2G	72616.490	2.5	4P	(3D)4D				
238.0658	-4.994	102394.718	3.5	6S	(5D)4D	60402.342	2.5	4P	(3F)4F	238.8485	-2.777	105127.770	2.5	5D	(5D)4D	63272.976	2.5	4P	(3F)4D		
238.0675	-1.008	84326.912	2.5	4D	(5D)6P	42334.822	2.5	4P	(5D)6F	238.8606	-2.952	102842.119	4.5	5S	(3G)4G	60989.444	4.5	4P	(3H)4H		
238.0762	-0.619	667.683	2.5	D6S	(5D)6D	42658.224	3.5	4P	(5D)6P	238.8614	-4.182	44915.046	3.5	D6S	(1F)2F	86767.577	2.5	4P	(3P)4D		
238.1012	-1.765	27620.412	2.5	D6S	(3F)2F	69606.552	3.5	4P	(3G)2F	238.8630	-0.096	384.790	3.5	D6S	(5D)6D	42237.033	3.5	4P	(5D)6F		
238.1139	-1.290	50187.813	3.5	D6S	(3F)4F	92171.716	4.5	4P	(3F)2G	238.8685	-3.421	48039.090	2.5	D7	(5D)2D	89890.373	3.5	4P	(3F)4G		
238.1959	-0.460	86416.333	3.5	4D	(5D)4F	44446.878	3.5	4P	(5D)4D	238.9327	-3.974	50075.910	1.5	D6S	(3F)4F	44753.799	1.5	4SP(5D)6F			
238.2039	-0.591	0	0.000	4.5	D6S	(5D)6D	41968.046	5.5	4P	(5D)6F	238.9442	-0.714	44929.550	2.5	D6S	(1F)2F	86767.577	2.5	4P	(3P)4D	
238.2135	-3.503	50187.813	3.5	D6S	(3F)4F	92154.165	3.5	4SP(5G)6F	238.9789	-2.836	103983.510	3.5	5S	(3G)2G	62151.561	2.5	4P	(3F)4F			
238.2215	-2.568	21308.040	1.5	D7	(5D)2D	66239.200	4.5	4SP(3G)2H	238.9848	-4.321	50187.813	3.5	D6S	(3F)4F	92018.729	2.5	4SP(5D)6F				
238.2298	-1.494	30388.542	4.5	D6S	(3G)2G	72332.024	3.5	4P	(3D)4F	238.9866	-1.547	26170.181	5.5	D6S	(3H)2H	68000.788	4.5	4P	(3G)2H		
238.2358	-1.737	3117.461	1.5	D7	(5D)4F	45079.879	2.5	4P	(5D)4F	238.9908	-4.113	54232.195	5.5	D5S2(7S)4G	96062.060	5.5	4SP(3G)2H				
238.2523	-1.095	102584.963	5.5	5S	(3G)4G	60625.449	5.5	4P	(3H)4F	238.9946	-4.376	104000.810	3.5	5D	(5D)6P	62171.615	3.5	4SP(7S)6P			
238.2534	-1.676	50157.452	4.5	D6S	(3F)4F	92116.780	4.5	4SP(5G)4H	239.0098	0.879	104119.710	7.5	4D	(3H)2K	62293.164	6.5	4P	(3H)2I			
238.2724	-2.964	54283.220	3.5	D5S2(7S)4G	96239.200	4.5	4SP(3G)2H	239.0163	-2.899	103983.510	3.5	5S	(3G)2G	62158.110	4.5	4P	(3F)4F				
238.2807	-1.127	102842.119	4.5	5S	(3G)4G	60887.598	5.5	4P	(3H)4H	239.0210	-1.748	31364.440	1.5	D6S	(3D)4D	73189.110	1.5	4P	(3D)2P		
238.2901	-0.593	20340.300	5.5	D7	(5D)2H	62293.164	6.5	4P	(3H)2I	239.0310	-1.237	31364.440	1.5	D6S	(3D)4D	73189.110	1.5	4P	(3D)2P		
238.3062	-1.282	384.790	3.5	D6S	(5D)6D	42334.822	2.5	4P	(5D)6F	239.0539	-1.421	20340.300	5.5	D7	(5D)2H	62158.110	4.5	4P	(3F)4F		
238.3116	-2.593	105414.180	2.5	4D	(3F)4G	63465.109	1.5	4P	(3F)4D	239.0579	-0.319	86599.738	2.5	4D	(5D)4F	44784.761	2.5	4P	(5D)4D		
238.3140	-4.698	104120.270	2.5	5D	(5D)6P	62171.615	3.5	4SP(7S)6P	239.0788	-3.938	105763.270	5.5	4D	(3F)2H	63948.790	4.5	4P	(3F)4G			
238.3218	-2.859	49100.976	0.5	D6S	(3P)4F	91048.256	1.5	5P	(5D)4D	239.0788	-3.938	105763.270	5.5	4D	(3F)2H	63948.790	4.5	4P	(3F)4G		
238.3245	-0.894	2837.950	2.5	D7	(5D)4F	44784.761	2.5	4P	(5D)4F	239.1043	-2.458	505048.602	1.5	4D	(5D)4D	43238.586	2.5	4P	(5D)6F		
238.3264	-3.191	50142.786	2.5	D6S	(3F)4F	92089.260	3.5	4SP(5G)4H	239.1278	-4.159	80212.826	2.5	D6S	(3P)4F	92018.729	2.5	4SP(5D)6F				
238.3417	-3.843	54273.641	4.5	D5S2(7S)4G	96217.420	3.5	4SP(5P)4D	239.1303	-2.333	20516.960	2.5	D7	(5D)2D	62322.431	3.5	4P	(3H)2G				
238.3471	-4.040	50075.910	1.5	D6S	(3F)4F	92018.729	2.5	4SP(5D)6F	239.1378	-3.108</											

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
23031.300	1.5	23031.300	1.5	D6S	239.9961	-4.795	20516.960	2.5	D7	64834.073	1.5	4P
23031.457	-3.426	23031.457	3.5	D6S	239.9990	-2.536	21308.040	1.5	D7	44232.512	4.5	4P
239.1478	-1.594	2430.097	3.5	D7	239.9990	-2.536	21308.040	1.5	D7	44232.512	4.5	4P
239.1549	-0.954	31387.948	2.5	D6S	240.0050	0.796	104315.370	6.5	4D	73189.110	1.5	4P
239.1736	-2.508	49100.976	0.5	D6S	240.0054	-2.229	21812.055	1.5	D6S	90898.873	1.5	4P
239.1925	-4.124	54063.459	0.5	D6S	240.0279	-0.795	22637.205	4.5	D6S	98588.050	1.5	4SP
239.2071	-7.315	23317.633	2.5	D5S2	240.0337	-2.956	105524.461	4.5	4D	65109.679	3.5	4P
239.2279	-2.798	54273.641	4.5	D5S2	240.0344	-0.060	26352.766	4.5	D6S	83876.317	5.5	4P
239.2334	-3.145	73114.922	3.5	D6S	240.0770	-3.190	105589.420	3.5	4D	68000.788	4.5	4P
239.2438	-4.205	10318.400	1.5	6S	240.1118	-3.994	20516.960	2.5	D7	63948.790	4.5	4P
239.2819	-4.488	103950.590	4.5	5D	240.1242	-1.599	44915.046	3.5	D6S	62151.561	2.5	4P
239.2891	-1.770	102584.963	5.5	5S	240.1252	-4.080	84870.863	2.5	4D	86547.490	2.5	4P
239.3036	-2.473	23031.300	1.5	D6S	240.1292	0.235	86416.333	3.5	4D	44784.761	2.5	4P
239.3152	-4.330	50142.786	2.5	D6S	240.1328	-1.038	86710.837	1.5	4D	45079.879	2.5	4P
239.3247	-1.009	104064.670	6.5	4D	240.1346	-2.722	50212.826	2.5	D6S	91843.470	1.5	5P
239.3610	-3.239	105230.290	0.5	5D	240.1487	-0.806	31387.948	2.5	D6S	73016.147	3.5	4P
239.3885	-2.822	104705.420	3.5	5D	240.2079	0.144	44929.550	2.5	D6S	86547.490	2.5	4P
239.4003	-0.991	83726.364	4.5	4D	240.2171	-3.075	66126.387	1.5	D6S	77742.730	2.5	4P
239.4174	-1.775	31387.948	2.5	D6S	240.2246	-1.268	22810.357	3.5	D6S	64425.408	2.5	4P
239.4332	-2.693	31999.048	3.5	D7	240.2270	-1.295	37227.326	0.5	D6S	78841.960	0.5	4P
239.4627	-2.490	21812.055	1.5	D6S	240.2282	-0.242	44929.550	2.5	D6S	86543.974	1.5	4P
239.4948	-1.880	20340.300	5.5	D7	240.2448	-0.242	83726.364	4.5	4D	44446.878	3.5	4P
239.5140	-1.405	49100.976	0.5	D6S	240.2599	-2.016	2837.950	2.5	D7	62125.600	1.5	4P
239.5392	-2.681	58666.258	3.5	D6S	240.2616	-3.402	20516.960	2.5	D7	42114.818	4.5	4P
239.5420	-0.950	667.683	2.5	D6S	240.2629	-0.161	84266.556	3.5	4D	42658.224	3.5	4P
239.5613	-2.427	84131.563	0.5	4D	240.2754	-2.361	84844.834	2.5	4D	84238.976	2.5	4P
239.5626	0.446	384.790	3.5	D6S	240.3100	-4.210	104873.230	3.5	5D	63272.586	2.5	4P
239.5768	-3.798	20516.960	2.5	D7	240.3189	-4.643	83713.536	3.5	4D	42114.818	4.5	4P
239.6199	-4.187	54275.637	2.5	D5S2	240.3374	-3.856	102584.963	5.5	5S	60989.444	4.5	4P
239.6635	-3.940	54283.220	3.5	D5S2	240.3488	-0.560	103731.660	5.5	4D	62158.110	4.5	4P
239.6719	-0.722	25805.328	4.5	D6S	240.3701	-4.795	105630.750	2.5	5D	64040.886	3.5	4P
239.6840	-4.478	102802.312	2.5	6S	240.3764	-0.948	83990.063	1.5	4D	42401.302	1.5	4P
239.7108	-3.175	54063.459	0.5	D6S	240.3835	-1.531	107394.718	3.5	6S	60807.230	4.5	4P
239.7239	-3.528	49506.934	1.5	D6S	240.3838	-4.891	30264.718	3.5	6S	42237.033	3.5	4P
239.7312	-4.557	50142.786	2.5	D6S	240.3972	-0.329	103878.340	7.5	4D	62293.164	6.5	4P
239.7503	-2.317	102584.963	5.5	5S	240.4131	-4.316	54275.637	2.5	D5S2	95858.050	1.5	4SP
239.7765	-3.452	49506.934	1.5	D6S	240.4432	-0.898	862.613	1.5	D6S	63948.790	4.5	4P
239.7826	-1.250	84131.563	0.5	4D	240.4521	-1.591	105524.461	4.5	4D	63948.790	4.5	4P
239.7901	-3.140	31364.440	1.5	D6S	240.4544	-1.794	83812.316	2.5	4D	42237.033	3.5	4P
239.8027	-3.854	48039.090	2.5	D7	240.4751	-2.128	31483.176	3.5	D6S	73054.881	2.5	4P
239.8198	-4.389	102842.119	4.5	5S	240.4887	0.236	667.683	2.5	D6S	42237.033	3.5	4P
239.8405	-3.987	27620.412	2.5	D6S	240.4982	0.263	44915.046	3.5	D6S	86482.750	3.5	4P
239.8650	0.353	86124.301	4.5	4D	240.5367	-3.008	49506.934	1.5	D6S	91070.547	2.5	5P
239.9031	-3.158	105230.290	0.5	5D	240.5570	-3.658	104828.160	2.5	5D	63272.976	2.5	4P
239.9153	-0.121	84326.912	2.5	4D	240.5822	-0.915	44929.550	2.5	D6S	45044.168	1.5	4P
239.9161	-1.486	103751.660	5.5	4D	240.5993	-1.400	83990.063	1.5	4D	63272.976	2.5	4P
239.9233	-2.015	3117.461	1.5	D7	240.6090	-1.932	20516.960	2.5	D7	42439.822	0.5	4P
239.9242	-0.071	667.683	2.5	D6S	240.6092	-2.711	105589.420	3.5	4D	64040.886	3.5	4P
239.9254	-1.108	31387.948	2.5	D6S	240.6390	-2.512	103608.909	4.5	5S	62065.521	3.5	4P
239.9269	-0.386	86710.837	1.5	4D	240.6510	-3.261	49506.934	1.5	D6S	62065.521	3.5	4P
239.9500	-3.449	105127.770	2.5	5D	240.6662	-0.140	862.613	1.5	D6S	91048.256	1.5	5P
239.9508	-0.267	86416.333	3.5	4D	240.6993	-0.061	31483.176	3.5	D6S	42401.302	1.5	4P
239.9591	-0.914	103983.510	3.5	5S	240.7046	-5.829	20516.960	2.5	D7	73016.147	3.5	4P
239.9647	-0.543	31483.176	3.5	D6S	240.7228	-0.559	49100.976	0.5	D6S	62049.025	2.5	4SP
239.9928	-3.250	83990.063	1.5	4D	240.7409	-0.733	103608.909	4.5	5S	90629.902	1.5	4P
					240.7598	-1.589	105398.852	5.5	4D	63876.317	5.5	4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
240.7685	-3.995	21308.040	1.5	D7 (5D)2D	62829.075	0.5	4P (3P)4D	241.6882	-4.175	104828.160	2.5	5D (5D)6D
240.7754	-0.432	86599.738	2.5	4D (5D)4F	45079.879	2.5	4P (5D)4F	241.6925	-3.884	50212.826	2.5	D6S (3P)4P
240.7939	-1.265	20805.770	4.5	D7 (5D)2H	62322.431	3.5	4P (3H)2G	241.6936	-4.452	105449.540	3.5	5D (5D)4G
240.7952	-6.317	23317.633	2.5	D5S2(7S)6P	64834.073	1.5	4P (3P)2P	241.7115	-2.960	57411.065	2.5	D5S2(7S)4F
240.8072	-3.409	57493.321	1.5	D5S2(7S)6P	99007.700	0.5	4SP(5D)4D	241.7508	-3.191	20805.770	4.5	D7 (5D)2H
240.8208	-1.438	104174.270	5.5	4D (3H)4I	62662.244	5.5	4P (3H)2I	241.7821	-0.499	29239.358	2.5	D6S (3F)4F
240.8651	-0.011	86710.837	1.5	4D (5D)4F	45206.450	0.5	4P (5D)4D	241.7827	-3.886	54870.528	2.5	D6S (3H)2H
240.8790	0.171	105589.420	3.5	4D (3F)4G	64087.418	2.5	4P (3F)4G	241.7870	0.109	26170.181	5.5	D6S (3H)2H
240.8862	-4.465	105449.540	3.5	5D (5D)4G	63948.790	4.5	4P (3F)4G	241.8100	-0.829	103291.010	3.5	4D (3F)4G
240.9340	-3.016	49100.976	0.5	D6S (3P)4P	90593.497	1.5	5P (5D)6F	241.8170	-2.331	20830.582	2.5	D6S (3P)4P
240.9379	-1.652	20830.582	2.5	D6S (3P)4P	62322.431	3.5	4P (3H)2G	241.8437	0.045	86416.333	3.5	4D (5D)4F
240.9497	-2.726	36252.918	2.5	D6S (3D)2D	77742.730	2.5	4P (1D)2F	241.8533	-4.212	105211.140	4.5	5D (5D)4G
240.9525	-2.244	83726.364	4.5	4D (5D)6D	42237.033	3.5	4P (5D)6F	241.8666	-0.794	49506.934	1.5	D6S (3P)4P
240.9623	-4.346	57411.065	2.5	D5S2(7S)4F	98938.710	3.5	4P (1G)2F	241.8729	-1.176	31811.822	2.5	D7 (5D)2F
240.9694	-1.719	54870.528	2.5	D6S (3F)2F	96356.960	3.5	4SP(3G)2F	241.8845	-1.860	102842.119	4.5	58 (3G)4G
240.9706	-1.607	25787.598	1.5	D6S (3P)2P	67273.826	1.5	4P (3F)2D	241.8889	-3.527	47674.721	1.5	D7 (5D)2D
240.9860	0.370	105524.461	4.5	4D (3F)4H	64425.408	2.5	4P (3F)2F	241.9005	-0.315	103414.180	2.5	4D (3F)4G
240.9953	-5.174	27620.412	2.5	D6S (3F)2F	64040.886	3.5	4P (3F)4G	241.9343	-2.841	20830.582	2.5	D6S (3P)4F
241.0213	-0.642	83812.316	2.5	4D (5D)6D	69102.380	2.0	4S(5S)4P	241.9458	-3.214	80177.975	1.5	5S (5D)4D
241.0271	-0.292	83713.536	3.5	4D (5D)6D	42334.822	2.5	4P (5D)6F	241.9563	-3.113	84938.180	1.5	4D (5D)6G
241.0301	-1.361	22810.357	3.5	D6S (3F)4F	42237.033	3.5	4P (5D)6F	241.9799	-2.443	54904.222	3.5	D6S (3F)2F
241.0415	-1.693	30764.485	3.5	D6S (3G)2G	72238.513	2.5	4P (3D)4F	241.9893	-1.795	26237.205	4.5	D6S (3F)4F
241.0527	-0.001	862.613	1.5	D6S (5D)6D	42334.822	2.5	4P (5D)6F	242.0146	-1.820	103600.440	6.5	4D (3H)4H
241.1069	-0.294	977.033	0.5	D6S (5D)6D	42439.822	0.5	4P (5D)6F	242.0408	-4.167	18360.646	1.5	D7 (5D)2P
241.1177	-2.629	21812.055	1.5	D6S (3F)4P	63272.976	2.5	4P (3F)4D	242.0498	-4.348	102394.718	3.5	6S (5D)4D
241.1318	-2.433	103751.660	5.5	4D (3H)4H	62292.976	6.5	4P (3H)2I	242.0864	-3.802	20830.582	2.5	D6S (3P)4F
241.1348	-4.621	20516.960	2.5	D7 (5D)2D	61974.933	1.5	4SP(7S)6P	242.0946	-3.711	103983.510	3.5	5S (3G)2G
241.1653	-0.248	54904.222	3.5	D6S (3F)2F	96356.960	3.5	4SP(3G)2F	242.1365	-3.427	103616.909	4.5	5S (3G)2G
241.1765	-1.422	103608.909	4.5	5S (3G)2G	62158.110	4.5	4P (3F)4F	242.1817	-0.879	105155.090	4.5	4D (3F)4G
241.1808	0.618	105398.852	5.5	4D (3F)4H	63948.790	4.5	4P (3F)4G	242.1901	-2.208	20805.770	4.5	D7 (5D)2H
241.2009	-0.674	84685.198	3.5	4D (5D)4D	43238.586	2.5	4P (5D)6P	242.1918	-1.920	22810.357	3.5	D6S (3F)4F
241.2634	-3.348	104380.940	3.5	5D (5D)6F	62945.038	3.5	4P (3F)4D	242.1932	-2.557	57493.321	1.5	D5S2(7S)4D
241.2834	-3.952	104705.420	3.5	5D (5D)6D	63272.976	2.5	4P (3F)4D	242.2688	0.029	31387.948	2.5	D6S (3D)4D
241.3022	-2.387	57578.484	0.5	D5S2(7S)4P	99007.700	0.5	4SP(5D)4D	242.2929	-1.005	37227.326	0.5	D6S (1S)2S
241.3114	-2.873	85048.602	1.5	4D (5D)4D	43620.957	1.5	4P (5D)6P	242.2934	-1.953	20805.770	4.5	D7 (5D)2H
241.3311	-0.365	977.033	0.5	D6S (5D)6D	42401.302	1.5	4P (5D)6F	242.3210	-0.118	31364.440	1.5	D6S (3D)4D
241.3499	-0.378	86710.837	1.5	4D (5D)4F	45289.801	1.5	4P (5D)4F	242.3218	-0.984	102842.119	4.5	5S (3G)4G
241.3912	-3.870	20830.582	2.5	D6S (3P)4P	62244.520	1.5	4P (3F)4F	242.3499	-0.180	105291.010	3.5	4D (3F)4G
241.3994	0.717	105288.847	6.5	4D (3F)4H	63876.317	5.5	4P (3F)4G	242.3512	-1.606	84870.863	2.5	4D (5D)4D
241.4083	-1.183	83812.316	2.5	4D (5D)6D	42401.302	1.5	4P (5D)6F	242.3688	-3.647	20340.300	5.5	D7 (5D)2H
241.4105	-1.835	21251.608	6.5	D6S (3H)4H	62662.244	5.5	4P (3H)2I	242.3914	-1.194	31811.822	2.5	D7 (5D)2F
241.4202	-0.373	54870.528	2.5	D6S (3F)2F	96279.490	2.5	4SP(3G)2F	242.4166	0.398	22637.205	4.5	D6S (3F)4F
241.4510	-1.802	22637.205	4.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G	242.4205	-0.067	103524.461	4.5	4D (3F)4H
241.4583	-1.777	104064.670	6.5	4D (3H)4I	62662.244	5.5	4P (3H)2I	242.4205	-0.067	103524.461	4.5	4D (3F)4H
241.5069	-0.500	23031.300	1.5	D6S (3P)4P	64425.408	2.5	4P (3H)2I	242.4288	-3.200	80346.016	0.5	5S (5D)4D
241.5195	-3.242	49506.934	1.5	D6S (3P)4P	90898.873	1.5	4P (3F)2F	242.4392	-0.284	20830.582	2.5	D6S (3P)4F
241.5785	-2.405	21308.040	1.5	D6S (5D)6D	62689.880	2.5	4P (3F)4D	242.4499	-2.724	21711.917	3.5	D6S (3H)4H
241.5967	-1.199	83713.536	3.5	4D (5D)6D	42334.822	2.5	4P (5D)6F	242.4516	-3.065	85679.698	2.5	4D (5D)4G
241.6051	-3.238	31811.822	2.5	D7 (5D)2F	73189.110	1.5	4P (3D)2P	242.4516	-3.065	21430.359	5.5	D6S (3H)4H
241.6057	-3.494	54902.315	1.5	D6S (3P)2P	96279.490	2.5	4SP(3G)2F	242.4591	-0.113	31387.948	2.5	D6S (3D)4D
241.6168	-1.610	54904.222	3.5	D6S (3F)2F	96279.490	2.5	4SP(3G)2F	242.4662	-1.696	85462.862	3.5	4D (5D)4G
241.6284	-1.251	105414.180	2.5	4D (3F)4G	64040.886	3.5	4P (3F)4G	242.4950	-2.509	79885.493	2.5	5S (5D)4D
241.6447	0.140	86124.301	4.5	4D (5D)4F	44753.799	3.5	4P (5D)4F	242.5042	-2.509	84844.834	2.5	4D (5D)6G
241.6715	-1.118	30764.485	3.5	D6S (3G)2G	72130.390	4.5	4P (1G)2H	242.5362	-3.631	20830.582	2.5	D6S (3P)4F
241.6719	-5.914	20805.770	4.5	D7 (5D)2H	62171.615	3.5	4SP(7S)6P	242.5364	-1.292	26055.423	2.5	D6S (3G)4G
241.6862	-2.614	21581.638	4.5	D6S (3H)4H	62945.038	3.5	4P (3F)4D	242.5687	-0.661	25787.598	1.5	D6S (3P)2P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL		
242.5911	-2.462	20516.960	2.5	D7 (5D)2D	61726.077	3.5	4P (3F)4D	243.2700	-1.251	32875.646	6.5	D6S (11)2I		
242.6077	-0.129	105155.090	4.5	4D (3F)4G	63948.790	4.5	4P (3F)4G	243.2705	-2.693	57411.065	2.5	D5S2(7S)4P		
242.6193	-1.823	31811.822	2.5	D7 (5D)2F	73016.147	3.5	4P (1G)2F	243.2744	-0.840	54902.315	1.5	D6S (3P)2F		
242.6236	-4.077	105291.010	3.5	4D (3F)4G	64087.418	2.5	4P (3F)4G	243.2794	-0.895	31999.048	3.5	D7 (5D)2F		
242.6435	-4.392	30764.485	3.5	D6S (3G)2G	71964.710	2.5	4P (3D)4P	243.2857	-3.100	54904.222	3.5	D6S (3F)2F		
242.6939	-2.150	57578.484	0.5	D5S2(7S)4P	98770.140	1.5	4P (5D)4D	243.2874	0.599	32875.646	6.5	D6S (11)2I		
242.7056	-0.430	88157.116	1.5	4D (5D)4P	46967.444	2.5	4P (5D)4P	243.2893	1.569	58666.258	3.5	D6S (1G)2G		
242.7065	-4.971	60384.370	0.5	D5S2(7S)4D	101573.900	1.5	4P (5D)4P	243.2919	-2.307	103751.660	5.5	4D (3H)4H		
242.7195	-1.727	20340.300	5.5	D7 (5D)2H	61527.616	6.5	4P (3H)4I	243.3043	-1.119	84326.912	2.5	4D (5D)6P		
242.7200	-0.256	105063.550	5.5	4D (3F)4G	63876.317	3.5	4P (3F)4G	243.3129	-4.794	105127.770	2.5	5D (5D)4D		
242.7285	-0.282	84424.370	1.5	4D (5D)6P	43238.586	2.5	4P (5D)6P	243.3148	-2.784	49506.934	1.5	D6S (3P)4F		
242.7811	-1.300	58631.531	4.5	D6S (1G)2G	99808.400	3.5	4P (1G)2G	243.3160	-4.556	100749.810	2.5	5S (3F)2F		
242.8078	-1.984	20340.300	5.5	D7 (5D)2H	61512.634	4.5	4P (3H)4I	243.3500	-0.826	21581.638	4.5	D6S (3H)4H		
242.8201	-3.971	105211.140	4.5	5D (5D)4G	64040.886	3.5	4P (3F)4G	243.3572	-0.648	38164.194	2.5	D6S (1D)2D		
242.8293	-0.728	31483.176	3.5	D6S (3D)4D	72651.876	3.5	4P (3D)4D	243.3759	-3.648	102802.312	2.5	6S (5D)4D		
242.8365	0.375	31483.176	3.5	D6S (3D)4D	72650.658	4.5	4P (3D)4F	243.3991	-2.761	102584.963	5.5	5S (3G)4G		
242.8492	-4.859	104630.430	1.5	5D (5D)6P	63465.109	1.5	4P (3F)4D	243.4060	-0.425	83308.194	2.5	4D (5D)6F		
242.8525	-3.314	80177.975	1.5	5S (5D)4D	39013.206	1.5	4P (5D)6D	243.4093	-4.512	38214.507	1.5	D6S (1D)2D		
242.8569	-0.092	105589.420	3.5	4D (3F)4H	64425.408	2.5	4P (3F)2F	243.4208	-2.861	80177.975	1.5	5S (5D)4D		
242.8596	-1.992	26352.766	4.5	D6S (3H)2H	67516.332	5.5	4P (3G)2H	243.4239	0.239	83726.364	4.5	4D (5D)6D		
242.8618	-4.804	105449.540	3.5	5D (5D)4G	64286.345	3.5	4P (3F)2F	243.4360	-3.485	50142.786	2.5	D6S (3F)4F		
242.8793	-1.885	25428.784	5.5	D6S (3G)4G	66589.008	4.5	4P (3G)4H	243.4409	-0.336	31364.440	1.5	D6S (3D)4D		
242.8799	-0.224	31364.440	1.5	D6S (3D)4D	72524.566	1.5	4P (3D)4D	243.4467	-2.241	72429.711	0.5	4P (3D)4D		
242.8969	-0.757	83558.540	0.5	4D (5D)6F	42401.302	1.5	4P (5D)6F	243.4673	-4.610	104000.810	3.5	5D (5D)6D		
242.9035	-0.372	31368.450	0.5	D6S (3H)4D	72524.566	1.5	4P (3D)4D	243.4730	0.534	32909.905	5.5	D6S (11)2I		
242.9155	-0.259	83812.316	2.5	4D (5D)6D	42658.224	3.5	4P (5D)6P	243.4819	-0.955	83459.670	1.5	4D (5D)6F		
242.9191	-4.816	104426.460	2.5	5D (5D)6F	62962.205	1.5	4P (3F)4D	243.4904	-0.839	73966.832	6.5	4P (11)2I		
242.9388	-0.520	21812.055	1.5	D6S (3F)4P	63272.976	2.5	4P (3F)4D	243.4969	-2.473	31999.048	3.5	D7 (5D)2F		
242.9418	-1.889	22409.852	0.5	D6S (3P)4P	63559.488	0.5	4P (3F)4D	243.5000	0.075	83713.536	3.5	4D (5D)6D		
242.9511	-3.777	20830.582	2.5	D6S (3F)4F	64087.418	2.5	4P (3F)4G	243.5003	-3.061	22409.852	0.5	D6S (3P)4P		
242.9736	-2.428	31999.048	3.5	D7 (5D)2F	61974.933	1.5	4P (1G)2G	243.5408	-1.865	85495.304	2.5	4D (5D)6S		
242.9860	-0.014	58666.258	3.5	D6S (1G)2G	73143.288	3.5	4P (1G)2G	243.5408	-1.865	85495.304	2.5	4D (5D)6S		
242.9981	-4.450	103265.694	0.5	6S (5D)4D	99808.400	3.5	4P (1G)2G	243.5570	-3.522	103094.730	3.5	4S5S(7S)8S		
243.0187	-2.790	31387.948	2.5	D6S (3D)4D	62125.600	1.5	4P (3P)2D	243.5887	-4.397	105127.770	2.5	5D (5D)4D		
243.0205	-1.436	31483.176	3.5	D6S (3D)4D	72524.566	1.5	4P (3D)4D	243.5999	-1.770	103983.510	3.5	5S (3G)2G		
243.0402	-4.015	50075.910	1.5	D6S (3F)4F	72619.490	2.5	4P (3D)4D	243.6220	-0.852	25428.784	5.5	D6S (3G)4G		
243.0408	-4.196	60441.033	1.5	D5S2(7S)4D	101573.900	1.5	5P (5D)4F	243.6556	-0.124	38214.507	1.5	D6S (1D)2D		
243.0438	-1.640	108648.695	6.5	5S (11)2I	67516.332	5.5	4P (3G)2H	243.6623	0.226	84266.556	3.5	4D (5D)6P		
243.0466	-2.929	49506.934	1.5	D6S (3F)4P	90638.822	2.5	5P (5D)4D	243.6708	-4.401	79885.493	2.5	5S (5D)4D		
243.0659	-2.824	60445.275	2.5	D5S2(7S)4D	101573.900	1.5	4P (1G)2G	243.6851	-4.953	105449.540	3.5	5D (5D)4G		
243.0706	-1.359	105414.180	2.5	4D (3F)4G	64286.345	3.5	4P (1G)2G	243.6996	0.289	58631.531	4.5	D6S (1G)2G		
243.0838	-0.202	58631.531	4.5	D6S (1G)2G	99757.120	4.5	4P (1G)2G	243.6997	-0.347	83136.482	4.5	4P (5D)6F		
243.0864	-2.926	54870.528	2.5	D6S (3F)2F	95995.690	2.5	4P (5P)4D	243.7105	-0.993	83459.670	1.5	4D (5D)6F		
243.0882	-0.518	83459.670	1.5	4D (5D)6F	42334.822	2.5	4P (5D)6F	243.7162	-1.357	25981.629	3.5	D6S (3G)4G		
243.0886	-2.649	57411.065	2.5	D5S2(7S)4P	98535.850	3.5	4P (5D)4F	243.7204	0.145	87985.628	2.5	4D (5D)4P		
243.0942	-2.840	105075.910	1.5	D6S (3F)4F	91199.746	0.5	5P (5D)4D	243.7214	-4.529	60384.370	0.5	D5S2(7S)4D		
243.0993	-0.376	49506.934	1.5	D6S (3P)4P	90629.902	1.5	4P (3F)4S	243.7269	-1.557	31999.048	3.5	D7 (5D)2F		
243.1115	-4.111	38164.194	2.5	D6S (1D)2D	79285.110	2.5	4P (5P)6P	243.7273	-1.382	21812.055	1.5	D6S (3P)4P		
243.1245	-0.973	83558.540	0.5	4D (5D)6F	243.7335	-1.265	85462.862	3.5	4D (5D)4G	243.7335	-1.265	85462.862	3.5	4D (5D)4G
243.1403	-2.312	102842.119	4.5	5S (3G)4G	61726.077	3.5	4P (3F)4D	243.7585	-2.118	57493.321	1.5	D5S2(7S)4P		
243.1479	-1.223	105063.550	5.5	4D (3F)4G	63948.790	4.5	4P (3F)4G	243.7653	-0.370	82978.477	4.5	4D (5D)6F		
243.1512	-1.891	105155.090	4.5	4D (3F)4G	64040.886	3.5	4P (3F)4G	243.7662	-4.739	50157.652	4.5	D6S (3F)4F		
243.1518	-2.915	108630.429	5.5	5S (11)2I	67516.332	5.5	4P (3G)2H	243.8008	-0.322	103291.010	3.5	4D (3F)4G		
243.1892	-6.300	23317.633	2.5	D5S2(7S)6S	64425.408	2.5	4P (3F)2F	243.8048	-0.736	58631.531	4.5	D6S (1G)2G		
243.2021	-3.232	33501.233	3.5	D6S (1G)2G	74606.841	2.5	4P (3F)2D	243.8419	-1.857	102584.963	5.5	5S (3G)4G		
243.2262	0.014	22939.358	2.5	D6S (3F)4F	64040.886	3.5	4P (3D)4D	243.8519	-3.483	50212.826	2.5	D6S (3P)4P		

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
243.8604	-4.874	50075.910	1.5	D6S (3F)4F	91070.547	2.5	5P (5D)4F	244.7835	-4.352	31811.822	2.5	D7 (5D)2F
243.8713	-4.719	103118.400	1.5	6S (5D)4D	62125.600	1.5	4P (3P)2D	244.8112	-2.807	50212.826	2.5	D6S (3P)4P
243.8953	-0.664	105414.180	2.5	4D (3F)4G	64425.408	2.5	4P (3F)2F	244.8297	-4.485	104872.310	3.5	5D (5D)4D
243.9027	-3.977	54870.528	2.5	D6S (3F)2F	95858.050	1.5	4SP(5P)4D	244.8595	-4.874	102802.312	2.5	6S (5D)4D
243.9061	-0.818	58666.258	3.5	D6S (1G)2G	99653.220	4.5	4SP(3G)2G	244.8734	-2.418	25787.598	1.5	D6S (3P)2P
243.9302	0.535	25428.784	5.5	D6S (3G)4G	66411.686	6.5	4P (3G)4H	244.9184	-2.151	21308.040	1.5	D7 (5P)2D
243.9446	-2.047	79439.467	3.5	5S (5D)4D	38458.981	4.5	4P (5D)6D	244.9201	-2.723	54063.459	0.5	D6S (3P)2P
243.9459	-1.498	57411.065	2.5	D5S2(7S)4D	98391.330	3.5	4SP(5D)4D	244.9290	-2.500	20516.960	2.5	D7 (5D)2D
243.9596	-3.156	21711.917	3.5	D6S (3H)4H	62689.880	2.5	4P (3P)4D	244.9729	-2.841	2430.097	3.5	D7 (5D)4F
243.9729	-2.873	54063.459	0.5	D6S (3P)2P	95039.200	1.5	4P (3P)2P	244.9778	-2.735	31811.822	2.5	D7 (5D)2F
243.9870	-0.743	83308.194	2.5	4D (5D)6F	42334.822	2.5	4P (5D)6F	244.9965	-0.580	31364.440	1.5	D6S (3D)4F
243.9931	-3.815	50075.910	1.5	D6S (3F)4F	91048.256	1.5	5P (5D)4D	244.9998	-4.903	54275.637	2.5	D5S2(7S)4G
244.0115	-0.001	58666.258	3.5	D6S (1G)2G	99635.520	3.5	4SP(3G)2G	245.0005	-4.654	108804.667	3.5	5S (3D)4D
244.0147	-5.411	23317.633	2.5	D5S2(7S)6S	64286.345	3.5	4P (3F)2F	245.0033	-0.161	84424.370	1.5	4P (5D)6P
244.0259	-4.913	103118.400	1.5	6S (5D)4D	62151.561	2.5	4P (3F)4F	245.0138	-0.826	83136.487	3.5	4D (5D)6F
244.0424	-0.059	31387.948	2.5	D6S (3D)4D	72352.024	3.5	4P (3D)4F	245.0205	-0.307	31368.450	0.5	D6S (3D)4F
244.0586	-3.615	60441.033	1.5	D5S2(7S)4D	101402.380	0.5	4SP(5D)4P	245.0283	-0.259	88189.030	0.5	4D (5D)4F
244.0921	-2.629	54907.315	1.5	D6S (3P)2P	95858.050	1.5	4SP(5P)4D	245.1100	-2.317	1872.567	4.5	D7 (5D)4F
244.1130	-0.121	85184.734	4.5	4D (5D)4G	44232.512	4.5	4P (5D)4F	245.1143	-3.758	57411.065	2.5	D5S2(7S)4F
244.1555	-1.973	26055.423	2.5	D6S (3G)4G	67000.517	2.5	4P (3F)2D	245.1219	-0.673	25805.328	4.5	D6S (3G)4G
244.1618	-2.181	85728.806	1.5	4D (5D)4G	44784.761	2.5	4P (5D)4D	245.1259	-3.716	2837.950	2.5	D7 (5D)4F
244.1644	-2.433	57411.065	2.5	D5S2(7S)4F	98354.660	2.5	4SP(5D)4F	245.1353	-2.039	20805.770	4.5	D7 (5D)2H
244.2069	-3.938	103600.440	6.5	4D (3H)4D	62662.244	5.5	4P (3H)2I	245.1377	-0.616	719437.948	2.5	D6S (3D)4D
244.2376	0.632	21308.040	1.5	D7 (5D)2D	62244.520	1.5	4P (3F)4F	245.1475	-3.164	38660.047	3.5	4P (5D)6D
244.2622	-1.670	57411.065	2.5	D5S2(7S)4P	64831.943	1.5	4P (3F)2G	245.1475	-3.164	38660.047	3.5	4P (5D)6D
244.2700	-1.599	85679.698	2.5	4D (5D)4G	44753.799	3.5	4P (5D)4F	245.1640	-4.840	18886.780	0.5	D7 (5D)2P
244.2787	-4.425	104873.230	3.5	5D (5D)4D	63948.790	4.5	4P (3F)4G	245.1645	-2.273	102842.119	4.5	5S (3G)4G
244.2866	-3.234	103094.730	3.5	4S5S(7S)8S	62171.615	3.5	4SP(7S)6P	245.2054	-6.606	23317.633	2.5	D5S2(7S)6S
244.3034	-3.091	20805.770	4.5	D7 (5D)2H	61726.077	3.5	4P (3P)4D	245.2202	-0.587	88157.116	1.5	4D (5D)4F
244.3372	-3.928	104863.430	5.5	5D (5D)4G	63948.790	4.5	4P (3F)4G	245.2428	-3.357	50075.910	1.5	D6S (3F)4F
244.3835	-0.874	83308.194	2.5	4D (5D)6F	42401.302	1.5	4P (5D)6F	245.2655	-2.396	54275.637	2.5	D5S2(7S)4F
244.3920	-2.939	50142.786	2.5	D6S (3F)4F	91048.256	1.5	5P (5D)4D	245.2703	-1.968	102842.119	4.5	5S (3G)4G
244.4280	-0.488	83136.487	3.5	4D (5D)6F	42237.033	3.5	4P (5D)6F	245.2743	-4.338	102842.119	4.5	5S (3G)4G
244.4510	-1.373	85679.698	2.5	4D (5D)4G	44784.761	2.5	4P (5D)4D	245.2795	-2.414	105589.420	3.5	4D (3F)4H
244.4550	-1.373	85679.698	2.5	4D (5D)4G	44784.761	2.5	4P (5D)4D	245.2924	-1.573	31483.176	3.5	D6S (3D)4D
244.5107	0.305	82853.658	5.5	4D (5D)6F	41968.046	5.5	4P (5D)6F	245.3047	-4.763	102802.312	2.5	6S (5D)4D
244.5279	-3.688	50187.813	3.5	D6S (3F)4F	91070.547	2.5	5P (5D)4F	245.3156	-0.305	102802.312	2.5	6S (5D)4D
244.5573	0.118	21812.055	1.5	D6S (3P)4D	62689.880	2.5	4P (3D)4F	245.3748	-0.763	82978.677	4.5	4D (5D)6F
244.5798	-0.091	31364.440	1.5	D6S (3D)4D	72238.513	2.5	4P (3D)4F	245.3757	-3.232	85495.304	2.5	4D (5D)6S
244.5904	-2.438	79885.493	2.5	5S (5D)4D	39013.206	1.5	4P (5D)6D	245.3788	-5.639	21308.040	1.5	D7 (5D)2D
244.6110	-0.110	31483.176	3.5	D6S (3D)4D	72332.024	3.5	4P (3D)4F	245.4579	0.339	32875.646	6.5	D6S (11)2I
244.6116	-2.435	105155.090	4.5	4D (3F)4G	64286.345	3.5	4P (3F)2H	245.4585	-1.411	21430.359	5.5	D6S (3H)4H
244.6221	-2.046	25805.328	4.5	D6S (3G)4G	66672.334	3.5	4P (3G)4H	245.4856	-6.010	23317.633	2.5	D5S2(7S)6S
244.6305	-2.246	105291.010	3.5	4D (3F)4G	64425.408	2.5	4P (3F)2F	245.5436	-3.436	50187.813	3.5	D6S (3F)4F
244.6318	-3.340	54902.315	1.5	D6S (3P)2P	95767.700	0.5	4SP(5P)4D	245.5466	-1.549	31811.822	2.5	D7 (5D)2F
244.6409	-0.098	82978.677	4.5	4D (5D)6F	42114.818	4.5	4P (5D)6F	245.5623	-2.294	85495.304	2.5	4D (5D)6S
244.6472	-0.442	21430.359	5.5	D6S (3H)4H	62293.164	6.5	4P (3H)2I	245.5712	-0.118	103983.510	3.5	5S (3G)2G
244.6560	-2.128	57493.321	1.5	D5S2(7S)4P	98354.660	2.5	4SP(5D)4F	245.5845	-3.292	20805.770	4.5	D7 (5D)2H
244.6777	-3.249	50212.826	2.5	D6S (3P)4D	91070.547	2.5	5P (5D)4F	245.5900	-0.041	84326.912	2.5	4D (5D)6P
244.7205	-0.191	31387.948	2.5	D6S (3D)4D	72238.513	2.5	4P (3D)4F	245.6097	-4.178	57493.321	1.5	D5S2(7S)4P
244.7327	-1.577	31364.440	1.5	D6S (3D)4D	72212.978	0.5	4P (3D)4P	245.6116	-4.681	105127.770	2.5	5D (5D)4D
244.7401	-4.531	104120.270	2.5	5D (5D)6P	63272.976	2.5	4P (3F)4F	245.6282	-2.546	85495.304	2.5	4D (5D)6S
244.7541	-1.779	57493.321	1.5	D5S2(7S)4P	98338.280	1.5	4SP(5P)4S	245.6475	-0.118	103983.510	3.5	5S (3G)2G
244.7567	-0.300	31368.450	0.5	D6S (3D)4D	72212.978	0.5	4P (3D)4P	245.6562	-2.294	85495.304	2.5	4D (5D)6S
244.7627	-4.751	21308.040	1.5	D7 (5D)2D	62151.561	2.5	4P (3F)4F	245.6602	-0.041	84326.912	2.5	4D (5D)6P
244.7753	-4.505	105127.770	2.5	5D (5D)4D	64286.345	3.5	4P (3F)2F	245.6616	-4.681	105127.770	2.5	5D (5D)4D
244.7756	0.342	32909.905	5.5	D6S (11)2I	73751.282	4.5	4P (11)2H	245.6616	-4.681	105127.770	2.5	5D (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
247.2968	-4.700	54275.637	2.5	D582(78)4G	94700.660	2.5	4P (3F)2D	248.2258	0.150	25428.784	5.5	D6S (3G)4G
247.3032	-0.306	84870.863	2.5	4D (5D)4D	44446.878	3.5	4P (5D)4D	248.2663	0.254	58631.531	4.5	D6S (1G)2G
247.3323	-0.263	22409.852	0.5	D6S (3P)4P	62829.075	0.5	4P (3P)4P	248.2868	-0.259	85048.602	1.5	4D (5D)4D
247.3332	-4.257	104705.420	3.5	5D (3D)2H	64286.345	3.5	4P (3F)2F	248.2870	0.155	84710.685	3.5	4D (5D)6G
247.3347	-2.101	26170.181	5.5	D6S (3H)2H	66589.008	4.5	4P (3G)4F	248.2931	-2.415	20830.582	2.5	D6S (3P)4P
247.3432	-3.501	54283.220	3.5	D582(78)4G	94700.660	2.5	4P (3F)2D	248.3407	-4.471	99918.569	1.5	5S (3F)4F
247.3454	-0.438	50212.826	2.5	D6S (3P)4P	90629.802	1.5	4P (3P)4S	248.3409	-4.157	50142.786	2.5	D6S (3F)4F
247.3555	-3.871	85495.304	2.5	4D (5D)6S	45079.979	2.5	4P (5D)4F	248.3700	-0.515	33501.253	3.5	D6S (1G)2G
247.3595	-2.824	105524.461	4.5	4D (3F)4H	65109.679	3.5	4P (3F)2G	248.4145	-4.707	102394.718	3.5	6S (5D)4D
247.3921	-4.747	54275.637	2.5	D582(78)4G	94685.090	2.5	4SP(5D)6P	248.4201	-2.199	1872.567	4.5	D7 (5D)4F
247.4385	-4.991	54283.220	3.5	D582(78)4G	94685.090	2.5	4SP(5D)6P	248.4236	-1.311	23031.300	1.5	D6S (3F)4F
247.4461	-3.417	2837.950	2.5	D7 (5D)4F	43238.586	2.5	4P (5D)6P	248.4247	-0.265	26170.181	5.5	D6S (3H)2H
247.4520	-1.144	105763.270	5.5	4D (3F)2H	65363.595	5.5	4P (3H)2H	248.4314	-3.619	50157.452	4.5	D6S (3F)4F
247.4625	-3.477	84844.834	2.5	4D (5D)6G	44446.878	3.5	4P (5D)4D	248.4373	-3.986	31999.048	3.5	D7 (5D)2F
247.4676	-0.119	25981.629	3.5	D6S (3G)4G	66377.283	3.5	4P (3G)4F	248.4443	0.227	84685.198	3.5	4D (5D)4D
247.5119	0.327	85679.698	2.5	4D (5D)4G	45289.801	1.5	4P (5D)4F	248.4527	-3.587	21812.055	1.5	D6S (3P)4P
247.5543	-0.411	85462.862	3.5	4D (5D)4G	45079.879	2.5	4P (5D)4F	248.4572	-1.339	26352.766	4.5	D6S (3H)2H
247.5684	-2.894	50212.826	2.5	D6S (3P)4P	90593.497	1.5	5P (5D)6F	248.4806	-0.614	58666.258	3.5	D6S (1G)2G
247.6394	-0.914	21711.917	3.5	D6S (3H)4H	62083.108	4.5	4P (3H)2G	248.4858	-3.334	105063.550	5.5	4D (3F)4G
247.6678	-2.398	83990.063	1.5	4D (5D)6D	43620.957	1.5	4P (5D)6P	248.4944	-4.210	31811.822	2.5	D7 (5D)2F
247.7003	-3.879	1872.567	4.5	D7 (5D)4F	42237.033	3.5	4P (5D)6P	248.5014	-3.548	50157.452	4.5	D6S (3F)4F
247.7126	-4.403	102334.112	2.5	6S (5D)6D	61974.933	1.5	4SP(7S)6P	248.5073	-3.058	2430.097	3.5	D7 (5D)4F
247.7345	-0.782	31811.822	2.5	D7 (5D)2F	72168.998	1.5	4P (3D)4F	248.5236	-1.121	104174.270	5.5	4D (3H)4I
247.7384	-1.461	21711.917	3.5	D6S (3H)4H	62065.521	3.5	4P (3F)4F	248.5383	-4.045	102394.718	3.5	6S (5D)4D
247.7501	-1.949	31999.048	3.5	D7 (5D)2F	72352.024	3.5	4P (3D)4F	248.5508	-1.629	83459.670	1.5	4D (5D)6F
247.7501	-1.949	20805.770	4.5	D7 (5D)2H	61156.835	3.5	4P (3H)4H	248.5550	-4.365	49506.934	1.5	D6S (3P)4P
247.7722	-3.661	100749.810	2.5	5S (3F)2F	60402.342	2.5	4P (3P)4P	248.5621	-2.960	20830.582	2.5	D6S (3P)4P
247.7831	-0.267	102394.718	3.5	6S (5D)4D	62049.025	2.5	4SP(7S)6P	248.5647	-4.104	85495.304	2.5	4D (5D)6S
247.8114	-0.809	26932.748	0.5	D6S (3P)2P	67273.826	1.5	4P (3F)2D	248.5891	-3.102	50187.813	3.5	D6S (3F)4F
247.8211	-2.003	21812.055	1.5	D6S (3P)4P	62151.561	2.5	4P (3F)4F	248.6190	-4.659	50187.813	3.5	D6S (3F)4F
247.8358	-4.136	21711.917	3.5	D6S (3H)4H	61587.214	5.5	4P (3H)4I	248.6353	0.211	25805.328	4.5	D6S (3G)4G
247.8451	-1.113	21251.608	6.5	D6S (3H)4H	61587.214	5.5	4P (3H)4I	248.6379	-0.737	105763.270	5.5	4D (3F)2H
247.8573	-0.267	22939.358	2.5	D6S (3F)4F	63272.976	2.5	4P (3F)4D	248.6471	-4.104	85495.304	2.5	4D (5D)6S
247.8844	-4.633	102394.718	3.5	6S (5D)4D	62065.521	3.5	4P (3F)4F	248.6891	-3.102	50187.813	3.5	D6S (3F)4F
247.9025	-3.138	20830.582	2.5	D6S (3P)4P	61156.835	3.5	4P (3H)4H	248.7346	-2.860	83812.316	2.5	4D (5D)6D
247.9216	-1.165	105155.090	4.5	4D (3F)4G	64831.943	4.5	4P (3F)2G	248.7532	-1.282	104064.670	6.5	4D (3H)4I
247.9228	-0.170	38164.194	2.5	D6S (1D)2D	78487.153	1.5	4P (1D)2D	248.7737	-3.259	50212.826	2.5	D6S (3P)4P
247.9296	-1.398	26055.423	2.5	D6S (3G)4G	66377.283	3.5	4P (3G)4F	248.7822	-3.354	20805.770	4.5	D7 (5D)2H
247.9382	-1.069	82978.677	4.5	4D (5D)6F	42658.224	3.5	4P (5D)6P	248.7945	-2.013	32909.905	5.5	D6S (11)2I
247.9436	-2.008	26352.766	4.5	D6S (3H)2H	66672.334	3.5	4P (3G)4H	248.7950	-0.938	105763.270	5.5	4D (3F)2H
247.9807	-1.905	21812.055	1.5	D6S (3P)4P	62125.600	1.5	4P (3P)2D	248.7967	-1.781	105291.010	3.5	4D (3F)4G
247.9926	-4.820	102394.718	3.5	6S (5D)4D	62083.108	4.5	4P (3H)2G	248.8057	-4.313	102842.119	4.5	5S (3G)4G
248.0158	0.088	22637.205	4.5	D6S (3F)4F	62945.038	3.5	4P (3P)4D	248.8333	0.030	54870.528	2.5	D6S (3F)2F
248.0343	-3.713	102030.912	3.5	6S (5D)6D	61726.077	3.5	4P (3P)4D	248.8324	0.162	54904.222	3.5	D6S (3F)2F
248.0363	-1.857	105414.180	2.5	4D (3F)4G	65109.679	3.5	4P (3F)2G	248.8751	-1.304	54870.528	2.5	D6S (3F)2F
248.0426	-4.072	103265.694	0.5	6S (5D)4D	62962.205	1.5	4P (3P)4D	248.9110	-2.308	21812.055	1.5	D6S (3P)4P
248.0641	-4.780	50187.813	3.5	D6S (3F)4F	90487.810	2.5	5P (5D)6F	248.9134	-4.447	102334.112	2.5	6S (5D)6D
248.0767	-1.834	104174.270	5.5	4D (3H)4I	63876.317	5.5	4P (3F)4G	248.9235	-3.768	105524.461	4.5	4D (3F)4H
248.1050	-0.677	26170.181	5.5	D6S (3H)2H	66463.528	5.5	4P (3G)4H	248.9252	-4.025	99824.045	2.5	5S (3F)4F
248.1145	-4.017	102584.963	5.5	5S (3G)4G	64232.512	4.5	4P (5D)4F	248.9484	-0.130	21430.359	5.5	D6S (3H)4H
248.1215	-2.924	25787.598	1.5	D6S (3P)2P	66078.269	2.5	4P (3G)4G	248.9525	-3.794	103118.400	1.5	6S (5D)4D
248.1298	-3.987	103118.400	1.5	D6S (5D)4D	62829.075	0.5	4P (3P)4D	248.9697	-3.883	84938.180	1.5	4D (5D)6G
248.1555	-3.366	20340.300	5.5	D7 (5D)2H	60625.449	5.5	4P (3H)4D	248.9846	-2.913	25428.784	5.5	D6S (3G)4G
248.1575	-0.958	33466.463	4.5	D6S (1G)2G	62049.025	2.5	4SP(7S)6P	248.9846	-2.913	20805.770	4.5	D7 (5D)2H
248.2118	0.058	21251.608	6.5	D6S (3H)4H	61527.616	6.5	4P (3H)4I	249.0065	-5.640	23317.633	2.5	D582(78)6S
248.2326	-0.519	38214.507	1.5	D6S (1D)2D	78487.153	1.5	4P (1D)2D	249.0254	-2.053	21581.638	4.5	D6S (3H)4H
								249.0294	-4.407	54902.315	1.5	D6S (3P)2P
								249.0332	-4.368	50157.452	4.5	D6S (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
249.0413	-1.151	54904.222	3.5	D6S (3F)2F	95046.100	2.5	4P (3F)2F	250.1350	-0.585	85172.809	0.5	4D (5D)4D
249.0713	-0.028	33466.463	4.5	D6S (1G)2G	73603.500	5.5	4P (1I)2H	250.1394	-3.809	31999.048	3.5	D7 (5D)2F
249.0722	-0.013	54902.315	1.5	D6S (3P)2P	95039.200	1.5	4P (3P)2P	250.1411	-2.540	102030.912	3.5	6S (5D)6D
249.0829	-1.830	30388.542	4.5	D6S (3G)2G	70523.706	3.5	4P (3G)2G	250.1428	-2.540	58631.531	4.5	D6S (1G)2G
249.0859	-0.217	22810.357	3.5	D6S (3F)4F	62945.038	3.5	4P (3F)4F	250.1791	-3.716	60441.033	1.5	D5S2 (7S)4D
249.1066	-1.656	31999.048	3.5	D7 (5D)2F	72130.390	4.5	4P (1G)2H	250.1893	-1.143	54232.195	5.5	D5S2 (7S)4G
249.1148	-4.101	60270.339	3.5	D5S2 (7S)4D	100400.360	2.5	4SP (3P)2D	250.1944	-2.460	84710.685	3.5	4D (5D)6G
249.1234	-0.481	85172.809	0.5	4D (5D)4D	45044.168	1.5	4P (5D)4D	250.2040	-4.796	23317.633	2.5	D5S2 (7S)6S
249.1305	-1.392	25428.784	5.5	D6S (3G)4G	65556.280	4.5	4P (3H)2H	250.2056	-3.418	60445.275	2.5	D5S2 (7S)4D
249.1386	-6.311	20830.582	2.5	D6S (3P)4P	60956.781	3.5	4P (3G)4G	250.2393	0.051	25981.629	3.5	D6S (3G)4G
249.1398	-0.072	25805.328	4.5	D6S (3G)4G	65931.334	3.5	4P (3H)4H	250.2724	-4.423	105524.461	4.5	4D (3F)4H
249.1470	-4.634	3117.461	1.5	D7 (5D)4F	43238.586	2.5	4P (5D)6F	250.2837	-1.896	103983.510	3.5	5S (3G)2G
249.1833	-2.994	49506.934	1.5	D6S (3P)4P	89625.940	1.5	4SP (5P)6P	250.3154	-2.339	83538.340	0.5	D5S2 (7S)4G
249.1953	-1.085	84870.863	2.5	4D (5D)4D	44753.799	3.5	4P (5D)4F	250.3246	-4.493	54275.637	2.5	D5S2 (7S)4G
249.2217	-4.404	50187.813	3.5	D6S (3F)4F	90300.625	3.5	5P (5D)6F	250.3327	-0.223	25428.784	5.5	D6S (3G)4G
249.2241	-3.382	102802.312	2.5	6S (5D)4D	62689.880	2.5	4P (3P)4D	250.3541	-1.066	84685.198	3.5	4D (5D)4F
249.2345	-0.744	26352.766	4.5	D6S (3H)2H	66463.528	5.5	4P (3G)4H	250.3566	-0.464	21581.638	4.5	D6S (3H)4H
249.2923	-4.951	105211.140	4.5	5D (5D)4G	65109.679	3.5	4P (3F)2G	250.3571	-2.839	23031.300	1.5	D6S (3F)4F
249.3184	0.428	21430.359	5.5	D6S (3H)4H	61527.616	6.5	4P (3H)4I	250.3604	-3.194	58666.258	3.5	D6S (1G)2G
249.3223	-0.365	25981.629	3.5	D6S (3G)4G	66078.269	2.5	4P (3G)4I	250.3875	0.358	30388.542	4.5	D6S (3G)2G
249.3262	0.708	21251.608	6.5	D6S (3H)4H	61347.614	7.5	4P (3H)4I	250.3884	-1.677	84710.685	3.5	4D (5D)6G
249.3295	-3.256	1872.567	4.5	D7 (5D)4F	41968.046	5.5	4P (5D)6F	250.3926	-1.938	105288.847	6.5	4D (3F)4H
249.3571	-3.424	84844.834	2.5	4D (5D)6G	44753.799	3.5	4P (5D)4F	250.4085	-3.480	102584.963	5.5	5S (3G)4G
249.3656	-2.661	100492.020	3.5	5S (3F)2F	60402.342	2.5	4P (3P)4P	250.4487	-2.033	54232.195	5.5	D5S2 (7S)4G
249.3772	-4.531	50212.826	2.5	D6S (3P)4P	90300.625	3.5	5P (5D)6F	250.4491	-3.574	54273.641	4.5	D5S2 (7S)4G
249.3878	0.003	84870.863	2.5	4D (5D)4D	44784.761	2.5	4P (5D)4D	250.4556	-1.996	57411.065	2.5	D5S2 (7S)4F
249.4116	-1.021	21430.359	5.5	D6S (3H)4H	61512.634	4.5	4P (3H)4I	250.5214	-2.443	2430.097	3.5	D7 (5D)4F
249.4144	-2.271	20805.770	4.5	D7 (5D)2H	60887.598	5.5	4P (3H)4H	250.5240	-2.473	58631.531	4.5	D6S (1G)2G
249.4202	-1.658	84827.778	4.5	4D (5D)6G	44446.878	3.5	4P (5D)4D	250.5355	-2.303	49100.976	0.5	D6S (3P)4P
249.4905	-1.217	83308.194	2.5	4D (3F)2H	43238.586	2.5	4P (3G)4F	250.5483	-1.299	84685.198	3.5	4D (5D)4D
249.5033	-1.585	105763.270	5.5	4D (5D)6F	65696.038	4.5	4P (3G)4G	250.5643	-1.524	83136.487	3.5	4D (5D)6F
249.5234	-2.227	84296.830	5.5	4D (5D)6G	44232.512	4.5	4P (5D)4F	250.5694	-2.159	102842.119	4.5	5S (3G)4G
249.5499	-2.199	84844.834	2.5	4D (5D)6G	44784.761	2.5	4P (5D)4D	250.5756	-1.342	103983.510	3.5	5S (3G)4G
249.5861	0.421	50157.452	4.5	D6S (3F)4F	90211.700	5.5	4P (3F)4G	250.5887	-2.346	84938.180	1.5	4D (5D)6G
249.6412	-2.769	105155.090	4.5	4D (3F)4G	65109.679	3.5	4P (3F)2G	250.5926	-3.616	105589.420	3.5	4D (3F)4H
249.7045	-2.759	105398.852	5.5	4D (3F)4H	65363.595	5.5	4P (3H)2H	250.6094	-0.085	25805.328	4.5	D6S (3G)4G
249.7079	-4.008	103983.510	3.5	5S (3G)2G	63948.790	4.5	4P (3F)4G	250.6429	-2.271	25016.960	2.5	D7 (5D)2D
249.7121	-1.706	84266.556	3.5	4D (3F)4G	44232.512	4.5	4P (5D)4F	250.6433	-0.521	50157.452	4.5	D6S (3F)4F
249.7178	-2.922	105589.420	3.5	4D (3F)4H	65556.280	4.5	4P (3H)2H	250.6578	-1.553	85172.809	0.5	4D (5D)4D
249.7281	-4.521	104863.430	5.5	5D (5S)4G	64831.943	4.5	4P (3G)2G	250.6765	-1.358	84326.912	2.5	4D (5D)6P
249.7303	-1.123	25981.629	3.5	D6S (3F)4F	66012.750	4.5	4P (3G)4F	250.6797	-3.064	50187.813	3.5	D6S (3F)4F
249.7683	-1.851	22637.205	4.5	D6S (3F)4F	62662.244	5.5	4P (3H)2I	250.6797	-4.459	22810.357	3.5	D6S (3F)4F
249.7703	-4.098	21308.040	1.5	D7 (5D)2D	61332.764	1.5	4P (3P)4P	250.6986	-1.022	36232.918	2.5	D6S (3G)4G
249.7716	-1.412	26352.766	4.5	D6S (3H)2H	66377.283	3.5	4P (3G)4F	250.7024	-1.079	26035.423	2.5	D6S (3G)4G
249.7820	-2.616	22939.358	2.5	D6S (3G)4G	66078.269	2.5	4P (3P)4D	250.7060	-0.365	103731.660	5.5	4D (3H)4H
249.7820	0.024	26055.423	2.5	D6S (3G)4G	62962.203	1.5	4P (3G)4D	250.7090	-1.303	54273.641	4.5	D5S2 (7S)4G
249.8362	-1.384	21711.917	3.5	D6S (3H)4H	61726.077	3.5	4P (3P)4D	250.7422	-2.843	58666.258	3.5	D6S (1G)2G
249.8892	-1.114	22939.358	2.5	D6S (3F)4F	62945.038	3.5	4P (3F)4D	250.7482	-2.688	54870.528	2.5	D6S (3F)2F
249.8898	0.388	21581.638	4.5	D6S (3H)4H	61587.214	5.5	4P (3H)4I	250.7595	-0.560	78725.790	1.5	5S (5D)6D
249.8970	-0.347	85048.602	1.5	D6S (3D)4D	45044.168	1.5	4P (5D)4D	250.7688	-0.565	78525.407	2.5	5S (5D)6D
249.9055	-1.621	36126.387	1.5	D6S (3D)2D	76129.446	1.5	4P (1S)2P	250.7692	-3.026	54283.220	3.5	D5S2 (7S)4G
249.9155	-3.411	20805.770	4.5	D7 (5D)2H	60807.230	4.5	4P (3H)4G	250.8070	-3.673	102030.912	3.5	6S (5D)6D
250.0379	-3.368	102030.912	3.5	6S (5D)6D	62049.025	2.5	4SP (7S)6P	250.8088	-4.534	54904.222	3.5	D6S (3F)2F
250.0595	-3.114	54902.315	1.5	D6S (3P)2P	94880.740	0.5	4SP (5P)6P	250.8132	-3.236	84938.180	1.5	4D (5D)6G
250.0924	-2.326	38164.194	2.5	D6S (1D)2D	78137.364	3.5	4P (1D)2F	250.8197	-3.567	102802.312	2.5	6S (5D)4D
250.1202	-1.410	85048.602	1.5	4D (5D)4D	45079.879	2.5	4P (5D)4F	250.8342	-0.405	50187.813	3.5	D6S (3F)4G
250.1236	-3.068	105524.461	4.5	4D (3F)4H	65556.280	4.5	4P (3H)2H	250.8943	-3.438	10318.400	1.5	6S (5D)4D
250.1253	-3.740	54063.459	0.5	D6S (3P)2P	94031.378	0.5	4SP (3H)2D	250.9122	-1.913	105398.852	5.5	4D (3F)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
250.9123	-1.001	26170.181	5.5	D6S (3H)2H	251.6123	-1.781	84938.180	1.5	4D (5D)6D
250.9149	-0.800	85048.602	1.5	4D (5D)4D	251.6407	-3.025	21308.040	1.5	D7 (3E)4D
250.9278	-3.829	102802.312	2.5	6S (5D)4D	251.6605	-1.032	103600.440	6.5	4D (3H)4H
250.9365	-1.877	83459.670	1.5	4D (5D)6F	251.7135	-0.499	22409.852	0.5	D6S (3P)4P
250.9483	-2.129	54902.315	1.5	D6S (3P)2P	251.7220	-1.218	25981.629	3.5	D6S (3G)4G
250.9620	-1.994	22409.852	0.5	D6S (3P)4P	251.7336	-2.085	78725.790	1.5	5S (5D)6D
250.9729	-2.827	57493.321	1.5	D5S2(7S)4P	251.7339	-1.524	54275.637	2.5	D5S2(7S)4G
250.9865	-0.712	78843.992	0.5	5S (5D)6D	251.7575	-0.956	105288.847	6.5	4D (3F)4G
250.9906	-1.676	54870.528	2.5	D6S (3F)2F	251.7623	-3.935	100749.810	2.5	5S (3F)2F
251.0014	-3.934	105524.461	4.5	4D (3F)4H	251.7740	-3.545	103265.694	0.5	6S (5D)4D
251.0123	-0.825	84870.863	2.5	4D (5D)4D	251.7820	-2.094	54283.220	3.5	D5S2(7S)4G
251.0193	-4.548	54232.195	5.5	D5S2(7S)4G	251.7827	-3.769	102394.718	3.5	6S (5D)4D
251.0276	-3.926	49506.934	1.5	D6S (3P)4P	251.7955	-1.203	105398.852	5.5	4D (3F)4H
251.0528	-4.303	2837.950	2.5	D7 (5D)4F	251.7972	-0.447	50187.813	3.5	D6S (3F)4F
251.0565	-3.882	20805.770	4.5	D7 (5D)2H	251.7989	-1.921	108804.667	3.5	5S (3D)4D
251.0620	-2.449	84266.556	3.5	4D (5D)6P	251.8137	-2.151	105063.550	5.5	4D (3F)4G
251.0662	-2.449	105398.852	5.5	4D (3F)4H	251.8314	-1.919	103983.510	3.5	5S (3G)2G
251.0888	-4.615	54870.528	2.5	D6S (3F)2F	251.8944	-2.285	83308.194	2.5	4D (5D)6F
251.1169	-2.742	2430.097	3.5	D7 (5D)4F	251.9048	-0.139	27314.922	3.5	D6S (3F)2F
251.11764	-1.660	84844.834	2.5	4D (5D)6G	251.9099	-3.259	100492.020	3.5	5S (3F)2F
251.11770	-3.516	103265.694	0.5	6S (5D)4D	251.9099	-3.259	100492.020	3.5	5S (3F)2F
251.11832	-1.945	54273.641	4.5	D5S2(7S)4G	251.9103	-3.976	2430.097	3.5	D7 (5D)4F
251.11947	-2.079	54902.315	1.5	D6S (3P)2P	251.9409	-1.387	26932.748	0.5	D6S (3P)2F
251.11958	-2.888	54275.637	2.5	D5S2(7S)4G	251.9559	-3.251	50212.826	2.5	D6S (3P)4G
251.2031	-0.437	54904.222	3.5	D6S (3F)2F	251.9605	-1.894	33466.463	4.5	D6S (1G)2G
251.2234	-4.427	100749.810	2.5	5S (3F)2F	252.0264	-0.795	78525.407	2.5	5S (5D)6D
251.2237	-1.154	84870.863	2.5	4D (5D)4D	252.0528	-1.463	36252.918	2.5	D6S (3D)2D
251.2437	-1.439	54283.220	3.5	D5S2(7S)4G	252.0666	-2.589	103608.909	4.5	5S (3H)2H
251.2512	-0.018	36126.387	1.5	D6S (3D)2D	252.0675	-1.343	26352.766	4.5	D6S (3G)2G
251.2730	-2.389	21308.040	1.5	D7 (5D)2D	252.0764	-2.612	23031.300	1.5	D6S (3F)4F
251.2808	-4.010	54273.641	4.5	D5S2(7S)4G	252.0903	-2.240	100749.810	2.5	5S (3F)2F
251.2894	-1.908	54902.315	1.5	D6S (3P)2P	252.1100	-0.477	27620.412	2.5	D6S (3E)2D
251.3015	-2.374	54904.222	3.5	D6S (3F)2F	252.1218	-0.157	50075.910	1.5	D6S (3F)4F
251.3151	-0.737	78237.685	3.5	5S (5D)6D	252.1413	-2.618	84938.180	1.5	4D (5D)6G
251.3266	-2.796	54063.459	0.5	D6S (3P)2P	252.1485	0.536	58631.531	4.5	D6S (1G)2H
251.3403	-0.715	25805.328	4.5	D6S (3G)4G	252.1655	-5.833	23317.633	2.5	D5S2(7S)6S
251.3450	-3.495	84527.778	4.5	4D (5D)6G	252.1676	-4.583	102334.112	2.5	6S (5D)6D
251.3909	-0.103	50157.452	4.5	D6S (3F)4F	252.1971	-2.141	84424.370	1.5	4D (5D)6P
251.4346	-3.704	58631.531	4.5	D6S (1G)2G	252.2201	-0.693	21251.608	2.5	D6S (3H)4H
251.4383	0.225	30764.485	3.5	D6S (3G)2G	252.2436	-1.801	86599.738	2.5	4D (5D)4F
251.4409	-1.445	85048.602	1.5	4D (5D)4D	252.2531	-4.541	84710.685	3.5	4D (5D)6G
251.4906	-0.939	25805.328	4.5	D6S (3G)4G	252.2747	-4.470	33317.633	2.5	D5S2(7S)6S
251.4933	-1.678	22939.358	2.5	D6S (3F)4F	252.2892	0.317	33466.463	4.5	D6S (1G)2G
251.5106	-3.004	97326.270	5.5	4D (3F)2H	252.3443	-0.612	78725.790	1.5	5S (5D)6D
251.5119	0.280	50142.786	2.5	D6S (3F)4F	252.3695	-4.875	49506.934	1.5	D6S (3P)4P
251.5384	-3.150	86710.837	1.5	4D (5D)4F	252.4154	-2.134	84685.198	3.5	4D (5D)4D
251.5531	-3.122	72650.658	4.5	4P (3D)4F	252.4569	-2.710	105155.090	4.5	4D (3H)2H
251.5593	-1.609	105291.010	3.5	4D (3F)4G	252.4814	-3.350	105291.010	3.5	4D (3F)4G
251.5936	-1.218	78843.992	0.5	5S (5D)6D	252.4931	-1.150	105524.461	4.5	4D (3F)4G
251.5997	-4.129	21308.040	1.5	D7 (5D)2D	252.4941	-3.137	100749.810	2.5	5S (3F)2F
251.6047	-2.052	50157.452	4.5	D6S (3F)4F	252.5109	-0.548	33501.253	3.5	D6S (1G)2G
251.6068	-3.025	103608.909	4.5	5S (3G)2G	252.5389	0.408	21251.608	6.5	4P (3H)4H
					252.5478	-0.591	50142.786	2.5	D6S (3H)4F
					252.5701	-2.122	84870.863	2.5	4D (5D)4F
					252.5860	-1.505	26352.766	4.5	D6S (3H)2H
					252.5862	-0.375	38164.194	2.5	D6S (1D)2D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
252.5919	-0.257	78237.685	3.5	5S (5D)6D	38660.043	3.5	4P (5D)6D	253.5912	-3.740	99824.045	2.5	5S (3F)4F
252.5981	-3.918	105589.420	3.5	4D (3F)4F	66012.750	4.5	4P (3G)4F	253.6211	-2.400	100749.810	2.5	5S (3F)2F
252.6076	-0.306	21581.638	4.5	D6S (3H)4H	61156.835	3.5	4P (3H)4H	253.6464	-2.923	50212.826	2.5	D6S (3F)4P
252.6085	-1.917	105155.090	4.5	4D (3F)4G	65580.041	5.5	4P (3G)4G	253.6674	-0.554	26170.181	5.5	D6S (3H)2H
252.6110	-1.544	25981.629	3.5	D6S (3G)4G	65556.280	4.5	4P (3H)2H	253.6806	0.129	21581.638	4.5	D6S (3H)4H
252.6295	0.195	20830.582	2.5	D6S (3P)4P	60402.342	2.5	4P (3P)4P	253.6845	0.133	21430.359	5.5	D6S (3H)4H
252.6534	-1.337	103608.909	4.5	5S (3G)2G	64040.886	3.5	4P (3F)4G	253.7105	-8.474	25428.784	5.5	D6S (3G)4G
252.6721	-2.421	22409.852	0.5	D6S (3P)4P	61974.933	1.5	4SP(7S)6P	253.7139	0.125	77861.625	4.5	4P (5D)6D
252.6746	-4.844	54275.637	2.5	D5S2(7S)4G	93840.340	1.5	4SP(5D)6D	253.7368	-3.736	2837.950	2.5	D7 (5D)4F
252.6832	-2.654	2837.950	2.5	D7 (5D)4F	42401.302	1.5	4P (5D)6F	253.7398	-1.146	100492.020	3.5	5S (3F)2F
252.7104	-0.190	21430.359	5.5	D6S (3H)4H	60989.444	4.5	4P (3F)4H	253.8012	-4.765	102334.112	2.5	4P (3F)4D
252.7115	-1.951	103118.400	1.5	6S (5D)4D	63559.488	0.5	4P (3F)4H	253.8204	-1.930	105398.852	5.5	4D (3F)4H
252.7157	-1.951	25805.328	4.5	D6S (3G)4G	65363.595	5.5	4P (3H)2H	253.8204	-1.506	26170.181	5.5	D6S (3H)2H
252.7167	-0.986	103983.510	3.5	5S (3G)2G	64425.408	2.5	4P (3F)2F	253.8205	0.090	32875.646	6.5	D6S (11)21
252.7453	-0.065	33501.253	3.5	D6S (1G)2G	73054.881	2.5	4P (1G)2F	253.8399	-1.493	22939.358	2.5	D6S (3F)4F
252.7526	-4.706	105630.750	2.5	5D (5D)4G	66078.269	2.5	4P (3G)4G	253.8412	-4.760	60270.339	3.5	D5S2(7S)4D
252.7677	-1.243	30764.485	3.5	D6S (3G)2G	70314.604	4.5	4P (3G)2G	253.8501	-1.102	21711.917	3.5	D6S (3H)4H
252.7705	-0.152	33466.463	4.5	D6S (1G)2G	70316.147	3.5	4P (1G)2F	253.8584	-3.880	84424.370	1.5	4P (5D)6P
252.7828	-4.518	54283.220	3.5	D5S2(7S)4G	93830.979	2.5	4SP(5D)6D	253.8591	-1.199	27620.412	2.5	D6S (3F)2F
252.8187	-2.293	84326.912	2.5	4D (5D)6P	44784.761	2.5	4P (5D)4D	253.8680	-0.322	78237.685	3.5	5S (5D)6D
252.8354	-1.979	50187.813	3.5	D6S (3F)4F	89727.342	2.5	4P (3F)4G	253.8799	0.035	21430.359	5.5	D6S (3H)4H
252.8629	-2.943	100492.020	3.5	5S (3F)2F	60956.781	3.5	4P (3H)4G	253.8911	-0.098	21581.638	4.5	D6S (3H)4H
252.8682	-3.694	22637.205	4.5	D6S (3F)4F	62171.615	3.5	4SP(7S)6P	253.8995	0.331	105449.540	3.5	5D (5D)4G
252.9006	-3.283	102802.312	2.5	6S (5D)4D	63272.976	2.5	4P (3F)4D	253.9097	-5.692	23317.633	2.5	D5S2(7S)6S
252.9078	0.074	38214.507	1.5	D6S (1D)2D	77742.730	2.5	4P (1D)2D	253.9160	-3.775	105449.540	3.5	5D (5D)4G
252.9164	-2.930	101698.489	4.5	6S (5D)6D	62171.615	3.5	4SP(7S)6P	253.9336	-4.730	50075.910	1.5	D6S (3F)4F
252.9529	-0.590	26170.181	5.5	D6S (3H)2H	65696.038	4.5	4P (3F)4G	253.9403	-1.672	105063.550	5.5	4D (3F)4G
252.9546	0.308	22637.205	4.5	D6S (3F)4F	62158.110	4.5	4P (3G)4G	253.9537	-1.778	83812.316	2.5	4D (5D)6D
252.9559	-0.091	21812.055	1.5	D6S (3P)4P	61332.764	1.5	4P (3P)4P	253.9806	-2.201	22810.357	3.5	D6S (3F)4F
252.9719	-4.157	105449.540	3.5	5D (5D)4G	65931.334	3.5	4P (3G)4G	253.9908	-1.028	105291.010	3.5	5D (3F)4G
252.9845	-4.255	99918.569	1.5	5S (3F)4F	60402.342	2.5	4P (3P)4G	254.0055	-1.975	27314.922	3.5	D6S (3F)2F
252.9917	-3.877	105211.140	4.5	5D (5D)4G	65696.038	4.5	4P (3G)4G	254.0415	-2.812	32909.905	5.5	D6S (11)21
252.9931	-0.837	33501.253	3.5	D6S (1G)2G	73016.147	3.5	4P (1G)2F	254.0523	-0.403	37227.326	0.5	D6S (1S)2S
252.9955	-4.171	50212.826	2.5	D6S (3P)4P	89727.342	2.5	4P (3F)4G	254.0661	0.197	254.0661	0.197	254.0661
253.0068	-1.952	84266.556	3.5	4D (5D)6P	44753.799	3.5	4P (5D)4F	254.0678	-0.593	22810.357	3.5	D6S (3F)4F
253.0103	-0.391	78525.407	2.5	5S (5D)6D	39013.206	1.5	4P (5D)6D	254.0889	-4.436	84424.370	1.5	4D (5D)6P
253.0111	-0.419	22810.357	3.5	D6S (3F)4F	62322.431	3.5	4P (3G)2G	254.0967	-1.120	26352.766	4.5	D6S (3H)2H
253.0135	-3.757	105524.461	4.5	4D (3F)4H	66012.750	4.5	4P (3G)4H	254.1101	-4.874	104174.270	5.5	4D (3H)4I
253.0170	-1.136	105589.420	3.5	4D (3F)4H	66078.269	2.5	4P (3G)4G	254.1101	-4.874	104174.270	5.5	4D (3H)4I
253.0419	-0.231	105063.550	5.5	4D (3F)4G	65556.280	4.5	4P (3H)2H	254.1112	-4.620	102030.912	3.5	6S (5D)6D
253.0720	-3.825	100492.020	3.5	5S (3F)2F	60989.444	4.5	4P (3H)4H	254.1112	-4.620	102030.912	3.5	6S (5D)6D
253.1107	-3.618	2837.950	2.5	D7 (5D)4F	42334.822	2.5	4P (5D)6F	254.1360	-3.491	102802.312	2.5	6S (5D)4D
253.1279	-3.439	83726.364	4.5	D5S2(7S)4D	44232.512	4.5	4P (5D)4F	254.1443	-1.248	105414.180	2.5	4D (3F)4G
253.1732	-4.169	60270.339	3.5	D5S2(7S)4D	99757.120	4.5	4P (1G)2G	254.1490	-1.929	100492.020	3.5	5S (3F)2F
253.1942	-1.142	105063.550	5.5	4D (3F)4G	65580.041	5.5	4P (3G)4G	254.1836	-0.128	21711.917	3.5	D6S (3H)4H
253.1984	-2.790	105414.180	2.5	4D (3F)4G	65931.334	3.5	4P (3G)4G	254.2306	-0.830	103608.909	4.5	5S (3G)2G
253.2101	-2.445	83713.536	3.5	4D (5D)6D	44232.512	4.5	4P (3G)4G	254.2403	-3.103	3117.461	1.5	D7 (5D)4F
253.3511	-0.973	105155.090	4.5	4D (3F)4G	65960.038	4.5	4P (5D)4F	254.2439	-0.152	86710.837	1.5	4D (5D)4F
253.3628	0.331	21430.359	5.5	D6S (3H)4H	60887.598	5.5	4P (3G)4G	254.2736	-0.471	26932.748	0.5	D6S (3F)2P
253.4113	-3.069	102394.718	3.5	6S (5D)4D	62945.038	3.5	4P (3H)4H	254.3156	-2.264	54902.315	1.5	D6S (3F)2P
253.4164	-1.271	86416.333	3.5	4D (5D)4D	46967.444	2.5	4P (5D)4P	254.3279	-2.578	54904.222	3.5	D6S (3F)2F
253.4356	-0.607	22637.205	4.5	D6S (3F)4F	62083.108	4.5	4P (3H)4H	254.3303	-4.720	104863.430	5.5	5D (5D)4G
253.4419	0.093	21711.917	3.5	D6S (3H)4H	61156.835	3.5	4P (3H)4H	254.3431	-0.501	21581.638	4.5	D6S (3H)4H
253.5362	-0.010	44929.550	2.5	D6S (1F)2F	84359.800	1.5	4P (1F)2D	254.3782	-1.462	105763.270	5.5	4D (3F)4H
253.5486	-0.360	22637.205	4.5	D6S (3F)4F	62065.521	3.5	4P (3F)4F	254.4672	-3.470	99688.337	3.5	5S (3F)4F
								254.4681	-7.777	3117.461	1.5	D7 (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
254.4883	-2.253	84326.912	2.5	4D (5D)6P	45044.168	1.5	4P (5D)4D	255.3472	-1.120	33501.253	3.5	D6S (1G)2G	72651.876	3.5	4P (3D)4D
254.4973	-0.451	21812.055	1.5	D6S (3F)4F	61093.413	2.5	4P (3P)2D	255.3551	-1.467	33501.253	3.5	D6S (1G)2G	72650.658	4.5	4P (3D)4F
254.5073	-3.281	105211.140	4.5	5D (5D)4G	65931.334	3.5	4P (3G)4G	255.3696	-2.108	105524.461	4.5	4D (3F)4H	66377.283	3.5	4P (3G)4F
254.5094	-1.379	83726.364	4.5	4D (5D)6D	44446.878	3.5	4P (5D)4D	255.3741	-2.286	20516.960	2.5	D7 (3D)2D	59663.456	1.5	4P (3P)4S
254.5173	-2.379	105291.010	3.5	4D (3F)4G	66012.750	4.5	4P (3G)4F	255.4402	-3.160	105155.090	4.5	4D (3F)4G	66012.750	4.5	4P (3G)4F
254.5221	-0.136	21711.917	3.5	D6S (3H)4H	60989.444	4.5	4P (3H)4H	255.4442	-2.465	31387.948	2.5	D6S (3D)4D	70523.706	3.5	4P (3G)2G
254.5444	-0.849	27314.922	3.5	D6S (3F)2F	66589.008	4.5	4P (3G)4H	255.4489	-3.853	54902.315	1.5	D6S (3P)2P	94031.378	0.5	4SP (5D)6D
254.5531	-3.339	22810.357	3.5	D6S (3F)4F	62083.108	4.5	4P (3H)2G	255.4945	-1.528	25981.629	3.5	D6S (3G)4G	65109.490	2.5	4P (3F)2G
254.5926	-1.650	83713.536	3.5	4D (5D)6D	44446.878	3.5	4P (5D)4D	255.5068	-0.799	22939.358	2.5	D6S (3F)4F	62065.521	3.5	4P (3F)4F
254.6032	-1.650	54063.459	0.5	D6S (3P)2P	93238.480	1.5	4P (3F)4F	255.5357	-3.712	102394.718	3.5	6S (5D)4D	63272.976	2.5	4P (3F)4F
254.6671	-0.243	22810.357	3.5	D6S (3F)4F	62065.521	3.5	4P (3F)4F	255.5454	-0.748	23031.300	1.5	D6S (3F)4F	62151.561	2.5	4P (3F)4F
254.6851	-4.519	54232.195	5.5	D5S2(7S)4G	93484.580	4.5	4P (3F)4F	255.5489	-2.679	54275.637	2.5	D5S2(7S)4G	93395.360	2.5	4P (3F)4F
254.7199	-3.601	84326.912	2.5	4D (5D)6P	45079.879	2.5	4P (5D)4F	255.5577	-4.506	50912.826	2.5	D6S (3P)4F	89331.195	1.5	5P (5D)6D
254.7339	-0.412	21711.917	3.5	D6S (3H)4H	60956.781	3.5	4P (3H)4G	255.5586	-1.533	33501.253	3.5	D6S (1G)2G	72619.490	2.5	4P (3D)4D
254.7377	-3.493	54904.222	3.5	D6S (3F)2F	94148.510	4.5	4SP (5G)4G	255.5625	-2.173	54870.528	2.5	D6S (3F)2F	93988.170	2.5	4SP (5G)4G
254.7742	-3.803	22810.357	3.5	D6S (3F)4F	62049.025	2.5	4SP (7S)6P	255.5671	-4.307	54870.528	2.5	D6S (3F)2F	93987.457	3.5	4SP (5D)6D
254.8158	-2.960	22939.358	2.5	D6S (3F)4F	61041.748	2.5	4P (3H)4G	255.5984	-2.795	54283.220	3.5	D5S2(7S)4G	93395.360	2.5	4P (3F)4F
254.8325	-1.383	21812.055	1.5	D6S (3P)4F	62071.615	3.5	4P (3H)4G	255.6146	-2.869	22939.358	2.5	D5S2(7S)4G	62049.025	2.5	4SP (7S)6P
254.8482	-2.399	26352.766	4.5	D6S (3H)2H	65580.041	5.5	4P (3G)4G	255.6226	-3.537	105630.750	2.5	5D (5D)4G	66522.304	2.5	4P (3G)4F
254.8591	-0.229	21581.638	4.5	D6S (3H)4H	60807.230	4.5	4P (3H)4G	255.6248	-7.900	13474.411	2.5	D7 (5D)4P	52582.510	3.5	4SP (7S)6P
254.8710	-1.627	105155.090	4.5	4D (3F)4G	65931.334	3.5	4P (3G)4G	255.6838	-4.299	105711.730	2.5	5D (5D)6S	66612.656	1.5	4P (3G)4F
254.8744	-0.287	21812.055	1.5	D6S (3P)4F	61035.287	0.5	4P (3P)4G	255.7084	-1.101	21711.917	3.5	D6S (3H)4H	60807.230	4.5	4P (3H)4G
254.8923	-0.470	32909.905	5.5	D6S (1I)2I	72130.390	4.5	4P (1G)2H	255.7151	-3.394	21308.040	1.5	D7 (5D)2D	60402.342	2.5	4P (3P)4P
254.9084	-0.749	58631.531	4.5	D6S (1G)2G	97851.350	4.5	4P (1G)2H	255.7151	-1.292	23031.300	1.5	D6S (3F)4F	62125.600	1.5	4P (3P)2D
254.9090	-3.822	84424.370	1.5	4D (5D)6P	45206.450	0.5	4P (5D)4D	255.7245	-3.721	47674.721	1.5	D7 (5D)2D	86767.577	2.5	4P (3P)4D
254.9126	-4.186	3117.461	1.5	D7 (5D)4F	42334.822	2.5	4P (5D)6F	255.7506	-0.661	22637.205	4.5	D6S (3F)4F	61726.077	3.5	4P (3P)4D
254.9344	-4.349	54273.641	4.5	D5S2(7S)4G	93487.650	3.5	4P (3F)4F	255.7602	-3.803	102030.912	3.5	6S (5D)6D	45044.168	1.5	4P (5D)4D
254.9395	-0.167	23031.300	1.5	D6S (3F)4F	62244.520	1.5	4P (3F)4F	255.7775	-2.542	86710.837	1.5	4D (5D)4F	47626.076	0.5	4P (5D)4F
254.9426	-2.213	105291.010	3.5	4D (3F)4G	66078.269	2.5	4P (3G)4G	255.7828	-3.390	54904.222	3.5	D6S (3F)2F	93988.170	2.5	4SP (5G)4G
254.9461	-0.113	22939.358	2.5	D6S (3F)4F	62151.561	2.5	4P (3F)4F	255.8182	-4.984	102543.648	1.5	6S (5D)6D	63465.109	1.5	4P (3F)4D
254.9466	-2.872	105589.420	3.5	4D (3F)4H	66377.283	3.5	4P (3G)4H	255.8593	-3.435	105449.540	3.5	5D (5D)4G	66377.283	3.5	4P (3G)4F
254.9474	-3.736	54275.637	2.5	D5S2(7S)4G	93487.650	3.5	4P (3F)4F	255.8930	-1.938	105589.420	3.5	4D (3F)4H	66522.304	2.5	4P (3G)4F
254.9544	-2.801	24773.641	4.5	D5S2(7S)4G	47389.779	1.5	4P (5D)4F	255.9242	-1.349	27314.922	3.5	D6S (3F)2F	66377.283	3.5	4P (3G)4F
254.9607	-1.756	86599.738	2.5	4D (5D)4F	93484.580	4.5	4P (3F)4F	255.9322	-4.404	102334.112	2.5	6S (5D)6D	63272.976	2.5	4P (3F)4D
254.9775	-1.153	27314.922	3.5	D6S (3F)2F	66522.304	2.5	4P (3G)4F	255.9335	-2.798	105524.461	4.5	4D (3F)4H	66463.528	5.5	4P (3G)4H
254.9910	-2.448	83990.063	1.5	4D (5D)6D	44784.761	2.5	4P (5D)4D	255.9494	-4.721	83812.316	2.5	4D (3D)6D	44753.799	3.5	4P (5D)4F
254.9967	-2.870	54283.220	3.5	D5S2(7S)4G	93487.650	3.5	4P (3F)4F	255.9773	-0.674	26055.423	2.5	D6S (3G)4G	65109.679	3.5	4P (3F)2G
255.0026	0.246	26352.766	4.5	D6S (3H)2H	65556.280	4.5	4P (3H)2H	255.9865	-2.307	54275.637	2.5	D5S2(7S)4G	93328.480	1.5	4P (3F)4F
255.0152	-0.405	77861.625	4.5	5S (5D)6D	38660.043	3.5	4P (5D)6D	255.9926	-0.731	27620.412	2.5	D6S (3F)2F	66672.334	3.5	4P (3G)4H
255.0167	-3.664	54283.220	3.5	D5S2(7S)4G	93484.580	4.5	4P (3F)4F	255.9999	-1.184	105063.550	5.5	4D (3F)4F	6672.750	4.5	4P (3G)4H
255.0360	-3.711	105211.140	4.5	5D (5D)4G	66012.750	4.5	4P (3G)4F	256.0283	-0.114	25787.598	1.5	D6S (3P)2P	64834.073	1.5	4P (3P)2P
255.0378	-4.303	108804.667	3.5	5S (3D)4D	69606.552	3.5	4P (3G)2F	256.0458	-1.688	21581.638	4.5	D6S (3H)4D	60625.449	5.5	4P (3H)4D
255.0487	-4.723	105127.770	2.5	5D (5D)4D	65931.334	3.5	4P (3G)4G	256.0673	-2.602	31483.176	3.5	D6S (3D)4D	70523.706	3.5	4P (3G)2G
255.0575	-0.839	21430.359	5.5	D6S (3H)4H	60625.449	5.5	4P (3H)4H	256.0897	-3.901	84326.912	2.5	4D (5D)6P	45289.801	1.5	4P (5D)4F
255.0684	0.213	26170.181	5.5	D6S (3H)2H	65363.595	5.5	4P (3H)2H	256.0911	-2.691	105414.180	2.5	4D (3F)4G	66377.283	3.5	4P (3G)4F
255.1121	-2.766	84266.556	3.5	4D (5D)6F	45079.879	2.5	4P (5D)4F	256.0998	-4.932	22939.358	2.5	D6S (3F)4F	61974.933	1.5	4SP (7S)6P
255.1152	-1.744	22939.358	2.5	D6S (3F)4F	62125.600	1.5	4P (3P)2D	256.1299	-4.720	103118.400	1.5	6S (5D)4D	64087.418	2.5	4P (3F)4G
255.1204	-0.300	33466.463	4.5	D6S (1G)2G	72651.876	3.5	4P (3D)4D	256.1524	-2.062	83812.316	2.5	4D (5D)6D	44784.761	2.5	4P (5D)4D
255.1225	0.425	58666.258	3.5	D6S (1G)2G	97851.350	4.5	4P (1G)2H	256.1586	-1.671	25805.328	4.5	D6S (3G)4G	64831.943	4.5	4P (3F)2G
255.1284	-0.586	33466.463	4.5	D6S (1G)2G	72650.658	4.5	4P (3D)4H	256.1775	-4.071	100749.810	2.5	5S (3F)2F	61726.077	3.5	4P (3P)4D
255.1740	-4.521	104873.230	3.5	5D (5D)4D	65696.038	4.5	4P (3G)4G	256.2145	-2.805	105630.750	2.5	5D (5D)4F	66612.656	1.5	4P (3G)4F
255.1931	-2.452	105763.270	5.5	4D (3F)2H	66589.008	4.5	4P (3G)4H	256.2157	-2.805	23031.300	1.5	D6S (3F)4F	62049.025	2.5	4SP (7S)6P
255.2048	-4.976	104868.500	4.5	5D (5D)6G	65696.038	4.5	4P (3G)4G	256.2093	-0.462	25787.598	1.5	D6S (3P)2P	64806.487	0.5	4P (3P)2P
255.2272	-2.351	54904.222	3.5	D6S (3F)2F	94073.240	3.5	4SP (5G)4G	256.2170	-3.550	23031.300	1.5	D6S (3F)4F	62049.025	2.5	4SP (7S)6P
255.2378	-2.766	104863.430	5.5	5D (5D)4G	65696.038	4.5	4P (3G)4G	256.2536	0.071	7955.299	3.5	D6S (5D)4D	46967.444	2.5	4P (5D)4F
255.3281	-4.248	54904.222	3.5	D6S (3F)2F	94057.773	4.5	4SP (5G)6D	256.2623	-1.731	26352.766	4.5	D6S (3H)2H	65363.595	5.5	4P (3H)2H
255.3410	-2.751	103983.510	3.5	5S (3G)2G	64831.943	4.5	4P (5F)2G	256.2718	-4.307	104705.420	3.5	5D (5D)6D	65696.038	4.5	4P (3G)4G
								256.3019	-5.756	23317.633	2.5	D5S2(7S)6S	62322.431	3.5	4P (3H)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
256.3307	-2.713	105589.420	3.5	4D (3F)4H	66589.008	4.5	4P (3G)4H	257.2968	-2.663	2317.633	2.5	D5S2(7S)6S
256.3476	-0.215	8391.938	2.5	D6S (5D)4D	47389.779	1.5	4P (5D)4P	257.3091	-4.210	105254.461	4.5	4D (3F)4H
256.3844	-1.347	27620.412	2.5	D6S (3F)2F	66612.656	1.5	4P (3G)4F	257.3187	-1.160	33501.253	3.5	D5S (5D)2G
256.4178	-2.979	105398.852	5.0	4D (3F)4H	66411.686	6.5	4P (3G)4H	257.3211	-0.786	104863.430	5.5	5D (5D)4G
256.4690	-4.625	100492.020	3.5	5S (3F)2F	61512.634	4.5	4P (3H)4I	257.3211	-0.786	25981.629	3.5	D6S (3G)4G
256.5139	-2.676	83726.364	4.5	4D (5D)6D	44753.799	3.5	4P (5D)4F	257.3452	-2.774	54283.220	3.5	D5S2(7S)4G
256.5320	-3.160	54870.528	2.5	D6S (3F)2F	93840.340	1.5	4SP(5D)6D	257.3757	-1.704	30764.485	3.5	D6S (3G)2G
256.5584	-2.492	102842.119	4.5	5S (3F)4G	63876.317	5.5	4P (3F)4G	257.4297	-6.136	23317.633	2.5	D5S2(7S)6S
256.5983	-2.001	83713.536	3.5	4D (5D)6D	44753.799	3.5	4P (5D)4F	257.4302	-2.619	105211.140	4.5	5D (5D)4G
256.6220	0.456	44915.046	3.5	D6S (1F)2F	83871.184	4.5	4P (1F)2D	257.4367	0.024	20930.582	2.5	D6S (3P)4P
256.6401	0.140	44915.046	3.5	D6S (1F)2F	83868.450	2.5	4P (1F)2D	257.4463	-3.096	31483.176	3.5	D6S (3D)4D
256.6508	-1.358	104315.370	6.5	4D (3H)2K	65363.595	5.5	4P (3H)2H	257.4868	-2.703	105288.847	6.5	4D (3F)4H
256.6624	-0.954	22637.205	4.5	D6S (3F)4F	61587.214	5.5	4P (3H)4I	257.4879	-1.490	99918.569	1.5	5S (3F)4F
256.6771	-0.457	99573.225	4.5	5S (3F)4F	60625.449	5.5	4P (3H)4I	257.4890	-1.510	13474.441	2.5	D7 (5D)4D
256.6895	-2.911	57411.065	2.5	D5S2(7S)4P	96336.960	3.5	4SP(3G)2F	257.5894	-2.750	105398.852	5.5	4D (3F)4H
256.6995	-0.609	8680.454	1.5	D6S (5D)4D	45044.168	1.5	4P (5D)4D	257.6019	-4.875	23317.633	2.5	D5S2(7S)6S
256.7045	-3.982	23031.300	1.5	D6S (3F)4F	47626.076	0.5	4P (5D)4P	257.6126	-3.075	57411.065	2.5	D5S2(7S)4P
256.7357	-1.730	44929.550	2.5	D6S (1F)2F	61974.933	1.5	4SP(7S)6P	257.6447	-1.395	105414.180	2.5	4D (3F)4F
256.7414	-3.973	54902.315	1.5	D6S (3P)2P	83868.450	2.5	4P (1F)2D	257.6466	-1.974	102842.119	4.5	5S (3G)4G
256.7471	-4.293	104868.500	4.5	5D (5D)6G	65931.334	3.5	4P (3G)4G	257.6862	0.420	49100.976	0.5	D6S (3P)4P
256.7584	-3.457	105524.461	4.5	4D (3F)4H	66589.008	4.5	4P (3G)4H	257.7430	-1.375	22939.358	2.5	D6S (3F)4F
256.7592	-2.830	105398.852	5.5	4D (3F)4H	66463.528	5.5	4P (3G)4H	257.7467	-4.883	57493.321	1.5	D5S2(7S)4P
256.8032	-3.254	54902.315	1.5	D6S (3P)2P	93830.979	2.5	4SP(5D)6D	257.7637	-3.669	83990.063	1.5	4D (5D)6D
256.8105	-3.944	50075.910	1.5	D6S (3F)4F	89003.460	0.5	4P (3P)2S	257.7724	-1.006	99824.045	2.5	5S (3F)4F
256.8126	-2.704	105449.540	3.5	5D (5D)4G	66522.304	2.5	4P (3G)4F	257.7923	-0.575	8846.768	0.5	D6S (5D)4D
256.8149	-6.053	23317.633	2.5	D5S2(7S)6S	62244.520	1.5	4P (3F)4F	257.7967	-2.749	26055.423	2.5	D6S (3G)4G
256.8158	-3.275	54904.222	3.5	D6S (3F)2F	93830.979	2.5	4SP(5D)6D	257.8023	-1.045	105155.090	4.5	4D (3F)4F
256.8266	-3.576	84131.563	0.5	4D (5D)6D	45206.450	0.5	4P (5D)4D	257.8079	-1.609	103608.909	4.5	5S (3G)2G
256.8411	-0.622	22409.852	0.5	D6S (3P)4P	61332.764	1.5	4P (3P)4P	257.8218	-2.810	100749.810	2.5	5S (3F)2F
256.8622	-2.422	103751.660	5.5	4D (3H)4H	64831.943	4.5	4P (3P)2G	257.8628	-1.315	105291.010	3.5	4D (3F)4G
256.8886	-0.774	22810.357	3.5	D6S (3F)4F	61726.077	3.5	4P (3P)4D	257.8665	-3.315	83812.316	2.5	4D (5D)6D
256.9018	-2.242	105291.010	3.5	4D (3F)4G	66377.283	3.5	4P (3F)4F	257.8808	-1.069	99373.225	4.5	5S (3F)4F
256.9486	-4.952	50212.826	2.5	D6S (3P)4P	89119.457	2.5	5P (5D)6D	257.8812	-2.703	100492.020	3.5	5S (3F)2F
256.9662	-2.102	83136.487	3.5	4D (5D)6F	44232.512	4.5	4P (1S)2P	257.8984	-2.384	27314.922	3.5	D6S (3F)2F
256.9784	-0.146	37227.326	0.5	D6S (1S)2S	76129.446	1.5	4P (1S)2P	257.9112	-4.461	102802.312	2.5	6S (5D)4D
256.9799	-1.981	27620.412	2.5	D6S (3F)2F	66522.304	2.5	4P (3G)4F	257.9117	0.016	85728.806	1.5	4D (5D)4S
257.0107	-3.643	104593.270	5.5	5D (5D)6G	65696.038	4.5	4P (3G)4G	257.9345	-4.553	102030.912	3.5	6S (5D)6D
257.0365	-2.462	102842.119	4.5	5S (3G)4G	63948.790	4.5	4P (3F)4G	257.9413	-1.943	27620.412	2.5	D6S (3F)2F
257.0461	-2.200	105414.180	2.5	4D (3F)4G	66522.304	2.5	4P (3F)4F	257.9415	-1.943	105127.770	2.5	5D (5D)4D
257.0548	-3.210	48039.090	2.5	D7 (5D)2D	86929.649	3.5	4P (3P)4D	257.9840	-3.652	20930.582	2.5	D6S (3F)2F
257.0849	0.037	30764.485	3.5	D6S (3G)2G	69650.484	2.5	4P (3G)2F	258.0013	-4.555	23317.633	2.5	D5S2(7S)6S
257.0878	-0.877	33466.463	4.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F	258.0128	-1.662	82978.677	4.5	4D (5D)6F
257.1029	-3.639	99918.569	1.5	5S (3F)4F	61035.287	0.5	4P (3P)4P	258.0416	-1.734	105414.180	2.5	4D (3F)4G
257.1173	-0.574	99918.569	1.5	5S (3F)4F	61041.748	2.5	4P (3H)4G	258.0416	-1.734	105414.180	2.5	4D (3F)4G
257.1456	-0.426	99918.569	1.5	5S (3F)4F	61512.634	4.5	4P (3H)4I	258.0721	-2.156	33501.253	3.5	D6S (1G)2G
257.1549	-1.461	22637.205	4.5	D6S (3F)4F	65109.679	3.5	4P (3F)4G	258.0850	-1.280	104315.370	6.5	4D (3H)2K
257.1654	-2.157	103983.510	3.5	5S (3G)2G	86547.490	2.5	4P (1F)2F	258.1101	-0.764	83812.316	2.5	4D (5D)6D
257.1725	-3.282	47674.721	1.5	D7 (5D)2D	86543.974	1.5	4P (3P)4D	258.1163	-1.820	99824.045	2.5	5S (3F)4F
257.1957	-3.139	47674.721	1.5	D7 (5D)2D	63465.109	1.5	4P (3F)4D	258.1306	-2.894	48039.090	2.5	D7 (5D)2D
257.1974	-4.676	102334.112	2.5	6S (5D)6D	60956.781	3.5	4P (3H)4G	258.2265	-3.760	47674.721	1.5	D7 (5D)2D
257.2089	-0.489	99824.045	2.5	5S (3F)4F	87964.650	1.5	4SP(5P)6D	258.2388	-3.064	85679.698	2.5	4D (5D)4D
257.2326	-3.742	83308.194	2.5	D6S (3P)4P	44446.878	3.5	4P (5D)4D	258.2413	-0.714	31811.822	2.5	D7 (5D)2F
257.2482	-4.013	93308.194	2.5	4D (5D)6F	66012.750	3.5	4P (3G)4F	258.2584	-0.449	8680.454	1.5	D6S (5D)4D
257.2538	-4.088	104873.230	3.5	5D (5D)4D	66012.750	3.5	4P (3F)4F	258.2629	-2.065	102584.963	5.5	5S (3G)4G
257.2817	-2.623	54273.641	4.5	D5S2(7S)4G	93129.900	3.5	4P (3F)4D	258.2762	-0.825	99332.102	4.5	5S (3H)2H
257.2851	-4.738	104868.500	4.5	5D (5D)6G	66012.750	4.5	4P (3G)4F	258.2762	-0.825	99332.102	4.5	5S (3H)2H
257.2949	-3.859	54275.637	2.5	D5S2(7S)4G	93129.900	3.5	4P (3F)4D	258.3054	-1.691	61512.634	4.5	4P (3H)4I

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
258.3073	-1.978	105291.010	3.5	4D (3F)4G	66589.008	4.5	4P (3G)4H	259.2870	-2.321	102842.119	4.5	5S (3G)4G
258.3134	-1.919	104064.670	6.5	4D (3H)4I	65363.595	5.5	4P (3H)2H	259.2963	-2.308	83308.194	2.5	4D (5D)6F
258.3189	-3.436	83990.063	1.5	5D (5D)6D	45289.801	1.5	4P (5D)4F	259.3094	-3.422	49506.934	1.5	D6S (3P)4F
258.3280	-1.635	99688.337	3.5	5S (3F)4F	60989.444	4.5	4P (3H)4H	259.3707	-4.043	105065.630	3.5	5D (5D)6G
258.3351	-1.753	27314.922	3.5	D6S (3F)2F	66012.750	4.5	4P (3G)4F	259.3729	-1.217	8846.768	0.5	D6S (5D)4D
258.3468	-4.346	50157.452	4.5	D6S (3F)4F	88853.533	3.5	5P (5D)6D	259.4228	-4.827	50187.813	3.5	D6S (3F)4F
258.3696	-4.046	104705.420	3.5	5D (5D)6D	66012.750	5.5	4P (3G)4F	259.4398	-2.455	73395.930	2.5	D5S2 (7S)4F
258.3846	-4.179	21711.917	3.5	D6S (3H)4H	60402.342	2.5	4P (3F)4P	259.4483	-2.437	82978.677	4.5	4D (5D)6F
258.3984	-4.881	105065.630	3.5	5D (5D)6G	66377.283	3.5	4P (3G)4F	259.4503	-4.994	99688.337	3.5	5S (3F)4F
258.4166	-2.195	99573.225	4.5	5S (3F)4F	60887.598	5.5	4P (3H)4H	259.4749	-2.839	83495.304	2.5	4D (5D)6S
258.4255	-2.139	100749.810	2.5	5S (3F)2F	62065.521	3.5	4P (3F)4F	259.4950	-1.091	99332.102	4.5	5S (3H)2H
258.4882	-2.653	83459.670	1.5	4D (5D)6F	44784.761	2.5	4P (5D)4D	259.4964	-1.047	31999.048	3.5	D7 (5D)2F
258.5397	-1.867	99824.045	2.5	5S (3F)4F	61156.835	3.5	4P (3H)4H	259.5047	-2.694	44784.761	2.5	4P (5D)4D
258.5616	-1.278	33466.463	4.5	D6S (1G)2G	72130.390	4.5	4P (1G)2H	259.5109	-4.000	83812.316	2.5	4D (5D)6D
258.5761	-1.278	26170.181	5.5	D6S (3H)2H	64831.943	4.5	4P (3F)2G	259.5278	-1.722	25428.784	5.5	D6S (3G)4G
258.6060	-3.113	0.000	4.5	D6S (5D)6D	8660.043	3.5	4P (5D)6D	259.5303	-2.164	22637.205	4.5	D6S (3F)4F
258.6423	-1.889	105063.550	5.5	4D (3F)4G	66411.686	6.5	4P (3G)4H	259.5550	-4.821	102802.312	2.5	6S (5D)4D
258.6777	-1.839	99688.337	3.5	5S (3F)4F	61041.748	2.5	4P (3H)4G	259.5657	-2.552	83558.540	0.5	4D (5D)6F
258.7364	-3.905	50212.826	1.5	D6S (3P)2P	64425.408	2.5	4P (3F)2F	259.6060	-3.313	48039.090	2.5	D7 (5D)2F
258.7474	-2.269	102584.963	5.5	5S (3G)4G	63948.790	4.5	4P (3F)4G	259.6270	-1.772	100749.810	2.5	5S (3F)2F
258.7642	-4.426	83713.536	3.5	4D (5D)6D	45079.879	2.5	4P (5D)4F	259.6297	-4.486	48039.090	2.5	D7 (5D)2D
258.7872	-4.482	105630.750	2.5	5D (5D)4G	67000.517	2.5	4P (3F)2D	259.6467	-3.449	57493.321	1.5	D5S2 (7S)4F
258.7945	0.356	33501.253	3.5	D6S (1G)2G	72130.390	4.5	4P (1G)2H	259.6678	-1.759	103608.909	4.5	5S (3G)2G
258.7997	-4.653	60270.339	3.5	D5S2 (7S)4D	88898.710	3.5	4P (1G)2F	259.6907	-4.826	104873.230	3.5	5D (5D)4D
258.8142	-8.689	13673.185	1.5	D7 (5D)4P	92299.390	2.5	4SP (7S)8P	259.6935	-2.172	85462.862	3.5	4D (5D)4G
258.8193	-1.439	22409.852	0.5	D6S (3P)4P	61035.287	0.5	4P (3P)4P	259.7096	-2.110	54902.315	1.5	D6S (3P)2F
258.8275	-1.255	100749.810	2.5	5S (3F)2F	92899.200	2.5	4P (3F)4D	259.7215	-3.338	99824.045	2.5	5S (3F)4F
258.8334	-2.595	60384.370	0.5	D5S2 (7S)4D	92899.200	2.5	4P (3F)4D	259.7224	-2.527	54904.222	3.5	D6S (3F)2F
258.8481	-2.225	82853.658	5.5	4D (5D)6F	44232.512	4.5	4P (5D)4F	259.7297	-3.570	108804.667	3.5	5S (3G)2G
258.8646	-2.378	105291.010	3.5	4D (3H)4I	66672.334	3.5	4P (3G)4H	259.7790	-3.087	105155.090	4.5	4D (3F)4G
258.8716	-4.034	105230.290	0.5	5D (5D)4D	66612.656	1.5	4P (3G)4F	259.7907	-3.013	25805.328	4.5	D6S (3G)4G
258.8751	-1.542	54870.528	2.5	D6S (3F)2F	60956.781	3.5	4P (3H)2H	259.7945	-1.287	36126.387	1.5	D6S (3D)2D
258.8796	-1.767	99573.225	4.5	5S (3F)4F	60562.656	1.5	4P (3G)4F	259.8032	-1.952	26352.766	4.5	D6S (3H)2H
258.8798	-1.309	27314.922	3.5	D6S (3F)2F	65931.334	3.5	4P (3G)4G	259.8095	-1.946	104174.270	5.5	4D (3H)4I
258.8827	-2.633	54283.220	3.5	D5S2 (7S)4G	92899.200	2.5	4P (3F)4G	259.8345	-2.024	105603.550	5.5	4D (3F)4G
258.8897	-3.107	105063.550	5.5	4D (3F)4G	66463.528	5.5	4P (3G)4H	259.8370	-0.027	384.790	3.5	D6S (5D)6D
259.0016	-3.001	100749.810	2.5	5S (3F)2F	62151.561	2.5	4P (3F)4F	259.8786	-1.754	99093.452	5.5	5S (3H)2H
259.0240	-2.142	99688.337	3.5	5S (3F)4F	61093.413	2.5	4P (3F)2D	259.9093	-3.471	33501.253	3.5	D6S (1G)2G
259.0266	-3.256	104174.270	5.5	4D (3H)4I	65580.041	5.5	4P (3G)4G	259.9396	0.418	0.000	4.5	D6S (5D)6D
259.0380	-4.540	105205.790	2.5	5D (5D)6G	66612.656	1.5	4P (3G)4F	259.9466	-4.380	54870.528	2.5	D6S (3F)2F
259.0551	-1.187	21812.055	1.5	D6S (3P)4P	60402.342	2.5	4P (3G)4G	259.9472	-0.746	27620.412	2.5	D6S (3F)2F
259.0644	-2.645	105589.420	3.5	4D (3F)4H	67000.517	2.5	4P (3F)2D	259.9771	-4.662	60445.275	2.5	D5S2 (7S)4D
259.0852	-3.470	99918.569	1.5	5S (3F)4F	61332.764	1.5	4P (3F)4P	259.9944	-4.542	104828.160	2.5	5D (5D)6D
259.0931	-2.460	57411.065	2.5	D5S2 (7S)4P	95995.690	2.5	4SP (5P)4D	260.0069	-3.590	105449.540	3.5	5D (5D)4G
259.0970	-3.364	54063.459	0.5	D6S (3F)2P	92647.510	1.5	4P (3F)4D	260.0170	-2.099	25428.784	5.5	D6S (3G)4G
259.0988	-2.222	99573.225	4.5	5S (3F)4F	93487.650	3.5	4P (3F)4F	260.0270	-2.980	57411.065	2.5	D5S2 (7S)4F
259.1011	-3.516	54904.222	3.5	D6S (3F)2F	93487.650	3.5	4P (3F)4F	260.0427	-1.984	25981.629	3.5	D6S (3G)4G
259.1207	-3.570	104593.270	5.5	5D (5D)6G	66012.750	4.5	4P (3G)4F	260.0644	-4.400	100492.020	3.5	5S (3F)2F
259.1218	-1.031	54904.222	3.5	D6S (3F)2F	93484.580	4.5	4P (3F)4F	260.0897	-3.702	73492.215	3.5	D5S2 (7S)4F
259.1543	-0.485	8391.938	2.5	D6S (5D)4D	46967.444	2.5	4P (3F)4P	260.0979	-4.739	102394.718	3.5	6S (5D)4D
259.2137	-2.782	60441.033	1.5	D5S2 (7S)4D	99007.700	0.5	4SP (5D)4D	260.0375	-2.077	99332.102	4.5	5S (3H)2H
259.2177	-2.523	105155.090	4.5	4D (3F)4G	66589.008	4.5	4P (3G)4H	260.0474	-4.400	100492.020	3.5	5S (3G)2F
259.2785	0.693	32875.646	6.5	D6S (11)2I	71432.680	7.5	4P (11)2K	260.1544	-0.462	100983.510	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	5S (3G)2G
								260.1593	-1.513	100492.020	3.5	5S (3F)2F
								260.1593	-1.513	100492.020	3.5	

61093.413	2.5	4P	(3F)2D	22810.357	3.5	D6S	(3F)4F	261.1342	-2.166	261.1342	-2.166	93328.480	1.5	4P	(3F)4F	54902.315	1.5	D6S	(3P)2P	260.1616	-3.614	260.1616	-3.614	54902.315	1.5	D6S	(3P)2P
70523.706	3.5	4P	(3D)4D	108804.667	3.5	5S	(3D)4D	261.1485	-2.980	261.1485	-2.980	92695.374	2.5	4P	(3P)2D	54275.637	2.5	D5S2	(7S)4G	260.2051	-3.019	260.2051	-3.019	54275.637	2.5	D5S2	(7S)4G
95858.050	1.5	4P	(5P)4D	57578.484	0.5	D5S2	(7S)4D	261.1580	0.993	261.1580	0.993	61156.835	3.5	4P	(3H)4H	99573.225	4.5	5S	(3F)4F	260.2278	-1.545	260.2278	-1.545	99573.225	4.5	5S	(3F)4F
38660.043	3.5	4P	(5D)6D	384.790	3.5	D6S	(5D)6D	261.1874	0.033	261.1874	0.033	45044.168	1.5	4P	(5D)4D	83459.670	1.5	4D	(5D)6F	260.2338	-2.542	260.2338	-2.542	83459.670	1.5	4D	(5D)6F
95767.700	0.5	4P	(5P)4D	57493.321	1.5	D5S2	(7S)4F	261.1934	-3.014	261.1934	-3.014	67000.517	2.5	4P	(3P)2D	105414.180	2.5	4D	(3F)4G	260.2463	-2.663	260.2463	-2.663	105414.180	2.5	4D	(3F)4G
45289.801	1.5	4P	(5D)4F	83558.540	0.5	4D	(5D)6F	261.2319	-3.277	261.2319	-3.277	92695.374	2.5	4P	(3P)2D	54283.220	3.5	D5S2	(7S)4G	260.2565	-2.343	260.2565	-2.343	54283.220	3.5	D5S2	(7S)4G
98535.850	3.5	4P	(5D)4F	60270.339	3.5	D5S2	(7S)4D	261.2539	-3.237	261.2539	-3.237	62083.108	4.5	4P	(3H)2G	100492.020	3.5	5S	(3F)2F	260.2785	-0.990	260.2785	-0.990	100492.020	3.5	5S	(3F)2F
45044.168	1.5	4P	(5D)4D	83308.194	2.5	4D	(5D)6F	261.2641	-2.751	261.2641	-2.751	61726.077	3.5	4P	(3H)4G	23317.633	2.5	D5S2	(7S)6S	260.2816	-0.884	260.2816	-0.884	23317.633	2.5	D5S2	(7S)6S
69650.484	2.5	4P	(3G)2F	31387.948	2.5	D6S	(3D)4D	261.2742	-2.577	261.2742	-2.577	61332.764	1.5	4P	(3P)4P	44915.046	3.5	D6S	(1F)2F	260.3836	-2.966	260.3836	-2.966	44915.046	3.5	D6S	(1F)2F
93129.900	3.5	4P	(3F)4D	54870.528	2.5	D6S	(3F)2F	261.2959	-1.940	261.2959	-1.940	83305.251	3.5	4P	(1F)2G	83305.251	3.5	4P	(1F)2G	260.4053	-0.870	260.4053	-0.870	83305.251	3.5	4P	(1F)2G
60837.569	6.5	4P	(3H)4H	99093.452	5.5	5S	(3H)2H	261.3197	-1.428	261.3197	-1.428	92453.460	0.5	4P	(3F)4D	54063.459	0.5	D6S	(3P)2P	260.4067	-2.184	260.4067	-2.184	54063.459	0.5	D6S	(3P)2P
92314.758	0.5	5P	(5D)4D	84520.670	1.5	4D	(5D)6F	261.3379	-2.719	261.3379	-2.719	65363.595	5.5	4P	(3H)2H	103751.660	5.5	4D	(3H)4H	260.4198	-3.879	260.4198	-3.879	103751.660	5.5	4D	(3H)4H
60887.598	5.5	4P	(3H)4H	54063.459	0.5	D6S	(3F)2P	261.3510	-2.170	261.3510	-2.170	98770.140	1.5	4SP	(5D)4D	60384.370	0.5	D5S2	(7S)4D	260.4354	-2.775	260.4354	-2.775	60384.370	0.5	D5S2	(7S)4D
67516.332	5.5	4P	(3G)2H	22637.205	4.5	D6S	(3F)4F	261.3572	-3.912	261.3572	-3.912	44753.799	3.5	4P	(5D)4F	83136.487	3.5	4D	(5D)6F	260.4563	-2.131	260.4563	-2.131	83136.487	3.5	4D	(5D)6F
39109.307	0.5	4P	(5D)6D	105763.270	5.5	4D	(3F)2H	261.3808	-0.920	261.3808	-0.920	65696.038	4.5	4P	(3G)4G	83136.487	3.5	4D	(5D)6F	260.4670	-1.635	260.4670	-1.635	83136.487	3.5	4D	(5D)6F
65363.595	5.5	4P	(3H)2H	862.613	1.5	D6S	(5D)6D	261.3825	-0.322	261.3825	-0.322	45079.879	2.5	4P	(5D)4F	27314.922	3.5	4D	(5D)6F	260.4760	-2.619	260.4760	-2.619	45079.879	2.5	4P	(5D)4F
74498.037	1.5	4P	(3D)2D	103608.909	4.5	5S	(3G)2G	261.3919	-0.326	261.3919	-0.326	64425.408	2.5	4P	(1F)2F	83459.670	1.5	4D	(5D)6F	260.4956	-4.838	260.4956	-4.838	83459.670	1.5	4D	(5D)6F
65536.595	5.5	4P	(3H)2H	36252.918	2.5	D6S	(3D)2D	261.3931	-0.815	261.3931	-0.815	64425.408	2.5	4P	(1F)2F	102802.312	2.5	6S	(5D)4D	260.5037	-0.324	260.5037	-0.324	102802.312	2.5	6S	(5D)4D
64040.886	3.5	4P	(3F)4G	27314.922	3.5	D6S	(3F)2F	261.4189	-1.452	261.4189	-1.452	60956.781	3.5	4P	(3H)4G	44929.550	2.5	D6S	(1F)2F	260.5192	-0.324	260.5192	-0.324	44929.550	2.5	D6S	(1F)2F
61041.748	2.5	4P	(3H)4G	103600.440	6.5	4D	(3H)4H	261.4498	-1.995	261.4498	-1.995	60956.781	3.5	4P	(3H)4G	99332.102	4.5	5S	(3H)2H	260.5303	-1.961	260.5303	-1.961	99332.102	4.5	5S	(3H)2H
64286.345	3.5	4P	(3F)2F	25805.328	4.5	D6S	(3G)4G	261.4586	-1.850	261.4586	-1.850	92647.510	1.5	4P	(3D)4D	54275.637	2.5	D5S2	(7S)4G	260.5297	-2.442	260.5297	-2.442	54275.637	2.5	D5S2	(7S)4G
45079.879	2.5	4P	(5D)4F	60270.339	3.5	D5S2	(7S)4D	261.4641	-3.600	261.4641	-3.600	64425.408	2.5	4P	(3F)2F	36126.387	1.5	D6S	(3D)2D	260.5311	-0.047	260.5311	-0.047	36126.387	1.5	D6S	(3D)2D
93129.900	3.5	4P	(3F)4D	22810.337	2.5	D6S	(3F)4F	261.4871	-1.473	261.4871	-1.473	64425.408	2.5	4P	(3F)2F	26055.423	2.5	D6S	(3G)4G	260.5425	-0.769	260.5425	-0.769	26055.423	2.5	D6S	(3G)4G
69606.552	3.5	4P	(3G)2F	54904.222	3.5	D6S	(3F)2F	261.5081	-2.552	261.5081	-2.552	95858.050	1.5	4SP	(5S)4P	57493.321	1.5	D5S2	(7S)4P	260.5782	-2.693	260.5782	-2.693	57493.321	1.5	D5S2	(7S)4P
61156.835	3.5	4P	(3H)4H	82978.677	4.5	4D	(5D)6F	261.5317	-4.258	261.5317	-4.258	76577.482	0.5	4P	(1S)2P	8214.507	1.5	D6S	(1D)2D	260.5902	-1.040	260.5902	-1.040	8214.507	1.5	D6S	(1D)2D
60887.598	5.5	4P	(3H)4H	31387.948	2.5	D6S	(3D)4D	261.5746	-2.072	261.5746	-2.072	59663.456	1.5	4P	(3F)2D	105630.750	2.5	5D	(5D)4G	260.6415	-4.277	260.6415	-4.277	105630.750	2.5	5D	(5D)4G
92432.136	5.5	4SP	(5D)6F	22939.358	2.5	D6S	(3F)4F	261.5823	-1.599	261.5823	-1.599	74606.841	2.5	4P	(3H)4D	262637.205	4.5	D6S	(3D)2D	260.6517	-0.185	260.6517	-0.185	262637.205	4.5	D6S	(3D)2D
65556.280	4.5	4P	(3H)2H	103751.660	5.5	4D	(3H)4H	261.7336	-3.648	261.7336	-3.648	45206.450	0.5	4P	(5D)4D	83136.487	3.5	4D	(5D)6F	260.6641	-2.566	260.6641	-2.566	83136.487	3.5	4D	(5D)6F
92426.980	4.5	4SP	(5G)4F	54232.195	5.5	D5S2	(7S)4G	261.7377	-1.332	261.7377	-1.332	60989.444	4.5	4P	(3H)4H	667.683	2.5	D6S	(5D)6D	260.7023	-3.322	260.7023	-3.322	667.683	2.5	D6S	(5D)6D
88858.938	2.5	4P	(5D)6D	667.683	2.5	D6S	(5D)6D	261.7618	-0.530	261.7618	-0.530	60989.444	4.5	4P	(3H)4H	99332.102	4.5	5S	(3H)2H	260.7282	-4.101	260.7282	-4.101	99332.102	4.5	5S	(3H)2H
95767.700	0.5	4SP	(5P)4D	57578.484	0.5	D5S2	(7S)4D	261.7759	-3.325	261.7759	-3.325	62151.561	2.5	4P	(5D)4S	100492.020	3.5	5S	(3F)2F	260.7432	-1.996	260.7432	-1.996	100492.020	3.5	5S	(3F)2F
60989.444	4.5	4P	(3H)4H	22810.337	2.5	D6S	(3F)4F	261.8454	-1.355	261.8454	-1.355	47389.779	1.5	4P	(5D)4F	87528.806	1.5	4D	(5D)4S	260.7529	-0.271	260.7529	-0.271	47389.779	1.5	4D	(5D)4S
61156.835	3.5	4P	(3H)4H	99888.337	3.5	5S	(3F)4F	261.8686	-2.068	261.8686	-2.068	30764.485	3.5	D6S	(3G)2G	30764.485	3.5	D6S	(3G)2G	260.7606	-4.534	260.7606	-4.534	30764.485	3.5	D6S	(3G)2G
65580.041	5.5	4P	(3G)4G	99332.102	4.5	5S	(3H)2H	261.8716	-0.850	261.8716	-0.850	62158.110	4.5	4P	(3F)4F	100492.020	3.5	5S	(3F)2F	260.7877	-2.864	260.7877	-2.864	100492.020	3.5	5S	(3F)2F
60807.230	4.5	4P	(3H)4G	103751.660	5.5	4D	(3H)4H	261.8966	-2.440	261.8966	-2.440	98770.140	1.5	4SP	(5D)4D	60441.033	1.5	D5S2	(7S)4D	260.8204	-2.373	260.8204	-2.373	60441.033	1.5	D5S2	(7S)4D
45289.801	1.5	4P	(5D)4F	22637.205	4.5	D6S	(3F)4F	261.9075	-0.511	261.9075	-0.511	92602.703	3.5	4P	(3F)2G	54273.641	4.5	D5S2	(7S)4G	260.8207	-1.768	260.8207	-1.768	54273.641	4.5	D5S2	(7S)4G
62322.431	3.5	4P	(3H)2G																								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
262.2444	-1.967	60270.339	3.5	D582(7S)4D	98391.330	3.5	4SP(5D)4D	263.1425	-2.246	54283.220	3.5	D582(7S)4G	92274.120	2.5	4P(3P)4P
262.3130	-0.858	32875.646	6.5	D68(11)2I	70986.677	6.5	4P(11)2K	263.1603	-0.913	2637.205	4.5	D68(3F)4F	60625.449	5.5	4P(3H)4G
262.3313	-4.349	102394.718	3.5	6S(5D)4D	64286.345	3.5	4P(3F)2F	263.1769	-0.143	99573.225	4.5	5S(3F)4F	61587.214	5.5	4P(3H)4I
262.3491	-3.959	25981.629	3.5	D68(3G)4G	64087.418	2.5	4P(3F)4G	263.1801	-2.559	26055.423	2.5	D68(3C)4G	64040.886	3.5	4P(3F)4G
262.3509	-3.316	85495.304	2.5	4D(5D)6S	47389.779	1.5	4P(5D)4F	263.2821	-2.109	103983.510	3.5	5S(3G)2G	66012.750	4.5	4P(3G)4F
262.3613	-0.877	99093.452	5.5	5S(3H)2H	60989.444	4.5	4P(3H)4H	263.2822	-4.959	84938.180	1.5	4D(5D)6G	46967.444	2.5	4P(5D)4P
262.3701	-1.813	85728.806	1.5	4D(5D)4S	47626.076	0.5	4P(5D)4F	263.3070	-2.851	25981.629	3.5	D68(3G)4G	63948.790	4.5	4P(3F)4G
262.3725	-0.706	22939.358	2.5	D68(3F)4F	61041.748	2.5	4P(3H)4G	263.3203	-0.620	38164.194	2.5	D68(1D)2D	76129.446	1.5	4P(1S)2P
262.4029	-1.666	99824.045	2.5	5S(3F)4F	61726.077	3.5	4P(3P)4D	263.3410	-1.047	99688.337	3.5	5S(3F)4F	61726.077	3.5	4P(3F)4D
262.4538	-3.205	60445.275	2.5	D582(7S)4D	98535.850	2.5	4SP(5D)4F	263.3812	-4.541	105230.290	0.5	5D(5D)4D	67273.826	1.5	4P(3F)2D
262.4969	-3.452	60270.339	3.5	D582(7S)4D	98354.660	2.5	4SP(5D)4F	263.3989	-3.518	60384.370	0.5	D582(7S)4D	98338.280	1.5	4SP(5P)4S
262.5062	-1.614	54275.637	2.5	D582(7S)4G	92358.610	1.5	4SP(5G)4F	263.4268	-4.519	54275.637	2.5	D582(7S)4G	92225.538	1.5	5P(5D)4P
262.5187	-1.140	85048.602	1.5	4D(5D)4D	46967.444	2.5	4P(5D)4F	263.4535	-3.400	60445.275	2.5	D582(7S)4G	98391.330	3.5	4SP(5D)4P
262.5490	-0.615	32909.905	5.5	D68(11)2I	70986.677	6.5	4P(11)2K	263.4628	-2.411	80346.016	0.5	5S(5D)4D	42401.302	1.5	4P(5D)6F
262.5668	-0.438	384.790	3.5	D68(5D)6D	38458.981	4.5	4P(5D)6D	263.4703	-4.215	99918.569	1.5	5S(3F)4F	61974.933	1.5	4SP(7S)6P
262.5889	-1.650	25805.328	4.5	D68(3G)4G	63876.317	5.5	4P(3F)4G	263.4908	-3.114	54275.637	2.5	D582(7S)4G	92216.320	1.5	4P(3P)2D
262.6089	-3.563	54232.195	5.5	D582(7S)4G	92300.277	4.5	4SP(5D)6F	263.4989	-2.288	54232.195	5.5	D582(7S)4G	92171.716	4.5	4P(3F)2G
262.6294	-4.974	105065.630	3.5	5D(5D)6G	67000.517	2.5	4P(3F)2D	263.5118	-2.238	31364.440	1.5	D68(3D)4D	69302.090	1.5	4SP(5S)4P
262.6366	-3.133	60441.033	1.5	D582(7S)4D	98505.100	2.5	4SP(5D)4D	263.5344	-3.783	54232.195	5.5	D582(7S)4G	92166.600	5.5	4SP(5G)4H
262.6472	-2.286	31364.440	1.5	D68(3D)4D	69426.980	0.5	4SP(5S)4P	263.5397	-3.081	31368.450	0.5	D68(3D)4D	69302.090	1.5	4SP(5S)4P
262.6501	-1.213	23031.300	1.5	D68(3F)4F	61093.413	2.5	4P(3P)2D	263.5401	-1.406	26352.766	4.5	D68(3H)2H	64286.345	3.5	4P(3F)2F
262.6606	-1.611	99573.225	4.5	5S(3F)4F	61512.634	4.5	4P(3H)4I	263.6582	-4.376	50142.786	2.5	D68(3F)4F	88059.380	2.5	4SP(5P)6D
262.6652	-3.054	100749.810	2.5	5S(3F)2F	62689.880	2.5	4P(3P)4D	263.6697	-1.634	38214.507	1.5	D68(1D)2D	76129.446	1.5	4P(1S)2P
262.6659	-2.369	60445.275	2.5	D582(7S)4D	98505.100	2.5	4SP(5D)4D	263.6752	-1.881	31387.948	2.5	D68(3D)4D	69302.090	1.5	4SP(5S)4P
262.6698	-1.896	25981.629	3.5	D68(3G)4G	64040.886	3.5	4P(3F)4G	263.6788	-3.033	103608.909	4.5	5S(5D)6F	98354.660	2.5	4SP(5S)4P
262.6748	-2.328	31368.450	0.5	D68(3D)4D	69426.980	0.5	4SP(5S)4P	263.7083	-2.308	60445.275	2.5	D582(7S)4D	98354.660	2.5	4SP(5D)4F
262.7044	-2.384	83136.487	3.5	4D(5D)6F	45079.879	2.5	4P(5D)4F	263.7305	-2.560	80346.016	0.5	5S(5D)4D	42439.822	0.5	4P(5D)6F
262.7156	-2.160	103608.909	4.5	5S(3G)2G	65556.280	4.5	4P(3H)2H	263.7372	-3.311	103983.510	3.5	5S(3G)2G	66078.269	2.5	4P(3G)4G
262.7187	-2.712	103983.510	3.5	5S(3G)2G	65931.330	3.5	4P(3G)4G	263.7480	-3.217	104315.370	6.5	4D(3H)2K	66411.686	6.5	4P(3G)4H
262.7199	-3.244	50157.452	4.5	D68(3F)4F	88209.450	3.5	4SP(5P)6D	263.7498	-0.489	84870.863	2.5	4D(5D)4D	46967.444	2.5	4P(5D)4P
262.7567	-1.618	54283.220	3.5	D582(7S)4G	92329.890	2.5	4SP(5G)4F	263.7644	-0.548	26932.748	0.5	D68(3F)2P	64834.073	1.5	4P(3P)2P
262.8294	-0.427	977.053	0.5	D68(5D)6D	39013.200	1.5	4P(5D)6D	263.7870	-3.586	54273.641	4.5	D582(7S)4G	92171.716	4.5	4P(3F)2G
262.8581	-1.341	26055.423	2.5	D68(3G)4G	64087.418	2.5	4P(3F)4G	263.7928	-2.859	60441.033	1.5	D582(7S)4D	98338.280	1.5	4SP(5P)4S
262.8797	-1.121	103608.909	4.5	5S(3G)2G	65580.041	5.5	4P(3G)4G	263.8223	-3.625	60445.275	2.5	D582(7S)4D	98338.280	1.5	4SP(5P)4S
262.8811	-3.531	54870.528	2.5	D68(3F)2F	92899.200	2.5	4P(3F)4D	263.8227	-1.715	54273.641	4.5	D582(7S)4G	92166.600	5.5	4SP(5G)4H
262.8952	-3.795	54273.641	4.5	D582(7S)4G	92300.277	4.5	4SP(5D)6F	263.8520	-4.638	50075.910	1.5	D68(3F)4F	87964.650	1.5	4SP(3P)6D
262.9297	-4.543	50187.813	3.5	D68(3F)4F	88209.450	3.5	4SP(5P)6D	263.8537	-2.470	54283.220	3.5	D582(7S)4G	92171.716	4.5	4P(3F)2G
262.9383	-1.161	103600.440	6.5	4D(3H)4H	65580.041	5.5	4P(3G)4G	263.8810	-2.999	54232.195	5.5	D582(7S)4G	92116.780	4.5	4SP(5G)4H
262.9522	-3.520	83308.194	2.5	4D(5D)6F	45289.801	1.5	4P(5D)4F	263.8954	-4.467	54273.641	4.5	D582(7S)4G	67516.332	5.5	4SP(5D)6F
262.9548	-1.504	54232.195	5.5	D582(7S)4G	92250.210	6.5	4SP(5G)4H	263.9093	-4.196	54273.641	4.5	D582(7S)4G	92154.165	3.5	4SP(5D)6F
262.9589	-0.197	22939.358	2.5	D68(3F)4F	60956.277	3.5	4P(3H)4G	263.9232	-3.349	54275.637	2.5	D582(7S)4G	92154.165	3.5	4SP(5D)6F
262.9614	-3.782	54283.220	3.5	D582(7S)4G	92300.277	4.5	4SP(5D)6F	263.9565	-0.756	26932.748	0.5	D68(3F)2P	64806.487	0.5	4P(3P)2P
262.9747	-4.540	23317.633	2.5	D582(7S)6S	61332.764	1.5	4P(3P)4P	263.9717	-3.410	50187.813	3.5	D68(3F)4F	88059.380	2.5	4SP(3P)6D
263.0071	-0.278	23031.300	1.5	D68(3F)4F	61041.748	2.5	4P(3H)4G	263.9760	-4.279	54283.220	3.5	D582(7S)4G	92154.165	3.5	4SP(5D)6F
263.0090	-2.393	102842.119	4.5	5S(3G)4G	64831.943	4.5	4P(3F)2G	263.9858	-3.833	99918.569	1.5	5S(3F)4F	62049.025	2.5	4SP(7S)6P
263.0232	-4.013	105524.461	4.5	4D(3F)4H	67516.332	5.5	4P(3G)2H	264.1123	-1.593	21812.055	1.5	D68(3F)4F	59663.456	1.5	4P(3P)4S
263.0322	-4.510	54275.637	2.5	D582(7S)4G	92282.460	3.5	4SP(5G)4F	264.1092	-1.908	104315.370	6.5	4D(3H)2K	66463.528	5.5	4P(3G)4H
263.0359	-3.502	23031.300	1.5	D68(3F)4F	61035.282	0.5	4P(3P)4D	264.1420	-1.282	99373.225	4.5	5S(3F)4F	61726.077	3.5	4P(3P)4D
263.0847	-2.219	54283.220	3.5	D582(7S)4G	92282.460	3.5	4SP(5G)4F	264.1699	-2.220	80177.975	1.5	5S(5D)4D	42334.822	2.5	4P(5D)6F
263.1010	-3.048	54275.637	2.5	D582(7S)4G	92274.120	2.5	4P(3P)4D	264.1462	-4.233	50212.826	2.5	D68(3F)4P	88059.380	2.5	4SP(3P)6D
263.1028	-3.423	50212.826	2.5	D68(3F)2P	61035.282	0.5	4P(3P)4D	264.2012	-0.796	31811.822	2.5	D7(5D)2D	69650.484	2.5	4P(3H)4H
263.1048	-0.274	862.613	1.5	D68(5D)6D	60807.230	4.5	4P(3H)4G	264.2369	-2.034	54283.220	3.5	D582(7S)4G	92116.780	4.5	4SP(5G)4H
263.1142	-1.571	54904.222	3.5	D68(3F)2F	92899.200	2.5	4P(3F)4D	264.2978	-1.160	54870.528	2.5	D68(3F)2F	92695.170	2.5	4P(3P)2D
263.1324	-0.277	667.683	2.5	D68(5D)6D	38660.043	3.5	4P(5D)6D	264.3162	-4.375	50075.910	1.5	D68(3F)4F	87898.120	0.5	4SP(5G)6F
								264.3186	-3.829	50142.786	2.5	D68(3F)4F	87964.650	1.5	4SP(3P)6D
								264.3320	-2.114	98445.400	4.5	5S(3H)4H	60625.449	5.5	4P(3H)4G

66411.686	6.5	4P	(3G)4H
62171.615	3.5	4SP	(7S)6P
69650.484	2.5	4P	(3G)2F
42537.033	3.5	5S	(5D)4F
70986.677	6.5	4P	(11)2K
91915.950	1.5	4SP	(5D)6F
62049.025	2.5	4SP	(7S)6P
60956.781	3.5	4P	(3H)4G
67516.332	5.5	4P	(3G)2H
90807.230	4.5	4P	(3H)4G
65046.100	2.5	4P	(3F)2F
95039.200	1.5	4P	(3F)2P
62005.521	3.5	4P	(3F)4F
69102.380	2.5	4SP	(5S)4F
96279.490	2.5	4SP	(3G)2F
68000.788	4.5	4P	(3H)4G
60956.781	3.5	4P	(3H)4G
96239.200	4.5	4SP	(3G)2H
69606.552	3.5	4P	(3G)2F
66377.283	3.5	4P	(3G)4F
61726.077	3.5	4P	(3F)4D
62083.108	4.5	4P	(3H)2G
66463.528	5.5	4P	(3G)4H
66012.750	4.5	4P	(3G)4F
63948.790	4.5	4P	(3F)4G
60402.342	2.5	4P	(3F)4D
68000.788	4.5	4P	(3G)2H
96217.420	3.5	4SP	(5P)4D
66589.008	4.5	4P	(3G)4H
61512.634	4.5	4P	(3H)4I
62244.520	1.5	4P	(3F)4F
60989.444	4.5	4P	(3H)4H
96239.200	4.5	4SP	(3G)2H
61527.616	6.5	4P	(3H)4I
60887.598	5.5	4P	(3H)4H
92453.460	0.5	4P	(3F)4D
42334.822	2.5	4P	(5D)6F
47389.779	1.5	4P	(5D)4F
67516.332	5.5	4P	(3G)2H
62945.038	3.5	4P	(3F)4D
47626.076	0.5	4P	(5D)4D
62151.561	2.5	4P	(3F)4F
62158.110	4.5	4P	(3F)4F
61041.748	2.5	4P	(3H)4G
68000.788	4.5	4P	(3G)2H
63876.317	5.5	4P	(3F)4G
92426.980	4.5	4SP	(5G)4F
64831.943	4.5	4P	(3F)2G
62171.615	3.5	4P	(3F)6P
62065.521	3.5	4P	(3F)4F
61587.214	5.5	4P	(3H)4I
60625.449	5.5	4P	(3H)4G
62322.431	3.5	4P	(3H)2G
62083.108	4.5	4P	(3H)4G
65109.679	3.5	4P	(3F)2G
60956.781	3.5	4P	(3F)4G
92358.610	1.5	4SP	(5G)4F
60807.230	4.5	4P	(3H)4G

265.5042	-2.321	104064.670	6.5	4D	(3H)4I
265.5081	-3.268	99824.045	2.5	5S	(3F)4F
265.5151	-3.400	71985.493	3.5	D7	(5D)2F
265.5361	-2.203	79889.048	2.5	5S	(5D)4F
265.5693	0.297	108630.429	5.5	5S	(11)2I
265.5936	-4.919	54275.637	2.5	D5S2	(7S)4F
265.6006	-4.347	99688.337	3.5	5S	(3F)4F
265.6018	-9.384	23317.633	2.5	D5S2	(7S)6S
265.6045	-1.642	105155.090	4.5	4D	(3F)4G
265.6087	-0.561	98445.400	4.5	5S	(3H)4G
265.6308	-4.484	57441.065	2.5	D5S2	(7S)4F
265.6795	-3.637	57411.065	2.5	D5S2	(7S)4P
265.7171	-0.517	99688.337	3.5	5S	(3F)4F
265.7426	-1.639	31483.176	3.5	D6S	(3G)4D
265.7848	-2.475	58666.258	3.5	D6S	(1G)2G
265.7918	-1.437	30388.542	4.5	D6S	(3G)2G
265.7926	-0.724	98568.912	3.5	5S	(3H)4H
265.8241	-3.832	58631.531	4.5	D6S	(1G)2G
265.8343	-2.818	103983.510	3.5	5S	(3G)2G
265.8357	-1.253	99332.102	4.5	5S	(3H)2D
265.8414	-3.780	99688.337	3.5	5S	(3F)4F
265.8703	-0.939	104064.670	6.5	4D	(3H)4I
265.9055	-1.671	103608.909	4.5	5S	(3G)2G
265.9065	-2.477	26352.766	4.5	D6S	(3H)2H
265.9350	-3.108	125180.370	3.5	D6S	(3F)4F
265.9588	-3.877	105589.420	5.5	4D	(3F)4H
265.9782	-3.859	58631.531	4.5	D6S	(1G)2G
266.0141	-0.914	99093.452	5.5	5S	(3H)2H
266.0232	-0.828	98924.045	2.5	5S	(3F)4F
266.0236	-0.474	98568.912	3.5	5S	(3H)4H
266.0698	-2.544	58666.258	3.5	D6S	(1G)2G
266.1202	-1.468	99093.452	5.5	5S	(3H)4I
266.1771	-0.292	98445.400	4.5	5S	(3H)4H
266.2243	-2.468	54902.315	1.5	D6S	(3F)2P
266.2276	-2.336	79885.493	2.5	5S	(5D)4D
266.2437	-4.367	84938.180	1.5	4D	(5D)6G
266.2521	-2.398	105063.550	5.5	4D	(3F)4G
266.2538	-1.268	100492.020	3.5	5S	(3F)2F
266.2556	-0.645	85172.809	0.5	4D	(5D)4D
266.3262	-0.578	99688.337	3.5	5S	(3F)4F
266.3727	-0.916	99688.337	3.5	5S	(3F)4F
266.3944	-0.429	98568.912	3.5	5S	(3H)4H
266.4192	-3.214	105524.461	4.5	4D	(3F)4H
266.4201	-1.605	26352.766	4.5	D6S	(3H)2H
266.4257	-0.491	54904.222	3.5	D6S	(3F)2F
266.4664	-0.350	27314.922	3.5	D6S	(3F)2F
266.4686	-2.501	99688.337	3.5	5S	(3F)4F
266.5326	-1.270	99573.225	4.5	5S	(3F)4F
266.5430	-2.505	99093.452	5.5	5S	(3H)2H
266.5541	0.026	98130.131	6.5	5S	(3H)4H
266.5759	-1.892	99824.045	2.5	5S	(3F)4F
266.6577	-1.343	99573.225	4.5	5S	(3F)4F
266.6637	0.245	27620.412	2.5	D6S	(3F)2F
266.6683	-0.396	98445.400	4.5	5S	(3H)4G
266.6721	-1.149	54870.528	2.5	D6S	(3F)2F
266.6786	-0.271	98294.401	5.5	5S	(3H)4G

61512.634	4.5	4P	(3H)4I
92089.260	3.5	4SP	(5G)4H
98196.000	1.5	4SP	(5D)4F
92089.260	3.5	4SP	(5G)4H
62689.880	2.5	4P	(3F)2F
65109.679	3.5	4P	(3F)2G
69606.552	3.5	4P	(3G)2F
92695.374	2.5	4P	(3F)2D
62125.600	1.5	4P	(3P)2D
92695.374	2.5	4P	(3P)2D
62962.205	1.5	4P	(3P)4D
47389.779	1.5	4P	(5D)4F
63948.790	4.5	4P	(3F)4G
92647.510	1.5	4P	(3F)4D
42401.302	1.5	4P	(5D)6F
61093.413	2.5	4P	(3P)2D
62049.025	2.5	4SP	(7S)6P
63559.488	0.5	4P	(3F)4D
62151.561	2.5	4P	(3F)4H
66411.686	6.5	4P	(3G)4H
68000.788	4.5	4P	(3G)2H
60807.230	4.5	4P	(3H)4G
62065.521	3.5	4P	(3F)4F
62065.521	3.5	4P	(3F)4F
98196.000	1.5	4SP	(5D)4F
64831.943	4.5	4P	(3F)2G
75915.215	2.5	4P	(3D)2F
98196.000	1.5	4SP	(5D)4F
92647.510	1.5	4P	(3F)4D
61587.214	5.5	4P	(3H)4I
46967.444	2.5	4P	(5D)4F
92018.729	2.5	4SP	(5D)6F
66012.750	4.5	4P	(3G)4F
42439.822	0.5	4P	(5D)6F
91902.380	2.5	4SP	(5S)4P
92018.729	2.5	4SP	(5D)6F
65109.679	3.5	4P	(3F)2G
92602.703	3.5	4P	(3F)2G
96356.960	3.5	4SP	(3G)2F
61041.748	2.5	4P	(3H)4G
46967.444	2.5	4P	(5D)4F
69102.380	2.5	4SP	(5S)4P
66463.528	5.5	4P	(3G)4H
66411.686	6.5	4P	(3G)4H
63876.317	5.5	4P	(3F)4G
75915.215	2.5	4P	(3D)2F
92602.703	3.5	4P	(3F)2G
96356.960	3.5	4SP	(3G)2F
64040.886	3.5	4P	(3F)4G
65931.334	3.5	4P	(3F)4G
63465.109	1.5	4P	(3F)4D
62244.520	1.5	4P	(3F)4F
62151.561	2.5	4P	(3F)4F
60625.449	5.5	4P	(3H)4G
95079.640	3.5	4P	(3F)2F
70986.677	6.5	4P	(11)2K
47389.779	1.5	4P	(5D)4F

99332.102	4.5	5S	(3H)2H		
54275.637	2.5	D5S2	(7S)4G		
60384.370	0.5	D5S2	(7S)4D		
54283.220	3.5	D5S2	(7S)4G		
100492.020	3.5	5S	(3F)2F		
27314.922	3.5	D6S	(3F)2F		
31811.822	2.5	D7	(5D)2F		
54902.315	1.5	D6S	(3P)2P		
99918.569	1.5	5S	(3F)4F		
54904.222	3.5	D6S	(3F)2F		
100749.810	2.5	5S	(3F)2F		
85172.809	0.5	4D	(5D)4D		
26170.181	5.5	D6S	(3H)2H		
64634.348	2.5	D6S	(3F)2F		
80177.975	1.5	5S	(5D)4D		
23317.633	2.5	D5S2	(7S)6S		
99824.045	2.5	5S	(3F)4F		
105288.847	6.5	4D	(3F)4H		
25787.598	1.5	D6S	(3P)2P		
99918.569	1.5	5S	(3F)4F		
104174.270	5.5	4D	(3H)4I		
105763.270	5.5	4D	(3F)2H		
98568.912	3.5	5S	(3H)4H		
99824.045	2.5	5S	(3F)4F		
264.7620	-1.097	90844.033	1.5	D5S2	(7S)4D
102584.963	5.5	5S	(3G)4G		
38164.194	2.5	D6S	(1D)2D		
60445.275	2.5	D5S2	(7S)4D		
54902.315	1.5	D6S	(3P)2P		
99332.102	4.5	5S	(3H)2H		
84710.685	3.5	4D	(5D)6G		
54275.637	2.5	D5S2	(7S)4G		
103751.660	5.5	4D	(3H)4H		
80177.975	1.5	5S	(5D)4D		
31364.440	1.5	D6S	(3D)4D		
54283.220	3.5	D5S2	(7S)4G		
102842.119	4.5	5S	(3G)4G		
54870.528	2.5	D6S	(3F)2F		
58631.531	4.5	D6S	(1G)2G		
23317.633	2.5	D5S2	(7S)6S		
46967.444	2.5	4P	(5D)4F		
31387.948	2.5	D6S	(3D)4D		
104174.270	5.5	4D	(3H)4I		
10419.710	7.5	4D	(3H)2K		
26170.181	5.5	D6S	(3H)2H		
38214.507	1.5	D6S	(1D)2D		
54904.222	3.5	D6S	(3F)2F		
99824.045	2.5	D6S	(3F)4F		
58666.258	3.5	D6S	(1G)2G		
26352.766	4.5	D6S	(3H)2H		
103608.909	4.5	5S	(3G)2G		
25787.598	1.5	D6S	(3P)2P		
99918.569	1.5	5S	(3F)4F		
99824.045					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
266.6914	-2.391	25787.598	1.5	D6S (3P)2P	63272.976	2.5	4P (3F)4D	268.0917	-3.484	57411.065	2.5	D5S2 (7S)4P
266.6998	-2.532	79885.493	2.5	5S (5D)4D	42401.302	1.5	4P (5D)6F	268.0991	-0.664	98445.400	4.5	5S (3B)4H
266.7219	-0.287	84870.863	2.5	4D (5D)4D	47389.779	1.5	4P (5D)4P	268.1022	-2.304	103751.660	5.5	4D (3H)4H
266.7402	-1.508	102842.119	4.5	5S (3G)4G	65363.595	5.5	4P (3H)2H	268.1043	-0.601	49100.976	0.5	D6S (3P)4P
266.7522	-1.432	100749.810	2.5	5S (3F)2F	63272.976	2.5	4P (3F)4D	268.1187	-2.754	102842.119	4.5	5S (3G)4G
266.7617	-1.455	98568.912	3.5	5S (3H)4H	61093.413	2.5	4P (3P)2D	268.1269	-2.439	100749.810	2.5	5S (3F)2F
266.8247	-0.842	103878.340	7.5	4D (3H)4I	66411.686	6.5	4P (3G)4H	268.1323	-4.212	50187.813	3.5	D6S (3F)4F
266.8508	-3.443	22939.358	2.5	D6S (3F)4F	60402.342	2.5	4P (3P)4P	268.1345	-2.995	54870.528	2.5	D5S2 (7S)4P
266.8635	-1.910	103983.510	3.5	5S (3G)2G	66522.304	2.5	4P (3G)4F	268.2037	-2.191	57411.065	2.5	D5S2 (7S)4P
266.8766	-2.147	54870.528	2.5	D6S (3F)2F	92329.890	2.5	4S (5G)4F	268.2274	-3.622	74498.057	1.5	4P (3D)2D
266.8940	-2.066	84424.370	1.5	4D (5D)6P	46967.444	2.5	4P (5D)4P	268.2507	-0.302	54904.222	3.5	D6S (3F)2F
266.8946	-0.182	98294.401	5.5	5S (3H)4H	60837.569	6.5	4P (3H)4H	268.2573	-0.604	99332.102	4.5	5S (3H)2H
266.8985	-2.099	54902.315	1.5	D6S (3P)2P	92358.610	1.5	4S (5G)4F	268.2897	-0.909	102842.119	4.5	5S (3G)4G
266.9003	-0.186	98445.400	4.5	5S (3H)4H	60989.444	4.5	4P (3H)4H	268.3000	-0.321	49506.934	1.5	D6S (3P)4P
266.9033	-0.619	49100.976	0.5	D6S (3P)4P	86543.974	1.5	4P (3H)4D	268.3500	-4.054	22409.852	0.5	D6S (3P)4P
267.0379	-1.720	38164.194	2.5	D6S (1D)2D	75600.931	3.5	4P (3D)2F	268.3709	-0.649	99573.225	4.5	5S (3F)4F
267.0885	-2.869	58631.521	4.5	D6S (1G)2G	96862.060	5.5	4S (3G)2H	268.4305	-1.003	98130.131	6.5	5S (3H)4H
267.1033	-4.877	50142.786	2.5	D6S (3F)4F	87572.431	2.5	4S (5G)6F	268.4371	-4.420	54904.222	3.5	D6S (3F)2F
267.1393	-0.653	85048.602	1.5	4D (5D)4D	92329.890	2.5	4S (5G)4F	268.4066	-2.628	57493.321	1.5	D5S2 (7S)4P
267.1922	-0.126	99573.225	4.5	5S (3F)4F	62158.110	4.5	4P (3F)4F	268.4754	0.257	30764.485	3.5	D6S (3G)2G
267.2113	-1.986	54902.315	1.5	D6S (3P)2P	92314.758	0.5	5P (5D)4P	268.5091	-1.320	103608.909	4.5	5S (3G)2G
267.2139	-0.210	98568.912	3.5	5S (3H)4H	61156.835	3.5	4P (3H)4H	268.5303	-3.072	9918.569	1.5	5S (3F)4F
267.2150	-0.067	54870.528	2.5	D6S (3F)2F	92282.460	3.5	4S (5G)4F	268.5405	-2.406	79885.493	2.5	5S (5D)4D
267.2310	-2.576	26055.423	2.5	D6S (3G)4G	63465.109	1.5	4P (3F)4D	268.5831	-0.172	102584.963	5.5	5S (3G)4G
267.2516	0.010	98294.401	5.5	5S (3H)4H	60887.598	5.5	4P (3H)4H	268.5999	-2.329	100492.020	3.5	5S (3F)2F
267.2666	-3.922	32909.905	5.5	D6S (1I)2I	70314.604	4.5	4P (3G)2G	268.6021	-2.065	54870.528	2.5	D6S (3F)2F
267.2887	-3.845	99573.225	4.5	5S (3F)4F	92274.120	2.5	4P (3P)4P	268.6107	-1.875	26055.423	2.5	D6S (3G)4G
267.3141	-4.896	105398.852	5.5	4D (3F)4H	62171.615	3.5	4S (7S)6P	268.6218	0.365	108648.695	6.5	5S (1I)2I
267.3369	-2.456	50142.786	2.5	D6S (3F)4F	87537.652	3.5	4S (5G)6F	268.6388	-2.038	27620.412	2.5	D6S (3F)2F
267.3902	-2.378	57493.321	1.5	D5S2 (7S)4P	94880.740	0.5	4S (5P)4P	268.6467	-0.711	54904.222	3.5	D6S (3F)2F
267.4509	-1.633	54904.222	3.5	D6S (3F)2F	92274.120	2.5	4S (5G)4F	268.6844	-3.496	57493.321	1.5	D5S2 (7S)4P
267.5019	-1.698	54902.315	1.5	D6S (3P)2P	92282.460	3.5	4S (5G)4F	268.7198	-2.203	79439.467	3.5	5S (5D)4D
267.5156	-3.577	54904.222	3.5	D6S (3F)2F	60402.342	2.5	4P (3P)4P	268.7969	-2.515	57493.321	1.5	D5S2 (7S)4P
267.5441	-0.786	99688.337	3.5	5S (3F)4F	62322.431	3.5	4P (3P)2G	268.8187	-0.535	103600.440	6.5	4D (3H)4H
267.5902	-2.086	84326.912	2.5	D6S (3F)2F	46967.444	2.5	4P (5D)4P	268.8455	-3.531	54904.222	3.5	D6S (3F)2F
267.6222	-3.731	54870.528	2.5	D6S (3F)2F	92225.538	1.5	5P (5D)4P	268.8564	-3.762	50157.452	4.5	D6S (3F)4F
267.6426	-3.640	57411.065	2.5	D5S2 (7S)4P	94763.219	3.5	4S (5D)6P	268.9210	-0.933	25787.598	1.5	D6S (3P)2P
267.6592	-4.422	50187.813	3.5	D6S (3F)4F	87537.652	3.5	4S (5G)6F	269.0217	-2.085	57578.484	0.5	D5S2 (7S)4P
267.6882	-0.225	54870.528	2.5	D6S (3F)2F	92216.320	1.5	4P (3P)2D	269.0232	-4.860	99332.102	4.5	5S (3H)2H
267.7300	-0.538	103751.660	5.5	4D (3H)4H	66411.686	6.5	4P (3G)4H	269.0680	-2.804	105155.090	4.5	4D (3F)4G
267.8056	-4.708	58666.258	3.5	D6S (1G)2G	95995.690	2.5	4S (5P)4P	269.1275	-0.401	102842.119	4.5	5S (3G)4G
267.8151	-2.646	57411.065	2.5	D5S2 (7S)4P	94739.170	1.5	4S (5P)4P	269.1737	-1.534	269.1737	-1.534	
267.8399	-2.539	79439.467	3.5	5S (5D)4D	42114.818	4.5	4P (5D)6F	269.1940	-3.112	103600.440	6.5	4D (3H)4H
267.8501	-2.619	54902.315	1.5	D6S (3P)2P	92225.538	1.5	5P (5D)4P	269.1985	-4.892	54063.459	0.5	D6S (3P)2P
267.9141	-4.424	50157.452	4.5	D6S (3F)4F	87471.765	4.5	4S (5G)6F	269.2139	-2.035	99824.045	2.5	5S (3F)4F
267.9163	-1.637	54902.315	1.5	D6S (3P)2P	92216.320	1.5	4P (3P)2D	269.2601	0.285	30388.542	4.5	D6S (3G)2G
267.9299	-4.287	84938.180	1.5	4D (5D)6G	47626.076	0.5	4P (5D)4P	269.2834	-4.297	7955.299	3.5	D6S (5D)4D
267.9366	-2.694	103983.510	3.5	5S (3G)2G	66672.334	3.5	4P (3G)4H	269.3857	-1.707	27314.922	3.5	D6S (3F)2F
267.9813	-0.531	98294.401	5.5	5S (3H)4H	60989.444	4.5	4P (3H)4H	269.4281	-2.799	79439.467	3.5	5S (5D)4D
268.0007	-2.877	57578.484	0.5	D5S2 (7S)4P	94880.740	0.5	4S (5P)4P	269.5381	-2.327	9918.569	1.5	5S (3F)4F
268.0233	-0.930	84266.566	3.5	4D (5D)6P	46967.444	2.5	4P (5D)4P	269.5729	-4.948	23317.633	2.5	D5S2 (7S)6S
268.0704	0.090	98130.131	6.5	5S (3H)4H	60837.569	6.5	4P (3H)4H	269.7326	-0.983	105063.550	5.5	4D (3F)4G
268.0791	-2.278	25981.629	3.5	D6S (3G)4G	63272.976	2.5	4P (3F)4D	269.7328	-1.033	36126.387	1.5	D6S (3D)2D
268.0872	-1.867	105291.010	3.5	4D (3F)4G	68000.788	4.5	4P (3G)2H	269.7462	-0.495	36126.387	1.5	D6S (3D)2D

WL(NM)	LOGGFC	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGFC	EVEN E	J	LABEL
269.7727	-1.216	33466.463	4.5	D6S (1G)2G	70523.706	3.5	4P (3G)2G	271.6697	-1.317	7955.299	3.5	D6S (5D)4D
269.7798	-0.006	98568.912	3.5	5S (3H)4H	61512.634	4.5	4P (3H)4I	271.6712	-3.036	84424.370	1.5	4D (5D)6P
269.8876	-3.187	25787.598	1.5	D6S (3P)2P	62829.075	0.5	4P (3P)4D	271.6962	-3.231	54275.637	2.5	D5S2 (7S)4G
269.8943	-1.188	49506.934	1.5	D6S (3G)4G	86547.490	2.5	4P (1F)2F	271.7511	-3.744	1872.567	4.5	D7 (5D)4F
269.8974	-4.654	103118.400	1.5	D6S (5D)4D	66078.269	2.5	4P (3G)4G	271.7522	-2.259	54283.220	3.5	D5S2 (7S)4G
269.9199	-0.539	49506.934	1.5	D6S (3P)4P	86543.974	1.5	4P (3P)4D	271.7556	-2.047	50142.786	2.5	D6S (3F)4F
269.9377	-1.926	84424.370	1.5	4D (5D)6P	47389.779	1.5	4P (5D)4P	271.7878	0.361	98130.131	6.5	5S (3H)4H
269.9808	-2.136	102584.963	5.5	5S (3G)4G	65556.280	4.5	4P (3H)2H	271.7933	-1.466	98394.401	5.5	5S (3H)4I
270.0250	-2.238	83990.063	1.5	4D (5D)6D	46967.444	2.5	4P (5D)4P	271.7972	-1.538	79439.467	3.5	5S (5D)4D
270.0263	-2.176	33501.253	3.5	D6S (1G)2G	60523.706	3.5	4P (3G)2G	271.8358	-2.351	54063.459	0.5	D6S (3P)2P
270.0449	-2.393	103608.909	4.5	5S (3G)2G	66589.008	4.5	4P (3G)4H	271.8609	-2.684	54275.637	2.5	D5S2 (7S)4G
270.1146	-0.135	99093.452	5.5	5S (3H)2H	62083.108	4.5	4P (3H)2G	271.8618	-1.963	27314.922	3.5	D6S (3F)2F
270.1195	-0.596	99332.102	4.5	5S (3H)2H	62322.431	3.5	4P (3H)2G	271.8640	0.044	50157.452	4.5	D6S (3F)4F
270.1542	-0.094	102584.963	5.5	5S (3G)4G	65580.041	5.5	4P (3G)4G	271.9041	0.106	98294.401	5.5	5S (3H)4H
270.2014	-3.419	99688.337	3.5	5S (3F)4F	62689.880	2.5	4P (3P)4D	271.9304	-0.851	36252.918	2.5	D6S (3D)2D
270.3144	-3.723	103983.510	3.5	5S (3G)2G	67000.517	2.5	4P (3F)2D	272.0572	-2.656	83713.536	3.5	4D (5D)6D
270.3990	-0.029	27314.922	3.5	D6S (3F)2F	64286.345	3.5	4P (3F)2F	272.0779	-0.580	90688.337	3.5	5S (3F)4F
270.4576	-1.816	25981.629	3.5	D6S (3G)4G	62945.038	3.5	4P (3F)4D	272.0887	-0.974	50187.813	3.5	D6S (3F)4F
270.5092	-3.152	99918.569	1.5	5S (3F)4F	62962.205	1.5	4P (3P)4D	272.0891	-2.789	84131.563	0.5	4D (5D)6D
270.5674	-4.761	54902.315	1.5	D5S2 (7S)4D	91850.722	0.5	4SP (5D)6F	272.1814	-0.928	25428.784	5.5	D6S (3G)4G
270.6151	-4.833	60384.370	0.5	D5S2 (7S)4D	97326.270	1.5	4SP (3P)2P	272.2063	-0.534	27314.922	3.5	D6S (3F)2F
270.6335	-2.555	80177.975	1.5	5S (5D)4D	43238.586	2.5	4P (5D)6P	272.2130	-3.163	80346.016	0.5	5S (5D)4D
270.6500	-1.994	84326.912	2.5	4D (5D)6P	47389.779	1.5	4P (5D)4P	272.2201	-3.849	22939.358	2.5	D6S (3F)4F
270.6541	-3.488	103608.909	4.5	5S (3G)2G	66672.334	3.5	4P (3G)4H	272.2555	-2.532	98445.400	4.5	5S (3H)4H
270.6569	-0.208	36252.918	2.5	D6S (3P)2D	73189.110	1.5	4P (3D)2P	272.2622	-2.097	57493.321	1.5	D5S2 (7S)4G
270.6631	-1.079	99093.452	5.5	5S (3H)2H	62158.110	4.5	4P (3F)4F	272.2741	-0.102	100749.810	2.5	D6S (3P)4F
270.6785	-2.241	54275.637	2.5	D5S2 (7S)4G	91208.887	1.5	5P (5D)4F	272.3327	-2.624	100749.810	2.5	D6S (3P)4F
270.6820	-0.765	98445.400	4.5	5S (3H)4H	61512.634	4.5	4P (3H)4I	272.3377	-2.976	25981.629	3.5	D6S (3G)4G
270.7133	-0.405	36126.387	1.5	D6S (3D)2D	73054.881	2.5	4P (1G)2F	272.3455	-0.455	98294.401	5.5	5S (3H)4H
270.8418	-0.396	99573.225	4.5	5S (3F)4F	62662.244	5.5	4P (3G)4I	272.4608	-3.495	102394.718	1.5	6S (5D)4D
270.8432	-0.390	102842.119	4.5	5S (3G)4G	65931.334	3.5	4P (3G)4D	272.4688	-0.749	8391.938	2.5	D6S (5D)4D
270.8726	-2.630	26055.423	2.5	D6S (3G)4G	62962.205	1.5	4P (3P)4D	272.5097	-1.936	47674.721	1.5	D7 (5D)2D
270.9056	-0.574	25787.598	1.5	D6S (3P)2P	62689.880	2.5	4P (3P)4D	272.6228	0.084	99332.102	4.5	5S (3H)2H
270.9381	-2.589	8391.938	1.5	D6S (5D)4D	45289.801	1.5	4P (5D)4F	272.6520	-1.444	27620.412	2.5	D6S (3G)2F
270.9931	-2.242	36252.918	2.5	D6S (3D)2D	73143.288	3.5	4P (1G)2G	272.6783	-0.648	100749.810	2.5	5S (3F)2F
270.9987	-2.797	26055.423	2.5	D6S (3G)4G	62945.038	3.5	4P (3F)4D	272.6799	-4.969	57411.065	2.5	D5S2 (7S)4G
271.0037	-0.009	102584.963	5.5	5S (3G)4G	6596.038	4.5	4P (3G)4G	272.6799	-4.969	57411.065	2.5	D5S2 (7S)4G
271.0308	-4.703	60441.033	1.5	D5S2 (7S)4D	97326.270	1.5	4SP (3P)2P	272.7383	-0.832	25428.784	5.5	D6S (3G)4G
271.0555	-1.315	49506.934	1.5	D6S (3P)4P	86388.820	0.5	4P (3P)4D	272.7479	-3.713	103265.694	0.5	6S (5D)4D
271.0620	-3.110	60445.275	2.5	D5S2 (7S)4D	97326.270	1.5	4SP (3P)2P	272.7539	-0.366	8391.938	2.5	D6S (5D)4D
271.0766	-1.437	99824.045	2.5	5S (3F)4F	62945.038	3.5	4P (3F)4D	272.7936	-1.951	79885.493	2.5	5S (5D)4D
271.1356	-4.098	102802.312	2.5	6S (5D)4D	65931.334	3.5	4P (3G)4G	272.8033	-1.635	99918.569	1.5	5S (3F)4F
271.1842	-0.335	25428.784	5.5	D6S (3G)4G	62293.164	6.5	4P (3H)2I	272.8863	-4.296	26055.423	2.5	D6S (3G)4G
271.2029	-2.588	99824.045	2.5	5S (3F)4F	62962.205	1.5	4P (3P)4D	272.8907	-0.869	27314.922	3.5	D6S (3F)2F
271.2298	-0.060	98445.400	4.5	5S (3H)4H	61587.214	5.5	4P (3H)4I	272.9034	-4.379	23031.300	1.5	D6S (3F)4F
271.2391	-0.997	25805.328	4.5	D6S (3G)4G	62662.244	5.5	4P (3H)2I	272.9330	-0.241	99573.225	4.5	5S (3F)4F
271.3037	-1.911	33466.463	4.5	D6S (1G)2G	70314.604	4.5	4P (3G)2G	272.9438	-2.532	26932.748	0.5	D6S (3P)2P
271.3278	-3.169	83812.316	2.5	4D (5D)6D	46967.444	2.5	4P (5D)4P	272.9531	-4.071	54275.637	2.5	D5S2 (7S)4G
271.3428	-1.730	98568.912	3.5	5S (3H)4H	61726.077	3.5	4P (3P)4D	272.9583	-0.925	50142.786	2.5	D6S (3F)4F
271.3640	-0.135	108804.667	3.5	5S (3D)4D	44784.710	2.5	4P (5D)4P	272.9699	-4.455	54275.637	2.5	D5S2 (7S)4G
271.4413	-0.416	7955.299	3.5	D6S (5D)4D	49674.761	2.5	4P (3D)4P	273.0096	-3.088	54275.637	2.5	D5S2 (7S)4G
271.4420	-0.113	102842.119	4.5	5S (3G)4G	66012.750	4.5	4P (3G)4F	273.0734	-0.687	8680.454	1.5	D6S (5D)4D
271.5601	-1.719	33501.253	3.5	D6S (1G)2G	70314.604	4.5	4P (3F)2G	273.1244	-0.266	98130.131	6.5	5S (3H)4H
271.6218	-0.259	27620.412	2.5	D6S (3F)2D	64425.408	2.5	4P (3G)2F	273.1411	-4.221	83990.063	1.5	4D (5D)6D
271.6441	-1.748	36252.918	2.5	D6S (3D)2D	73054.881	2.5	4P (1G)2F	273.1723	-3.572	103118.400	1.5	6S (5D)4D
271.6537	-1.950	57411.065	2.5	D5S2 (7S)4P	94211.739	2.5	4SP (5P)4P	273.2009	-1.114	26352.766	4.5	D6S (3H)2H
271.6565	0.281	99093.452	5.5	5S (3H)2H	62293.164	6.5	4P (3G)2I	273.2446	-3.353	1872.567	4.5	D7 (5D)4F
271.6657	-1.299	104315.370	6.5	4D (3H)2K	67516.332	5.5	4P (3G)2H	273.2943	-0.181	50187.813	3.5	D6S (3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
273.3142	-4.980	57411.065	2.5	D582(7S)4F	93988.170	2.5	4SP(5G)4G	274.6351	-0.351	50142.786	2.5	D6S (3F)4F
273.3195	-3.965	57411.065	2.5	D582(7S)4F	93987.457	3.5	4SP(5G)6D	274.6484	0.157	8680.434	1.5	D6S (5D)4D
273.3507	-0.412	102584.963	5.5	5S (3G)4G	66012.750	4.5	4P (3D)4F	274.6519	-0.685	36252.918	2.5	D6S (3D)2D
273.3939	-3.069	54063.459	0.5	D6S (3P)2F	90629.902	1.5	4P (3P)4S	274.6578	-2.245	36126.387	1.5	D6S (3D)2D
273.3960	-1.908	108804.667	3.5	5S (3D)4D	72238.513	2.5	4P (3D)4F	274.6644	-4.499	98568.912	3.5	5S (3H)4H
273.4644	-2.618	80177.975	1.5	5S (3D)4D	43620.957	1.5	4P (5D)6F	274.6982	0.039	8391.938	2.5	D6S (5D)4D
273.4813	-0.714	50212.826	2.5	D6S (3P)4F	86767.577	2.5	4P (3P)4D	274.7019	-3.754	38214.507	1.5	D6S (1D)2D
273.5089	-0.619	99824.045	2.5	5S (3F)4F	63272.976	2.5	4P (3F)4D	274.7122	-0.353	78725.790	1.5	5S (5D)6D
273.5293	-2.513	104064.670	6.5	4D (3H)4I	67516.332	5.5	4P (3G)2H	274.7417	-1.255	99332.102	4.5	5S (3H)2H
273.5675	-1.680	100492.020	3.5	5S (3F)2F	63948.790	4.5	4P (3F)4G	274.7424	-0.441	108648.695	6.5	5S (1H)2I
273.5699	-1.431	98130.131	6.5	5S (3H)4H	61587.214	5.5	4P (3H)4I	274.7643	-3.247	73395.930	2.5	D5S2(7S)4F
273.6063	-2.770	57493.321	1.5	D582(7S)4F	94031.378	0.5	4SP(5D)6D	274.7802	-3.395	102394.718	3.5	6S (5D)4D
273.6489	-2.623	26932.748	0.5	D6S (3P)2F	63465.109	1.5	4P (3F)4D	274.7960	-2.661	98445.400	4.5	5S (3H)4H
273.6966	-0.559	8680.454	1.5	D6S (5D)4D	45206.450	0.5	4P (5D)4D	274.7962	-1.551	58666.258	3.5	D6S (1G)2G
273.7424	-4.513	98568.912	3.5	5S (3H)4H	62049.022	2.5	4SP(7S)6F	274.8057	0.132	102842.119	4.5	5S (3G)4G
273.7595	-4.585	31483.176	3.5	D6S (3D)4D	68000.788	4.5	4P (3G)2H	274.8804	-3.155	108630.429	5.5	5S (1H)2I
273.7633	-2.022	25805.328	4.5	D6S (3G)4G	62322.443	3.5	4P (3H)2G	274.8965	-3.743	36252.918	2.5	D6S (3D)2D
273.8392	-2.149	54273.641	4.5	D582(7S)4G	90780.621	3.5	5P (5D)4F	274.8987	-3.948	25805.328	4.5	D6S (3G)4G
273.8485	-3.964	103118.400	1.5	6S (5D)4D	66612.656	1.5	4P (3G)4F	274.9161	-3.935	83990.063	1.5	4D (5D)6D
273.8504	-3.780	84131.563	0.5	4D (5D)6D	47626.076	0.5	4P (5D)4F	274.9162	-2.555	25787.598	1.5	D6S (3P)2F
273.8542	-4.669	54275.637	2.5	D582(7S)4G	90780.621	3.5	5P (5D)4F	274.9181	-0.300	8680.454	1.5	D6S (5D)4D
273.8661	-1.152	98568.912	3.5	5S (3H)4H	62065.521	3.5	4P (3F)4F	274.9289	-1.545	98445.400	4.5	5S (3H)4H
273.8913	-0.788	108630.429	5.5	5S (1H)2I	72130.390	4.5	4P (1G)2H	274.9221	-3.537	54275.637	2.5	D5S2(7S)4G
273.9111	-3.120	54283.220	3.5	D582(7S)4G	90780.621	3.5	5P (5D)4F	274.9321	0.319	8391.938	2.5	D6S (5D)4D
273.9433	-1.728	36126.387	1.5	D6S (3D)2D	72619.490	2.5	4P (3D)4D	274.9486	-0.592	8846.768	0.5	D6S (5D)4D
273.9499	-2.960	83459.670	1.5	4D (5D)6F	46967.444	2.5	4P (5D)4D	274.9486	-1.028	50187.813	3.5	D6S (3F)4F
273.9511	-1.132	26170.181	5.5	D6S (3H)2H	62662.244	5.5	4P (3H)2I	274.9532	-0.622	99918.569	1.5	5S (3F)4F
273.9548	0.317	7955.299	3.5	D6S (5D)4D	44446.878	3.5	4P (5D)4D	274.9543	-0.479	99824.045	2.5	5S (3F)4D
273.9981	-1.488	98568.912	3.5	5S (3H)4H	62083.108	4.5	4P (3H)2G	274.9795	-2.596	54283.220	3.5	D5S2(7S)4G
274.1050	-3.442	50075.910	1.5	D6S (3F)4F	86547.490	2.5	4P (1F)2F	275.0008	-1.454	25805.328	4.5	D6S (3G)4G
274.1314	-0.980	50075.910	1.5	D6S (3F)4F	86543.974	1.5	4P (3P)4D	275.0444	-3.074	57493.321	1.5	D5S2(7S)4F
274.1394	-0.425	27620.412	2.5	D6S (3F)2F	64087.418	2.5	4P (3F)4G	275.0535	-4.733	23317.633	2.5	D5S2(7S)6S
274.1557	-0.312	102842.119	4.5	5S (3G)4G	66377.283	3.5	4P (3G)4F	275.0915	-1.909	25981.629	3.5	D6S (3G)4G
274.1660	-2.084	100749.810	2.5	5S (3F)2F	64286.345	3.5	4P (3F)2F	275.0919	-2.452	83308.194	2.5	4D (5D)6F
274.1666	-4.597	102394.718	3.5	6S (5D)4D	65931.334	3.5	4P (3G)4G	275.0978	-3.850	50142.786	2.5	D6S (3F)4F
274.2152	-1.929	25787.598	1.5	D6S (3P)2F	62244.520	1.5	4P (3F)4F	275.1127	-0.859	25787.598	1.5	D6S (3P)2P
274.2413	-0.810	99918.569	1.5	5S (3F)4F	63465.109	1.5	4P (3F)4D	275.1153	-4.276	102030.912	3.5	6S (5D)6D
274.2455	-3.281	57578.484	0.5	D582(7S)4F	72352.024	3.5	4P (3D)4F	275.1363	-4.276	57493.321	1.5	D5S2(7S)4F
274.2474	-0.441	108804.667	3.5	5S (3D)4D	72352.024	3.5	4P (3D)4F	275.1379	-1.608	50212.826	2.5	D6S (3P)4F
274.2588	-0.806	100492.020	3.5	5S (3F)2F	64040.886	3.5	4P (3F)4D	275.1440	-2.607	38164.194	2.5	D6S (1D)2D
274.2815	-1.148	58631.531	4.5	D6S (1G)2G	95079.640	3.5	4P (3F)2F	275.1646	-1.659	50212.826	2.5	D6S (3P)4F
274.3197	-0.058	8846.768	0.5	D6S (5D)4D	45289.801	1.5	4P (3F)2F	275.2089	-0.912	50157.452	4.5	D6S (3F)4F
274.3223	-0.718	78843.992	0.5	5S (5D)6D	42401.302	1.5	4P (5D)6F	275.2150	-0.502	78725.790	1.5	5S (5D)6D
274.3226	-4.765	38164.194	2.5	D6S (1D)2D	74606.841	2.5	4P (3D)2D	275.2157	-0.459	100749.810	2.5	5S (3F)2F
274.4088	-1.411	99093.452	5.5	5S (3H)2H	62662.244	5.5	4P (3H)2I	275.2436	-3.191	48039.090	2.5	D7 (5D)2D
274.4233	-3.458	57411.065	2.5	D582(7S)4F	93840.340	1.5	4SP(5D)6D	275.2652	-3.248	54275.637	2.5	D5S2(7S)4G
274.4265	-3.985	2430.097	3.5	D7 (5D)4F	38858.958	2.5	4P (5D)6D	275.3028	-0.593	50075.910	1.5	D6S (3F)4F
274.4553	-3.418	102802.312	2.5	6S (5D)4D	66377.283	3.5	4P (3G)4F	275.3288	0.473	26352.766	4.5	D6S (3H)2H
274.4741	-2.868	83812.316	2.5	4D (5D)6D	47389.779	1.5	4P (5D)4F	275.3755	-1.242	36126.387	1.5	D6S (3D)2D
274.4897	-1.660	72620.412	2.5	D6S (3F)2F	64040.886	3.5	4P (3F)4G	275.4202	-4.130	54902.315	1.5	D6S (3P)2P
274.4939	-2.601	57411.065	2.5	D582(7S)4F	93830.979	2.5	4SP(5D)6D	275.4391	-2.152	50187.813	3.5	D6S (3F)4F
274.5132	-1.492	98568.912	3.5	5S (3H)4H	62151.561	2.5	4P (3F)4D	275.4489	-1.301	98445.400	4.5	5S (5D)6D
274.5282	-0.361	96888.337	3.5	5S (3F)4F	63272.976	2.5	4P (3F)4D	275.4972	-1.301	98445.400	4.5	5S (3H)4H
274.5431	-3.148	58666.258	3.5	D6S (1G)2G	95079.640	3.5	4P (3F)2F	275.5072	-1.267	78725.790	1.5	5S (5D)6D
274.5626	-1.652	98568.912	3.5	5S (3H)4H	62158.110	4.5	4P (3F)4F	275.5237	-3.717	30388.542	4.5	D6S (3G)2G
274.6086	-1.790	50142.786	2.5	D6S (3F)4F	86547.490	2.5	4P (1F)2F	275.5256	-2.576	38214.507	1.5	D6S (1D)2D
274.6093	-2.005	100492.020	3.5	5S (3F)2F	64087.418	2.5	4P (3F)4G	275.5525	-3.792	102802.312	2.5	6S (5D)4D
274.6126	-0.653	78843.992	0.5	5S (5D)6D	42439.822	0.5	4P (5D)6F	275.5694	-4.561	25805.328	4.5	D6S (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
275.5737	0.425	7955.299	3.5	D6S (5D)4D	276.9355	-0.398	25428.784	5.5	D6S (3G)4G
275.5997	-4.092	98445.400	4.5	5S (3H)4H	276.9562	-2.450	26055.423	2.5	D6S (3G)4G
275.6160	-1.392	36252.918	2.5	D6S (3D)2D	276.9835	-0.003	103608.909	4.5	5S (3G)2G
275.6291	-1.142	50212.826	2.5	D6S (3P)4P	277.0292	-4.572	60270.339	3.5	D5S2(7S)4D
275.6512	-1.098	26055.423	2.5	D6S (3G)4G	277.0294	-1.785	36126.387	1.5	D6S (3D)2D
275.6700	-3.228	79885.493	2.5	5S (5D)4D	277.0485	-4.704	103600.440	6.5	4D (3H)4H
275.6904	-2.588	57378.484	0.5	D5S2(7S)4P	277.0502	-2.462	25981.629	3.5	D6S (3G)4G
275.6937	-3.568	25787.998	1.5	D6S (3P)2P	277.0505	-1.358	25428.784	5.5	D6S (3G)4G
275.7030	-1.601	25805.328	4.5	D6S (3G)4G	277.1063	-2.887	57411.065	2.5	D5S2(7S)4P
275.7569	-1.158	102842.119	4.5	5S (3H)4H	277.1186	-1.646	30388.542	4.5	D6S (3G)2G
275.8073	-1.415	98568.912	3.5	5S (3G)4G	277.1555	-1.854	26055.423	2.5	D6S (3G)4G
275.8869	-3.220	30764.485	3.5	D6S (3G)2G	277.1577	-2.529	83459.670	1.5	4D (5D)6F
275.9332	-3.533	2430.097	3.5	D7 (5D)4F	277.1769	-4.736	25981.629	3.5	D6S (3G)4G
276.0687	-3.521	54275.637	2.5	D5S2(7S)4G	277.1829	-1.918	100492.020	3.5	5S (3F)2F
276.0754	-1.000	98294.401	5.5	5S (3H)4H	277.2726	-1.406	8391.938	2.5	D6S (5D)4D
276.1182	-0.299	100492.020	3.5	5S (3F)2F	277.3675	-4.739	36126.387	1.5	D6S (3D)2D
276.1265	-2.544	54283.220	3.5	D5S2(7S)4G	277.4307	-3.759	58666.258	3.5	D6S (1G)2G
276.1548	-2.703	79439.467	3.5	5S (5D)4D	277.4688	-0.944	26932.748	0.5	D6S (3P)2P
276.1579	-3.413	30388.542	4.5	D6S (3G)2G	277.4732	-4.578	2430.097	3.5	D7 (5D)4F
276.1813	-0.873	8846.768	0.5	D6S (5D)4D	277.4878	-2.094	54273.770	4.5	D5S2(7S)4G
276.2094	-3.306	47674.721	1.5	D7 (5D)2D	277.5011	-3.442	105127.640	2.5	5D (5D)4D
276.2333	-0.437	78525.407	2.5	5S (5D)6D	277.5032	-4.644	54275.637	2.5	D5S2(7S)4G
276.2379	-4.144	25981.629	3.5	D6S (3G)4G	277.5338	-3.918	2837.950	2.5	D7 (5D)4F
276.2404	-4.969	102802.312	2.5	6S (5D)4D	277.5506	-4.938	58666.258	3.5	D6S (1G)2G
276.2447	-2.189	26055.423	2.5	D6S (3G)4G	277.5558	-4.146	102030.912	3.5	6S (5D)6D
276.2582	-2.467	25787.998	1.5	D6S (3P)2P	277.5614	-3.803	102394.718	3.5	6S (5D)4D
276.2746	-1.762	108804.667	3.5	5S (3D)4D	277.5616	-3.073	54283.220	3.5	D5S2(7S)4G
276.3410	-1.843	25981.629	3.5	D6S (3G)4G	277.6179	-1.508	26055.423	2.5	D6S (3G)4G
276.3504	-4.401	2837.950	2.5	D7 (5D)4F	277.6252	-4.775	60270.339	3.5	D5S2(7S)4D
276.3640	-2.725	104174.270	5.5	4D (3H)4I	277.6824	-2.615	31999.048	3.5	D7 (5D)2F
276.3655	0.243	102584.963	5.5	5S (3G)4G	277.6863	-1.176	98294.401	5.5	5S (3H)4H
276.3922	-2.671	102842.119	4.5	5S (3G)4G	277.6908	-0.466	78237.685	3.5	5S (5D)6D
276.3979	-2.375	83136.487	3.5	4D (5D)6F	277.7224	-4.879	54902.315	1.5	D6S (3P)2P
276.4000	-3.122	83558.540	0.5	4D (5D)6F	277.7270	-2.646	102584.963	5.5	5S (3G)4G
276.4790	-1.727	25428.784	5.5	D6S (3G)4G	277.7452	-5.131	26055.423	2.5	D6S (3G)4G
276.5103	-1.808	54232.195	5.5	D5S2(7S)4G	277.7586	-4.666	103265.694	0.5	6S (5D)4D
276.5128	0.025	108804.667	3.5	5S (3D)4D	277.7587	-5.075	3117.461	1.5	D7 (5D)4F
276.5221	-1.047	108804.667	3.5	5S (3D)4D	277.7827	-1.870	30388.542	4.5	D6S (3G)2G
276.5494	-1.488	33501.253	3.5	D6S (1G)2G	277.7890	-1.154	26170.181	5.5	D6S (3H)2H
276.6193	-1.489	33466.463	4.5	D6S (1G)2G	277.8070	-2.798	36232.918	2.5	D6S (3D)2D
276.6484	-1.943	98294.401	5.5	5S (3H)4H	277.8280	-3.047	105589.420	3.5	4D (3F)4H
276.7408	-3.046	54273.641	4.5	D5S2(7S)4G	277.8292	-0.055	103983.510	3.5	5S (3G)2G
276.7417	-1.327	78525.407	2.5	5S (5D)6D	277.8540	-3.342	108630.429	5.5	5S (11)21
276.7503	0.488	26170.181	5.5	D6S (3H)2H	277.8540	-1.744	54232.195	5.5	D5S2(7S)4G
276.7504	-1.031	98445.400	4.5	5S (3H)4H	277.9300	-0.053	26332.766	4.5	D6S (3H)2H
276.7622	-1.896	102584.963	5.5	5S (3G)4G	277.9796	-4.897	105065.630	3.5	5D (5D)6G
276.7894	-4.701	103118.400	1.5	6S (5D)4D	277.9909	-0.777	37227.326	0.5	D6S (1S)2S
276.8024	-5.992	26055.423	2.5	D6S (3G)4G	278.0051	-1.025	37227.326	0.5	D6S (1S)2S
276.8142	-3.941	54283.220	3.5	D5S2(7S)4G	278.0198	-3.182	27314.922	3.5	D6S (3F)2F
276.8277	-2.978	54273.641	4.5	D5S2(7S)4G	278.0292	-4.534	102334.112	2.5	6S (5D)6D
276.8335	-2.004	36126.387	1.5	D6S (3D)2D	278.1046	-2.011	60270.339	3.5	D5S2(7S)4D
276.8859	-3.025	33501.253	3.5	D6S (1G)2G	278.1677	-3.209	105589.420	3.5	4D (3F)4H
276.8935	-0.922	8680.454	1.5	D6S (5D)4D	278.1745	-3.002	54902.315	1.5	D6S (3F)4G
276.9012	-4.512	54283.220	3.5	D5S2(7S)4G	278.1814	-2.211	94273.641	4.5	D5S2(7S)4G
276.9152	-1.099	25981.629	3.5	D6S (3G)4G	278.2178	-2.685	83558.540	0.5	4D (5D)6F
276.9334	-0.993	36252.918	2.5	D6S (3D)2D	278.2508	-4.209	105230.290	0.5	5D (5D)4D
					278.3085	-2.036	25805.328	4.5	D6S (3G)4G
					278.3181	-3.627	26055.423	2.5	D6S (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
278.3266	-2.507	83308.194	2.5	4D (5D)6F	47389.779	1.5	4P (5D)4P	279.7196	-0.082	99688.337	3.5	5S (3F)4F
278.3305	-3.488	105524.461	4.5	4D (3F)4H	69606.552	3.5	4P (3G)2F	279.7425	-2.463	99824.045	2.5	5S (3F)4F
278.3404	-1.599	36126.387	1.5	D6S (3D)2D	72043.026	1.5	4P (3D)4P	279.7917	-1.375	26352.766	4.5	D6S (3H)2H
278.3447	-1.857	36252.918	2.5	D6S (3D)2D	72168.998	1.5	4P (3D)4F	279.8133	-3.019	54902.315	1.5	D6S (3P)4S
278.3474	-2.250	100749.810	2.5	5S (3F)2F	64834.073	1.5	4P (3P)2P	279.8274	-4.516	104828.160	2.5	5D (5D)6D
278.3691	0.105	26170.181	5.5	D6S (3H)2H	62083.108	4.5	4P (3B)2G	279.8308	-3.112	60270.339	3.5	D5S2(7S)4P
278.3768	-4.659	60445.275	2.5	D5S2(7S)4D	96356.960	3.5	4P (3G)2F	279.8818	-2.896	57411.065	2.5	D5S2(7S)4P
278.3786	-2.181	31364.440	1.5	D6S (3D)4D	67273.826	1.5	4P (3F)2D	279.9270	-0.861	108804.667	3.5	5S (3D)4D
278.4085	-2.829	30764.485	3.5	D6S (3G)2G	66672.334	3.5	4P (3G)4H	279.9370	-1.860	36252.766	4.5	D6S (3H)2H
278.4277	-1.981	31368.450	0.5	D6S (3D)4D	42334.822	2.5	4P (3F)2D	279.9370	-1.660	26352.766	4.5	D6S (3H)2H
278.4472	-1.673	78237.685	3.5	5S (5D)6D	42334.822	2.5	4P (3F)2D	279.9370	-1.660	26352.766	4.5	D6S (3H)2H
278.4536	-3.242	57493.321	1.5	D5S2(7S)4P	93395.360	2.5	4P (3F)4F	280.0358	-0.062	99573.225	4.5	5S (3F)4F
278.4979	-2.844	26932.748	0.5	D6S (3P)2P	62829.075	0.5	4P (3F)4D	280.0358	-0.062	99573.225	4.5	5S (3F)4F
278.5024	-4.529	3117.461	1.5	D7 (5D)4F	39013.206	1.5	4P (5D)6D	280.0924	-2.359	54232.195	5.5	D5S2(7S)4G
278.5192	0.222	77861.625	4.5	5S (5D)6D	41968.046	5.5	4P (5D)6F	280.1515	-3.196	103291.010	3.5	4D (3F)4G
278.5790	-3.091	31387.948	2.5	D6S (3D)4D	67273.826	1.5	4P (3F)2D	280.2599	-2.343	26055.423	2.5	D6S (3G)4G
278.6321	-3.226	98568.912	3.5	5S (3H)4H	62889.880	2.5	4P (3P)4D	280.3328	-0.903	108804.667	3.5	5S (3F)4F
278.6835	-4.990	102394.718	3.5	6S (5D)4D	65522.304	2.5	4P (3G)4F	280.3430	0.071	100492.020	3.5	5S (3F)2G
278.7242	-0.974	78525.407	2.5	5S (5D)6D	42658.224	3.5	4P (5D)6P	280.3937	-4.625	102030.912	3.5	6S (5D)6D
278.8990	-3.950	27620.412	2.5	D6S (3F)2F	63465.109	1.5	4P (3F)4D	280.4021	-1.459	27620.412	2.5	D6S (3F)2F
278.9000	-4.682	103118.400	1.5	6S (5D)4D	71964.710	2.5	4P (3D)4P	280.4181	-3.654	54273.641	4.5	D5S2(7S)4G
278.9486	-3.816	36126.387	1.5	D6S (3D)2D	62293.164	6.5	4P (3H)2I	280.4423	-2.540	99688.337	3.5	5S (3F)4F
278.9592	-2.531	98130.131	6.5	5S (3H)4H	93328.480	1.5	4P (3F)4F	280.4999	-0.021	100749.810	2.5	5S (3F)2D
278.9733	-4.589	57493.321	1.5	D5S2(7S)4P	9067.347	4.5	5P (5D)6F	280.5318	-1.945	31364.440	1.5	D6S (3D)2D
278.9733	-2.232	54232.195	5.5	D5S2(7S)4G	96279.490	2.5	4P (3G)2F	280.5627	-4.011	98294.401	5.5	5S (3H)4H
278.9806	-4.321	60445.275	2.5	D5S2(7S)4D	47626.076	0.5	4P (5D)4P	280.6223	-3.448	77861.625	4.5	5S (5D)6F
278.9855	-2.801	83459.670	1.5	4D (5D)6F	64087.418	2.5	4P (3F)4G	280.6235	-3.448	77861.625	4.5	5S (5D)6F
279.0045	-0.575	99918.569	1.5	5S (3F)4F	83868.450	2.5	4P (1F)2D	280.6235	-3.448	77861.625	4.5	5S (5D)6F
279.0184	-1.973	48039.090	2.5	D7 (5D)2D	66589.008	4.5	4P (3G)4H	280.6253	-3.617	30388.542	4.5	D6S (3G)2G
279.0471	-3.485	105127.770	2.5	5D (5D)4D	69302.090	1.5	4P (3G)4H	280.6253	-3.617	30388.542	4.5	D6S (3G)2G
279.0561	-1.807	30764.485	3.5	D6S (3G)2G	66589.008	4.5	4P (3G)4H	280.6842	-2.785	54273.641	4.5	D5S2(7S)4G
279.0750	-4.535	2837.950	2.5	D7 (5D)4F	38660.043	3.5	4P (5D)6D	280.7000	-2.892	54273.641	4.5	D5S2(7S)4G
279.1003	-5.451	26352.766	4.5	D6S (3H)2H	62171.615	3.5	4P (7S)6P	280.7152	-4.377	30764.485	3.5	D6S (3G)2G
279.1552	-4.972	102394.112	2.5	6S (5D)6D	66522.304	2.5	4P (3G)4F	280.7152	-4.377	30764.485	3.5	D6S (3G)2G
279.1647	-2.898	54232.195	5.5	D5S2(7S)4G	90042.779	4.5	4P (3F)4G	280.7170	-2.273	31387.948	2.5	D6S (3D)2D
279.1878	-3.594	10544.180	2.5	4D (3F)4G	69606.552	3.5	4P (3G)2F	280.7597	-1.905	54283.220	3.5	D5S2(7S)4G
279.2056	-3.755	26352.766	4.5	D6S (3H)2H	62158.110	4.5	4P (3F)4F	280.7922	-3.376	104705.420	3.5	5D (5D)6D
279.2214	-3.755	105230.290	0.5	5D (5D)4D	69426.980	0.5	4P (5S)4P	280.8089	-2.459	99688.337	3.5	5S (3F)4F
279.2333	-4.588	102802.312	2.5	6S (5D)4D	67000.517	2.5	4P (3F)2D	280.9783	-0.662	78237.685	3.5	5S (5D)6D
279.2964	-3.397	54273.641	4.5	D5S2(7S)4G	90067.347	4.5	5P (3F)4G	281.1268	-2.412	25428.784	5.5	D6S (3G)4G
279.3245	-1.296	36252.918	2.5	D6S (3D)2D	72043.026	1.5	4P (3D)4P	281.1268	-2.412	25428.784	5.5	D6S (3G)4G
279.3368	-0.408	108804.667	3.5	5S (3D)4D	73016.147	3.5	4P (1G)2F	281.1451	-4.182	58631.531	4.5	D6S (1G)2G
279.3711	-4.830	54283.220	3.5	D5S2(7S)4G	90667.347	4.5	5P (5D)6F	281.1743	-3.041	60441.033	1.5	D5S2(7S)4D
279.3787	-0.341	99824.045	2.5	5S (3F)4F	60404.886	3.5	4P (3F)4G	281.2078	-2.473	103155.090	4.5	D5S2(7S)4D
279.3787	-1.550	98445.400	4.5	5S (3H)4H	62662.244	5.5	4P (3H)2I	281.2227	-3.868	60441.033	1.5	D5S2(7S)4D
279.3886	-0.640	25805.328	4.5	D6S (3G)4G	61587.214	5.5	4P (3H)4I	281.2494	-1.920	23787.598	1.5	D6S (3P)2P
279.4647	-3.054	60445.275	2.5	D5S2(7S)4D	96127.420	3.5	4P (5F)4D	281.2682	-3.141	30388.542	4.5	D6S (3G)2G
279.4748	-3.270	104873.230	3.5	5D (5D)4D	69102.380	2.5	4P (5S)4P	281.2994	-2.276	108630.429	5.5	5S (1I)2I
279.4882	-1.791	54273.641	4.5	D5S2(7S)4G	90042.779	4.5	4P (3F)4G	281.3085	-0.847	99824.045	2.5	5S (3F)4F
279.5307	-3.161	105414.180	2.5	4D (3F)4G	69650.484	2.5	4P (3F)4G	281.3509	-2.586	99573.225	4.5	5S (3F)4F
279.5631	-2.775	54283.220	3.5	D5S2(7S)4G	90042.779	4.5	4P (3F)4G	281.3615	-1.058	25981.629	3.5	D6S (3G)4G
279.5767	-2.124	30764.485	3.5	D6S (3G)2G	66522.304	2.5	4P (3G)4F	281.4006	-4.548	104828.160	2.5	5D (5D)6D
279.6310	-3.648	103751.660	5.5	4D (3H)4H	68000.788	4.5	4P (3G)2H	281.4697	-3.259	31483.176	3.5	D6S (3D)6D
279.6379	-4.049	57578.484	0.5	D5S2(7S)4P	93328.480	1.5	4P (3F)4G	281.4726	-4.559	58631.531	4.5	D6S (1G)2G
279.6395	-2.428	108804.667	3.5	5S (3D)4D	73054.881	2.5	4P (1G)2F	281.5050	-4.806	73393.745	4.5	D5S2(7S)4F
279.6628	-0.790	77861.625	4.5	5S (5D)6D	42114.818	4.5	4P (5D)6F	281.5050	-4.806	73393.745	4.5	D5S2(7S)4F
279.6813	-2.497	25981.629	3.5	D6S (3G)4G	61726.077	3.5	4P (3F)4D	281.6043	-2.965	98445.400	4.5	5S (3H)4H
279.7044	-4.931	3117.461	1.5	D7 (5D)4F	38858.958	2.5	4P (5D)6D	281.6615	-0.864	99918.569	1.5	5S (3F)4F
								281.7014	-3.422	57411.065	2.5	D5S2(7S)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
281.7088	-0.860	78725.790	1.5	5S (5D)6D	43238.586	2.5	4P (5D)6P	283.5336	-2.550	49100.976	0.5	D6S (3F)2F
281.7481	-4.568	58666.258	3.5	D6S (1G)2G	94148.510	4.5	4SP(5G)4G	283.5711	-0.975	25787.598	1.5	D6S (3F)2P
281.8038	-3.112	73393.745	4.5	D5S2(7S)4F	108868.980	4.5	4SP(3G)4H	283.6189	-1.986	30764.440	3.5	D6S (3G)2G
281.8622	-3.180	60384.370	0.5	D5S2(7S)4D	95858.050	1.5	4SP(3F)4D	283.6189	-1.465	31364.440	1.5	D6S (3D)4D
281.8622	-2.183	98130.131	6.5	5S (3H)4H	62662.244	5.5	4P (3F)2D	283.6231	-3.230	25787.598	1.5	D6S (3F)2P
281.9090	-4.173	31811.822	2.5	D7 (5D)2F	67273.826	1.5	4P (3F)2D	283.6512	-1.202	31368.450	0.5	D6S (3D)4D
281.9343	-2.359	25428.784	5.5	D6S (3G)4G	60887.598	5.5	4P (3H)4H	283.7064	-3.686	73393.745	4.5	D5S2(7S)4F
281.9584	-0.645	99332.102	4.5	5S (3H)2H	63876.317	5.5	4P (3F)4G	283.7136	-3.971	57411.065	2.5	D5S2(7S)4F
281.9909	-1.987	54275.637	2.5	D5S2(7S)4G	89727.342	2.5	4P (3F)4G	283.7240	-1.706	73395.930	2.5	D5S2(7S)4F
282.0150	-2.354	105763.270	5.5	4D (3F)2H	70314.604	4.5	4P (3F)2G	283.7297	-1.580	26352.766	4.5	D6S (3H)2H
282.0512	-2.897	54283.220	3.5	D5S2(7S)4G	89727.342	2.5	4P (3F)4G	283.7388	-2.360	73395.930	2.5	D5S2(7S)4F
282.0740	-3.312	79885.493	2.5	D6S (1G)2G	94073.240	3.5	4SP(5G)4G	283.7734	-4.831	8391.938	2.5	D6S (5D)4D
282.0950	-1.702	60441.033	1.5	D6S (3H)2H	44446.878	3.5	4P (3H)4I	283.8082	-2.396	31387.948	2.5	D6S (3D)4D
282.2669	-2.454	26170.181	5.5	D6S (3H)2H	61587.214	5.5	4P (3H)4I	283.8217	-0.755	78843.992	0.5	5S (5D)6D
282.2671	-2.829	60441.033	1.5	D5S2(7S)4F	95858.050	1.5	4SP(3F)4D	283.8692	-2.279	99093.452	5.5	5S (3H)2H
282.2786	-2.050	73393.745	4.5	D5S2(7S)4F	108809.310	5.5	4SP(3G)4H	283.9513	0.117	79439.467	3.5	5S (5D)4D
282.3007	-3.715	73492.215	3.5	D5S2(7S)4F	108906.640	3.5	4SP(3G)4H	283.9800	-0.179	77861.625	4.5	5S (5D)6D
282.3277	-1.244	25428.784	5.5	D6S (3G)4G	60837.569	6.5	4P (3H)4H	283.9882	-2.089	37221.326	0.5	D6S (1S)2S
282.3397	-4.941	54063.459	0.5	D6S (3F)2P	89471.365	0.5	5P (5D)6D	284.0343	-0.790	25428.784	5.5	D6S (3G)4G
282.3471	-4.393	58666.258	3.5	D6S (1G)2G	94073.240	3.5	4SP(5G)4G	284.0651	-0.404	26932.748	0.5	D6S (3F)2P
282.3559	-3.094	57493.321	1.5	D5S2(7S)4F	92899.200	2.5	4P (3F)4D	284.0749	-3.189	57411.065	2.5	D5S2(7S)4F
282.3869	-1.337	99688.337	3.5	5S (3F)4F	64286.345	3.5	4P (3F)2F	284.0760	-0.695	30388.542	4.5	D6S (3G)2G
282.4136	-1.569	99824.045	2.5	5S (3F)4F	64425.408	2.5	4P (3F)2F	284.0949	-4.967	31483.176	3.5	D6S (3G)2G
282.4569	-1.226	80177.975	1.5	5S (5D)4D	44784.761	2.5	4P (3D)4D	284.0986	-2.497	31811.822	2.5	D7 (5D)2F
282.5299	-3.689	73395.930	2.5	D5S2(7S)4F	108780.000	1.5	270DD	284.1356	-3.745	25805.328	4.5	D6S (3G)4G
282.5358	-3.078	60384.370	0.5	D5S2(7S)4D	95767.700	0.5	4SP(3F)4D	284.1946	-2.284	284.1946	-2.284	284.1946
282.5360	-4.459	99332.102	4.5	5S (3H)2H	63948.790	4.5	4SP(3F)4D	284.2076	-2.136	25981.629	3.5	D6S (3G)4G
282.5437	-2.150	100492.020	3.5	5S (3F)2F	65109.679	3.5	4P (3F)2G	284.2680	-2.233	30388.542	4.5	D6S (3G)2G
282.5748	-1.482	25428.784	5.5	D6S (3G)4G	60807.230	4.5	4P (3H)4G	284.2751	-3.551	30764.440	3.5	D6S (3G)2G
282.5882	-2.395	73492.215	3.5	D5S2(7S)4F	108868.980	4.5	4SP(3G)4H	284.3316	-1.572	26352.766	4.5	D6S (3H)2H
282.6027	-1.456	27314.922	3.5	D6S (3F)2F	62689.880	2.5	4P (3F)4D	284.3478	-1.048	31364.440	1.5	D6S (3D)4D
282.6158	-2.292	26352.766	4.5	D6S (3H)2H	61726.077	3.5	4P (3F)4D	284.3775	-3.182	57493.321	1.5	D5S2(7S)4F
282.7427	-1.458	26170.181	5.5	D6S (3H)2H	61527.616	6.5	4P (3H)4I	284.3997	-1.473	29803.328	4.5	D6S (3H)2H
282.7902	-2.073	25805.328	4.5	D6S (3G)4G	61156.835	3.5	4P (3H)4I	284.4546	-1.617	59093.452	5.5	5S (3G)4G
282.8626	-0.823	26170.181	5.5	D6S (3H)2H	61512.634	4.5	4P (3H)4I	284.4708	-2.648	73637.340	1.5	D5S2(7S)4F
282.8679	-1.400	27620.412	2.5	D6S (3F)2F	62962.205	1.5	4P (3F)4D	284.5040	-2.081	54904.222	3.5	D6S (3F)2F
282.9890	-3.468	60441.033	1.5	D5S2(7S)4D	95767.700	0.5	4SP(3F)4D	284.5164	-4.459	73492.215	3.5	D5S2(7S)4F
282.9961	-2.128	102842.119	4.5	5S (3G)4G	67516.332	5.5	4P (3G)2H	284.5040	-2.081	54904.222	3.5	D6S (3F)2F
283.0054	-3.469	27620.412	2.5	D6S (3F)2F	62945.038	3.5	4P (3F)4D	284.5381	-1.274	31387.948	2.5	D6S (3D)4D
283.0271	-3.261	58666.258	3.5	D6S (1G)2G	93988.170	2.5	4SP(5G)4G	284.5425	-0.624	80177.975	1.5	5S (5D)4D
283.0923	-2.241	30764.440	3.5	D6S (3G)2G	66078.269	2.5	4P (3G)4G	284.5596	0.008	79885.493	2.5	5S (5D)4D
283.1084	-1.604	26932.748	0.5	D6S (3F)2P	62244.520	1.5	4P (3G)4F	284.7210	-1.909	25981.629	3.5	D6S (3G)4G
283.1427	-4.628	30388.542	4.5	D6S (3G)2G	65696.038	4.5	4P (3G)4G	284.7186	-2.789	99918.569	1.5	5S (3F)4F
283.1562	-0.048	25787.598	1.5	D6S (3F)2P	61093.413	2.5	4P (3F)2D	284.7693	-3.493	31483.176	3.5	D6S (3D)4D
283.1880	-1.182	80346.016	0.5	5S (5D)4D	45044.168	1.5	4P (3D)4D	284.7774	-0.688	78725.790	1.5	5S (5D)6D
283.2250	-1.950	37227.326	0.5	D6S (1S)2S	72524.566	1.5	4P (3D)4D	284.8051	-0.824	26055.423	2.5	D6S (3G)4G
283.2354	-4.632	98568.912	3.5	5S (3H)4H	63272.976	2.5	4P (3F)4D	284.8106	-0.288	79885.493	2.5	5S (5D)4D
283.2733	-1.297	99332.102	4.5	5S (3H)4H	64040.886	3.5	4P (3F)4G	284.8320	-0.157	80177.975	1.5	5S (5D)4D
283.3081	-1.765	99573.225	4.5	5S (3F)4F	64286.345	3.5	4P (3F)2F	284.8906	-1.283	32909.905	5.5	D6S (1I)2I
283.3086	-0.557	78525.407	2.5	5S (5D)6D	43238.586	2.5	4P (5D)6P	284.8967	-1.459	73393.745	4.5	D5S2(7S)4F
283.3281	-4.520	31387.948	2.5	D6S (3D)4D	66672.334	3.5	4P (3G)4H	284.9424	-4.176	99918.569	1.5	5S (3F)4F
283.3370	-3.617	7955.299	3.5	D6S (5D)4D	43238.586	2.5	4P (3G)6P	284.9445	-3.463	105398.852	5.5	4D (3F)4G
283.3749	-4.933	104380.940	3.5	5D (5D)6F	69102.380	2.5	4SP(5S)4P	284.9605	-1.039	25805.328	4.5	D6S (3G)4H
283.3847	-3.158	26055.423	2.5	D6S (3G)4G	61332.764	1.5	4P (3F)4P	284.9924	-1.748	73492.215	3.5	D5S2(7S)4F
283.4050	-3.255	105589.420	3.5	4D (3F)4H	70314.604	4.5	4P (3G)2G	285.0646	-3.068	27620.412	2.5	D6S (3F)2F
283.4746	-3.743	48039.090	2.5	D7 (5D)2D	83305.251	3.5	4P (1F)2G	285.0681	-3.475	57578.484	0.5	D5S2(7S)4F
283.5005	-1.721	99688.337	3.5	5S (3F)4F	66516.332	5.5	4P (3F)2F	285.0714	-1.056	102584.903	5.5	5S (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
285.0951	-3.917	105589.420	3.5	4D (3F)4H	70523.706	3.5	4P (3G)2G	286.8038	-2.908	54870.528	2.5	D6S (3F)2F
285.1406	-2.041	25981.629	3.5	D6S (3G)4G	61041.748	2.5	4P (3H)4G	286.8048	-5.406	27314.922	3.5	D6S (3F)2F
285.1723	-0.374	80346.016	0.5	5S (5D)4D	45289.801	1.5	4P (5D)4F	286.8072	-2.201	99688.337	3.5	5S (3F)4F
285.1954	-1.607	108804.667	3.5	5S (3D)4D	73751.282	4.5	4P (1I)2H	286.8095	-2.942	58631.531	4.5	D6S (1G)2G
285.2574	-1.205	99332.102	4.5	5S (3H)2H	64286.364	3.5	4P (3F)2F	286.8347	-2.957	58631.531	4.5	D6S (1G)2G
285.2620	-0.004	108648.695	6.5	5S (1I)2I	73603.500	5.5	4P (1I)2H	286.8362	-2.619	49506.934	1.5	D6S (3P)4P
285.2865	-2.402	26932.748	0.5	D6S (3F)2P	61974.933	1.5	4SP(7S)6P	286.8474	-1.835	38164.194	2.5	D6S (1D)2D
285.3114	-2.403	31483.176	3.5	D6S (3D)4D	66522.304	2.5	4P (3G)4G	286.8838	-2.103	8391.938	2.5	D6S (5D)4D
285.3207	-2.677	26055.423	2.5	D6S (3G)4G	61093.413	2.5	4P (3P)2D	286.8973	-2.565	73393.745	4.5	D5S2(7S)4F
285.4108	-1.395	108630.429	5.5	5S (1I)2I	73603.500	5.5	4P (1I)2H	286.9152	-3.011	73395.930	2.5	D5S2(7S)4F
285.4272	-2.725	38164.194	2.5	D6S (1D)2D	73189.110	1.5	4P (3D)2P	286.9312	-3.397	27314.922	3.5	D6S (3F)2F
285.4685	-0.905	54870.528	2.5	D6S (3F)2F	98990.373	3.5	4P (3F)4F	286.9312	-1.846	102842.119	4.5	5S (3G)4G
285.5666	-0.905	25981.629	3.5	D6S (3G)4G	60989.444	4.5	4P (3H)4H	286.9313	-0.689	79885.493	2.5	5D (5D)4D
285.5691	-0.958	27314.922	3.5	D6S (3F)2F	62322.431	3.5	4P (3H)2G	286.9391	-2.121	38214.507	1.5	D6S (1D)2D
285.6149	-1.090	25805.328	4.5	D6S (3G)4G	60807.230	4.5	4P (3H)4G	286.9391	-2.121	38214.507	1.5	D6S (1D)2D
285.6242	-3.905	105524.461	4.5	4D (3F)4H	70523.706	3.5	4P (3G)2G	286.9699	-2.265	57493.321	1.5	D5S2(7S)4F
285.6377	-0.486	78237.685	3.5	5S (5D)6D	43238.586	2.5	4P (5D)6P	286.9755	-3.374	57493.321	1.5	D5S2(7S)4F
285.6909	-0.010	79439.467	3.5	5S (5D)4D	44446.878	3.5	4P (5D)4P	287.0055	-3.374	57493.321	1.5	D5S2(7S)4F
285.6964	-1.759	73637.340	1.5	D5S2(7S)4F	108629.250	2.5	4SP(3G)4G	287.0608	-2.448	287.0608	2.5	D6S (3G)4G
285.7122	-3.586	99824.045	2.5	5S (3F)4F	64834.073	1.5	4P (3P)2P	287.0952	-2.414	57493.321	1.5	D5S2(7S)4F
285.7174	-0.860	31387.948	2.5	D6S (3D)4D	66377.283	3.5	4P (3G)4G	287.1131	-1.312	26170.181	5.5	D6S (3H)2H
285.7420	-1.383	26055.423	2.5	D6S (3G)4G	61041.748	2.5	4P (3H)4G	287.1196	-1.697	100749.810	2.5	5S (3F)2F
285.7434	-3.341	54904.222	3.5	D6S (3F)2F	98990.373	3.5	4P (3F)4F	287.1208	-4.152	58666.258	3.5	D6S (1G)2G
285.7475	-2.354	37227.326	0.5	D6S (1S)2S	72121.978	0.5	4P (3D)4P	287.1060	-1.570	25805.328	4.5	D6S (3G)4G
285.8011	-1.992	38164.194	2.5	D6S (1D)2D	73143.282	3.5	4P (1G)2G	287.1526	-2.604	57411.065	2.5	D5S2(7S)4F
285.8111	-3.395	73395.930	2.5	D5S2(7S)4F	108373.800	3.5	260DD	287.1952	-4.061	60270.339	3.5	D5S2(7S)4F
285.8231	-4.313	105291.010	3.5	4D (3F)4G	70314.604	4.5	4P (3G)2G	287.2257	-1.058	79885.493	2.5	5S (5D)4D
285.8283	-4.608	73395.930	2.5	D5S2(7S)4F	108371.700	1.5	250DD	287.2384	-0.632	26352.766	4.5	D6S (3H)2H
285.8333	-1.232	25981.629	3.5	D6S (3G)4G	60956.781	3.5	4P (3H)4G	287.2651	-3.456	31811.822	2.5	D7 (5D)2F
285.8341	-0.029	30388.542	4.5	D6S (3G)2G	65363.595	5.5	4P (3D)2H	287.3052	-2.189	100492.020	3.5	5S (3F)2F
285.8378	-2.451	38214.507	1.5	D6S (1D)2D	73189.110	1.5	4P (3H)2H	287.3398	-0.189	30764.485	3.5	D6S (3G)2G
285.8528	-1.911	38214.507	1.5	D6S (1D)2D	73187.280	0.5	4P (3D)2P	287.4306	-2.535	57493.321	1.5	D5S2(7S)4F
285.8630	-0.882	80177.975	1.5	5S (5D)4D	45206.450	0.5	4P (5D)4D	287.4362	-3.712	57578.464	0.5	D5S2(7S)4F
285.9561	-3.729	57493.321	1.5	D5S2(7S)4F	92453.460	0.5	4P (3F)4D	287.4654	-4.481	105763.270	5.5	4D (3F)2H
286.0591	-4.125	57411.065	2.5	D5S2(7S)4F	92358.610	1.5	4SP(5G)4F	287.4852	-3.369	8846.768	0.5	D6S (5D)4D
286.1072	-3.034	37227.326	0.5	D6S (1S)2S	72168.998	1.5	4P (3D)4F	287.5349	-0.816	27314.922	3.5	D6S (3F)2F
286.1168	-2.927	8680.454	1.5	D6S (5D)4D	43620.957	1.5	4P (5D)6P	287.5422	-2.191	105291.010	3.5	4D (3F)4G
286.1209	-0.713	54063.459	0.5	D6S (5P)2P	89003.460	0.5	4P (3P)2S	287.5804	-0.998	27314.922	3.5	D6S (3F)2F
286.1558	-1.939	100492.020	3.5	5S (3F)2F	65556.280	4.5	4P (3H)2H	287.6941	-2.630	105063.550	5.5	4D (3F)4G
286.1638	-4.908	73393.745	4.5	D5S2(7S)4F	38458.981	4.5	4P (5D)6D	287.7103	-2.904	73492.215	3.5	D5S2(7S)4F
286.1901	-1.446	30764.485	3.5	D6S (3G)2G	65696.038	4.5	4P (3G)4G	287.7576	-2.610	99573.225	4.5	5S (3F)4F
286.2944	-3.165	57411.065	2.5	D5S2(7S)4F	92329.890	2.5	4SP(5G)4F	287.7991	-3.496	57578.464	0.5	D5S2(7S)4F
286.4123	-0.927	78525.407	2.5	5S (5D)6D	43620.957	1.5	4P (5D)6P	287.8123	-2.427	73395.930	2.5	D5S2(7S)4F
286.4377	-3.194	26055.423	2.5	D6S (3G)4G	60956.781	3.5	4P (3H)4G	287.8245	-3.360	58666.258	3.5	D6S (1G)2G
286.4492	-1.292	31483.176	3.5	D6S (3D)4D	66377.283	3.5	4P (3G)4F	287.8149	-2.141	73637.340	1.5	D5S2(7S)4F
286.5253	-3.194	38164.194	2.5	D6S (1D)2D	73054.881	2.5	4P (1G)2F	287.8170	-4.240	27314.922	3.5	D6S (3F)2F
286.5271	-3.389	105414.180	2.5	4D (3F)4G	70523.706	3.5	4P (3G)2G	287.8327	-3.915	57493.321	1.5	D5S2(7S)4F
286.5459	-1.003	80177.975	1.5	5S (5D)4D	45289.801	1.5	4P (5D)4F	287.8585	-3.360	58666.258	3.5	D6S (1G)2G
286.5784	-4.320	31364.440	1.5	D6S (3D)4D	66248.660	0.5	4P (3P)2S	287.9091	-3.923	57493.321	1.5	D5S2(7S)4F
286.6001	-4.748	73492.215	3.5	D5S2(7S)4F	108373.800	3.5	260DD	287.9245	-1.618	30388.542	4.5	D6S (3G)2G
286.6038	-4.701	103983.510	3.5	5S (3G)2G	69102.380	2.5	4SP(5S)4P	287.9554	-2.810	26170.181	5.5	D6S (3H)2H
286.6114	-4.044	31368.450	0.5	D6S (3D)4D	66248.660	0.5	4P (3P)2S	287.9807	-3.110	99824.045	2.5	5S (3F)4F
286.6201	-0.005	108630.429	5.5	5S (1I)2I	73751.282	4.5	4P (1I)2H	288.0129	-3.028	31811.822	2.5	D7 (5D)2F
286.6544	-3.145	57578.464	0.5	D5S2(7S)4F	92453.460	0.5	4P (3F)4D	288.0129	-3.028	31811.822	2.5	D7 (5D)2F
286.6688	-2.946	57411.065	2.5	D5S2(7S)4F	92282.460	3.5	4SP(5G)4F	288.0756	-1.535	7955.299	3.5	D6S (5D)4D
286.7340	-3.533	57493.321	1.5	D5S2(7S)4F	92358.610	1.5	4SP(5G)4F	288.0832	-1.228	27620.412	2.5	D6S (3F)2F
286.7524	-3.786	57411.065	2.5	D5S2(7S)4F	92274.120	2.5	4P (3P)4P	288.1803	-3.036	31387.948	2.5	D6S (3D)4D
286.7733	-3.972	31811.822	2.5	D7 (5D)2F	66672.334	3.5	4P (3G)4H	288.2190	-1.596	79439.467	3.5	5S (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
288.2506	-0.243	108648.695	6.5	5S (11)21	73966.832	6.5	4P (11)21	290.0759	-3.945	58666.258	3.5	D6S (1G)2G	93129.900	3.5	4P (3F)4D
288.2750	-1.600	108648.695	6.5	5S (11)21	73969.767	5.5	4P (11)21	290.0767	-2.818	58673.225	4.5	5S (3F)4F	93159.679	3.5	4P (3F)2G
288.3219	-4.946	31999.048	3.5	D7 (5D)2F	66672.334	3.5	4P (3G)4H	290.1464	-5.147	26170.181	5.5	D6S (3H)2H	60625.449	5.5	4P (3H)4G
288.3364	-2.460	100749.810	2.5	5S (3F)2F	66078.269	2.5	4P (3G)4G	290.1531	-5.182	26352.766	4.5	D6S (3H)2H	60807.230	4.5	4P (3H)4G
288.3710	-0.625	26170.181	5.5	D6S (3H)2H	60837.569	6.5	4P (3H)4H	290.2062	-2.533	31483.176	3.5	D6S (3D)4D	65931.334	3.5	4P (3G)4G
288.4025	-1.205	108630.429	5.5	5S (11)21	73966.832	6.5	4P (11)21	290.2319	-2.281	37620.412	2.5	D6S (3F)2F	62065.521	3.5	4P (3F)4F
288.4269	-0.179	108630.429	5.5	5S (11)21	73969.767	5.5	4P (11)21	290.2463	-1.514	30388.542	4.5	D6S (3G)2G	64831.943	4.5	4P (3F)2G
288.4765	-0.733	79439.467	3.5	5S (5D)4D	44784.761	2.5	4P (3P)2D	290.2775	-2.846	60441.033	1.5	D5S2(7S)4F	94880.740	1.5	4SP(5F)4P
288.5402	-2.539	57578.484	0.5	D5S2(7S)4F	92225.538	1.5	5P (5D)4D	290.3390	-4.484	57411.065	2.5	D5S2(7S)4F	91843.470	1.5	5P (5D)6P
288.5420	-1.420	32875.646	6.5	D6S (11)21	67516.332	5.5	4P (3G)2H	290.3566	-3.399	60270.339	3.5	D5S2(7S)4D	94700.660	2.5	4P (3F)2D
288.5933	-2.883	73492.215	3.5	D5S2(7S)4F	108130.600	2.5	200DD	290.3710	-4.738	27620.412	2.5	D6S (3F)2F	62049.025	2.5	4SP(7S)6P
288.6124	-2.883	73492.215	3.5	D5S2(7S)4F	108130.600	2.5	200DD	290.4377	-7.449	25981.629	3.5	D6S (3G)4G	60402.342	2.5	4P (3P)4P
288.6170	-4.351	57578.484	0.5	D5S2(7S)4F	92216.320	1.5	4P (3P)2D	290.4598	-1.062	98294.440	1.5	5S (3H)4H	63876.317	5.5	4P (3F)4G
288.6236	-3.028	26170.181	5.5	D6S (3H)2H	60807.230	4.5	4P (3H)4G	290.4880	-3.196	60270.339	3.5	D5S2(7S)4D	94685.090	2.5	4SP(5D)6P
288.6266	-3.206	26352.766	4.5	D6S (3H)2H	60989.444	4.5	4P (3H)4H	290.4964	-2.539	100492.020	3.5	5S (3F)2F	66078.269	2.5	4P (3G)4G
288.6459	-4.950	60445.275	2.5	D5S2(7S)4F	95079.640	3.5	4P (3G)2G	290.5183	-1.926	27620.412	2.5	D6S (3F)2F	61726.077	3.5	4P (3P)4D
288.6708	-3.827	10515.090	4.5	4D (3F)4G	70523.706	3.5	4P (3P)4P	290.5704	-4.568	38214.507	1.5	D6S (1D)2D	72619.490	2.5	4P (3D)4D
288.7314	-1.578	27620.412	2.5	D6S (3F)2F	62244.520	1.5	4P (3F)4F	290.5744	-0.632	98445.400	4.5	5S (3H)4H	64040.886	3.5	4P (3F)4G
288.7647	-1.827	98568.912	3.5	5S (3H)4H	63948.790	4.5	4P (3F)4G	290.6124	-1.669	26932.748	0.5	D6S (3P)2P	61332.764	1.5	4P (3F)4G
288.8095	-1.357	2787.598	1.5	D6S (3P)2P	60402.342	2.5	4P (3P)4P	290.6600	-2.164	73492.215	3.5	D5S2(7S)4F	107886.600	3.5	200DD
288.8790	-3.211	32909.905	5.5	D6S (11)21	67516.332	5.5	4P (3G)2H	290.7856	-2.910	7955.299	3.5	D6S (5D)4D	46234.822	2.5	4P (5D)6F
288.8991	-2.820	26352.766	4.5	D6S (3H)2H	60956.100	2.5	4P (3F)2F	290.7965	-4.321	31999.048	3.5	5D (5D)2F	66377.283	3.5	4P (3G)4F
288.9257	-4.979	60445.275	2.5	D5S2(7S)4F	95046.100	2.5	4P (3F)2F	290.8073	-2.269	103983.510	3.5	5S (3F)2G	69606.552	3.5	4P (3G)2F
288.9686	-2.895	79885.493	2.5	5S (5D)4D	45289.801	1.5	4P (5D)4F	290.8448	-2.913	100749.810	2.5	5S (3F)2F	66377.283	3.5	4P (3G)4F
288.9736	-4.430	31483.176	3.5	D6S (3D)4D	66078.269	2.5	4P (3G)4G	290.8657	-4.938	44915.046	3.5	D6S (1F)2F	79285.110	2.5	4SP(5S)6P
288.9834	-3.917	60445.275	2.5	D5S2(7S)4F	95039.200	1.5	4P (3P)2P	290.9038	-2.234	69506.934	1.5	D6S (3P)4F	83868.450	2.5	4P (1F)2D
289.0165	-4.310	31999.048	3.5	D7 (5D)2F	60956.100	2.5	4P (3G)4H	290.9477	-3.523	38164.194	2.5	D6S (1D)2D	72524.566	1.5	4P (3D)4D
289.0648	-3.182	102384.963	5.5	5S (3G)4G	68000.788	4.5	4P (3G)2H	290.9544	-4.818	79439.467	3.5	5S (5D)4D	45079.879	2.5	4P (5D)4F
289.1006	-4.793	54273.641	4.5	D5S2(7S)4G	88853.533	3.5	5P (5D)6D	290.9729	-4.851	57493.321	1.5	D5S2(7S)4P	91850.722	0.5	4SP(5D)6F
289.1150	-2.616	99688.337	3.5	5S (3F)4F	65109.679	3.5	4P (3F)2G	290.9973	-2.658	27620.412	2.5	D6S (3F)2F	61974.933	1.5	4SP(7S)6P
289.1714	-1.887	73393.745	4.5	D5S2(7S)4F	88853.533	3.5	5P (5D)6D	291.0617	-4.079	26055.423	2.5	D6S (3G)4G	60402.342	2.5	4P (3F)4P
289.1910	-1.844	98445.400	4.5	5S (3H)4H	63876.317	5.5	4P (3F)4G	291.0728	-0.520	98294.440	1.5	5S (3H)4H	63948.790	4.5	4P (3F)4G
289.1913	-4.796	54902.315	1.5	D6S (3P)2P	89471.365	0.5	5P (3D)6D	291.0763	-2.166	30764.485	3.5	D6S (3G)2G	65109.679	3.5	4P (3F)2G
289.2213	-3.342	31811.822	2.5	D7 (5D)2F	66377.268	3.5	4P (3G)4F	291.1795	-0.318	103983.510	3.5	5S (3G)2G	69650.484	2.5	4P (3G)2F
289.2613	-3.187	100492.020	3.5	5S (3F)2F	65931.334	3.5	4P (3G)4G	291.3074	-3.934	60445.275	2.5	D5S2(7S)4D	94763.219	3.5	4SP(5D)6P
289.2827	-2.690	8680.454	1.5	D6S (5D)4D	43238.586	2.5	4P (5D)6P	291.3405	-1.511	44929.550	2.5	D6S (1F)2F	79243.600	1.5	4P (1D)2P
289.3151	-4.253	73637.340	1.5	D5S2(7S)4F	108191.600	1.5	230DD	291.3744	-4.226	38214.507	1.5	D6S (1D)2D	72524.566	1.5	4P (3D)4D
289.3407	-5.340	27620.412	2.5	D6S (3F)2F	62171.615	3.5	4SP(7S)6P	291.4757	-3.856	60441.033	1.5	D5S2(7S)4D	94739.170	1.5	4SP(5F)4P
289.4062	-2.002	31387.948	2.5	D6S (3D)4D	65931.334	3.5	4P (3G)4G	291.5117	-2.705	60445.275	2.5	D5S2(7S)4D	94739.170	1.5	4SP(5F)4P
289.4779	-1.098	26352.766	4.5	D6S (3H)2H	60887.598	5.5	4P (3H)4H	291.5968	-3.190	50075.910	1.5	D6S (3F)4F	84359.800	1.5	4P (1F)2D
289.4821	-3.327	33466.463	4.5	D6S (1G)2G	68000.788	4.5	4P (3G)2H	291.6081	-1.956	98568.912	3.5	5S (3H)4H	64286.345	3.5	4P (3F)2F
289.5087	-1.814	27620.412	2.5	D6S (3F)2F	62151.561	2.5	4P (3F)4F	291.6151	-3.021	7955.299	3.5	D6S (3H)4H	42237.033	3.5	4P (5D)6F
289.5220	-0.814	31483.176	3.5	D6S (3D)4D	66012.750	4.5	4P (3G)4F	291.6922	-3.601	26352.766	4.5	D6S (3H)2H	60623.449	5.5	4P (3H)4G
289.5349	-1.150	98568.912	3.5	5S (3H)4H	64040.886	3.5	4P (3G)4G	291.7083	-1.334	36252.918	2.5	D6S (3D)2D	70523.706	3.5	4P (3G)2G
289.5749	-4.658	31999.048	3.5	D7 (5D)2F	66522.304	2.5	4P (3G)4F	291.7083	-1.334	36252.918	2.5	D6S (3D)2D	70523.706	3.5	4P (3G)2G
289.7266	-1.094	27620.412	2.5	D6S (3F)2F	62125.600	1.5	4P (3P)2D	291.7453	-2.554	31811.822	2.5	D7 (5D)2F	66078.269	2.5	4P (3G)4G
289.7688	-1.697	99332.102	4.5	5S (3H)2H	64831.943	4.5	4P (3F)2G	291.7466	-2.597	98191.938	2.5	D6S (5D)4D	42658.224	3.5	4P (5D)6P
289.7741	-0.966	33501.253	3.5	D6S (1G)2G	63948.790	4.5	4P (3G)2H	291.8033	-4.653	60441.033	1.5	D5S2(7S)4D	94700.660	2.5	4P (3F)2D
289.7986	-0.966	98445.400	4.5	5S (3H)4H	63948.790	4.5	4P (3F)4G	291.8395	-3.597	60445.275	2.5	D5S2(7S)4D	94700.660	2.5	4P (3F)2D
289.8006	-3.161	60384.370	0.5	D5S2(7S)4D	94880.740	0.5	4SP(3P)4P	291.8529	-0.424	98130.131	6.5	5S (3H)4H	63876.317	5.5	4P (3F)4G
289.8268	-2.954	73637.340	1.5	D5S2(7S)4F	108130.600	2.5	200DD	291.9722	-4.264	60445.275	2.5	D5S2(7S)4D	94685.090	2.5	4SP(5D)6P
289.8300	-4.568	60270.339	3.5	D5S2(7S)4D	94763.219	3.5	4SP(3D)6P	292.0308	-3.762	58666.258	3.5	D6S (1G)2G	92899.200	2.5	4P (3F)4D
289.8302	-2.689	73393.745	4.5	D5S2(7S)4F	107886.600	3.5	200DD	292.0772	-2.716	100749.810	2.5	5S (3F)2F	66522.304	2.5	4P (3G)4F
289.8440	-4.560	54232.195	5.5	D5S2(7S)4G	88723.400	4.5	5P (3D)6D	292.1206	-2.071	99332.102	4.5	5S (3F)2F	65109.679	3.5	4P (3F)2G
289.8485	-2.169	73395.930	2.5	D5S2(7S)4F	107886.600	3.5	200DD	292.1206	-2.071	99332.102	4.5	5S (3F)2F	65109.679	3.5	4P (3F)2G
289.8736	-1.791	38164.194	2.5	D6S (1D)2D	72651.876	3.5	4P (3D)4D	292.1668	-2.986	50142.786	2.5	D6S (3F)4F	84359.800	1.5	4P (1F)2D
289.8736	-1.791	38164.194	2.5	D6S (1D)2D	72651.876	3.5	4P (3D)4D	292.1822	-2.734	38214.507	1.5	D6S (1D)2D	72429.711	0.5	4P (3D)4D
289.9257	-0.634	98568.912	3.5	5S (3H)4H	64087.418	2.5	4P (3F)4G	292.2022	-1.197	31483.176	3.5	D6S (3D)4D	65696.038	4.5	4P (3G)4G
289.9444	-2.499	100492.0													

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
292.3307	-2.065	108804.667	3.5	5S (3D)4D	295.4052	-1.542	27314.922	3.5	D6S (3F)2F
292.3317	-1.902	27314.922	3.5	D6S (3F)2F	295.4193	-1.588	99918.569	1.5	5S (3F)4F
292.4162	-2.541	38164.194	2.5	D6S (1D)2D	295.4332	-3.285	103265.694	0.5	6S (5D)4D
292.6195	-4.040	57411.065	2.5	D5S2(7S)4P	295.5222	-3.198	18214.507	1.5	D6S (1D)2D
292.6585	-1.333	7995.299	3.5	D6S (5D)4D	295.5994	-4.484	100492.020	3.5	5S (3F)2F
292.6625	-1.102	98445.400	4.5	5S (3H)4H	295.6289	-3.170	103118.400	1.5	6S (5D)4D
292.7661	-0.934	50212.826	2.5	D6S (3F)4P	295.7671	-3.140	38164.194	2.5	D6S (1D)2D
292.7758	-4.212	98568.912	3.5	5S (3H)4H	295.7692	-2.851	73395.930	2.5	D5S2(7S)4F
292.8503	-0.966	100749.810	2.5	5S (3F)2F	295.7731	-3.187	78843.992	0.5	5S (5D)6D
292.8940	-3.120	99688.337	3.5	5S (3F)4F	295.7906	-4.421	57411.065	2.5	D5S2(7S)4P
292.9082	-4.798	78577.280	4.5	D5S2(7S)2G	295.8114	-2.199	58631.531	4.5	D6S (1G)2G
293.0017	-3.703	31811.822	2.5	D7 (5D)2F	295.8369	-4.404	50075.910	1.5	D6S (3F)4F
293.0427	-2.962	100492.020	3.5	5S (3F)2F	295.8520	-1.662	78237.685	3.5	5S (5D)6D
293.1207	-4.152	27620.412	2.5	D6S (3F)2F	295.8816	-3.543	60270.339	3.5	D5S2(7S)4D
293.1475	-2.746	26932.748	0.5	D6S (3F)2P	295.9139	-4.963	54275.637	2.5	D5S2(7S)4G
293.1595	-0.567	54902.315	1.5	D6S (3F)2P	295.9599	-1.008	27314.922	3.5	D6S (3F)2F
293.3481	-3.167	31999.048	3.5	D7 (5D)2F	295.9803	-4.592	54283.220	3.5	D5S2(7S)4F
293.3541	-4.859	78525.407	2.5	5S (5D)6D	295.9833	-0.297	99332.102	4.5	5S (3H)2H
293.3631	-4.735	100749.810	2.5	5S (3F)2F	295.9835	-0.777	44915.046	3.5	D6S (1F)2F
293.3683	-4.048	105063.550	5.5	4D (3F)4G	296.0181	-3.089	73393.745	4.5	D5S2(7S)4F
293.4008	-3.639	31483.176	3.5	D6S (3D)4D	296.0202	-3.285	78525.407	2.5	5S (5D)6D
293.4494	-2.312	30764.485	3.5	D6S (3G)2G	296.0282	-3.929	60441.033	1.5	D5S2(7S)4D
293.6010	-1.716	33466.463	4.5	D6S (1G)2G	296.0372	-2.755	73395.930	2.5	D5S2(7S)4F
293.7801	-3.039	58666.258	3.5	D6S (1G)2G	296.0653	-4.272	60445.275	2.5	D5S2(7S)4D
293.8242	-3.385	38214.507	1.5	D6S (1D)2D	296.1107	-2.781	44929.550	2.5	D6S (1F)2F
293.8852	-0.568	99573.225	4.5	5S (3F)4F	296.1157	-3.346	58666.258	3.5	D6S (1G)2G
293.8932	-4.191	103118.400	1.5	6S (5D)4D	296.1483	-1.697	99688.337	3.5	5S (3F)4F
293.9132	-4.303	31999.048	3.5	D7 (5D)2F	296.1495	-3.857	57411.065	2.5	D5S2(7S)4P
293.9507	-2.598	8391.938	2.5	D6S (5D)4D	296.1917	-1.436	99332.102	4.5	5S (3H)2H
293.9869	-3.284	78237.685	3.5	5S (5D)6D	296.2160	-1.756	100749.810	2.5	5S (3F)2F
293.9901	-3.580	38164.194	2.5	D6S (1D)2D	296.2469	-2.003	99824.045	2.5	5S (3F)4F
294.0113	-0.206	103608.909	4.5	5S (3G)2G	296.2919	-1.827	78525.407	2.5	5S (5D)6D
294.0449	-4.789	38214.507	1.5	D6S (1D)2D	296.3242	-2.974	98568.912	3.5	5S (3H)4H
294.0906	-1.960	99573.225	4.5	5S (3F)4F	296.3867	-0.463	99093.452	5.5	5S (3H)2H
294.0983	-1.560	99688.337	3.5	5S (3F)4F	296.4133	-1.722	27314.922	3.5	D6S (3F)2F
294.2812	-2.877	58631.531	4.5	D6S (1G)2G	296.4235	-3.417	50142.786	2.5	D6S (3F)4F
294.2938	-0.985	100492.020	3.5	5S (3F)2F	296.4623	-1.739	13904.824	0.5	D7 (5D)4P
294.3043	-3.700	99332.102	4.5	5S (3H)2H	296.4659	-2.940	8680.454	1.5	D6S (5D)4D
294.3468	-3.978	103265.694	0.5	6S (5D)4D	296.4987	-3.220	60270.339	3.5	D5S2(7S)4D
294.4258	-4.637	38214.507	1.5	D6S (1D)2D	296.5033	-1.481	13673.185	1.5	D7 (5D)4P
294.4396	-1.011	13673.185	1.5	D7 (5D)4P	296.5284	-2.787	50157.452	4.5	D6S (3F)4F
294.5265	-3.094	8391.938	2.5	D6S (5D)4D	296.5406	-2.298	27620.412	2.5	D6S (3F)2F
294.5393	-3.078	60270.339	3.5	D5S2(7S)4D	296.5927	-4.919	57493.321	1.5	D5S2(7S)4P
294.5426	-3.508	78725.790	1.5	5S (5D)6D	296.6142	-3.924	73492.215	3.5	D5S2(7S)4F
294.5823	-1.685	58666.258	3.5	D6S (1G)2G	296.6499	-3.237	102802.312	2.5	6S (5D)2F
294.5879	-4.838	54273.641	4.5	D5S2(7S)4G	296.6758	-2.785	131999.048	3.5	D7 (5D)4P
294.6185	-4.833	31999.048	3.5	D7 (5D)2F	296.7248	-3.285	103118.400	1.5	6S (5D)4D
294.6710	-4.833	54283.220	3.5	D5S2(7S)4G	296.7460	-4.779	54275.637	2.5	D5S2(7S)4G
294.7654	-0.974	13474.411	2.5	D7 (5D)4P	296.7957	-3.101	50187.813	4.5	4P (1F)2G
294.8729	-3.293	100492.020	3.5	5S (3F)2F	296.8111	-2.123	78725.790	1.5	5S (5D)6D
294.9182	-0.625	30388.542	4.5	D6S (3G)2G	296.8198	-3.375	50187.813	3.5	D6S (3F)4F
294.9625	-1.561	99824.045	2.5	5S (3F)4F	296.8333	-3.268	32909.905	5.5	D6S (1I)2I
295.0833	-2.904	38164.194	2.5	D6S (1D)2D	296.8643	-1.781	99688.337	3.5	5S (3F)4F
295.0891	-3.963	60270.339	3.5	D5S2(7S)4D	296.8737	-2.516	27314.922	3.5	D6S (3F)2F
295.0977	-1.734	99573.225	4.5	5S (3F)4F	296.8838	-3.025	73492.215	3.5	D5S2(7S)4F
295.1092	-2.414	25787.598	1.5	D6S (3F)2P	296.9144	-4.351	99918.569	1.5	5S (3F)4F
295.2504	-3.603	104174.270	5.5	4D (3H)4I	296.9232	-1.766	103983.510	3.5	5S (3G)2G
295.3775	-1.417	8391.938	2.5	D6S (5D)4D					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
296.9698	-3.008	58666.258	3.5	D6S (1G)2G	92329.890	2.5	48P (5G)4F	298.5090	-2.503	57411.065	2.5	D5S2(7S)4P	9091.124	2.5	5P (5D)4P
296.9937	-0.825	30764.485	3.5	D6S (3G)2G	64425.408	2.5	4P (3F)2F	298.5282	-4.820	58666.258	3.5	D6S (1G)2G	92154.165	3.5	48P (5D)6F
297.0064	-2.641	57411.065	2.5	D5S2(7S)4P	91070.547	2.5	5P (5D)4F	298.5290	-3.300	57411.065	2.5	D5S2(7S)4P	90898.873	1.5	4P (3F)4P
297.0404	-3.450	50212.826	2.5	D6S (3F)4P	83868.450	2.5	4P (1F)2D	298.5293	-3.315	30388.542	4.5	D6S (3G)2G	63876.317	5.5	4P (3F)4G
297.0515	-1.651	8680.454	1.5	D6S (5D)4D	42334.822	2.5	4P (5D)6F	298.5319	-2.312	58631.531	4.5	D6S (1G)2G	92116.780	4.5	48P (5G)4H
297.0694	-1.041	30388.542	4.5	D6S (3G)2G	60400.886	3.5	4P (3F)4G	298.5345	-1.043	13904.824	0.5	D7 (5D)4P	47389.779	1.5	4P (5D)4P
297.0819	-3.941	58631.531	4.5	D6S (1G)2G	92282.460	3.5	48P (5G)4F	298.5640	-2.147	78237.685	3.5	5S (5D)6D	44753.799	3.5	4P (5D)4F
297.1165	-3.196	60384.370	0.5	D5S2(7S)4D	94031.378	0.5	48P (5G)6D	298.5876	-3.024	78525.407	2.5	5S (5D)6D	45044.168	1.5	4P (5D)4D
297.1262	-3.464	78725.790	1.5	5S (5D)6D	45079.879	2.5	4P (5D)4F	298.6345	-0.540	100749.810	2.5	5S (3F)2F	67273.826	1.5	4P (3F)2D
297.1617	-3.514	99573.225	4.5	5S (3F)4F	65931.334	3.5	4P (3G)4G	298.6611	-2.007	27620.412	2.5	D6S (3F)2F	61093.413	2.5	4P (3P)2D
297.1620	-3.956	27314.922	3.5	D6S (3F)2F	60956.781	3.5	4P (3H)4G	298.6899	-3.249	57578.484	0.5	D5S2(7S)4P	91048.256	1.5	5P (5D)4D
297.2001	-2.457	78843.992	0.5	5S (5D)6D	45206.450	0.5	4P (5D)4D	298.6912	-3.564	31366.440	1.5	D6S (3D)4D	64834.073	1.5	4P (3P)2P
297.2032	-3.828	57411.065	2.5	D5S2(7S)4P	91048.256	1.5	5P (5D)4D	298.6927	-4.361	73393.745	4.5	D5S2(7S)4P	106863.200	3.5	160DD
297.2132	-1.552	99332.102	4.5	5S (3H)2H	65696.038	4.5	4P (3G)4G	298.7123	-3.788	73393.930	2.5	D5S2(7S)4F	106863.200	3.5	160DD
297.2413	-2.122	105763.270	5.5	4D (3F)2H	72130.390	4.5	4P (1G)2H	298.7270	-3.706	31368.450	0.5	D6S (3D)4D	64834.073	1.5	4P (3P)2P
297.2632	-3.630	57578.484	0.5	D5S2(7S)4P	91208.887	1.5	5P (5D)4F	298.7552	-1.463	98294.401	5.5	5S (3H)4H	64834.943	4.5	4P (3F)2G
297.2746	-2.003	77861.625	4.5	5S (5D)6D	44232.512	4.5	4P (5D)4F	298.7615	-4.291	103630.750	2.5	5D (5D)4G	72168.998	1.5	4P (3D)4F
297.2848	-4.032	60445.275	2.5	D5S2(7S)4D	94073.240	3.5	48P (5G)4G	298.7789	-0.115	103983.510	3.5	5S (3G)2G	70521.067	3.5	4P (3G)2G
297.2977	-3.854	31483.176	3.5	D6S (3D)4D	65109.679	3.5	4P (3F)2G	298.7840	-2.689	98568.912	3.5	5S (3H)4H	65109.679	3.5	4P (3G)2G
297.3440	-4.030	57578.484	0.5	D5S2(7S)4P	91199.746	0.5	5P (5D)4D	298.7858	-4.585	105589.420	3.5	4D (3F)4H	72130.390	4.5	4P (1G)2H
297.3888	-1.823	58666.258	3.5	D6S (1G)2G	92282.460	3.5	48P (5G)4F	298.8131	-4.771	60384.370	0.5	D5S2(7S)4D	93840.340	1.5	48P (5D)6D
297.4131	-4.664	98445.400	4.5	5S (3H)4H	64831.943	4.5	4P (3F)2G	298.8404	-3.860	78237.685	3.5	5S (5D)6D	44784.761	2.5	4P (5D)4D
297.4206	-4.573	73393.745	4.5	D5S2(7S)4F	107006.360	4.5	48P (3F)2H	298.8618	-3.415	58666.258	3.5	D6S (1G)2G	92116.780	4.5	48P (5G)4H
297.4431	-4.497	99688.337	3.5	5S (3F)4F	66078.269	2.5	4P (3G)4G	298.8712	-4.565	105414.180	2.5	4D (3F)4G	71964.710	2.5	4P (3D)4P
297.4611	-4.926	26055.423	2.5	D6S (3G)4G	59663.456	1.5	4P (3P)4S	298.8854	-2.033	99824.045	2.5	5S (3F)4F	66377.283	3.5	4P (3G)4F
297.4626	-4.077	58666.258	3.5	D6S (1G)2G	92274.120	2.5	4P (3P)4P	298.9011	-4.018	31387.948	2.5	D6S (3D)4D	64834.073	1.5	4P (3P)2P
297.5937	-2.545	8846.768	0.5	D6S (5D)4D	42439.822	0.5	4P (5D)6F	298.9064	-2.573	78525.407	2.5	5S (5D)6D	45079.879	2.5	4P (5D)4F
297.6177	-3.198	60441.033	1.5	D5S2(7S)4D	94031.378	0.5	48P (5G)6D	298.9376	-3.478	31364.440	1.5	D6S (3D)4D	64806.487	0.5	4P (3P)2P
297.6395	-2.561	32875.646	6.5	D6S (11)21	66463.528	5.5	4P (3G)4H	298.9734	-3.152	31368.450	0.5	D6S (3D)6D	64806.487	0.5	4P (3P)2P
297.6409	-4.836	105630.750	2.5	5D (5D)4G	72043.026	1.5	4P (3D)4P	298.9824	-2.033	99824.045	2.5	5S (3F)4F	66377.283	3.5	4P (3G)4F
297.7340	-3.109	57493.321	1.5	D5S2(7S)4P	91070.547	2.5	5P (5D)4F	298.9917	-3.201	78725.790	1.5	5S (5D)6D	45289.801	1.5	4P (5D)4F
297.8812	-1.978	60270.339	3.5	D5S2(7S)4P	93830.979	2.5	48P (3G)6D	299.1079	-3.942	58666.258	3.5	D6S (1G)2G	92089.260	3.5	48P (5G)4H
297.8826	-1.775	99573.225	4.5	5S (3F)4F	66012.750	4.5	4P (5D)4D	299.1228	-2.691	27620.412	2.5	D6S (3F)2F	61041.748	2.5	4P (3H)4G
297.8846	-2.388	30388.542	4.5	D6S (3G)2G	63948.790	4.5	4P (3F)4G	299.1818	-1.841	77861.625	4.5	5S (5D)6D	44446.878	3.5	4P (5D)4D
297.8970	-3.263	73637.340	1.5	D5S2(7S)4F	92274.120	2.5	4P (3F)4G	299.2440	-3.612	57493.321	1.5	D5S2(7S)4P	90988.873	1.5	4P (3P)4P
297.9081	-1.304	44929.550	2.5	D6S (1F)2F	107196.200	2.5	180DD	299.2642	-2.952	57493.321	1.5	D5S2(7S)4P	90988.873	1.5	4P (3P)4P
297.9114	-2.045	31999.048	3.5	D7 (5D)2F	78487.153	1.5	4P (1D)2D	299.2642	-2.952	57493.321	1.5	D5S2(7S)4P	90988.873	1.5	4P (3P)4P
297.9318	-4.217	57493.321	1.5	D5S2(7S)4P	91048.256	1.5	5P (5D)4D	299.3070	-4.073	99332.102	4.5	5S (3H)2H	65931.334	3.5	4P (3G)4G
297.9354	-2.018	8846.768	0.5	D6S (5D)4D	42401.302	1.5	4P (5D)6F	299.3201	-3.487	60441.033	1.5	D5S2(7S)4D	93840.340	1.5	48P (5D)6D
297.9384	-3.943	78843.992	0.5	5S (5D)6D	45289.801	1.5	4P (3G)4H	299.3357	-2.284	36252.918	2.5	D6S (3D)2D	69650.484	2.5	4P (3G)2F
297.9435	-4.478	32909.905	5.5	D6S (11)21	66463.528	5.5	4P (3G)4H	299.3371	-3.323	99093.452	5.5	5S (3H)2H	65696.038	4.5	4P (3G)4G
298.0028	-1.317	60441.033	1.5	D5S2(7S)4D	93988.170	2.5	48P (5G)4G	299.3474	-2.316	99918.569	1.5	5S (3F)4F	66522.304	2.5	4P (3G)4F
298.0628	-1.161	58631.531	4.5	D6S (1G)2G	92171.716	4.5	4P (3F)2G	299.3581	-3.367	60445.275	2.5	D5S2(7S)4D	92280.340	1.5	48P (5D)6D
298.0896	-1.961	27620.412	2.5	D6S (3F)2F	65556.280	4.5	4P (3H)2H	299.3835	-4.779	105630.750	2.5	D5S2(7S)4D	92280.340	1.5	48P (5D)6D
298.2059	-0.612	36126.387	1.5	D6S (3P)2D	69500.484	2.5	4P (3G)4F	299.4421	-3.761	60445.275	2.5	D5S2(7S)4D	93830.979	2.5	48P (5D)6D
298.2482	-2.835	78725.790	1.5	5S (5D)6D	45206.450	0.5	4P (5D)4D	299.5726	-2.789	103414.180	2.5	4D (3F)4G	72043.026	1.5	4P (3D)4P
298.2945	-4.530	73492.210	3.5	D5S2(7S)4F	105006.350	4.5	48P (3F)2H	299.5742	-2.521	73492.210	3.5	D5S2(7S)4F	106863.200	3.5	160DD
298.3010	-0.322	99093.452	5.5	5S (3H)2H	67580.041	5.5	4P (3G)4G	299.7300	-0.776	36252.918	2.5	D6S (3D)2D	69650.484	2.5	4P (3G)2F
298.3718	-2.462	58666.258	3.5	D6S (1G)2G	92171.716	4.5	4P (3F)2G	299.7545	-3.004	105589.420	3.5	4D (3F)4H	72238.513	2.5	4P (3D)4F
298.4045	-4.923	32909.905	5.5	D6S (11)21	66411.686	6.5	4P (3G)4H	299.7738	-4.182	31483.176	3.5	D6S (3D)4D	64831.943	4.5	4P (3F)2G
298.4067	-3.691	105763.270	5.5	4D (3F)2H	72261.729	5.5	4P (1G)2H	299.8852	-2.543	27620.412	2.5	D6S (3F)2F	60956.781	3.5	4P (3P)4G
298.4184	-2.881	102802.312	2.5	6S (5D)4D	69302.090	1.5	48P (5S)4P	299.8911	-1.782	98445.400	4.5	5S (3H)4H	65956.781	3.5	4P (3F)2G
298.4269	-3.331	33501.253	3.5	D6S (1G)2G	67000.517	2.5	4P (3F)2D	299.9543	-4.100	104315.370	6.5	4D (3H)2K	70986.677	6.5	4P (11)2K
298.4825	-0.611	13474.411	2.5	D7 (5D)4P	46967.444	2.5	4P (5D)4P	299.9759	-3.347	105291.010	3.5	4D (3F)4G	71964.710	2.5	4P (3D)4P
298.4889	-2.186	27314.922	3.5	D6S (3F)2F	60807.230	4.5	4P (3H)4G	300.0062	-1.106	30764.485	3.5	D6S (3G)2G	64087.418	2.5	4P (3F)4G
298.4961	-0.300	100492.020	3.5	5S (3F)2F	67000.517	2.5	4P (3F)2D	300.0291	-3.078	57578.484	0.5	D5S2(7S)4P	90898.873	1.5	4P (3P)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
300.0384	-1.955	99332.102	4.5	5S (3H)2H	66012.750	4.5	4P (3G)4F	301.9299	-3.001	31999.048	3.5	D7 (5D)2F
300.1132	-1.509	99688.337	3.5	5S (3F)4F	66377.283	3.5	4P (3G)4F	301.9384	-2.685	99573.225	4.5	5S (3F)4F
300.1595	-1.832	99918.569	1.5	5S (3F)4F	66612.656	1.5	4P (3G)4F	301.9467	-3.421	54232.195	5.5	D5S2(7S)4G
300.1971	-1.648	99824.045	2.5	5S (3F)4F	66522.304	2.5	4P (3G)4F	302.0009	-2.914	32909.905	5.5	D6S (11)21
300.2321	-1.548	31811.822	2.5	D7 (5D)2F	65109.679	3.5	4P (3F)2G	302.0252	-4.456	57493.321	1.5	D5S2(7S)4P
300.2417	-4.457	54275.637	2.5	D5S2(7S)4G	87572.431	2.5	4SP(5G)6F	302.0330	-3.978	99688.337	3.5	5S (3F)4F
300.2450	-2.686	73393.745	4.5	D5S2(7S)4F	106690.170	5.5	4SP(3I)2H	302.0495	-4.710	105449.540	3.5	5D (5F)4G
300.2641	-0.016	103608.909	4.5	5S (3G)2G	70314.604	4.5	4P (5D)4P	302.1386	-2.824	33501.253	3.5	D6S (1G)2G
300.2646	-1.038	13673.185	1.5	D7 (5D)4P	46967.444	2.5	4P (5D)4P	302.1417	-2.602	27314.922	3.5	D6S (3F)2F
300.2819	-6.008	102394.718	3.5	6S (5D)4D	69102.380	2.5	4SP(5S)4P	302.1619	-2.258	103608.909	4.5	5S (3G)2G
300.3101	-4.009	54283.220	3.5	D5S2(7S)4G	87572.431	2.5	4SP(5G)6F	302.1661	-3.568	105127.770	2.5	5D (5D)4D
300.3427	-1.748	30764.485	3.5	D6S (3G)2G	64040.886	3.5	4P (3F)4G	302.1930	-2.639	98445.400	4.5	5S (3H)4H
300.44974	-3.713	105398.852	5.5	4D (3F)4H	72130.390	4.5	4P (1G)2H	302.2278	-4.590	104064.670	6.5	4D (3H)4I
300.5376	-3.724	54273.641	4.5	D5S2(7S)4G	87537.652	3.5	4SP(5G)6F	302.3251	-4.474	54273.641	4.5	D5S2(7S)4G
300.5648	-4.116	57578.484	0.5	D5S2(7S)4F	90839.480	0.5	4P (3F)4P	302.3805	-4.990	105230.290	0.5	5D (5D)4D
300.6242	-3.923	54283.220	3.5	D5S2(7S)4G	87537.652	3.5	4SP(5G)6F	302.3834	-2.469	31364.440	1.5	D6S (3F)4D
300.7078	-2.325	105414.180	2.5	4D (3F)4G	72168.998	1.5	4P (3D)4F	302.4609	-2.269	105291.010	3.5	4D (3F)4G
300.7586	-3.643	54232.195	5.5	D5S2(7S)4G	87471.765	4.5	4SP(5G)6F	302.4708	-2.400	37578.484	0.5	D5S2(7S)4P
300.7945	-3.730	78525.407	2.5	5S (5D)6D	45289.801	1.5	4P (5D)4F	302.4914	-4.853	36252.918	2.5	D6S (3D)2D
300.7948	-1.523	102842.119	4.5	5S (3G)4G	69606.552	3.5	4P (3G)2F	302.5536	-4.772	60445.275	2.5	D5S2(7S)4D
300.8295	-4.993	102334.112	2.5	6S (5D)6D	69102.380	2.5	4SP(5S)4P	302.5986	-3.075	31387.948	2.5	D6S (3D)4D
300.8655	-3.014	57411.065	2.5	D5S2(7S)4P	90638.822	2.5	5P (5D)4D	302.6484	-4.253	102334.112	2.5	6S (5D)6D
300.9148	-1.904	44915.046	3.5	D6S (1F)2F	78137.364	3.5	4P (1D)2F	302.7155	-4.190	105155.090	4.5	4D (3F)4G
300.9463	-1.798	57411.065	2.5	D5S2(7S)4P	90629.902	1.5	4P (3P)4S	302.7380	-4.134	31811.822	2.5	D7 (5D)2F
300.9601	-2.543	60270.339	3.5	D5S2(7S)4D	93487.650	3.5	4P (3F)4F	302.7490	-3.608	33501.253	3.5	D6S (1G)2G
300.9880	-3.483	60270.339	3.5	D5S2(7S)4D	93484.580	4.5	4P (3G)4F	302.7833	-3.772	102330.290	0.5	5D (5D)4D
301.0138	-4.252	99824.045	2.5	5S (3F)4F	66612.656	1.5	4P (3G)4F	302.7953	-2.905	99688.337	3.5	5S (3F)4H
301.0171	-4.109	105449.540	3.5	5D (5F)4G	72238.513	2.5	4P (3D)4F	302.8262	-2.476	98568.912	3.5	5S (3H)4H
301.0216	-1.700	80177.975	1.5	5S (5D)4D	46967.444	2.5	4P (5D)4P	302.9691	-2.603	33466.463	4.5	D6S (1G)2G
301.0462	-3.670	44929.550	2.5	D6S (1F)2F	78137.364	3.5	4P (1D)2F	302.9927	-4.435	57493.321	1.5	D5S2(7S)4P
301.0638	-4.086	33466.463	4.5	D6S (1G)2G	66672.334	3.5	4P (3G)4H	303.0633	-3.123	57411.065	2.5	D5S2(7S)4P
301.0832	-2.451	108804.667	3.5	5S (3D)4D	75600.931	3.5	4P (3D)2F	303.0871	-2.428	99573.225	4.5	5S (3F)4F
301.1341	-3.606	54273.641	4.5	D5S2(7S)4G	87471.765	4.5	4SP(5G)6F	303.1627	-4.478	36126.387	1.5	D6S (3D)2D
301.1539	-2.961	99573.225	4.5	5S (3F)4F	66377.283	3.5	4P (3G)4F	303.2184	-3.850	105589.420	3.5	4D (3F)4H
301.1541	-4.147	85495.304	2.5	4D (5D)6S	52299.390	2.5	4SP(7S)8P	303.3211	-4.510	105127.770	2.5	5D (5D)4D
301.2210	-4.609	54283.220	3.5	D5S2(7S)4G	87471.765	4.5	4SP(5G)6F	303.3444	-1.552	80346.016	0.5	5S (5D)4D
301.2326	-4.766	105230.290	0.5	5D (5D)4D	72043.026	1.5	4P (3D)4P	303.3575	-3.089	99332.102	4.5	5S (3H)2H
301.2595	-4.038	30764.485	3.5	D6S (3G)2G	63948.790	4.5	4P (3F)4G	303.3620	-4.347	60441.033	1.5	D5S2(7S)4D
301.2765	-4.230	57411.065	2.5	D5S2(7S)4P	90593.497	1.5	5P (5D)6F	303.4010	-3.099	60445.275	5.5	D5S2(7S)4D
301.3376	-4.760	36126.387	1.5	D6S (3D)2D	69302.090	1.5	4SP(5S)4P	303.4561	-4.104	60384.370	0.5	D5S2(7S)4D
301.3379	-2.915	105414.180	2.5	4D (3F)4G	72238.513	2.5	4P (3D)4F	303.4734	-3.135	31483.176	3.5	D6S (3D)4D
301.3673	-3.097	33501.253	3.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F	303.5033	-2.288	105291.010	3.5	4D (3F)4G
301.3796	-3.643	105127.770	2.5	5D (5D)4D	66672.334	3.5	4P (3G)4H	303.5053	-4.609	105589.420	3.5	4D (3F)4H
301.4525	-3.643	105127.770	2.5	5D (5D)4D	71964.710	2.5	4P (3D)4P	303.5166	-3.114	105589.420	3.5	4D (3F)4H
301.4579	-3.176	50142.786	2.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	303.5570	-4.234	105063.550	5.5	4D (3F)4G
301.4747	-3.769	105291.010	3.5	4D (3F)4G	72130.390	4.5	4P (1G)2H	303.5787	-2.788	98294.401	5.5	5S (3H)4H
301.5003	-3.602	78237.685	3.5	5S (3D)6D	45079.879	2.5	4P (5D)4F	303.5996	-3.592	102030.912	3.5	6S (5D)6D
301.5557	-3.865	99824.045	2.5	5S (3F)4F	66672.334	3.5	4P (3G)4H	303.6963	-2.988	99918.569	1.5	5S (3F)4F
301.5913	-4.926	57493.321	1.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	303.6963	-0.828	79885.493	2.5	5S (5D)4D
301.6122	-2.810	105398.852	5.5	4D (3F)4H	90638.822	2.5	5P (5D)4D	303.7448	-4.182	85495.304	2.5	4D (5D)6S
301.6885	-4.992	57493.321	1.5	D5S2(7S)4P	72261.729	5.5	4P (1G)2H	303.7630	-3.128	33466.463	4.5	D6S (1G)2G
301.6934	-2.051	57493.321	1.5	D5S2(7S)4P	90629.902	1.5	4P (3P)4S	303.7843	-3.369	104873.230	3.5	5D (5D)4D
301.7257	-3.250	104119.710	7.5	4D (3H)2K	70986.677	6.5	4P (11)2K	303.8547	-3.073	99573.225	4.5	5S (3F)4F
301.7987	-4.436	60270.339	3.5	D5S2(7S)4D	93395.360	2.5	4P (3F)4F	303.8777	-2.162	31387.948	2.5	D6S (3D)4D
301.8213	-3.334	33466.463	4.5	D6S (1G)2G	66589.008	4.5	4P (3G)4H	303.9243	-3.100	105155.090	4.5	4D (3F)4G
301.8678	-3.977	50187.813	3.5	D6S (3F)4F	83305.251	3.5	4P (1F)2G	303.9400	-3.838	103878.340	7.5	4D (3H)4I
301.8748	-4.921	102543.648	1.5	6S (5D)6D	69426.980	0.5	4SP(5S)4P	303.9589	-3.640	105244.180	2.5	4D (3F)4G
301.9118	-2.043	105763.270	5.5	4D (3F)2H	72650.658	4.5	4P (5D)4P	303.9594	-3.633	57411.065	2.5	D5S2(7S)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
303.9635	-3.055	98445.400	4.5	5S (3H)4H	65556.280	4.5	4P (3H)2H	306.3881	-2.826	60270.339	3.5	D5S2(7S)4D
303.9789	-4.403	60441.033	1.5	D5S2(7S)4D	93328.480	1.5	4P (3F)4F	306.5316	-1.653	31811.822	2.5	D7 (3D)2F
304.0181	-4.482	60445.275	2.5	D5S2(7S)4D	93328.480	1.5	4P (3F)4F	306.6194	-3.335	31483.176	3.5	D6S (3D)4G
304.0229	-4.861	104315.370	6.5	4D (3H)2K	71432.680	7.5	4P (11)2K	306.6292	-4.178	105127.770	2.5	5D (5D)4D
304.0845	-2.664	33501.253	3.5	D6S (1G)2G	66377.283	3.5	4P (3G)4F	306.6747	-2.659	98294.401	1.5	5S (3H)4H
304.1051	-3.493	105524.461	4.5	4D (3F)4H	72651.876	3.5	4P (3D)4F	306.7779	-4.920	104630.430	1.5	5D (5D)6F
304.1137	-4.877	98568.912	3.5	5S (3H)4H	65696.038	4.5	4P (3G)4G	306.8757	-2.433	33501.253	3.5	D6S (1G)2G
304.1535	-2.846	99332.102	4.5	5D (3H)2H	66463.528	5.5	4P (3G)4H	306.9110	-3.314	105589.420	3.5	4D (3F)4H
304.1832	-3.130	98445.400	4.5	5S (3H)4H	66463.528	5.5	4P (3G)4H	307.0315	-4.618	105211.140	4.5	5D (5D)4G
304.2009	-4.553	104828.160	2.5	5D (5D)6D	71964.710	2.5	4P (3D)4P	307.0430	-4.434	105211.140	4.5	5D (5D)4G
304.2240	-2.499	60270.339	3.5	D5S2(7S)4D	93129.900	3.5	4P (3F)4D	307.0577	-2.602	31483.176	3.5	D6S (3D)4D
304.2310	-4.157	105211.140	4.5	5D (5D)4G	72352.024	3.5	4P (3D)4F	307.0691	-1.707	30388.542	4.5	D6S (3G)2G
304.3304	-4.384	36252.918	2.5	D6S (3D)2D	69102.380	2.5	4SP(5S)4P	307.0723	-4.124	98568.912	3.5	5S (3H)4H
304.4840	-1.660	31999.048	3.5	D7 (5D)2F	64831.943	4.5	4P (3F)2G	307.1125	-0.951	80177.975	1.5	5S (5D)4P
304.5323	-2.189	44915.046	3.5	D6S (1F)2F	77742.730	2.5	4P (1D)2F	307.1296	-2.015	98244.045	2.5	5S (3F)4F
304.5709	-2.541	99824.045	2.5	5S (3F)4F	67000.517	2.5	4P (3F)2D	307.1655	-2.597	33466.463	4.5	D6S (1G)2G
304.6670	-1.879	44929.550	2.5	D6S (1F)2F	77742.730	2.5	4P (1D)2F	307.2764	-4.019	105589.420	3.5	4D (3G)4G
304.7599	-2.129	31483.176	3.5	D6S (3D)4D	64286.345	3.5	4P (3F)2F	307.3427	-1.449	102842.119	4.5	5S (3G)4G
304.7609	-2.187	105155.090	4.5	4D (3F)4G	72352.024	3.5	4P (3D)4F	307.4699	-2.543	98445.400	4.5	5S (3H)4H
304.7725	-3.939	105063.550	5.5	4D (3F)4G	72261.729	5.5	4P (1G)2H	307.5246	-2.161	30764.485	3.5	D6S (3G)2G
304.7840	-4.381	105230.290	0.5	5D (5D)4D	72829.711	0.5	4P (3D)4D	307.5246	-4.239	105127.770	2.5	5D (5D)4D
304.8387	-2.974	105414.180	2.5	4D (3F)4G	72619.490	2.5	4P (3D)4D	307.5246	-4.239	105127.770	2.5	5D (5D)4D
304.8991	-0.789	80177.975	1.5	5S (5D)4D	47389.779	1.5	4P (5D)4P	307.5609	-2.311	99093.452	5.5	5S (3H)2H
304.9183	-2.259	32909.905	5.5	D6S (1I)2I	65696.038	4.5	4P (3G)4G	307.5610	-2.907	103155.090	4.5	4D (3F)4G
304.9276	-4.354	104828.160	2.5	5D (5D)6D	72043.026	1.5	4P (3D)4P	307.5610	-2.907	103155.090	4.5	4D (3F)4G
304.9574	-3.733	27620.412	2.5	D6S (3F)2F	60402.342	2.5	4P (3F)4P	307.6235	-3.791	105589.420	3.5	4D (3F)4H
305.1007	-4.014	98130.131	6.5	5S (3H)4H	65363.595	5.5	4P (3H)2H	307.6435	-0.561	79885.493	2.5	5S (5D)4P
305.1401	-3.094	105414.180	2.5	4D (3F)4G	72651.876	3.5	4P (3D)4D	307.6793	-4.748	54275.637	2.5	D5S2(7S)4G
305.2607	-3.058	98445.400	4.5	5S (3H)4H	65696.038	4.5	4P (3G)4G	307.6915	-2.554	98568.912	3.5	5S (3H)4H
305.2716	-2.553	105398.852	5.5	4D (3F)4H	72650.658	4.5	4P (3D)4F	307.6915	-2.554	98568.912	3.5	5S (3H)4H
305.3191	-1.587	99332.102	4.5	5S (3H)2H	66389.008	4.5	4P (3G)4H	307.7170	-0.755	32875.646	6.5	D6S (1I)2I
305.3414	-3.282	104705.420	3.5	5D (5D)6D	71964.710	2.5	4P (3D)4P	307.7875	-2.732	54063.459	0.5	D6S (3F)4P
305.3655	-2.979	98294.401	5.5	5S (3H)4H	65556.280	4.5	4P (3H)2H	307.8313	-4.709	105127.770	2.5	5D (5D)4D
305.4347	-6.424	26932.748	0.5	D6S (3F)2P	59663.456	1.5	4P (3F)4S	307.8443	-2.570	31811.822	2.5	D7 (5D)2F
305.5068	-2.968	31364.440	1.5	D6S (3D)4D	64087.418	2.5	4P (3F)4G	307.8680	-0.279	79439.467	3.5	5S (5D)4P
305.5352	-2.133	80346.016	0.5	5S (5D)4D	47626.076	0.5	4P (5D)4P	307.9358	-3.142	33466.463	4.5	D6S (1G)2G
305.5873	-2.133	98294.401	5.5	5S (3H)4H	65580.041	5.5	4P (3G)4G	307.9994	-3.722	60441.033	1.5	D5S2(7S)4D
305.6680	-4.331	105230.290	0.5	5D (5D)4D	72524.566	1.5	4P (3D)4D	308.0397	-2.071	60445.275	2.5	D5S2(7S)4D
305.6804	-1.111	32875.646	6.5	D6S (1I)2I	65580.041	5.5	4P (3G)4G	308.0419	-2.470	32909.905	5.5	D6S (1I)2I
305.7265	-3.131	31387.948	2.5	D6S (3D)4D	64087.418	2.5	4P (3F)4G	308.1137	-3.828	105589.420	3.5	4D (3F)4H
305.8354	-1.706	99688.337	3.5	5S (1F)4F	71432.680	7.5	4P (11)2K	308.1181	-3.874	103878.340	7.5	4D (3H)4I
305.8428	-3.513	104119.710	7.5	4D (3H)2K	67000.517	2.5	4P (3F)2D	308.2396	-4.776	105524.461	4.5	4D (3F)4H
305.8921	-4.959	99093.452	5.5	5S (3H)2H	66411.686	6.5	4P (3G)4H	308.2417	-2.664	98445.400	4.5	5S (3H)4H
305.9865	-1.253	105763.270	5.5	4D (3F)2H	73091.590	4.5	4P (1G)2G	308.2662	-2.854	33501.253	3.5	D6S (1G)2G
305.9880	-2.841	105291.010	3.5	4D (3F)4G	72619.490	2.5	4P (3D)4D	308.3015	-2.250	31999.048	3.5	D7 (5D)2F
306.0010	-2.841	32909.905	5.5	D6S (1I)2I	65580.041	5.5	4P (3G)4G	308.3141	-3.050	60270.339	3.5	D5S2(7S)4D
306.0423	-4.922	104630.430	1.5	5D (5D)6P	71964.710	2.5	4P (3D)4P	308.3979	-4.993	104380.940	3.5	5D (5D)6F
306.0981	-2.353	99332.102	4.5	5S (3H)2H	66672.334	3.5	4P (3G)4H	308.4296	-1.968	105063.550	5.5	4D (3F)4G
306.1334	-4.644	54273.641	4.5	D5S2(7S)4G	86929.649	3.5	4P (3F)4D	308.4738	-3.336	103414.180	2.5	4D (3F)4G
306.1622	-2.909	31387.948	2.5	D6S (3D)4D	64040.886	3.5	4P (3F)4G	308.5711	-3.312	103414.180	2.5	4D (3F)4G
306.2232	-4.914	54283.220	3.5	D5S2(7S)4G	86929.649	3.5	4P (3F)4D	308.9384	-1.655	38164.194	2.5	D6S (1D)2D
306.2237	-0.735	32909.905	5.5	D6S (1I)2I	65556.280	4.5	4P (3H)2H	308.9384	-1.655	38164.194	2.5	D6S (1D)2D
306.2390	-2.245	99918.569	1.5	5S (3F)4F	67273.826	1.5	4P (3F)2D	309.1979	-3.314	60270.339	3.5	D5S2(7S)4D
306.2802	-3.378	105291.010	3.5	4D (3F)4G	72650.658	4.5	4P (3D)4F	309.3313	-4.225	102842.119	4.5	5S (3G)4G
306.2916	-3.140	105291.010	3.5	4D (3F)4G	72651.876	3.5	4P (3D)4D	309.4381	-2.626	105398.852	5.5	4D (3F)4H
306.3062	-3.079	98568.912	3.5	5S (3H)4H	65931.334	3.5	4P (3G)4G	309.6295	-1.731	31999.048	3.5	D7 (5D)2F
306.3781	-0.986	99093.452	5.5	5S (3H)2H	66463.528	5.5	4P (3G)4H	309.6836	-2.137	98294.401	5.5	5S (3H)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
309.7417	-1.982	31811.822	2.5	D7 (5D)2F	64087.418	2.5	4P (3F)4G	312.1614	-3.537	54904.222	3.5	D6S (3F)2F
309.7487	-3.281	105291.010	3.5	4D (3F)4G	73016.147	3.5	4P (1G)2F	312.2260	-4.879	103983.510	3.5	5S (3G)2G
309.7599	-3.244	30388.542	4.5	D6S (3G)2G	62662.244	5.5	4P (3H)2I	312.2881	-3.103	60441.033	1.5	D5S2(7S)4D
309.7776	-4.029	54275.637	2.5	D5S2(7S)4G	86547.490	2.5	4P (1F)2F	312.2911	-3.265	60270.339	3.5	D5S2(7S)4D
309.7869	-3.478	105414.180	2.5	4D (3F)4G	73143.288	3.5	4P (1G)2G	312.2924	-2.648	105763.270	5.5	4D (3F)2H
309.7920	-3.888	102584.963	5.5	5S (3G)4G	70314.604	4.5	4P (3G)2G	312.2942	-4.359	105155.090	4.5	4D (3F)4G
309.8504	-4.963	54283.220	3.5	D5S2(7S)4G	86547.490	2.5	4P (3F)2D	312.3725	-1.682	60270.339	3.5	D5S2(7S)4D
309.8613	-4.327	60384.370	0.5	D5S2(7S)4D	92647.510	1.5	4P (3F)4D	312.5865	-1.923	98445.400	4.5	5S (3H)4H
309.9458	-3.220	60441.033	1.5	D5S2(7S)4D	72619.490	2.5	4P (3D)4D	312.6058	-2.080	98568.912	3.5	5S (3H)4H
309.9866	-4.561	60445.275	2.5	D5S2(7S)4D	92695.374	2.5	4P (3P)2D	312.7303	-3.966	84266.556	3.5	4D (3D)6F
310.1209	-3.998	105291.010	3.5	4D (3F)4G	73034.881	2.5	4P (3F)4D	312.9009	-2.610	31999.048	3.5	D7 (5D)2F
310.1840	-2.907	33466.463	4.5	D6S (1G)2G	65696.038	4.5	4P (3G)4G	313.0095	-4.902	105127.770	2.5	5D (5D)4D
310.1889	-2.251	31811.822	2.5	D7 (5D)2F	64040.886	3.5	4P (3F)4G	313.0905	-3.282	30388.542	4.5	D6S (3G)2G
310.2274	-4.385	105414.180	2.5	4D (3F)4G	73189.110	1.5	4P (3D)2P	313.0952	-3.032	60384.370	0.5	D5S2(7S)4D
310.3256	-4.132	57411.065	2.5	D5S2(7S)4P	89625.940	1.5	4SP(5P)6P	313.1395	-3.650	30764.485	3.5	D6S (3G)2G
310.3458	-3.831	104863.430	5.5	5D (5D)4G	72650.658	4.5	4P (3D)4F	313.1395	-3.650	30764.485	3.5	D6S (3G)2G
310.3811	-4.276	54273.641	4.5	D5S2(7S)4G	86482.750	3.5	4P (1F)2F	313.1724	-2.072	32909.905	5.5	D6S (1I)2I
310.4065	-2.275	60441.033	1.5	D5S2(7S)4D	92647.510	1.5	4P (3F)4D	313.2162	-3.549	60441.033	1.5	D5S2(7S)4D
310.4474	-3.629	60445.275	2.5	D5S2(7S)4D	86482.750	3.5	4P (3F)4D	313.2579	-3.706	60445.275	2.5	D5S2(7S)4D
310.4735	-4.260	54283.220	3.5	D5S2(7S)4G	92647.510	1.5	4P (3F)4D	313.3050	-1.889	31364.440	1.5	D6S (3D)4D
310.4745	-3.848	105291.010	3.5	4D (3F)4G	73091.590	4.5	4P (1G)2G	313.3733	-2.700	60270.339	3.5	D5S2(7S)4D
310.5167	-1.684	31364.440	1.5	D6S (3D)4D	63559.488	0.5	4P (3F)4D	313.4170	-2.893	33466.463	4.5	D6S (1G)2G
310.5192	-4.305	33501.253	3.5	D6S (1G)2G	65696.038	4.5	4P (3G)4G	313.4178	-3.084	54870.528	2.5	D6S (3F)2F
310.5497	-3.635	98568.912	3.5	5S (3H)4H	66377.283	3.5	4P (3G)4F	313.4224	-1.050	98568.912	3.5	5S (3H)4H
310.5554	-1.722	31368.450	0.5	D6S (3D)4D	63559.488	0.5	4P (3F)4D	313.4983	-2.070	60441.033	1.5	D5S2(7S)4D
310.6565	-1.675	30764.485	3.5	D6S (3G)2G	62945.038	3.5	4P (3F)4D	313.5360	-1.135	31387.948	2.5	D6S (3D)4D
310.7801	-4.984	103600.440	6.5	4D (3H)4H	71432.680	7.5	4P (1I)2K	313.5478	-4.539	60270.339	3.5	D5S2(7S)4D
310.8573	-2.496	105763.270	5.5	4D (3F)2H	73603.500	5.5	4P (1I)2H	313.5587	-1.883	98294.401	5.5	5S (3H)4H
310.8800	-2.276	60445.275	2.5	D5S2(7S)4D	92426.703	3.5	4P (3F)2G	313.6472	-3.207	60441.033	1.5	D5S2(7S)4D
310.8876	-1.768	60270.339	3.5	D5S2(7S)4D	92426.980	4.5	4SP(5G)4F	313.7305	-2.393	54904.222	3.5	D6S (3F)2F
310.9738	-2.845	105291.010	3.5	4D (3F)4G	73143.288	3.5	4P (1G)2G	313.7492	-3.881	54904.222	3.5	D6S (3F)2F
311.0588	-4.155	105155.090	4.5	4D (3F)4G	73016.147	3.5	4P (1G)2F	313.8178	-1.000	98445.400	4.5	5S (3H)4H
311.1200	-3.761	57493.321	1.5	D5S2(7S)4P	89625.940	1.5	4SP(5P)6P	313.8178	-1.000	98445.400	4.5	5S (3H)4H
311.1940	-4.420	84424.370	1.5	4D (5D)6F	52299.390	2.5	4SP(7S)8P	313.8501	-1.590	103983.510	3.5	D5S2(7S)4D
311.3045	-2.838	33466.463	4.5	D6S (1G)2G	65580.041	5.5	4P (3G)4G	313.9159	-3.436	60270.339	3.5	D5S2(7S)4D
311.4297	-1.460	31364.440	1.5	D6S (3D)4D	63465.109	1.5	4P (3F)4D	313.9679	-3.164	60384.370	0.5	D5S2(7S)4D
311.4686	-1.831	31368.450	0.5	D6S (3D)4D	63465.109	1.5	4P (3F)4D	314.0071	-3.616	105589.420	3.5	4D (3F)4H
311.5350	-2.512	33466.463	4.5	D6S (1G)2G	65556.280	4.5	4P (3H)2H	314.0071	-3.616	105589.420	3.5	4D (3F)4H
311.5490	-2.513	31999.048	3.5	D7 (5D)2F	64087.418	2.5	4P (3F)4G	314.0476	-3.250	60441.033	1.5	D5S2(7S)4D
311.5727	-4.928	104705.420	3.5	5D (5D)6D	72619.490	2.5	4P (3D)4D	314.0588	-3.137	60384.370	0.5	D5S2(7S)4D
311.6579	-1.507	31387.948	2.5	D6S (3D)4D	63465.109	1.5	4P (3F)4D	314.0694	-0.880	98294.401	5.5	5S (3H)4H
311.7363	-2.805	60384.370	0.5	D5S2(7S)4D	92453.460	0.5	4P (3F)4D	314.0894	-2.353	60445.275	2.5	D5S2(7S)4D
311.7458	-2.534	98445.400	4.5	5S (3H)4H	66377.283	3.5	4P (3G)4F	314.2223	-4.563	13474.411	2.5	D7 (5D)4P
311.7907	-3.077	105155.090	4.5	4D (3F)4G	73091.590	4.5	4P (1G)2G	314.2223	-4.563	13474.411	2.5	D7 (5D)4P
311.8291	-2.139	60270.339	3.5	D5S2(7S)4D	92329.890	2.5	4SP(5G)4F	314.4036	-3.443	105763.270	5.5	4D (3F)2H
311.8550	-2.419	99573.225	4.5	5S (3F)4F	67516.332	5.5	4P (3G)2H	314.4203	-3.342	105398.852	5.5	4D (3F)4H
311.8731	-2.598	33501.253	3.5	D6S (1G)2G	65556.280	4.5	4P (3H)2H	314.4386	-3.381	105763.270	5.5	4D (3F)2H
311.8866	-2.625	104315.370	6.5	4D (3H)2K	72261.729	5.5	4P (1G)2H	314.4752	-1.633	105763.270	5.5	4D (3F)2H
311.8875	-4.917	104705.420	3.5	5D (5D)6D	72651.876	3.5	4P (1G)2H	314.5276	-2.259	60441.033	1.5	D5S2(7S)4D
311.9468	-3.956	57578.484	0.5	D5S2(7S)4P	89625.940	1.5	4SP(5P)6P	314.5418	-6.863	30388.542	4.5	D6S (3G)2G
311.9550	-3.312	98568.912	3.5	5S (3H)4H	66522.304	2.5	4P (3G)4F	314.5696	-1.912	60445.275	2.5	D5S2(7S)4D
311.9852	-4.500	79885.493	2.5	5S (5D)4D	111929.000	2.5	290DD	314.6189	-4.486	105244.461	4.5	4D (3F)4H
311.9897	-4.564	27620.412	2.5	D6S (3F)2F	59663.456	1.5	4P (3P)4S	314.6397	-4.191	105524.461	4.5	4D (3F)4H
312.0015	-2.371	31999.048	3.5	D7 (5D)2F	64040.886	3.5	4P (3F)4G	314.6408	-1.925	98445.400	4.5	5S (3H)4H
312.0115	-2.542	77230.900	4.5	D5S2(7S)2H	109271.710	5.5	4SP(3I)2I	314.6755	-1.540	30388.542	4.5	D6S (3G)2G
312.0837	-4.341	57411.065	2.5	D5S2(7S)4P	89444.458	2.5	4SP(5P)6P	314.8426	-4.163	57578.484	0.5	D5S2(7S)4D
312.1174	-3.772	60270.339	3.5	D5S2(7S)4D	92300.277	4.5	4SP(5D)6F	314.8505	-8.071	20830.582	2.5	D6S (3P)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
314.8593	-3.825	80177.975	1.5	5S (5D)4D	111929.000	2.5	290DD	317.6831	-8.518	20830.582	2.5	D6S (3P)4P	52299.390	2.5	4SP(7S)8P
314.8854	-4.569	60270.339	3.5	D5S2(7S)4D	92018.729	2.5	4SP(5D)6F	317.7079	-4.307	60384.370	0.5	D6S2(7S)4D	91850.722	0.5	4SP(5D)6F
314.9191	-2.329	103983.510	3.5	5S (3G)2G	72238.513	2.5	4P (3G)4F	317.7252	-2.875	31364.440	1.5	D6S (3D)4D	62945.038	3.5	4P (3F)4D
314.9250	-4.130	84326.912	2.5	4D (5D)6P	52582.510	3.5	4FP(7S)8P	317.7532	-0.931	31483.176	3.5	D6S (3D)4D	62945.038	3.5	4P (3F)4D
315.1827	-0.775	98130.131	6.5	5S (3H)4H	66411.686	6.5	4P (3G)4H	317.7604	-2.944	31811.822	2.5	D7 (5D)2F	62829.075	0.5	4P (3F)4D
315.1977	-4.316	57411.065	2.5	D5S2(7S)4P	89128.561	3.5	4SP(5P)6P	317.7657	-2.613	31368.450	0.5	D6S (3D)4D	62829.075	0.5	4P (3F)4D
315.2826	-4.774	57411.065	2.5	D5S2(7S)4P	92154.165	3.5	4SP(5D)6F	317.7715	-2.831	105063.550	5.5	4D (3F)4G	73603.500	5.5	4P (11)2H
315.3125	-1.774	98294.401	5.5	5S (3H)4H	89119.457	2.5	5P (5D)6D	317.8961	-4.665	103497.810	2.5	5S (3F)2F	694937.800	4.5	4SP(3I)4H
315.4202	-0.527	30388.542	4.5	D6S (3G)2G	62083.108	4.5	4P (3H)2G	317.9503	-0.902	38164.194	2.5	D6S2(7S)4F	69606.552	3.5	4P (3G)2F
315.4589	-4.361	83990.063	1.5	4D (5D)6D	52299.390	2.5	4SP(7S)8P	318.0149	-1.133	38214.507	1.5	D6S (1D)2D	69650.484	2.5	4P (3G)2F
315.5119	-2.727	105288.847	6.5	4D (3F)4H	73603.500	5.5	4P (11)2H	318.1262	-4.488	57578.484	0.5	D5S2(7S)4F	89003.460	0.5	4P (3P)2S
315.5249	-4.318	84266.556	3.5	4D (5D)6P	52582.510	3.5	4SP(7S)8P	318.1457	-3.505	73393.745	4.5	D5S2(7S)4F	104816.800	5.5	4SP(3I)4H
315.5953	-2.433	30388.542	4.5	D6S (3G)2G	62065.521	3.5	4P (3F)4F	318.2652	-3.457	58631.531	4.5	D6S (1G)2G	90042.779	4.5	4P (3F)4G
315.5955	-2.092	54870.528	2.5	D6S (3F)2F	86547.490	2.5	4P (1F)2F	318.2810	-3.948	60441.033	1.5	D5S2(7S)4D	91850.722	0.5	4SP(5D)6F
315.6076	-3.819	77230.900	4.5	D5S2(7S)2H	108906.640	3.5	4SP(3G)4H	318.3070	-5.333	30764.485	3.5	D6S (3G)2G	62171.615	3.5	4SP(7S)6P
315.6301	-3.977	54870.528	2.5	D6S (3F)2F	86543.974	1.5	4P (3P)4D	318.3114	-2.581	13673.185	1.5	D7 (5D)4F	45079.879	2.5	4P (5D)4F
315.6987	-1.985	98130.131	6.5	5S (3H)4H	66463.528	5.5	4P (3G)4H	318.3407	-4.010	105155.090	4.5	4D (3F)4G	73651.282	4.5	4P (11)2H
315.8315	-4.607	31811.822	2.5	D7 (5D)2F	63465.109	1.5	4P (3F)4D	318.3773	-4.728	77230.900	4.5	D5S2(7S)2H	108631.090	3.5	4SP(3G)4G
315.8886	-3.280	105398.852	5.5	4D (3F)4H	73751.282	4.5	4P (11)2H	318.4439	-2.889	30764.485	3.5	D6S (3G)2G	62158.110	4.5	4P (3F)4F
315.9244	-4.818	60445.275	2.5	D5S2(7S)4D	92089.260	3.5	4SP(5G)4H	318.4843	-3.928	100492.020	3.5	5S (3F)2F	69102.380	2.5	4SP(5S)4P
315.9320	-2.812	54904.222	3.5	D6S (3F)2F	86547.490	2.5	4P (1F)2F	318.5104	-2.780	30764.485	3.5	D6S (3G)2G	62151.561	2.5	4P (3F)4F
315.9325	-3.594	33466.463	4.5	D6S (1G)2G	65109.679	3.5	4P (3F)2G	318.5317	-3.290	13904.824	0.5	D7 (5D)4F	45289.801	1.5	4P (5D)4F
315.9476	-3.465	54902.315	1.5	D6S (3P)2P	86543.974	1.5	4P (3P)4D	318.6738	-1.683	13673.185	1.5	D7 (5D)4F	45044.168	1.5	4P (5D)4D
316.0374	-3.756	73395.930	2.5	D5S2(7S)4F	105028.600	3.5	4SP(3I)4H	318.7247	-1.041	33466.463	4.5	D6S (1G)2G	64831.943	4.5	4P (3F)2G
316.0492	-1.955	103983.510	3.5	5S (3G)2G	72352.024	3.5	4P (3D)4F	318.7445	-3.390	103983.510	3.5	5S (3G)2G	72619.490	2.5	4P (3F)2D
316.1072	-4.506	57493.321	1.5	D5S2(7S)4P	89119.457	2.5	5P (5D)6D	318.9157	-1.396	103608.909	4.5	5S (3G)2G	72261.729	5.5	4P (1G)2H
316.1979	-3.288	13673.185	1.5	D7 (5D)4P	45289.801	1.5	4P (5D)4F	318.9923	-4.686	77230.900	4.5	D5S2(7S)2H	108570.560	4.5	4SP(3G)4G
316.2418	-4.686	54870.528	2.5	D6S (3F)2F	86482.750	3.5	4P (1F)2F	319.0019	-4.244	103600.440	6.5	4D (3H)4H	72261.729	5.5	4P (1G)2H
316.2798	-1.145	33501.253	3.5	D6S (1G)2G	65109.679	3.5	4P (3F)2G	319.0139	-3.147	30388.542	4.5	D6S (3G)2G	61726.077	3.5	4P (3P)4D
316.3094	-3.167	13474.411	2.5	D7 (5D)4P	45079.879	2.5	4P (5D)4F	319.0294	-3.050	78725.790	1.5	5S (5D)6D	44789.779	1.5	4P (5D)4P
316.3865	-2.856	31364.440	1.5	D6S (3D)4D	62962.205	1.5	4P (3P)4D	319.0616	-4.805	103983.510	3.5	5S (3G)2G	72650.658	4.5	4P (3D)4F
316.4267	-3.096	31368.450	0.5	D6S (3D)4D	62962.205	1.5	4P (3P)4D	319.0740	-1.833	103983.510	3.5	5S (3G)2G	72651.876	3.5	4P (3D)4D
316.5793	-1.863	54904.222	3.5	D6S (3F)2F	86482.750	3.5	4P (1F)2F	319.0773	-0.657	99332.102	4.5	5S (3H)2H	68000.788	4.5	4P (3G)2H
316.5804	-3.385	77230.900	4.5	D5S2(7S)2H	108809.310	5.5	4SP(3G)4H	319.0836	-2.112	33501.253	3.5	D6S (1G)2G	64831.943	4.5	4P (3F)2G
316.5934	-3.449	60441.033	1.5	D5S2(7S)4D	92018.729	2.5	4SP(5D)6F	319.1371	-2.938	31364.440	1.5	D6S (3D)4D	62689.880	2.5	4P (3P)4D
316.5976	-0.376	99093.452	5.5	5S (3H)2H	67516.332	5.5	4P (3G)2H	319.1720	-4.181	105288.847	6.5	4D (3F)4H	73969.767	5.5	4P (11)2I
316.6221	-4.060	31387.948	2.5	D6S (3D)4D	62962.205	1.5	4P (3P)4D	319.2019	-4.966	105288.847	6.5	4D (3F)4H	73969.767	5.5	4P (11)2I
316.6301	-4.386	60445.275	2.5	D5S2(7S)4D	92018.729	2.5	4SP(5D)6F	319.2066	-2.154	30764.485	3.5	D6S (3G)2G	62083.108	4.5	4P (3H)2G
316.6403	-1.019	99573.225	4.5	5S (3F)4F	68000.788	4.5	4P (3G)2H	319.2713	-1.432	105063.550	5.5	4D (3F)4G	73751.282	4.5	4P (11)2H
316.6672	-2.932	13474.411	2.5	D7 (5D)4P	45044.168	1.5	4P (5D)4D	319.2909	-1.875	13474.411	2.5	D7 (5D)4P	44784.761	2.5	4P (5D)4D
316.6760	-4.497	47674.721	1.5	D7 (5D)2D	79243.600	1.5	4P (1D)2P	319.3768	-3.283	31387.948	2.5	D6S (3D)4D	62689.880	2.5	4P (3P)4D
316.6809	-2.911	98568.912	3.5	5S (3H)4H	67000.517	2.5	4P (3P)2D	319.3799	-1.733	13904.824	0.5	D7 (5D)4F	45206.450	0.5	4P (5D)4D
316.7856	-2.845	78525.407	2.5	5S (5D)6D	46967.444	2.5	4P (5D)4P	319.3859	-1.509	30764.485	3.5	D6S (3G)2G	62065.521	3.5	4P (3F)4F
316.7857	-0.729	30764.485	3.5	D6S (3G)2G	62322.431	3.5	4P (3H)2G	319.5543	-6.297	30764.485	3.5	D6S (3G)2G	62049.025	2.5	4SP(7S)6P
316.7943	-2.573	31387.948	2.5	D6S (3D)4D	62945.038	3.5	4P (3F)4D	319.6070	-2.219	13474.411	2.5	D7 (5D)4F	44753.799	3.5	4P (5D)4F
316.8495	-2.153	105155.090	4.5	4D (3F)4G	73603.500	5.5	4P (11)2H	319.6117	-4.371	73393.745	4.5	D5S2(7S)4F	42114.818	4.5	4P (5D)6F
316.9687	-2.588	105291.010	3.5	4D (3F)4G	73751.282	4.5	4P (11)2H	319.6628	-3.297	31999.048	3.5	D7 (5D)2F	46272.976	2.5	4P (3F)4D
317.0337	-2.530	13673.185	1.5	D7 (5D)4P	45206.450	0.5	4P (5D)4D	319.7005	-2.024	78237.685	3.5	5S (5D)6D	46967.444	2.5	4P (5D)4P
317.0506	-3.727	60394.370	0.5	D5S2(7S)4D	91915.950	1.5	4SP(5D)6F	319.8170	-3.619	58631.531	4.5	D6S (1G)2G	89890.373	3.5	4P (3F)4G
317.1308	-4.383	104174.270	5.5	4D (3H)4I	72650.658	4.5	4P (3D)4F	319.8371	-2.442	103608.909	4.5	5S (3G)2G	72352.024	3.5	4P (3D)4F
317.2383	-4.518	83812.316	2.5	4D (5D)6D	52299.390	2.5	4SP(7S)8P	319.8771	-3.610	77230.900	4.5	D5S2(7S)2H	108483.870	5.5	4SP(3G)4G
317.2664	-3.991	57493.321	1.5	D5S2(7S)4P	89003.460	0.5	4P (3P)2S	320.1144	-4.149	83812.316	2.5	4D (5D)6D	52582.510	3.5	4SP(7S)8P
317.4700	-5.471	103751.660	5.5	4D (3H)4H	72261.729	5.5	4P (1G)2H	320.1728	-3.343	58666.258	3.5	D6S (1G)2G	89890.373	3.5	4P (3F)4G
317.5067	-2.132	38164.194	2.5	D6S (1D)2D	69650.484	2.5	4P (3G)2F	320.2363	-3.468	78843.992	0.5	5S (5D)6D	47626.076	0.5	4P (5D)4P
317.5851	-2.300	103608.909	4.5	5S (3G)2G	72130.390	4.5	4P (1G)2H	320.3514	-3.337	31483.176	3.5	D6S (3D)4D	62689.880	2.5	4P (3P)4D
317.6214	-4.361	60441.033	1.5	D5S2(7S)4D	91915.950	1.5	4SP(5D)6F	320.3739	-2.598	48039.090	2.5	D7 (5D)2D	79243.600	1.5	4P (1D)2P
317.6642	-4.191	60445.275	2.5	D5S2(7S)4D	91915.950	1.5	4SP(5D)6F	320.4213	-4.471	44929.550	2.5	D6S (1F)2F	76129.446	1.5	4P (1S)2P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
320.4339	-3.550	30388.542	4.5	D6S (3G)2G	61587.214	5.5	4P (3H)4I	323.9866	-3.400	31387.948	2.5	D6S (3D)4D
320.4457	-4.754	73637.340	1.5	D5S2(7S)4F	42439.822	0.5	4P (5D)6F	324.1445	-2.389	100492.020	3.5	5S (3F)2F
320.5710	-3.417	105155.090	4.5	4D (3F)4G	73969.767	5.5	4P (1I)2I	324.1583	-3.369	103983.510	3.5	5S (3G)2G
320.7570	-2.816	47674.721	1.5	D7 (5D)2D	78841.960	0.5	4P (1D)2F	324.1685	-2.482	31483.176	3.5	D6S (3D)4D
320.8584	-4.422	73492.215	3.5	D5S2(7S)4F	42334.822	2.5	4P (5D)6F	324.1859	-4.214	102802.312	2.5	6S (5D)4D
320.8654	-4.237	73393.745	4.5	D5S2(7S)4F	42237.033	3.5	4P (5D)6F	324.2029	-4.466	103265.694	0.5	6S (5D)4D
320.8966	-4.984	103118.400	1.5	6S (5D)4D	71964.710	2.0	4P (3D)4D	324.3235	-3.170	60384.370	0.5	D5S2(7S)4D
320.9306	-2.662	31811.822	2.5	D7 (5D)2F	62962.205	1.5	4P (3F)2D	324.4197	-3.045	60384.370	0.5	D5S2(7S)4D
320.9610	-2.520	36126.387	1.5	D6S (3D)2D	72773.826	1.5	4P (3F)2D	324.4507	-2.889	47674.721	1.5	D7 (5D)2D
320.9979	-3.971	83726.364	4.5	4D (5D)6D	52582.510	3.5	4P (3G)2F	324.5044	-4.579	105414.180	2.5	4D (3F)4G
321.0040	-1.932	100749.810	2.5	5S (3F)2F	69606.552	3.5	4P (5D)4F	324.5795	-2.607	60270.339	3.5	D5S2(7S)4D
321.0444	-1.694	13904.824	0.5	D7 (5D)4P	108373.800	3.5	260DD	324.5987	-3.475	57411.065	2.5	D5S2(7S)4F
321.0827	-2.381	78525.407	2.5	5S (5D)6D	45044.168	1.5	4P (3G)2F	324.7175	-1.149	31364.440	1.5	D6S (3D)4D
321.1076	-2.685	31811.822	2.5	D7 (5D)2F	47389.779	1.5	4P (3F)4F	324.7389	-1.923	33501.233	3.5	D6S (1G)2G
321.1302	-3.901	83713.536	3.5	4D (5D)6D	62945.038	3.5	4P (3F)4F	324.7539	-3.895	31387.948	2.5	D6S (3D)4D
321.2017	-1.483	30388.542	4.5	D6S (3G)2G	52582.510	3.5	4SP(7S)8P	324.8130	-3.969	98294.401	5.5	5S (3H)4H
321.3309	-1.307	13673.185	1.5	D7 (5D)4P	44784.761	2.5	4P (3H)4I	324.9208	-3.697	60441.033	1.5	D5S2(7S)4D
321.4402	-2.451	103751.660	5.5	4D (3H)4H	72650.658	4.5	4P (3D)4F	324.9656	-1.962	31387.948	2.5	D6S (3D)4D
321.4535	-2.960	78725.790	1.5	5S (5D)6D	47626.076	0.5	4P (5D)4P	324.9915	-2.433	31364.440	1.5	D6S (3D)4D
321.4575	-1.106	100749.810	2.5	5S (3F)2F	69650.484	2.5	4P (3G)2F	325.0113	-4.240	102802.312	2.5	6S (5D)4D
321.4845	-4.339	105063.550	5.5	4D (3F)4G	73966.832	6.5	4P (1I)2I	325.0174	-4.650	60441.033	1.5	D5S2(7S)4D
321.4847	-4.399	103265.694	0.5	6S (5D)4D	72168.998	1.5	4P (1I)2I	325.0339	-3.595	31368.450	0.5	D6S (3D)4D
321.5148	-2.565	105063.550	5.5	4D (3F)4G	73969.767	5.5	4P (3G)2H	325.1290	-3.175	30764.485	3.5	D6S (3G)2G
321.5264	-1.915	99093.452	5.5	5S (3H)2H	68000.788	4.5	4P (1G)2G	325.1349	-2.785	36252.918	2.5	D6S (3D)2D
321.6297	-4.018	104174.270	5.5	4D (3H)4I	73091.590	4.5	4P (1G)2G	325.1466	-4.319	102842.119	4.5	5S (3G)4G
321.7053	-4.124	103118.400	1.5	6S (5D)4D	72043.026	1.5	4P (3D)4F	325.5887	-2.520	7955.229	3.5	D6S (5D)4D
321.8533	-3.161	58666.258	3.5	D6S (1G)2G	89727.342	2.5	4P (3F)4G	325.6981	-2.657	78577.280	4.5	D5S2(7S)2G
321.9400	-4.655	103265.694	0.5	6S (5D)4D	7212.978	0.5	4P (3D)4F	325.7363	-2.827	31999.078	3.5	D7 (5D)2F
322.0835	-3.293	32909.905	5.5	D6S (1I)2I	63948.790	4.5	4P (3D)4F	325.7617	-3.611	31483.176	3.5	D6S (3D)4D
322.3199	-2.934	47674.721	1.5	D7 (5D)2D	78690.846	2.5	4P (3F)4G	325.7888	-1.711	44915.046	3.5	D6S (1F)2F
322.4012	-3.880	77230.900	4.5	D5S2(7S)2H	108239.200	3.5	240DD	325.8070	-3.757	105291.010	3.5	4D (3F)4G
322.4805	-3.487	32875.646	6.5	D6S (1I)2I	63876.317	5.5	4P (3F)4G	325.8093	-3.951	78183.090	3.5	D5S2(7S)2G
322.4858	-3.263	44915.046	3.5	D6S (1F)2F	75915.215	2.5	4P (3D)2F	325.8771	-1.232	31387.948	2.5	D6S (3D)4D
322.5434	-4.437	73395.930	2.5	D5S2(7S)4F	42401.302	1.5	4P (5D)6F	325.9428	-3.530	44929.550	2.5	D6S (1F)2F
322.6367	-1.895	44929.550	2.5	D6S (1F)2F	75915.215	2.5	4P (3D)2F	325.9862	-3.568	108804.667	3.5	5S (3D)4D
322.6689	-4.309	105389.420	3.5	4D (3F)4H	74606.841	2.5	4P (3D)2D	326.0225	-4.106	60384.370	0.5	D5S2(7S)4D
322.7442	-1.072	13474.421	2.5	D7 (5D)4P	44446.878	3.5	4P (5D)4D	326.0254	-4.106	31387.948	2.5	D6S (3D)4D
322.8274	-1.845	103983.510	3.5	5S (3G)2G	73016.147	3.5	4P (1G)2F	326.0631	-3.236	103751.660	5.5	4D (3H)4H
322.8373	-4.588	32909.905	5.5	D6S (1I)2I	63876.317	5.5	4P (3F)4G	326.1096	-3.689	77230.900	4.5	D5S2(7S)2H
322.8876	-2.720	30764.485	3.5	D6S (3G)2G	61726.077	3.5	4P (3F)4G	326.1496	-2.561	48039.090	2.5	D7 (5D)2D
322.9224	-4.094	103608.909	4.5	5S (3G)2G	72650.658	4.5	4P (3D)4F	326.1515	-2.561	48039.090	2.5	D7 (5D)2D
322.9351	-2.080	103608.909	4.5	5S (3G)2G	72651.876	3.5	4P (3D)4F	326.1882	-4.279	57411.065	2.5	D5S2(7S)4F
323.0504	-3.169	31999.048	3.5	D7 (5D)2F	62945.038	3.5	4P (3F)4D	326.3748	-2.248	60270.339	3.5	D5S2(7S)4D
323.1706	-1.709	31387.948	2.5	D6S (3D)4D	62322.431	3.5	4P (3H)2G	326.3884	-4.193	60441.033	1.5	D5S2(7S)4D
323.2271	-2.886	98445.400	4.5	5S (3H)4H	67516.332	5.5	4P (3G)2H	326.4336	-2.957	60445.275	2.5	D5S2(7S)4D
323.2317	-1.314	103983.510	3.5	5S (3G)2G	73054.881	2.5	4P (1G)2F	326.4631	-3.759	8391.938	2.5	D6S (5D)4D
323.2785	-1.461	33501.253	3.5	D6S (1G)2G	64425.408	2.5	4P (3F)2F	326.4763	-2.653	98130.131	6.5	5S (3H)4H
323.3625	-3.952	105414.180	2.5	4D (3F)4G	74498.057	1.5	4P (3D)2D	326.5559	-2.483	326.5559	2.483	326.5559
323.4745	-4.271	103118.400	1.5	6S (5D)4D	72212.978	0.5	4P (3D)4F	326.5912	-4.337	31364.440	1.5	D6S (3D)4D
323.4929	-4.132	7955.299	3.5	D6S (5D)4D	38858.958	2.5	4P (5D)6D	326.6261	-2.744	60441.033	1.5	D5S2(7S)4D
323.5564	-4.511	60270.339	3.5	D5S2(7S)4D	91167.937	3.5	5P (5D)8P	326.6340	-4.517	31368.450	2.5	D6S (3D)4D
323.6158	-4.139	103983.510	3.5	5S (3G)2G	73091.590	4.5	4P (1G)2G	326.6714	-3.603	60445.275	2.5	D5S2(7S)4D
323.6834	-0.932	100492.020	3.5	5S (3F)2F	69606.552	3.5	4P (3G)2F	326.6936	-2.132	30388.542	4.5	D6S (3G)2G
323.7399	-1.971	31364.440	1.5	D6S (3D)4D	62244.520	1.5	4P (3F)4F					
323.7419	-4.344	103118.400	1.5	6S (5D)4D	72238.513	2.5	4P (3D)4F					
323.7820	-1.335	31368.450	0.5	D6S (3D)4D	62244.520	1.5	4P (3F)4F					
323.8023	-3.112	36126.387	1.5	D6S (6S)2D	67000.517	2.5	4P (3F)2D					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
326.7039	-2.133	31483.176	3.5	D6S (3D)4D	62083.108	4.5	4P (3H)2G	329.5535	-3.768	60445.275	2.5	D5S2(7S)4D
326.7237	-7.062	16369.360	3.5	D7 (5D)2G	46967.444	2.5	4P (5D)4F	329.5817	-2.988	8680.454	1.5	D6S (5D)4D
326.7805	-1.555	103608.909	4.5	5S (3G)2G	73016.147	3.5	4P (1G)2F	329.6233	-3.603	30764.485	3.5	D6S (3G)2G
326.8510	-1.742	33501.253	3.5	D6S (1G)2G	64087.418	2.5	4P (3F)4G	329.6267	-9.334	22637.205	4.5	D6S (3F)4F
326.9127	-2.851	102842.119	4.5	5S (3G)4G	72261.729	5.5	4P (1G)2H	329.6836	-2.597	31999.048	3.5	D7 (5D)2F
326.9765	-1.832	33466.463	4.5	D6S (1G)2G	64040.886	3.5	4P (3F)4G	329.6852	-4.278	102584.963	5.5	5S (3G)4G
327.0156	-4.828	104174.270	5.5	4D (3H)4I	73603.500	5.5	4P (1I)2H	329.7243	-4.787	57578.484	0.5	D5S2(7S)4F
327.0427	-4.427	30388.542	4.5	D6S (3G)2G	60956.781	3.5	4P (3H)4G	329.7880	-2.159	31811.822	2.5	D7 (5D)2F
327.0630	-2.970	98568.912	3.5	5S (3H)4H	68000.788	4.5	4P (3G)2H	329.9778	-1.812	54063.459	0.5	D6S (3P)2P
327.0639	-4.007	57493.321	1.5	D5S2(7S)4F	88059.380	2.5	4FP(5P)6D	330.0076	-3.728	98294.401	5.5	5S (3H)4H
327.0902	-4.955	102802.312	2.5	6S (5D)4D	72238.513	2.5	4P (3D)4F	330.0498	-4.487	81639.260	2.5	D5S2(7S)2F
327.1193	-4.783	83136.487	3.5	4D (5D)6F	52582.510	3.5	4FP(7S)8P	330.1805	-4.175	102802.312	2.5	6S (5D)4D
327.1955	-4.640	327.1955	4.5	D6S (5D)6F	87964.650	1.5	4FP(5P)6D	330.1858	-4.428	30764.485	3.5	D6S (3G)2G
327.3490	-1.822	33501.253	3.5	D6S (1G)2G	64040.886	3.5	4P (3F)4G	330.2717	-4.300	36252.918	2.5	D6S (3D)2D
327.5884	-3.313	103608.909	4.5	5S (3G)2G	73091.590	4.5	4P (1G)2G	330.2857	-3.450	8391.1938	2.5	D6S (5F)4D
327.6186	-3.982	60384.370	0.5	D5S2(7S)4D	90898.873	1.5	4P (3F)4G	330.2859	-3.495	99918.569	1.5	5S (3F)4F
327.6639	-2.934	31811.822	2.5	D7 (5D)2F	62322.431	3.5	4P (3H)2G	330.3322	-4.931	60384.370	0.5	D5S2(7S)4D
327.7348	-2.370	7955.299	3.5	D6S (5D)4D	90780.621	3.5	5P (5D)4F	330.3464	-3.306	8846.768	0.5	D6S (5D)4D
327.7845	-3.461	30388.542	4.5	D6S (3G)2G	38458.981	4.5	4P (5D)6D	330.4430	-2.850	31811.822	2.5	D7 (5D)2F
327.8809	-1.157	102842.119	4.5	5S (3G)4G	60887.998	5.5	4P (3H)4H	330.4437	-4.923	73492.215	3.5	D5S2(7S)4F
327.9106	-8.285	21812.055	1.5	D6S (3P)4F	72352.024	3.5	4P (3D)4F	330.5609	-2.778	31483.176	3.5	D6S (3D)4D
327.9220	-3.693	36126.387	1.5	D6S (3D)2D	52299.390	2.5	4FP(7S)8P	330.6265	-3.736	30388.542	4.5	D6S (3G)2G
327.9644	-2.169	33466.463	4.5	D6S (1G)2G	66612.656	1.5	4P (3G)4F	330.6776	-1.201	103983.510	3.5	5S (3G)2G
328.0282	-4.702	57493.321	1.5	D5S2(7S)4F	63948.790	4.5	4P (3F)4G	330.6798	-4.028	78577.280	4.5	D5S2(7S)2G
328.1292	-2.695	8391.938	2.5	D6S (5D)4D	87964.650	1.5	4FP(5P)6D	330.7446	-3.317	100749.810	2.5	5S (3F)2F
328.1443	-2.718	103608.909	4.5	5S (3G)2G	38858.958	2.5	4P (5D)6D	330.7572	-3.867	30764.485	3.5	D6S (3G)2G
328.1922	-3.983	104064.670	6.5	4D (3H)4I	73143.288	3.5	4P (1G)2G	330.8389	-4.022	99824.045	2.5	5S (3F)4F
328.2281	-2.950	60441.033	1.5	D5S2(7S)4D	73603.500	5.5	4P (1I)2H	330.8391	-4.894	60270.339	3.5	D5S2(7S)4D
328.2496	-4.166	60445.275	2.5	D5S2(7S)4D	90981.124	2.5	5P (5D)4F	330.9264	-4.912	73492.215	3.5	D5S2(7S)4F
328.2575	-2.306	60384.370	0.5	D5S2(7S)4D	90839.480	0.5	4P (3P)4F	331.0548	-3.158	60441.033	1.5	D5S2(7S)4D
328.2633	-3.785	102584.963	5.5	5S (3G)4G	90839.480	0.5	4P (3P)4F	331.1013	-2.912	60445.275	2.5	D5S2(7S)4D
328.2738	-2.149	60445.275	2.5	D5S2(7S)4D	72130.390	4.5	4P (1G)2H	331.1150	-2.951	30764.485	3.5	D6S (3G)2G
328.3095	-4.249	102802.312	2.5	6S (5D)4D	90898.873	1.5	4P (3F)4G	331.1242	-1.940	102842.119	4.5	5S (3G)4G
328.3335	-3.097	48039.090	2.5	D7 (5D)2D	72352.024	3.5	4P (3D)4F	331.1375	-2.072	102842.119	4.5	5S (3G)4G
328.3392	-4.124	33501.253	3.5	D6S (1G)2G	78487.153	1.5	4P (1D)2D	331.1375	-3.725	78185.030	3.5	D5S2(7S)2G
328.3750	-4.380	78185.030	3.5	D5S2(7S)2G	63948.790	4.5	4P (3F)4G	331.1991	-4.529	60445.275	2.5	D5S2(7S)4D
328.4993	-2.973	31811.822	2.5	D7 (5D)2F	108629.250	2.5	4FP(3G)4G	331.2663	-5.006	8680.454	1.5	D6S (5D)4D
328.5283	-3.761	102394.718	3.5	6S (5D)4D	62244.520	1.5	4P (3F)4F	331.2783	-3.608	100492.020	3.5	5S (3F)2F
328.5408	-3.748	8680.454	1.5	D6S (5D)4D	71964.710	2.5	4P (3D)4F	331.3206	-3.677	99824.045	2.5	5S (3F)4F
328.6041	-4.926	104174.270	5.5	4D (3H)4I	39109.307	0.5	4P (5D)6D	331.3582	-4.543	109455.250	2.5	4SD(7S)8D
328.6506	-3.590	30388.542	4.5	D6S (3G)2G	73751.282	4.5	4P (1I)2H	331.3988	-3.960	8846.768	0.5	D6S (5D)4D
328.7461	-2.190	33466.463	4.5	D6S (1G)2G	60807.230	4.5	4P (3H)4G	331.4210	-4.159	109449.530	1.5	4SD(7S)8D
328.8007	-4.811	57493.321	1.5	D5S2(7S)4F	63876.317	5.5	4P (3F)4G	331.4354	-3.744	31811.822	2.5	D7 (5D)2F
328.8694	-2.192	82978.677	4.5	4D (5D)6F	87898.120	0.5	4FP(5G)6F	331.4346	-4.879	57411.065	2.5	D5S2(7S)4F
328.8968	-4.140	36126.387	1.5	D6S (3D)2D	90839.480	0.5	4P (3G)4F	331.4546	-2.554	31999.048	3.5	D7 (5D)2F
328.9354	-1.450	30764.485	3.5	D6S (3G)2G	52582.510	3.5	4FP(7S)8P	331.5479	-1.987	104119.710	7.5	4D (3H)2K
329.0024	-4.370	57578.484	0.5	D5S2(7S)4F	66522.304	2.5	4P (3G)4F	331.5524	-4.628	60441.033	1.5	D5S2(7S)4D
329.0092	-3.607	78185.030	3.5	D5S2(7S)2G	61156.835	3.5	4P (3H)4H	331.5998	-4.374	103751.660	5.5	4D (3H)4H
329.0954	-4.572	77861.625	4.5	5S (5D)6D	87964.650	1.5	4FP(5P)6D	331.6175	-5.450	13474.411	2.5	D7 (5D)4F
329.1939	-3.107	60270.339	3.5	D5S2(7S)4D	108570.560	4.5	4FP(3G)4G	331.6610	-4.833	57493.321	1.5	D5S2(7S)4F
329.2888	-4.834	36252.918	2.5	D6S (3D)2D	908239.200	3.5	2400D	331.6659	-4.427	109473.650	4.5	4SD(7S)8D
329.4103	-2.681	104315.370	6.5	4D (3H)2K	106338.822	2.5	5P (5D)4D	331.7807	-4.146	109463.220	3.5	4SD(7S)8D
329.4402	-2.328	104315.370	6.5	4D (3H)2K	66612.656	1.5	4P (3G)4F	331.8269	-2.841	60270.339	3.5	D5S2(7S)4D
329.5058	-3.339	31811.822	2.5	D7 (5D)2F	73966.832	6.5	4P (1I)2I	331.8372	-4.055	109455.250	2.5	D5S2(7S)4F
329.5233	-1.750	31387.948	2.5	D6S (3D)4D	73969.767	5.5	4P (1I)2I	331.8685	-4.321	57493.321	1.5	4SD(7S)8D
					62151.561	2.5	4P (3F)4F	331.8848	-3.499	36126.387	1.5	D6S (3D)2D
					61726.077	3.5	4P (3P)4D	331.9518	-3.030	60270.339	3.5	D5S2(7S)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
331.9779	-3.863	108804.667	3.5	5S (3D)4D	78690.846	2.5	4P (1D)2D	335.7031	-4.727	78185.030	3.5	D5S2(7S)2G
332.0318	-4.762	57493.321	1.5	D5S2(7S)4F	87602.250	1.5	4SP(5G)6F	335.7507	-2.248	77230.900	4.5	D5S2(7S)2H
332.1494	-1.951	48039.090	2.5	D7 (5D)2D	78137.364	3.5	4P (1D)2F	335.7532	-4.485	102394.718	3.5	6S (5D)4D
332.1542	-4.506	104064.670	6.5	4D (3H)4I	73966.832	6.5	4P (1I)2I	335.7927	-2.805	33501.253	3.5	D6S (1G)2G
332.1866	-3.243	104064.670	6.5	4D (3H)4I	73966.832	6.5	4P (1I)2I	335.8247	-2.640	31387.948	2.5	D6S (3D)4D
332.3063	-1.735	31999.048	3.5	D7 (5D)2F	62083.108	4.5	4P (3H)2G	335.8779	-4.400	13474.411	2.5	D7 (5D)2F
332.3315	-2.863	99688.337	3.5	5S (3F)4F	69606.552	3.5	4SP(5G)2F	336.0115	-2.356	32909.905	5.5	D6S (1I)2I
332.3610	-4.094	57493.321	1.5	D5S2(7S)4F	87572.431	2.5	4SP(5G)6F	336.0319	-3.025	102394.718	3.5	5S (3G)4G
332.4487	-2.101	47674.721	1.5	D7 (5D)2D	77742.730	2.5	4P (1D)2F	336.1050	-4.158	102394.718	3.5	6S (5D)4D
332.5007	-2.683	31999.048	3.5	D7 (5D)2F	62065.521	3.5	4P (3F)4F	336.1188	-4.632	102394.718	3.5	6S (5D)4D
332.5037	-4.478	102030.912	3.5	6S (5D)6D	71964.710	2.5	4P (3D)4P	336.1886	-3.680	102394.718	3.5	6S (5D)4D
332.5601	-4.590	73637.340	1.5	D5S2(7S)4F	103698.440	2.5	4F(5D)2[3]	336.2756	-3.457	31364.440	1.5	D6S (3D)4D
332.6007	-4.650	57578.484	0.5	D5S2(7S)4F	87635.920	0.5	4SP(5P)6D	336.2976	-3.693	31999.048	3.5	D7 (5D)2F
332.6368	-4.938	78185.030	3.5	D5S2(7S)2G	108239.200	3.5	240DD	336.2977	-4.110	78237.685	3.5	5S (5D)6D
332.6408	-4.898	78577.280	4.5	D5S2(7S)2G	108631.090	3.5	4SP(3G)4G	336.3143	-1.494	99332.102	4.5	5S (3H)2H
332.7187	-3.907	60441.033	1.5	D5S2(7S)4D	90487.810	2.5	5P (5D)6F	336.4209	-5.002	13904.824	0.5	D7 (5D)4P
332.7218	-4.088	37227.326	0.5	D6S (1S)2S	67273.826	1.5	4P (3F)2D	336.4474	-4.583	78525.407	2.5	5S (5D)6D
332.7633	-4.279	30764.485	3.5	D6S (3G)2G	60807.230	4.5	4P (3H)4G	336.5417	-2.861	31387.948	2.5	D6S (3D)4D
332.8175	-3.618	99688.337	3.5	5S (3F)4F	69650.484	2.5	4P (3G)2F	336.5624	-2.606	48039.090	2.5	D7 (5D)2D
332.9014	-4.211	60270.339	3.5	D5S2(7S)4F	90300.622	3.5	5P (3D)6F	336.5858	-4.596	78185.030	3.5	D5S2(7S)2G
332.9106	-2.563	31483.176	3.5	D6S (3D)4D	61512.634	4.5	4P (3H)4I	336.6169	-3.189	102842.119	4.5	5S (3G)4G
332.9443	-4.754	73393.745	4.5	D5S2(7S)4F	103420.160	5.5	4F(5D)3[6]	336.6404	-4.301	73637.340	1.5	D5S2(7S)4F
332.9737	-4.376	57578.484	0.5	D5S2(7S)4F	87602.250	1.5	4SP(5G)6F	336.6967	-1.680	44915.046	3.5	D6S (1F)2F
333.1129	-4.978	73395.930	2.5	D5S2(7S)4F	103406.250	2.5	4F(5D)3[2]	336.7002	-2.815	73492.215	3.5	D5S2(7S)4F
333.1774	-1.273	103608.909	4.5	5S (3G)2G	73363.500	5.5	4P (1I)2H	336.7161	-3.874	105291.010	3.5	4D (3F)4G
333.2333	-4.394	103751.660	5.5	4D (3H)4H	73751.282	4.5	4P (1I)2H	336.8484	-3.422	36252.918	2.5	D6S (3D)2D
333.2715	-4.577	103600.440	6.5	4D (3H)4H	73603.500	5.5	4P (1I)2H	336.8610	-3.529	31364.440	1.5	D6S (3D)4D
333.3508	-4.594	73395.930	2.5	D5S2(7S)4F	103385.730	3.5	4F(5D)3[3]	336.8962	-4.854	31483.176	3.5	D6S (3D)4D
333.3654	-3.512	105589.420	3.5	4D (3F)4H	75600.931	3.5	4P (3D)2F	336.9024	-4.801	31483.176	3.5	D6S (3D)4D
333.5897	-3.194	31364.440	1.5	D6S (3D)2F	61332.764	1.5	4P (3P)4P	336.9344	-2.754	31368.440	1.5	D6S (3D)4D
333.5988	-2.925	100492.020	3.5	5S (3F)4F	70523.706	3.5	4P (3G)2G	336.9799	-2.934	31368.440	0.5	D6S (3D)4D
333.6081	-2.352	99573.225	4.5	5S (3F)4F	69606.552	3.5	4P (3G)2F	336.9872	-4.952	78525.407	2.5	5S (5D)6D
333.7649	-3.493	60445.275	2.5	D5S2(7S)4D	90397.868	3.5	5P (5D)4D	337.1281	-4.510	31387.948	2.5	D6S (3D)4D
333.7729	-3.425	36126.387	1.5	D6S (3D)2D	66078.269	2.5	4P (3G)4G	337.1836	-4.458	78237.685	3.5	5S (5D)6D
333.8187	-5.046	13673.185	1.5	D7 (5D)4P	43620.957	1.5	4P (5D)6P	337.2948	-2.177	103608.909	4.5	5S (3G)2G
333.8432	-4.402	78185.030	3.5	D5S2(7S)2G	108130.600	2.5	270DD	337.3094	-5.315	30764.485	3.5	D6S (3G)2G
333.8462	-9.251	22637.205	4.5	D6S (3F)4F	52582.510	3.5	4SP(7S)8P	337.3272	-4.987	103600.440	6.5	4D (3H)4H
333.8516	-2.371	31387.948	2.5	D6S (3D)4D	61332.764	1.5	4P (3P)4P	337.3727	-4.987	77230.900	4.5	D5S2(7S)2H
333.9498	-4.783	78843.992	0.5	5S (5D)6D	108780.000	1.5	270DD	337.6241	-4.023	31483.176	3.5	D6S (3D)4D
334.0681	-2.099	102584.963	5.5	5S (3G)4G	72650.658	4.5	4P (3D)4F	337.6816	-4.703	78525.407	2.5	5S (5D)6D
334.1927	-4.061	31811.822	2.5	D7 (5D)2F	61726.077	3.5	4P (3P)4D	337.7177	-4.643	80177.975	1.5	5S (5D)4D
334.2234	-2.600	103878.340	7.5	4D (3H)4I	73966.832	6.5	4P (1I)2I	337.7689	-3.742	54273.621	4.5	D5S2(7S)4G
334.2784	-3.140	78577.280	4.5	D5S2(7S)2G	108483.870	5.5	4SP(3G)4G	337.8782	-4.224	54283.220	3.5	D5S2(7S)4G
334.4135	-3.184	79885.493	2.5	5S (5D)4D	109780.000	1.5	280DD	337.8943	-4.965	73393.745	4.5	D5S2(7S)4F
334.4313	-4.970	78237.685	3.5	5S (5D)6D	108130.600	2.5	270DD	338.0968	-3.150	31387.948	2.5	D6S (3D)4D
334.7947	-4.571	73492.215	3.5	D5S2(7S)4F	103352.680	4.5	4F(5D)3[5]	338.1006	-1.695	44929.550	2.5	D6S (1F)2F
334.8265	-3.860	103608.909	4.5	5S (3G)2G	73751.282	4.5	4P (1I)2H	338.1361	-3.909	31673.185	1.5	D7 (5D)4P
334.8521	-3.287	60445.275	2.5	D5S2(7S)4D	90300.625	3.5	5P (5D)6F	338.2142	-4.479	31483.176	3.5	D6S (3D)4D
335.0032	-4.085	73492.215	3.5	D5S2(7S)4F	103334.100	2.5	4SP(3D)2F	338.2647	-3.836	105155.090	4.5	4D (3F)4G
335.1819	-4.348	102842.119	4.5	5S (3G)4G	73016.147	3.5	4P (1G)2F	338.6454	-3.338	31811.822	2.5	D7 (5D)2F
335.1889	-4.854	36252.918	2.5	D6S (3D)2D	66078.269	2.5	4P (3G)4G	338.6724	-2.054	57411.065	2.5	D5S2(7S)4P
335.3250	-4.854	105414.180	2.5	4D (3F)4G	90060.931	3.5	4P (3D)2F	338.7298	-2.662	31483.176	3.5	D6S (3D)4D
335.5077	-3.375	60270.339	3.5	D5S2(7S)4D	90067.347	4.5	5P (5D)6F	338.8138	-3.271	31483.176	3.5	D6S (3D)4D
335.5572	-3.605	73393.745	4.5	D5S2(7S)4F	103183.700	3.5	4SP(3D)2F	338.8900	-4.073	73393.745	4.5	D5S2(7S)4F
335.6250	-2.721	32875.646	6.5	D6S (1I)2I	62662.244	5.5	4P (3H)2I	338.8977	-4.884	105414.180	2.5	4D (3D)2F
335.6449	-4.196	103751.660	5.5	4D (3H)4H	73966.832	6.5	4P (1I)2I	338.9619	-2.463	102584.963	5.5	5S (3G)4G
335.6780	-4.995	103751.660	5.5	4D (3H)4H	73969.767	5.5	4P (1I)2I	339.0091	-1.588	54870.528	2.5	D6S (3F)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
339.0118	-9.609	22810.357	3.5	D6S (3F)4F	52299.390	2.5	4SP(7S)8P	344.0251	-3.261	38214.507	1.5	D6S (1D)2D	67273.826	1.5	4P (3F)2D
339.0165	-4.639	73393.745	4.5	D5S2(7S)4F	102882.370	4.5	4F(5D)4[4]	344.0861	-3.216	57493.321	1.5	D5S2(7S)4P	86547.490	2.5	4P (1F)2F
339.1321	-2.740	33466.463	4.5	D6S (1G)2G	62945.038	3.5	4P (3F)4D	344.1277	-2.710	57493.321	1.5	D5S2(7S)4P	86543.974	1.5	4P (3F)4D
339.1893	-4.043	31483.176	3.5	D6S (3D)4D	60956.781	3.5	4P (3H)4G	344.1411	-1.470	99573.225	4.5	5S (3F)4F	70523.706	3.5	4P (3G)2G
339.3543	-2.459	77230.900	4.5	D5S2(7S)2H	106690.170	5.5	4SP(3I)2H	344.1907	-3.341	73492.215	3.5	D5S2(7S)4F	44446.878	3.5	4P (3D)4D
339.3749	-2.400	54902.315	1.5	D6S (3P)2P	84359.800	1.5	4P (1F)2D	344.2219	-2.881	31999.048	3.5	D7 (5D)2F	61041.748	2.5	4P (3H)4G
339.5328	-2.157	33501.253	3.5	D6S (1G)2G	62945.038	3.5	4P (3F)4D	344.2788	-4.458	31364.440	1.5	D6S (3D)4D	60402.342	2.5	4P (3P)4P
339.6459	-3.774	80346.016	0.5	5S (5D)4D	109780.000	1.5	280DD	344.3634	-4.439	50212.826	2.5	D6S (3P)4P	79243.600	1.5	4P (1D)2P
339.8360	-2.172	32875.646	6.5	D6S (1I)2I	62293.164	6.5	4P (3H)2I	344.3686	-4.792	60441.033	1.5	D5S2(7S)4D	89471.365	0.5	5P (5D)6D
340.1524	-4.989	73492.215	3.5	D5S2(7S)4F	102882.370	4.5	4F(5D)4[4]	344.3771	-4.247	54275.637	1.5	D5S2(7S)4G	83305.251	3.5	4P (1F)2G
340.1840	-4.476	78577.280	4.5	D5S2(7S)2G	107964.700	4.5	210DD	344.3828	-3.269	18360.646	1.5	D7 (5D)2P	47389.779	1.5	4P (1F)2G
340.1984	-3.861	49100.976	0.5	D6S (3P)4P	78487.153	1.5	4P (1D)2D	344.4671	-4.079	54283.220	3.5	D5S2(7S)4G	83305.251	3.5	4P (1F)2G
340.2082	-4.045	37227.326	0.5	D6S (1S)2S	66612.656	1.5	4P (3G)4F	344.4754	-2.686	37227.326	0.5	D6S (1S)2S	66248.660	0.5	4P (3P)2S
340.2322	-2.951	32909.905	5.5	D6S (1I)2I	62293.164	6.5	4P (3H)2I	344.5209	-2.548	99332.102	4.5	5S (3H)2H	70314.604	4.5	4P (3G)2G
340.2670	-4.929	102030.912	3.5	6S (5D)6D	72650.658	4.5	4P (3D)4F	344.5578	-3.098	31387.948	2.5	D6S (3D)4D	60402.342	2.5	4P (3P)4P
340.2865	-4.968	102394.718	3.5	6S (5D)4D	73016.147	3.5	4P (1G)2F	344.7101	-3.125	77861.625	4.5	5S (5D)6D	106863.200	3.5	160DD
340.3085	-4.017	103983.100	3.5	5S (3G)2G	74606.841	2.5	4P (3D)2D	344.7385	-4.585	60445.275	2.5	D5S2(7S)4D	89444.458	2.5	4SP(5P)6P
340.3187	-3.783	105291.010	3.5	4D (3F)4G	75915.215	2.5	4P (3D)2F	344.7535	-2.767	54870.528	2.5	D6S (3F)2F	83868.450	2.5	4P (1F)2D
340.3426	-4.426	99688.337	3.5	5S (3F)4F	70314.604	4.5	4P (3G)2G	344.8430	-3.368	31999.048	3.5	D7 (5D)2F	60989.444	4.5	4P (3H)4H
340.4879	-4.483	78525.407	2.5	5S (5D)6D	107886.600	3.5	200DD	344.9458	-3.667	23317.633	2.5	D5S2(7S)6S	52299.390	2.5	4SP(7S)8P
340.5422	-2.804	57411.065	2.5	D5S2(7S)4P	86767.577	2.5	4P (3P)4D	344.9493	-3.282	102584.963	5.5	5S (3G)4G	73603.500	5.5	4P (1I)2H
340.6757	-2.697	31811.822	2.5	D7 (5D)2F	61156.835	3.5	4P (3H)4H	345.1220	-1.472	54904.222	3.5	D6S (3F)2F	83871.184	4.5	4P (1F)2G
340.7916	-4.127	49506.934	1.5	D6S (3P)4P	78841.960	0.5	4P (1D)2P	345.1318	-1.560	54902.315	1.5	D6S (3P)2P	83868.450	2.5	4P (1F)2D
340.9192	-3.104	31483.176	3.5	D6S (3D)4D	60807.230	4.5	4P (3H)4G	345.1395	-2.803	57578.484	0.5	D5S2(7S)4P	86543.974	1.5	4P (3P)4D
341.0905	-4.439	78577.280	4.5	D5S2(7S)2G	107886.600	3.5	200DD	345.1546	-1.446	54904.222	3.5	D6S (3F)2F	83868.450	2.5	4P (1F)2D
341.1528	-3.782	77861.625	4.5	5S (5D)6D	107165.600	3.5	170DD	345.1768	-3.487	98568.912	3.5	5S (3H)4H	69606.552	3.5	4P (3G)2F
341.3769	-4.212	109414.180	2.5	4D (3F)4G	76129.446	1.5	4P (1S)2P	345.2227	-3.015	78237.685	3.5	5S (5D)6D	107196.200	2.5	180DD
341.4136	-3.139	31811.822	2.5	D7 (5D)2F	61093.413	2.5	4P (3P)2D	345.2320	-4.470	31999.048	3.5	D7 (5D)2F	60956.781	3.5	4P (3H)4G
341.4991	-2.414	57493.321	1.5	D5S2(7S)4P	86767.577	2.5	4P (3P)4D	345.2421	-3.554	73492.215	3.5	D5S2(7S)4F	102449.100	2.5	4SP(3D)2D
341.6021	-3.058	18360.646	1.5	D7 (5D)2P	47626.076	0.5	4P (5D)4P	345.3355	-4.308	73395.930	2.5	D5S2(7S)4F	44446.878	3.5	4P (3D)4D
341.6086	-3.363	23317.633	2.5	D5S2(7S)6S	52582.510	3.5	4SP(7S)8P	345.3616	-2.453	73393.745	4.5	D5S2(7S)4F	44446.878	3.5	4P (5D)4D
341.6690	-4.061	73492.215	3.5	D5S2(7S)4F	44232.512	4.5	4P (5D)4F	345.5879	-3.411	78237.685	3.5	5S (5D)6D	107165.600	3.5	170DD
341.6816	-2.408	99573.225	4.5	5S (3F)4F	70314.604	4.5	4P (3G)2G	345.6001	-4.860	13474.411	2.5	D7 (5D)4P	42401.302	1.5	4P (5D)6F
341.8033	-4.933	32909.905	5.5	D6S (1I)2I	62158.110	4.5	4P (3F)4F	345.6924	-2.013	31483.176	3.5	D6S (3D)4D	60402.342	2.5	4P (3P)4P
341.9154	-2.826	102842.119	4.5	5S (3G)4G	73603.500	5.5	4P (1I)2H	345.7012	-4.183	98568.912	3.5	5S (3H)4H	69550.484	2.5	4P (3G)2F
342.0170	-3.717	31811.822	2.5	D7 (5D)2F	61041.748	2.5	4P (3H)4G	345.8122	-4.748	15844.650	4.5	D7 (5D)2G	44753.799	3.5	4P (5D)4F
342.4171	-2.818	33466.463	4.5	D6S (1G)2G	62662.244	5.5	4P (3H)2I	345.8886	-3.986	47674.721	1.5	D7 (5D)2D	76577.482	0.5	4P (1S)2P
342.4658	-4.526	79439.467	3.5	5S (5D)4D	108631.090	3.5	4SP(3G)4G	345.9756	-3.518	57493.321	1.5	D5S2(7S)4P	86388.820	0.5	4P (3P)4D
342.5010	-4.168	33501.253	3.5	D6S (1G)2G	62689.880	2.5	4P (3P)4D	345.9874	-2.983	79885.493	2.5	5S (5D)4D	108780.000	1.5	270DD
342.5446	-4.786	60441.033	1.5	D5S2(7S)4D	89625.940	1.5	4SP(5P)6P	346.0903	-4.821	60445.275	2.5	D5S2(7S)4D	89331.195	1.5	5P (5D)6D
342.5563	-3.455	49506.934	1.5	D6S (3P)4P	78690.846	2.5	4P (1D)2D	346.2529	-3.591	102842.119	4.5	5S (3G)4G	73969.767	5.5	4P (1I)2I
342.5944	-4.874	13474.411	2.5	D7 (5D)4P	42658.224	3.5	4P (5D)6P	346.3235	-3.252	73637.340	1.5	D5S2(7S)4F	102503.810	1.5	4SP(3D)2D
342.6281	-3.704	60270.339	3.5	D5S2(7S)4D	89444.458	2.5	4SP(5P)6P	346.3962	-3.995	60270.339	3.5	D5S2(7S)4D	89128.561	3.5	4SP(5P)6P
342.8227	-2.725	73393.745	4.5	D5S2(7S)4F	44232.512	4.5	4P (5D)4F	346.4400	-3.256	36252.918	2.5	D6S (3D)2D	65109.679	3.5	4P (3F)2G
342.8632	-2.980	31999.048	3.5	D7 (5D)2F	61156.835	3.5	4P (3H)4H	346.4495	-2.381	33466.463	4.5	D6S (1G)2G	62322.431	3.5	4P (3H)2G
343.0142	-3.632	31811.822	2.5	D7 (5D)2F	60956.781	3.5	4P (3H)4G	346.4902	-4.281	73637.340	1.5	D5S2(7S)4F	44784.761	2.5	4P (5D)4D
343.1146	-3.624	57411.065	2.5	D5S2(7S)4P	86547.490	2.5	4P (1F)2F	346.6552	-4.763	38164.194	2.5	D6S (1D)2D	67000.517	2.5	4P (3F)2D
343.1560	-3.705	57411.065	2.5	D5S2(7S)4P	86543.974	1.5	4P (3P)4D	346.6856	-2.667	38164.194	2.5	D6S (1D)2D	67000.517	2.5	4P (3F)2D
343.1774	-4.162	79439.467	3.5	5S (5D)4D	108570.560	4.5	4SP(3G)4G	346.6866	-4.616	402584.963	5.5	5S (3G)4G	73751.282	4.5	4P (1I)2H
343.4305	-3.576	38164.194	2.5	D6S (1D)2D	67273.826	1.5	4P (3F)2D	346.8660	-1.841	78185.030	3.5	D5S2(7S)2G	107006.350	4.5	4SP(3I)2H
343.4511	-3.839	73395.930	2.5	D5S2(7S)4F	102503.810	1.5	4SP(3D)2D	346.8677	-1.525	33501.253	3.5	D6S (1G)2G	62322.431	3.5	4P (3H)2G
343.5345	-4.696	50142.786	2.5	D6S (3F)4F	79243.600	1.5	4P (1D)2P	346.9811	-4.216	73637.340	1.5	D5S2(7S)4F	102449.100	2.5	4SP(3D)2D
343.6107	-2.080	31999.048	3.5	D7 (5D)2F	61093.413	2.5	4P (3P)2D	347.0217	-1.101	99332.102	4.5	5S (3H)2H	70523.706	3.5	4P (3G)2G
343.6523	-3.998	102842.119	4.5	5S (3G)4G	73751.282	4.5	4P (1I)2H	347.0242	-4.029	31999.048	3.5	D7 (5D)2F	60827.230	4.5	4P (3H)4G
343.6977	-4.943	60384.370	0.5	D5S2(7S)4D	89471.365	0.5	5P (5D)6D	347.1260	-2.455	79439.467	3.5	5S (5D)4D	108239.200	3.5	240DD
343.8787	-2.946	57411.065	2.5	D5S2(7S)4P	86482.750	3.5	4P (1F)2F								

347.2915	-3.189	38214.507	1.5	D6S	(1D)2D	67000.517	2.5	4P	(3F)2D	351.4124	-4.199	38164.194	2.5	D6S	(1D)2D
347.3780	-0.791	99093.452	5.5	5S	(3H)2H	70314.604	4.5	4P	(3G)2G	351.4288	-4.072	79439.467	3.5	5S	(5D)4D
347.5254	-4.607	13673.185	1.5	D7	(5D)4P	42439.822	0.5	4P	(5D)6F	351.5822	-1.630	54870.258	2.5	D6S	(3F)2F
347.5739	-3.515	13474.411	2.5	D7	(5D)4P	42237.033	3.5	4P	(5D)6F	351.5913	-3.863	80346.016	0.5	5S	(5D)4D
347.7798	-4.205	79885.493	2.5	5S	(5D)4P	108631.090	3.5	4SP	(3G)4F	351.6296	-2.966	73637.340	1.5	D5S2	(7S)4F
347.8560	-4.168	18886.780	0.5	D7	(5D)2P	47626.076	0.5	4P	(5D)4P	351.6521	-3.381	78577.280	4.5	D5S2	(7S)2G
347.8667	-3.235	73492.215	3.5	D5S2	(7S)4F	44753.799	3.5	4P	(5D)4F	351.8212	-5.051	16369.360	3.5	D7	(5D)2G
347.9914	-5.003	13673.185	1.5	D7	(5D)4P	42401.302	1.5	4P	(5D)4F	351.8592	-3.290	73492.215	3.5	D5S2	(7S)4F
348.2291	-4.678	16369.360	3.5	D7	(5D)2G	45079.879	2.5	4P	(5D)4F	351.8727	-4.934	50075.910	1.5	D6S	(3F)4F
348.2419	-2.804	36126.387	1.5	D6S	(3D)2D	64834.073	1.5	4P	(3P)2P	351.9993	-2.798	54904.222	3.5	D6S	(3F)2F
348.2500	-4.073	73492.215	3.5	D5S2	(7S)4F	44784.761	2.5	4P	(5D)4P	352.0350	-4.937	38214.507	1.5	D6S	(1D)2D
348.4338	-2.130	33466.463	4.5	D6S	(1G)2G	72043.026	1.5	4P	(3D)4P	352.0395	-2.785	100749.810	2.5	5S	(3F)2F
348.4400	-3.536	79439.467	3.5	5S	(5D)4D	108130.600	2.5	220DD		352.1625	-4.539	15844.650	4.5	D7	(5D)2G
348.5740	-2.806	36126.387	1.5	D6S	(3D)2D	64806.487	0.5	4P	(3P)2P	352.2050	-5.750	16369.360	3.5	D7	(5D)2G
348.6080	-3.827	32909.905	5.5	D6S	(1I)2I	61587.214	5.5	4P	(3H)4I	352.2281	-4.003	103983.510	3.5	5S	(3G)2G
348.7986	-3.642	78525.407	2.5	5S	(5D)6D	107196.220	2.5	180DD		352.4883	-2.517	100492.020	3.5	5S	(3F)2F
348.8568	-3.797	33501.253	3.5	D6S	(1C)2G	62158.110	4.5	4P	(5D)6F	352.5320	-4.249	38164.194	2.5	D6S	(1D)2D
348.9163	-3.354	32875.646	6.5	D6S	(1I)2I	61527.616	6.5	4P	(3H)4I	352.5868	-3.877	79885.493	2.5	5S	(5D)4D
348.9365	-3.180	33501.253	3.5	D6S	(1C)2G	62151.561	2.5	4P	(3F)4F	352.6110	-2.793	73395.930	2.5	D5S2	(7S)4F
349.0598	-3.878	78525.407	2.5	5S	(5D)6D	107165.600	3.5	170DD		352.7030	-4.981	50142.786	2.5	D6S	(3F)4F
349.0628	-3.044	73393.745	4.5	D5S2	(7S)4F	44753.799	3.5	4P	(5D)4F	352.7053	-4.291	60270.339	3.5	D5S2	(7S)4D
349.2388	-2.715	78237.685	3.5	5S	(5D)6D	106863.200	3.5	160DD		352.7848	-3.270	78525.407	2.5	5S	(5D)6D
349.3172	-3.884	60384.370	0.5	D5S2	(7S)4D	89003.460	0.5	4P	(3P)2S	352.9794	-4.454	87985.628	2.5	4D	(5D)4P
349.3470	-1.203	33466.463	4.5	D6S	(1G)2G	62083.108	4.5	4P	(3H)2G	353.0557	-3.270	73395.930	2.5	D5S2	(7S)4F
349.4139	-3.110	73395.930	2.5	D5S2	(7S)4F	44784.761	2.5	4P	(5D)4P	353.1586	-4.593	38214.507	1.5	D6S	(1D)2D
349.4673	-3.153	18360.646	1.5	D7	(5D)2P	46967.444	2.5	4P	(5D)4P	353.1797	-3.157	79885.493	2.5	5S	(5D)4D
349.5170	-4.078	32909.905	5.5	D6S	(1I)2I	61512.634	4.5	4P	(3H)4I	353.2681	-3.174	36126.387	1.5	D6S	(3D)2D
349.5231	-4.182	15844.650	4.5	D7	(5D)2G	44446.878	3.5	4P	(5D)4D	353.2682	-2.438	58631.531	4.5	D6S	(1G)2G
349.5256	-3.606	80177.975	1.5	5S	(5D)4D	108780.000	1.5	270DD		353.3183	-4.370	31368.450	0.5	D6S	(3D)4D
349.5618	-2.426	33466.463	4.5	D6S	(1G)2G	62065.521	3.5	4P	(3F)4F	353.4318	-4.192	78577.280	4.5	D5S2	(7S)2G
349.6338	-3.265	78577.280	4.5	D5S2	(7S)2G	107165.600	3.5	170DD		353.5619	-2.985	31387.948	2.5	D6S	(3D)4D
349.6931	-3.874	78577.280	4.5	D5S2	(7S)4D	45004.168	1.5	4P	(5D)4D	353.7135	-3.908	58666.258	3.5	D6S	(1G)2G
349.7559	-4.531	60270.339	3.5	D5S2	(7S)4D	88853.533	3.5	5P	(5D)6D	353.7608	-3.365	33466.463	4.5	D6S	(1F)2G
349.7722	-3.070	33501.253	3.5	D6S	(1G)2G	62083.108	4.5	4P	(3H)2G	353.7614	-3.768	44929.550	2.5	D6S	(1F)2F
349.7808	-4.863	36252.918	2.5	D6S	(3D)2D	64834.073	1.5	4P	(3P)2P	353.8272	-3.232	100492.020	3.5	5S	(3F)2F
349.7850	-3.539	100749.810	2.5	5S	(3F)2F	72168.998	1.5	4P	(3D)4F	353.8372	-4.619	98568.912	3.5	5S	(3H)4H
349.9876	-2.497	33501.253	3.5	D6S	(1G)2G	62065.521	3.5	4P	(3F)4F	353.9425	-4.889	79885.493	2.5	5S	(5D)4D
350.0102	-3.911	60441.033	1.5	D5S2	(7S)4D	89003.460	0.5	4P	(3P)2S	353.9425	-4.889	79885.493	2.5	5S	(5D)4D
350.0710	-3.951	73637.340	1.5	D5S2	(7S)4D	45079.879	2.5	4P	(5D)4F	354.0023	-2.374	47674.721	1.5	D7	(5D)2D
350.1863	-4.954	50142.786	2.5	D6S	(3F)4F	78690.846	2.5	4P	(1D)2D	354.1539	-3.017	44915.046	3.5	D6S	(1F)2F
350.3466	-3.931	13904.824	0.5	D7	(5D)4P	42439.822	0.5	4P	(5D)6F	354.1968	-3.942	33501.253	3.5	D6S	(1G)2G
350.4410	-4.962	100492.020	3.5	5S	(3F)2F	71964.710	2.5	4P	(3D)4P	354.3442	-4.764	38164.194	2.5	D6S	(1F)2D
350.4624	-3.705	88189.030	0.5	4D	(5D)4P	59663.456	1.5	4P	(3P)4S	354.5875	-3.545	80177.975	1.5	5S	(5D)4D
350.4666	-2.331	79439.467	3.5	5S	(5D)4D	107964.700	4.5	210DD		354.7858	-4.430	73395.930	2.5	D5S2	(7S)4F
350.6379	-3.090	100749.810	2.5	5S	(3F)2F	72238.513	2.5	4P	(1D)2D	354.8038	-2.490	44915.046	3.5	D6S	(1F)2F
350.7395	-3.947	50187.813	3.5	D6S	(3F)4F	78690.846	2.5	4P	(1D)2D	354.8548	-3.995	36252.918	2.5	D6S	(3D)2D
350.7939	-3.551	18886.780	0.5	D7	(5D)2P	47389.779	1.5	4P	(5D)4F	355.2552	-3.673	81639.260	2.5	D5S2	(7S)2F
350.8202	-3.975	13904.824	0.5	D7	(5D)4P	42401.302	1.5	4P	(5D)6F	355.2666	-2.246	100492.020	3.5	5S	(3F)2F
350.8549	-4.341	88157.116	1.5	4D	(5D)4P	59663.456	1.5	4P	(3P)4S	355.2666	-2.246	100492.020	3.5	5S	(3F)2F
350.9208	-4.796	79885.493	2.5	5S	(5D)4D	108373.800	3.5	260DD		355.2666	-2.246	100492.020	3.5	5S	(3F)2F
350.9467	-4.637	79885.493	2.5	5S	(5D)4D	108373.800	3.5	260DD		355.3808	-4.195	98445.400	4.5	5S	(3H)4H
351.0476	-4.273	50212.826	2.5	D6S	(3P)4F	78690.846	2.5	4P	(1D)2D	355.3808	-4.195	98445.400	4.5	5S	(3H)4H
351.1222	-3.840	32875.646	6.5	D6S	(1I)2I	61347.614	7.5	4P	(3H)4I	355.4498	-3.995	36252.918	2.5	D6S	(3D)2D
351.1414	-3.273	78725.790	1.5	5S	(5D)6D	107196.220	2.5	180DD		355.5077	-3.821	33466.463	4.5	D6S	(1F)2G
351.1776	-4.940	80177.975	1.5	5S	(5D)6D	108629.250	2.5	4SP	(3G)4G	355.6071	-1.845	78577.280	4.5	D5S2	(7S)2G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
355.6845	-3.921	99093.452	5.5	5S (3H)2H	70986.677	6.5	4P (1I)2K	361.0334	-2.955	33466.463	4.5	D6S (1G)2G
355.6927	-2.417	73395.930	2.5	D5S2 (7S)4F	45289.801	1.5	4P (5D)4F	361.0390	-4.906	44929.550	2.5	D6S (1F)2F
355.7536	-2.193	58666.258	3.5	D6S (1G)2G	86767.577	2.5	4P (3P)4F	361.1679	-2.631	99918.569	1.5	5S (3F)4F
355.7563	-3.296	44915.046	3.5	D6S (1F)2F	73016.147	3.5	4P (1G)2F	361.2803	-3.853	105414.180	2.5	4D (3F)4G
355.7964	-2.716	100749.810	2.5	5S (3F)2F	72651.876	3.5	4P (3D)4D	361.4876	-2.074	33501.253	3.5	D6S (1G)2G
355.8924	-4.201	44039.090	2.5	D7 (5D)2D	76129.446	1.5	4P (1S)2F	361.4946	-3.899	99824.045	2.5	5S (3F)4F
355.9400	-4.704	4929.550	2.5	D6S (1F)2F	73016.147	3.5	4P (1G)2F	361.9749	-4.925	60441.033	1.5	D5S2 (7S)4D
356.0295	-3.514	32909.905	5.5	D6S (1I)2I	60989.444	4.5	4P (3H)4H	362.1270	-1.557	70727.810	2.5	D6S (1S)2S
356.0551	-5.387	16369.360	3.5	D7 (5D)2D	44446.878	3.5	4P (5D)4D	362.1300	-1.637	100749.810	2.5	5S (3F)2F
356.1721	-1.454	103983.510	3.5	5S (3G)2G	75915.215	2.5	4P (3D)2F	362.2163	-4.788	50142.786	2.5	D6S (3F)4F
356.4531	-2.043	33466.463	4.5	D6S (1G)2G	61512.634	4.5	4P (3H)4I	362.2810	-3.287	44929.550	2.5	D6S (1F)2F
356.4654	-3.489	98568.912	3.5	5S (3H)4H	70523.706	3.5	4P (3G)2G	362.3185	-3.241	33501.253	3.5	D6S (1G)2G
356.6059	-2.657	38214.507	1.5	D6S (1D)2D	66248.660	0.5	4P (3P)2S	362.4055	-1.910	99824.045	2.5	5S (3F)4F
356.6152	-2.385	36252.918	2.5	D6S (3D)2D	64286.345	3.5	4P (3F)2F	362.4350	-4.850	87985.628	2.5	4D (5D)4P
356.7137	-2.912	80346.016	0.5	5S (5D)4D	108371.700	1.5	250DD	362.4793	-4.484	60384.370	0.5	D5S2 (7S)4D
356.8672	-3.816	80177.975	1.5	5S (5D)4D	108191.600	1.5	230DD	362.4893	-1.837	37227.326	0.5	D6S (1S)2S
356.8886	-3.546	32875.646	6.5	D6S (1I)2I	60887.598	5.5	4P (3H)4H	362.7171	-2.287	48039.090	2.5	D7 (5D)2D
356.8958	-3.346	33501.253	3.5	D6S (1G)2G	61512.634	4.5	4P (3H)4I	362.7321	-4.912	100749.810	2.5	5S (3F)2F
356.9392	-1.453	103608.909	4.5	5S (3G)2G	75600.931	3.5	4P (3D)2F	362.7683	-4.650	99688.337	3.5	5S (3F)4F
357.0268	-2.302	79885.493	2.5	5S (5D)4D	107886.600	3.5	200DD	362.8082	-4.537	50187.813	3.5	D6S (3F)4F
357.2973	-3.544	50157.452	4.5	D6S (3F)4F	78137.364	3.5	4P (1D)2F	362.8612	-3.484	106836.000	3.5	4P2 (7P)8P
357.2987	-2.603	98294.401	5.5	5S (3H)4H	70314.604	4.5	4P (3G)2G	362.8956	-4.424	105291.010	3.5	4D (3F)4G
357.5271	-4.076	32875.646	6.5	D6S (1I)2I	60837.569	6.5	4P (3H)4H	362.9982	-4.271	33501.253	3.5	D6S (1G)2G
357.5385	-2.932	36126.387	1.5	D6S (3D)2D	64087.418	2.5	4P (3F)4G	363.2208	-4.957	60441.033	1.5	D5S2 (7S)4D
357.6303	-4.415	99918.569	1.5	5S (3F)4F	71964.710	2.5	4P (3D)4P	363.2292	-2.585	33466.463	4.5	D6S (1G)2G
357.6460	-2.818	80177.975	1.5	5S (5D)4D	108130.600	2.5	220DD	363.3511	-4.805	60384.370	0.5	D5S2 (7S)4D
357.6854	-4.714	50187.813	3.5	D6S (3F)4F	78137.364	3.5	4P (1D)2F	363.4733	-3.133	106836.000	3.5	4P2 (7P)8P
357.9657	-4.966	32909.905	5.5	D6S (1I)2I	60837.569	6.5	4P (3H)4H	363.6608	-4.076	33466.463	4.5	D6S (1G)2G
358.0058	-4.122	50212.826	2.5	D6S (3P)4F	78137.364	3.5	4P (1D)2F	363.6801	-2.049	99918.569	1.5	5S (3F)4F
358.0423	-3.087	98445.400	4.5	5S (3H)4H	70523.706	3.5	4P (3G)2G	363.6889	-4.829	33501.253	3.5	D6S (1G)2G
358.4748	-2.401	107219.500	4.5	4P2 (7P)8P	79331.500	3.5	4SP (5S)6P	363.8436	-4.108	49100.976	0.5	D6S (3P)4P
358.5619	-1.438	58666.258	3.5	D6S (1G)2G	86547.490	2.5	4P (1F)2F	363.8520	-1.532	100492.020	3.5	5S (3F)2F
358.6276	-3.767	48039.090	2.5	D7 (5D)2D	75915.215	2.5	4P (3D)2F	363.9030	-2.582	99824.045	2.5	5S (3F)4F
358.6738	-2.700	100492.020	3.5	5S (3F)2F	72619.490	2.5	4P (3D)4D	364.1216	-3.361	33501.253	3.5	D6S (1G)2G
358.7867	-3.436	38214.507	1.5	D6S (1D)2D	66078.269	2.5	4P (3G)4G	364.1677	-3.104	105589.420	3.5	4D (3F)4H
358.7945	-6.441	16369.360	3.5	D7 (5D)2D	44232.512	4.5	4P (5D)4F	364.1973	-3.104	99688.337	5.5	3F (3F)4F
358.8437	-3.172	99824.045	2.5	5S (3F)4F	71964.710	2.5	4P (3D)4P	364.2900	-3.318	99573.225	4.5	5S (3F)4F
358.9483	-1.294	58631.531	4.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F	364.3656	-2.437	100492.020	3.5	5S (3F)2F
359.0734	-2.500	100492.020	3.5	5S (3F)2F	72650.658	4.5	4P (3D)4F	364.3678	-3.383	44915.046	3.5	D6S (1F)2F
359.0911	-1.732	100492.020	3.5	5S (3F)2F	72651.876	3.5	4P (3D)4D	364.4193	-4.409	36126.387	1.5	D6S (3D)2D
359.1639	-3.828	36252.918	2.5	D6S (3D)2D	64087.418	2.5	4P (3F)4G	364.5438	-4.407	79439.467	3.5	5S (5D)4D
359.3964	-3.216	58666.258	3.5	D6S (1G)2G	86482.750	3.5	4P (1F)2F	364.5605	-3.329	44929.550	2.5	D6S (1F)2G
359.7514	-4.864	60270.339	3.5	D5S2 (7S)4D	88059.380	2.5	4SP (5P)6D	364.5783	-4.133	33466.463	4.5	D6S (1G)2G
359.7653	-2.650	36252.918	2.5	D6S (3D)2D	64040.886	3.5	4P (3F)4G	364.8538	-1.582	100492.020	3.5	5S (3F)2F
359.8553	-2.180	99824.045	2.5	5S (3F)4F	72043.026	1.5	4P (3D)4P	364.9394	-2.552	99918.569	1.5	5S (3F)4F
360.0332	-4.057	38164.194	2.5	D6S (1D)2D	65931.334	3.5	4P (3G)4G	365.5435	-4.080	100492.020	3.5	5S (3F)2F
360.1702	-4.475	79439.467	3.5	5S (5D)4D	107196.200	2.5	180DD	365.6500	-3.734	33466.463	4.5	D6S (1G)2G
360.1956	-3.383	88157.116	1.5	4D (5D)4P	60402.342	2.5	4P (3P)4P	365.6774	-4.449	36126.387	1.5	D6S (3D)2D
360.2601	-3.608	32875.646	6.5	D6S (1I)2I	60625.449	5.5	4P (3H)4F	365.7096	-1.773	99688.337	3.5	5S (3F)4F
360.2632	-1.958	99918.569	1.5	5S (3F)4F	72168.998	1.5	4P (3D)4F	365.8815	-4.150	44915.046	3.5	D6S (1F)2F
360.4286	-3.090	44915.046	3.5	D6S (1F)2F	72651.876	3.5	4P (3D)4D	366.0419	-4.398	99573.225	4.5	5S (3F)4F
360.4445	-3.854	44915.046	3.5	D6S (1F)2F	72650.658	4.5	4P (3D)4F	366.0525	-3.600	79885.493	2.5	5S (5D)4D
360.4698	-3.224	100749.810	2.5	5S (3F)2F	73016.147	3.5	4P (1G)2F	366.1159	-4.158	33501.253	3.5	D6S (1G)2G
360.5677	-4.917	79439.467	3.5	5S (5D)4D	107165.600	3.5	170DD	366.2030	-1.807	99824.045	2.5	5S (3F)4F
360.6003	-2.573	99688.337	3.5	5S (3F)4F	71964.710	2.5	4P (3D)4P	366.2084	-4.197	99918.569	1.5	5S (3F)4F
360.6172	-3.060	44929.550	2.5	D6S (1F)2F	72651.876	3.5	4P (3D)4D	366.2631	-3.674	79885.493	2.5	5S (5D)4D
360.8351	-2.373	99918.569	1.5	5S (3F)4F	72212.978	0.5	4P (3D)4P	366.4641	-4.360	81639.260	2.5	D5S2 (7S)2F
360.9740	-1.315	100749.810	2.5	5S (3F)2F	73054.881	2.5	4P (1G)2F	366.9867	-2.888	102842.119	4.5	5S (3G)4G

367.0101	-4.624	44929.550	2.5	D6S	(1F)2F	4P	(3D)4F	372.4228	-4.332	78185.030	3.5	D5S2	(7S)2G	105028.600	3.5	4SP	(3I)4H
367.2561	-3.490	99573.225	4.5	5S	(3F)4F	4P	(3D)4F	372.5304	-2.696	36126.387	1.5	D6S	(3D)2D	62962.205	1.5	4P	(3P)4D
367.3352	-3.805	44915.046	3.5	D6S	(1F)2F	4P	(1G)2H	372.5305	-4.542	81730.390	4.5	D5S2	(7S)2F	108570.560	4.5	4SP	(3G)4G
367.3777	-4.159	36252.918	2.5	D6S	(3D)2D	4P	(3P)4D	372.5872	-3.139	99093.452	5.5	5S	(3H)2H	72261.729	5.5	4P	(1G)2H
367.4809	-2.411	99824.045	2.5	5S	(3F)4F	4P	(3D)4D	372.6896	-3.456	88157.116	1.5	4D	(5D)4F	61332.764	1.5	4P	(3P)4P
367.5193	-3.220	99332.102	4.5	5S	(3H)2H	4P	(1G)2H	372.7037	-1.978	72619.490	2.5	D7	(5D)2D	74498.057	1.5	4P	(3D)2D
367.5231	-4.131	60270.339	3.5	D5S2	(7S)4D	4SP	(3G)6F	372.8394	-6.005	15844.650	4.5	D7	(5D)2G	42658.224	3.5	4P	(5D)6P
367.6115	-4.894	60441.033	1.5	D5S2	(7S)4D	4SP	(3G)6D	372.9183	-3.626	99824.045	2.5	5S	(3F)4F	73016.147	3.5	4P	(1G)2F
367.9189	-3.493	99824.045	2.5	5S	(3F)4F	4P	(3D)4D	373.2885	-4.472	57578.484	0.5	D5S2	(7S)4F	84359.800	1.5	4P	(1F)2D
367.9226	-4.840	81734.750	3.5	D5S2	(7S)2F	4SP	(3G)4H	373.4580	-4.777	99824.045	2.5	5S	(3F)4F	73054.881	2.5	4P	(1G)2F
368.0975	-3.969	33466.463	4.5	D6S	(1G)2G	4P	(3H)4F	373.5437	-3.912	73637.340	1.5	D5S2	(7S)4F	100400.360	2.5	4SP	(3P)2D
368.1247	-4.845	60445.275	2.5	D5S2	(7S)4D	4SP	(3G)6F	373.6868	-4.240	78185.030	3.5	D5S2	(7S)2G	104937.800	4.5	4SP	(3I)4H
368.1685	-4.184	88189.030	0.5	4D	(5D)4P	4P	(3P)4P	373.9710	-3.176	81639.260	2.5	D5S2	(7S)2F	108371.700	1.5	250DD	
368.1698	-4.904	105291.010	3.5	4D	(5D)4P	4P	(1D)2F	373.9871	-2.696	99918.569	1.5	5S	(3F)4F	73187.280	0.5	4P	(3D)2P
368.2656	-4.073	36126.387	1.5	D6S	(3D)2D	4P	(3F)4D	374.0127	-3.263	99918.569	1.5	5S	(3F)4F	73189.110	1.5	4P	(3D)2P
368.3449	-3.269	81639.260	2.5	D5S2	(7S)2F	4SP	(3G)4H	374.1559	-4.426	18360.646	1.5	D7	(5D)2P	45079.879	2.5	4P	(5D)4F
368.4333	-4.959	81734.750	3.5	D5S2	(7S)2F	4SP	(3G)4H	374.2952	-4.966	36252.918	2.5	D6S	(3D)2D	62962.205	1.5	4P	(3P)4D
368.4718	-4.690	60441.033	1.5	D5S2	(7S)4D	4SP	(3G)6F	374.3877	-4.126	36126.387	1.5	D6S	(3D)2D	62829.075	0.5	4P	(3P)4D
368.6018	-4.799	88157.116	1.5	4D	(5D)4P	4P	(3H)4G	374.5359	-3.414	36252.918	2.5	D6S	(3D)2D	62945.038	3.5	4P	(3F)4D
368.6896	-4.541	88157.116	1.5	4D	(5D)4P	4P	(3H)4G	374.6566	-3.830	18360.646	1.5	D7	(5D)2P	45044.168	1.5	4P	(5D)4D
368.7153	-3.697	44929.550	2.5	D6S	(1F)2F	4P	(3D)4P	374.7482	-2.237	99332.102	4.5	5S	(3H)2H	72650.658	4.5	4P	(3D)4F
369.0025	-4.325	60445.275	2.5	D5S2	(7S)4D	4SP	(3G)6F	374.7029	-2.153	99332.102	4.5	5S	(3H)2H	72651.876	3.5	4P	(3D)4D
369.3000	-4.587	49506.934	1.5	D6S	(3P)4P	4P	(1S)2D	374.8158	-3.170	99688.337	3.5	5S	(3F)4F	73016.147	3.5	4P	(1G)2F
369.3024	-3.746	99332.102	4.5	5S	(3H)2H	4P	(1G)2H	374.8483	-1.637	38164.194	2.5	D6S	(1D)2D	64834.073	1.5	4P	(3P)2F
369.3934	-3.484	88157.116	1.5	4D	(5D)4P	4P	(3D)4D	374.9969	-3.529	60270.339	3.5	D5S2	(7S)4D	86929.649	3.5	4P	(3P)4D
369.3934	-3.484	88157.116	1.5	4D	(5D)4P	4P	(3D)4D	375.0876	-4.929	87985.628	2.5	4D	(5D)4P	61332.764	1.5	4P	(3P)4P
369.5852	-3.573	44915.046	3.5	D6S	(1F)2F	4P	(3D)4P	375.3401	-2.583	99824.045	2.5	5S	(3F)4F	73189.110	1.5	4P	(3D)2P
369.7490	-2.636	99688.337	3.5	5S	(3F)4F	4P	(3D)4F	375.3609	-3.082	99688.337	3.5	5S	(3F)4F	73054.881	2.5	4P	(1G)2F
369.7657	-4.618	99688.337	3.5	5S	(3F)4F	4P	(3D)4F	375.5568	-2.530	38214.507	1.5	D6S	(1D)2D	64834.073	1.5	4P	(3P)2P
369.7835	-4.417	44929.550	2.5	D6S	(1F)2F	4P	(3D)4P	375.8339	-4.847	81639.260	2.5	D5S2	(7S)2F	108239.200	3.5	240DD	
369.8150	-3.643	49100.976	0.5	D6S	(3P)4P	4P	(1S)2P	375.9464	-1.969	38214.507	1.5	D6S	(1D)2D	64806.487	0.5	4P	(3P)2P
369.9901	-3.907	36252.918	2.5	D6S	(3D)2D	4P	(1S)2P	376.2893	-1.841	48039.090	2.5	D7	(5D)2D	74606.841	2.5	4P	(3D)2D
370.0152	-3.827	80177.975	1.5	5S	(5D)4D	4P	(3F)4D	376.3496	-3.900	36126.387	1.5	D6S	(3D)2D	62689.880	2.5	4P	(3P)4D
370.0221	-4.463	105155.090	4.5	4D	(3F)4G	4P	(1D)2F	376.4105	-3.245	20830.582	2.5	D6S	(3D)2D	47389.779	1.5	4P	(5D)4P
370.2043	-3.435	73395.930	2.5	D5S2	(7S)4F	4SP	(3P)2D	376.4405	-2.490	99573.225	4.5	5S	(3F)4F	73016.147	3.5	4P	(1G)2F
370.4023	-4.123	81639.260	2.5	D5S2	(7S)2F	4SP	(3G)4G	376.6111	-3.130	99688.337	3.5	5S	(3F)4F	73143.288	3.5	4P	(1G)2G
370.5384	-3.530	99332.102	4.5	5S	(3H)2H	4P	(3D)4F	376.8990	-4.717	73492.151	3.5	D5S2	(7S)4F	46967.444	2.5	4P	(5D)4P
370.5710	-3.492	79885.493	2.5	5S	(5D)4D	4P	(3D)4F	377.1880	-4.112	81734.750	3.5	D5S2	(7S)2F	108239.200	3.5	240DD	
370.7723	-2.681	99093.452	5.5	5S	(3H)2H	4P	(1G)2H	377.2906	-4.942	60270.339	3.5	D5S2	(7S)4D	86767.577	2.5	4P	(3P)4D
371.0141	-3.698	38164.194	2.5	D6S	(1D)2D	4P	(3F)2G	377.3746	-4.860	81639.260	2.5	D5S2	(7S)2F	108130.600	2.5	220DD	
371.0362	-4.738	87985.628	2.5	4D	(5D)4P	4P	(3H)4G	377.4739	-3.979	60445.275	2.5	D5S2	(7S)4D	86929.649	3.5	4P	(3P)4D
371.1409	-4.713	86599.738	2.5	4D	(5D)4F	4P	(3P)4S	377.5129	-2.594	99573.225	4.5	5S	(3F)4F	73091.590	4.5	4P	(1G)2G
371.1982	-2.777	47674.721	1.5	D7	(5D)2D	4P	(3D)2D	377.7340	-4.194	85462.862	3.5	4D	(5D)4G	111929.000	2.5	290DD	
371.2391	-5.506	18360.646	1.5	D7	(5D)2D	4P	(5D)4F	377.7422	-1.674	105711.730	2.5	5D	(5D)6S	79246.170	1.5	4SP	(5S)6P
371.3300	-1.982	99573.225	4.5	5S	(3F)4F	4P	(3D)4F	377.8364	-3.256	48039.090	2.5	D7	(5D)2D	74498.057	1.5	4P	(3D)2D
371.3468	-1.827	99573.225	4.5	5S	(3F)4F	4P	(3D)4D	377.8576	-4.197	57411.065	2.5	D5S2	(7S)4P	83868.450	2.5	4P	(1F)2D
371.5290	-2.783	73492.215	3.5	D5S2	(7S)4F	4SP	(3P)2D	377.9576	-4.128	20516.960	2.5	D7	(5D)2D	46967.444	2.5	4P	(5D)4P
371.6264	-4.743	33501.253	3.5	D6S	(1G)2G	4P	(3P)4P	378.0675	-2.481	99093.452	5.5	5S	(3H)2H	72650.658	4.5	4P	(3D)4F
371.6612	-4.608	105589.420	3.5	4D	(3F)4H	4P	(1D)2D	378.1286	-4.921	98568.912	3.5	5S	(3H)4H	72130.390	4.5	4P	(1G)2H
371.6921	-4.290	81734.750	3.5	D5S2	(7S)2F	4SP	(3G)4G	378.1509	-2.840	36252.918	2.5	D6S	(3D)2D	62689.880	2.5	4P	(3P)4D
371.7491	-3.674	87985.628	2.5	4D	(5D)4P	4P	(3P)2D	378.2514	-1.545	99573.225	4.5	5S	(3F)4F	73143.288	3.5	4P	(1G)2G
371.9125	-4.868	85048.602	1.5	4D	(5D)4D	4P	(3P)2D	378.2989	-1.784	105711.730	2.5	5D	(5D)6S	79285.110	2.5	4SP	(5S)6P
372.0174	-4.815	20516.960	2.5	D7	(5D)2D	4P	(5D)4F	378.3347	-3.349	18360.646	1.5	D7	(5D)2P	44784.761	2.5	4P	(5D)4D
372.0672	-7.216	16369.360	3.5	D7	(5D)2G	4P	(5D)6P	378.5015	-3.920	73395.930	2.5	D5S2	(7S)4F	99808.400	3.5	4P	(1G)2G
372.1052	-4.284	57493.321	1.5	D5S2	(7S)4P	4P	(1F)2D	378.6370	-5.236	18886.780	0.5	D7	(5D)2P	45289.801	1.5	4P	(5D)4F
372.1439	-3.608	99918.569	1.5	5S	(3F)4F	4P	(1G)2F	378.7399	-3.561	81734.750	3.5	D5S2	(7S)2F	108130.600	2.5	220DD	
372.2467	-4.110	88189.030	0.5	4D	(5D)4P	4P	(3P)4P	378.7896	-5.989	15844.650	4.5	D7	(5D)2G	42237.033	3.5	4P	(5D)6F
372.3918	-5.117	18360.646	1.5	D7	(5D)2P	4P	(5D)4D	378.9917	-3.149	105630.750	2.5	5D	(5D)4G	79246.170	1.5	4SP	(5S)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	
378.9641	-2.010	105711.730	2.5	5D (5D)6S	378.9641	-2.010	105711.730	2.5	5D (5D)6S	384.2995	-3.337	86416.333	3.5	4D (5D)4F	60402.342	2.5	4P (3F)4P	60402.342	2.5	4P (3F)4P
379.0374	-4.166	57493.321	1.5	D5S2(7S)4P	379.0374	-4.166	57493.321	1.5	D5S2(7S)4P	384.4242	-4.973	88157.116	1.5	4D (5D)4F	62151.561	2.5	4P (3F)4F	62151.561	2.5	4P (3F)4F
379.2475	-4.497	78577.280	4.5	D5S2(7S)2C	379.2475	-4.497	78577.280	4.5	D5S2(7S)2C	384.4405	-3.924	60384.370	0.5	D5S2(7S)4D	86388.820	0.5	4P (3F)4D	86388.820	0.5	4P (3F)4D
379.4617	-3.296	105630.750	2.5	5D (5D)4G	379.4617	-3.296	105630.750	2.5	5D (5D)4G	384.4788	-1.284	99093.452	5.5	5S (3H)2H	73091.590	4.5	4P (1G)2G	73091.590	4.5	4P (1G)2G
379.6559	-3.935	37227.326	0.5	D6S (1S)2S	379.6559	-3.935	37227.326	0.5	D6S (1S)2S	384.5180	-2.279	36126.387	1.5	D6S (3D)2D	62125.600	1.5	4P (3F)2D	62125.600	1.5	4P (3F)2D
379.6813	-3.470	98568.912	3.5	5S (3H)4H	379.6813	-3.470	98568.912	3.5	5S (3H)4H	384.6306	-4.402	36252.918	2.5	D6S (3D)2D	62244.520	1.5	4P (3F)4F	62244.520	1.5	4P (3F)4F
379.7981	-3.373	60445.275	2.5	D5S2(7S)4P	379.7981	-3.373	60445.275	2.5	D5S2(7S)4P	385.0178	-6.625	16369.360	3.5	D7 (5D)2G	42334.822	2.5	4P (5D)6F	42334.822	2.5	4P (5D)6F
379.8361	-4.399	18886.780	0.5	D7 (5D)2P	379.8361	-4.399	18886.780	0.5	D7 (5D)2P	385.1044	-4.458	105205.790	2.5	5D (5D)6F	79246.170	1.5	4SP(5S)6P	79246.170	1.5	4SP(5S)6P
379.8597	-4.376	21308.040	1.5	D7 (5D)2D	379.8597	-4.376	21308.040	1.5	D7 (5D)2D	385.2056	-2.233	77230.900	4.5	D5S2(7S)2H	103183.700	3.5	4SP(3D)2F	103183.700	3.5	4SP(3D)2F
379.8864	-4.599	73492.215	3.5	D5S2(7S)4F	379.8864	-4.599	73492.215	3.5	D5S2(7S)4F	385.2558	-3.925	98568.912	3.5	5S (3H)4H	72619.490	2.5	4P (3D)4D	72619.490	2.5	4P (3D)4D
379.8897	-1.738	99332.102	4.5	5S (3H)2H	379.8897	-1.738	99332.102	4.5	5S (3H)2H	385.2801	-4.192	60441.033	1.5	D5S2(7S)4D	86388.820	0.5	4P (3F)4D	86388.820	0.5	4P (3F)4D
379.9034	-4.391	98445.400	4.5	5S (3H)4H	379.9034	-4.391	98445.400	4.5	5S (3H)4H	385.3287	-4.749	88189.030	0.5	4D (5D)4P	62244.520	1.5	4P (3F)4F	62244.520	1.5	4P (3F)4F
380.1311	-3.525	105630.750	2.5	5D (5D)4G	380.1311	-3.525	105630.750	2.5	5D (5D)4G	385.4211	-4.475	78237.685	3.5	5S (5D)6D	52299.390	2.5	4SP(7S)8P	52299.390	2.5	4SP(7S)8P
380.2812	-7.377	16369.360	3.5	D7 (5D)2G	380.2812	-7.377	16369.360	3.5	D7 (5D)2G	385.4462	-4.728	87985.628	2.5	4D (5D)4P	62049.025	2.5	4SP(7S)6P	62049.025	2.5	4SP(7S)6P
380.5519	-6.159	15844.650	4.5	D7 (5D)2G	380.5519	-6.159	15844.650	4.5	D7 (5D)2G	385.4833	-4.899	88157.116	1.5	4D (5D)4F	62244.520	1.5	4P (3F)4F	62244.520	1.5	4P (3F)4F
380.6281	-3.322	73492.215	3.5	D5S2(7S)4F	380.6281	-3.322	73492.215	3.5	D5S2(7S)4F	386.0112	-4.442	36252.918	2.5	D6S (3D)2D	62151.561	2.5	4P (3F)4F	62151.561	2.5	4P (3F)4F
380.6816	-4.636	38164.194	2.5	D6S (1D)2P	380.6816	-4.636	38164.194	2.5	D6S (1D)2P	386.2120	-3.155	100492.020	3.5	5S (3F)2F	74606.841	2.5	4P (3D)2D	74606.841	2.5	4P (3D)2D
380.7058	-2.496	87985.628	2.5	D6S (1D)2P	380.7058	-2.496	87985.628	2.5	D6S (1D)2P	386.2654	-2.962	105127.770	2.5	5D (5D)4F	79246.170	1.5	4SP(5S)6P	79246.170	1.5	4SP(5S)6P
380.8188	-3.027	100749.810	2.5	5S (3F)2F	380.8188	-3.027	100749.810	2.5	5S (3F)2F	386.3386	-2.962	38164.194	2.5	D6S (1D)2D	64040.886	3.5	4P (3F)4G	64040.886	3.5	4P (3F)4G
380.8544	-4.552	85679.698	2.5	4D (5D)4G	380.8544	-4.552	85679.698	2.5	4D (5D)4G	386.3745	-4.619	105205.790	2.5	5D (5D)6G	79331.500	3.5	4SP(5S)6P	79331.500	3.5	4SP(5S)6P
380.9636	-4.843	73393.745	4.5	D5S2(7S)4F	380.9636	-4.843	73393.745	4.5	D5S2(7S)4F	386.4624	-3.842	98130.131	6.5	5S (3H)4H	72261.729	5.5	4P (1G)2H	72261.729	5.5	4P (1G)2H
380.9781	-1.768	103983.510	3.5	5S (3G)2G	380.9781	-1.768	103983.510	3.5	5S (3G)2G	386.4872	-3.877	36126.387	1.5	D6S (3D)2D	61974.933	1.5	4SP(7S)6P	61974.933	1.5	4SP(7S)6P
380.9820	-3.336	99332.102	4.5	5S (3H)2H	380.9820	-3.336	99332.102	4.5	5S (3H)2H	386.5876	-4.016	16369.360	3.5	D7 (5D)2G	42334.822	2.5	4P (5D)6F	42334.822	2.5	4P (5D)6F
380.9954	-3.129	73395.930	2.5	D5S2(7S)4F	380.9954	-3.129	73395.930	2.5	D5S2(7S)4F	386.7593	-3.877	36126.387	1.5	D6S (3D)2D	61974.933	1.5	4SP(7S)6P	61974.933	1.5	4SP(7S)6P
380.9964	-4.179	78577.280	4.5	D5S2(7S)2G	380.9964	-4.179	78577.280	4.5	D5S2(7S)2G	386.7952	-2.739	103983.510	3.5	5S (3G)2G	78137.364	3.5	4P (1D)2F	78137.364	3.5	4P (1D)2F
381.0216	-4.398	37227.326	0.5	D6S (1S)2S	381.0216	-4.398	37227.326	0.5	D6S (1S)2S	386.8474	-3.143	105127.770	2.5	5D (5D)4F	79285.110	2.5	4SP(5S)6P	79285.110	2.5	4SP(5S)6P
381.1354	-4.892	81734.750	3.5	D5S2(7S)2F	381.1354	-4.892	81734.750	3.5	D5S2(7S)2F	386.8976	-4.416	50075.910	1.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F	75915.215	2.5	4P (3D)2F
381.1926	-4.658	78525.407	2.5	5S (5D)6D	381.1926	-4.658	78525.407	2.5	5S (5D)6D	387.1578	-1.951	99573.225	4.5	5S (3F)4F	73751.282	0.5	4P (1I)2H	73751.282	0.5	4P (1I)2H
381.3253	-4.771	98568.912	3.5	5S (3H)4H	381.3253	-4.771	98568.912	3.5	5S (3H)4H	387.2767	-4.961	87985.628	2.5	4D (5D)4P	62171.615	3.5	4SP(7S)6P	62171.615	3.5	4SP(7S)6P
381.3659	-4.545	88189.030	0.5	4D (5D)4P	381.3659	-4.545	88189.030	0.5	4D (5D)4P	387.2979	-4.249	36252.918	2.5	D6S (3D)2D	62065.521	3.5	4P (3F)4F	62065.521	3.5	4P (3F)4F
381.3904	-3.831	60270.339	3.5	D5S2(7S)4D	381.3904	-3.831	60270.339	3.5	D5S2(7S)4D	387.5431	-2.717	105127.770	2.5	5D (5D)4D	79331.500	3.5	4SP(5S)6P	79331.500	3.5	4SP(5S)6P
381.4124	-2.316	38214.507	1.5	D6S (1D)2F	381.4124	-2.316	38214.507	1.5	D6S (1D)2F	387.5844	-3.505	98445.400	4.5	5S (3H)4H	72651.876	3.5	4P (3D)4D	72651.876	3.5	4P (3D)4D
381.6090	-4.718	86599.738	2.5	4D (5D)4F	381.6090	-4.718	86599.738	2.5	4D (5D)4F	387.7799	-3.022	105065.630	3.5	5D (5D)6G	79285.110	2.5	4SP(5S)6P	79285.110	2.5	4SP(5S)6P
381.7341	-1.787	99332.102	4.5	5S (3H)2H	381.7341	-1.787	99332.102	4.5	5S (3H)2H	387.9016	-4.011	50142.786	2.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F	75915.215	2.5	4P (3D)2F
381.8091	-4.660	98445.400	4.5	5S (3H)4H	381.8091	-4.660	98445.400	4.5	5S (3H)4H	388.2485	-4.781	77230.900	4.5	D5S2(7S)2H	102980.300	5.5	4SP(3I)4I	102980.300	5.5	4SP(3I)4I
382.0001	-4.334	105414.180	2.5	4D (3F)4G	382.0001	-4.334	105414.180	2.5	4D (3F)4G	388.3080	-8.030	16369.360	3.5	D7 (5D)2G	42114.818	4.5	4P (5D)6F	42114.818	4.5	4P (5D)6F
382.1399	-2.632	73492.215	3.5	D5S2(7S)4F	382.1399	-2.632	73492.215	3.5	D5S2(7S)4F	388.4676	-3.705	37227.326	0.5	D6S (1S)2S	62962.205	1.5	4P (3D)4D	62962.205	1.5	4P (3D)4D
382.1927	-4.013	18886.780	0.5	D7 (5D)2P	382.1927	-4.013	18886.780	0.5	D7 (5D)2P	388.4789	-4.057	105065.630	3.5	5D (5D)6G	79331.500	3.5	4SP(5S)6P	79331.500	3.5	4SP(5S)6P
382.2736	-4.366	81734.750	3.5	D5S2(7S)2F	382.2736	-4.366	81734.750	3.5	D5S2(7S)2F	388.5805	-4.867	50187.813	3.5	D6S (3F)4F	75915.215	2.5	4P (3D)2F	75915.215	2.5	4P (3D)2F
382.3986	-3.229	73492.215	3.5	D5S2(7S)4F	382.3986	-3.229	73492.215	3.5	D5S2(7S)4F	389.3653	-4.752	86710.837	1.5	4D (5D)4F	61035.287	0.5	4P (3H)4G	61035.287	0.5	4P (3H)4G
382.4035	-3.602	100749.810	2.5	5S (3F)2F	382.4035	-3.602	100749.810	2.5	5S (3F)2F	389.4633	-2.136	86710.837	1.5	4D (5D)4F	61041.748	2.5	4P (3H)4G	61041.748	2.5	4P (3H)4G
382.4929	-3.273	20830.582	2.5	D6S (3P)4P	382.4929	-3.273	20830.582	2.5	D6S (3P)4P	389.5527	-4.152	87985.628	2.5	4D (5D)4P	62322.431	3.5	4P (3H)2G	62322.431	3.5	4P (3H)2G
382.6900	-9.872	15844.650	4.5	D7 (5D)2G	382.6900	-9.872	15844.650	4.5	D7 (5D)2G	389.6103	-4.398	21308.040	1.5	D7 (5D)2D	46967.444	2.5	4P (5D)4D	46967.444	2.5	4P (5D)4D
382.7083	-2.426	38164.194	2.5	D6S (1D)2D	382.7083	-2.426	38164.194	2.5	D6S (1D)2D	389.6745	-4.740	78237.685	3.5	5S (5D)6D	52582.510	3.5	4SP(7S)8P	52582.510	3.5	4SP(7S)8P
382.7672	-3.362	36126.387	1.5	D6S (3D)2D	382.7672	-3.362	36126.387	1.5	D6S (3D											

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
399.0977	-1.574	104380.940	3.5	5D (5D)6F	79331.500	3.5	4SP(5S)6P	404.6807	-4.164	36252.918	2.5	D6S (3D)2D	60956.781	3.5	4P (3H)4G
399.1902	-2.848	73492.215	3.5	D5S2(7S)4F	98535.850	3.5	4SP(5D)4F	404.7286	-4.514	73637.340	1.5	D5S2(7S)4F	98338.280	1.5	4SP(5F)4S
399.2387	-3.036	87985.628	2.5	4D (5D)4F	62945.038	3.5	4P (3F)4D	404.8404	-4.491	98445.400	4.5	5S (3H)4H	71351.282	4.5	4P (1I)2H
399.5126	-3.562	87985.628	2.5	4D (5D)4F	62962.205	1.5	4P (3P)4D	404.8502	-4.495	85728.806	1.5	4D (5D)4S	70355.287	0.5	4P (3P)4P
399.6345	-3.183	48039.090	2.5	D7 (5D)2F	73054.881	2.5	4P (1G)2F	404.8750	-4.603	88157.116	1.5	4D (5D)4F	63465.109	1.5	4P (3F)4D
399.6809	-2.558	73492.215	3.5	D5S2(7S)4F	98505.100	2.5	4SP(5D)4D	404.8832	-2.238	44915.046	3.5	D6S (1F)2F	69606.552	3.5	4P (3G)2F
399.9082	-3.262	78185.030	3.5	D5S2(7S)2G	103183.700	3.5	4SP(3D)2F	404.8931	-3.190	98294.401	5.5	5S (3H)4H	73603.500	5.5	4P (1I)2H
399.9256	-2.297	73393.745	4.5	D5S2(7S)4F	98391.330	3.5	4SP(5D)4F	405.1212	-3.203	44929.550	2.5	D6S (1F)2F	69606.552	3.5	4P (3G)2F
400.2083	-3.654	22409.852	0.5	D6S (3P)4P	47389.779	1.5	4P (5D)4P	405.1751	-3.406	58631.531	4.5	D6S (1G)2G	83305.251	3.5	4P (1F)2G
400.2543	-2.001	48039.090	2.5	D7 (5D)2D	73016.147	3.5	4P (1G)2F	405.2475	-2.046	104000.810	3.5	5D (5D)6P	79331.500	3.5	4SP(5S)6P
400.4080	-4.229	86124.301	4.5	4D (5D)4F	61156.835	3.5	4P (3H)4H	405.4723	-3.384	85462.862	3.5	4D (5D)4G	60807.230	4.5	4P (3H)4G
400.4151	-3.576	36126.387	1.5	D6S (3D)2D	61093.413	2.5	4P (3P)2D	405.6265	-3.302	85048.602	1.5	4D (5D)4D	60402.342	2.5	4P (3P)4P
400.5482	-2.839	73395.930	2.5	D5S2(7S)4F	98354.660	2.5	4SP(5D)4F	405.6265	-3.302	85048.602	1.5	4D (5D)4D	60402.342	2.5	4P (3P)4P
400.7724	-3.346	47674.721	1.5	D7 (5D)2D	72619.490	2.5	4P (3D)4D	405.7461	-1.656	58666.258	3.5	D6S (1G)2G	83305.251	3.5	4P (1F)2G
400.8112	-4.001	73395.930	2.5	D5S2(7S)4F	98338.280	1.5	4SP(5P)4S	405.7633	-4.082	85679.698	2.5	4D (5D)4G	61041.748	2.5	4P (3H)4G
400.9098	-4.036	108804.667	3.5	5S (3D)4D	83868.450	2.5	4P (1F)2D	405.9018	-4.893	88189.030	0.5	4D (5D)4F	63559.488	0.5	4P (3F)4D
401.2454	-3.434	36126.387	1.5	D6S (3D)2D	61041.748	2.5	4P (3H)4G	405.9799	-4.848	86599.738	2.5	4D (5D)4F	61974.933	1.5	4SP(7S)6P
401.3495	-4.980	36126.387	1.5	D6S (3D)2D	61035.287	0.5	4P (3P)4P	406.0532	-4.338	100749.810	2.5	5S (3F)2F	76129.446	1.5	4P (1S)2P
401.4298	-4.757	36252.918	2.5	D6S (3D)2D	61156.835	3.5	4P (3H)4H	406.0742	-2.131	103950.590	4.5	5D (5D)6F	79331.500	3.5	4SP(5S)6P
401.4333	-4.502	86416.333	3.5	4D (5D)4F	61512.634	4.5	4P (3H)4I	406.1488	-4.929	38214.507	1.5	D6S (1D)2D	62829.075	0.5	4P (3P)4D
401.5208	-4.662	37227.326	0.5	D6S (1S)2S	62125.600	1.5	4P (3P)2D	406.1782	-2.229	48039.090	2.5	D7 (5D)2D	72651.876	3.5	4P (3D)4D
401.6367	-2.045	100492.020	3.5	5S (3F)2F	75600.931	3.5	4P (3D)2F	406.2705	-4.295	85172.800	0.5	4D (5D)4D	109780.000	1.5	280DD
401.7488	-3.249	88157.116	1.5	4D (5D)4F	63272.976	2.5	4P (3F)4D	406.4656	-4.464	85679.698	2.5	4D (5D)4G	61093.413	2.5	4P (3P)2D
401.8490	-5.911	18360.646	1.5	D7 (5D)2P	43238.586	2.5	4P (5D)6P	406.6170	-4.804	100492.020	3.5	5S (3F)2F	75915.215	2.5	4P (3D)2F
401.9110	-3.684	104120.270	2.5	5D (5D)6P	79246.170	1.5	4SP(5S)6P	406.9883	-3.076	47674.721	1.5	D7 (5D)2D	72238.513	2.5	4P (3D)4F
401.9181	-3.698	86599.738	2.5	4D (5D)4F	61726.077	3.5	4P (3P)4D	407.0020	-5.285	20516.960	2.5	D7 (5D)2D	45079.879	2.5	4P (5D)4F
402.0135	-4.389	73637.340	1.5	D5S2(7S)4F	98505.100	2.5	4SP(5D)4D	407.0630	-3.156	85184.734	4.5	5D (5D)4G	60625.449	5.5	4P (3H)4G
402.0994	-3.102	73492.215	3.5	D5S2(7S)4F	98354.660	2.5	4SP(5D)4F	407.0632	-3.368	86710.837	1.5	4D (5D)4F	62151.561	2.5	4P (3F)4F
402.1871	-4.541	83713.536	3.5	4D (5D)6D	108570.560	4.5	4SP(3G)4G	407.0734	-3.074	73637.340	1.5	D5S2(7S)4F	98196.000	1.5	4SP(5D)4F
402.3033	-4.748	47674.721	1.5	D7 (5D)2D	72524.566	1.5	4P (3D)4D	407.4719	-4.186	47674.721	1.5	D7 (5D)2D	72212.978	0.5	4P (3D)4F
402.4320	-4.116	98445.400	4.5	5S (3H)4H	73603.500	5.5	4P (1I)2H	407.4790	-3.785	86599.738	2.5	4D (5D)4F	62065.521	3.5	4P (3F)4F
402.4547	-2.130	36252.918	2.5	D6S (3D)2D	61093.413	2.5	4P (3P)2D	407.5954	-4.944	20516.960	2.5	D7 (5D)2D	45044.168	1.5	4P (5D)4D
402.5412	-2.412	104120.270	2.5	5D (5D)6P	79285.110	2.5	4SP(5S)6P	407.6050	-3.881	98130.131	6.5	5S (3H)4H	73603.500	5.5	4P (1I)2H
402.5503	-2.242	100749.810	2.5	5S (3F)2F	75915.215	2.5	4P (3D)2F	407.6207	-3.972	38164.194	2.5	D6S (1D)2D	62689.880	2.5	4P (3F)4D
402.8255	-3.745	98568.912	3.5	5S (3H)4H	73751.282	4.5	4P (1I)2H	407.6676	-4.057	85679.698	2.5	4D (5D)4G	61156.835	3.5	4P (3H)4H
403.1108	-3.328	73395.930	2.5	D5S2(7S)4F	98196.000	1.5	4SP(5D)4F	407.7066	-4.738	87985.628	2.5	4D (5D)4P	63465.109	1.5	4P (3F)4D
403.1442	-3.270	38164.194	2.5	D6S (1D)2D	62962.205	1.5	4P (3P)4D	407.8344	-4.675	83726.364	4.5	4D (5D)6D	108239.200	3.5	240DD
403.2935	-3.115	36252.918	2.5	D6S (3D)2D	61041.748	2.5	4P (3H)4G	407.9468	-3.883	85462.862	3.5	4D (5D)4G	60956.781	3.5	4P (3H)4G
403.2945	-2.370	104120.270	2.5	5D (5D)6P	79331.500	3.5	4SP(5S)6P	408.1434	-4.954	47674.721	1.5	D7 (5D)2D	72168.998	1.5	4P (3D)4F
403.4235	-3.641	38164.194	2.5	D6S (1D)2D	62945.038	3.5	4P (3F)4D	408.2901	-4.006	48039.090	2.5	D7 (5D)2D	72524.566	1.5	4P (3D)4D
403.4617	-4.642	54063.459	0.5	D6S (3P)2D	78841.960	0.5	4P (3D)2P	408.4793	-3.361	86599.738	2.5	4D (5D)4F	62125.600	1.5	4P (3P)2D
403.5538	-5.732	20516.960	2.5	D7 (5D)2D	45289.801	1.5	4P (5D)4F	408.4913	-4.610	85462.862	3.5	4D (5D)4G	60989.444	4.5	4P (3H)4H
403.6577	-4.485	78185.030	3.5	D5S2(7S)2G	102951.500	4.5	4SP(3I)4I	408.5730	-2.969	84870.863	1.5	4D (5D)4D	60402.342	2.5	4P (3P)4P
403.7755	-4.172	108630.429	5.5	5S (1I)2I	83871.184	4.5	4P (1F)2G	408.6098	-3.930	86710.837	1.5	4D (5D)4F	62244.520	1.5	4P (3F)4F
403.8038	-4.039	83726.364	4.5	4D (5D)6D	108483.870	5.5	4SP(3G)4G	408.7284	-4.932	20830.582	2.5	D6S (3P)4P	45289.801	1.5	4P (5D)4F
403.8449	-3.478	47674.721	1.5	D7 (5D)2D	72429.711	0.5	4P (3D)4D	408.8755	-4.892	22939.358	2.5	D6S (3F)4F	47389.779	1.5	4P (5D)4P
403.9639	-4.431	38214.507	1.5	D6S (1D)2D	62962.205	1.5	4P (3P)4D	408.9130	-4.468	86599.738	2.5	4D (5D)4F	61156.835	3.5	4P (3F)4F
404.1641	-3.284	44915.046	3.5	D6S (1F)2F	69650.484	2.5	4P (3G)2F	409.1783	-4.582	84296.830	5.5	4D (5D)6G	108729.160	6.5	4SP(3G)4H
404.1847	-7.631	18886.780	0.5	D7 (5D)2P	43620.957	1.5	4P (5D)2P	409.3229	-3.033	54063.459	0.5	D6S (3F)2P	78487.153	1.5	4P (1D)2D
404.2301	-4.186	85048.602	1.5	4D (5D)4D	61093.413	2.5	4P (5D)6P	409.3662	-3.459	85462.862	3.5	4D (5D)4G	61041.748	2.5	4P (3H)4G
404.3524	-3.839	88189.030	0.5	4D (5D)4D	109780.000	1.5	280DD	409.4012	-4.188	50187.813	3.5	D6S (3F)4F	74606.841	2.5	4P (3D)2D
404.3688	-3.729	85679.698	2.5	4D (5D)4G	60956.781	3.5	4P (3H)4G	409.4341	-4.989	83713.536	3.5	4D (5D)6D	108130.600	2.5	220DD
404.4012	-2.520	44929.550	2.5	D6S (1F)2F	69650.484	2.5	4P (3G)2F	409.6697	-4.777	78577.280	4.5	D5S2(7S)2G	102980.300	5.5	4SP(3I)4I
404.4603	-3.751	73637.340	1.5	D5S2(7S)4F	98354.660	2.5	4SP(5D)4F	409.7502	-2.271	86124.301	4.5	4D (5D)4F	61726.077	3.5	4P (3F)4D
404.4869	-2.784	104000.810	3.5	5D (5D)6P	79285.110	2.5	4SP(5S)6P	409.7869	-4.623	85728.806	1.5	4D (5D)4S	61332.764	1.5	4P (3P)4P
404.5367	-4.861	87985.628	2.5	4D (5D)4F	63272.976	2.5	4P (3F)4D	409.8209	-3.418	50212.826	2.5	D6S (3P)4P	74606.841	2.5	4P (3D)2D
404.6661	-3.000	102842.119	4.5	5S (3G)4G	78137.364	3.5	4P (1D)2F	410.0985	-3.664	85184.734	4.5	4D (5D)4G	60807.230	4.5	4P (3H)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
410.1731	-3.286	54870.528	2.5	D6S (3F)2F	79243.600	1.5	4P (1D)2P	416.0445	-4.044	83136.487	3.5	4D (5D)6F	107165.600	3.5	170DD
410.2341	-4.784	85462.862	3.5	4D (5D)4G	61093.413	2.5	4P (3F)2D	416.0623	-4.135	22939.358	2.5	D6S (3F)4F	46967.444	2.5	4P (5D)4P
410.4078	-4.476	73492.215	3.5	D5S2(7S)4F	97851.350	4.5	4P (1G)2H	416.1022	-3.747	84863.351	5.5	4D (5D)4G	60837.569	6.5	4P (3H)4H
410.4188	-5.422	23031.300	1.5	D6S (3F)4F	47389.779	1.5	4P (5D)4P	416.2106	-4.448	103265.694	0.5	6S (5D)4D	79246.176	1.5	4SP(5S)6P
410.4738	-4.091	86599.738	2.5	4D (5D)4F	74498.057	1.5	4P (3D)2D	416.4303	-4.741	85048.602	1.5	4D (5D)4D	61041.748	2.5	4P (3H)4G
410.5481	-4.049	86416.333	3.5	4D (5D)4F	62244.520	1.5	4P (3F)4F	416.4516	-4.703	84863.351	5.5	4D (5D)4G	108868.980	4.5	4SP(3G)4H
410.7088	-4.910	54902.315	1.5	D6S (3P)2P	62065.521	3.5	4P (3F)4D	416.4809	-3.532	49039.099	2.5	D7 (5D)2D	72043.026	1.5	4P (3D)2F
410.8448	-3.072	86416.333	3.5	4D (5D)4F	79243.600	1.5	4P (1D)2P	416.4910	-4.820	99118.569	1.5	5S (3F)4F	75915.215	2.5	4P (3D)4F
410.9403	-4.417	98294.401	5.5	5S (3H)4H	73966.832	6.5	4P (11)21	416.9761	-4.655	60384.370	0.5	D5S2(7S)4D	84359.800	1.5	4P (1F)2D
410.9899	-4.177	98294.401	5.5	5S (3H)4H	73969.767	5.5	4P (11)21	416.9979	-5.567	18360.646	1.5	D7 (5D)2P	42334.822	2.5	4P (5D)6F
411.1877	-2.415	48039.090	2.5	D7 (5D)2D	72352.024	3.5	4P (3D)4F	417.0246	-4.269	84266.556	3.5	4D (5D)6P	108239.200	3.5	240DD
411.3388	-4.842	84266.556	3.5	4D (5D)6P	108570.560	4.5	4SP(3G)4G	417.0307	-4.009	99573.225	4.5	5S (3F)4F	75600.931	3.5	4P (3D)2F
411.4550	-3.975	85184.734	4.5	4D (5D)4G	60887.598	5.5	4P (3H)4H	417.1369	-3.320	86124.301	4.5	4D (5D)4F	62158.110	4.5	4P (3F)4F
411.6970	-3.702	84685.198	3.5	4D (5D)4D	60402.342	2.5	4P (3F)4F	417.2202	-4.284	38164.194	2.5	D6S (1D)2D	62125.600	1.5	4P (3P)2D
411.7911	-3.023	86599.738	2.5	4D (5D)4F	108809.310	5.5	4SP(3G)4H	417.3285	-3.332	85048.602	1.5	4D (5D)4D	61093.413	2.5	4P (3P)2D
411.7915	-4.497	84527.778	4.5	4D (5D)4F	62322.431	3.5	4P (3H)2G	417.3461	-2.586	20301.300	1.5	D6S (3F)4F	44784.767	2.5	4P (5D)4D
411.9524	-4.771	20516.960	2.5	D7 (5D)2D	44784.761	2.5	4P (5D)4D	417.3558	-4.755	85679.698	2.5	4D (5D)4G	44784.767	2.5	4P (3P)4D
412.0038	-3.243	86416.333	3.5	4D (5D)4F	62151.561	2.5	4P (3F)4F	417.4149	-4.129	85462.862	3.5	4D (5D)4G	61512.634	4.5	4P (3H)4I
412.0158	-3.797	78185.030	3.5	D5S2(7S)2G	102449.100	2.5	4SP(3D)2D	417.4532	-3.698	20805.770	4.5	D7 (5D)2H	44753.799	3.5	4P (5D)4F
412.1151	-2.993	86416.333	3.5	4D (5D)4F	62158.110	4.5	4P (3F)4F	417.4893	-3.587	84863.351	5.5	4D (5D)4G	108809.310	5.5	4SP(3C)4H
412.2668	-3.656	20830.582	2.5	D6S (3P)4F	45079.879	2.5	4P (5D)4F	417.4905	-3.917	84685.198	3.5	4D (5D)4D	108631.090	3.5	4SP(3G)4G
412.4606	-3.509	84863.351	5.5	4D (5D)4G	60625.449	5.5	4P (3H)4G	417.5105	-4.344	87985.628	2.5	4D (5D)4P	64040.886	3.5	4P (3F)4G
412.4787	-5.070	20516.960	2.5	D7 (5D)2D	44753.799	3.5	4P (5D)4F	417.5994	-3.914	54902.315	1.5	D6S (3P)2P	78841.960	0.5	4P (1D)2P
412.6300	-3.101	85184.734	4.5	4D (5D)4G	60956.781	3.5	4P (3H)4G	417.6446	-4.866	38214.507	1.5	D6S (1D)2D	62151.561	2.5	4P (3F)4F
412.7409	-4.820	84685.198	3.5	4D (5D)4D	108906.640	3.5	4SP(3G)4H	417.6605	-6.264	23031.300	1.5	D6S (3F)4F	46967.444	2.5	4P (5D)4P
412.8748	-3.555	20830.582	2.5	D6S (3P)4F	45044.168	1.5	4P (5D)4D	417.7618	-3.983	73359.930	2.5	D5S2(7S)4F	97326.270	1.5	4SP(3P)2P
413.1165	-4.571	48039.090	2.5	D7 (5D)2D	72238.513	2.5	4P (3D)4F	417.7692	-3.855	20516.960	2.5	D7 (5D)2D	44446.878	3.5	4P (5D)4D
413.1870	-4.776	85184.734	4.5	4D (5D)4G	60989.444	4.5	4P (3H)4H	417.8442	-3.790	48039.090	2.5	D7 (5D)2D	71964.710	2.5	4P (3D)4P
413.3280	-4.584	84296.830	5.5	4D (5D)6G	108483.870	5.5	4SP(3G)4G	417.8626	-2.898	84326.912	2.5	4D (5D)6P	60402.342	2.5	4P (5D)4P
413.3300	-4.132	82978.677	4.5	4D (5D)6F	107165.600	3.5	170DD	417.8862	-2.898	20830.582	2.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F
413.3837	-3.739	84685.198	3.5	4D (5D)4D	108868.980	4.5	4SP(3G)4H	417.9353	-4.613	84710.685	3.5	4D (5D)6G	108631.090	3.5	4SP(3G)4G
413.7341	-4.146	98130.131	6.5	5S (3H)4H	73966.832	6.5	4P (11)21	418.0458	-3.463	84870.863	2.5	4D (5D)4D	60956.781	3.5	4P (3H)4G
413.7471	-4.461	85495.304	2.5	4D (5D)6S	61332.764	1.5	4P (3P)4P	418.0981	-3.672	38214.507	1.5	D6S (1D)2D	62125.600	1.5	4P (3P)2D
413.8198	-4.583	84710.685	3.5	4D (5D)6G	108868.980	4.5	4SP(3G)4H	418.1197	-3.766	86599.738	2.5	4D (5D)4F	62168.980	2.5	4P (3P)4D
413.8208	-3.355	38164.194	2.5	D6S (1D)2D	62322.431	3.5	4P (3H)2G	418.1323	-4.284	84870.863	2.5	4D (5D)4D	108780.000	1.5	270DD
413.8405	-4.560	22810.357	3.5	D6S (3F)4F	46967.444	2.5	4P (5D)4F	418.1377	-3.935	99824.045	2.5	5S (3F)4F	75915.215	2.5	4P (3D)2F
413.9718	-3.826	36252.918	2.5	D6S (3D)2D	60402.342	2.5	4P (3P)4P	418.2317	-4.644	84710.685	3.5	4D (5D)6G	60807.230	4.5	4P (3H)4G
414.1759	-3.890	85172.809	0.5	4D (5D)4D	61035.287	0.5	4P (3P)4P	418.2689	-3.703	38164.194	2.5	D6S (1D)2D	62065.521	3.5	4P (3F)4F
414.3066	-4.397	48039.090	2.5	D7 (5D)2D	72168.998	1.5	4P (3D)4F	418.3200	-5.080	21308.040	1.5	D7 (5D)2D	45206.450	0.5	4P (5D)4D
414.7272	-3.710	73227.326	0.5	D6S (1S)2S	61332.764	1.5	4P (3P)4P	418.4285	-5.290	20340.300	5.5	D7 (5D)2H	44232.512	4.5	4P (5D)4F
414.8156	-4.440	85679.698	2.5	4D (5D)4G	109780.000	1.5	280DD	418.5022	-3.546	83308.194	2.5	4D (5D)6F	107196.200	2.5	180DD
414.9258	-4.840	86416.333	3.5	4D (5D)4F	62322.431	3.5	4P (3H)2G	418.5485	-3.227	84685.198	3.5	4D (5D)4D	108570.560	4.5	4SP(3G)4G
415.0251	-2.992	49100.976	0.5	D6S (3P)4F	73189.110	1.5	4P (3D)2P	418.5632	-3.410	82978.677	4.5	4D (5D)6F	106863.200	3.5	160DD
415.0377	-3.492	99688.337	3.5	5S (3F)4F	75600.931	3.5	4P (3D)2P	418.6116	-3.138	86710.837	1.5	4D (5D)4F	62829.075	0.5	4P (3P)4D
415.0451	-4.998	85184.734	4.5	4D (5D)4G	109271.710	5.5	4SP(3I)2I	418.6781	-3.295	84685.198	3.5	4D (5D)4D	60807.230	4.5	4P (3H)4G
415.0367	-2.981	49100.976	0.5	D6S (3P)4F	73187.280	0.5	4P (3D)2P	418.7493	-4.313	84863.351	5.5	4D (5D)4G	60989.444	1.5	4P (3H)4H
415.1795	-7.180	18360.646	1.5	D7 (5D)2P	42439.822	0.5	4P (5D)6F	418.7788	-3.702	103118.400	1.5	6S (5D)4D	79246.176	1.5	4SP(5S)6P
415.3008	-5.389	23317.633	2.5	D5S2(7S)6S	47389.779	1.5	4P (5D)4P	418.8914	-3.123	84863.351	5.5	4D (5D)4G	108729.160	6.5	4SP(3C)4H
415.3430	-4.881	83136.487	1.5	4D (5D)4F	64087.418	2.5	4P (5D)4P	418.9194	-4.613	84266.556	3.5	4D (5D)6P	60402.342	2.5	4P (3P)4P
415.5154	-3.866	86124.301	4.5	4D (5D)6F	107196.200	2.5	180DD	418.9280	-4.392	54273.641	4.5	D5S2(7S)4G	78137.364	3.5	4P (1D)2F
415.5315	-4.905	86124.301	4.5	4D (5D)4F	62065.521	3.5	4P (3F)4F	418.9956	-4.920	84710.685	3.5	4D (5D)6G	108570.560	4.5	4SP(3G)4G
415.5774	-3.042	84863.351	5.5	4D (5D)4G	60807.230	4.5	4P (3H)4G	419.0390	-4.455	83308.194	2.5	4D (5D)6F	107165.600	3.5	170DD
415.6626	-4.572	85728.806	1.5	4D (5D)4S	109780.000	1.5	280DD	419.3441	-3.664	85172.809	0.5	4D (5D)4D	61332.764	1.5	4P (3P)4P
415.8080	-4.586	84527.778	4.5	4D (5D)6G	108570.560	4.5	4SP(3G)4G	419.4630	-4.030	103118.400	1.5	6S (5D)4D	79285.110	2.5	4P (5S)6P
415.8355	-4.320	86124.301	4.5	4D (5D)4F	62083.108	4.5	4P (3H)2G	419.5365	-3.599	84870.863	2.5	4D (5D)4D	61041.748	2.5	4P (3H)4G
415.8448	-5.947	18360.646	1.5	D7 (5D)2P	42401.302	1.5	4P (5D)6F	419.6914	-3.937	54870.528	2.5	D6S (3F)2F	78690.846	2.5	4P (1D)2D
415.9292	-4.235	84870.863	2.5	4D (5D)4D	108906.640	3.5	4SP(3G)4H	419.8800	-4.567	103094.730	3.5	4S5S(7S)8S	79285.110	2.5	4SP(5S)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	
419.9093	-4.159	37227.326	0.5	D6S (1S)2S	61035.287	0.5	4P (3P)4P	102802.312	2.5	6S (5D)4D	79285.110	2.5	4SP (5S)6P	108371.700	1.5	250DD	108191.600	1.5	230DD	108371.700	1.5	250DD	108191.600	1.5	230DD
420.0167	-3.914	86124.301	4.5	4D (5D)4F	62322.431	3.5	4P (3H)2P	18886.780	0.5	D7 (5D)2P	42401.302	1.5	4P (5D)6F	108373.800	3.5	260DD	107196.200	2.5	180DD	108373.800	3.5	260DD	107196.200	2.5	180DD
420.2349	-4.370	80177.975	1.5	5S (5D)4D	103967.490	0.5	4SP (3P)2S	84870.863	2.5	4D (5D)4D	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.2522	-2.400	54902.315	1.5	D6S (3P)2P	78690.846	2.5	4P (1D)2D	84870.863	2.5	4D (5D)4D	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.2859	-2.726	54904.222	3.5	D6S (3F)2F	78690.846	2.5	4P (1D)2D	84870.863	2.5	4D (5D)4D	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.4481	-3.147	84870.863	2.5	4D (5D)4F	61093.413	2.5	4P (3P)2D	84870.863	2.5	4D (5D)4D	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.5473	-6.012	21308.040	1.5	D7 (5D)2D	45079.879	2.5	4P (5D)4F	84870.863	2.5	4D (5D)4D	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.6997	-4.315	103094.730	3.5	4SP(5S)6P	79331.500	3.5	4SP(5S)6P	84870.863	2.5	4P (5D)4F	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.7529	-3.466	84870.863	2.5	4D (5D)4D	108631.090	3.5	4SP(3G)4G	84870.863	2.5	4P (5D)4F	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.7855	-4.331	84870.863	2.5	4D (5D)4D	108629.250	3.5	4SP(3G)4G	84870.863	2.5	4P (5D)4F	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.8654	-4.899	85728.806	1.5	4D (5D)4S	61974.933	1.5	4SP(7S)6P	85728.806	1.5	4D (5D)4F	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
420.9583	-3.799	86710.837	1.5	4D (5D)4F	62962.205	1.5	4P (3P)4D	86710.837	1.5	4D (5D)4F	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD	108373.800	3.5	260DD
421.1729	-3.884	83459.670	1.5	4D (5D)6F	107196.200	2.5	180DD	83459.670	1.5	4D (5D)6F	107196.200	2.5	180DD	83459.670	1.5	4D (5D)6F	107196.200	2.5	180DD	83459.670	1.5	4D (5D)6F	107196.200	2.5	180DD
421.1801	-5.136	21308.040	1.5	D7 (5D)2D	45044.168	1.5	4P (5D)4D	83459.670	1.5	4D (5D)6F	107196.200	2.5	180DD	83459.670	1.5	4D (5D)6F	107196.200	2.5	180DD	83459.670	1.5	4D (5D)6F	107196.200	2.5	180DD
421.2585	-4.702	88157.116	1.5	4D (5D)4P	64425.408	2.5	4P (3F)2F	88157.116	1.5	4D (5D)4P	64425.408	2.5	4P (3F)2F	88157.116	1.5	4D (5D)4P	64425.408	2.5	4P (3F)2F	88157.116	1.5	4D (5D)4P	64425.408	2.5	4P (3F)2F
421.2640	-3.751	85048.602	1.5	4D (5D)4D	108780.000	1.5	270DD	85048.602	1.5	4D (5D)4D	108780.000	1.5	270DD	85048.602	1.5	4D (5D)4D	108780.000	1.5	270DD	85048.602	1.5	4D (5D)4D	108780.000	1.5	270DD
421.3169	-4.355	84685.198	3.5	4D (5D)4D	60956.781	3.5	4P (3H)4G	84685.198	3.5	4D (5D)4D	60956.781	3.5	4P (3H)4G	84685.198	3.5	4D (5D)4D	60956.781	3.5	4P (3H)4G	84685.198	3.5	4D (5D)4D	60956.781	3.5	4P (3H)4G
421.3472	-3.328	83136.487	3.5	4D (5D)6F	106863.200	3.5	160DD	83136.487	3.5	4D (5D)6F	106863.200	3.5	160DD	83136.487	3.5	4D (5D)6F	106863.200	3.5	160DD	83136.487	3.5	4D (5D)6F	106863.200	3.5	160DD
421.3518	-2.547	86416.333	3.5	4D (5D)4F	62689.880	2.5	4P (3P)4D	86416.333	3.5	4D (5D)4F	62689.880	2.5	4P (3P)4D	86416.333	3.5	4D (5D)4F	62689.880	2.5	4P (3P)4D	86416.333	3.5	4D (5D)4F	62689.880	2.5	4P (3P)4D
421.4326	-4.647	85184.734	4.5	4D (5D)4G	108909.444	4.5	4P (3H)4H	85184.734	4.5	4D (5D)4G	108909.444	4.5	4P (3H)4H	85184.734	4.5	4D (5D)4G	108909.444	4.5	4P (3H)4H	85184.734	4.5	4D (5D)4G	108909.444	4.5	4P (3H)4H
421.5404	-3.478	85048.602	1.5	4D (5D)4D	61332.764	1.5	4P (3P)4P	85048.602	1.5	4D (5D)4D	61332.764	1.5	4P (3P)4P	85048.602	1.5	4D (5D)4D	61332.764	1.5	4P (3P)4P	85048.602	1.5	4D (5D)4D	61332.764	1.5	4P (3P)4P
421.8349	-3.988	87985.628	2.5	4D (5D)6P	64286.328	3.5	4P (3F)2F	87985.628	2.5	4D (5D)6P	64286.328	3.5	4P (3F)2F	87985.628	2.5	4D (5D)6P	64286.328	3.5	4P (3F)2F	87985.628	2.5	4D (5D)6P	64286.328	3.5	4P (3F)2F
421.8551	-4.998	84266.556	3.5	4D (5D)6F	107964.700	4.5	210DD	84266.556	3.5	4D (5D)6F	107964.700	4.5	210DD	84266.556	3.5	4D (5D)6F	107964.700	4.5	210DD	84266.556	3.5	4D (5D)6F	107964.700	4.5	210DD
421.8977	-4.264	84685.198	3.5	4D (5D)4D	60989.444	4.5	4P (3H)4H	84685.198	3.5	4D (5D)4D	60989.444	4.5	4P (3H)4H	84685.198	3.5	4D (5D)4D	60989.444	4.5	4P (3H)4H	84685.198	3.5	4D (5D)4D	60989.444	4.5	4P (3H)4H
422.1027	-3.434	85184.734	4.5	4D (5D)4G	108868.980	4.5	4SP(3G)4H	85184.734	4.5	4D (5D)4G	108868.980	4.5	4SP(3G)4H	85184.734	4.5	4D (5D)4G	108868.980	4.5	4SP(3G)4H	85184.734	4.5	4D (5D)4G	108868.980	4.5	4SP(3G)4H
422.1396	-3.126	49506.934	1.5	D6S (3P)4P	73189.110	1.5	4P (3D)2P	49506.934	1.5	D6S (3P)4P	73189.110	1.5	4P (3D)2P	49506.934	1.5	D6S (3P)4P	73189.110	1.5	4P (3D)2P	49506.934	1.5	D6S (3P)4P	73189.110	1.5	4P (3D)2P
422.1722	-3.850	49506.934	1.5	4D (5D)4S	73187.280	0.5	4P (3D)2P	49506.934	1.5	4D (5D)4S	73187.280	0.5	4P (3D)2P	49506.934	1.5	4D (5D)4S	73187.280	0.5	4P (3D)2P	49506.934	1.5	4D (5D)4S	73187.280	0.5	4P (3D)2P
422.1823	-4.646	85728.806	1.5	4D (5D)4S	62049.025	2.5	4SP(7S)6P	85728.806	1.5	4D (5D)4S	62049.025	2.5	4SP(7S)6P	85728.806	1.5	4D (5D)4S	62049.025	2.5	4SP(7S)6P	85728.806	1.5	4D (5D)4S	62049.025	2.5	4SP(7S)6P
422.3948	-4.062	84296.830	5.5	4D (5D)6G	107964.700	4.5	210DD	84296.830	5.5	4D (5D)6G	107964.700	4.5	210DD	84296.830	5.5	4D (5D)6G	107964.700	4.5	210DD	84296.830	5.5	4D (5D)6G	107964.700	4.5	210DD
422.6299	-3.915	86599.738	2.5	4D (5D)4F	62945.038	3.5	4P (3F)4D	86599.738	2.5	4D (5D)4F	62945.038	3.5	4P (3F)4D	86599.738	2.5	4D (5D)4F	62945.038	3.5	4P (3F)4D	86599.738	2.5	4D (5D)4F	62945.038	3.5	4P (3F)4D
422.7173	-5.075	23317.633	2.5	D5S2(7S)6S	46967.444	2.5	4P (5D)4P	23317.633	2.5	D5S2(7S)6S	46967.444	2.5	4P (5D)4P	23317.633	2.5	D5S2(7S)6S	46967.444	2.5	4P (5D)4P	23317.633	2.5	D5S2(7S)6S	46967.444	2.5	4P (5D)4P
422.8310	-4.454	84685.198	3.5	4D (5D)4D	61041.748	2.5	4P (3H)4G	84685.198	3.5	4D (5D)4D	61041.748	2.5	4P (3H)4G	84685.198	3.5	4D (5D)4D	61041.748	2.5	4P (3H)4G	84685.198	3.5	4D (5D)4D	61041.748	2.5	4P (3H)4G
422.8729	-7.112	20805.170	4.5	D7 (5D)2H	44446.878	3.5	4P (3H)4D	20805.170	4.5	D7 (5D)2H	44446.878	3.5	4P (3H)4D	20805.170	4.5	D7 (5D)2H	44446.878	3.5	4P (3H)4D	20805.170	4.5	D7 (5D)2H	44446.878	3.5	4P (3H)4D
422.9369	-2.872	86599.738	2.5	4D (5D)4F	62962.205	1.5	4P (3P)4D	86599.738	2.5	4D (5D)4F	62962.205	1.5	4P (3P)4D	86599.738	2.5	4D (5D)4F	62962.205	1.5	4P (3P)4D	86599.738	2.5	4D (5D)4F	62962.205	1.5	4P (3P)4D
423.1689	-2.788	85184.734	4.5	4D (5D)4G	108809.310	5.5	4SP(3G)4H	85184.734	4.5	4D (5D)4G	108809.310	5.5	4SP(3G)4H	85184.734	4.5	4D (5D)4G	108809.310	5.5	4SP(3G)4H	85184.734	4.5	4D (5D)4G	108809.310	5.5	4SP(3G)4H
423.2244	-4.505	80346.016	0.5	5S (5D)4D	103967.490	0.5	4SP(3P)2S	80346.016	0.5	5S (5D)4D	103967.490	0.5	4SP(3P)2S	80346.016	0.5	5S (5D)4D	103967.490	0.5	4SP(3P)2S	80346.016	0.5	5S (5D)4D	103967.490	0.5	4SP(3P)2S
423.2415	-3.163	84863.351	5.5	4D (5D)4G	108487.870	5.5	4SP(3G)4G	84863.351	5.5	4D (5D)4G	108487.870	5.5	4SP(3G)4G	84863.351	5.5	4D (5D)4G									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
438.8536	-2.907	84863.351	5.5	4D (5D)4G	62083.108	4.5	4P (3H)2G	444.5112	-3.352	86416.333	3.5	4D (5D)4F
438.8589	-3.732	85184.734	4.5	4D (5D)4G	107964.700	4.5	210DD	444.5252	-8.024	16369.360	3.5	D7 (5D)2G
438.9935	-4.543	85462.862	3.5	4D (5D)4G	62689.880	2.5	4P (3P)4D	444.6237	-3.153	48039.090	2.5	D7 (5D)2D
439.1166	-4.517	85728.806	1.5	4D (5D)4S	62962.205	1.5	4P (3P)4D	444.7802	-3.461	50142.786	2.5	D6S (3F)4F
439.4507	-2.586	100492.020	3.5	5S (3F)2F	77742.730	2.5	4P (1D)2F	444.9616	-1.951	86416.333	3.5	4D (5D)4F
439.5181	-1.725	102030.912	3.5	6S (5D)6D	79285.110	2.5	4SP(5S)6P	445.0305	-2.995	50187.813	3.5	D6S (3F)4F
439.5285	-3.549	84870.863	2.5	6S (5D)6D	62125.600	1.5	4P (3P)2D	445.0547	-4.035	50187.813	3.5	D6S (3F)4F
439.5398	-3.094	86124.301	4.5	4D (5D)4F	108868.980	4.5	4SP(3G)4H	445.0557	-4.138	85728.806	1.5	4D (5D)4S
439.7277	-6.010	21711.917	3.5	D6S (3H)4H	44446.878	3.5	4P (5D)4D	445.0663	-4.911	84527.778	4.5	4D (5D)6G
439.7931	-3.954	49506.934	1.5	D6S (3P)4F	72238.513	2.5	4P (3D)4F	445.0690	-3.128	73395.930	2.5	D5S2(7S)4F
439.9165	-3.400	73492.215	3.5	D5S2(7S)4F	96217.420	3.5	4SP(5P)4D	445.1551	-1.989	49506.934	1.5	D6S (3P)4F
439.9858	-6.714	20516.960	2.5	D7 (5D)2D	42338.586	2.5	4P (5D)6P	445.2568	-2.198	86416.333	3.5	4D (5D)4F
440.0308	-3.234	84870.863	2.5	4D (5D)4D	62151.561	2.5	4P (3F)4F	445.2914	-3.918	85679.698	2.5	4D (5D)4G
440.0658	-4.314	85679.698	2.5	4D (5D)4G	62962.205	1.5	4P (3P)4D	445.3205	-1.934	84424.370	1.5	4D (5D)6P
440.2877	-2.227	49506.934	1.5	D6S (3P)4F	72212.978	0.5	4P (3D)4P	445.3360	-3.871	50715.910	1.5	D6S (3F)4F
440.3033	-2.474	84863.351	5.5	4D (5D)4G	62158.110	4.5	4P (3F)4F	445.3835	-2.559	86124.301	4.5	4D (5D)4F
440.3687	-2.683	85184.734	4.5	4D (5D)4G	107868.600	3.5	200DD	445.5266	-2.328	50212.826	2.5	D6S (3P)4F
440.4163	-2.014	102030.912	3.5	6S (5D)6D	79331.500	3.5	4SP(5S)6P	445.5846	-4.243	37277.326	0.5	D6S (1S)2S
440.4195	-3.811	84870.863	2.5	4D (5D)4D	62171.615	3.5	4SP(7S)6P	445.6731	-3.610	50187.813	3.5	D6S (3F)4F
440.5194	-4.240	85679.698	2.5	4D (5D)4G	108373.800	3.5	260DD	445.8303	-3.410	85462.862	3.5	4D (5D)4G
440.5602	-3.189	85679.698	2.5	4D (5D)4G	108371.700	1.5	250DD	445.8590	-3.151	77230.900	4.5	D5S2(7S)2H
440.6960	-1.938	86124.301	4.5	4D (5D)4F	10809.310	5.5	4SP(3G)4H	446.1439	-4.311	20830.582	2.5	D6S (3P)4F
441.0205	-4.842	73393.745	4.5	D5S2(7S)4F	96062.060	5.5	4SP(3G)2H	446.1694	-4.244	85679.698	2.5	4D (5D)4G
441.0318	-3.209	85462.862	3.5	4D (5D)4G	108130.600	2.5	220DD	446.1706	-2.165	50212.826	2.5	D6S (3P)4F
441.1422	-4.727	49506.934	1.5	D6S (3P)4F	72168.998	1.5	4P (3D)4F	446.2113	-2.939	77230.900	4.5	D5S2(7S)2H
441.1500	-4.378	84710.685	3.5	4D (5D)6G	62049.025	2.5	4SP(7S)6P	446.2676	-4.852	85728.806	1.5	4D (5D)4F
441.3051	-3.690	98568.912	3.5	5S (3H)4H	75915.215	2.5	4P (3D)2F	446.6666	-3.840	50142.786	2.5	D6S (3F)4F
441.3601	-4.020	21581.638	4.5	D6S (3H)4H	44232.512	4.5	4P (5D)4F	446.7931	-2.716	86416.333	3.5	4D (5D)4F
441.5302	-3.773	73637.340	1.5	D5S2(7S)4F	96279.490	2.5	4SP(3G)2F	446.7951	-2.044	84424.370	1.5	4D (5D)6P
441.6468	-2.688	84685.198	3.5	4D (5D)4D	62049.025	2.5	4SP(7S)6P	446.9620	-1.367	101698.489	4.5	6S (5D)6D
441.6830	-2.603	22409.852	0.5	D6S (3P)4F	45044.168	1.5	4P (5D)4D	447.0464	-3.561	84685.198	3.5	4D (5D)4F
441.8957	-2.190	86710.837	1.5	4D (5D)4D	64087.418	1.5	4P (3F)4G	447.1103	-1.287	86124.301	4.5	4D (5D)4D
441.9688	-3.098	84685.198	3.5	4D (5D)4D	62065.521	3.5	4P (3F)4F	447.1273	-2.550	85048.602	1.5	4D (5D)4D
442.0733	-7.243	15844.650	4.5	D7 (5D)2G	38458.981	4.5	4P (5D)6D	447.1347	-4.370	73637.340	1.5	D5S2(7S)4F
442.1102	-3.807	100749.810	2.5	5S (3F)2F	78137.364	3.5	4P (1D)2F	447.1785	-4.286	84527.778	4.5	4D (5D)6G
442.3128	-4.581	84685.198	3.5	4D (5D)4D	62083.108	4.5	4P (3H)2G	447.2086	-2.186	100492.020	3.5	5S (3F)2F
442.3584	-3.254	73395.930	2.5	D5S2(7S)4F	61726.077	3.5	4P (3P)4D	447.2257	-4.025	50075.910	1.5	D6S (3F)4F
442.4194	-3.848	84266.556	3.5	4D (5D)6P	95995.690	2.5	4SP(5P)4D	447.2372	-4.841	82978.677	4.5	4D (5D)6F
442.7945	-1.865	77230.900	4.5	D5S2(7S)2H	106863.200	3.5	160DD	447.2622	-1.876	84326.912	2.5	4D (5D)6P
443.1552	-4.796	84710.685	3.5	4D (5D)6G	62151.561	2.5	4P (3F)4F	447.2929	-4.762	22939.358	2.5	D6S (3F)4F
443.1605	-2.132	86599.738	2.5	4D (5D)4F	62940.886	3.5	4P (3F)4G	447.4164	-3.298	44929.550	2.5	D6S (1F)2F
443.3293	-4.621	85495.304	2.5	4D (5D)6S	62945.038	3.5	4P (3F)4D	447.4272	-2.912	85172.809	0.5	4D (5D)4D
443.3653	-4.816	84870.863	2.5	4D (5D)4D	62322.431	3.5	4P (3H)2G	447.7173	-4.904	83136.487	3.5	4D (5D)6F
443.5218	-2.844	84266.556	3.5	4D (5D)6P	61726.077	3.5	4P (3P)4D	447.7242	-4.501	86416.333	3.5	4D (5D)4F
443.6081	-3.866	49506.934	1.5	D6S (3P)4F	72043.026	1.5	4P (3D)4P	447.8645	-3.625	108804.667	3.5	5S (3D)4D
443.6564	-4.362	84685.198	3.5	4D (5D)4D	62151.561	2.5	4P (3F)4F	448.0356	-2.667	86599.738	2.5	4D (5D)4F
443.7854	-4.248	84685.198	3.5	4D (5D)4D	62158.110	4.5	4P (3F)4F	448.0688	-2.484	21308.040	1.5	D7 (5D)2D
443.9134	-5.309	21711.917	3.5	D6S (3H)4H	44232.512	4.5	4P (5D)4F	448.1660	-2.690	86599.738	2.5	4D (5D)4F
443.9680	-3.806	85462.862	3.5	4D (5D)4G	62945.038	3.5	4P (3F)4D	448.3294	-3.643	84424.370	1.5	4D (5D)6P
444.0430	-3.022	54063.459	0.5	D6S (3P)2P	76577.482	0.5	4P (1S)2P	448.4921	-7.831	16369.360	3.5	D7 (5D)2G
444.0516	-3.194	84685.198	3.5	4D (5D)4D	62171.615	3.5	4SP(7S)6P	448.5978	-2.739	86710.837	1.5	4D (5D)4F
444.0765	-2.837	86599.738	2.5	4D (5D)4F	64087.418	2.5	4P (3F)4G	448.7497	-2.743	84326.912	2.5	4D (5D)6P
444.1025	-4.543	84685.198	3.5	4D (5D)4D	107196.200	2.5	180DD	448.8520	-4.697	84424.370	1.5	4D (5D)6P
444.1857	-4.073	86124.301	4.5	4D (5D)4F	108631.090	3.5	4SP(3G)4G	448.9183	-3.690	22810.357	3.5	D6S (3F)4F
444.2511	-2.949	73492.215	3.5	D5S2(7S)4F	95995.690	2.5	4SP(5P)4D	448.9357	-4.363	85728.806	1.5	4D (5D)4S
444.2899	-4.105	50157.452	4.5	D6S (3F)4F	72651.876	3.5	4P (3D)4D	449.0567	-2.866	100749.810	2.5	5S (3F)2F
444.4539	-2.612	50157.452	4.5	D6S (3F)4F	72650.658	4.5	4P (3D)4F	449.0822	-4.580	84326.912	2.5	4D (5D)6P

449.1405	-2.780	23031.300	1.5	D6S	(3F)4F	45289.801	1.5	4P	(5D)4F	453.3732	-3.449	50187.813	3.5	D6S	(3F)4F	72238.513	2.5	4P	(3D)4F
449.1673	-3.892	108804.667	3.5	5S	(3D)4D	86547.490	2.5	4P	(1F)2F	453.4168	-3.327	23031.300	1.5	D6S	(3F)4F	45079.879	2.5	4P	(5D)4F
449.3529	-1.796	86124.301	4.5	4D	(5D)4F	63876.317	5.5	4P	(3F)4G	453.6532	-2.982	108804.667	3.5	5S	(3D)4D	86767.577	2.5	4P	(3P)4D
449.5203	-3.940	85184.734	4.5	4D	(5D)4G	62945.038	3.5	4P	(3F)4D	453.7714	-1.710	86599.738	2.5	4D	(5D)4F	106631.090	3.5	4SP	(3G)4G
449.5516	-4.613	38164.194	2.5	D6S	(1D)2D	60402.342	2.5	4P	(3P)4F	453.8093	-2.618	86599.738	2.5	4D	(5D)4F	106629.250	2.5	4SP	(3G)4G
449.9044	-3.491	73637.340	1.5	D5S2	(7S)4F	95858.050	1.5	4SP	(5P)4D	453.8773	-3.538	50142.786	2.5	D6S	(3F)4F	72168.998	1.5	4P	(3D)4F
449.9284	-2.922	85048.662	1.5	4D	(5D)4D	82829.075	0.5	4P	(3P)4D	453.8881	-3.628	50212.826	2.5	D6S	(3F)4F	72238.513	2.5	4P	(3D)4F
449.9348	-4.141	105524.461	4.5	4D	(3F)4H	83305.251	3.5	4P	(1F)2G	454.1057	-2.749	83990.063	1.5	4D	(5D)6D	61974.933	1.5	4SP	(7S)6P
449.9688	-1.572	84266.556	3.5	4D	(5D)6P	62049.025	2.5	4SP	(7S)6P	454.1524	-2.932	23031.300	1.5	D6S	(3F)4F	45044.168	1.5	4P	(5D)4D
450.0134	-4.122	78185.030	3.5	D5S2	(7S)2G	100400.360	2.5	4SP	(3P)2D	454.2949	-3.966	84131.563	0.5	4D	(5D)6D	62125.600	1.5	4P	(3P)2D
450.0250	-2.512	86416.333	3.5	4D	(5D)4G	108631.090	3.5	4SP	(3G)4G	454.5148	-2.843	84685.198	3.5	4D	(5D)4D	62689.880	2.5	4P	(3P)4D
450.0459	-4.516	84296.830	5.5	4D	(5D)6G	62083.108	4.5	4P	(3H)2G	454.6056	-3.627	86416.333	3.5	4D	(5D)4F	64425.408	2.5	4P	(3F)2F
450.0623	-4.329	86416.333	3.5	4D	(5D)4F	108629.250	2.5	4SP	(3G)4G	454.6772	-4.998	83713.536	3.5	4D	(5D)6D	61726.077	3.5	4P	(3P)4D
450.1091	-2.836	85172.809	0.5	4D	(5D)4D	62962.024	1.5	4P	(3P)4D	454.7124	-3.340	105291.010	3.5	4D	(3F)4G	83305.251	3.5	4P	(1F)2G
450.1368	-3.827	50142.786	2.5	D6S	(3F)4F	72352.202	3.5	4P	(3D)4F	454.8436	-3.954	85184.734	4.5	4D	(5D)4F	107165.600	3.5	170DD	
450.1842	-4.936	85679.698	2.5	4D	(5D)4G	107886.600	3.5	200DD		454.9192	-1.883	47674.721	1.5	D7	(5D)2D	69650.484	2.5	4P	(3G)2F
450.2177	-4.971	84527.778	4.5	4D	(5D)6G	62322.431	3.5	4P	(3H)2G	454.9474	-2.055	22810.357	3.5	D6S	(3F)4F	44784.761	2.5	4P	(5D)4D
450.2955	-3.451	84326.912	2.5	4D	(5D)6P	62125.600	1.5	4P	(3P)2D	454.9637	-6.308	23317.633	3.5	D5S2	(7S)6S	45289.801	1.5	4P	(5D)4F
450.4343	-3.374	50157.452	4.5	D6S	(3F)4F	72352.024	3.5	4P	(3D)4F	455.0983	-3.670	50075.910	1.5	D6S	(3F)4F	72043.026	1.5	4P	(3D)4F
450.5294	-4.398	85462.862	3.5	4D	(5D)4G	63272.976	2.5	4P	(3P)4D	455.2983	-3.724	86416.333	3.5	4D	(5D)4F	108373.800	3.5	260DD	
450.7102	-2.210	84870.863	2.5	4D	(5D)4D	62689.880	2.5	4P	(3P)4D	455.3252	-3.658	50212.826	2.5	D6S	(3P)4F	72168.998	1.5	4P	(3D)4F
450.7249	-2.900	86599.738	2.5	4D	(5D)4F	108780.000	1.5	270DD		455.5444	-4.941	99688.337	3.5	5S	(3F)4F	7742.730	2.5	4P	(1D)2F
450.7332	-4.907	84424.370	1.5	4D	(5D)6P	62244.520	1.5	4P	(3F)4F	455.5893	-2.420	22810.357	3.5	D6S	(3F)4F	44753.799	3.5	4P	(5D)4F
450.8214	-2.721	86124.301	4.5	4D	(5D)4F	63948.790	4.5	4P	(3F)4G	455.6392	-2.013	83990.063	1.5	4D	(5D)6D	62049.025	2.5	4SP	(7S)6P
450.8288	-2.741	23031.300	1.5	D6S	(3F)4F	45206.450	0.5	4P	(5D)4D	455.8572	-6.993	21308.040	1.5	D7	(5D)2D	43238.586	2.5	4SP	(7S)6P
450.8455	-3.621	86599.738	2.5	4D	(5D)4F	64425.408	2.5	4P	(3F)2F	455.9554	-2.798	84870.863	2.5	4D	(5D)4D	62945.038	3.5	4P	(3F)4D
450.8578	-4.781	85728.806	1.5	4D	(5D)4S	63559.488	0.5	4P	(3F)4D	456.1096	-1.835	86710.837	1.5	4D	(5D)4F	108629.250	2.5	4SP	(3G)4G
451.0513	-3.023	50187.813	3.5	D6S	(3F)4F	72352.024	3.5	4P	(3D)4F	456.3127	-2.815	84870.863	2.5	4D	(5D)4D	62962.205	1.5	4P	(3P)4D
451.0840	-3.956	50075.910	1.5	D6S	(3F)4F	72238.513	2.5	4P	(3D)4F	456.4024	-4.681	86710.837	1.5	4D	(5D)4F	64806.487	0.5	4P	(3P)2P
451.1819	-4.934	80346.016	0.5	5S	(5D)4D	102503.810	1.5	4SP	(3S)2D	456.6581	-3.545	103763.270	5.5	4D	(3F)2H	83871.184	4.5	4P	(1F)2G
451.2056	-2.306	84131.563	0.5	4D	(5D)6D	61974.933	1.5	4SP	(7S)6P	456.8197	-6.707	20516.960	2.5	D7	(5D)2D	42401.302	1.5	4P	(5D)6F
451.2328	-1.845	84326.912	2.5	4D	(5D)6P	62171.615	3.5	4SP	(7S)6P	457.0144	-2.337	108804.667	3.5	5S	(3D)4D	86929.649	3.5	4P	(3P)4D
451.2546	-1.531	86416.333	3.5	4D	(5D)4F	108570.560	4.5	4SP	(3G)4G	457.1786	-4.914	83990.063	1.5	4D	(5D)6D	62125.600	1.5	4P	(3P)2D
451.5188	-5.969	20516.960	2.5	D7	(5D)2D	42658.224	3.5	4P	(5D)6P	457.7791	-5.649	20805.770	4.5	D7	(5D)2H	42658.224	3.5	4P	(5D)6P
451.5339	-2.567	22939.358	2.5	D6S	(3F)4F	45079.879	2.5	4P	(5D)4F	457.8563	-9.688	20805.770	4.5	D7	(5D)2H	42658.224	3.5	4P	(5D)6P
451.5609	-2.859	50212.826	2.5	D6S	(3P)4F	72352.024	3.5	4P	(3D)4F	457.9527	-2.496	86124.301	4.5	4D	(5D)4F	44784.761	2.5	4P	(5D)4D
451.5706	-4.139	84296.830	5.5	4D	(5D)6G	62158.110	4.5	4P	(3F)4F	457.7786	-4.914	83990.063	1.5	4D	(5D)4F	107964.700	4.5	210DD	
451.6043	-4.482	50075.910	1.5	D6S	(3F)4F	72212.978	0.5	4P	(3D)4F	457.7791	-5.649	20805.770	4.5	D7	(5D)2H	42658.224	3.5	4P	(5D)6P
451.7412	-3.287	73637.340	1.5	D5S2	(7S)4F	95767.700	0.5	4SP	(3P)4D	457.7791	-5.649	20805.770	4.5	D7	(5D)2H	42658.224	3.5	4P	(5D)6P
451.7488	-3.547	86416.333	3.5	4D	(5D)4F	64286.345	3.5	4P	(3F)2F	457.9527	-2.496	86124.301	4.5	4D	(5D)4F	44784.761	2.5	4P	(5D)4D
452.0224	-3.198	22637.205	4.5	D6S	(3F)4F	44753.799	3.5	4P	(5D)4F	458.0063	-3.764	20830.582	2.5	D6S	(3P)4F	42658.224	3.5	4P	(5D)6P
452.0551	-4.111	84266.556	3.5	4D	(5D)6P	62151.561	2.5	4P	(3F)4F	458.1066	-3.458	86416.333	3.5	4D	(5D)4F	108239.200	3.5	240DD	
452.0571	-2.315	86124.301	4.5	4D	(5D)4F	108239.200	3.5	240DD		458.1264	-4.509	50142.786	2.5	D6S	(3F)4F	71964.710	2.5	4P	(3D)4F
452.1791	-4.854	105414.180	2.5	4D	(3F)4G	83305.251	3.5	4P	(1F)2G	458.2116	-6.612	20516.960	2.5	D7	(5D)2D	42334.822	2.5	4P	(5D)6F
452.1890	-4.939	84266.556	3.5	4D	(5D)6P	62158.110	4.5	4P	(3F)4F	458.2835	-3.165	22939.358	2.5	D6S	(3F)4F	44753.799	3.5	4P	(5D)4F
452.2634	-2.222	22939.358	2.5	D6S	(3F)4F	45044.168	1.5	4P	(5D)4D	458.3837	-1.895	22637.205	4.5	D6S	(3F)4F	44446.878	3.5	4P	(5D)4D
452.4493	-2.977	50142.786	2.5	D6S	(3F)4F	72238.513	2.5	4P	(3D)4F	458.3999	-4.483	21812.055	1.5	D6S	(3P)4F	43620.957	1.5	4P	(5D)6P
452.4654	-1.950	84266.556	3.5	4D	(5D)6P	62171.615	3.5	4SP	(7S)6P	458.5624	-2.832	100492.020	3.5	5S	(3F)2F	78690.846	2.5	4P	(1D)2D
452.5034	-3.165	50075.910	1.5	D6S	(3F)4F	72168.998	1.5	4P	(3D)4F	458.7055	-4.161	87985.628	2.5	4D	(5D)4F	109780.000	1.5	280DD	
452.5744	-9.263	16369.360	3.5	D7	(5D)2G	38458.981	4.5	4P	(5D)6D	459.0736	-4.188	50187.813	3.5	D6S	(3F)4F	71964.710	2.5	4P	(3D)4F
452.6404	-2.709	85048.602	1.5	4D	(5D)4D	62962.205	1.5	4P	(3P)4D	459.1004	-2.583	85048.602	1.5	4D	(5D)4D	63272.976	2.5	4P	(3P)4D
452.6594	-3.561	44915.046	3.5	D6S	(1F)2F	67000.517	2.5	4P	(3F)2D	459.1238	-6.953	20340.300	5.5	D7	(5D)2H	42114.818	4.5	4P	(5D)6F
452.7016	-4.107	86124.301	4.5	4D	(5D)4F	64040.886	3.5	4P	(3F)4G	459.1334	-3.059	86599.738	2.5	4D	(5D)4F	108373.800	3.5	260DD	
452.7446	-4.666	99824.045	2.5	5S	(3F)4F	77742.730	2.5	4P	(1D)2F	459.1777	-4.240	86599.738	2.5	4D	(5D)4F	108371.700	1.5	250DD	
452.9569	-3.339	44929.550	2.5	D6S	(1F)2F	67000.517	2.5	4P	(3F)2D	459.3105	-4.881	86599.738	2.5	4D	(5D)4F	64834.073	1.5	4P	(3P)2P
452.9939	-3.963	86710.837	1.5	4D	(5D)4F	108780.000	1.5	270DD		459.3109	-4.146	84710.685	3.5	4D	(5D)6G	62945.038	3.5	4P	(3F)4D
453.0591	-3.585	54063.459	0.5	D6S	(3P)2P	76129.446	1.5	4P	(1S)2P	459.3606	-2.137	83812.316	2.5	4D	(5D)6D	62049.025	2.5	4SP	(7S)6P
453.2034	-3.000	100749.810	2.5	5S	(3F)2F	78690.													

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
459.3827	-5.103	23317.633	2.5	D5S2(7S)6S	45079.879	2.5	4P (5D)4F	463.8236	-4.334	73492.215	3.5	D5S2(7S)4F	95046.100	2.5	4P (3F)2F
459.5682	-4.306	23031.300	1.5	D6S (3F)4F	44784.761	2.5	4P (5D)4D	463.8863	-4.134	99688.337	3.5	5S (3F)4F	78137.364	3.5	4P (1D)2F
459.6015	-2.028	50212.826	2.5	D6S (3P)4F	71964.710	2.5	4P (3D)4F	463.9424	-3.869	86416.333	3.5	4D (5D)4F	107964.700	4.5	210DD
459.6354	-4.391	57493.321	1.5	D5S2(7S)4F	79243.600	1.5	4P (1D)2F	464.0812	-1.624	83713.536	3.5	4D (5D)6D	62171.615	3.5	4SP(7S)6P
459.7091	-4.512	83812.316	2.5	4D (5D)6D	62065.521	3.5	4P (3F)4F	464.3196	-3.134	86599.738	2.5	4D (5D)4F	108130.600	2.5	220DD
459.7939	-4.605	44929.550	2.5	D6S (1F)2F	66672.334	3.5	4P (3G)4H	464.3885	-3.931	105398.852	5.5	4D (3F)4H	83871.184	4.5	4P (1F)2G
459.8494	-1.868	84685.198	3.5	4D (5D)6D	62945.038	3.5	4P (3F)4D	464.4100	-6.729	21711.917	3.5	D6S (3H)4H	43238.586	2.5	4P (5D)6P
459.9693	-4.727	84424.370	1.5	4D (5D)6P	62689.880	2.5	4P (3F)4D	464.6295	-4.868	85679.698	2.5	4D (5D)4G	107196.200	2.5	180DD
459.9937	-4.120	85462.862	3.5	4D (5D)4G	107196.200	2.5	180DD	464.6819	-3.496	85462.862	3.5	4D (5D)4G	63948.790	4.5	4P (3F)4G
460.1378	-4.536	23317.633	2.5	D5S2(7S)6S	45044.168	1.5	4P (5D)4D	464.8235	-4.840	22939.358	2.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D
460.2747	-6.306	20516.960	2.5	D7 (5D)2D	42237.033	3.5	4P (5D)6F	464.8518	-3.183	100749.810	2.5	5S (3F)2F	79243.600	1.5	4P (1D)2P
460.3977	-3.260	86416.333	3.5	4D (5D)4F	108130.600	2.5	220DD	464.8944	-4.667	20830.582	2.5	D6S (3F)4F	42334.822	2.5	4P (5D)6F
460.5370	-2.584	85172.809	0.5	4D (5D)4D	63465.109	1.5	4P (3F)4D	465.2212	-4.501	86599.738	2.5	4D (5D)4F	65109.679	3.5	4P (3F)2G
460.6423	-4.576	85462.862	3.5	4D (5D)4G	107165.600	3.5	170DD	465.2216	-2.578	85048.602	1.5	4D (5D)4D	63559.488	0.5	4P (3F)4D
460.8139	-3.780	81639.260	2.5	D5S2(7S)2F	103334.100	2.5	4SP(3D)2F	465.3164	-3.436	83459.670	1.5	4D (5D)6F	61974.933	1.5	4SP(7S)6P
460.9467	-4.748	79885.493	2.5	5S (5D)4D	101573.900	1.5	4SP(5D)4P	465.4025	-4.695	86710.837	1.5	4D (5D)4F	108191.600	1.5	230DD
461.0001	-3.963	73393.745	4.5	D5S2(7S)4F	95079.640	3.5	4P (3F)2F	465.6300	-3.111	86416.333	3.5	4D (5D)4F	107886.600	3.5	200DD
461.0594	-3.866	44929.550	2.5	D6S (1F)2F	66612.656	1.5	4P (3G)4F	465.6923	-4.887	85728.806	1.5	4D (5D)4S	107196.200	2.5	180DD
461.1581	-4.017	85184.734	4.5	4D (5D)4G	106863.200	3.5	160DD	465.6981	-3.657	23317.633	2.5	D5S2(7S)6S	44784.761	2.5	4P (5D)4D
461.2283	-3.224	54902.315	1.5	D6S (3P)2F	76577.482	0.5	4P (1S)2P	465.8042	-4.256	44915.046	3.5	D6S (1F)2F	66377.283	3.5	4P (3G)4F
461.2539	-4.519	44915.046	3.5	D6S (1F)2F	66589.008	4.5	4P (3G)4H	466.0593	-2.693	78185.030	3.5	D5S2(7S)2G	99635.520	3.5	4SP(3G)2G
461.3849	-2.419	77230.900	4.5	D5S2(7S)2H	98898.710	3.5	4P (1G)2F	466.0928	-3.382	81734.750	3.5	D5S2(7S)2F	103183.700	3.5	4SP(3D)2F
461.4551	-3.127	83713.536	3.5	4D (5D)6D	62049.025	2.5	4SP(7S)6P	466.3774	-4.427	23317.633	2.5	D5S2(7S)6S	44753.799	3.5	4P (5D)4F
461.5328	-3.305	86710.837	1.5	4D (5D)4F	108371.700	1.5	250DD	466.3774	-4.388	99573.225	4.5	5S (3F)4F	78137.364	3.5	4P (1D)2F
461.5333	-4.128	83726.364	4.5	4D (5D)6D	62065.521	3.5	4P (3F)4F	466.4775	-7.404	20805.770	4.5	D7 (5D)2H	42237.033	3.5	4P (5D)6F
461.7608	-3.508	73395.930	2.5	D5S2(7S)4F	95046.100	2.5	4P (3F)2F	466.5805	-4.800	22810.357	1.5	D6S (3F)4P	43238.586	2.5	4P (5D)6P
461.8068	-4.407	83713.536	3.5	4D (5D)6D	62065.521	3.5	4P (3F)4F	466.6758	-3.287	18120.055	3.5	D6S (3F)4F	44232.512	4.5	4P (5D)4F
461.9080	-3.775	73395.930	2.5	D5S2(7S)4F	95039.200	1.5	4P (3F)2P	466.6797	-4.478	85462.862	3.5	4D (5D)4G	64040.886	3.5	4P (3F)4G
461.9628	-1.926	83812.316	2.5	4D (5D)6D	62171.615	3.5	4SP(7S)6P	466.7265	-4.910	105291.010	3.5	4D (3F)4G	83871.184	4.5	4P (1F)2G
461.9893	-4.821	86599.738	2.5	4D (5D)4F	108239.200	3.5	240DD	466.7279	-4.098	86710.837	1.5	4D (5D)4F	108130.600	2.5	220DD
462.0032	-3.870	85679.698	2.5	4D (5D)4G	64040.886	3.5	4P (3F)4G	466.8923	-2.909	84685.198	3.5	4D (5D)4D	63272.976	2.5	4P (3F)4D
462.0412	-4.157	84326.912	2.5	4D (5D)6P	62689.880	2.5	4P (3P)4D	466.9267	-3.268	83459.670	1.5	4D (5D)6F	62049.025	2.5	4SP(7S)6P
462.0521	-3.126	22810.357	3.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D	466.9318	-4.531	83136.487	3.5	4D (5D)6F	61726.077	3.5	4P (3F)4D
462.0886	-4.808	88157.116	1.5	4D (5D)4F	66522.304	2.5	4P (3G)4F	467.0182	-4.138	20830.582	2.5	D6S (3F)4P	42237.033	3.5	4P (5D)6F
462.1488	-4.470	54283.220	3.5	D5S2(7S)4G	75915.215	2.5	4P (3D)2F	467.0334	-2.571	84870.863	2.5	4D (5D)4D	63465.109	1.5	4P (3F)4D
462.2396	-8.816	20340.300	5.5	D7 (5D)2H	41968.046	5.5	4P (5D)6F	467.0731	-4.778	83726.364	4.5	4D (5D)6D	62322.431	3.5	4P (3H)2G
462.3331	-2.945	78185.030	3.5	D5S2(7S)2G	99808.400	3.5	4P (1G)2G	467.1183	-4.744	73637.340	1.5	D5S2(7S)4F	95039.200	1.5	4P (3P)2P
462.3435	-3.840	88157.116	1.5	4D (5D)4P	109780.000	1.5	280DD	467.1516	-4.669	85462.862	3.5	4D (5D)4G	106863.200	3.5	160DD
462.5481	-2.458	85172.809	0.5	4D (5D)4D	63559.488	0.5	4P (3F)4D	467.2479	-4.227	80177.975	1.5	5S (5D)4D	101573.900	1.5	4SP(5D)4P
462.5893	-2.619	48039.090	2.5	D7 (5D)2D	69650.498	2.5	4P (3G)2F	467.3041	-4.709	85679.698	2.5	4D (5D)4G	64286.345	3.5	4P (3F)2F
462.6546	-4.529	87985.628	2.5	4D (5D)4P	66377.283	3.5	4P (3G)4F	467.3532	-4.967	83713.536	3.5	4D (5D)6D	62322.431	3.5	4P (3H)2G
462.6779	-4.040	44915.046	3.5	D6S (1F)2F	66522.304	2.5	4P (3G)4F	467.6956	-3.516	85462.862	3.5	4D (5D)4G	64087.418	2.5	4P (3F)4G
462.7866	-5.400	25787.998	1.5	D6S (3P)2P	47389.719	1.5	4P (5D)4P	467.8263	-4.796	73393.745	4.5	D5S2(7S)4F	94763.219	3.5	4SP(5D)6P
462.8473	-4.266	81734.750	3.5	D5S2(7S)2F	103334.100	2.5	4SP(3D)2F	467.9307	-4.461	84326.912	2.5	4D (5D)6F	62962.205	1.5	4P (3F)4D
462.8786	-2.035	84870.863	2.5	4D (5D)4D	63272.976	2.5	4P (3F)4F	468.5047	-4.425	99824.045	2.5	5S (3F)4F	78487.153	1.5	4P (1D)2D
462.9339	-2.387	22637.205	4.5	D6S (3F)4F	44232.512	4.5	4P (5D)4F	468.5964	-7.151	26055.423	2.5	D6S (3G)4G	47389.779	1.5	4P (5D)4P
462.9988	-4.326	85679.698	2.5	4D (5D)4G	64087.418	2.5	4P (3F)4G	468.6204	-3.743	83308.194	2.5	4D (5D)6F	61974.933	1.5	4SP(7S)6P
463.0078	-4.529	86599.738	2.5	4D (5D)4F	108191.600	1.5	230DD	468.6283	-4.831	108804.667	3.5	5S (3D)4D	87471.765	4.5	4SP(5G)6F
463.0269	-3.624	88189.030	0.5	4D (5D)4P	109780.000	1.5	280DD	468.6392	-4.048	81734.750	3.5	D5S2(7S)2F	60402.342	2.5	4P (3F)4P
463.1029	-3.388	73492.215	3.5	D5S2(7S)4F	95079.640	3.5	4P (3F)2F	468.7516	-4.313	54273.641	4.5	D5S2(7S)4G	75600.931	3.5	4P (3D)2F
463.1681	-3.367	86416.333	3.5	4D (5D)4F	64831.943	4.5	4P (3F)2G	468.8785	-3.005	84266.556	3.5	4D (5D)6P	62945.038	3.5	4P (3F)4D
463.1849	-3.930	83558.540	0.5	4D (5D)6F	61974.933	1.5	4SP(7S)6P	469.1668	-3.282	85184.734	4.5	4D (5D)4G	63876.317	5.5	4P (3F)4G
463.1873	-2.256	85048.602	1.5	4D (5D)4D	63465.109	1.5	4P (3F)4D	469.2432	-4.437	77230.900	4.5	D5S2(7S)2H	98535.850	3.5	4SP(5D)4F
463.3337	-3.658	84266.556	3.5	4D (5D)6P	62689.880	2.5	4P (3P)4D	469.2480	-4.141	73395.930	2.5	D5S2(7S)4F	94700.660	2.5	4P (3F)2D
463.4322	-4.464	78185.030	3.5	D5S2(7S)2G	99757.120	4.5	4P (1G)2G	469.5207	-4.741	86124.301	4.5	4D (5D)4F	64831.943	4.5	4P (3F)2G
463.4616	-5.655	20830.582	2.5	D6S (3P)4P	42401.302	1.5	4P (5D)6F	469.6419	-3.803	86599.738	2.5	4D (5D)4F	107886.600	3.5	200DD
463.5316	-1.669	48039.090	2.5	D7 (5D)2D	69606.552	3.5	4P (3G)2F	469.7071	-3.237	105155.090	4.5	4D (3F)4G	83871.184	4.5	4P (1F)2G
463.8050	-1.613	83726.364	4.5	4D (5D)6D	62171.615	3.5	4SP(7S)6P	470.0802	-4.924	108804.667	3.5	5S (3D)4D	87537.652	3.5	4SP(5G)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
483.978/	-2.914	73492.215	3.5	D5S2(7S)4F	489.3812	-3.667	86124.301	4.5	4D (5D)4F	65696.038	4.5	4P (3G)4G
483.9998	-4.937	21581.638	4.5	D6S (3H)4H	489.3820	-4.278	22810.357	3.5	D6S (3F)4F	43238.586	2.0	4P (5D)6P
484.0662	-6.556	18360.646	1.5	D7 (5D)2P	489.8347	-4.726	83459.670	1.5	4D (5D)6F	103869.020	1.5	4F(5D)1[2]
484.2327	-4.010	87985.628	2.5	4D (5D)4F	489.8899	-4.705	82978.677	4.5	4D (5D)6F	103385.730	3.5	4F(5D)3[3]
484.2596	-3.356	84685.198	3.5	4D (5D)4D	489.9732	-4.719	86416.333	3.5	4D (5D)4F	66012.750	4.5	4P (3G)4F
484.3294	-2.629	81734.750	3.5	D5S2(7S)2F	489.9782	-4.771	83308.194	2.5	4D (5D)6F	103711.570	3.5	4F(5D)2[4]
484.3318	-4.099	44915.046	3.5	D6S (1F)2F	489.9896	-7.098	21711.917	3.5	D6S (3H)4H	42114.818	4.5	4P (5D)6F
484.5353	-2.608	86710.837	1.5	4D (5D)4F	490.0868	-3.315	84685.198	3.5	4D (5D)4D	64286.345	3.5	4P (3F)2F
484.6480	-5.376	21812.055	1.5	D6S (3P)4F	490.1056	-0.824	83459.670	1.5	4D (5D)6F	103857.740	2.5	4F(5D)1[2]
484.7555	-3.746	85048.602	1.5	4D (5D)4D	490.2937	-2.181	83308.194	2.5	4D (5D)6F	103698.440	2.5	4F(5D)2[3]
484.7623	-5.466	21711.917	3.5	D6S (3H)4H	490.3860	-7.859	21581.638	4.5	D6S (3H)4H	41968.046	5.5	4P (5D)6F
484.7628	-4.877	88157.116	1.5	4D (5D)4F	490.5180	-4.114	50142.776	2.5	D6S (3F)4F	70523.706	3.5	4P (3G)2G
484.8200	-2.231	77230.900	4.5	D5S2(7S)2H	490.6846	-1.318	82978.677	4.5	4D (5D)6F	103352.680	4.5	4F(5D)3[5]
485.3536	-4.460	84685.198	3.5	4D (5D)4D	490.8151	-0.126	83308.194	2.5	4D (5D)6F	103676.780	3.5	4F(5D)2[3]
485.3599	-4.313	81639.260	2.5	D5S2(7S)2F	490.8696	-4.733	85172.809	0.5	4D (5D)4D	64806.487	0.5	4P (3P)2P
485.4495	-4.382	73393.745	4.5	D5S2(7S)4F	490.9459	-4.743	83308.194	2.5	4D (5D)6F	62945.038	3.5	4P (3F)4D
485.5366	-4.584	86416.333	3.5	4D (5D)4F	490.9747	-2.621	82978.677	4.5	4D (5D)6F	62945.038	3.5	4P (3F)4D
485.5451	-5.786	23031.300	1.5	D6S (3F)4F	491.0101	-3.022	83308.194	2.5	4D (5D)6F	103668.690	1.5	4F(5D)2[1]
485.5548	-4.559	21812.055	1.5	D6S (3P)4F	491.0470	-3.612	78337.685	3.5	5S (5D)6F	98596.950	4.5	4SP(5D)4F
485.6153	-1.521	83459.670	1.5	4D (5D)6F	491.1961	-1.280	83308.194	2.5	4D (5D)6F	103660.980	2.5	4F(5D)2[2]
485.6663	-3.586	84870.863	2.5	4D (5D)4D	491.2433	-2.985	73637.340	1.5	D5S2(7S)4F	93988.170	2.5	4SP(5G)4G
485.7488	-4.073	73492.215	3.5	D5S2(7S)4F	491.2433	-2.985	73637.340	1.5	D5S2(7S)4F	93988.170	2.5	4SP(5G)4G
485.7624	-4.588	98924.045	2.5	5S (3F)4F	491.2435	-4.446	84296.830	5.5	4D (5D)6F	98535.850	3.5	4SP(5D)4F
485.8890	-2.218	83136.487	3.5	4D (5D)6F	491.3181	-1.217	82978.677	4.5	4D (5D)6F	103326.410	4.5	4F(5D)3[4]
485.9031	-0.834	83308.194	2.5	4D (5D)6F	491.3292	-0.150	82978.677	4.5	4D (5D)6F	103326.410	4.5	4F(5D)3[4]
486.0677	-1.941	82853.658	5.5	4D (5D)6F	491.5347	-4.273	73492.215	3.5	D5S2(7S)4F	93830.970	2.5	4SP(5D)6D
486.0918	-1.941	82853.658	5.5	4D (5D)6F	491.5354	-4.962	85172.809	0.5	4D (5D)4D	64834.073	1.5	4P (3P)2P
486.1067	-1.025	86124.301	4.5	4D (5D)4F	491.5516	-4.519	86416.333	3.5	4D (5D)4F	66078.269	2.5	4P (3G)4G
486.1218	-1.500	83136.487	3.5	4D (5D)6F	491.5767	-4.905	83308.194	2.5	4D (5D)6F	103645.220	1.5	4F(5D)2[2]
486.2260	-3.276	83308.194	2.5	4D (5D)6F	491.6041	-4.800	50187.813	3.5	D6S (3F)4F	70523.770	3.5	4P (3G)2G
486.4929	-1.820	83308.194	2.5	4D (5D)6F	491.6786	-4.502	83713.536	3.5	4D (5D)6D	104046.350	2.5	4F(5D)0[3]
486.5805	-3.855	81639.260	2.5	D5S2(7S)2F	491.8433	-4.495	49100.976	0.5	D6S (3P)4P	69426.980	0.5	4SP(5S)4P
486.6180	-2.905	86124.301	4.5	4D (5D)4F	491.9010	-4.554	54283.220	3.5	D5S2(7S)4G	74626.841	2.5	4P (3D)2D
486.6206	-0.618	83136.487	3.5	4D (5D)6F	491.9540	-4.623	78577.280	4.5	D5S2(7S)2G	98898.710	3.5	4P (1G)2F
486.7120	-1.738	83136.487	3.5	4D (5D)6F	492.0427	-4.606	84266.556	3.5	4D (5D)6P	63948.790	4.5	4P (3F)4G
486.7738	-5.988	21581.638	4.5	D6S (3H)4H	492.0455	-4.731	79439.467	3.5	5S (5D)4D	99757.120	4.5	4P (1G)2G
486.8806	-5.352	21581.638	4.5	D6S (3H)4H	492.2095	-4.772	50212.826	2.5	D6S (3P)4P	70523.706	3.5	4P (3G)2G
486.9630	-4.859	77861.625	4.5	5S (5D)6D	492.2192	-0.671	83358.540	0.5	4D (5D)6F	103869.020	1.5	4F(5D)1[2]
486.9973	-1.189	83459.670	1.5	4D (5D)6F	492.2465	-1.424	83713.536	3.5	4D (5D)6D	104022.890	3.5	4F(5D)0[3]
487.0719	-5.673	21711.917	3.5	D6S (3H)4H	492.2785	-4.406	98445.400	4.5	5S (3H)4H	78137.364	3.5	4P (1D)2F
487.0867	-2.062	83136.487	3.5	4D (5D)6F	492.3158	-3.947	81639.260	2.5	D5S2(7S)2F	61332.764	1.5	4P (3P)4P
487.1277	-4.326	21812.055	1.5	D6S (3P)4F	492.3927	-1.682	103608.909	4.5	5S (3G)2G	83305.951	3.5	4P (1F)2D
487.1585	-3.876	86599.738	2.5	4D (5D)4F	492.3946	-4.221	23317.633	2.5	D5S2(7S)6F	43620.257	1.5	4P (5D)6P
487.3153	-4.815	79885.493	2.5	5S (5D)4D	492.4921	-4.966	22939.358	2.5	D6S (3F)4F	43238.586	2.5	4P (5D)6P
487.6919	-1.881	82853.658	5.5	4D (5D)6F	492.5179	-4.145	83237.685	3.5	5S (5D)6D	98535.850	3.5	4SP(5D)4F
487.7088	-7.137	18360.646	1.5	D7 (5D)2P	492.5577	-1.852	83726.364	4.5	4D (5D)6D	104022.890	3.5	4F(5D)0[3]
487.7819	-4.731	73492.215	3.5	D5S2(7S)4F	492.59126	-4.876	78725.790	1.5	5S (5D)6D	99007.700	0.5	4SP(5D)4D
487.9807	-4.654	84527.778	4.5	4D (5D)6G	493.0953	-3.588	83136.487	3.5	4D (5D)6D	103987.930	2.5	4F(5D)1[3]
488.0258	-4.548	86416.333	3.5	4D (5D)4F	493.2080	-1.599	83136.487	3.5	4D (5D)6F	103406.250	2.5	4F(5D)3[2]
488.0871	-3.166	81639.260	2.5	D5S2(7S)2F	493.4508	-4.837	84685.198	3.5	4D (5D)4D	64425.408	2.5	4P (3F)2F
488.3177	-1.208	82853.658	5.5	4D (5D)6F	493.5377	-1.414	83713.536	3.5	4D (5D)6D	103969.760	3.5	4F(5D)1[3]
488.3287	-0.537	82853.658	5.5	4D (5D)6F	493.7078	-0.861	83136.487	3.5	4D (5D)6F	103385.730	3.5	4F(5D)3[3]
488.3325	-4.463	88157.116	1.5	4D (5D)4F	493.8178	-4.837	78525.407	2.5	5S (5D)6D	98770.140	1.5	4SP(5D)4D
488.6930	-5.079	26932.748	0.5	D6S (3P)2P	493.8504	-2.268	83726.364	4.5	4D (5D)6D	103969.760	3.5	4F(5D)1[3]
488.9697	-3.987	84870.863	2.5	4D (5D)4D	493.8817	-4.926	85048.602	1.5	4D (5D)4D	64806.487	0.5	4P (3P)2P
488.9947	-4.864	73395.930	2.5	D5S2(7S)4F	493.8912	-4.916	99573.225	4.5	5S (3F)4F	79331.500	3.5	4SP(5S)6P
489.0647	-1.386	82978.677	4.5	4D (5D)6F	493.9633	-1.522	83459.670	1.5	4D (5D)6F	103698.440	2.5	4F(5D)2[3]
489.2295	-3.145	54063.459	0.5	D6S (3P)2P	494.0789	-2.374	83812.316	2.5	4D (5D)6D	104046.350	2.5	4F(5D)0[3]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
494.2177	-1.141	83136.487	3.5	4D (5D)6F	103364.840	2.5	4F(5D)3[3]	498.4473	-2.066	83812.316	2.5	4D (5D)6D
494.2832	-4.532	84266.556	3.5	4D (5D)6P	64040.886	3.5	4P (3F)4G	498.4488	0.177	83308.194	2.5	4D (5D)6F
494.3601	-7.423	18886.780	0.5	D7 (5D)2P	39109.307	0.5	4P (5D)6D	498.4577	-0.892	83990.063	1.5	4D (5D)6D
494.3618	-3.798	86599.738	2.5	4D (5D)4F	66377.283	3.5	4P (3C)4D	498.7278	-1.030	83812.316	2.5	4D (5D)6D
494.3627	-4.342	54275.637	2.5	D5S2(7S)4F	74498.087	1.5	4P (3C)2D	498.7546	-4.147	78725.790	1.5	5S (5D)6D
494.3635	-3.592	80177.975	1.5	5S (5D)4D	100400.360	2.5	4SP(3P)2D	498.8697	-1.576	82853.658	5.5	4D (5D)6F
494.3701	-3.389	81734.750	3.5	D5S2(7S)2F	61512.634	4.5	4P (3H)4I	498.8665	-2.971	86416.333	3.5	4D (5D)4F
494.3720	-3.868	79885.493	2.5	5S (5D)4D	59663.456	1.5	4P (3P)4S	498.9427	-4.915	84834.073	1.5	4P (3F)2P
494.5062	-1.361	83459.670	1.5	4D (5D)6F	103676.220	0.5	4F(5D)2[1]	498.9819	-4.229	83308.194	2.5	4D (5D)6F
494.5150	-0.949	83136.487	3.5	4D (5D)6F	103352.680	4.5	4F(5D)3[5]	499.0012	-3.990	88157.116	1.5	4D (5D)4F
494.6524	-1.014	83812.316	2.5	4D (5D)6D	104022.890	3.5	4F(5D)0[3]	499.0212	-4.533	82978.677	4.5	4D (5D)6F
494.6905	-1.492	83459.670	1.5	4D (5D)6F	103668.586	2.5	4P (5D)6P	499.0509	0.311	83308.194	2.5	4D (5D)6F
494.7329	-6.212	23031.300	1.5	D6S (3F)4F	43238.586	2.5	4P (5D)6P	499.0768	-4.726	84863.351	5.5	4D (5D)4G
494.7651	-4.335	87985.628	2.5	4D (5D)4F	108191.600	1.5	230DD	499.1126	-0.501	86416.333	3.5	4D (5D)4F
494.8096	-0.131	83136.487	3.5	4D (5D)6F	103340.604	3.5	4F(5D)3[4]	499.1440	-0.668	82853.658	5.5	4D (5D)6F
494.8841	0.138	83459.670	1.5	4D (5D)6F	103660.980	2.5	4F(5D)2[2]	499.2468	-3.582	58666.258	3.5	D6S (1G)2G
494.8841	-3.852	49100.976	0.5	D6S (3P)4F	69302.090	1.5	4SP(5S)4P	499.3358	-3.709	22637.205	4.5	D6S (3F)4F
495.0429	-3.808	44915.046	3.5	D6S (1F)2F	65109.679	3.5	4P (3F)2F	499.3769	-4.414	78577.280	4.5	D5S2(7S)2G
495.0838	-4.328	86124.301	4.5	4D (5D)4F	65931.334	3.5	4P (3C)4G	499.5997	-3.942	78525.407	2.5	5S (5D)6D
495.1210	-4.111	83136.487	3.5	4D (5D)6F	62945.038	3.5	4P (3F)4D	499.6439	-4.918	81734.750	3.5	D5S2(7S)2F
495.1529	-4.978	108804.667	3.5	5S (3D)4D	88614.520	4.5	4SP(5P)6D	499.7963	-4.405	88189.030	0.5	4D (5D)4F
495.1584	0.322	83136.487	3.5	4D (5D)6F	103326.410	4.5	4F(5D)3[4]	499.8748	-2.250	73395.930	2.5	D5S2(7S)4F
495.1925	-3.883	86710.837	1.5	4D (5D)4F	66522.304	2.5	4P (3C)4G	499.8843	-4.851	83558.540	0.5	4D (5D)6F
495.2376	-0.748	83459.670	1.5	4D (5D)6F	63272.926	2.5	4P (3F)4D	499.9097	-2.273	83713.536	3.5	4D (5D)6D
495.2657	-0.410	83459.670	1.5	4D (5D)6F	103645.220	1.5	4F(5D)2[2]	499.9139	-2.232	83990.063	1.5	4D (5D)6D
495.3987	-2.948	44929.550	2.5	D6S (1F)2F	65109.679	3.5	4P (3F)2G	499.9180	-0.320	82853.658	5.5	4D (5D)6F
495.5096	-1.762	83812.316	2.5	4D (5D)6D	103987.930	2.5	4F(5D)1[3]	499.9747	-2.411	73492.215	3.5	D5S2(7S)4F
495.6566	-4.709	78185.030	3.5	D5S2(7S)2G	98354.960	2.5	4SP(5D)4F	499.9965	-4.488	83459.670	1.5	4D (5D)6F
495.6685	-2.089	83713.536	3.5	4D (5D)6D	103882.680	3.5	4F(5D)1[4]	500.0515	-2.992	73492.215	3.5	D5S2(7S)4F
495.7455	-2.329	82853.658	5.5	4D (5D)6F	103019.670	6.5	4F(5D)4[7]	500.1561	-1.484	83713.536	3.5	4D (5D)6D
495.8022	-4.250	78843.992	0.5	5S (5D)6D	99007.000	0.5	4SP(5D)4D	500.1959	1.015	82853.658	5.5	4D (5D)6F
495.8822	-0.368	83713.536	3.5	4D (5D)6D	103873.990	4.5	4F(5D)1[4]	500.2306	-3.913	83726.364	4.5	4D (5D)6D
495.9562	-1.723	83812.316	2.5	4D (5D)6F	103969.760	3.5	4F(5D)1[3]	500.2381	-3.985	83713.536	3.5	4D (5D)6D
495.9634	-4.140	50157.452	4.5	D6S (3F)4F	70314.604	4.5	4P (3C)2G	500.3356	-4.325	84266.345	3.5	4D (5D)6F
495.9840	-4.933	83726.364	4.5	4D (5D)6D	103882.680	3.5	4F(5D)1[4]	500.3686	-4.396	78525.407	2.5	5S (5D)6D
496.0497	-4.019	78237.685	3.5	5S (5D)6D	98391.330	3.5	4SP(5D)4D	500.4195	0.618	82853.658	5.5	4D (5D)6F
496.1197	-3.019	83726.364	4.5	4D (5D)6F	103873.990	4.5	4F(5D)1[4]	500.4208	-3.215	83459.670	1.5	4D (5D)6F
496.7116	-3.641	50187.813	3.5	D6S (3F)4F	70314.604	4.5	4P (3G)2G	500.4773	-0.975	83726.364	4.5	4D (5D)6D
496.7206	-8.011	18886.780	0.5	D7 (5D)2P	39013.206	1.5	4P (5D)6D	500.6841	-0.106	83713.536	3.5	4D (5D)6D
496.9365	-0.676	83558.540	0.5	4D (5D)6F	103676.220	0.5	4F(5D)2[1]	500.6841	-0.235	83726.364	4.5	4D (5D)6D
496.9540	-4.833	78237.685	3.5	5S (5D)6D	98354.960	2.5	4SP(5D)4F	500.7447	-0.235	83726.364	4.5	4D (5D)6D
497.0688	-4.318	103983.510	3.5	5S (3G)2G	83871.184	4.5	4P (1F)2G	500.7739	-0.123	82978.677	4.5	4D (5D)6F
497.0880	-2.839	86124.301	4.5	4D (5D)4F	66012.750	4.5	4P (3G)4F	500.7809	-1.950	83713.536	3.5	4D (5D)6D
497.1226	-0.434	83558.540	0.5	4D (5D)6F	103668.690	1.5	4F(5D)2[1]	500.8982	-4.552	78577.280	4.5	D5S2(7S)2G
497.1333	-1.060	83308.194	2.5	4D (5D)6F	103417.910	1.5	4F(5D)3[1]	500.9022	-0.321	83459.670	1.5	4D (5D)6F
497.4187	-3.572	86710.837	1.5	4D (5D)4F	66612.656	1.5	4P (3C)4F	500.9065	-4.986	83459.670	1.5	4D (5D)6F
497.4218	-0.950	83308.194	2.5	4D (5D)6F	103406.250	2.5	4F(5D)3[2]	501.0060	-0.516	83726.364	4.5	4D (5D)6D
497.5245	-1.815	73393.745	4.5	D5S2(7S)4F	93487.650	3.5	4P (3F)4F	501.1029	-1.083	83726.364	4.5	4D (5D)6D
497.5363	-4.924	83558.540	0.5	4D (5D)6F	63465.109	1.5	4P (3F)4D	501.1776	-1.918	83713.536	3.5	4D (5D)6D
497.5786	-2.937	73395.930	2.5	D5S2(7S)4F	93484.580	4.5	4P (3F)4F	501.1993	-1.043	83459.670	1.5	4D (5D)6F
497.6005	-1.634	73393.745	4.5	D5S2(7S)4F	93487.650	3.5	4P (3F)4F	501.5521	-2.618	73395.930	2.5	D5S2(7S)4F
497.7035	-0.090	83558.540	0.5	4D (5D)6F	103645.220	1.5	4F(5D)2[2]	501.5755	0.067	83459.670	1.5	4D (5D)6F
497.7923	-0.441	83308.194	2.5	4D (5D)6F	103391.290	1.5	4F(5D)3[2]	501.6816	-4.768	86599.738	2.5	4D (5D)4F
497.8376	-4.534	108804.667	3.5	5S (3D)4D	88723.400	4.5	4P (3F)4D	501.6816	-4.768	78843.992	0.5	5S (5D)6D
497.9302	-2.596	83308.194	2.5	4D (5D)6F	88723.400	4.5	4P (3F)4D	501.7132	-4.328	86599.738	2.5	4D (5D)6F
497.9327	-3.277	86599.738	2.5	4D (5D)4F	66522.304	2.5	4P (3C)4G	501.8440	-1.524	23317.633	2.5	D5S2(7S)6S
497.9917	-4.522	85184.734	4.5	4D (5D)4G	65109.679	3.5	4P (3F)2G	501.8669	-3.862	49506.934	1.5	D6S (3P)4F
498.1081	-0.902	83812.316	2.5	4D (5D)6D	103882.680	3.5	4F(5D)1[4]	501.9462	-2.892	44915.046	3.5	D6S (1F)2F
								502.0015	-0.608	82978.677	4.5	4D (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
502.0399	-4.559	81639.260	2.5	D5S2(7S)2F	61726.077	3.5	4P (3P)4D	507.2070	-4.809	86710.837	1.5	4D (5D)4F	67000.517	2.5	4P (3F)2D	
502.1594	-0.136	82978.677	4.5	4D (5D)6F	102887.120	3.0	5.5	4F(5D)4[4]	507.2570	-0.819	83990.063	1.5	4D (5D)6D	103698.440	2.5	4F(5D)2[3]
502.2420	0.013	83459.670	1.5	4D (5D)6F	103364.840	2.5	4F(5D)3[3]	507.3562	-2.994	54902.315	1.5	D6S (3P)2P	74606.841	2.5	4P (3D)2D	
502.2583	-4.262	44929.550	2.5	D6S (1F)2F	64834.073	1.5	4P (3P)2P	507.3902	-0.804	84266.556	3.5	4D (5D)6P	103969.760	3.5	4F(5D)1[3]	
502.2792	0.014	82978.677	4.5	4D (5D)6F	102882.370	4.5	4F(5D)4[4]	507.4053	-2.077	54904.222	3.5	D6S (3F)2F	74606.841	2.5	4P (3D)2D	
502.2931	-2.439	73492.215	3.5	D5S2(7S)4F	93395.360	2.5	4P (3F)4F	507.4344	-3.129	78577.280	4.5	D5S2(7S)2G	98278.770	5.5	4P (1G)2H	
502.3479	-4.340	87985.628	2.5	4D (5D)4F	107886.600	3.5	200DD	507.5764	0.365	84326.912	2.5	4D (5D)6P	104022.890	3.5	4F(5D)0[3]	
502.3913	-1.628	83812.316	2.5	4D (5D)6D	103711.570	3.5	4F(5D)2[4]	507.6326	-2.645	83726.364	4.5	4D (5D)6D	103420.160	5.5	4F(5D)3[6]	
502.6806	-0.185	83136.487	3.5	4D (5D)6F	103024.290	2.5	4F(5D)4[2]	507.6605	-0.827	83713.536	3.5	4D (5D)6D	103406.250	2.5	4F(5D)3[2]	
502.7230	-1.733	83812.316	2.5	4D (5D)6D	103698.440	2.5	4F(5D)2[1]	507.7011	-2.239	73637.340	1.5	D5S2(7S)4F	93328.480	1.5	4P (3F)4F	
502.9040	-1.897	83990.063	1.5	4D (5D)6D	103869.020	1.5	4F(5D)1[2]	507.8296	-1.310	83990.063	1.5	4D (5D)6D	103676.420	0.5	4F(5D)2[1]	
502.9097	-0.683	83558.540	0.5	4D (5D)6F	103437.280	0.5	4F(5D)3[1]	508.1901	-0.758	83713.536	3.5	4D (5D)6D	103385.730	3.5	4F(5D)3[3]	
503.0630	0.541	82978.677	4.5	4D (5D)6F	102851.360	4.5	4F(5D)4[5]	508.2230	-0.057	83990.063	1.5	4D (5D)6D	103660.980	2.5	4F(5D)2[2]	
503.1898	0.221	83990.063	1.5	4D (5D)6D	103857.740	2.5	4F(5D)1[2]	508.2667	-4.286	81734.750	3.5	D5S2(7S)2F	62065.521	3.5	4P (3F)4F	
503.2342	-4.317	78525.407	2.5	5S (5D)6D	98391.330	3.5	4SP(5D)4D	508.3418	-3.274	78185.030	3.5	D5S2(7S)2G	97851.350	4.5	4P (1G)2H	
503.2712	0.325	83812.316	2.5	4D (5D)6D	103676.780	3.5	4F(5D)2[3]	508.3506	-0.704	83459.670	1.5	4D (5D)6F	103125.930	0.5	4F(5D)4[1]	
503.3960	-1.061	83558.540	0.5	4D (5D)6F	103418.080	0.5	4F(5D)3[0]	508.3934	-4.339	81639.260	2.5	D5S2(7S)2F	61974.933	1.5	4SP(7S)8P	
503.4003	-0.666	83558.540	0.5	4D (5D)6F	103417.910	1.5	4F(5D)3[1]	508.4789	-2.521	84326.912	2.5	4D (5D)6D	103987.930	1.5	4F(5D)1[3]	
503.4762	-1.470	83812.316	2.5	4D (5D)6D	103668.690	1.5	4F(5D)2[1]	508.5217	-0.907	83726.364	4.5	4D (5D)6D	103385.730	3.5	4F(5D)3[3]	
503.5553	-4.840	84685.198	3.5	4D (5D)4D	64831.943	4.5	4P (3F)2G	508.6306	-0.385	83990.063	1.5	4D (5D)6D	103645.220	1.5	4F(5D)2[2]	
503.5708	0.717	82978.677	4.5	4D (5D)6F	102831.320	5.5	4P (3F)2G	508.6988	-5.241	27314.922	3.5	D6S (3F)2F	46967.444	2.5	4P (5D)4P	
503.6367	-4.581	83726.364	4.5	4D (5D)6D	63876.317	5.5	4P (3F)4G	508.7215	-2.614	81734.750	3.5	D5S2(7S)2F	62083.108	4.5	4P (3H)2G	
503.6718	-0.246	83812.316	2.5	4D (5D)6D	103660.980	2.5	4F(5D)2[2]	508.7303	-0.363	83459.670	1.5	4D (5D)6D	103364.840	2.5	4F(5D)3[1]	
503.6920	-4.735	22810.357	3.5	D6S (3F)4F	42658.224	3.5	4P (3H)2P	508.7350	-1.433	83459.670	1.5	4D (5D)6F	103110.790	1.5	4F(5D)4[1]	
504.0759	-0.712	83558.540	0.5	4D (5D)6F	103645.220	2.5	4F(5D)2[2]	508.9214	0.071	83308.194	2.5	4D (5D)6F	102952.120	2.5	4F(5D)4[3]	
504.1648	-4.192	78525.407	2.5	5S (5D)6D	98354.660	2.5	4SP(5D)4F	506.9493	-0.280	84326.912	2.5	4D (5D)6P	103969.760	3.5	4F(5D)1[3]	
504.2139	-4.849	86416.333	3.5	4D (5D)4F	66589.008	4.5	4P (3G)4F	509.0453	-2.470	83713.536	3.5	4D (5D)6D	103352.680	4.5	4F(5D)3[5]	
504.3712	-4.434	85184.734	4.5	4D (5D)4G	65363.595	5.5	4P (3H)2H	509.1785	-2.331	83308.194	2.5	4D (5D)6F	102942.200	3.5	4F(5D)4[3]	
504.5114	0.009	83136.487	3.5	4D (5D)6F	102952.120	2.5	4F(5D)4[3]	509.2288	-4.772	83184.734	4.5	4D (5D)4F	104816.800	5.5	4SP(3I)4H	
504.7641	-0.052	83136.487	3.5	4D (5D)6F	102942.200	3.5	4F(5D)4[3]	509.3465	-2.242	54870.528	2.5	D6S (3F)2F	74498.057	1.5	4P (3D)2D	
504.8435	-0.698	83308.194	2.5	4D (5D)6F	103110.790	1.5	4F(5D)4[1]	509.3575	0.176	83713.536	3.5	4D (5D)6D	103340.640	3.5	4F(5D)3[4]	
505.0141	-4.682	84863.351	5.5	4D (5D)4G	104659.260	6.5	4SP(3I)4H	509.3780	-0.302	83726.364	4.5	4D (5D)6D	103352.680	4.5	4F(5D)0[3]	
505.0333	-4.508	49506.934	1.5	D6S (3P)4F	69302.090	1.5	4SP(5S)4F	509.4906	-0.636	84424.370	1.5	4D (5D)6D	104046.350	2.5	4F(5D)0[3]	
505.4255	-2.552	84266.556	3.5	4D (5D)6P	104046.350	2.5	4F(5D)0[3]	509.6427	-2.824	84266.556	3.5	4D (5D)6P	103882.680	3.5	4F(5D)1[4]	
505.4379	-3.996	78725.790	1.5	5S (5D)6D	98505.100	2.5	4SP(5D)4D	509.6907	-0.549	83726.364	4.5	4D (5D)6D	103340.640	3.5	4F(5D)3[4]	
505.5319	-3.712	80177.975	1.5	5S (5D)4D	60402.342	2.5	4P (3P)4P	509.7271	0.340	83713.536	3.5	4D (5D)6D	103326.410	4.5	4F(5D)3[4]	
505.6921	-8.216	27620.412	2.5	D6S (3F)2F	47389.779	1.5	4P (5D)4F	509.7371	-4.371	78725.790	1.5	5S (5D)6D	98338.280	1.5	4SP(5P)4S	
505.7572	-4.199	85462.862	3.5	4D (5D)4G	65696.038	4.5	4P (3G)4G	509.8685	-0.433	84266.556	3.5	4D (5D)6P	103873.990	4.5	4F(5D)1[4]	
505.8103	-4.835	83713.536	3.5	4D (5D)6D	63948.790	4.5	4P (3F)4G	509.9164	-3.281	83812.316	2.5	4D (5D)6D	103417.910	1.5	4F(5D)3[1]	
505.9825	-2.970	73637.340	1.5	D5S2(7S)4F	93395.360	2.5	4P (3F)4F	509.9398	-4.199	85184.734	4.5	4D (5D)4G	65580.041	5.5	4P (3G)4G	
506.0257	-0.524	84266.556	3.5	4D (5D)6P	104022.890	3.5	4F(5D)0[3]	510.0247	-4.184	85679.698	2.5	4D (5D)4G	66078.269	2.5	4P (3G)4G	
506.1718	0.351	83136.487	3.5	4D (5D)6F	102887.120	3.5	4F(5D)4[4]	510.0607	0.247	83726.364	4.5	4D (5D)6D	103326.410	4.5	4F(5D)3[4]	
506.2299	-4.539	85679.698	2.5	4D (5D)4G	65931.334	3.5	4P (3G)4G	510.0664	-4.300	26237.205	4.5	D6S (3F)4F	42237.033	3.5	4P (5D)6F	
506.2644	-4.962	86124.301	4.5	4D (5D)4F	66377.283	3.5	4P (3G)4F	510.0727	0.812	83726.364	4.5	4D (5D)6D	103326.410	4.5	4F(5D)3[4]	
506.2935	-1.145	83136.487	3.5	4D (5D)6F	102882.370	4.5	4F(5D)4[4]	510.0822	-4.226	86599.738	2.5	4D (5D)4F	67000.517	2.5	4P (3F)2D	
506.5028	-2.210	103608.909	4.5	5S (3G)2G	83871.184	4.5	4P (1F)2F	510.0852	-2.191	47674.721	1.5	D7 (3P)2D	67273.826	1.5	4P (3F)2D	
506.5097	-0.366	84131.563	0.5	4D (5D)6D	103869.020	1.5	4F(5D)1[2]	510.1803	-3.832	49506.934	1.5	D6S (3P)4F	69102.380	2.5	4SP(5S)2P	
506.5390	-3.536	54870.528	2.5	D6S (3F)2F	74606.841	2.5	4P (3D)2D	510.2198	-1.093	83812.316	2.5	4D (5D)6D	103406.250	2.5	4F(5D)3[2]	
506.5431	-1.857	73393.745	4.5	D5S2(7S)4F	93129.900	3.5	4P (3F)4F	510.22915	-1.125	84266.556	3.5	4D (5D)6P	103857.740	2.5	4F(5D)1[2]	
506.5821	-4.935	54232.195	5.5	D5S2(7S)4G	73966.832	6.5	4P (1I)2I	510.4998	-4.731	81734.750	3.5	D5S2(7S)2F	62151.561	2.5	4P (3F)4F	
506.5992	-3.032	73395.930	2.5	D5S2(7S)4F	93129.900	3.5	4P (3F)4F	510.6097	-1.062	83812.316	2.5	4D (5D)6D	103391.290	1.5	4F(5D)3[2]	
506.7893	-0.072	83308.194	2.5	4D (5D)6F	103034.760	1.5	4F(5D)4[2]	510.6109	-0.188	83308.194	2.5	4D (5D)6F	102887.120	3.5	4F(5D)4[4]	
506.9227	-3.093	84266.556	3.5	4D (5D)6P	103987.930	2.5	4F(5D)1[3]	510.6570	-2.537	84296.830	5.5	4D (5D)6F	103873.990	4.5	4F(5D)1[4]	
506.9725	-2.387	84326.912	2.5	4D (5D)6P	104046.350	2.5	4F(5D)0[3]	510.6706	-3.517	81734.750	3.5	D5S2(7S)2G	62158.110	4.5	4P (3F)4F	
506.9872	-6.023	22939.358	2.5	D6S (3F)4F	42658.224	3.5	4P (5D)6P	510.7110	-0.637	83459.670	1.5	4D (5D)6F	103034.760	1.5	4F(5D)4[2]	
507.0584	-1.008	83308.194	2.5	4D (5D)6F	103024.290	2.5	4F(5D)4[2]	510.7245	-4.066	50075.910	1.5	D6S (3F)2F	69650.484	2.5	4P (3G)2F	
507.0899	0.347	83136.487	3.5	4D (5D)6F	102851.360	4.5	4F(5D)4[5]	510.7463	-3.425	81639.260	2.5	D5S2(7S)2F	62065.521	3.5	4P (3F)4F	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
510.7547	-0.485	83812.316	2.5	4D (5D)6D	103385.730	3.5	4F(5D)3[3]	515.1905	-2.493	84296.830	5.5	4D (5D)6G
510.9193	-2.232	83558.540	0.5	4D (5D)6F	103125.650	0.5	4F(5D)4[1]	515.2878	-0.531	83990.063	1.5	4D (5D)6D
510.9843	-1.588	83459.670	1.5	4D (5D)6F	103024.290	2.5	4F(5D)4[2]	515.4409	-4.320	22939.358	2.5	D6S (3F)4F
511.0120	-2.173	84424.370	1.5	4D (5D)6F	103987.930	2.5	4F(5D)1[3]	515.4601	-3.830	81639.260	2.5	D5S2 (7S)2F
511.2156	-0.864	84326.912	2.5	4D (5D)6F	103882.680	3.5	4F(5D)1[4]	515.4685	-1.003	84266.556	3.5	4D (5D)6G
511.3004	-0.672	83812.316	2.5	4D (5D)6D	103364.840	2.5	4F(5D)3[3]	515.4739	-0.893	84296.830	5.5	4D (5D)6G
511.3076	-2.317	83558.540	0.5	4D (5D)6F	103110.790	1.5	4F(5D)4[1]	515.7782	-0.299	84326.912	2.5	4D (5D)6P
511.5062	-0.364	84131.563	0.5	4D (5D)6D	103676.220	0.5	4F(5D)2[1]	515.7799	-3.006	85462.862	3.5	4D (5D)4G
511.5730	-3.096	84326.912	2.5	4D (5D)6P	103869.020	1.5	4F(5D)1[2]	515.7508	-2.910	84296.830	5.5	4D (5D)6G
511.7034	0.025	84131.563	0.5	4D (5D)6D	103668.690	1.5	4F(5D)2[1]	515.9978	-0.743	83990.063	1.5	4D (5D)6D
511.7102	-4.447	102842.119	4.5	5S (3C)4G	83305.251	3.5	4P (1F)2G	516.0712	-1.393	84326.912	2.5	4D (5D)6P
511.8501	-3.588	85462.862	3.5	4D (5D)4G	83931.334	3.5	4P (3G)4G	516.0839	-2.802	44915.046	3.5	D6S (1F)2F
511.8684	-1.112	84326.912	2.5	4D (5D)6P	103857.740	2.5	4F(5D)1[2]	516.1184	-4.642	23031.300	1.5	D6S (3F)4F
511.9341	-0.793	83812.316	2.5	4D (5D)6D	103340.640	3.5	4F(5D)3[4]	516.3544	-1.811	84685.198	3.5	4D (5D)4D
512.0352	-4.350	22810.357	3.5	D6S (3F)4F	42334.822	2.5	4P (5D)6F	516.5211	-2.041	84527.778	4.5	4D (5D)6G
512.3188	-2.805	81639.260	2.5	D5S2 (7S)2F	62125.620	1.5	4P (3P)2D	516.6555	-0.102	84326.912	2.5	4D (5D)6P
512.3188	-3.121	84131.563	0.5	4D (5D)6D	103645.220	1.5	4F(5D)2[2]	516.7312	-6.972	27620.412	2.5	D6S (3F)2F
512.4054	-4.124	44915.046	3.5	D6S (1F)2F	64425.408	2.5	4P (3F)2F	516.7531	-0.937	84527.778	4.5	4D (5D)6G
512.4753	-4.789	50142.786	2.5	D6S (3F)4F	69650.484	2.5	4P (3C)2F	516.8716	-2.173	84326.912	2.5	4D (5D)6P
512.5243	-3.232	58631.531	4.5	D6S (1G)2G	78137.364	3.5	4P (1D)2F	516.9033	-1.428	23317.633	2.5	D5S2 (7S)6S
512.5917	-2.413	73395.930	2.5	D5S2 (7S)4F	92899.200	2.5	4P (3F)4D	516.9808	-1.076	84685.198	3.5	4D (5D)4D
512.6197	-6.202	25787.598	1.5	D6S (3P)2P	45289.801	1.5	4P (5D)4F	517.0350	-3.027	84710.685	3.5	4D (5D)6G
512.6841	-4.827	84863.351	5.5	4D (5D)4G	65363.595	5.5	4P (3H)2H	517.0777	-0.421	84326.912	2.5	4D (5D)6P
512.7866	-2.680	44929.550	2.5	D6S (1F)2F	64425.408	2.5	4P (3F)2F	517.1640	-4.997	22637.205	4.5	D6S (3F)4F
512.8062	-2.523	84527.778	4.5	4D (5D)6G	104022.890	3.5	4F(5D)0[3]	517.2990	-2.902	47674.721	1.5	D7 (5D)2D
512.8762	-1.018	83459.670	1.5	4D (5D)6F	102952.120	2.5	4F(5D)4[3]	517.4495	-1.231	84326.912	2.5	4D (5D)6P
512.9750	-3.388	85184.734	4.5	4D (5D)4G	65696.038	4.5	4P (3G)4G	517.5392	-2.755	81639.260	2.5	D5S2 (7S)2F
513.1210	-3.450	79885.493	2.5	5S (5D)4S	60402.342	2.5	4P (3P)4F	517.6631	-3.997	84710.685	3.5	4D (5D)6G
513.2002	-4.951	85728.806	1.5	4D (5D)4S	66248.660	0.5	4P (3P)2S	517.7020	-0.089	83713.536	3.5	4D (5D)6D
513.2669	-4.114	22637.205	4.5	D6S (3F)4F	42114.818	4.5	4P (5D)6F	517.8007	-3.792	84863.351	5.5	4D (5D)4G
513.3036	-2.573	83558.540	0.5	4D (5D)6F	103034.760	1.5	4F(5D)4[2]	517.8371	-0.432	84131.563	0.5	4D (5D)6D
513.3374	-4.899	85462.862	3.5	4D (5D)4G	104937.800	4.5	4S(3P)14H	517.8707	-5.957	22810.357	3.5	D6S (3F)4F
513.4385	-4.400	85866.258	3.5	D6S (1G)2G	78137.364	3.5	4P (1D)2F	517.8959	-5.410	23031.300	1.5	D6S (3F)4F
513.6321	-4.101	50142.786	2.5	D6S (3F)4F	69606.552	3.5	4P (3C)2F	517.9171	-2.356	84685.198	3.5	4D (5D)4D
513.6610	-4.760	50187.813	3.5	D6S (3F)4F	69650.484	2.5	4P (3G)2F	517.9256	-4.622	85679.698	2.5	4D (5D)4G
513.6802	-4.454	22939.358	2.5	D6S (3F)4F	42401.302	1.5	4P (5D)6F	518.0054	-4.836	73395.930	2.5	D5S2 (7S)4F
513.9927	-4.595	85462.862	3.5	4D (5D)4G	66012.750	4.5	4P (3G)4F	518.0314	0.039	83812.316	2.5	4D (5D)6D
514.0194	-4.512	50157.452	4.5	D6S (3F)4F	69606.552	3.5	4P (3C)2F	518.0529	-5.280	22939.358	2.5	D6S (3F)4F
514.0692	-0.600	83990.063	1.5	4D (5D)6D	103437.280	0.5	4F(5D)3[1]	518.1977	-6.782	25787.598	1.5	D6S (3P)2P
514.1274	-1.343	84266.556	3.5	4D (5D)6F	103711.570	3.5	4F(5D)2[4]	518.3526	-0.789	84131.563	0.5	4D (5D)6D
514.1370	-0.620	84424.370	1.5	4D (5D)6P	103869.020	1.5	4F(5D)1[2]	518.3571	-1.964	84131.563	0.5	4D (5D)6D
514.2076	-3.080	84527.778	4.5	4D (5D)6G	103969.760	3.5	4F(5D)1[3]	518.4051	-1.200	84685.198	3.5	4D (5D)4D
514.3391	-4.367	86710.837	1.5	4D (5D)4F	67273.826	1.5	4P (3F)2D	518.4388	-4.191	84863.351	5.5	4D (5D)4G
514.3880	-0.421	84266.556	3.5	4D (5D)6P	103701.720	4.5	4F(5D)2[5]	518.6019	-1.822	84710.685	3.5	4D (5D)6G
514.4355	0.332	84424.370	1.5	4D (5D)6P	103698.440	2.5	4F(5D)2[3]	518.6873	-2.766	84424.370	1.5	4D (5D)6G
514.4748	-1.512	84266.556	3.5	4D (5D)6P	103418.080	0.5	4F(5D)3[0]	518.6873	-0.210	84424.370	1.5	4D (5D)6P
514.5817	-0.301	83990.063	1.5	4D (5D)6D	103417.910	1.5	4F(5D)3[1]	519.0161	-3.610	73637.340	1.5	D5S2 (7S)2G
514.6127	-4.119	22810.357	3.5	D6S (3F)4F	42237.033	3.5	4P (5D)6F	519.0736	-0.760	84131.563	0.5	4D (5D)6D
514.8201	-5.757	25787.598	1.5	D6S (3F)2P	69606.552	0.5	4P (5D)4D	519.0912	-0.748	84710.685	3.5	4D (5D)6G
514.8231	-4.839	50187.813	3.5	D6S (3F)4F	69606.552	3.5	4P (3G)2F	519.2442	-2.498	85184.734	4.5	4D (5D)4G
514.8907	-0.351	83990.063	1.5	4D (5D)6D	103406.250	2.5	4F(5D)3[2]	519.2860	-1.012	84424.370	1.5	4D (5D)6P
514.9006	-4.971	86416.333	3.5	4D (5D)4F	67000.517	2.5	4P (3F)2D	519.2933	-2.035	73395.930	2.5	D5S2 (7S)4F
514.9465	-0.582	84266.556	3.5	4D (5D)6P	103680.640	4.5	4F(5D)2[4]	519.4892	-0.028	84424.370	1.5	4D (5D)6P
514.9933	-4.587	81734.750	3.5	D5S2 (7S)2F	62322.431	3.5	4P (3H)2G	519.6441	-0.755	83713.536	3.5	4D (5D)6D
515.0489	-0.039	84266.556	3.5	4D (5D)6P	103676.780	3.5	4F(5D)2[3]	519.6974	-1.299	84424.370	1.5	4D (5D)6P
515.0941	-4.585	23031.300	1.5	D6S (3F)4F	42439.822	0.5	4P (5D)6F	519.7480	-3.124	48039.090	2.5	D7 (5D)2D
515.1349	-2.056	73492.215	3.5	D5S2 (7S)4F	92899.200	2.5	4P (3F)4D	519.7577	-2.789	26055.423	2.5	D6S (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
519.9122	0.188	83713.536	3.5	4D (5D)6D	102942.200	3.5	4F(5D)4[3]	523.4615	-1.954	84266.556	3.5	4D (5D)6P
520.0804	-0.181	83812.316	2.5	4D (5D)6D	103034.760	1.5	4F(5D)2[2]	523.4625	-2.311	25981.629	3.5	D6S (3G)4G
520.1235	-1.289	84424.370	1.5	4D (5D)6P	103645.220	1.5	4F(5D)4[2]	523.5136	-4.668	79439.467	3.5	5S (5D)4D
520.2592	-0.637	83726.364	4.5	4D (5D)6D	102942.200	3.5	4F(5D)4[3]	523.6613	-0.676	84326.912	2.5	4D (5D)6P
520.3638	-0.041	83812.316	2.5	4D (5D)6D	103024.290	2.5	4F(5D)4[2]	523.7059	-3.838	50212.826	2.5	D6S (3P)4F
520.4018	-4.901	87985.628	2.5	4D (5D)4F	107196.200	2.5	180DD	523.7950	-0.266	84266.556	3.5	4D (5D)6P
520.4455	-4.751	73393.745	4.5	D5S2(7S)4F	92602.703	3.5	4P (3F)2G	523.8100	-2.835	85482.862	3.5	4D (5D)4G
520.5047	-3.474	73395.930	2.5	D5S2(7S)4F	92602.703	3.5	4P (3F)2G	523.8379	-3.774	80177.975	1.5	5S (5D)6F
520.6027	-4.332	73492.215	3.5	D5S2(7S)4F	92695.374	2.5	4P (3P)2D	523.8624	-5.469	23317.633	2.5	D5S2(7S)6S
520.6472	-2.293	84844.834	2.5	4D (5D)6G	104046.350	2.5	4F(5D)0[3]	523.9813	-0.456	84326.912	2.5	4D (5D)6P
520.7566	-1.775	84685.198	3.5	4D (5D)4D	103882.680	3.5	4F(5D)1[4]	524.0601	-3.217	58666.258	3.5	D6S (1G)2G
520.9925	-0.565	84685.198	3.5	4D (5D)4D	103873.990	4.5	4F(5D)1[4]	524.1059	-0.500	83812.316	1.5	4D (5D)6P
521.1283	-2.498	84527.778	4.5	4D (5D)6G	103711.570	3.5	4F(5D)2[4]	524.1257	-1.516	84266.556	3.5	4D (5D)6P
521.2321	-3.940	87985.628	2.5	4D (5D)4F	107165.600	3.5	170DD	524.3192	-2.078	85679.698	2.5	4D (5D)4G
521.2841	-0.470	84844.834	2.5	4D (5D)6G	104022.890	3.5	4F(5D)0[3]	524.3580	-2.822	79439.467	3.5	5S (5D)4D
521.3540	-0.709	84870.863	2.5	4D (5D)4D	104046.350	2.5	4F(5D)0[3]	524.3925	-0.848	84326.912	2.5	4D (5D)6P
521.3960	-0.178	84527.778	4.5	4D (5D)6G	103701.720	4.5	4F(5D)2[5]	524.5170	-1.333	84266.556	3.5	4D (5D)6P
521.4057	-0.581	83713.536	3.5	4D (5D)6D	102887.120	3.5	4F(5D)4[4]	524.5455	-0.545	84326.912	2.5	4D (5D)6P
521.4341	-1.584	84685.198	3.5	4D (5D)4D	103857.740	2.5	4F(5D)1[2]	524.6272	-2.138	84296.830	5.5	4D (5D)6G
521.4387	-4.406	44915.046	3.5	D6S (1F)2F	64087.418	2.5	4P (3F)4G	524.6579	-2.143	88157.116	1.5	4D (5D)4F
521.4489	-0.409	84710.685	3.5	4D (5D)6G	103882.680	3.5	4F(5D)1[4]	524.7952	-0.629	84938.180	1.5	4D (5D)6G
521.4492	-3.144	85184.734	4.5	4D (5D)4G	66012.750	4.5	4P (3G)4F	524.9297	-3.404	81734.750	3.5	D5S2(7S)2F
521.5349	-0.047	83713.536	3.5	4D (5D)6D	102882.370	4.5	4F(5D)4[4]	524.9344	-0.527	83990.063	1.5	4D (5D)2F
521.5763	-2.018	84863.351	5.5	4D (5D)4G	65596.038	4.5	4P (3G)4G	525.0892	-4.827	88157.116	1.5	4D (5D)4P
521.5844	-0.108	83726.364	4.5	4D (5D)6D	102893.380	5.5	4F(5D)4[6]	525.1211	-0.498	84326.912	2.5	4D (5D)6P
521.6854	0.476	84710.685	3.5	4D (5D)6G	103873.990	4.5	4F(5D)1[4]	525.1233	-0.612	84844.834	2.5	4D (5D)6G
521.6863	0.743	84527.778	4.5	4D (5D)6G	103691.050	5.5	4F(5D)2[5]	525.1432	-3.559	79439.467	3.5	5S (5D)4D
521.7548	-1.766	83726.364	4.5	4D (5D)6D	102887.120	3.5	4F(5D)4[4]	525.2232	-3.081	83990.063	1.5	4D (5D)6D
521.8335	-3.045	44929.550	2.5	D6S (1F)2F	64087.418	2.5	4P (3F)4G	525.2506	-2.501	73393.745	4.5	D5S2(7S)4F
521.8464	-2.901	85679.698	2.5	4D (5D)4D	66522.304	2.5	4P (3G)4F	525.3514	-0.951	84296.830	5.5	4D (5D)6G
521.8521	-1.959	79439.467	3.5	5S (5D)4D	98596.650	4.5	4SP(5D)4F	525.3641	-0.078	84296.830	5.5	4D (5D)6G
521.8842	-0.114	83726.364	4.5	4D (5D)6D	102882.370	4.5	4F(5D)4[4]	525.4400	-0.992	84685.198	3.5	4D (5D)4D
521.9699	-0.750	84527.778	4.5	4D (5D)6G	103680.640	4.5	4F(5D)2[4]	525.4929	-3.418	84844.834	2.5	4D (5D)6G
521.9926	-0.459	84870.863	2.5	4D (5D)4D	104022.890	3.5	4F(5D)0[3]	525.5004	-2.798	84844.834	2.5	4D (5D)6G
522.0751	-1.598	84527.778	4.5	4D (5D)6G	103676.780	3.5	4F(5D)2[3]	525.5004	-2.798	84844.834	2.5	4D (5D)6G
522.2361	-0.237	84844.834	2.5	4D (5D)6G	103987.930	2.5	4F(5D)1[3]	525.6938	-4.428	23317.633	2.5	D5S2(7S)6S
522.2473	-4.043	80177.975	1.5	5S (5D)4D	61035.287	0.5	4P (3P)4P	525.7122	-0.454	84685.198	3.5	4D (5D)4D
522.3260	-0.223	83812.316	2.5	4D (5D)6D	102952.120	2.5	4F(5D)4[3]	525.7894	-0.464	84326.912	2.5	4D (5D)6P
522.3290	-0.720	84266.556	3.5	4D (5D)6P	103406.250	2.5	4F(5D)3[2]	525.8026	-4.001	80346.016	0.5	5S (5D)4D
522.3800	-0.319	83713.536	3.5	4D (5D)6D	102851.360	4.5	4F(5D)4[5]	525.8029	-2.288	84685.198	3.5	4D (5D)4D
522.4236	-3.945	80177.975	1.5	5S (5D)4D	61041.748	2.5	4P (3H)4G	525.8036	-4.815	79885.493	2.5	5S (5D)4D
522.4411	-0.483	83990.063	1.5	4D (5D)6D	103125.650	0.5	4F(5D)4[1]	525.8121	-0.613	84424.370	1.5	4D (5D)6P
522.5968	-0.409	83812.316	2.5	4D (5D)6D	102942.200	3.5	4F(5D)4[3]	525.8122	-1.601	84844.834	2.5	4D (5D)6G
522.7013	-3.371	77230.900	4.5	D5S2(7S)2H	96356.960	3.5	4SP(3G)2F	525.8423	-0.634	84870.863	2.5	4D (5D)4D
522.7073	-3.268	44915.046	3.5	D6S (1F)2F	64040.886	3.5	4P (3F)4G	525.8749	-3.087	84863.351	5.5	4D (5D)4G
522.7125	-2.603	54063.459	0.5	D6S (3P)2P	73189.110	1.5	4P (3F)2G	525.8879	-2.868	73637.340	1.5	D5S2(7S)4F
522.7323	0.024	84844.834	2.5	4D (5D)6G	103969.760	3.5	4F(5D)1[3]	525.9396	-2.622	77230.900	4.5	D5S2(7S)2H
522.7481	0.948	84296.830	5.5	4D (5D)6G	103421.180	6.5	4F(5D)3[6]	526.1448	-0.561	84710.685	3.5	4D (5D)6G
522.7625	-2.416	54063.459	0.5	D6S (3P)2P	73187.280	0.5	4P (3D)2P	526.2204	-1.933	84870.863	2.5	4D (5D)4D
522.7759	-0.556	84296.830	5.5	4D (5D)6G	103420.160	5.5	4F(5D)3[6]	526.2317	-0.263	85048.602	1.5	4D (5D)4D
522.8471	-2.130	83990.063	1.5	4D (5D)6G	103110.790	1.5	4F(5D)4[1]	526.2956	-0.156	84685.198	3.5	4D (5D)4D
522.8896	-0.111	84266.556	3.5	4D (5D)6P	103385.730	3.5	4F(5D)3[3]	526.3431	-1.989	84131.563	0.5	4D (5D)6D
522.9472	-1.527	84870.863	2.5	4D (5D)4D	103987.930	2.5	4F(5D)1[3]	526.3636	-1.429	84424.370	1.5	4D (5D)6P
523.1272	-2.686	73492.215	3.5	D5S2(7S)4F	92602.703	3.5	4P (3F)2G	526.3483	-0.524	84424.370	1.5	4D (5D)6P
523.1907	-0.601	84938.180	1.5	4D (5D)6G	104046.350	2.5	4F(5D)0[3]	526.4026	-0.449	84685.198	3.5	4D (5D)4D
523.2787	0.064	83726.364	4.5	4D (5D)6D	102831.320	2.5	4F(5D)4[5]	526.4177	-0.652	84710.685	3.5	4D (5D)6G
523.4447	-1.773	84870.863	2.5	4D (5D)4D	103969.760	3.5	4F(5D)1[3]	526.4697	-3.375	84685.198	3.5	4D (5D)4D
								526.4812	-3.488	26055.423	2.5	D6S (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
526.5087	-2.267	84710.685	3.5	4D (5D)6G	103698.440	2.5	4F(5D)2[3]	530.9881	-0.839	84870.863	2.5	4D (5D)4D
526.5330	-2.536	84870.863	3.5	4D (5D)4D	103857.740	2.5	4F(5D)1[2]	531.0635	-1.100	84527.778	4.5	4D (5D)6G
526.6716	-0.921	84424.370	1.5	4D (5D)6P	103406.250	2.5	4F(5D)3[2]	531.0930	-3.010	84844.834	2.5	4D (5D)6G
526.7453	-2.188	84131.563	0.5	4D (5D)6D	103110.980	1.5	4F(5D)4[1]	531.1900	-1.088	85048.602	1.5	4D (5D)4D
526.8409	-1.034	84685.198	3.5	4D (5D)4D	103660.790	2.5	4F(5D)2[1]	531.1908	-3.691	73395.930	2.5	D5S2(7S)4F
526.9755	-3.253	102842.119	4.5	5S (3G)4G	83871.184	4.5	4P (1F)2G	531.2597	-3.853	54273.641	4.5	D5S2(7S)4G
526.9922	-4.760	85048.602	1.5	4D (5D)4D	66078.269	2.5	4P (3F)4G	531.2784	-4.469	84863.351	5.5	4D (5D)4D
527.0027	-0.604	84710.685	3.5	4D (5D)6G	103680.640	4.5	4F(5D)2[4]	531.3106	-0.498	84844.834	2.5	4D (5D)6G
527.0870	-1.767	84424.370	1.5	4D (5D)6P	103391.290	1.5	4F(5D)3[2]	531.3114	-2.223	73637.340	1.5	D5S2(7S)4F
527.1100	-0.330	84710.685	3.5	4D (5D)6G	103676.780	3.5	4F(5D)2[3]	531.4034	-0.377	84527.778	4.5	4D (5D)6G
527.2049	-4.856	73395.930	2.5	D5S2(7S)4F	92358.610	1.5	4SP(5G)4F	531.5086	-0.742	85048.602	1.5	4D (5D)4D
527.2222	-0.877	83990.063	1.5	4D (5D)6D	102952.120	2.5	4F(5D)4[3]	531.5303	-4.898	54283.220	3.5	D5S2(7S)4G
527.2397	-2.034	48039.090	2.5	D7 (5D)2D	67000.517	2.5	4P (3F)2D	531.5534	-4.901	105291.010	3.5	4D (3F)4G
527.3058	-1.646	79439.467	3.5	5S (5D)4D	98391.330	3.5	4SP(5D)4D	531.5563	-1.905	85184.734	4.5	4D (5D)4G
527.5495	-1.197	84710.685	3.5	4D (5D)6G	103660.980	2.5	4F(5D)2[2]	531.5760	-1.249	84844.834	2.5	4D (5D)6G
527.5749	-4.529	81639.260	2.5	D5S2(7S)2F	62689.880	2.5	4P (3P)4D	531.5996	-2.092	84870.863	2.5	4D (5D)4D
527.6002	-2.230	25805.328	4.5	D6S (3G)4G	44753.799	3.5	4P (5D)4F	531.6615	-2.090	25428.784	5.5	D6S (3G)4G
527.8207	-1.988	85462.862	3.5	4D (5D)4G	66522.304	2.5	4P (3G)4F	531.6784	-3.086	25981.629	3.5	5S (5D)6D
527.8231	-1.357	84424.370	1.5	4D (5D)6P	103364.840	2.5	4F(5D)3[3]	531.7425	-4.705	78525.407	2.5	5S (5D)6D
527.8493	-3.974	84870.863	2.5	4D (5D)4D	65931.334	3.5	4P (3G)4G	531.7560	-1.492	84844.834	2.5	4D (5D)6G
527.8549	-3.013	85048.602	1.5	4D (5D)4D	103987.930	2.5	4F(5D)1[3]	531.7686	-4.850	84527.778	4.5	4D (5D)4D
527.8938	-2.953	47674.721	1.5	D7 (5D)2D	66612.656	1.5	4P (3G)4F	531.8187	-1.142	84527.778	4.5	4D (5D)6G
527.9822	-3.608	73492.215	3.5	D5S2(7S)4F	92426.980	4.5	4SP(5G)4F	531.8284	-1.863	84870.863	2.5	4D (5D)4D
528.0046	-2.644	73395.930	2.5	D5S2(7S)4F	92329.890	2.5	4SP(5G)4F	531.9191	-3.478	85172.809	0.5	4D (5D)4D
528.0916	-1.392	84938.180	1.5	4D (5D)6G	103869.020	1.5	4F(5D)1[2]	531.9911	-4.778	79885.493	2.5	5S (5D)4D
528.1510	-3.997	79885.493	2.5	5S (5D)4D	60956.781	3.5	4P (3H)4G	532.0430	-2.886	73492.215	3.5	D5S2(7S)4F
528.4065	-1.257	84938.180	1.5	4D (5D)6G	103857.740	2.5	4F(5D)1[2]	532.0467	-2.617	84870.863	2.5	4D (5D)4D
528.4109	-3.503	23317.633	2.5	D5S2(7S)6S	42237.033	3.5	4P (5D)6F	532.0581	-3.814	81734.750	3.5	D5S2(7S)2F
528.5285	-3.146	79439.467	3.5	5S (5D)4D	98354.660	2.5	4SP(5D)4F	532.1908	-3.080	85184.734	4.5	4D (5D)4G
528.8639	-2.139	84131.563	0.5	4D (5D)6D	103034.760	1.5	4F(5D)4[2]	532.2234	-0.164	84326.912	2.5	4D (5D)6P
528.9615	-4.813	105288.530	1.5	5D (5D)6G	86388.820	0.5	4P (3P)4D	532.2793	-2.954	73492.215	3.5	D5S2(7S)4F
529.1666	0.638	84527.778	4.5	4D (5D)6G	103420.160	5.5	4F(5D)3[6]	532.3908	-2.708	73393.745	4.5	D5S2(7S)4F
529.2459	-3.562	50212.826	2.5	D6S (3P)4F	69102.380	2.5	4SP(5S)4P	532.4933	-2.587	84870.863	2.5	4D (5D)4D
529.3191	-2.006	88189.030	0.5	4D (5D)4P	93202.090	1.5	4SP(5S)4P	532.5359	-4.421	73393.745	4.5	D5S2(7S)4F
529.3834	-2.498	79885.493	2.5	5S (5D)4D	92822.460	3.5	4SP(5G)4F	532.5553	-3.426	25981.629	3.5	D6S (3G)4G
529.4226	-1.626	87985.628	2.5	4D (5D)4P	98770.140	1.5	4SP(5D)4D	532.5698	-3.878	54283.220	3.5	D5S2(7S)4G
529.5644	-2.546	73395.930	2.5	D5S2(7S)4F	69102.380	2.5	4SP(5S)4P	532.8426	-2.642	88189.030	0.5	4D (5D)4P
529.8042	-4.050	54273.641	4.5	D5S2(7S)4G	73143.288	3.5	4P (1G)2G	532.8696	-3.657	81639.260	2.5	D5S2(7S)2F
529.8860	-0.151	84844.834	2.5	4D (5D)6G	103711.570	3.5	4F(5D)2[4]	532.8934	-0.666	84938.180	1.5	4D (5D)6G
529.8872	-4.295	105414.180	2.5	4D (3F)4G	86547.490	2.5	4P (1F)2F	532.9652	-0.755	84266.556	3.5	4D (5D)6G
530.0922	-2.622	54232.195	5.5	D5S2(7S)4G	73091.590	4.5	4P (1G)2G	533.2523	-2.212	84938.180	1.5	4D (5D)6G
530.1328	-4.897	84527.778	4.5	4D (5D)6G	103385.730	3.5	4F(5D)3[3]	533.7398	-1.253	84938.180	1.5	4D (5D)6G
530.2150	-2.379	88157.116	1.5	4D (5D)4P	69302.090	1.5	4SP(5S)4P	533.7505	-1.884	88157.116	1.5	4D (5D)4P
530.2550	-0.865	84844.834	2.5	4D (5D)6G	103698.440	2.5	4F(5D)2[1]	533.7505	-1.884	88157.116	1.5	4D (5D)4P
530.3395	-2.018	84863.351	5.5	4D (5D)4G	66012.750	4.5	4P (3G)4F	533.7732	-4.085	26055.423	2.5	D6S (3G)4G
530.4244	-3.840	47674.721	1.5	D7 (5D)2D	66522.304	2.5	4P (3G)4F	533.9529	-3.530	73393.745	4.5	D5S2(7S)4F
530.4392	-4.503	54904.222	3.5	D6S (3F)2F	73751.282	4.5	4P (1I)2H	533.9585	-0.539	84296.830	5.5	4D (5D)4G
530.4912	-4.017	80177.975	1.5	5S (5D)4D	61332.764	1.5	4P (3P)4P	533.9596	-3.460	84938.180	1.5	4D (5D)6G
530.6180	-0.138	84870.863	2.5	4D (5D)4D	103711.570	3.5	4F(5D)2[4]	534.0033	-2.431	73637.340	1.5	D5S2(7S)4F
530.6839	-4.297	84863.351	5.5	4D (5D)4G	103701.720	4.5	4F(5D)2[5]	534.0095	-2.448	84685.198	3.5	4D (5D)4D
530.6899	-3.136	85184.734	4.5	4D (5D)4G	104022.890	3.5	4F(5D)0[3]	534.0955	-0.997	84685.198	3.5	4D (5D)4D
530.7034	-3.265	73492.215	3.5	D5S2(7S)4F	93229.890	2.5	4SP(5G)4F	534.2170	-4.175	102584.963	5.5	5S (3G)4G
530.8649	-2.122	84844.834	2.5	4D (5D)6G	103676.780	3.5	4F(5D)2[3]	534.2170	-4.175	102584.963	5.5	5S (3G)4G
530.8870	-4.552	77230.900	4.5	D5S2(7S)2H	96062.060	5.5	4SP(3G)2H	534.4095	-0.663	84938.180	1.5	4D (5D)6G
530.9275	-2.628	80177.975	1.5	5S (5D)4D	99007.700	0.5	4SP(5D)4D	534.5741	-1.125	84424.370	1.5	4F(5D)4[1]
530.9308	-3.381	73395.930	2.5	D5S2(7S)4F	92225.538	1.5	5P (5D)4P	534.5955	-0.934	84685.198	3.5	4D (5D)4D
530.9846	-1.384	84863.351	5.5	4D (5D)4G	103691.050	5.5	4F(5D)2[5]	534.6571	-5.304	26055.423	2.5	D6S (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
534.6694	-3.429	85184.734	4.5	4D (5D)4G	103882.680	3.5	4F(5D)1[4]	538.2641	-2.680	84844.834	2.5	4D (5D)6G
534.6697	-4.988	84710.685	3.5	4D (5D)6G	66012.750	4.5	4P (3G)4F	538.3383	-4.166	84266.556	3.5	4D (5D)6P
534.6856	-0.241	84326.912	2.5	4D (5D)6P	103024.290	2.5	4F(5D)4[2]	538.6022	-1.315	84844.834	2.5	4D (5D)6G
534.7190	-0.181	85172.809	0.5	4D (5D)4D	103869.020	1.5	4F(5D)1[2]	538.6373	-2.360	84326.912	2.5	4D (5D)6P
534.7375	-3.354	84710.685	3.5	4D (5D)6G	103406.250	2.5	4F(5D)3[2]	538.6389	-3.209	83172.809	0.5	4D (5D)4D
534.7759	-4.004	81639.260	2.5	D5S2(7S)2F	62945.038	3.5	4P (3F)4F	538.6425	-2.138	85462.862	3.5	4D (5D)4G
534.8237	-3.264	73637.340	1.5	D5S2(7S)4F	92329.890	2.5	48P(5G)4F	538.7063	0.521	84863.351	5.5	4D (5D)4G
534.9180	-1.142	85184.734	4.5	4D (5D)4G	103873.990	4.5	4F(5D)1[4]	538.7360	-2.628	84863.351	5.5	4D (5D)4G
534.9992	-3.245	84424.370	1.5	4D (5D)6P	103110.790	1.5	4F(5D)4[1]	538.8021	-0.658	84296.830	5.5	4D (5D)6G
535.0237	-2.120	84266.556	3.5	4D (5D)6P	102952.120	2.5	4F(5D)4[3]	538.8544	-3.715	79885.493	2.5	5S (5D)4D
535.0817	-1.887	87985.628	2.5	4D (5D)4F	69302.090	1.5	48P(5S)4P	538.9033	-1.104	85495.304	2.5	4D (5D)6S
535.1933	-0.570	84685.198	3.5	4D (5D)4D	103364.840	2.5	4F(5D)3[3]	539.0195	-1.227	84870.863	2.5	4D (5D)4D
535.1974	-3.605	73492.215	3.5	D5S2(7S)4F	92171.716	4.5	4P (3F)2D	539.0367	-1.180	84844.834	2.5	4D (5D)6G
535.2065	-3.859	85679.698	2.5	4D (5D)4G	67000.517	2.5	4P (3F)2D	539.1249	-0.866	84296.830	5.5	4D (5D)6G
535.2570	-4.145	73637.340	1.5	D5S2(7S)4F	92314.758	0.5	5P (5D)4P	539.1983	-1.054	84844.834	2.5	4D (5D)6G
535.2674	-3.354	81639.260	2.5	D5S2(7S)2F	62962.205	1.5	4P (3F)4F	539.3536	-4.607	44929.550	2.5	D6S (1F)2F
535.3079	-0.379	84266.556	3.5	4D (5D)6P	102942.200	3.5	4F(5D)4[3]	539.3586	-0.830	84870.863	2.5	4D (5D)4D
535.3251	-1.206	84710.685	3.5	4D (5D)6G	103385.730	3.5	4F(5D)3[3]	539.3809	-0.200	84296.830	5.5	4D (5D)6G
535.3995	-3.004	84685.198	3.5	4D (5D)4D	66012.750	4.5	4P (3G)4F	539.5809	-1.964	84424.370	1.5	4D (5D)6P
535.5419	-0.441	84685.198	3.5	4D (5D)4D	103352.680	4.5	4F(5D)3[5]	539.5857	0.400	85495.304	2.5	4D (5D)6S
535.5957	-4.155	81734.750	3.5	D5S2(7S)2F	100400.360	2.5	48P(3P)2D	539.6075	-3.110	85184.734	4.5	4D (5D)4G
535.7045	-4.1678	105205.790	2.5	5D (5D)6G	86543.970	1.5	4P (3P)4D	539.6232	-2.993	85048.602	1.5	4D (5D)4D
535.7083	-2.522	80346.016	0.5	5S (5D)4D	99007.700	0.5	48P(5P)4D	539.6539	-2.626	85462.862	3.5	4D (5D)4G
535.8876	-0.033	84685.198	3.5	4D (5D)4D	103340.640	3.5	4F(5D)3[4]	539.7943	-0.689	84870.863	2.5	4D (5D)4D
535.9246	-0.937	84710.685	3.5	4D (5D)6G	103364.840	2.5	4F(5D)3[3]	539.8065	-0.711	84844.834	2.5	4D (5D)6G
536.0337	-1.996	79885.493	2.5	5S (5D)4D	98535.850	3.5	48P(5D)4F	539.8065	-0.711	84844.834	2.5	4D (5D)6G
536.0486	-0.576	85048.602	1.5	4D (5D)4D	103698.440	2.5	4F(5D)2[3]	539.9517	-4.635	84527.778	4.5	4D (5D)6G
536.1416	-4.917	105414.180	2.5	4D (3F)4G	86767.577	2.5	4P (3P)4D	539.9564	-0.452	84870.863	2.5	4D (5D)4D
536.2741	-0.584	84710.685	3.5	4D (5D)6P	103352.680	4.5	4F(5D)3[5]	540.1089	-0.814	85462.862	3.5	4D (5D)4G
536.2869	-2.918	25805.328	4.5	D6S (3G)4G	44446.878	3.5	4P (5D)4D	540.2059	0.536	83184.734	4.5	4D (5D)4G
536.2967	0.155	84685.198	3.5	4D (5D)4D	103326.410	4.5	4F(5D)3[4]	540.2199	-2.600	79885.493	2.5	5S (5D)4D
536.4242	-3.433	73637.340	1.5	D5S2(7S)4F	92274.120	2.5	4P (3P)4G	540.2723	-4.106	108804.667	3.5	5S (3D)4D
536.5498	-4.857	84710.685	3.5	4D (5D)6G	66078.269	2.5	4P (3G)4F	540.2907	-0.564	85172.809	0.5	4D (5D)6G
536.5550	-3.792	79439.467	3.5	5S (5D)4D	60807.230	4.5	4P (3B)4G	540.4166	-2.496	84938.180	1.5	4D (5D)6G
536.6207	-0.363	84710.685	3.5	4D (5D)6G	103340.640	3.5	4F(5D)3[4]	540.5009	-7.419	20516.960	2.5	D7 (5D)2D
536.6880	-1.130	85048.602	1.5	4D (5D)4D	103676.220	0.5	4F(5D)2[1]	540.5106	-0.303	83172.809	0.5	4D (5D)4D
536.7575	-2.516	84326.912	2.5	4D (5D)6P	102952.120	2.5	4F(5D)4[3]	540.5128	-1.715	84844.834	2.5	4D (5D)6G
536.8914	-1.126	84266.556	3.5	4D (5D)6P	102887.120	3.5	4F(5D)4[4]	540.5663	-0.459	84870.863	2.5	4D (5D)4D
536.9051	-2.481	85048.602	1.5	4D (5D)4D	103668.690	1.5	4F(5D)2[1]	540.5663	-0.459	84870.863	2.5	4D (5D)4D
536.9190	-1.914	79885.493	2.5	5S (5D)4D	98505.100	2.5	48P(5D)4D	540.5779	-2.851	84870.863	2.5	4D (5D)4D
537.0284	-0.173	84266.556	3.5	4D (5D)6P	102882.370	4.5	4F(5D)4[4]	540.6058	-2.147	85495.304	2.5	4D (5D)6S
537.0309	-0.997	84710.685	3.5	4D (5D)6G	103326.410	4.5	4F(5D)3[4]	540.6227	-1.934	83184.734	4.5	4D (5D)4G
537.0435	-0.515	84326.912	2.5	4D (5D)6P	102942.200	3.5	4F(5D)4[3]	540.7022	-2.289	84863.351	5.5	4D (5D)4G
537.1275	-0.533	85048.602	1.5	4D (5D)4D	103660.980	2.5	4F(5D)2[2]	540.8811	-2.973	48039.090	2.5	D7 (5D)2D
537.1849	-1.368	84424.370	1.5	4D (5D)6P	103034.760	1.5	4F(5D)4[2]	540.8965	-4.594	79439.467	3.5	5S (5D)4D
537.2548	-3.850	86124.301	4.5	4D (5D)4F	67516.332	5.5	4P (3G)2H	540.9085	-4.988	78843.992	0.5	5S (5D)6D
537.4621	-3.562	84296.830	5.5	4D (5D)6G	65696.038	4.5	4P (3G)4G	540.9781	-2.170	84938.180	1.5	4D (5D)6G
537.4873	-2.299	84424.370	1.5	4D (5D)6P	103024.290	2.5	4F(5D)4[2]	541.9831	-1.628	84938.180	1.5	4D (5D)6G
537.5827	-0.608	85048.602	1.5	4D (5D)4D	103645.220	1.5	4F(5D)2[2]	541.1375	-0.126	85495.304	2.5	4D (5D)6S
537.5847	-0.309	84296.830	5.5	4D (5D)6G	102893.380	5.5	4F(5D)4[6]	541.1974	-0.627	85172.809	0.5	4D (5D)4D
537.5877	-4.137	84527.778	4.5	4D (5D)6G	65931.334	3.5	4P (3G)4G	541.2746	-0.714	84870.863	2.5	4D (5D)4D
537.7115	-2.227	80177.975	1.5	5S (5D)4D	98770.140	1.5	48P(5D)4D	541.2925	-2.568	79885.493	2.5	5S (5D)4D
537.8262	-3.639	73637.340	1.5	D5S2(7S)4F	92225.538	1.5	5P (5D)4P	541.3246	-1.896	84938.180	1.5	4D (5D)6G
537.9031	-2.361	84296.830	5.5	4D (5D)6G	102882.370	4.5	4F(5D)4[4]	541.4073	-3.958	25981.629	3.5	D6S (3G)4G
537.9244	-1.118	84266.556	3.5	4D (5D)6P	102851.360	4.5	4F(5D)4[5]	541.4715	-1.400	84863.351	5.5	4D (5D)4G
538.0931	-3.005	73637.340	1.5	D5S2(7S)4F	92216.320	1.5	4P (3P)2D	541.4850	-0.300	84863.351	5.5	4D (5D)4G
538.2391	-3.415	47674.721	1.5	D7 (5D)2D	66248.660	0.5	4P (3F)2D	541.4925	-2.885	85462.862	3.5	4D (5D)4G
538.2499	-3.771	48039.090	2.5	D7 (5D)2D	66612.656	1.5	4P (3G)4F	541.5288	-3.757	54063.459	0.5	D6S (3P)2P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
541.7635	-1.342	84938.180	1.5	4D (5D)6G	103391.290	1.5	4F(5D)3[2]	546.6908	-2.041	54902.315	1.5	D6S (3P)2P
541.7730	-3.526	79885.493	2.5	5S (5D)4D	98338.280	1.5	4EP(5P)4S	546.7455	-2.803	54902.315	1.5	D6S (3P)2P
542.2679	-3.880	85048.602	1.5	4D (5D)4D	66612.656	1.5	4P (3G)4F	546.8152	-4.268	79439.467	3.5	5S (5D)4D
542.5257	-3.600	25805.328	4.5	D6S (3G)4G	44232.512	4.5	4P (5D)4F	547.0825	-5.447	54870.528	2.5	D6S (3F)2F
542.5411	-3.821	84938.180	1.5	4D (5D)6G	103364.840	2.5	4F(5D)3[3]	547.1107	-4.437	54870.528	2.5	D6S (3F)2F
542.6158	-2.472	80346.016	0.5	5S (5D)4D	98770.140	1.5	4EP(5D)4D	547.2855	-0.614	84685.198	3.5	4D (5D)4D
542.7427	-1.763	85462.862	3.5	4D (5D)4G	103882.680	3.5	4F(5D)3[4]	547.3145	-2.869	84844.834	2.5	4D (5D)6G
542.7826	-1.804	54232.195	5.5	D5S2(7S)4G	72650.658	4.5	4P (3D)4F	547.3590	-0.719	85172.809	0.5	4D (5D)4D
542.7921	-4.751	108804.667	3.5	5S (3D)4D	90386.528	4.5	5P (5D)4F	547.5193	-0.979	85728.806	1.5	4D (5D)4S
542.8686	-4.621	86416.333	3.5	4D (5D)4F	68000.788	4.5	4P (3G)2H	547.5468	-4.777	84710.685	3.5	4D (5D)6G
542.9017	-2.342	84527.778	4.5	4D (5D)6G	102942.200	3.5	4F(5D)4[3]	547.5829	-0.115	84685.198	3.5	4D (5D)4D
542.9988	0.524	85462.862	3.5	4D (5D)4G	103873.990	4.5	4F(5D)3[1]	547.6788	-3.984	84266.556	3.5	4D (5D)6F
543.1265	-3.292	108804.667	3.5	5S (3D)4D	90397.868	3.5	5P (5D)4F	547.7665	-5.683	25981.629	3.5	D6S (3G)4G
543.1539	-2.828	85679.698	2.5	4D (5D)4G	67273.826	1.5	4P (3F)2D	547.7986	-4.758	60441.033	1.5	D5S2(7S)4G
543.2967	-3.928	26352.766	4.5	D6S (3H)2H	44753.799	3.5	4P (5D)4F	547.8251	-4.033	54275.637	2.5	D5S2(7S)4G
543.5797	-5.633	26055.423	2.5	D6S (3G)4G	44446.878	3.5	4P (5D)4F	547.8318	-0.849	85462.862	3.5	4D (5D)4G
543.6618	-0.930	85048.602	1.5	4D (5D)4D	103437.280	0.5	4F(5D)3[1]	547.9260	-4.949	60445.275	2.5	D5S2(7S)4G
543.7003	-1.884	85495.304	2.5	4D (5D)6S	103882.680	3.5	4F(5D)3[1]	547.9350	-2.257	85172.809	0.5	4D (5D)4D
543.9707	-2.406	54273.641	4.5	D5S2(7S)4G	72651.876	3.5	4P (3D)4D	547.9401	-0.269	85172.809	0.5	4D (5D)4D
544.0068	-2.950	54273.641	4.5	D5S2(7S)4G	72650.658	4.5	4P (3D)4F	548.0955	-0.634	84870.863	2.5	4D (5D)4D
544.1045	-1.443	85495.304	2.5	4D (5D)6S	103869.020	1.5	4F(5D)3[1]	548.1214	-4.948	84710.685	3.5	4D (5D)6G
544.1825	-4.935	80346.016	0.5	5S (5D)4D	61974.933	1.5	4EP(7S)6P	548.2262	-2.490	85462.862	3.5	4D (5D)4G
544.2300	-1.075	85048.602	1.5	4D (5D)4D	103418.980	0.5	4F(5D)3[0]	548.3285	-4.269	84844.834	2.5	4D (5D)6G
544.2351	-0.238	85048.602	1.5	4D (5D)4D	103417.010	1.5	4F(5D)3[1]	548.3484	-1.802	84710.685	3.5	4D (5D)6G
544.2544	-3.422	54283.220	3.5	D5S2(7S)4G	72650.658	4.5	4P (3D)4F	548.6824	-3.865	80346.016	0.5	5S (5D)4D
544.2905	-4.629	54283.220	3.5	D5S2(7S)4G	104046.350	2.5	4F(5D)0[3]	548.7407	-1.066	85172.809	0.5	4D (5D)4D
544.3138	-2.201	85679.698	2.5	4D (5D)4D	63272.976	2.5	4P (3F)4F	548.7619	0.340	85462.862	3.5	4D (5D)4G
544.3256	-3.133	54063.459	0.5	D6S (3P)2P	72429.711	0.5	4P (3D)4D	548.8074	-0.775	85495.304	2.5	4D (5D)6S
544.3449	-0.574	84527.778	4.5	4D (5D)6G	102893.780	2.5	4F(5D)4[6]	548.8782	-0.415	85462.862	3.5	4D (5D)4G
544.4387	-0.106	85495.304	2.5	4D (5D)6S	103857.400	5.5	4F(5D)1[2]	549.2033	-0.758	85495.304	2.5	4D (5D)6S
544.4706	-4.143	105291.010	3.5	4D (3F)4G	86929.649	3.5	4P (3P)4D	549.2061	-4.752	80177.975	1.5	5S (5D)4D
544.5305	-0.932	84527.778	4.5	4D (5D)6G	63272.976	2.5	4P (3F)4D	549.2079	-0.192	85679.698	2.5	4D (5D)4G
544.5724	-0.322	44915.046	3.5	D6S (1F)2F	103406.250	2.5	4F(5D)3[2]	549.2399	-0.031	84685.198	3.5	4D (5D)4D
544.5807	-0.022	85048.602	1.5	4D (5D)4D	45289.801	1.5	4P (5D)4F	549.2679	-1.189	85184.734	4.5	4D (5D)4G
544.5984	-6.518	26932.748	0.5	D6S (3P)2P	96217.420	3.5	4EP(5P)4D	549.3547	1.396	85462.862	3.5	4D (5D)4G
544.6357	-4.556	77861.625	4.5	5S (5D)6D	102882.370	4.5	4F(5D)4[4]	549.3833	0.285	84685.198	3.5	4D (5D)4D
544.6714	-1.633	84527.778	4.5	4D (5D)6G	61093.413	2.5	4P (3G)4F	549.6022	-1.874	84844.834	2.5	4D (5D)6G
544.8505	-4.277	84870.863	2.5	4D (5D)4D	66522.304	2.5	4P (3P)2D	549.6204	-2.264	85679.698	2.5	4D (5D)4G
544.9249	-3.995	79439.467	3.5	5S (5D)4D	61993.413	2.5	4P (3P)2D	549.6488	-3.785	84710.685	3.5	4D (5D)6G
544.9903	-4.292	54275.637	2.5	D5S2(7S)4G	72619.490	2.5	4P (3D)4D	549.6764	3.025	84938.180	1.5	4D (5D)6G
545.0030	-4.027	44929.550	2.5	D6S (1F)2F	63272.976	2.5	4P (3F)4D	549.7066	-3.325	54870.528	2.5	D6S (3F)2F
545.0099	-0.168	85679.698	2.5	4D (5D)4G	104022.920	3.5	4F(5D)0[3]	549.8229	-6.431	20830.582	2.5	D6S (3P)4F
545.0249	-2.384	85048.602	1.5	4D (5D)4D	103391.290	1.5	4F(5D)3[2]	549.8576	-0.328	85495.304	2.5	4D (5D)6S
545.0454	-7.424	20516.960	2.5	D7 (5D)2D	38858.958	2.5	4P (5D)6D	549.9187	-2.307	84844.834	2.5	4D (5D)6G
545.1318	-0.773	84685.198	3.5	4D (5D)4D	103024.290	2.5	4F(5D)4[2]	549.9615	-1.086	85679.698	2.5	4D (5D)4D
545.2157	-3.322	54283.220	3.5	D5S2(7S)4G	72619.490	2.5	4P (3D)4D	550.0025	-1.928	80177.975	1.5	5S (5D)4D
545.3010	-4.710	84710.685	3.5	4D (5D)6G	66377.283	3.5	4P (3G)4F	550.0814	-3.467	105711.730	2.5	5D (5D)6S
545.4877	-4.464	80177.975	1.5	5S (5D)4D	98505.100	2.5	4EP(5D)4D	550.1010	-0.857	84710.685	3.5	4D (5D)6G
545.5932	-0.487	84527.778	4.5	4D (5D)6G	102851.360	4.5	4F(5D)0[3]	550.1024	-0.830	85495.304	2.5	4D (5D)6S
545.7730	-0.066	85728.806	1.5	4D (5D)4G	104046.350	2.5	4F(5D)0[3]	550.1259	-3.104	84938.180	1.5	4D (5D)6G
545.8120	-2.119	85048.602	1.5	4D (5D)4D	103364.840	2.5	4F(5D)3[3]	550.1464	-4.393	78185.030	3.5	D5S2(7S)2C
545.8904	-3.128	84710.685	3.5	4D (5D)4D	103024.290	2.5	4F(5D)4[2]	550.2309	-3.139	84679.260	2.5	D5S2(7S)2F
545.9828	-4.264	79885.493	2.5	5S (5D)4D	98196.000	1.5	4EP(5D)4F	550.2671	-0.031	85184.734	4.5	4D (5D)4G
545.9828	-4.264	79885.493	2.5	5S (5D)4D	98196.000	1.5	4EP(5D)4F					
546.0506	-1.232	85679.698	2.5	4D (5D)4G	103987.930	2.5	4F(5D)1[3]					
546.1906	-1.713	84527.778	4.5	4D (5D)6G	102831.320	5.5	4F(5D)4[5]					
546.3544	-4.840	105065.630	3.5	5D (5D)6G	86767.577	2.5	4P (3P)4D					
546.5931	0.581	85679.698	2.5	4D (5D)4G	103969.760	3.5	4F(5D)1[3]					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
550.3211	-0.047	84685.198	3.5	4D (5D)4D	102851.360	4.5	4F(5D)4[5]	554.5233	-2.994	105630.750	2.5	5D (5D)4G	87602.250	1.5	4SP(5G)6F
550.3307	-3.905	108804.667	3.5	5S (3D)4D	90638.822	2.5	5P (5D)4D	554.5271	-5.714	20830.582	2.5	D6S (3P)4F	38858.958	2.5	4P (5D)6D
550.3358	-0.484	85495.304	2.5	4D (5D)6S	103660.980	2.5	4F(5D)2[2]	554.5875	-4.101	80177.975	1.5	5S (5D)4F	62151.561	2.5	4P (3F)4F
550.3897	-0.425	84870.863	2.5	4D (5D)4D	103034.760	1.5	4F(5D)4[2]	554.6603	-3.605	108804.667	3.5	5S (3D)4D	90780.621	3.5	5P (5D)4F
550.4201	-4.795	84685.198	3.5	4D (5D)4D	66522.304	2.5	4P (3G)4F	554.7119	-2.794	81734.750	3.5	D5S2(7S)2F	99757.120	4.5	4P (1G)2G
550.4986	-3.349	80177.975	1.5	5S (5D)4D	98338.280	1.5	4SP(5P)4S	554.8151	-0.828	84863.351	5.5	4D (5D)4G	102882.370	4.5	4F(5D)4[4]
550.5056	-3.050	79885.993	2.5	5S (5D)4D	61726.077	3.5	4P (3P)4S	554.8236	-0.402	85679.698	2.5	4D (5D)4G	103698.440	2.5	4F(5D)2[3]
550.6195	0.950	84863.351	5.5	4D (5D)4G	103019.670	6.5	4F(5D)4[7]	554.8457	-2.944	80177.975	1.5	5S (5D)4F	98196.000	1.5	4SP(5D)4F
550.6320	-1.640	85184.734	4.5	4D (5D)4G	103340.640	3.5	4F(5D)3[4]	554.9001	-0.083	84870.863	2.5	4D (5D)4D	102887.120	3.5	4F(5D)4[4]
550.6437	-4.809	60270.339	3.5	D5S2(7S)4D	42114.818	4.5	4P (5D)6F	554.9238	-4.370	44929.550	2.5	D6S (1F)2F	62945.038	3.5	4P (3F)4D
550.7072	-0.121	84870.863	2.5	4D (5D)4D	103024.290	2.5	4F(5D)4[2]	554.9715	-4.096	84938.180	1.5	4D (5D)6G	102952.120	2.5	4F(5D)4[3]
550.7333	-4.894	54902.315	1.5	D6S (3P)2F	73054.881	2.5	4P (1G)2F	555.4914	-0.640	85679.698	2.5	4D (5D)4G	103676.780	3.5	4F(5D)2[3]
550.7912	-3.756	54904.222	3.5	D6S (3F)2F	73054.881	2.5	4P (1G)2F	555.5167	-2.526	81639.260	3.5	D5S2(7S)2F	99635.520	3.5	4SP(3G)2G
550.7961	-3.484	84527.778	4.5	4D (5D)6G	66377.283	3.5	4P (3G)4F	555.6401	-3.174	80346.016	0.5	5S (5D)4D	98338.280	1.5	4SP(5P)4S
550.8137	-1.188	85495.304	2.5	4D (5D)6S	103645.220	1.5	4F(5D)2[2]	555.7412	-2.042	85679.698	2.5	4D (5D)4G	103668.690	1.5	4F(5D)2[1]
550.8258	-3.741	54063.459	0.5	D6S (3P)2F	72212.978	0.5	4P (3D)4P	555.7716	-1.492	84863.351	5.5	4D (5D)4G	102851.360	4.5	4F(5D)4[5]
550.9442	-4.487	54870.528	2.5	D6S (3P)2F	73016.147	3.5	4P (1G)2F	555.8287	-0.511	85048.602	1.5	4D (5D)4D	103034.760	1.5	4F(5D)4[2]
551.0212	-7.090	20516.960	2.5	D7 (5D)2D	38660.043	3.5	4P (5D)6D	555.9795	-0.847	85679.698	2.5	4D (5D)4G	103660.980	2.5	4F(5D)2[2]
551.0639	-1.270	85184.734	4.5	4D (5D)4G	103326.410	4.5	4F(5D)3[4]	556.0273	-3.220	78237.685	3.5	5S (5D)6D	96217.420	3.5	4SP(5P)4D
551.0943	-1.510	84710.685	3.5	4D (5D)6G	103325.950	5.5	4F(5D)3[5]	556.0325	-3.940	54063.459	0.5	D6S (3P)2F	72043.026	1.5	4P (3D)4F
551.1083	-0.344	85728.806	1.5	4D (5D)4S	102851.360	4.5	4F(5D)4[5]	556.0879	-4.102	105449.540	3.5	5D (5D)4G	87471.765	4.5	4SP(5G)6F
551.1361	-3.704	105711.730	2.5	5D (5D)6S	87572.431	2.5	4SP(5G)6F	556.1150	-0.629	84863.351	5.5	4D (5D)4G	102840.250	6.5	4F(5D)4[6]
551.4512	-1.775	85728.806	1.5	4D (5D)4S	103857.740	2.5	4F(5D)1[2]	556.1525	-0.643	85048.602	1.5	4D (5D)4D	103024.290	2.5	4F(5D)4[2]
551.7633	-7.932	20340.300	5.5	D7 (5D)2D	38458.981	4.5	4P (5D)6D	556.3399	-0.543	85728.806	1.5	4D (5D)4S	103698.440	2.5	4F(5D)2[3]
551.9691	-3.500	54904.222	3.5	D6S (3F)2F	73016.147	3.5	4P (1G)2F	556.3914	-1.734	84863.351	5.5	4D (5D)4G	102831.320	1.5	4F(5D)4[5]
551.9845	-6.159	26932.748	0.5	D6S (3P)2F	45044.168	1.5	4P (5D)4D	556.4672	-1.754	85679.698	2.5	4D (5D)4G	103645.220	1.5	4F(5D)2[2]
552.0140	-4.538	60445.275	2.5	D5S2(7S)4D	42334.822	2.5	4P (5D)6F	556.5492	-2.936	54275.637	2.5	D5S2(7S)4G	72238.513	2.5	4P (3D)4F
552.0436	-3.359	105711.730	2.5	5D (5D)6S	87602.250	1.5	4F(5D)4[3]	556.7842	-2.018	54283.220	3.5	D5S2(7S)4G	72238.513	2.5	4P (3D)4F
552.1105	-1.712	84844.834	2.5	4D (5D)6G	102952.120	2.5	4F(5D)4[3]	556.8916	-4.941	78577.280	0.5	D3S2(7S)2G	60625.449	5.5	4P (3H)4G
552.1638	-4.150	54063.459	0.5	D6S (3P)2F	72168.998	1.5	4P (3D)4F	556.9599	-4.535	84326.912	2.5	4D (5D)6P	66377.283	3.5	4P (3G)4F
552.2871	-3.650	80346.016	0.5	5S (5D)4D	62244.520	1.5	4P (3F)4F	557.0147	-4.671	105288.847	6.5	4D (3F)4H	87340.983	5.5	4SP(5G)6F
552.4132	-2.430	84844.834	2.5	4D (5D)6G	102942.200	3.5	4F(5D)4[3]	557.0287	-0.768	85728.806	1.5	4D (5D)4S	103676.220	0.5	4F(5D)2[1]
552.4371	-2.830	84938.180	1.5	4D (5D)6G	103034.760	1.5	4F(5D)4[2]	557.1536	-0.980	85462.862	3.5	4D (5D)4G	103406.250	2.5	4F(5D)3[2]
552.5019	-2.878	78185.030	3.5	D5S2(7S)2G	96279.490	2.5	4SP(3G)2F	557.2625	-2.014	85728.806	1.5	4D (5D)4S	103668.690	1.5	4F(5D)2[1]
552.5125	-5.051	26352.766	4.5	D6S (3H)2H	44446.878	3.5	4P (5D)4D	557.3216	-1.840	85172.809	0.5	4D (5D)4D	103110.790	1.5	4F(5D)4[1]
552.7570	-3.979	84938.180	1.5	4D (5D)6G	103024.290	2.5	4F(5D)4[2]	557.4622	-3.694	80177.975	1.5	5S (5D)4D	62244.520	1.5	4P (3F)4F
552.9053	-0.048	84870.863	2.5	4D (5D)4D	102952.120	2.5	4F(5D)4[3]	557.5021	-0.725	85728.806	1.5	4D (5D)4S	103660.980	2.5	4F(5D)2[2]
552.9932	-2.015	54273.641	4.5	D5S2(7S)4G	72352.024	3.5	4P (3D)4F	557.7915	-0.045	85462.862	3.5	4D (5D)4G	103385.730	3.5	4F(5D)3[3]
553.0341	-0.542	85048.602	1.5	4D (5D)4D	103125.650	0.5	4F(5D)4[1]	557.7997	-0.588	85495.304	2.5	4D (5D)6S	103417.910	1.5	4F(5D)3[1]
553.0543	-4.513	54275.637	2.5	D5S2(7S)4G	72352.024	3.5	4P (3D)4F	557.9284	-2.481	81734.750	3.5	D5S2(7S)2F	99653.220	4.5	4SP(3G)2G
553.1380	-3.603	81734.750	3.5	D5S2(7S)2F	99808.400	3.5	4P (1G)2G	558.1335	-2.777	83728.806	1.5	4D (5D)4S	103645.220	1.5	4F(5D)2[2]
553.2088	-0.112	84870.863	2.5	4D (5D)4D	102942.200	3.5	4F(5D)4[3]	558.1628	-0.413	85495.304	2.5	4D (5D)6S	103406.250	2.5	4F(5D)3[2]
553.2864	-2.911	54283.220	3.5	D5S2(7S)4G	72352.024	3.5	4P (3D)4F	558.3944	-0.684	108804.667	1.5	5S (3D)4D	90901.124	2.5	5P (5D)4F
553.4847	-3.273	26170.181	5.5	D6S (3H)2H	44232.512	4.5	4P (5D)4F	558.4822	-0.762	108804.667	1.5	4D (5D)4D	102952.120	2.5	4F(5D)4[3]
553.4890	-0.523	85048.602	1.5	4D (5D)4D	103110.790	1.5	4F(5D)4[1]	558.4824	-3.458	85462.862	3.5	4D (5D)4G	103364.840	2.5	4F(5D)3[3]
553.6076	-3.191	105630.750	2.5	5D (5D)4G	87572.431	2.5	4SP(5G)6F	558.4801	-2.865	81734.750	3.5	D5S2(7S)2F	99635.520	3.5	4SP(3G)2G
553.7899	-3.572	80177.975	1.5	5S (5D)4D	62125.600	1.5	4P (3P)2D	558.5359	-3.843	85172.809	0.5	4D (5D)4D	67273.826	1.5	4P (3F)2D
553.9216	-3.789	85048.602	1.5	4D (5D)4D	67000.517	2.5	4P (3F)2D	558.5482	-2.753	86124.301	4.5	4D (5D)4F	104022.890	3.5	4F(5D)0[3]
554.0996	-3.010	84844.834	2.5	4D (5D)6G	102887.120	3.5	4F(5D)4[4]	558.6294	-1.060	85495.304	2.5	4D (5D)6S	103391.290	1.5	4F(5D)3[2]
554.1781	-4.791	60441.033	1.5	D5S2(7S)4D	42401.302	1.5	4P (5D)6F	558.7114	-2.181	54275.637	2.5	D5S2(7S)4G	72168.998	1.5	4P (3D)4F
554.1950	-4.296	48039.090	2.5	D7 (5D)2D	66078.269	2.5	4P (3G)4G	558.7101	-0.576	85495.304	2.5	4D (5D)6S	103385.730	3.5	4F(5D)3[3]
554.3755	-4.441	60270.339	3.5	D5S2(7S)4D	42237.033	3.5	4P (5D)6F	558.8030	-0.203	85462.862	3.5	4D (5D)4G	103352.680	4.5	4F(5D)3[5]
554.3955	-3.272	44929.550	2.5	D6S (1F)2F	62962.205	1.5	4P (3P)4D	559.1368	-4.978	26352.766	4.5	D6S (3H)2H	44232.512	4.5	4P (5D)4F
554.4196	-0.108	85679.698	2.5	4D (5D)4G	103711.570	3.5	4F(5D)2[4]	559.1984	-2.220	105449.540	3.5	5D (5D)4G	103340.640	3.5	4F(5D)3[4]
554.4763	0.229	84863.351	5.5	4D (5D)4G	102893.380	5.5	4F(5D)4[6]	559.2193	-2.238	85462.862	3.5	4D (5D)4G	10340.640	3.5	4F(5D)3[4]
554.4774	-4.164	44915.046	3.5	D6S (1F)2F	62945.038	3.5	4P (3F)4D	559.4368	-4.048	105211.140	4.5	5D (5D)4G	87572.431	2.5	4SP(5G)6F
554.4915	-4.141	54232.195	5.5	D5S2(7S)4G	72261.729	5.5	4P (1G)2H	559.4368	-4.048	105211.140	4.5	5D (5D)4G	87340.983	5.5	4SP(5G)6F

WL(NM)	LOGGFF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGFF	EVEN E	J	LABEL
559.4563	-0.901	85495.304	2.5	4D (5D)6S	103364.840	2.5	4F(5D)3[3]	565.6261	-4.018	73395.930	2.5	D5S2(7S)4F
559.6438	-1.584	85462.862	3.5	4D (5D)4G	103326.410	4.5	4F(5D)3[4]	565.6623	-1.710	105211.140	4.5	5D (5D)4G
559.6939	-1.968	85172.809	0.5	4D (5D)4D	103034.760	1.5	4F(5D)4[2]	565.7935	-4.336	27620.412	2.5	D6S (3F)2F
559.8569	-4.910	54273.641	4.5	D5S2(7S)4G	72130.390	3.5	4P (1G)2H	565.8336	-2.274	105205.790	2.5	5D (5D)6G
559.9346	-8.943	20805.770	4.5	D7 (5D)2H	38660.043	3.5	4P (5D)6D	565.8820	-0.629	85184.734	4.5	4D (5D)4G
560.0691	-2.418	80346.016	0.5	5S (5D)4D	98196.000	1.5	4S(5D)4F	565.8988	-2.987	105630.750	2.5	5D (5D)4G
560.1081	-3.024	77230.900	4.5	D5S2(7S)2H	95079.640	3.5	4P (3F)2F	566.0147	-0.382	85728.806	1.5	4D (5D)4S
560.2111	-4.066	86124.301	4.5	4D (5D)4F	103969.760	3.5	4F(5D)1[3]	566.0328	-3.410	78577.280	4.5	D5S2(7S)2G
560.2150	-1.148	85495.304	2.5	4D (5D)6S	103340.640	3.5	4F(5D)3[4]	566.0641	-1.869	85679.698	2.5	4D (5D)4G
560.4935	-4.540	79885.493	2.5	5S (5D)4D	62049.025	2.5	4S(7S)6P	566.3313	-1.126	105288.530	1.5	5D (5D)6G
560.5912	-6.812	25787.998	1.5	D6S (3F)2P	43620.957	1.5	4P (5D)6P	566.3396	-2.624	105711.730	2.5	D5S2(7S)4F
560.7138	-5.488	20830.582	2.5	D6S (3P)4F	38660.043	3.5	4P (5D)6D	566.3404	-3.040	73395.930	2.5	D5S2(7S)2F
561.0124	-3.195	79885.493	2.5	5S (5D)4D	62065.521	3.5	4P (3F)4F	566.5007	-2.118	85184.734	4.5	4D (5D)4G
561.2327	-4.733	50187.813	3.5	D6S (3F)4F	68000.788	4.5	4P (3G)2H	566.5246	-4.642	81734.750	3.5	D5S2(7S)2F
561.2333	-4.063	73395.930	2.5	D5S2(7S)4F	91208.887	1.5	5P (5D)4F	566.7049	-4.390	79885.493	2.5	5S (5D)4D
561.6019	-7.349	21308.040	1.5	D7 (5D)2D	39109.307	0.5	4P (5D)6D	566.7317	-4.778	78577.280	4.5	D5S2(7S)2G
562.0852	-3.881	81734.750	3.5	D5S2(7S)2F	63948.790	4.5	4P (3F)4G	566.8636	-0.704	85728.806	1.5	4D (5D)4S
562.2310	-4.810	54870.528	2.5	D6S (3F)2F	72651.876	3.5	4P (3D)4D	566.9496	-1.195	105205.790	2.5	5D (5D)6G
562.2837	-2.852	78577.280	4.5	D5S2(7S)2G	96356.960	3.5	4S(3G)2F	567.0571	-1.913	86416.333	3.5	4D (5D)4F
562.4373	-4.986	44915.046	3.5	D6S (1F)2F	62689.880	2.5	4P (3P)4D	567.1207	-3.535	105230.290	0.5	5D (5D)4D
562.4570	-4.986	73393.745	4.5	D5S2(7S)4F	91167.937	3.5	5P (5D)6P	567.3070	-3.135	54930.315	1.5	D6S (3P)2P
562.6727	-3.045	54275.637	2.5	D5S2(7S)4G	72043.026	1.5	4P (3D)4P	567.5248	-0.432	85495.304	2.5	4D (5D)6S
562.7497	-4.395	27314.922	3.5	D6S (3F)2F	45079.879	2.5	4P (5D)4F	567.6335	-4.140	60270.333	1.5	D5S2(7S)4F
562.7832	-4.941	846685.198	3.5	D6S (5D)4D	102449.100	2.5	4S(3D)2D	567.8127	-1.865	86416.333	3.5	4D (5D)4F
562.8964	-4.404	44929.550	2.5	D6S (5D)4D	62689.880	2.5	4P (3P)4D	567.9100	-0.833	105205.790	2.5	5D (5D)6G
562.9102	-3.766	79885.493	2.5	5S (5D)4D	62125.600	1.5	4F(3D)2D	568.0767	-4.140	81639.260	0.5	D5S2(7S)2F
562.9582	-3.654	86124.301	4.5	4D (5D)4F	103882.680	3.5	4F(3D)1[4]	568.2066	-3.774	105230.290	0.5	5D (5D)4D
562.9701	-3.457	78237.685	3.5	5S (5D)6D	95959.690	2.5	4S(5P)4D	568.2223	-2.369	105065.630	3.5	5D (5D)6G
562.9871	-0.917	85184.734	4.5	4D (5D)4G	102942.200	3.5	4F(5D)4[3]	568.3433	-3.644	105127.770	2.5	5D (5D)4D
563.2338	-2.154	86124.301	4.5	4D (5D)4F	103873.990	4.5	4F(3D)1[4]	568.4171	-4.369	78577.280	4.5	D5S2(7S)2G
563.2984	-3.460	54904.222	3.5	D6S (3F)2F	72651.876	3.5	4P (3D)4D	568.4354	-2.242	86124.301	4.5	4D (5D)4F
563.3166	-3.549	105711.730	2.5	5D (5D)6S	87964.650	1.5	4S(5P)6D	568.7244	-3.683	73492.215	3.5	D5S2(7S)4F
563.3371	-4.814	54904.222	3.5	D6S (3F)2F	72650.658	4.5	4P (3D)4F	568.7539	-1.678	86124.301	4.5	4D (5D)4F
563.5613	-2.481	105211.140	4.5	5D (5D)4G	87471.765	4.5	4S(5G)6F	568.9424	-2.521	86416.333	3.5	4D (5D)4F
563.5982	-1.480	85679.698	2.5	4D (5D)4G	103417.910	1.5	4F(3D)3[1]	568.9440	-3.280	73637.340	1.5	D5S2(7S)4F
563.7283	-3.255	108804.667	3.5	5S (3D)4D	91070.547	2.5	5P (5D)4F	568.9497	-4.232	105630.750	2.5	5D (5D)4G
563.7343	-3.091	79885.493	2.5	5S (5D)4D	62151.561	2.5	4P (3F)4F	569.0994	-0.072	86124.301	4.5	4D (5D)4F
563.9690	-0.607	85679.698	2.5	4D (3F)4G	103406.250	2.5	4F(5D)3[2]	569.1388	-6.863	26055.423	2.5	D6S (3G)4G
564.0958	-4.811	105063.550	5.5	4D (3F)4G	87340.983	5.5	4S(5G)6F	569.2189	-3.458	79885.493	2.5	5S (5D)4D
564.3017	-2.393	105288.530	1.5	5D (5D)6G	87572.431	2.5	4S(5P)6F	569.2401	-3.153	73637.340	1.5	D5S2(7S)4F
564.3282	-4.661	54904.222	3.5	D6S (3F)2F	72619.490	2.5	4P (3D)4D	569.4368	-0.985	85462.862	3.5	4D (5D)4G
564.3880	-2.062	79439.467	3.5	5S (5D)4D	61726.077	3.5	4P (3P)4D	569.4693	-3.611	105127.770	2.5	5D (5D)4D
564.4453	-2.977	85679.698	2.5	4D (5D)4G	103391.290	1.5	4F(5D)3[2]	569.5621	-1.772	86124.301	4.5	4D (5D)4F
564.4907	-4.743	84710.685	3.5	4D (5D)6G	67000.517	2.5	4P (3F)2D	569.5313	-1.135	86416.333	3.5	4D (5D)4F
564.5392	-0.227	85184.734	4.5	4D (5D)4G	102893.380	5.5	4F(3D)4[6]	569.5827	-3.379	81639.260	0.5	D5S2(7S)2F
564.5447	-1.746	85728.806	1.5	4D (5D)4S	103437.280	0.5	4F(5D)3[1]	569.6127	-8.073	21308.040	1.5	D7 (5D)2D
564.6226	-0.612	85679.698	2.5	4D (5D)4G	103385.730	3.5	4F(3D)3[3]	569.6178	-3.458	79885.493	2.5	5S (5D)4D
564.6502	-7.976	21308.040	1.5	D7 (5D)2D	39013.206	1.5	4P (5D)6D	569.9850	-1.384	85495.304	2.5	4D (5D)6S
564.7389	-1.062	85184.734	4.5	4D (5D)4S	102887.120	3.5	4F(5D)4[4]	570.3254	-0.640	85495.304	2.5	4D (5D)6S
564.8904	-0.106	85184.734	4.5	4D (5D)4G	64040.886	3.5	4F(3D)4[4]	570.3582	-1.139	105065.630	3.5	5D (5D)6G
565.0109	-3.332	81734.750	3.5	D5S2(7S)2F	102882.370	4.5	4F(3D)4[4]	570.3732	-2.727	104868.500	4.5	5D (5D)6G
565.0700	-3.284	78525.407	2.5	5S (5D)6D	96217.420	3.5	4S(5P)4D	570.4382	-3.064	105127.770	2.5	5D (5D)4D
565.1575	-0.490	85728.806	1.5	4D (5D)4S	103418.080	0.5	4F(5D)3[10]	570.4382	-3.064	105127.770	2.5	5D (5D)4D
565.1629	-0.844	85728.806	1.5	4D (5D)4S	103417.910	1.5	4F(5D)3[11]	570.5383	-2.514	104863.430	5.5	5D (5D)4G
565.2531	-1.415	105288.530	1.5	5D (5D)6G	87602.250	1.5	4S(5G)6F	570.7176	-3.169	80346.016	0.5	5S (5D)4D
565.2895	-1.874	85679.698	2.5	4D (5D)4G	103364.840	2.5	4F(5D)3[3]	571.1006	-4.403	73395.930	2.5	D5S2(7S)4F
565.3476	-4.945	105155.090	4.5	4D (3F)4G	87471.765	4.5	4S(5G)6F	571.1740	-3.703	73395.930	2.5	D5S2(7S)4F
565.5357	-0.565	85728.806	1.5	4D (5D)4S	103406.250	2.5	4F(5D)3[2]	571.1957	-2.097	105711.730	2.5	5D (5D)6S

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
571.2453	-3.917	103983.510	3.5	5S (3G)2G	86482.750	3.5	4P (1F)2F	576.6906	-0.786	86710.837	1.5	4D (5D)4F
571.3563	-3.791	86599.738	2.5	4D (5D)4F	69102.380	2.5	4D (5D)4F	576.7861	-3.360	78525.407	2.5	5S (3D)6D
571.4922	-0.627	105065.630	3.5	5D (5D)6G	87512.431	2.5	4SP(5S)4F	576.8018	-4.625	105230.290	0.5	5D (5D)4D
571.6210	-1.515	85462.862	3.5	4D (5D)4G	102952.120	2.5	4F(5D)4[3]	576.8458	-0.399	104868.500	4.5	5D (5D)6G
571.6590	-2.857	80177.975	1.5	5S (5D)4D	62689.880	2.5	4P (3F)4D	577.0779	-1.560	105288.530	1.5	5D (5D)6G
571.7674	-4.593	78577.280	4.5	D5S2(7S)2G	96062.060	5.5	4SP(3G)2H	577.3748	-3.616	84929.450	1.5	4P (3F)4F
571.9454	-0.917	85462.862	3.5	4D (5D)4G	102942.200	3.5	4F(5D)4[3]	577.4087	-3.425	86416.333	3.5	4D (5D)4F
572.2418	-3.585	78525.407	2.5	5S (5D)6D	95995.690	2.5	4SP(5P)4D	577.5185	-3.853	54902.315	1.5	D6S (3F)2F
572.2564	-6.465	27314.922	3.5	D6S (3F)2F	44784.761	2.5	4F(5D)1[4]	577.5625	-4.331	81734.750	3.5	D5S2(7S)2F
572.3708	-2.140	86416.333	3.5	4D (5D)4F	103882.680	3.5	4P (5D)1[4]	577.8477	-2.018	104873.230	3.5	5D (5D)4D
572.5963	-4.988	27620.412	2.5	D6S (3F)2F	45079.879	2.5	4P (5D)4F	577.8477	-2.018	104873.230	3.5	5D (5D)4D
572.6557	-0.094	86416.333	3.5	4D (5D)4F	103873.990	4.5	4F(5D)1[4]	577.9255	-4.626	54870.528	2.5	D6S (3F)2F
572.6833	-2.007	85495.304	2.5	4D (5D)6S	102952.120	2.5	4F(5D)4[3]	577.9530	-3.953	86599.738	2.5	4D (5D)4F
572.8745	-7.859	25787.598	1.5	D6S (3P)2P	43238.586	2.5	4P (5D)6P	577.9662	-6.262	21812.055	1.5	D6S (3P)4P
572.9593	-2.959	81734.750	3.5	D5S2(7S)2F	64286.345	3.5	4P (3F)2F	578.0128	-0.389	86124.301	4.5	4D (5D)4F
572.9791	-3.623	54904.222	3.5	D6S (3F)2F	72352.024	3.5	4P (3D)4F	578.0253	-1.070	85728.806	1.5	4D (5D)4S
573.0089	-1.067	85495.304	2.5	4D (5D)6S	102942.200	3.5	4F(5D)4[3]	578.0336	-0.328	86416.333	3.5	4D (5D)4F
573.0182	-0.988	86599.738	2.5	4D (5D)4F	104046.350	2.5	4F(5D)0[3]	578.1917	-4.709	104828.160	2.5	5D (5D)6D
573.0857	-3.871	100749.810	2.5	5S (3F)2F	83305.251	3.5	4P (1F)2G	578.2620	-4.337	73492.215	3.5	D5S2(7S)4F
573.1892	-2.830	86416.333	3.5	4D (5D)4F	103857.740	2.5	4SP(3P)2P	578.2787	-3.816	79439.467	3.5	5S (5D)4D
573.2099	-3.565	79885.493	2.5	5S (5D)4D	97326.270	1.5	4SP(3P)2P	578.3630	-0.346	86416.333	3.5	4D (5D)4F
573.2724	-4.809	27314.922	3.5	D6S (3F)2F	44753.799	3.5	4P (5D)4F	578.4142	-4.736	86710.837	1.5	4D (5D)4F
573.3663	-3.564	103983.510	3.5	5S (3G)2G	86547.490	2.5	4P (1F)2F	578.4448	-0.083	86599.738	2.5	4D (5D)4F
573.4589	-4.604	73637.340	1.5	D5S2(7S)4F	91070.547	2.5	5P (5D)4F	578.4727	-1.679	86416.333	3.5	4D (5D)4F
573.5284	-2.277	85679.698	2.5	4D (5D)4G	103110.790	1.5	4F(5D)4[1]	578.4978	-3.043	79439.467	3.5	5S (5D)4D
573.7534	-1.035	85462.862	3.5	4D (5D)4G	102887.120	3.5	4F(5D)0[3]	578.6406	-0.865	86710.837	1.5	4D (5D)4F
573.7699	-6.391	27620.412	2.5	D6S (3F)2F	45044.168	1.5	4P (5D)4D	578.7971	-2.015	85679.698	2.5	4D (5D)4G
573.7898	-0.333	86599.738	2.5	4D (5D)4G	104022.890	3.5	4F(5D)0[3]	578.8816	-3.115	78725.790	1.5	5S (5D)6D
573.8508	-3.444	105630.750	2.5	5D (5D)4G	88209.450	3.5	4SP(5P)6D	578.9023	-2.756	86599.738	2.5	4D (5D)4F
573.8790	-4.441	78577.280	4.5	D5S2(7S)2G	61156.835	3.5	4P (3H)4H	578.9895	-3.932	54902.315	1.5	D6S (3P)2P
573.9098	-1.022	85462.862	3.5	4D (5D)4G	102882.370	4.5	4F(5D)4[4]	579.0245	-4.708	105230.290	0.5	5D (5D)4D
574.2592	-3.185	73492.215	3.5	D5S2(7S)4F	90901.124	2.5	5P (5D)4F	579.0692	-1.388	86416.333	3.5	4D (5D)4F
574.2646	-4.179	86710.837	1.5	4D (5D)4F	69302.090	1.5	4SP(5S)4P	579.1297	-2.528	85679.698	2.5	4D (5D)4G
574.5049	-4.701	104873.230	3.5	5D (5D)4D	87471.765	4.5	4SP(5G)6F	579.1622	-4.601	73637.340	1.5	D5S2(7S)4F
574.6575	-0.351	85728.806	1.5	4D (5D)4S	103125.650	0.5	4F(5D)4[1]	579.1657	-1.550	86124.301	4.5	4D (5D)4F
574.6611	-1.151	104868.500	4.5	5D (5D)6G	87471.765	4.5	4SP(5G)6F	579.1987	-1.617	86416.333	3.5	4D (5D)4F
574.7837	-4.928	78725.790	1.5	5S (5D)6D	61332.764	1.5	4P (3P)4F	579.2231	-3.093	81639.260	2.5	D5S2(7S)2F
574.7884	-3.096	44929.550	2.5	D6S (1F)2F	62322.431	3.5	4P (3H)2G	579.2807	-1.449	86599.738	2.5	4D (5D)4F
574.8236	-3.357	85495.304	2.5	4D (5D)6S	102887.120	3.5	4F(5D)4[4]	579.3158	-5.710	25981.629	3.5	D6S (3G)4G
574.8286	-1.388	104863.430	5.5	5D (5D)4G	87471.765	4.5	4SP(5G)6F	579.3570	-2.609	104828.160	2.5	5D (5D)6D
574.8691	-4.804	79439.467	3.5	5S (5D)4D	62049.025	2.5	4SP(7S)6P	579.4726	-1.328	104593.270	5.5	5D (5D)6G
574.8701	-1.078	105288.530	1.5	5D (5D)6G	88959.380	2.5	4SP(5P)6D	579.4726	-1.328	104593.270	5.5	5D (5D)6G
574.8784	-2.562	105449.540	3.5	5D (5D)4G	87078.621	3.5	5P (5D)4F	579.5845	-2.319	86666.258	3.5	D6S (1G)2G
574.9333	-1.563	85462.862	3.5	4D (5D)4F	102851.360	4.5	4F(5D)4[5]	579.7293	-2.519	86416.333	3.5	4D (5D)4F
574.9434	-1.918	86599.738	2.5	4D (5D)4F	103987.930	2.5	4F(5D)1[3]	579.7884	-3.364	44915.046	3.5	D6S (1F)2F
574.9870	-2.954	73399.745	4.5	D5S2(7S)4F	90780.621	3.5	5P (5D)4F	579.7884	-3.364	44915.046	3.5	D6S (1F)2F
575.0592	-4.608	73399.930	2.5	D5S2(7S)4F	90780.621	3.5	5P (5D)4F	579.8826	-3.216	105449.540	3.5	5D (5D)4G
575.0883	-3.199	80346.016	0.5	5S (5D)4D	62962.205	1.5	4P (3P)4D	580.0029	-4.129	580.0029	-4.129	580.0029
575.1488	-0.700	85728.806	1.5	4D (5D)4S	103110.790	1.5	4F(5D)4[1]	580.0091	-4.129	104705.420	3.5	5D (5D)6D
575.4149	-3.954	79439.467	3.5	5S (5D)4D	62065.521	3.5	4P (3F)4F	580.2381	-4.912	108804.667	3.5	5S (5D)6G
575.5449	-0.397	86599.738	2.5	4D (5D)4F	103969.760	3.5	4F(5D)1[3]	580.2508	-2.743	105288.530	1.5	5D (5D)6G
575.6124	-4.255	54870.528	2.5	D6S (3F)2F	72238.513	2.5	4P (3D)4H	580.2768	-0.626	86124.301	4.5	4D (5D)4F
575.9143	-3.801	50157.452	4.5	D6S (3F)4F	67516.332	5.5	4P (3G)2H	580.3599	-2.509	104828.160	2.5	5D (5D)6D
575.9980	-3.522	79439.467	3.5	5S (5D)4D	62083.108	4.5	4P (3H)2G	580.4474	-1.022	85728.806	1.5	4D (5D)4S
576.0410	-2.412	85679.698	2.5	4D (5D)4G	103034.760	1.5	4F(5D)4[2]	580.4913	-3.891	44929.450	3.5	D6S (1F)2F
576.2456	-3.247	80177.975	1.5	5S (5D)4D	62829.075	1.5	4P (3P)4D	580.6826	-1.196	86124.301	4.5	4D (5D)4F
576.3887	-1.863	85679.698	2.5	4D (5D)4G	103024.290	2.5	4F(5D)4[2]	580.6826	-1.196	86124.301	4.5	4D (5D)4F
576.6884	-2.503	104873.230	3.5	5D (5D)4D	87537.652	3.5	4SP(5G)6F	580.7018	-2.976	80177.975	1.5	5S (5D)4D

VL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
580.7665	-3.132	81639.260	2.5	D582(75)2F	64425.408	2.5	4F(5D)2F	587.5097	-2.256	104588.710	1.5	5D(5D)6D
580.9835	-2.742	85679.698	2.5	4D(5D)4G	102887.120	3.5	4F(5D)4[4]	587.5411	-4.697	49506.934	1.5	D6S(3F)4F
581.0082	-4.786	60445.275	2.5	D582(75)4D	43238.586	2.5	4P(5D)6P	587.5864	-3.336	78843.992	0.5	5S(5D)6D
581.1629	-0.405	86124.301	4.5	4D(5D)4F	103326.410	4.5	4F(5D)3[4]	587.8562	-0.923	105063.740	3.5	5D(5D)6G
581.1785	-0.551	86124.301	4.5	4D(5D)4F	103325.950	5.5	4F(5D)3[5]	587.9297	-2.930	73393.745	4.5	D582(75)4G
581.1953	-6.050	21812.055	1.5	D6S(3F)4P	39013.206	1.5	4P(5D)6D	588.0053	-4.721	73395.930	2.5	D582(75)4F
581.3046	-3.322	50075.910	1.5	D6S(3F)4F	67273.826	1.5	4P(3F)2D	588.0139	-2.163	105211.140	4.5	5D(5D)4G
581.3164	-4.678	73395.930	2.5	D582(75)4F	90593.497	1.5	5P(5D)6F	588.0210	-4.382	73637.340	1.5	D582(75)4D
581.3677	-2.901	44929.550	2.5	D6S(1F)2F	62125.600	1.5	4P(3P)2D	588.1989	-2.783	105205.790	2.5	5D(5D)6G
581.3770	-4.276	57411.065	2.5	D582(75)4P	74606.841	2.5	4P(3D)2D	588.2623	-2.539	104630.430	1.5	5D(5D)6P
581.3825	-2.570	79885.493	2.5	5S(5D)4D	62689.880	2.5	4P(3P)4D	588.3221	-3.119	73393.745	4.5	D582(75)4F
581.6817	-4.747	100492.020	3.5	5S(3F)2F	83305.521	3.5	4P(1F)2D	588.4213	-1.469	86416.333	3.5	4D(5D)4F
581.8037	-6.641	26055.423	2.5	D6S(3G)4G	43238.586	2.5	4P(5D)6P	588.5015	0.345	86710.837	1.5	4D(5D)4F
582.3155	-3.229	44915.046	3.5	D6S(1F)2F	62083.108	4.5	4P(3H)2D	588.5411	-1.607	104588.710	1.5	5D(5D)6D
582.3255	-2.129	104705.420	3.5	5D(5D)6D	87537.652	3.5	4SP(5G)6F	588.7562	-3.126	80346.016	0.5	5S(5D)4D
582.4415	-5.998	27620.412	2.5	D6S(3F)2F	44784.761	2.5	4P(5D)4D	589.1328	-2.195	58631.531	4.5	D6S(1G)2G
582.4547	-2.477	81734.750	3.5	D582(75)2F	98998.770	3.5	4P(1G)2D	589.1329	-0.383	86416.333	3.5	4D(5D)4F
582.6111	-3.195	47674.721	1.5	D7(5D)2D	64834.073	1.5	4P(3P)2P	589.2723	-1.761	86710.837	1.5	4D(5D)4F
582.6508	-0.749	86710.837	1.5	4D(5D)4F	103869.020	1.5	4F(5D)1[2]	589.5339	-0.806	86710.837	1.5	4D(5D)4F
582.6699	-4.827	82853.658	5.5	4D(5D)6F	65696.038	4.5	4P(3G)4G	589.5929	-4.712	73637.340	1.5	D582(75)4F
582.7636	-2.174	104757.110	0.5	5D(5D)6D	87602.250	1.5	4SP(5G)6F	589.7100	-4.349	104588.710	1.5	5D(5D)6D
582.9126	-3.716	44915.046	3.5	D6S(1F)2F	62065.521	3.5	4P(3F)4F	589.8021	-0.660	86710.837	1.5	4D(5D)4F
582.9867	-2.983	80177.975	1.5	5S(5D)4D	97326.270	1.5	4SP(3P)2P	589.8590	-1.893	86416.333	3.5	4D(5D)4F
583.0294	-8.648	21711.917	3.5	D6S(3H)4H	38858.958	2.5	4P(5D)6D	589.8723	-8.877	21711.917	3.5	D6S(3H)4H
583.0341	-0.199	86710.837	1.5	4D(5D)4F	103857.740	2.5	4F(5D)1[2]	590.1394	-2.731	79885.493	2.5	5S(5D)4D
583.0441	-3.494	73492.215	3.5	D582(75)4F	90638.822	2.5	5P(5D)4D	590.1578	-1.442	104411.690	4.5	4F(5D)3[5]
583.0508	-1.567	105205.790	2.5	5D(5D)6G	88059.380	2.5	4SP(3P)6D	590.2825	0.431	86416.333	3.5	4D(5D)4F
583.2447	-3.074	54902.315	1.5	D6S(3P)2D	72043.026	1.5	4P(3D)4P	590.3409	-3.663	58666.258	3.5	D6S(1G)2G
583.4060	-3.727	44929.550	2.5	D6S(1F)2F	62065.521	3.5	4P(3F)4F	590.3510	-1.068	86710.837	1.5	4D(5D)4F
583.4940	-8.079	27620.412	2.5	D6S(3F)2D	44753.799	3.5	4P(5G)6F	590.6920	-4.337	50075.910	1.5	D6S(3F)4F
583.5076	-2.613	104705.420	3.5	5D(5D)6D	87572.431	2.5	4SP(5D)6F	590.7025	-1.960	86416.333	3.5	4F(5D)3[4]
583.5427	-6.476	27314.922	3.5	D6S(3F)2D	44446.878	3.5	4P(5D)4D	590.7234	-4.165	78843.992	0.5	5S(5D)6D
583.5492	-2.640	47674.721	1.5	D7(5D)2D	64806.487	0.5	4P(3P)2P	590.7380	-3.141	79885.493	2.5	5S(5D)4D
583.5739	-3.717	50142.786	2.5	D6S(3F)4F	67273.826	1.5	4P(3P)2D	590.9115	-2.445	105127.770	2.5	5D(5D)4D
583.7403	-3.174	103608.909	4.5	5S(3G)2G	86482.750	3.5	4P(1F)2D	590.9370	-6.676	27314.922	3.5	D6S(3F)2F
583.8989	-0.199	104593.270	5.5	5D(5D)6G	87471.765	4.5	4SP(5G)6F	590.9404	-3.479	79439.467	3.5	5S(5D)4D
583.9097	-1.863	104757.110	0.5	5D(5D)6D	87635.920	0.5	4SP(3P)6D	591.1995	-1.462	86416.333	3.5	4D(5D)4F
584.0514	-4.904	79439.467	3.5	5S(5D)4D	62322.431	3.5	4P(3H)2G	591.2311	-2.540	104380.940	3.5	5D(5D)6F
584.1714	-4.412	57493.321	1.5	D582(75)4P	74606.841	2.5	4P(3D)2D	591.3113	-4.590	73393.745	4.5	D582(75)4F
584.2290	-0.106	86599.738	2.5	4D(5D)4F	103711.570	3.5	4F(5D)2[4]	591.3543	-3.795	73492.215	3.5	D582(75)4F
584.6776	-3.266	86599.738	2.5	4D(5D)4F	103698.440	2.5	4F(5D)2[3]	591.3771	-2.685	80177.975	1.5	5S(5D)4D
584.9110	-3.825	73395.930	2.5	D582(75)4F	90487.810	2.5	5P(5D)6F	591.3878	-4.196	73395.930	2.5	D582(75)4F
584.9200	-4.817	78185.030	3.5	D582(75)2G	61093.413	2.5	4P(3P)2D	591.4538	-3.032	81734.750	4.5	5S(5D)6D
585.4192	-0.201	86599.738	2.5	4D(5D)4F	103676.780	3.5	4F(5D)2[3]	591.4963	-2.296	77861.625	4.5	5S(5D)6D
585.6365	-2.106	104411.690	4.5	5D(5D)6D	87340.983	5.5	4SP(5G)6F	591.6714	-4.954	81639.260	2.5	D582(75)2G
585.6967	-2.597	86599.738	2.5	4D(5D)4F	103668.690	1.5	4F(5D)2[1]	591.7408	-4.585	78185.030	3.5	D582(75)2G
585.7160	-2.415	105127.770	2.5	5D(5D)4D	88059.380	2.5	4SP(3P)6D	591.7512	-4.600	73492.215	3.5	D582(75)4F
585.8445	-3.826	78577.280	4.5	D582(75)2G	61512.634	4.5	4P(3H)4D	591.9441	-2.480	104426.460	2.5	5D(5D)6F
585.9218	-4.357	54902.315	1.5	D6S(3P)2P	71964.710	2.5	4P(3D)4P	592.2211	-2.804	80346.016	0.5	5S(5D)4D
585.9614	-0.669	86599.738	2.5	4D(5D)4F	103660.980	2.5	4F(5D)2[2]	592.2462	-8.207	21581.868	4.5	D6S(3H)4H
585.9873	-3.853	54904.222	3.5	D6S(3F)2F	71964.710	2.5	4P(5D)2[4]	592.3462	-2.259	104411.690	4.5	5D(5D)6D
586.4543	-6.545	21812.055	1.5	D6S(3P)4P	38858.958	2.5	4P(5D)6D	592.6371	-2.472	78843.992	0.5	5S(5D)6D
586.5032	-1.445	86599.738	2.5	4D(5D)4F	103645.220	1.5	4F(5D)2[2]	592.8321	-2.456	104828.160	2.5	5D(5D)6F
586.5066	-4.493	44929.550	2.5	D6S(1F)2F	61974.933	1.5	4SP(7S)6P	592.8887	-4.559	81734.750	3.5	D582(75)2F
586.6261	-3.821	78725.790	1.5	5S(5D)6D	95767.000	5.5	4SP(3P)4D	592.9179	-2.604	78185.030	3.5	D582(75)2G
587.0839	-6.661	21430.359	5.5	D6S(3H)4H	38458.981	4.5	4P(5D)6D	592.9910	-3.204	104757.110	0.5	5D(5D)6D
587.0986	-3.956	78185.030	3.5	D582(75)2G	61156.835	3.5	4P(3H)4H	593.0189	-1.680	105711.730	2.5	5D(5D)6S
587.1799	0.009	104366.820	6.5	5D(5D)6G	87340.983	5.5	4SP(5G)6F	593.0353	-3.438	50142.786	2.5	D6S(3F)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
593.0899	-1.822	105065.630	3.5	5D (5D)6G	88209.450	3.5	4SP(5P)6D	599.4706	-2.667	78725.790	1.5	5S (5D)6D	62049.025	2.5	4SP(7S)6P
593.1656	-1.372	104426.460	2.5	5D (5D)6F	87572.423	2.5	4SP(5G)6F	599.4768	-5.981	25981.629	3.5	D6S (3G)4G	42658.224	3.5	4P (5D)6P
593.2055	-5.052	25805.528	4.5	D6S (3G)4G	42658.224	3.5	4SP(5G)6F	599.5844	-3.664	73993.745	4.5	D5S2(7S)4F	90067.347	4.5	5P (5D)6F
593.2651	-4.657	78577.280	4.5	D5S2(7S)2G	61726.077	3.5	4P (3P)4D	599.8658	-1.931	104630.430	1.5	5D (5D)6P	87964.650	1.5	4SP(5P)6D
593.2909	-4.634	73637.340	1.5	5P (5D)6F	90487.810	2.5	5P (5D)6F	599.9378	-2.095	104873.230	3.5	4SP(5P)6D	88209.450	3.5	4SP(5P)6D
593.5439	-1.360	104380.940	3.5	5D (5D)6F	87537.652	3.5	4SP(5G)6F	600.1081	-0.917	104868.500	4.5	5D (5D)6G	88209.450	3.5	4SP(5P)6D
593.6277	-4.808	82853.658	5.5	4P (3G)4F	66012.770	4.5	4P (3G)4F	600.1197	-4.514	81734.750	3.5	D5S2(7S)2F	98391.330	3.5	4SP(5D)4D
593.8354	-4.989	105449.540	3.5	5D (5D)4G	88614.520	4.5	4SP(5P)6D	600.2900	-1.409	86710.837	1.5	4D (5D)4F	103364.840	2.5	4F(5D)3[3]
594.1372	-7.221	27620.412	2.5	D6S (3P)2F	44446.878	3.5	4P (5D)4D	600.3541	-8.090	25787.598	1.5	D6S (3P)2P	42439.822	0.5	4P (5D)6F
594.4303	-1.049	86599.738	2.5	4D (5D)4F	103417.910	1.5	4F(5D)3[1]	600.4691	-4.115	73993.745	4.5	D5S2(7S)4F	90042.779	4.5	4P (3F)4G
594.4379	-2.499	73993.745	4.5	D5S2(7S)4F	90211.700	5.5	4P (3F)4G	601.0498	-3.149	104873.230	3.5	5D (5D)6D	88209.450	3.5	4SP(5P)6D
594.4399	-0.891	86124.301	4.5	4D (5D)4F	102942.200	3.5	4F(5D)4[3]	601.12856	-1.799	85728.806	1.5	4D (5D)4S	92171.716	4.5	4P (3F)2G
594.5831	-2.425	104873.230	3.5	5D (5D)4D	88059.380	2.5	4SP(5P)6D	601.3347	-3.995	81734.750	3.5	D5S2(7S)2F	65109.679	3.5	4P (3F)2G
594.6236	-3.828	50187.813	3.5	D6S (3F)4F	67000.517	2.5	4P (3F)2D	601.3712	-2.804	104588.710	1.5	5D (5D)6D	87964.650	1.5	4SP(5P)6D
594.6828	-4.320	44915.046	3.5	D6S (1F)2F	61726.077	3.5	4P (3P)4D	601.3889	-4.566	100492.020	3.5	5S (3F)2F	83868.450	2.5	4P (1F)2D
594.7720	-2.261	104380.940	3.5	5D (5D)6F	87572.431	2.5	4SP(5G)6F	601.4879	-3.833	100492.020	3.5	5S (3F)2F	83871.184	4.5	4P (1F)2G
594.7755	-3.483	73492.215	3.5	D5S2(7S)4F	90300.625	3.5	5P (5D)6F	601.5648	-1.773	104828.160	2.5	5D (5D)6D	88209.450	3.5	4SP(5P)6D
594.8427	-0.176	86599.738	2.5	4D (5D)4F	103406.250	2.5	4F(5D)3[2]	601.5729	-2.863	20177.975	1.5	5S (5D)4D	63559.488	0.5	4P (3F)4D
594.8896	-4.162	81639.260	2.5	D5S2(7S)2F	64834.073	1.5	4P (3P)2P	601.7461	-7.236	85728.806	1.5	D6S (3P)2P	42401.302	1.5	4P (5D)6F
595.1963	-4.845	44929.550	2.5	D6S (1F)2F	61726.077	3.5	4P (3P)4D	601.7891	-2.635	79885.493	2.5	5S (5D)4D	63272.976	2.5	4P (3F)4D
595.2510	-2.324	48039.090	2.5	D7 (5D)2D	64834.073	1.5	4P (3P)4D	601.8945	-1.167	103950.590	4.5	5D (5D)6F	87340.983	5.5	4SP(5G)6F
595.3404	-2.400	104757.110	0.5	5D (5D)6D	87964.650	1.5	4SP(5P)6D	601.9543	-1.012	86416.333	3.5	5D (5D)4F	103024.290	2.5	4F(5D)4[2]
595.3726	-3.225	86599.738	2.5	4D (5D)4F	103391.290	1.5	4F(5D)3[2]	602.1212	-7.103	22409.852	0.5	D6S (3P)4P	39013.206	1.5	4P (5D)6D
595.5096	-4.622	50212.826	2.5	D6S (3P)4P	67000.517	2.5	4P (3F)4D	602.1413	-7.506	26055.423	2.5	D6S (3G)4G	42658.224	3.5	4P (5D)6P
595.5508	-2.868	80346.016	0.5	5S (5D)4D	63559.488	0.5	4P (3F)4D	602.2360	-3.914	78725.790	1.5	5S (5D)6D	62125.600	1.5	4P (3P)2D
595.8552	-3.518	79439.467	3.5	5S (5D)4D	103385.730	3.5	4F(5D)3[3]	602.3304	-4.191	44915.046	3.5	D6S (1F)2F	61512.634	4.5	4P (3H)4I
596.1705	0.686	105630.750	2.5	5D (5D)4F	88853.333	3.5	5P (5D)6D	602.3655	-2.739	105211.140	4.5	5D (5D)4G	88614.520	4.5	4SP(5P)6D
596.1811	-1.522	104828.160	2.5	5D (5D)6D	88059.380	2.5	4SP(5P)6D	602.3878	-3.040	105449.540	3.5	5D (5D)4G	88853.533	3.5	5P (5D)6D
596.3319	-1.653	86599.738	2.5	4D (5D)4F	96217.420	3.5	4SP(5P)4D	602.4019	-0.522	103936.600	5.5	5D (5D)6F	87340.983	5.5	4SP(5G)6F
596.3932	-0.911	86124.301	4.5	4D (5D)4F	102887.120	3.5	4F(5D)4[4]	602.5233	-1.830	105711.730	2.5	5D (5D)6S	89119.457	2.5	5P (5D)6D
596.5622	-2.333	78725.790	1.5	5S (5D)6D	61974.933	1.5	4SP(7S)6P	602.8541	-0.696	105711.730	2.5	5D (5D)6S	89128.561	3.5	4SP(5P)6P
596.8191	-4.032	47674.721	1.5	D7 (5D)2D	64425.408	2.5	4P (3F)2F	602.8741	-0.925	104120.270	2.5	5D (5D)6P	87537.652	3.5	4SP(5G)6F
596.8643	-3.424	79439.467	3.5	5S (5D)4D	62628.660	0.5	4P (3P)2F	603.0669	-4.886	85679.698	2.5	4D (5D)4G	69102.380	2.5	4SP(5S)4P
596.9542	-9.324	21711.917	3.5	D6S (3H)4H	38458.981	4.5	4P (5D)6D	603.1464	-4.829	73492.215	3.5	D5S2(7S)4F	90067.347	4.5	5P (5D)6F
597.1446	-4.399	49506.934	1.5	D6S (3P)4P	66248.660	0.5	4P (3P)2S	603.2950	-2.592	104630.430	1.5	5D (5D)6P	88059.380	2.5	4SP(5P)6D
597.1740	-1.021	86599.738	2.5	4D (5D)4F	103340.640	3.5	4F(5D)3[4]	603.8353	-3.812	79439.467	3.5	5S (5D)4D	95995.690	2.5	4SP(5P)4D
597.4806	-2.255	104630.430	1.5	5D (5D)6F	87898.120	0.5	4SP(5G)6F	604.0450	-2.513	78525.407	2.5	5S (5D)6D	61974.933	1.5	4SP(7S)6P
597.6682	-0.330	86124.301	4.5	4D (5D)4F	102851.360	4.5	4F(5D)4[5]	604.0418	-2.655	73492.215	3.5	D5S2(7S)4F	90042.779	4.5	4P (3F)4G
597.6902	-1.790	86710.837	1.5	4D (5D)4F	103437.280	0.5	4F(5D)3[1]	604.1412	-1.241	104120.270	2.5	5D (5D)6P	87572.431	2.5	4SP(5G)6F
597.9100	-4.898	85728.806	1.5	4D (5D)4S	102449.100	2.5	4SP(3D)2D	604.1637	-7.122	25787.598	1.5	D6S (3P)2P	42334.822	2.5	4P (5D)6F
597.9780	-4.180	78843.992	0.5	5S (5D)6D	62125.600	1.5	4P (3P)2D	604.4545	-5.430	25428.784	5.5	D6S (3G)4G	41968.046	5.5	4P (5D)6F
598.1757	-2.825	80177.975	1.5	5S (5D)4D	63465.100	1.5	4P (3F)4D	604.5465	-2.608	50075.910	1.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F
598.3771	-4.818	86710.837	1.5	4D (5D)4F	103417.910	1.5	4F(5D)3[0]	604.5816	-1.044	86416.333	3.5	4D (5D)4F	102952.120	2.5	4F(5D)4[3]
598.3831	-0.649	86710.837	1.5	4D (5D)4F	103417.910	1.5	4F(5D)3[1]	604.7732	-2.741	108804.667	3.5	5S (3D)4D	92274.120	2.5	4P (3F)4P
598.3851	-2.369	86124.301	4.5	4D (5D)4F	102831.320	5.5	4F(5D)4[5]	604.7775	-3.036	73393.745	4.5	D5S2(7S)4F	89924.175	5.5	5P (5D)6F
598.5277	-4.372	84870.863	2.5	4D (5D)4D	101573.900	1.5	4SP(5D)4P	604.8085	-3.251	81639.260	2.5	D5S2(7S)2F	65109.679	3.5	4P (3F)2G
598.6561	-8.080	22409.852	0.5	D6S (3P)4P	39109.307	0.5	4P (5D)6D	604.8177	-1.570	104588.710	1.5	5D (5D)6D	88059.380	2.5	4SP(5P)6D
598.8011	-0.439	86710.837	1.5	4D (5D)4F	103406.250	2.5	4F(5D)3[2]	604.8282	-0.931	104000.810	3.5	5D (5D)6P	87471.765	4.5	4SP(5G)6F
598.9741	-2.055	104588.710	1.5	5D (5D)6D	87898.120	0.5	4SP(5G)6F	604.9445	-0.417	86416.333	3.5	4D (5D)4F	102942.200	3.5	4F(5D)4[3]
599.0595	-7.957	26932.748	0.5	D6S (3P)2P	43620.957	1.5	4P (5D)6P	604.9567	-1.600	78237.685	3.5	5S (5D)6D	94763.219	3.5	4SP(5D)6P
599.0711	-4.057	108804.667	3.5	5S (3D)4D	92116.780	4.5	4SP(5G)4H	605.0785	-3.404	108804.667	3.5	5S (3D)4D	82282.460	3.5	4SP(5G)4F
599.1376	-3.781	25428.784	5.5	D6S (3G)4G	42114.818	4.5	4P (5D)6F	605.2035	-4.903	99824.045	2.5	5S (3F)4F	93305.251	3.5	4P (1F)2G
599.3381	-1.560	86710.837	1.5	4D (5D)4F	103391.290	1.5	4F(5D)3[2]	605.2319	-3.345	104120.270	2.5	5D (5D)6P	87602.250	1.5	4SP(5G)6F
599.3810	-4.533	103608.909	4.5	5S (3G)2G	86929.649	3.5	4P (3P)4D	605.3868	-4.049	78525.407	2.5	5S (5D)6D	95039.200	1.5	4P (3P)2P
								605.4613	-3.527	78577.280	4.5	D5S2(7S)2G	62065.521	3.5	4P (3F)4F
								605.4669	-4.297	78237.685	3.5	5S (5D)6D	61726.077	3.5	4P (3F)4D
								605.4873	-1.527	86599.738	2.5	4D (5D)4F	103110.790	1.5	4F(5D)4[1]

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
605.7317	-4.253	108804.667	3.5	5S (3D)4D	92300.277	4.0	4P (3D)6F	611.8201	-4.729	105063.550	5.5	4D (3F)4G
605.8062	-2.605	78577.280	4.5	D5S2(7S)2G	95079.640	3.5	4SP(5F)2F	612.0321	-3.199	50187.813	3.5	D6S (3F)4F
605.8125	-2.255	105630.750	2.5	5D (5D)4G	89128.561	3.5	4SP(5P)6F	612.1282	-2.850	79885.493	2.5	5S (5D)4D
606.0049	-1.864	104705.420	3.5	5D (5D)6D	88209.450	3.5	4SP(5P)6D	612.1473	-3.665	73395.930	2.5	D5S2(7S)4F
606.0470	-2.686	73395.930	2.5	D5S2(7S)4F	89890.373	3.5	4P (3F)4G	612.1975	-2.666	105449.540	3.5	5D (5D)4G
606.0975	-2.368	79439.467	3.5	5S (5D)4D	62945.038	3.5	4P (3F)4D	612.2658	-3.777	77861.625	4.5	5S (5D)6D
606.1069	-2.728	78577.280	4.5	D5S2(7S)2G	62083.108	4.5	4P (3H)2C	612.4283	-1.990	86710.837	1.5	4D (5D)4F
606.3434	-3.024	105211.140	4.5	5D (5D)4G	88723.400	4.5	5P (5D)6F	612.5170	-1.508	104380.940	3.5	5D (5D)6F
606.6714	-0.619	103950.590	4.5	5D (5D)6F	87471.765	4.5	4SP(5G)6D	612.5388	-2.929	105449.540	3.5	5D (5D)4G
606.7614	-2.192	78525.407	2.5	5S (5D)6D	62049.025	2.5	4SP(7S)6P	612.8214	-2.407	86710.837	1.5	4D (5D)4F
606.8205	-3.126	108804.667	3.5	5S (5D)4D	92329.890	2.5	4SP(5G)4F	612.9703	-4.895	25805.328	4.5	D6S (3G)4G
606.9675	-0.459	86416.333	3.5	4F(5D)4I	102887.120	3.5	4F(5D)4I	612.9707	-4.514	50212.826	2.5	D6S (3P)4F
607.0013	-3.344	50142.786	2.5	D6S (3F)4F	66612.656	1.5	4P (3G)4F	613.0986	-3.632	50157.452	4.5	D6S (3F)4F
607.1426	-0.228	86416.333	3.5	4D (5D)4F	102882.370	4.5	4F(5D)4I	613.1219	-7.473	26332.766	4.5	D6S (3H)2H
607.1869	-1.508	103936.600	5.5	5D (5D)6F	87471.765	4.5	4SP(5G)6F	613.2585	-2.652	86728.806	1.5	4D (5D)4S
607.2488	-0.868	104000.810	3.5	5D (5D)6F	87537.652	3.5	4SP(5G)6F	613.3439	-2.924	105630.750	2.5	5D (5D)4G
607.2555	-4.279	78237.685	3.5	5S (5D)6D	94700.660	2.5	4P (3F)2D	613.8023	-1.378	86599.738	2.5	4D (5D)4F
607.2985	-1.798	104426.460	2.5	5D (5D)6F	87964.650	1.5	4SP(5P)6D	613.8211	-3.498	77861.625	4.5	5S (5D)6D
607.6935	-2.791	105065.430	3.5	5D (5D)6G	88614.520	4.5	4SP(5P)6D	614.1033	-5.352	26055.423	2.5	D6S (3G)4G
607.8304	-1.655	78237.685	3.5	5S (5D)6D	94685.090	2.5	4SP(5D)6P	614.2981	-1.915	105127.770	2.5	5D (5D)4D
607.8677	-4.659	50075.910	1.5	D6S (3F)4F	66522.300	2.5	4P (3G)4F	614.3026	-4.366	77230.900	4.5	D5S2(7S)2H
608.2882	-0.691	86416.333	3.5	4D (5D)4F	102851.360	4.5	4F(5D)4I	614.5346	-3.096	99573.225	4.5	5S (3F)4F
608.2883	-1.547	86599.738	2.5	4D (5D)4F	103034.760	1.5	4F(5D)4I	614.5611	-0.454	105711.730	2.5	5D (5D)6S
608.4111	-4.007	25805.328	4.5	D6S (3G)4G	42237.033	3.5	4P (5D)6F	614.7741	-2.891	31364.440	1.5	D6S (3H)4D
608.5343	-4.003	104000.810	3.5	5D (5D)6F	87572.431	2.5	4SP(5G)6F	614.8848	-1.533	104873.230	3.5	5D (5D)4D
608.5959	-2.095	85728.806	1.5	4D (5D)4S	69302.090	1.5	4SP(5S)4P	614.9258	-2.893	31368.450	0.5	D6S (3G)4D
608.6761	-1.003	86599.738	2.5	4D (5D)4F	103024.290	2.5	4F(5D)4I	614.9258	-2.893	31368.450	0.5	D6S (3G)4D
608.7088	-4.437	77230.900	4.5	D5S2(7S)2H	60807.230	4.5	4P (3H)4G	615.0098	-4.998	25981.629	3.5	D6S (3G)4G
608.8306	-2.807	79885.493	2.5	5S (5D)4D	63465.109	1.5	4P (3F)4D	615.0308	-3.555	78577.280	4.5	D5S2(7S)2G
608.8756	-4.065	78577.280	4.5	D5S2(7S)2G	62158.110	4.5	4P (3F)4F	615.0637	-2.555	104868.500	4.5	5D (5D)6G
609.0372	-2.413	86710.837	1.5	4D (5D)4F	103125.650	0.5	4F(5D)4I	615.0751	-4.149	77230.900	4.5	D5S2(7S)2H
609.1068	-2.112	103950.590	4.5	5D (5D)6F	87537.652	3.5	4SP(5G)6F	615.2119	-4.582	54273.641	4.5	D5S2(7S)4G
609.1158	-4.053	47674.721	1.5	D7 (5D)2D	64087.418	2.5	4P (3F)4G	615.2556	-1.623	104863.430	5.5	5D (5D)4G
609.1907	-4.623	103751.660	5.5	4D (3H)4H	87340.983	5.5	4SP(5G)6F	615.3183	-3.875	48039.090	2.5	D7 (5D)2D
609.4679	-4.160	44929.550	2.5	D6S (1F)2F	61332.764	1.5	4P (3P)4D	615.5254	-4.646	44915.046	3.5	D6S (1F)2F
609.5429	-4.278	50187.813	3.5	D6S (3F)4F	66589.008	4.5	4P (3G)4H	615.5446	-2.624	86710.837	1.5	4D (5D)4F
609.5891	-1.914	86710.837	1.5	4D (5D)4F	103110.790	1.5	4F(5D)4I	615.6761	-1.683	78525.407	2.5	5S (5D)6D
609.5945	-4.263	78525.407	2.5	5S (5D)6D	62125.600	1.5	4P (3P)2D	615.8019	-3.296	50142.786	2.5	D6S (3F)4F
609.6437	-4.909	108648.695	6.5	5S (11)2I	92250.210	6.5	4SP(5G)4H	616.0755	-3.780	44929.550	2.5	D6S (1F)2F
609.6558	-4.064	73492.215	3.5	D5S2(7S)4F	89890.373	3.5	4P (3F)4G	616.3587	-3.331	50157.452	4.5	D6S (3F)4F
609.8106	-4.437	79885.493	2.5	5S (5D)4D	96279.490	2.5	4SP(3G)2F	616.4659	-0.887	104426.460	2.5	5D (5D)6F
609.8505	-4.372	85495.304	2.5	4D (5D)6S	69102.380	2.5	4SP(5S)4P	616.5893	-1.828	78525.407	2.5	5S (5D)6D
610.3117	-2.054	105711.730	2.5	5D (5D)6S	89331.195	1.5	5P (5D)6D	616.6527	-2.580	105065.630	3.5	5D (5D)6G
610.3496	-2.364	50142.786	2.5	D6S (3F)4F	66522.300	2.5	4P (3G)4F	617.0005	-8.164	30764.485	3.5	D6S (3G)2G
610.4179	-2.045	108804.667	3.5	5S (3D)4D	92426.980	4.5	4SP(5G)4F	617.0279	-1.741	104411.690	4.5	5D (5D)6D
610.4208	-4.8/3	85679.698	2.5	4D (5D)4G	69302.090	1.5	4SP(5S)4P	617.0384	-3.685	108804.667	3.5	5S (3D)4D
610.5611	-4.652	78525.407	2.5	5S (5D)6D	62151.561	2.5	4P (3F)4F	617.2600	-0.608	77861.625	4.5	5S (5D)6D
610.8135	-2.443	104426.460	2.5	5D (5D)6F	88059.380	2.5	4SP(5P)6D	617.2958	-4.146	78843.992	0.5	5S (5D)6D
611.0598	-4.105	85462.862	3.5	4D (5D)4G	69102.380	2.5	4SP(5S)4P	617.3718	-4.401	85495.304	2.5	4D (5D)6S
611.1672	-2.240	105211.140	4.5	5D (5D)4G	88853.533	3.5	5P (5D)6D	617.4026	-4.359	80187.813	3.5	4D (3D)4F
611.3098	-3.041	78525.407	2.5	5S (5D)6D	62171.615	3.5	4SP(7S)6P	617.5146	-2.189	50187.813	3.5	D6S (3F)4F
611.3103	-4.726	85048.602	1.5	4D (5D)4D	101402.380	0.5	4SP(5D)4P	617.5455	-2.054	78237.685	3.5	5S (5D)6D
611.3322	-4.398	25981.629	3.5	D6S (3G)4G	42334.822	2.5	4P (5D)6F	617.6358	-1.864	105630.750	2.5	5D (5D)4G
611.3625	-1.975	86599.738	2.5	4D (5D)4G	102952.120	2.5	4F(5D)4I	617.8145	-6.418	26055.423	2.5	D6S (3G)4G
611.4938	-4.105	85462.862	3.5	4D (5D)4G	69102.380	2.5	4SP(5S)4P	617.9344	-4.331	81734.750	3.5	D5S2(7S)2F
611.6722	-2.240	105211.140	4.5	5D (5D)4G	42401.302	1.5	4P (5D)6F	617.9384	-2.726	44915.046	3.5	D6S (1F)2F
611.7021	-4.898	77230.900	4.5	D5S2(7S)2H	60887.598	5.5	4P (3H)4H	618.0573	-4.515	78525.407	2.5	5S (5D)6D
611.7336	-1.264	86599.738	2.5	4D (5D)4F	102942.200	3.5	4F(5D)4I	618.2011	-1.155	104380.940	3.5	5D (5D)6F
611.7423	-4.557	105065.630	3.5	5D (5D)6G	88723.400	4.5	5P (5D)6D					

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
618.3923	-3.008	79439.467	3.5	5S (5D)4D	63272.976	2.5	4P (3F)4D	624.7557	-2.501	31387.948	2.5	D6S (3D)4D	47389.779	1.5	4P (5D)4P
618.4701	-4.332	50212.826	2.5	D6S (3P)4P	66377.283	3.5	4P (3G)4F	624.7570	-4.062	48039.090	2.5	D7 (3D)2D	64040.886	3.5	4P (3F)4G
618.4929	-4.374	44929.550	2.5	D6S (1F)2F	61093.413	2.5	4P (3P)2D	624.8059	-9.775	27620.412	2.5	D6S (3F)2F	43620.957	1.5	4P (5D)6P
618.5367	-6.141	25805.328	4.5	D6S (3G)4F	41968.046	5.5	4P (5D)6F	624.8581	-1.596	105127.770	2.5	5D (5D)4D	89128.561	3.5	4SP(5P)6P
618.6528	-2.011	78525.407	2.5	5S (5D)6D	94685.090	2.5	4SP(5D)6F	624.8898	-3.191	60445.275	2.5	D5S2(7S)4D	44446.878	3.5	4P (5D)4D
618.8084	-2.086	104120.270	2.5	5D (5D)6P	87964.650	1.5	4SP(5P)6D	625.2915	-3.662	88157.116	1.5	4D (5D)4F	72168.998	1.5	4P (3D)4F
618.8341	-2.066	78725.790	1.5	5S (5D)6D	94880.740	0.5	4SP(5P)4F	625.4475	-1.642	87985.628	2.5	4D (5D)4F	103969.760	3.5	4P(5D)1[1]
619.0303	-1.699	104873.230	3.5	5D (5D)4D	88723.400	4.5	5P (5D)6D	625.5301	-2.265	104705.420	3.5	5D (5D)6D	88723.400	4.5	5P (5D)6D
619.1770	-3.708	88189.030	0.5	4D (5D)4P	72043.026	1.5	4P (3D)4P	625.5346	-6.103	23031.300	1.5	D6S (3F)4F	39013.206	1.5	4P (5D)6D
619.2116	-2.278	104868.500	4.5	5D (5D)6G	88723.400	4.5	5P (5D)6G	625.5581	-1.097	104593.270	5.5	5D (5D)6G	88614.520	4.5	4SP(5P)6D
619.4062	-2.087	104863.430	5.5	5D (5D)4G	88723.400	4.5	5P (5D)6D	625.7638	-3.087	88189.030	0.5	4D (5D)4F	72212.978	0.5	4P (3D)4F
619.6688	-6.120	25981.629	3.5	D6S (3G)4G	42114.818	4.5	4P (5D)6F	625.8101	-4.097	78725.790	1.5	5S (5D)6D	94700.660	2.5	4P (3F)2D
619.9181	-3.693	44915.046	3.5	D6S (1F)2F	61041.748	2.5	4P (3H)4G	625.8196	-1.369	104828.160	2.5	5D (5D)6D	88853.533	3.5	5P (5D)6D
619.9515	-1.570	77861.625	4.5	5S (5D)6D	93987.457	3.5	4SP(5P)6D	625.8420	-2.727	78237.685	3.5	5S (5D)6D	84211.739	2.5	4SP(5P)4P
620.1947	-4.184	78185.030	3.5	D5S2(7S)2G	62065.521	3.5	4P (3F)4F	625.9007	-3.862	79885.493	2.5	5S (5D)4D	93588.050	1.5	4SP(5P)4D
620.3066	-4.708	81734.750	3.5	D5S2(7S)2F	97851.350	4.5	4P (1G)2H	626.4206	-1.551	78725.790	1.5	5S (5D)6D	94685.090	2.5	4SP(5D)6P
620.4033	-3.038	88157.116	1.5	4D (5D)4P	72043.026	1.5	4P (3D)4P	626.4978	-3.637	105288.530	1.5	5D (5D)6G	89331.190	1.5	5P (5D)6D
620.4761	-4.110	44929.550	2.5	D6S (1F)2F	61041.748	2.5	4P (3H)4G	626.9344	-2.875	85048.602	1.5	4D (5D)4F	9102.385	2.5	4SP(5S)4P
620.5532	-4.598	79885.493	2.5	5S (5D)4D	95995.690	2.5	4SP(5P)4D	626.9363	-1.987	105065.630	3.5	5D (5D)6G	89119.457	2.5	5P (5D)6D
620.5880	-3.819	108804.667	3.5	5S (3D)4D	92695.374	2.5	4P (3H)2G	626.9967	-4.965	26170.181	5.5	D6S (3H)2H	42114.818	4.5	4P (5D)6F
620.8721	-4.573	78185.030	3.5	D5S2(7S)2G	62083.108	4.5	4P (3H)2G	627.0163	-3.224	88157.116	1.5	4D (5D)4F	72212.978	0.5	4P (3D)4F
620.8795	-4.948	86416.333	3.5	4D (5D)4F	70314.604	4.5	4P (3G)2G	627.0767	-2.935	87985.628	2.5	4D (5D)4F	72043.026	1.5	4P (3D)4F
621.2974	-1.922	104705.420	3.5	5D (5D)6D	88614.520	4.5	4SP(5P)6D	627.1228	-1.689	104000.810	3.5	5D (5D)6P	88059.480	2.5	4SP(5P)6D
621.3106	-3.947	80177.975	1.5	5S (5D)6G	64087.418	2.5	4P (3F)4G	627.1562	-3.874	58666.258	3.5	D6S (1G)2G	74606.841	2.5	4P (3D)2D
621.4738	-4.177	105205.790	2.5	5D (5D)6G	89119.457	2.5	5P (5D)6D	627.2294	-2.325	105065.630	3.5	5D (5D)6G	89128.561	3.5	4SP(5P)6F
621.4948	-0.375	105711.730	2.5	5D (5D)6S	89625.940	1.5	4SP(5P)6P	627.3569	-3.940	50142.922	3.5	D6S (3F)4F	66078.269	2.5	4P (3G)4G
621.6188	-2.397	105211.140	4.5	5D (5D)4G	89128.561	3.5	4SP(5P)6P	627.9828	-9.722	27934.958	2.5	D6S (3F)2F	43238.586	2.5	4P (5D)6F
621.7956	-6.391	23031.300	1.5	D6S (3F)4F	39109.307	0.5	4P (5D)6D	628.0221	-3.906	88157.116	1.5	4D (5D)4F	72238.513	2.5	4P (3D)4F
621.8257	-3.372	105205.790	2.5	5D (5D)6G	89128.561	3.5	4SP(5P)6P	628.1629	-4.687	78577.280	4.5	D5S2(7S)2G	62662.244	5.5	4P (3H)2I
621.9481	-3.641	77230.900	4.5	D5S2(7S)2H	61156.835	3.5	4P (3H)4H	628.3293	-1.369	104120.270	2.5	5D (5D)6P	88209.450	3.5	4SP(5P)6D
621.9565	-5.669	22939.358	2.5	D6S (3F)4F	39013.206	1.5	4P (3H)4H	628.5408	-4.285	108804.667	3.5	5S (3D)4D	92899.200	2.5	4P (3F)4D
622.2576	-2.276	78237.685	3.5	5S (5D)6D	62171.615	3.5	4SP(7S)6P	628.7927	-2.981	105230.290	0.5	5D (5D)4D	89331.195	1.5	5P (5D)6D
622.4583	-2.125	104120.270	2.5	5D (5D)6P	88059.380	2.5	4SP(5P)6D	628.7965	-3.682	77230.900	4.5	D5S2(7S)2H	93129.900	3.5	4P (3F)4D
622.4648	-0.591	87985.628	2.5	4D (5D)4P	104046.350	2.5	4F(5D)0[1]	628.8735	-0.753	87985.628	2.5	4D (5D)4F	103882.680	3.5	4F(5D)1[1]
622.8200	-4.009	107219.500	4.5	4P2(7P)8P	91167.937	3.5	5P (5D)6P	628.9477	-1.942	78843.992	0.5	5S (5D)6D	94739.170	1.5	4SP(5P)4P
622.9349	-5.217	22810.357	3.5	D6S (3F)4F	38858.958	2.5	4P (5D)6D	629.0662	-3.817	44915.046	3.5	D6S (1F)2F	60807.230	4.5	4P (3H)4G
622.9455	-4.628	48039.090	2.5	D7 (5D)2D	64087.418	2.5	4P (3F)4G	629.1830	0.327	88157.116	1.5	4D (5D)4F	104046.350	2.5	4F(5D)0[1]
623.2016	-4.861	44915.046	3.5	D6S (1F)2F	60956.781	3.5	4P (3H)4G	629.3599	-4.914	47674.721	1.5	D7 (5D)2D	63559.488	0.5	4P (3F)4D
623.3190	-4.375	81734.750	3.5	D5S2(7S)2F	65696.038	4.5	4P (3G)4F	629.3797	-5.693	26352.766	4.5	D6S (3H)2H	42237.033	3.5	4P (5D)6F
623.3534	-3.187	60270.339	3.5	D5S2(7S)4D	44232.512	4.5	4P (5D)4F	629.4144	-1.159	87985.628	2.5	4D (5D)4F	103869.020	1.5	4F(5D)1[1]
623.3754	-0.756	87985.628	2.5	4D (5D)4P	104022.890	3.5	4F(5D)0[1]	629.4292	-2.174	105205.790	2.5	5D (5D)6G	89331.195	1.5	5P (5D)6D
623.3954	-2.560	78843.992	0.5	5S (5D)6D	94880.740	0.5	4SP(5P)4P	629.8617	-1.488	87985.628	2.5	4D (5D)4F	103857.740	2.5	4F(5D)1[1]
623.5229	-4.131	78185.030	3.5	D5S2(7S)2G	62151.561	2.5	4P (3F)4F	629.9170	-3.014	85172.800	0.5	4D (5D)4D	69302.090	1.5	4SP(5S)4P
623.7655	-3.912	44929.550	2.5	D6S (1F)2F	60956.781	3.5	4P (3H)4G	629.9507	-1.831	104593.270	5.5	5D (5D)6G	88723.400	4.5	5P (5D)6D
623.7803	-2.687	99332.102	4.5	5S (3H)2H	83305.251	3.5	4P (1F)2G	630.2394	-3.093	78185.030	3.5	D5S2(7S)2G	89727.342	2.5	4P (3F)4G
623.8392	-2.799	31364.440	1.5	D6S (3D)4D	47389.779	1.5	4P (5D)4F	630.2601	-2.213	105389.420	3.5	D5S2(7S)2G	89727.342	2.5	4P (3F)4G
623.9366	-4.940	22637.205	4.5	D6S (3F)4F	38660.043	3.5	4P (5D)6D	630.5296	-2.214	50157.452	4.5	D6S (3F)4F	66012.750	4.5	4P (3G)4G
623.9953	-3.607	31368.450	0.5	D6S (3D)4D	47389.779	1.5	4P (5D)4P	630.6653	-1.263	104705.420	3.5	5D (5D)6D	88853.533	3.5	5P (5D)6D
624.0113	-2.650	87985.628	2.5	4D (5D)4P	71964.710	2.5	4P (3D)4P	630.7529	-5.532	22810.357	3.5	D6S (3F)4F	38660.043	3.5	4P (5D)6D
624.0589	-1.552	104873.230	3.5	5D (5D)4D	88853.533	3.5	5P (5D)6D	630.9357	-4.671	85728.806	1.5	4D (5D)4S	101573.900	1.5	4SP(5D)4P
624.2432	-3.017	104868.500	4.5	5D (5D)6G	88853.533	3.5	5P (5D)6D	630.9551	-3.590	79885.493	2.5	5S (5D)4D	64040.886	3.5	4P (3F)4G
624.3051	-3.728	78725.790	1.5	5S (5D)6D	94739.170	1.5	4SP(5P)4P	631.3158	-4.304	78237.685	3.5	5S (5D)6D	94073.240	3.5	4SP(5G)4G
624.5027	-1.293	105127.770	2.5	5D (5D)4D	89119.457	2.5	5P (5D)4D	631.3169	-4.472	78525.407	2.5	5S (5D)6D	62689.880	2.5	4P (3P)4D
624.6288	-3.585	105449.540	3.5	5D (5D)4G	89444.458	2.5	4SP(5P)6P	631.5048	-0.838	88157.116	1.5	4D (5D)4F	103987.930	2.5	4F(5D)1[1]
624.6394	-1.911	105630.750	2.5	5D (5D)4G	89625.940	1.5	4SP(5P)6P	631.6067	-6.764	23031.300	1.5	D6S (3F)4F	38858.958	2.5	4P (5D)6D
624.7351	-2.235	50075.910	1.5	D6S (3F)4F	66078.269	2.5	4P (3G)4G	631.7394	-2.384	50187.813	3.5	D6S (3F)4F	66012.750	4.5	4P (3G)4F
624.7373	-1.322	87985.628	2.5	4D (5D)4P	103987.930	2.5	4F(5D)1[1]	631.7983	-2.488	60270.339	3.5	D5S2(7S)4D	44446.878	3.5	4P (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
631.8656	-6.325	22637.205	4.5	D6S (3F)4F	38458.981	4.5	4P (5D)6D	637.3215	-3.248	78525.407	2.5	5S (5D)6D
631.9330	-1.122	78237.685	3.5	5S (5D)6D	94057.773	4.5	4SP(5P)6D	637.4442	-3.745	105127.770	2.5	5D (5D)4D
632.0278	-3.152	80177.975	1.5	5S (5D)4D	95995.690	2.5	4SP(5P)4D	637.4544	-2.940	87985.628	2.5	4D (5D)4P
632.0498	-2.830	105288.530	1.5	5D (5D)6G	89471.365	0.5	5P (5D)6G	637.5758	-3.753	80177.975	1.5	5S (5D)4D
632.0502	-4.713	99688.337	3.5	5S (3F)4F	83871.184	4.5	4P (1F)2G	637.5792	-0.069	88189.030	0.5	4D (5D)4P
632.0711	-3.836	87985.628	2.5	4D (5D)4F	72168.998	1.5	4P (3D)4F	637.7679	-0.680	87985.628	2.5	4D (5D)4P
632.3213	-4.740	88157.116	1.5	4D (5D)4F	103967.490	0.5	4SP(3G)2S	637.7917	-2.782	108804.667	3.5	5S (3D)4D
632.5997	-4.568	81734.750	3.5	D5S2(7S)2F	65931.334	3.5	4P (3G)4F	638.2212	-2.848	108804.667	3.5	5S (3D)4D
632.6107	-4.651	78185.030	3.5	D5S2(7S)2G	93988.170	2.5	4SP(5G)4G	638.2876	-3.382	105288.530	1.5	5D (5D)6G
632.8219	-6.697	26170.181	5.5	D6S (3H)2H	41968.046	5.5	4P (5D)6F	638.3722	-2.760	60445.275	2.5	D5S2(7S)4D
632.8498	-0.285	104411.690	4.5	5D (5D)6D	88614.520	4.5	4SP(5P)6D	638.4098	-1.071	87985.628	2.5	4D (5D)4P
632.8736	-1.902	105127.770	2.5	5D (5D)4D	89331.195	1.5	5P (5D)6D	638.4934	-0.665	104380.940	3.5	5D (5D)6F
632.8925	-4.321	77861.625	4.5	5S (5D)6D	62065.521	3.5	4P (3F)4F	638.5451	-3.109	60441.033	1.5	D5S2(7S)4D
633.0826	-0.953	104000.810	3.5	5D (5D)6P	88209.450	3.5	4SP(5P)6G	638.6714	-2.631	54870.528	2.5	D6S (3F)2F
633.1954	-2.135	50142.786	2.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	638.8572	-7.320	22810.357	3.5	D6S (3F)4F
633.7841	-4.290	50157.452	4.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	639.0536	-3.942	57411.065	2.5	D5S2(7S)4D
633.8109	-4.620	54232.195	5.5	D5S2(7S)4G	38458.981	4.5	4P (5D)6D	639.2024	-3.834	79439.467	3.5	5S (5D)4D
634.0011	-2.243	84870.863	2.5	4D (5D)4D	69102.380	2.5	4SP(5S)4F	639.4512	-2.448	105524.461	4.5	4D (3F)4H
634.0841	-0.493	104380.940	3.5	5D (5D)6F	88614.520	4.5	4SP(5P)6D	639.4710	-3.386	87985.628	2.5	4D (5D)4P
634.2598	-6.418	26352.766	4.5	D6S (3H)2H	42114.818	4.5	4P (5D)6F	639.5141	-3.599	88157.116	1.5	4D (5D)4P
634.2888	-2.846	105205.790	2.5	5D (5D)6G	89444.458	2.5	4SP(5P)6F	639.5267	-3.969	78577.280	4.5	D5S2(7S)2G
634.3698	-3.785	88189.030	0.5	4D (5D)4P	72429.711	0.5	4P (3D)4D	639.6277	-3.881	103265.694	0.5	6S (5D)4D
634.3856	-2.688	105230.290	0.5	5D (5D)4D	89471.365	0.5	5P (5D)6D	639.7812	-4.860	77861.625	4.5	5S (5D)6D
634.5931	-1.938	104873.230	3.5	5D (5D)4D	89119.457	2.5	5P (5D)6D	639.9069	-4.350	77861.625	4.5	5S (5D)6D
634.7256	-4.902	78237.685	3.5	5S (5D)6D	93988.170	2.5	4SP(5G)4G	639.9615	-2.518	85048.602	1.5	4D (5D)4D
634.7543	-0.977	78237.685	3.5	5S (5D)6D	93988.170	2.5	4SP(5G)4G	639.9799	-1.338	105065.630	3.5	5D (5D)6G
634.8614	-4.657	87985.628	2.5	4D (5D)4D	72238.513	2.5	4P (3D)4F	640.0491	-3.859	54904.222	3.5	D6S (3F)2F
634.8857	-2.359	85048.602	1.5	4D (5D)4D	69302.090	1.5	4SP(5S)4F	640.1028	-8.601	27620.412	2.5	D6S (3F)2F
634.9133	-2.474	85172.809	0.5	4D (5D)4D	69426.980	0.5	4SP(5S)4F	640.1110	-4.368	82978.677	4.5	4D (5D)6F
634.9601	-0.544	104873.230	3.5	5D (5D)4D	89128.561	3.5	4SP(5P)6P	640.2214	-8.501	26352.766	4.5	D6S (3H)2H
635.0064	-4.753	50187.813	3.5	D6S (3F)4F	65931.334	3.5	4P (3G)4G	640.4123	-3.704	57578.484	0.5	D5S2(7S)4D
635.0277	-3.849	82853.658	5.5	4D (5D)6F	98596.650	4.5	4SP(5D)4F	640.4874	-3.647	57578.484	0.5	D5S2(7S)4P
635.1024	-0.805	103950.590	4.5	5D (5D)6F	88209.450	3.5	4SP(5P)6D	640.5075	-4.143	84710.685	3.5	4D (5D)6G
635.1509	-1.697	104868.500	4.5	5D (5D)6G	89128.561	3.5	4SP(5P)6P	640.6398	-2.914	57411.065	2.5	D5S2(7S)4D
635.4271	-4.154	49100.976	0.5	D6S (3P)4P	64834.073	1.5	4P (3P)2F	640.7251	-3.864	31364.440	1.5	D6S (3D)4D
635.4624	-3.472	57411.065	2.5	D5S2(7S)4P	73143.288	3.5	4P (1G)2G	640.8835	-4.685	79885.493	2.5	5S (5D)4D
635.6571	-2.978	88157.116	1.5	4D (5D)4P	72429.711	0.5	4P (3D)4D	641.1241	-1.544	78237.685	3.5	5S (5D)6D
635.7162	-0.166	87985.628	2.5	4D (5D)4P	103711.570	3.5	4F(5D)2[4]	641.2709	-4.723	80177.975	1.5	5S (5D)4D
635.8156	-4.664	81734.750	3.5	D5S2(7S)2F	66012.750	4.5	4P (3G)4F	641.4257	-0.971	104705.420	3.5	5D (5D)6D
635.9288	-6.623	22939.358	2.5	D6S (3F)4F	38660.043	3.5	4P (5D)6D	641.5551	-1.791	84685.198	3.5	5D (5D)6D
635.9366	-3.492	105763.270	5.5	4D (3F)2H	90042.779	4.5	4P (3F)4G	641.6773	-2.477	105205.790	2.5	5D (5D)6G
636.0266	-3.950	77230.900	4.5	D5S2(7S)2H	61512.634	4.5	4P (3H)4I	641.6919	-2.910	31387.948	2.5	D6S (3D)4D
636.2474	-0.572	87985.628	2.5	4D (5D)4P	103698.440	2.5	4F(5D)2[3]	641.8006	-0.681	104705.420	3.5	5D (5D)6F
636.2842	-0.843	88157.116	1.5	4D (5D)4P	103869.020	1.5	4F(5D)1[2]	641.9626	-0.216	104426.460	2.5	5D (5D)6F
636.4138	-0.629	104828.160	2.5	5D (5D)6D	89119.457	2.5	5P (5D)6D	642.1339	-2.146	84870.863	2.5	4D (5D)4D
636.6639	-4.883	99573.225	4.5	5S (3F)4F	83871.184	4.5	4P (1F)2G	642.3445	-4.901	105291.010	3.5	4D (3F)4G
636.7413	-0.742	88157.116	1.5	4D (5D)4P	103857.740	2.5	4F(5D)1[2]	642.4435	-4.434	57493.321	1.5	D5S2(7S)4F
636.7829	-0.718	104828.160	2.5	5D (5D)6D	89128.561	3.5	4SP(5P)6P	642.4550	-4.244	81639.260	2.5	D5S2(7S)2F
636.9375	-3.774	57493.321	1.5	D5S2(7S)4P	73189.110	1.5	4P (3D)2P	642.5720	-0.487	104411.690	4.5	5D (5D)6D
636.9462	-4.432	23317.633	2.5	D5S2(7S)6S	39013.206	1.5	4P (5D)6D	642.6127	-4.628	82978.677	4.5	4D (5D)6F
637.0117	-4.391	57493.321	1.5	D5S2(7S)4P	73187.280	0.5	4P (3D)2P	643.0758	-3.527	103118.400	1.5	6S (5D)4D
637.1125	-3.642	60445.275	2.5	D5S2(7S)4D	44753.799	3.5	4P (5D)4F	643.2680	-3.888	23317.633	2.5	D5S2(7S)6S
637.1257	-0.947	87985.628	2.5	4D (5D)4P	103676.780	3.5	4F(5D)2[3]	643.2680	-1.810	88157.116	1.5	4D (5D)4D
637.1721	-1.748	77861.625	4.5	5S (5D)6D	62171.615	3.5	4SP(7S)6P	643.3562	-4.836	77861.625	4.5	5S (5D)6D
637.2369	-4.754	60441.033	1.5	D5S2(7S)4D	76129.446	1.5	4P (1S)2P	643.3814	-2.814	50157.452	4.5	D6S (3F)4F
637.2419	-0.628	104411.690	4.5	5D (5D)6D	88723.400	4.5	5P (5D)6D	643.4211	-2.716	88157.116	1.5	4D (5D)4P
637.2939	-4.928	81639.260	2.5	D5S2(7S)2F	97326.270	1.5	4SP(3P)2P	643.7579	-4.425	84870.863	2.5	4D (5D)4D
637.3009	-2.995	105414.180	2.5	4D (3F)4G	89727.342	2.5	4P (3P)4G	643.8446	-1.330	104380.940	3.5	5D (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
643.9939	-4.286	105414.180	2.5	4D (3F)4G	89890.373	3.5	4P (3F)4G	651.0283	-2.411	105398.852	5.5	4D (3F)4H	90042.779	4.5	4P (3F)4G
644.1891	-2.677	88157.116	1.5	4D (5D)4P	103676.220	0.5	4F(5D)2111	651.0733	-0.466	89785.628	2.5	4D (5D)4P	103340.640	3.5	4F(5D)3[4]
644.2955	-3.356	60270.339	3.5	D5S2(7S)4D	44753.729	3.5	4P (5D)4F	651.5447	-4.850	80177.975	1.5	5S (5D)4D	64834.073	1.5	4P (3P)2P
644.3117	-3.012	103118.400	1.5	6S (5D)4D	87602.250	1.5	4SP(5G)6F	651.5702	-9.378	27314.922	3.5	D6S (3F)2F	42658.224	3.5	4P (3D)6P
644.4827	-4.004	80346.016	0.5	5S (5D)4D	95858.050	1.5	4SP(5P)4D	651.6081	-3.633	23317.633	2.5	D5S2(7S)6S	38660.043	3.5	4P (5D)6D
644.5018	-1.027	88157.116	1.5	4D (5D)4P	103668.690	1.5	4F(5D)2111	651.7018	-2.339	60384.370	0.5	D5S2(7S)4D	45044.168	1.5	4P (5D)4D
644.5268	-1.811	104630.430	1.5	5D (5D)6P	89119.457	2.5	5P (5D)6D	651.7832	-4.454	105065.630	3.5	5D (5D)6G	89727.342	2.5	4P (3F)4G
644.6410	-2.206	50187.813	3.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G	651.7854	-2.776	58631.531	4.5	D6S (1G)2G	73969.767	5.5	4P (1I)2I
644.6888	-7.938	26932.748	0.5	D6S (3P)2F	42439.822	0.5	4P (5D)6F	651.8774	-0.072	103950.590	4.5	5D (5D)6F	88614.520	4.5	4SP(3P)6D
644.8223	-1.800	88157.116	1.5	4D (5D)4P	103660.980	2.5	4F(5D)2121	652.0117	-4.631	54273.641	4.5	D5S2(7S)4G	90067.347	4.5	5P (3D)6F
644.9069	-1.405	105127.770	2.5	5D (5D)4D	89625.940	1.5	4SP(5P)6P	652.0715	-4.860	105598.852	5.5	4D (3F)4H	90067.347	4.5	5P (3D)6F
645.1094	-0.435	104828.160	2.5	5D (5D)6D	89331.195	1.5	5D (5D)6D	652.1104	-4.449	60270.339	3.5	D5S2(7S)4D	75600.931	3.5	4P (3D)2F
645.1512	-4.867	78577.280	4.5	D5S2(7S)2G	94073.240	3.5	4SP(5G)4G	652.1302	-2.082	105630.750	2.5	5D (5D)4G	90300.625	3.5	5P (3D)6F
645.3712	-3.592	79439.467	3.5	5S (5D)4D	63948.790	4.5	4P (3F)4G	652.4014	-3.279	79439.467	3.5	5S (5D)4D	94763.219	3.5	4SP(5D)6P
645.4784	-2.256	88157.116	1.5	4D (5D)4P	103645.220	1.5	4F(5D)2121	652.4726	0.250	103936.600	5.5	5D (5D)6F	88614.520	4.5	4SP(5P)6D
645.5121	-4.414	44915.046	3.5	D6S (1F)2F	60402.342	2.5	4P (3P)4P	652.5286	-4.510	105211.140	4.5	5D (5D)4G	89890.373	3.5	4P (3F)4G
645.5165	-0.411	88189.030	0.5	4D (5D)4P	103676.220	0.5	4F(5D)2111	652.5575	-3.029	108804.667	3.5	5S (3D)4D	93484.580	4.5	4P (3F)4F
645.5683	-2.756	78725.790	1.5	5S (5D)6D	94211.739	2.5	4SP(5P)4P	652.6883	-4.014	108804.667	3.5	5S (3D)4D	93484.580	4.5	4P (3F)4F
645.5837	-3.456	60270.339	3.5	D5S2(7S)4D	44784.761	2.5	4P (5D)4D	652.7771	-1.543	78525.407	2.5	5S (5D)6D	93840.340	1.5	4SP(5D)6D
645.6383	-2.251	31483.176	3.5	D6S (3D)4D	46967.444	2.5	4P (5D)4P	652.8228	-3.180	105711.730	2.5	5D (5D)6S	90397.868	3.5	5P (5D)4D
645.7129	-3.191	103118.400	1.5	6S (5D)4D	87635.920	0.5	4SP(5P)6D	653.1153	-0.937	104426.460	2.5	5D (5D)6F	89119.457	2.5	5P (5D)6D
645.8305	-0.663	88189.030	0.5	4D (5D)4P	103668.690	1.5	4F(5D)2111	653.1757	-1.326	78725.790	1.5	5S (5D)6D	94031.378	0.5	4SP(5D)6D
646.2650	-0.283	104588.710	1.5	5D (5D)6D	89119.457	2.5	5P (5D)6D	653.1764	-1.381	78525.407	2.5	5S (5D)6D	93830.979	2.5	4SP(5D)6D
646.5363	-4.615	78525.407	2.5	5S (5D)6D	93988.170	2.5	4SP(5G)4G	653.3697	-4.688	49506.934	1.5	D6S (3P)4P	87964.650	1.5	4SP(3P)6D
646.5661	-1.040	78525.407	2.5	5S (5D)6D	93987.457	3.5	4SP(5G)6D	653.4333	-4.483	103265.694	0.5	6S (5D)4D	87964.650	1.5	4SP(3P)6D
646.6074	-4.042	87985.628	2.5	4D (5D)4P	72524.566	1.5	4P (3D)4D	653.4469	-0.693	104630.430	1.5	5D (5D)6F	89331.195	1.5	5P (5D)6D
646.6134	-4.981	99332.102	4.5	5S (3H)2H	83871.184	4.5	4P (1F)2G	653.5040	-1.517	104426.460	2.5	5D (5D)6F	89128.561	3.5	4SP(5P)6P
646.6483	-4.019	79885.493	2.5	5S (5D)4D	64425.400	1.5	4P (3F)2F	653.7284	-4.707	78527.685	3.5	5S (5D)6D	62945.038	3.5	4P (3F)4D
647.8133	-1.384	87985.628	2.5	4D (5D)4P	103417.910	1.5	4F(5D)3111	654.0236	-0.633	104757.110	0.5	5D (5D)6D	89471.365	0.5	5P (5D)6D
647.9607	-0.342	104873.230	3.5	5D (5D)4D	89444.458	2.5	4SP(5P)6P	654.1356	0.194	104411.690	4.5	4SP(5D)6D	89128.561	3.5	4SP(5P)6P
648.0807	-0.475	104757.110	0.5	5D (5D)6D	89331.195	1.5	5P (5D)6D	654.2625	-2.005	88157.116	1.5	4D (5D)4P	103437.280	0.5	4F(5D)3[11]
648.2204	-2.011	50157.452	4.5	D6S (3F)4F	65580.041	5.5	4P (3G)4G	654.3804	-0.554	104000.810	3.5	5D (5D)6P	88723.400	4.5	5P (5D)6D
648.2585	-4.004	80346.016	0.5	5S (5D)4D	95767.700	0.5	4SP(5P)4D	654.7720	-4.292	77861.625	4.5	5S (5D)6D	93129.900	3.5	4P (3F)4D
648.3031	-0.423	87985.628	2.5	4D (5D)4P	103406.250	2.5	4F(5D)3121	654.8379	-0.156	104210.270	2.5	5D (5D)6P	88853.533	3.5	5P (5D)6D
648.7339	-2.432	54904.222	3.5	D6S (3F)2F	70314.604	4.5	4P (3G)2G	655.0634	-0.145	104380.940	3.5	5D (5D)6F	87537.652	3.5	4SP(5G)6F
648.9327	-0.804	87985.628	2.5	4D (5D)4P	103391.290	1.5	4F(5D)3121	655.0758	-3.186	79439.467	3.5	5S (5D)4D	94700.660	2.5	4P (3F)2D
649.1246	-3.289	60445.275	2.5	D5S2(7S)4D	45044.168	1.5	4P (5D)4D	655.0856	-0.885	88157.116	1.5	4D (5D)4P	103418.080	0.5	4F(5D)3[01]
649.1444	-2.895	105291.010	3.5	4D (3F)4G	89890.373	3.5	4P (3F)4G	655.0856	-0.885	88157.116	1.5	4D (5D)4P	103418.080	0.5	4F(5D)3[01]
649.1670	-0.113	87985.628	2.5	4D (5D)4P	103385.730	3.5	4F(5D)3131	655.0857	-0.213	104705.420	3.5	5D (5D)6D	89444.458	2.5	4SP(3P)6P
649.1981	-4.600	83136.487	3.5	4D (5D)6F	98535.850	3.5	4SP(5D)4F	655.0901	-4.846	106836.000	3.5	4P(7P)8P	91575.139	2.5	5P (5D)6P
649.2207	-4.265	50157.452	4.5	D6S (3F)4F	65556.280	4.5	4P (3H)2H	655.0929	-3.509	88157.116	1.5	4D (5D)4P	103417.910	1.5	4F(5D)3[11]
649.3035	-3.057	60441.033	1.5	D5S2(7S)4D	45044.168	1.5	4P (5D)4D	655.2337	-0.731	104588.710	1.5	5D (5D)6D	89331.195	1.5	5P (5D)6D
649.7497	-0.613	104000.810	3.5	5D (5D)6P	88614.520	4.5	4SP(5P)6D	655.4521	-4.887	78525.407	2.5	5S (5D)6D	63272.976	2.5	4P (3F)4D
649.8590	-1.941	104828.160	2.5	5D (5D)6D	89444.458	2.5	4SP(5P)6P	655.4544	-0.280	104380.940	3.5	5S (5D)6F	89128.561	3.5	4SP(5P)6P
649.9228	-2.092	105449.540	3.5	5D (5D)4G	90067.347	4.5	5P (5D)6F	655.4544	-0.280	104380.940	3.5	5S (5D)6F	89128.561	3.5	4SP(5P)6P
650.0488	-0.460	87985.628	2.5	4D (5D)4P	103364.840	2.5	4F(5D)3131	655.5938	-1.727	88157.116	1.5	4D (5D)4P	103406.250	2.5	4F(5D)3[21]
650.2333	-4.634	54275.637	2.5	D5S2(7S)4G	69650.484	2.5	4P (3G)2F	655.6318	-0.472	88189.030	0.5	4D (5D)4P	103437.280	0.5	4F(5D)3[11]
650.3621	-2.582	77230.900	4.5	D5S2(7S)2H	92602.703	3.5	4P (3G)2G	655.6327	-4.155	105291.010	3.5	4P (3F)4G	90042.779	4.5	4P (3F)4G
650.4971	-4.933	83136.487	3.5	4D (5D)6F	98505.100	2.5	4SP(5D)4D	655.6901	-3.771	78237.685	3.5	5S (5D)6D	93484.580	4.5	4P (3F)4F
650.5033	-3.538	50187.813	3.5	D6S (3F)4F	65556.280	4.5	4P (3H)2H	655.7448	-2.013	79439.467	3.5	5S (5D)4D	94685.090	2.5	4SP(5D)6P
650.5411	-3.520	103265.694	0.5	6S (5D)4D	87898.120	0.5	4SP(5G)6F	655.9519	-3.060	57411.065	2.5	D5S2(7S)4P	72651.876	3.5	4P (3D)4D
650.5542	-4.488	54283.220	3.5	D5S2(7S)4G	69650.484	2.5	4P (3G)2G	655.9871	-3.878	78185.030	3.5	D5S2(7S)2G	62945.038	3.5	4P (3F)4D
650.6018	-3.529	87985.628	2.5	4D (5D)4P	72619.490	2.5	4P (3D)4D	656.2200	-3.350	60441.033	1.5	D5S2(7S)4D	45206.450	0.5	4P (5D)4D
650.6333	-3.535	60445.275	2.5	D5S2(7S)4D	45079.879	2.5	4P (5D)4F	656.2200	-3.350	60441.033	1.5	D5S2(7S)4D	45206.450	0.5	4P (5D)4D
650.6639	-2.959	105288.847	6.5	4D (3F)4H	89924.175	5.5	5P (5D)6F	656.2393	-3.136	105630.750	2.5	5D (5D)4G	90397.868	3.5	5P (5D)4D
650.8129	-3.902	60441.033	1.5	D5S2(7S)4D	45079.879	2.5	4P (5D)4F	656.4226	-2.340	102802.312	2.5	6S (5D)4D	87572.431	2.5	4SP(5G)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
656.4584	-1.885	88189.030	0.5	4D (5D)4P	103418.080	0.5	4F(5D)J3[1]	662.1979	-0.054	103950.590	4.5	5D (5D)6F
656.4658	-0.994	88189.030	0.5	4D (5D)4P	103417.910	1.5	4F(5D)J3[0]	662.2765	-0.348	104426.460	2.5	5D (5D)6F
656.5386	-0.070	103950.590	4.5	5D (3D)6F	88723.400	4.5	5P (5D)6D	662.3070	-4.024	60384.370	0.5	D5S2(7S)4D
656.6533	-4.203	84326.912	2.5	4D (5D)6P	69102.380	2.5	4SP(5S)4P	662.7261	-1.794	58666.238	3.5	D6S (1G)2G
656.6796	-2.096	105711.730	2.5	5D (5D)6S	90487.810	2.5	5P (5D)6S	662.8665	-2.276	105711.730	2.5	5D (5D)6S
656.6833	-4.761	105524.461	4.5	4D (3F)4H	90300.625	3.5	5P (5D)6F	663.0723	-2.460	105288.847	6.5	4D (3F)4H
656.6907	-4.918	105291.010	3.5	4D (3F)4G	90067.347	4.5	5P (5D)6F	663.2588	-2.045	105711.730	2.5	5D (5D)6S
656.7509	-2.670	99093.452	5.5	5S (3H)2H	83871.184	4.5	4P (1F)2G	663.6315	-1.860	102666.694	0.5	6S (5D)6D
656.8367	-4.211	103118.400	1.5	6S (5D)4D	87898.120	0.5	4SP(5G)6F	663.6946	-2.035	105449.540	3.5	5D (5D)4G
657.1424	0.096	103936.600	5.5	5D (5D)6P	88723.400	4.5	5P (5D)6D	663.8142	-4.875	78523.407	2.5	5S (5D)6D
657.2664	-4.249	78185.030	3.5	D5S2(7S)2G	93395.360	2.5	4P (3F)4F	663.8705	-3.255	103118.400	1.5	6S (5D)4D
657.3347	-4.564	57411.065	2.5	D5S2(7S)4P	72619.490	2.5	4P (3D)4D	664.1946	-1.136	105469.540	3.5	5D (5D)4G
657.3790	-1.153	88157.116	1.5	4D (5D)4P	103364.840	2.5	4F(5D)J3[1]	664.1995	-2.752	77230.900	4.5	D5S2(7S)2H
657.4474	-2.367	50157.452	4.5	D6S (3F)4F	65363.595	5.5	4P (3H)2H	664.3067	-0.859	87985.628	2.5	4D (5D)4P
657.6153	-1.893	88189.030	0.5	4D (5D)4P	103391.290	1.5	4F(5D)J3[2]	664.4044	-4.899	83308.194	2.5	4SP(5D)6F
657.6170	-0.356	104828.160	2.5	5D (3D)6D	89625.940	1.5	4SP(5P)6P	664.7692	-0.595	87985.628	2.5	4D (5D)4P
657.7104	-2.610	102802.312	2.5	6S (5D)4D	87602.250	1.5	4SP(5G)6F	664.8068	-9.189	27620.412	2.5	D6S (3F)2F
657.8827	-4.952	77230.900	4.5	D5S2(7S)2H	92426.980	4.5	4SP(5G)4F	664.8315	-1.303	105630.750	5.5	5D (5D)4G
657.9664	-4.327	79885.493	2.5	5S (5D)4D	95079.640	3.5	4P (3F)2F	665.0972	-2.752	57493.321	1.5	D5S2(7S)4P
658.1261	-4.668	60270.339	3.5	D5S2(7S)4D	45079.879	2.5	4P (5D)4F	665.1181	-1.746	102666.694	0.5	6S (5D)6D
658.2593	-1.832	78843.992	0.5	5S (5D)6D	94031.378	0.5	4SP(5D)6D	665.3816	-4.574	84326.912	2.5	4D (5D)6P
658.3206	-0.933	104630.430	1.5	5D (5D)6P	89444.458	2.5	4SP(5P)6P	665.4689	-4.780	105065.630	3.5	5D (5D)6G
658.6699	-3.248	60384.370	0.5	D5S2(7S)4D	45206.450	0.5	4P (5D)4D	665.5610	-4.515	105063.550	5.5	4D (3F)4G
658.7855	-4.536	105065.630	3.5	5D (5D)6G	89890.373	3.5	4P (3F)4G	665.5996	-6.273	27314.922	3.5	D6S (3F)2F
659.0850	-4.928	105211.140	4.5	5D (5D)4D	90042.779	4.5	4P (3F)4G	665.7586	-4.796	105414.180	2.5	4D (3F)4G
659.2146	-3.734	77230.900	4.5	D5S2(7S)2H	62065.521	3.5	4P (3F)4F	665.8585	-4.589	79439.467	3.5	5S (5D)4D
659.2669	-3.138	84266.556	3.5	4D (5D)6P	69102.380	2.5	4SP(5S)4P	666.2842	-0.884	104630.430	1.5	5D (5D)6P
659.4221	-4.535	79885.493	2.5	5S (5D)4D	95046.100	2.5	4P (3F)2F	666.4039	-4.008	88189.030	0.5	4D (5D)4P
659.4891	-0.365	104630.430	1.5	5D (5D)6P	89471.365	0.5	5P (5D)6D	666.4450	-4.435	105630.750	2.5	5D (5D)4G
659.5496	-4.209	78237.685	3.5	5S (5D)6D	93395.360	2.5	4P (3F)4F	666.4465	-0.106	104120.270	2.5	5D (5D)6P
659.6375	-4.773	60445.275	2.5	D5S2(7S)4D	75600.931	3.5	4P (3D)2F	666.4862	-4.447	88189.030	0.5	4D (5D)4P
659.6454	-4.660	10445.275	2.5	D5S2(7S)4D	45289.801	1.5	4P (5D)4F	666.5075	-3.990	105211.140	4.5	4D (5D)4G
659.7205	-3.052	103118.400	1.5	6S (5D)4D	87964.650	1.5	4SP(5P)6D	666.5589	-1.616	105065.630	3.5	5D (5D)6G
659.7273	-4.161	79885.493	2.5	5S (5D)4D	95039.240	1.5	4P (3F)2F	666.6449	-1.218	78843.992	0.5	5S (5D)6D
659.7428	-3.568	79439.467	3.5	5S (5D)4D	64286.325	3.5	4P (3F)2F	666.6514	-3.722	105063.550	5.5	4D (3F)4G
659.8301	-3.833	60441.033	1.5	D5S2(7S)4D	45289.801	1.5	4P (5D)4F	666.8415	-0.909	105630.750	2.5	5D (5D)4G
659.9310	-0.587	105449.540	3.5	5D (5D)4G	90300.625	3.5	5P (5D)6P	666.8925	-0.652	104426.460	2.5	5D (5D)6F
659.9739	-3.334	77230.900	4.5	D5S2(7S)2H	62083.108	4.5	4P (3H)2G	667.2833	-0.652	104426.460	2.5	5D (5D)6F
660.0024	0.106	104000.810	3.5	5D (5D)6P	88853.533	3.5	5P (5D)6D	667.4559	-3.744	104868.500	4.5	5D (5D)6G
660.1342	-1.485	104588.710	1.5	5D (5D)6D	89444.458	2.5	4SP(5P)6P	667.4581	-4.962	104705.420	3.5	5D (5D)6D
660.1542	-0.464	105211.140	4.5	5D (5D)4G	90067.347	4.5	5P (5D)6F	667.5327	-4.671	86599.738	2.5	4D (5D)4F
660.1914	-1.144	105630.750	2.5	5D (5D)4G	90487.810	2.5	5P (5D)6F	667.7305	-1.781	58631.531	4.5	D6S (1G)2H
660.3131	-4.039	98445.400	4.5	5S (3H)4H	83305.251	3.5	4P (1F)2G	667.7640	-1.343	102543.648	1.5	6S (5D)6D
660.3469	-3.235	105063.550	5.5	4D (3F)4G	89924.175	5.5	5P (5D)6F	667.8256	-4.495	88157.116	1.5	4D (5D)4P
660.7049	-1.879	104757.110	0.5	5D (5D)6D	89625.940	1.5	4SP(5P)6P	667.8414	-2.788	87985.628	2.5	4D (5D)4P
660.9234	-3.193	57493.321	1.5	D5S2(7S)4P	72619.490	2.5	4P (3D)4D	667.8837	-0.489	88157.116	1.5	4D (5D)4P
660.9674	-0.916	87985.628	2.5	4D (5D)4P	103110.790	1.5	4F(5D)J4[1]	667.9072	-3.825	88157.116	1.5	4D (5D)4P
661.0934	-4.680	84424.370	1.5	4D (5D)6P	69302.090	1.5	4SP(5S)4P	667.9569	-3.307	50142.786	2.5	D6S (3F)4F
661.2039	-3.664	58631.531	4.5	D6S (1G)2G	73751.282	4.5	4P (1I)2H	667.9748	-0.545	87985.628	2.5	4D (5D)4P
661.2703	-4.112	105711.730	2.5	5D (5D)6S	90593.497	1.5	5P (5D)6F	668.0544	-4.702	104588.710	1.5	5D (5D)6D
661.3092	-0.585	104588.710	1.5	5D (3D)6D	89471.365	0.5	5P (5D)6D	668.1645	-4.617	78523.407	2.5	5S (5D)6D
661.4315	-2.094	81639.260	2.5	D5S2(7S)2F	66522.364	0.5	4P (3G)4F	668.1874	-0.521	105449.540	3.5	5D (5D)4G
661.4750	-4.888	78725.790	1.5	5S (5D)6D	93840.340	1.5	4SP(5D)6D	668.1474	-0.633	87985.628	2.5	4D (5D)4P
661.4774	-2.902	105414.180	2.5	4D (3F)4G	90300.625	3.5	5P (5D)6F	668.5479	-0.633	87985.628	2.5	4D (5D)4P
661.4774	-2.902	57411.065	2.5	D5S2(7S)4P	72524.566	1.5	4P (3D)4D	668.5479	-0.684	88157.116	1.5	4F(5D)4[1]
661.5295	-2.721	105155.090	4.5	4D (3F)4G	90042.779	4.5	4P (3F)4G	668.9412	-4.734	78185.030	3.5	D5S2(7S)2G
661.8414	-1.080	78725.790	1.5	5S (5D)6D	93830.979	2.5	4SP(5D)6D	668.9656	-2.168	104868.500	4.5	5D (5D)6G
661.9708	-4.013	88157.116	1.5	4D (5D)4P	73054.881	2.5	4P (1G)2F	669.0075	-4.168	105155.090	4.5	4D (3F)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
669.0967	-1.302	102543.648	1.5	6S (5D)6D	72602.250	1.5	4SP(5G)6F	674.9029	-2.443	105711.730	2.5	5D (5D)6S
669.1163	-4.192	57411.065	2.5	D5S2(7S)4F	87352.024	3.5	4P (3D)4F	675.0004	-0.439	105449.540	3.5	5D (5D)4G
669.1927	-1.952	104863.430	5.5	5D (5D)4G	89924.175	5.5	5P (5D)6F	675.0055	-2.440	105711.730	2.5	5D (5D)6S
669.2714	-4.309	85462.862	3.5	4D (5D)4G	100400.360	2.5	4SP(3P)2D	675.0565	-4.566	83726.364	4.5	4D (5D)6D
669.3107	-1.816	88189.030	0.5	4D (5D)4F	103125.650	0.5	4F(5D)4I11	675.1278	-1.850	105205.790	2.5	5D (5D)6G
669.3169	-0.793	104380.940	3.5	5D (5D)6F	89444.458	2.5	4SP(5P)6P	675.2208	-1.146	104873.230	3.5	5D (5D)4F
669.3210	-4.372	57493.321	1.5	D5S2(7S)4F	72429.711	0.5	4P (3D)4D	675.3432	-3.922	105291.010	3.5	4D (3F)4G
669.5578	-2.827	105711.730	2.5	5D (5D)6S	90780.621	3.5	5P (5D)4F	675.3490	-4.572	78525.407	2.5	5S (5D)6D
669.5740	-4.550	87985.628	2.5	4D (5D)4F	73054.881	2.5	4P (1G)2F	675.4366	-0.732	104868.500	4.5	5D (5D)6G
669.6164	-4.052	48039.090	2.5	D7 (5D)2D	62962.205	1.5	4P (3P)4D	675.4564	-1.566	105288.530	1.5	5D (5D)6G
669.9237	-1.674	102394.718	3.5	6S (5D)4D	87471.765	4.5	4SP(5G)6F	675.4655	-1.661	104426.460	2.5	5D (5D)6F
669.9615	-6.475	27314.922	3.5	D6S (3F)2F	42237.033	3.5	4P (5D)6F	675.4940	-0.831	27314.922	3.5	D6S (3F)2F
670.2096	-4.596	77861.625	4.5	5S (5D)6D	62945.038	2.5	4P (3F)4D	675.5508	-0.954	102334.112	2.5	6S (5D)6D
670.4133	-3.961	78185.030	3.5	D5S2(7S)2G	63272.976	2.5	4P (3F)4D	675.6680	-0.410	104863.430	5.5	5D (5D)6F
670.4625	0.036	105211.140	4.5	5D (5D)4G	90300.625	3.5	5P (5D)6F	675.8745	-4.720	83713.536	3.5	4D (5D)6D
670.4891	-3.421	78577.280	4.5	D5S2(7S)2G	93487.650	3.5	4P (3F)4F	675.9882	-0.959	104120.270	2.5	5D (5D)6F
670.5746	-3.797	77230.900	4.5	D5S2(7S)2H	62322.431	3.5	4P (3H)2G	676.4053	-2.882	54870.528	2.5	D6S (3F)2F
670.6079	-1.626	102543.648	1.5	6S (5D)6D	87635.920	0.5	4SP(5P)6D	676.4618	-4.575	105414.180	2.5	4D (3F)4G
670.6271	-4.193	78577.280	4.5	D5S2(7S)2G	93484.580	4.5	4P (3F)4F	676.6158	-4.575	105414.180	2.5	4D (3F)4G
670.6680	-4.715	48039.090	2.5	D7 (5D)2D	62945.038	3.5	4P (3H)2G	676.7571	-1.789	79439.467	3.5	5S (5D)4D
670.7232	-1.816	105205.790	2.5	5D (5D)6G	90300.625	3.5	5P (5D)6F	676.9266	-1.404	102666.694	0.5	6S (5D)6D
670.7539	-4.576	105291.010	3.5	4D (3F)4G	90386.528	4.5	5P (5D)4F	677.0902	-0.627	105065.630	3.5	5D (5D)6G
670.8885	-0.592	87985.628	2.5	4D (5D)4F	102887.120	3.5	4F(5D)4I4	677.2427	-1.020	102334.112	2.5	6S (5D)6D
671.2647	-3.880	105291.010	3.5	4D (3F)4G	90397.868	3.5	5P (5D)4D	677.4147	-4.575	57411.065	2.5	D5S2(7S)4F
671.3065	-4.785	78237.685	3.5	5S (5D)6D	93129.900	3.5	4P (3F)4D	678.0622	-4.681	105524.461	4.5	4D (3F)4H
671.7170	-4.518	83713.536	3.5	4D (5D)6F	89596.650	4.5	4SP(5D)4F	678.1040	-2.818	102802.312	2.5	6S (5D)4D
671.7964	-0.543	104000.810	3.5	5D (5D)6D	98119.457	2.5	5P (5D)6D	678.4219	-3.459	54870.528	2.5	D6S (3F)2F
671.9602	-3.624	79885.493	2.5	5S (5D)4D	94763.219	3.5	4SP(5D)6P	678.5043	-4.668	81734.750	3.5	D5S2(7S)2F
671.9639	-0.612	88157.116	1.5	4D (5D)4F	103034.760	1.5	4F(5D)4I2	678.6128	-3.875	105630.750	2.5	5D (5D)4G
672.2077	-1.063	104000.810	3.5	5D (5D)6P	89128.561	3.5	4SP(5P)6P	678.6135	-1.402	102334.112	2.5	6S (5D)6D
672.2964	-4.408	83726.364	4.5	4D (5D)6D	98596.650	4.5	4SP(5D)4F	678.6336	-4.647	108804.667	3.5	5S (3D)4D
672.3115	-3.543	78525.407	2.5	5S (5D)6D	93395.360	2.5	4P (3F)4F	678.7038	-0.464	105127.770	2.5	5D (5D)4G
672.4372	-0.907	88157.116	1.5	4D (5D)4F	103024.290	1.5	4F(5D)4I2	678.7165	-1.804	105630.750	2.5	5D (5D)4G
672.7063	-3.933	80177.975	1.5	5S (5D)4D	95039.200	1.5	4P (3P)2F	679.1298	-4.957	85679.698	2.5	4D (5D)4G
672.8946	-1.762	102394.718	3.5	6S (5D)4D	92089.260	3.5	4SP(5G)6F	679.1762	-2.784	57493.321	1.5	D5S2(7S)4F
673.0125	-3.554	105155.090	4.5	4D (3F)4G	87537.652	3.5	4SP(5G)6F	679.2536	-0.352	105205.790	2.5	5D (5D)6G
673.0482	-1.861	79885.493	2.5	5S (5D)4D	90300.625	3.5	5P (5D)6F	679.2665	-3.947	81639.260	2.5	D5S2(7S)2F
673.1310	-2.758	1045063.550	5.5	4P (3D)4G	94739.170	1.5	4SP(5P)4F	679.4184	-6.940	27620.412	2.5	D6S (3F)2F
673.1592	-2.942	57578.484	0.5	D5S2(7S)4F	90211.700	5.5	4P (3F)4G	679.4295	-4.251	78185.030	3.5	D5S2(7S)2F
673.2090	-1.857	103630.750	2.5	5D (5D)4G	72429.711	0.5	4P (3D)4D	679.6250	-4.750	83812.316	2.5	4D (5D)6D
673.4085	-1.897	88189.030	0.5	4D (5D)4F	90780.621	3.5	5P (5D)4F	679.6663	-3.946	79439.467	3.5	5S (5D)4D
673.5623	-3.350	102802.312	2.5	4D (5D)4F	103034.760	1.5	4F(5D)4I2	679.9565	-2.211	54900.740	0.5	4SP(3P)2F
674.2388	-4.291	57411.065	2.5	D5S2(7S)4F	73143.288	3.5	4P (1G)2G	679.9766	-3.059	54900.740	0.5	4SP(3P)2F
674.2526	-0.777	105127.770	2.5	5D (5D)4D	87964.650	1.5	4SP(5P)6D	679.9899	-1.489	102666.694	0.5	6S (5D)6D
674.3173	-3.517	104868.500	4.5	5D (5D)6G	72238.513	2.5	4P (3D)4F	680.3143	-0.421	105288.530	1.5	5D (5D)6G
674.3678	-0.429	105211.140	4.5	5D (5D)4G	90300.625	3.5	5P (5D)6F	680.3999	-4.234	80346.016	0.5	5S (5D)4D
674.4735	-2.186	102394.718	3.5	6S (5D)4D	90042.779	4.5	4P (3F)4G	680.6413	-4.984	83990.063	1.5	4D (5D)6D
674.4853	-1.300	103950.590	4.5	5D (5D)6F	90386.528	4.5	5P (5D)4F	681.0526	-2.385	105065.630	3.5	5D (5D)6G
674.5465	-4.623	105414.180	2.5	4D (3F)4G	87572.431	2.5	4SP(5G)6F	681.1133	-4.621	83713.536	3.5	4D (5D)6D
674.7046	-4.554	108804.667	3.5	5S (3D)4D	90128.561	3.5	4SP(5P)6F	681.1492	-3.323	105063.550	5.5	4D (3F)4G
674.7977	-3.793	79885.493	2.5	5S (5D)4D	90593.497	1.5	5P (5D)6F	681.2053	-1.600	104120.270	2.5	5D (5D)6P
674.8032	-4.888	104700.420	3.5	5D (5D)6D	93987.457	3.5	4SP(5D)6D	681.2116	-4.985	57493.321	1.5	D5S2(7S)4F
674.8840	-0.046	105211.140	4.5	5D (5D)4G	94700.660	2.5	4P (3F)4G	681.2666	-4.134	50157.452	4.5	D6S (3F)4F
					89890.373	3.5	4P (3F)4G	681.4952	-3.856	78725.790	1.5	5S (5D)6D
					90397.868	3.5	5P (5D)4D	681.5172	-0.770	104593.270	5.5	5D (5D)6G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
681.5254	-0.397	105449.540	3.5	5D (5D)4G	90780.621	3.5	5P (5D)4F	687.1906	-2.720	79439.467	3.5	5S (5D)4D
681.5769	-4.939	86710.837	1.5	4D (5D)4F	72043.026	1.5	4P (3D)4P	687.3441	-3.631	81734.750	3.5	D5S2(7S)2F
681.5792	-0.666	105065.630	3.5	5D (5D)6G	90397.868	3.5	5P (5D)4D	687.3889	-0.625	105711.730	2.5	5D (5D)6S
681.7785	-1.826	105711.730	2.5	5D (5D)6S	91048.276	1.5	5P (5D)6F	687.4813	-4.988	86710.837	1.5	4D (5D)4F
681.8172	-4.678	104705.420	3.5	5D (5D)6D	90042.779	4.5	4P (3F)4G	687.7388	-3.037	78577.280	4.5	D5S2(7S)2G
682.0039	-2.906	105288.530	1.5	5D (5D)6G	90629.902	1.5	4P (3P)4S	687.8178	-2.380	80346.016	0.5	5S (5D)4D
682.0889	-2.694	104868.500	4.5	5D (5D)6G	90211.700	5.5	4P (3F)4G	687.8591	-2.694	105127.770	2.5	5D (5D)4D
682.1189	-3.927	108804.667	3.5	5S (3D)4G	94148.510	4.5	4SP(5G)4G	688.1582	-1.541	104828.160	2.5	5D (5D)6D
682.3036	-4.196	105291.010	3.5	4D (3F)4G	90638.822	2.5	5P (5D)4D	688.2345	0.217	104593.270	5.5	5D (5D)6G
682.3250	-2.490	104863.430	5.5	5D (5D)4G	90211.700	5.5	4P (3F)4G	688.5687	-4.975	105589.420	3.5	4D (3F)4H
682.3687	-4.954	48039.090	2.5	D7 (5D)2D	62689.880	2.5	4P (3P)4D	688.8447	-4.107	105414.180	2.5	4D (3F)4G
682.4191	-2.562	105288.530	1.5	5D (5D)6G	90638.822	2.5	5P (5D)4D	688.9064	-3.870	78631.531	4.5	D6S (1G)2G
682.6139	-2.962	102543.648	1.5	6S (5D)6D	87898.120	0.5	4SP(5G)6F	688.9713	-3.940	105291.010	3.5	4D (3F)4G
682.6791	-3.348	50187.813	3.5	D6S (3F)4F	64831.943	4.5	4P (3F)2G	688.9735	-4.602	78185.030	3.5	D5S2(7S)2G
682.8165	-2.863	105711.730	2.5	5D (5D)6F	91070.547	2.5	5P (5D)4F	689.3298	-1.366	105711.730	2.5	5D (5D)6S
682.8571	-0.003	105288.530	1.5	5D (5D)6G	90648.217	0.5	5P (5D)6F	689.5663	-4.319	105127.770	2.5	5D (5D)4D
682.8609	-2.437	81639.260	2.5	D5S2(7S)2F	96279.490	2.5	4SP(3G)2F	689.7347	-2.422	104120.270	2.5	5D (5D)6F
682.8759	-1.532	105127.770	2.5	5D (5D)4D	90487.810	2.5	5P (5D)6F	689.7856	-0.840	102030.912	3.5	6S (5D)6D
682.8735	-4.382	81639.260	2.5	D5S2(7S)2F	67000.517	2.5	4P (3F)2D	689.9138	-4.699	104380.940	3.5	5D (5D)6F
682.9616	-1.775	104705.420	3.5	5D (5D)6D	90067.347	4.5	5P (5D)6F	689.9909	-0.144	105127.770	2.5	5D (5D)4D
683.0213	-4.160	105230.290	0.5	5D (5D)4F	90593.497	1.5	5P (5D)6F	690.0591	-1.550	104411.690	4.5	5D (5D)6D
683.1037	-4.304	86599.738	2.5	4D (5D)4F	71964.710	2.5	4P (3D)4P	690.0979	-1.250	104873.230	3.5	5D (5D)4D
683.2469	-3.316	57411.065	2.5	D5S2(7S)4P	72043.026	1.5	4P (3D)4P	690.2033	-4.650	78843.992	0.5	5S (5D)6D
683.4090	-4.543	78577.280	4.5	D5S2(7S)2G	63948.790	4.5	4P (3F)4G	690.2138	-1.194	102543.648	1.5	6S (5D)6D
683.7025	-2.245	81734.750	3.5	D5S2(7S)2F	96356.960	3.5	4SP(3G)2F	690.3232	-0.659	104868.500	4.5	5D (5D)6G
683.7475	-3.710	50212.826	2.5	D6S (3P)4P	64834.073	1.5	4P (3P)2P	690.5589	-3.452	58666.258	3.5	D6S (1G)2G
683.8851	-2.845	79439.467	3.5	5S (5D)4D	94037.773	3.5	4SP(5D)6F	690.5650	0.326	104863.430	5.5	5D (5D)4G
683.9639	-9.861	27620.412	2.5	D6S (3F)2F	42237.033	3.5	4P (5D)6D	690.6385	-0.452	104873.230	3.5	5D (5D)4D
684.1665	0.180	105205.790	2.5	5D (5D)6G	90593.497	1.5	5P (5D)6F	690.8281	-2.793	57493.321	1.5	D5S2(7S)4P
684.2197	-4.385	83713.536	3.5	4D (5D)6D	69102.380	2.5	4SP(5S)4F	690.8642	-0.163	104868.500	4.5	5D (5D)6G
684.6164	-4.518	78725.790	1.5	5S (5D)6D	93328.480	1.5	4P (3F)4F	691.1551	-2.845	57578.484	0.5	D6S (1G)2G
685.0744	-3.874	108804.667	3.5	5S (3D)4D	94211.739	2.5	4SP(5P)4D	691.3694	-3.235	58631.531	4.5	5D (5D)6G
685.0775	-2.419	102802.312	2.5	6S (5D)4D	88209.450	3.5	4SP(5P)6D	691.4289	-4.923	108648.695	6.5	5S (11)2I
685.1878	-3.842	57578.484	0.5	D5S2(7S)4F	72168.998	1.5	4P (3D)4F	691.4434	-3.454	49100.976	0.5	D6S (3P)4F
685.5646	-0.541	105630.750	2.5	5D (5D)4G	91048.256	1.5	5P (5D)4D	691.4448	-1.341	102030.912	3.5	6S (5D)6D
685.5844	-2.417	105230.290	0.5	5D (5D)4G	90648.217	0.5	5P (5D)6F	691.7730	-3.751	86416.333	3.5	4D (5D)4F
685.6591	-4.863	49506.934	1.5	D6S (3P)4P	64087.418	2.5	4P (3F)4G	691.8962	-3.767	105288.530	1.5	5D (5D)6G
685.7290	-1.424	102543.648	1.5	6S (5D)6D	87964.650	1.5	4SP(5P)6D	692.2030	0.566	104366.820	6.5	5D (5D)6G
685.7844	0.295	105065.630	3.5	5D (5D)6G	90487.810	2.5	5P (5D)6F	692.7847	0.096	105211.140	4.5	5D (5D)4G
685.8753	-2.301	105205.790	2.5	5D (5D)6G	90629.902	1.5	4P (3P)4S	692.7956	-1.643	104828.160	2.5	5D (5D)6D
686.0298	-0.505	104873.230	3.5	5D (5D)4D	90300.625	3.5	5P (5D)6F	692.9629	-0.846	105065.630	3.5	5D (5D)6G
686.1284	-2.316	77861.625	4.5	5S (5D)6D	92432.136	5.5	4SP(5D)6F	693.0338	-3.635	58666.258	3.5	D6S (1G)2G
686.2158	-3.418	77230.900	4.5	D5S2(7S)2H	62662.244	5.5	4P (3H)2I	693.0416	-2.187	105205.790	2.5	5D (5D)6G
686.2526	0.317	104868.500	4.5	5D (5D)6G	90300.625	3.5	5P (5D)6F	693.1354	-3.870	98294.401	5.5	5S (3H)4H
686.2953	-1.266	105205.790	2.5	5D (5D)6G	90638.822	2.5	5P (5D)4D	693.2005	-0.870	105630.750	2.5	5D (5D)4G
686.3713	-3.035	77861.625	4.5	5S (5D)6D	92426.980	4.5	4SP(5G)4F	693.4019	-3.870	78185.030	3.5	D5S2(7S)2G
686.5674	-2.443	80177.975	1.5	5S (5D)4D	94739.170	1.5	4SP(5P)4D	694.0218	-3.289	104705.420	3.5	5D (5D)6D
686.6142	-0.568	105630.750	2.5	5D (5D)4G	91070.547	2.5	5P (5D)4F	694.5832	-3.585	80346.016	0.5	5S (5D)4D
686.6640	-0.626	102030.912	3.5	6S (5D)6D	87471.765	4.5	4SP(5G)6F	694.6624	-3.063	79439.467	3.5	5S (5D)4D
686.7788	-4.261	86599.738	2.5	4D (5D)4F	72043.026	1.5	4P (3D)4P	694.6963	-1.155	105230.290	0.5	5D (5D)4D
686.7958	-2.169	104000.810	3.5	5D (5D)6F	89444.458	2.5	4SP(5P)6P	694.7409	-4.382	105291.010	3.5	4D (3F)4G
686.9236	-2.909	57411.065	2.5	D5S2(7S)4P	71964.710	2.5	4P (3D)4P	694.7520	-3.299	105288.530	1.5	5D (5D)6G
686.9719	-3.886	78577.280	4.5	D5S2(7S)2G	93129.900	3.5	4P (3F)4D	694.8019	-4.053	58666.258	3.5	D6S (1G)2G
687.0725	-2.538	104593.270	5.5	5D (5D)6G	90042.779	4.5	4P (3F)4D	694.8607	-3.155	105288.530	1.5	5D (5D)6G
687.1548	-4.881	84863.351	5.5	4D (5D)4G	70314.604	4.5	4P (3G)2G	694.9566	-1.383	104873.230	3.5	5D (5D)4D
687.1569	-4.831	79439.467	3.5	5S (5D)4D	93988.170	2.5	4SP(5G)4G	694.9954	-4.893	58631.531	4.5	D6S (1G)2G
687.1705	-1.675	105449.540	3.5	5D (5D)4G	90901.124	2.5	5P (5D)4F	695.1426	-1.294	104593.270	5.5	5D (5D)6G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
695.2672	0.063	105449.540	3.5	5D (5D)4G	91070.547	2.5	5P (5D)4F	704.7624	-3.867	102394.718	3.5	6S (5D)4D
695.4860	3.267	105155.090	4.5	5D (3F)4G	92899.200	3.5	5P (5D)4F	704.9231	-0.915	102530.290	0.5	5D (5D)4D
695.5187	-3.673	78525.407	2.5	5S (5D)6D	92899.200	2.5	4F (3F)4D	705.1326	-4.931	86416.333	3.5	4D (5D)4F
695.7284	-3.226	102334.112	2.5	6S (5D)6D	87964.650	1.5	4SP(5P)6D	705.3520	-3.803	78725.790	1.5	5S (5D)6D
695.7551	-3.349	104411.690	4.5	5D (3F)4G	90042.779	4.5	4F (3F)4G	705.5234	-4.330	78525.407	2.5	5S (5D)6D
695.8997	-4.011	105414.180	2.5	4D (3F)4G	91048.256	1.5	5P (5D)4D	705.7954	-1.284	105065.630	3.5	5D (5D)6G
695.9320	-6.252	30388.542	4.5	6S (3G)2G	44753.799	3.5	4P (5D)4F	705.8399	-3.999	104757.110	0.5	5D (5D)6D
695.9865	-3.463	49100.976	0.5	6S (3P)4D	63465.109	1.5	4P (3F)4D	705.9419	-4.684	60445.275	2.5	D5S2(7S)4D
696.3077	-0.257	101698.489	4.5	6S (5D)6D	87340.983	5.5	4SP(5G)6F	705.9783	-1.362	101698.489	4.5	6S (5D)6D
696.3599	-4.949	81639.260	2.5	D5S2(7S)2F	95959.960	2.5	4SP(5P)4D	706.1407	-4.900	83459.670	1.5	4F(5P)4D
696.6773	-4.182	58666.258	3.5	6S (1G)2G	73016.147	3.5	4P (1G)2F	706.1430	-1.516	105205.790	2.5	5D (5D)6G
696.6963	-2.653	50075.910	1.5	6S (3F)4F	64425.408	2.5	4P (3F)2F	706.2634	0.040	104366.820	6.5	5D (5D)6G
696.8104	-3.047	105127.770	2.5	5D (5D)4D	90780.621	3.5	5P (5D)4F	706.7757	-4.928	78185.030	3.5	D5S2(7S)2G
696.9467	-0.425	104411.690	4.5	5D (5D)6D	90067.347	4.5	5P (5D)6F	706.8115	-3.974	78185.030	3.5	D5S2(7S)2G
696.9812	-4.757	105414.180	2.5	4D (3F)4G	91070.547	2.5	5P (5D)4F	706.8407	-2.843	50142.786	2.5	D6S (3F)4F
697.1408	-1.074	104828.160	2.5	5D (5D)6D	90487.810	2.5	5P (5D)6F	706.8877	-2.630	104630.430	1.5	5D (5D)6F
697.2472	-4.558	104380.940	3.5	5D (5D)6F	90042.779	4.5	4P (3F)4G	707.1891	-0.344	105711.730	2.5	5D (5D)6S
697.3279	-4.505	60270.339	3.5	D5S2(7S)4D	74606.841	2.5	4P (3D)2D	707.2566	-1.429	105205.790	2.5	5D (5D)6G
697.3845	-2.656	102394.718	3.5	6S (5D)4D	88059.380	2.5	4SP(5P)6D	707.4409	-4.861	83558.540	0.5	4D (5D)6F
697.5753	-2.592	105230.290	0.5	5D (5D)4D	90898.873	1.5	4P (3P)4P	707.4444	-4.674	104174.270	5.5	4D (3H)4I
697.6397	-4.212	84266.556	3.5	4D (5D)6P	98596.650	4.5	4SP(5D)4F	707.5744	-4.494	50157.452	4.5	D6S (3F)4F
697.8271	-2.415	79885.493	2.5	5S (5D)4D	94211.739	2.5	4SP(5P)4F	707.6588	-2.998	104757.110	0.5	5D (5D)6D
698.1855	-0.987	104705.420	3.5	5D (5D)6D	90386.528	4.5	5P (5D)4F	707.7276	-1.462	104426.460	2.5	5D (5D)6F
698.3561	-7.802	30764.485	3.5	6S (3G)2G	45079.879	2.5	4P (5D)4F	707.7808	-3.380	84266.556	3.5	4D (5D)6P
698.4440	-2.218	104380.940	3.5	5D (5D)6F	90067.347	4.5	5P (5D)6F	707.7864	0.948	102334.112	2.5	6S (5D)6D
698.6149	-4.191	77861.625	4.5	5S (5D)6D	92171.716	4.5	4P (3F)2G	708.4684	-1.951	104411.690	4.5	5D (5D)6D
698.7389	-0.077	104705.420	3.5	5D (5D)6D	90397.868	3.5	5P (5D)4D	708.5775	-1.317	104757.110	0.5	5D (5D)6D
698.7699	-2.355	105205.790	2.5	5D (5D)6G	90898.873	1.5	4F (3P)4P	708.8229	-4.799	108804.667	3.5	5S (3D)4D
698.8647	-4.288	77861.625	4.5	5S (5D)6D	92166.600	5.5	4SP(5G)4H	708.8399	-4.541	104315.370	6.5	4D (3H)2K
698.8798	-2.234	105205.790	2.5	5D (5D)6G	90901.124	2.5	5P (5D)4F	708.8898	-4.347	79885.493	2.5	5S (5D)4D
699.1167	-3.717	84296.830	5.5	4D (5D)6G	98596.650	4.5	4SP(5D)4F	708.9256	-3.444	79885.493	2.5	5S (5D)4D
699.4728	-3.337	77861.625	4.5	5S (5D)6D	92154.165	3.5	4SP(5D)6F	708.9791	-1.963	804387.710	1.5	5D (5D)6D
699.5513	-2.898	78577.280	4.5	D5S2(7S)2G	64286.345	3.5	4F (3F)2F	709.0392	-3.853	101877.975	1.5	5S (5D)4G
699.8416	-1.490	105065.630	3.5	5D (5D)6G	90780.621	3.5	5P (5D)4F	709.1445	-2.925	78185.030	3.5	D5S2(7S)2G
699.9585	-4.722	50142.786	2.5	D6S (3F)4F	64425.408	2.5	4F (3F)2F	709.1445	-2.925	78185.030	3.5	D5S2(7S)2G
700.3454	-1.634	102334.112	2.5	6S (5D)6D	88059.380	2.5	4SP(5P)6D	709.1536	-4.478	78185.030	3.5	D5S2(7S)2G
700.6123	-4.107	84266.556	3.5	4D (5D)6P	98535.850	3.5	4SP(5D)4F	709.3697	-4.335	103983.510	3.5	5S (3G)2G
701.2574	-4.799	103983.510	3.5	5S (3G)2G	89727.342	2.5	4P (3F)4G	709.3962	-0.410	104873.230	3.5	5D (5D)4D
702.0401	-1.795	105288.530	1.5	5D (5D)6G	91048.256	1.5	5P (5D)4D	709.4166	-4.003	105288.530	1.5	5D (5D)6D
702.1254	-4.951	84266.556	3.5	4D (5D)6P	98505.100	2.5	4SP(5D)4D	709.5888	-2.001	105288.530	1.5	5D (5D)6G
702.3168	-1.877	104828.160	2.5	5D (5D)6D	90593.497	1.5	5P (5D)6F	709.6231	-4.323	84266.556	3.5	4D (5D)6P
702.3294	-1.718	104873.230	3.5	5D (5D)4D	90901.124	2.5	5P (5D)4F	709.6344	-0.484	104868.500	4.5	5D (5D)6G
702.6014	-0.350	105127.770	2.5	5D (5D)4D	90638.822	2.5	5P (5D)4D	709.7034	-4.669	48039.090	2.5	D7 (5D)2D
702.6637	-4.442	77861.625	4.5	5S (5D)6D	90898.873	1.5	4F (3P)4P	710.0156	-0.755	104380.940	3.5	5D (5D)6F
702.7087	-0.713	101698.489	4.5	6S (5D)6D	92089.260	3.5	4SP(5G)4H	710.0495	-1.937	105288.530	1.5	5D (5D)6G
702.7126	-1.458	105127.770	2.5	5D (5D)4D	87471.765	4.5	4SP(5G)6F	710.0560	-2.729	105127.770	2.5	5D (5D)4D
703.0181	-3.592	105291.010	3.5	4D (3F)4G	90901.124	2.5	5P (5D)4F	710.1679	-3.985	78525.407	2.5	5S (5D)6D
703.1407	-2.413	105288.530	1.5	5D (5D)6G	91070.547	2.5	5P (5D)4F	710.2751	-4.894	86599.738	2.5	4D (5D)4F
703.1592	-2.201	104705.420	3.5	5D (5D)6D	91070.547	2.5	5P (5D)4F	710.3585	-3.913	50212.826	2.5	D6S (3P)4P
703.4080	-4.814	50212.826	2.5	D6S (3F)4P	64425.408	2.5	4F (3F)2F	710.5604	-4.578	84938.180	1.5	4D (5D)6G
703.6971	0.357	104593.270	5.5	5D (5D)6G	90386.528	4.5	5P (5D)4F	710.5931	-4.970	84527.778	4.5	4D (5D)6G
703.7689	-3.686	105414.180	2.5	4D (3F)4G	91208.887	1.5	5P (5D)4F	710.7080	-1.429	104705.420	3.5	5D (5D)6D
703.9162	-3.687	100749.810	2.5	5S (3F)2F	86547.490	2.5	4P (1F)2F	710.8182	-2.379	84326.912	2.5	4D (5D)6P
704.0317	-2.074	104411.690	4.5	5D (5D)6D	90211.700	5.5	4P (3F)4G	710.9105	-4.519	78237.685	3.5	5S (5D)6D
704.1176	-2.624	104828.160	2.5	5D (5D)6D	90629.902	1.5	4P (3P)4S	711.0306	-4.929	103950.590	4.5	5D (5D)6F
704.5602	-0.781	104828.160	2.5	5D (5D)6D	90638.822	2.5	5P (5D)4D	711.1257	-8.904	30388.542	4.5	D6S (3G)2G
704.5624	-3.088	78237.685	3.5	5S (5D)6D	92426.980	4.5	4SP(5G)4F	711.1820	-0.454	105127.770	2.5	5D (5D)4D
704.6392	-3.785	79885.493	2.5	5S (5D)4D	94073.240	3.5	4SP(5G)4G	711.2636	-1.879	105630.750	2.5	5D (5D)4G
								711.4183	-4.106	49506.934	1.5	D6S (3P)4P

WL(NM)	LOGG	EVEN E	J	L	ODD E	J	L	ODD E	J	L	LOGG	WL(NM)	L	J	EVEN E	J	L	ODD E	J	L			
711.6396	-2.030	79439.467	3.5	5S (5D)4D	93487.650	3.5	4P (3F)4F	717.4697	-4.062	78237.685	3.5	5S (5D)6D	92171.716	4.5	4P (3F)2G	717.4697	-4.062	78237.685	3.5	5S (5D)6D	92171.716	4.5	4P (3F)2G
711.6723	-3.011	104828.160	2.5	5D (5D)6D	90780.621	3.5	5P (5D)4F	717.4989	-0.680	104000.810	3.5	5D (5D)6F	90067.347	4.5	5P (5D)6F	717.4989	-0.680	104000.810	3.5	5D (5D)6F	90067.347	4.5	5P (5D)6F
711.7952	-1.343	79439.467	3.5	5S (5D)4D	93484.580	4.5	4P (3F)4F	717.7140	-1.195	104828.160	2.5	5D (5D)6D	90898.873	1.5	4P (3P)4P	717.7140	-1.195	104828.160	2.5	5D (5D)6D	90898.873	1.5	4P (3P)4P
711.9810	-4.070	108804.667	3.5	5S (3D)4D	94763.219	3.5	4SP (5D)6P	717.8300	-1.738	104828.160	2.5	5D (5D)6D	90970.124	2.5	5P (5D)4D	717.8300	-1.738	104828.160	2.5	5D (5D)6D	90970.124	2.5	5P (5D)4D
712.1633	-3.343	105205.790	2.5	5D (5D)6G	91167.937	3.5	5P (5D)6P	717.9192	-4.433	84844.834	2.5	4D (5D)6G	89770.140	1.5	4SP (5D)4D	717.9192	-4.433	84844.834	2.5	4D (5D)6G	89770.140	1.5	4SP (5D)4D
712.2100	-1.462	104630.430	1.5	5D (5D)6P	90593.497	1.5	5P (5D)6F	717.9453	-1.000	104705.420	3.5	5D (5D)6D	90780.621	3.5	5P (5D)4F	717.9453	-1.000	104705.420	3.5	5D (5D)6D	90780.621	3.5	5P (5D)4F
712.2353	-3.784	78237.685	3.5	5S (5D)6D	92274.120	2.5	4P (3P)4P	718.1041	-4.236	78237.685	3.5	5S (5D)6D	92647.510	1.5	4P (3F)4D	718.1041	-4.236	78237.685	3.5	5S (5D)6D	92647.510	1.5	4P (3F)4D
712.3534	-4.884	83136.487	3.5	4D (5D)6F	69102.380	2.5	4SP (5S)4P	718.1232	-4.094	31368.450	0.5	D6S (3D)4D	45289.801	1.5	4P (3F)4F	718.1232	-4.094	31368.450	0.5	D6S (3D)4D	45289.801	1.5	4P (3F)4F
712.3708	-3.437	80177.975	1.5	5S (5D)4D	94211.739	2.5	4SP (5P)4P	718.2505	-2.405	105127.770	2.5	5D (5D)4D	91208.887	1.5	5P (3D)4F	718.2505	-2.405	105127.770	2.5	5D (5D)4D	91208.887	1.5	5P (3D)4F
712.4253	-0.561	105230.290	0.5	4D (5D)6F	69426.980	0.5	4SP (5S)4P	718.3152	-3.979	78237.685	3.5	5S (5D)6D	90339.480	0.5	4P (3F)4P	718.3152	-3.979	78237.685	3.5	5S (5D)6D	90339.480	0.5	4P (3F)4P
712.5343	-0.362	104426.460	2.5	5D (5D)4D	91199.746	0.5	5P (5D)4D	718.3745	-3.752	104705.420	3.5	5D (5D)6D	92154.165	3.5	4SP (3D)6F	718.3745	-3.752	104705.420	3.5	5D (5D)6D	92154.165	3.5	4SP (3D)6F
712.6335	-2.561	104426.460	2.5	5D (5D)6F	90397.868	3.5	5P (5D)4D	718.6342	-3.438	84845.198	3.5	4D (5D)4D	98596.460	4.5	4SP (5D)4F	718.6342	-3.438	84845.198	3.5	4D (5D)4D	98596.460	4.5	4SP (5D)4F
712.6763	-4.572	84326.912	2.5	4D (5D)6P	98354.660	2.5	4SP (5D)4F	718.8223	-3.651	103950.590	4.5	5D (5D)6F	90042.779	4.5	4P (3F)4G	718.8223	-3.651	103950.590	4.5	5D (5D)6F	90042.779	4.5	4P (3F)4G
712.7441	-0.612	103950.590	4.5	5D (5D)6F	98924.175	5.5	5P (3D)4F	719.2636	-3.049	84870.863	2.5	4D (5D)4D	98770.140	1.5	4SP (3D)4D	719.2636	-3.049	84870.863	2.5	4D (5D)4D	98770.140	1.5	4SP (3D)4D
712.7945	-3.362	78577.280	4.5	D5S2(7S)2G	92602.703	3.5	4P (3F)2G	719.2636	-3.049	84870.863	2.5	4D (5D)4D	98770.140	1.5	4SP (3D)4D	719.2636	-3.049	84870.863	2.5	4D (5D)4D	98770.140	1.5	4SP (3D)4D
712.8077	-0.688	104411.690	4.5	5D (5D)6D	90386.528	4.5	5P (5D)4F	719.3246	-2.641	50142.786	2.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G	719.3246	-2.641	50142.786	2.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G
712.9988	-0.629	105230.290	0.5	5D (5D)4D	91208.887	1.5	5P (5D)4F	719.3456	-2.887	105065.630	3.5	5D (5D)6G	91167.937	3.5	5P (3D)6P	719.3456	-2.887	105065.630	3.5	5D (5D)6G	91167.937	3.5	5P (3D)6P
713.0562	-8.432	30764.485	3.5	D6S (3G)2G	44784.761	2.5	4P (5D)4D	719.5461	-4.091	103936.600	5.5	5D (5D)6F	90042.779	4.5	4P (3F)4G	719.5461	-4.091	103936.600	5.5	5D (5D)6F	90042.779	4.5	4P (3F)4G
713.1146	-3.842	58631.531	4.5	D6S (1G)2G	72650.658	4.5	4P (3D)4F	719.5819	-1.433	104380.940	3.5	5D (5D)6F	90487.810	2.5	5P (3D)6F	719.5819	-1.433	104380.940	3.5	5D (5D)6F	90487.810	2.5	5P (3D)6F
713.3845	-2.758	104411.690	4.5	5D (5D)6D	90397.868	3.5	5P (5D)4D	720.0844	-4.511	105157.452	4.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G	720.0844	-4.511	105157.452	4.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G
713.4557	0.033	103936.600	5.5	5D (5D)6F	89924.175	5.5	5P (5D)6F	720.0943	-0.465	103950.590	4.5	5D (5D)6F	90067.347	4.5	5P (3D)6P	720.0943	-0.465	103950.590	4.5	5D (5D)6F	90067.347	4.5	5P (3D)6P
713.5024	-2.798	50075.910	1.5	D6S (3F)4F	64087.418	2.5	4P (3F)4G	720.0972	-4.474	79439.467	3.5	5S (5D)6D	92154.165	3.5	4SP (3D)6F	720.0972	-4.474	79439.467	3.5	5S (5D)6D	92154.165	3.5	4SP (3D)6F
713.5095	-4.904	84326.912	2.5	4D (5D)6P	98338.280	1.5	4SP (5P)4S	720.3096	-4.714	78237.685	3.5	5S (5D)6D	92116.780	4.5	4SP (5G)4H	720.3096	-4.714	78237.685	3.5	5S (5D)6D	92116.780	4.5	4SP (5G)4H
713.6163	-3.775	100492.020	3.5	5S (3F)2F	86482.750	3.5	4P (1F)2F	720.5532	-3.538	105449.540	3.5	5D (5D)4G	91575.139	2.5	5P (3D)6F	720.5532	-3.538	105449.540	3.5	5D (5D)4G	91575.139	2.5	5P (3D)6F
713.6774	-4.100	84527.778	4.5	4D (5D)6G	98535.850	3.5	4SP (5D)4F	720.8207	-1.717	103936.600	5.5	5D (5D)6F	90067.347	4.5	5P (3D)6F	720.8207	-1.717	103936.600	5.5	5D (5D)6F	90067.347	4.5	5P (3D)6F
713.7777	-4.773	83308.194	2.5	4D (5D)6F	69302.090	1.5	4SP (5S)4P	720.8723	-0.213	105711.730	2.5	5D (5D)6S	91843.470	1.5	5P (5D)6P	720.8723	-0.213	105711.730	2.5	5D (5D)6S	91843.470	1.5	5P (5D)6P
714.0619	-2.312	104630.430	1.5	5D (5D)6P	90629.902	1.5	4P (3P)4S	721.1171	-4.254	84326.912	2.5	4D (5D)6D	94031.378	0.5	4SP (5D)6D	721.1171	-4.254	84326.912	2.5	4D (5D)6D	94031.378	0.5	4SP (5D)6D
714.1428	-2.529	103118.400	1.5	6S (5D)4D	89119.457	2.5	5P (5D)6D	721.1681	-4.670	86124.301	4.5	4D (5D)4D	72261.729	5.5	4P (1G)2H	721.1681	-4.670	86124.301	4.5	4D (5D)4D	72261.729	5.5	4P (1G)2H
714.2469	-1.887	105205.790	2.5	5D (5D)6G	91208.887	1.5	5P (5D)4F	721.2206	-4.896	102584.963	5.5	5S (3G)4G	88723.400	4.5	5P (3D)6D	721.2206	-4.896	102584.963	5.5	5S (3G)4G	88723.400	4.5	5P (3D)6D
714.3331	-1.074	104588.710	1.5	5D (5D)6D	90593.497	1.5	5P (5D)6F	721.3937	-7.729	104757.110	0.5	5D (5D)6D	90988.873	1.5	4P (3F)4P	721.3937	-7.729	104757.110	0.5	5D (5D)6D	90988.873	1.5	4P (3F)4P
714.3398	-1.056	105065.630	3.5	5D (5D)6G	91070.547	2.5	5P (5D)4F	721.6454	-2.812	80177.975	1.5	5S (5D)4D	94031.378	0.5	4SP (5D)6D	721.6454	-2.812	80177.975	1.5	5S (5D)4D	94031.378	0.5	4SP (5D)6D
714.3740	-1.665	104380.940	3.5	5D (5D)6F	90386.528	4.5	5P (5D)4F	721.6626	-4.213	50187.813	3.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G	721.6626	-4.213	50187.813	3.5	D6S (3F)4F	64040.886	3.5	4P (3F)4G
714.5172	-3.181	104630.430	1.5	5D (5D)6P	90638.822	2.5	5P (5D)4D	721.6680	-4.996	104064.670	6.5	4D (3H)4I	90211.700	5.5	4P (3F)4G	721.6680	-4.996	104064.670	6.5	4D (3H)4I	90211.700	5.5	4P (3F)4G
714.6343	-4.7																						

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
725.0876	-1.958	104426.460	2.5	5D (5D)6F	90638.822	2.5	5P (5D)4D	731.5957	-4.082	84870.863	2.5	4D (5D)4D
725.1064	-1.693	105630.750	2.5	5D (5D)4G	91843.470	1.5	5P (5D)6P	731.7361	-2.704	80177.975	1.5	5S (5D)4D
725.1104	-2.773	103118.400	1.5	6S (5D)4D	89331.195	1.5	5P (5D)6D	731.8485	-4.909	84844.834	2.5	4D (5D)6G
725.4345	-2.854	78237.685	3.5	5S (5D)6D	92018.729	2.5	4SP(5D)6F	731.8508	-0.573	104828.160	2.5	5D (5D)6D
725.4791	-1.319	102394.718	3.5	6S (5D)4D	88614.520	4.5	4SP(5D)6F	731.9677	-4.984	47674.721	1.5	D7 (5D)2D
725.4945	-3.592	104828.160	2.5	5D (5D)6D	91048.256	1.5	5P (5D)4D	732.0654	-3.437	31387.948	2.5	D6S (3D)4D
726.2251	-3.147	49506.934	1.5	D6S (3P)4P	63272.976	2.5	4P (3F)4P	732.2378	-3.519	80177.975	1.5	5S (5D)4D
726.3278	-2.258	85728.806	1.5	4D (5D)4S	71964.710	2.5	4P (3F)4P	732.2378	-3.519	80177.975	1.5	5S (5D)4D
726.4924	-2.472	50187.813	3.5	D6S (3F)4F	63948.790	4.5	4P (3F)4G	732.4008	-1.396	103950.590	4.5	5D (5D)6F
726.5639	-2.733	78185.030	3.5	D5S2(7S)2G	64425.408	2.5	4P (3F)2F	732.5581	-2.051	103118.400	1.5	6S (5D)4D
726.6700	-1.992	104828.160	2.5	5D (5D)6D	91070.547	2.5	5P (5D)4F	732.6223	-2.066	104426.460	2.5	5D (5D)6F
726.6996	-3.850	78525.407	2.5	5S (5D)6D	92282.460	3.5	4SP(5G)4F	732.9491	-3.054	103285.694	0.5	6S (5D)4D
727.1131	-4.354	104588.710	1.5	5D (5D)6D	90839.480	0.5	4P (3P)4P	733.2115	-0.824	104705.420	3.5	5D (5D)6D
727.1404	-3.548	78525.407	2.5	5S (5D)6D	92274.120	2.5	4P (3P)4P	733.2457	-2.829	84870.863	2.5	4D (5D)4D
727.3190	-3.034	78577.280	4.5	D5S2(7S)2G	64831.943	4.5	4P (3F)2G	733.3219	-4.204	78725.790	1.5	5S (5D)6D
727.4200	-2.710	79439.467	3.5	5S (5D)4D	65696.038	4.5	4P (3G)4G	733.3413	-1.283	104120.270	2.5	5D (5D)6P
727.4894	-2.125	104380.940	3.5	5D (5D)6F	90638.822	2.5	5P (5D)4D	733.4161	-2.379	104411.690	4.5	5D (5D)6P
727.6603	-1.137	103950.590	4.5	5D (5D)6F	90211.700	5.5	4P (3F)4G	733.4386	-2.632	105205.790	2.5	5D (5D)6G
727.9533	-3.003	80346.016	0.5	5S (5D)4D	66612.656	1.5	4P (3G)4F	733.4630	-2.863	58631.531	4.5	D6S (1G)2G
727.9566	-2.155	84863.351	5.5	4D (5D)4G	98596.650	4.5	4SP(5D)4F	733.5405	-2.483	78525.407	2.5	5S (5D)6D
728.0489	-1.668	104630.430	1.5	5D (5D)6P	90898.873	1.5	4P (3P)4P	733.8791	-4.845	105711.730	2.5	5D (5D)6S
728.1683	-1.902	104630.430	1.5	5D (5D)6P	90901.124	2.5	5P (5D)4P	734.0514	-2.888	104828.160	2.5	5D (5D)6D
728.2323	-4.505	49100.976	0.5	D6S (3P)4P	62829.075	0.5	4P (3P)4D	734.3205	-1.139	104000.810	3.5	5D (5D)6P
728.2953	-4.720	78725.790	1.5	5S (5D)6D	92453.460	0.5	4P (3F)4D	734.5802	-4.723	78843.992	0.5	5S (5D)6D
728.3953	-4.975	108804.667	3.5	5S (3D)4D	95079.640	3.5	4P (3F)2F	734.8701	-4.355	78725.790	1.5	5S (5D)6D
728.4021	-0.492	103936.600	5.5	5D (5D)6F	90211.700	5.5	4P (3F)4G	734.9326	-1.315	104000.810	3.5	5D (5D)6P
728.4263	-4.473	100492.020	3.5	5S (3F)2F	86767.577	2.5	4P (3P)4D	734.9750	-0.963	104830.940	3.5	5S (5D)4F
728.5347	-1.124	104120.270	2.5	5D (5D)6P	90397.868	3.5	5P (5D)4D	735.0744	-1.658	79885.493	2.5	5D (5D)4D
728.5805	-2.903	85048.602	1.5	4D (5D)4D	98770.140	1.5	4SP(5D)4D	735.2359	-3.056	85172.809	0.5	4D (5D)4D
728.6360	-4.448	58631.531	4.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F	735.2716	-4.808	105763.270	5.5	4D (3F)2H
728.7225	-2.496	50157.452	4.5	D6S (3F)4F	63876.317	5.5	4P (3F)4G	735.3925	-3.503	78577.280	4.5	D5S2(7S)2G
728.7400	-4.650	103608.909	4.5	5S (3G)2G	89890.373	3.5	4P (3F)4G	735.5484	-3.254	105763.270	5.5	4D (3F)2H
728.9045	-3.820	31364.440	1.5	D6S (3D)4D	45079.879	2.5	4P (5D)4F	735.6884	-3.463	78725.790	1.5	5S (5D)6D
728.9385	-2.656	105630.750	2.5	5D (5D)4D	91915.950	1.5	4SP(5D)6F	735.7261	-4.790	87985.628	2.5	4D (5D)4P
729.2532	-4.055	103751.660	5.5	4D (3H)4H	90042.779	4.5	4P (3F)4F	736.0564	-2.242	104630.430	1.5	5D (5D)6P
729.2546	-3.974	104757.110	0.5	5D (5D)6D	91048.256	1.5	5P (5D)4D	736.5943	-4.463	58666.258	3.5	D6S (1G)2G
729.3995	-2.196	84685.198	3.5	4D (5D)4D	98391.330	3.5	4SP(5D)4P	736.9269	-3.691	103608.909	4.5	5S (3G)2G
729.4441	-0.924	104873.230	3.5	5D (5D)4D	91167.937	3.5	5P (5D)6P	737.0392	-1.025	103950.590	4.5	5D (5D)6F
729.4501	-3.351	78577.280	4.5	D5S2(7S)2G	92282.460	3.5	4SP(5G)4F	737.0506	-3.642	78525.407	2.5	5S (5D)6D
729.6960	-2.117	104868.500	4.5	5D (5D)6G	91167.937	3.5	5P (5D)6P	737.1311	-4.780	100492.020	3.5	5S (3F)2F
729.7161	-1.260	104000.810	3.5	5D (5D)6P	90300.625	3.5	5P (5D)6F	737.1506	-3.642	78525.407	2.5	5S (5D)6D
729.7190	-3.339	78525.407	2.5	5S (5D)6D	92225.538	1.5	5P (5D)4P	737.2664	-2.348	104630.430	1.5	5D (5D)6P
730.0989	-2.788	105711.730	2.5	5D (5D)6S	92018.729	2.5	4SP(5D)6F	737.2705	-3.710	85728.806	1.5	4D (5D)4S
730.2677	-3.304	104588.710	1.5	5D (5D)6D	90898.873	1.5	4P (3P)4P	737.3925	-3.778	105711.730	2.5	5D (5D)6S
730.3878	-2.070	104588.710	1.5	5D (5D)6D	90901.124	2.5	5P (5D)4P	737.4034	-3.764	104757.110	0.5	5D (5D)6D
730.4842	-2.623	85728.806	1.5	4D (5D)4S	72043.026	1.5	4P (3D)4P	737.5660	-1.835	103950.590	4.5	5D (5D)6F
730.4849	-4.748	58666.258	3.5	D6S (1G)2G	72352.024	3.5	4P (3D)4F	737.6609	-1.491	105127.770	2.5	5D (5D)4D
730.5065	-2.631	80346.016	0.5	5S (5D)4D	94031.378	0.5	4SP(5D)6D	737.8002	-1.341	103936.600	5.5	5D (5D)6F
730.5625	-3.496	103751.660	5.5	4D (3H)4H	90067.347	4.5	5P (5D)6F	737.8951	-3.268	78725.790	1.5	5S (5D)6D
730.6650	-7.121	30764.485	3.5	D6S (3G)2G	44446.878	3.5	4P (5D)4D	737.9009	-4.916	104757.110	0.5	5D (5D)6D
730.7583	-4.145	84710.685	3.5	4D (5D)6G	98391.330	3.5	4SP(5D)4D	738.2844	-1.913	102394.718	3.5	6S (5D)4D
730.8073	-3.248	31364.440	1.5	D6S (3D)4D	45044.168	1.5	4P (5D)4D	738.3243	-2.333	104588.710	1.5	5D (5D)6D
730.9924	-4.026	103600.440	6.5	4D (3H)4H	89924.175	5.5	5P (5D)6F	738.3512	-2.970	103751.660	5.5	4D (3H)4H
731.0216	-3.618	31368.450	0.5	D6S (3D)4D	45044.168	1.5	4P (5D)4D	738.3763	-4.353	78577.280	4.5	D5S2(7S)2G
731.1166	-2.244	103118.400	1.5	6S (5D)4D	89444.458	2.5	4SP(5D)6P	738.4863	-1.041	104705.420	3.5	5D (5D)6D
731.1268	-1.749	102802.312	2.5	6S (5D)4D	89128.561	3.5	4SP(5P)6P	738.6917	-4.915	73395.930	2.5	D5S2(7S)4F
731.2569	-1.648	102394.718	3.5	6S (5D)4D	88723.400	4.5	5P (5D)6D	739.0266	-2.220	104426.460	2.5	5D (5D)6F
731.3562	-3.330	84685.198	3.5	4D (5D)4D	98354.660	2.5	4SP(5D)4F	739.0710	-1.358	104120.270	2.5	5D (5D)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
739.1496	-2.321	104426.460	2.5	5D (5D)6F	90901.124	2.5	5P (5D)4P	746.5901	-1.957	704558.407	2.5	5S (5D)6D	91915.950	1.5	4SP(5D)6F
739.1457	-2.818	84870.863	2.5	4D (5D)4D	98391.330	3.5	4SP(5D)4D	746.6781	-3.356	104588.710	1.5	5D (5D)6D	91199.746	0.5	5P (5D)4D
739.5418	-3.232	104588.710	1.5	5D (5D)6D	91070.547	2.5	5P (5D)4F	746.6906	-3.741	103600.440	6.5	4D (3H)4H	90211.700	5.5	4P (3F)4G
739.6695	-3.060	85728.806	1.5	4D (5D)4S	72212.978	0.5	4D (3D)4F	746.7977	-3.147	105230.290	0.5	5D (5D)6D	91843.470	1.5	5P (5D)6P
739.8243	-1.378	104000.810	3.5	5P (5D)6P	90487.810	2.5	5P (5D)6F	747.0757	-4.739	105711.730	2.5	5D (5D)6F	92329.890	2.5	4SP(5G)4F
739.9503	-4.825	85679.698	2.5	4D (5D)4G	72168.998	1.5	4P (3D)4F	747.0921	-2.886	78843.992	0.5	5S (5D)6D	92225.538	1.5	5P (5D)4P
739.9957	-1.900	79885.493	2.5	5S (5D)4D	93395.360	2.5	4P (3F)4F	747.1883	-2.559	104588.710	1.5	5D (5D)6D	91208.782	1.5	5P (5D)4F
740.0867	-2.708	79885.493	2.5	5S (5D)4D	66377.283	3.5	4P (3C)4F	747.2025	-4.084	105230.290	0.5	5D (5D)4D	91850.722	0.5	4SP(5D)6F
740.0909	-3.821	79439.467	3.5	5S (5D)4D	65931.334	3.5	4P (3G)4G	747.2787	-2.935	104426.460	2.5	5D (5D)6F	91048.256	1.5	5P (5D)4D
740.5280	-3.605	105589.420	3.5	4D (3F)4H	92089.260	3.5	4SP(5G)4H	747.6451	-4.818	73395.930	2.5	D5S2(7S)4F	86767.577	2.5	4P (3P)4D
740.5506	-3.000	78725.790	1.5	5S (5D)6D	92225.538	1.5	5P (5D)4F	747.9694	-3.888	13387.948	2.5	D6S (3D)4D	44753.799	3.5	4P (5D)4F
740.5994	-4.369	58631.531	4.5	D6S (1G)2G	72130.390	4.5	4P (1G)2H	748.0096	-2.963	103751.660	5.5	4D (3H)4H	90386.528	4.5	5P (5D)4F
740.6382	-4.526	85462.862	3.5	4D (5D)4G	71964.710	2.5	4P (3D)4P	748.1184	-3.118	79885.493	2.5	5S (5D)4D	66522.304	2.5	4P (3G)4F
740.6867	-4.561	105711.730	2.5	5S (5D)6D	92216.320	1.5	4SP(5D)6D	748.1670	-2.769	105205.790	2.5	5D (5D)6P	91843.470	1.5	5P (5D)6P
740.8483	-3.473	80346.016	0.5	5S (5D)4D	93840.340	1.5	4SP(5D)6D	748.1856	-2.095	104000.810	3.5	5D (5D)6P	90638.822	2.5	5P (5D)4D
740.9033	-2.731	78525.407	2.5	5S (5D)6D	92018.729	2.5	4SP(5D)6F	748.2652	-4.718	47674.721	1.5	D7 (5D)2D	61035.287	0.5	4P (3P)4P
740.9506	-2.733	103118.400	1.5	6S (5D)4D	89625.940	1.5	4SP(5P)6P	748.2812	-4.999	105449.540	3.5	5D (5D)6D	92089.260	3.5	4SP(5G)4H
741.0587	-1.461	105065.630	3.5	5D (5D)6P	91575.139	2.5	5P (5D)6P	748.2920	-1.060	98568.912	3.5	5S (3H)4H	111929.290	2.5	290DD
741.0655	-3.467	104120.270	2.5	5D (5D)6P	90629.902	1.5	4P (3P)4S	748.4171	-1.856	102802.312	2.5	6S (5D)4D	89444.458	2.5	4SP(5P)6P
741.1696	-4.567	85728.806	1.5	4D (5D)4S	72238.513	2.5	4P (3D)4F	748.4857	-3.204	103630.750	2.5	5D (5D)4G	92274.120	2.5	4P (3P)4P
741.1385	-0.804	101698.489	4.5	6S (5D)6D	88209.450	3.5	4SP(5P)6D	748.5259	-1.603	104426.460	2.5	5D (5D)6F	91070.547	2.5	5P (5D)4F
741.2950	-2.986	105711.730	2.5	5D (5D)6S	92225.538	1.5	5P (5D)4F	748.6825	-3.079	105711.730	2.5	5D (5D)6S	92358.610	1.5	4SP(5G)4F
741.4266	-2.726	84870.863	2.5	4D (5D)4D	98354.660	2.5	4SP(5D)4F	748.7949	-2.362	85184.734	4.5	4D (5D)4G	98535.850	3.5	4SP(5D)4F
741.4387	-3.885	50075.910	1.5	D6S (3F)4F	63559.488	0.5	4P (3F)4D	748.9934	-3.724	103630.750	2.5	5D (5D)4G	92282.460	3.5	4SP(5G)4F
741.5558	-2.805	104120.270	2.5	5D (5D)6P	90638.822	2.5	5P (5D)4D	749.1442	-4.901	81734.750	3.5	D5S2(7S)2F	95209.640	3.5	4P (3F)2F
741.6036	-0.813	102334.112	2.5	6S (5D)6D	88853.533	3.5	5P (5D)6D	749.4385	-1.264	104120.270	2.5	5D (5D)6P	90780.621	3.5	5P (5D)4F
741.6356	-1.741	104380.940	3.5	5D (5D)6F	90901.124	2.5	5P (5D)4P	749.5619	-0.067	78237.685	3.5	5S (5D)6D	91575.139	1.5	5P (5D)6P
741.7548	-3.871	60445.275	2.5	D5S2(7S)4D	46967.444	2.5	4P (5D)4P	749.6718	-0.765	102666.694	0.5	6S (5D)6D	89331.195	1.5	5P (5D)6D
741.8234	-4.817	105630.750	2.5	5D (5D)4G	92154.165	3.5	4SP(5D)6F	750.2669	-3.614	103414.180	2.5	4D (3F)4G	92089.260	3.5	4SP(5G)4H
742.1245	-1.445	102802.312	2.5	6S (5D)6D	89331.195	1.5	5P (5D)6D	750.4132	-3.425	50142.786	2.5	D6S (3F)4F	63465.109	1.5	4P (3F)4D
742.1439	-3.602	78843.992	0.5	5S (5D)6D	92314.758	0.5	5P (5D)4P	750.4235	-4.018	49506.934	1.5	D6S (3P)4P	62829.075	0.5	4P (3P)4D
742.2948	-7.937	30764.485	3.5	D6S (3G)2G	44232.512	4.5	4P (5D)4F	750.4478	-7.707	23787.598	1.5	D6S (3P)2P	39109.307	0.5	4P (5D)6D
742.3183	-2.743	78577.280	4.5	D5S2(7S)2G	65109.679	3.5	4P (3F)2G	750.6532	-0.483	78525.407	2.5	5S (5D)6D	91843.470	1.5	5P (5D)6P
742.3284	-4.031	84870.863	2.5	4D (5D)4D	98338.280	1.5	4SP(5P)4S	750.8090	-4.081	103589.420	3.5	4D (3F)4H	92274.120	2.5	4P (3P)4P
742.5095	-3.522	58666.258	3.5	D6S (1G)2G	72130.390	4.5	4P (1G)2H	750.8631	-4.286	105230.290	0.5	5D (5D)4D	91915.950	1.5	4SP(5D)6F
742.9308	-2.865	85048.602	1.5	4D (5D)4D	98505.100	2.5	4SP(5D)4D	751.0858	-4.340	104380.940	3.5	5D (5D)6F	91070.547	2.5	5P (5D)4F
743.5628	-3.371	105288.530	1.5	5D (5D)6G	62962.205	1.5	4P (3P)4D	751.2048	-4.050	103608.909	4.5	5S (3G)2G	90300.625	3.5	5P (5D)6F
743.6775	-2.942	79885.493	2.5	5S (5D)4D	93328.480	1.5	4P (3F)4F	751.2484	-1.372	102030.912	3.5	6S (5D)6D	88723.400	4.5	5P (5D)6F
743.9641	-3.441	105288.530	1.5	5D (5D)6G	91850.722	0.5	4SP(5D)6F	751.2796	-4.237	103589.420	3.5	4D (3F)4H	92282.460	3.5	4SP(5G)4F
744.1055	-4.675	105589.420	3.5	4D (3F)4H	92274.120	2.5	4P (3P)4P	751.3162	-0.195	77861.625	4.5	5S (5D)6D	91167.937	3.5	5P (5D)6P
744.1085	-4.996	105524.461	4.5	4D (3F)4H	92154.165	3.5	4SP(5D)6F	751.3305	-3.519	85048.602	1.5	4D (5D)4D	98354.660	2.5	4SP(5D)4F
744.3517	-3.122	104630.430	1.5	5D (5D)6P	92089.260	3.5	4SP(5G)4H	751.5832	-3.634	31483.176	3.5	D6S (3D)4D	44784.761	2.5	4P (5D)4D
744.3587	-3.487	105449.540	3.5	5D (5D)4G	92018.729	2.5	4SP(5D)6F	751.6241	-2.332	105630.750	2.5	5D (5D)4G	92329.890	2.5	4SP(5G)4F
744.5786	-2.695	79439.467	3.5	5S (5D)4D	66012.750	4.5	4P (3C)4F	751.7239	-3.457	85728.806	1.5	4D (5D)4S	72429.711	0.5	4P (3D)4D
744.7187	-0.661	102543.648	1.5	6S (5D)6D	89119.457	2.5	5P (5D)4D	751.7806	-0.322	1046873.230	3.5	5D (5D)4D	91575.139	2.5	5P (5D)6P
744.8657	-2.185	104630.430	1.5	5D (5D)6P	91208.887	1.5	5P (5D)4F	751.9342	-4.222	103449.540	3.5	5D (5D)4G	92154.165	3.5	4SP(5D)6F
744.9335	-3.583	31364.440	1.5	D6S (3D)4D	44784.761	2.5	4P (5D)4D	752.0720	-2.465	78725.790	1.5	5S (5D)6D	92018.729	2.5	4SP(5D)6F
745.1299	-0.548	88157.116	1.5	4D (5D)4P	101573.900	1.5	4SP(5D)4P	752.2565	-3.187	85048.602	1.5	4D (5D)4D	98338.280	1.5	4SP(5P)4S
745.1517	-0.748	102030.912	3.5	6S (5D)6D	86614.520	4.5	4SP(5P)6D	752.5611	-1.297	105127.770	2.5	5D (5D)4D	91843.470	1.5	5P (5D)6P
745.4003	-3.126	85184.734	4.5	4D (5D)4G	98596.650	4.5	4SP(5D)4F	753.0735	-0.973	102394.718	3.5	6S (5D)4D	66119.457	2.5	5P (5D)6D
745.6358	-3.518	105524.461	4.5	4D (3F)4H	92116.780	4.5	4SP(5G)4H	753.2110	-4.243	79885.493	2.5	5S (5D)4D	62612.656	1.5	4P (3G)4F
745.6826	-4.861	81639.260	2.5	D5S2(7S)2F	95046.100	2.5	4P (3F)2F	753.2506	-1.718	103630.750	2.5	5D (5D)4G	92358.610	1.5	4SP(5G)4F
745.7731	-4.467	105630.750	2.5	5D (5D)4G	92225.538	1.5	5P (5D)4P	753.3367	-4.517	31483.176	3.5	D6S (3D)4D	44753.799	3.5	4P (5D)4F
746.0665	-3.263	81639.260	2.5	D5S2(7S)2F	95039.200	1.5	4P (3P)2P	753.5903	-1.154	102394.718	3.5	6S (5D)4D	89128.561	3.5	4SP(5P)6P
746.2407	-2.964	31387.948	2.5	D6S (3D)4D	44784.761	2.5	4P (5D)4D	753.9394	-4.669	105414.180	2.5	4D (3F)4G	92154.165	3.5	4SP(5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
753.9669	-3.321	105589.420	3.5	4D (3F)4H	92329.890	2.5	4SP(5G)4F	762.6064	-3.299	85728.806	1.5	4D (5D)4S
754.0242	-0.432	104426.460	2.5	5D (5D)6F	91167.937	3.5	5P (5D)6P	762.6224	-3.940	105127.770	2.5	5D (5D)4D
754.1730	-4.577	79439.467	3.5	5S (5D)4D	92695.374	2.5	4P (3P)2D	763.1539	4.936	81639.260	2.5	D5S2(7S)2F
754.3372	-0.964	104828.160	2.5	5D (5D)6D	91575.139	2.5	5P (5D)6P	763.1670	-2.174	104000.810	3.5	5D (5D)6P
754.3793	-4.262	50212.826	2.5	D6S (3P)4P	63465.109	1.5	4P (3F)4D	763.1959	-0.527	102543.648	1.5	6S (5D)6D
754.7790	-4.679	88157.116	1.5	4D (5D)4P	101402.380	0.5	4SP(5D)4P	763.2955	-4.223	105524.461	4.5	4D (3F)4H
754.8279	-1.567	79885.493	2.5	5S (5D)4D	93129.900	3.5	4P (3F)4D	763.3488	-4.223	54904.222	3.5	D6S (3F)2F
754.8651	-0.206	104411.690	4.5	5D (5D)6D	91167.937	3.5	5P (5D)6P	763.4774	-4.555	105211.140	4.5	5D (5D)4G
754.9650	-3.248	105524.461	4.5	4D (3F)4D	92282.460	3.5	4SP(5G)4F	763.7059	-3.920	85679.698	2.5	4D (5D)4G
755.5212	-3.488	105398.852	5.5	4D (3F)4H	92166.600	5.5	4SP(5G)4F	763.7898	-3.574	73393.745	4.5	D5S2(7S)4F
755.8135	-4.442	105398.852	5.5	4D (3F)4H	92171.716	4.5	4P (3F)2D	763.9173	-4.562	73393.930	2.5	D5S2(7S)4F
755.9008	-9.427	25787.598	1.5	D6S (3P)2P	39013.206	1.5	4P (5D)6D	764.0140	-3.130	50187.813	3.5	D6S (3F)4F
755.9728	-4.750	85462.862	3.5	4D (5D)4G	72238.513	2.5	4P (3D)4F	764.0650	-3.486	105414.180	2.5	4D (3F)4G
756.1415	-2.329	104120.270	2.5	5D (5D)6P	90398.873	1.5	4P (3P)4P	764.0837	-0.049	101698.489	4.5	6S (5D)6D
756.2106	-1.330	104000.810	3.5	5D (5D)6P	90780.621	3.5	5P (5D)4F	764.0882	-3.429	85048.602	1.5	4D (5D)4D
756.2703	-4.199	104120.270	2.5	5D (5D)6F	90901.124	2.5	5P (5D)4F	764.2611	-3.910	83136.487	3.5	4D (5D)6F
756.3603	-2.910	104426.460	2.5	5D (5D)6F	91208.887	1.5	5P (5D)4F	764.5874	-2.929	78185.030	3.5	D5S2(7S)2G
756.3711	-1.520	80177.975	1.5	5S (5D)4D	93395.360	2.5	4P (3F)4F	764.7256	-3.059	85462.862	3.5	4D (5D)4G
756.5273	-1.081	102334.112	2.5	6S (5D)6D	89119.457	2.5	5P (5D)6D	764.7668	-0.410	102543.648	1.5	6S (5D)6D
756.5829	-3.399	78577.280	4.5	D5S2(7S)2G	65363.595	5.5	4P (3H)2H	764.7722	-3.879	80346.016	0.5	5S (5D)4D
756.6219	-0.210	104380.940	3.5	5D (5D)6F	91167.937	3.5	5P (5D)6P	764.7825	-2.955	104120.270	2.5	5D (5D)6P
756.6897	-2.870	105127.770	2.5	5D (5D)4D	91915.950	1.5	4SP(5D)6F	764.7858	-1.698	78843.992	0.5	5S (5D)6D
756.7343	-4.632	103608.909	4.5	5S (3G)2G	90397.868	3.5	5P (5D)4D	764.8208	-9.056	25787.598	1.5	D6S (3P)2P
756.7729	-3.679	54063.459	0.5	D6S (3P)2P	67273.826	1.5	4P (3F)2D	765.1445	-4.451	105153.090	4.5	4D (3F)4G
756.9890	-3.101	85184.734	4.5	4D (5D)4G	88391.330	3.5	4SP(5D)4D	765.2388	-4.429	105711.730	2.5	5D (5D)6S
757.0489	-0.572	102334.112	2.5	6S (5D)6D	89128.561	3.5	4SP(5P)6P	765.3107	-4.868	105288.530	1.5	5D (5D)6G
757.1240	-2.944	85728.806	1.5	4D (5D)4S	72524.566	1.5	4P (3D)4D	765.3581	-3.106	79439.467	3.5	5S (5D)4D
757.4900	-4.062	105414.180	2.5	4D (3F)4D	92216.320	1.5	4P (3P)2D	765.4040	-3.980	81639.280	2.5	D5S2(7S)2F
757.6353	-1.030	102666.694	0.5	6S (5D)6D	89471.365	0.5	5P (5D)6D	765.4588	-3.851	31387.948	2.5	D6S (3D)4D
757.9406	-4.322	49506.934	1.5	5D (5D)6G	87252.790	1.5	5S (5D)6D	765.6634	-3.796	105211.140	4.5	5D (5D)4G
758.1104	-4.244	105205.790	2.5	5D (5D)6G	91915.950	1.5	4SP(5D)6F	765.7458	-2.581	105414.180	2.5	4D (3F)4G
758.2847	-0.483	102030.912	3.5	6S (5D)4D	64040.886	3.5	4SP(5D)6F	765.7502	-2.900	60445.275	2.5	D5S2(7S)4D
758.4487	-3.520	105449.540	3.5	5D (5D)4G	62689.880	2.5	4P (3P)4D	765.7622	-0.784	104630.430	1.5	5D (5D)6P
758.6674	-0.483	102030.912	3.5	6S (5D)4D	67000.517	2.5	4P (3F)2D	765.8190	-4.934	48039.090	2.5	D7 (5D)2D
758.7802	-2.388	105449.540	3.5	5D (5D)4G	88853.533	3.5	4SP(5P)6P	765.9991	-3.456	60441.033	1.5	D5S2(7S)4D
759.0942	-1.993	103950.590	4.5	5D (5D)6F	90780.621	3.5	5P (5D)4F	766.0884	-0.162	78525.407	2.5	5S (5D)6D
759.2608	-2.228	105449.540	3.5	5D (5D)4G	92282.460	3.5	4SP(5G)4F	766.0889	-1.640	104120.270	2.5	5D (5D)6P
759.3536	-4.134	85172.809	0.5	4D (5D)4D	98338.280	1.5	4SP(5P)4S	766.2852	-3.274	105065.630	3.5	5D (5D)6P
759.4825	-2.611	79439.467	3.5	5S (5D)4D	92116.780	4.5	4SP(5G)4H	766.5286	-2.553	85462.862	3.5	4D (5D)4G
760.1568	-4.011	73395.930	2.5	D5S2(7S)4F	86547.490	2.5	4P (1F)2F	766.6158	-0.582	102666.694	0.5	6S (5D)6D
760.2178	-1.949	80177.975	1.5	5S (5D)4D	92602.703	3.5	4P (3F)2G	766.6940	-3.529	105211.140	4.5	5D (5D)4G
760.3601	-4.457	73395.930	2.5	D5S2(7S)4F	86543.974	1.5	4P (3P)4D	767.2369	-5.424	25428.784	5.5	D6S (3G)4G
760.3974	-4.412	85048.602	1.5	4D (5D)4D	86543.974	1.5	4P (3P)4D	767.3635	-4.098	105630.750	2.5	5D (5D)4G
760.8221	-4.236	105414.180	2.5	4D (3F)4G	98196.000	1.5	4SP(5D)4F	767.5652	-4.702	49100.976	0.5	D6S (3P)4P
761.1854	-4.754	85462.862	3.5	4D (5D)4G	92274.120	2.5	4P (3P)4P	767.6497	-4.078	85172.809	0.5	4D (5D)4D
761.3053	-4.987	105414.180	2.5	4D (3F)4G	98596.650	4.5	4SP(5D)4F	767.6869	-3.753	105449.540	3.5	5D (5D)4G
761.3887	-0.455	104705.420	3.5	5D (5D)6D	92282.460	3.5	4SP(5G)4F	767.7788	-4.159	78577.280	4.5	D5S2(7S)2G
761.3940	-4.938	50142.786	2.5	D6S (3F)4F	63272.976	2.5	4P (3F)4D	768.0213	-3.209	105291.010	3.5	4D (3F)4G
761.4176	-3.715	85172.809	0.5	4D (5D)4D	93228.480	1.5	4P (3F)4D	768.0936	-4.623	105230.290	0.5	5D (5D)4D
761.6990	-3.826	78725.790	1.5	5S (5D)6D	72043.026	1.5	4P (3D)4P	768.2091	-3.634	79885.490	2.5	5S (5D)4D
761.8762	-4.511	105211.140	4.5	5D (5D)4G	91850.722	0.5	4SP(5D)6F	768.2171	-0.539	104588.710	1.5	5D (5D)6D
762.0057	-1.683	105449.540	3.5	5D (5D)4G	92089.260	3.5	4SP(5G)4H	768.5137	-3.369	105291.010	3.5	4D (3F)4G
762.0264	-4.894	105291.010	3.5	4D (3F)4G	92329.890	2.5	4SP(5G)4F	768.6212	-4.255	78843.992	0.5	5S (5D)6D
762.1201	-0.284	78725.790	1.5	5S (5D)6D	91843.470	1.5	5P (5D)6P	768.6894	-2.905	85048.602	1.5	4D (5D)4D
762.1201	-0.284	78725.790	1.5	5S (5D)6D	91843.470	1.5	5P (5D)6P	768.7381	-2.942	105230.290	0.5	5D (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
768.7937	-4.455	85172.809	0.5	4D (5D)4D	72168.998	1.5	4P (3D)4F	775.5563	-3.392	79439.467	3.5	5S (5D)4D	92329.890	2.5	4SP(5G)4F
768.8466	-0.152	102334.112	2.5	6S (5D)6D	89331.195	1.5	5P (5D)6D	775.6026	-0.349	102334.112	2.5	6S (5D)6D	89444.458	2.5	4SP(5P)6P
768.9644	-4.770	105155.090	4.5	4D (3F)4G	92154.165	3.5	4SP(5D)6F	775.8048	-3.989	50075.910	1.5	D6S (3F)4F	62962.205	1.5	4P (3P)4D
769.0500	-0.411	78843.992	0.5	5S (5D)6D	61843.470	1.5	5P (5D)6P	775.8842	-3.742	79885.493	2.5	5S (5D)4D	67000.517	2.5	4P (3P)2D
769.1825	-4.604	78577.280	4.5	D5S2(7S)2G	65580.041	5.5	4P (3G)4G	776.2078	-4.106	85048.602	1.5	4D (5D)4D	72168.998	1.5	4P (3D)4F
769.3392	-4.445	60384.370	0.5	D5S2(7S)4D	47389.779	1.5	4P (5D)4P	776.3449	-5.979	25981.629	3.5	D6S (3G)4G	38858.958	2.5	4P (5D)6D
769.5194	-4.312	73492.215	3.5	D5S2(7S)4F	86482.750	3.5	4P (1F)2F	776.4311	-4.443	105205.790	2.5	5D (5D)6G	92329.890	2.5	4SP(5G)4F
769.6425	-4.645	105205.790	2.5	5D (5D)6G	92216.320	1.5	4P (3P)2D	776.6091	-2.996	60270.339	3.5	D5S2(7S)4D	73143.288	3.5	4P (1G)2G
769.7006	-3.490	105155.090	4.5	4D (3F)4G	92166.600	5.5	4SP(5G)4F	776.6283	-2.466	105155.090	4.5	4D (3F)4G	92282.460	3.5	4SP(5G)4F
769.7585	-1.270	79439.467	3.5	5S (5D)4D	92426.980	4.5	4SP(5G)4F	776.6856	-3.102	105230.290	0.5	5D (5D)4D	92358.610	1.5	4SP(5G)4F
769.8057	-4.292	105589.420	3.5	4D (3F)4D	92602.703	3.5	4P (3F)2G	777.1475	-4.209	105291.010	3.5	4D (3F)4G	92426.980	4.5	4SP(5G)4F
769.9259	-0.617	104828.160	2.5	5D (5D)6D	91843.470	1.5	5P (5D)6P	777.3421	-3.196	79439.467	3.5	5S (5D)6F	92300.277	4.5	4SP(5D)6F
770.0118	-2.496	105630.750	2.5	5D (5D)4G	92647.510	1.5	4P (3F)4D	777.4392	-3.767	83136.487	3.5	4D (5D)6F	95995.690	2.5	4SP(5P)4D
770.0579	-1.564	80346.416	0.5	5S (5D)4D	93328.480	1.5	4P (3F)4F	777.6237	-4.566	85679.698	2.5	4D (5D)4G	98535.690	3.5	4SP(5D)4F
770.1891	-4.722	105205.790	2.5	5D (5D)6G	92225.538	1.5	5P (5D)4P	777.7107	-5.521	25805.328	4.5	D6S (3G)4G	38660.043	3.5	4P (5D)6D
770.4956	0.006	101698.489	4.5	6S (5D)6D	88723.400	4.5	5P (5D)6D	777.7236	-2.868	104873.230	3.5	5D (5D)4D	92018.729	2.5	4SP(5D)6F
770.5837	-4.283	105127.770	2.5	5D (5D)4D	92154.165	3.5	4SP(5D)6F	777.7751	-2.940	105127.770	2.5	5D (5D)4D	92274.120	2.5	4P (3P)4P
770.6866	-3.180	105398.852	5.5	4D (3F)4H	92426.980	4.5	4SP(5G)4F	777.9165	-0.995	104426.460	2.5	5D (5D)6F	91575.139	2.5	5P (5D)6P
771.1435	-3.497	57411.065	2.5	D5S2(7S)4P	94700.660	2.5	4P (3F)2D	778.0355	-0.601	78725.790	1.5	5S (5D)6D	91575.139	2.5	5P (5D)6P
771.1724	-2.773	31483.176	3.5	D6S (3D)4D	44446.878	3.5	4P (5D)4D	778.1668	-3.646	105205.790	2.5	5D (5D)6G	92358.610	1.5	4SP(5G)4F
771.3260	-2.633	105291.010	3.5	4D (3F)4G	92329.890	2.5	4SP(5G)4F	778.2801	-2.847	105449.540	3.5	5D (5D)4G	92602.703	3.5	4P (3F)2G
771.4027	-2.938	85172.809	0.5	4D (5D)4D	72212.978	0.5	4P (3D)4P	778.3015	-0.002	101698.489	4.5	6S (5D)6D	88853.533	3.5	5P (5D)6D
771.5246	-6.176	26055.423	2.5	D6S (3G)4G	39013.206	1.5	4P (5D)6D	778.3975	-4.813	85462.862	3.5	4D (5D)4G	72619.490	2.5	4P (3D)4D
771.8493	-1.171	104120.270	2.5	5D (5D)6P	91167.937	3.5	5P (5D)6P	778.4205	-2.260	79439.467	3.5	5S (5D)4D	92282.460	3.5	4SP(5D)4F
771.8842	-4.494	102842.119	4.5	5S (3G)4G	89890.373	3.5	4P (3F)4G	778.5316	-2.302	104757.110	0.5	5D (5D)6D	91915.950	1.5	4SP(5D)6F
771.9680	-4.275	81734.750	3.5	D5S2(7S)2F	94685.090	2.5	4SP(5D)6P	778.8674	-3.022	85048.602	1.5	4D (5D)4D	72212.978	0.5	4P (3D)4P
771.9728	-2.754	102394.718	3.5	6S (5D)4D	89444.458	2.5	4SP(5P)6P	778.9010	-4.790	105288.530	1.5	5D (5D)6G	92426.980	4.5	4P (3F)4D
772.1809	-3.717	105063.550	5.5	4D (3F)4G	92116.780	4.5	4SP(5G)4H	778.9263	-2.118	79439.467	3.5	5S (5D)4D	92274.120	2.5	4P (3F)4P
772.3130	-2.967	77230.900	4.5	D5S2(7S)2H	64286.345	3.5	4P (3F)2F	779.0344	-0.845	104000.810	3.5	5D (5D)6P	91167.937	3.5	5P (5D)6P
772.8611	-3.120	105630.750	2.5	5D (5D)4G	92695.374	2.5	4P (3P)2D	779.0350	-1.320	78237.685	3.5	5S (5D)6D	91070.547	2.5	5P (5D)4F
773.0826	-4.554	105205.790	2.5	5D (5D)6G	92274.120	2.5	4P (3P)4D	779.0443	-4.613	85184.734	4.5	4D (5D)4G	72352.024	3.5	4P (3D)4D
773.1667	-2.921	104000.810	3.5	5D (5D)6P	91070.547	2.5	5P (5D)4F	779.3402	-2.609	84870.863	2.5	4D (5D)4D	72043.026	1.5	4P (3D)4P
773.1674	-0.618	78237.685	3.5	5S (5D)6D	91167.937	3.5	5P (5D)6P	779.4882	-3.458	85679.698	2.5	4D (5D)4G	98505.100	2.5	4SP(5D)4D
773.2740	-4.749	85462.862	3.5	4D (5D)4G	98391.330	3.5	4SP(5D)4D	779.7405	-3.741	60270.339	3.5	D5S2(7S)4D	73091.590	4.5	4P (1G)2G
773.6756	-3.588	105524.461	4.5	4D (3F)4H	92602.703	3.5	4P (3F)2G	779.8520	-3.741	50142.786	2.5	D6S (3F)4F	62962.205	1.5	4P (3F)4D
773.8410	-2.180	77861.625	4.5	5S (5D)6D	90780.621	3.5	5P (5D)4F	780.0414	-4.583	102543.648	1.5	6S (5D)6D	89727.342	2.5	4P (3F)4G
773.9182	-0.752	102543.648	1.5	6S (5D)6D	89625.940	1.5	4SP(5P)6P	780.1235	-3.261	60441.033	1.5	D5S2(7S)4D	47626.076	0.5	4P (3D)4P
773.9508	-4.195	79439.467	3.5	5S (5D)4D	66522.304	2.5	4P (3G)4F	780.2220	-3.666	105063.550	5.5	4D (3F)4G	92250.210	6.5	4SP(5G)4H
774.0485	-1.271	105230.290	0.5	5D (5D)4D	92314.758	0.5	5P (5D)4F	780.2713	-3.794	105711.730	2.5	5D (5D)6S	92899.200	2.5	4P (3F)4D
774.1620	-0.864	104757.110	0.5	5D (5D)6D	91843.470	1.5	5P (5D)6P	780.3354	-4.549	105414.180	2.5	4D (3F)4G	92602.703	3.5	4P (3F)2G
774.2477	-1.865	104828.160	2.5	5D (5D)6D	91915.950	1.5	4SP(5D)6F	780.4326	-3.042	79885.493	2.5	5S (5D)4D	92695.374	2.5	4P (3P)2D
774.2639	-4.961	102802.132	2.5	6S (5D)4D	89890.373	3.5	4P (3F)4G	780.4601	-4.108	104828.160	2.5	5D (5D)6D	92018.729	2.5	4SP(5D)6F
774.2924	-4.050	105065.630	3.5	5D (5D)6G	92154.165	3.5	4SP(5D)6F	780.4877	-3.294	108804.667	3.5	5S (3D)4D	95995.690	2.5	4SP(5P)4D
774.2930	-0.033	102030.912	3.5	6S (5D)6D	89119.457	2.5	5P (5D)6D	780.6813	-4.806	104380.940	3.5	5D (5D)6F	91575.139	2.5	5P (5D)6P
774.2933	-4.728	104120.270	2.5	5D (5D)4D	92216.320	1.5	4P (3P)2D	780.7460	-3.703	60384.370	0.5	D5S2(7S)4D	73189.110	1.5	4P (5D)6D
774.3285	-4.292	105211.140	4.5	5D (5D)4G	92300.277	4.5	4SP(5D)6F	780.8576	-3.766	60384.370	0.5	D5S2(7S)4D	73187.280	2.5	4P (3D)2P
774.4267	-4.404	83308.194	2.5	4D (5D)6F	96217.420	3.5	4SP(5P)4D	781.0754	-2.800	102842.119	4.5	5S (3G)4G	90042.719	4.5	4P (3F)4G
774.5970	-4.229	104757.110	0.5	5D (5D)6D	91850.722	0.5	4SP(5D)6F	781.1645	-3.487	105127.770	2.5	5D (5D)4D	92329.890	2.5	4SP(5G)4F
774.6111	-2.727	84870.863	2.5	4D (5D)4D	71964.710	2.5	4P (3D)4P	781.5535	-3.018	50157.452	4.5	D6S (3F)4D	62945.038	3.5	4P (3F)4D
774.7314	-3.860	80177.975	1.5	5S (5D)4D	67273.826	1.5	4P (3F)2D	781.7933	-3.018	50157.452	4.5	D6S (3F)4D	62945.038	3.5	4P (3F)4D
774.8393	-0.111	102030.912	3.5	6S (5D)6D	89128.561	3.5	4SP(5P)6P	781.8316	-0.462	104630.430	1.5	5D (5D)6P	91843.470	1.5	5P (5D)6P
774.8465	-2.510	105127.770	2.5	5D (5D)4D	92225.538	1.5	5P (5D)4P	781.9795	-4.153	60270.339	3.5	D5S2(7S)4D	73054.881	2.5	4P (1G)2F
775.3384	-4.939	105589.420	3.5	4D (3F)4H	92695.374	2.5	4P (3P)2D	782.0028	-2.140	105211.140	4.5	5D (5D)4G	92426.980	4.5	4SP(5G)4F
775.4714	-3.749	105063.550	5.5	4D (3F)4G	92171.716	4.5	4P (3F)2G	782.0145	-4.627	104873.230	3.5	5D (5D)4D	92089.260	3.5	4SP(5G)4H
775.4736	-2.907	85462.862	3.5	4D (5D)4G	98354.660	2.5	4SP(5D)4F	782.0634	-3.927	105065.630	3.5	5D (5D)6G	92282.460	3.5	4SP(5G)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
782.0950	-0.932	103950.590	4.5	5D (5D)6F	91167.937	3.5	5P (5D)6P	788.9121	-1.359	103265.694	0.5	6S (5D)4D	90593.497	1.5	5P (5D)6F
782.2753	-4.725	104630.430	1.5	5D (5D)6P	91850.722	0.5	4SP(5D)6F	789.4577	-2.089	78237.685	3.5	5S (5D)6D	90901.124	2.5	5P (5D)4P
782.3039	-4.155	104868.500	4.5	5D (5D)6G	92089.260	3.5	4SP(5G)4H	789.6230	-3.364	102584.963	5.5	5S (3G)4G	89924.175	5.5	5P (5D)6F
782.4515	-3.186	105230.290	0.5	5D (5D)4D	92453.460	0.5	4P (3F)4D	790.0683	-6.325	25805.328	4.5	6S (3G)4G	83458.981	4.5	4P (5D)6D
782.4843	-4.646	85728.806	1.5	4D (5D)4S	98505.100	2.5	4SP(5D)4D	790.4062	-3.732	85172.809	0.5	4D (5D)4D	72524.566	1.5	4P (3D)4D
782.5775	-4.394	102842.119	4.5	5S (3G)4G	90067.347	4.5	5P (5D)6F	790.5498	-4.140	78577.280	4.5	D5S2(7S)2G	65931.334	3.5	4P (3G)4G
782.9215	-4.714	105127.770	2.5	5D (5D)4D	92358.610	1.5	4SP(5G)4F	790.6322	-4.651	49506.934	1.5	D6S (3P)4P	62151.561	2.5	4P (3F)4F
782.9744	-2.584	73393.745	4.5	D5S2(7S)4F	60625.449	5.5	4P (3H)4G	790.6980	-4.941	99573.225	4.5	5S (3F)4F	86929.649	3.5	4P (3F)4D
783.0742	-3.372	105414.180	2.5	4D (3F)4G	92647.510	1.5	4P (3F)4D	790.7634	-0.949	78525.407	2.5	5S (5D)6D	91167.937	3.5	5P (5D)6P
783.2826	-4.379	105063.550	5.5	4D (3F)4G	92300.277	4.5	4SP(5D)6F	791.1364	-2.205	105063.550	5.5	4D (3F)4G	92426.980	4.5	4SP(5G)4F
783.3597	-3.578	79885.493	2.5	5S (5D)4D	92647.510	1.5	4P (3F)4D	791.1851	-3.834	103265.694	0.5	6S (5D)4D	90629.902	1.5	4P (3F)4S
783.5641	-4.969	99688.337	3.5	5S (3F)4F	86929.649	3.5	4P (3F)4D	791.4006	-4.682	84870.863	2.5	4D (5D)4D	72238.513	2.5	4P (3D)4F
783.5883	-3.389	60384.370	0.5	D5S2(7S)4D	47626.076	0.5	4P (5D)4D	791.5109	-0.850	103118.400	1.5	6S (5D)4D	90487.810	2.5	5P (5D)6F
783.6539	-4.011	50187.813	3.5	D6S (3F)4F	62945.038	3.5	4P (3F)4D	791.5216	-4.808	102842.119	4.5	5S (3G)4G	90211.700	5.5	4P (3F)4G
783.8419	-2.487	105449.540	3.5	5D (5D)4G	92695.374	2.5	4P (3P)2D	791.6262	-3.385	78185.030	3.5	D5S2(7S)2G	65556.280	4.5	4P (3H)2H
783.9034	-3.599	50075.910	1.5	D6S (3F)4F	82829.075	0.5	4P (3P)4D	791.7796	-4.470	57411.065	2.5	D5S2(7S)4P	44784.761	2.5	4P (5D)4D
784.0070	-4.562	73637.340	1.5	D5S2(7S)4F	86388.820	0.5	4P (3P)4D	791.8078	-4.993	85728.806	1.5	4D (5D)4S	98354.660	2.5	4SP(5D)4F
784.1362	-3.884	50212.826	2.5	D6S (3P)4F	62962.202	1.5	4P (3P)4D	792.2447	-3.222	85048.602	1.5	4D (5D)4D	72429.711	0.5	4P (3D)4D
784.1388	-3.719	31483.176	3.5	D6S (3D)4D	44232.512	4.5	4P (5D)4F	792.3335	-2.156	103265.694	0.5	6S (5D)4D	90648.217	0.5	5P (5D)6F
784.2163	-3.613	60441.033	1.5	D5S2(7S)4D	73189.110	1.5	4P (3D)2P	792.4162	-4.571	104705.420	3.5	5D (5D)6D	92089.260	3.5	4SP(5G)4H
784.3289	-3.801	60441.033	1.5	D5S2(7S)4D	73187.280	0.5	4P (3D)2P	792.5615	-3.862	60441.033	1.5	D5S2(7S)4D	73054.881	2.5	4P (1G)2F
784.3456	-4.488	84710.685	3.5	4D (5D)6G	92116.780	4.5	4SP(5G)4H	792.6281	-4.053	79885.493	2.5	5S (5D)4D	67273.826	1.5	4P (3F)2D
784.3559	-2.422	60270.339	3.5	5D (5D)6D	73016.147	3.5	4P (1G)2F	792.8281	-4.053	60445.275	2.5	D5S2(7S)4D	73054.881	2.5	4P (1G)2F
784.4773	-3.839	60445.275	2.5	D5S2(7S)4D	91843.470	1.5	5P (5D)6P	792.9016	-1.998	105211.140	4.5	5D (5D)4G	92602.703	3.5	4P (3F)2G
784.5227	-3.361	85172.809	0.5	4D (5D)4D	73429.711	0.5	4P (3D)2D	793.1417	-7.708	26055.423	2.5	D6S (3G)4G	38660.043	3.5	4P (5D)6D
784.9759	-3.319	105065.630	3.5	5D (5D)6G	92329.890	2.5	4SP(5G)4F	793.2675	-2.603	104828.160	2.5	5D (5D)6D	92225.538	1.5	5P (5D)4P
785.1912	-2.737	79439.467	3.5	5S (5D)4D	92171.716	4.5	4P (3F)2G	793.7074	-3.276	105291.010	3.5	4D (3F)4G	92695.374	2.5	4P (3P)2D
785.1935	-2.960	105155.090	4.5	4D (3F)4G	92495.038	3.5	4P (3F)4D	793.7142	-3.144	73637.340	1.5	D5S2(7S)4F	61041.748	2.5	4P (3H)4G
785.2343	-2.993	105630.750	2.5	5D (5D)4G	92899.200	2.5	4P (3F)4D	794.0142	-3.834	104873.230	3.5	5D (5D)4D	92282.460	3.5	4SP(5G)4F
785.4465	-3.268	105155.090	4.5	4D (3F)4G	92426.980	4.5	4SP(5G)4F	794.2364	-2.717	108804.667	3.5	5S (3D)4D	96217.420	3.5	4SP(5F)4D
785.8716	-1.869	80177.975	1.5	5S (5D)4D	92899.200	2.5	4P (3F)4D	794.2826	-4.254	73393.740	4.5	D5S2(7S)4F	60807.230	4.5	4P (3H)4G
785.9171	-2.180	84685.198	3.5	4D (5D)4D	71964.710	2.5	4P (3D)4P	794.2865	-1.886	102030.912	3.5	6S (5D)6D	89444.458	2.5	4SP(5F)6P
786.0051	-3.544	104873.230	3.5	5D (5D)4D	92154.165	3.5	4SP(5D)6F	794.3126	-2.772	104868.500	4.5	5D (5D)6G	92282.460	3.5	4SP(5G)4F
786.0211	-4.199	105414.180	2.5	4D (3F)4G	92695.374	2.5	4P (3P)2D	794.5051	-1.972	104426.460	2.5	5D (5D)6F	91843.470	1.5	5P (5D)6P
786.1197	-1.962	79885.493	2.5	5S (5D)4D	92602.703	3.5	4P (3F)2G	794.5184	-3.957	105230.290	0.5	5D (5D)4D	92647.510	1.5	4P (3F)4D
786.2750	-4.933	79439.467	3.5	5S (5D)4D	92154.165	3.5	4SP(5D)6F	794.7406	-4.422	79439.467	3.5	5S (5D)4D	92018.729	2.5	4SP(5D)6F
786.2885	-1.838	104630.430	1.5	5D (5D)6P	91915.950	1.5	4SP(5D)6F	795.2710	-2.997	60445.275	2.5	D5S2(7S)4D	73016.147	3.5	4P (1G)2F
786.2975	-2.977	104868.500	4.5	5D (5D)6G	92154.165	3.5	4SP(5D)6F	795.3274	-3.371	104588.710	1.5	5D (5D)6D	92018.729	2.5	4SP(5D)6F
786.6548	-3.621	57493.321	1.5	D5S2(7S)4D	44784.761	2.5	4P (5D)4D	795.3374	-3.371	104588.710	1.5	5D (5D)6D	92018.729	2.5	4SP(5D)6F
786.6788	-3.352	102334.112	2.5	6S (5D)6D	89625.940	1.5	4SP(3F)6P	795.3707	-1.084	101698.489	4.5	6S (5D)6D	89128.561	3.5	4SP(5F)6P
787.0694	-3.599	84870.863	2.5	4D (5D)4D	72168.998	1.5	4P (3D)4F	795.6724	-4.804	78577.280	4.5	5D (5D)6G	66012.770	4.5	4P (3G)4F
787.0912	-4.399	104873.230	3.5	5D (5D)4D	92171.716	4.5	4P (3F)2G	795.7596	-3.655	104863.430	5.5	5D (5D)6D	92300.277	4.5	4SP(5D)6F
787.3082	-3.455	60445.275	2.5	D5S2(7S)4D	73143.288	3.5	4P (1G)2G	796.3373	-3.826	104828.160	2.5	5D (5D)6D	66012.770	4.5	4P (3G)4F
787.3844	-4.672	104868.500	4.5	5D (5D)6G	92171.716	4.5	4P (3F)2G	796.4422	-2.786	105155.090	4.5	4D (3F)4G	92602.703	3.5	4P (3F)2G
787.6989	-2.738	104863.430	5.5	5D (5D)4G	92171.716	4.5	4P (3F)2G	796.5140	-3.446	104705.420	3.5	5D (5D)6D	92154.165	3.5	4SP(5D)6F
787.7917	-3.940	105589.420	3.5	4D (3F)4H	92899.200	2.5	4P (3F)4D	796.5721	-2.391	105449.540	3.5	5D (5D)4G	92899.200	2.5	4P (3F)4D
787.9105	-3.829	105291.010	3.5	4D (3F)4G	92602.703	3.5	4P (3F)2G	796.6028	-4.009	83308.194	2.5	4D (5D)6F	95858.050	1.5	4SP(5F)4D
787.9608	-3.722	83308.194	2.5	4D (5D)6F	95959.690	2.5	4SP(5F)4D	796.6446	-4.615	54063.459	0.5	D6S (3F)2P	66612.656	1.5	4P (3G)4F
788.0108	-2.682	104705.420	3.5	5D (5D)6D	92018.729	2.5	4SP(5D)6F	796.7781	-3.773	50142.786	2.5	D6S (3F)4F	62689.880	2.5	4P (3F)4D
788.1168	-2.937	73492.215	3.5	D5S2(7S)4F	60807.230	4.5	4P (3H)4G	796.8667	-3.900	104828.160	2.5	5D (5D)6D	92282.460	3.5	4SP(5G)4F
788.2103	-2.575	78525.407	2.5	5S (5D)6D	91208.887	1.5	5P (5D)4F	796.9022	-1.025	78525.407	2.5	5S (5D)6D	91070.547	2.5	5P (5D)4F
788.5253	-6.308	25981.629	3.5	D6S (3G)4G	38660.043	3.5	4P (5D)6D	796.9028	-1.136	104120.270	2.5	5D (5D)6P	91575.139	2.5	5P (5D)6P
788.5937	-3.792	79439.467	3.5	5S (5D)4D	92116.780	4.5	4SP(5G)4H	796.9793	-3.926	73637.340	1.5	D5S2(7S)4F	61093.413	2.5	4P (3F)2D
788.7400	-3.503	85679.698	2.5	4D (5D)4G	98354.660	2.5	4SP(5D)4F	797.0166	-4.306	104873.230	3.5	5D (5D)4D	92329.890	2.5	4SP(5G)4F
788.8002	-3.916	104828.160	2.5	5D (5D)6D	92154.165	3.5	4SP(5D)6F	797.0423	-0.633	78237.685	3.5	5S (5D)6D	90780.621	3.5	5P (5D)4F
788.8771	-2.941	104588.710	1.5	5D (5D)6D	91915.950	1.5	4SP(5D)6F	797.1242	-4.699	78237.685	3.5	5S (5D)6D	65696.038	4.5	4P (3G)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
797.1339	-2.820	102842.119	4.5	5S (3G)4G	90300.625	3.5	5P (3D)6F	804.5291	-0.657	103265.694	0.5	6S (5D)4D	90839.480	0.5	4P (3F)4P
797.2482	-4.375	85728.806	1.5	4D (5D)4S	73189.110	1.5	4P (3D)2P	804.5643	-1.519	104000.810	3.5	5D (5D)6P	91575.139	2.5	5P (5D)6P
797.4678	-1.855	77861.625	4.5	5S (3D)6D	90397.868	3.5	5P (5D)4D	804.8309	-3.577	104593.270	5.5	5D (5D)6G	92171.716	4.5	4P (3F)2G
797.4820	-4.163	83459.670	1.5	4D (5D)6F	95995.690	2.5	4SP(5P)4D	805.4797	-2.668	86124.301	4.5	4D (5D)6F	98535.801	3.5	4SP(5D)4F
797.5193	-4.165	73492.215	3.5	D5S2(7S)4F	60956.781	3.5	4P (3H)4G	805.7276	-3.298	104705.420	3.5	5D (5D)6F	92018.729	2.5	4SP(5D)6F
797.5904	-4.083	57578.484	0.5	D5S2(7S)4P	45044.168	1.5	4P (5D)4D	805.8957	-4.370	104705.420	3.5	5D (5D)6D	92300.277	4.5	4SP(5D)6F
797.6294	-4.237	104705.420	3.5	5D (5D)6D	92171.716	4.5	4P (3F)2G	805.8982	-4.408	83812.316	2.5	4D (5D)6D	96217.420	3.5	4SP(5P)4F
797.6832	-6.613	85184.734	4.5	4D (5D)4D	72651.876	3.5	4P (3D)4D	805.9504	-4.523	73393.743	1.5	5D (5D)6P	92225.538	1.5	5P (5D)4P
797.7651	-3.997	104757.110	0.5	5D (5D)6D	92225.538	1.5	5P (5D)4D	806.0155	-2.402	54870.528	2.5	D6S (3F)2F	67273.826	1.5	4P (3F)2D
798.1794	-3.210	105127.770	2.5	5D (5D)4D	92602.703	3.5	4P (3F)2G	806.1560	-3.420	78237.685	3.5	5S (5D)6D	90638.822	2.5	5P (5D)4D
798.1898	-1.111	77861.625	4.5	5S (3D)6D	90386.528	4.5	5P (5D)4F	806.2977	-3.270	77230.900	4.5	D5S2(7S)2H	64831.904	4.5	4P (3F)2G
798.1898	-3.619	103118.400	1.5	6S (5D)4D	90593.497	1.5	5P (5D)6F	806.3078	-3.263	73492.215	3.5	D5S2(7S)4F	61093.413	2.5	4P (3P)2D
798.2451	-3.274	85048.602	1.5	4D (5D)4D	72524.566	1.5	4P (3D)4D	806.3354	-4.971	54273.641	1.5	D5S2(7S)4G	66672.534	3.5	4P (3G)4H
798.3208	-1.811	78525.407	2.5	5S (5D)6D	91048.256	1.5	5P (5D)4D	806.3719	-3.854	83459.670	1.5	4D (5D)6F	95858.500	1.5	4SP(5P)4F
798.6545	-3.099	102584.963	5.5	5S (3G)4G	90067.347	4.5	5P (5D)6F	806.4272	-1.579	79885.493	2.5	5S (5D)4D	92282.460	3.5	4SP(5G)4F
798.6683	-2.397	80177.975	1.5	5S (3D)4D	92695.374	2.5	4P (3P)2D	806.4447	-4.995	54275.637	2.5	D5S2(7S)4G	66672.534	3.5	4P (3G)4H
798.7383	-2.506	85679.698	2.5	4D (5D)4G	98196.000	1.5	4SP(5D)4F	806.5837	-3.550	105524.461	4.5	4D (3F)4H	93129.900	3.5	4P (3G)4H
798.8227	-3.852	105414.180	2.5	4D (3F)4F	92899.200	2.5	4P (3F)4D	806.7628	-3.313	105291.010	3.5	4D (3F)4G	92899.200	2.5	4P (3F)4D
799.1081	-3.638	104426.460	2.5	5D (5D)6F	91915.950	1.5	4SP(5D)6F	806.9383	-4.331	54283.220	3.5	D5S2(7S)4G	66672.534	3.5	4P (3G)4H
799.3869	-4.862	73393.745	4.5	D5S2(7S)4F	60887.598	5.5	4P (3H)4H	806.9700	-2.944	79885.493	2.5	5S (5D)4D	92274.120	2.5	4P (3P)4P
799.4735	-4.471	50157.452	4.5	D6S (3F)4F	62662.244	5.5	4P (3H)2I	807.2261	-4.997	87985.628	2.5	4D (5D)4P	75600.931	3.5	4P (3D)2F
799.6078	-3.910	73492.215	3.5	D5S2(7S)4F	60989.444	4.5	4P (3H)4I	807.3204	-2.953	105711.730	2.5	5D (5D)6S	93328.480	1.5	4P (3F)4F
799.6478	-3.668	50187.813	3.5	D6S (3F)4F	62689.880	2.5	4P (3P)4D	807.4321	-2.538	60270.339	3.5	D5S2(7S)4D	72651.876	3.5	4P (3D)4D
799.6721	-0.475	102602.312	2.5	6S (5D)4D	90300.625	3.5	5P (5D)6F	807.4447	-4.677	84424.370	1.5	4D (5D)6P	72043.026	1.5	4P (3D)4P
799.7257	-3.912	105630.750	2.5	5D (5D)4G	93129.900	3.5	4P (3F)4D	807.5116	-2.717	60270.339	3.5	D5S2(7S)4D	72650.658	4.5	4P (3D)4F
799.8907	-4.286	104828.160	2.5	5D (5D)6D	92329.890	2.5	4SP(5G)4F	807.8119	-1.372	78525.407	2.5	5S (5D)6D	90901.124	2.5	5P (5D)4F
800.3527	-3.352	83726.364	4.5	4D (5D)6D	96217.420	3.5	4SP(5P)4D	807.8241	-3.529	104705.420	3.5	5D (5D)6D	92329.890	2.5	4SP(5G)4F
800.4850	-4.406	78185.030	3.5	D5S2(7S)2G	65696.038	4.5	4P (3G)4G	807.9588	-2.023	78525.407	2.5	5S (5D)6D	90898.873	1.5	4P (3P)4P
800.8630	-1.526	78725.790	1.5	5S (5D)6D	91208.887	1.5	5P (5D)4F	808.0865	-4.499	54902.315	1.5	D6S (3F)2P	67273.826	1.5	4P (3F)2D
801.0451	-3.209	105127.770	2.5	5D (5D)4D	92647.510	1.5	4P (3F)4D	808.1685	-4.279	105065.370	3.5	5D (5D)6G	92695.374	2.5	4P (3P)2D
801.0888	-1.632	103118.400	1.5	6S (5D)4D	90638.822	2.5	5P (5D)4D	808.3880	-4.758	57411.065	2.5	D5S2(7S)4P	45044.168	1.5	4P (5D)4D
801.2317	-7.559	25981.629	3.5	D6S (3G)4G	38458.981	4.5	4P (5D)6D	808.3930	-0.677	103265.694	0.5	6S (5D)4D	90898.873	1.5	4P (3P)4P
801.2509	-3.478	50212.826	2.5	D6S (3P)4P	62689.880	2.5	4P (3P)4D	808.5189	-1.797	78843.982	0.5	5S (5D)6F	91208.873	1.5	4P (3F)4P
801.2551	-4.445	81734.750	3.5	D5S2(7S)2F	94211.739	2.5	4SP(5P)4D	808.6316	-4.702	104588.710	1.5	5D (5D)6D	92225.538	1.5	5P (5D)4P
801.4499	-2.432	78725.790	1.5	5S (5D)6D	91199.746	0.5	5P (5D)4D	808.6944	-3.720	104380.940	3.5	5D (5D)6F	92018.729	2.5	4SP(5D)6F
801.5038	-3.352	79885.493	2.5	5S (3D)4D	92358.610	1.5	4SP(5G)4F	808.6950	-4.682	84326.912	2.5	4D (5D)6P	71964.710	2.5	4P (3D)4P
801.5531	-3.260	86124.301	4.5	4D (5D)4F	98596.650	4.5	4SP(5D)4F	809.0477	-4.488	54232.195	5.5	D5S2(7S)4G	66589.008	4.5	4P (3G)4H
801.6924	-2.120	103118.400	1.5	6S (5D)4D	90648.217	0.5	5P (5D)6F	809.0806	-4.259	104630.430	1.5	5D (5D)6P	92274.120	2.5	4P (3F)4P
801.7340	-4.275	104828.160	2.5	5D (5D)6D	92358.610	1.5	4SP(5G)4F	809.1170	-2.046	78843.982	0.5	5S (5D)6D	91199.746	0.5	5P (5D)4P
801.7340	-3.210	80177.975	1.5	5S (5D)4D	92647.510	1.5	4P (3F)4D	809.2200	-3.942	73393.930	2.5	D5S2(7S)2F	61041.748	2.5	4P (3H)4G
802.1591	-4.264	105065.630	3.5	5D (5D)6G	92602.703	3.5	4P (3F)2G	809.4891	-0.084	77861.625	4.5	5S (5D)6D	90211.700	5.5	4P (3D)4D
802.3695	-4.627	84424.370	1.5	4D (5D)6P	71964.710	2.5	4P (3D)4P	809.5497	-2.796	60270.339	3.5	D5S2(7S)4D	72619.490	2.5	4P (3D)4D
802.3785	-4.407	105589.420	3.5	4D (3F)4H	93129.900	3.5	4P (3F)4G	809.5655	-4.280	81639.260	2.5	D5S2(7S)2F	93988.170	2.5	4SP(5G)4G
802.6316	-3.990	102842.119	4.5	5S (3G)4G	90386.528	4.5	5P (5D)4F	809.7368	-3.139	84870.863	2.5	4D (5D)4D	72524.566	1.5	4P (3D)4D
802.6434	-3.664	84870.863	2.5	4D (5D)4D	97326.270	1.5	4SP(3P)2P	809.8378	-0.781	78725.790	1.5	5S (5D)6D	91070.547	1.5	5P (5D)4F
802.9619	-4.053	73492.215	3.5	D5S2(7S)4F	61041.748	2.5	4P (3H)4G	810.1471	-1.599	79885.493	2.5	5S (5D)4D	92225.538	1.5	5P (5D)4P
803.1399	-4.262	108804.667	3.5	5S (3D)4D	96356.960	3.5	4SP(3G)2F	810.2492	-4.563	81734.750	3.5	D5S2(7S)2F	94073.240	3.5	4SP(5G)4G
803.2340	-2.958	104873.230	3.5	5D (5D)4D	92426.980	4.5	4SP(5G)4F	810.3458	-3.492	54275.637	2.5	D5S2(7S)4G	66612.656	1.5	4P (3G)4F
803.3536	-2.075	79885.493	2.5	5S (3D)4D	92329.890	2.5	4SP(5G)4F	810.4534	-4.132	73492.215	3.5	D5S2(7S)4F	61156.835	3.5	4P (3H)4H
803.3630	-3.697	102842.119	4.5	5S (3G)4G	90397.868	3.5	5P (5D)4D	810.5984	-4.841	84685.198	3.5	4D (5D)4D	72352.024	3.5	4P (3D)4F
803.3960	-4.032	102334.112	2.5	6S (5D)6D	89890.373	3.5	4P (3F)4G	810.7291	-4.964	57411.065	2.5	D5S2(7S)4P	45079.879	2.5	4P (5D)4F
803.3960	-3.416	104868.500	4.5	5D (5D)6G	92426.980	4.5	4SP(5C)4F	810.9800	-0.132	102394.718	3.5	6S (5D)4D	90216.320	1.5	4P (3P)2D
803.6925	-2.959	73393.930	2.5	D5S2(7S)4F	60956.781	3.5	4P (3H)4G	811.3028	-1.554	78725.790	1.5	5S (5D)6D	91048.256	1.5	5P (5D)4D
803.7021	-2.642	77861.625	4.5	5S (3D)6D	90300.625	3.5	5P (5D)6F	811.3052	-4.016	104411.590	4.5	5D (5D)6D	92089.260	3.5	4SP(5G)4H
803.8669	-1.343	104863.430	5.5	5D (5D)4G	92426.980	4.5	4SP(5G)4F	811.4889	-2.456	105449.540	3.5	5D (5D)4G	93129.900	3.5	4P (3F)4D
804.1290	-4.379	105127.770	2.5	5D (5D)4D	92695.374	2.5	4P (3P)2D								
804.1999	-3.022	104705.420	3.5	5D (5D)6D	92274.120	2.5	4P (3P)4P								
804.3415	-3.894	85048.602	1.5	4D (5D)4D	72619.490	2.5	4P (3P)4D								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
811.7044	-4.239	105711.730	2.5	5D (5D)6S	93395.360	2.5	4P (3F)4F	818.8321	-4.375	83558.540	0.5	4D (5D)6F	95767.700	0.5	4SP(5P)4D
811.7504	-4.834	104630.430	1.5	5D (5D)6P	92314.758	0.5	5P (5D)4P	818.8552	-2.607	102802.312	2.5	6S (5D)4D	90593.497	1.5	5P (5D)6F
811.7705	-3.729	54273.641	4.5	D5S2(7S)4G	66589.008	4.5	4P (3G)4H	819.0037	-4.621	60445.275	2.5	D5S2(7S)4D	72651.876	3.5	4P (3D)4D
811.8217	-4.570	104588.710	1.5	5D (5D)6D	92274.120	2.5	4P (3P)4P	819.0627	-3.917	77861.625	4.5	5S (5D)6D	90067.347	4.5	5P (5D)6F
811.8275	-1.365	102802.312	2.5	6S (5D)4D	90487.810	2.5	5P (5D)6F	819.1568	-0.917	104120.270	2.5	5D (5D)6P	91915.950	1.5	4SP(5D)6F
812.2544	-4.584	83459.670	1.5	4D (5D)6F	95767.700	0.5	4SP(5P)4D	819.1605	-1.632	78843.992	0.5	5S (5D)6D	91048.256	1.5	5P (5D)4D
812.3041	-7.449	26352.766	4.5	D6S (3H)2H	38660.043	3.5	4P (5D)6D	819.1939	-4.801	79885.493	2.5	5S (5D)4D	92089.260	3.5	4SP(5G)4H
812.3494	-4.832	105205.760	2.5	5D (5D)6G	92899.200	2.5	4P (3F)4D	819.4321	-4.841	104366.820	6.5	5D (5D)6G	92166.600	5.5	4SP(5G)4H
812.4024	-4.973	54283.220	3.5	D5S2(7S)4G	66589.008	4.5	4P (3G)4H	819.4471	-4.169	78577.280	4.5	D5S2(7S)2G	66377.283	3.5	4P (3G)4F
812.6347	-1.547	105630.750	2.5	5D (5D)4G	93328.480	1.5	4P (3F)4F	819.5520	-2.610	102584.963	5.5	5S (3G)4G	90386.528	4.5	5P (5D)4F
812.6627	-3.254	84266.756	3.5	4D (5D)6P	71964.710	2.5	4P (3D)4P	819.8460	-3.297	105589.420	3.5	4D (3F)4H	93395.360	2.5	4P (3F)4F
812.6859	-1.961	80346.016	0.5	5S (5D)4D	92647.510	1.5	4P (3F)4D	820.4421	-4.036	54063.459	0.5	D6S (3P)2P	66248.660	0.5	4P (3P)2S
812.7490	-4.181	104630.430	1.5	5D (5D)6P	92329.890	2.5	4SP(5P)4F	820.5651	-4.744	83812.316	2.5	4D (5D)6D	95995.460	2.5	4SP(5P)4D
812.8170	-4.370	83558.540	0.5	4D (5D)6F	95858.050	1.5	4SP(5G)4F	820.7147	-3.699	77861.625	4.5	5S (5D)6D	90042.779	4.5	4P (3F)4G
813.2479	-2.707	104593.270	5.5	5D (5D)6G	92300.277	4.5	4SP(5D)6F	820.7496	-2.042	80416.333	3.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F
813.3348	-4.748	104380.940	3.5	5D (5D)6F	92089.260	3.5	4SP(5G)4H	820.7711	-4.426	86416.333	3.5	4D (5D)4F	98596.650	4.5	4SP(5D)4F
813.5254	-6.577	26170.181	5.5	D6S (3H)2H	38458.981	4.5	4P (5D)6D	820.8163	-4.530	50142.786	2.5	D6S (3F)4F	62322.431	3.5	4P (3H)2G
813.8248	-4.985	105414.180	2.5	4D (3F)4G	93129.900	3.5	4P (3F)4D	820.8267	-4.944	54232.195	5.5	D5S2(7S)4G	66411.686	6.5	4P (3G)4H
813.8509	-4.342	84326.912	2.5	4D (5D)6P	72043.026	1.5	4P (3D)4P	820.8964	-2.977	60441.033	1.5	D5S2(7S)4D	72619.490	2.5	4P (3D)4D
813.9656	-3.492	83713.536	3.5	4D (5D)6D	95995.690	2.5	4SP(5P)4D	820.9369	-4.394	104873.230	3.5	5D (5D)4D	92695.374	2.5	4P (3P)2D
814.1800	-1.094	103118.400	1.5	6S (5D)4D	90839.480	0.5	4P (3P)4P	820.9967	-4.987	104630.430	1.5	5D (5D)6P	92453.460	0.5	4P (3F)4D
814.1953	-4.748	105763.270	5.5	4D (3F)2H	93484.580	4.5	4P (3F)4F	821.0244	-7.890	26932.748	0.5	D6S (3P)2P	99109.307	0.5	4P (5D)6D
814.2118	-2.872	104705.420	3.5	5D (5D)6D	92426.980	4.5	4SP(5G)4F	821.1070	-1.759	78725.790	1.5	5S (5D)6D	90901.124	2.5	5P (5D)4F
814.2630	-3.835	85048.602	1.5	4D (5D)4D	97326.270	1.5	4SP(3P)2P	821.1825	-2.650	60445.275	2.5	D5S2(7S)4D	72619.490	2.5	4P (3D)4D
814.3206	-2.418	104120.270	2.5	5D (5D)6P	91843.470	1.5	5P (5D)6P	821.2588	-1.878	78725.790	1.5	5S (5D)6D	90898.873	1.5	4P (3P)4P
814.4078	-2.767	80177.975	1.5	5S (5D)4D	92453.460	0.5	4P (3F)4D	821.3042	-3.216	102802.312	2.5	6S (5D)4D	90629.140	1.5	4P (3P)4S
814.5096	-4.580	104588.710	1.5	5D (5D)6D	92314.758	0.5	5P (5D)4P	821.4397	-2.320	86599.738	2.5	4D (5D)4F	98770.192	1.5	4SP(5D)4S
814.6195	-4.721	104426.460	2.5	5D (5D)6F	92154.165	3.5	4SP(5D)6F	821.5607	-3.130	50075.910	1.5	D6S (3F)4F	62244.520	1.5	4P (3F)4F
814.6511	-4.983	104630.430	1.5	5D (5D)6P	92358.610	1.5	4SP(5G)4F	821.7079	-3.879	105065.630	3.5	5D (5D)6G	92899.200	2.5	4P (3F)4D
814.7369	-4.057	104873.230	3.5	5D (5D)4D	92602.703	3.5	4P (3F)2G	821.7174	-2.313	104593.270	5.5	5D (5D)6G	92426.980	4.5	4SP(5G)4F
814.8601	-3.299	79885.493	2.5	5S (5D)4D	92154.165	3.5	4SP(5D)6F	821.8059	-4.373	50157.452	4.5	D6S (3F)4F	62322.431	3.5	4P (3H)2G
814.9692	-2.043	86124.301	4.5	4D (5D)4F	98391.330	3.5	4SP(5D)4D	821.9065	-0.261	102802.312	2.5	6S (5D)4D	90638.822	2.5	5P (5D)4D
815.0511	-3.089	104868.500	4.5	5D (5D)6G	92602.703	3.5	4P (3F)2G	822.0658	-4.061	104593.270	5.5	5D (3D)6G	92432.136	5.5	4SP(5D)6F
815.5150	-4.802	104588.710	1.5	5D (5D)6D	92329.890	2.5	4SP(5G)4F	822.0674	-3.522	105291.010	3.5	4D (3F)4G	93129.900	3.5	4P (3F)4D
815.6011	-2.949	104411.690	4.5	5D (5D)6D	92154.165	3.5	4SP(5D)6F	822.1300	-0.579	78237.685	3.5	5S (5D)6D	90397.868	3.5	5P (5D)4D
815.7549	-0.275	78525.407	2.5	5S (5D)6D	90780.621	3.5	5P (5D)4F	822.2220	-4.633	54273.641	4.5	D5S2(7S)4G	42114.818	4.5	4P (5D)6F
816.0107	-3.748	84870.863	2.5	4D (5D)4D	72619.490	2.5	4P (3D)4D	822.5848	-3.983	85172.809	0.5	4D (5D)4D	97326.270	1.5	4SP(3P)2P
816.0938	-1.271	78237.685	3.5	5S (5D)6D	90487.810	2.5	5P (5D)6F	822.6606	-4.490	104426.460	2.5	5D (5D)6F	92274.120	2.5	4P (3P)4P
816.3243	-3.853	54275.637	2.5	D5S2(7S)4G	66522.304	2.5	4P (3G)4F	822.6894	-1.733	80431.537	6.5	4D (3H)2K	92166.600	5.5	4SP(5G)4H
816.7247	-2.034	99688.337	3.5	5S (3F)4F	111929.000	2.5	2900D	822.8974	0.132	80177.975	1.5	5S (5D)4D	92329.890	2.5	4SP(5G)4F
816.7706	-4.582	104411.690	4.5	5D (5D)6D	92171.716	4.5	4P (3F)2G	822.9024	-4.545	104315.370	6.5	4D (3H)2K	92166.600	5.5	4SP(5G)4H
816.8293	-4.403	73395.930	2.5	D5S2(7S)4F	61156.835	3.5	4P (3H)4H	822.9461	-4.741	78525.407	2.5	5S (5D)6D	66377.283	3.5	4P (3G)4F
816.8500	-3.114	54283.220	3.5	D5S2(7S)4G	66522.304	2.5	4P (3G)4F	823.2256	-4.988	104426.460	2.5	5D (5D)6F	92282.460	3.5	4SP(5G)4F
817.0767	-2.243	105630.750	2.5	5D (5D)4G	93395.360	2.5	4P (3F)4F	823.2866	-3.950	105630.750	2.5	5D (5D)4G	93487.650	3.5	4P (3F)4G
817.3173	-4.017	49100.976	0.5	D6S (3P)4P	61332.764	1.5	4P (3P)4P	823.4603	-4.922	102030.912	3.5	6S (5D)6D	89890.373	3.5	4P (3F)4G
817.3472	-3.401	54232.195	5.5	D5S2(7S)4G	66463.528	5.5	4P (3G)4H	823.4836	-3.377	60384.370	0.5	D5S2(7S)4D	72524.566	1.5	4P (3D)4D
817.5323	-3.138	105127.770	2.5	5D (5D)4D	92899.200	2.5	4P (3F)4D	823.7151	-0.815	80177.975	1.5	5S (5D)4D	92314.758	0.5	5P (5D)4P
817.6524	-3.794	104380.940	3.5	5D (5D)6F	92154.165	3.5	4SP(5D)6F	823.7905	-1.506	79439.467	3.5	5S (5D)4D	91575.139	2.5	5P (5D)6P
817.7405	-4.307	104828.160	2.5	5D (5D)6D	92602.703	3.5	4P (3F)2G	824.8621	-3.172	50187.813	3.5	D6S (3F)4F	62322.431	3.5	4P (3H)2G
817.7754	-4.542	78237.685	3.5	5S (5D)6D	66012.750	4.5	4P (3G)4F	824.1765	-3.761	54870.528	2.5	D6S (3F)2F	67000.517	2.5	4P (3F)2D
817.8326	-4.614	105711.730	2.5	5D (5D)6S	93487.650	3.5	4P (3F)4F	824.2982	-3.673	81734.750	3.5	D5S2(7S)2F	69606.552	3.5	4P (3G)2F
818.1374	-0.304	103118.400	1.5	6S (5D)4D	90898.873	1.5	4P (3P)4P	824.7727	-2.547	77230.900	4.5	D5S2(7S)2H	65109.679	3.5	4P (3F)2G
818.1732	-4.667	84870.863	2.5	4D (5D)4D	72651.876	3.5	4P (3D)4D	824.8886	-3.679	86416.333	3.5	4D (5D)4F	98535.850	3.5	4SP(5D)4F
818.2775	-0.292	103265.694	0.5	6S (5D)4D	91048.256	1.5	5P (5D)4D	825.0343	-3.709	54232.195	5.5	D5S2(7S)4G	42114.818	4.5	4P (5D)6F
818.2881	-0.197	103118.400	1.5	6S (5D)4D	90901.124	2.5	5P (5D)4P	825.2812	-4.632	78577.280	4.5	D5S2(7S)2G	66463.528	5.5	4P (3G)4H
818.5952	-4.197	84863.351	5.5	4D (5D)4G	72650.658	4.5	4P (3D)4F	825.2854	-2.867	78725.790	1.5	5S (5D)6D	90839.480	0.5	4P (3P)4P
818.8278	-4.758	104380.940	3.5	5D (5D)6F	92171.716	4.5	4P (3F)2G	825.3042	-0.907	78525.407	2.5	5S (5D)6D	90638.822	2.5	5P (5D)4P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
839.6291	-2.659	60445.275	2.5	D5S2(7S)4D	72352.024	3.5	4P(3D)4F	847.2758	-4.404	105127.770	2.5	5D(5D)4D	93328.480	1.5	4P(3F)4F
839.7269	-2.928	86599.738	2.5	4D(5D)4F	98505.100	2.5	4SP(5D)4D	847.4058	-2.817	60441.033	1.5	D5S2(7S)4D	72238.513	2.5	4P(3D)4F
839.7562	-4.851	78577.280	4.5	D5S2(7S)2G	66672.334	3.5	4P(3G)4H	847.4816	-4.386	103950.590	4.5	5D(5D)6F	92154.165	3.5	4SP(5D)6F
839.7647	-1.245	102543.648	1.5	6S(5D)6D	90638.822	2.5	5P(5D)4D	847.5805	-3.896	54283.220	3.5	D5S2(7S)4G	66078.260	2.5	4P(3G)4G
839.8151	-1.820	78725.790	1.5	5S(5D)6D	90629.902	1.5	4P(3P)4P	847.6370	-4.085	86710.837	1.5	4D(5D)4F	98505.100	2.5	4SP(5D)6F
839.8626	-0.679	102802.312	2.5	6S(5D)4D	90898.873	1.5	4P(3P)4P	847.7106	-4.117	60445.275	2.5	D5S2(7S)4D	72238.513	2.5	4P(3D)4F
839.9775	-0.257	105230.290	0.5	5D(5D)4D	93328.480	1.5	4P(3F)4F	847.9140	-3.311	105630.750	2.5	5D(5D)4G	90840.340	1.5	4SP(5D)6D
840.0214	-0.226	102802.312	2.5	6S(5D)4D	90901.124	2.5	5P(5D)4F	848.2327	-3.869	78843.992	0.5	5S(5D)6D	93629.902	1.5	4P(3F)4S
840.1191	-4.937	84424.370	1.5	4D(5D)6P	72524.566	1.5	4P(3D)4D	848.3300	-2.910	60384.370	0.5	D5S2(7S)4D	72168.998	1.5	4P(3D)4F
840.2415	-2.048	104064.670	6.5	4D(3H)4I	92166.600	5.5	4SP(5G)4H	848.3362	-2.042	82978.677	4.5	4D(5D)6F	94763.219	3.5	4SP(5D)6P
840.4125	-2.647	105291.010	3.5	4P(3F)4G	93395.360	2.5	4P(3F)4F	848.6233	-2.695	54232.195	5.5	D5S2(7S)4G	66012.750	4.5	4P(3G)4F
840.4280	-1.122	102543.648	1.5	6S(5D)6D	90648.217	0.5	5P(5D)6F	848.7444	-4.835	103950.590	4.5	5D(5D)6F	92171.716	4.5	4P(3F)2G
840.4376	-4.368	50187.813	3.5	D6S(3F)4F	62083.108	4.5	4P(3H)2G	848.8383	-4.310	83990.063	1.5	4D(5D)6D	95767.700	0.5	4SP(5D)6F
840.4773	-4.899	104120.270	2.5	5D(5D)6P	92225.538	1.5	5P(5D)4F	849.0079	-0.100	78525.407	2.5	5S(5D)6D	90300.625	3.5	5P(5D)6F
840.5114	-4.818	103983.510	3.5	5S(3G)2G	92089.260	3.5	4SP(5G)4H	849.0731	-0.273	101698.489	4.5	6S(5D)6D	89924.175	5.5	5P(5D)6F
840.5475	-9.089	30764.485	3.5	D6S(3G)2G	42658.224	3.5	4P(5D)6P	849.2440	-3.417	60441.033	1.5	D5S2(7S)4D	72212.978	0.5	4P(3D)4P
840.6581	-3.635	58631.531	4.5	D6S(1G)2G	70523.706	3.5	4P(3G)2G	849.2572	-4.385	84863.331	5.5	4D(5D)4G	73091.590	0.5	4P(1G)2G
840.7394	-4.247	57411.065	2.5	D5S2(7S)4F	69302.090	1.5	4SP(5S)4F	849.5416	-3.530	102666.694	0.5	6S(5D)6D	90898.873	1.5	4P(3F)4P
841.4409	-4.825	73393.745	4.5	D5S2(7S)4F	61512.634	4.5	4P(3H)4I	849.6631	-3.729	73492.215	3.5	D5S2(7S)4F	61726.077	3.5	4P(3P)4D
841.4664	-2.124	105711.730	2.5	5D(5D)6S	93830.979	2.5	4SP(5D)6D	849.7537	-4.208	103936.600	5.5	5D(5D)6F	92171.716	4.5	4P(3F)2G
841.5535	-2.869	80346.016	0.5	5S(5D)4D	92225.538	1.5	5P(5D)4F	849.9606	-0.070	78725.790	1.5	5S(5D)6D	90487.810	2.5	5P(5D)6F
841.6820	-2.952	50187.813	3.5	D6S(3F)4F	62065.521	3.5	4P(3F)4F	850.4033	-0.142	102394.718	3.5	6S(5D)4D	90638.822	2.5	5P(5D)4D
841.7102	-3.643	105205.790	2.5	5D(5D)6G	93328.480	1.5	4P(3F)4F	850.4738	-4.073	86599.738	2.5	4D(5D)4F	98354.660	2.5	4SP(5D)4F
841.9453	-4.772	54275.637	2.5	D5S2(7S)4G	42401.302	1.5	4P(5D)6F	850.5365	-0.411	102802.312	2.5	6S(5D)4D	91048.256	1.5	5P(5D)4D
842.0540	-0.110	105711.730	2.5	5S(5D)6D	92216.320	1.5	4P(3P)2D	850.6201	-4.556	81734.750	3.5	D5S2(7S)2F	93487.650	3.5	4P(3F)4F
842.1299	-2.000	105711.730	2.5	5S(5D)6D	90397.868	3.5	5P(5D)6D	850.8659	-0.222	78843.992	0.5	5S(5D)6D	90593.497	1.5	5P(5D)6F
842.2070	-3.465	80346.016	0.5	5S(5D)6D	93840.340	1.5	4SP(5D)6D	851.0263	-4.469	104174.270	5.5	4D(3H)4I	92426.980	4.5	4SP(5G)4F
842.2640	-3.250	104119.710	7.5	4D(3H)2K	92250.210	6.5	4SP(5G)4H	851.4005	-3.184	54870.528	2.5	D6S(3F)2F	66612.656	1.5	4P(3G)4F
842.3714	-4.630	83990.063	1.5	4D(5D)6D	95858.050	1.5	4SP(5P)4D	851.5102	-1.217	102334.112	2.5	6S(5D)6D	90593.497	1.5	5P(5D)6F
842.3913	-0.033	78725.790	1.5	5S(5D)6D	90593.497	1.5	5P(5D)6F	851.6194	-2.636	54273.641	4.5	D5S2(7S)4G	66012.750	4.5	4P(3G)4F
842.4198	-3.879	77230.900	4.5	D5S2(7S)2H	65363.595	5.5	4P(3H)2H	851.6564	-3.249	104868.500	4.5	5D(5D)6G	93129.900	3.5	4P(3F)4D
842.9148	-4.729	85048.602	1.5	4D(5D)4D	73189.110	1.5	4P(3D)2P	851.6606	-3.205	86599.738	2.5	4D(5D)4F	98338.280	1.5	4SP(5P)4S
843.1201	-3.676	58666.258	3.5	D6S(1G)2G	70523.706	3.5	4P(3G)2G	851.7017	-4.760	80177.975	1.5	5S(5D)4D	91915.950	1.5	4SP(5D)6F
843.3144	-4.755	84870.863	2.5	4D(5D)4D	73016.147	3.5	4P(1G)2F	852.1057	-4.650	105127.770	2.5	6S(5D)4D	93395.360	2.5	4P(3F)4F
843.4582	-3.973	50212.826	2.5	D6S(3P)4P	62065.521	3.5	4P(3F)4F	852.1525	-0.594	102802.312	2.5	6S(5D)4D	91070.547	2.5	5P(5D)4F
843.7571	-4.781	57578.484	0.5	D5S2(7S)4F	69426.980	0.5	4SP(5S)4P	852.1914	-4.688	104630.430	1.5	5D(5D)6P	92899.200	2.5	4P(3F)4D
843.7575	-7.963	30388.542	4.5	D6S(3G)2G	42237.033	3.5	4P(5D)6F	852.2077	-4.824	83308.194	2.5	4D(5D)6F	95039.200	1.5	4P(3F)2P
843.9134	-0.356	102334.112	2.5	6S(5D)6D	90487.810	2.5	5P(5D)6F	852.2599	-0.453	102030.912	3.5	6S(5D)6D	90300.625	3.5	5P(5D)6F
844.3088	-3.124	80177.975	1.5	5S(5D)4D	92018.729	2.5	4SP(5D)6F	852.3149	-4.060	54283.220	3.5	D5S2(7S)4G	66012.750	4.5	4P(3G)4F
845.1005	-0.386	78237.685	3.5	5S(5D)6D	90067.347	4.5	5P(5D)6F	852.3437	-3.688	84266.556	3.5	4D(5D)6P	95995.690	2.5	4SP(5P)4D
845.1758	-4.334	60384.370	0.5	D5S2(7S)4D	72212.978	0.5	4P(3D)4F	852.5308	-2.343	105211.140	4.5	5D(5D)4G	93484.580	4.5	4P(3F)4F
845.2754	-2.654	102666.694	0.5	6S(5D)6D	90839.480	0.5	4P(3P)4P	852.5361	-4.139	84131.563	0.5	4D(5D)6D	95858.050	1.5	4SP(5P)4D
845.3743	-3.733	49506.934	1.5	D6S(3P)4P	61332.764	1.5	4P(3P)4P	852.5514	-7.874	30388.542	4.5	D6S(3G)2G	42114.818	4.5	4P(5D)6F
846.1879	-4.706	104064.670	6.5	4D(3H)4I	92250.210	6.5	4SP(5G)4H	852.6971	-2.628	105711.730	2.5	6S(5D)6S	93987.457	3.5	4SP(5D)6D
846.3789	-4.886	103983.510	3.5	5S(3G)2G	92171.716	4.5	4P(3F)2G	852.7456	-3.509	57578.484	0.5	D5S2(7S)4P	69302.090	1.5	4SP(5S)4P
846.4766	-4.596	105205.790	2.5	5D(5D)6G	93395.360	2.5	4P(3F)4F	852.7540	-1.746	105211.140	4.5	5D(5D)4G	93487.650	3.5	4P(3F)4F
846.5801	-4.933	104411.690	4.5	5D(5D)6D	92602.703	3.5	4P(3F)2G	854.1588	-3.338	104828.160	2.5	6S(5D)6D	90629.902	1.5	4P(3F)4S
846.5957	-3.624	57493.321	1.5	D5S2(7S)4P	69302.090	1.5	4SP(5S)4P	854.1618	-2.553	102543.648	1.5	6S(5D)6D	90839.480	0.5	4P(3F)4P
846.7634	-4.078	105291.010	3.5	4D(3F)4G	93484.580	4.5	4P(3F)4F	854.4272	-4.663	104000.810	3.5	5D(5D)6P	92300.277	4.5	4SP(5D)6F
846.7785	-3.354	104705.420	3.5	5D(5D)6D	92899.200	2.5	4P(3F)4D	854.5932	-4.953	104828.160	2.5	5D(5D)6D	93129.900	3.5	4P(3F)4D
846.8593	-2.566	78237.685	3.5	5S(5D)6D	90042.779	4.5	4P(3F)4G	854.8102	-1.802	102334.112	2.5	6S(5D)6D	90638.822	2.5	5P(5D)4D
846.9216	-0.158	78843.992	0.5	5S(5D)6D	90648.217	0.5	5P(5D)6F	854.8774	-3.531	60270.339	3.5	D5S2(7S)4D	71964.710	2.5	4P(3D)4P
846.9837	-3.950	105291.010	3.5	4D(3F)4G	93487.650	3.5	4P(3F)4F	855.1009	-2.1976	57411.065	2.5	D5S2(7S)4P	69102.380	2.5	4SP(5S)4P
847.0359	-2.790	54275.637	2.5	D5S2(7S)4G	66078.269	2.5	4P(3G)4F	855.2229	-2.156	79885.493	2.5	5S(5D)4D	91575.139	2.5	5P(5D)6P
847.0564	-4.906	84326.912	2.5	4D(5D)6P	72524.566	1.5	4P(3D)4D	855.2232	-4.780	84527.778	4.5	4D(5D)6G	96217.420	3.5	4SP(5P)4D
847.0952	-4.611	54870.528	2.5	D6S(3F)2F	66672.334	3.5	4P(3G)4H	855.2541	-4.196	81639.260	2.5	D5S2(7S)2F	93328.480	1.5	4P(3F)4F
847.2413	-3.763	105630.750	2.5	5D(5D)4G	93830.979	2.5	4SP(5D)6D	855.5787	-4.666	54904.222	3.5	D6S(3F)2F	66589.008	4.5	4P(3G)4H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
855.7041	-3.452	58631.531	4.5	D6S (1G)2G	70314.604	4.5	4P (3G)2G	863.3577	-9.090	30388.542	4.5	D6S (3G)2G
855.8008	-4.095	84870.863	2.5	4D (5D)4D	73189.110	1.5	4P (3D)2P	863.3975	-2.535	105063.550	5.5	4D (3F)4G
856.3237	-2.708	77230.900	4.5	D5S2(7S)2H	65556.280	4.5	4P (3H)2H	863.4713	-4.359	105065.630	3.5	5D (5D)6G
856.4611	-3.630	80177.977	1.5	5S (5D)4D	91850.722	0.5	4SP(5D)6F	863.6548	-3.371	104705.420	3.5	5D (5D)6D
856.5334	-4.131	84685.198	3.5	4D (5D)4D	96356.960	3.5	4SP(3G)2F	863.7810	-4.449	104000.810	3.5	5D (5D)6P
856.6253	-3.685	105155.090	4.5	4P (3F)4G	93484.580	4.5	4P (3F)4F	863.8138	-4.199	105763.270	5.5	4D (3F)2H
856.6429	-3.389	105065.630	3.5	5D (5D)6G	93395.360	2.5	4P (3F)4F	864.0718	-3.180	80346.016	0.5	5S (5D)4D
856.6735	-4.773	73395.930	2.5	D5S2(7S)4F	61726.077	3.5	4P (3P)4D	864.1696	-3.335	50157.452	4.5	D6S (3F)4F
856.7524	-4.267	84326.912	2.5	4D (5D)6P	95995.690	2.5	4SP(5P)4D	864.5023	-4.696	83136.487	3.5	4D (5D)6F
856.8339	-4.146	73393.745	4.5	D5S2(7S)4F	61726.077	3.5	4P (3P)4D	865.3016	-1.049	102334.112	2.5	6S (5D)6D
856.8507	-2.762	105155.090	4.5	4D (3F)4G	93487.650	3.5	4P (3F)4F	865.6678	-2.123	83136.487	3.5	4D (5D)6F
856.9935	-2.135	80177.975	1.5	5S (5D)4D	91843.470	1.5	5P (5D)6P	866.0103	-8.215	27314.922	3.5	D6S (3F)2F
857.1970	-4.542	78185.030	3.5	D5S2(7S)2C	66522.304	2.5	4P (3G)4F	866.0684	-2.603	103118.400	1.5	6S (5D)4D
857.4962	-3.942	60384.370	0.5	D5S2(7S)2F	72043.026	1.5	4P (3D)4F	866.1896	-4.900	866.1896	-1.454	6S (5D)6D
857.5671	-4.022	54273.641	4.5	D5S2(7S)4G	65931.334	3.5	4P (3G)4G	866.4435	-4.073	50187.813	3.5	D6S (3F)4F
857.7130	-4.028	101698.468	4.5	6S (5D)6D	90042.779	4.5	4P (3F)4G	866.6991	-4.431	77230.900	4.5	D5S2(7S)2H
857.8668	-4.956	103983.510	3.5	5S (3G)2C	92329.890	2.5	4P (3G)4G	866.8975	-3.401	84685.198	3.5	4D (5D)4D
857.9354	-4.511	78237.685	3.5	5S (5D)6D	89890.373	3.5	4P (3F)4G	866.9790	-3.746	84326.912	2.5	4D (5D)6P
858.0026	-3.939	54870.528	2.5	D6S (3F)2F	66522.304	2.5	4P (3G)4F	867.1884	-2.986	49506.934	1.5	D6S (3P)4P
858.0701	-4.857	77230.900	4.5	D5S2(7S)2H	65580.041	5.5	4P (3G)4G	867.5403	-3.362	60441.033	1.5	D5S2(7S)4D
858.2552	-4.089	58666.258	3.5	D6S (1G)2C	70314.604	4.5	4P (3G)2G	867.5453	-3.684	103950.590	4.5	5D (5D)6F
858.2723	-2.708	54283.220	3.5	D5S2(7S)4G	65931.334	3.5	4P (3G)4G	867.8598	-2.943	60445.275	2.5	D5S2(7S)4D
858.3495	-4.647	84266.556	3.5	6S (5D)6D	72619.490	2.5	4P (3D)4D	867.9337	-3.906	103950.590	4.5	5D (5D)6F
858.5184	-1.659	102543.648	1.5	6S (5D)6D	90898.873	1.5	4P (3P)4F	868.1051	-4.620	105589.420	3.5	4D (3F)4H
858.5472	0.087	102030.912	3.5	6S (5D)6D	90386.528	4.5	5P (5D)4F	868.3678	-4.959	78185.030	3.5	D5S2(7S)2G
858.6277	-4.227	105630.750	2.5	5D (5D)4G	93987.457	3.5	4SP(5D)6D	868.4399	-4.088	73637.340	1.5	D5S2(7S)4F
858.6803	-4.785	105630.750	2.5	5D (5D)4G	93988.170	2.5	4SP(5G)4G	868.5998	-3.127	103936.600	5.5	5D (5D)6F
858.6844	-3.775	102543.648	1.5	6S (5D)6D	90901.124	2.5	5P (5D)4P	868.9709	-3.327	80346.016	0.5	5S (5D)4D
858.8617	-2.859	105127.770	2.5	5D (5D)6D	93487.650	3.5	4P (3F)4F	868.9891	-3.261	103936.600	5.5	5D (5D)6F
859.1420	-3.484	103936.600	5.5	5D (5D)6F	92300.277	4.5	4SP(5D)6F	869.2169	-2.366	103731.660	5.5	4D (3H)4H
859.1557	-4.645	84131.563	0.5	4D (5D)6D	95767.700	0.5	4SP(5P)4D	869.3271	-4.853	105711.730	2.5	5D (5D)6S
859.2825	-4.774	78577.280	4.5	D5S2(7S)2C	90211.700	5.5	4P (3F)4G	869.3506	-4.622	104828.160	2.5	5D (5D)6D
859.2858	-3.241	102802.312	2.5	6S (5D)4D	91167.937	3.5	5P (5D)6P	869.5190	-2.785	80346.016	0.5	5S (5D)4D
859.3842	-2.959	102030.912	3.5	6S (5D)6D	90397.868	3.5	5P (5D)4D	869.6749	-1.905	102543.648	1.5	6S (5D)6D
859.4218	-3.708	104064.670	6.5	4D (3H)4I	92432.136	5.5	4SP(5D)6F	869.8210	-0.827	102394.718	3.5	6S (5D)4D
859.5247	-0.732	101698.489	4.5	6S (5D)6D	90067.347	4.5	5P (5D)6F	869.9110	-4.429	103608.909	4.5	5S (3G)2G
859.5293	-0.052	79439.467	3.5	5S (5D)4D	91070.547	2.5	5P (5D)4F	870.3263	-0.254	101698.489	4.5	6S (5D)6D
859.7473	-1.957	103878.340	7.5	4D (3H)4I	92250.210	6.5	4SP(5G)4H	870.3428	-4.379	84870.863	2.5	4D (5D)4D
859.7857	-4.253	86710.837	1.5	4D (5D)4F	98338.280	1.5	4SP(5P)4S	870.4028	-4.607	73637.340	1.5	D5S2(7S)4F
859.8507	-2.133	83136.488	3.5	4D (5D)6F	94763.219	3.5	4SP(5D)6P	870.4495	-3.471	86710.837	1.5	4D (5D)4F
860.3497	-4.545	54902.315	1.5	D6S (3P)2P	66522.304	2.5	4P (3G)4F	870.7090	-4.952	104380.940	3.5	5D (5D)6F
860.4645	-2.287	102666.694	0.5	6S (5D)6D	91048.526	1.5	5P (5D)4D	871.0026	-3.515	104873.230	3.5	5D (5D)4D
860.4909	-3.316	54904.222	3.5	D6S (3F)2F	66522.304	2.5	4P (3G)4F	871.3646	-1.401	102543.648	1.5	6S (5D)6D
860.7370	-3.364	105763.270	5.5	4D (3F)2H	94148.526	4.5	4SP(5G)4G	871.3677	-4.019	54904.222	3.5	D6S (3F)2F
860.7861	-1.283	102394.718	3.5	6S (5D)4D	90780.621	3.5	5P (5D)4F	871.4066	-2.181	102666.694	0.5	6S (5D)6D
861.1597	-3.453	57493.321	1.5	D5S2(7S)4P	69102.380	2.5	4SP(5S)4P	872.0683	-4.322	54232.195	5.5	D5S2(7S)4G
861.6842	-3.012	60441.033	1.5	D5S2(7S)4D	72043.026	1.5	4P (3D)4F	872.2346	-4.447	105449.540	3.5	5D (5D)4G
861.7394	-2.309	105589.420	3.5	4D (3F)4H	93988.170	2.5	4SP(5G)4G	872.2565	-4.118	105449.540	3.5	5D (5D)4G
861.9994	-4.651	60445.275	2.5	D5S2(7S)4D	72043.026	1.5	4P (3D)4F	872.2565	-4.118	105449.540	3.5	5D (5D)4G
862.1100	-3.320	86599.738	2.5	4D (5D)4F	91208.887	1.5	5P (5D)4F	872.3246	-0.439	79439.467	3.5	5S (5D)4D
862.3210	-0.552	102802.312	2.5	6S (5D)4D	91208.887	1.5	5P (5D)4F	872.3584	-4.797	105291.010	3.5	4D (3F)4G
862.8380	-4.466	49506.934	1.5	D6S (3P)4P	61093.413	2.5	4P (3P)2D	872.5472	-4.470	105288.530	1.5	5D (5D)6G
862.9436	-3.389	103751.660	5.5	4D (3H)4H	92166.600	5.5	4SP(5G)4H	872.7396	-2.632	83308.194	2.5	4D (5D)6F
863.0754	-4.956	50142.786	2.5	D6S (3F)4F	61726.077	3.5	4P (3P)4D	873.0296	-2.211	105524.461	4.5	4D (3F)4H
863.3558	-4.532	83459.670	1.5	4D (5D)6F	95039.200	1.5	4P (3P)2P	873.2607	-3.460	105288.530	1.5	5D (5D)6G

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WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
873.7095	-3.876	103608.909	4.5	5S (3G)2G	92166.600	5.5	4SP(5G)4H	883.7773	-1.451	101698.489	4.5	6S (5D)6D	90386.528	4.5	5P (5D)4F
874.1166	-2.010	100492.020	3.5	5S (3F)2F	111929.000	2.5	290DD	883.8808	-3.690	73393.745	4.5	D5S2(7S)4F	62083.108	4.5	4P (3H)2G
874.2497	-1.698	102334.112	2.5	6S (5D)6D	90898.873	1.5	4P (3F)4P	883.8921	-4.989	84685.198	3.5	4D (5D)4D	95995.690	2.5	4SP(5P)4D
874.3567	-3.841	103600.440	6.5	4D (3H)4H	92166.600	5.5	4SP(5P)4H	883.9259	-4.174	104705.420	3.5	5D (5D)6D	65350.360	2.5	4P (3F)4F
874.3689	-4.611	84424.430	1.5	4D (5D)6P	95858.050	1.5	4SP(5P)4D	884.2120	-3.962	54273.641	4.5	D5S2(7S)4G	95580.041	5.5	4P (3G)4G
874.4218	-1.159	102334.112	2.5	6S (5D)6D	90901.124	2.5	5P (5D)4P	884.4905	-3.886	105291.010	3.5	4D (3F)4G	93988.170	2.5	4SP(5G)4G
874.5758	-2.578	83308.194	2.5	4D (5D)6F	94739.170	1.5	4SP(5P)4P	884.6642	-2.216	101698.489	4.5	6S (5D)6D	90397.868	3.5	5P (3D)4D
874.6686	-4.150	50157.452	4.5	D6S (3F)4F	61587.214	5.5	4P (3H)4I	884.7468	-4.762	77230.900	4.5	D5S2(7S)2H	65931.334	3.5	4P (3G)4G
874.9035	-3.434	73492.215	3.5	D5S2(7S)4F	62065.521	3.5	4P (3F)4F	884.9641	-3.199	105127.770	2.5	5D (5D)4D	93830.979	2.5	4SP(5D)6D
874.9559	-2.532	105414.180	2.5	4D (3F)4G	93988.170	2.5	4SP(5G)4G	885.1161	-4.053	82853.658	5.5	4D (5D)6F	94148.510	4.5	4SP(5G)4G
875.2326	-2.758	54273.641	4.5	D5S2(7S)4G	65696.038	4.5	4P (3G)4G	885.1647	-4.100	103983.510	3.5	5S (3G)2G	92695.374	2.5	4P (3P)2D
875.2459	-2.644	103265.694	0.5	6S (5D)4D	91843.470	1.5	5P (5D)6P	885.6981	-2.232	105127.770	2.5	5D (5D)4D	93840.340	1.5	4SP(5D)6D
875.3343	-2.935	83459.670	1.5	4D (5D)6F	94880.740	0.5	4SP(5P)4P	885.8824	-1.460	102334.112	2.5	6S (5D)6D	91048.256	1.5	5P (5D)4D
875.4051	-3.512	81734.750	3.5	D5S2(7S)2F	90810.604	4.5	4P (3G)2G	885.8886	-4.606	84710.685	3.5	4D (5D)6G	95995.690	2.5	4SP(5P)4D
875.8019	-3.668	103265.694	0.5	6S (5D)4D	91850.722	0.5	4SP(5D)6F	886.0742	-4.130	54273.641	4.5	D5S2(7S)4G	65556.280	4.5	4P (3H)2H
875.9672	-4.505	54283.220	3.5	D5S2(7S)4G	65696.038	4.5	4P (3G)4G	886.1895	-3.369	79885.493	2.5	5S (5D)4D	91167.937	3.5	5P (5D)6P
877.1165	-2.969	101698.489	4.5	6S (5D)6D	90300.625	3.5	5P (5D)6F	886.1949	-4.573	104411.690	4.5	5D (5D)6D	93129.900	3.5	4P (3F)4D
877.1704	-3.268	80177.975	1.5	5S (5D)4D	91575.139	2.5	5P (5D)6P	886.3208	-2.331	83459.670	1.5	4D (5D)6F	94739.170	1.5	4SP(5P)4P
877.5048	-3.463	73637.340	1.5	D5S2(7S)4F	62244.520	1.5	4P (3F)4F	886.6800	-1.953	103118.400	1.5	6S (5D)4D	91843.470	1.5	5P (5D)6P
877.5068	-9.129	27620.412	2.5	D6S (3F)2F	39013.206	1.5	4P (5D)6D	886.8271	-4.796	54283.220	3.5	D5S2(7S)4G	65556.280	4.5	4P (3H)2H
877.5321	-4.537	83308.194	2.5	4D (5D)6F	94700.660	2.5	4P (3F)2D	887.0419	-3.877	73395.930	2.5	D5S2(7S)4F	62125.600	1.5	4P (3P)2D
877.5611	-1.306	102030.912	3.5	6S (5D)6D	90638.822	2.5	5P (5D)4D	887.2507	-4.080	103118.400	1.5	6S (5D)4D	91850.722	0.5	4SP(5D)6F
877.8261	-3.099	104873.230	3.5	5D (5D)4D	93484.580	4.5	4P (3F)4F	887.3091	-0.760	77861.625	4.5	5S (5D)6D	89128.561	3.5	4SP(5P)6P
878.0628	-3.723	104873.230	3.5	5D (5D)4D	93487.650	3.5	4P (3F)4F	887.5747	-1.811	102334.112	2.5	6S (5D)6D	91070.547	2.5	5P (5D)4F
878.1909	-3.706	104868.500	4.5	5D (5D)6G	93484.580	4.5	4P (3F)4F	888.0803	-3.374	105288.530	1.5	5D (5D)6G	94031.378	0.5	4SP(5D)6D
878.4278	-3.077	104868.500	4.5	5D (5D)6G	93487.650	3.5	4P (3F)4F	888.5628	-4.889	104380.940	3.5	5D (5D)6F	93129.900	3.5	4P (3F)4D
878.4831	-4.526	103983.510	3.5	5S (3G)2G	92602.703	4.5	4P (3F)2G	888.6179	-2.132	105398.852	5.5	4D (3F)4H	94148.510	4.5	4SP(5G)4G
878.5822	-1.545	104863.430	5.5	5D (5D)4G	93484.580	4.5	4P (3F)4F	888.6219	-0.802	102030.912	3.5	6S (5D)6D	90780.621	3.5	5P (5D)4F
878.7331	-1.997	83308.194	2.5	4D (5D)6F	94685.090	2.5	4SP(5D)6P	889.0899	-3.311	73395.930	2.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F
878.7791	-4.786	105449.540	3.5	5D (5D)4G	94073.240	3.5	4SP(5G)4G	889.3572	-4.955	83459.670	1.5	4D (5D)6F	94700.660	2.5	4P (3F)2D
878.8061	-4.208	105524.461	4.5	4D (3F)4H	94148.510	4.5	4SP(5G)4G	889.5506	-6.336	27620.412	2.5	D6S (3F)2F	38858.958	2.5	4P (5D)6D
878.8941	-3.092	105205.790	2.5	5D (5D)6G	93830.979	2.5	4SP(5D)6D	889.6096	-4.272	105449.540	3.5	5D (5D)4G	94211.739	2.5	4SP(5P)4P
879.6180	-2.643	105205.790	2.5	5D (5D)6G	93840.340	1.5	4SP(5D)6D	889.7811	-2.994	73393.745	4.5	D5S2(7S)4F	62158.110	4.5	4P (3F)4F
879.6555	-3.712	78525.407	2.5	5S (5D)6D	98980.373	3.5	4P (3F)4G	890.5907	-2.427	83459.670	1.5	4D (5D)6F	94685.090	2.5	4SP(5D)6P
880.4134	-4.213	50157.452	4.5	D6S (3F)4F	61512.634	4.5	4P (3H)4I	889.8590	-2.007	105065.630	3.5	5D (5D)6G	93830.979	2.5	4SP(5D)6D
880.7896	-9.086	30764.485	3.5	D6S (3G)2G	42114.818	4.5	4P (5D)6F	890.4517	-1.661	102802.312	2.5	6S (5D)4D	91575.139	2.5	5P (5D)6P
880.7975	-1.979	103600.440	6.5	4D (3H)4H	92250.210	6.5	4SP(5G)4H	890.4746	-4.499	83812.316	2.5	4D (5D)6D	95039.200	1.5	4P (3P)2P
880.8353	-3.739	103265.694	0.5	6S (5D)4D	91915.950	1.5	4SP(5D)6F	890.4828	-1.739	102394.718	3.5	6S (5D)4D	91167.937	3.5	5P (3D)6P
880.9826	-2.296	54232.195	5.5	D5S2(7S)4G	65580.041	5.5	4P (3G)4G	890.5907	-2.427	83459.670	1.5	4D (5D)6F	94685.090	2.5	4SP(5D)6P
881.0991	-3.368	54902.315	1.5	D6S (3P)2P	66248.660	0.5	4P (3P)2S	890.7286	-4.003	105211.140	4.5	5D (5D)4G	93887.457	3.5	4SP(5D)6D
881.1942	-7.934	27314.922	3.5	D6S (3F)2F	38660.043	3.5	4D (5D)6D	890.9360	-4.797	104120.270	2.5	5D (5D)6P	92989.200	2.5	4P (3F)4D
881.2889	-2.043	102543.648	1.5	6S (5D)6D	91199.746	0.5	5P (5D)4D	890.9543	-3.112	104705.420	3.5	5D (5D)6D	93484.580	4.5	4P (3F)4F
881.3333	-4.312	84424.370	1.5	4D (5D)6P	95767.700	0.5	4SP(5P)4D	891.1534	-4.781	105205.790	2.5	5D (5D)6G	93987.457	3.5	4SP(5D)6D
881.5024	-0.656	79439.467	3.5	5S (5D)4D	90780.621	3.5	5P (5D)4F	891.1581	-3.514	104705.420	3.5	5D (5D)6D	93487.650	3.5	4P (3F)4F
881.5191	-3.259	105414.180	2.5	4D (3F)4G	94073.240	3.5	4SP(5G)4G	891.1981	-2.388	105291.010	3.5	4D (3F)4G	94073.240	3.5	4SP(5G)4G
881.5413	-4.168	73492.215	3.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F	891.7328	-4.771	81734.750	3.5	D5S2(7S)2F	70523.700	3.5	4P (3G)2G
881.5525	-4.545	82853.658	5.5	5D (5D)6F	93487.650	3.5	4P (3F)4F	891.8976	-4.095	105398.852	5.5	4D (3F)4H	94189.880	5.5	4SP(5G)4G
881.8859	-2.574	102543.648	1.5	6S (5D)6D	91208.887	1.5	5P (5D)4F	892.0726	-1.465	78237.685	3.5	5S (5D)6D	89444.458	2.5	4SP(5P)6P
882.0307	-4.902	73492.215	3.5	D5S2(7S)4F	62065.521	3.5	4P (3F)4F	892.2842	-0.877	103118.400	1.5	6S (5D)4D	94057.773	4.5	4SP(5D)6D
882.3333	-4.471	73395.930	2.5	D5S2(7S)4F	62065.521	3.5	4P (3F)4F	892.4169	-3.727	103118.400	1.5	6S (5D)4D	91915.950	1.5	4SP(5D)6D
882.5086	-3.955	73393.745	4.5	D5S2(7S)4F	62065.521	3.5	4P (3F)4F	892.6635	0.186	79439.467	3.5	5D (5D)4D	90638.822	2.5	5P (5D)4D
882.6469	-3.864	103608.909	4.5	6S (3G)2G	92282.460	3.5	4SP(5G)4F	892.6988	-3.471	105230.290	0.5	5D (5D)4D	94033.378	0.5	4SP(5D)6D
882.7738	-3.983	50187.813	3.5	D6S (3F)4F	61512.634	4.5	4P (3H)4I	893.4415	-4.547	50142.786	2.5	D6S (3F)4F	61332.174	1.5	4P (3P)4P
882.7848	-3.476	103751.660	5.5	4D (3H)4H	92426.980	4.5	4SP(5G)4F	893.8048	-0.343	79885.493	2.5	5S (5D)4D	91070.547	2.5	5P (5D)4F
882.8244	-0.473	102394.718	3.5	6S (5D)4D	91070.547	2.5	5P (5D)4F	894.0546	-4.110	103608.909	4.5	5S (3G)2G	92426.980	4.5	4SP(5G)4F
882.8850	-0.240	79885.493	2.5	5D (5D)4D	91208.887	1.5	5P (5D)4F	894.1585	-2.820	83459.670	1.5	4D (5D)6F	94739.170	1.5	4SP(5P)4P
882.9781	-2.606	83558.540	0.5	4D (5D)6F	94880.740	0.5	4SP(5P)4P	894.2737	-1.861	100749.810	2.5	5S (3F)2F	111929.000	2.5	290DD

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
894.6051	-4.392	31483.176	3.5	D6S (3F)4D	42658.224	3.5	4P (5D)6P	908.1166	-1.367	82978.677	4.5	4D (5D)6F
894.6853	-4.253	54904.222	3.5	D6S (3F)2F	66078.269	2.5	4P (3D)4G	908.1603	-4.504	81639.260	2.5	D5S2(7S)2F
894.8311	-4.438	85184.734	4.5	4D (5D)4G	96356.960	3.5	4SF(3G)2F	908.1928	-3.873	105065.630	3.5	5D (5D)6G
895.0228	-4.083	82978.677	4.5	4D (5D)6F	94148.510	4.5	4SF(5G)4G	908.2291	-2.305	101555.090	4.5	4D (3F)2G
895.0267	-4.248	73492.215	3.5	D5S2(7S)4F	62322.431	3.5	4P (3H)2G	908.3290	-4.358	103608.909	4.5	5S (3G)2G
895.1991	-4.759	105155.090	4.5	4D (3F)4G	93987.457	3.5	4SF(5D)6D	908.7132	-4.301	78725.790	1.5	5S (3D)6D
895.3160	-1.301	102334.112	2.5	6S (5D)6D	91167.937	3.5	5P (5D)6P	909.0744	-2.565	104828.160	2.5	4SF(5D)6D
895.4544	-4.214	81734.750	3.5	D5S2(7S)2F	92899.200	2.5	4P (3F)4D	909.3332	-4.597	105205.790	2.5	5D (5D)6G
895.5897	-0.084	79885.493	2.5	5S (5D)4D	91048.256	1.5	5P (5D)4D	909.5105	0.235	77861.625	4.5	5S (5D)6D
896.3442	-3.651	105211.140	4.5	5D (5D)4G	94057.773	4.5	4SF(5D)6D	909.6378	-4.765	104120.270	2.5	5D (5D)6P
896.5015	-3.816	73395.930	2.5	D5S2(7S)4F	62244.520	1.5	4P (3F)4F	909.8489	-1.490	104828.160	2.5	5D (5D)6D
897.0928	-7.846	27314.922	3.5	D6S (3F)2F	38458.981	4.5	4P (5D)6D	909.9065	-4.475	83713.536	3.5	4D (5D)6D
897.2184	-3.095	105291.010	3.5	4D (3F)4G	94148.510	4.5	4SF(5G)4G	910.0344	-3.979	104380.940	3.5	5D (5D)6F
897.2925	-1.898	98130.131	6.5	5S (3H)4H	10927.710	5.5	4SF(3I)2I	910.1466	-2.967	58666.258	3.5	D6S (1G)2G
897.3945	-3.273	105127.770	2.5	5D (5D)4D	93987.457	3.5	4SF(5D)6D	910.7201	-1.623	98294.401	5.5	5S (3H)4H
897.5889	-4.182	105211.140	4.5	5D (5D)4G	94073.240	3.5	4SF(5G)4G	910.9100	-2.873	58631.531	4.5	D6S (1G)2G
898.1130	-2.760	54232.195	5.5	D5S2(7S)4D	65363.595	5.5	4P (3H)2H	911.1143	-1.885	105711.730	2.5	5D (5D)6S
898.2431	-1.546	102030.912	3.5	6S (5D)6D	90901.124	2.5	5P (5D)4F	911.1978	-3.695	83713.536	3.5	4D (5D)6D
898.6115	-2.563	102334.112	2.5	6S (5D)6D	91208.887	1.5	5P (5D)4F	911.4082	-3.868	50187.813	3.5	D6S (3F)4F
898.6437	-3.886	84870.863	2.5	4D (5D)4D	95995.690	2.5	4SF(5P)4D	911.4508	-0.973	102543.648	1.5	6S (5D)6D
898.8749	-4.337	85728.806	1.5	4D (5D)4S	74606.841	2.5	4P (3D)2D	911.6728	-2.719	50075.910	1.5	D6S (3F)4F
899.0388	-2.639	50212.826	2.5	D6S (3F)4F	61332.764	1.5	4P (3F)4P	911.7250	-3.003	105155.090	4.5	4D (3F)4G
899.3934	-3.613	81639.260	2.5	D5S2(7S)2F	70523.706	3.5	4P (3G)2G	911.8364	-3.681	73395.930	2.5	D5S2(7S)4F
899.9491	-2.616	104593.270	5.5	5D (5D)6G	93484.580	4.5	4P (3F)4F	911.8719	-4.375	81639.260	2.5	D5S2(7S)2F
900.6104	-2.748	78525.407	2.5	5S (5D)6D	89625.940	1.5	4SF(5G)4G	912.1065	-3.941	81734.750	3.5	D5S2(7S)2F
900.6804	-3.623	103118.400	1.5	6S (5D)4D	92018.729	2.5	4SF(5D)6F	912.1280	-1.020	102030.912	3.5	6S (3D)6D
900.7375	-2.008	105288.847	6.5	4D (3F)4H	94189.880	5.5	4SF(5G)4G	912.2548	-1.757	102802.312	2.5	6S (5D)4D
900.8176	-4.968	104426.460	2.5	5D (5D)6F	93328.480	1.5	4P (3F)4F	912.2915	0.401	79439.467	3.5	5S (5D)4D
901.9286	-4.951	103983.510	3.5	5S (3G)2G	92899.200	2.5	4P (3F)4D	912.9134	-0.985	103265.694	0.5	6S (5D)4D
902.1288	-3.630	105155.090	4.5	4D (3F)4G	94073.240	3.5	4SF(5G)4G	912.9161	-2.582	83812.316	2.5	4D (5D)6D
902.3530	-1.321	82978.677	4.5	4D (5D)6F	93987.457	3.5	4SF(5D)6D	912.9392	-4.403	50142.786	2.5	D6S (3F)4F
902.4282	-4.320	105065.630	3.5	5D (5D)6G	93987.457	3.5	4SF(5D)6D	913.1156	-3.405	105711.730	2.5	5D (5D)6S
902.6383	-3.500	80177.975	1.5	5S (5D)4D	69102.380	2.5	4SF(5S)4P	913.2365	0.484	79439.467	3.5	5S (5D)4D
902.6662	-3.308	83136.487	3.5	4D (5D)6F	94211.739	2.5	4SF(5P)4P	913.3534	-4.234	105630.750	2.5	5D (5D)4G
902.9873	-4.110	73393.745	4.5	D5S2(7S)4F	62322.431	3.5	4P (3H)2G	913.8014	-3.698	58666.258	3.5	D6S (1G)2G
903.8335	-3.019	78577.280	4.5	D5S2(7S)2G	67516.332	5.5	4P (3G)2H	914.0973	-4.893	83136.487	3.5	4D (5D)6F
903.8451	-4.621	54870.528	2.5	D6S (3F)2F	65931.374	3.5	4P (3G)4G	914.9040	-4.693	104411.690	4.5	5D (5D)6D
904.2287	-4.811	81639.260	2.5	D5S2(7S)2F	92695.374	2.5	4P (3P)2D	914.9254	-2.284	83812.316	2.5	4D (5D)6D
904.7550	-4.672	83713.536	3.5	4D (5D)6D	94763.219	3.5	4SF(5D)6P	915.1611	-3.849	104411.690	4.5	5D (5D)6D
904.7803	-3.689	103265.694	0.5	6S (5D)4D	92216.320	1.5	4P (3P)2D	915.3919	-2.009	83136.487	3.5	4D (5D)6F
904.8647	-1.475	79439.467	3.5	5S (5D)4D	90487.810	2.5	5P (5D)6F	915.5792	-0.075	78525.407	2.5	5S (5D)6D
905.2266	-3.284	80346.016	0.5	5S (5D)4D	69302.090	1.5	4SF(5S)4P	915.5805	-2.595	80346.016	0.5	5S (5D)4D
905.3639	-1.688	104873.230	3.5	5D (5D)4D	93830.979	2.5	4SF(5D)6D	915.6784	-2.542	101698.489	4.5	6S (5D)6D
905.5357	-3.357	103265.694	0.5	6S (5D)4D	92225.538	1.5	5P (5D)4P	915.7705	-2.581	104757.110	0.5	5D (5D)6D
905.8066	-1.838	83726.364	4.5	4D (5D)6D	94763.219	3.5	4SF(5D)6P	915.8325	-2.878	105127.770	2.5	5D (5D)4D
906.1489	-3.472	85184.734	4.5	4D (5D)4G	96217.420	3.5	4SF(5P)4D	915.9157	-4.136	105063.550	5.5	4D (3F)4G
906.2791	-4.267	104426.460	2.5	5D (5D)6F	93395.360	2.5	4P (3F)4F	916.5373	-4.827	84131.563	0.5	4D (5D)6D
906.2946	-0.074	80177.975	1.5	5S (5D)4D	91208.887	1.5	5P (5D)4F	916.5838	-2.255	103265.694	0.5	6S (5D)4D
906.6069	-4.023	54904.222	3.5	D6S (3F)2F	65931.334	3.5	4P (3G)4G	916.7085	-4.216	50187.813	3.5	D6S (3F)4F
906.6457	-3.300	105711.730	2.5	5D (5D)6S	94685.090	2.5	4SF(5D)6P	916.8813	-3.222	83308.194	2.5	4D (5D)6F
907.0462	-0.204	80177.975	1.5	5S (5D)4D	91199.746	0.5	5P (5D)4D	917.0045	-3.400	103118.400	1.5	6S (5D)4D
907.2291	-1.173	98130.131	6.5	5S (3H)4H	109149.680	6.5	4SF(3I)2I	917.1669	-0.479	78725.790	1.5	5S (5D)6D
907.3976	-3.670	50075.910	1.5	D6S (3F)4F	61093.413	2.5	4P (3P)2D	917.2668	-3.825	50142.786	2.5	D6S (3F)4F
907.5518	-0.068	79885.493	2.5	5S (5D)4D	90901.124	2.5	5P (5D)4P	917.4659	-4.403	104380.940	3.5	5D (5D)6F
907.6822	-3.234	50142.786	2.5	D6S (3F)4F	61156.835	3.5	4P (3H)4H	917.5860	-2.952	49506.934	1.5	D6S (3P)4P
907.7373	-0.362	79885.493	2.5	5S (5D)4D	90898.873	1.5	4P (3P)4P	917.5896	0.420	79885.493	2.5	5S (5D)4D
907.7508	-4.813	84844.834	2.5	4D (5D)6G	95858.050	1.5	4SF(5P)4D	917.7444	-4.449	104380.940	3.5	5D (5D)6F
907.8492	-4.558	83136.487	3.5	4D (5D)6F	94148.510	4.5	4SF(5G)4G	917.7805	-2.532	103118.400	1.5	6S (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
917.8049	0.053	80177.975	1.5	5S (5D)4D	91070.547	2.5	5P (5D)4F	927.2218	-0.327	78843.992	0.5	5S (5D)6D	89625.940	1.5	4SP(5P)6P
917.9479	0.179	78237.685	3.5	5S (5D)6D	89128.561	3.5	4SP(5P)6P	927.4685	-2.709	108630.429	5.5	5S (11)2I	97851.350	4.5	4P (1G)2H
917.9646	-2.600	83990.063	1.5	4D (5D)6D	94880.740	0.5	4SP(5P)4F	928.11975	-3.967	54063.459	0.5	D6S (3P)2P	64834.073	1.5	4P (3P)2P
918.3285	-3.222	102802.312	2.5	6S (5D)4D	91915.950	1.5	4SP(5D)6F	928.3394	-3.877	50187.813	3.5	D6S (3F)4F	60956.781	3.5	4P (3H)4G
918.3782	-1.734	104873.230	3.5	5D (5D)4D	93987.457	3.5	4SP(5D)6D	928.7290	-4.478	105449.540	3.5	5D (5D)4G	94685.090	2.5	4SP(5D)6P
918.7158	0.243	78237.685	3.5	5S (5D)6D	89119.457	2.5	5P (5D)6D	929.1312	-2.384	103118.400	1.5	6S (5D)4D	92358.610	1.5	4SP(5G)4F
918.7774	-2.038	104868.500	4.5	5D (5D)6G	93987.457	3.5	4SP(5D)6D	929.2018	-0.564	102334.112	2.5	6S (5D)6D	91575.139	2.5	5P (5D)6P
918.8159	-3.788	50212.826	2.5	D6S (3P)4F	61093.413	2.5	4P (3P)2D	929.3091	-2.422	104598.710	1.5	4SP(5D)6D	93830.979	2.5	4SP(5D)6D
919.2131	-2.465	80177.975	1.5	5S (5D)4D	69302.090	1.5	4SP(5S)4P	929.5832	-4.066	85462.862	3.5	4D (5D)4G	96217.420	3.5	4SP(5P)4D
919.3332	-1.672	104705.420	3.5	5D (5D)6D	93830.979	2.5	4SP(5D)6D	929.6895	-0.033	79885.493	2.5	5S (5D)4D	90638.822	2.5	5P (5D)4D
919.4004	-2.418	105063.550	5.5	4D (3F)4G	94189.880	5.5	4SP(5G)4G	929.7270	0.282	77861.625	4.5	5S (5D)6D	88614.520	4.5	4SP(5P)6D
919.4762	-3.285	83812.316	2.5	4D (5D)6D	94685.090	2.5	4SP(5D)6P	929.7301	-4.840	102842.119	4.5	5S (3G)4G	92089.260	3.5	4SP(5G)4H
919.6338	-4.782	104000.810	3.5	5D (5D)6P	93129.900	3.5	4P (3F)4D	929.7984	-3.662	83459.670	1.5	4D (5D)6F	94211.739	2.5	4SP(5P)4F
919.6870	-4.004	80177.975	1.5	5S (5D)4D	91048.256	1.5	5P (5D)4D	929.8913	-2.602	80177.975	1.5	5S (5D)4D	69426.980	0.5	4SP(5S)4P
919.8840	-4.883	81734.750	3.5	D5S2(7S)2F	92602.703	3.5	4P (3F)2G	929.9130	-2.099	102666.694	0.5	6S (5D)6D	91915.950	1.5	4SP(5D)6F
920.3056	-0.660	102030.912	3.5	6S (5D)6D	91167.937	3.5	5P (5D)6P	930.0486	-2.878	84131.563	0.5	4D (5D)6D	94880.740	0.5	4SP(5P)4P
920.3144	-0.437	80346.016	0.5	5S (5D)4D	91208.887	1.5	5P (5D)4F	930.0546	-3.179	83990.063	1.5	4D (5D)6D	94739.170	1.5	4SP(5P)4P
920.4072	0.248	77861.625	4.5	5S (5D)6D	88723.400	4.5	5P (5D)6D	930.0743	-4.815	105449.540	3.5	5D (5D)4G	94700.660	2.5	4P (3F)2D
920.4595	-0.025	79439.467	3.5	5S (5D)4D	90300.625	3.5	5P (5D)6F	930.1184	-2.067	104588.710	1.5	5D (5D)6D	93840.340	1.5	4SP(5D)6D
920.9580	-0.673	98294.401	5.5	5S (3H)4H	109149.680	6.5	4SP(3I)2I	930.3603	-0.166	78725.790	1.5	5S (5D)6D	89471.360	0.5	5P (5D)6D
921.0758	-3.391	105065.630	3.5	5D (5D)6G	94211.739	2.5	4SP(5P)4P	930.5809	-3.482	54063.459	0.5	D6S (3P)2P	64806.487	0.5	4P (3P)2P
921.0895	-0.553	80346.016	0.5	5S (5D)4D	91199.746	0.5	5P (5D)4D	931.6981	-3.758	50157.452	4.5	D6S (3F)4F	60887.598	5.5	4P (3H)4H
921.0997	-4.676	103983.510	3.5	5S (3G)2C	93129.900	3.5	4P (3F)4D	932.0120	-3.094	86599.738	2.5	4D (5D)4F	9326.270	1.5	4SP(3P)2P
921.3238	-1.459	83136.487	3.5	4D (5D)6F	93987.457	3.5	4SP(5D)6D	932.0816	-2.024	104757.110	0.5	5D (5D)6D	94031.378	0.5	4SP(5D)6D
921.3565	-3.756	88157.116	1.5	4D (5D)4P	99007.700	0.5	4SP(5D)6D	932.1157	-3.558	102842.119	4.5	5S (3G)4G	92116.780	4.5	4SP(5G)4H
921.8921	-3.027	103118.400	1.5	6S (5D)4D	92274.120	2.5	4P (3P)4P	932.1530	-4.338	104120.270	2.5	5S (5D)4D	90395.360	2.5	4P (3F)4F
921.9633	-3.040	104828.160	2.5	6D (5D)6D	93987.457	3.5	4SP(5D)6D	932.3061	-0.060	80177.975	1.5	5S (5D)4D	90901.124	2.5	5P (5D)6D
922.5933	-4.093	54273.641	4.5	D5S2(7S)4G	65109.679	3.5	4P (3F)2G	932.3660	-4.481	73637.340	1.5	D5S2(7S)4F	84359.800	1.5	4P (1F)2D
922.7633	-3.941	54275.637	2.5	D5S2(7S)4G	65109.679	3.5	4P (3H)4H	932.5018	-0.028	80177.975	1.5	5S (5D)4D	90818.873	1.5	4SP(5P)4D
922.9380	-4.144	50157.452	4.5	D6S (3F)4F	60989.444	4.5	4P (3H)4H	932.6067	-4.657	99573.225	4.5	5S (3F)4F	88853.533	3.5	5P (5D)6D
923.1996	-4.697	50212.826	2.5	D6S (3P)4P	61041.748	2.5	4P (3H)4G	932.6365	-4.663	81639.260	2.5	D5S2(7S)2F	92358.610	1.5	4SP(5G)4F
923.4096	-3.211	54283.220	3.5	D5S2(7S)4G	65109.679	3.5	4P (3F)2G	932.6584	-4.884	85048.602	1.5	4D (5D)4D	95767.700	0.5	4SP(5P)4D
923.4223	-0.947	98445.400	4.5	5S (3H)4H	109271.170	5.5	4SP(3I)2I	932.6958	-0.274	78725.790	1.5	5S (5D)6D	89444.458	2.5	4SP(5P)6P
923.6856	-0.787	102666.694	0.5	6S (5D)6D	91843.470	1.5	5P (5D)6P	932.7572	-2.060	104705.420	3.5	5D (5D)6D	93987.457	3.5	4SP(5D)6D
923.9020	-4.757	103950.590	4.5	5D (5D)6F	93129.900	3.5	4P (3F)4D	932.8192	-4.873	104705.420	3.5	5D (5D)6D	93988.170	2.5	4SP(5G)4G
923.9968	-1.118	102394.718	3.5	6S (5D)4D	91575.139	2.5	5P (5D)6P	932.8921	-4.300	104803.430	5.5	6S (5D)4G	94148.510	4.5	4SP(5G)4G
924.0745	-3.437	88189.030	0.5	4D (5D)4P	99007.700	0.5	4SP(5D)6D	933.0221	-4.300	104803.430	5.5	6S (5D)4G	94148.510	4.5	4SP(5G)4G
924.3050	-4.073	102666.694	0.5	6S (5D)6D	91850.722	0.5	4SP(5D)6F	933.1848	-4.768	102802.312	2.5	6S (5D)4D	92089.260	3.5	4SP(5G)4H
924.3490	-2.648	104873.230	3.5	5D (5D)4D	94057.773	4.5	4SP(5D)6D	933.2513	-4.429	84326.912	2.5	4D (5D)6P	90399.200	1.5	4P (3P)2P
924.4739	-2.604	50142.786	2.5	D6S (3F)4F	60956.781	3.5	4P (3H)4G	933.3987	-4.795	83990.063	1.5	4D (5D)6D	94700.660	2.5	4P (3F)2D
924.6245	-2.779	103265.694	0.5	6S (5D)4D	92453.460	0.5	4P (3F)4D	933.6247	-4.014	79885.493	2.5	5S (5D)4D	90593.497	1.5	5P (5D)6F
924.7534	-3.588	104868.500	4.5	5D (5D)6G	94057.773	4.5	4SP(5D)6D	934.1275	-0.034	80346.016	0.5	4D (5D)4D	91048.256	1.5	5P (5D)4D
924.8628	-4.273	85048.602	1.5	4D (5D)4D	95858.080	1.5	4SP(5P)4D	934.1075	-0.681	102543.648	1.5	6S (5D)6D	91843.470	1.5	5P (5D)6P
924.9641	-4.522	73637.340	1.5	D5S2(7S)4F	62829.075	0.5	4P (3P)4D	934.7575	-2.294	83990.063	1.5	4D (5D)6D	94685.090	2.5	4SP(5D)6P
925.1761	0.110	78525.407	2.5	5S (5D)6D	89331.195	1.5	5P (5D)6D	934.8043	-1.805	83136.487	3.5	4D (5D)6F	93830.979	2.5	4SP(5D)6D
925.1873	-2.592	104863.430	5.5	5D (5D)4G	94057.773	4.5	4SP(5D)6D	934.9412	-3.935	102543.648	1.5	6S (5D)6D	91850.722	0.5	4SP(5D)6D
925.3599	-1.210	103118.400	1.5	6S (5D)4D	92314.758	0.5	5P (5D)4P	935.0021	-4.895	81734.750	3.5	D5S2(7S)2F	92426.980	4.5	4SP(5G)4F
925.4718	-3.468	73492.215	3.5	D5S2(7S)4F	62689.880	2.5	4P (3P)4D	935.1420	-4.357	81639.260	2.5	D5S2(7S)2F	92329.890	2.5	4SP(5G)4F
925.5321	-3.062	50187.813	3.5	D6S (3F)4F	60989.444	4.5	4P (3H)4H	935.3761	-4.710	102842.119	4.5	5S (3G)4G	92154.165	3.5	4SP(5D)6F
925.7190	-2.871	104630.430	1.5	5D (5D)6P	93830.979	2.5	4SP(5D)6D	935.5191	-4.705	105449.540	3.5	5D (5D)4G	94763.219	3.5	4SP(5D)6P
926.0784	-4.489	104868.500	4.5	5D (5D)6G	94073.240	3.5	4SP(5G)4G	936.1374	-1.961	83308.194	2.5	4D (5D)6F	93987.457	3.5	4SP(5D)6D
926.3739	-4.691	54904.222	3.5	D6S (3F)2F	65696.038	4.5	4P (3G)4F	936.1447	-1.042	98130.131	6.5	5S (3H)4H	108809.610	5.5	4SP(3G)4H
926.6030	-4.691	98130.131	6.5	5S (3H)4H	87340.983	5.5	4SP(5G)6F	936.4657	-2.123	102842.119	4.5	5S (3G)4G	92166.300	5.5	4SP(5G)4H
926.6578	-2.026	103118.400	1.5	6S (5D)4D	92329.890	2.5	4SP(5G)4F	937.3946	-3.130	103118.400	1.5	6S (5D)4D	92453.460	0.5	4P (3F)4D
927.0013	-3.643	87985.628	2.5	4D (5D)4P	98770.140	1.5	4SP(5D)4D	937.6966	-0.836	80177.975	1.5	5S (5D)4D	90839.480	0.5	4P (3P)4P
927.0812	-4.229	102802.312	2.5	6S (5D)4D	92018.729	2.5	4SP(5D)6F	937.6978	-2.424	104873.230	3.5	5D (5D)4D	94211.739	2.5	4SP(5P)4P
927.1216	-2.556	79885.493	2.5	5S (5D)4D	69102.380	2.5	4SP(5S)4P	938.5282	-4.302	54904.222	3.5	D6S (3F)2F	65556.280	4.5	4P (3H)2H

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
959.1512	-2.740	103118.400	1.5	6S (5D)4D	92695.374	2.5	4P (3F)2D	971.6178	-1.816	104120.270	2.5	5D (5D)6P	93830.979	2.5	4SP(5D)6D
959.2322	-4.773	83726.364	4.5	4D (5D)6D	94148.510	4.5	4SP(5G)4G	972.0529	-4.076	102584.963	5.5	5S (3G)4G	92300.277	4.5	4SP(5D)6F
959.5503	-4.452	104630.430	1.5	5D (5D)6P	94211.739	2.5	4SP(5F)4P	972.1285	-3.596	80346.016	0.5	5S (5D)6F	90629.902	1.5	4P (3P)4S
959.5647	-2.105	84266.556	3.5	4D (5D)6P	94685.090	2.5	4SP(5D)6P	972.3257	-2.380	83558.540	0.5	4D (5D)6F	93840.340	1.5	4SP(5D)6D
959.5805	-3.742	102584.963	5.5	5S (3G)4G	92166.600	5.5	4SP(5G)4H	972.5026	-2.484	104120.270	2.5	5D (5D)6P	93840.340	1.5	4SP(5D)6D
959.5990	-2.420	102334.112	2.5	6S (5D)6D	91915.950	1.5	4SP(5D)6F	972.6911	-4.066	102394.718	3.5	6S (5D)6D	92116.780	4.5	4SP(5G)4H
959.8422	-1.913	80177.975	1.5	5S (5D)4D	90593.497	1.5	5P (5D)6F	972.7164	-4.906	78275.790	1.5	5S (5D)6D	89003.460	0.5	4P (3P)2S
959.8775	-3.136	102842.119	4.5	5S (3G)4G	92426.980	4.5	4SP(5G)4F	972.8595	-0.308	98294.401	5.5	5S (3H)4H	108570.560	4.5	4SP(3G)4G
959.8782	-0.039	79885.493	2.5	5S (5D)4D	90300.625	3.5	5P (5D)6F	973.0714	-4.243	83713.536	3.5	4D (5D)6D	93987.457	3.5	4SP(5D)6D
960.0436	-1.901	108804.667	3.5	5S (3D)4D	98391.330	3.5	4SP(5D)4D	973.4876	-3.503	102543.668	1.5	5S (3D)4D	92274.120	2.5	4P (3P)4F
960.0519	-3.386	102584.963	5.5	5S (3G)4G	92171.716	4.5	4P (3F)2G	973.5550	-3.212	108804.667	3.5	5S (3D)4D	98535.850	3.5	4SP(5D)4F
960.1431	-2.296	84326.912	2.5	4D (5D)6P	94739.170	1.5	4SP(5F)4P	973.7197	-3.068	103751.660	5.5	4D (3H)4H	93484.580	4.5	4P (3F)4F
960.3530	-3.734	102842.119	4.5	5S (3G)4G	92432.136	5.5	4SP(5D)6F	974.4338	-4.950	85728.806	1.5	4D (5D)4S	95959.690	2.5	4SP(5P)4D
960.5053	-4.052	105288.530	1.5	4SP(5D)6G	94880.740	0.5	4SP(5F)4P	975.0098	-4.664	84840.863	1.5	4D (5D)4D	74606.841	2.5	4P (3D)2D
960.7481	-2.749	87985.628	2.5	4D (5D)4P	98391.330	3.5	4SP(5D)4D	974.2879	-1.254	83726.364	4.5	4D (5D)6D	93987.457	3.5	4SP(5D)6D
961.3281	-4.130	83812.316	2.5	4D (5D)6D	94211.739	2.5	4SP(5F)4P	974.4338	-4.958	10142.786	2.5	D6S (3F)4F	60402.342	2.5	4P (3P)4F
961.7888	-4.247	84685.198	3.5	4D (5D)4D	95079.640	3.5	4P (3F)2F	974.4987	-4.370	83136.487	3.5	4D (5D)6F	93395.360	2.5	4P (3F)4F
961.8605	-0.448	78725.790	1.5	5S (5D)6D	89119.457	2.5	5P (5D)6D	975.5820	-1.025	80346.016	0.5	5S (5D)4D	90593.497	1.5	5P (5D)6F
961.8776	-2.547	104380.940	3.5	5D (5D)6F	93987.457	3.5	4SP(5D)6D	975.8324	-4.130	102334.112	2.5	6S (5D)6D	92089.260	3.5	4SP(5G)4H
962.3297	-3.286	105127.770	2.5	5D (5D)4D	94739.170	1.5	4SP(5F)4P	976.2421	-4.437	102394.718	3.5	6S (5D)4D	92154.165	3.5	4SP(5D)6F
963.0648	-1.884	83459.670	1.5	4D (5D)6F	93840.340	1.5	4SP(5D)6D	976.3505	-2.912	102842.119	4.5	5S (3G)4G	92602.703	3.5	4P (3F)2G
963.0769	-2.658	105065.630	3.5	5D (5D)6G	94685.090	2.5	4SP(5D)6P	976.3757	-4.889	54870.528	2.5	D6S (3F)2F	65109.679	3.5	4P (3F)2G
963.2227	-4.778	73492.215	3.5	D5S2 (7S)4F	83871.184	4.5	4P (1F)2G	976.7956	-3.000	84520.778	4.5	4D (5D)6G	94763.219	3.5	4SP(5D)6P
963.4081	-3.376	104588.710	1.5	5D (5D)6D	94211.739	2.5	4SP(5F)4P	976.9952	-4.086	86124.301	4.5	4D (5D)4F	96356.960	3.5	4SP(3G)2F
963.4207	-0.265	78237.685	3.5	5S (5D)6D	88614.520	4.5	4SP(5F)6D	977.0170	-4.909	104380.940	3.5	5D (5D)6F	94148.510	4.5	4SP(5G)4G
963.4765	-3.205	73492.215	3.5	D5S2 (7S)4F	83868.450	2.5	4P (1F)2D	977.3552	-2.920	102543.648	1.5	6S (5D)6D	92314.758	0.5	5P (5D)4P
963.4993	-4.030	102394.718	3.5	6S (5D)4D	92018.729	2.5	4SP(5D)6D	977.9181	-3.102	102394.718	3.5	6S (5D)4D	92171.716	4.5	4P (3F)2G
963.9341	-2.123	83459.670	1.5	4D (5D)6F	93830.979	2.5	4SP(5D)6D	978.0449	-3.636	83990.063	1.5	4D (5D)6D	94211.739	2.5	4SP(5P)4P
964.0627	-2.694	108648.695	6.5	5S (11)2I	98278.770	5.5	4P (1G)2H	978.2819	-2.277	103118.400	1.5	6S (5D)4D	92899.200	2.5	4P (3F)4D
964.1457	-3.161	87985.628	2.5	4D (5D)4P	98354.660	2.5	4SP(5D)4F	978.7109	-3.644	104426.460	2.5	5D (5D)6F	94211.739	2.5	4SP(5P)4P
964.2343	-4.064	105414.180	2.5	4D (5F)4G	95046.100	2.5	4P (3F)2F	978.7293	-4.347	50187.813	3.5	D6S (3D)4D	60402.342	2.5	4P (3F)4P
964.5626	-4.028	105127.770	2.5	5D (5D)4D	94763.219	3.5	4SP(5D)6P	978.8032	-4.486	102543.648	1.5	6S (5D)6D	92329.890	2.5	4SP(5G)4F
964.6222	-1.249	98445.400	4.5	5S (3H)4H	108809.310	5.5	4SP(3G)4H	978.8534	-4.700	102666.694	0.5	6S (5D)6D	92453.460	0.5	4P (3F)4D
965.1560	-2.512	84326.912	2.5	4D (5D)6P	94685.090	2.5	4SP(5D)6P	979.0321	-4.496	105291.010	3.5	4D (3F)4G	95079.640	3.5	4P (3F)2F
965.5532	-1.422	104411.690	4.5	5D (5D)6D	94057.773	4.5	4SP(5D)6D	979.2807	-4.982	84870.863	2.5	4D (5D)4D	95079.640	3.5	4P (3F)2F
965.5698	-0.473	98130.131	6.5	5S (3H)4H	108483.870	5.5	4SP(3G)4G	979.3536	-2.988	108804.667	3.5	5S (3D)4D	98596.650	4.5	4SP(5D)4F
965.6712	-4.106	87985.628	2.5	4D (5D)4P	98338.280	1.5	4SP(5F)4S	979.5993	-3.694	88157.116	1.5	4D (5D)4D	92602.703	3.5	4P (3F)2G
965.7380	-3.236	102666.694	0.5	6S (5D)6D	92314.758	0.5	5P (5D)4P	980.1610	-2.316	102802.312	2.5	6S (5D)4D	98358.660	2.5	4SP(5D)4F
965.7639	-4.307	108630.429	5.5	5S (11)2I	98278.770	5.5	4P (1G)2H	980.3595	-3.354	88157.116	1.5	4D (5D)4D	98358.660	2.5	4SP(5D)4F
965.8101	-4.337	88136.487	3.5	4D (5D)6F	93487.650	3.5	4P (3F)4F	980.9671	-3.425	99918.569	1.5	5S (3F)4F	89727.342	2.5	4P (3F)4G
965.9607	-2.714	105230.290	0.5	5D (5D)4D	94880.740	0.5	4SP(5F)4P	981.1318	-2.796	50212.826	2.5	D6S (3P)4P	60402.342	2.5	4P (3P)4G
966.1068	-3.494	88157.116	1.5	4D (5D)4P	98505.100	2.5	4SP(5D)4D	981.1364	-0.580	98294.401	5.5	5S (3H)4H	108483.870	5.5	4SP(3G)4G
966.1217	-0.580	77861.625	4.5	5S (5D)6D	88209.450	3.5	4SP(5F)6D	981.2099	-3.548	57578.484	0.5	D5S2 (7S)4F	47389.779	1.5	4P (5D)4P
966.4568	-1.609	83713.536	3.5	4D (5D)6D	94057.773	4.5	4SP(5D)6D	981.2644	-3.521	104873.230	3.5	5D (5D)4D	94685.090	2.5	4SP(5D)6P
967.0653	-0.302	98568.912	3.5	5S (3H)4H	108906.640	3.5	4SP(3G)4H	981.5004	0.127	98445.400	4.5	5S (3H)4H	108631.090	3.5	4SP(3G)4G
967.1253	-1.925	79439.467	3.5	5S (5D)6D	69102.380	2.5	4SP(5S)4P	981.6532	-3.888	102543.648	1.5	6S (5D)6D	92358.610	1.5	4SP(5G)4F
967.3437	-2.013	102584.963	5.5	5S (3G)4G	92250.210	6.5	4SP(5G)4H	981.6399	-3.047	78185.030	3.5	D5S2 (7S)2G	68000.788	4.5	4P (3G)2H
967.6588	-1.345	83726.364	4.5	4D (5D)6D	94057.773	4.5	4SP(5D)6D	981.9367	-4.359	88157.116	1.5	4D (5D)4P	98338.280	1.5	4SP(5P)4S
967.9644	-0.585	78525.407	2.5	5S (5D)6D	88853.533	3.5	5P (5D)6D	982.0541	-2.995	102334.112	2.5	6S (5D)6D	92154.165	3.5	4SP(5D)6F
968.4294	-1.642	104380.940	3.5	5D (5D)6F	94057.773	4.5	4SP(5D)6D	982.1015	-4.799	83308.194	2.5	4D (5D)6F	93487.650	3.5	4P (3F)4F
968.9040	-3.218	102543.648	1.5	6S (5D)6D	92225.538	1.5	5P (5D)4P	982.2080	-3.903	85679.698	2.5	4D (5D)4G	95858.050	1.5	4SP(5P)4F
969.1029	-4.244	85679.698	2.5	4D (5D)4G	95995.690	2.5	4SP(5F)4D	982.2171	-2.069	99093.452	5.5	5S (3H)2H	109271.710	5.5	4SP(3I)2I
969.2102	-3.014	102334.112	2.5	6S (5D)6D	92018.729	2.5	4SP(5D)6F	982.3443	-4.024	104366.820	6.5	5D (5D)6G	94189.880	5.5	4SP(5G)4G
969.6149	-3.062	84424.370	1.5	4D (5D)6P	94739.170	1.5	4SP(5F)4P	982.5180	-1.846	83812.316	2.5	4D (5D)6D	93987.457	3.5	4SP(5D)6D
969.6817	-0.449	80177.975	1.5	5S (5D)4D	90487.810	2.5	5P (5D)6F	982.7663	-4.519	104873.230	3.5	5D (5D)4D	94700.660	2.5	4P (3F)2D
970.4002	-2.285	80346.016	0.5	5P (5D)6F	90648.217	0.5	5P (5D)6F	983.0310	-2.138	104000.810	3.5	5D (5D)6P	93830.979	2.5	4SP(5D)6D
970.6012	-1.254	98568.912	3.5	5S (3H)4H	108868.980	4.5	4SP(3G)4H	983.0919	-2.898	104380.940	3.5	5D (5D)6F	94211.739	2.5	4SP(5P)4P
970.6484	-3.038	108804.667	3.5	5S (3D)4D	98505.100	2.5	4SP(5D)4D	983.1754	-4.374	84870.863	2.5	4D (5D)6D	95039.200	1.5	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
984.1175	-2.266	102584.963	5.5	5S (3G)4G	92426.980	4.5	4SP(5G)4F	999.3040	-3.407	102334.112	2.5	6S (3D)6D
984.3191	-2.887	49506.934	1.5	D6S (3P)4F	59663.456	1.5	4P (3P)4S	999.4136	-2.720	54283.220	3.5	D5S2(7S)4G
984.4858	-3.875	102802.312	2.5	6S (5D)4D	92647.510	1.5	4P (3F)4D	999.5612	-4.237	98568.912	3.5	5S (3H)4H
984.8329	-4.505	82978.677	4.5	4D (5D)6F	93129.900	3.5	4D (5F)4D	999.7367	-3.411	84685.198	3.5	4D (5D)4D
984.9738	-2.522	54275.637	2.5	D5S2(7S)4G	64425.408	2.5	4P (3F)2F	999.7576	-2.181	54232.195	5.5	D5S2(7S)4G
985.0244	-4.352	88189.030	0.5	4D (5D)4F	98338.280	1.5	4SP(5P)4S	1000.1920	-3.720	103983.510	3.5	5S (3G)2G
985.6246	-2.873	104828.160	2.5	5D (5D)6D	94685.090	2.5	4SP(5D)6F	1000.3849	-4.839	83134.477	3.5	4D (5D)6F
985.7103	-3.168	54283.220	3.5	D5S2(7S)4G	64425.408	2.5	4P (3F)2F	1001.2889	-4.299	104174.280	5.5	4D (3H)4I
986.9699	-4.542	85728.806	1.5	4D (5D)4S	93987.457	3.5	4SP(5D)6D	1002.1811	-4.902	102334.112	2.5	6S (3D)6D
987.3358	-3.608	104315.370	6.5	4D (3H)2K	95858.050	1.5	4SP(5P)4D	1002.2913	-2.947	84710.685	3.5	4D (5D)6G
987.3680	-0.739	98445.360	4.5	5S (3H)4H	108570.560	4.5	4SP(5G)4G	1002.9617	-1.690	102394.718	3.5	6S (5D)4D
987.4490	-4.031	103608.909	4.5	5S (3G)2G	93484.580	4.5	4P (3F)4F	1003.4253	-1.549	103950.590	4.5	5D (5D)6F
987.7485	-4.301	103608.909	4.5	5S (3G)2G	93487.650	3.5	4P (3F)4F	1004.1487	-1.885	99824.045	2.5	5S (3F)4F
987.8131	-2.786	102394.718	3.5	6S (5D)4D	92274.120	2.5	4P (3F)4D	1004.5066	-4.654	57378.484	0.5	D5S2(7S)4F
988.1211	-1.486	83713.536	3.5	4D (5D)6D	93830.979	2.5	4SP(5D)6D	1005.2205	-4.105	104630.430	1.5	5D (5D)6P
988.6278	-2.647	102394.718	3.5	6S (5D)4D	92282.460	3.5	4SP(5G)4F	1005.2363	-4.662	84266.556	3.5	4D (5D)6P
988.8475	-2.424	104873.230	3.5	6S (5D)4D	94763.219	3.5	4SP(5D)6P	1005.4533	-1.784	104000.810	3.5	5D (5D)6P
988.9881	-3.138	102334.112	2.5	6S (5D)6D	92225.538	1.5	5P (5D)4F	1005.5015	-4.454	84938.180	1.5	4D (5D)6G
989.1481	-3.491	102802.312	2.5	6S (5D)4D	92695.374	2.5	4P (3P)2D	1005.5379	-2.804	104705.420	3.5	5D (5D)6D
989.3103	-2.757	104868.500	4.5	5D (5D)6G	94763.219	3.5	4SP(5D)6P	1005.5934	-4.844	102030.912	3.5	6S (5D)6D
989.4806	-3.687	57493.321	1.5	D5S2(7S)4F	47389.779	1.5	4P (5D)4P	1005.8002	-0.360	99332.102	4.5	5S (3H)2H
990.1508	-4.600	99824.045	2.5	5S (3F)4F	89727.342	2.5	4P (3F)4G	1006.0425	-1.978	93328.480	1.5	4P (3F)4F
990.3727	-4.223	102394.718	3.5	6S (5D)4D	92300.277	4.5	4SP(5D)6F	1006.1968	-4.634	83459.670	1.5	4D (5D)6F
990.5024	-3.486	86124.301	4.5	4D (5D)4F	96217.420	3.5	4SP(5P)4D	1006.4012	-3.232	94824.045	2.5	5S (3F)4F
990.7902	-4.544	102543.648	1.5	6S (5D)6D	92453.460	0.5	4P (3F)4D	1006.6901	-4.617	73395.930	2.5	D5S2(7S)4F
990.9078	-2.089	104828.160	2.5	5D (5D)6D	94739.170	1.5	4SP(5D)6P	1006.9336	-1.739	98445.400	4.5	5S (3H)4H
990.9491	-4.651	105127.770	2.5	5D (5D)4D	95039.200	1.5	4P (3P)2P	1007.0045	-4.159	54904.222	3.5	D6S (3F)2F
991.9533	-4.310	84685.198	3.5	4D (5D)4D	74606.841	2.5	4P (3D)2D	1007.0198	-4.932	104000.810	3.5	5D (5D)6P
991.9863	-3.067	84685.198	3.5	4D (5D)4D	93395.360	2.5	4P (3F)4F	1007.0198	-4.932	104000.810	3.5	5D (5D)6P
992.2755	-3.898	104828.160	2.5	5D (5D)6D	94763.219	3.5	4SP(5D)6P	1008.8743	-4.212	104120.270	2.5	D5S2(7S)4F
993.2866	-4.699	102394.718	3.5	6S (5D)4D	93239.890	2.5	4SP(5G)4F	1008.9548	-3.158	104120.270	2.5	D5S2(7S)4F
993.5482	-1.212	98568.912	3.5	5S (3H)4H	108631.090	3.5	4SP(3G)4G	1009.4551	-2.416	104588.710	1.5	5D (5D)6D
993.7641	-4.607	102334.112	2.5	6S (5D)6D	92274.120	2.5	4P (3P)4P	1009.5069	-4.710	102802.312	2.5	4P (3F)4D
994.1361	-0.047	99093.452	5.5	5S (3H)2H	109149.680	6.5	4SP(3I)2I	1009.8431	-2.199	84131.563	0.5	4D (5D)6D
994.5014	-3.852	84710.685	3.5	4D (5D)6G	94763.219	3.5	4SP(5D)6P	1010.2183	-4.500	92647.510	1.5	4P (3F)4D
994.5887	-3.164	102334.112	2.5	6S (5D)6D	92282.460	3.5	4SP(5G)4F	1010.5574	-1.240	103950.590	4.5	5D (5D)6F
994.6821	-4.795	54283.220	3.5	D5S2(7S)4G	44232.512	4.5	4P (5D)4F	1010.6045	-4.513	84870.863	2.5	4D (5D)4D
995.3201	-4.826	60270.339	3.5	D5S2(7S)4D	70314.604	4.5	4P (3G)2G	1010.7165	-3.406	104630.430	1.5	5D (5D)6P
995.6125	-1.932	83990.063	1.5	4D (5D)6D	94031.378	0.5	4SP(5D)6D	1011.0446	-4.982	104588.710	1.5	5D (5D)6D
995.6310	-3.307	54273.641	4.5	D5S2(7S)4G	44232.512	4.5	4P (5D)4F	1011.3743	-3.552	84326.912	2.5	4D (5D)6D
995.8947	-4.316	98445.400	4.5	5S (3H)4H	108483.870	5.5	4SP(3G)4G	1011.9885	-0.905	103936.600	5.5	5D (5D)6F
996.9321	-1.803	83812.316	2.5	4D (5D)6D	93840.340	1.5	4SP(5D)6D	1012.2403	-3.895	102030.912	3.5	6S (5D)6D
997.1572	-4.871	104174.270	5.5	4D (3H)4I	94148.510	4.5	4SP(5G)4G	1012.2403	-3.895	102030.912	3.5	6S (5D)6D
997.6024	-4.115	57411.065	2.5	D5S2(7S)4F	47389.779	1.5	4P (5D)4P	1012.4023	-4.697	104064.670	6.5	4D (3H)4I
997.6976	-1.973	104705.420	3.5	5D (5D)6D	94685.090	2.5	4SP(5D)6P	1013.1764	-3.835	57493.321	1.5	D5S2(7S)4F
997.8117	-4.381	102666.694	0.5	6S (5D)6D	92647.510	1.5	4P (3F)4D	1013.7737	-4.167	99918.569	1.5	5S (3F)4F
997.8636	-2.468	83812.316	2.5	4D (5D)6D	93830.979	2.5	4SP(5D)6D	1014.0035	-3.715	102030.912	3.5	6S (3D)6D
997.9356	-2.660	104757.110	0.5	5D (5D)6D	94739.170	1.5	4SP(5P)4P	1014.5712	-4.532	105711.730	2.5	5D (5D)6S
998.1825	-3.792	84685.198	3.5	4D (5D)4D	94700.660	2.5	4P (3F)2D	1014.6208	-4.462	100492.020	3.5	5S (3F)2F
998.3928	-1.494	104000.810	3.5	5D (5D)6P	93987.457	3.5	4SP(5D)6D	1014.7133	-4.463	104000.810	3.5	5D (5D)6P
998.4575	-3.195	54273.641	4.5	D5S2(7S)4G	64286.345	3.5	4P (3F)2F	1014.7711	-4.443	84296.830	5.5	4D (5D)6G
998.5094	-3.405	102030.912	3.5	6S (5D)6D	92018.729	2.5	4SP(5D)6F	1014.9217	-2.384	83990.063	1.5	4D (5D)6D
998.6566	-3.985	54275.637	2.5	D5S2(7S)4G	64286.345	3.5	4P (3F)2F	1014.9976	-2.788	104588.710	1.5	5D (5D)6D
999.2272	-3.756	79439.467	3.5	5S (5D)4D	89444.458	2.5	4SP(5P)6P	1015.8871	-2.170	83990.063	1.5	4D (5D)6D
999.2503	-3.874	104705.420	3.5	5D (5D)6D	94700.660	2.5	4P (3F)2D	1015.9553	-3.764	84844.834	2.5	4D (5D)6C
								1016.3595	-4.306	54283.220	3.5	D5S2(7S)4G
										44446.878	3.5	4P (5D)4D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1016.7941	-2.999	85048.602	1.5	4D (5D)4D	94880.740	0.5	4SP(5P)4P	1032.7449	-4.629	104380.940	3.5	5D (5D)6F	94700.660	2.5	4P (3F)2D
1017.0362	-4.100	84870.863	2.5	4D (5D)4D	94700.660	2.5	4P (3F)2D	1032.7759	-2.335	79439.467	3.5	5S (5D)4D	89119.457	2.5	5P (5D)6D
1017.3503	-3.454	54273.641	4.5	D5S2(7S)4G	44446.878	3.5	4P (5D)4D	1033.1989	-1.178	77861.625	4.5	5S (5D)6D	87537.625	3.5	4SP(5G)6F
1017.8752	-1.519	78237.685	3.5	5S (5D)6D	88059.380	2.5	4SP(5P)6D	1033.2729	-4.975	8312.316	2.5	4D (5D)6D	93487.650	3.5	4P (3F)4F
1018.6497	-2.759	84870.863	2.5	4D (5D)4D	94685.090	2.5	4SP(5D)6P	1033.2926	-2.156	54273.641	4.5	D5S2(7S)4G	63948.790	4.5	4P (3F)4G
1018.9037	-2.499	54275.418	2.5	D5S2(7S)4G	64087.418	2.5	4P (3F)4G	1033.5850	-2.005	102802.312	2.5	6S (5D)4D	93129.900	3.5	4P (3F)4D
1019.6200	-0.801	98568.912	3.5	5S (3H)4H	108373.800	3.5	260DD	1033.8109	-2.165	98294.401	5.5	5S (3H)4H	107964.700	4.5	210DD
1019.6918	-3.452	54283.220	3.5	D5S2(7S)4G	64087.418	2.5	4P (3F)4G	1033.8121	-3.947	98568.912	3.5	5S (3H)4H	108239.200	3.5	240DD
1019.9121	-4.045	103950.590	4.5	5D (5D)6F	94148.510	4.5	4SP(5G)4G	1034.3167	-3.584	54283.220	3.5	D5S2(7S)4G	63948.790	4.5	4P (3F)4G
1020.0154	-4.593	86416.333	3.5	4D (5D)4F	96217.420	3.5	4SP(5P)4D	1034.5660	-2.732	104426.460	2.5	5D (5D)6F	94763.219	3.5	4SP(5D)6P
1020.0255	-4.341	84938.180	1.5	4D (5D)6G	94739.170	1.5	4SP(5P)4P	1034.8547	-4.708	84326.912	2.5	4D (5D)6F	93987.457	3.5	4SP(5D)6D
1020.3405	-4.737	99688.337	3.5	5S (3F)4F	89890.373	3.5	4P (3F)4G	1035.7646	-4.885	85048.602	1.5	4D (5D)4D	94700.660	2.5	4P (3F)2D
1020.7744	-4.419	98445.400	4.5	5S (3H)4H	108239.200	3.5	240DD	1036.0875	-3.821	99573.225	4.5	5S (3F)4F	89924.175	5.5	5P (5D)6F
1020.7962	-4.486	104873.230	3.5	5D (5D)4D	95079.640	3.5	4P (3F)2F	1036.1197	-1.862	104411.690	4.5	5D (5D)6D	94763.219	3.5	4SP(5D)6P
1020.9604	-3.004	102394.718	3.5	6S (5D)4D	92602.703	3.5	4P (3F)2G	1036.4626	-3.188	99688.337	3.5	5S (3F)4F	90042.779	4.5	4P (3F)4G
1021.0436	-2.341	84266.556	3.5	4D (5D)6P	94057.773	4.5	4SP(5D)6D	1036.5819	-3.663	102543.648	1.5	6S (5D)6D	92899.200	2.5	4P (3F)4D
1021.1789	-2.395	103118.400	1.5	6S (5D)4D	93328.480	1.5	4P (3F)4F	1036.6170	-2.003	54232.195	5.5	D5S2(7S)4G	83876.317	5.5	4P (3F)4G
1021.2675	-3.436	104000.810	3.5	5D (5D)6P	94211.739	2.5	4SP(5P)4F	1037.1960	-4.289	102334.112	2.5	6S (5D)6D	92695.374	2.5	4P (3F)2D
1021.2791	-4.176	104828.160	2.5	5D (5D)6D	95039.200	1.5	4P (3P)2P	1037.4382	-3.426	85048.602	1.5	4D (5D)4D	94685.090	2.5	4SP(5D)6P
1021.3698	-4.063	103936.600	5.5	5D (5D)6F	94148.510	4.5	4SP(5G)4G	1037.5919	-4.143	105630.750	2.5	5D (5D)4G	95995.690	2.5	4SP(5P)4D
1022.6824	-2.329	99093.452	5.5	5S (3H)2H	108868.980	4.5	4SP(3G)4H	1037.5922	-4.855	104705.420	3.5	5D (5D)6D	95079.640	3.5	4P (3F)2F
1022.9783	-4.018	105630.750	2.5	5D (5D)4G	95858.050	1.5	4SP(5P)4D	1038.5922	-4.855	104705.420	3.5	5D (5D)6D	95079.640	3.5	4P (3F)2F
1023.2546	-4.339	81734.750	3.5	D5S2(7S)2F	71964.710	2.5	4P (3D)4F	1039.1093	-4.832	99688.337	3.5	5S (3F)4F	90067.347	4.5	5P (5D)6F
1023.5496	-3.222	54273.641	4.5	D5S2(7S)4G	64040.886	3.5	4P (3F)4G	1039.4625	-3.377	104380.940	3.5	5D (5D)6F	94763.219	3.5	4SP(5D)6P
1023.7588	-3.771	54275.637	2.5	D5S2(7S)4G	64040.886	3.5	4P (3F)4G	1040.2825	-0.532	77861.625	4.5	5S (5D)6D	87471.765	4.5	4SP(5G)6F
1024.1745	-4.025	83726.364	4.5	4D (5D)6D	93487.650	3.5	4P (3F)4F	1040.3811	-4.932	101698.489	4.5	6S (5D)6D	92089.260	3.5	4SP(5D)4H
1024.2105	-2.319	84296.830	5.5	4D (5D)6G	94057.773	4.5	4SP(5D)6D	1040.6216	-1.901	84244.370	1.5	4D (5D)6P	94031.378	0.5	4SP(5D)6D
1024.5544	-2.333	54283.220	3.5	D5S2(7S)4G	64040.886	3.5	4P (3F)4G	1040.9549	-2.457	102030.912	3.5	6S (5D)6D	92426.980	4.5	4SP(5G)4F
1024.6462	-3.480	102030.912	3.5	6S (5D)6D	92274.120	2.5	4P (3P)4P	1041.0391	-3.208	103751.660	5.5	4D (3H)4H	94148.510	4.5	4SP(5G)4G
1025.3926	-2.491	104630.430	1.5	5D (5D)6P	94880.740	0.5	4SP(5P)4F	1041.0911	-3.674	54273.641	4.5	D5S2(7S)4G	63876.317	5.5	4P (3F)4G
1025.5228	-3.761	102030.912	3.5	6S (5D)6D	92282.460	3.5	4SP(5G)4F	1042.3579	-4.761	83308.194	2.5	4D (5D)6F	92899.200	2.5	4P (3F)4D
1025.7051	-4.563	103936.600	5.5	5D (5D)6F	94189.880	5.5	4SP(5G)4G	1043.2239	-4.870	83812.316	2.5	4D (5D)6D	93395.360	2.5	4P (3F)4F
1026.2684	-2.605	104426.460	2.5	5D (5D)6F	94685.090	2.5	4SP(5D)6P	1043.6254	-4.041	86416.333	3.5	4D (5D)4F	95995.690	2.5	4SP(5P)4D
1026.3189	-3.481	102334.112	2.5	6S (5D)6D	92602.703	3.5	4P (3F)2G	1044.1507	-2.234	99332.102	4.5	5S (3H)2H	108906.640	3.5	4SP(3G)4H
1027.4006	-2.913	102030.912	3.5	6S (5D)6D	92300.277	4.5	4SP(5D)6F	1044.2833	-3.327	82853.658	5.5	4D (5D)6F	92426.980	4.5	4SP(5G)4F
1028.2031	-1.951	103118.400	1.5	6S (5D)6D	93395.360	2.5	4P (3F)4F	1044.5439	-2.146	103751.660	5.5	4D (3H)4H	94189.880	5.5	4SP(5G)4G
1028.4294	-1.798	84266.556	3.5	4D (5D)6P	93948.790	4.5	4P (3F)4D	1045.2550	-1.632	84266.556	3.5	4D (5D)6P	93830.979	2.5	4SP(5D)6D
1028.7459	-4.920	104757.110	0.5	5D (5D)6D	95039.200	1.5	4P (3P)2P	1045.5439	-2.146	103751.660	5.5	4D (3H)4H	94189.880	5.5	4SP(5G)4G
1028.8851	-3.089	54232.195	5.5	D5S2(7S)4G	63948.790	4.5	4P (3F)4D	1045.5439	-2.146	103751.660	5.5	4D (3H)4H	94189.880	5.5	4SP(5G)4G
1028.9439	-4.807	105711.730	2.5	5D (5D)6S	95995.690	2.5	4SP(5P)4D	1045.5539	-3.425	98568.912	3.5	5S (3H)4H	108130.600	2.5	220DD
1028.9632	-2.177	99093.452	5.5	5S (3H)2H	108809.310	5.5	4SP(3G)4H	1045.8518	-4.479	79885.493	2.5	5S (5D)4D	89444.458	2.5	4SP(5P)6P
1029.0998	-3.867	77230.900	4.5	D5S2(7S)2H	67516.332	5.5	4P (3G)2H	1046.1621	-4.166	105414.180	2.5	4D (3F)4G	95858.050	1.5	4SP(5P)4D
1029.3487	-3.224	102842.119	4.5	4D (5D)6D	93129.900	3.5	4P (3F)4D	1046.2981	-2.621	54870.528	2.5	D6S (3F)2F	64425.408	2.5	4P (3F)2F
1029.7136	-2.491	84131.563	0.5	4D (5D)6D	93840.340	1.5	4SP(5D)6D	1046.8429	-3.940	73637.340	1.5	D5S2(7S)4F	64087.418	2.5	4P (3F)4G
1029.7992	-2.666	104588.710	1.5	5D (5D)6D	94880.740	0.5	4SP(5P)4F	1047.3313	-4.676	84527.778	4.5	4D (5D)6G	94073.240	3.5	4SP(5G)4G
1029.8034	-2.788	85172.809	0.5	4D (5D)4D	94880.740	0.5	4SP(5P)4F	1047.4561	-3.834	101698.489	4.5	6S (5D)6D	92154.165	3.5	4SP(5D)6F
1030.5168	-3.103	105763.270	5.5	4D (3F)2H	96062.060	5.5	4SP(3G)2H	1047.5548	-3.836	73637.340	1.5	D5S2(7S)4F	63948.790	4.5	4P (3F)4G
1030.5368	-4.740	102030.912	3.5	6S (5D)6D	92329.890	2.5	4SP(5G)4F	1047.8295	-4.297	100749.810	2.5	5S (3F)2F	91208.887	1.5	5P (5D)4F
1030.7783	-4.031	77230.900	4.5	D5S2(7S)2H	86929.649	3.5	4P (3P)4D	1048.2739	-2.412	99332.102	4.5	5S (3H)2H	108868.980	4.5	4SP(3G)4H
1030.8064	-0.751	99573.225	4.5	5S (3F)4F	109271.710	5.5	4SP(3I)2I	1048.4068	-4.165	103608.909	4.5	5S (3G)2G	94073.240	3.5	4SP(5G)4G
1031.0665	-1.954	104380.940	3.5	5D (5D)6F	94685.090	2.5	4SP(5D)6P	1048.5934	-1.403	78525.407	2.5	5S (5D)6D	88059.380	2.5	4SP(5P)6D
1031.6485	-2.665	85048.602	1.5	4D (5D)4D	94739.170	1.5	4SP(5P)4P	1049.0311	-3.450	84527.778	4.5	4D (5D)6G	94057.773	4.5	4SP(5D)6D
1031.8055	-3.615	79439.467	3.5	5D (5D)4D	89128.560	3.5	4SP(5P)6P	1049.0942	-3.244	54283.220	3.5	D5S2(7S)4G	44753.799	3.5	4P (3F)2G
1031.9976	-2.399	104426.460	2.5	5D (5D)6F	94739.170	1.5	4SP(5P)4P	1049.3858	-4.633	101698.489	4.5	6S (5D)6D	92171.716	4.5	4P (5D)4F
1032.0709	-4.816	102334.112	2.5	6S (5D)6D	92647.510	1.5	4P (3F)4D	1049.4114	-2.286	84685.198	3.5	4D (5D)4D	94211.739	2.5	4SP(5P)4P
1032.3436	-0.755	78525.407	2.5	5S (5D)6D	88209.373	3.5	4SP(5P)6P	1049.4540	-4.981	99824.045	2.5	5S (3F)4F	90300.625	3.5	5P (5D)6F
1032.4706	-4.905	95973.225	4.5	5S (3F)4F	89890.373	3.5	4P (3F)4G	1049.9297	-4.756	54275.637	2.5	D5S2(7S)4G	44753.799	3.5	4P (5D)4F
1032.5803	-3.962	83713.536	3.5	4D (5D)6D	93395.360	2.5	4P (3F)4F	1050.0016	-4.132	54904.222	3.5	D6S (3F)2F	64425.408	2.5	4P (3F)2F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
1050.1499	-2.342	54273.641	4.5	D5S2(7S)4G	44753.799	3.5	4P (5D)4F	1070.2702	-2.872	84870.863	2.5	4D (5D)4D
1050.2097	-2.726	98445.400	4.5	5S (3H)4H	107964.700	4.5	210DD	1070.2970	-4.305	87985.628	2.5	4D (5D)4P
1050.4162	-3.464	73393.745	4.5	D5S2(7S)4F	63876.317	5.5	4P (3F)4G	1070.7384	-4.499	105398.852	5.5	4D (3F)4H
1050.5557	-4.887	83812.316	2.5	4D (5D)6D	93328.440	1.5	4P (3F)4F	1070.8022	-4.660	99824.045	2.5	5S (3F)4F
1050.8929	-2.213	84326.912	2.5	4D (5D)6P	93840.380	1.5	4SP(5D)6D	1070.9730	-1.124	78237.685	3.5	5S (5D)6D
1051.6925	-4.127	99573.225	4.5	5S (3F)4F	90067.347	4.5	5P (5D)6F	1070.9978	-4.720	58666.258	3.5	D6S (1G)2G
1051.8929	-2.613	84326.912	2.5	4D (5D)6P	93830.979	2.5	4SP(5D)6D	1071.1057	-1.030	78255.790	1.5	5S (5D)6D
1052.5140	-3.684	54283.220	3.5	D5S2(7S)4G	44784.761	2.5	4P (5D)4D	1071.1258	-2.401	89757.225	4.5	5S (3F)4F
1052.7602	-4.892	81734.750	3.5	D5S2(7S)2F	72238.513	2.5	4P (3D)4F	1072.4834	-3.812	82978.677	4.5	4D (5D)6F
1052.8400	-4.789	102394.718	3.5	6S (5D)4D	92899.200	2.5	4D (3F)4D	1072.8911	-4.352	82853.658	5.5	4D (5D)6F
1052.9739	-4.624	105711.730	2.5	6D (5D)6G	96217.420	3.5	4SP(5P)4D	1072.9337	-3.150	98568.912	3.5	5S (3H)4H
1053.3549	-4.542	54275.637	2.5	D5S2(7S)4G	44784.761	2.5	4P (5D)4D	1072.9457	-4.709	83812.316	2.5	4D (5D)6D
1054.6348	-0.074	77861.625	4.5	5S (5D)6D	87340.983	5.5	4SP(5G)6F	1073.1603	-2.453	104000.810	3.5	5D (5D)6P
1054.8741	-2.068	99332.102	4.5	5S (3H)2H	108809.310	5.5	4SP(3G)4H	1073.2822	-2.130	102802.312	2.5	6S (5D)4D
1054.8852	-1.680	99093.452	5.5	5S (3H)2H	108570.560	4.5	4SP(3G)4G	1073.4805	-4.867	82853.658	5.5	4D (5D)6F
1055.2500	-3.428	102802.312	2.5	6S (5D)4D	93328.480	1.5	4P (3F)4F	1073.7743	-4.575	85728.806	1.5	4D (5D)4S
1056.4230	-4.830	84685.198	3.5	4D (5D)4D	94148.510	4.5	4SP(5G)4G	1074.7653	-4.704	105589.420	3.5	4D (3F)4H
1056.8288	-2.339	84527.778	4.5	4D (5D)6G	93987.457	3.5	4SP(5D)6D	1073.9913	-4.132	73395.930	2.5	D5S2(7S)4F
1057.4804	-3.621	105449.540	3.5	5D (5D)4G	95995.690	2.5	4SP(5P)4D	1074.7133	-2.543	84685.198	3.5	4D (5D)4D
1057.5241	-3.628	82978.677	4.5	4D (5D)6F	92432.136	5.5	4SP(5D)6F	1074.9782	-0.630	99688.337	3.5	5S (3F)4F
1057.8407	-3.671	50212.826	2.5	D6S (3P)4P	95663.456	1.5	4P (3P)4S	1074.9782	-0.630	99688.337	3.5	5S (3F)4F
1058.1012	-3.789	82978.677	4.5	4D (5D)6F	92426.980	4.5	4SP(5G)4F	1075.0913	-1.718	99332.102	4.5	5S (3H)2H
1058.2898	-3.399	82853.658	5.5	4D (5D)6F	92300.277	4.5	4SP(5D)6F	1075.1119	-5.000	78725.790	1.5	5S (5D)6D
1058.3926	-2.509	79885.493	2.5	5S (5D)4D	89331.195	1.5	5P (5D)6D	1075.4652	-1.732	99573.225	4.5	5S (3F)4F
1058.4763	-4.884	73393.745	4.5	D5S2(7S)4F	63948.790	4.5	4P (3F)4G	1075.5156	-3.968	105291.010	3.5	4D (3F)4G
1058.8973	-2.536	98445.400	4.5	5S (3H)4H	107886.600	3.5	200DD	1075.5156	-3.968	105291.010	3.5	4D (3F)4G
1059.1168	-3.137	78525.407	2.5	5S (5D)6D	87964.650	1.5	4SP(5P)6D	1076.0744	-4.524	83136.487	3.5	4D (5D)4D
1059.5729	-2.109	104120.270	2.5	5D (5D)6P	94685.090	2.5	4SP(5D)6P	1076.0772	-4.096	99688.337	3.5	5S (3F)4F
1059.6030	-4.081	102334.112	2.5	6S (5D)6D	92899.200	2.5	4P (3F)4D	1076.4303	-3.129	103118.400	1.5	6S (5D)4D
1060.3563	-4.176	102300.912	3.5	6S (5D)6D	92602.703	3.5	4P (3F)2G	1076.6451	-4.829	81639.260	2.5	D5S2(7S)2F
1060.6775	-3.489	103265.694	0.5	6S (5D)4D	93840.340	1.5	4SP(5D)6D	1076.6925	-4.194	84863.351	5.5	4D (5D)4G
1061.3243	-4.675	104120.270	2.5	5D (5D)6P	94700.660	2.5	4P (3F)2D	1076.8347	-1.963	79439.467	3.5	5S (5D)4D
1061.3898	-4.349	103608.909	4.5	5S (3G)2G	94189.880	5.5	4SP(5G)4G	1077.2999	-4.374	80346.016	0.5	5S (5D)4F
1061.4505	-4.084	105414.180	2.5	4D (3F)4G	95995.690	2.5	4SP(5P)4D	1077.5164	-2.992	103118.400	1.5	6S (5D)4D
1061.6902	-4.893	83713.536	3.5	4D (5D)6D	93129.900	3.5	4P (3F)4D	1077.5164	-2.992	103118.400	1.5	6S (5D)4D
1061.7346	-3.560	84424.370	1.5	4D (5D)6P	93840.340	1.5	4SP(5D)6D	1078.1508	-3.869	99573.225	4.5	5S (3F)4F
1061.9493	-2.406	79439.467	3.5	5S (5D)4D	88853.533	3.5	5P (5D)6D	1078.2777	-3.507	101698.489	4.5	6S (5D)6D
1062.3450	-2.494	103600.440	6.5	4D (3H)4H	94189.880	5.5	4SP(5G)4G	1078.6959	-3.283	85495.304	2.5	4D (5D)6S
1062.6423	-4.239	99332.102	4.5	5S (3H)2H	89924.175	5.5	5P (5D)6F	1078.8625	-3.226	80177.975	1.5	5S (5D)4D
1062.7524	-2.396	102802.312	2.5	6S (5D)4D	93395.360	2.5	4P (3F)4F	1078.8625	-3.226	80177.975	1.5	5S (5D)4D
1062.7912	-3.290	84424.370	1.5	4D (5D)6P	93830.979	2.5	4SP(5D)6D	1079.0638	-4.455	99332.102	4.5	5S (3H)2H
1062.9394	-4.916	83990.063	1.5	4D (5D)6D	93395.360	2.5	4P (3F)4F	1080.5689	-3.146	77230.900	4.5	D5S2(7S)2H
1063.1385	-4.639	83726.364	4.5	4D (5D)6D	93129.900	3.5	4P (3F)4D	1081.5022	-4.310	85495.304	2.5	4D (5D)6S
1063.9966	-4.501	86599.738	2.5	4D (5D)4F	95995.690	2.5	4SP(5P)4D	1081.5956	-2.540	79885.493	2.5	5S (5D)4D
1064.0152	-4.528	98568.912	3.5	5S (3H)4H	107964.700	4.5	210DD	1082.0882	-1.242	78725.790	1.5	5S (5D)6D
1064.6237	-2.616	99093.452	5.5	5S (3H)2H	108483.870	5.5	4SP(3G)4G	1082.1353	-1.592	99332.102	4.5	5S (3H)2H
1064.9305	-4.264	104426.460	2.5	5D (5D)6F	90300.625	3.5	5P (5D)6F	1082.2126	-4.933	85462.862	3.5	4D (5D)4G
1064.9818	-4.672	104426.460	2.5	5D (5D)6F	90300.625	3.5	5P (5D)6F	1082.2126	-4.933	85462.862	3.5	4D (5D)4G
1065.5649	-2.459	54904.222	3.5	D6S (3F)2F	64286.345	3.5	4P (3F)2F	1082.4133	-1.510	99573.225	4.5	5S (3F)4F
1065.6811	-3.037	104120.270	2.5	5D (5D)6P	94739.170	1.5	4SP(5P)4P	1082.4133	-1.510	99573.225	4.5	5S (3F)4F
1066.6504	-3.252	84685.198	3.5	4D (5D)4D	94057.773	4.5	4SP(5D)6D	1082.6207	-3.190	103265.694	0.5	6S (5D)4D
1067.9095	-3.364	99573.225	4.5	5S (3F)4F	90211.700	5.5	4P (3F)4G	1082.6484	-0.417	78237.685	3.5	5S (5D)6D
1068.3644	-3.486	102842.119	4.5	5S (3G)4G	93484.580	4.5	4P (3F)4F	1082.8383	-4.616	105589.420	3.5	4D (3F)4H
1068.4201	-2.447	104120.270	2.5	5D (5D)6P	94763.219	3.5	4SP(5D)6P	1082.8782	-4.066	96217.420	3.5	5D (5D)4G
1068.6493	-3.878	73395.930	2.5	D5S2(7S)4F	64040.886	3.5	4P (3F)4G	1082.9546	-4.112	54275.637	2.5	D5S2(7S)4G
1068.7150	-3.305	102842.119	4.5	5S (3G)4G	93487.650	3.5	4P (3F)4F	1083.1138	-3.565	77230.900	4.5	D5S2(7S)2H
1069.4843	-4.828	105205.790	2.5	5D (5D)6G	95858.050	1.5	4SP(5P)4D	1083.5041	-3.668	105288.847	6.5	4D (3F)4H
1069.5589	-4.795	84710.685	3.5	4D (5D)6G	94057.773	4.5	4SP(5D)6D	1083.9117	-4.848	78525.407	2.5	5S (5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1084.1730	-3.963	84266.556	3.5	4D (5D)6P	93487.650	3.5	4P (3F)4F	1100.1692	-3.959	103118.400	1.5	6S (5D)4D	94031.378	0.5	4SP(5D)6D
1084.5013	-1.857	99688.337	3.5	5S (3F)4F	108906.640	3.5	4SP(3G)4H	1100.1859	-4.632	83812.316	2.5	4D (5D)6D	92899.200	2.5	4P (3F)4D
1084.5341	-3.195	84266.556	3.5	4D (5D)6P	93484.580	4.5	4P (3F)4F	1100.5241	-4.625	81734.750	3.5	D5S2(7S)2F	72650.658	4.5	4P (3D)4F
1084.6676	-2.818	84687.528	2.5	D6S (3F)2F	64087.418	2.5	4P (3F)4G	1100.6717	-4.956	81734.750	3.5	D5S2(7S)2F	72651.876	3.5	4P (3D)4D
1084.8703	-4.040	102543.648	1.5	6S (5D)6D	93328.480	1.5	4P (3F)4F	1100.7055	-1.708	99824.045	2.5	5S (3F)4F	108906.640	3.5	4SP(3G)4H
1085.2513	-4.148	73637.340	1.5	D5S2(7S)4F	64425.408	2.5	4P (3F)2F	1101.1305	-4.640	99918.569	1.5	5S (3F)4F	90839.480	0.5	4P (3F)4P
1085.9660	-4.283	73492.215	3.5	D5S2(7S)4F	64286.345	3.5	4P (3F)2F	1101.4030	-1.232	78525.407	2.5	5S (3D)6D	87602.250	1.5	4SP(5G)6F
1086.1616	-3.628	102334.112	2.5	6S (5D)6D	93129.900	3.5	4P (3F)4D	1101.7979	-3.506	105291.010	3.5	4D (5D)6D	96217.420	1.5	4SP(5G)6F
1086.2644	-2.464	54283.220	3.5	D5S2(7S)4G	45079.879	2.5	4P (5D)4F	1102.2413	-4.455	105065.630	3.5	5D (5D)6G	95995.690	2.5	4SP(5P)4D
1087.0417	-4.273	105414.180	2.5	4D (3F)4G	96217.420	3.5	4SP(3F)4D	1102.4226	-4.814	84328.912	2.5	4D (5D)6P	93395.360	2.5	4P (3F)4F
1087.3181	-3.130	84863.351	5.5	4D (5D)4G	94057.773	4.5	4SP(3D)6D	1104.1662	-1.248	78843.992	0.5	5S (5D)6D	87898.120	0.5	4SP(5G)6F
1087.8666	-3.496	85495.304	2.5	4D (5D)6S	94685.090	2.5	4SP(3D)6P	1104.4490	-4.042	105291.010	3.5	4D (3F)4G	96239.200	4.5	4SP(3G)2H
1088.0971	-4.949	83459.670	1.5	4D (5D)6P	92647.510	1.5	4P (3F)4D	1104.5877	-4.803	90042.779	4.5	4P (3F)4H	90042.779	4.5	4P (3F)4H
1088.1077	-3.391	84296.830	5.5	4D (5D)6G	93484.580	4.5	4P (3F)4F	1104.7290	-3.136	99688.337	3.5	5S (3F)4F	90638.822	2.5	5P (5D)4D
1088.2324	-2.680	99373.225	4.5	5S (3F)4F	94763.219	3.5	4SP(5D)6P	1105.0332	-0.852	78525.407	2.5	5S (5D)6D	90638.822	2.5	5P (5D)4D
1088.3548	-4.639	103950.590	4.5	5D (5D)6F	90286.528	4.5	5P (5D)4F	1105.4731	-4.416	99824.045	2.5	5S (3F)4F	90780.621	3.5	5P (5D)4F
1088.4071	-4.269	99824.045	2.5	5S (3F)4F	92647.510	1.5	4P (3F)4D	1105.5726	-3.322	60384.370	0.5	D5S2(7S)4D	69426.980	0.5	4SP(5S)4P
1088.6473	-4.064	54904.222	3.5	D6S (3F)2F	64087.418	2.5	4P (3F)4G	1105.6841	-1.615	99332.102	4.5	5S (3H)2H	108373.800	3.5	260DD
1089.5619	-3.752	82978.677	4.5	4D (5D)6F	92154.165	3.5	4SP(3D)6F	1107.0932	-2.451	100749.810	2.5	5S (3F)2F	109780.000	1.5	280DD
1089.5774	-2.998	99573.225	4.5	5S (3F)4F	90397.868	3.5	5P (5D)4D	1107.2412	-4.397	57493.321	1.5	D5S2(7S)4P	66522.304	2.5	4P (3G)4F
1089.6135	-2.234	79439.467	3.5	5S (5D)4D	88614.520	4.5	4SP(3P)6D	1107.5943	-4.974	90993.452	5.5	5S (3H)2H	90067.347	4.5	5P (5D)6F
1089.9370	-2.731	78725.790	1.5	5S (5D)6D	87898.120	0.5	4SP(3G)6F	1108.3813	-4.318	99918.569	1.5	5S (3F)4F	90898.873	1.5	4P (3P)4P
1090.3145	-3.768	88157.116	1.5	4D (5D)4F	97326.270	1.5	4SP(3F)2P	1108.6293	-4.641	83136.487	3.5	4D (5D)6F	92154.165	3.5	4SP(5D)6F
1090.5111	-3.748	105524.461	4.5	4D (3F)4H	96356.960	3.5	4SP(3G)2F	1108.6580	-4.805	99918.569	1.5	5S (3F)4F	90901.124	2.5	5P (5D)4P
1090.9527	-3.890	83136.487	3.5	4D (5D)6F	92300.277	4.5	4SP(5D)6F	1109.2976	-0.780	78525.407	2.5	5S (5D)6D	87537.652	3.5	4SP(5G)6F
1091.0305	-3.508	85048.602	1.5	4D (5D)4D	93487.650	3.5	4P (3F)4P	1109.3869	-4.684	105291.010	3.5	4D (3F)4G	96279.490	2.5	4SP(3G)2F
1091.3162	-4.645	84326.912	2.5	4D (3F)6P	92411.739	2.5	4P (3F)4F	1109.5292	-2.578	85728.806	1.5	4D (5D)4S	94739.170	1.5	4SP(5P)4P
1091.4456	-3.874	105398.852	5.5	4D (3F)4H	96239.200	4.5	4SP(3G)2H	1110.1122	-4.419	102334.112	2.5	6S (5D)6D	93328.480	1.5	4P (3F)4F
1092.2126	-2.629	80177.975	1.5	5S (5D)4D	89331.195	1.5	5P (5D)6D	1110.6134	-4.696	84326.912	2.5	4D (5D)6P	93328.480	1.5	4P (3F)4F
1092.3660	-3.014	85728.806	1.5	4D (3D)4S	94880.740	0.5	4SP(3P)4D	1110.6230	-3.512	105063.550	5.5	4D (3F)4G	96062.060	5.5	4SP(3G)2H
1092.3858	-1.556	99332.102	4.5	5S (3H)2H	108483.870	5.5	4SP(3G)4G	1110.8862	-3.586	102394.718	3.5	6S (5D)4D	93395.360	2.5	4P (3F)4D
1092.8014	-4.951	102543.648	1.5	6S (5D)6D	93395.360	2.5	4P (3F)4F	1111.1354	-4.892	54275.637	2.5	D5S2(7S)4G	63272.976	2.5	4P (3F)4D
1092.9298	-4.470	86710.837	1.5	4D (5D)4F	95858.050	1.5	4SP(5P)4D	1111.1359	-1.479	99573.225	4.5	5S (3F)4G	108570.560	4.5	4SP(3G)4G
1093.1009	-2.334	84685.198	3.5	4D (5D)4D	93830.979	2.5	4SP(5D)6D	1111.3619	-3.084	84844.834	4.5	4D (5D)6G	93840.340	1.5	4SP(5P)4D
1093.4785	-4.523	84844.834	2.5	4D (5D)6G	93987.457	3.5	4SP(5D)6D	1111.5826	-3.634	105211.140	4.5	5D (5D)4G	96217.420	3.5	4SP(5P)4D
1094.1917	-2.847	54904.222	3.5	D6S (3F)2F	64040.886	3.5	4P (3F)4G	1112.0727	-4.812	54283.220	3.5	D5S2(7S)4G	63272.976	2.5	4P (3F)4D
1094.3545	-4.649	78237.685	3.5	5S (5D)6D	69102.380	2.5	4SP(5S)4P	1112.1155	-4.576	104757.110	0.5	5D (5D)6D	95767.700	2.5	4SP(5P)4D
1094.4281	-3.795	105414.180	2.5	4D (3F)4G	96279.490	2.5	4SP(3G)2F	1112.3662	-4.880	81639.260	2.5	D5S2(7S)2F	72651.876	3.5	4P (3D)4D
1094.7409	-4.001	105127.770	2.5	5D (5D)4D	95995.690	2.5	4SP(5P)4D	1112.5196	-3.375	84844.834	2.5	4D (5D)6G	93830.979	2.5	4SP(5D)6D
1094.9628	-4.414	103118.400	1.5	6S (5D)4D	93988.170	2.5	4SP(5G)4G	1112.5441	-3.261	60441.033	1.5	D5S2(7S)4D	69426.980	0.5	4SP(5G)6F
1095.1338	-3.984	84266.556	3.5	4D (5D)6P	93395.360	2.5	4P (3F)4F	1112.5578	-2.579	54275.637	2.5	D5S2(7S)4G	45289.801	1.5	4P (5D)4F
1095.3877	-4.866	102802.312	2.5	6S (5D)4D	111929.000	2.5	290DD	1112.6392	-4.143	80346.016	0.5	5S (5D)4D	89331.195	1.5	5P (5D)6D
1095.5484	-2.876	80346.016	0.5	5S (5D)4D	89471.365	0.5	5P (5P)6D	1112.9368	-3.091	85048.602	1.5	4D (5D)4D	94031.378	0.5	4SP(5D)6D
1096.1119	-1.341	78843.992	0.5	5S (5D)6D	87964.650	1.5	4SP(5P)6D	1113.0531	-4.950	83713.536	3.5	4D (5D)6D	92695.374	2.5	4P (3P)2D
1096.1427	-3.782	99332.102	4.5	5S (3H)2H	90211.700	5.5	4P (3F)4G	1113.6270	-4.502	108630.429	5.5	5S (11)2I	99653.220	4.5	4SP(3G)2G
1096.1557	-2.651	84710.685	3.5	4D (5D)6G	93830.979	2.5	4SP(5D)6D	1114.2917	-3.785	85728.806	1.5	4D (5D)4S	94700.660	2.5	4P (3F)2D
1096.2709	-4.759	57493.321	1.5	D5S2(7S)4P	66612.656	1.5	4P (3G)4F	1114.3564	-2.913	102802.312	2.5	6S (5D)4D	93830.979	2.5	4SP(5D)6D
1096.6005	-4.036	84870.863	2.5	4D (5D)4D	93987.457	3.5	4SP(5D)6D	1114.3990	-4.915	84424.370	1.5	4D (5D)6P	93395.360	2.5	4P (3F)4F
1097.2451	-4.568	57411.065	2.5	D5S2(7S)4P	66522.304	2.5	4P (3G)4F	1114.4316	-3.969	78577.280	4.5	D5S2(7S)2G	69606.552	3.5	4P (3G)2F
1097.3241	-4.880	82978.677	4.5	4D (5D)6F	92089.260	3.5	4P (3G)4F	1114.4571	-4.709	73395.930	2.5	D5S2(7S)4D	64425.408	2.5	4P (3F)2F
1097.4443	-3.875	73395.930	2.5	D5S2(7S)4F	64286.345	3.5	4P (3F)4F	1114.5083	-3.641	104828.160	2.5	5D (5D)6D	95858.050	1.5	4SP(5P)4D
1097.7076	-4.743	73393.745	4.5	D5S2(7S)4F	64286.345	3.5	4P (3F)2F	1114.5870	-2.773	84870.863	2.5	4D (5D)4D	93840.340	1.5	4SP(5D)6D
1098.5540	-2.880	102584.963	5.5	5S (3G)4G	93484.580	4.5	4P (3F)4F	1114.7656	-2.843	79885.493	2.5	5S (5D)4D	88853.533	3.5	5P (5D)6D
1099.4220	-3.736	84938.180	1.5	4D (5D)6G	96031.378	0.5	4SP(3D)6D	1114.9921	-4.243	57411.065	2.5	D5S2(7S)4P	66377.283	3.5	4P (3G)4F
1099.4423	-4.017	105155.090	4.5	4D (3F)4G	96062.060	5.5	4SP(3G)2H	1115.5204	-4.737	102802.312	2.5	6S (5D)4D	93840.340	1.5	4SP(5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1115.7514	-4.867	84870.863	2.5	4D (5D)4D	1133.3467	-4.436	104588.710	1.5	5D (5D)6D	1133.3467	-4.436	104588.710	1.5	5D (5D)6D	95767.700	0.5	48P(5P)4D
1115.7818	-3.867	84527.778	4.5	4D (5D)6G	1134.1381	-2.812	102802.312	2.5	6S (5D)4D	1134.1381	-2.812	102802.312	2.5	6S (5D)4D	93987.457	3.5	48P(5D)6D
1116.1643	-4.665	84527.778	4.5	4D (5D)6G	1134.2298	-4.966	102802.312	2.5	6S (5D)4D	1134.2298	-4.966	102802.312	2.5	6S (5D)4D	93988.170	2.5	48P(5G)4G
1116.2288	-2.825	85728.806	1.5	4D (5D)4S	1134.6858	-4.291	10118.400	1.5	6S (5D)4D	1134.6858	-4.291	10118.400	1.5	6S (5D)4D	111929.000	2.5	290DD
1116.2698	-2.282	90824.045	2.5	5S (3F)4F	1135.1438	-0.799	99824.045	2.5	5S (3F)4F	1135.1438	-0.799	99824.045	2.5	5S (3F)4F	108631.090	3.5	48P(3G)4G
1116.3466	-4.103	86124.301	4.5	4D (5D)4F	1135.3810	-1.259	99824.045	2.5	5S (3F)4F	1135.3810	-1.259	99824.045	2.5	5S (3F)4F	108629.250	2.5	48P(3G)4G
1117.5652	-3.994	99332.102	4.5	5S (3H)2H	1135.6310	-4.793	73637.340	1.5	D5S2(7S)4F	1135.6310	-4.793	73637.340	1.5	D5S2(7S)4F	64834.073	1.5	4P (3P)2P
1117.9178	-1.131	99688.337	3.5	5S (3F)4F	1135.7361	-3.527	84685.198	3.5	4D (5D)4D	1135.7361	-3.527	84685.198	3.5	4D (5D)4D	93487.650	3.5	4P (3F)4F
1118.0767	-4.184	80177.975	1.5	5S (5D)4D	1135.9784	-2.498	99573.225	4.5	5S (3F)4F	1135.9784	-2.498	99573.225	4.5	5S (3F)4F	108373.800	3.5	260DD
1118.1478	-2.503	99688.337	3.5	5S (3F)4F	1136.1324	-2.931	84685.198	3.5	4D (5D)4D	1136.1324	-2.931	84685.198	3.5	4D (5D)4D	93484.580	4.5	4P (3F)4F
1118.4181	-3.382	102334.112	2.5	6S (5D)6D	1136.2941	-4.321	105155.090	4.5	4D (3F)4F	1136.2941	-4.321	105155.090	4.5	4D (3F)4F	96356.960	3.5	48P(3G)2F
1118.5535	-4.783	105155.090	4.5	4D (3F)4F	1137.0082	-3.302	99573.225	4.5	5S (3F)4F	1137.0082	-3.302	99573.225	4.5	5S (3F)4F	90780.621	3.5	5P (5D)4F
1118.5861	-2.598	103983.510	3.5	5S (3G)2G	1137.0956	-1.597	78843.992	0.5	5S (5D)6D	1137.0956	-1.597	78843.992	0.5	5S (5D)6D	87635.920	0.5	48P(5P)6D
1118.9837	-3.429	99332.102	4.5	5S (3H)2H	1137.1202	-3.841	85048.602	1.5	4D (5D)4D	1137.1202	-3.841	85048.602	1.5	4D (5D)4D	93840.340	1.5	48P(5D)6D
1119.0068	-4.969	105291.010	3.5	4D (3F)4F	1137.7058	-3.170	99688.337	3.5	5S (3F)4F	1137.7058	-3.170	99688.337	3.5	5S (3F)4F	90901.124	2.5	5P (5D)4F
1120.1199	-3.778	99824.045	2.5	5S (3F)4F	1138.3322	-4.801	85048.602	1.5	4D (5D)4D	1138.3322	-4.801	85048.602	1.5	4D (5D)4D	90804.979	2.5	48P(5D)6D
1120.4024	-3.649	99824.045	2.5	5S (3F)4F	1139.0341	-4.876	84710.685	3.5	4D (5D)6G	1139.0341	-4.876	84710.685	3.5	4D (5D)6G	93487.650	3.5	4P (3F)4F
1121.0559	-4.216	60384.370	0.5	D5S2(7S)4D	1139.1868	-3.214	99824.045	2.5	5S (3F)4F	1139.1868	-3.214	99824.045	2.5	5S (3F)4F	91048.256	1.5	5P (5D)4F
1121.9460	-1.038	99573.225	4.5	5S (3F)4F	1139.6295	-4.984	104630.430	1.5	5D (5D)6P	1139.6295	-4.984	104630.430	1.5	5D (5D)6P	95858.050	1.5	48P(5P)4D
1122.0098	-1.886	102394.718	3.5	6S (5D)4D	1139.8335	-4.619	105127.770	2.5	5D (5D)4D	1139.8335	-4.619	105127.770	2.5	5D (5D)4D	96356.960	3.5	48P(3G)2F
1122.0108	-1.482	78725.790	1.5	5S (5D)6D	1139.9410	-3.479	79439.467	3.5	5S (5D)4D	1139.9410	-3.479	79439.467	3.5	5S (5D)4D	88209.450	3.5	48P(5P)6D
1122.3149	-3.427	99688.337	3.5	5S (3F)4F	1140.0845	-4.287	102842.119	4.5	5S (3G)4G	1140.0845	-4.287	102842.119	4.5	5S (3G)4G	94073.240	3.5	48P(5G)4G
1122.3928	-2.147	99332.102	4.5	5S (3H)2H	1141.4670	-1.704	78843.992	0.5	5S (5D)6D	1141.4670	-1.704	78843.992	0.5	5S (5D)6D	87602.250	1.5	48P(5G)6F
1122.3966	-2.610	102394.718	3.5	6S (5D)4D	1141.7330	-4.022	83558.540	0.5	4D (5D)6F	1141.7330	-4.022	83558.540	0.5	4D (5D)6F	92314.758	0.5	5P (5D)4F
1122.4479	-3.751	103118.400	1.5	6S (5D)4D	1142.0878	-3.772	99824.045	2.5	5S (3F)4F	1142.0878	-3.772	99824.045	2.5	5S (3F)4F	91070.547	2.5	5P (5D)4F
1122.7997	-3.931	103983.510	3.5	5S (3G)2G	1142.6910	-4.557	85462.862	3.5	4D (5D)4G	1142.6910	-4.557	85462.862	3.5	4D (5D)4G	94211.739	2.5	48P(5P)4P
1123.0154	-3.785	84938.180	1.5	4D (5D)6G	1145.0753	-4.311	104588.710	1.5	5D (5D)6D	1145.0753	-4.311	104588.710	1.5	5D (5D)6D	95838.240	1.5	48P(5P)4D
1123.4066	-4.265	104757.110	0.5	5D (5D)6D	1145.2836	-4.313	102802.312	2.5	6S (5D)4D	1145.2836	-4.313	102802.312	2.5	6S (5D)4D	94073.240	3.5	48P(5G)4G
1123.4462	-4.965	54063.459	0.5	D6S (3P)2P	1146.4488	-3.441	98445.400	4.5	5S (3H)4H	1146.4488	-3.441	98445.400	4.5	5S (3H)4H	107165.600	3.5	170DD
1124.1975	-4.671	84938.180	1.5	4D (5D)6G	1146.6299	-3.213	99918.569	1.5	5S (3F)4F	1146.6299	-3.213	99918.569	1.5	5S (3F)4F	91199.746	0.5	5P (5D)4D
1124.7405	-4.078	85184.734	4.5	4D (5D)4G	1146.6588	-4.810	81734.750	3.5	D5S2(7S)2F	1146.6588	-4.810	81734.750	3.5	D5S2(7S)2F	73016.147	3.5	4P (1G)2F
1125.2095	-4.736	58631.531	4.5	D6S (1G)2G	1146.9440	-4.128	85495.304	2.5	4D (5D)6S	1146.9440	-4.128	85495.304	2.5	4D (5D)6S	94211.739	2.5	48P(5P)4P
1125.5337	-4.418	83136.487	3.5	4D (5D)6F	1147.3377	-3.990	83713.536	3.5	4D (5D)6D	1147.3377	-3.990	83713.536	3.5	4D (5D)6D	92426.980	4.5	48P(5G)4F
1125.5361	-0.824	99688.337	3.5	5S (3F)4F	1147.4398	-1.576	102543.648	1.5	6S (5D)6D	1147.4398	-1.576	102543.648	1.5	6S (5D)6D	93830.979	2.5	48P(5D)6D
1126.1298	-4.282	104873.230	3.5	5D (5D)4D	1147.5346	-3.351	98294.401	5.5	5S (3H)4H	1147.5346	-3.351	98294.401	5.5	5S (3H)4H	107006.350	4.5	48P(3I)2H
1126.2668	-1.152	78725.790	1.5	5S (5D)6D	1147.7017	-0.814	99918.569	1.5	5S (3F)4F	1147.7017	-0.814	99918.569	1.5	5S (3F)4F	108629.250	2.5	48P(3G)4G
1126.7822	-4.902	83726.364	4.5	4D (5D)6D	1147.7700	-4.482	84685.198	3.5	4D (5D)4D	1147.7700	-4.482	84685.198	3.5	4D (5D)4D	93395.360	2.5	4P (3F)4F
1126.7011	-4.194	85184.734	4.5	4D (5D)4G	1147.8270	-3.721	104705.420	3.5	5D (5D)6D	1147.8270	-3.721	104705.420	3.5	5D (5D)6D	95995.690	2.5	48P(5P)4D
1126.9285	-3.231	99093.452	5.5	5S (3H)2H	1148.1969	-4.397	99093.452	5.5	5S (3H)2H	1148.1969	-4.397	99093.452	5.5	5S (3H)2H	90386.528	4.5	5P (5D)4F
1127.0473	-3.579	99918.569	1.5	5S (3F)4F	1148.3488	-4.293	83726.364	4.5	4D (5D)6D	1148.3488	-4.293	83726.364	4.5	4D (5D)6D	92432.136	5.5	48P(5D)6F
1127.9335	-4.341	84266.556	3.5	4D (5D)6P	1148.6739	-2.596	102543.648	1.5	6S (5D)6D	1148.6739	-2.596	102543.648	1.5	6S (5D)6D	93840.340	1.5	48P(5D)6F
1128.0116	-4.243	104630.430	1.5	5D (5D)6F	1149.0293	-3.881	83726.364	4.5	4D (5D)6D	1149.0293	-3.881	83726.364	4.5	4D (5D)6D	92426.980	4.5	48P(5G)4F
1128.1770	-3.151	99918.569	1.5	5S (3F)4F	1149.0423	-4.936	87985.628	2.5	4D (5D)4G	1149.0423	-4.936	87985.628	2.5	4D (5D)4G	79285.110	2.5	48P(5S)6P
1128.2246	-3.326	60441.033	1.5	D5S2(7S)4D	1149.9555	-3.733	102842.119	4.5	4D (3G)4G	1149.9555	-3.733	102842.119	4.5	4D (3G)4G	94148.510	4.5	48P(5G)4G
1128.5415	-3.314	85172.809	0.5	4D (5D)4D	1151.0340	-4.652	99688.337	3.5	5S (3F)4F	1151.0340	-4.652	99688.337	3.5	5S (3F)4F	108373.800	3.5	260DD
1128.7650	-2.896	60445.275	2.5	D5S2(7S)4D	1151.1384	-4.022	84710.685	3.5	4D (5D)6G	1151.1384	-4.022	84710.685	3.5	4D (5D)6G	93395.360	2.5	4P (3F)4F
1128.9851	-3.720	83459.670	1.5	4D (5D)6F	1151.9011	-4.951	98568.912	3.5	5S (3H)4H	1151.9011	-4.951	98568.912	3.5	5S (3H)4H	89890.373	3.5	4P (3F)4G
1129.1009	-4.392	105211.140	4.5	5D (5D)4G	1152.9523	-4.305	54273.641	4.5	D5S2(7S)4G	1152.9523	-4.305	54273.641	4.5	D5S2(7S)4G	62945.038	3.5	4P (3F)4G
1129.8867	-4.753	99918.569	1.5	5S (3F)4F	1153.4153	-4.967	85172.809	0.5	4D (5D)4D	1153.4153	-4.967	85172.809	0.5	4D (5D)4D	93840.340	1.5	48P(5D)6D
1130.0631	-1.184	78725.790	1.5	5S (5D)6D	1153.6224	-1.700	99573.225	4.5	5S (3F)4F	1153.6224	-1.700	99573.225	4.5	5S (3F)4F	108239.200	3.5	240DD
1130.0860	-3.896	102334.112	2.5	6S (5D)6D	1154.1761	-4.227	54283.220	3.5	D5S2(7S)4G	1154.1761	-4.227	54283.220	3.5	D5S2(7S)4G	62945.038	3.5	4P (3F)4D
1130.1487	-4.233	83308.194	2.5	4D (5D)6F	1154.2388	-4.766	60441.033	1.5	D5S2(7S)4D	1154.2388	-4.766	60441.033	1.5	D5S2(7S)4D	69102.380	2.5	48P(5S)4P
1130.7113	-3.549	98568.912	3.5	5S (3H)4H	1154.3451	-3.998	100749.810	2.5	5S (3F)2F	1154.3451	-3.998	100749.810	2.5	5S (3F)2F	92089.260	3.5	48P(5G)4H
1131.8762	-4.935	104828.160	2.5	5D (5D)6D	1154.3821	-4.001	73492.215	3.5	D5S2(7S)4F	1154.3821	-4.001	73492.215	3.5	D5S2(7S)4F	64831.943	4.5	4P (3F)2G
1131.9312	-2.672	60270.339	3.5	D5S2(7S)4D	1154.8044	-3.589	60445.275	2.5	D5S2(7S)4D	1154.8044	-3.589	60445.275	2.5	D5S2(7S)4D	69102.380	2.5	48P(5S)4P
1132.0835	-4.049	73637.340	1.5	D5S2(7S)4F	1154.9772	-3.											

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
1157.2356	-3.821	86124.301	4.5	4D (5D)4F	94763.219	3.5	4SP(5D)6P	1182.0426	-4.711	84870.863	2.5	4D (5D)4D
1157.6866	-4.096	102030.912	3.5	6S (5D)6D	93395.360	2.5	4P (3F)4F	1182.2295	-4.001	83459.670	1.5	4D (5D)6F
1157.7183	-2.314	102666.694	0.5	6D (5D)6D	94031.378	0.5	4SP(5D)6D	1182.6699	-2.564	99918.569	1.5	5S (3F)4F
1158.0766	-3.566	84266.556	3.5	4D (5D)6P	92899.200	2.5	4P (3F)4D	1183.7593	-4.753	83726.364	4.5	4D (5D)6D
1158.0828	-2.393	99332.102	4.5	5S (3H)2H	107964.700	4.5	210DD	1183.8504	-2.964	84685.198	3.5	4D (5D)4D
1158.7956	-4.228	98568.912	3.5	5S (3H)4H	107196.200	2.5	180DD	1184.1924	-2.107	99688.337	3.5	5S (3F)4F
1159.6100	-1.576	84863.331	5.5	4D (5D)4D	93484.580	4.5	4P (3F)4F	1184.5854	-4.564	86599.738	2.5	4D (5D)4F
1159.7870	-4.036	79439.467	3.5	5S (5D)4D	88059.380	2.5	4SP(5P)6D	1184.6991	-1.787	83136.448	3.5	4D (5D)6F
1160.0727	-3.868	99688.337	3.5	5S (3F)4F	91070.547	2.5	5P (5D)4F	1185.0079	-4.691	102584.963	5.5	5S (3G)4G
1160.2078	-2.910	84870.863	2.5	4D (5D)4D	93487.650	3.5	4P (3F)4F	1185.4496	-3.948	103118.400	1.5	6S (5D)4D
1160.2661	-4.580	83713.536	3.5	4D (5D)6D	92329.890	2.5	4SP(5G)4F	1185.8067	-4.256	104426.460	2.5	4D (5D)6F
1160.4272	-3.617	99824.045	2.5	5S (3F)4F	91208.887	1.5	5P (5D)4F	1185.9081	-4.224	54232.195	5.5	D5S2(7S)4G
1161.4250	-4.486	83308.194	2.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F	1186.0813	-4.489	84266.556	3.5	4D (5D)6D
1162.1857	-4.172	84527.778	4.5	4D (5D)6G	93129.900	3.5	4P (3F)4D	1186.2245	-3.049	83726.364	4.5	4D (5D)6F
1162.9203	-3.626	98568.912	3.5	5S (3H)4H	107165.600	3.5	170DD	1187.3348	-4.588	100749.810	2.5	5S (3F)2F
1163.4167	-4.308	104598.710	1.5	5D (5D)6D	95995.690	2.5	4SP(5P)4D	1188.0071	-3.774	99824.042	2.5	5S (3F)4F
1163.6277	-4.398	81734.750	3.5	D5S2(7S)2F	73143.288	3.5	4P (1G)2G	1188.0826	-4.490	100492.020	3.5	5S (3F)2F
1163.7481	-2.870	102802.312	2.5	6S (5D)4D	94211.739	2.5	4SP(5P)4P	1188.1359	-4.815	54275.637	2.5	D5S2(7S)4G
1164.2675	-4.549	83713.536	3.5	4D (5D)6D	92300.277	4.5	4SP(5D)6F	1188.2800	-4.380	83812.316	2.5	4D (5D)6D
1164.8364	-3.516	78185.030	3.5	D5S2(7S)2G	86767.577	2.5	4P (3F)4D	1189.1226	-2.276	102394.718	3.5	6S (5D)4D
1165.3889	-3.835	78185.030	3.5	D5S2(7S)2G	69606.552	3.5	4P (3G)2F	1189.2076	-4.652	54283.220	3.5	D5S2(7S)4G
1166.0094	-3.291	83726.364	4.5	4D (5D)6D	92300.277	4.5	4SP(5D)6F	1189.5405	-4.598	108804.667	3.5	5S (3D)4D
1166.2305	-4.788	84326.912	2.5	4D (5D)6P	92899.200	2.5	4P (3F)4D	1189.8037	-3.902	54870.528	2.5	D6S (5D)6F
1166.7339	-4.806	101698.489	4.5	6S (5D)6D	93129.900	3.5	4P (3F)4D	1190.7502	-2.764	98294.401	5.5	5S (3H)4H
1167.4811	-2.870	102802.312	2.5	6S (5D)6D	92300.277	4.5	4SP(5D)6F	1190.8475	-3.352	102584.963	5.5	5S (3G)4G
1167.7250	-3.244	98445.400	4.5	5S (3H)4H	107006.350	4.5	4SP(31)2H	1190.9630	-3.003	98130.131	6.5	5S (3H)4H
1167.8749	-4.106	83713.536	3.5	4D (5D)6D	107006.350	4.5	4SP(31)2H	1191.3595	-1.954	99573.225	4.5	5S (3F)4F
1167.8993	-3.018	98130.131	6.5	5S (3H)4H	92274.120	2.5	4P (3F)4P	1191.3986	-4.198	100749.810	2.5	5S (3F)2F
1168.0375	-4.997	83726.364	4.5	4D (5D)6F	106690.170	5.5	4SP(31)2H	1192.2440	-3.649	104380.940	3.5	5D (5D)6F
1168.4375	-4.997	83726.364	4.5	4D (5D)6F	92282.460	3.5	4SP(5G)4F	1192.2861	-2.840	103265.694	0.5	6S (5D)4D
1168.5835	-3.518	98445.400	4.5	5S (3H)4H	92282.460	3.5	4SP(5G)4F	1192.4502	-2.179	83459.670	1.5	4D (5D)6F
1168.6581	-3.570	99332.102	4.5	5S (3H)2H	89890.373	3.5	4P (3F)4G	1192.6300	-4.940	73492.215	3.5	D5S2(7S)4F
1169.0681	-3.570	99332.102	4.5	5S (3H)2H	107886.600	3.5	200DD	1193.1005	-2.957	103118.400	1.5	6S (5D)4D
1169.1526	-2.776	99688.337	3.5	5S (3F)4F	90780.621	3.5	5P (5D)4F	1193.4239	-2.799	100492.020	3.5	5S (3G)2F
1169.3041	-4.508	99824.045	2.5	5S (3F)4F	108239.200	3.5	240DD	1193.6689	-4.571	100492.020	3.5	5S (3F)2F
1169.5914	-2.427	99824.045	2.5	5S (3F)4F	108373.800	3.5	260DD	1194.2262	-4.694	87985.628	2.5	4D (5D)4F
1170.1928	-3.255	102030.912	3.5	6S (5D)6D	108371.700	1.5	250DD	1194.5941	-4.798	54904.222	3.5	D6S (3F)2F
1171.2877	-2.481	83308.194	2.5	4D (5D)6D	93484.580	4.5	4P (3F)4F	1194.6850	-4.147	83462.862	3.5	4D (5D)4G
1171.3879	-4.292	78185.030	3.5	D5S2(7S)2G	93487.650	3.5	4P (3F)4F	1195.4309	-4.126	83726.364	4.5	4D (5D)6D
1171.5328	-3.565	100749.810	2.5	5S (3F)2F	91843.470	1.5	5P (5D)6P	1195.4932	-2.657	78185.030	3.5	D5S2(7S)2G
1172.1126	-2.575	103608.909	4.5	5S (3G)2G	69650.484	2.5	4P (3G)2F	1196.2156	-4.421	83558.540	0.5	4D (5D)6F
1172.3984	-4.604	102584.963	5.5	5S (3G)4G	92216.320	1.5	4P (3P)2D	1196.9375	-3.599	78577.280	4.5	D5S2(7S)2G
1172.4899	-4.371	103265.694	0.5	6S (5D)4D	95079.640	3.5	4P (3F)2F	1197.4980	-4.415	104705.420	3.5	5D (5D)6D
1172.6572	-4.110	85462.862	3.5	4SP(5G)4G	94037.773	4.5	4SP(5D)6D	1197.7422	-2.920	85048.602	1.5	4D (5D)4F
1173.3507	-4.673	57411.065	2.5	D5S2(7S)4P	94739.170	1.5	4SP(5P)4P	1197.7569	-1.578	102334.112	2.5	6S (3D)6D
1173.7219	-4.673	83812.316	2.5	4D (5D)6D	93988.170	2.5	4SP(5G)4G	1197.8593	-4.952	102334.112	2.5	6S (5D)6D
1173.9017	-4.338	104873.230	3.5	5D (5D)4D	65931.334	3.5	4P (3G)4G	1197.9893	-2.388	85495.304	2.5	6S (5D)6S
1174.4533	-1.820	102543.648	1.5	6S (5D)6D	92329.890	2.5	4SP(5G)4F	1199.1520	-2.426	102394.718	3.5	6S (5D)4D
1176.7063	-4.334	81639.260	2.5	D5S2(7S)2F	73143.288	3.5	4P (1G)2G	1199.3347	-2.451	85495.304	2.5	4D (5D)6S
1177.0111	-2.046	102334.112	2.5	6S (5D)6D	96356.960	3.5	4SP(3G)2F	1199.8768	-3.369	102543.648	1.5	6S (3D)6D
1177.2355	-2.875	85495.304	2.5	4D (5D)6S	93830.378	0.5	4SP(5D)6D	1200.9166	-4.293	83990.063	1.5	4D (5D)6D
1177.4159	-4.294	84844.834	2.5	4D (5D)6G	93840.340	1.5	4SP(5D)6D	1201.0230	-4.456	79885.493	2.5	5S (5D)4D
1178.5150	-2.441	85728.806	1.5	4D (5D)4S	93987.457	3.5	4SP(5D)6D	1201.5079	-4.186	84326.912	2.5	4D (5D)6F
1179.6418	-4.672	84424.370	1.5	4D (5D)6P	93328.480	1.5	4P (3F)4F	1201.5503	-4.509	100492.020	3.5	5S (3F)2F
1181.4577	-4.300	83812.316	2.5	4D (5D)6D	94211.739	2.5	4SP(5P)4P	1202.5518	-3.333	99573.225	4.5	5S (3F)4F
					92899.200	2.5	4P (3F)4D	1203.3256	-4.495	81734.750	3.5	D5S2(7S)2F
					92274.120	2.5	4P (3F)4D	1203.5391	-2.647	99824.045	2.5	5S (3F)4F
								1203.7365	-3.322	83713.536	3.5	4D (5D)6D

WL(NM)	LOGGFF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGFF	EVEN E	J	LABEL
1204.0559	-3.914	80346.016	0.5	5S (5D)4D	72043.026	1.5	4P (3D)4P	1231.8776	-2.089	83459.670	1.5	4D (5D)6F
1204.0666	-1.788	85184.734	4.5	4D (5D)4G	93487.650	3.5	4P (3F)4F	1232.4752	-3.344	85728.806	1.5	4D (5D)4S
1204.1165	-3.621	85728.806	1.5	4D (5D)4S	94031.378	0.5	4SP(5D)6D	1233.6767	-4.087	83812.316	2.5	4D (5D)6D
1204.5120	-2.491	85184.734	4.5	4D (5D)4G	93484.580	4.5	4P (3F)4F	1233.8992	-3.272	85728.806	1.5	4D (5D)4S
1204.8206	-4.420	78185.030	3.5	D5S2(7S)2G	86482.750	3.5	4P (1F)2F	1233.9785	-4.536	102802.312	2.5	6S (5D)4D
1205.3191	-3.912	98568.912	3.5	5S (3H)4H	106863.200	3.5	1600D	1234.5068	-3.191	79439.467	3.5	5S (5D)4D
1205.6253	-4.543	83558.540	0.5	4D (5D)6F	91850.722	0.5	4SP(5D)6F	1235.1489	-4.264	84131.563	0.5	4D (5D)6D
1206.4682	-4.772	73395.930	2.5	D5S2(7S)4F	65109.679	3.5	4P (3F)2G	1235.14997	-4.452	54870.528	2.5	D6S (3F)2F
1206.6806	-2.678	83558.540	0.5	4D (5D)6F	91843.470	1.5	5P (5D)6P	1237.4077	-4.450	103118.400	1.5	6S (5D)4D
1207.4168	-4.322	85048.602	1.5	4D (5D)4D	93328.480	1.5	4P (3F)4F	1237.5088	-3.525	10492.072	3.5	5S (3F)2F
1207.9296	-4.054	99688.337	3.5	5S (3F)4F	107964.700	4.5	2100D	1238.0629	-3.939	80452.778	4.5	4D (5D)6G
1209.0408	-4.097	86416.333	3.5	4D (5D)4F	94685.090	2.5	4SP(5D)6P	1238.1265	-4.552	54870.528	2.5	D6S (3F)2F
1209.3058	-1.618	83308.194	2.5	4D (5D)6F	91575.139	2.5	5P (5D)6P	1238.7510	-8.832	30388.542	4.5	D6S (3G)2G
1209.9306	-2.591	78577.280	4.5	D5S2(7S)2G	70314.604	4.5	4P (3G)2G	1239.44975	-3.758	86124.301	4.5	4D (5D)4F
1209.9973	-4.540	104120.270	2.5	5D (5D)6P	95858.050	1.5	4SP(5P)4D	1239.8426	-3.623	84266.556	3.5	4D (5D)6F
1210.4637	-3.942	84870.863	2.5	4D (5D)4D	93129.900	3.5	4P (3F)4D	1239.8721	-2.253	102802.312	2.5	6S (5D)4D
1211.3036	-2.758	104315.370	6.5	4D (3H)2K	90602.060	5.5	4SP(3G)2H	1239.9624	-2.689	99824.045	2.5	5S (3F)4F
1211.5514	-3.513	98294.401	5.5	5S (3H)4H	90042.779	4.5	4P (3F)4G	1240.0260	-4.309	54063.459	0.5	D6S (3P)2P
1211.6261	-4.746	81639.260	2.5	D5S2(7S)2F	89890.373	3.5	4P (3F)4G	1240.3724	-4.595	54902.315	1.5	D6S (3P)2P
1212.3468	-4.542	102394.718	3.5	6S (5D)4D	94148.510	4.5	4SP(5G)4G	1241.2123	-4.413	100749.810	2.5	5S (3F)2F
1212.5583	-3.744	98445.400	4.5	5S (3H)4H	106690.170	5.5	4SP(3I)2H	1241.3451	-3.714	78577.280	4.5	D5S2(7S)2G
1213.6049	-2.624	103118.400	1.5	6S (5D)4D	94880.740	0.5	4SP(5P)4P	1242.0829	-3.597	54273.641	4.5	D5S2(7S)4G
1213.9269	-4.114	83990.063	1.5	4D (5D)6D	92225.538	1.5	5P (5D)4P	1242.3910	-3.309	54273.641	4.5	D5S2(7S)4G
1215.2521	-4.797	103265.694	0.5	6S (5D)4D	95039.200	1.5	4P (3P)2P	1242.9068	-1.574	102030.912	3.5	6S (5D)6D
1217.1003	-3.297	84685.198	3.5	4D (5D)4D	92899.200	2.5	4P (3P)4D	1243.3147	-3.626	54904.222	3.5	D6S (3F)2F
1217.1141	-4.845	101698.489	4.5	6S (5D)6D	93484.580	4.5	4P (3F)4F	1243.5629	-3.575	54283.220	3.5	D5S2(7S)4G
1217.2095	-4.078	80177.975	1.5	5S (3F)4F	71964.710	2.5	4P (3D)4P	1243.5812	-3.365	102802.312	2.5	6S (5D)4D
1217.3924	-2.886	99918.569	1.5	5S (3F)4F	108130.600	2.5	2200D	1244.4127	-4.331	79439.467	3.5	5S (5D)6F
1217.7589	-4.120	100492.020	3.5	5S (3F)2F	92282.460	3.5	4SP(5G)4F	1244.6332	-3.977	84326.912	2.5	4D (5D)6F
1218.2258	-3.503	83812.316	2.5	4D (5D)6F	96217.420	3.5	4SP(5P)4D	1244.7646	-1.426	83136.487	3.5	4D (5D)6F
1218.2937	-3.862	98130.131	6.5	5S (3H)4H	89924.175	5.5	5P (5D)6F	1244.8105	-4.996	83812.316	2.5	4D (5D)6F
1219.1885	-2.084	102030.912	3.5	6S (5D)6D	93830.979	2.5	4SP(5D)6D	1244.9599	-2.754	100749.810	2.5	5S (3F)2F
1219.4369	-1.868	99688.337	3.5	5S (3F)4F	107886.600	3.5	2000D	1244.9661	-4.077	73393.745	4.5	D5S2(7S)4F
1220.0311	-3.454	104411.690	4.5	5D (5D)6D	96217.420	3.5	4SP(5P)4D	1245.1963	-3.665	83990.063	1.5	4D (5D)6D
1220.7775	-1.386	82978.677	4.5	4D (5D)6F	91167.937	3.5	5P (5D)6P	1245.2473	-3.199	84870.863	2.5	4D (5D)4D
1220.8886	-4.371	84710.685	3.5	4D (5D)6G	92899.200	2.5	4P (3F)4D	1245.7980	-2.525	85462.862	3.5	4D (5D)4G
1221.7145	-2.436	102394.718	3.5	6S (5D)4D	94211.739	2.5	4SP(5P)4P	1246.2748	-4.101	85462.862	3.5	4D (5D)4G
1223.0735	-3.672	79885.493	2.5	5S (5D)4D	88059.380	2.5	4SP(5P)6D	1248.0883	-4.748	87985.628	2.5	4D (5D)4D
1223.6699	-4.873	86710.837	1.5	4D (5D)4F	94880.740	0.5	4SP(5P)4P	1248.2574	-4.075	80177.975	1.5	5S (5D)4D
1224.6267	-4.723	104380.940	3.5	5D (5D)6F	96217.420	3.5	4SP(5P)4D	1248.4777	-3.173	84266.556	3.5	4D (5D)6P
1224.8352	-4.569	100492.020	3.5	5S (3F)2F	92329.890	2.5	4SP(5G)4F	1248.8588	-4.214	104000.810	3.5	5D (5D)6P
1225.0913	-3.685	84266.556	3.5	4D (5D)6P	93840.340	1.5	4SP(5G)4F	1249.1199	-2.566	104096.670	3.5	4D (5D)6G
1225.6311	-2.780	100749.810	2.5	5S (3F)2F	92426.980	4.5	4SP(5G)4F	1249.2505	-4.886	104096.670	3.5	4D (5D)6G
1225.8053	-3.127	85172.809	0.5	4D (5D)4D	93328.480	1.5	4P (3F)4F	1253.8681	-1.736	102030.912	3.5	6S (5D)6D
1227.0938	-4.665	100749.810	2.5	5S (3F)2F	92602.703	3.5	4P (3F)2G	1253.8681	-1.736	102030.912	3.5	6S (5D)6D
1227.4451	-4.868	98445.400	4.5	5S (3H)4H	90300.625	3.5	5P (5D)6F	1255.1499	-3.335	80177.975	1.5	5S (5D)4D
1228.2509	-4.239	86599.738	2.5	4D (5D)4F	94739.170	1.5	4SP(5P)4P	1257.6855	-4.773	86124.301	4.5	4D (5D)4F
1228.3055	-4.043	100492.020	3.5	5S (3F)2F	108631.090	3.5	4SP(3G)4G	1258.2867	-2.012	85184.773	4.5	4D (5D)4G
1228.5833	-3.279	100492.020	3.5	5S (3F)2F	10629.250	2.5	4SP(3G)4G	1259.1867	-4.997	104174.270	5.5	4D (3H)4I
1228.8738	-3.708	84296.830	5.5	4D (5D)6G	92432.136	5.5	4SP(5D)6F	1259.7463	-4.935	73492.215	3.5	D5S2(7S)4F
1228.9277	-3.267	80177.975	1.5	5S (5D)4D	72043.026	1.5	4P (3D)4P	1259.8837	-4.696	104174.270	5.5	4D (3H)4I
1229.2165	-3.465	80346.016	0.5	5S (5D)4D	72212.978	0.5	4P (3D)4P	1260.0440	-2.297	83136.487	3.5	4D (5D)6F
1229.2277	-3.357	79439.467	3.5	5S (5D)4D	87572.431	2.5	4SP(5G)6F	1260.1374	-4.906	86124.301	4.5	4D (5D)4F
1229.6531	-3.224	84296.830	5.5	4D (5D)6G	92426.980	4.5	4SP(5G)4F	1260.2922	-1.662	85462.862	3.5	4D (5D)4G
1230.4962	-3.922	104120.270	2.5	5D (5D)6P	95995.690	2.5	4SP(5P)4D	1261.0829	-2.488	102666.694	0.5	6S (5D)6D
1230.8305	-4.632	102334.112	2.5	6S (5D)6D	94211.739	2.5	4SP(5P)4D	1261.3389	-2.795	54232.195	5.5	D5S2(7S)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1261.3434	-2.733	83990.063	1.5	4D (5D)6D	1261.3434	-2.733	83990.063	1.5	4D (5D)6D	1261.3434	-2.733	83990.063	1.5	4D (5D)6D	94211.739	2.5	4SP(5P)4P
1261.8428	-4.592	58666.258	3.5	D6S (1G)2G	1261.8428	-4.592	58666.258	3.5	D6S (1G)2G	1261.8428	-4.592	58666.258	3.5	D6S (1G)2G	62065.521	3.5	4P (3F)4F
1262.1562	-3.190	79885.493	2.5	5S (5D)4D	1262.1562	-3.190	79885.493	2.5	5S (5D)4D	1262.1562	-3.190	79885.493	2.5	5S (5D)4D	62065.521	3.5	4P (3F)4F
1262.5311	-3.711	98130.131	6.5	5S (3H)4H	1262.5311	-3.711	98130.131	6.5	5S (3H)4H	1262.5311	-3.711	98130.131	6.5	5S (3H)4H	62689.880	2.5	4P (3F)4D
1262.6787	-4.782	84685.198	3.5	4D (5D)4D	1262.6787	-4.782	84685.198	3.5	4D (5D)4D	1262.6787	-4.782	84685.198	3.5	4D (5D)4D	87964.650	1.5	4SP(5P)6D
1262.8701	-3.595	80346.016	0.5	5S (5D)4D	1262.8701	-3.595	80346.016	0.5	5S (5D)4D	1262.8701	-3.595	80346.016	0.5	5S (5D)4D	94880.740	0.5	4SP(5P)4P
1264.2167	-4.475	98294.401	5.5	5S (3H)4H	1264.2167	-4.475	98294.401	5.5	5S (3H)4H	1264.2167	-4.475	98294.401	5.5	5S (3H)4H	94880.740	0.5	4SP(5P)4P
1264.5930	-4.429	84424.370	1.5	4D (5D)6P	1264.5930	-4.429	84424.370	1.5	4D (5D)6P	1264.5930	-4.429	84424.370	1.5	4D (5D)6P	91915.950	1.5	4SP(5D)6F
1264.6010	-2.707	78577.280	4.5	D5S2(7S)2G	1264.6010	-2.707	78577.280	4.5	D5S2(7S)2G	1264.6010	-2.707	78577.280	4.5	D5S2(7S)2G	91915.950	1.5	4SP(5D)6F
1264.6502	-4.969	84266.556	3.5	4D (5D)6P	1264.6502	-4.969	84266.556	3.5	4D (5D)6P	1264.6502	-4.969	84266.556	3.5	4D (5D)6P	96217.420	3.5	4SP(5P)4D
1264.8330	-4.084	105230.290	0.5	5D (5D)4D	1264.8330	-4.084	105230.290	0.5	5D (5D)4D	1264.8330	-4.084	105230.290	0.5	5D (5D)4D	92647.420	1.5	4P (3F)4D
1265.0202	-4.335	104120.270	2.5	5D (5D)6P	1265.0202	-4.335	104120.270	2.5	5D (5D)6P	1265.0202	-4.335	104120.270	2.5	5D (5D)6P	92300.277	4.5	4SP(5D)6F
1265.3656	-2.694	83308.194	2.5	4D (5D)6F	1265.3656	-2.694	83308.194	2.5	4D (5D)6F	1265.3656	-2.694	83308.194	2.5	4D (5D)6F	90901.124	2.5	5P (5D)4F
1265.4676	-4.715	85495.304	2.5	4D (5D)6S	1265.4676	-4.715	85495.304	2.5	4D (5D)6S	1265.4676	-4.715	85495.304	2.5	4D (5D)6S	95039.200	1.5	4P (3P)2P
1265.6044	-4.445	84527.778	4.5	4D (5D)6G	1265.6044	-4.445	84527.778	4.5	4D (5D)6G	1265.6044	-4.445	84527.778	4.5	4D (5D)6G	91575.139	2.5	5P (5D)6P
1265.6967	-2.863	84326.912	2.5	4D (5D)6P	1265.6967	-2.863	84326.912	2.5	4D (5D)6P	1265.6967	-2.863	84326.912	2.5	4D (5D)6P	95079.640	3.5	4P (3F)2F
1267.1902	-4.786	100492.020	3.5	5S (3F)2F	1267.1902	-4.786	100492.020	3.5	5S (3F)2F	1267.1902	-4.786	100492.020	3.5	5S (3F)2F	91070.547	2.5	5P (5D)4F
1267.2895	-3.308	98294.401	5.5	5S (3H)4H	1267.2895	-3.308	98294.401	5.5	5S (3H)4H	1267.2895	-3.308	98294.401	5.5	5S (3H)4H	92282.460	3.5	4SP(5G)4F
1267.4646	-3.268	84266.556	3.5	4D (5D)6P	1267.4646	-3.268	84266.556	3.5	4D (5D)6P	1267.4646	-3.268	84266.556	3.5	4D (5D)6P	92018.787	1.5	4SP(5D)6F
1267.9694	-2.935	54273.641	4.5	D5S2(7S)4G	1267.9694	-2.935	54273.641	4.5	D5S2(7S)4G	1267.9694	-2.935	54273.641	4.5	D5S2(7S)4G	91208.829	1.5	5P (5D)4F
1268.4020	-3.407	100492.020	3.5	5S (3F)2F	1268.4020	-3.407	100492.020	3.5	5S (3F)2F	1268.4020	-3.407	100492.020	3.5	5S (3F)2F	72429.711	0.5	4P (3D)4D
1268.4824	-3.434	100749.810	2.5	5S (3F)2F	1268.4824	-3.434	100749.810	2.5	5S (3F)2F	1268.4824	-3.434	100749.810	2.5	5S (3F)2F	108239.200	3.5	240DD
1268.7786	-3.236	100749.810	2.5	5S (3F)2F	1268.7786	-3.236	100749.810	2.5	5S (3F)2F	1268.7786	-3.236	100749.810	2.5	5S (3F)2F	96239.200	4.5	4SP(3G)2H
1269.3451	-3.186	54275.637	2.5	D5S2(7S)4G	1269.3451	-3.186	54275.637	2.5	D5S2(7S)4G	1269.3451	-3.186	54275.637	2.5	D5S2(7S)4G	92426.980	4.5	4SP(5G)4F
1269.5117	-4.004	54283.220	3.5	D5S2(7S)4G	1269.5117	-4.004	54283.220	3.5	D5S2(7S)4G	1269.5117	-4.004	54283.220	3.5	D5S2(7S)4G	92426.980	4.5	4SP(5G)4F
1269.5124	-4.348	84296.830	5.5	4D (5D)6G	1269.5124	-4.348	84296.830	5.5	4D (5D)6G	1269.5124	-4.348	84296.830	5.5	4D (5D)6G	91199.746	0.5	5P (5D)4D
1269.9097	-4.468	87985.628	2.5	4D (5D)4F	1269.9097	-4.468	87985.628	2.5	4D (5D)4F	1269.9097	-4.468	87985.628	2.5	4D (5D)4F	91048.256	1.5	5P (5D)4D
1270.2318	-4.169	78185.030	3.5	D5S2(7S)2G	1270.2318	-4.169	78185.030	3.5	D5S2(7S)2G	1270.2318	-4.169	78185.030	3.5	D5S2(7S)2G	92089.260	3.5	4SP(5G)4H
1270.5684	-3.027	54283.220	3.5	D5S2(7S)4G	1270.5684	-3.027	54283.220	3.5	D5S2(7S)4G	1270.5684	-3.027	54283.220	3.5	D5S2(7S)4G	96217.420	3.5	4SP(5P)4D
1271.4062	-3.599	86124.301	4.5	4D (5D)4F	1271.4062	-3.599	86124.301	4.5	4D (5D)4F	1271.4062	-3.599	86124.301	4.5	4D (5D)4F	94148.510	4.5	4SP(5C)4G
1271.6573	-1.671	83713.536	3.5	4D (5D)6P	1271.6573	-1.671	83713.536	3.5	4D (5D)6P	1271.6573	-1.671	83713.536	3.5	4D (5D)6P	92602.703	3.5	4P (3F)2G
1271.9583	-1.955	83308.194	2.5	4D (5D)6F	1271.9583	-1.955	83308.194	2.5	4D (5D)6F	1271.9583	-1.955	83308.194	2.5	4D (5D)6F	95079.640	3.5	4P (3F)2F
1272.1501	-2.120	102543.648	1.5	6S (5D)6D	1272.1501	-2.120	102543.648	1.5	6S (5D)6D	1272.1501	-2.120	102543.648	1.5	6S (5D)6D	87898.122	0.5	4SP(5D)6F
1272.9845	-1.414	83990.063	1.5	4D (5D)6D	1272.9845	-1.414	83990.063	1.5	4D (5D)6D	1272.9845	-1.414	83990.063	1.5	4D (5D)6D	87602.250	1.5	4SP(5G)6F
1273.3889	-4.097	54232.195	5.5	D5S2(7S)4G	1273.3889	-4.097	54232.195	5.5	D5S2(7S)4G	1273.3889	-4.097	54232.195	5.5	D5S2(7S)4G	72168.998	1.5	4P (3D)4F
1273.4380	-4.954	100749.810	2.5	5S (3F)2F	1273.4380	-4.954	100749.810	2.5	5S (3F)2F	1273.4380	-4.954	100749.810	2.5	5S (3F)2F	92426.980	4.5	4SP(5G)4F
1273.5430	-4.270	84424.370	1.5	4D (5D)6P	1273.5430	-4.270	84424.370	1.5	4D (5D)6P	1273.5430	-4.270	84424.370	1.5	4D (5D)6P	93395.360	2.5	4P (3F)4F
1274.6756	-4.678	102543.648	1.5	6S (5D)6D	1274.6756	-4.678	102543.648	1.5	6S (5D)6D	1274.6756	-4.678	102543.648	1.5	6S (5D)6D	93987.457	3.5	4SP(5D)6D
1274.7603	-3.029	79885.493	2.5	5S (5D)4D	1274.7603	-3.029	79885.493	2.5	5S (5D)4D	1274.7603	-3.029	79885.493	2.5	5S (5D)4D	94685.090	2.5	4SP(5D)6P
1276.2198	-2.772	99332.102	4.5	5S (3H)2H	1276.2198	-2.772	99332.102	4.5	5S (3H)2H	1276.2198	-2.772	99332.102	4.5	5S (3H)2H	92216.320	1.5	4P (3P)2D
1276.4644	-4.086	58631.531	4.5	D6S (1G)2G	1276.4644	-4.086	58631.531	4.5	D6S (1G)2G	1276.4644	-4.086	58631.531	4.5	D6S (1G)2G	96279.490	2.5	4SP(3G)2F
1277.2380	-4.190	84326.912	2.5	4D (5D)6P	1277.2380	-4.190	84326.912	2.5	4D (5D)6P	1277.2380	-4.190	84326.912	2.5	4D (5D)6P	92161.320	1.5	4P (3P)2D
1277.9808	-4.095	84870.863	2.5	4D (5D)4D	1277.9808	-4.095	84870.863	2.5	4D (5D)4D	1277.9808	-4.095	84870.863	2.5	4D (5D)4D	65696.038	4.5	4P (3G)4G
1277.9808	-4.370	84266.556	3.5	4D (5D)6P	1277.9808	-4.370	84266.556	3.5	4D (5D)6P	1277.9808	-4.370	84266.556	3.5	4D (5D)6P	38458.981	4.5	4P (3D)6D
1278.4308	-4.855	84296.830	5.5	4D (5D)6G	1278.4308	-4.855	84296.830	5.5	4D (5D)6G	1278.4308	-4.855	84296.830	5.5	4D (5D)6G	94700.660	2.5	4P (3F)2D
1278.5799	-2.722	102030.912	3.5	6S (5D)6D	1278.5799	-2.722	102030.912	3.5	6S (5D)6D	1278.5799	-2.722	102030.912	3.5	6S (5D)6D	96062.060	5.5	4SP(3G)2H
1278.7196	-4.953	78725.790	1.5	5S (5D)6D	1278.7196	-4.953	78725.790	1.5	5S (5D)6D	1278.7196	-4.953	78725.790	1.5	5S (5D)6D	87572.431	2.5	4SP(5G)6F
1279.4528	-3.905	73393.745	4.5	D5S2(7S)4G	1279.4528	-3.905	73393.745	4.5	D5S2(7S)4G	1279.4528	-3.905	73393.745	4.5	D5S2(7S)4G	107006.350	4.5	4SP(31)2H
1280.1469	-3.928	54273.641	4.5	D5S2(7S)4G	1280.1469	-3.928	54273.641	4.5	D5S2(7S)4G	1280.1469	-3.928	54273.641	4.5	D5S2(7S)4G	92018.729	2.5	4SP(5D)6F
1280.3953	-4.061	85679.698	2.5	4D (5D)6G	1280.3953	-4.061	85679.698	2.5	4D (5D)6G	1280.3953	-4.061	85679.698	2.5	4D (5D)6G	93129.900	3.5	4P (3F)4D
1281.3813	-1.740	82978.677	4.5	4D (5D)6F	1281.3813	-1.740	82978.677	4.5	4D (5D)6F	1281.3813	-1.740	82978.677	4.5	4D (5D)6F	90780.621	3.5	5P (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1307.3838	-4.470	85048.602	1.5	4D (5D)4D	92659.374	2.5	4P (3P)2D	1331.5728	-2.495	99688.337	3.5	5S (3F)4F	107196.200	2.5	180DD
1307.7395	-3.680	84685.198	3.5	4D (5D)4D	92329.890	2.5	4SP(5G)2F	1332.5539	-2.088	83136.487	3.5	4D (5D)6F	90638.822	2.5	5P (5D)4D
1307.7811	-4.398	99918.569	1.5	5S (3F)4F	92274.120	2.5	4P (3P)4F	1333.3254	-4.463	103255.694	0.5	6S (5D)4D	95767.700	0.5	4SP(5P)4D
1307.8350	-1.406	83136.487	3.5	4P (5D)6F	90780.621	3.5	5P (5D)4F	1334.0084	-3.072	99824.045	2.5	5S (3F)4F	92329.890	2.5	4SP(5G)4F
1308.3361	-3.022	83358.540	0.5	4D (5D)6F	91199.746	0.5	5P (5D)4D	1334.4670	-2.056	84424.370	1.5	4D (5D)6F	91915.950	1.5	4SP(5D)6F
1308.4200	-1.174	101698.489	4.5	6S (5D)6D	94057.773	4.5	4SP(5D)6D	1334.7160	-4.767	79439.467	3.5	5S (5D)4D	86929.649	3.5	4P (3P)4D
1308.7859	-2.858	100492.020	3.5	5S (3F)2F	108130.600	2.5	220DD	1334.7991	-2.493	91048.256	1.5	5P (5D)6F	91048.256	1.5	5P (5D)6F
1309.6651	-4.891	102334.112	2.5	6S (5D)6D	94700.660	2.5	4P (3F)2D	1335.1501	-4.166	84870.863	2.5	4D (5D)4D	92358.610	1.5	4SP(5G)4F
1310.0003	-2.961	102394.718	3.5	6S (5D)4D	94763.219	3.5	4SP(5D)6P	1335.3693	-4.348	84685.198	3.5	4D (5D)4D	92171.716	4.5	4P (3F)2G
1310.6881	-4.675	102666.694	0.5	6S (5D)6D	95039.200	1.5	4P (3P)2F	1335.7293	-4.771	105763.270	5.5	4D (3F)2H	98278.770	5.5	4P (1G)2H
1310.8504	-3.319	103983.510	3.5	5S (3G)2G	96356.960	3.5	4SP(3G)2F	1337.0221	-3.018	99688.337	3.5	5S (5D)4F	71964.710	2.5	4P (3D)4P
1310.8784	-2.829	84527.778	4.5	4D (5D)6G	92154.165	3.5	4SP(5D)6F	1337.4704	-2.610	79439.467	3.5	5S (5D)4D	71964.710	2.5	4P (3D)4P
1311.2289	-4.533	77230.900	4.5	D5S2(7S)2H	69606.552	3.5	4P (3G)2F	1337.4804	-4.090	85172.809	0.5	4D (5D)4D	92647.510	1.5	4P (3F)4D
1311.2905	-4.254	100749.810	2.5	5S (3F)2F	108373.800	3.5	260DD	1337.6950	-3.946	86599.738	2.5	4D (5D)4F	94073.240	3.5	4SP(5G)4G
1311.6518	-2.659	100749.810	2.5	5S (3F)2F	108371.700	1.5	250DD	1337.8421	-3.614	10092.020	3.5	5S (3F)2F	107964.700	4.5	210DD
1312.1140	-4.348	84710.685	3.5	4D (5D)6G	92329.890	2.5	4SP(5G)4F	1337.8874	-1.400	83308.194	2.5	4D (5D)6F	90780.621	3.5	5P (5D)4F
1312.2124	-4.870	80346.016	0.5	5S (5D)4D	87964.650	1.5	4SP(5P)6D	1339.1405	-3.449	99824.045	2.5	5S (3F)4F	92358.610	1.5	4SP(5G)4F
1313.3558	-4.449	86599.738	2.5	4D (5D)4F	94211.739	2.5	4SP(5P)4F	1339.1990	-4.730	99818.569	1.5	5S (3F)4F	92453.460	0.5	4P (3F)4F
1313.5498	-1.713	83459.670	1.5	4D (5D)6F	91070.547	2.5	5P (5D)4F	1339.2910	-3.596	73395.930	2.5	D5S2(7S)4F	65931.334	3.5	4P (3G)4G
1313.6004	-4.291	88157.116	1.5	4D (5D)4F	95767.700	0.5	4SP(5P)4D	1340.2909	-3.519	84870.863	2.5	4D (5D)4D	92329.890	2.5	4SP(5G)4F
1314.0940	-4.977	99824.045	2.5	5S (3F)4F	92216.320	1.5	4P (3P)2D	1340.4854	-4.013	80177.975	1.5	5S (5D)4D	87635.920	0.5	4SP(5P)6D
1315.6188	-3.225	85048.602	1.5	4D (5D)4D	92647.510	1.5	4P (3F)4D	1340.7550	-4.381	99573.225	4.5	5S (3F)4F	92116.780	4.5	4SP(5G)4H
1315.9038	-4.694	84685.198	3.5	4D (5D)4D	92282.460	3.5	4SP(5G)4F	1341.1227	-0.431	83713.536	3.5	4D (5D)6D	91167.937	3.5	5P (5D)6P
1315.9980	-1.539	99093.452	5.5	5S (3H)2H	106690.170	5.5	4SP(3P)2H	1341.4763	-3.779	54273.641	4.5	D5S2(7S)4G	61726.077	3.5	4P (3P)4D
1316.3058	-2.557	102334.112	2.5	6S (5D)6D	94739.170	1.5	4SP(5D)2H	1341.5722	-3.151	54870.528	2.5	D6S (3F)2F	62322.431	3.5	4P (3H)2G
1316.4068	-3.386	84424.370	1.5	4D (5D)6F	92018.729	2.5	4SP(5D)6F	1341.8357	-4.479	54275.637	2.5	D5S2(7S)4G	61726.077	3.5	4P (3P)4D
1316.6546	-3.787	83308.194	2.5	4D (5D)6F	90901.124	2.5	5P (5D)4F	1341.8785	-4.150	85679.698	2.5	4D (5D)4D	93129.900	3.5	4P (3F)4D
1316.7508	-2.430	99573.225	4.5	5S (3F)4F	107165.600	3.5	170DD	1342.6560	-4.969	102334.112	2.5	6S (5D)6D	109780.000	1.5	280DD
1317.0450	-2.647	83308.194	2.5	4D (5D)6F	90898.873	1.5	4P (3P)4F	1343.0904	-3.588	84710.685	3.5	4D (5D)6G	92154.165	3.5	4SP(5D)6F
1317.2336	-4.698	84710.685	3.5	4D (5D)6G	92300.277	4.5	4SP(5D)6F	1343.2028	-3.714	100749.810	2.5	D5S2(7S)4G	61726.077	3.5	4P (3F)4D
1317.3298	-1.867	84326.912	2.5	4D (5D)6P	91915.950	1.5	4SP(5D)6F	1343.3954	-4.482	54273.641	4.5	5S (3F)2F	108191.600	1.5	230DD
1317.3499	-3.129	84685.198	3.5	4D (5D)4D	92274.120	2.5	4P (3P)4F	1343.4345	-0.360	83726.364	4.5	4D (5D)6D	91167.937	3.5	5P (5D)6P
1317.3921	-3.613	99918.569	1.5	5S (3F)4F	92329.890	2.5	4SP(5G)4F	1343.4560	-3.050	83459.670	1.5	4D (5D)6F	90901.124	2.5	5P (5D)4F
1317.4083	-2.497	83459.670	1.5	4D (5D)6F	91048.256	1.5	5P (5D)4D	1343.8625	-3.376	83459.670	1.5	4D (5D)6F	90898.877	1.5	4P (3P)4P
1318.0179	-0.783	83990.063	1.5	4D (5D)6P	91575.139	2.5	5P (5D)6P	1344.2740	-3.679	84863.351	5.5	4D (5D)6F	92300.277	4.5	4SP(5D)6F
1320.3224	-4.928	86416.333	3.5	4D (5D)4F	93988.170	2.5	4SP(5G)4G	1344.3803	-2.538	85462.862	3.5	4D (5D)4G	92899.200	2.5	4P (3F)4D
1320.3332	-4.798	84710.685	3.5	4D (5D)6G	92282.460	3.5	4SP(5G)4F	1344.6674	-2.768	105630.750	2.5	5D (5D)4G	98196.000	1.5	4SP(5D)4F
1320.3712	-3.932	99688.337	3.5	5S (3F)4F	92116.780	4.5	4SP(5G)4H	1344.9614	-2.074	99573.225	4.5	5S (3F)4F	107006.350	4.5	4SP(31)2H
1320.4467	-4.500	86416.333	3.5	4D (5D)4F	93987.457	3.5	4SP(5D)6D	1345.6564	-4.987	84844.834	2.5	4D (5D)6G	92274.120	2.5	4P (3P)4P
1320.4870	-2.294	102334.112	2.5	6S (5D)6D	94763.219	3.5	4SP(5D)6P	1346.1880	-4.974	84424.370	1.5	4D (5D)6F	91850.722	0.5	4SP(5D)6F
1321.7552	-1.554	84863.351	5.5	4D (5D)4G	92426.980	4.5	4SP(5G)4F	1346.5646	-4.049	80177.975	1.5	5S (5D)4D	90397.868	3.5	5P (5D)4D
1321.7891	-3.924	84710.685	3.5	4D (5D)6G	92274.120	2.5	4P (3P)4F	1347.4874	-1.733	82978.677	4.5	4D (5D)6F	90397.868	3.5	5P (5D)4D
1322.1305	-4.020	84527.778	4.5	4D (5D)6G	92089.260	3.5	4SP(5G)4H	1347.5039	-0.663	84424.370	1.5	4D (5D)6P	91843.470	1.5	5P (5D)6P
1322.3968	-3.137	99918.569	1.5	5S (3F)4F	92358.610	1.5	4SP(5G)4F	1347.6658	-3.877	54904.222	3.5	D6S (3F)2F	62322.431	3.5	4P (3H)2G
1322.5522	-3.728	73637.340	1.5	D5S2(7S)2H	66078.269	2.5	4P (3G)4G	1347.7094	-2.229	85184.734	4.5	4D (5D)4F	92602.703	5.5	4P (3F)2G
1323.7723	-4.198	80346.016	0.5	5S (5D)4D	87898.120	0.5	4SP(5G)6F	1348.3134	-3.688	86416.333	3.5	4D (5D)4F	93830.979	2.5	4SP(5D)6D
1324.1449	-4.070	101698.489	4.5	6S (5D)6D	94148.510	4.5	4SP(5G)4G	1348.3914	-3.940	99688.337	3.5	5S (1G)2F	92274.120	2.5	4P (3G)4P
1324.1543	-3.912	99824.045	2.5	5S (3F)4F	92274.120	2.5	4P (3P)4F	1348.7927	-4.783	58666.258	3.5	D6S (3F)4G	66078.269	2.5	4P (3G)4P
1324.6941	-1.983	103608.909	4.5	5S (3G)2G	96062.060	5.5	4SP(3G)2H	1348.8680	-3.051	84870.863	2.5	4D (5D)4D	92282.460	3.5	4SP(5G)4F
1325.6187	-3.440	99824.045	2.5	5S (3F)4F	92282.460	3.5	4SP(5G)4F	1349.5501	-1.127	82978.677	4.5	4D (5D)6F	90386.528	4.5	5P (5D)4F
1326.1823	-4.106	103600.440	6.5	4D (3H)4H	96062.060	5.5	4SP(3G)2H	1349.5878	-4.596	103265.694	0.5	6S (5D)4D	95858.050	1.5	4SP(5P)4D
1327.1523	-1.403	82853.658	5.5	4D (5D)6F	90386.528	4.5	5P (5D)4F	1349.7735	-4.382	99573.225	4.5	5S (3F)4F	92166.600	5.5	4SP(5G)4H
1327.4646	-4.797	99332.102	4.5	5S (3H)2H	106863.200	3.5	160DD	1349.9098	-2.856	99688.337	3.5	5S (3F)4F	92282.460	3.5	4SP(5G)4F
1330.0324	-0.578	84326.912	2.5	4D (5D)6P	91843.470	1.5	5P (5D)6P	1350.0956	-3.077	85048.602	1.5	4D (5D)4D	92453.460	0.5	4P (3F)4D
1330.1790	-4.260	105711.730	2.5	4D (5D)6G	98196.000	1.5	4SP(5D)4F	1350.2710	-4.682	85495.304	2.5	4D (5D)6S	92899.200	2.5	4P (3F)4P
1330.2586	-4.973	84938.180	1.5	4D (5D)6G	92453.460	0.5	4P (3F)4D	1350.3876	-2.847	84870.863	2.5	4D (5D)4D	92274.120	2.5	4P (3P)4P
1330.5249	-4.428	84844.834	2.5	4D (5D)6G	92358.610	1.5	4SP(5G)4F	1350.7065	-4.270	99573.225	4.5	5S (3F)4F	92171.716	4.5	4P (3F)2G
1331.4405	-4.358	101698.489	4.5	6S (5D)6D	94189.880	5.5	4SP(5G)4G	1351.6082	-3.148	83812.316	2.5	4D (5D)6D	91208.887	1.5	5P (5D)4F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1351.9722	-3.699	100492.020	3.5	5S (3F)2F	107886.600	3.5	200DD	1376.7766	-3.313	99688.337	3.5	5S (3F)4F	92426.980	4.5	4SP(5C)4F
1353.0517	-4.879	73637.340	1.5	D582(7S)4F	66248.660	0.5	4P (3P)2S	1376.9676	-4.287	103118.400	1.5	6S (5D)4D	95858.090	1.5	4SP(5P)4D
1354.4605	-3.216	73393.745	4.5	D582(7S)4F	66012.316	4.5	4P (3C)4F	1377.3696	-2.075	83812.316	2.5	4D (5D)6D	91070.547	2.5	5P (5D)4F
1354.4981	-3.953	100749.810	2.5	5S (3F)2F	108130.600	2.5	220DD	1377.7487	-4.745	80346.016	0.5	5S (5D)4D	87602.250	1.5	4SP(5G)6F
1354.5139	-4.714	84844.834	2.5	4D (5D)6F	92225.538	1.5	5P (5D)4P	1377.9693	-3.674	54870.528	2.5	D6S (3F)2F	62125.600	1.5	4P (3F)2D
1354.6780	-3.212	83459.670	1.5	4D (5D)6F	90839.480	0.5	4P (3P)4P	1378.1942	-4.032	54904.222	3.5	D6S (3F)2F	62158.110	4.5	4P (3F)4F
1354.9048	-4.779	84710.685	3.5	4D (5D)6G	92089.260	3.5	4SP(5G)4H	1378.2815	-4.076	84863.351	5.5	4D (5D)4G	92116.780	4.5	4SP(5G)4H
1354.9276	-4.702	84938.180	1.5	4D (5D)6G	92314.758	0.5	5P (5D)4P	1378.5627	-2.322	103608.909	4.5	5S (3G)2G	96356.960	3.5	4SP(3G)2F
1356.0847	-4.829	99824.045	2.5	5S (3F)4F	107196.200	2.5	180DD	1379.2755	-1.330	83136.487	3.5	4D (5D)6F	90386.528	4.5	5P (5D)4F
1356.5348	-4.370	103608.909	4.5	5S (3G)2G	96239.200	4.5	4SP(3G)2H	1380.4097	-2.1598	85432.912	2.5	4D (5D)4G	91575.139	2.5	5P (5D)6P
1357.7064	-3.303	86124.301	4.5	4D (5D)4F	93487.650	3.5	4P (3F)4F	1380.4706	-2.446	85184.734	4.5	4D (5D)4G	92426.980	4.5	4SP(5G)4F
1357.9331	-4.155	100492.020	3.5	5S (3F)2F	93129.900	3.5	4P (3F)4D	1380.7231	-4.174	86599.738	2.5	4D (5D)4F	93840.340	1.5	4SP(5D)6D
1358.1532	-3.339	79885.493	2.5	5S (5D)4D	72524.566	1.5	4P (3D)4D	1381.6127	-2.860	83812.316	2.5	4D (5D)6D	91048.256	1.5	5P (5D)4D
1358.2728	-2.416	86124.301	4.5	4D (5D)4F	93484.580	4.5	4P (3F)4F	1381.8381	-4.517	105589.420	3.5	4D (3F)4H	98354.660	2.5	4SP(5D)4F
1358.6109	-3.397	99688.337	3.5	5S (3F)4F	92329.890	2.5	4SP(5G)4F	1382.0564	-4.675	79885.493	2.5	5S (5D)4D	72651.876	3.5	4P (3D)4D
1358.6809	-1.669	99332.102	4.5	5S (3H)2H	106690.170	5.5	4SP(3I)2H	1382.1699	-1.375	82978.677	4.5	4D (5D)6F	90211.700	5.5	4P (3F)4G
1358.6857	-0.691	82853.658	5.5	4D (5D)6F	90211.700	5.5	4P (3F)4G	1382.2676	-2.686	85462.862	3.5	4D (5D)4G	92695.374	2.5	4P (3F)2D
1358.8761	-2.487	83713.536	3.5	4D (5D)6D	911070.547	2.5	5P (5D)4F	1382.5105	-4.043	86599.738	2.5	4D (5D)4F	93880.979	2.5	4SP(5D)6D
1359.1329	-0.783	83812.316	2.5	4D (5D)6D	91167.937	3.5	5P (5D)6P	1382.8599	-2.834	54283.220	3.5	D582(7S)4G	61512.634	4.5	4P (3H)4I
1359.3077	-2.304	84870.863	2.5	4D (5D)4D	92225.538	1.5	5P (5D)4P	1383.6055	-3.018	85048.602	1.5	4D (5D)4D	92274.120	2.5	4P (3P)4P
1359.3493	-4.116	100749.810	2.5	5S (3F)2F	93395.360	2.5	4P (3F)4F	1383.6055	-3.840	54902.315	1.5	D6S (3F)2P	62125.600	1.5	4P (3F)2D
1359.9275	-1.232	83136.487	3.5	4D (5D)6F	90487.810	2.5	5P (5D)6F	1384.0505	-4.299	99918.569	1.5	5S (3F)4F	92695.374	2.5	4P (3F)2D
1360.9459	-2.423	102030.912	3.5	6S (5D)6D	94685.090	2.5	4SP(5D)6P	1384.4057	-3.778	99824.045	2.5	5S (3F)4F	92602.703	3.5	4P (3F)2G
1361.0135	-3.660	84870.863	2.5	4D (5D)4D	92216.320	1.5	4P (3P)2D	1384.7585	-3.187	85679.698	2.5	4D (5D)4G	92899.200	2.5	4P (3F)4D
1361.7369	-3.319	99824.045	2.5	5S (3F)4F	107165.600	3.5	170DD	1384.8886	-2.614	83990.063	1.5	4D (5D)6D	91208.887	1.5	5P (5D)4F
1361.9636	-4.732	83558.540	0.5	4D (5D)6F	90598.873	1.5	4P (3P)4P	1385.0121	-3.636	105414.180	2.5	4D (3F)4G	98196.000	1.5	4SP(5D)4F
1363.2269	-3.937	84685.198	3.5	4D (5D)4F	92018.729	2.5	4SP(5D)6F	1385.8744	-1.449	82853.658	5.5	4D (5D)6F	90067.347	4.5	5P (5D)6F
1364.2353	-4.963	79439.467	3.5	5S (5D)4D	90638.822	2.5	5P (5D)4D	1386.1605	-4.077	105063.550	5.5	4D (3F)4G	97851.350	4.5	4P (1G)2H
1365.3834	-1.326	82978.677	4.5	4D (5D)6F	86767.577	2.5	4P (3P)4D	1386.6444	-3.750	83990.063	1.5	4D (5D)6D	91199.746	0.5	5P (5D)4D
1365.6459	-4.698	86710.837	1.5	4D (5D)4F	90300.625	3.5	5P (5D)6F	1387.2319	-4.852	105711.730	2.5	5D (5D)6S	98505.100	2.5	4SP(5D)4D
1366.1176	-2.462	99688.337	3.5	5S (3F)4F	94031.378	0.5	4SP(5D)6D	1389.4755	-3.814	54870.528	2.5	D6S (3F)2F	62065.521	3.5	4P (3F)4F
1366.6657	-4.466	102394.718	3.5	6S (5D)4D	95079.350	4.5	4SP(3I)2H	1390.6104	-4.088	82853.658	5.5	4D (5D)6F	90042.779	4.5	4P (3F)4G
1366.9470	-2.594	54273.641	4.5	D582(7S)4G	61587.214	5.5	4P (3H)4I	1390.9070	-2.451	83713.536	3.5	4D (5D)6D	90901.124	2.5	5P (5D)4P
1367.6136	-4.957	85048.602	1.5	4D (5D)4D	92358.610	1.5	4SP(5G)4F	1391.2529	-3.329	85172.809	0.5	4D (5D)4D	92358.610	1.5	4SP(5G)4F
1367.7403	-0.785	84844.834	2.5	4D (5D)6G	92154.165	3.5	4SP(5D)6F	1392.4515	-1.294	83308.194	2.5	4D (5D)6F	90487.810	2.5	5P (5D)6F
1367.8803	-0.330	84266.556	3.5	4D (5D)6P	91575.139	2.5	5P (5D)6P	1392.5415	-1.851	83459.670	1.5	4D (5D)6F	90638.822	2.5	5P (5D)4D
1367.9211	-3.064	84863.351	5.5	4D (5D)4G	92171.716	4.5	4P (3F)2G	1392.5931	-3.025	54904.222	3.5	D6S (3F)2F	62083.108	4.5	4P (3H)2G
1367.9812	-3.248	84710.685	3.5	4D (5D)6G	92018.729	2.5	4SP(5D)6F	1392.9714	-2.409	85048.602	1.5	4D (5D)4D	92225.538	1.5	5P (5D)4P
1370.3481	-2.528	54232.195	5.5	D582(7S)4G	61527.616	6.5	4P (3H)4I	1393.0493	-4.917	99824.045	2.5	5S (3F)4F	92647.510	1.5	4P (3F)4D
1370.4437	-4.810	102334.112	2.5	6S (5D)6D	95039.200	1.5	4P (3P)2P	1393.3739	-3.568	99688.337	3.5	5S (3F)4F	106863.200	3.5	160DD
1371.2233	-3.554	99573.225	4.5	5S (3F)4F	92282.460	3.5	4SP(5G)4F	1393.5619	-3.894	84844.834	2.5	4D (5D)6G	92018.729	2.5	4SP(5D)6F
1371.3852	-4.529	80346.016	0.5	5S (5D)4D	87635.920	0.5	4SP(5P)6D	1394.2423	-3.818	85728.806	1.5	4D (5D)4G	92899.200	2.5	4P (3F)4D
1372.2513	-1.220	83308.194	2.5	4D (5D)6F	90593.497	1.5	5P (5D)6F	1394.2738	-4.266	83459.670	1.5	4D (5D)6F	90629.902	1.5	4P (3P)4S
1373.0080	-3.577	85048.602	1.5	4D (5D)4D	92329.890	2.5	4SP(5G)4F	1394.9765	-3.703	105763.270	5.5	4S (3H)2H	98596.600	4.5	4SP(5D)4F
1373.0561	-4.488	54870.528	2.5	D6S (3F)2F	62151.561	2.5	4P (3F)4F	1395.1942	-4.388	99332.102	4.5	5S (3F)2H	92166.600	5.5	4SP(5G)4H
1373.0736	-3.456	83558.540	0.5	4D (5D)6F	90839.480	0.5	4P (3P)4F	1395.4598	-1.327	83136.487	3.5	4D (5D)6F	90300.625	3.5	5P (5D)6F
1373.1281	-3.304	85172.809	0.5	4D (5D)4D	92453.460	0.5	4P (3F)4D	1396.0130	-3.718	54904.222	3.5	D6S (3F)2F	62065.521	3.5	4P (3F)4F
1373.1681	-4.505	54232.195	5.5	D582(7S)4G	61512.634	4.5	4P (3H)4I	1396.1910	-4.607	99332.102	4.5	5S (3H)2H	92171.716	4.5	4P (3F)2G
1373.6679	-4.018	99918.569	1.5	5S (3F)4F	107196.200	2.5	180DD	1398.0688	-0.821	84424.370	1.5	4D (5D)6P	91575.139	2.5	5P (5D)6P
1373.7542	-4.072	86710.837	1.5	4D (5D)4F	93988.170	2.5	4SP(5G)4G	1398.6366	-4.271	84870.863	2.5	4D (5D)4D	92018.729	2.5	4SP(5D)6F
1373.9889	-3.715	105630.750	2.5	5D (5D)4G	98354.660	2.5	4SP(5D)4F	1398.9538	-2.567	99573.225	4.5	5S (3F)4D	92426.980	4.5	4SP(5G)4F
1374.5824	-4.674	99573.225	4.5	5S (3F)4F	92300.277	4.5	4SP(5D)6F	1399.7953	-1.369	85172.809	0.5	5D (5D)4D	92314.758	0.5	5P (5D)4P
1374.9396	-3.585	99918.569	1.5	5S (3F)4F	92647.510	1.5	4P (3F)4D	1399.9416	-2.911	81639.260	2.5	D582(7S)2F	74498.037	1.5	4P (3D)2D
1375.5763	-2.290	102030.912	3.5	6S (5D)6D	94763.219	3.5	4SP(5D)6P	1400.2086	-2.921	85462.862	3.5	4D (5D)4G	92602.703	3.5	4P (3F)2G
1375.8673	-1.207	85048.602	1.5	4D (5D)4D	92314.758	0.5	5P (5D)4P	1400.8072	-4.170	100749.810	2.5	5S (3F)2F	107886.600	3.5	200DD
1376.7721	-1.253	83136.487	3.5	4D (5D)6F	90397.768	3.5	5P (5D)4D	1401.3890	-1.396	83459.670	1.5	4D (5D)6F	90593.497	1.5	5P (5D)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
1402.2390	-4.448	86710.837	1.5	4D (5D)4F	93840.340	1.5	4SP(5D)6D	1430.5085	-4.076	105524.461	4.5	4D (3F)4H
1402.4026	-3.795	99824.045	2.5	5S (3F)4F	92695.374	2.5	4P (3P)2D	1430.8420	3.926	85184.734	4.5	4D (5D)4G
1402.5525	-2.746	81734.750	3.5	D5S2(7S)2F	74606.841	2.5	4P (3D)2D	1432.4729	-2.610	86416.333	3.5	4D (5D)4F
1402.9972	-3.666	105630.750	2.5	5D (5D)4G	98505.100	2.5	4SP(5D)4D	1432.7310	-4.781	84938.180	1.5	4D (5D)6G
1403.5763	-3.715	103118.400	1.5	6S (5D)4D	95995.690	2.5	4SP(5P)4F	1432.7478	-3.811	102802.312	2.5	6S (5D)6D
1404.7133	-2.586	99573.225	4.5	5S (3F)4F	106690.170	5.5	4SP(3I)2H	1433.7919	-1.994	84870.863	2.5	4D (5D)4D
1404.9900	-4.554	85184.734	4.5	4D (5D)4G	92030.277	4.5	4SP(5D)6F	1434.4220	-4.095	99573.225	3.5	5S (3F)4G
1405.0901	-4.466	73637.340	1.5	D5S2(7S)4F	66522.304	2.5	4P (3G)4F	1434.4453	-3.872	85184.734	4.5	4D (5D)4G
1405.1107	-3.535	73492.215	3.5	D5S2(7S)4F	66377.283	3.5	4P (3G)4F	1434.6771	-3.168	83812.316	2.5	4D (5D)6D
1408.5169	-1.851	85184.734	4.5	4D (5D)4G	92282.460	3.5	4SP(5G)4F	1434.7786	-2.714	85679.698	2.5	4D (5D)4G
1408.7285	-4.894	100492.020	3.5	5S (3F)2F	93395.360	2.5	4P (3F)4F	1435.0348	-4.561	85728.806	1.5	4D (5D)4S
1409.0779	-4.677	105630.750	2.5	5D (5D)4G	98535.850	3.5	4SP(5D)4F	1435.5396	-4.047	85462.862	3.5	4D (5D)4G
1409.0819	-3.328	105449.540	3.5	5D (5D)4G	98354.660	2.5	4SP(5D)4F	1438.7642	-3.065	58631.531	4.5	D6S (1G)2G
1410.1160	-1.355	83558.540	0.5	4D (5D)6F	90648.217	0.5	5P (5D)6F	1439.3881	-0.877	82978.677	4.5	4D (5D)6F
1410.1166	-1.223	83308.194	2.5	4D (5D)6F	90397.868	3.5	5P (5D)4F	1439.6074	-2.778	103449.540	3.5	5D (5D)4D
1410.1218	-2.821	99093.452	5.5	5S (3H)2H	106183.100	6.5	4SP(3I)2K	1439.6443	-4.291	102802.312	2.5	6S (5D)4D
1410.2889	-2.637	83812.316	2.5	4D (5D)6F	90901.124	2.5	5P (5D)4F	1441.2865	-3.789	102921.010	3.5	4D (3F)4G
1410.3163	-0.610	82978.677	4.5	4D (5D)6F	90067.347	4.5	5P (5D)6F	1441.5109	-2.799	101698.489	4.5	6S (5D)6D
1410.5605	-4.868	79439.467	3.5	5S (5D)4D	72352.024	3.5	4P (3D)4F	1442.1728	-4.519	57493.321	1.5	D5S2(7S)4P
1410.7368	-3.204	83812.316	2.5	4D (5D)6D	90898.873	1.5	4P (3F)4G	1442.4281	-0.877	83136.487	3.5	4D (5D)6F
1410.9206	-3.318	99688.337	3.5	5S (3F)4F	92602.703	3.5	4P (3F)2G	1443.2627	-4.637	90093.452	5.5	5S (3H)2H
1411.1823	-4.407	105589.420	3.5	4D (3F)4H	98505.100	2.5	4SP(5D)4D	1443.5891	-2.732	83713.536	3.5	4D (5D)6D
1411.9468	-3.273	83990.063	1.5	4D (5D)6D	91070.547	2.5	5P (5D)4F	1443.6810	-3.417	99824.045	2.5	5S (3F)4F
1412.5773	-3.864	84131.563	0.5	4D (5D)6F	91208.887	1.5	5P (5D)4F	1443.7010	-4.218	58631.531	4.5	D6S (1G)2G
1413.7682	-3.759	83558.540	0.5	4D (5D)6F	90629.902	1.5	4P (3F)4F	1444.0647	-4.432	85679.698	2.5	4D (5D)4D
1413.7772	-2.602	86416.333	3.5	4D (5D)4F	93487.650	3.5	4P (3F)4F	1444.3295	-4.561	90093.452	5.5	5S (3H)2H
1413.8174	-4.075	84844.834	2.5	4D (5D)6G	91915.950	1.5	4SP(5D)6F	1444.49624	-4.307	85728.806	1.5	4D (5D)4D
1413.9372	-0.193	82853.658	5.5	4D (5D)6F	89924.175	5.5	5P (5D)6F	1445.5826	-4.289	84131.563	0.5	4D (5D)6D
1414.3913	-3.675	86416.333	3.5	4D (5D)4F	93484.580	4.5	4P (3F)4F	1445.4655	-3.345	77230.900	4.5	D5S2(7S)2H
1414.6239	-1.383	82713.536	3.5	4D (5D)6D	90780.621	3.5	5P (5D)4F	1446.0104	-3.252	103449.540	3.5	5D (5D)4G
1415.2212	-3.762	83990.063	1.5	4D (5D)6F	90042.779	4.5	4P (3F)4G	1446.2505	-4.567	84938.180	1.5	4D (5D)6G
1416.4060	-3.087	82978.677	4.5	4D (5D)6D	91048.256	1.5	5P (5D)4D	1446.4275	-4.917	82978.677	4.5	4D (5D)6F
1417.1963	-2.060	83726.364	4.5	4D (5D)6D	90780.621	3.5	5P (5D)4F	1446.5604	-2.720	83990.063	1.5	4D (5D)6D
1417.3340	-4.648	87985.628	2.5	4D (5D)4F	90339.200	1.5	4P (3P)2P	1446.9752	-4.611	103449.540	1.5	4D (3F)4G
1417.5034	-3.021	85172.809	0.5	4D (5D)4D	92225.538	1.5	5P (5D)4F	1447.0317	-4.757	83990.063	1.5	4D (5D)6D
1418.1241	-3.791	99332.102	4.5	5S (3H)2H	92282.460	3.5	4SP(5G)4F	1447.5593	-3.979	83136.487	3.5	4D (5D)6F
1419.0410	-4.058	84870.863	2.5	4D (5D)4D	91175.950	1.5	4SP(5D)6F	1447.6794	-4.141	84938.180	1.5	4D (5D)6G
1419.3585	-4.239	85172.809	0.5	4D (5D)4D	92216.320	1.5	4P (3P)2D	1447.8046	-3.017	99332.102	4.5	5S (3H)2H
1420.2368	-3.387	99824.045	2.5	5S (3F)4F	106863.200	3.5	160DD	1447.9296	-4.722	85184.734	4.5	4D (5D)4G
1421.0843	-1.175	83558.540	0.5	4D (5D)6F	90593.497	1.5	5P (5D)6F	1448.5894	-0.742	84266.556	3.5	4D (5D)6F
1421.2191	-4.440	105230.290	0.5	5D (5D)4D	98196.000	1.5	4SP(5D)4F	1448.9965	-4.338	103291.010	3.5	4D (3F)4G
1421.5972	-3.686	81639.260	2.5	D5S2(7S)2F	74606.841	2.5	4P (3D)2D	1449.4906	-4.877	102666.694	0.5	6S (5D)6D
1422.1309	-4.439	58666.258	3.5	D6S (1G)2G	65696.038	4.5	4P (3G)4G	1450.5590	-4.302	105230.290	0.5	5D (5D)4D
1422.4627	-1.040	83459.670	1.5	4D (5D)6F	90487.810	2.5	5P (5D)6F	1450.9776	-2.751	58666.258	3.5	D6S (1G)2G
1423.1625	-4.199	73637.340	1.5	D5S2(7S)4F	66612.656	1.5	4P (3G)4F	1450.9946	-1.216	84685.198	3.5	4D (5D)4D
1424.2401	-4.030	99918.569	1.5	5S (3F)4F	92899.200	2.5	4P (3F)4D	1451.0968	-3.706	60384.370	0.5	D5S2(7S)4D
1424.3867	-4.217	73395.930	2.5	D5S2(7S)4F	66377.283	3.5	4P (3G)4F	1451.4421	-3.503	86599.738	2.5	4D (5D)4F
1424.8302	-4.192	73393.745	4.5	D5S2(7S)4F	66377.283	3.5	4P (3G)4F	1452.6512	-4.702	88157.116	1.5	4D (5D)4F
1424.9899	-3.401	85679.698	2.5	4D (5D)4G	92695.374	2.5	4P (3P)2D	1452.6512	-4.926	79885.493	2.5	5S (5D)4D
1425.2607	-4.692	57411.065	2.5	D5S2(7S)4F	64425.408	2.5	4P (3F)2F	1452.6742	-3.895	84326.912	2.5	4D (5D)6F
1426.1280	-4.898	105288.847	6.5	4D (3F)4H	98278.770	5.5	4P (1G)2H	1452.8382	-2.592	54275.637	2.5	D5S2(7S)4G
1426.1864	-4.779	105205.790	2.5	5D (5D)6G	98196.000	1.5	4SP(5D)4F	1453.4440	-4.638	103449.540	3.5	4D (3F)4G
1427.0396	-2.211	86124.301	4.5	4D (5D)4F	93129.900	3.5	4P (3F)4D	1454.0888	-3.778	57411.065	2.5	D5S2(7S)4P
1427.2900	-4.132	100492.020	3.5	5S (3F)2F	93487.650	3.5	4P (3F)4F	1454.4438	-3.737	73395.930	2.5	D5S2(7S)4F
1428.4594	-3.561	84844.834	2.5	4D (5D)6G	91843.470	1.5	5P (5D)6P	1454.4410	-4.967	54283.920	3.5	D5S2(7S)4F
1429.6182	-3.996	99688.337	3.5	5S (3F)4F	92695.374	2.5	4P (3P)2D	1455.7683	-3.649	85048.602	1.5	4D (5D)4D
1429.7270	-1.221	83308.194	2.5	4D (5D)6F	90300.625	3.5	5P (5D)6F	1455.8361	-1.949	85462.862	3.5	4D (5D)4G
1430.4565	-4.675	80177.975	1.5	5S (5D)4D	73189.110	1.5	4P (3D)2P	1456.3820	-3.115	84710.685	3.5	4D (5D)6G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1457.1980	-3.954	105630.750	2.5	5D (5D)4G	98770.140	1.5	4SP(5D)4D	1490.7447	-2.669	54283.220	3.5	D5S2(7S)4G	60989.444	4.5	4P (3H)4H
1458.2738	-4.978	54870.528	2.5	D6S (3F)2F	61726.077	3.5	4P (3F)4D	1491.1778	-2.383	84870.863	2.5	4D (5D)4D	91575.139	2.5	5P (5D)6P
1458.8396	-4.924	105449.540	3.5	5D (5D)4G	98596.650	4.5	4SP(5D)4F	1492.2494	-3.062	79885.628	2.5	4D (5D)4F	94685.090	2.5	4SP(5D)6P
1459.4189	-4.727	88189.030	0.5	4D (5D)4P	90839.200	1.5	4P (3P)2P	1492.9355	-4.867	79885.493	2.5	5S (5D)4D	73189.110	1.5	4P (3D)2P
1459.5793	-4.996	83990.063	1.5	4D (5D)6D	95039.480	0.5	4P (3F)4P	1493.3866	-4.246	105291.010	3.5	4D (3F)4D	98596.650	4.5	4SP(5D)4F
1460.8964	-4.362	99093.452	5.5	5S (3H)2H	92250.210	6.5	4SP(5G)4H	1493.4346	-3.538	99824.043	2.5	5S (3F)4F	93129.900	3.5	4P (3F)4D
1461.3698	-0.697	84326.912	2.5	4D (5D)6P	91167.937	3.5	5P (5D)6P	1493.9780	-3.263	88189.100	0.5	4D (5D)4F	94880.740	0.5	4SP(5P)4P
1462.7466	-4.485	85495.304	2.5	4D (5D)6F	92329.890	2.5	4SP(5G)4F	1494.0689	-4.490	85462.862	3.5	4D (5D)4G	92154.165	3.5	4SP(5D)6F
1463.1305	-4.181	60441.033	1.5	D5S2(7S)4D	67273.826	1.5	4P (3F)2D	1495.0869	-3.123	102584.963	5.5	5S (3G)4G	109271.710	5.5	4SP(3I)2I
1464.4780	-1.913	83812.316	2.5	4D (5D)6P	90638.822	2.5	5P (5D)4D	1495.1043	-2.337	98130.131	6.5	5S (3H)4H	104816.800	5.5	4SP(3I)4H
1465.4764	-4.635	54904.222	3.5	D6S (3F)2F	61726.077	3.5	4P (3F)4D	1495.5843	-3.232	86710.834	1.5	4D (5D)4F	93395.360	2.5	4P (3F)4F
1465.8800	-3.710	79439.467	3.5	5S (5D)4D	72619.490	2.5	4P (3D)4D	1495.6271	-1.356	83713.536	3.5	4D (5D)6D	90397.868	3.5	5P (5D)4D
1465.9159	-2.507	105211.140	4.5	5D (5D)4G	98591.330	3.5	4SP(5D)4F	1495.8938	-4.052	54273.641	4.5	D5S2(7S)4G	60956.781	3.5	4P (3H)4G
1465.9614	-2.547	85462.862	3.5	4D (5D)4G	92282.460	3.5	4SP(5G)4F	1496.3407	-4.177	54275.637	2.5	D5S2(7S)4G	60956.781	3.5	4P (3H)4G
1466.3532	-4.840	54275.637	2.5	D5S2(7S)4G	61093.413	2.5	4P (3P)2D	1496.8408	-1.993	85679.698	2.5	4D (5D)4G	92358.610	1.5	4SP(5G)4F
1466.3941	-4.208	83812.316	2.5	4D (5D)6D	90629.902	1.5	4P (3F)4S	1497.0647	-4.186	95172.809	0.5	4D (5D)4D	91850.722	0.5	4SP(5D)6F
1467.7564	-2.701	85462.862	3.5	4D (5D)4G	92274.120	2.5	4P (3F)4F	1497.3658	-4.708	100749.810	2.5	5S (3F)2F	94073.240	3.5	4SP(5G)4G
1468.3199	-3.994	102666.694	0.5	6S (5D)6D	95858.050	1.5	4SP(5P)4D	1497.4145	-4.787	57411.065	2.5	D5S2(7S)4P	64087.418	2.5	4P (3F)4G
1469.3241	-1.650	84266.556	3.5	4D (5D)6P	91070.547	2.5	5P (5D)4F	1497.6072	-1.231	83812.316	2.5	4D (5D)6D	90487.810	2.5	5P (5D)6F
1469.7105	-4.227	105398.852	5.5	4D (3F)4H	98596.650	4.5	4SP(5D)4F	1497.6530	-2.725	105211.140	4.5	5D (5D)4G	98535.850	3.5	4SP(5D)4F
1469.7282	-4.055	85048.602	1.5	4D (5D)4D	91850.722	0.5	4SP(5D)6F	1497.8751	-4.769	105065.630	3.5	5D (5D)6G	98391.330	3.5	4SP(5D)4D
1471.1336	-2.474	86599.738	2.5	4D (5D)4F	93395.360	2.5	4P (3F)4F	1498.0367	-4.778	100492.020	3.5	5S (3F)2F	107165.600	3.5	1700DD
1471.2968	-2.626	85048.602	1.5	4D (5D)4D	91843.470	1.5	5P (5D)6P	1498.0410	-3.609	54283.220	3.5	D5S2(7S)4G	60956.781	3.5	4P (3H)4G
1472.4622	-4.412	105127.770	2.5	5D (5D)4D	98338.280	1.5	4SP(5P)4S	1498.1687	-2.855	83713.536	3.5	4D (5D)6D	90386.528	4.5	5P (5D)4G
1472.5388	-4.479	99688.337	3.5	5S (3F)4F	92899.200	2.5	4P (3F)4D	1498.5029	-2.876	83726.364	4.5	4D (5D)6D	90397.868	3.5	5P (5D)4D
1472.6099	-4.441	79439.467	3.5	5S (5D)4D	72650.658	4.5	4P (3D)4F	1498.6922	-3.571	85172.809	0.5	4D (5D)4D	91843.470	1.5	5P (5D)6P
1473.2391	-3.843	105291.010	3.5	4D (3F)4G	98505.100	2.5	4SP(5D)4F	1499.6340	-4.235	99093.452	5.5	5S (3H)2H	92426.980	4.5	4SP(5G)4F
1473.5415	-2.898	84424.370	1.5	4D (5D)6P	91208.887	1.5	5P (5D)4F	1501.0543	-1.101	83726.364	4.5	4D (5D)6D	90386.528	4.5	5P (5D)4F
1473.8116	-3.987	73395.930	2.5	D5S2(7S)4F	66612.656	1.5	4P (3G)4F	1501.3480	-3.935	85495.304	2.5	4D (5D)6S	92154.165	3.5	4SP(5D)6F
1474.2665	-1.526	83812.316	2.5	4D (5D)6D	90593.497	1.5	5P (5D)6F	1501.4337	-4.946	79885.493	2.5	5S (5D)4D	86543.974	1.5	4P (3P)4D
1474.5104	-3.556	102842.119	4.5	5S (3G)4G	90662.060	5.5	4SP(3G)2D	1501.5075	-1.761	83990.063	1.5	4D (5D)6D	90648.217	0.5	4P (3F)2D
1474.7808	-4.033	85495.304	2.5	4D (5D)6S	92274.120	2.5	4P (3F)4P	1503.3052	-2.672	85679.698	2.5	4D (5D)4G	92329.890	2.5	4SP(5G)4F
1475.4050	-4.873	87985.628	2.5	4D (5D)4P	94763.219	3.5	4SP(5D)6P	1503.6292	-4.576	83990.063	1.5	4D (5D)6D	90638.822	2.5	5P (5D)4D
1475.5296	-4.456	84424.370	1.5	4D (5D)6P	91199.746	0.5	5P (5D)4D	1504.2133	-3.161	84424.370	1.5	4D (5D)6P	91070.547	2.5	5P (5D)4F
1475.7696	-1.519	83713.536	3.5	4D (5D)6D	90487.810	2.5	5P (5D)6F	1504.8423	-2.320	98294.401	5.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H
1476.0232	-3.014	105127.770	2.5	5D (5D)4D	98354.660	2.5	4SP(5D)4F	1505.5483	-4.294	77230.900	4.5	D5S2(7S)2H	83871.184	4.5	4P (1F)2G
1477.2883	-3.119	84131.563	0.5	4D (5D)6D	90898.873	1.5	4P (3F)4P	1505.5766	-2.811	84502.778	4.5	4D (5D)6G	91167.937	3.5	5P (5D)6P
1477.5501	-3.818	54275.637	2.5	D5S2(7S)4G	61041.748	2.5	4P (3H)4P	1505.6492	-3.049	83990.063	1.5	4D (5D)6D	90629.902	1.5	4P (3P)4S
1478.0636	-4.526	105155.090	4.5	4D (3F)4G	98391.330	3.5	4SP(5D)4D	1506.0685	-1.814	105291.010	3.5	4D (3F)4G	111929.000	2.5	2900DD
1478.5271	-4.074	100749.810	2.5	5S (3F)2F	93988.170	2.5	4SP(5G)4G	1506.3334	-4.445	73637.340	1.5	D5S2(7S)4F	67000.517	2.5	4P (3F)2D
1479.2079	-4.417	54283.220	3.5	D5S2(7S)4G	61041.748	2.5	4P (3H)4G	1507.9243	-4.051	57411.065	2.5	D5S2(7S)4P	64040.886	3.5	4P (3F)4G
1480.2999	-2.721	87985.628	2.5	4D (5D)4P	94739.170	1.5	4SP(5P)4F	1507.9281	-4.538	85728.806	1.5	4D (5D)4S	92358.610	1.5	4SP(5P)4F
1482.4746	-4.907	84326.912	2.5	4D (5D)6P	91070.547	2.5	5P (5D)4F	1509.0901	-4.496	102842.119	4.5	5S (3G)4G	96217.420	3.5	4SP(5P)4D
1482.5832	-4.545	85172.809	0.5	4D (5D)4D	91915.950	1.5	4SP(5D)6F	1509.2754	-3.226	84424.370	1.5	4D (5D)6P	91048.256	1.5	5P (5D)4D
1484.0580	-3.037	105127.770	2.5	5D (5D)4D	98391.330	3.5	4SP(5D)4D	1509.5525	-3.038	105127.770	2.5	5D (5D)4D	98503.100	2.5	4SP(5D)4D
1485.4265	-3.378	85495.304	2.5	4D (5D)6S	93363.595	5.5	4P (3H)2H	1510.3347	-3.253	105155.090	4.5	4D (3F)4G	98535.850	3.5	4SP(5D)4F
1485.4108	-3.634	84844.834	2.5	4D (5D)6G	91575.139	2.5	5P (5D)6P	1510.6992	-2.370	86710.837	1.5	4D (5D)4F	93328.480	1.5	4P (3F)4F
1485.6108	-4.013	99332.102	4.5	5S (3H)2H	92602.703	3.5	4P (3F)2G	1511.4193	-3.316	105211.140	4.5	5D (5D)4G	98596.650	4.5	4SP(5D)4H
1485.7558	-2.159	86599.738	2.5	4D (5D)4F	93328.480	1.5	4P (3F)4F	1511.5411	-2.619	54273.641	4.5	D5S2(7S)4G	60887.598	5.5	4P (3H)4H
1486.8868	-2.615	88157.116	1.5	4D (5D)4P	94880.740	0.5	4SP(5P)4P	1512.8094	-3.991	54904.222	3.5	D6S (3F)2F	61512.634	4.5	4P (3H)4I
1487.3912	-4.206	84326.912	2.5	4D (5D)6P	91048.256	1.5	5P (5D)6P	1513.5052	-2.574	54232.195	5.5	D5S2(7S)4G	60837.569	6.5	4P (3H)4H
1488.6184	-4.477	54273.641	4.5	D5S2(7S)4G	60989.444	4.5	4P (3H)4H	1513.9499	-1.419	83990.063	1.5	4D (5D)6D	90593.497	1.5	5P (5D)6P
1488.7893	-3.936	87985.628	2.5	4D (5D)4P	94700.660	2.5	4P (3F)2D	1514.0680	-4.702	102842.119	4.5	5S (3G)4G	96239.200	4.5	4SP(3G)2H
1489.1142	-3.002	86416.333	3.5	4D (5D)4F	93129.900	3.5	4P (3F)4D	1514.1040	-4.064	85679.698	2.5	4D (5D)4G	92282.460	3.5	4SP(5G)4F
1490.3684	-4.756	84131.563	0.5	4D (5D)4F	90839.480	0.5	4P (3F)4P	1516.0188	-3.400	85728.806	1.5	4D (5D)4G	92274.120	2.5	4P (3P)4P
1490.5291	-3.174	77230.900	4.5	D5S2(7S)2H	70523.706	3.5	4P (3G)2G	1516.0936	-4.515	57493.321	1.5	D5S2(7S)4P	64087.418	2.5	4P (3F)4G

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
1516.5943	-4.590	105127.770	2.5	5D (5D)4D	98555.850	3.5	4SP(5D)4F	1543.5615	-2.498	84424.370	1.5	4D (5D)6P
1517.0156	-2.729	99918.569	1.5	5S (3F)4F	93328.480	1.5	4P (3F)4F	1543.7265	-4.089	102334.112	2.5	6S (5D)6D
1517.7065	-1.157	83713.536	3.5	4D (5D)6D	90300.625	3.5	5P (5D)6F	1544.0982	-2.286	84424.370	1.5	4D (5D)6P
1517.9686	-1.449	95728.806	1.5	4D (5D)4S	92314.758	0.5	5P (5D)4F	1544.3374	-3.994	104828.160	2.5	5D (5D)6D
1518.2129	-2.749	102802.312	2.5	6S (5D)4D	96217.420	3.5	4SP(5P)4D	1545.9135	-3.045	105063.550	5.5	4D (3F)4G
1518.6031	-2.492	98445.400	4.5	5S (3H)4H	105028.600	3.5	4SP(3I)4H	1547.0293	-4.910	54870.528	2.5	D6S (3F)2F
1518.8675	-3.360	88157.116	1.5	4D (5D)4F	94739.170	1.5	4SP(5P)4F	1547.1016	-2.950	84131.563	0.5	4D (5D)6D
1520.4890	-4.022	54232.119	5.5	D5S2(7S)4G	60807.230	4.5	4P (3H)4G	1547.5288	-3.285	105230.290	0.5	5D (5D)4D
1520.6680	-1.794	83726.364	4.5	4D (5D)6D	90300.625	3.5	5P (5D)6F	1547.6395	-1.473	98568.912	3.5	5S (3H)4H
1521.0092	-3.575	84326.912	2.5	4D (5D)6P	90901.124	2.5	5P (5D)4F	1548.2234	-4.091	84710.685	3.5	4D (5D)6G
1521.2002	-2.064	90898.873	1.5	4D (5D)6P	90981.873	1.5	4P (3P)4P	1549.0733	-3.022	84326.912	2.5	4D (5D)6F
1522.8788	-3.051	102584.963	5.5	5S (3G)4G	109149.680	6.5	4SP(3I)2I	1549.4759	-4.201	98568.912	3.5	5S (3H)4H
1523.8507	-3.819	105065.630	3.5	5D (5D)6G	98505.100	2.5	4SP(5D)4D	1550.7118	-3.779	78577.280	4.5	D5S2(7S)2G
1524.0937	-3.695	60441.033	1.5	5S (3F)4F	67000.517	2.5	4P (3F)2D	1550.8321	-4.987	100749.810	2.5	5S (3F)2F
1524.3370	-2.956	99688.337	3.5	5S (3F)4F	93129.900	3.5	4P (3F)4D	1551.4804	-4.266	85728.806	1.5	4D (5D)4S
1524.9346	-3.720	85462.862	3.5	4D (5D)4G	92008.729	2.5	4SP(5D)6F	1551.5698	-4.222	99573.225	4.5	5S (3F)4D
1525.0799	-4.206	60445.275	2.5	D5S2(7S)4D	67000.517	2.5	4P (3F)2D	1553.1354	-3.989	104828.160	2.5	5D (5D)6D
1526.2679	-2.765	88189.030	0.5	4D (5D)4F	94739.170	1.5	4SP(5P)4D	1553.4201	-4.307	105203.790	2.5	5D (5D)6G
1526.7765	-3.861	102543.648	1.5	6S (5D)6D	95995.690	2.5	4SP(5P)4D	1554.8840	-2.858	102842.119	4.5	5S (3G)4G
1527.3932	-2.972	85728.806	1.5	4D (5D)4S	92274.120	2.5	4P (3P)4D	1555.1032	-2.802	99824.045	2.5	5S (3F)4F
1527.8064	-4.495	88157.116	1.5	4D (5D)4P	94700.660	2.5	4P (3F)2D	1555.0502	-1.913	85495.304	2.5	4D (5D)6S
1529.4242	-3.261	85679.698	2.5	4D (5D)4G	92216.320	1.5	4P (3P)2D	1557.5029	-4.638	100492.020	3.5	5S (3F)2F
1530.1342	-3.372	54273.641	4.5	D5S2(7S)4G	60807.230	4.5	4P (3H)4G	1558.3939	-3.896	84424.370	1.5	4D (5D)6P
1530.9372	-3.690	86599.738	2.5	4D (5D)4F	93129.900	3.5	4P (3F)4D	1558.4821	-3.635	98568.912	3.5	5S (3H)4H
1531.0268	-4.696	105065.630	3.5	5D (5D)6G	98535.850	3.5	4SP(5D)4F	1562.3105	-4.216	102394.718	3.5	6S (5D)4D
1531.1795	-1.044	98130.131	6.5	5S (3H)4H	104659.260	6.5	4SP(3I)4H	1563.1936	-4.272	73395.930	2.5	D5S2(7S)4F
1531.4504	-3.324	88157.116	1.5	4D (5D)4P	94685.090	2.5	4SP(5D)6P	1563.7215	-2.997	54232.119	5.5	D5S2(7S)4G
1531.8776	-3.803	85048.602	1.5	4D (5D)4D	91575.139	2.5	5P (5D)6P	1565.6573	-0.973	84685.198	3.5	4D (5D)4D
1532.3809	-4.239	54283.220	3.5	D5S2(7S)4G	60807.230	4.5	4P (3H)4G	1568.8718	-2.411	84266.556	3.5	4D (5D)6P
1532.5183	-3.091	85495.304	2.5	4D (5D)6S	92018.729	2.5	4SP(5D)6F	1569.7039	-2.534	98445.400	4.5	5S (3H)4H
1532.5690	-3.316	99918.569	1.5	5S (3F)4F	93395.360	2.5	4P (3F)4F	1569.7039	-2.614	98568.912	3.5	5S (3H)4H
1532.6409	-4.107	102584.963	5.5	5S (3G)4G	96062.060	5.5	4SP(3G)2H	1570.6976	-2.794	84844.834	2.5	4D (5D)6G
1532.7594	-1.207	98294.401	5.5	5S (3H)4H	104816.800	5.5	4SP(3I)4H	1570.6976	-1.784	84844.834	2.5	4D (5D)6G
1533.6597	-3.953	104873.230	3.5	5D (5D)4D	98354.660	2.5	4SP(5D)4F	1571.0295	-3.628	73637.340	1.5	D5S2(7S)4F
1533.7021	-4.927	105288.530	1.5	5D (5D)6G	98770.140	1.5	4SP(5D)4F	1571.0295	-0.954	84710.685	3.5	4D (5D)6G
1534.1106	-1.676	84131.563	0.5	4D (5D)6D	90648.217	0.5	5P (5D)6F	1571.9317	-0.954	84710.685	3.5	4D (5D)6G
1534.5425	-0.720	105414.180	2.5	4D (3F)4G	111929.000	2.5	2900D	1572.4835	-3.410	105127.770	2.5	5D (5D)4D
1534.6579	-3.673	100492.020	3.5	5S (3F)2F	107006.350	4.5	4SP(3I)2H	1572.8522	-3.907	98445.400	4.5	5S (3H)4H
1534.6636	-4.570	103265.694	0.5	6S (5D)4D	109780.000	1.5	2800D	1572.9940	-3.612	108804.667	3.5	5S (3D)4D
1534.7204	-3.045	84266.556	3.5	4D (5D)6P	90780.621	3.5	5P (5D)4F	1573.4287	-4.398	83713.536	3.5	4D (5D)6D
1538.4344	-3.276	84131.563	0.5	4D (5D)6D	90629.902	1.5	4P (3P)4S	1573.9249	-4.510	54273.641	4.5	D5S2(7S)4G
1538.5746	-3.559	83990.063	1.5	4D (5D)6D	90487.810	2.5	5P (5D)6F	1574.1846	-3.832	104705.420	3.5	5D (5D)6D
1538.8149	-2.239	85728.806	1.5	4D (5D)4S	92225.538	1.5	5P (5D)4F	1574.8278	-0.561	85495.304	2.5	4D (5D)6S
1539.0914	-3.181	99824.400	2.5	5S (3F)4F	93328.480	1.5	4P (3F)4F	1574.8995	-4.889	79439.467	3.5	5S (5D)4D
1539.8417	-1.362	98445.400	4.5	5S (3H)4H	104937.800	4.5	4SP(3I)4H	1575.9837	-4.456	100492.020	3.5	5S (3F)2F
1540.0082	-3.504	73492.215	3.5	D5S2(7S)4F	67000.517	2.5	4P (3F)2D	1576.6118	-0.817	83726.364	4.5	4D (5D)6D
1540.4396	-4.771	104828.160	2.5	5D (5D)6D	98338.280	1.5	4SP(5P)4S	1576.9673	-0.176	105589.420	3.5	4D (3F)4H
1540.8126	-2.431	83812.316	2.5	4D (5D)6D	90300.625	3.5	5P (5D)6F	1577.0970	-4.372	85679.698	2.5	4D (5D)4G
1541.5189	-2.030	83726.364	4.5	4D (5D)6D	90211.700	5.5	4P (3F)4G	1577.2488	-4.194	102334.112	2.5	6S (5D)6D
1541.5610	-3.520	102842.119	4.5	5S (3G)4G	96356.960	3.5	4SP(3G)2F	1577.3479	-2.430	84870.863	2.5	4D (5D)4D
1542.1060	-2.302	86416.333	3.5	4D (5D)4F	92899.200	2.5	4P (3F)4D	1577.5081	-4.420	104873.230	3.5	5D (5D)4D
1542.1365	-2.061	84685.198	3.5	4D (5D)4D	91167.937	3.5	5P (5D)6F	1577.7534	-3.416	99824.045	2.5	5S (3F)4F
1542.1610	-4.448	85728.806	1.5	4D (5D)4S	79246.170	1.5	4SP(5S)6P	1578.6864	-3.823	104868.500	4.5	5D (5D)6G
1542.3361	-2.635	104873.230	3.5	5D (5D)4D	98391.330	3.5	4SP(5D)4D	1579.6917	-2.443	88445.400	4.5	5S (3H)4H
1542.8712	-2.510	98568.912	3.5	5S (3H)4H	92089.260	3.5	4SP(5G)4H	1581.0700	-4.678	94844.834	2.5	4D (5D)6G
1542.9169	-4.116	105449.540	3.5	5D (5D)4G	111929.000	2.5	2900D	1581.0808	-4.224	104828.160	2.5	5D (5D)6D
1543.1689	-3.176	86124.301	4.5	4D (5D)4F	92602.703	3.5	4P (3F)2G	1582.4107	-2.124	83308.194	2.5	4D (5D)6F
1543.4624	-4.073	104868.500	4.5	5D (5D)6G	98391.330	3.5	4SP(5D)4D	1582.7744	-3.740	83726.364	4.5	4D (5D)6D
90901.124	2.5	5P (5D)4P	90901.124	2.5	5P (5D)4P							
95858.050	1.5	4SP(5P)4D	95858.050	1.5	4SP(5P)4D							
90898.873	1.5	4P (3F)4P	90898.873	1.5	4P (3F)4P							
98348.660	2.5	4SP(5D)4F	98348.660	2.5	4SP(5D)4F							
98596.650	4.5	4SP(5D)4F	98596.650	4.5	4SP(5D)4F							
61332.764	1.5	4P (3F)4P	61332.764	1.5	4P (3F)4P							
90593.497	1.5	5P (5D)6F	90593.497	1.5	5P (5D)6F							
98770.140	1.5	4SP(5D)4D	98770.140	1.5	4SP(5D)4D							
105028.600	3.5	4SP(3I)4H	105028.600	3.5	4SP(3I)4H							
91167.937	3.5	5P (5D)6P	91167.937	3.5	5P (5D)6P							
90780.621	3.5	5P (5D)4F	90780.621	3.5	5P (5D)4F							
92116.780	4.5	4SP(5G)4H	92116.780	4.5	4SP(5G)4H							
107196.200	2.5	1800D	107196.200	2.5	1800D							
79285.110	2.5	4SP(5S)6P	79285.110	2.5	4SP(5S)6P							
93129.900	3.5	4P (3F)4D	93129.900	3.5	4P (3F)4D							
98391.330	3.5	4SP(5D)4D	98391.330	3.5	4SP(5D)4D							
98770.140	1.5	4SP(5D)4D	98770.140	1.5	4SP(5D)4D							
109271.710	5.5	4SP(3I)2I	109271.710	5.5	4SP(3I)2I							
93395.360	2.5	4P (3F)4F	93395.360	2.5	4P (3F)4F							
91915.950	1.5	4SP(5D)6F	91915.950	1.5	4SP(5D)6F							
94073.240	3.5	4SP(5G)4G	94073.240	3.5	4SP(5G)4G							
90839.480	0.5	4P (3P)4P	90839.480	0.5	4P (3P)4P							
92154.165	3.5	4SP(5D)6F	92154.165	3.5	4SP(5D)6F							
95995.690	2.5	4SP(5P)4D	95995.690	2.5	4SP(5P)4D							
67000.517	2.5	4P (3F)2D	67000.517	2.5	4P (3F)2D							
60625.449	5.5	4P (3H)4G	60625.449	5.5	4P (3H)4G							
91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F							
104659.260	6.5	4SP(3I)4H	104659.260	6.5	4SP(3I)4H							
91208.887	1.5	5P (5D)4F	91208.887	1.5	5P (5D)4F							
91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F							
92889.260	3.5	4SP(5G)4H	92889.260	3.5	4SP(5G)4H							
102449.100	2.5	4SP(3D)2D	102449.100	2.5	4SP(3D)2D							
90067.347	4.5	5P (5D)6F	90067.347	4.5	5P (5D)6F							
60625.449	5.5	4P (3H)4G	60625.449	5.5	4P (3H)4G							
98354.660	2.5	4SP(5D)4F	98354.660	2.5	4SP(5D)4F							
91843.470	1.5	5P (5D)6P	91843.470	1.5	5P (5D)6P							
73091.590	4.5	4P (1G)2G	73091.590	4.5	4P (1G)2G							
94148.510	4.5	4SP(5G)4G	94148.510	4.5	4SP(5G)4G							
90067.347	4.5	5P (5D)6F	90067.347	4.5	5P (5D)6F							
111929.000	2.5	2900D	111929.000									

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL				
1582.9606	-3.765	78577.280	4.5	D5S2(7S)2G	72261.729	5.5	4P (1G)2H	1618.5094	-4.955	83713.536	3.5	4D (5D)6D	89890.373	3.5	4P (3F)4G	1618.7351	-4.154	86124.301	4.5	4D (5D)4F	92300.277	4.5	4SP(5D)6F				
1583.3269	-2.717	104705.420	3.5	5D (5D)6D	98391.330	3.5	4SP(5D)4D	1618.7702	-4.723	86124.301	4.5	6S (5D)4F	108570.560	4.5	4SP(3G)4G	1619.8768	-3.454	60441.033	1.5	D5S2(7S)4D	66612.656	1.5	4P (3G)4F				
1583.8738	-1.756	84326.912	2.5	4D (5D)6P	90638.828	2.5	5P (5D)4D	1619.8768	-3.454	60441.033	1.5	D5S2(7S)4D	66612.656	1.5	4P (3G)4F	98535.850	3.5	4SP(5D)4F	90593.497	1.5	5P (5D)6F	89625.940	1.5	4P (3G)4F			
1584.8628	-1.754	83136.487	3.5	4D (5D)6F	89444.458	2.5	4SP(5G)6P	1620.4158	-3.895	104705.420	3.5	5D (5D)6D	98535.850	3.5	4SP(5D)4F	90593.497	1.5	5P (5D)6F	89625.940	1.5	4P (3G)4F	90593.497	1.5	5P (5D)6F	89625.940	1.5	4P (3G)4F
1584.1153	-2.715	84326.912	2.5	4D (5D)6P	90629.902	1.5	4P (3F)4S	1620.9910	-4.541	60445.275	2.5	D5S2(7S)4D	66612.656	1.5	4P (3G)4F	90593.497	1.5	5P (5D)6F	89625.940	1.5	4P (3G)4F	90593.497	1.5	5P (5D)6F	89625.940	1.5	4P (3G)4F
1586.1935	-2.297	86124.301	4.5	4D (5D)4F	92426.980	4.5	4SP(5G)4F	1621.2830	-1.763	83459.670	1.5	4D (5D)6F	99282.460	3.5	4SP(5G)6P	64831.943	4.5	4P (3F)2G	79331.500	3.5	4SP(5G)6P	92300.277	4.5	4SP(5D)6F	91070.547	2.5	5P (5D)4F
1587.0036	-4.136	86599.738	2.5	4D (5D)4F	92899.200	2.5	4P (3F)4D	1621.4369	-4.454	58666.258	3.5	D6S (1G)2G	64831.943	4.5	4P (3F)2G	79331.500	3.5	4SP(5G)6P	92300.277	4.5	4SP(5D)6F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F
1587.6054	-2.765	84870.863	2.5	4D (5D)4D	91167.937	3.5	5P (5D)6P	1621.9317	-1.834	85495.304	2.5	4D (5D)6S	79331.500	3.5	4SP(5G)6P	92300.277	4.5	4SP(5D)6F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F
1588.6390	-3.117	99688.337	3.5	5S (3F)4F	93395.360	2.5	4P (3F)4F	1622.1591	-4.775	98445.400	4.5	5S (3H)4H	79331.500	3.5	4SP(5G)6P	92300.277	4.5	4SP(5D)6F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F
1590.2879	-4.983	98568.912	3.5	5S (3H)4H	92282.460	3.5	4SP(5G)4F	1622.6967	-1.581	84326.912	2.5	4D (5D)6P	90487.810	2.5	5P (5D)6F	89625.940	1.5	4P (3G)4F	90487.810	2.5	5P (5D)6F	89625.940	1.5	4P (3G)4F	90487.810	2.5	5P (5D)6F
1590.3246	-3.900	54870.528	2.5	D6S (3F)2F	61156.833	3.5	4P (3H)4H	1622.8582	-1.192	85048.602	1.5	4D (5D)4F	91288.887	1.5	5P (5D)4F	91288.887	1.5	5P (5D)4F	91288.887	1.5	5P (5D)4F	91288.887	1.5	5P (5D)4F	91288.887	1.5	5P (5D)4F
1590.9041	-4.275	102584.963	5.5	5S (3G)4G	108868.980	4.5	4SP(3G)4H	1623.4184	-2.781	86124.301	4.5	4D (5D)4F	64831.943	4.5	4P (3F)2G	79331.500	3.5	4SP(5G)6P	92300.277	4.5	4SP(5D)6F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F
1591.7114	-4.662	105288.530	1.5	5D (5D)6G	99007.700	0.5	4SP(5D)4F	1623.4184	-2.781	86124.301	4.5	4D (5D)4F	64831.943	4.5	4P (3F)2G	79331.500	3.5	4SP(5G)6P	92300.277	4.5	4SP(5D)6F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F
1592.1649	-3.205	86416.333	3.5	4D (5D)4F	92695.374	2.5	4P (3F)2D	1625.2699	-1.342	85048.602	1.5	4D (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D
1592.2260	-4.128	98445.400	4.5	5S (3H)4H	92166.600	5.5	4SP(5G)4H	1625.2699	-1.342	85048.602	1.5	4D (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D
1592.7892	-4.136	104873.230	3.5	5D (5D)4D	98596.650	4.5	4SP(5D)4F	1625.2699	-1.342	85048.602	1.5	4D (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D
1593.5244	-3.424	98445.400	4.5	5S (3H)4H	92171.716	4.5	4P (3F)2G	1626.8623	-4.077	98445.400	4.5	5S (3H)4H	79331.500	3.5	4SP(5G)6P	92300.277	4.5	4SP(5D)6F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F
1593.7045	-4.727	78237.685	3.5	5S (5D)6D	71964.710	2.5	4P (3D)4P	1627.1075	-1.750	102584.963	5.5	5S (3G)4G	108729.160	6.5	4SP(3G)4H	108729.160	6.5	4SP(3G)4H	108729.160	6.5	4SP(3G)4H	108729.160	6.5	4SP(3G)4H	108729.160	6.5	4SP(3G)4H
1593.9904	-4.559	104868.500	4.5	5D (5D)6G	98596.650	4.5	4SP(5D)4F	1628.8760	-4.524	54904.222	3.5	D6S (3F)2F	61041.748	2.5	4P (3H)4G	61041.748	2.5	4P (3H)4G	61041.748	2.5	4P (3H)4G	61041.748	2.5	4P (3H)4G	61041.748	2.5	4P (3H)4G
1594.2809	-2.017	84938.180	1.5	4D (5D)6G	91208.887	1.5	5P (5D)4F	1629.2110	-1.460	83308.194	2.5	4D (5D)6F	89444.458	2.5	4SP(5P)6P	89444.458	2.5	4SP(5P)6P	89444.458	2.5	4SP(5P)6P	89444.458	2.5	4SP(5P)6P	89444.458	2.5	4SP(5P)6P
1595.2800	-2.510	104863.430	5.5	5D (5D)4G	98596.650	4.5	4SP(5D)4F	1629.2110	-1.460	83308.194	2.5	4D (5D)6F	89444.458	2.5	4SP(5P)6P	89444.458	2.5	4SP(5P)6P	89444.458	2.5	4SP(5P)6P	89444.458	2.5	4SP(5P)6P	89444.458	2.5	4SP(5P)6P
1595.3296	-2.212	84326.912	2.5	4D (5D)6P	90593.497	1.5	5P (5D)6F	1630.2464	-2.596	84938.180	1.5	4D (5D)6G	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F
1596.6084	-2.368	84938.180	1.5	4D (5D)6G	91199.746	0.5	5P (5D)4D	1630.3014	-3.695	103983.510	3.5	5S (3G)2G	97851.350	4.5	4P (1G)2H	97851.350	4.5	4P (1G)2H	97851.350	4.5	4P (1G)2H	97851.350	4.5	4P (1G)2H	97851.350	4.5	4P (1G)2H
1596.8357	-0.575	84927.778	4.5	4D (5D)6G	90780.621	3.5	5P (5D)4F	1630.3014	-3.695	103983.510	3.5	5S (3G)2G	97851.350	4.5	4P (1G)2H	97851.350	4.5	4P (1G)2H	97851.350	4.5	4P (1G)2H	97851.350	4.5	4P (1G)2H	97851.350	4.5	4P (1G)2H
1598.8945	-4.515	54904.222	3.5	D6S (3F)2F	61156.833	3.5	4P (3H)4H	1631.4611	-2.316	98294.401	5.5	5S (3H)4H	79331.500	3.5	4SP(5G)4H	79331.500	3.5	4SP(5G)4H	79331.500	3.5	4SP(5G)4H	79331.500	3.5	4SP(5G)4H	79331.500	3.5	4SP(5G)4H
1599.0603	-4.682	60270.339	3.5	D5S2(7S)4D	66522.100	2.5	4P (3G)4F	1632.9793	-4.809	73395.930	2.5	D5S2(7S)4F	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D
1599.7847	-1.684	85495.304	2.5	4D (5D)6S	79246.370	1.5	4SP(5S)6P	1632.9793	-4.809	73395.930	2.5	D5S2(7S)4F	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D	67273.826	1.5	4P (3F)2D
1603.0893	-3.796	85679.698	2.5	4D (5D)4G	91915.950	1.5	4SP(5D)6F	1633.5482	-1.695	84266.556	3.5	4D (5D)6P	90386.528	4.5	5P (5D)4F	90386.528	4.5	5P (5D)4F	90386.528	4.5	5P (5D)4F	90386.528	4.5	5P (5D)4F	90386.528	4.5	5P (5D)4F
1605.1396	-3.058	60384.370	0.5	D5S2(7S)4D	66612.656	1.5	4P (3G)4F	1634.4241	-4.260	102334.112	2.5	6S (5D)6D	96217.716	4.5	4P (3F)2D	96217.716	4.5	4P (3F)2D	96217.716	4.5	4P (3F)2D	96217.716	4.5	4P (3F)2D	96217.716	4.5	4P (3F)2D
1605.7004	-2.545	87985.628	2.5	4D (5D)4P	94211.739	2.5	4SP(5P)4P	1634.4241	-4.260	102334.112	2.5	6S (5D)6D	96217.716	4.5	4P (3F)2D	96217.716	4.5	4P (3F)2D	96217.716	4.5	4P (3F)2D	96217.716	4.5	4P (3F)2D	96217.716	4.5	4P (3F)2D
1605.8030	-1.459	84844.834	2.5	4D (5D)6G	91070.547	2.5	5P (5D)4F	1635.6047	-4.335	85462.862	3.5	4D (5D)4S	91843.470	1.5	5P (5D)6P	91843.470	1.5	5P (5D)6P	91843.470	1.5	5P (5D)6P	91843.470	1.5	5P (5D)6P	91843.470	1.5	5P (5D)6P
1605.9209	-3.760	78577.280	4.5	D5S2(7S)2G	72352.024	3.5	4P (3D)4F	1636.1939	-2.152	84938.180	1.5	4D (5D)6G	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F	91070.547	2.5	5P (5D)4F
1606.1554	-3.091	102584.963	5.5	5S (3G)4G	108809.310	5.5	4SP(3G)4H	1636.5482	-1.695	84266.556	3.5	4D (5D)6P	90386.528	4.5	5P (5D)4F	90386.528	4.5	5P (5D)4F	90386.528	4.5	5P (5D)4F	90386.528	4.5	5P (5D)4F	90386.528	4.5	5P (5D)4F
1606.2845	-2.632	84424.370	1.5	4D (5D)6P	90648.212	0.5	5P (5D)6F	1636.5482	-1.695	84266.556	3.5	4D (5D)6P	90386.528	4.5	5P (5D)4F	90386.528	4.5										

VI (NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	VI (NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1653.1475	-3.699	86124.301	4.5	4D (5D)4F	92171.710	4.5	4P (3F)2G	1694.7664	-1.772	102584.963	5.5	5S (3G)4G	108483.870	5.5	45F(3G)4G
1654.0293	-4.227	98294.401	5.5	5S (3H)4H	92250.210	6.5	4SP(5G)4H	1695.7628	-4.858	85679.698	2.5	4D (5D)4G	91575.139	2.5	5P (5D)6P
1655.6351	-4.274	81639.260	2.5	D5S2(7S)2F	75600.931	3.5	4P (3D)2F	1697.6345	-4.162	105524.461	4.5	4D (3F)4H	99635.520	3.5	48P(3G)2G
1655.7916	-4.162	102394.718	3.5	6S (5D)4D	96356.960	3.5	4SP(3G)2H	1698.3024	-3.248	57578.484	0.5	D5S2(7S)4H	63465.109	1.5	4P (3F)4D
1656.1093	-4.589	104315.370	6.5	4D (3H)2K	98278.770	5.5	4P (1G)2H	1700.2387	-2.229	98130.131	6.5	5S (3H)4H	92250.210	6.5	45F(5G)4H
1656.2525	-0.895	85172.809	0.5	4D (5D)4D	91208.887	1.5	5P (5D)4F	1700.9643	-4.432	73393.745	4.5	D5S2(7S)4F	67516.332	5.5	4P (3G)2H
1656.44874	-4.314	102030.912	3.5	6S (5D)6D	95995.690	2.5	4SP(5P)4D	1701.4196	-4.726	104411.690	4.5	5D (5D)6F	98505.100	3.5	48P(5D)4F
1656.5126	-4.951	104426.460	2.5	5D (5D)6F	98391.330	3.5	4SP(5D)4D	1701.9196	-4.888	104380.940	3.5	5D (5D)6F	98505.100	3.5	48P(5D)4F
1656.8039	-2.070	84266.456	3.5	4D (5D)6P	90300.625	3.5	5P (5D)6F	1701.5334	-1.204	85172.809	0.5	4D (5D)4D	91048.256	1.5	5P (5D)4D
1657.8502	-1.595	84870.863	2.5	4D (5D)4D	90901.124	2.5	5P (5D)4P	1701.7046	-0.293	82978.677	4.5	4D (5D)6F	88853.533	3.5	5P (5D)6D
1657.9593	-4.071	86124.301	4.5	4D (5D)4F	92154.165	3.5	4SP(5D)6F	1701.8767	-2.874	88157.116	1.5	4D (5D)4P	94031.378	0.5	48P(5D)6D
1658.44874	-0.477	84870.863	2.5	4D (5D)4D	90898.873	1.5	4P (3P)4F	1702.6700	-0.554	83459.670	1.5	4D (5D)6F	89331.195	1.5	5P (5D)6D
1658.7645	-0.799	85172.809	0.5	4D (5D)4D	91199.746	0.5	5P (5D)4D	1703.0862	-0.362	84527.778	4.5	4D (5D)6G	90397.868	3.5	5P (5D)6D
1658.7854	-3.863	102842.119	4.5	5S (3G)4G	108868.980	4.5	4SP(3G)4H	1703.1872	-0.210	82853.658	5.5	4D (5D)6F	88723.400	4.5	5P (5D)6D
1659.8485	-0.881	83308.194	2.5	4D (5D)6F	89331.195	1.5	5P (5D)6D	1703.3869	-4.991	98294.401	5.5	5S (3H)4H	92426.980	4.5	48P(5G)4F
1660.1396	-2.296	85048.602	1.5	4D (5D)4D	91070.547	2.5	5P (5D)4F	1704.2368	-2.620	86416.333	3.5	4D (5D)4F	92822.460	3.5	48P(5G)4F
1661.1119	-4.829	98445.400	4.5	5S (3H)4H	92426.980	4.5	4SP(5G)4F	1705.3595	-3.983	98294.401	5.5	5S (3H)4H	92432.136	5.5	48P(5D)6F
1662.9701	-1.831	83459.670	1.5	4D (5D)6F	89471.365	0.5	5P (5D)6D	1705.4625	-3.193	57411.065	2.5	D5S2(7S)4F	63272.976	2.5	4P (3F)4D
1663.2601	-3.529	86416.333	3.5	4D (5D)4F	92426.980	4.5	4SP(5G)4F	1706.3827	-1.042	84527.778	4.5	4D (5D)6G	90386.528	4.5	5P (5D)4F
1664.5054	-1.831	105763.270	5.5	4D (3F)2H	99757.120	4.5	4P (1G)2G	1707.2750	-4.665	102030.912	3.5	6S (5D)6D	107886.600	3.5	240DD
1665.3886	-3.801	86599.738	2.5	4D (5D)4F	92602.703	3.5	4P (3F)2G	1707.5596	-3.249	87985.628	2.5	4D (5D)4P	93840.340	1.5	48P(5D)6D
1665.7038	-4.871	93987.457	3.5	4D (5D)4P	93987.457	3.5	4SP(5D)6D	1708.1985	-2.115	85048.602	1.5	4D (5D)4D	90901.124	2.5	5P (5D)4P
1666.3076	-0.575	85048.602	1.5	4D (5D)4D	91048.256	1.5	5P (5D)4D	1708.8558	-1.606	85048.602	1.5	4D (5D)4D	90988.873	1.5	4P (3F)4P
1667.1507	-3.444	104593.270	5.5	5D (5D)6G	98596.650	4.5	4SP(5D)4F	1709.6159	-4.983	73393.930	2.5	D5S2(7S)4F	79243.600	1.5	4P (1D)2P
1668.3028	-4.803	86124.301	4.5	4D (5D)4F	92116.780	4.5	4SP(5G)4H	1709.6591	-3.119	99332.102	4.5	5S (3H)2H	93484.580	4.5	48P(5D)6D
1668.4155	-1.092	83136.487	3.5	4D (5D)6F	89128.561	3.5	4SP(5P)6P	1710.0069	-2.247	85728.806	1.5	4D (5D)4S	91575.139	2.5	5P (5D)6P
1669.1019	-4.158	104380.940	3.5	5D (5D)6F	98391.330	3.5	4SP(5D)4D	1710.5484	-3.274	87985.628	2.5	4D (5D)4P	93830.979	2.5	48P(5D)6D
1670.2209	-3.020	102584.963	5.5	5S (3G)4G	108570.560	4.5	4SP(3G)4C	1710.5484	-3.495	102394.718	3.5	6S (5D)4D	108239.200	3.5	240DD
1670.4467	-1.785	83459.670	1.5	4D (5D)6F	89444.458	2.5	4SP(5P)6P	1710.5572	-3.748	99332.102	4.5	5S (3H)2H	93487.650	3.5	4P (3F)4F
1670.5167	-4.217	86710.837	1.5	4D (5D)4F	92695.374	2.5	4P (3P)2D	1711.5876	-3.937	99093.452	5.5	5S (3H)2H	104937.800	4.5	48P(5D)6D
1670.9543	-0.595	83136.487	3.5	4D (5D)6F	89119.457	2.5	5P (5D)6D	1711.7732	-3.675	88189.030	0.5	4D (5D)4P	94031.378	0.5	48P(5D)6D
1671.5035	-3.307	57578.484	0.5	D5S2(7S)4D	63559.488	0.5	4P (3F)4D	1713.0712	-3.318	99824.045	2.5	5S (3F)4F	93988.170	2.5	48P(5G)4G
1672.4308	-3.848	102802.312	2.5	6S (5D)4D	108780.000	1.5	270DD	1713.9138	-4.804	78185.030	3.5	D5S2(7S)2G	72352.024	3.5	4P (3D)4F
1673.5436	-2.161	84326.912	2.5	4D (5D)6P	90300.625	3.5	5P (5D)6F	1715.1570	-4.733	102802.312	2.5	6S (5D)4D	108631.090	3.5	48P(3G)4G
1674.0831	-3.160	57493.321	1.5	D5S2(7S)4P	63465.109	1.5	4P (3F)4D	1717.6356	-1.506	83308.194	2.5	4D (5D)6F	89128.561	3.5	48P(5P)6P
1675.3728	-1.862	102842.119	4.5	5S (3G)4G	108809.310	5.5	4SP(3G)4H	1717.8812	-3.910	81734.750	3.5	D5S2(7S)2F	75915.215	2.5	4P (3D)2F
1676.5660	-3.494	98130.131	6.5	5S (3H)4H	99011.124	2.5	5P (5D)4P	1719.2091	-4.548	104411.690	4.5	5D (5D)6D	98596.650	4.5	48P(5D)4F
1677.1992	-3.499	84938.180	1.5	4D (5D)6G	90898.873	1.5	4P (3P)4F	1719.6278	-1.502	83812.316	2.5	4D (5D)6D	89625.940	1.5	48P(5P)6P
1678.7177	-4.860	50187.813	3.5	D6S (3F)4F	44232.512	4.5	4P (5D)4F	1719.6669	-4.116	102030.912	3.5	6S (5D)6D	96217.420	3.5	48P(5P)4D
1679.1127	-4.981	105589.420	3.5	4D (3F)4H	99635.520	3.5	4SP(3G)2G	1720.3265	-0.365	83308.194	2.5	4D (5D)6F	89119.457	2.5	5P (5D)6D
1679.1906	-1.448	84685.198	3.5	4D (5D)4D	90638.822	2.5	5P (5D)4D	1722.8913	-2.586	84685.198	3.5	4D (5D)4D	90487.810	2.5	5P (5D)6F
1681.1975	-4.747	78185.030	3.5	D5S2(7S)2G	72238.513	2.5	4P (3D)4F	1722.9447	-4.566	85048.602	1.5	4D (5D)4D	79246.170	1.5	48P(5S)6P
1683.2032	-3.801	103265.694	0.5	6S (5D)4D	97326.270	1.5	4SP(3P)2P	1724.7115	-4.996	102394.112	2.5	6S (5D)6D	108130.600	2.5	200DD
1684.2365	-2.302	84844.834	2.5	4D (5D)6G	90780.621	3.5	5P (5D)4F	1725.4557	-1.539	84844.834	2.5	4D (5D)6G	90638.822	2.5	5P (5D)4D
1684.8039	-3.828	102030.912	3.5	6S (5D)6D	107964.700	4.5	210DD	1726.0092	-3.677	103118.400	1.5	6S (5D)4D	97326.270	1.5	48P(3P)2P
1685.3095	-2.710	60445.275	2.5	D5S2(7S)4D	66377.283	3.5	4P (3G)4F	1726.2387	-3.851	100492.020	1.5	5D (3F)2F	94700.660	2.5	4P (3F)2D
1685.7667	-3.039	99918.569	1.5	5S (3F)4F	93988.170	2.5	4SP(5G)4G	1726.3824	-1.073	85048.602	3.5	4D (5D)4D	90839.480	0.5	4P (3F)4P
1686.4100	-1.065	84710.685	3.5	4D (5D)6G	90638.822	2.5	5P (5D)4D	1726.9511	-2.984	102842.119	4.5	5S (3G)4G	108631.090	3.5	48P(3G)4G
1686.8411	-4.473	78577.280	4.5	D5S2(7S)2G	72650.658	4.5	4P (3D)4F	1728.1162	-2.611	84844.834	2.5	4D (5D)6G	90629.902	1.5	4P (3P)4D
1687.1878	-3.676	85777.280	4.5	D5S2(7S)2G	72651.876	3.5	4P (3D)4F	1728.3486	-4.616	104380.940	3.5	5D (5D)6F	98596.650	4.5	48P(5D)4F
1687.3199	-3.846	50157.452	4.5	D6S (3F)4F	44232.512	4.5	4P (5D)4F	1729.3262	-4.925	105589.420	3.5	4D (3F)4H	99808.400	3.5	4P (1G)2G
1690.1926	-1.478	84296.830	5.5	4D (5D)6G	90211.700	5.5	4P (3F)4F	1729.7347	-2.982	57493.321	1.5	D5S2(7S)4P	63272.976	2.5	4P (3F)4D
1690.5679	-2.696	86416.333	3.5	4D (5D)4F	92329.890	2.5	4SP(5G)4F	1730.0325	-4.672	105414.180	2.5	4D (3F)4G	99635.520	3.5	48P(3G)2G
1690.7771	-0.755	83558.540	0.5	4D (5D)6F	89471.365	0.5	5P (5D)6D	1730.4922	-0.051	84710.685	3.5	4D (5D)6G	90487.810	2.5	5P (5D)6F
1691.6546	-3.166	84870.863	2.5	4D (5D)4D	90780.621	3.5	5P (5D)4F	1730.7624	-4.858	84266.556	3.5	4D (5D)6P	90042.779	4.5	4P (3F)4G
1692.9924	-4.815	102334.112	2.5	6S (5D)6D	108239.200	3.5	240DD	1731.7746	-0.096	84527.778	4.5	4D (5D)6G	90300.625	3.5	5P (5D)6F
1694.0792	-3.902	84939.480	0.5	4P (3P)4P	90839.480	0.5	4P (3P)4P	1731.8322	-1.010	83558.540	0.5	4D (5D)6F	89331.195	1.5	5P (5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1732.4738	0.046	84296.830	5.5	4D (5D)6G	90067.347	4.5	5P (5D)6F	1772.0154	-4.586	102842.119	4.5	5S (3G)4G	108483.870	5.5	4SP(3G)4G
1733.2421	-0.388	84870.863	2.5	4D (5D)4D	90638.822	2.5	5P (5D)4D	1772.0214	-3.080	105398.852	5.5	4D (3F)4H	99757.120	4.5	4P (1G)2G
1733.8467	-4.769	50212.826	2.5	D6S (3P)4P	44446.878	3.5	4P (5D)4D	1773.4347	-4.054	60441.033	1.5	D5S2(7S)4D	66078.269	2.5	4P (3G)4G
1733.9483	-4.946	104120.270	2.5	5D (5D)6F	98354.660	2.5	4SP(5D)4F	1773.8623	-1.374	83990.063	1.5	4D (3D)6D	89625.940	1.5	4SP(5P)6F
1735.3774	-0.047	82853.658	5.5	4D (5D)6F	88614.520	4.5	4SP(5P)6D	1773.8730	-0.485	82978.677	4.5	4D (5D)6F	88614.520	4.5	4SP(5P)6D
1735.8933	-4.072	58666.258	3.5	D6S (1G)2G	64425.408	2.5	4P (3F)2F	1774.7702	-4.556	60445.275	2.5	D5S2(7S)4D	66078.269	2.5	4P (3G)4G
1735.9171	-3.262	86599.738	2.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F	1775.0387	-0.973	83812.316	2.5	4D (5D)6D	89444.458	2.5	4SP(5P)6F
1738.4122	-2.922	99824.045	2.5	5S (3F)4F	94073.240	3.5	4SP(5G)4G	1776.5518	-0.983	84296.830	5.5	5P (5D)6F	89924.175	5.5	5P (5D)6F
1739.0600	-0.154	84844.834	2.5	4D (5D)6G	90593.497	1.5	5P (5D)6F	1777.3894	-3.694	84870.863	2.5	4D (5D)4D	79246.170	1.5	4SP(5S)6P
1739.8814	-2.853	84296.830	5.5	4D (5D)6G	90042.779	4.5	4P (3F)4G	1779.1734	-3.432	86710.837	1.5	4D (5D)4F	92329.890	2.5	4SP(5G)4F
1739.9174	-3.930	105398.852	5.5	4D (3F)4H	90487.820	4.5	4SP(3G)2G	1779.8405	-2.441	90487.820	2.5	4D (5D)4F	90487.820	2.5	5P (5D)6F
1740.2527	-0.446	82978.677	4.5	4D (5D)6F	88723.400	4.5	5P (5D)6D	1780.3223	-1.137	84685.198	3.5	4D (3D)4D	90300.625	3.5	5P (5D)6F
1740.8891	-2.607	86710.837	1.5	4D (5D)4F	92453.460	0.5	4P (3F)4F	1780.4269	-3.123	90688.337	3.5	5S (3F)4F	94073.240	3.5	4SP(5G)4G
1740.9534	-2.751	60270.339	3.5	D5S2(7S)4D	66012.700	4.5	4P (3G)4F	1782.4029	-4.529	99093.452	5.5	5S (3H)2H	93484.580	4.5	4P (3F)4F
1741.4010	-4.932	50187.813	3.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D	1782.7802	-0.235	85462.862	3.5	4D (5D)4G	91070.547	2.5	5P (5D)4F
1742.3420	-4.562	86416.333	3.5	4D (5D)4F	92154.165	3.5	4SP(5D)6F	1783.3861	-4.782	105414.180	2.5	4D (3F)4G	99808.400	3.5	4P (1G)2G
1742.9350	-4.474	102394.718	3.5	6S (5D)4D	108130.600	2.5	2D00D	1783.4121	-4.473	99332.102	4.5	5S (3H)2H	104937.800	4.5	4SP(3I)4H
1744.4435	-0.836	83713.536	3.5	4D (5D)6D	89444.458	2.5	4SP(5P)6P	1783.9777	-2.420	86710.837	1.5	4D (5D)4H	92314.758	0.5	5P (5D)4F
1744.6779	-2.706	86599.738	2.5	4D (5D)4F	92329.890	2.5	4SP(5G)4F	1784.4633	-3.668	86416.333	3.5	4D (5D)4F	92018.729	2.5	4SP(5D)6F
1745.1990	-1.959	102842.119	4.5	5S (3G)4G	108570.560	4.5	4SP(3G)4G	1785.3495	-3.009	85048.602	1.5	4D (5D)4D	90648.217	0.5	5P (5D)6F
1745.9235	-3.083	85172.809	0.5	4D (5D)4D	90898.873	1.5	4P (3P)4F	1785.6528	-4.885	84844.834	2.5	4D (5D)6G	79246.170	1.5	4SP(5S)6P
1746.5393	-2.991	81639.260	2.5	D5S2(7S)2F	75915.215	2.5	4P (3D)2F	1786.5389	-0.201	85184.734	4.5	4D (5D)4G	90780.621	3.5	5P (5D)4F
1746.7520	-3.409	99093.452	5.5	5S (3H)2H	104816.800	5.5	4SP(3I)4H	1788.3500	-0.600	85048.602	1.5	4D (5D)4D	90638.822	2.5	5P (5D)4D
1746.9700	-3.970	84870.863	2.5	4D (5D)4D	90593.497	1.5	5P (5D)6F	1788.4396	-0.809	84710.685	3.5	4D (5D)6G	90300.625	3.5	5P (5D)4D
1748.6775	-0.257	83136.487	3.5	4D (5D)6F	88833.533	3.5	5P (5D)6D	1789.4086	-1.048	83136.487	3.5	4D (5D)6F	88723.400	4.5	5P (5D)6D
1748.9788	-3.855	105524.461	4.5	4D (3F)4H	99808.400	3.5	4P (1G)2G	1789.7802	-4.366	84870.863	2.5	4D (5D)4D	79285.110	2.5	4SP(5S)6P
1749.7374	-4.432	85495.304	2.5	4D (5D)6S	91208.887	1.5	5P (5D)4F	1791.2081	-3.718	85048.602	1.5	4D (5D)4D	90629.902	1.5	4P (3P)4S
1750.0170	-0.278	84685.198	3.5	4D (5D)4D	90397.868	3.5	5P (5D)4F	1793.1541	-3.294	85495.304	2.5	4D (5D)6S	91070.547	2.5	5P (5D)4S
1750.6483	-4.681	100749.810	2.5	5S (3F)2F	95039.200	1.5	4P (3P)2P	1794.8478	-3.105	102394.718	3.5	6S (5D)4D	107964.700	4.5	2100D
1750.8240	-0.329	84938.180	1.5	4D (5D)6G	90648.217	0.5	5P (5D)6F	1796.1938	-3.119	90903.452	5.5	5S (3H)2H	104659.260	6.5	4SP(3I)4H
1752.7661	-3.649	100749.810	2.5	5S (3F)2F	95046.100	2.5	4P (3F)2F	1797.0091	-4.119	86710.837	1.5	4D (5D)4F	92274.120	2.5	4P (3P)4P
1753.4978	-1.192	84685.198	3.5	4D (5D)4D	90386.528	4.5	5P (5D)4F	1797.7038	-4.042	78577.280	4.5	D5S2(7S)2G	73016.147	3.5	4P (1G)2F
1753.6362	-4.941	99688.337	3.5	5S (3F)4F	93987.547	3.5	4SP(5D)6D	1800.3257	-2.204	84844.834	2.5	4D (5D)6G	90397.868	3.5	5P (5D)4D
1753.7095	-2.585	84938.180	1.5	4D (5D)6G	90638.822	2.5	5P (5D)4D	1800.3523	-4.307	85495.304	2.5	4D (5D)6S	91048.256	1.5	5P (5D)4D
1754.9852	-4.739	99332.102	4.5	5S (3H)2H	105028.600	3.5	4SP(3I)4H	1800.5028	-4.263	102334.112	2.5	6S (5D)6D	107886.600	3.5	2000D
1756.4578	-3.172	84938.180	1.5	4D (5D)6G	90629.902	1.5	4P (3P)4S	1800.9400	-4.880	57411.065	2.5	D5S2(7S)4F	62962.205	1.5	4P (3P)4D
1757.8597	-1.199	84710.685	3.5	4D (5D)6G	90397.868	3.5	5P (5D)4D	1801.4300	-1.882	84938.180	1.5	4D (5D)6G	90487.810	2.5	5P (5D)6F
1758.1778	-4.661	78185.030	3.5	D5S2(7S)2G	83871.184	4.5	4P (1F)2G	1801.5566	-1.705	103600.440	6.5	4D (3H)4H	109149.680	6.5	4SP(3I)2I
1758.8682	-2.901	84527.778	4.5	4D (5D)6G	90211.700	5.5	4P (3F)4G	1802.8240	-0.710	83308.194	2.5	4D (5D)6F	88853.533	3.5	5P (5D)6D
1759.0236	-4.399	78185.030	3.5	D5S2(7S)2G	83868.450	2.5	4P (1F)2D	1802.9683	-2.900	85048.602	1.5	4D (5D)4D	90593.497	1.5	5P (5D)6F
1759.0842	-3.764	88157.116	1.5	4D (5D)4F	93840.340	1.5	4SP(5D)6D	1804.6177	-2.768	90688.337	3.5	5S (3F)4F	94148.510	4.5	4SP(5G)4G
1759.2396	-3.454	86599.738	2.5	4D (5D)4F	92282.460	3.5	4SP(5G)4F	1804.7018	-0.837	84527.778	4.5	4D (5D)6G	90067.347	4.5	5P (5D)6F
1761.3718	-2.139	84710.685	3.5	4D (5D)6G	90386.528	4.5	5P (5D)4F	1804.7689	-3.607	84870.863	2.5	4D (5D)4D	79331.500	3.5	4SP(5S)6P
1761.8253	-3.249	86599.738	2.5	4D (5D)4F	92274.120	2.5	4P (3P)4P	1806.5267	-2.739	57411.065	2.5	D5S2(7S)4F	62945.038	3.5	4P (3D)4D
1761.9865	-4.076	88157.116	1.5	4D (5D)4F	93830.979	2.5	4SP(5D)6D	1806.7941	-4.856	78185.030	3.5	D5S2(7S)2G	72651.876	3.5	4P (3D)4D
1762.3685	-0.819	85495.304	2.5	4D (5D)6S	91167.937	3.5	5P (5D)6P	1808.0898	-0.148	85679.698	2.5	4D (5D)4D	91208.887	1.5	5P (5D)4F
1762.7921	-3.182	103600.440	6.5	4D (3H)4H	109271.710	5.5	4SP(3I)2I	1808.8042	-0.801	84870.863	2.5	4D (5D)4D	90397.868	3.5	5P (5D)4D
1764.2227	-1.449	85172.809	0.5	4D (5D)4D	90839.480	0.5	4P (3P)4F	1810.0579	0.153	84863.351	5.5	4D (5D)4G	90386.528	4.5	5P (5D)4F
1765.4284	-4.305	103608.909	4.5	5S (3G)2G	109271.710	5.5	4SP(3I)2I	1811.0832	-2.325	103751.660	5.5	4D (3H)4H	109271.710	5.5	4SP(3I)2I
1765.8029	-4.701	103118.400	1.5	6S (5D)4D	108780.000	3.5	2700D	1811.4675	-0.647	83812.316	2.5	4D (5D)6D	89331.195	1.5	5P (5D)6D
1765.9916	-4.237	60270.339	3.5	D5S2(7S)4D	65931.334	3.5	4P (3G)4G	1812.7413	-3.800	84527.778	4.5	4D (5D)6G	90042.779	4.5	4P (3F)4G
1766.3686	-0.754	83459.670	1.5	4D (5D)6F	89119.457	2.5	5P (5D)6D	1812.9698	-4.254	103265.694	0.5	6S (5D)4D	108780.000	1.5	2700D
1767.7106	-3.854	105291.010	3.5	4D (3F)4G	99635.520	3.5	4SP(3G)2G	1815.8752	-3.668	86710.837	1.5	4D (5D)4F	92216.320	1.5	4P (3P)2D
1767.7647	-0.727	84938.180	1.5	4D (5D)6G	90593.497	1.5	5P (5D)6F	1817.0677	-4.043	105155.090	4.5	4D (3F)4G	99653.220	4.5	4SP(3G)2G
1767.9220	-3.993	58631.531	4.5	D6S (1G)2G	64286.345	3.5	4P (3F)2F	1819.5457	-2.160	84131.563	0.5	4D (5D)6D	89625.940	1.5	4SP(5P)6P
1769.0181	-3.491	88189.030	0.5	4D (5D)4P	93840.340	1.5	4SP(5D)6D	1820.3723	-4.454	102394.718	3.5	6S (5D)4D	107886.600	3.5	2000D
1770.1260	-2.568	86710.837	1.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F	1822.3045	-3.446	60445.275	2.5	D5S2(7S)4D	65931.334	3.5	4P (3G)4G
1771.6308	-0.656	84844.834	2.5	4D (5D)6G	90487.810	2.5	5P (5D)6F								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1822.7567	-2.875	99332.102	4.5	5S (3H)2H	104816.800	5.5	4SP(3I)4H	1872.1655	-4.103	103936.600	5.5	5D (5D)6F	98596.650	4.5	4SP(5D)4F
1823.4509	-3.890	105291.010	3.5	4D (3F)4G	99808.400	3.5	4P (1G)2G	1872.2174	-1.091	84131.563	0.5	4D (5D)6D	89471.365	0.5	5P (5D)6D
1823.8860	-0.857	83990.063	1.5	4D (5D)6D	89471.365	0.5	5P (5D)6D	1875.6116	-3.741	103608.909	4.5	5S (3G)2G	98278.770	5.5	4P (1G)2H
1824.2924	-1.917	85728.806	1.5	4D (5D)4S	91208.887	1.5	5P (5D)4F	1876.2631	-4.736	102802.312	2.5	6S (5D)4D	108130.600	2.5	220DD
1824.9744	-1.174	83136.487	3.5	4D (5D)6F	88614.520	4.5	4SP(5P)6D	1879.3805	-1.268	85728.806	1.5	4D (5D)4S	91048.256	1.5	5P (5D)4D
1825.6380	-4.340	102802.312	2.5	6S (5D)4D	97326.270	1.5	4SP(3P)2P	1879.9781	-0.806	85462.862	3.5	4D (5D)4G	90780.621	3.5	5P (5D)4F
1825.8494	-2.891	85172.809	0.5	4D (5D)4D	90648.217	0.5	5P (5D)6F	1880.5135	-3.406	86812.316	2.5	4D (5D)6D	9128.561	3.5	4SP(5P)6P
1827.3405	-2.183	85728.806	1.5	4D (5D)4S	91199.746	0.5	5P (5D)4D	1880.5252	-3.508	86599.738	2.5	4D (5D)4F	91915.950	1.5	4SP(5D)6F
1828.6203	-4.491	101698.489	4.5	6S (5D)6D	107165.600	3.5	170DD	1883.7394	-4.879	83812.316	2.5	4D (5D)6D	89179.457	2.5	5P (5D)6D
1829.3400	-4.899	104000.810	3.5	5D (5D)6P	98535.850	3.5	4SP(5D)4F	1883.9918	-4.434	105063.550	5.5	4D (3F)4G	99757.120	4.5	4P (1G)2G
1831.9772	-4.274	85172.809	0.5	4D (5D)4D	90629.902	1.5	4P (3P)4S	1886.6234	-0.595	84326.912	2.5	4D (5D)6P	99625.940	1.5	4SP(1F)2G
1832.4144	-2.037	84844.834	2.5	4D (5D)6G	90300.625	3.5	5P (5D)6F	1888.4493	-3.298	78577.280	4.5	D5S2(7S)2D	83871.184	4.5	4P (1F)2G
1832.5542	-3.883	99573.225	4.5	5S (3F)4F	105028.600	3.5	4SP(3I)4H	1891.2944	-4.650	60270.339	3.5	D5S2(7S)4D	65556.280	4.5	4P (3H)2H
1832.8834	-2.203	83990.063	1.5	4D (5D)6D	89446.138	2.5	4SP(5P)6P	1891.5177	-3.640	85495.304	2.5	4D (5D)6S	90780.621	3.5	5P (5D)4F
1835.7358	-4.144	100492.020	3.5	5S (3F)2F	95046.400	2.5	4P (3P)2F	1893.8475	-4.424	57411.065	2.5	D5S2(7S)4F	62689.880	2.5	4P (3D)4D
1838.0011	-1.688	85048.602	1.5	4D (5D)4D	90487.810	2.5	5P (5D)6F	1896.5330	-1.057	103878.340	7.5	4D (3H)4I	109149.680	6.5	4SP(3I)2I
1838.3208	-1.669	85462.862	3.5	4D (5D)4G	90901.124	2.5	5P (5D)4P	1900.5961	-3.932	99368.909	4.5	5S (3G)2G	108868.980	4.5	4SP(3G)4H
1838.7854	-4.128	102802.312	2.5	6S (5D)4D	108239.200	3.5	240DD	1901.0331	-4.782	103312.402	4.5	5S (3H)2H	94073.240	3.5	4SP(5G)4G
1839.7579	-4.101	50187.813	3.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F	1903.0458	-4.138	103118.400	1.5	6S (5D)4D	108371.700	1.5	250DD
1839.7654	-3.714	78577.280	4.5	D5S2(7S)2G	73143.288	3.5	4P (1G)2G	1904.4368	-2.747	99688.337	3.5	5S (3F)4F	104937.800	4.5	4SP(3I)4H
1841.1986	-1.043	84870.863	2.5	4D (5D)4D	90300.625	3.5	5P (5D)6F	1906.5182	-3.882	86599.738	2.5	4D (5D)4F	91843.470	1.5	5P (5D)6F
1842.5774	-2.855	60270.339	3.5	D5S2(7S)4D	65696.038	4.5	4P (3G)4G	1906.5753	-3.050	99573.225	4.5	5S (3F)4F	104816.800	5.5	4SP(3I)4H
1842.6195	-4.460	84710.685	3.5	4D (5D)6G	79285.110	2.5	4SP(5S)6P	1911.2415	-1.081	82978.677	4.5	4D (5D)6F	88209.450	3.5	4SP(5P)6D
1842.9116	-3.398	99573.225	4.5	5S (3F)4F	94148.510	4.5	4SP(5G)4G	1914.6629	-2.042	103608.909	2.5	4D (5D)4G	90391.124	2.5	5P (5D)4D
1844.1201	-4.389	58666.258	3.5	D6S (1G)2G	64087.418	2.5	4P (3F)4G	1916.0746	-4.236	85679.698	4.5	5S (3G)2G	98391.330	3.5	4SP(5D)4D
1844.2807	-3.533	85172.809	0.5	4D (5D)4D	90593.497	1.5	5P (5D)6F	1917.7083	-0.577	85184.734	4.5	4D (5D)4G	90397.868	3.5	5P (5D)4D
1844.8582	-4.908	86599.738	2.5	4D (5D)4F	92018.729	2.5	4SP(5D)6F	1919.2782	-2.767	104066.670	6.5	4D (3H)4H	108809.310	5.5	4SP(3G)4H
1845.6743	-4.790	108648.695	6.5	5S (1I)2I	103232.100	7.5	4SP(3I)4I	1919.9527	-1.536	104066.670	6.5	4D (3H)4I	109271.710	5.5	4SP(3I)2I
1846.2094	-0.820	83713.536	3.5	4D (5D)6D	89128.561	3.5	4SP(5P)6P	1920.8454	-4.137	73637.340	1.5	D5S2(7S)4F	78841.960	0.5	4P (1D)2P
1846.3066	-4.994	103950.590	4.5	5D (5D)6F	98535.850	3.5	4SP(5D)4F	1920.8694	-3.031	99824.045	2.5	5S (3F)4F	105028.600	3.5	4SP(3I)4H
1847.1117	-3.589	100492.020	3.5	5S (3F)2F	95079.640	3.5	4P (3P)2F	1921.0758	-0.068	84863.351	5.5	4D (5D)4G	90067.347	4.5	5P (5D)6F
1848.1446	-4.482	58631.531	4.5	D6S (1G)2G	64040.886	3.5	4P (3F)4G	1921.8890	-0.753	85184.734	4.5	4D (5D)4G	90067.347	4.5	5P (5D)6F
1849.3186	-0.558	83713.536	3.5	4D (5D)6D	89119.457	2.5	5P (5D)6D	1921.9717	-1.268	84424.370	1.5	4D (5D)6P	89625.940	1.5	4SP(5P)6P
1849.3532	-4.289	85495.304	2.5	4D (5D)6S	90901.124	2.5	5P (5D)4P	1922.4038	-3.328	103608.909	4.5	5S (3G)2G	108809.310	5.5	4SP(3G)4H
1850.0948	-4.731	50157.452	4.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F	1922.6881	-0.753	84131.563	0.5	4D (5D)6D	89331.195	1.5	5P (5D)6D
1850.1235	-3.354	85495.304	2.5	4D (5D)6S	90898.873	1.5	4P (3P)4P	1923.0583	-3.509	73492.215	3.5	D5S2(7S)4F	78690.846	2.5	4P (1D)2D
1850.5934	-0.144	83726.364	4.5	4D (5D)6D	89128.561	3.5	4SP(5D)6P	1923.9291	-4.397	84527.778	4.5	4D (5D)6G	79331.500	3.5	4SP(5S)6P
1851.3162	-2.651	84685.198	3.5	4D (5D)4D	99757.120	4.5	4SP(5S)6P	1924.4398	-3.994	81734.750	3.5	D5S2(7S)2F	86929.649	3.5	4P (3P)4D
1852.0254	-2.204	103751.660	5.5	4D (3H)4H	109149.680	6.5	4SP(3I)2I	1928.6376	-3.628	99332.102	4.5	5S (3H)2H	94148.510	4.5	4SP(5G)4G
1852.0426	-3.642	105155.090	4.5	4D (3F)4G	99757.120	4.5	4P (1G)2G	1930.0913	-4.789	84710.685	3.5	4D (5D)6G	89890.373	3.5	4P (3F)4G
1852.3476	-3.317	102842.119	4.5	5S (3G)4G	108239.200	3.5	240DD	1930.1882	-4.100	84863.351	5.5	4D (5D)4G	90042.779	4.5	4P (3F)4G
1852.5824	-2.405	84527.778	4.5	4D (5D)6G	89924.175	5.5	5P (5D)6F	1930.1990	-4.658	99918.569	1.5	5S (3F)4F	94739.170	1.5	4SP(5P)4P
1854.4890	-0.950	85679.698	2.5	4D (5D)4G	91070.547	2.5	5P (5D)4F	1930.6459	-1.914	84424.370	1.5	4D (5D)6P	79246.170	1.5	4SP(5S)6P
1855.0262	-3.840	102802.312	2.5	6S (5D)4D	108191.600	1.5	230DD	1930.7570	-0.372	84266.556	3.5	4D (5D)6P	89444.458	2.5	4SP(3D)6P
1855.1298	-4.815	50142.786	2.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F	1931.4814	-0.436	85462.862	3.5	4D (5D)4G	90638.822	2.5	5P (5D)4D
1857.0740	-2.740	99573.225	4.5	5S (3F)4F	94189.880	5.5	4SP(5G)4G	1932.8415	-0.721	85728.806	1.5	4D (5D)4S	90901.124	2.5	5P (5D)4P
1857.4867	-1.376	84685.198	3.5	4D (5D)4D	90067.347	4.5	5P (5D)6F	1933.6830	-0.795	85728.806	1.5	4D (5D)4S	90898.873	1.5	4P (3P)4P
1858.3195	-2.427	102584.990	5.5	5S (3G)4G	107964.700	4.5	210DD	1934.1259	-4.809	78185.030	3.5	D5S2(7S)2G	73016.147	3.5	4P (1G)2F
1862.1891	-0.783	85679.698	2.5	4D (5D)4G	91048.256	1.5	5P (5D)4D	1935.4721	-3.836	102030.912	3.5	6S (5D)6D	107196.200	2.5	180DD
1863.5717	-3.103	99573.225	4.5	5S (3F)4F	104937.800	4.5	4SP(3I)4H	1935.6883	-3.868	101698.489	4.5	6S (5D)6D	106863.200	3.5	160DD
1864.2598	-4.028	84527.778	4.5	4D (5D)6G	89890.373	3.5	4P (3F)4G	1941.3797	-4.961	104630.430	1.5	5D (5D)6P	109780.000	1.5	280DD
1866.3247	-2.187	84710.685	3.5	4D (5D)6G	90067.347	4.5	5P (5D)6F	1943.3791	-4.475	97985.628	2.5	4D (5D)4P	93129.900	3.5	4P (3F)4D
1867.2735	-4.625	103950.590	4.5	5D (5D)6F	98596.650	3.5	4SP(5D)4F	1943.6640	-3.690	85495.304	2.5	4D (5D)6S	90638.822	2.5	5P (5D)4D
1867.3579	-2.950	84685.198	3.5	4D (5D)4D	79331.500	3.5	4SP(5S)6P	1944.1538	-3.143	99332.102	4.5	5S (3H)2H	94189.880	5.5	4SP(5G)4G
1869.2255	-3.267	84863.351	5.5	4D (5D)4G	90211.700	5.5	4P (3F)4G	1944.9954	-1.000	83713.536	3.5	4D (5D)6D	88853.530	3.5	5P (5D)6D
1871.5378	-0.795	85728.806	1.5	4D (5D)4S	91070.547	2.5	5P (5D)4F	1945.0378	-3.577	86710.837	1.5	4D (5D)4F	91850.722	0.5	4SP(5D)6F
1871.7512	-1.669	83990.063	1.5	4D (5D)6D	89331.195	1.5	5P (5D)6D	1945.2744	-2.048	84424.370	1.5	4D (5D)6P	79285.110	2.5	4SP(5S)6P
1872.0558	-3.371	99688.337	3.5	5S (3F)4F	105028.600	3.5	4SP(3I)4H	1945.3898	-4.774	99824.045	2.5	5S (3F)4F	94685.090	2.5	4SP(5D)6P

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
1947.0065	-4.171	102030.912	3.5	6S (5D)6D	107165.600	3.5	17ODD	2003.1524	-3.660	98130.131	6.5	5S (3H)4H	103120.900	6.5	4SP(3I)4I
1947.0406	-2.701	85495.304	2.5	4D (5D)6S	90629.902	1.5	4P (3P)4S	2006.9014	-0.291	84266.556	3.5	4D (5D)6P	79289.110	2.5	4SP(5S)6P
1947.7860	-4.711	19140.837	1.5	4D (5D)4F	18143.470	1.5	5P (5D)6P	2008.4924	-0.991	103751.160	5.5	4D (3H)4H	79829.160	6.5	4SP(3G)4H
1948.7291	-3.444	78185.030	3.5	D5S2(7S)2G	73054.881	2.5	4P (1G)2F	2009.3361	-4.172	104174.270	5.5	4D (3H)4I	109149.680	6.5	4SP(3I)2I
1949.0159	-0.524	83990.063	1.5	4D (5D)6D	89119.457	2.5	5P (5D)6D	2009.9946	-3.001	78577.280	4.5	D5S2(7S)2G	73603.500	5.5	4P (1I)2H
1949.2721	0.037	103600.440	6.5	4D (3H)4H	108729.160	6.5	4SP(3G)4H	2014.9081	-3.691	103608.909	4.5	5S (3G)2G	108570.560	4.5	4SP(3G)4G
1949.4253	-4.161	81639.260	2.5	D5S2(7S)2F	86767.577	2.5	4P (3P)4D	2015.9349	-1.306	85679.698	2.5	4D (5D)4D	90638.822	2.5	5P (5D)4D
1949.8617	-1.075	83726.364	4.5	4D (5D)6D	88853.533	3.5	5P (5D)6D	2017.0672	-0.621	104315.370	6.5	4D (3H)2K	109271.710	5.5	4SP(3I)2I
1951.6081	-4.520	102842.119	4.5	5S (3G)4G	107964.700	4.5	21ODD	2019.5675	-4.241	85679.698	2.5	4D (5D)4G	90629.902	1.5	4P (3P)4F
1952.5077	-3.400	78185.030	3.5	D5S2(7S)2G	83305.251	3.5	4P (1F)2G	2021.7165	-4.030	99093.452	5.5	5S (3H)2H	94148.510	4.5	4SP(5G)4G
1953.5283	-2.939	84326.912	2.5	4D (5D)6P	89444.458	2.5	4SP(5P)6P	2025.7665	-2.015	84266.556	3.5	4D (5D)6P	79331.500	3.5	4SP(5S)6P
1953.6145	-2.986	103751.160	5.5	4D (3H)4H	108868.680	4.5	4SP(3G)4H	2025.7870	-1.636	85462.862	3.5	4D (5D)4G	90397.868	3.5	5P (5D)4D
1954.1602	-0.168	85184.734	4.5	4D (5D)4G	103000.920	3.5	5P (5D)6F	2028.9080	-3.965	103265.164	0.5	6S (5D)4D	98338.280	1.5	4SP(5P)4S
1956.1550	-1.470	85728.806	1.5	4D (5D)4S	90839.480	0.5	4P (3P)4P	2029.8541	-4.961	99688.337	3.5	5S (3F)4F	94763.219	3.5	4SP(5D)6P
1957.2044	-4.698	50187.813	3.5	D6S (3F)4F	45079.879	2.5	4P (5D)4F	2030.4527	-2.361	85462.862	3.5	4D (5D)4G	90386.528	4.5	5P (5D)4F
1957.8268	-4.980	104863.430	5.5	5D (5D)4G	99757.120	4.5	4P (1G)2G	2030.6738	-4.025	103983.510	3.5	5S (3G)2G	108906.640	3.5	4SP(3G)4H
1957.9434	-3.709	103265.694	0.5	6S (5D)4D	108371.700	1.5	25ODD	2030.7715	-1.798	83136.487	3.5	4D (5D)6F	88059.380	2.5	4SP(5P)6D
1959.4926	-1.514	98130.131	6.5	5S (3H)4H	103232.100	7.5	4SP(3I)4I	2030.9749	-3.779	103118.400	1.5	6S (5D)4D	98196.000	1.5	4SP(5I)4F
1959.8945	-2.273	85679.698	2.5	4D (5D)4G	90780.621	3.5	5P (5D)4F	2034.5299	-1.437	85679.698	2.5	4D (5D)4G	90593.497	1.5	5P (5D)6F
1960.0552	-3.055	77230.900	4.5	D5S2(7S)2H	72130.390	4.5	4P (1G)2H	2034.6239	-3.537	87985.628	2.5	4D (5D)4F	92899.200	2.5	4P (3F)4D
1960.9440	-3.928	85495.304	2.5	4D (5D)6S	90593.497	1.5	5P (5D)6F	2036.0974	-1.112	85728.806	1.5	4D (5D)4S	90638.822	2.5	5P (5D)4D
1961.2235	-1.952	104174.270	5.5	4D (3H)4I	109271.710	5.5	4SP(3I)2I	2036.8383	-3.267	81639.270	2.5	D5S2(7S)2F	86547.490	2.5	4P (1F)2F
1963.6286	-4.453	73395.930	2.5	D5S2(7S)4F	78487.153	1.5	4P (1D)2D	2037.4216	-0.943	84424.360	1.5	4D (5D)6P	89331.195	1.5	5P (5D)6D
1966.0278	-1.763	104064.670	6.5	4D (3H)4I	109149.680	6.5	4SP(3I)2I	2038.7732	-4.243	99093.452	5.5	5S (3H)2H	94189.880	5.5	4SP(5G)4G
1966.0799	-4.182	99824.045	2.5	5S (3F)4F	94739.170	1.5	4SP(5P)4P	2039.1924	-4.990	85495.304	2.5	4D (5D)6S	90397.868	3.5	5P (5D)4D
1966.1089	-4.318	103983.510	3.5	5S (3G)2G	98898.710	3.5	4P (1G)2F	2039.7366	-2.231	83308.194	2.5	4D (5D)6F	88209.450	3.5	4SP(5P)6D
1966.3069	-3.114	102802.312	2.5	6S (5D)4D	107886.600	3.5	20ODD	2039.8031	-3.846	83728.806	1.5	4D (5D)4S	90629.902	1.5	4P (3P)4S
1967.6793	-1.871	84326.912	2.5	4D (5D)6P	79246.170	1.5	4SP(5S)6P	2039.8498	-0.812	83713.536	3.5	4D (5D)6D	88614.520	4.5	4SP(5P)6D
1970.6045	-4.469	103118.400	1.5	6S (5D)4D	108191.600	1.5	23ODD	2044.1600	-4.728	105291.010	3.5	4D (3F)4G	100400.360	2.5	4SP(3P)2D
1970.6593	-3.968	103608.909	4.5	5S (3G)2G	98535.850	3.5	4SP(5D)4F	2045.2030	-0.556	83726.364	4.5	4D (5D)6D	88614.520	4.5	4SP(5P)6D
1970.6966	-1.480	83136.487	3.5	4D (5D)6F	88209.450	3.5	4SP(5P)6D	2046.3274	-4.165	103983.510	3.5	5S (3G)2G	108868.980	4.5	4SP(3G)4H
1971.9673	-3.225	103265.694	0.5	6S (5D)4D	98196.000	1.5	4SP(5D)4F	2046.3596	-2.299	84131.563	0.5	4D (5D)6D	79246.170	1.5	4SP(5S)6P
1974.6108	-4.272	50142.786	2.5	D6S (3F)4F	45079.879	2.5	4P (5D)4F	2047.1822	-0.555	103600.440	6.5	4D (3H)4D	108483.870	5.5	4SP(3G)4G
1975.4235	-2.855	84863.351	5.5	4D (5D)4G	89924.175	5.5	5P (5D)6F	2047.5248	-0.997	85184.734	4.5	4D (5D)4G	90067.347	4.5	5P (5D)6F
1976.6632	-0.773	103751.160	5.5	4D (3H)4H	108809.310	5.5	4SP(3G)4H	2050.7387	-3.772	103608.909	4.5	5S (3G)2G	108483.870	5.5	4SP(3G)4G
1979.9191	-4.873	105449.540	3.5	5D (5D)4G	100400.360	2.5	4SP(3P)2D	2051.7875	-4.331	99318.569	1.5	5S (3F)4F	95046.100	2.5	4P (3F)2F
1980.8363	-0.840	84424.370	1.5	4D (5D)6P	89471.365	0.5	5P (5D)6D	2056.1683	-3.883	102334.112	2.5	6S (5D)6D	107196.200	2.5	18ODD
1981.8235	-2.502	102842.119	4.5	5S (3G)4G	107886.600	3.5	20ODD	2056.2034	-0.588	84266.556	3.5	4D (5D)6P	89128.561	3.5	4SP(5P)6P
1982.1555	-2.886	86124.301	4.5	4D (5D)4F	91167.937	3.5	5P (5D)6P	2060.0251	-4.857	50142.786	2.5	D6S (3F)4F	45289.801	1.5	4P (5D)4F
1982.8765	-2.735	84326.912	2.5	4D (5D)6P	79285.110	2.5	4SP(5S)6P	2060.0608	-1.858	84266.556	3.5	4D (5D)6P	89119.457	2.5	5P (5D)6D
1982.9001	-3.715	78185.030	3.5	D5S2(7S)2G	73143.288	3.5	4P (1G)2G	2060.9446	-0.085	103878.340	7.5	4D (3H)4I	108729.160	6.5	4SP(3G)4H
1983.1066	-0.473	83812.316	2.5	4D (5D)6D	88853.533	3.5	5P (5D)6D	2061.3725	-4.534	73637.150	1.5	4P (1F)2D	78487.150	1.5	4P (1F)2F
1984.4403	-4.660	99918.569	1.5	5S (3F)4F	94880.740	0.5	4SP(5P)4D	2064.0635	-4.853	81639.260	2.5	D5S2(7S)2F	86482.750	3.5	4P (1D)2D
1986.4126	-4.466	81734.750	3.5	D5S2(7S)2F	86767.577	2.5	4P (3P)4D	2066.5070	-0.918	85462.862	3.5	4D (5D)4G	90300.625	3.5	5P (5D)6F
1987.5409	-0.382	104119.710	7.5	4D (3H)2K	109149.680	6.5	4SP(3I)2I	2067.9831	-1.430	104315.370	6.5	4D (3H)2K	109149.680	6.5	4SP(3I)2I
1988.7286	-4.623	85184.734	4.5	4D (5D)4G	90211.700	5.5	4P (3F)4G	2068.7037	-4.751	79439.467	3.5	5S (5D)4D	74606.841	2.5	4P (3D)2D
1989.5272	-0.687	85462.862	3.5	4D (5D)4G	90487.810	2.5	5P (5D)6F	2068.8484	-3.478	102030.912	3.5	6S (5D)6D	106863.200	3.5	16ODD
1990.6234	-4.348	103608.909	4.5	5S (3G)2G	108631.090	3.5	4SP(3G)4G	2069.1909	-4.489	102334.112	2.5	6S (5D)6D	107165.600	3.5	17ODD
1991.4533	-1.190	84424.370	1.5	4D (5D)6P	89444.458	2.5	4SP(3P)6P	2071.3298	-1.609	98294.401	5.5	5S (3H)4H	103120.900	6.5	4SP(3I)4I
1992.8153	-4.967	84710.685	3.5	4D (5D)6P	89727.342	2.5	4P (3F)4G	2071.5448	-4.307	78577.280	4.5	D5S2(7S)2G	73751.982	4.5	4P (1I)2H
1994.5874	-3.681	103118.400	1.5	6S (5D)4D	108130.600	2.5	22ODD	2074.5961	-1.564	103751.160	5.5	4D (3H)4H	108570.560	4.5	4SP(3G)4G
1995.5174	-0.931	83713.536	3.5	4D (5D)6D	88723.400	4.5	5P (5D)6D	2077.2515	-4.349	81734.750	3.5	D5S2(7S)2F	86547.490	2.5	4P (1F)2F
1997.7429	-1.072	84326.912	2.5	4D (5D)6P	89331.195	1.5	5P (5D)6P	2078.4322	-4.209	99573.225	4.5	5S (3F)4F	94763.219	3.5	4SP(5D)6P
1998.1566	-4.102	99688.337	3.5	5S (3F)4F	94685.090	2.5	4SP(5D)6P	2079.2509	-1.418	85679.698	2.5	4D (5D)4G	90487.810	2.5	5P (5D)6F
2000.6402	-0.835	83726.364	4.5	4D (5D)6D	88723.400	4.5	5P (5D)6D	2080.4586	-3.923	85495.304	2.5	4D (5D)6S	90300.625	3.5	5P (5D)6F
2001.0426	-4.939	50075.910	1.5	D6S (3F)4F	45079.879	2.5	4P (5D)4F	2082.0496	-1.093	84326.912	2.5	4D (5D)6P	89128.561	3.5	4SP(5P)6P
2001.2906	-1.871	84326.912	2.5	4D (5D)6P	79331.500	3.5	4SP(5S)6P	2082.1220	-4.488	102394.718	3.5	6S (5D)4D	107196.200	2.5	18ODD
2002.4555	-3.685	85495.304	2.5	4D (5D)6S	90487.810	2.5	5P								

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
2088.8098	-4.354	50075.910	1.5	D6S (3F)4F	45289.801	1.5	4P (5D)4F	2192.8770	-2.812	82978.677	4.5	4D (5D)6F	87537.652	3.5	4SP(5C)6F	108729.160	6.5	4SP(3C)4H						
2090.9955	-3.611	84844.834	2.5	4D (5D)6G	89625.940	1.5	4SP(5P)6P	2194.8437	-3.336	104174.270	5.5	4D (3H)4I	109780.000	1.5	280DD	109780.000	1.5	280DD						
2091.4268	-4.168	103118.400	1.5	6S (5D)4D	98338.280	1.5	4SP(5P)4S	2197.3426	-4.541	105230.290	0.5	5D (5D)4D	105280.300	3.5	4SP(3I)4H	105280.300	3.5	4SP(3I)4H						
2097.9804	-4.221	98568.912	3.5	5S (3H)4H	103334.100	2.5	2SP(3D)2F	2203.7023	-4.079	100492.020	3.5	5S (3F)2F	102980.300	5.5	4SP(3I)4H	102980.300	5.5	4SP(3I)4H						
2098.1112	-4.243	103608.909	4.5	5S (3G)2C	108373.800	3.5	260DD	2204.5186	-1.695	98445.400	4.5	5S (3H)4H	102860.200	5.5	5P (5D)6D	89471.365	0.5	5P (5D)6D						
2098.6182	-2.744	103118.400	1.5	6S (5D)4D	98354.660	2.5	4SP(5D)4F	2205.3527	-4.291	84938.180	1.5	4D (5D)6G	106863.200	3.5	160DD	106863.200	3.5	160DD						
2100.5936	-3.175	84685.198	3.5	4D (5D)4D	89444.458	2.5	4SP(5P)6P	2207.3476	-2.189	102334.112	2.5	6S (5D)6D	79285.110	2.5	4SP(5S)6P	79285.110	2.5	4SP(5S)6P						
2100.7066	-3.378	85728.806	1.5	4D (5D)4S	90487.810	2.5	5P (5D)6F	2208.2652	-2.189	83812.316	2.5	4D (5D)6D	94073.240	3.5	4SP(5C)4G	94073.240	3.5	4SP(5C)4G						
2102.4415	-2.677	84870.863	2.5	4D (5D)4D	89625.940	1.5	4SP(5P)6P	2208.5506	-1.283	84326.912	2.5	4D (5D)6P	102951.500	4.5	4SP(3I)4H	102951.500	4.5	4SP(3I)4H						
2103.9782	-4.791	86416.333	3.5	4D (5D)4F	91167.937	3.5	5P (5D)6P	2218.6085	-3.147	98445.400	4.5	5S (3H)4H	91208.887	1.5	5P (5D)4F	91208.887	1.5	5P (5D)4F						
2104.1633	-2.745	83308.194	2.5	4D (5D)6F	88059.380	2.5	4SP(5P)6D	2222.4290	-0.620	86710.837	1.5	4D (5D)4F	95995.690	2.5	4SP(5P)4D	95995.690	2.5	4SP(5P)4D						
2105.5752	-3.102	81734.750	3.5	D5S2(7S)2F	86482.750	3.5	4SP(5P)6P	2223.4493	-4.608	100492.020	3.5	5S (3F)2F	88209.450	3.5	4SP(5P)6D	88209.450	3.5	4SP(5P)6D						
2107.0664	-0.245	104064.670	6.5	4D (3H)4I	108809.310	5.5	4SP(3G)4H	2223.6350	-1.333	83713.536	3.5	4D (5D)6D	94073.240	3.5	4SP(5C)4G	94073.240	3.5	4SP(5C)4G						
2107.1707	-4.474	99824.045	2.5	5S (3F)4F	95079.640	3.5	4P (3F)2F	2223.7547	-4.103	80568.912	3.5	5S (3H)4H	108809.310	5.5	4SP(3C)4H	108809.310	5.5	4SP(3C)4H						
2107.3981	-2.770	83990.063	1.5	4D (5D)6D	79246.170	1.5	4SP(5S)6P	2223.8130	-3.287	103265.694	0.5	6S (5D)4D	98770.140	1.5	4SP(5D)4D	98770.140	1.5	4SP(5D)4D						
2107.5199	-4.545	73393.745	4.5	D5S2(7S)4F	78137.364	3.5	4P (1D)2F	2224.6117	-2.315	104315.370	6.5	4D (3H)2K	108809.310	5.5	4SP(3C)4H	108809.310	5.5	4SP(3C)4H						
2108.9083	-4.930	57411.065	2.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4F	2225.0336	-0.996	82978.677	4.5	4D (5D)6F	87471.765	4.5	4SP(5C)6F	87471.765	4.5	4SP(5C)6F						
2109.3777	-4.301	85184.734	4.5	4D (5D)4G	89924.175	5.5	5P (5D)6F	2226.3685	-3.715	88157.116	1.5	4D (5D)4P	92647.510	1.5	4P (3F)4F	92647.510	1.5	4P (3F)4F						
2109.8857	-4.229	98445.400	4.5	5S (3H)4H	103183.700	3.5	4SP(3D)2F	2227.1050	-0.523	86710.837	1.5	4D (5D)4F	91199.746	0.5	5P (5D)4D	91199.746	0.5	5P (5D)4D						
2111.9034	-3.073	84710.685	3.5	4D (5D)6G	89444.458	2.5	4SP(5P)6P	2227.8912	-0.912	82853.658	5.5	4D (5D)6F	87340.983	5.5	4SP(5C)6F	87340.983	5.5	4SP(5C)6F						
2112.6009	-0.430	103751.660	5.5	4D (3H)4H	108483.870	5.5	4SP(3G)4G	2228.3699	-3.687	84844.834	2.5	4D (5D)6G	89331.195	1.5	5P (5D)6D	89331.195	1.5	5P (5D)6D						
2114.4951	-3.917	78577.280	4.5	D5S2(7S)2G	83305.251	3.5	4P (1F)2G	2229.1500	-0.249	86416.333	2.5	4D (5D)4P	90901.124	2.5	5P (5D)4P	90901.124	2.5	5P (5D)4P						
2114.7460	-4.959	105127.770	2.5	5D (5D)4D	100400.360	2.5	4SP(3P)2D	2229.9977	-2.478	83726.364	4.5	4D (5D)6D	88209.450	3.5	4SP(5P)6D	88209.450	3.5	4SP(5P)6D						
2117.5864	-2.077	98130.131	6.5	5S (3H)4H	102851.200	7.5	4SP(3I)4K	2231.1275	-1.974	83812.316	2.5	4D (5D)6D	79331.500	3.5	4SP(5S)6P	79331.500	3.5	4SP(5S)6P						
2118.8875	-3.398	85679.698	2.5	4D (5D)4G	90397.868	3.5	4P (5D)4D	2236.1214	-1.235	86599.738	2.5	4D (5D)4F	91070.500	2.5	4SP(5P)6P	91070.500	2.5	4SP(5P)6P						
2120.5212	-4.249	57411.065	2.5	D5S2(7S)4F	62125.600	1.5	4P (3P)2D	2236.3660	-2.523	100749.810	2.5	5S (3F)2F	96279.490	2.5	4SP(3C)2F	96279.490	2.5	4SP(3C)2F						
2122.4732	-3.618	103608.909	4.5	5S (3G)2C	98898.110	3.5	4P (1G)2F	2239.5161	-4.344	102802.312	2.5	6S (5D)4D	88233.280	1.5	4SP(5P)4S	88233.280	1.5	4SP(5P)4S						
2124.8398	-2.034	83990.063	1.5	4D (5D)6D	79285.110	2.5	4SP(5S)6P	2243.1280	-1.807	84266.556	3.5	4D (5D)6P	88723.400	4.5	5P (5D)6D	88723.400	4.5	5P (5D)6D						
2129.3048	-1.616	84424.370	1.5	4D (5D)6P	89119.457	2.5	5P (5D)6D	2246.1797	-3.968	102842.119	4.5	5S (3G)4G	98391.330	3.5	4SP(5D)4D	98391.330	3.5	4SP(5D)4D						
2129.4758	-0.295	104174.270	5.5	4D (3H)4I	108868.980	4.5	4SP(3G)4H	2247.3263	-0.330	86599.738	2.5	4D (5D)4F	91048.256	1.5	5P (5D)4D	91048.256	1.5	5P (5D)4D						
2132.6329	-4.682	84938.180	1.5	4D (5D)6G	89625.940	1.5	4SP(5P)6P	2247.7639	-3.398	102802.312	2.5	6S (5D)4D	104937.800	4.5	4SP(3I)4H	104937.800	4.5	4SP(3I)4H						
2133.4799	-3.207	98294.401	5.5	5S (3H)4H	102980.300	5.5	4SP(3I)4I	2248.7104	-3.924	100492.020	3.5	5S (3F)2F	104937.800	4.5	4SP(3I)4H	104937.800	4.5	4SP(3I)4H						
2143.2721	-2.672	104064.670	6.5	4D (3H)4I	108729.160	6.5	4SP(3G)4H	2249.9336	-1.790	84685.198	3.5	4D (5D)4D	89128.561	3.5	4SP(5P)6P	89128.561	3.5	4SP(5P)6P						
2144.4711	-3.675	87985.628	2.5	4D (5D)4F	92647.510	1.5	4P (3F)4D	2252.4241	-2.323	83459.670	1.5	4D (5D)6F	87898.120	0.5	4SP(5C)6F	87898.120	0.5	4SP(5C)6F						
2146.1478	-4.587	57493.321	1.5	D5S2(7S)4F	62151.561	2.5	4P (3F)4D	2252.4241	-2.323	83459.670	1.5	4D (5D)6F	87898.120	0.5	4SP(5C)6F	87898.120	0.5	4SP(5C)6F						
2146.9700	-2.128	83308.194	2.5	4D (5D)6F	87964.650	1.5	4SP(5P)6D	2254.5530	-4.080	84685.198	3.5	4D (5D)6F	87898.120	0.5	4SP(5C)6F	87898.120	0.5	4SP(5C)6F						
2147.0327	-0.116	86124.301	4.5	4D (5D)4F	90780.621	3.5	5P (5D)4F	2257.5226	-3.250	83713.536	3.5	4D (5D)6G	88723.400	4.5	5P (5D)6D	88723.400	4.5	5P (5D)6D						
2147.8926	-3.889	57411.065	2.5	D5S2(7S)4F	62065.521	3.5	4P (3F)4F	2258.4691	-2.046	2258.4691	-2.046													
2148.0042	-0.648	86416.333	3.5	4D (5D)4F	91070.547	2.5	5P (5D)4F	2260.4132	-4.996	85048.602	1.5	4D (5D)4D	89471.365	0.5	5P (5D)6D	89471.365	0.5	5P (5D)6D						
2148.7716	-4.110	102543.648	1.5	6S (5D)6D	107196.200	2.5	180DD	2261.6205	-4.948	98568.912	3.5	5S (3H)4H	94148.510	4.5	4SP(5C)4G	94148.510	4.5	4SP(5C)4G						
2151.9223	-4.724	103983.510	3.5	5S (3G)2C	108629.250	2.5	4SP(3G)4G	2262.2356	-1.140	104064.670	6.5	4D (3H)4I	108483.870	5.5	4SP(3G)4G	108483.870	5.5	4SP(3G)4G						
2152.1961	-3.348	73492.215	3.5	D5S2(7S)4F	78137.364	3.5	4P (1D)2F	2262.9136	-4.832	84710.685	3.5	4D (5D)6G	89128.561	3.5	4SP(5P)6P	89128.561	3.5	4SP(5P)6P						

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
2286.5750	-2.393	98445.400	4.5	5S (3H)4H	94073.240	3.5	4SP(5G)4G	2372.9355	-3.061	103751.660	5.5	4D (3H)4H	107964.700	4.5	210DD
2289.8956	-2.780	105414.180	2.5	4D (3F)4G	109780.000	1.5	280DD	2373.2227	-3.468	100492.020	3.5	5S (3F)2F	96279.490	2.5	4SP(3G)2F
2290.6994	-1.409	86416.333	3.5	4D (5D)4F	90780.621	3.5	5P (5D)4F	2375.6872	-1.775	105063.550	5.5	4D (3F)4G	109271.710	5.5	4SP(3I)2I
2291.2244	-4.754	102802.312	2.5	6S (5D)4D	107165.600	3.5	170DD	2377.2645	-4.971	102543.648	1.5	6S (5D)6D	98338.280	1.5	4SP(5P)4S
2291.7402	-1.601	82978.677	4.5	4D (5D)6F	87340.983	5.5	4SP(5G)6F	2379.4565	-4.811	88157.116	1.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F
2293.0737	-3.837	98130.131	6.5	5S (3H)4H	102489.900	6.5	4SP(3I)4K	2382.7866	-2.700	84527.778	4.5	4D (5D)6G	88723.400	4.5	5P (5D)6D
2293.1048	-1.835	86710.837	1.5	4D (5D)4F	91070.547	2.5	5P (5D)4F	2382.8565	-2.306	98294.401	5.5	5S (3H)4H	102489.900	6.5	4SP(3I)4K
2295.1679	-4.699	103608.909	4.5	5S (3G)2G	107964.700	4.5	210DD	2385.8204	-4.298	86710.837	1.5	4D (5D)4F	90901.124	2.5	5P (5D)4P
2299.1431	-3.081	103118.400	1.5	6S (5D)4D	98770.140	1.5	4SP(5D)4D	2386.5602	-4.838	102543.648	1.5	6S (5D)6D	98354.660	2.5	4SP(5D)4F
2299.2858	-3.766	103983.510	3.5	5S (3G)2G	99635.520	3.5	4SP(3G)2G	2387.1027	-1.816	86710.837	1.5	4D (5D)4F	90898.873	1.5	4P (3P)4F
2299.2996	-1.572	84266.556	3.5	4D (5D)6P	88614.520	4.5	4SP(5P)6D	2391.1868	-1.889	86599.738	2.5	4D (5D)4F	90780.621	3.5	5P (5D)4F
2299.9153	-4.063	73395.930	2.5	D5S2(7S)4F	77742.730	2.5	4P (1D)2F	2393.7971	-3.650	86124.301	4.5	4D (5D)4F	90300.625	3.5	5P (5D)6F
2300.4212	-2.009	83713.536	3.5	4D (5D)6D	88059.380	2.5	4SP(5P)6D	2393.8395	-3.314	83459.670	1.5	4D (5D)6F	87635.920	0.5	4SP(5P)6D
2301.2590	-3.840	87985.628	2.5	4D (5D)4P	92329.890	2.5	4SP(5G)4F	2394.4931	-3.924	103983.510	3.5	5S (3G)2G	99808.400	3.5	4P (1G)2G
2303.7418	-3.325	83538.540	0.5	4D (5D)6F	87898.120	0.5	4SP(5G)6F	2394.8086	-3.299	83459.670	1.5	4D (5D)4F	92825.810	2.5	4SP(5S)6F
2304.8896	-4.593	86710.837	1.5	4D (5D)4F	91048.256	1.5	5P (5D)4D	2395.8336	-4.090	88157.116	1.5	4D (5D)4F	92329.890	2.5	4SP(5G)4F
2306.0279	-1.378	83136.487	3.5	4D (5D)6F	87471.765	4.5	4SP(5G)6F	2397.6688	-4.957	88189.030	0.5	4D (5D)4F	92358.610	1.5	4SP(5G)4F
2308.6841	-4.356	103983.510	3.5	5S (3G)2G	99635.520	4.5	4SP(3G)2G	2398.2901	-4.206	104315.370	6.5	4D (3H)2K	108483.570	5.5	4SP(3G)4G
2311.1045	-3.464	84527.778	4.5	4D (5D)6G	88853.533	3.5	5P (5D)6D	2398.3850	-4.375	84685.198	3.5	4D (5D)4D	88853.533	3.5	5P (5D)6D
2312.3201	-3.872	102842.119	4.5	5S (3G)4G	107165.600	3.5	170DD	2400.7487	-4.204	102842.119	4.5	5S (3G)4G	107006.350	4.5	4SP(3I)2H
2315.4214	-1.611	84296.830	5.5	4D (5D)6G	88614.520	4.5	4SP(5P)6D	2404.1232	-4.649	85172.809	0.5	4D (5D)4D	89331.195	1.5	5P (5D)6D
2318.2779	-3.937	83538.540	0.5	4D (5D)6F	79246.170	1.5	4SP(3G)6P	2407.5374	-1.004	88157.116	1.5	4D (5D)4P	92314.758	0.5	5P (5D)4P
2319.7679	-2.411	104174.270	5.5	4D (3H)4I	108483.870	5.5	4SP(3G)4G	2408.5672	-2.232	83812.316	2.5	4D (5D)6D	87964.650	1.5	4SP(5P)6D
2321.5623	-2.428	102842.119	4.5	5S (3G)4G	98535.850	3.5	4SP(5D)4F	2408.4769	-3.023	99918.569	1.5	5S (3F)4F	95767.700	0.5	4SP(5P)4D
2324.1978	-1.770	86599.738	2.5	4D (5D)4F	90901.124	2.5	5P (5D)4F	2410.6716	-4.255	103983.510	3.5	5S (3G)2G	108130.600	2.5	220DD
2325.4147	-0.916	86599.738	2.5	4D (5D)4F	90898.873	1.5	4P (3P)4P	2411.3688	-2.308	98294.401	5.5	5S (3H)4H	94148.510	4.5	4SP(5G)4G
2325.7280	-3.801	85172.809	0.5	4D (5D)4D	89471.365	0.5	5P (5D)6D	2413.1400	-3.272	84710.685	3.5	4D (5D)6G	88853.533	3.5	5P (5D)6D
2326.4554	-2.790	102802.312	2.5	6S (5D)4D	98505.100	2.5	4SP(5D)4D	2413.2961	-1.883	83459.670	1.5	4D (5D)6F	87602.250	1.5	4SP(5G)6F
2326.6297	-4.087	98445.400	4.5	5S (3H)4H	94148.510	4.5	4SP(5G)4G	2415.2026	-4.523	77230.900	4.5	D5S2(7S)2H	73091.590	4.5	4P (1G)2G
2328.1652	-3.391	83308.194	2.5	4D (5D)6F	87602.250	1.5	4SP(5G)6F	2417.6849	-2.438	100492.020	3.5	5S (3F)2F	96356.960	3.5	4SP(3G)2F
2331.1859	-3.273	87985.628	2.5	4D (5D)4P	92274.120	2.5	4P (3P)4P	2420.2743	-0.906	85495.304	2.5	4D (5D)6S	89625.940	1.5	4SP(5P)6P
2333.7790	-4.669	84844.834	2.5	4D (5D)6G	84844.834	2.5	4SP(5P)6P	2421.4426	-1.890	88710.837	1.5	4D (5D)4F	90839.480	0.5	4P (3P)4P
2334.3969	-3.332	85048.602	1.5	4D (5D)4D	89331.195	1.5	5P (5D)6D	2423.1535	-1.908	88189.030	0.5	4D (5D)4F	92314.758	0.5	5P (5D)4P
2336.4717	-3.386	100749.810	2.5	5S (3F)2F	105028.600	3.5	4SP(3I)4H	2428.2882	-3.617	88157.116	1.5	4D (5D)4P	92274.120	2.5	4P (3P)4P
2337.0720	-4.043	103608.909	4.5	5S (3G)2G	107886.600	3.5	200DD	2428.5147	-4.409	103155.090	4.5	4D (3F)4G	109271.710	5.5	4SP(3I)2I
2338.7494	-4.058	84844.834	2.5	4D (5D)6G	89119.457	2.5	5P (5D)6D	2430.7934	-1.605	83459.670	1.5	4D (5D)6F	87572.431	2.5	4SP(5G)6F
2338.7620	-4.555	100492.020	3.5	5S (3F)2F	96217.420	3.5	4SP(5P)4D	2432.0121	-3.516	103118.400	1.5	6S (5D)4D	99007.700	0.5	4SP(5D)4D
2339.3273	-0.360	86194.301	4.5	4D (5D)4F	90397.868	3.5	5P (5D)4D	2435.2663	-4.375	102584.963	5.5	5S (3G)4G	106690.170	5.5	4SP(3I)2H
2343.2230	-2.909	102802.312	2.5	6S (5D)4D	98535.850	3.5	4SP(5D)4F	2435.6733	-4.271	98294.401	5.5	5S (3H)4H	94189.880	5.5	4SP(5G)4G
2344.3396	-4.293	88189.030	0.5	4D (5D)4P	92453.460	0.5	4P (3F)4D	2445.7488	-4.155	77230.900	4.5	D5S2(7S)2H	73143.288	3.5	4P (1G)2G
2344.4457	-1.539	83308.194	2.5	4D (5D)6F	87372.431	2.5	4SP(5G)6F	2446.2695	-2.779	84527.778	4.5	4D (5D)6G	88614.520	4.5	4SP(5P)6D
2345.5513	-0.650	86124.301	4.5	4D (5D)4F	90386.528	4.5	5P (5D)4F	2446.6359	-2.767	103063.550	5.5	4D (3F)4G	109149.680	6.5	4SP(3I)2I
2347.8831	-3.380	103265.694	0.5	6S (5D)4D	99007.700	0.5	4SP(5D)4D	2451.6338	-4.439	103118.400	1.5	6S (5D)4D	107196.200	2.5	180DD
2348.0463	-3.276	84870.863	2.5	4D (5D)4D	89128.561	3.5	4SP(5P)6P	2451.8863	-2.127	83558.540	0.5	4D (5D)6F	87635.920	0.5	4SP(5P)6D
2349.1542	-4.951	103983.510	3.5	5S (3G)2G	108239.200	3.5	240DD	2455.0173	-4.966	104411.690	4.5	5D (5D)6D	108483.870	5.5	4SP(3G)4G
2349.2480	-4.876	98445.400	4.5	5S (3H)4H	94189.880	5.5	4SP(5G)4G	2455.4412	-1.805	86416.333	3.5	4D (5D)4F	90487.810	2.5	5P (5D)6F
2350.7395	-3.873	100492.020	3.5	5S (3F)2F	96239.200	4.5	4SP(3G)2H	2456.7445	-2.068	83990.063	1.5	4D (5D)6D	88059.380	2.5	4SP(5P)6D
2350.9374	-4.598	99332.102	4.5	5S (3H)2H	95079.640	3.5	4P (3F)2F	2457.2850	-2.918	88157.116	1.5	4D (5D)4P	92225.538	1.5	5P (5D)4P
2353.9254	-2.302	83812.316	2.5	4D (5D)6D	89119.457	2.5	5P (5D)6D	2461.1554	-3.755	83308.194	2.5	4D (5D)6F	79246.170	1.5	4SP(5S)6P
2354.8098	-3.588	102842.119	4.5	5S (3G)4G	98596.650	4.5	4SP(5D)4F	2462.0676	-3.439	99918.569	1.5	6S (5D)6D	106863.200	3.5	160DD
2357.8972	-2.353	87985.628	2.5	4D (5D)4P	92225.538	1.5	5P (5D)4P	2470.9644	-3.873	98294.401	5.5	5S (3H)4H	102340.300	5.5	4SP(3I)4K
2363.7241	-1.399	83308.194	2.5	4D (5D)6F	87537.652	3.5	4SP(5G)6F	2472.3020	-1.975	83558.540	0.5	4D (5D)6F	87602.250	1.5	4SP(5G)6F
2365.4400	-3.918	103983.510	3.5	5S (3G)2G	99757.120	4.5	4P (1G)2G	2474.5368	-4.102	102394.718	3.5	6S (5D)4D	98354.660	2.5	4SP(5D)4F
2367.6254	-0.869	86416.333	3.5	4D (5D)4F	90638.822	2.5	5P (5D)4D	2475.1335	-0.887	86599.738	2.5	4D (5D)4P	90638.822	2.5	5P (5D)4D
2371.9710	-4.458	773016.147	3.5	4P (1G)2F	773016.147	3.5	4P (1G)2F	2475.4620	-4.958	102543.648	1.5	6S (5D)6D	98505.100	2.5	4SP(5D)4D
2372.6764	-3.451	83459.670	1.5	4D (5D)6F	79246.170	1.5	4SP(5S)6P	2475.6741	-2.672	84685.198	3.5	4D (5D)4D	88723.400	4.5	5P (5D)6D

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
2737.8559	-4.119	85679.698	2.5	4D (5D)4G	89331.195	1.5	5P (5D)6D	2931.3579	-2.113	105398.852	5.5	4D (3F)4H	108809.310	5.5	4SP(3G)4H
2738.2181	-2.271	86416.333	3.5	4D (5D)4F	90067.347	4.5	5P (5D)6F	2932.7432	-4.648	99688.337	3.5	5S (3F)4F	96279.490	2.5	4SP(3G)2F
2740.3317	-4.314	99332.102	4.5	5S (3H)2H	102980.300	5.5	4SP(3I)4I	2934.2685	-4.200	99573.225	4.5	5S (3F)4F	102980.300	5.5	4SP(3I)4I
2741.0989	-2.579	82978.677	4.5	4D (5D)6F	79331.500	3.5	4SP(5F)6F	2942.5891	-4.048	103608.909	4.5	5S (3G)2G	107006.330	4.5	4SP(3I)2H
2742.0913	-4.379	83990.063	1.5	4D (5D)6F	87635.920	0.5	4SP(5F)6F	2943.4494	-4.499	99093.452	5.5	5S (3H)2H	102489.900	6.5	4SP(3I)4K
2746.8189	-3.529	102030.912	3.5	6S (5D)6D	98391.330	3.5	4SP(5D)4D	2948.4645	-3.813	85462.862	3.5	4D (5D)4G	88853.533	3.5	5P (5D)6D
2747.1986	-4.308	99918.569	1.5	5S (3F)4F	96279.490	2.5	4SP(3G)2F	2948.4819	-3.363	85728.870	1.5	4D (5D)4S	89119.457	2.5	4P (5D)6D
2748.2113	-3.082	84326.912	2.5	4D (5D)6F	87964.450	1.5	4SP(5F)6D	2952.1744	-2.599	105763.270	5.5	4D (3F)2H	109149.680	6.5	4SP(3I)2I
2750.2738	-2.693	84424.370	1.5	4D (5D)6F	88059.380	2.5	4SP(5F)6D	2955.8675	-1.514	105524.461	4.5	4D (3F)4H	108906.640	3.5	4SP(3G)4H
2751.0608	-1.090	85495.304	2.5	4D (5D)6F	89128.561	3.5	4SP(5F)6D	2962.8731	-4.528	84685.198	3.5	4D (5D)4D	88059.380	2.5	4SP(5F)6D
2756.4036	-4.516	77230.900	4.5	D5S2(7S)2H	2965.2916	-3.900	104593.270	2965.2916	-3.900	104593.270	5.5	5D (5D)6G	107964.700	4.5	4SP(5F)6D
2758.5129	-1.949	85495.304	2.5	4D (5D)6S	89119.457	2.5	5P (5D)6D	2970.1016	-4.440	104873.230	3.5	5D (5D)4D	108239.200	3.5	240DD
2761.3419	-4.766	104863.430	5.5	5D (5D)4G	108483.870	5.5	4SP(3G)4G	2970.2340	-3.653	105414.180	2.5	4D (3F)4G	108780.000	1.5	270DD
2765.0154	-1.943	105291.010	3.5	4D (3F)4G	108906.640	3.5	4SP(3G)4H	2970.2870	-4.574	98445.400	4.5	5S (3H)4H	95079.640	3.5	4P (3F)2F
2765.7888	-2.311	83726.364	4.5	4D (5D)6D	87340.983	5.5	4SP(5G)6F	2971.2969	-3.308	84844.834	2.5	4D (5D)6G	88209.440	3.5	4SP(5F)6D
2767.6509	-2.345	83990.063	1.5	4D (5D)6D	87602.250	1.5	4SP(5G)6F	2975.8926	-4.265	105211.140	4.5	5D (5D)4G	108570.560	4.5	4SP(3G)4G
2768.9633	-4.635	99573.225	4.5	5S (3F)4F	103183.700	3.5	4SP(3D)2F	2976.9480	-1.863	85495.304	2.5	4D (5D)6S	88853.533	3.5	5P (5D)6D
2771.9191	-4.729	99824.045	2.5	5S (3F)4F	96217.420	3.5	4SP(5F)4D	2979.0983	-2.651	99573.225	4.5	5S (3F)4F	96217.420	3.5	4SP(5F)4D
2775.1786	-3.141	85728.806	1.5	4D (5D)4S	89331.195	1.5	5P (5D)6D	2985.4236	-1.452	84710.685	3.5	4D (5D)6G	88059.380	2.5	4SP(5F)6D
2778.4326	-4.163	105211.140	4.5	5D (5D)4G	108809.310	5.5	4SP(3G)4H	2989.1512	-2.175	105524.461	4.5	4D (3F)4H	108868.980	4.5	4SP(3G)4H
2780.4100	-4.589	60445.275	2.5	D5S2(7S)4D	64040.886	3.5	4P (3F)4G	2993.1238	-1.131	105291.010	3.5	4D (3F)4G	108631.090	3.5	4SP(3G)4G
2785.1350	-2.953	87985.628	2.5	4D (5D)4P	91575.139	2.5	5P (5D)6F	2994.4623	-3.609	84870.863	2.5	4D (5D)4D	88209.450	3.5	4SP(5F)6D
2790.0793	-4.166	103983.510	3.5	5S (3G)2G	100400.360	2.5	4SP(3F)2D	2994.7736	-2.674	105291.010	3.5	4D (3F)4G	108629.200	2.5	4SP(3G)4G
2794.6884	-2.308	83990.063	1.5	4D (5D)6D	87572.431	2.5	4SP(5G)6F	2998.5597	-2.984	99573.225	4.5	5S (3F)4F	96239.200	4.5	4SP(3G)2H
2799.1187	-2.240	105291.010	3.5	4D (3F)4G	108868.980	4.5	4SP(3G)4H	3000.9432	-4.034	99688.337	3.5	5S (3F)4F	96356.960	3.5	4SP(3G)2H
2805.0930	-4.715	102334.112	2.5	6S (5D)6D	98770.140	1.5	4SP(5D)4D	3001.9064	-4.715	105398.852	5.5	4D (3F)4H	108729.160	6.5	4SP(3G)4H
2816.3633	-4.498	105230.320	1.5	5D (5D)4D	108780.000	1.5	270DD	3003.2844	-1.455	105155.090	4.5	4D (3F)4G	108483.870	5.5	4SP(3G)4G
2822.5208	-4.012	57493.321	1.5	D5S2(7S)4D	61035.287	0.5	4P (3F)4P	3013.7504	-2.093	105589.420	3.5	4D (3F)4H	108906.640	3.5	4SP(3G)4H
2823.8650	-2.493	84424.370	1.5	4D (5D)6P	87964.650	1.5	4SP(5F)6D	3024.0929	-3.725	84266.556	3.5	4D (5D)6P	87572.431	2.5	4SP(5G)6F
2825.1530	-3.695	85184.734	4.5	4D (5D)4D	88723.400	4.5	5P (5D)6D	3043.4498	-4.910	105524.461	4.5	4D (3F)4H	108809.310	5.5	4SP(3G)4H
2829.0592	-4.584	104705.420	3.5	5D (5D)6D	108239.200	3.5	240DD	3052.2875	-3.477	84326.912	2.5	4D (5D)6P	87602.250	1.5	4SP(5G)6F
2835.4526	-4.977	102030.912	3.5	6S (5D)6D	98505.100	2.5	4SP(5D)4D	3051.7731	-4.777	105630.750	2.5	5D (5D)4G	108906.640	3.5	4SP(3G)4G
2837.8673	-4.257	98568.912	3.5	5S (3H)4H	95046.100	2.5	4P (3F)2F	3054.7198	-4.259	105211.140	4.5	4D (5D)6P	87602.250	1.5	4SP(5G)6F
2839.7608	-1.255	105288.847	6.5	4D (3F)4H	108809.310	5.5	4SP(3G)4H	3056.2457	-3.268	84266.556	3.5	4D (5D)6P	87537.652	3.5	4SP(5G)6F
2849.4923	-3.105	105763.270	5.5	4D (3F)2H	109271.710	5.5	4SP(3I)2I	3063.6757	-4.747	99688.337	3.5	5S (3F)4F	102951.500	4.5	4SP(3I)4I
2850.6542	-3.668	105063.550	5.5	4D (3F)4G	108570.560	4.5	4SP(3G)4D	3065.5828	-3.371	77230.900	4.5	D5S2(7S)2H	73969.767	5.5	4P (1I)2I
2852.8123	-2.485	84131.563	0.5	4D (5D)6D	87635.920	0.5	4SP(5F)6D	3067.3256	-4.572	104705.420	3.5	5D (5D)6D	107964.700	4.5	210DD
2857.3719	-2.190	84710.685	3.5	4D (5D)6G	88209.450	3.5	4SP(5F)6D	3080.4611	-3.820	50212.826	2.5	D6S (3F)4P	46967.444	2.5	4P (5D)4P
2862.5049	-3.062	105414.180	2.5	4D (3F)4G	108906.640	3.5	4SP(3G)4H	3101.6040	-4.384	87985.628	2.5	4D (5D)4P	91208.887	1.5	5P (5D)4F
2873.0949	-3.446	77230.900	4.5	D5S2(7S)2H	73751.282	4.5	4P (1I)2H	3105.9875	-4.316	105155.090	4.5	4D (3F)4G	108373.800	3.5	260DD
2876.0854	-2.624	105155.090	4.5	4D (3F)4G	108631.090	3.5	4SP(3G)4G	3107.7255	-1.725	105414.180	2.5	4D (3F)4G	108631.090	3.5	4SP(3G)4G
2877.9483	-2.914	84424.370	1.5	4D (5D)6P	87898.120	0.5	4SP(5G)6F	3109.5040	-1.199	105414.180	2.5	4D (3F)4G	108629.250	2.5	4SP(3G)4G
2880.2973	-2.518	99688.337	3.5	5S (3F)4F	96217.420	3.5	4SP(3F)4D	3109.5621	-4.471	103950.590	4.5	5D (5D)6F	107165.600	3.5	170DD
2880.4882	-2.518	84131.563	0.5	4D (5D)6D	87602.250	1.5	4SP(5G)6F	3110.0109	-2.053	84844.834	2.5	4D (5D)6G	88059.380	2.5	4SP(5F)6D
2880.9522	-1.262	105398.852	5.5	4D (3F)4H	108868.980	4.5	4SP(3G)4H	3111.8076	-4.774	103983.510	3.5	5S (3G)2G	107196.200	2.5	180DD
2883.0808	-4.284	99824.045	2.5	5S (3F)4F	96356.960	3.5	4SP(3G)2F	3112.9122	-3.212	84424.370	1.5	4D (5D)6P	87635.920	0.5	4SP(5F)6D
2892.0575	-4.683	57578.484	0.5	D5S2(7S)4D	61035.287	0.5	4P (3F)4P	3113.6975	-4.518	84326.912	2.5	4D (5D)6P	87537.652	3.5	4SP(5G)6F
2896.4363	-4.489	58631.531	4.5	D6S (1G)2G	62083.108	4.5	4P (3H)2G	3117.7185	-4.516	102842.119	4.5	5S (3G)4G	99635.520	3.5	4SP(3G)2G
2905.9196	-1.781	105288.847	6.5	4D (3F)4H	108729.160	6.5	4SP(3G)4H	3119.0706	-4.482	84266.556	3.5	4D (5D)6P	87471.765	4.5	4SP(5G)6F
2906.3876	-4.144	85679.698	2.5	4D (5D)4G	89119.457	2.5	5P (5D)6D	3128.6551	-4.429	104000.810	3.5	5D (5D)6P	107196.200	2.5	180DD
2911.0397	-3.710	102030.912	3.5	6S (5D)6D	98596.650	4.5	4SP(5D)4F	3129.0145	-1.199	105288.847	6.5	4D (3F)4H	108483.870	5.5	4SP(3G)4G
2914.8387	-3.852	85184.734	4.5	4D (5D)4G	88614.520	4.5	4SP(5F)6D	3135.3991	-4.308	84870.863	2.5	4D (5D)4D	88059.380	2.5	4SP(5F)6D
2922.9057	-1.269	105063.550	5.5	4D (3F)4G	108483.870	5.5	4SP(3G)4G	3141.5155	-3.539	87985.628	2.5	4D (5D)4P	91167.937	3.5	5P (5D)6P
2923.2220	-4.868	105211.140	4.5	5D (5D)4G	108631.090	3.5	4SP(3G)4G	3142.2650	-4.301	105449.540	3.5	5D (5D)4G	108631.090	3.5	4SP(3G)4G
2923.6580	-4.447	105449.540	3.5	5D (5D)4G	108868.980	4.5	4SP(3G)4H	3145.8939	-3.779	84424.370	1.5	4D (5D)6P	87602.250	1.5	4SP(5G)6F
2924.8700	-3.241	88157.116	1.5	4D (5D)4P	91575.139	2.5	5P (5D)6P	3146.1602	-4.155	73492.215	3.5	D5S2(7S)4F	70314.604	4.5	4P (3G)2G
2927.0563	-1.112	105155.090	4.5	4D (3F)4G	108570.560	4.5	4SP(3G)4G	3148.8119	-0.702	84296.830	5.5	4D (5D)6G	87471.765	4.5	4SP(5G)6F

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL		
3152.0156	-1.116	105398.852	5.5	4D (3F)4H	108570.560	4.5	4SP(3G)4G	3380.2894	-2.782	105414.180	2.5	4D (3F)4G	108371.700	1.5	250DD
3158.9057	-4.303	104000.810	3.5	5D (5D)6P	107165.600	3.5	170DD	3390.9868	-4.018	105291.010	3.5	4D (3F)4G	108239.200	3.5	240DD
3171.6161	-4.941	81639.260	2.5	D582(7S)2F	78487.153	1.5	4P (1D)2D	3395.8280	-1.613	84527.778	4.5	4D (5D)6G	87471.765	4.5	4SP(5G)6F
3174.4934	-4.054	105630.750	2.5	5D (5D)4G	108780.400	1.5	270DD	3410.0102	-4.018	102584.963	5.5	5S (3G)4G	99653.220	4.5	4SP(3G)2G
3175.6923	-4.469	84424.370	1.5	4D (5D)6P	87572.431	2.5	4SP(5G)6F	3419.0869	-4.478	103600.440	6.5	4D (3H)4H	106524.400	7.5	4SP(3I)2K
3203.0223	-3.246	84938.180	1.5	4D (5D)6G	88059.380	2.5	4SP(5P)6D	3429.0129	-0.582	87985.628	2.5	4D (5D)4P	90901.124	2.5	5P (5D)4P
3203.2070	-4.899	105449.540	3.5	5D (5D)4G	108570.560	4.5	4SP(3G)4G	3429.4752	-5.000	86710.817	1.5	4D (5D)4F	89623.940	1.5	4SP(5P)6P
3204.4432	-1.535	84844.834	2.5	4D (5D)6G	87964.650	1.5	4SP(5P)6D	3431.4434	-1.259	88157.116	1.5	4D (5D)4F	91070.547	2.5	5P (5D)4F
3209.7252	-3.048	99332.102	4.5	5S (3H)2H	96217.420	3.5	4SP(5P)4D	3431.6624	-0.789	87985.628	2.5	4D (5D)4P	90898.873	1.5	4P (3P)4P
3213.0799	-4.398	105127.770	2.5	5D (5D)4D	108239.200	3.5	240DD	3432.4106	-3.864	103950.590	4.5	5D (5D)6F	106863.200	3.5	160DD
3218.0454	-1.036	105524.461	4.5	4D (3F)4H	108631.090	3.5	4SP(3G)4G	3435.0524	-4.741	105414.180	2.5	4D (3F)4G	102503.810	1.5	4SP(3D)2D
3223.0149	-4.615	101698.489	4.5	6S (5D)6D	108968.980	4.5	4SP(3G)4H	3436.6453	-3.685	57493.321	1.5	D582(7S)4P	60402.342	2.5	4P (3P)4P
3223.6062	-3.108	104863.430	5.5	5D (5D)4G	107964.700	4.5	210DD	3445.9692	-2.635	105063.550	5.5	4D (3F)4G	107964.700	4.5	210DD
3223.6279	-2.608	99332.102	4.5	5S (3H)2H	96239.200	4.5	4SP(3G)2H	3457.9002	-2.311	88157.116	1.5	4D (5D)4P	91048.256	1.5	5P (5D)4D
3233.8251	-4.592	104873.230	3.5	5D (5D)4D	107964.700	4.5	210DD	3462.5794	-3.549	84685.198	3.5	4D (5D)4D	87572.431	2.5	4SP(5G)6F
3235.5462	-4.465	103600.440	6.5	4D (3H)4H	106690.170	5.5	4SP(3I)2H	3480.6733	-4.741	73395.930	2.5	D582(7S)4F	70523.706	3.5	4P (3G)2G
3240.6923	-1.180	105398.852	5.5	4D (3F)4H	108483.870	5.5	4SP(3G)4G	3492.6315	-3.665	104000.810	3.5	5D (5D)6P	106863.200	3.5	160DD
3241.5424	-3.590	105155.090	4.5	4D (3F)4G	108239.200	3.5	240DD	3493.4175	-1.176	84710.685	3.5	4D (5D)6G	87572.431	2.5	4SP(5G)6F
3242.9304	-3.810	105291.010	3.5	4D (3F)4G	108373.800	3.5	260DD	3496.4964	-1.227	88189.030	0.5	4D (5D)4P	91048.256	1.5	5P (5D)4D
3244.5396	-3.339	103608.909	4.5	5S (3G)2G	106690.170	5.5	4SP(3I)2H	3502.5896	-4.272	99093.452	5.5	5S (3H)2H	96239.200	4.5	4SP(3G)2H
3246.7735	-4.731	73393.745	4.5	5D82(7S)4F	70314.604	4.5	4P (3G)2G	3504.7974	-3.715	105524.461	4.5	4D (3F)4H	108373.800	3.5	260DD
3250.1628	-3.940	104120.270	2.5	5D (5D)6P	107196.200	2.5	180DD	3508.6290	-3.154	105524.461	4.5	4D (3F)4H	108373.800	3.5	260DD
3261.7850	-4.775	105065.630	3.5	5D (5D)6G	108130.600	2.5	220DD	3514.3260	-4.227	86599.738	2.5	4D (5D)4F	89444.458	2.5	4SP(5P)6P
3262.9987	-4.550	105127.770	2.5	5D (5D)4D	108191.600	1.5	230DD	3517.5905	-4.602	100492.020	3.5	5S (3F)2F	103334.100	2.5	4SP(3D)2F
3264.2793	-2.167	87985.628	2.5	4D (5D)4P	91048.256	1.5	5P (5D)4D	3530.1818	-4.747	60441.033	1.5	D582(7S)4D	63272.976	2.5	4P (3F)4D
3275.8924	-2.379	88157.116	1.5	4D (5D)4F	91208.887	1.5	5P (5D)4F	3535.3001	-3.843	102584.963	5.5	5S (3G)4G	99757.120	4.5	4P (1G)2G
3281.9923	-2.518	105524.461	4.5	4D (3F)4H	108570.560	4.5	4SP(3G)4G	3535.4776	-4.769	60445.275	2.5	D582(7S)4D	63272.976	2.5	4P (3F)4D
3282.0558	-4.238	105763.270	5.5	4D (3F)2H	108089.310	5.5	4SP(3G)4H	3536.3956	-1.632	84710.685	3.5	4D (5D)6G	87537.652	3.5	4SP(5G)6F
3282.8210	-4.575	104120.270	2.5	5D (5D)6P	107165.600	3.5	170DD	3538.8328	-4.401	105414.180	2.5	4D (3F)4G	108239.200	3.5	240DD
3284.0903	-1.772	84296.830	5.5	4D (5D)6G	87340.983	5.5	4SP(5G)6F	3539.3465	-3.890	103711.730	2.5	5D (5D)6S	102887.120	3.5	4F(5D)4[4]
3285.7342	-3.704	88157.116	1.5	4D (5D)4D	91199.746	0.5	5P (5D)4D	3541.3061	-4.226	50212.826	2.5	D6S (3P)4P	47389.779	1.5	4P (5D)4P
3286.7712	-2.765	105589.420	3.5	4D (3F)4H	108631.090	3.5	4SP(3G)4G	3551.1013	-3.946	104380.940	3.5	5D (5D)6F	107196.200	2.5	180DD
3288.7607	-1.001	105589.420	3.5	4D (3F)4H	108629.250	2.5	4SP(3G)4G	3553.6954	-3.211	84527.778	4.5	4D (5D)6G	87340.983	5.5	4SP(5G)6F
3297.9151	-2.402	99093.452	5.5	5S (3H)2H	96062.060	5.5	4SP(3G)2H	3555.5090	-4.727	103763.270	5.5	4D (3F)2H	102951.500	4.5	4SP(3I)4I
3301.4731	-4.705	86416.333	3.5	4D (5D)4F	89444.458	2.5	4SP(5P)6P	3558.2424	-2.924	103155.090	4.5	4D (3F)4G	107964.700	4.5	210DD
3301.5440	-3.833	105211.140	4.5	5D (5D)4G	108239.200	3.5	240DD	3561.1830	-2.631	103763.270	5.5	4D (3F)2H	108570.560	4.5	4SP(3G)4G
3303.2785	-2.104	84938.180	1.5	4D (5D)6G	87964.650	1.5	4SP(5P)6D	3571.7981	-4.972	105288.847	6.5	4D (3F)4H	102449.900	6.5	4SP(3I)4K
3305.1941	-3.461	85184.734	4.5	4D (5D)4G	88209.450	3.5	4SP(3I)6D	3576.8310	-1.462	87985.628	2.5	4D (5D)4P	90780.621	3.5	5P (5D)4F
3307.2453	-3.519	103983.510	3.5	5S (3G)2G	107006.350	4.5	4SP(3I)2H	3583.6889	-4.533	105449.540	3.5	5D (5D)4G	108239.200	3.5	240DD
3310.5122	-1.766	88189.030	0.5	4D (5D)4P	91208.887	1.5	5P (5D)4F	3587.6667	-4.897	84685.198	3.5	4D (5D)4D	87471.765	4.5	4SP(5G)6F
3312.4394	-4.049	104868.500	4.5	5D (5D)6G	107886.420	3.5	200DD	3590.4846	-3.051	105589.420	3.5	4D (3F)4H	108373.800	3.5	260DD
3320.5634	-1.384	88189.030	0.5	4D (5D)4P	91199.746	0.5	5P (5D)4D	3599.4821	-4.767	105414.180	2.5	4D (3F)4G	108191.600	1.5	230DD
3321.4923	-0.926	84527.778	4.5	4D (5D)6G	87573.652	3.5	4SP(5G)6F	3609.4628	-4.368	104426.460	2.5	5D (5D)6F	107196.200	2.5	180DD
3327.6991	-4.061	86124.301	4.5	4D (5D)4F	89128.561	3.5	4SP(5P)6P	3609.7365	-2.004	103711.730	2.5	5D (5D)6S	102942.200	3.5	4F(5D)4[3]
3329.2838	-4.715	105127.770	2.5	5D (5D)4D	108130.600	2.5	220DD	3620.7837	-2.880	84710.685	3.5	4D (5D)6G	87471.765	4.5	4SP(5G)6F
3334.0915	-4.622	105630.750	2.5	5D (5D)4G	108629.250	2.5	4SP(3G)4G	3621.1995	-4.160	99688.337	3.5	5S (3F)4F	102449.900	2.5	4SP(3D)2D
3342.1423	-3.352	57411.065	2.5	D582(7S)4P	60402.342	2.5	4P (3P)4P	3621.5078	-4.531	103711.730	2.5	5D (5D)6F	107196.200	2.5	180DD
3353.5068	-3.706	105589.420	3.5	4D (3F)4H	108570.560	4.5	4SP(3G)4G	3622.7125	-4.293	105711.730	2.5	5D (5D)6S	102952.120	2.5	4F(5D)4[3]
3358.9050	-3.504	78577.280	4.5	D582(7S)2G	75600.931	4.5	4P (3D)2F	3623.3767	-4.649	103127.770	2.5	5D (5D)4D	107886.420	3.5	200DD
3360.2676	-3.933	99332.102	4.5	5S (3H)2H	96356.960	3.5	4SP(3G)2F	3625.5950	-1.440	84844.834	2.5	4D (5D)6G	87602.250	1.5	4SP(5G)6F
3367.7760	-4.535	73492.215	3.5	D582(7S)4F	70523.706	3.5	4P (3G)2G	3630.2107	-4.319	104411.140	4.5	5D (5D)6D	107165.600	3.5	170DD
3370.7499	-3.707	105763.270	5.5	4D (3F)2H	108729.160	6.5	4SP(3G)4H	3630.6171	-3.957	105211.140	4.5	5D (5D)4G	107964.700	4.5	210DD
3375.9631	-4.828	105230.290	0.5	5D (5D)4D	108191.600	1.5	230DD	3639.8883	-4.553	85462.862	3.5	4D (5D)4G	88209.450	3.5	4SP(5P)6D
3377.5257	-1.659	84938.180	1.5	4D (5D)6G	87898.120	0.5	4SP(5G)6F	3643.3107	-2.618	88157.116	1.5	4D (5D)4P	90901.124	2.5	5P (5D)4P
3377.8909	-3.816	105414.180	2.5	4D (3F)4G	108373.800	3.5	260DD	3643.8126	-3.729	105630.750	2.5	5D (5D)4G	102887.120	3.5	4F(5D)4[4]
3378.1317	-3.862	105524.461	4.5	4D (3F)4H	108483.870	5.5	4SP(3G)4G	3644.7425	-3.919	104120.270	2.5	5D (5D)6P	106863.200	3.5	160DD

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
3646.3018	-1.104	88157.116	1.5	4D (5D)4P	90898.873	1.5	4P (3P)4P	3934.1069	-3.432	105589.420	3.5	4D (3F)4H	108130.600	2.5	220DD
3647.3754	-3.604	105630.750	2.5	5D (5D)4G	108371.700	1.5	250DD	3936.7250	-4.263	49506.934	1.5	D6S (3P)4P	46967.444	2.5	4P (5D)4P
3649.7856	-4.993	104426.460	2.5	5D (5D)6F	107165.600	3.5	170DD	3961.1534	-4.618	85048.602	1.5	4D (5D)4D	87572.431	2.5	4SP(5G)6F
3659.9806	-2.461	105155.090	4.5	4D (3F)4F	107886.600	3.5	200DD	3967.2351	-4.221	105630.730	2.5	5D (5D)4G	103110.790	1.5	4F(5D)4[1]
3660.0516	-3.872	86599.738	2.5	4D (5D)4F	89331.195	1.5	5P (5D)6D	3967.6146	-3.707	86599.738	2.5	4D (5D)4F	89119.457	2.5	5P (5D)6D
3663.0355	-3.232	86124.301	4.5	4D (5D)4F	88853.533	3.5	5P (5D)6D	3968.2981	-4.552	73395.930	2.5	D5S2(7S)4F	75915.215	2.5	4P (3D)2F
3665.2312	-1.746	84844.834	2.5	4D (5D)6F	87572.431	2.5	4SP(5G)6F	3972.0111	-4.144	60445.275	3.5	D5S2(7S)4D	62962.205	1.5	4P (3D)2F
3674.7387	-3.636	81639.260	2.5	D5S2(7S)2F	103118.400	1.5	4P (1F)2D	3987.2033	-1.750	105449.540	3.5	5D (5D)4G	102942.200	3.5	4F(5D)4[3]
3678.1187	-4.691	105414.180	2.5	4D (3F)4G	108483.870	5.5	4SP(3G)4F	3995.4223	-4.075	87985.628	2.5	4D (5D)4P	90487.810	2.5	5P (5D)6F
3680.3122	-3.860	105118.400	1.5	6S (5D)4D	100400.360	2.5	4SP(3P)2D	3999.1495	-4.418	105630.730	2.5	4D (5D)4G	108130.600	2.5	220DD
3683.3957	-2.412	85495.304	2.5	4D (5D)6S	88209.450	3.5	4SP(5P)6D	4003.0407	-2.402	105449.540	3.5	5D (5D)4G	102952.120	2.5	4F(5D)4[3]
3686.0004	-3.848	86416.333	3.5	4D (5D)4F	89128.561	3.5	4SP(5P)6F	4013.1949	-4.450	88157.116	1.5	4D (5D)4P	90648.217	0.5	5P (5D)6F
3689.2446	-1.210	88189.030	0.5	4D (5D)4F	90898.873	1.5	4P (3P)4P	4017.7121	-4.087	104705.420	3.5	5D (5D)6D	107196.200	2.5	180DD
3698.4147	-3.439	86416.333	3.5	4D (5D)4F	89119.457	2.5	5P (5D)6D	4027.4886	-4.916	104380.940	3.5	5D (5D)6F	106863.200	3.5	160DD
3700.5449	-4.123	84870.863	2.5	4D (5D)4D	87572.431	2.5	4SP(5G)6F	4028.3877	-1.167	88157.116	1.5	4D (5D)4P	90638.822	2.5	5P (5D)4D
3705.7958	-1.731	84938.180	1.5	4D (5D)6G	87635.920	0.5	4SP(5P)6D	4035.0116	-3.666	84863.331	5.5	4D (5D)4G	87340.983	5.5	4SP(5G)6F
3712.1390	-3.405	100492.020	3.5	5S (3F)2F	87537.652	3.5	4SP(5G)6F	4042.9191	-4.705	88157.116	1.5	4D (5D)4P	90629.902	1.5	4P (3P)4S
3714.1390	-3.405	100492.020	3.5	5S (3F)2F	103183.700	3.5	4SP(3D)2F	4048.5512	-3.702	85495.304	2.5	4D (5D)6S	87964.650	1.5	4SP(5P)6D
3719.9988	-1.584	105711.730	2.5	5D (5D)6S	103024.290	2.5	4F(5D)4[2]	4063.6351	-4.987	104705.420	3.5	5D (5D)6D	107165.600	3.5	170DD
3727.0384	-1.009	88157.116	1.5	4D (5D)4P	90839.480	0.5	4P (3P)4P	4064.7917	-4.866	100492.020	3.5	5S (3F)2F	102951.500	4.5	4SP(31)4I
3728.8511	-3.751	105449.540	3.5	5D (5D)4G	108130.600	2.5	220DD	4065.2760	-3.681	88189.030	0.5	4D (5D)4P	90648.217	0.5	5P (5D)6F
3730.6531	-4.963	99824.045	2.5	5S (3F)4F	102503.810	1.5	4SP(3D)2D	4078.0065	-3.678	104611.690	4.5	5D (5D)6D	106863.200	3.5	160DD
3732.2339	-2.830	105630.750	2.5	5D (5D)4G	102952.120	2.5	4F(5D)4[3]	4084.9734	-2.421	108630.429	5.5	5S (11)2I	106183.100	6.5	4SP(31)2K
3734.5483	-2.674	105711.730	2.5	5D (5D)6S	103034.760	1.5	4F(5D)4[2]	4095.7796	-4.547	88189.030	0.5	4D (5D)4P	90629.902	1.5	4P (3P)4S
3736.6560	-3.205	105211.140	4.5	5D (5D)4G	107886.600	3.5	200DD	4101.9505	-3.625	86416.333	3.5	4D (5D)4F	88853.533	3.5	5P (5D)6D
3737.7191	-4.116	60270.339	3.5	D5S2(7S)4D	62945.038	3.5	4P (3F)4D	4102.1862	-3.851	105449.540	3.5	5D (5D)4G	107886.600	3.5	200DD
3739.1297	-4.245	105291.010	3.5	4D (3F)4G	107964.700	4.5	210DD	4102.7249	-4.425	104426.460	2.5	5D (5D)6F	106863.200	3.5	160DD
3752.6317	-1.996	84938.180	1.5	4D (5D)6G	87602.250	1.5	4SP(5G)6F	4103.3294	-4.029	88157.116	1.5	4D (5D)4P	90593.497	1.5	5P (5D)6F
3768.0146	-2.119	87985.628	2.5	4D (5D)4D	90638.822	2.5	5P (5D)4D	4107.5290	-4.725	100749.810	2.5	5S (3F)2F	103183.700	3.5	4SP(3D)2F
3771.9156	-2.058	88189.030	0.5	4D (5D)4P	90839.480	0.5	4P (3P)4P	4115.0511	-4.800	85172.809	0.5	4D (5D)4D	87602.250	1.5	4SP(5G)6F
3778.1735	-4.117	103878.340	7.5	4D (3H)4I	106524.400	7.5	4SP(31)2K	4122.1622	-2.227	105449.540	3.5	5D (5D)4G	103024.290	2.5	4F(5D)4[2]
3780.7253	-3.482	87985.628	2.5	4D (5D)4F	90629.902	1.5	4P (3P)4S	4125.9900	-4.698	73492.215	2.5	D5S2(7S)4F	75915.215	2.5	4P (3D)2F
3789.8320	-4.663	105589.420	3.5	4D (3F)4H	102951.500	4.5	4SP(31)4I	4131.8886	-3.983	60270.339	3.5	D5S2(7S)4D	62689.880	2.5	4P (3P)4D
3795.1105	-2.947	84938.180	1.5	4D (5D)6G	87572.431	2.5	4SP(5G)6F	4133.5782	-4.128	105398.852	5.5	4D (3F)4H	102980.300	5.5	4SP(31)4I
3807.7599	-3.008	104064.670	6.5	4D (3H)4I	106690.170	5.5	4SP(31)2H	4144.3944	-1.282	87985.628	2.5	4D (5D)4P	90397.868	3.5	5P (5D)4D
3815.2320	-4.132	86710.837	1.5	4D (5D)4F	89331.195	1.5	5P (5D)6D	4150.6231	-4.908	86710.837	1.5	4D (5D)4F	89119.457	2.5	5P (5D)6D
3832.7021	-2.788	84863.331	5.5	4D (5D)4G	87471.765	4.5	4SP(5G)6F	4157.7921	-4.174	88189.030	0.5	4D (5D)4P	90593.497	1.5	5P (5D)6F
3833.5030	-4.599	87985.628	2.5	4D (5D)4P	90593.497	1.5	5P (5D)6F	4173.0771	-4.816	81639.260	2.5	D5S2(7S)2F	79243.600	1.5	4P (1D)2P
3834.0602	-4.462	104588.710	1.5	5D (5D)6D	107196.200	2.5	180DD	4186.3895	-4.453	60441.033	1.5	D5S2(7S)4D	62829.075	0.5	4P (3P)4D
3835.5753	-3.592	105630.750	2.5	5D (5D)4G	103024.290	2.5	4F(5D)4[2]	4194.6486	-4.945	98445.400	4.5	5S (3H)4D	90622.060	5.5	4SP(3G)2H
3843.7156	-1.419	105711.730	2.5	5D (5D)6S	103110.790	1.5	4F(5D)4[1]	4200.8530	-3.057	105211.140	4.5	5D (5D)4G	102831.320	5.5	4F(5D)4[5]
3846.4382	-3.649	86124.301	4.5	4D (5D)4F	88723.400	4.5	5P (5D)6D	4201.0966	-4.923	85679.698	2.5	4D (5D)4G	88059.380	2.5	4SP(5P)6D
3847.9787	-2.373	105449.540	3.5	5D (5D)4G	102851.360	4.5	4F(5D)4[5]	4209.7330	-3.219	104315.370	6.5	4D (3H)2K	106690.170	5.5	4SP(31)2H
3850.2617	-3.894	85462.862	3.5	4D (5D)4G	88059.380	2.5	4SP(5P)6D	4216.3199	-2.342	105711.730	2.5	5D (5D)6S	103340.640	3.5	4F(5D)3[4]
3851.0448	-3.028	105630.750	2.5	5D (5D)4G	103034.760	1.5	4F(5D)4[2]	4221.2504	-4.956	104828.160	2.5	5D (5D)6D	107196.200	2.5	180DD
3851.6382	-3.083	105291.010	3.5	4D (3F)4G	107886.600	3.5	200DD	4232.2970	-3.732	105524.461	4.5	4D (3F)4H	107886.600	3.5	200DD
3863.9524	-4.956	85048.602	1.5	4D (5D)4D	87635.920	0.5	4SP(5P)6D	4236.5279	-1.519	105211.140	4.5	5D (5D)4G	102851.360	4.5	4F(5D)4[5]
3868.4798	-3.852	100749.810	2.5	5S (3F)2F	103334.100	2.5	4SP(3D)2F	4248.8833	-3.110	85184.734	4.5	4D (5D)4G	87537.652	3.5	4SP(5G)6F
3885.1190	-4.757	98568.912	3.5	5S (3H)4D	95995.590	2.5	4SP(5P)4D	4249.9295	-4.681	102584.963	5.5	5S (3G)4G	104937.800	4.5	4SP(31)4H
3885.5131	-4.533	105524.461	4.5	4D (3F)4H	102951.500	4.5	4SP(31)4I	4259.7965	-2.042	105711.730	2.5	5D (5D)6S	103364.840	2.5	4F(5D)3[3]
3894.2780	-1.859	105449.540	3.5	5D (5D)4G	102882.370	4.5	4F(5D)4[4]	4289.3979	-3.280	88157.116	1.5	4D (5D)4P	90487.810	2.5	5P (5D)6F
3896.2845	-3.635	105398.852	5.5	4D (3F)4H	107964.700	4.5	210DD	4289.6187	-4.868	85728.806	1.5	4D (5D)4S	88059.380	2.5	4SP(5P)6D
3898.9772	-3.032	85495.304	2.5	4D (5D)6S	88059.380	2.5	4SP(5P)6D	4291.2059	-4.746	98568.912	3.5	5S (3H)4D	96239.200	4.5	4SP(3G)2H
3901.4969	-1.888	105449.540	3.5	5D (5D)4G	102887.120	3.5	4F(5D)4[4]	4292.9417	-0.953	105211.140	4.5	5D (5D)4G	102882.370	4.5	4F(5D)4[4]
3914.6506	-3.706	100749.810	2.5	5S (3F)2F	98196.000	1.5	4SP(5D)4F	4298.0541	-1.730	105711.730	2.5	5D (5D)6S	103385.730	3.5	4F(5D)3[3]
3914.8989	-4.733	85048.602	1.5	4D (5D)4D	87602.250	1.5	4SP(5G)6F	4301.7160	-1.980	105211.140	4.5	5D (5D)4G	102887.120	3.5	4F(5D)4[4]
3929.4973	-4.723	105524.461	4.5	4D (3F)4H	102980.300	5.5	4SP(31)4I	4303.6604	-4.921	104873.230	3.5	5D (5D)4D	107196.200	2.5	180DD

WI(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	EVEN E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL
4308..3527	-2.189	105711.730	2.5	5D (5D)6S	103391.290	1.5	4F(5D)3[2]	4740.5159	-3.812	105449.540	3.5	5D (5D)4G	103340.640	3.5	4F(5D)3[4]	103340.640	3.5	4F(5D)3[4]
4313..3344	-0.608	105211.140	4.5	5D (5D)4G	102893.380	5.5	4F(5D)4[6]	4740..9296	-3.859	73492.215	3.5	D5S2(7S)4F	75600.931	3.5	4P (3D)2F	75600.931	3.5	4P (3D)2F
4318..4825	-2.265	87985.628	2.5	4D (5D)4P	90300.625	3.5	5P (5D)6F	4744.9123	-4.215	85495.304	2.5	4D (5D)6S	87602.250	1.5	4SP(5G)6F	87602.250	1.5	4SP(5G)6F
4336..3091	-1.550	105711.730	2.5	5D (5D)6S	103406.250	2.5	4F(5D)3[2]	4750.1112	-2.984	105230.290	0.5	5D (5D)4D	103125.650	0.5	4F(5D)4[1]	103125.650	0.5	4F(5D)4[1]
4337..6638	-3.702	103878.340	7.5	4D (3H)4I	106183.100	6.5	4SP(3I)2K	4752.7307	-1.191	105127.770	2.5	5D (5D)4D	103024.290	2.5	4F(5D)4[2]	103024.290	2.5	4F(5D)4[2]
4351..9767	-4.701	105589.420	3.5	4D (3F)4H	107886.600	3.5	2000D	4759.0430	-4.797	100492.020	3.5	5S (3F)2F	98391.330	3.5	4SP(5D)4D	98391.330	3.5	4SP(5D)4D
4358..3515	-1.657	105711.730	2.5	5D (5D)6S	103417.910	1.5	4F(5D)3[1]	4767.3756	-0.699	105449.540	3.5	5D (5D)4G	103352.680	4.5	4F(5D)3[5]	103352.680	4.5	4F(5D)3[5]
4365..4121	-2.860	105630.750	2.5	5D (5D)4G	103340.640	3.5	4F(5D)3[4]	4770.4179	-3.212	102842.119	4.5	5S (3G)4G	104937.800	4.5	4SP(3I)4H	104937.800	4.5	4SP(3I)4H
4366..7240	-4.831	98568.912	3.5	5S (3H)4H	96279.490	2.5	4SP(3G)2F	4771.9685	-3.742	105205.790	2.5	5D (5D)6G	103110.790	1.5	4F(5D)4[1]	103110.790	1.5	4F(5D)4[1]
4371..2892	-3.816	85184.734	4.5	4D (5D)4G	87471.765	4.5	4SP(5G)6F	4776.5056	-1.344	105127.770	2.5	5D (5D)4D	103034.760	1.5	4F(5D)4[2]	103034.760	1.5	4F(5D)4[2]
4375..2665	-4.433	85679.698	2.5	4D (5D)4G	87964.650	1.5	4SP(5P)6D	4794.5130	-4.619	86124.301	4.5	4D (5D)4F	88209.450	3.5	4SP(5P)6D	88209.450	3.5	4SP(5P)6D
4388..7114	-4.760	105398.852	5.5	4D (3F)4H	103120.900	6.5	4SP(3I)4I	4794.9201	-3.608	57578.484	0.5	D5S2(7S)4F	59663.456	1.5	4P (3P)4S	59663.456	1.5	4P (3P)4S
4388..8598	-4.696	73637.340	1.5	D5S2(7S)4F	75915.215	2.5	4P (3D)2F	4795.5457	-3.653	105449.540	3.5	5D (5D)4G	103364.840	2.5	4F(5D)3[3]	103364.840	2.5	4F(5D)3[3]
4404..4444	-3.568	78185.030	3.5	D5S2(7S)2G	75915.215	2.5	4P (3D)2F	4798.8835	-4.688	105063.550	5.5	4D (3F)4G	102980.300	5.5	4SP(3I)4I	102980.300	5.5	4SP(3I)4I
4406..1429	-1.763	105211.140	4.5	5D (5D)4G	102942.200	3.5	4F(5D)4[3]	4813.0298	-3.949	85495.304	2.5	4D (5D)6S	87572.431	2.5	4SP(5G)6F	87572.431	2.5	4SP(5G)6F
4412.0349	-3.227	105630.750	2.5	5D (5D)4G	103364.840	2.5	4F(5D)3[3]	4818.4511	-4.135	85462.862	3.5	4D (5D)4G	104659.262	3.5	4SP(5G)6F	104659.262	3.5	4SP(5G)6F
4415.2890	-4.388	105288.530	1.5	5D (5D)6G	103024.290	2.5	4F(5D)4[3]	4819.5963	-2.151	102584.963	5.5	5S (3G)4G	87637.652	3.5	4SP(3I)4H	87637.652	3.5	4SP(3I)4H
4416.5569	-3.721	105205.790	2.5	5D (5D)6G	102942.200	3.5	4F(5D)4[3]	4834.1058	-4.149	98130.131	6.5	5S (3H)4H	96062.060	5.5	4SP(3G)2H	96062.060	5.5	4SP(3G)2H
4420.2280	-4.665	105155.090	4.5	4D (3F)4G	102893.380	5.5	4F(5D)4[6]	4837.7574	-2.161	105711.730	2.5	5D (5D)6S	103645.220	1.5	4F(5D)2[2]	103645.220	1.5	4F(5D)2[2]
4435.7512	-4.906	86599.738	2.5	4D (5D)4F	88853.533	3.5	5P (5D)6D	4844.0865	-0.973	105449.540	3.5	5D (5D)4G	103853.100	6.5	4SP(3I)2K	103853.100	6.5	4SP(3I)2K
4435.8004	-3.579	105288.530	1.5	5D (5D)6G	103034.760	1.5	4F(5D)4[2]	4845.0725	-3.533	104119.710	7.5	4D (3H)2K	106183.100	6.5	4SP(3I)2K	106183.100	6.5	4SP(3I)2K
4435.9973	-2.881	105205.790	2.5	5D (5D)6G	102952.120	2.5	4F(5D)4[3]	4860.7214	-4.596	102588.847	6.5	4D (3F)4H	103232.100	7.5	4SP(3I)4I	103232.100	7.5	4SP(3I)4I
4438.5162	-3.798	57411.065	2.5	D5S2(7S)4P	59663.456	1.5	4P (3P)4S	4864.3778	-4.763	98294.401	5.5	5S (3H)4H	96239.200	4.5	4SP(3G)2H	96239.200	4.5	4SP(3G)2H
4453.0890	-1.330	105630.750	2.5	5D (5D)4G	103385.750	3.5	4F(5D)3[3]	4874.9356	-1.430	105711.730	2.5	5D (5D)6S	103660.980	2.5	4F(5D)2[2]	103660.980	2.5	4F(5D)2[2]
4453.9124	-4.530	60445.275	2.5	D5S2(7S)4D	62689.880	2.5	4P (3P)4D	4892.7338	-1.905	105449.540	3.5	5D (5D)4G	103406.250	2.5	4F(5D)3[2]	103406.250	2.5	4F(5D)3[2]
4461.7740	-1.036	105127.770	2.5	5D (5D)4D	102887.120	3.5	4F(5D)4[4]	4893.3325	-1.770	105711.730	2.5	5D (5D)6S	103668.690	1.5	4F(5D)2[1]	103668.690	1.5	4F(5D)2[1]
4464.1449	-4.909	105630.750	2.5	5D (5D)4G	103391.290	1.5	4F(5D)4[4]	4894.9075	-3.997	85495.304	2.5	4D (5D)6S	87537.652	3.5	4SP(5G)6F	87537.652	3.5	4SP(5G)6F
4479.3925	-3.233	102584.963	5.5	5S (3G)4G	104816.800	5.5	4SP(3I)4H	4897.4060	-4.938	105065.630	3.5	5D (5D)6G	103024.290	2.5	4F(5D)4[2]	103024.290	2.5	4F(5D)4[2]
4484.7115	-4.656	81639.260	2.5	D5S2(7S)2F	83868.450	2.5	4P (1F)2D	4907.4083	-3.104	104868.500	4.5	5D (5D)6G	102831.320	5.5	4F(5D)4[5]	102831.320	5.5	4F(5D)4[5]
4487.1471	-4.624	98445.400	4.5	5S (3H)4H	96217.420	3.5	4SP(5P)4D	4912.7861	-1.281	105711.730	2.5	5D (5D)6S	103676.800	3.5	4F(5D)2[3]	103676.800	3.5	4F(5D)2[3]
4517.8477	-1.328	105630.750	2.5	5D (5D)4G	103406.250	2.5	4F(5D)3[2]	4919.6520	-2.314	104863.430	5.5	5D (5D)4G	102831.320	5.5	4F(5D)4[5]	102831.320	5.5	4F(5D)4[5]
4519.6614	-4.899	98568.912	3.5	5S (3H)4H	96356.960	3.5	4SP(3G)2F	4941.3666	-1.629	104863.430	5.5	5D (5D)4G	102840.250	6.5	4F(5D)4[6]	102840.250	6.5	4F(5D)4[6]
4541.2636	-4.798	105763.270	5.5	4D (3F)2H	107964.700	4.5	2100D	4956.1627	-1.438	104868.500	4.5	5D (5D)6G	102831.360	4.5	4F(5D)4[5]	102831.360	4.5	4F(5D)4[5]
4553.4673	-2.874	105230.290	0.5	5D (5D)4D	103034.760	1.5	4F(5D)4[2]	4956.5659	-1.898	105127.770	2.5	5D (5D)4D	103110.790	1.5	4F(5D)4[1]	103110.790	1.5	4F(5D)4[1]
4572.3123	-4.786	102842.119	4.5	5S (3G)4G	105028.600	3.5	4SP(3I)4H	4965.6404	-1.468	105711.730	2.5	5D (5D)6S	103698.440	2.5	4F(5D)2[3]	103698.440	2.5	4F(5D)2[3]
4574.2182	-1.131	105127.770	2.5	5D (5D)4D	102942.200	3.5	4F(5D)4[3]	4968.6513	-2.774	104863.430	5.5	5D (5D)4G	102851.360	4.5	4F(5D)4[5]	102851.360	4.5	4F(5D)4[5]
4579.0579	-3.889	105065.630	3.5	5D (5D)6G	102882.370	4.5	4F(5D)4[4]	4972.5065	-4.476	105155.090	4.5	4D (3F)4G	107165.600	3.5	1700D	107165.600	3.5	1700D
4582.7522	-3.382	105205.790	2.5	5D (5D)6G	103024.290	2.5	4F(5D)4[2]	4998.2372	-1.331	105711.730	2.5	5D (5D)6S	103711.570	3.5	4F(5D)2[4]	103711.570	3.5	4F(5D)2[4]
4589.0421	-2.322	105065.630	3.5	5D (5D)6G	102887.120	3.5	4F(5D)4[4]	5021.5857	-1.026	104873.230	3.5	5D (5D)4D	102882.370	4.5	4F(5D)4[4]	102882.370	4.5	4F(5D)4[4]
4590.6646	-3.764	105288.530	1.5	5D (5D)6G	103110.790	1.5	4F(5D)4[1]	5023.8316	-4.591	104873.230	3.5	5D (5D)4D	106863.200	3.5	1600D	106863.200	3.5	1600D
4595.0746	-0.992	105127.770	2.5	5D (5D)4D	102952.120	2.5	4F(5D)4[3]	5031.5434	-4.809	100492.020	3.5	5S (3F)2F	98505.100	2.5	4SP(5D)4D	98505.100	2.5	4SP(5D)4D
4604.8530	-3.043	105205.790	2.5	5D (5D)6G	103034.760	1.5	4F(5D)4[2]	5033.5447	-2.089	104868.500	4.5	5D (5D)6G	102882.370	4.5	4F(5D)4[4]	102882.370	4.5	4F(5D)4[4]
4606.7521	-3.498	57493.321	1.5	D5S2(7S)4D	59663.456	1.5	4P (3P)4S	5033.5954	-1.212	104873.230	3.5	5D (5D)4D	102887.120	3.5	4F(5D)4[4]	102887.120	3.5	4F(5D)4[4]
4611.4015	-4.322	105288.847	6.5	4D (3F)4H	103120.900	6.5	4SP(3I)4I	5035.0658	-2.846	105630.750	2.5	5D (5D)4G	103645.220	1.5	4F(5D)2[2]	103645.220	1.5	4F(5D)2[2]
4622.2047	-3.776	105288.530	1.5	5D (5D)6G	103125.650	0.5	4F(5D)4[1]	5045.6117	-1.876	104868.500	4.5	5D (5D)6G	102887.120	3.5	4F(5D)4[4]	102887.120	3.5	4F(5D)4[4]
4633.1294	-4.719	104705.420	3.5	5D (5D)6D	106863.200	3.5	1600D	5046.4267	-1.801	104863.430	5.5	5D (5D)4G	102882.370	4.5	4F(5D)4[4]	102882.370	4.5	4F(5D)4[4]
4677.3936	-3.746	100492.020	3.5	5S (3F)2F	98354.660	2.5	4SP(5D)4F	5049.9700	-4.900	100749.810	2.5	5S (3F)2F	98770.140	1.5	4SP(5D)4D	98770.140	1.5	4SP(5D)4D
4679.4210	-3.700	81734.750	3.5	D5S2(7S)2F	83871.184	4.5	4P (1F)2G	5061.6034	-1.367	104868.500	4.5	5D (5D)6G	102893.380	5.5	4F(5D)4[6]	102893.380	5.5	4F(5D)4[6]
4685.4169	-3.632	81734.750	3.5	D5S2(7S)2F	83868.450	2.5	4P (1F)2D	5061.7316	-4.397	104315.370	6.5	4D (3H)2K	102340.300	5.5	4SP(3I)4H	102340.300	5.5	4SP(3I)4H
4706.1609	-2.396	108648.695	6.5	5S (1I)2I	106524.400	7.5	4SP(3I)2K	5062.7287	-2.289	102842.119	4.5	5S (3G)4G	104816.800	5.5	4SP(3I)4H	104816.800	5.5	4SP(3I)4H
4708.0780	-4.418	105065.630	3.5	5D (5D)6G	102942.200	3.5	4F(5D)4[3]	5074.6297	-0.818	104863.430	5.5	5D (5D)4G	102893.380	5.5	4F(5D)4[6]	102893.380	5.5	4F(5D)4[6]
4708.7433	-2.461	105449.540	3.5	5D (5D)4G	103326.410	4.5	4F(5D)3[4]	5075.3510	-1.915	105630.750	2.5	5D (5D)4G	103660.980	2.5	4F(5D)2[2]	103660.980	2.5	4F(5D)2[2]
4716.8078	-2.7																	

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	
5145.8072	-3.177	105063.550	5.5	4D (3F)4G	107006.350	4.5	4SP(31)2H	5651.6899	-0.686	105449.540	3.5	5D (5D)4G	103680.640	4.5	4F(5D)2[4]	
5150.4730	-1.893	104828.160	2.5	5D (5D)6D	102887.120	3.5	4F(5D)4[4]	5669.8961	-1.157	104705.420	3.5	5D (5D)6D	102942.200	3.5	4F(5D)4[3]	
5152.5462	-3.985	108630.429	5.5	5S (11)2I	106690.170	5.5	4SP(31)2H	5670.8288	-1.275	105127.770	2.5	5D (5D)4D	103364.840	2.5	4F(5D)3[3]	
5173.7424	-1.526	105630.750	2.5	5D (5D)4G	103698.440	2.5	4F(5D)2[3]	5673.9830	-1.349	104593.270	5.5	5D (5D)6G	102831.320	5.5	4F(5D)4[5]	
5177.1719	-1.466	104873.230	3.5	5D (5D)4G	102942.200	3.5	4F(5D)4[3]	5674.6915	-2.967	105630.750	2.5	5D (5D)4G	103869.020	1.5	4F(5D)1[2]	
5200.0020	-4.297	85679.698	2.5	4D (5D)4G	87602.250	1.5	4SP(5G)6F	5699.7003	-3.931	100749.810	2.5	5S (3F)2F	102503.810	1.5	4SP(3D)2D	
5203.9031	-1.747	104873.230	3.5	5D (5D)4D	102952.120	2.5	4F(5D)4[3]	5701.9739	-1.040	104705.420	3.5	5D (5D)6D	102952.120	2.5	4F(5D)4[3]	
5209.1384	-1.182	105630.750	2.5	5D (5D)4G	103711.570	3.5	4F(5D)2[4]	5702.8866	-2.612	104593.270	5.5	5D (5D)6G	102840.250	6.5	4F(5D)4[6]	
5247.3896	-3.914	105291.010	3.5	4D (3F)4G	107196.200	2.5	180DD	5709.1396	-3.746	105449.540	3.5	5D (5D)4G	103698.440	2.5	4F(5D)2[3]	
5269.3777	-2.737	105288.530	1.5	5D (5D)6G	103391.290	1.5	4F(5D)3[2]	5719.0354	-1.355	105630.750	2.5	5D (5D)4G	103882.680	3.5	4F(5D)1[4]	
5274.5766	-4.737	100492.020	3.5	5S (3F)2F	98596.650	4.5	4SP(5D)4F	5719.0354	-1.613	105449.540	3.5	5D (5D)4G	103701.720	4.5	4F(5D)2[5]	
5281.9232	-4.675	85679.698	2.5	4D (5D)4G	87572.431	2.5	4SP(5G)6F	5723.6522	-4.559	105449.540	3.5	5D (5D)4G	107196.200	2.5	180DD	
5295.8088	-4.508	60270.339	3.5	D5S2(7S)4D	62158.110	4.5	4F(3F)4F	5738.8366	-1.262	105127.770	2.5	5D (5D)6G	103385.730	3.5	4F(5D)3[3]	
5300.8941	-1.376	104828.160	2.5	5D (5D)6D	102942.200	3.5	4F(5D)4[3]	5739.0623	-1.511	105711.730	2.5	5D (5D)6S	103969.760	3.5	4F(5D)1[3]	
5303.0592	-0.895	105211.140	4.5	5D (5D)4G	103325.950	5.5	4F(5D)3[5]	5739.2599	-1.688	104593.270	5.5	5D (5D)6G	102851.360	4.5	4F(5D)4[5]	
5304.3535	-1.776	105211.140	4.5	5D (5D)4G	103326.410	4.5	4F(5D)3[4]	5748.1367	-1.736	105065.630	3.5	5D (5D)6G	103326.410	4.5	4F(5D)3[4]	
5311.2577	-2.765	105288.530	1.5	5D (5D)6G	103406.250	2.5	4F(5D)3[2]	5752.1307	-2.085	105449.540	3.5	5D (5D)4G	103711.570	3.5	4F(5D)2[4]	
5315.2732	-4.395	49506.934	1.5	D6S (3P)4F	47626.076	0.5	4F(5D)4F	5757.2067	-1.538	105127.770	2.5	5D (5D)4D	103391.290	1.5	4F(5D)3[2]	
5328.9238	-2.168	104828.160	2.5	5D (5D)6D	102952.120	2.5	4F(5D)4[3]	5762.3502	-4.482	105155.090	4.5	4D (3F)4G	103420.160	5.5	4F(5D)3[6]	
5333.0457	-4.351	105291.010	3.5	4D (3F)4G	107165.600	3.5	170DD	5795.5549	-1.277	105065.630	3.5	5D (5D)6G	103340.640	3.5	4F(5D)3[4]	
5344.3640	-2.524	105288.530	1.5	5D (5D)6G	103417.910	1.5	4F(5D)3[1]	5797.6387	-3.487	104064.670	6.5	4D (3H)4I	102340.300	5.5	4SP(31)4K	
5344.7069	-2.295	105211.140	4.5	5D (5D)4G	103340.640	3.5	4F(5D)3[4]	5799.5558	-4.439	105711.730	2.5	5D (5D)6S	103987.930	2.5	4F(5D)1[3]	
5344.8498	-3.312	105288.530	1.5	5D (5D)6G	103418.080	0.5	4F(5D)3[0]	5803.7003	-4.453	99918.569	1.5	5S (3F)4F	98196.000	1.5	4SP(5D)4F	
5352.6335	-4.439	104315.370	6.5	4D (3H)2K	106183.100	6.5	4SP(31)2K	5804.4383	-3.212	104757.110	0.5	5D (5D)6D	103034.760	1.5	4F(5D)4[2]	
5360.0376	-2.809	105205.790	2.5	5D (5D)6G	103340.640	3.5	4F(5D)3[4]	5806.0395	-4.913	99573.225	4.5	5S (3F)4F	97851.350	4.5	4P (1G)2H	
5374.4452	-4.887	60384.370	0.5	D5S2(7S)4D	62244.520	1.5	4F(3F)4F	5807.2368	-1.522	105127.770	2.5	5D (5D)4D	103406.250	2.5	4F(5D)3[2]	
5379.3325	-1.087	105211.140	4.5	5D (5D)4G	103352.680	4.5	4F(5D)3[5]	5821.2699	-1.250	104828.160	2.5	5D (5D)6D	103110.790	1.5	4F(5D)4[1]	
5392.0985	-1.234	104705.420	3.5	5D (5D)6D	102851.360	4.5	4F(5D)4[5]	5836.2908	-1.460	105065.630	3.5	5D (5D)6G	103352.680	4.5	4F(5D)3[5]	
5392.3021	-1.135	105711.730	2.5	5D (5D)6S	103857.740	2.5	4F(5D)1[2]	5842.2697	-4.427	49100.976	0.5	D6S (3P)4F	47389.779	1.5	4P (5D)4P	
5400.2340	-3.415	105155.090	4.5	4D (3F)4G	107006.350	4.5	4SP(31)2H	5843.2838	-4.468	104593.270	5.5	5D (5D)6G	102882.370	4.5	4F(5D)4[4]	
5400.2832	-3.401	105288.530	1.5	5D (5D)6G	103437.280	0.5	4F(5D)3[1]	5844.5546	-4.640	60441.033	1.5	D5S2(7S)4D	62151.561	2.5	4P (3F)4F	
5407.0301	-2.284	104873.230	3.5	5D (5D)4D	103024.290	2.5	4F(5D)4[2]	5846.8379	-1.882	105127.770	2.5	5D (5D)4D	103417.910	1.5	4F(5D)3[1]	
5422.2210	-0.138	104863.430	5.5	5D (5D)4G	103019.670	6.5	4F(5D)4[7]	5852.8282	-4.332	105155.090	4.5	4D (3F)4G	108663.200	3.5	160DD	
5425.3107	-2.560	105711.730	2.5	5D (5D)6S	103869.020	1.5	4F(5D)1[2]	5878.0180	-1.843	105065.630	3.5	5D (5D)6G	103364.840	2.5	4F(5D)3[3]	
5430.4974	-1.725	105205.790	2.5	5D (5D)6G	103364.840	2.5	4F(5D)3[5]	5881.1301	-1.116	104593.270	5.5	5D (5D)6G	102893.380	5.5	4F(5D)4[6]	
5436.2557	-2.114	105230.290	0.5	5D (5D)4D	103391.290	1.5	4F(5D)3[2]	5883.2067	-3.947	100749.810	2.5	5S (3F)2F	102449.100	2.5	4SP(3D)2D	
5451.1656	-3.521	104174.270	5.5	4D (3H)4I	102340.300	5.5	4SP(31)4K	5919.6101	-0.495	105711.730	2.5	5D (5D)6S	104022.890	3.5	4F(5D)0[3]	
5465.8288	-3.678	105711.730	2.5	5D (5D)6G	103882.680	3.5	4F(5D)1[4]	5946.7586	-1.705	104705.420	3.5	5D (5D)6D	103024.290	2.5	4F(5D)4[2]	
5476.7281	-2.223	105211.140	4.5	5D (5D)4G	103385.730	3.5	4F(5D)3[3]	5949.6076	-4.293	60445.275	2.5	D5S2(7S)4D	62125.600	1.5	4P (3F)2D	
5483.8179	-0.803	104705.420	3.5	5D (5D)6D	102882.370	4.5	4F(5D)4[4]	5951.1128	-1.986	105065.630	3.5	5D (5D)6G	103385.730	3.5	4F(5D)3[3]	
5492.8267	-2.117	105205.790	2.5	5D (5D)6G	103385.730	3.5	4F(5D)3[3]	5956.7507	-3.556	104630.430	1.5	5D (5D)6P	102952.120	2.5	4F(5D)4[3]	
5498.1435	-1.266	104705.420	3.5	5D (5D)6D	102887.120	3.5	4F(5D)4[4]	6000.7973	-3.909	81639.260	2.5	D5S2(7S)2F	83305.251	3.5	4P (1F)2G	
5509.6579	-2.178	105205.790	2.5	5D (5D)6G	103391.290	1.5	4F(5D)3[2]	6018.8649	-0.387	105711.730	2.5	5D (5D)6S	104046.350	2.5	4F(5D)0[3]	
5514.9190	-4.836	60270.339	3.5	D5S2(7S)4D	62083.108	4.5	4F(3H)2G	6072.4977	-3.304	104757.110	0.5	5D (5D)4G	103406.250	2.5	4F(5D)3[2]	
5516.1027	-1.282	105230.290	0.5	5D (5D)4D	103417.910	1.5	4F(5D)3[1]	6077.1635	-4.838	88189.030	0.5	4D (5D)4F	86543.974	1.5	4P (3F)4D	
5516.6202	-3.412	105230.290	0.5	5D (5D)4D	103418.080	0.5	4F(5D)3[0]	6083.6205	-1.795	105288.530	1.5	5D (5D)6G	103645.220	1.5	4F(5D)2[2]	
5542.1257	-1.204	104828.160	2.5	5D (5D)6D	103024.290	2.5	4F(5D)4[2]	6085.4300	-2.109	105630.750	2.5	5D (5D)4G	103987.930	2.5	4F(5D)1[3]	
5553.3934	-4.798	88189.030	0.5	4D (5D)4F	86388.820	0.5	4F(3P)4D	6091.6682	-4.359	105524.461	4.5	4D (3F)4H	107165.600	3.5	170DD	
5555.4610	-2.333	105205.790	2.5	5D (5D)6G	103406.250	2.5	4F(5D)3[2]	6099.3689	-3.682	108804.667	3.5	5S (3D)4D	107165.600	3.5	170DD	
5568.9475	-4.410	60270.339	3.5	D5S2(7S)4D	62065.521	3.5	4F(3F)4F	6108.6004	-2.034	104588.710	1.5	5D (5D)6D	102952.120	2.5	4F(5D)4[3]	
5574.4810	-4.410	104828.160	2.5	5D (5D)6D	103034.760	1.5	4F(5D)4[2]	6127.8084	-3.104	104757.110	0.5	5D (5D)6D	103125.650	0.5	4F(5D)4[1]	
5575.6935	-1.740	105230.290	0.5	5D (5D)4D	103437.280	0.5	4F(5D)3[1]	6133.4138	-4.333	77230.900	4.5	D5S2(7S)2H	75600.931	3.5	4P (3D)2F	
5582.0133	-0.652	105211.140	4.5	5D (5D)4G	103420.160	5.5	4F(5D)3[6]	6134.0122	-3.644	104119.710	7.5	4D (3H)2K	102489.900	6.5	4SP(31)4K	
5589.5661	-2.276	105449.540	3.5	5D (5D)4G	103660.980	2.5	4F(5D)2[2]	6140.6622	-4.899	99824.045	2.5	5S (3F)4F	98196.000	1.5	4SP(5D)4F	
5591.6920	-3.833	105205.790	2.5	5D (5D)6G	103417.910	1.5	4F(5D)3[1]	6142.5298	-3.206	105288.530	1.5	5D (5D)6G	103660.980	2.5	4F(5D)2[2]	
5594.0386	-1.434	105127.770	2.5	5D (5D)4D	103340.640	3.5	4F(5D)3[4]									
5638.5888	-1.710	105630.750	2.5	5D (5D)4G	103857.740	2.5	4F(5D)1[2]									

6146.0417	-3.099	105063.550	5.5	4D	(3F)4G	106690.170	5.5	4SP	(3I)2H	6720.7664	-2.073	104828.160	2.5	5D	(5D)6D	103340.640	3.5	4F	(5D)3[4]
6155.6577	-2.947	108630.429	5.5	5S	(1I)2I	107006.350	4.5	4SP	(3I)2H	6720.8567	-2.274	104873.230	3.5	5D	(5D)3	103385.730	3.5	4F	(5D)3[4]
6170.2200	-4.947	60445.275	2.5	D5S2	(7S)4D	62065.521	3.5	4P	(3F)4F	6735.5277	-1.376	104426.460	2.5	5D	(5D)6F	102942.200	3.5	4F	(5D)4[3]
6171.7666	-2.307	103268.530	1.5	5D	(5D)6G	103268.690	1.5	4F	(5D)2[1]	6742.2961	-3.727	104868.700	4.5	5D	(5D)6G	103385.730	3.5	4F	(5D)3[2]
6197.3926	-4.709	88157.116	1.5	4D	(5D)4P	86543.974	1.5	4P	(3P)4D	6743.2966	-2.854	105127.570	2.5	5D	(5D)4D	103645.220	1.5	4F	(5D)2[2]
6200.5907	-3.442	103288.530	1.5	5D	(5D)6G	103267.220	0.5	4F	(5D)2[1]	6746.3045	-4.555	105524.461	4.5	4D	(3F)4H	107006.350	4.5	4SP	(3I)2H
6217.7518	-1.665	103630.750	2.5	5D	(5D)4G	104022.890	3.5	4F	(5D)0[3]	6751.4847	-4.614	99332.102	4.5	5S	(3H)2H	97851.350	4.5	4P	(1G)2H
6219.1520	-2.915	103598.852	5.5	4D	(3F)4H	107006.350	4.5	4SP	(3I)2H	6755.9194	-1.873	105449.540	3.5	5D	(5D)4G	103969.760	3.5	4F	(5D)1[3]
6221.9310	-4.512	103589.420	3.5	4D	(3F)4H	107196.200	2.5	180DD		6764.4219	-3.526	104588.710	1.5	5D	(5D)6D	103110.790	1.5	4F	(5D)4[1]
6224.4103	-3.335	104630.430	1.5	5D	(5D)6P	103024.290	2.5	4F	(5D)4[2]	6780.8473	-1.745	104426.460	2.5	5D	(5D)6F	102952.120	2.5	4F	(5D)4[3]
6265.2518	-2.758	104630.430	1.5	5D	(5D)6P	103034.760	1.5	4F	(5D)4[2]	6784.9892	-4.455	104366.820	6.5	5D	(5D)6G	102893.380	5.5	4F	(5D)4[6]
6287.2381	-1.736	103288.530	1.5	5D	(5D)6G	103268.440	2.5	4F	(5D)2[1]	6801.1445	-1.940	77861.625	4.5	5S	(5D)6D	79331.500	3.5	4SP	(5S)6P
6290.4029	-4.790	103291.010	3.5	4D	(3F)4G	103701.720	4.5	4F	(5D)2[1]	6803.2273	-1.961	104411.690	4.5	5D	(5D)6D	102942.200	3.5	4F	(5D)4[3]
6307.1591	-1.594	103230.290	0.5	5D	(5D)4D	103645.220	1.5	4F	(5D)2[1]	6806.3120	-4.622	88157.116	1.5	4D	(5D)4P	89625.940	1.5	4SP	(3F)6P
6309.8172	-4.645	103630.750	2.5	5D	(5D)4G	104046.350	2.5	4F	(5D)0[3]	6814.8676	-2.716	104873.230	3.5	5D	(5D)4D	103406.250	2.5	4F	(5D)3[3]
6325.9075	-1.269	104411.690	4.5	5D	(5D)6D	102831.320	5.5	4F	(5D)1[4]	6815.7503	-2.344	105127.770	2.5	5D	(5D)4D	103660.980	2.5	4F	(5D)2[2]
6345.2600	-0.503	103449.540	3.5	5D	(5D)4G	103873.990	4.5	4F	(5D)1[4]	6831.9127	-2.535	104828.160	2.5	5D	(5D)6D	103364.840	2.5	4F	(5D)3[1]
6348.4029	-3.330	104064.670	6.5	4D	(3H)4I	102489.900	6.5	4SP	(3I)4K	6833.1268	-1.643	104588.710	1.5	5D	(5D)6D	103125.650	0.5	4F	(5D)4[1]
6353.1230	-0.340	104593.270	5.5	5D	(5D)6G	103019.670	6.5	4F	(5D)4[7]	6834.7197	-4.183	98294.401	5.5	5S	(3H)4H	99757.120	4.5	4P	(1G)2G
6380.4516	-2.565	103449.540	3.5	5D	(5D)4G	103882.680	3.5	4F	(5D)1[4]	6839.9056	-3.617	105449.540	3.5	5D	(5D)4G	103987.930	2.5	4F	(5D)1[3]
6401.9431	-1.410	105230.290	0.5	5D	(5D)4D	103668.690	1.5	4F	(5D)2[1]	6851.7658	-2.765	105127.770	2.5	5D	(5D)4D	103668.690	1.5	4F	(5D)2[1]
6406.1685	-2.444	105205.790	2.5	5D	(5D)6G	103645.220	1.5	4F	(5D)2[1]	6852.9400	-4.116	87985.628	2.5	4D	(5D)4P	89444.458	2.5	4SP	(3P)6P
6407.1539	-3.037	104411.690	4.5	5D	(5D)6D	102851.360	4.5	4F	(5D)4[5]	6867.4957	-4.216	60270.339	3.5	D5S2	(7S)4D	61726.077	3.5	4P	(3P)4D
6432.9627	-1.573	105230.290	0.5	5D	(5D)4D	103676.220	0.5	4F	(5D)2[1]	6889.9678	-2.147	105127.770	2.5	5D	(5D)4D	103676.780	3.5	4F	(5D)2[3]
6433.4595	-1.702	104588.710	1.5	5D	(5D)6D	103034.760	1.5	4F	(5D)4[1]	6902.5743	-0.384	104868.500	4.5	5D	(5D)6G	103420.160	5.5	4F	(5D)3[6]
6463.1143	-1.082	104873.230	3.5	5D	(5D)4D	103326.410	4.5	4F	(5D)3[4]	6921.3071	-4.928	105414.180	2.5	4D	(3F)4G	103969.760	3.5	4F	(5D)1[3]
6471.5236	-1.733	105205.790	2.5	5D	(5D)6G	103660.980	2.5	4F	(5D)2[1]	6926.8620	-2.855	104863.430	5.5	5D	(5D)4G	103420.160	5.5	4F	(5D)3[6]
6481.0051	-1.386	104366.820	4.5	5D	(5D)6G	103325.950	5.5	4F	(5D)3[1]	6930.8559	-1.595	104828.160	2.5	5D	(5D)6F	103385.730	3.5	4F	(5D)3[6]
6482.9383	-1.195	104868.500	4.5	5D	(5D)6G	103326.410	4.5	4F	(5D)3[4]	6931.7209	-0.385	104863.430	5.5	5D	(5D)4G	103421.180	6.5	4F	(5D)3[6]
6494.5200	-2.082	104426.460	2.5	5D	(5D)6F	102887.120	3.5	4F	(5D)4[1]	6948.8317	-0.968	104380.940	3.5	5D	(5D)6F	102942.200	3.5	4F	(5D)4[3]
6502.3769	-1.181	104863.430	5.5	5D	(5D)4G	103325.950	5.5	4F	(5D)3[1]	6957.6750	-2.576	104828.160	2.5	5D	(5D)6F	102942.200	3.5	4F	(5D)4[3]
6503.9844	-3.597	105205.790	2.5	5D	(5D)6G	103668.690	1.5	4F	(5D)2[1]	6987.2409	-2.215	105288.530	1.5	5D	(5D)6G	103857.740	2.5	4F	(5D)1[2]
6504.3229	-2.258	104863.430	5.5	5D	(5D)4G	103326.410	4.5	4F	(5D)3[4]	6994.3781	-2.152	105127.770	2.5	5D	(5D)4D	103698.440	2.5	4F	(5D)2[3]
6510.7616	-1.555	104366.820	6.5	5D	(5D)6G	102831.320	5.5	4F	(5D)4[1]	6996.8747	-2.648	104380.940	3.5	5D	(5D)6F	102952.120	2.5	4F	(5D)4[3]
6512.5429	-4.777	105159.090	4.5	4D	(3F)4G	106690.170	5.5	4SP	(3I)2H	7007.5172	-3.117	105449.540	3.5	5D	(5D)4G	104022.890	3.5	4F	(5D)0[3]
6515.5989	-2.926	105211.140	4.5	5D	(5D)4G	103676.780	3.5	4F	(5D)2[3]	7030.8771	-1.552	104828.160	2.5	5D	(5D)6D	103406.250	2.5	4F	(5D)3[2]
6523.1239	-1.369	104873.230	3.5	5D	(5D)4D	103340.640	3.5	4F	(5D)3[4]	7042.7644	-2.533	105288.530	1.5	5D	(5D)6G	103869.020	1.5	4F	(5D)1[2]
6532.0316	-1.729	105211.140	4.5	5D	(5D)4G	103680.640	4.5	4F	(5D)2[4]	7055.1400	-4.874	105291.010	3.5	4D	(3F)4G	103873.990	4.5	4F	(5D)1[4]
6535.9605	-2.123	104380.940	3.5	5D	(5D)6F	102851.360	4.5	4F	(5D)4[5]	7059.2250	-1.228	105127.770	2.5	5D	(5D)4D	103711.570	3.5	4F	(5D)2[4]
6537.0716	-1.283	104411.690	4.5	5D	(5D)6D	102882.370	4.5	4F	(5D)4[4]	7072.8643	-4.900	99918.569	1.5	5S	(3F)4F	98505.100	2.5	4SP	(3D)4D
6545.5989	-2.926	105211.140	4.5	5D	(5D)4G	103676.780	3.5	4F	(5D)2[3]	7089.0086	-1.847	104828.160	2.5	5D	(5D)6D	103417.910	1.5	4F	(5D)3[1]
6548.8477	-0.648	104366.820	6.5	5D	(5D)6G	103340.640	3.5	4F	(5D)3[4]	7117.2708	-2.784	105065.630	3.5	5D	(5D)6G	103660.980	2.5	4F	(5D)2[2]
6574.7752	-1.951	104873.230	3.5	5D	(5D)4D	103352.680	4.5	4F	(5D)3[1]	7129.8590	-1.094	104426.460	2.5	5D	(5D)6F	103024.290	2.5	4F	(5D)4[2]
6578.7123	-4.246	104630.430	1.5	5D	(5D)6P	103691.050	5.5	4F	(5D)2[1]	7134.1685	-2.493	105288.530	1.5	4D	(3F)4H	106690.170	5.5	4SP	(3I)2H
6584.4751	-1.063	104411.690	4.5	5D	(5D)6D	102893.380	5.5	4F	(5D)4[6]	7183.4982	-1.573	104426.460	2.5	5D	(5D)6F	103034.760	1.5	4F	(5D)4[2]
6595.2913	-1.779	104868.500	4.5	5D	(5D)6G	103352.680	4.5	4F	(5D)3[1]	7198.2392	-1.916	105065.630	3.5	5D	(5D)6G	103676.780	3.5	4F	(5D)2[3]
6617.4247	-3.203	104863.430	5.5	5D	(5D)4G	103352.680	4.5	4F	(5D)3[1]	7200.3648	-3.568	103878.340	7.5	4D	(3H)4I	102489.900	6.5	4SP	(3I)4K
6623.2556	-1.996	105211.140	4.5	5D	(5D)4G	103701.720	4.5	4F	(5D)2[1]	7218.3008	-1.127	105065.630	3.5	5D	(5D)6G	103680.640	4.5	4F	(5D)2[4]
6627.7782	-1.891	104873.230	3.5	5D	(5D)4D	103364.840	2.5	4F	(5D)3[1]	7249.6026	-1.436	104705.420	3.5	5D	(5D)6D	103326.410	4.5	4F	(5D)2[3]
6632.3511	-1.848	105205.790	2.5	5D	(5D)6G	103698.440	2.5	4F	(5D)2[1]	7319.6135	-2.009	104757.110	0.5	5D	(5D)6D	103391.290	1.5	4F	(

WL(NM)	LOGGF	EVEN E	J	LABEL	ODD E	J	LABEL	WL(NM)	LOGGF	EVEN E	J	LABEL
7383.1843	-1.740	105065.630	3.5	5D (5D)6G	103711.570	3.5	4F(5D)2[4]	8382.8261	-0.819	104873.230	3.5	5D (5D)4D
7390.3887	-0.844	104705.420	3.5	5D (5D)6D	103352.680	4.5	4F(5D)3[5]	8388.9458	-2.777	104868.500	4.5	5D (5D)6G
7416.1006	-2.739	105205.790	2.5	5D (5D)6G	103857.740	2.5	4F(5D)1[2]	8389.5090	-0.714	105065.630	3.5	5D (5D)6G
7419.3258	-4.828	86124.301	4.5	4D (5D)4F	87471.765	4.5	4F(5D)6F	8413.4437	-4.210	103211.140	4.5	5D (5D)4G
7421.0552	-2.809	104366.820	6.5	5D (5D)6F	103019.670	6.5	4F(5D)4[7]	8413.7411	-4.980	98568.912	3.5	5S (3H)4H
7429.7857	-4.383	87985.628	2.5	4D (5D)4F	89331.195	1.5	5P (5D)6D	8416.2061	-1.990	104868.500	4.5	5D (5D)6G
7457.4248	-2.245	104705.420	3.5	5D (5D)6D	103364.840	2.5	4F(5D)3[3]	8451.1387	-1.600	105065.630	3.5	5D (5D)6G
7465.1094	-3.571	104757.110	0.5	5D (5D)6D	103417.110	1.5	4F(5D)3[1]	8451.2102	-2.287	104828.160	2.5	5D (5D)6D
7466.0571	-2.010	104757.110	0.5	5D (5D)6D	103418.080	0.5	4F(5D)3[0]	8451.4959	-1.612	105205.790	2.5	5D (5D)6G
7467.6800	-4.302	105524.461	4.5	4D (3F)4H	106863.200	3.5	160DD	8452.2819	-4.981	104863.430	5.5	5D (5D)4G
7476.5542	-2.173	105211.140	4.5	5D (5D)4G	103873.990	4.5	4F(5D)1[4]	8454.6408	-1.420	104888.710	1.5	5D (5D)6D
7478.6796	-3.942	105205.790	2.5	5D (5D)6G	103869.020	1.5	4F(5D)1[2]	8458.6825	-4.117	99573.225	4.5	5S (3F)4F
7488.2025	-3.510	104315.370	6.5	4D (3H)2K	102980.300	5.5	4F(5D)4F	8486.1464	-2.726	104120.270	2.5	5D (5D)6F
7496.0238	-4.163	99688.337	3.5	5S (3F)4F	98354.660	2.5	4F(5D)4F	8490.6149	-0.535	104868.500	4.5	5D (5D)6G
7525.4614	-4.123	105211.140	4.5	5D (5D)4G	103882.680	3.5	4F(5D)1[4]	8514.9931	-4.443	88157.116	1.5	4D (5D)4F
7536.5808	-0.022	104366.820	6.5	5D (5D)6G	103040.320	7.5	4F(5D)4[7]	8522.0265	-1.780	104593.270	5.5	5D (5D)6G
7555.8907	-0.524	105205.790	2.5	5D (5D)6G	103882.680	3.5	4F(5D)1[4]	8527.3329	-2.379	104863.430	5.5	5D (5D)4G
7574.6683	-1.650	104757.110	0.5	5D (5D)6D	103437.280	0.5	4F(5D)3[1]	8529.4427	-0.351	104593.270	5.5	5D (5D)6G
7575.4719	-1.330	104705.420	3.5	5D (5D)6D	103385.730	3.5	4F(5D)3[3]	8533.6656	-1.020	104873.230	3.5	5D (5D)4D
7579.7509	-4.146	99824.045	2.5	5S (3F)4F	98505.100	2.5	4F(5D)4D	8538.8406	-1.318	104588.710	1.5	5D (5D)6D
7598.6186	-1.071	104426.460	2.5	5D (5D)6F	103110.790	1.5	4F(5D)4[1]	8540.0806	-1.713	104588.710	1.5	5D (5D)6D
7606.8344	-4.277	88157.116	1.5	4D (5D)4F	89471.365	0.5	5P (5D)6D	8558.2113	-1.000	104120.270	2.5	5D (5D)6F
7686.6635	-0.531	105288.530	1.5	5D (5D)6G	103987.930	2.5	4F(5D)1[3]	8565.3237	-1.403	104828.160	2.5	5D (5D)6D
7695.1242	-2.099	104705.420	3.5	5D (5D)6D	103406.250	2.5	4F(5D)3[2]	8568.2601	-1.405	104868.500	4.5	5D (5D)6G
7707.9572	-4.309	99688.337	3.5	5S (3F)4F	98391.330	3.5	4F(5D)4F	8605.5542	-4.833	104863.430	5.5	5D (5D)4G
7741.9152	-4.164	105398.852	5.5	4D (3F)4H	106690.170	5.5	4F(5D)3[2]	8606.0246	-2.361	104873.230	3.5	5D (5D)4D
7760.6841	-4.741	99824.045	2.5	5S (3F)4F	98535.850	3.5	4F(5D)4F	8622.2796	-2.982	104828.160	2.5	5D (5D)6D
7805.4801	-4.721	80845.275	2.5	D5S2(7S)4D	61726.077	3.5	4P (3F)4F	8622.5027	-3.363	105205.790	2.5	5D (5D)6G
7871.6837	-3.530	105127.770	2.5	5D (5D)4D	103857.740	2.5	4F(5D)1[2]	8633.1504	-2.407	105127.770	2.5	5D (5D)4D
7888.5163	-1.182	104419.710	7.5	4D (3H)2K	102851.200	7.5	4F(5D)3[4K]	8641.2095	-4.776	104868.500	4.5	5D (5D)6G
7891.3807	-2.195	104593.270	5.5	5D (5D)6G	103325.950	5.5	4F(5D)3[5]	8674.5226	-3.175	99688.337	3.5	5S (3F)4F
7899.2995	-2.273	104630.430	1.5	5D (5D)6F	103326.410	4.5	4F(5D)3[4]	8682.4857	-1.706	104588.710	1.5	5D (5D)6D
7933.4634	-4.336	103600.440	6.5	4D (3H)4H	102340.300	5.5	4F(5D)3[3]	8682.8628	-1.051	104828.160	2.5	5D (5D)6D
7942.2240	-3.374	105127.770	2.5	5D (5D)4D	103869.020	1.5	4F(5D)1[4K]	8697.4419	-0.803	104000.810	3.5	5D (5D)6F
8029.3589	-1.888	105127.770	2.5	5D (5D)4D	103882.680	3.5	4F(5D)1[4]	8705.1742	-4.884	99918.569	1.5	5S (3F)4F
8042.3420	-4.906	105763.270	5.5	4D (3F)2H	107006.350	4.5	4F(5D)3[2H]	8747.0346	-4.052	87985.628	2.5	4D (5D)4F
8048.1690	-1.747	105288.530	1.5	5D (5D)6G	104046.350	4.5	4F(5D)0[3]	8770.7701	-2.767	105127.770	2.5	4D (5D)4F
8053.3556	-4.138	105211.140	4.5	5D (5D)4G	103969.760	3.5	4F(5D)1[3]	8817.2683	-4.394	87985.628	2.5	4D (5D)4F
8058.4839	-3.407	104593.270	5.5	5D (5D)6G	103352.680	4.5	4F(5D)3[5]	8849.3384	-2.625	104828.160	2.5	5D (5D)6D
8067.9136	-2.485	104630.430	1.5	5D (5D)6F	103391.290	1.5	4F(5D)3[2]	8931.9597	-0.482	103950.590	4.5	5D (5D)6F
8088.2135	-1.247	105205.790	2.5	5D (5D)6G	103969.760	3.5	4F(5D)1[3]	8938.5882	-2.011	104000.810	3.5	5D (5D)6F
8107.1034	-1.231	104120.270	2.5	5D (5D)6F	102887.120	3.5	4F(5D)4[4]	8953.3979	-1.307	104828.160	2.5	5D (5D)6D
8166.5070	-2.190	104630.430	1.5	5D (5D)6F	103406.250	2.5	4F(5D)3[2]	8969.1740	-4.643	73492.215	3.5	D5S2(7S)4F
8168.5755	-2.722	104630.430	1.5	5D (5D)6F	103364.840	2.5	4F(5D)4[4]	8971.8786	-3.390	100749.810	2.5	5S (3F)2F
8175.9239	-2.810	104174.270	5.5	4D (3H)4I	102951.500	4.5	4F(5D)3[1]	8976.7122	-0.829	104000.810	3.5	5D (5D)6F
8207.5993	-4.891	87985.628	2.5	4D (5D)4F	86767.577	2.5	4P (3F)4D	8991.2442	-2.888	104757.110	0.5	5D (5D)6D
8208.8865	-1.439	105205.790	2.5	5D (5D)6G	103987.930	2.5	4F(5D)1[3]	9002.1742	-4.378	103600.440	6.5	4D (3H)4H
8219.0096	-3.566	103600.440	6.5	4D (3H)4H	104816.800	5.5	4F(5D)1[4H]	9045.0153	-0.617	103936.600	5.5	4F(5D)6F
8245.0389	-1.830	104630.430	1.5	5D (5D)6F	103417.910	1.5	4F(5D)3[1]	9048.2899	-1.472	105127.770	2.5	5D (5D)4D
8246.1950	-3.426	104630.430	1.5	5D (5D)6F	103418.080	0.5	4F(5D)3[0]	9094.7978	-0.234	103950.590	4.5	5D (5D)6F
8246.8753	-1.881	104873.230	3.5	5D (5D)4D	103660.980	2.5	4F(5D)2[2]	9118.6889	-0.685	103936.600	5.5	5D (5D)6F
8276.6363	-3.939	103608.909	4.5	5S (3G)2G	104816.800	5.5	4F(5D)1[4H]	9121.7673	-1.861	104120.270	2.5	5D (5D)6F
8276.6432	-3.708	105065.630	3.5	5D (5D)6G	103857.740	2.5	4F(5D)1[2]	9122.6830	-1.874	105065.630	3.5	5D (5D)6G
8349.0125	-2.325	104588.710	1.5	5D (5D)6D	103391.290	1.5	4F(5D)3[1]	9139.8222	-2.643	78237.685	3.5	5S (3D)6D
8355.7813	-1.119	104873.230	3.5	5D (5D)4D	103676.780	3.5	4F(5D)2[3]	9157.6382	-4.709	99688.337	3.5	5S (3F)4F
8373.1371	-2.855	104174.270	5.5	4D (3H)4I	102980.300	5.5	4F(5D)2[3]	9185.1258	-1.169	104757.110	0.5	5D (5D)6D
8378.8916	-1.918	104630.430	1.5	5D (5D)6F	103437.280	0.5	4F(5D)3[1]	9207.7980	-0.403	104426.460	2.5	5D (5D)6F
								9207.7980	-0.403	104411.690	4.5	5D (5D)6D

WL(NM)	LOGF	EVEN E	J	LABEL	ODD E	J	LABEL
9209.7489	-1.154	104120.270	2.5	5D (5D)6P	103034.760	1.5	4F(5D)4[2]
9211.7007	-0.966	104411.690	4.5	5D (5D)6D	103326.410	4.5	4F(5D)3[4]
9212.0403	-1.558	103936.600	5.5	5D (5D)6F	102851.360	4.5	4F(5D)4[5]
9219.4312	-2.781	104064.670	6.5	4D (3H)4I	102980.300	5.5	4SP(3I)4I
9244.5808	-2.048	105127.770	2.5	5D (5D)4D	104046.350	2.5	4F(5D)0[3]
9249.1138	-1.703	104757.110	0.5	5D (5D)6D	103676.220	0.5	4F(5D)2[1]
9276.4912	-3.002	105065.630	3.5	5D (5D)6G	103987.930	2.5	4F(5D)1[3]
9334.0876	-1.794	104411.690	4.5	5D (5D)6D	103340.640	3.5	4F(5D)3[4]
9358.8161	-1.173	103950.590	4.5	5D (5D)6F	102882.370	4.5	4F(5D)4[4]
9385.8785	-4.374	103751.660	5.5	4D (3H)4H	104816.800	5.5	4SP(3I)4H
9400.6174	-1.379	103950.590	4.5	5D (5D)6H	102887.120	3.5	4F(5D)4[4]
9416.9991	-1.401	104426.460	2.5	5D (5D)6F	103364.840	2.5	4F(5D)3[3]
9440.2079	-1.536	104411.690	4.5	5D (5D)6D	103352.680	4.5	4F(5D)3[5]
9441.9019	-2.074	103600.440	6.5	4D (3H)4H	104659.260	6.5	4SP(3I)4H
9443.7749	-1.161	104000.810	3.5	5D (5D)6P	102942.200	3.5	4F(5D)4[3]
9456.2808	-2.048	103950.590	5.5	5D (5D)6F	102893.380	5.5	4F(5D)4[6]
9467.3044	-4.257	87985.628	2.5	4D (5D)4P	86929.649	3.5	4P (3P)4D
9480.3131	-0.799	104380.940	3.5	5D (5D)6F	103326.410	4.5	4F(5D)3[4]
9483.0109	-1.764	103936.600	5.5	5D (5D)6F	102882.370	4.5	4F(5D)4[4]
9485.9332	-4.792	99824.045	2.5	5S (3F)4F	98770.140	1.5	4SP(5D)4D
9490.7531	-4.967	104174.270	5.5	4D (3H)4I	103120.900	6.5	4SP(3I)4I
9533.1076	-1.191	104000.810	3.5	5D (5D)6P	102952.120	2.5	4F(5D)4[3]
9544.6209	-2.389	78237.685	3.5	5S (5D)6D	79285.110	2.5	4SP(5S)6P
9571.8994	-3.310	104705.420	3.5	5D (5D)6D	103660.980	2.5	4F(5D)2[2]
9583.0933	-2.879	103936.600	5.5	5D (5D)6F	102893.380	5.5	4F(5D)4[6]
9587.5046	-3.109	105065.630	3.5	5D (5D)6G	104022.890	3.5	4F(5D)0[3]
9596.8830	-4.875	73393.745	4.5	D5S2(7S)4F	72352.024	3.5	4P (3D)4F
9606.0213	-1.977	104426.460	2.5	5D (5D)6F	103385.730	3.5	4F(5D)3[3]
9609.9919	-0.997	104380.940	3.5	5D (5D)6F	103340.640	3.5	4F(5D)3[4]
9637.0884	-4.126	99373.225	4.5	5S (3F)4F	98535.850	3.5	4SP(5D)4F
9657.6162	-1.864	104426.460	2.5	5D (5D)6F	103391.290	1.5	4F(5D)3[2]
9718.9246	-1.828	104705.420	3.5	5D (5D)6D	103676.780	3.5	4F(5D)2[3]
9722.5163	-2.301	104380.940	3.5	5D (5D)6D	103352.680	4.5	4F(5D)3[5]
9733.1178	-3.285	103878.340	7.5	4D (3H)4I	102851.200	7.5	4SP(3I)4K
9744.3122	-2.183	104411.690	4.5	5D (5D)6D	103385.730	3.5	4F(5D)3[3]
9755.5325	-0.952	104705.420	3.5	5D (5D)6F	103680.640	4.5	4F(5D)2[4]
9799.2321	-3.538	104426.460	2.5	5D (5D)6F	103406.250	2.5	4F(5D)3[2]
9838.8688	-1.607	104380.940	3.5	5D (5D)6F	103364.840	2.5	4F(5D)3[3]
9844.7790	-2.416	104873.230	3.5	5D (5D)4D	103857.740	2.5	4F(5D)1[2]
9903.3905	-1.636	104120.270	2.5	5D (5D)6P	103110.790	1.5	4F(5D)4[1]
9912.5225	-2.927	104426.460	2.5	5D (5D)6F	103417.910	1.5	4F(5D)3[1]
9914.0953	-1.361	103950.590	4.5	5D (5D)6F	102942.200	3.5	4F(5D)4[3]
9927.9773	-2.755	104705.420	3.5	5D (5D)6D	103698.440	2.5	4F(5D)2[3]
9960.4210	-2.475	104705.420	3.5	5D (5D)6D	103701.720	4.5	4F(5D)2[5]

Table 8. Comparison with other lifetimes.

	E	J	AS	BELS	LIFETIMES (NS) SW	A	DMS	K	RATIO K/OTHER
4P (5D)6D	38858.958 38660.043 38458.981	2.5 3.5 4.5	{ 3.9 +/- 0.4 } [^] { { 3.9 +/- 0.4 }	4.0 +/- 0.4				2.91 2.92 2.94	.75 .73 .75
4P (5D)6F	42439.822 42401.302 42237.033 42114.818	0.5 1.5 3.5 4.5	{ 3.2 +/- 0.3 } { 3.2 +/- 0.3 } { 3.2 +/- 0.3 } { 3.2 +/- 0.3 }	3.5 +/- 0.3				2.72 2.72 2.70 2.67	.85 .85 .84 .83,.76
4P (5D)6P	43620.957 42658.224	1.5 3.5	{ 3.8 +/- 0.3 } { 3.8 +/- 0.3 }	4.0 +/- 0.4				2.95 2.99	.78,.74 .79
4P (3H)2I	62662.244 62293.164	5.5 6.5		4.83 +/- 0.4 4.6 +/- 1.0	4.8 +/- 0.3 4.8 +/- 0.3			3.68 3.68	.76,.77 .80,.77
4P (3F)2G	65109.679 64831.943	3.5 4.5	{ 4.3 +/- 0.3 } { 4.3 +/- 0.3 }	3.81 +/- 0.4 4.24 +/- 0.4				3.13 3.02	.82,.73 .71,.70
4P (3H)2H	65556.280 65363.595	4.5 5.5	{ 3.6 +/- 1.0 } { 3.6 +/- 1.0 }	{ 3.8 +/- 0.6 } { 3.8 +/- 0.6 }				2.80 2.95	.78,.78 .82,.78
4P (1I)2K	70986.677 71432.680	6.5 7.5		4.68 +/- 0.4 4.44 +/- 0.4	4.5 +/- 0.3 4.5 +/- 0.3			3.39 3.28	.72,.75 .74,.73
4P (1G)2G	73143.289 73091.594	3.5 4.5					{ 1.39 +/- 0.30 } { 1.39 +/- 0.30 }	1.88 1.97	1.35 1.42
4SP (5S)6P	79246.170 79285.110 79331.500	1.5 2.5 3.5					{ 0.88 +/- 0.04 } { 0.88 +/- 0.04 } { 0.88 +/- 0.04 }	0.59 0.59 0.60	.67 .67 .68
5P (5D)6F	87635.922 87602.250 87572.430 87537.648 87411.766 87340.984	0.5 1.5 2.5 3.5 4.5 5.5					{ 1.89 +/- 0.30 } { 1.89 +/- 0.30 } { 1.89 +/- 0.30 } { 1.89 +/- 0.30 } { 1.89 +/- 0.30 } { 1.89 +/- 0.30 }	4.33 3.44 2.87 2.48 2.24 2.10	1.87 1.82 1.52 1.31 1.19 1.11

^ Levels in brackets were not resolved

	WL(NM)	J10	ELO	JUP	EUP	K	KP	NBS	MOSM	MS	AS	SW	DMPY	NS	CB
V	105.5262	4.5	0.000	3.5	94763.219	-0.839	-2.981						-1.000		
A	106.3972	4.5	0.000	3.5	93987.457	-1.621	-1.884					-1.430	-1.420		
C	109.6877	4.5	0.000	3.5	91167.937	-0.189	-1.073					-0.540	-0.432		
	110.6360	4.5	0.000	4.5	90386.528	-1.775	-0.634					-0.670	-1.252		
	112.1975	4.5	0.000	3.5	89128.561	-0.544	-0.795					-1.640	-0.699		
	113.3665	4.5	0.000	3.5	88209.450	-1.210	-0.470					-1.370	-1.201		
	114.2366	4.5	0.000	3.5	87537.652	-1.405	-0.450					-0.540	-1.161		
	114.3226	4.5	0.000	4.5	87471.765	-0.693	-0.450					-0.670	-0.824		
	114.4938	4.5	0.000	5.5	87340.983	0.046	-1.096					-1.370	0.176		
	126.0533	4.5	0.000	3.5	79331.500	-0.501	-0.470						-0.699		
A	202.9184	4.5	15844.650	3.5	65109.679	-1.638	-1.446	-1.430				-1.430			
I	204.0690	4.5	15844.650	4.5	64831.943	-0.498	-0.450	-0.540				-0.540			
R	205.1032	3.5	16369.360	3.5	65109.679	-0.690	-0.634	-0.670				-0.670			
	229.6662	4.5	21581.638	3.5	65109.679	-1.450	-0.994	-1.630				-1.640			
	230.3354	5.5	21430.359	4.5	64831.943	-1.160	-0.795	-1.370				-1.370			
	232.7397	2.5	667.683	1.5	43620.957	-0.581	-0.470	-0.732					-0.416		
	233.2800	3.5	384.790	2.5	43238.586	-0.142	-0.037	-0.276				-0.010	0.027		0.090
	233.8008	1.5	862.613	1.5	43620.957	-0.342	-0.240	-0.486				-0.160	-0.186		-0.110
	234.3496	4.5	0.000	3.5	42658.224	0.160	0.258	0.033			0.079	0.210	0.326		0.220
	234.4283	0.5	977.053	1.5	43620.957	-0.411	-0.326	-0.586				-0.240	-0.279		0.000
	234.8115	4.5	1872.567	3.5	44446.878	-0.284	-0.280	-0.326				-0.060	-0.052		-0.150
	234.8303	2.5	667.683	2.5	43238.586	-0.207	-0.104	-0.766				-0.250	-0.416		-0.140
	235.9106	1.5	862.613	2.5	43238.586	-0.511	-0.463	-0.390				-0.180	-0.143		0.090
	235.9999	4.5	1872.567	4.5	44232.512	-0.574	-0.560	-1.623			-1.600		-2.000		0.090
	236.0293	3.5	2430.097	2.5	44784.761	-0.460	-0.170	-0.390				-0.180	-0.143		0.090
	236.4829	3.5	384.790	3.5	42658.224	-0.302	-0.206	-1.623					-0.143		0.090
	236.6867	4.5	0.000	3.5	42237.033	-2.933	-2.006	-0.403				-0.270	-0.292		-0.200
	236.8596	2.5	2837.950	1.5	45044.168	-0.626	-0.610	-0.403				-1.660	-0.609		0.260
	236.9240	4.5	22637.205	4.5	64831.943	-1.459	-1.375	-1.097				-0.490	-0.609		0.040
	237.3736	4.5	0.000	4.5	42114.818	-0.420	-0.401	0.516			0.530		0.663		0.890
	237.5193	1.5	3117.461	0.5	45206.450	-0.783	-0.770	-1.086				-0.060	-1.143		0.060
	237.9003	3.5	22810.357	4.5	64831.943	-1.041	-0.707	-0.403				-0.390	-0.292		-0.030
	237.9276	3.5	2430.097	3.5	44446.878	-0.910	-0.713	-0.403				-0.850	-0.018		0.350
	238.0762	2.5	667.683	3.5	42658.224	-0.619	-0.117	-0.188				-0.090	-0.842		0.260
	238.2039	4.5	0.000	5.5	41968.046	0.591	0.613	-0.968				-0.860	-0.842		0.350
	238.3062	3.5	384.790	2.5	42334.822	-1.282	-1.226	-0.968				-0.470	-0.842		0.350
	238.3245	2.5	2837.950	2.5	44784.761	-0.894	-0.890	-0.968				0.470	0.514		0.920
	238.4388	1.5	3117.461	1.5	45044.168	-1.053	-1.050	-0.968				-0.060	0.006		0.470
	238.8389	4.5	20805.770	5.5	62662.244	-0.649	-0.687	-0.956				-0.820	-0.818		-0.210
	238.8630	3.5	384.790	3.5	42237.033	-0.096	-0.117	0.168				0.220	0.311		0.940
	239.5420	2.5	667.683	1.5	42401.302	-0.950	-0.928	-0.212				-0.100	-0.066		0.460
	239.5626	3.5	384.790	4.5	42114.818	0.446	0.470	-0.101				0.030	0.069		0.450
	239.9242	2.5	667.683	2.5	42334.822	-0.071	-0.062	-0.372				-0.260	-0.222		0.330
	240.4432	1.5	862.613	0.5	42439.822	-0.898	-0.878	-0.440				-0.340	-0.296		0.360
	240.4887	2.5	667.683	3.5	42237.033	0.236	0.278	-0.440				-2.010	-0.296		0.360
	240.6662	1.5	862.613	1.5	42401.302	-0.140	-0.121	-0.188				-0.850	-0.018		0.350
	241.4105	6.5	21251.608	5.5	62662.244	-1.835	-1.687	-0.968				-0.860	-0.842		0.350
	241.0520	1.5	862.613	2.5	42334.822	-0.001	0.032	-0.968				-0.470	-0.842		0.350
	241.1069	0.5	977.053	0.5	42439.822	-0.294	-0.270	-0.372				0.470	0.514		0.920
	241.3311	0.5	977.053	1.5	42401.302	-0.365	-0.335	-0.440				-0.100	0.006		0.470
	242.4146	6.5	21251.608	5.5	62662.244	-1.835	-1.687	-0.968				-0.860	-0.842		0.350
	242.4146	4.5	22637.205	5.5	63876.317	0.398	0.410	-0.440				-0.100	-0.066		0.460
	243.0079	3.5	22810.357	4.5	63948.790	0.259	0.230	-0.440				-0.340	-0.296		0.360
	243.3500	4.5	21581.638	5.5	62662.244	-0.826	-0.916	-0.440				-2.010	-0.296		0.360
	244.4516	2.5	20830.582	3.5	61726.077	0.276	0.400	-0.440				-1.020	-0.296		0.360
	244.5573	1.5	21812.055	2.5	62689.880	0.118	0.140	-0.440				-1.020	-0.296		0.360
	245.8784	4.5	25805.328	5.5	66463.528	0.457	0.470	-0.440				-1.020	-0.296		0.360
	249.3184	5.5	21430.359	6.5	61527.616	0.428	0.280	-0.440				-1.020	-0.296		0.360

Table 9. Comparison with other gf values.

Here we tabulate log gf values from the following sources:

- AS: Assousa and Smith (1972).
- BGHR: Baschek, Garz, Holweger, and Richter (1970).
- BR: Bridges (1973).
- BSS: Blackwell, Shallis, and Simmons (1980).
- CB: Corliss and Bozman (1962).
- DMPY: deBoer, Morton, Pottasch, and York (1974).
- G: Groth (1961).
- GHP: Grasdalen, Huber, and Parkinson (1969).
- HU: Huber (1974).
- K: This work.
- KP: Kurucz and Peytremann (1975).
- KU: Kuzmickyte and Uspalis (1969, 1970, 1973).
- MOI: Moity (1979).
- MOSM: Morton and Smith (1973).
- MS: Morozova and Startsev (1964).
- NBS: Martin and Fuhr (1979).
- NS: Nussbaumer and Storey (1980).
- P: Phillips (1979).
- R: Roder (1962).
- SW: Smith and Whaling (1973).
- WA: Warner (1967).
- WAR: Warner (1967) corrected by Smith (1976).
- WBW: Wolnick, Berthel, and Wares (1971).

WL(NM)	J10	ELO	JUP	EUP	K	KP	WAR	WA	NBS	MOSM	MS	AS	SW	HU	NS	CB	KU
254.5444	3.5	27314.922	4.5	66589.008	-0.849	-0.878	-0.630	-0.682									
254.6671	3.5	22810.357	3.5	62065.521	-0.243	-0.018	0.070	-0.090									
254.7339	3.5	21711.917	3.5	60956.781	-0.412	-0.384	-2.180	-2.367									
254.8325	1.5	21812.055	2.5	61041.748	-1.383	-1.932	-0.670	-0.855									
254.8591	4.5	21581.638	4.5	60807.230	-0.229	-0.061	-0.480	-0.671									-0.229
254.8744	1.5	21812.055	0.5	61035.287	-0.287	-0.228	-0.070	-0.255									
254.8923	5.5	32909.905	4.5	72130.390	-0.470	-0.494	-0.130	-0.049									
254.9084	4.5	30388.542	3.5	69606.552	0.167	0.203	0.440	0.461									
254.9395	1.5	23031.300	1.5	62244.520	-0.167	-0.132	0.110	-0.046									
254.9461	2.5	22939.358	2.5	62151.561	-0.113	-0.077	-0.148	-0.148									
254.9775	3.5	27314.922	2.5	66522.304	-1.153	-1.087	-0.960	-1.013								1.070	
255.0026	4.5	26352.766	4.5	65556.280	0.246	0.240	0.460	0.383									
255.0684	5.5	26170.181	5.5	65363.595	0.213	0.036	0.370	0.289									
255.1204	4.5	33466.463	3.5	72651.876	-0.300	-0.400	-0.140	-0.046									
255.3741	2.5	20316.960	1.5	59663.456	-2.286	-1.360	-1.595	-1.830					-1.840				
255.4945	3.5	25981.629	3.5	65109.679	-1.528	-1.914	-1.210	-1.297									
255.5068	2.5	22939.358	3.5	62065.521	-0.799	-0.525	-0.580	-0.740									
255.5454	1.5	23031.300	2.5	62151.561	-0.748	-0.626	-0.610	-0.768									
255.7084	3.5	21711.917	4.5	60807.230	-1.101	-0.582	-1.330	-1.521									
255.7506	4.5	22637.205	3.5	61726.077	-0.661	-1.380	-0.720	-0.889									
255.9242	3.5	27314.922	3.5	66377.283	-1.349	-1.704	-0.890	-0.947									
255.9773	2.5	26055.423	3.5	65109.679	-0.674	-0.698	-0.510	-0.597									
255.9926	2.5	27620.412	3.5	66672.334	-0.731	-0.901	-0.530	-0.580									
256.0283	1.5	25787.598	1.5	64834.073	-0.114	-0.071	-0.040	-0.134									
256.1186	4.5	25805.328	4.5	64831.943	-1.671	-6.642	-1.550	-1.644									
256.2093	1.5	25787.598	0.5	64806.488	-0.462	-0.328	-0.320	-0.415									
256.2536	3.5	7955.299	2.5	46967.444	0.071	0.153	0.170	-0.712			0.180			0.220		1.130	0.170
256.3476	2.5	8391.938	1.5	47389.779	0.215	-0.131	0.140	-0.080			-0.080			0.990		0.680	-0.108
256.3844	2.5	27620.412	1.5	66612.656	-1.347	-1.335	0.270	0.089									
256.5235	4.5	50157.452	3.5	89128.561	-5.276	0.485	-0.260	0.219									
256.6220	3.5	44915.046	4.5	83871.184	0.456	0.188	0.640	1.003									
256.6401	3.5	44915.046	2.5	83868.450	0.140	0.188	0.200	0.563									
256.6624	4.5	22637.205	5.5	61587.214	-0.954	-1.122	-0.890	-1.062									
256.6913	1.5	8680.454	0.5	47626.076	-0.609	-0.524	-0.080	-0.968									
256.8411	0.5	22409.852	1.5	61332.764	-0.622	-0.864	-0.570	-0.748									
256.8886	3.5	22810.357	3.5	61726.077	-0.774	-1.720	-1.190	-1.359									
256.9784	0.5	37227.326	1.5	76129.446	-0.146	-0.113	-0.060	0.117									
257.0548	2.5	48039.090	3.5	86929.649	-3.210	-3.264	0.440	0.876									
257.0849	3.5	30764.485	2.5	69650.484	0.037	0.066	0.300	0.322									
257.1549	4.5	22637.205	4.5	61512.634	-1.461	-1.695	-1.130	-1.304									
257.2968	2.5	23317.633	3.5	62171.615	-2.663	-0.752	-1.000	-1.158									
257.3211	3.5	25981.629	4.5	64831.943	-0.786	-0.902	-0.630	-0.724									
257.3757	3.5	30764.485	3.5	69606.552	-1.704	-1.518	-1.140	-1.119									
257.4367	2.5	20830.582	1.5	59663.456	0.024	0.076	0.230	-0.005								1.170	0.149
257.6862	4.5	33466.463	5.5	72261.729	0.420	0.474	0.360	0.444									
257.7430	2.5	22939.358	3.5	61726.077	-1.375	-2.370	-1.530	-1.699									
257.7923	0.5	8846.768	0.5	47626.076	-0.575	-0.490	-0.060	-0.948									
257.9413	4.5	26352.766	3.5	65109.679	-1.540	-1.513	-0.880	-0.967									
258.0721	3.5	33501.253	2.5	72238.513	-2.156	-2.578	-1.100	-1.016									
258.1112	2.5	23317.633	2.5	62049.025	-4.241	-0.899	-1.240	-1.401									
258.2584	1.5	8680.454	1.5	47389.779	-0.449	-0.365	0.010	-0.872									
258.3054	3.5	22810.357	4.5	61512.634	-1.691	-2.851	-1.290	-1.464									
258.5876	4.5	0.000	3.5	38660.043	-0.113	-0.098	0.040	-0.300						0.040		0.630	-0.229
258.8193	0.5	22409.852	0.5	61035.287	-1.439	-1.568	-1.410	-1.595									
258.8798	3.5	27314.922	3.5	65931.334	-1.309	-1.261	-1.110	-1.178									
259.0551	1.5	21812.055	2.5	60402.342	-1.187	-1.761	-0.900	-1.100									

WL(NM)	J10	ELO	JUP	EUP	K	KP	WAR	WA	CB	KU
250.0924	2.5	38164.194	3.5	78137.364	0.326	0.345	0.550	0.775		
250.1350	0.5	45206.450	0.5	85172.809	-0.585	-0.532	-0.520	-0.126		
250.2393	3.5	25981.629	3.5	65931.334	0.051	0.103	0.350	0.282		
250.3327	5.5	25428.784	5.5	65363.595	-0.223	0.182	0.240	0.159		
250.3571	1.5	23031.300	1.5	62962.205	-2.839	-2.678	-0.400	-0.539		
250.3875	4.5	30388.542	4.5	70314.604	0.358	0.406	0.650	0.688		
250.5214	3.5	2430.097	2.5	42334.822	-2.443	-2.060	-2.060	-2.811		
250.6094	4.5	25805.328	4.5	65696.038	-0.085	0.053	0.260	0.187		
250.6797	3.5	50187.813	4.5	90067.347	-3.064	-1.620	-1.765	-1.765		
250.7024	2.5	26055.423	3.5	65931.334	-1.079	-0.953	-0.850	-0.918		
250.9123	5.5	26170.181	4.5	66012.750	-1.001	-0.895	-0.430	-0.496		
251.0123	1.5	45044.168	2.5	84870.863	-0.825	-0.881	-0.190	0.197		
251.1369	3.5	2430.097	3.5	42237.033	-2.742	-2.130	-2.130	-2.878		
251.1761	3.5	21711.917	4.5	61512.634	0.329	0.144	0.560	0.386	1.430	
251.2512	1.5	36126.387	2.5	75915.215	-0.018	-0.043	0.130	0.302		
251.4383	3.5	30764.485	3.5	70523.706	0.225	0.269	0.510	0.553		
251.4933	2.5	22939.358	2.5	62689.880	-1.678	-1.543	-0.170	-0.865		
251.7135	0.5	22409.852	1.5	62125.600	-0.499	-0.326	-0.190	-0.349		
251.9048	3.5	27314.922	2.5	67000.517	0.139	0.197	0.390	0.348		
251.9409	0.5	26932.748	1.5	66612.656	-1.387	-1.341	-1.070	-1.121		
252.0675	4.5	26352.766	4.5	66012.750	-1.343	-1.824	-0.880	-0.946		
252.1092	2.5	27620.412	1.5	67273.826	-0.049	0.005	0.110	0.075		
252.1816	3.5	33501.253	3.5	73143.288	0.264	0.271	0.560	0.665		
252.2201	6.5	12151.608	5.5	60887.598	-0.693	-0.293	-1.020	-1.209		
252.3443	0.5	39109.307	1.5	78725.790	-0.612	-0.629	-0.910	-0.671		
252.5109	3.5	33501.253	4.5	73091.590	-0.548	-0.477	0.050	0.154		
252.5389	6.5	21231.608	6.5	60837.569	0.408	0.288	0.590	0.400	1.420	
252.5860	4.5	26352.766	3.5	65931.334	-1.505	-1.526	-0.960	-1.028		
252.5919	3.5	38660.043	3.5	78237.685	-0.257	-0.266	-0.264	-0.542		
252.6076	4.5	21581.638	3.5	61156.835	-0.306	0.026	0.360	-0.542		
252.6295	2.5	20830.582	2.5	60402.342	0.195	0.249	0.400	0.200	1.260	0.255
252.6832	2.5	2837.950	1.5	42401.302	-2.654	-2.838	-2.370	-3.122		
252.7157	4.5	25805.328	5.5	65363.595	-1.951	-1.468	0.000	-0.081		
252.7705	4.5	33466.463	3.5	73016.147	-0.152	-0.046	0.140	0.242		
252.9546	4.5	22637.205	4.5	62158.110	0.308	0.387	0.540	0.382		
252.9931	3.5	33501.253	3.5	73016.147	-0.837	-0.416	-1.330	-1.228		
253.0111	3.5	22810.357	3.5	62322.431	-0.419	-0.542	-0.220	-0.374		
253.1085	2.5	2837.950	2.5	42334.822	-3.618	-3.613	-2.650	-3.401		
253.3628	5.5	21430.359	5.5	60887.598	0.331	0.145	0.550	0.361	1.430	
253.4449	3.5	21711.917	3.5	61156.835	0.093	0.134	0.400	0.218	1.370	
253.5362	2.5	44929.550	1.5	84359.800	-0.010	0.040	0.100	0.475		
253.5486	4.5	22637.205	3.5	62065.521	-0.360	-0.178	0.070	-0.090		
253.6806	4.5	21581.638	4.5	60989.444	0.129	-0.192	0.550	0.364		
253.7139	4.5	38458.981	4.5	77861.625	0.125	0.109	0.100	0.319	1.660	
253.8205	6.5	32875.646	5.5	72261.729	-0.090	-0.148	0.460	0.544		
253.8501	3.5	21711.917	2.5	61093.413	-1.102	-1.879	-0.310	-0.494		
253.8799	5.5	21430.359	4.5	60807.230	0.035	-0.117	0.450	0.259	1.430	
253.8995	6.5	21251.608	5.5	60625.449	0.331	0.240	0.640	0.453	1.420	
253.9806	3.5	22810.357	3.5	62171.615	-2.201	-5.654	-1.550	-1.708		
254.0678	3.5	22810.357	4.5	62158.110	-0.593	-0.452	-0.090	-0.248		
254.1101	2.5	54870.528	2.5	94211.739	-4.874	0.110	0.110	-0.048		
254.1836	3.5	21711.917	2.5	61041.748	-0.128	-0.114	0.010	-0.175		
254.2736	0.5	26932.748	0.5	66248.660	-0.471	-0.329	-0.340	-0.400		
254.3380	4.5	21581.638	5.5	60887.598	0.036	0.221	0.320	0.131	1.130	
254.3431	2.5	22939.357	1.5	62244.520	-0.501	-0.498	0.390	0.234		
254.4973	1.5	21812.055	2.5	61093.413	-0.451	-0.291	-0.370	-0.554		
254.5221	3.5	21711.917	4.5	60989.444	-0.136	0.152	-0.100	-0.286		

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	MS	SW	CB	KU
265.0482	2.5	46967.444	3.5	84685.198	0.037	0.030	0.020	0.402					
265.2566	4.5	26352.766	3.5	64040.886	-1.276	-1.150	-1.150	-1.263					
265.4630	1.5	47389.779	1.5	85048.602	-0.563	-2.023	-0.100	0.291					
265.7918	4.5	30388.542	4.5	68000.788	-1.437	-1.706	-1.150	-1.168					
265.8253	3.5	31999.048	3.5	69606.552	-0.710	-0.764	-0.450	-0.429					
266.2556	0.5	47626.076	0.5	85172.809	-0.645	-0.586	-0.280	0.114					
266.4664	3.5	27314.922	4.5	64831.943	0.350	0.362	0.480	0.386	0.203		0.200	1.560	
266.5541	5.5	60625.449	6.5	98130.131	0.026	-0.123	0.390	1.095					
266.6637	2.5	27620.412	3.5	65109.679	0.245	0.267	0.400	0.313	0.140		0.140	1.420	
266.7219	1.5	47389.779	2.5	84870.863	-0.287	-0.223	-0.310	0.077					
266.8946	6.5	60837.569	5.5	98294.401	-0.182	0.012	0.360	1.069					
266.9933	0.5	49100.976	1.5	86543.974	-0.619	-0.559	-0.110	0.317					
267.0379	2.5	38164.194	3.5	75600.931	-1.720	-1.051	-0.610	-0.446					
267.1193	0.5	47626.076	1.5	85048.602	-0.653	-0.342	-0.330	0.061					
267.2139	3.5	61156.835	3.5	98568.912	-0.210	-0.220	0.340	1.056					
267.2516	5.5	60887.598	5.5	98294.401	0.010	-0.550	1.259						
267.6882	2.5	54870.528	1.5	92216.320	-0.225	-0.235	-0.180	0.743					
268.0233	2.5	46967.444	3.5	84266.556	-0.930	-2.381	-1.380	-1.511					
268.0791	3.5	25981.629	2.5	63272.976	-2.278	-0.676	0.590	1.303					
268.0991	3.5	61156.835	4.5	98445.400	-0.664	0.310	0.310	0.872					
268.2507	3.5	54904.222	4.5	92171.716	0.302	0.253	0.400	0.382					
268.4754	3.5	30764.485	4.5	68000.788	0.257	0.252	0.710	-0.443					
268.5405	3.5	42658.224	2.5	79885.493	-2.406	-2.194	-0.710	-0.443					
268.6107	2.5	26055.423	2.5	63272.976	-1.875	-2.194	-1.600	-1.731					
268.6388	2.5	27620.412	1.5	64834.073	-2.038	-1.886	-1.190	-1.284					
269.1173	4.5	25805.328	3.5	62945.038	-1.534	-1.595	-1.050	-1.189					
269.2601	4.5	30388.542	5.5	67516.332	0.285	0.266	0.350	0.320					
269.2834	3.5	7955.299	2.5	45079.879	-4.297	-4.056	-1.810	-2.632					
269.3857	3.5	27314.922	2.5	64425.408	-1.707	-1.706	-1.120	-1.224					
269.4281	2.5	42334.822	3.5	79439.467	-2.799	-2.891	-1.310	-1.053					
269.7328	1.5	36126.387	1.5	73189.110	-1.033	-0.978	-0.800	-0.693					
269.7462	1.5	36126.387	0.5	73187.280	-0.495	-0.452	-0.210	-0.104					
269.7727	4.5	33466.463	3.5	70523.706	-1.216	-1.179	-2.170	-2.127					
270.3990	3.5	27314.922	3.5	64286.345	-0.029	0.061	0.310	0.203				1.330	
270.4576	3.5	25981.629	3.5	62945.038	-1.816	-2.036	-1.600	-1.739					
270.6569	2.5	36252.918	1.5	73189.110	-0.208	-0.178	0.130	0.237					
270.7133	1.5	36126.387	2.5	73054.881	-0.405	-0.278	-0.080	0.023					
270.8726	2.5	26055.423	1.5	62962.205	-2.630	-2.407	-1.690	-1.829					
270.9036	1.5	25787.598	2.5	62689.880	-0.574	-0.446	-0.420	-0.565					
270.9381	2.5	8391.938	1.5	45289.801	-2.589	-2.536	-2.150	-2.978					
271.1842	5.5	25428.784	6.5	62293.164	-0.335	-0.351	-0.040	-0.115					
271.2391	4.5	25805.328	5.5	62662.244	-0.997	-1.011	-0.470	-0.616					
271.3037	4.5	33466.463	4.5	70314.604	-1.911	-2.023	-1.250	-1.212					
271.4413	3.5	7955.299	2.5	44784.761	-0.416	-0.374	-0.170	-0.984				0.910	-0.453
271.5601	3.5	33501.253	4.5	70314.604	-1.719	-2.100	-1.760	-1.722					
271.6218	2.5	27620.412	2.5	64425.408	-0.259	-0.247	0.110	0.006					
271.6697	3.5	7955.299	3.5	44753.799	-1.317	-1.291	0.230	0.666					
271.8640	4.5	50157.452	3.5	86929.649	0.044	0.086	0.230	0.666					
271.9304	2.5	36252.918	3.5	73016.147	-0.851	-0.560	-0.430	-0.328					
272.1814	5.5	25428.784	4.5	62158.110	-0.928	-1.429	-1.170	-1.328					
272.2063	3.5	27314.922	3.5	64040.886	-0.534	-0.585	-0.780	-0.893					
272.2741	2.5	50212.826	3.5	86929.649	-0.102	-0.013	0.140	0.576					
272.3377	3.5	25981.629	2.5	62689.880	-2.976	-2.870	-1.980	-2.125					
272.4884	2.5	8391.938	2.5	45079.879	-0.749	-0.707	-0.740	-1.562					
272.6520	2.5	27620.412	3.5	64286.345	-1.444	-0.964	-1.710	-1.817					
272.7383	5.5	25428.784	4.5	62083.108	-0.832	-0.626	-0.240	-0.400					
272.7539	2.5	8391.938	1.5	45044.168	-0.366	-0.329	-0.110	-0.931				0.920	-0.367

WL(NM)	J10	ELO	JUP	EUP	K	KP	WAR	WA	NBS	MOSM	MS	AS	SW	HU	BR	NS	CB	KU
259.1543	2.5	8391.938	2.5	46967.444	-0.485	-0.400	-0.030	-0.901	-0.510		-0.350				-0.509		0.790	-0.409
259.2785	6.5	32875.680	7.5	71432.680	0.693	0.701	0.820	0.884	0.560		-0.750	0.560					0.840	-1.155
259.3729	0.5	8846.768	1.5	47389.779	-1.217	-1.130	-0.780	-1.662										
259.4964	3.5	31999.048	3.5	70523.706	-1.047	-1.056	-0.920	-0.877										
259.5303	4.5	22637.205	3.5	61156.835	-2.164	-2.003	-1.380	-1.562	-1.690			-1.690						
259.8032	4.5	26352.766	4.5	64831.943	-1.952	-1.286			-0.100		-0.010	0.260		0.150	-0.092	0.033	0.660	-0.086
259.8370	3.5	384.790	2.5	38858.958	-0.027	-0.009			0.352		0.430			0.710	0.352	0.481	1.100	0.418
259.9396	4.5	0.000	4.5	38458.981	0.418	0.439												
260.4053	3.5	44915.046	3.5	83305.251	-0.870	-0.854	-0.400	-0.051										
260.4670	3.5	27314.922	4.5	65696.038	-1.635	-2.097	-1.260	-1.333										
260.5037	2.5	44929.550	3.5	83305.251	0.324	0.354	0.390	0.739										
260.5311	1.5	36126.387	1.5	74498.057	-0.047	0.005	0.050	0.188										
260.5425	2.5	26055.423	2.5	64425.408	-0.769	-1.001	-0.510	-0.614										
260.5902	1.5	38214.507	0.5	76577.482	-1.040	-1.014	-0.480	-0.292										
260.6517	2.5	36252.918	2.5	74606.841	0.185	0.242	0.230	0.371	-0.220		-0.248	-0.070		0.070	-0.034	0.680	-0.114	
260.7088	2.5	667.683	1.5	39013.206	-0.098	-0.078	-1.420	-1.607										
260.8853	4.5	22637.205	3.5	60956.781	-1.196	-1.172	-0.470	-0.432										
260.9127	3.5	31999.048	4.5	70314.604	-0.525	-0.489	-0.920	-1.388										
260.9442	2.5	27620.412	3.5	65931.334	-1.060	-1.223	-1.320	-1.388										
260.9865	3.5	25981.629	3.5	64286.345	-1.039	-1.316	-0.950	-1.057										
261.1074	1.5	8680.454	2.5	46967.444	-1.367	-1.276	-0.930	-1.801			-1.360							-1.301
261.1342	3.5	22810.357	2.5	61093.413	-2.166	-2.339	-1.600	-1.784	-0.100		0.060			0.210		0.099	0.730	0.057
261.1874	3.5	384.790	3.5	38660.043	0.033	0.059	-0.400	-0.427	-0.400		-0.290			-0.120		-0.255	0.390	-0.301
261.3825	1.5	862.613	0.5	39109.307	-0.322	-0.301												
261.4189	3.5	27314.922	4.5	65556.280	-1.452	-1.975	-1.310	-1.387										
261.4871	3.5	22810.357	2.5	61041.748	-1.473	-1.399	-1.690	-1.875										
261.7618	2.5	667.683	2.5	38858.958	-0.507	-0.477	-0.650	-1.310										
261.9075	4.5	22637.205	4.5	60807.230	-0.511	-0.477	-0.480	-0.671										
262.0172	2.5	22939.358	1.5	61093.413	-1.491	-1.876	-0.970	-1.154										
262.0409	1.5	862.613	1.5	39013.206	-1.800	-1.753	-1.750	-2.414			-1.790							
262.0696	3.5	22810.357	3.5	60956.781	-0.464	-0.389	-0.450	-0.637										
262.1670	0.5	977.053	0.5	39109.307	-0.931	-0.914	-0.880	-1.547	-0.870		-0.900			-0.600		-0.848	0.120	-0.854
262.3130	6.5	32875.646	6.5	70986.677	-0.858	-0.886			-0.880				-0.880					
262.3725	2.5	22939.358	2.5	61041.748	-0.706	-0.590	-0.800	-0.985										
262.5490	5.5	32909.905	6.5	70986.677	0.615	0.624	0.780	0.834	0.470		0.370			-0.200	-0.456	0.450	-0.229	
262.5668	3.5	384.790	4.5	38458.981	-0.438	-0.428	-0.650	-1.300										
262.6698	3.5	25981.629	3.5	64040.886	-1.896	-1.078	-0.690	-0.874										
262.8294	0.5	977.053	1.5	39013.206	-0.427	-0.408	-1.580	-1.693										
263.0071	1.5	23031.300	2.5	61041.748	-0.278	-0.167	-0.600	-1.264	-0.490		-0.380			-0.210		-0.341	0.380	-0.301
263.1011	3.5	22810.357	4.5	60807.230	-0.137	-0.120	-0.400	-0.585										
263.1048	1.5	862.613	2.5	38858.958	-0.274	-0.257												
263.1324	2.5	667.683	3.5	38660.043	-0.277	-0.262	0.090	-0.105										
263.1609	4.5	22637.205	5.5	60625.449	-0.015	0.069	-0.030	0.147										
263.3203	2.5	38164.194	1.5	76129.446	-0.620	-0.570	-0.030	0.147										
263.5118	1.5	31364.440	1.5	69302.090	-2.238	-0.570	-1.250	-1.237										
263.5401	4.5	26352.766	3.5	64286.345	-1.406	-1.325	-1.080	-1.187										
263.6697	1.5	38214.507	1.5	76129.446	-1.634	-1.587	-0.720	-0.543										
263.7644	0.5	26932.748	1.5	64834.073	-0.548	-0.488	-0.400	-0.494										
263.9565	0.5	6932.748	0.5	64806.487	-0.756	-0.969	-0.610	-0.705										
264.1123	1.5	21812.055	1.5	59663.456	-1.593	-1.630	-1.290	-1.525										
264.2012	2.5	31811.822	2.5	69650.484	-0.796	-0.850	-0.530	-0.508										
264.5082	3.5	27314.922	3.5	65109.679	-1.586	-2.807	-0.900	-0.987										
264.5334	3.5	54904.222	2.5	92695.374	-0.021	-0.027	0.380	0.955										
264.5903	1.5	47389.779	0.5	85172.809	-1.247	-1.211	-0.310	0.084										
264.6212	5.5	26170.181	4.5	63948.790	-2.033	-1.658	-1.250	-1.365										
264.6683	1.5	25787.598	0.5	63559.488	-2.670	-2.484	-1.270	-1.395										
264.9469	2.5	54870.528	3.5	92602.703	0.061	0.343	0.470	1.042										

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA
279.3245	2.5	36252.918	1.5	72043.026	-1.296	-1.409	-1.080	-1.001
279.3886	4.5	25805.328	5.5	61587.214	-0.640	-0.521	-0.440	-0.612
279.6628	4.5	42114.818	4.5	77861.625	-0.790	-0.813	-0.540	-0.321
279.7196	4.5	63948.790	3.5	99688.337	-0.082	-0.147	-0.100	0.643
279.7917	4.5	26352.766	4.5	62083.108	-1.375	-1.266	-1.020	-1.180
279.9295	4.5	26352.766	3.5	62065.521	-0.895	-1.277	-0.590	-0.750
279.9722	4.5	25805.328	4.5	61512.634	-2.174	-2.016	-1.520	-1.694
280.0538	4.5	63876.317	4.5	99573.225	-0.062	-0.082	0.160	0.900
280.3430	4.5	64831.943	3.5	100492.020	0.071	0.041	0.460	1.222
280.4021	2.5	27620.412	2.5	63272.976	-1.459	-1.643	-1.180	-1.311
280.4999	3.5	65109.679	2.5	100749.810	-0.021	-0.042	0.400	1.168
280.5318	1.5	31364.440	2.5	67000.517	-1.945	-1.819	-1.090	-1.132
280.5788	3.5	27314.922	3.5	62945.038	-1.313	-1.625	-1.340	-1.479
280.9783	3.5	42658.224	4.5	78237.685	-0.662	-0.618	-0.530	-0.302
281.1268	5.5	25428.784	4.5	60989.444	-2.412	-3.272	-1.300	-1.486
281.2494	1.5	25787.598	1.5	61332.764	-1.920	-1.605	-1.310	-1.488
281.2682	4.5	30388.542	3.5	65931.334	-3.141	-2.850	-1.540	-1.608
281.3615	3.5	25981.629	4.5	61512.634	-1.058	-0.756	-0.980	-1.154
281.7088	2.5	43238.586	1.5	78725.790	-0.860	-0.888	-0.470	-0.231
281.9343	5.5	25428.784	5.5	60887.598	-2.359	-2.593	-1.250	-1.439
282.5748	5.5	25428.784	4.5	60807.230	-1.482	-1.477	-1.410	-1.601
282.6027	3.5	27314.922	2.5	62689.880	-1.456	-1.304	-1.040	-1.185
282.7427	5.5	26170.181	6.5	61527.616	-1.458	-2.061	-0.950	-1.123
282.8626	5.5	26170.181	4.5	61512.634	-0.823	-0.799	-0.580	-0.754
283.0054	2.5	27620.412	3.5	62945.038	-3.469	-2.655	-1.510	-1.649
283.0923	3.5	30764.485	2.5	66078.269	-2.241	-1.926	-1.340	-1.404
283.1562	1.5	25787.598	2.5	61093.413	-0.048	-0.011	-0.110	-0.074
283.3086	2.5	43238.586	2.5	78525.407	-0.557	-0.541	-0.470	-0.235
283.5711	1.5	25787.598	2.5	61041.748	-0.975	-1.636	-0.190	-0.375
283.6189	1.5	31364.440	1.5	66612.656	-1.465	-1.338	-1.220	-1.271
283.6512	0.5	31368.450	1.5	66612.656	-1.202	-1.084	-1.050	-1.101
283.7297	4.5	26352.766	5.5	61587.214	-1.580	-2.016	-1.180	-1.352
283.8217	1.5	43620.957	0.5	78843.992	-0.755	-0.752	-0.110	0.132
283.9513	4.5	44232.512	3.5	79439.467	0.117	0.110	-0.020	0.237
283.9800	3.5	42658.224	4.5	77861.625	-0.179	-0.166	-0.130	0.089
284.0343	5.5	25428.784	5.5	60625.449	-0.790	-0.738	-0.690	-0.885
284.0651	0.5	26932.748	1.5	62125.600	-0.404	-0.468	-0.090	-0.249
284.0760	4.5	30388.542	5.5	65580.041	-0.695	-0.221	-0.390	-0.466
284.1356	4.5	25805.328	4.5	60989.444	-3.745	-2.407	-1.620	-1.806
284.2076	3.5	25981.629	3.5	61156.835	-2.136	-2.082	-1.370	-1.552
284.2680	4.5	30388.542	4.5	65556.280	-2.233	-2.179	-1.450	-1.527
284.3316	4.5	26352.766	4.5	61512.634	-1.572	-1.648	-1.260	-1.434
284.3478	1.5	31364.440	2.5	66522.304	-1.048	-0.938	-0.880	-0.933
284.4959	0.5	45206.450	0.5	80346.016	-0.912	-0.923	-0.790	-0.512
284.7210	3.5	25981.629	2.5	61093.413	-1.909	-2.069	-1.520	-1.704
284.7774	1.5	43620.957	1.5	78725.790	-0.688	-0.671	-0.770	-0.531
284.8051	2.5	26055.423	3.5	61156.835	-0.824	-0.762	-0.530	-0.712
284.8106	2.5	44784.761	2.5	79885.493	-0.288	-0.307	-0.320	-0.053
284.8320	2.5	45079.879	1.5	80177.975	-0.157	-0.165	-0.310	-0.036
284.8906	5.5	32909.905	4.5	68000.788	-1.283	-1.416	-0.840	-0.858
284.9605	4.5	25805.328	5.5	60887.598	-1.039	-1.146	-0.870	-1.059
285.1723	1.5	45289.801	0.5	80346.016	-0.374	-0.382	0.470	0.748
285.3207	2.5	26055.423	2.5	61093.413	-2.677	-4.233	-1.510	-1.694
285.5666	3.5	25981.629	4.5	60989.444	-0.905	-1.130	-0.450	-0.636
285.6149	4.5	25805.328	4.5	60807.230	-1.090	-1.085	-0.990	-1.181
285.6377	2.5	43238.586	3.5	78237.685	-0.486	-0.465	-0.630	-0.402
285.6909	3.5	44446.878	3.5	79439.467	-0.010	-0.028	-0.180	-0.077
285.7174	2.5	31387.948	3.5	66377.283	-0.860	-0.862	-0.540	-0.597

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	MS	SW	CB	KU
272.9438	0.5	26932.748	0.5	63559.488	-2.532	-2.418	-1.110	-1.235					
272.9583	2.5	50142.786	2.5	86767.577	-0.925	-0.883	-0.310	0.122					
273.0734	1.5	8680.454	1.5	45289.801	-0.687	-0.647	-0.470	-1.298				0.650	-0.620
273.2009	4.5	26352.766	3.5	62945.038	-1.114	-0.950	-1.060	-1.199					
273.2446	4.5	1872.567	4.5	38458.981	-3.353	-3.695	-2.960	-3.610					
273.2943	3.5	50187.813	2.5	86767.577	-0.181	-0.131	0.070	0.502					
273.4813	2.5	50212.826	2.5	86767.577	-0.714	-0.613	-0.410	0.022					
273.6489	0.5	26932.748	1.5	63465.109	-2.623	-2.555	-1.740	-1.867					
273.6966	1.5	8680.454	0.5	45206.450	-0.559	-0.525	-0.180	-1.005				0.690	-0.538
273.7633	4.5	25805.328	3.5	62322.431	-2.022	-1.877	-1.460	-1.614				1.470	0.362
273.9548	3.5	7955.299	3.5	44446.878	0.317	0.342	-0.660	-0.233					
274.1050	1.5	50075.910	2.5	86547.490	-3.442	-3.039	-0.720	-0.832					
274.1394	2.5	27620.412	2.5	64087.418	-0.425	-0.325	-0.210	0.506					
274.3197	0.5	8846.768	1.5	45289.801	-0.058	-0.025	0.200	-0.614					
274.5626	4.5	62158.110	3.5	98568.912	-1.652	-2.273	0.200	-0.614					
274.6484	1.5	8680.454	2.5	45079.879	0.157	0.190	0.200	-0.614					
274.6982	2.5	8391.938	2.5	44784.761	0.039	0.061	0.200	-0.614					
274.9181	1.5	8680.454	1.5	45044.168	-0.300	-0.276	0.200	-0.614					
274.9321	2.5	8391.938	3.5	44753.799	0.319	0.353	0.200	-0.614					
274.9486	3.5	50187.813	2.5	86547.490	-1.028	-2.039	-0.080	-0.905					
275.1127	1.5	25787.598	1.5	62125.600	-0.859	-0.907	-0.690	-0.849					
275.2150	1.5	42401.302	1.5	78725.790	-0.502	-0.522	-0.730	-0.491					
275.3288	4.5	26352.766	5.5	62662.244	0.473	0.498	0.580	0.434					
275.4889	3.5	42237.033	2.5	78525.407	-0.117	-0.115	-0.280	-0.045					
275.5737	3.5	7955.299	4.5	44232.512	0.425	0.460	-0.280	-0.045					
275.6512	2.5	26055.423	3.5	62322.431	-1.098	-0.986	-1.040	-1.194					
275.7030	4.5	25805.328	3.5	62065.521	-1.601	-1.586	-1.100	-1.260					
275.9332	3.5	2430.097	3.5	38660.043	-3.533	-3.260	-3.260	-3.915					
276.1813	0.5	8846.768	1.5	45044.168	-0.873	-0.838	-1.680	-2.501					
276.2447	2.5	26055.423	1.5	62244.520	-2.189	-1.779	-1.270	-1.426					
276.3655	6.5	66411.686	5.5	102584.963	0.243	0.222	0.190	1.002					
276.3911	3.5	25981.629	2.5	62151.561	-1.843	-1.861	-2.270	-2.428					
276.4790	5.5	25428.784	5.5	61587.214	-1.727	-1.670	-1.540	-1.712					
276.5494	3.5	33501.253	2.5	69650.484	-1.488	-1.450	-1.300	-1.278					
276.6193	4.5	33466.463	3.5	69606.552	-1.489	-1.529	-1.700	-1.679					
276.7503	5.5	26170.181	6.5	62293.164	0.488	0.522	0.550	0.395				1.980	
276.8335	1.5	36126.387	2.5	72238.513	-2.004	-2.357	-1.380	-1.296					
276.8935	1.5	8680.454	2.5	44784.761	-0.922	-0.896	-1.080	-1.894					
276.9152	3.5	25981.629	4.5	62083.108	-1.099	-1.015	-1.150	-1.310					
276.9355	5.5	25428.784	6.5	61527.616	-0.398	-0.328	-0.160	-0.333					
277.0505	5.5	25428.784	4.5	61512.634	-1.358	-1.419	-0.960	-1.134					
277.1186	4.5	30388.542	5.5	66463.528	-1.646	-1.587	-0.910	-0.965					
277.1555	2.5	26055.423	1.5	62125.600	-1.854	-2.510	-1.570	-1.729					
277.2726	2.5	8391.938	3.5	44446.878	-1.406	-1.409	-0.640	-0.779					
277.4688	0.5	26932.748	1.5	62962.205	-0.944	-0.734	-0.640	-0.779					
277.5338	2.5	2837.950	2.5	38858.958	-3.918	-4.013	-3.220	-3.880					
277.6179	2.5	26055.423	3.5	62065.521	-1.508	-1.634	-1.230	-1.390					
277.6908	3.5	42237.033	3.5	78237.685	-0.466	-0.529	-0.390	-0.162					
277.7890	5.5	26170.181	4.5	62158.110	-1.154	-2.046	-0.900	-1.058					
277.9300	4.5	26352.766	3.5	62322.431	-0.053	0.034	0.270	0.116					
277.9909	0.5	37227.326	1.5	73189.110	-0.777	-0.800	-0.650	-0.543					
278.0051	0.5	37227.326	0.5	73187.280	-1.025	-1.049	-0.720	-0.614					
278.3691	5.5	26170.181	4.5	62083.108	0.105	0.197	0.330	0.170					
278.5192	5.5	41968.046	4.5	77861.625	0.222	0.204	0.100	0.319					
278.7242	3.5	42658.224	2.5	8525.407	-0.974	-1.139	-0.830	-0.595					
279.0184	2.5	48039.090	2.5	83868.450	-1.973	-1.891	-0.280	0.083					
279.0361	3.5	30764.485	4.5	66589.008	-1.807	-3.453	-1.080	-1.132					
279.1003	4.5	26352.766	3.5	62171.615	-5.451	-8.941	-1.690	-1.848					

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	SW	G	KU
297.8846	4.5	30388.542	4.5	63948.790	-2.388	-1.959	-1.400	-1.515				
297.9114	3.5	31999.048	4.5	65556.280	-2.045	-2.027	-1.150	-1.227				
297.9354	0.5	8846.768	1.5	42401.302	-2.018	-2.105	-1.590	-2.342				-2.149
298.0963	2.5	27620.412	3.5	61156.835	-1.961	-2.086	-1.470	-1.652				
298.2059	1.5	36126.387	2.5	69650.484	-0.612	-0.524	-0.310	-0.288				
298.4825	2.5	13474.411	2.5	46967.444	-0.611	-0.599	0.070	-0.801				-1.301
298.5545	0.5	13904.824	1.5	47389.779	-1.043	-1.030						-0.706
299.3357	2.5	36252.918	2.5	69650.484	-2.284	-2.186	-1.400	-1.378				
299.7300	2.5	36252.918	3.5	69606.552	-0.776	-0.701	-0.550	-0.529	-2.190	-2.190		
299.7738	3.5	31483.176	4.5	64831.943	-4.182	-3.802						
299.8852	2.5	27620.412	3.5	60956.781	-2.543	-2.522	-1.660	-1.847				
300.0062	3.5	30764.485	2.5	64087.418	-1.106	-0.953	-1.080	-1.192				
300.2321	2.5	31811.822	3.5	65109.679	-1.548	-1.790	-0.940	-1.027	-1.710	-1.710		-0.703
300.2646	1.5	13673.185	2.5	46967.444	-1.038	-1.033	-0.320	-1.191				
300.4257	3.5	30764.485	3.5	64040.886	-1.748	-1.629	-1.450	-1.563				
303.6963	2.5	67000.517	1.5	99918.569	-2.988	-3.115	-0.410	-0.143				
303.8777	2.5	31387.948	3.5	64286.345	-2.162	-2.241	-1.480	-1.587				
304.4840	3.5	31999.048	4.5	64831.943	-1.660	-2.060	-1.170	-1.264	-1.820	-1.810		
304.8991	1.5	47389.779	1.5	80177.975	-0.789	-0.780	-0.450	-0.176				
305.5352	0.5	47626.076	0.5	80346.016	-0.913	-0.905	-0.630	-0.352				
305.6804	6.5	32875.646	5.5	65580.041	-1.111	-0.895	-0.980	-1.056				
306.2237	5.5	32909.905	4.5	65556.280	-0.735	-0.728	-0.240	-0.317				
306.5316	2.5	31811.822	2.5	64425.408	-1.653	-1.786	-0.970	-1.074				
306.8757	3.5	33501.253	2.5	66078.269	-2.433	-2.403	-1.350	-1.414				
307.0691	4.5	30388.542	3.5	62945.038	-1.707	-1.827	-1.440	-1.579				
307.1125	0.5	47626.076	1.5	80177.975	-0.951	-0.945	-0.760	-0.486				
307.5226	3.5	30764.485	2.5	63272.976	-2.161	-2.339	-1.570	-1.701				
307.6435	1.5	47389.779	2.5	79885.493	-0.561	-0.555	-0.380	-0.113				
307.7170	6.5	32875.646	5.5	65363.595	-0.755	-0.940	-0.150	-0.231				
307.8680	2.5	46967.444	3.5	79439.467	-0.279	-0.274	-0.120	-0.137				
308.0419	5.5	32909.905	5.5	65363.595	-2.470	-2.687	-1.540	-1.621				
308.3015	3.5	31999.048	2.5	64425.408	-2.250	-2.449	-1.810	-1.914				
308.9384	2.5	38164.194	3.5	70523.706	-1.655	-1.561	-0.970	-0.927				
309.6295	3.5	31999.048	2.5	64286.345	-1.731	-1.827	-0.950	-1.057				
309.7417	2.5	31811.822	3.5	64087.418	-1.982	-2.046	-1.710	-1.822				
310.5167	1.5	31364.440	0.5	63559.488	-1.684	-1.623	-1.060	-1.185				
310.5554	0.5	31368.450	0.5	63559.488	-1.722	-1.659	-1.060	-1.185				
311.4297	1.5	31364.440	1.5	63465.109	-1.460	-1.411	-0.850	-0.977				
311.4686	0.5	31368.450	1.5	63465.109	-1.831	-1.731	-1.150	-1.277				
311.6579	2.5	31387.948	1.5	63465.109	-1.507	-1.454	-0.790	-0.917				
312.9009	3.5	31999.048	4.5	63948.790	-2.610	-2.578	-1.690	-1.805				
313.0562	4.5	30388.542	3.5	62322.431	-3.282	-4.370	-1.650	-1.804				
313.1724	5.5	32909.905	4.5	64831.943	-2.072	-1.855	-1.330	-1.424	-1.750	-1.760		
313.3050	1.5	31364.440	2.5	63272.976	-1.889	-1.736	-1.230	-1.361				
313.5360	2.5	31387.948	2.5	63272.976	-1.135	-1.085	-0.580	-0.711				
314.0694	5.5	66463.528	5.5	98294.401	-0.880	-0.906	0.300	1.009				
314.4752	3.5	31483.176	2.5	63272.976	-1.633	-1.576	-0.970	-1.101				
314.6755	4.5	30388.542	4.5	62158.110	-1.540	-3.592	-1.680	-1.838				
315.4202	4.5	30388.542	4.5	62083.108	-0.527	-0.447	-0.040	-0.200				
315.5953	4.5	30388.542	3.5	62065.521	-2.433	-2.339	-1.670	-1.830				
316.2798	3.5	33501.254	3.5	65109.680	-1.145	-1.199	-0.680	-0.767	-1.300	-1.300		-3.000
316.3094	2.5	13474.411	2.5	45079.879	-3.167	-3.223	-1.980	-2.802				
316.6672	2.5	13474.411	1.5	45044.168	-2.932	-2.952	-2.110	-2.931				
316.7857	3.5	30764.485	3.5	62322.431	-0.729	-0.663	-0.110	-0.264				
317.0337	1.5	13673.185	0.5	45206.450	-2.530	-2.538	-1.760	-2.585				
317.5067	2.5	38164.194	2.5	69650.484	-2.132	-2.100	-1.560	-1.538				
317.7532	3.5	31483.176	3.5	62945.038	-0.931	-0.877	-0.300	-0.439				
317.9503	2.5	38164.194	3.5	69606.552	-0.902	-0.896	-0.290	-0.269				
												-3.360
												-2.870

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	SW	CB	KU
285.7420	2.5	26055.423	2.5	61041.748	-1.383	-1.360	-0.380	-0.565				
285.8333	3.5	25981.629	3.5	60956.781	-1.232	-1.210	-0.020	-0.167				
286.1168	1.5	8680.454	1.5	43620.957	-2.927	-2.532	-2.170	-2.954				-3.046
286.4123	1.5	43620.957	2.5	78525.407	-0.927	-0.901	-0.720	-0.485				
286.4377	2.5	26055.423	3.5	60956.781	-3.194	-3.536	-1.420	-1.607				
286.4972	3.5	31483.176	3.5	66377.283	-1.292	-1.288	-0.920	-0.977				
286.5459	1.5	45289.801	1.5	80177.975	-1.003	-1.005	-0.770	-0.496				
286.8437	2.5	38164.195	3.5	73016.148	-1.835	-1.918	-0.670	-0.568				
286.8874	2.5	8391.938	2.5	42338.586	-2.103	-1.705	-1.840	-2.614				-1.854
286.9159	3.5	27314.922	4.5	62158.110	-3.397	-1.815	-1.300	-1.458				
287.0608	3.5	25981.629	4.5	60807.230	-2.488	-4.439	-1.450	-1.641				
287.1060	4.5	25805.328	5.5	60625.449	-1.570	-2.029	-0.930	-1.125				
287.2384	4.5	26352.766	3.5	61156.835	-0.632	-0.641	-0.410	-0.592				
287.3398	3.5	30764.485	4.5	65556.280	-0.189	-0.049	0.100	0.023				
287.5349	3.5	27314.922	4.5	62083.108	-0.816	-0.792	-0.520	-0.680				
287.9245	4.5	30388.542	3.5	65109.679	-1.618	-1.293	-1.140	-1.227	-1.540	-1.540		
288.0129	2.5	31811.822	2.5	66522.304	-3.028	-2.960	-1.520	-1.573				
288.0756	3.5	7955.299	3.5	42658.224	-1.535	-1.202	-2.180	-2.939				
288.0832	2.5	27620.412	3.5	62322.431	-1.228	-1.156	-0.230	-0.384				
288.1803	2.5	31387.948	2.5	66078.269	-3.036	-2.879	-1.410	-1.474				
288.3710	5.5	26170.181	6.5	60837.569	-0.625	-0.683	-0.270	-0.460				
288.4765	2.5	44784.761	3.5	79439.467	-0.733	-0.729	-0.710	-0.453				
288.5933	6.5	32875.646	5.5	67516.332	-1.420	-1.671	-0.840	-0.870				
288.8095	1.5	25787.598	2.5	60402.342	-1.357	-1.155	-1.090	-1.290				
288.8991	4.5	26352.766	3.5	60956.781	-2.820	-2.594	-1.720	-1.907				
289.2827	1.5	8680.454	2.5	43238.586	-2.690	-2.289	-2.270	-3.044				-2.481
289.4062	2.5	31387.948	3.5	65931.334	-2.002	-1.948	-1.650	-1.718				
289.4779	4.5	26352.766	5.5	60887.598	-1.098	-1.109	-0.810	-0.999				
289.5220	3.5	31483.176	4.5	66012.750	-0.814	-0.686	-0.540	-0.606				
289.7266	2.5	27620.412	1.5	62125.600	-1.094	-0.972	-2.720	-2.879				
290.2319	2.5	27620.412	3.5	62065.521	-2.281	-2.762	-1.950	-2.110				
290.2463	4.5	30388.542	4.5	64831.943	-1.514	-1.295	-1.010	-1.104	-1.320	-1.320		
290.6124	0.5	26932.748	1.5	61332.764	-1.669	-1.433	-1.230	-1.408				
290.7856	3.5	7955.299	2.5	42334.822	-2.910	-3.030	-2.440	-3.191				
291.0763	3.5	30764.485	3.5	65109.679	-2.166	-1.721	-1.900	-2.095				
291.6922	4.5	26352.766	5.5	60625.449	-3.601	-3.095	-1.170	-1.127				
291.7083	2.5	36252.918	3.5	70523.706	-1.334	-1.169	-1.170	-1.127				
291.7466	2.5	8391.938	3.5	42658.224	-2.597	-2.154	-2.300	-3.059				-2.161
292.2022	3.5	31483.176	4.5	65696.038	-1.197	-1.173	-1.000	-1.073				
292.6585	3.5	7955.299	4.5	42114.818	-1.333	-1.414	-0.900	-1.645				0.180
293.4494	3.5	30764.485	4.5	64831.943	-2.312	-1.781	-1.630	-1.660				-1.284
293.6010	4.5	33466.463	5.5	67516.332	-1.716	-2.064	-1.240	-2.240				
293.9507	2.5	8391.938	1.5	42401.302	-2.598	-2.710	-2.240	-2.992				
294.0113	3.5	69606.552	4.5	103608.909	-0.206	-0.226	0.170	1.007				
294.4396	1.5	13673.185	0.5	47626.076	-1.011	-1.001	-0.360	-1.248				0.620
294.7654	2.5	13474.411	1.5	47389.779	-0.974	-0.963	-0.270	-1.152				-0.658
294.9182	4.5	30388.542	3.5	64286.345	-0.625	-0.590	-0.250	-0.357				
295.1092	1.5	25787.598	1.5	59663.456	-2.414	-2.397	-1.820	-2.055				
295.3775	2.5	8391.938	3.5	42237.033	-1.417	-1.508	-1.060	-1.808				-1.432
295.9599	3.5	27314.922	2.5	61093.413	-1.008	-0.926	-0.780	-0.964				
296.1276	1.5	8680.454	0.5	42439.822	-2.556	-2.662	-2.120	-2.873				
296.4133	3.5	27314.922	2.5	61041.748	-1.722	-2.174	-0.910	-1.095				
296.4623	0.5	13904.824	0.5	47626.076	-1.739	-1.730	-1.000	-1.888				-1.432
296.5033	1.5	13673.185	1.5	47389.779	-1.481	-1.469	-0.790	-1.672				-1.180
296.9937	3.5	30764.485	2.5	64425.408	-0.825	-0.842	-0.380	-0.484				
297.0515	1.5	8680.454	2.5	42334.822	-1.651	-1.736	-1.280	-2.031				-1.658
297.0694	4.5	30388.542	3.5	64040.886	-1.041	-1.007	-0.800	-0.913				
297.5937	0.5	8846.768	0.5	42439.822	-2.545	-2.650	-2.070	-2.823				

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	BSS	G	P	KU
341.6021	1.5	18360.646	0.5	47626.076	-3.3058	-2.956	-1.920	-2.808		-2.850		
342.5575	2.5	13474.411	3.5	42658.224	-3.296	-2.840	-2.790	-3.549		-3.500		-3.000
343.6107	3.5	31999.048	2.5	61093.413	-2.080	-2.124	-1.460	-1.644				
344.2219	3.5	31999.048	2.5	61041.748	-2.881	-3.536	-1.800	-1.985				
344.8430	3.5	31999.048	4.5	60989.444	-3.368	-4.376	-2.200	-2.406				
345.6924	3.5	31483.176	2.5	60402.342	-2.013	-2.009	-1.480	-1.680				
346.3962	2.5	13474.411	2.5	42334.822	-3.995	-4.136	-2.870	-3.621				
346.8677	3.5	33501.253	3.5	62322.431	-1.525	-1.498	-0.930	-1.084		-3.800		
347.9914	1.5	13673.185	1.5	42401.302	-3.848	-3.983	-2.900	-3.652				
348.2391	1.5	36126.387	1.5	64834.073	-4.678	-4.410	-1.720	-1.814				
348.7986	1.5	13673.185	2.5	42334.822	-3.642	-3.778	-2.830	-3.581				
349.3470	4.5	33466.463	4.5	62083.108	-1.203	-1.149	-0.650	-0.810				
349.4673	1.5	18360.646	2.5	46967.444	-3.153	-3.021	-2.070	-2.941				
349.5618	4.5	33466.463	3.5	62065.521	-2.497	-2.952	-1.740	-1.900				
349.9876	3.5	33501.253	3.5	62065.521	-2.497	-2.952	-1.740	-1.900		-3.940		
350.3466	0.5	13904.824	0.5	42439.822	-3.931	-4.060	-2.270	-3.152		-3.350		
350.7399	0.5	18886.780	1.5	47389.779	-3.551	-3.413	-2.270	-3.152				
353.5619	2.5	31387.948	1.5	59663.456	-2.985	-2.862	-1.780	-2.015				
355.7563	3.5	44915.046	3.5	73016.147	-3.296	-3.566	-1.100	-0.998				
356.6059	1.5	38214.507	0.5	66248.660	-2.657	-2.328	-1.810	-1.870				
356.6152	2.5	36252.918	3.5	64286.345	-2.385	-2.318	-1.790	-1.897				
361.4876	3.5	33501.253	3.5	61156.835	-2.074	-2.048	-1.530	-1.712				
362.1270	0.5	37227.326	1.5	64834.073	-1.557	-1.640	-1.190	-1.284				
362.4893	0.5	37227.326	0.5	64806.487	-1.837	-1.941	-1.350	-1.445				
363.2292	4.5	33466.463	4.5	60989.444	-2.585	-3.188	-1.900	-2.086				
371.1982	1.5	47674.721	2.5	74606.841	-2.777	-2.730	-1.720	-1.579		-3.950		
374.6566	1.5	18360.646	1.5	45044.168	-3.830	-3.670	-0.950	-1.044				
374.8483	2.5	38164.194	1.5	64834.073	-1.637	-1.594	-0.950	-1.044				
375.5568	1.5	38214.507	1.5	64834.073	-2.530	-2.521	-1.890	-1.984				
375.9464	1.5	38214.507	0.5	64806.487	-1.969	-1.998	-1.390	-1.485				
376.2893	2.5	48039.090	2.5	74606.841	-1.841	-1.876	-1.150	-1.009				
378.3347	1.5	18360.646	2.5	44784.761	-3.349	-3.234	-2.650	-3.464		-3.440		
381.4124	1.5	38214.507	2.5	64425.408	-2.316	-2.476	-1.820	-1.924				
382.4929	2.5	20830.582	2.5	46967.444	-3.273	-4.920	-1.800	-1.907		-3.240		-2.000
382.7083	2.5	38164.194	3.5	64286.345	-2.426	-2.570	-2.600	-3.482				
383.3013	1.5	21308.040	1.5	47389.779	-4.686	-4.580	-1.390	-1.347				
390.6035	2.5	44929.550	3.5	70523.706	-1.703	-1.670	-3.400	-4.060				
393.8290	2.5	13474.411	2.5	38858.958	-4.032	-4.186	-3.400	-4.060		-2.600		
393.8970	1.5	47674.721	2.5	73054.881	-1.790	-1.893	-1.390	-1.287				
397.4167	1.5	21812.055	2.5	46967.444	-3.476	-4.130	-1.700	-1.593		-3.540		-2.699
397.5016	2.5	48039.090	1.5	73189.110	-2.492	-2.413	-1.700	-1.593				
400.2543	2.5	48039.090	3.5	73016.147	-2.001	-2.032	-1.470	-1.368				
402.4547	2.5	36252.918	2.5	61093.413	-2.130	-2.193	-1.950	-2.134				
404.8832	3.5	44915.046	3.5	69606.552	-2.238	-2.297	-1.750	-1.729				
408.7284	2.5	20830.582	1.5	45289.801	-4.932	-4.999	-4.410	-4.410		-4.410		
411.9524	2.5	20516.960	2.5	44784.761	-4.771	-5.010	-3.510	-3.300				
412.2668	2.5	20830.582	2.5	45079.879	-3.656	-3.730	-3.150	-3.964		-4.200		
412.4787	2.5	20516.960	3.5	44753.799	-5.070	-5.151	-2.760	-3.581				
412.8748	2.5	20830.582	1.5	45044.168	-3.555	-3.534	-2.010	-2.824				
413.8405	3.5	22810.357	2.5	46967.444	-4.560	-4.620	-2.010	-2.824				
416.0623	2.5	22939.358	2.5	46967.444	-5.135	-5.200	-2.010	-2.824				
417.3461	2.5	20830.582	2.5	44784.761	-2.586	-2.596	-2.010	-2.824				
417.7692	2.5	20516.960	3.5	44446.878	-3.855	-4.020	-2.000	-2.814				
417.8862	2.5	20830.582	3.5	44753.799	-2.898	-2.947	-2.000	-2.814				
421.1801	1.5	21308.040	1.5	45044.168	-5.136	-5.040	-2.000	-2.814		-2.710		
422.7173	2.5	23317.633	2.5	46967.444	-5.075	-5.020	-1.430	-2.236				
423.3172	2.5	20830.582	3.5	44446.878	-1.904	-1.917	-1.430	-2.236				

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	SW	BR	GHP	G	CB	KU
318.0149	1.5	38214.507	2.5	69650.484	-1.133	-1.105	-0.260	-0.238							
318.3114	1.5	13673.185	2.5	45079.879	-2.581	-2.586	-1.670	-2.492							-2.398
318.5317	0.5	13904.824	1.5	45289.801	-3.290	-3.302	-1.990	-2.818							-1.377
318.6738	1.5	13673.185	1.5	45044.168	-1.683	-1.688	-0.980	-1.801	-1.620		-1.620				
318.7297	4.5	33466.463	4.5	64831.943	-1.041	-1.171	-0.390	-0.484	-1.370	-1.370					
319.2066	3.5	30764.485	4.5	62083.108	-2.154	-1.995	-1.430	-1.590							
319.2909	2.5	13474.411	2.5	44784.761	-1.875	-1.893	-1.170	-1.984							
319.3799	0.5	13904.824	2.5	45206.450	-1.733	-1.731	-0.890	-1.715				-2.190			-1.569
319.6070	2.5	13474.411	3.5	44753.799	-2.219	-2.226	-1.080	-1.894				-1.860			-1.456
320.3514	3.5	31483.176	2.5	62689.880	-3.337	-3.114	-1.620	-1.765				-1.720			-1.444
321.0444	0.5	13904.824	1.5	45044.168	-1.694	-1.688	-0.960	-1.781							-1.495
321.3309	1.5	13673.185	2.5	44784.761	-1.307	-1.306	-0.780	-1.594	-1.220		-1.299		-2.190		-1.056
322.7742	2.5	13474.440	3.5	44446.878	-1.072	-1.080							-1.450	1.090	-0.900
322.6367	2.5	44929.550	2.5	75915.215	-1.895	-1.866	-0.350	-0.178							
323.1706	2.5	31387.948	3.5	62322.431	-1.709	-2.050	-1.160	-1.314							
323.2785	3.5	33501.253	2.5	64425.408	-1.461	-1.518	-0.750	-0.854							
323.7399	1.5	31364.440	1.5	62244.520	-1.971	-1.784	-1.240	-1.396			-1.380				
323.7820	0.5	31368.450	1.5	62244.520	-1.335	-1.418	-0.740	-0.896							
324.1685	3.5	31483.176	3.5	62322.431	-2.482	-2.211	-1.600	-1.754							
324.3723	4.5	33466.463	3.5	64286.345	-1.286	-1.319	-0.610	-0.717							
324.7175	1.5	31364.440	2.5	62151.561	-1.149	-1.129	-0.540	-0.698							
324.7389	3.5	33501.253	3.5	64286.345	-1.923	-2.147	-1.570	-1.677							
324.9656	2.5	31387.948	3.5	38660.043	-2.520	-2.502	-1.970	-2.625							
325.5887	3.5	7955.299	3.5	75600.931	-1.711	-1.693	-0.890	-0.726							
325.7888	3.5	44915.046	3.5	62065.521	-1.232	-1.050	-0.480	-0.640							-2.167
325.8771	2.5	31387.948	3.5	62158.110	-0.981	-0.941	-0.340	-0.498							-0.980
325.9051	3.5	31483.176	4.5	62083.108	-2.133	-3.238	-1.570	-1.730							-0.790
326.6936	4.5	30388.542	4.5	60989.444	-2.132	-2.770	-1.490	-1.676							
326.7039	3.5	31483.176	4.5	62083.108	-2.133	-3.238	-1.570	-1.730							
326.8510	3.5	33501.253	2.5	64087.418	-1.742	-1.716	-1.610	-1.722							
326.9765	4.5	33466.463	3.5	64040.886	-1.832	-2.005	-1.590	-1.703							
327.3490	3.5	33501.253	3.5	64040.886	-1.822	-1.832	-1.360	-1.473							
327.6604	2.5	31811.822	3.5	62322.431	-1.990	-1.941	-1.140	-1.294							
327.7348	3.5	7955.299	4.5	38458.981	-2.370	-2.446	-1.910	-2.560	-2.430		-2.432				-2.796
327.9644	4.5	33466.463	4.5	63948.790	-2.169	-1.994	-1.510	-1.625							-2.481
328.1292	2.5	8391.938	2.5	38858.958	-2.695	-2.693	-2.180	-2.840							
328.5408	1.5	8680.454	0.5	39109.307	-3.748	-3.851									
328.9354	3.5	30764.485	3.5	61156.835	-1.458	-1.471	-0.920	-1.102							
329.5817	1.5	8680.454	1.5	39013.206	-2.988	-3.004	-2.460	-3.124							-2.959
329.6836	3.5	31999.048	3.5	62322.431	-2.597	-2.664	-1.870	-2.024							
329.7880	2.5	31811.822	1.5	62125.600	-2.159	-2.257	-1.310	-1.469							
330.2857	2.5	8391.938	3.5	38660.043	-3.450	-3.600	-2.910	-3.565							-3.523
330.3464	0.5	8846.768	0.5	39109.307	-3.306	-3.338	-2.750	-3.417							-3.699
330.4430	2.5	31811.822	3.5	62065.521	-2.850	-3.231	-1.780	-1.940							
330.5609	3.5	31483.176	3.5	61726.077	-2.778	-2.773	-1.840	-2.009							-3.699
331.3988	0.5	8846.768	1.5	39013.206	-3.960	-3.928	-3.070	-3.734							
332.3063	3.5	31999.048	4.5	62083.108	-1.735	-1.639	-0.940	-1.100							
332.5007	3.5	31999.048	3.5	62065.521	-2.683	-3.021	-1.870	-2.030							
332.9106	3.5	31483.176	4.5	61512.634	-2.563	-2.476	-1.630	-1.804							
333.8516	2.5	31387.948	1.5	61332.764	-2.371	-2.329	-1.580	-1.758							
335.6250	6.5	32875.646	5.5	62662.244	-2.721	-2.722	-1.800	-1.946							
335.8247	2.5	31387.948	3.5	61156.835	-2.640	-2.545	-1.740	-1.922							
336.0115	5.5	32909.905	5.5	62662.244	-2.356	-2.592	-1.330	-1.476	-1.770	-1.770					
336.6967	3.5	44915.046	2.5	74606.841	-1.680	-1.635	-1.250	-1.109							
338.1006	2.5	44929.550	1.5	74498.057	-1.695	-1.639	-1.020	-0.882							
338.8138	3.5	31483.176	4.5	60989.444	-3.271	-4.911	-2.010	-2.196							
339.8360	6.5	32875.646	6.5	62293.164	-2.172	-2.360	-1.680	-1.835							
341.4136	2.5	31811.822	2.5	61093.413	-3.139	-3.362	-2.020	-2.204							

WL(NM)	JLO	ELO	JUP	EUP	K	KP	BSS	G	P	NBS	WBW
523.4625	3.5	25981.629	2.5	45079.879	-2.311	-2.310	-2.500	-2.290			
526.4812	2.5	26055.423	1.5	45044.168	-3.488	-3.508	-3.190	-3.010	-3.140		
527.6002	4.5	25805.328	3.5	44753.799	-2.230	-2.225	-2.390	-2.390	-1.850	-1.960	-1.959
528.4109	2.5	23317.633	3.5	42237.033	-3.503	-7.799	-3.190	-3.230	-3.000		
531.6615	5.5	25428.784	4.5	44232.512	-2.090	-2.076	-3.320	-3.500	-3.150	-1.720	-1.721
532.5553	3.5	25981.629	3.5	44753.799	-3.426	-3.379	-3.320	-3.500	-3.150		
533.7732	2.5	26055.423	2.5	44784.761	-4.085	-4.070	-2.730	-2.520	-3.500		
536.2867	4.5	25805.328	3.5	44446.878	-2.918	-2.920	-3.790	-3.530	-3.290		
541.4073	3.5	25981.629	3.5	44446.878	-3.958	-3.920	-3.790	-3.530	-3.290		
542.5257	4.5	25805.328	4.5	44232.512	-3.600	-3.540	-3.360	-3.530	-3.100		
553.4847	5.5	26170.181	4.5	44232.512	-3.273	-3.386	-2.930	-2.940	-2.760		
562.7497	3.5	27314.922	2.5	45079.879	-4.395	-4.602	-4.360				
581.3677	2.5	44929.550	1.5	62125.600	-2.901	-2.889	-3.740	-3.710			
599.1376	5.5	25428.784	4.5	42114.818	-3.781	-3.878	-3.740	-3.710			
608.4111	4.5	25805.328	3.5	42237.033	-4.037	-4.114	-3.980	-4.110			
611.3322	3.5	25981.629	2.5	42334.822	-4.398	-4.469	-4.310				
614.7741	1.5	31364.440	0.5	47626.076	-2.891	-2.890	-2.330	-2.800	-2.800		
614.9258	0.5	31368.450	0.5	47626.076	-2.893	-2.892	-2.920	-2.750	-2.750		
623.8392	1.5	31364.440	1.5	47389.779	-2.799	-2.800		-2.360	-2.360		
623.9953	0.5	31368.450	1.5	47389.779	-3.607	-3.614		-3.550	-3.550		
624.7557	2.5	31387.948	1.5	47389.779	-2.501	-2.496	-2.510	-2.470	-2.410		
636.9462	2.5	23317.633	1.5	39013.206	-4.432	-9.671	-4.360	-4.140	-4.140		
638.3722	2.5	44784.761	2.5	60445.275	-2.760	-4.568	-2.270				
641.6919	2.5	31387.948	2.5	46967.444	-2.910	-2.918	-2.850	-2.920	-2.540		
643.2680	2.5	23317.633	2.5	38858.958	-3.888	-8.740	-3.740	-3.800	-3.640		
644.6410	3.5	50187.813	4.5	65696.038	-2.206	-2.149	-2.160				
645.6383	3.5	31483.176	2.5	46967.444	-2.251	-2.247	-2.300	-2.220	-2.280		
651.6081	2.5	23317.633	3.5	38660.043	-3.633	-8.206	-3.450	-3.490	-3.180		
722.4487	0.5	31368.450	0.5	45206.450	-3.481	-3.484	-3.400				
730.1560	2.5	31387.948	2.5	45079.879	-5.300	-3.880	-3.880				
730.8073	1.5	31364.440	1.5	45044.168	-3.248	-3.250	-3.240				
746.2407	2.5	31387.948	2.5	44784.761	-2.964	-2.980	-3.050				
747.9694	2.5	31387.948	3.5	44753.799	-3.688	-3.675	-3.880				
751.5832	3.5	31483.176	2.5	44784.761	-3.634	-3.701	-3.680				
771.1724	3.5	31483.176	3.5	44446.878	-2.773	-2.812	-2.740	-2.780			

WL(NM)	JLO	ELO	JUP	EUP	K	KP	WAR	WA	NBS	SW	BR	WBW	BCHR	BSS	G	P	KU
425.8154	1.5	21812.055	1.5	45289.801	-3.932	-3.994	-2.590	-3.418							-3.510	-3.200	
427.3326	1.5	21812.055	0.5	45206.450	-3.326	-3.346	-2.270	-3.095							-3.530		
427.8159	3.5	21711.917	2.5	45079.879	-3.974	-3.890								-3.870			
429.6572	1.5	21812.055	2.5	45079.879	-3.326	-3.365	-2.360	-3.182							-3.130		
430.3176	1.5	21812.055	1.5	45044.168	-2.508	-2.530	-2.000	-2.821							-2.680	-2.350	-2.222
431.4310	4.5	21581.638	3.5	44753.799	-3.603	-3.556	-2.810	-3.624							-2.160		-1.854
435.1768	1.5	21812.055	2.5	44784.761	-2.198	-2.110	-1.760	-2.574							-2.650	-3.590	
436.9411	0.5	22409.852	1.5	45289.801	-4.056	-4.110	-2.020	-2.845							-2.660	-2.660	-2.301
438.5387	0.5	22409.852	0.5	45206.450	-2.610	-2.631									-4.160		
441.3601	4.5	21581.638	4.5	44232.512	-4.020	-4.079	-2.090	-2.911	-2.340	-2.337					-2.740	-2.790	-2.222
441.6830	0.5	22409.852	1.5	45044.168	-2.603	-2.616									-3.630	-3.590	
447.2929	2.5	22939.358	1.5	45289.801	-4.762	-4.310									-3.040	-3.120	
448.9183	3.5	22810.357	2.5	45079.879	-3.690	-3.499	-2.230	-3.052							-3.040	-3.120	
449.1405	1.5	23031.300	1.5	45289.801	-2.780	-2.891	-2.090	-2.918							-2.930	-2.830	
450.8288	1.5	23031.300	0.5	45206.450	-2.417	-2.411	-1.760	-2.585							-2.520	-2.680	
451.5339	2.5	22939.358	2.5	45079.879	-2.567	-2.657	-1.910	-2.732							-2.620	-2.640	
452.0224	4.5	22637.205	3.5	44753.799	-3.198	-3.087	-1.870	-2.684							-2.690		
452.2634	2.5	22939.358	1.5	45044.168	-2.222	-2.222	-1.510	-2.331							-2.300		
453.4168	1.5	23031.300	2.5	45079.879	-3.327	-3.462									-3.360	-3.290	
454.1524	1.5	23031.300	1.5	45044.168	-2.932	-2.923	-2.290	-3.111	-2.570	-2.569					-3.120		
454.9474	3.5	22810.357	2.5	44784.761	-2.055	-2.066	-1.410	-2.224							-2.670	-2.670	
455.5893	3.5	22810.357	3.5	44753.799	-2.420	-2.511	-1.790	-2.604							-2.460	-2.800	
457.6340	2.5	22939.358	2.5	44784.761	-2.893	-2.896	-2.220	-3.034	-2.970	-3.100					-3.080	-3.130	-3.250
458.0063	2.5	20830.582	3.5	42658.224	-3.764	-3.480	-2.870	-3.629							-3.230	-3.390	
458.2835	2.5	22939.358	3.5	44753.799	-3.165	-3.299	-2.440	-3.254							-2.060	-2.200	
458.3837	4.5	22637.205	3.5	44446.878	-1.895	-1.920	-1.250	-2.056	-3.080	-1.799	-1.854				-2.060	-2.200	
459.5682	1.5	23031.300	2.5	44784.761	-4.306	-4.280									-4.530		
459.8494	3.5	62945.038	3.5	84685.198	-1.868	-1.892	-0.720	-0.338									
460.1378	2.5	23317.633	1.5	45044.168	-4.536	-7.020	-2.630	-3.436							-3.430	-4.560	
462.0521	3.5	22810.357	3.5	44446.878	-3.126	-3.147	-0.310	0.084	-3.330						-3.400	-3.450	
462.5481	0.5	63559.488	0.5	85172.809	-2.458	-2.473											
462.8786	2.5	63272.976	2.5	84870.863	-2.035	-2.001	-0.600	-0.213							-2.550		
462.9339	4.5	22637.205	4.5	44232.512	-2.387	-2.500	-1.780	-2.580	-2.370	-2.367	-2.268	-2.440					
463.1873	1.5	63465.109	1.5	85048.602	-2.256	-2.556	-0.880	-0.489									
463.5316	2.5	48039.090	3.5	69606.552	-1.669	-1.637	-0.950	-0.929									
464.8944	2.5	20830.582	2.5	42334.822	-4.667	-4.462	-2.940	-3.691									
465.2216	0.5	63559.488	1.5	85048.602	-2.578	-2.890	-0.500	-0.109									
465.6981	2.5	23317.633	2.5	44784.761	-3.657	-4.890	-2.530	-3.344	-3.640						-3.810	-3.770	
466.3708	2.5	23317.633	3.5	44753.799	-4.427	-6.556	-2.570	-3.384							-3.920	-4.020	
466.6758	3.5	22810.357	4.5	44232.512	-3.287	-3.430	-2.640	-3.440							-3.460	-3.540	
467.0182	2.5	20830.582	3.5	42237.033	-4.138	-4.056	-2.870	-3.618							-4.220		
473.1453	2.5	23317.633	3.5	44446.878	-3.143	-5.341	-2.260	-3.066	-4.110						-3.240		
489.3812	4.5	65696.038	4.5	86124.301	-3.667	-3.163											
492.3927	2.5	23317.633	1.5	43620.957	-1.682				-1.360	-1.357	-1.444	-1.530			-1.710	-1.570	
495.3987	2.5	44929.550	3.5	65109.679	-2.948	-3.009			-2.330						-3.670		
499.3358	4.5	22637.205	3.5	42658.224	-3.709	-3.273			-3.680						-3.820	-3.670	
500.0743	0.5	22409.852	1.5	42401.302	-4.682	-4.465									-4.740		
501.8440	2.5	23317.633	2.5	43238.586	-1.524	-7.763									-1.600	-1.300	
501.9462	3.5	44915.046	4.5	64831.943	-2.892	-3.030											
510.0664	4.5	22637.205	3.5	42237.033	-4.300	-4.532									-4.370		
513.2669	4.5	22637.205	4.5	42114.818	-4.114	-4.143									-4.180		
513.6802	2.5	22939.358	1.5	42401.302	-4.454	-4.639									-4.490		
516.9023	2.5	23317.633	3.5	42658.224	-1.428	-7.090									-1.500	-1.660	
519.7577	2.5	26055.423	1.5	45289.801	-2.395	-2.390			-2.250	-2.240					-2.590	-2.380	

Table 10. Notorious KP multiplets.

MULT	WL	ELO	JLO	LABEL	EUP	JUP	LABEL	K	KP
40	651.6081	23317.633	2.5	D5S2(7S)6S	38660.043	3.5	4P (5D)6D	-3.633	-8.210
40	643.2680	23317.633	2.5	D5S2(7S)6S	38858.958	2.5	4P (5D)6D	-3.888	-8.740
40	636.9462	23317.633	2.5	D5S2(7S)6S	39013.206	1.5	4P (5D)6D	-4.432	-9.670
41	528.4109	23317.633	2.5	D5S2(7S)6S	42237.033	3.5	4P (5D)6F	-3.503	-7.800
41	525.6938	23317.633	2.5	D5S2(7S)6S	42334.822	2.5	4P (5D)6F	-4.428	-8.170
41	523.8624	23317.633	2.5	D5S2(7S)6S	42401.302	1.5	4P (5D)6F	-5.469	-8.960
42	516.9033	23317.633	2.5	D5S2(7S)6S	42658.224	3.5	4P (5D)6P	-1.428	-7.090
42	501.8440	23317.633	2.5	D5S2(7S)6S	43238.586	2.5	4P (5D)6P	-1.524	-7.760
42	492.3927	23317.633	2.5	D5S2(7S)6S	43620.957	1.5	4P (5D)6P	-1.682	-
43	473.1453	23317.633	2.5	D5S2(7S)6S	44446.878	3.5	4P (5D)4D	-3.143	-5.340
43	465.6981	23317.633	2.5	D5S2(7S)6S	44784.761	2.5	4P (5D)4D	-3.657	-6.090
43	460.1378	23317.633	2.5	D5S2(7S)6S	45044.168	1.5	4P (5D)4D	-4.536	-7.020
44	466.3708	23317.633	2.5	D5S2(7S)6S	44753.799	3.5	4P (5D)4F	-4.427	-6.560
44	459.3827	23317.633	2.5	D5S2(7S)6S	45079.879	2.5	4P (5D)4F	-5.103	-7.530
44	454.9937	23317.633	2.5	D5S2(7S)6S	45289.801	1.5	4P (5D)4F	-6.308	-8.780

Table 11. Comparison of K, KP, and BSS.

WL	EVEN E	J	LABEL	ODD E	J	LABEL	BSS	BSS-KP	BSS-K	K-KP
412.4787	20516.960	2.5	D7 (5D)2D	44753.799	3.5	4P (5D)4F	-4.20	0.95	0.87	0.08
417.8862	20830.582	2.5	D6S (3P)4P	44753.799	3.5	4P (5D)4F	-2.71	0.24	0.19	0.05
441.3601	21581.638	4.5	D6S (3H)4H	44232.512	4.5	4P (5D)4F	-3.87	0.21	0.15	0.06
441.6830	22409.852	0.5	D6S (3P)4P	45044.168	1.5	4P (5D)4D	-2.61	0.01	-0.01	0.02
449.1405	23031.300	1.5	D6S (3F)4F	45289.801	1.5	4P (5D)4F	-2.70	0.19	0.08	0.11
450.8288	23031.300	1.5	D6S (3F)4F	45206.450	0.5	4P (5D)4D	-2.43	-0.02	-0.01	-0.01
454.1524	23031.300	1.5	D6S (3F)4F	45044.168	1.5	4P (5D)4D	-2.99	-0.07	-0.06	-0.01
455.5893	22810.357	3.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F	-2.36	0.15	0.06	0.09
457.6340	22939.358	2.5	D6S (3F)4F	44784.761	2.5	4P (5D)4D	-3.08	-0.18	-0.19	0.01
458.2835	22939.358	2.5	D6S (3F)4F	44753.799	3.5	4P (5D)4F	-3.30	0.00	-0.13	0.14
462.0521	22810.357	3.5	D6S (3F)4F	44446.878	3.5	4P (5D)4D	-3.40	-0.25	-0.27	0.02
465.6981	23317.633	2.5	D5S2(7S)6S	44784.761	2.5	4P (5D)4D	-3.81	2.28	-0.15	2.43
467.0182	20830.582	2.5	D6S (3P)4P	42237.033	3.5	4P (5D)6F	-4.22	-0.16	-0.08	-0.08
499.3358	22637.205	4.5	D6S (3F)4F	42658.224	3.5	4P (5D)6P	-3.82	-0.55	-0.11	-0.44
500.0743	22409.852	0.5	D6S (3P)4P	42401.302	1.5	4P (5D)6F	-4.74	-0.27	-0.06	-0.21
510.0664	22637.205	4.5	D6S (3F)4F	42237.033	3.5	4P (5D)6F	-4.37	0.16	-0.07	0.23
513.2669	22637.205	4.5	D6S (3F)4F	42114.818	4.5	4P (5D)6F	-4.18	-0.04	-0.07	0.03
513.6802	22939.358	2.5	D6S (3F)4F	42401.302	1.5	4P (5D)6F	-4.49	0.15	-0.04	0.19
526.4812	26055.423	2.5	D6S (3G)4G	45044.168	1.5	4P (5D)4D	-3.19	0.32	0.30	0.02
528.4109	23317.633	2.5	D5S2(7S)6S	42237.033	3.5	4P (5D)6F	-3.19	4.61	0.31	4.30
532.5553	25981.629	3.5	D6S (3G)4G	44753.799	3.5	4P (5D)4F	-3.32	0.06	0.11	-0.05
541.4073	25981.629	3.5	D6S (3G)4G	44446.878	3.5	4P (5D)4D	-3.79	0.13	0.17	-0.04
542.5257	25805.328	4.5	D6S (3G)4G	44232.512	4.5	4P (5D)4F	-3.36	0.18	0.24	-0.06
553.4847	26170.181	5.5	D6S (3H)2H	44232.512	4.5	4P (5D)4F	-2.93	0.46	0.34	0.12
562.7497	27314.922	3.5	D6S (3F)2F	45079.879	2.5	4P (5D)4F	-4.36	0.24	0.03	0.21
599.1376	25428.784	5.5	D6S (3G)4G	42114.818	4.5	4P (5D)6F	-3.74	0.14	0.04	0.10
608.4111	25805.328	4.5	D6S (3G)4G	42237.033	3.5	4P (5D)6F	-3.98	0.13	0.06	0.07
611.3322	25981.629	3.5	D6S (3G)4G	42334.822	2.5	4P (5D)6F	-4.31	0.16	0.09	0.07
614.9258	31368.450	0.5	D6S (3D)4D	47626.076	0.5	4P (5D)4P	-2.92	-0.03	-0.03	0.00
624.7557	31387.948	2.5	D6S (3D)4D	47389.779	1.5	4P (5D)4P	-2.51	-0.01	-0.01	0.00
636.9462	23317.633	2.5	D5S2(7S)6S	39013.206	1.5	4P (5D)6D	-4.36	5.31	0.07	5.24
638.3722	60445.275	2.5	D5S2(7S)4D	44784.761	2.5	4P (5D)4D	-2.27	2.30	0.49	1.81
641.6919	31387.948	2.5	D6S (3D)4D	46967.444	2.5	4P (5D)4P	-2.85	0.07	0.06	0.01
643.2680	23317.633	2.5	D5S2(7S)6S	38858.958	2.5	4P (5D)6D	-3.74	5.00	0.15	4.85
644.6410	50187.813	3.5	D6S (3F)4F	65696.038	4.5	4P (3G)4G	-2.16	-0.01	0.05	-0.06
645.6383	31483.176	3.5	D6S (3D)4D	46967.444	2.5	4P (5D)4P	-2.30	-0.05	-0.05	0.00
651.6081	23317.633	2.5	D5S2(7S)6S	38660.043	3.5	4P (5D)6D	-3.45	4.76	0.18	4.58
722.4487	31368.450	0.5	D6S (3D)4D	45206.450	0.5	4P (5D)4D	-3.40	-0.02	0.08	-0.10
730.1560	31387.948	2.5	D6S (3D)4D	45079.879	2.5	4P (5D)4F	-3.88	6.11	1.42	4.69
747.9694	31387.948	2.5	D6S (3D)4D	44753.799	3.5	4P (5D)4F	-3.88	-0.21	-0.19	-0.02
751.5832	31483.176	3.5	D6S (3D)4D	44784.761	2.5	4P (5D)4D	-3.68	0.02	-0.05	0.07
771.1724	31483.176	3.5	D6S (3D)4D	44446.878	3.5	4P (5D)4D	-2.74	0.07	0.03	0.04

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APPENDIX
FORBIDDEN TRANSITIONS

WL(NM)	LOGGF	E LOWER	J	LABEL	E UPPER	J	LABEL	WL(NM)	LOGGF	E LOWER	J	LABEL	E UPPER	J	LABEL
317.5381	-8.575	0.000	4.5	D6S (5D)6D	31483.176	3.5	D6S (3D)4D	428.7394	-7.732	0.000	4.5	D6S (5D)6D	23317.633	2.5	D5S2(7S)6S
321.4672	-9.068	384.790	3.5	D6S (5D)6D	31483.176	3.5	D6S (3D)4D	430.5890	-8.287	2837.950	2.5	D7 (5D)4F	26055.423	2.5	D6S (3G)4G
322.4547	-9.366	384.790	3.5	D6S (5D)6D	31387.948	2.5	D6S (3D)4D	431.9619	-7.926	2837.950	2.5	D7 (5D)4F	25981.629	3.5	D6S (3G)4G
324.4185	-9.436	667.683	2.5	D6S (5D)6D	31483.176	3.5	D6S (3D)4D	434.6852	-8.146	2430.097	3.5	D7 (5D)4F	25428.784	5.5	D6S (3G)4G
325.4242	-8.942	667.683	2.5	D6S (5D)6D	31387.948	2.5	D6S (3D)4D	435.2778	-8.055	2837.950	2.5	D7 (5D)4F	25805.328	4.5	D6S (3G)4G
327.5023	-9.267	862.613	1.5	D6S (5D)6D	31387.948	2.5	D6S (3D)4D	435.8360	-7.904	3117.461	1.5	D7 (5D)4F	26055.423	2.5	D6S (3G)4G
327.7117	-9.879	862.613	1.5	D6S (5D)6D	31368.450	0.5	D6S (3D)4D	435.9333	-7.853	384.790	3.5	D6S (5D)6D	23317.633	2.5	D5S2(7S)6S
327.7548	-8.987	862.613	1.5	D6S (5D)6D	31364.440	1.5	D6S (3D)4D	437.2427	-8.192	3117.461	1.5	D7 (5D)4F	25981.629	3.5	D6S (3G)4G
328.9457	-9.146	977.053	0.5	D6S (5D)6D	31368.450	0.5	D6S (3D)4D	438.2742	-8.897	0.000	4.5	D6S (5D)6D	22810.357	3.5	D6S (3F)4F
328.9891	-9.402	977.053	0.5	D6S (5D)6D	31364.440	1.5	D6S (3D)4D	438.2967	-9.939	7955.299	3.5	D6S (5D)4D	30764.485	3.5	D6S (3G)2G
331.8384	-8.201	1872.567	4.5	D7 (5D)4F	31999.048	3.5	D7 (5D)2F	441.3781	-7.993	667.683	2.5	D6S (5D)6D	23317.633	2.5	D5S2(7S)6S
337.6198	-9.006	1872.567	4.5	D7 (5D)4F	31483.176	3.5	D6S (3D)4D	441.6266	-7.871	0.000	4.5	D6S (5D)6D	22637.205	4.5	D6S (3F)4F
338.0955	-10.064	2430.097	3.5	D7 (5D)4F	31999.048	3.5	D7 (5D)2F	443.2447	-9.020	384.790	3.5	D6S (5D)6D	22939.358	2.5	D6S (3F)4F
338.7092	-8.685	1872.567	4.5	D7 (5D)4F	31387.948	2.5	D6S (3D)4D	445.2097	-8.181	862.613	1.5	D6S (5D)6D	23317.633	2.5	D5S2(7S)6S
340.2500	-9.903	2430.097	3.5	D7 (5D)4F	31811.822	2.5	D7 (5D)2F	445.7945	-8.160	384.790	3.5	D6S (3F)4F	22810.357	3.5	D6S (3F)4F
342.8243	-9.596	2837.950	2.5	D7 (5D)4F	31999.048	3.5	D7 (5D)2F	446.8510	-10.116	8391.938	2.5	D6S (5D)4D	30764.485	3.5	D6S (3G)2G
344.0990	-8.467	2430.097	3.5	D7 (5D)4F	31483.176	3.5	D6S (3D)4D	447.4294	-9.459	667.683	2.5	D6S (5D)6D	23031.300	1.5	D6S (3F)4F
345.5111	-8.589	2837.950	2.5	D7 (5D)4F	31881.822	2.5	D7 (5D)2F	447.4904	-8.489	977.053	0.5	D6S (5D)6D	23317.633	2.5	D5S2(7S)6S
345.2306	-8.402	2430.097	3.5	D7 (5D)4F	31387.948	2.5	D6S (3D)4D	447.9121	-8.363	15844.650	4.5	D7 (5D)2G	38164.194	2.5	D6S (1D)2D
348.4008	-9.281	3117.461	1.5	D7 (5D)4F	31364.440	1.5	D6S (3D)4D	448.8749	-8.566	667.683	2.5	D6S (5D)6D	22939.358	2.5	D6S (3F)4F
348.9984	-9.291	2837.950	2.5	D7 (5D)4F	31483.176	3.5	D6S (3D)4D	449.2634	-8.741	384.790	3.5	D6S (5D)6D	22637.205	4.5	D6S (3F)4F
350.1625	-8.426	2837.950	2.5	D7 (5D)4F	31483.176	3.5	D6S (3D)4D	450.9602	-9.150	862.613	1.5	D6S (5D)6D	23031.300	1.5	D6S (3F)4F
350.4019	-8.718	2837.950	2.5	D7 (5D)4F	31387.948	2.5	D6S (3D)4D	451.4900	-8.792	667.683	2.5	D6S (5D)6D	22810.357	3.5	D6S (3F)4F
350.5803	-10.155	2837.950	2.5	D7 (5D)4F	31368.450	0.5	D6S (3D)4D	452.8383	-9.071	862.613	1.5	D6S (5D)6D	22939.358	2.5	D6S (3F)4F
350.4511	-8.811	2837.950	2.5	D7 (5D)4F	31364.440	1.5	D6S (3D)4D	453.3003	-9.705	977.053	0.5	D6S (5D)6D	23031.300	1.5	D6S (3F)4F
352.8272	-10.484	2430.097	3.5	D7 (5D)4F	30388.542	4.5	D6S (3G)2G	457.6393	-8.220	16369.360	3.5	D7 (5D)2G	38214.507	1.5	D6S (1D)2D
353.2856	-8.649	7955.299	3.5	D6S (5D)4D	30764.485	3.5	D6S (3G)2G	458.6958	-9.519	16369.360	3.5	D7 (5D)2G	38164.194	2.5	D6S (3H)4H
353.6247	-9.150	3117.461	1.5	D7 (5D)4F	31387.948	2.5	D6S (3D)4D	463.9667	-8.500	862.613	1.5	D6S (5D)6D	22409.852	0.5	D6S (3P)4P
353.8688	-8.823	3117.461	1.5	D7 (5D)4F	31368.450	0.5	D6S (3D)4D	466.4440	-9.009	977.053	0.5	D6S (5D)6D	22409.852	0.5	D6S (3P)4P
353.9190	-8.544	3117.461	1.5	D7 (5D)4F	31364.440	1.5	D6S (3D)4D	472.8068	-8.191	667.683	2.5	D6S (5D)6D	21812.055	1.5	D6S (3P)4P
357.5716	-10.240	2430.097	3.5	D7 (5D)4F	30388.542	4.5	D6S (3G)2G	474.5480	-9.579	1872.567	4.5	D7 (5D)4F	22939.358	2.5	D6S (3F)4F
357.9802	-10.609	2837.950	2.5	D7 (5D)4F	30764.485	3.5	D6S (3G)2G	477.2063	-9.450	862.613	1.5	D6S (5D)6D	21812.055	1.5	D6S (3P)4P
358.8225	-9.356	8391.938	2.5	D6S (5D)4D	36252.918	2.5	D6S (3D)2D	477.4718	-8.449	1872.567	4.5	D7 (5D)4F	22810.357	3.5	D6S (3F)4F
362.5773	-9.136	8680.454	1.5	D6S (5D)4D	36252.918	2.5	D6S (3D)2D	479.8274	-8.946	977.053	0.5	D6S (5D)6D	21812.055	1.5	D6S (3F)4F
364.2489	-9.248	8680.454	1.5	D6S (5D)4D	36126.387	1.5	D6S (3D)2D	481.4534	-7.857	1872.567	4.5	D7 (5D)4F	22637.205	4.5	D6S (3F)4F
366.4697	-8.948	8846.768	0.5	D6S (5D)4D	36126.387	1.5	D6S (3D)2D	485.2730	-9.508	2430.097	3.5	D7 (5D)4F	23031.300	1.5	D6S (3F)4F
387.4071	-9.502	0.000	4.5	D6S (5D)6D	25805.328	4.5	D6S (3G)4G	487.4485	-8.440	2430.097	3.5	D7 (5D)4F	22939.358	2.5	D6S (3F)4F
390.5626	-8.835	384.790	3.5	D6S (5D)6D	25981.629	3.5	D6S (3G)4G	488.9616	-8.111	384.790	3.5	D6S (5D)6D	20830.582	2.5	D6S (3P)4P
392.9341	-10.141	1872.567	4.5	D7 (5D)4F	27314.922	3.5	D6S (3F)2F	489.8607	-7.752	15844.650	4.5	D7 (5D)2G	36252.918	2.5	D6S (3D)2D
396.8657	-10.735	2430.097	3.5	D7 (5D)4F	27620.412	2.5	D6S (3F)2F	490.5339	-8.197	2430.097	3.5	D7 (5D)4F	22810.357	3.5	D6S (3F)4F
404.9115	-9.752	13474.411	2.5	D7 (5D)4F	38164.194	2.5	D6S (1D)2D	494.7373	-8.736	2430.097	3.5	D7 (5D)4F	22637.205	4.5	D6S (3F)4F
408.1979	-9.280	13673.185	1.5	D7 (5D)4F	38164.194	2.5	D6S (1D)2D	495.0744	-8.602	2837.950	2.5	D7 (5D)4F	23031.300	1.5	D6S (3F)4F
408.3781	-10.125	1872.567	4.5	D7 (5D)4F	26352.766	4.5	D6S (3H)2H	497.3388	-8.507	2837.950	2.5	D7 (5D)4F	22939.358	2.5	D6S (3F)4F
408.4320	-9.703	2837.950	2.5	D7 (5D)4F	27314.922	3.5	D6S (3F)2F	500.5512	-8.671	2837.950	2.5	D7 (5D)4F	22810.357	3.5	D6S (3F)4F
411.4470	-8.863	1872.567	4.5	D7 (5D)4F	26170.181	5.5	D6S (3H)2H	500.6624	-9.216	862.613	1.5	D6S (5D)6D	20830.582	2.5	D6S (3P)4P
414.6649	-9.746	1872.567	4.5	D7 (5D)4F	25981.629	3.5	D6S (3G)4G	502.0233	-8.565	3117.461	1.5	D7 (5D)4F	23031.300	1.5	D6S (3F)4F
415.7913	-9.428	7955.299	3.5	D6S (5D)4D	31999.048	3.5	D7 (5D)2F	502.7879	-8.704	16369.360	3.5	D7 (5D)2G	36252.918	2.5	D6S (3D)2D
417.7196	-8.436	1872.567	4.5	D7 (5D)4F	25805.328	4.5	D6S (3G)4G	503.5399	-8.777	18360.646	1.5	D7 (5D)2P	38214.507	1.5	D6S (1D)2D
417.8958	-9.874	2430.097	3.5	D7 (5D)4F	26352.766	4.5	D6S (3H)2H	504.3519	-8.828	3117.461	1.5	D7 (5D)4F	22939.358	2.5	D6S (3F)4F
421.1099	-9.116	2430.097	3.5	D7 (5D)4F	26170.181	5.5	D6S (3H)2H	504.8193	-8.016	18360.646	1.5	D7 (5D)2P	38164.194	2.5	D6S (1D)2D
423.1554	-9.413	2430.097	3.5	D7 (5D)4F	26055.423	2.5	D6S (3G)4G	506.0080	-8.014	16369.360	3.5	D7 (5D)2G	36126.387	1.5	D6S (3D)2D
423.4819	-9.754	8391.938	2.5	D6S (5D)4D	31999.048	3.5	D7 (5D)2F	507.2392	-9.071	1872.567	4.5	D7 (5D)4F	21581.638	4.5	D6S (3H)4H
424.3969	-7.535	1872.567	4.5	D7 (5D)4F	25428.784	5.5	D6S (3G)4G	508.3730	-9.634	7955.299	3.5	D6S (5D)4D	27620.412	2.5	D6S (3F)2F
424.4813	-8.267	2430.097	3.5	D7 (5D)4F	25981.629	3.5	D6S (3G)4G	510.7942	-8.726	2837.950	2.5	D7 (5D)4F	22409.852	0.5	D6S (3P)2P
425.1441	-9.628	2837.950	2.5	D7 (5D)4F	26352.766	4.5	D6S (3H)2H	511.1627	-8.328	1872.567	4.5	D7 (5D)4F	21430.359	5.5	D6S (3H)4H
426.6349	-9.406	7955.299	3.5	D6S (5D)4D	31387.948	2.5	D6S (3D)4D	515.8001	-8.320	2430.097	3.5	D7 (5D)4F	21812.055	1.5	D6S (3P)4P
427.6829	-7.749	2430.097	3.5	D7 (5D)4F	25805.328	4.5	D6S (3G)4G	515.8777	-7.609	1872.567	4.5	D7 (5D)4F	21251.608	6.5	D6S (3P)4P

WL(NM)	LOGGF	E UPPER	J	LABEL	E LOWER	J	LABEL	WL(NM)	LOGGF	E LOWER	J	LABEL
516.3951	-7.990	7955.299	3.5	D6S (5D)4D	20516.960	2.5	D7 (5D)2D	635.3116	-8.210	20516.960	2.5	D7 (5D)2D
517.2473	-8.472	18886.780	0.5	D7 (5D)2P	16369.360	3.5	D6S (1D)2D	639.6312	-8.656	16369.360	3.5	D7 (5D)2G
518.1947	-8.563	3117.461	1.5	D7 (5D)4F	20516.960	2.5	D7 (5D)2D	640.4615	-8.796	20516.960	2.5	D7 (5D)2D
518.4788	-9.169	2430.097	3.5	D7 (5D)4F	17171.917	3.5	D6S (3H)4H	644.0400	-9.243	1837.950	2.5	D7 (5D)4F
518.5973	-8.575	18886.780	0.5	D7 (5D)2P	38164.194	2.5	D6S (3H)4H	647.3862	-8.624	16369.360	3.5	D7 (5D)2F
519.9173	-9.335	8391.938	2.5	D6S (5D)4D	27620.412	2.5	D6S (3F)2F	648.2311	-8.799	20830.582	2.5	D6S (3P)4P
522.0059	-8.347	2430.097	3.5	D7 (5D)4F	21430.359	4.5	D6S (3H)4H	648.5282	-8.036	21812.055	1.5	D6S (3P)4P
526.8874	-8.500	2837.950	2.5	D7 (5D)4F	21812.055	1.5	D6S (3P)4F	651.1231	-8.215	22810.357	3.5	D6S (3F)4F
527.3346	-8.034	1872.567	4.5	D7 (5D)4F	20830.582	2.5	D6S (3P)4F	655.8497	-9.384	3117.461	1.5	D7 (5D)4F
527.8374	-9.522	8680.454	1.5	D6S (5D)4D	27620.412	2.5	D6S (3F)2F	656.6401	-9.069	22939.358	2.5	D6S (3F)4F
528.3109	-8.329	8391.938	2.5	D6S (5D)4D	27314.922	3.5	D6S (3F)2F	658.4405	-8.544	23031.300	1.5	D6S (3F)4F
529.6829	-8.514	2837.950	2.5	D7 (5D)4F	21711.917	3.5	D6S (3H)4H	668.9409	-8.752	21308.040	1.5	D7 (5D)2D
533.3646	-7.955	2837.950	2.5	D7 (5D)4F	21581.638	4.5	D6S (3H)4H	670.0637	-9.190	15844.650	4.5	D7 (5D)2G
534.7653	-9.010	3117.461	1.5	D7 (5D)4F	21812.055	1.5	D6S (3P)4F	672.9856	-9.035	7955.299	3.5	D6S (5D)4D
537.6452	-8.045	3117.461	1.5	D7 (5D)4F	21711.917	3.5	D6S (3H)4H	674.6529	-8.816	21308.040	1.5	D7 (5D)2D
541.2654	-8.324	2837.950	2.5	D7 (5D)4F	21308.040	1.5	D7 (5D)2D	674.6926	-8.564	22409.852	0.5	D6S (3P)4P
543.3129	-8.534	2430.097	3.5	D7 (5D)4F	20830.582	2.5	D6S (3P)4P	680.9226	-8.760	7955.299	3.5	D6S (5D)4D
547.7241	-8.403	8680.454	1.5	D6S (5D)4D	26932.748	0.5	D6S (3P)2P	687.2175	-9.029	8391.938	2.5	D6S (5D)4D
549.5824	-8.596	3117.461	1.5	D7 (5D)4F	21308.040	1.5	D7 (5D)2D	687.3842	-8.159	15844.650	4.5	D7 (5D)2G
552.7339	-8.130	2430.097	3.5	D7 (5D)4F	20516.960	2.5	D7 (5D)2D	689.6175	-9.528	1872.567	4.5	D7 (5D)2G
552.7609	-8.959	8846.768	0.5	D6S (5D)4D	26932.748	0.5	D6S (3P)2P	689.6175	-9.528	1872.567	4.5	D7 (5D)2G
555.1310	-8.318	13474.411	2.5	D7 (5D)4P	31483.176	3.5	D6S (3D)4D	694.4881	-8.298	16369.360	3.5	D7 (5D)2G
555.6287	-9.214	2837.950	2.5	D7 (5D)4F	20830.582	2.5	D6S (3P)4P	696.7990	-9.322	8846.768	0.5	D6S (5D)4D
558.0821	-8.439	13474.411	2.5	D7 (5D)4P	31387.948	2.5	D6S (3P)4P	704.7990	-9.476	8680.454	1.5	D6S (5D)4D
558.7454	-8.995	18360.646	1.5	D7 (5D)2P	36252.918	2.5	D6S (3D)2D	713.1118	-9.076	16369.360	3.5	D7 (5D)2G
558.8154	-8.870	13474.411	2.5	D7 (5D)4P	31364.440	1.5	D6S (3D)4D	717.2004	-8.462	2430.097	3.5	D7 (5D)4F
561.3268	-8.559	13673.185	1.5	D7 (5D)4P	31483.176	3.5	D6S (3D)4D	717.2004	-8.462	2430.097	3.5	D7 (5D)4F
562.7249	-8.545	18360.646	1.5	D7 (5D)2P	36126.387	1.5	D6S (3D)2D	743.2247	-9.504	18360.646	1.5	D7 (5D)2P
564.8933	-9.287	20516.960	2.5	D7 (5D)2D	38214.507	1.5	D6S (1D)2D	745.2538	-8.938	2430.097	3.5	D7 (5D)4F
564.9661	-8.815	13673.185	1.5	D7 (5D)4P	31368.450	0.5	D6S (3D)4D	763.7538	-9.689	384.790	3.5	D7 (5D)4F
565.0942	-8.837	13673.185	1.5	D7 (5D)4P	31364.440	1.5	D6S (3D)4D	766.5302	-10.198	862.613	1.5	D6S (5D)6D
565.4856	-9.064	2837.950	2.5	D7 (5D)4F	20516.960	2.5	D7 (5D)2D	768.6938	-9.849	667.683	2.5	D6S (5D)6D
566.2032	-9.609	15844.650	4.5	D7 (5D)2G	33501.253	3.5	D6S (1G)2G	772.0179	-8.586	20516.960	2.5	D7 (5D)2D
566.5038	-9.108	20516.960	2.5	D7 (5D)2D	38164.194	2.5	D6S (1D)2D	773.3157	-10.632	977.050	0.5	D6S (5D)6D
567.3211	-7.839	15844.650	4.5	D7 (5D)2G	33466.463	4.5	D6S (1G)2G	773.4790	-9.626	18886.780	0.5	D7 (5D)2F
571.8215	-8.712	13904.824	0.5	D7 (5D)4P	31387.948	2.5	D6S (3D)4D	776.4683	-8.803	7955.299	3.5	D6S (5D)4D
572.5914	-9.115	13904.824	0.5	D7 (5D)4P	31364.440	1.5	D6S (3D)4D	797.5249	-8.036	20340.300	5.5	D6S (5D)2H
574.5698	-9.413	3117.461	1.5	D7 (5D)4F	20516.960	2.5	D7 (5D)2D	803.7251	-9.236	8391.938	2.5	D6S (5D)4D
574.6966	-8.135	8391.938	2.5	D6S (5D)4D	25787.598	1.5	D6S (3P)2P	804.4841	-8.934	25787.598	1.5	D6S (3P)2P
575.6736	-9.270	18886.780	0.5	D7 (5D)2P	36252.918	2.5	D6S (3D)2D	807.7545	-8.870	25787.598	1.5	D6S (3P)2P
576.7538	-8.610	20830.582	2.5	D6S (3P)4P	38164.194	2.5	D6S (1D)2D	819.9030	-8.815	21308.040	1.5	D7 (5D)2D
579.8988	-8.787	18886.780	0.5	D7 (5D)2P	36126.387	1.5	D6S (3D)2D	822.8104	-9.312	8680.454	1.5	D6S (5D)4D
583.5449	-7.884	16369.360	3.5	D7 (5D)2G	33501.253	3.5	D6S (1G)2G	825.9369	-8.133	20805.770	4.5	D7 (5D)2H
584.3891	-9.513	8680.454	1.5	D6S (5D)4D	25787.598	1.5	D6S (3P)2P	830.6053	-7.809	21430.359	5.5	D6S (3H)4H
584.7323	-8.772	16369.360	3.5	D7 (5D)2G	33466.463	4.5	D6S (1G)2G	838.7228	-7.898	21581.638	4.5	D6S (3H)4H
585.8236	-10.063	15844.650	4.5	D7 (5D)2G	32909.905	5.5	D6S (1I)2I	841.1780	-8.696	21581.638	4.5	D6S (3H)4H
587.0020	-7.995	15844.650	4.5	D7 (5D)2G	32875.646	6.5	D6S (1I)2I	847.9912	-8.064	32875.646	6.5	D6S (1I)2I
590.1263	-9.078	8846.768	0.5	D6S (5D)4D	25787.598	1.5	D6S (3P)2P	848.9687	-9.498	15844.650	4.5	D7 (5D)2G
591.3258	-8.724	21308.040	1.5	D7 (5D)2D	38214.507	1.5	D6S (1D)2D	857.4895	-8.563	20340.300	5.5	D7 (5D)2H
593.0908	-8.655	21308.040	1.5	D7 (5D)2D	38164.194	2.5	D6S (1D)2D	857.4895	-8.563	20340.300	5.5	D7 (5D)2H
598.2652	-8.571	20516.960	2.5	D7 (5D)2D	37227.326	0.5	D6S (1S)2S	860.0500	-7.822	21251.608	6.5	D6S (3H)4H
604.4076	-8.141	16369.360	3.5	D7 (5D)2G	32909.905	5.5	D6S (1I)2I	861.6952	-8.945	1872.567	4.5	D7 (5D)4F
609.4962	-8.980	21812.055	1.5	D6S (3P)4P	38214.507	1.5	D6S (1D)2D	870.6826	-9.228	20516.960	2.5	D7 (5D)2D
611.3716	-9.359	1812.055	1.5	D6S (3P)4P	38164.194	2.5	D6S (1D)2D	870.6826	-9.228	20516.960	2.5	D7 (5D)2D
618.8552	-8.224	15844.650	4.5	D7 (5D)2G	31999.048	3.5	D7 (5D)2F	871.5795	-8.324	15844.650	4.5	D7 (5D)2G
626.1118	-9.307	15844.650	4.5	D7 (5D)2G	31811.822	2.5	D7 (5D)2F	873.4822	-8.204	21430.359	5.5	D6S (3H)4H
627.9952	-8.697	21308.040	1.5	D7 (5D)2D	37227.326	0.5	D6S (1S)2S	873.9067	-8.278	21430.359	5.5	D6S (3H)4H

WL(NM)	LOGGF	E LOWER	J LABEL	E UPPER	J LABEL
882.5052	-8.274	21581.638	4.5 D6S (3H)4H	32909.905	5.5 D6S (1I)2I
885.1153	-9.238	20516.960	2.5 D7 (5D)2D	31811.822	2.5 D7 (5D)2F
888.5618	-9.069	16369.360	3.5 D7 (5D)2G	27620.412	2.5 D6S (3F)2F
889.1912	-9.324	2430.097	3.5 D7 (5D)4F	13673.185	1.5 D7 (5D)4F
893.1481	-9.488	20805.770	4.5 D7 (5D)2H	31999.048	3.5 D7 (5D)2F
903.3496	-9.736	2837.950	2.5 D7 (5D)4F	13904.824	0.5 D7 (5D)4P
905.1948	-9.509	2430.097	3.5 D7 (5D)4F	13474.411	2.5 D7 (5D)4P
908.3417	-8.652	20805.770	4.5 D7 (5D)2H	31811.822	2.5 D7 (5D)2F
913.3616	-9.161	16369.360	3.5 D7 (5D)2G	27314.922	3.5 D6S (3F)2F
922.6617	-9.514	2837.950	2.5 D7 (5D)4F	33501.253	3.5 D6S (1G)2G
923.1710	-7.571	22637.205	4.5 D6S (3F)4F	13673.185	1.5 D7 (5D)4P
926.7563	-9.594	3117.461	1.5 D7 (5D)4F	33466.463	4.5 D6S (1G)2G
935.1187	-7.979	22810.357	3.5 D6S (3F)4F	13904.824	0.5 D7 (5D)4P
938.1717	-8.034	22810.357	3.5 D6S (3F)4F	33501.253	3.5 D6S (1G)2G
938.4810	-8.236	20830.582	2.5 D6S (3F)4F	33466.463	4.5 D6S (1G)2G
943.6632	-8.619	27620.412	2.5 D6S (3F)2F	31483.176	3.5 D6S (3D)4D
946.5401	-8.156	22939.358	2.5 D6S (3F)4F	38214.507	1.5 D6S (1D)2D
946.9462	-8.616	20830.582	2.5 D6S (3F)4F	33501.253	3.5 D6S (1G)2G
947.0935	-10.039	3117.461	1.5 D7 (5D)4F	31387.948	2.5 D6S (3D)4D
948.1662	-8.360	27620.412	2.5 D6S (3F)2F	13673.185	1.5 D7 (5D)4P
949.0595	-8.945	20830.582	2.5 D6S (3F)4F	38164.194	2.5 D6S (1D)2D
951.3844	-8.908	15844.650	4.5 D7 (5D)2G	31364.440	1.5 D6S (3D)4D
951.7770	-9.381	21308.040	1.5 D7 (5D)2D	26352.766	4.5 D6S (3H)2H
955.2749	-8.724	25787.598	1.5 D6S (3P)2P	31811.822	2.5 D7 (5D)2F
959.0446	-9.753	20340.300	5.5 D7 (5D)2H	36252.918	2.5 D6S (3D)2D
966.9661	-8.376	25787.598	1.5 D6S (3P)2P	30764.485	3.5 D6S (3G)2G
968.2077	-8.659	15844.650	4.5 D7 (5D)2G	36126.387	1.5 D6S (3D)2D
971.1188	-8.187	26932.748	0.5 D6S (3P)2P	26170.181	5.5 D6S (3H)2H
979.5159	-10.010	8680.454	1.5 D6S (5D)4D	37227.326	0.5 D6S (1S)2S
994.9262	-8.506	20340.300	5.5 D7 (5D)2H	18886.780	0.5 D7 (5D)2P
1001.3876	-8.823	16369.360	3.5 D7 (5D)2G	30388.542	4.5 D6S (3G)2G
1002.8641	-9.688	8391.938	2.5 D6S (5D)4D	26352.766	4.5 D6S (3H)2H
1003.8704	-8.639	20805.770	4.5 D7 (5D)2H	18360.646	1.5 D7 (5D)2P
1012.7313	-8.932	20516.960	2.5 D7 (5D)2D	30764.485	3.5 D6S (3G)2G
1043.2535	-9.583	20805.770	4.5 D7 (5D)2H	30388.542	4.5 D6S (3G)2G
1046.1330	-8.916	21812.055	1.5 D6S (3P)4P	31368.450	0.5 D6S (3D)4D
1046.5722	-8.549	21812.055	1.5 D6S (3P)4P	31364.440	1.5 D6S (3D)4D
1057.1902	-9.047	21308.040	1.5 D7 (5D)2D	30764.485	3.5 D6S (3G)2G
1079.6452	-9.657	18360.646	1.5 D7 (5D)2P	27620.412	2.5 D6S (3F)2F
1088.6887	-8.546	21581.638	4.5 D6S (3H)4H	30764.485	3.5 D6S (3G)2G
1104.3565	-8.689	21711.917	3.5 D6S (3H)4H	30764.485	3.5 D6S (3G)2G
1115.9405	-8.672	22409.852	0.5 D6S (3F)4P	31368.450	0.5 D6S (3G)4D
1115.9922	-8.428	21430.359	5.5 D6S (3H)4H	30388.542	4.5 D6S (3G)2G
1116.4791	-8.980	18360.646	1.5 D7 (5D)2P	27314.922	3.5 D6S (3F)2F
1135.1620	-9.061	21581.638	4.5 D6S (3H)4H	30388.542	4.5 D6S (3G)2G
1144.6856	-9.514	18886.780	0.5 D7 (5D)2P	27620.412	2.5 D6S (3F)2F
1158.0951	-8.471	27620.412	2.5 D6S (3F)2F	36252.918	2.5 D6S (3D)2D
1165.5095	-8.232	22810.357	3.5 D6S (3F)4F	31387.948	2.5 D6S (3D)4D