

A NEW MULTIPLLET TABLE FOR Fe I

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ABSTRACT

We have recorded spectra of iron-neon and iron-argon hollow cathode lamps in the region 1700 \AA – $5 \text{ }\mu\text{m}$ ($59,000$ – 2000 cm^{-1}), with Fourier transform (FT) spectrometers at the National Solar Observatory, Tucson, Arizona, and Imperial College, London, UK, and with a high-resolution grating spectrograph at the National Institute of Standards and Technology, Gaithersburg, Maryland. The uncertainty of the strongest lines in the FT spectra is less than 0.002 cm^{-1} (0.2 m\AA at 3000 \AA ; 8 m\AA at $2 \text{ }\mu\text{m}$). Pressure- and current-dependent shifts are less than 0.001 cm^{-1} for transitions between low-lying levels, increasing to 0.006 cm^{-1} for transitions between the most highly excited levels. We report 28 new energy levels of Fe I and revised values of another 818 levels. We have identified 9501 lines as due to 9759 transitions in Fe I, and these are presented in the form of a new multiplet table and finding list. This compares with the ~ 5500 lines due to 467 energy levels in the multiplet tables of Moore (1950, 1959). The biggest increase is in the near-ultraviolet and near infrared, and many of the new lines are present in the solar spectrum. Experimental $\log(gf)$ values are included where they are available. A further 125 unidentified lines due to Fe I are given. The tables are also available in computer-readable form.

Subject headings: atomic data — line: identification

1. INTRODUCTION

Spectra of low-charge states of iron play a significant role in solar and stellar spectroscopy due to the high cosmic abundance of iron. The atomic structure of the iron-group elements is complex, and departures from any pure coupling scheme result in a high density of lines in all wavelength regions. The number of identified iron lines in the solar spectrum exceeds that of any other element, and the prediction that many unidentified solar lines in the near-ultraviolet and near-infrared are almost certainly due to Fe I (Johansson 1987) has been recently verified (Nave & Johansson 1993b). An updated analysis of the spectrum of neutral iron, Fe I, has been a long-standing request from astronomers, along with the needs for more and better laboratory data for many other elements, as emphasized at several recent meetings (for example, Smith & Wiese 1992; Grevesse & Noels 1994; and the contributions of Kurucz and Lambert in Leckrone & Sugar 1993). The development of laboratory light sources and the techniques of Fourier transform (FT) spectrometry and high-resolution grating spectrometry have made it possible to record the spectrum with an accuracy and completeness not previously achievable. This has enabled us to extend the term system considerably and to iden-

tify many new lines in astrophysical spectra (Nave & Johansson 1993a, b). It is now possible to present an analysis of the spectrum which fulfills many current demands of astronomy.

Despite their age, the Revised Multiplet Table of Moore (1959) and the Ultraviolet Multiplet Table (Moore 1950) (both of which we shall refer to as MT) remain among the most widely used sources of data for users requiring extensive line lists of atomic spectra (Edlén & Martin 1988). This popularity is undoubtedly due to the accuracy with which Moore prepared them, the care with which she selected data to be included, and the convenient format in which the data are presented. However, modern astronomical observations supersede old ones in signal-to-noise ratio, resolution, wavelength accuracy, and spectral wavelength coverage. The line-by-line analysis of solar and stellar spectra has been replaced by comparisons between synthetic and observed spectra. All this puts new demands and requirements on the atomic data needs, and extensions and revisions to the MT have become an urgent necessity. Extensions are particularly needed in the near-ultraviolet, where many new lines have been identified since the publication of the UV tables, and the near-infrared above $1.3 \text{ }\mu\text{m}$, which is not covered by the MT. Revisions of the MT are required in all wavelength regions, as the accuracy of many lines in the MT has been substantially improved in recent years. The requirements of astronomy now demand wavelengths to within 1 m\AA in the visible and ultraviolet, and 0.001 cm^{-1} in the infrared. The data in the MT do not fulfill these requirements—as a recent search for the antecedents of a weak Fe I line showed, some of the wavelengths quoted actually go

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back to measurements made over 100 years ago (Learner, Davies, & Thorne 1991).

In addition to the MT, Moore published three volumes of atomic energy levels (Moore 1971), which also became standard references for atomic spectra. These were updated for the iron-group elements by Sugar & Corliss (1985, hereafter AEL-SC). The table for Fe I in AEL-SC incorporates the revised levels of Crosswhite (1975) and Litzén (1976) and contains a list of references to earlier work. Since 1985, revisions to the energy levels and extensions to the term system have been made by Johansson (1987), Brown et al. (1988), O'Brian et al. (1991), Zhu & Knight (1992); further extensions based on the spectra presented in the current paper have been published by Johansson & Learner (1990), Nave & Johansson (1993a, b), Nave et al. (1994), and Johansson et al. (1994). Biémont et al. (1985) also compiled a list of Fe I lines in the infrared solar spectrum.

The most recent compilation of gf -values for the iron-group elements is by Fuhr, Martin, & Wiese (1988). The table for Fe I includes gf -values for ~ 1950 lines, some of which have an uncertainty of only a few percent. More recent measurements include those of O'Brian et al. (1991), Bard, Kock, & Kock (1991), Kock, Kroll, & Schnehage (1984), and Meylan et al. (1993). In total, ~ 2600 Fe I lines now have measured gf -values. The majority of these are between 3000 \AA and $1 \mu\text{m}$, where almost half of the observed Fe I lines now have measured gf -values. In the region below 3000 \AA this drops to only 20%, and there are very few lines above $1 \mu\text{m}$ with measured gf -values.

Many astrophysicists now use the calculations of semi-empirical gf -values by Kurucz (1989), which are based on experimental energy levels such as the ones presented in the present study. The calculations have the advantage that they include significantly more lines than it is possible to measure in the laboratory, many of which are important in analyses of Fraunhofer spectra of the Sun and cool stars. The disadvantage of these calculations is that their accuracy cannot be estimated and is often poor, especially for weak lines that may be the lines of most interest in studies of the iron abundance in the Sun.

In this paper we present the analysis of the laboratory spectrum of Fe I in the form of a new multiplet table. The analysis is based on both FT and grating measurements of iron-neon and iron-argon hollow cathode lamps in the region 1700 \AA to $5 \mu\text{m}$ ($58,800$ – 2000 cm^{-1}). The precision of the wavenumbers obtained from an FT spectrometer is up to an order of magnitude better than that obtainable with a grating spectrometer, but we have also included Fe I lines which were present in only the ultraviolet grating spectra, in which the number of Fe I lines is significantly higher (Nave & Johansson 1993a). We present revised values for 818 energy levels and values of 28 new levels. These give 9759 identifications of 9501 lines, which have been ordered into 2785 multiplets. Experimental gf -values are also given where they are available. A further 125 unidentified lines due to Fe I are presented.

2. EXPERIMENTAL DETAILS

The laboratory spectra used in this study were obtained using three different instruments: the f/55 IR-visible-UV FT spectrometer at the National Solar Observatory (NSO), Tuc-

son, Arizona, for the region 2000 cm^{-1} to $35,000 \text{ cm}^{-1}$ (5 – $0.29 \mu\text{m}$); the f/25 vacuum UV FT spectrometer at Imperial College, London, for FT spectra in the region $33,000 \text{ cm}^{-1}$ to $59,000 \text{ cm}^{-1}$ (3000 – 1700 \AA); and the 10.7 m grating spectrograph at the National Institute of Standards and Technology (NIST), Gaithersburg, Maryland, for high-dispersion grating spectra above $30,770 \text{ cm}^{-1}$ ($<3250 \text{ \AA}$).

The light source used for the FT investigations was a hollow cathode lamp, run in either neon or argon. In addition to Fe I spectra, this source also gives spectra of Fe II and the neutral and singly ionized spectra of the carrier gas used. The cathode was usually an uncooled open-ended cylinder of pure iron, 8 mm in bore and 35 mm long. The metal case of the lamp formed the anode. The running pressures were $\sim 5 \text{ mbar}$ of Ne or 4 mbar of Ar for the visible and IR observations, and 3 – 4 mbar of Ne for the UV observations. The currents ranged from 320 mA to 1.1 A . In general, Ne gave a better signal to noise ratio for Fe I except in the region $14,000$ – $17,500 \text{ cm}^{-1}$ (7100 – 5700 \AA), where the strong Ne lines raise the noise level in the spectrum. Argon-iron spectra were therefore used in this region and were also recorded in the region $17,500$ – $35,000 \text{ cm}^{-1}$ (2857 – 5714 \AA) to give an absolute wavelength calibration based on Ar II lines. One infrared spectrum was recorded with a water-cooled cathode as source and a higher current of 1.4 A . Survey spectra were taken out to 600 cm^{-1} ($16 \mu\text{m}$), but they showed hardly any Fe I lines because of the high noise level from the thermal infrared background.

The wavenumber, integrated intensity, width and damping of all lines in the FT spectra were obtained using Brault's DECOMP program (Brault & Abrams 1989), which fits a Voigt profile to each line. The wavenumber scale was calibrated from 26 Ar II lines in the visible (Learner & Thorne 1988), and the calibration was carried into the UV and infrared using wide-range spectra (Nave et al. 1991, 1992). Deuterium and tungsten lamps were used for intensity calibration.

The Doppler widths (half-width at half-maximum) varied from $\sim 0.012 \text{ cm}^{-1}$ at 5000 cm^{-1} (0.05 \AA at $2 \mu\text{m}$) to $\sim 0.12 \text{ cm}^{-1}$ at $50,000 \text{ cm}^{-1}$ (5 m\AA at 2000 \AA). This corresponds to a Doppler temperature of $\sim 2500 \text{ K}$; the source is, however, not in thermal equilibrium, and the intensity distribution is generally quite different from that of astrophysical spectra. Lines emitted from levels of high excitation are also Lorentz broadened, so the observed line widths are often higher than this. The uncertainty of the wavenumber of each line is the sum of statistical and systematic errors. The statistical error is equal to the half-width at half-maximum divided by the signal-to-noise ratio (Brault 1987). For lines with a signal-to-noise ratio of ~ 100 this varies from $\sim 0.0002 \text{ cm}^{-1}$ (0.8 m\AA at $2 \mu\text{m}$) in the infrared to 0.001 cm^{-1} (0.01 m\AA at 3000 \AA) in the ultraviolet. The weakest lines in the spectra have a signal-to-noise ratio of ~ 3 , and the accuracy is then of the order 0.005 cm^{-1} (0.02 \AA at $2 \mu\text{m}$) in the infrared and 0.05 cm^{-1} (5 m\AA at 3000 \AA) in the ultraviolet. The most important systematic errors are the calibration error for each spectrum, which is of the order 0.001 cm^{-1} , and possible pressure or current-dependent shifts. The latter have been estimated at less than 0.001 cm^{-1} for levels of low excitation, rising to $\sim 0.006 \text{ cm}^{-1}$ for the highest excitation levels. A full description of the procedure, with details of the FT spectra used in the present investigation, has been given elsewhere (Learner & Thorne 1988; Nave et al. 1991, 1992).

Grating spectra have been recorded in the region 30,770–58,820 cm^{-1} (3250–1700 Å) using iron-neon and iron-argon hollow cathode lamps. The iron-neon hollow cathode was run in continuous mode with DC currents of 0.6–0.8 A and a gas pressure of ~ 1.3 mbar. The iron-argon hollow cathode was run in pulsed mode with peak currents of ~ 100 A, pulse width of 70 μs and frequency 100 Hz, and pressure of ~ 0.3 –0.4 mbar. The spectra were calibrated from Ritz wavelengths obtained from interferometrically measured Fe II lines (G. Norlén, private communication), and the uncertainty in the grating wavelengths is ~ 3 mÅ (~ 50 mK at 2500 Å). The grating spectra are being used in an extended and comprehensive analysis of Fe II (Johansson & Baschek 1988).

3. IDENTIFICATION OF LINES FROM KNOWN LEVELS

The procedure we have followed to identify Fe I lines is to compare wavenumbers of observed lines with wavenumbers derived from measured energy levels. We will call the latter “Ritz wavenumbers.” The energy levels we have used in identifying the lines were from AEL-SC (Sugar & Corliss 1985), Brown et al. (1988), O’Brian et al. (1991), together with those we have located in our recent investigations of Fe I (Johansson & Learner 1991; Nave & Johansson 1993a; Nave et al. 1994; Johansson et al. 1994). To minimize the spurious coincidences of observed wavenumbers and Ritz wavenumbers, it is important to have a set of energy level values that is both accurate and appropriate to the sources used (O’Brian et al. 1991). We have therefore revised the energy levels from the observed transitions in the FT spectra, using a least-squares fitting program (Radziemski et al. 1972) in which each line was assigned a weight inversely proportional to the square of the wavenumber uncertainty.

The values of the revised energy levels are listed in Table 1. We have listed the terms in order of the energy of the lowest fine structure level of each term. With the exception of a few levels, which we have carefully checked, the values are within the estimated errors of those previously published. In addition, 28 new energy levels have been found that have not been published elsewhere, and these are marked with an asterisk beside the level value in column (4).

Many energy levels in Fe I cannot be adequately described in any particular coupling scheme. We have given LS designations to all the levels where no other coupling scheme is obvious in order to label them and to help identify which configurations are incompletely represented. *JK* designations have been assigned to levels due to the configurations $3d^6 4s(^6D)6d$, $4f$, $5g$, and $3d^7(^4F)4f$. Abbreviated term designations are given in column (2). These are extensions of the term designations used in the MT and follow the convention established in earlier papers (Brown et al. 1988; Nave & Johansson 1993a). The term designations and abbreviations are discussed in detail in § 4.1. Nine of the levels could not be assigned to a configuration and are represented only by their energy level values.

The primary criterion for identification of the lines was coincidence between the observed wavenumber and the Ritz wavenumber derived from the energy levels in Table 1, taking into account the uncertainty of the wavenumbers, the uncertainty of the levels, and possible blended lines. In many cases more than one identification is possible, particularly in the

ultraviolet where many of the lines were detectable only in the less accurate grating spectra. Further criteria were thus applied to verify the identifications. In the grating UV spectra, Fe I and Fe II lines could often be distinguished by their relative intensities in spectra obtained from pulsed and unpulsed hollow cathodes. The absorption data of Brown et al. (1988) were also helpful as they contain no Fe II lines. Comparison was also made with published linelists and atlases of the solar spectrum (Moore, Minnaert, & Houtgast 1966; Moore, Tousey, & Brown 1982, 1992; Pierce & Breckinridge 1973; Swenson et al. 1970; Livingstone & Wallace 1991; Geller 1992), where all Fe I lines are present but Fe II lines of high excitation are absent.

4. TERM STRUCTURE AND TRANSITIONS

The term structure of the iron-group elements is described in detail in Johansson & Cowley (1988) and specific details pertaining to Fe I are given in Brown et al. (1988), Johansson & Learner (1991), and Nave & Johansson (1993a). The majority of the Fe I levels belong to the two configuration systems $3d^6 4s nl$ or $3d^7 nl$. Terms at low-excitation energies belong to the subconfigurations $3d^6(^M L)4s 4l$ and $3d^7(^M L)4l$ and are often fairly well described in the LS coupling scheme. Higher excitation terms are usually of the form $3d^6 4s(^6D)nl$ or $3d^7(^4F)nl$ and are in intermediate or *JK* coupling. The strongest transitions occur within each system when the parent or grandparent term, $^M L$, in the subconfiguration is unchanged.

4.1. Notation of Terms

In the MT the spectroscopic terms were abbreviated, as it was not possible at that time to describe them by their full spectroscopic notations. Since that time the convention used for the abbreviations has become well established and is the one adopted in the AEL-SC. The convention labels the lowest even-parity LS term of multiplicity M and orbital angular momentum L as $a^M L$, the next lowest, $b^M L$, and so on (e.g., the lowest 3F term is labeled $a^3 F$, the next lowest $b^3 F$. . .). The lowest odd-parity term is labeled $z^M L^o$, the next lowest $y^M L^o$ and so on. We have kept to this convention for all the terms that are given in the MT, but it cannot in general be extended to higher terms. It is not consistent—for example the lowest 5D term is labeled $a^5 D$, but the next lowest is labeled $e^5 D$ —and it is a useful designation only in LS coupling, which does not apply to highly excited terms.

All of the known highly excited terms in Fe I with $n > 4$ are formed by adding a running electron to either the $3d^6 4s(^6D)$ term or the $3d^7(^4F)$ term in Fe II. These two terms are called the “parent terms.” Addition of one electron to each of these parents give the subconfigurations $3d^6 4s(^6D)nl$ and $3d^7(^4F)nl$, and the abbreviations we have adopted are intended to indicate the parent of the subconfiguration. Terms of the form $3d^6 4s(^6D)nl^M L$ are abbreviated to the form $s^6 Dnl^M L$ and terms of the form $3d^7(^4F)nl^M L$ to $^4 Fnl^M L$. Highly excited terms with $n = 4$ which were not labeled by Moore belong to other parents and grandparents and are of the form $3d^6(^M L')4s 4p(^3P)^M L$, $3d^6(^M L')4s 4p(^1P)^M L$, or $3d^7(^M L')4p^M L$. These have been given the abbreviations $L'sp 3^M L$, $L'sp 1^M L$, and $^M L' 4p^M L$, respectively.

Many highly excited configurations with $l \geq 3$ are best de-

TABLE 1
ENERGY LEVELS OF Fe I

Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)	Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)
$3d^6 4s^2$	$a^5 D$	4	.000		$3d^7 (a^2 D) 4s$	$a^3 D$	4	26627.607	.001
		3	415.933	.001			3	26224.967	.001
		2	704.007	.001			2	26623.733	.001
		1	888.132	.001			1	26406.463	.001
		0	978.074	.001			5	26874.548	.001
$3d^7 ({}^4F) 4s$	$a^5 F$	5	6928.268	.001	$3d^6 ({}^5D) 4s 4p ({}^3P)$	$z^5 F^o$	4	27166.818	.001
		4	7376.764	.001			3	27394.689	.001
		3	7728.059	.001			2	27559.581	.001
		2	7985.784	.001			1	27666.346	.001
		1	8154.713	.001			1	27543.001	.001
$3d^7 ({}^4F) 4s$	$a^3 F$	4	11976.238	.001	$3d^7 ({}^2P) 4s$	$a^1 P$	1	27543.001	.001
		3	12560.933	.001	$3d^7 (a^2 D) 4s$	$a^1 D$	2	28604.611	.001
		2	12968.553	.001	$3d^7 ({}^2H) 4s$	$a^1 H$	5	28819.952	.001
		3	17550.180	.001	$3d^6 ({}^5D) 4s 4p ({}^3P)$	$z^5 P^o$	3	29056.322	.001
		2	17726.987	.001	$3d^6 4s^2$	$a^1 I$	2	29469.022	.001
$3d^6 4s^2$	$a^3 P$	1	17927.381	.001			1	29732.734	.001
		2	18378.185	.001			6	29313.006	.001
		1	19552.477	.001			3	29371.810	.001
		0	20037.815	.002			2	29356.742	.001
$3d^6 ({}^5D) 4s 4p ({}^3P)$	$z^7 D^o$	5	19350.890	.001	$3d^6 ({}^5D) 4s 4p ({}^3P)$	$b^1 G$	1	29320.024	.001
		4	19562.438	.001			4	29798.934	.001
		3	19757.031	.001			4	31307.243	.001
		2	19912.494	.001			3	31805.069	.001
		1	20019.634	.001			2	32133.989	.001
$3d^6 4s^2$	$a^3 H$	6	19390.167	.001	$z^3 D^o$	$c^3 F$	3	31322.611	.001
		5	19621.005	.001			2	31686.349	.001
		4	19788.250	.001			1	31937.323	.001
		4	20641.109	.001			4	32873.630	.001
		3	20874.481	.001	$3d^8$	$y^5 D^o$	3	33412.715	.001
$3d^7 ({}^2G) 4s$	$a^3 G$	2	21038.986	.001			2	33765.304	.001
		5	21715.731	.001			4	33095.939	.001
		4	21999.129	.001			3	33507.121	.001
		3	22249.428	.001			2	33801.570	.001
$3d^6 ({}^5D) 4s 4p ({}^3P)$	$z^7 F^o$	6	22650.414	.001			1	34017.101	.001
		5	22845.867	.001	$3d^6 ({}^5D) 4s 4p ({}^3P)$	$y^5 F^o$	0	34121.601	.001
		4	22996.672	.001			5	33695.395	.001
		3	23110.937	.001			4	34039.514	.001
		2	23192.498	.001			3	34328.750	.001
$3d^7 ({}^4P) 4s$	$b^3 P$	1	23244.836	.001			2	34547.209	.001
		0	23270.382	.002			1	34692.146	.001
		2	22838.321	.001	$3d^6 ({}^5D) 4s 4p ({}^3P)$	$z^3 P^o$	2	33946.931	.001
		1	22946.814	.001			1	34362.871	.001
		0	23051.748	.001			0	34555.595	.001
$3d^6 ({}^5D) 4s 4p ({}^3P)$	$z^7 P^o$	4	23711.454	.001			2	34636.790	.001
		3	24180.860	.001	$3d^6 4s^2$	$b^1 D$	6	34843.955	.002
		2	24506.915	.001	$3d^7 ({}^4F) 4p$	$z^5 G^o$	5	34782.419	.001
		5	23783.617	.001	$3d^6 4s^2$	$z^3 G^o$	4	35257.322	.001
		4	24118.817	.001			3	35611.623	.001
$3d^7 ({}^2P) 4s$	$c^3 P$	3	24338.765	.001			2	35856.400	.001
		2	24335.764	.001			5	35379.206	.001
		1	24772.016	.001			4	35767.562	.001
		0	25091.597	.002			3	36079.370	.001
		4	24574.653	.001	$3d^7 ({}^2G) 4s$	$y^3 F^o$	4	36686.174	.001
$3d^6 ({}^5D) 4s 4p ({}^3P)$	$z^5 D^o$	4	25899.987	.001			3	37162.744	.001
		3	26140.177	.001			2	37521.158	.001
		2	26339.694	.001			3	36766.964	.001
		1	26479.379	.001			2	37157.564	.001
$3d^7 ({}^2H) 4s$	$b^3 H$	0	26550.477	.001			1	37409.552	.001
		6	26105.906	.001	$3d^6 ({}^5D) 4s 4p ({}^1P)$	$y^5 P^o$	2	36940.588	.001
		5	26351.038	.001			3	36975.586	.001
							4	37045.932	.001

TABLE 1—Continued

Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)	Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)
$3d^7(^4F)4p$	y^3D°	3	38175.352	.001	$3d^6(^3P)4s4p(^3P)$	x^3D°	0	45595.083	.001
		2	38678.036	.001			3	45220.678	.001
		1	38995.733	.001			2	45281.830	.001
$3d^6(^5D)4s4p(^1P)$	x^5D°	4	39625.801	.001	$3d^6(^3H)4s4p(^3P)$	y^3G°	1	45551.764	.001
		3	39969.850	.001			5	45294.843	.001
		2	40231.333	.001			4	45428.399	.001
		1	40404.515	.001			3	45562.971	.001
		0	40491.281	.001			6	45608.358	.002
$3d^5(^6S)4s^2 4p$	y^7P°	4	40421.935	.001	$3d^6(^3F)4s4p(^3P)$	x^5G°	5	45726.127	.001
		3	40207.088	.001			4	45833.220	.002
		2	40052.032	.001			3	45913.494	.003
		1	40052.032	.001			2	45964.954	.002
$3d^6(^5D)4s4p(^1P)$	x^5F°	5	40257.311	.001	$3d^6(^3H)4s4p(^3P)$	z^3I°	7	45978.005	.002
		4	40594.429	.001			6	46026.968	.002
		3	40842.151	.001			5	46135.817	.002
		2	41018.048	.001			4	46137.094	.001
$3d^8$	d^8^3P	1	41130.596	.001	$3d^7(^4P)4p$	w^5P°	3	46137.094	.001
		2	40871.409	.001			2	46313.534	.001
		1	41178.409	.001			1	46410.378	.002
$3d^6(^3P)4s4p(^3P)$	z^5S°	0	41234.502	.001	$3d^6(^3P)4s4p(^3P)$	z^3S°	1	46600.815	.001
		2	40894.987	.001			2	46727.071	.001
	x^5P°	3	42532.738	.001		y^3P°	1	46901.829	.001
		2	42859.775	.002			0	46672.537	.003
$3d^6(^3H)4s4p(^3P)$	y^5G°	1	43079.020	.002	$3d^7(^4P)4p$	u^5D°	4	46720.839	.001
		6	42784.349	.002			3	46744.990	.001
		5	42911.914	.001			2	46888.514	.001
		4	43022.982	.002			1	47177.231	.001
		3	43137.484	.001			0	47171.528	.002
$3d^64s(^6D)5s$	e^7D	2	43210.022	.002	$3d^6(^3F)4s4p(^3P)$	x^3F°	4	46889.139	.001
		5	42815.852	.001			3	47092.709	.001
		4	43163.323	.001			2	47197.007	.001
		3	43434.624	.001			6	46982.317	.002
		2	43633.530	.001			5	47008.368	.001
$3d^6(^3H)4s4p(^3P)$	z^5I°	1	43763.977	.001	$3d^7(^4F)5s$	e^5F	4	47106.481	.001
		6	42903.858	.002			5	47005.503	.001
		5	43460.118	.002			4	47377.952	.001
		4	43442.702	.003			3	47755.534	.001
	z^5H°	6	43321.093	.005	$3d^7(^4P)4p$	w^3D°	2	48036.670	.001
		5	42991.694	.002			1	48221.321	.001
		4	43108.914	.001			3	47017.185	.001
		3	43325.961	.002			2	47136.081	.001
$3d^6(^3P)4s4p(^3P)$	w^5D°	4	43499.502	.001	$3d^6(^3G)4s4p(^3P)$	w^5G°	1	47272.024	.001
		3	43922.665	.001			6	47363.373	.002
		2	44183.625	.001			5	47420.225	.001
		1	44411.157	.001			4	47590.045	.001
		0	44458.931	.001			3	47693.236	.001
$3d^6(^3F)4s4p(^3P)$	v^5D°	4	44022.522	.001	$3d^6(^3P)4s4p(^3P)$	$Psp3^1D^\circ$	2	47831.150	.001
		3	44166.203	.001			2	47419.684	.001
		2	44664.072	.001			4	47452.714	.001
		1	44760.743	.001			1	47555.607	.001
	w^5F°	0	44826.897	.002	$3d^6(^3G)4s4p(^3P)$	v^5F°	5	47606.111	.001
		5	44243.682	.002			4	47929.994	.001
		4	44415.071	.001			3	48122.925	.001
		3	44551.332	.002			2	48238.844	.001
		2	44285.451	.002			1	48350.603	.001
		1	44378.339	.002			5	47834.547	.001
$3d^7(^4P)4p$	y^5S°	2	44511.809	.001	$3d^6(^3F)4s4p(^3P)$	x^3G°	4	47812.115	.001
		4	44677.003	.001			3	47834.218	.002
$3d^64s(^6D)5s$	e^5D	3	45061.326	.001	$3d^6(^3G)4s4p(^3P)$	y^5H°	6	* 47855.140	.002
		2	45333.872	.001			5	48231.277	.001
		1	45509.149	.001			4	48361.879	.001

TABLE 1—Continued

Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)	Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)
$3d^7(^4F)5s$	e^3F	3	48475.683	.002		e^7P	4	50475.285	.001
		4	47960.937	.001			3	50611.258	.001
		3	48531.862	.001			2	50861.324	.001
$3d^54s^2(^6S)4p$	v^5P^o	2	48928.385	.001		e^5G	6	50522.941	.001
		3	47966.582	.001			5	50703.867	.001
		2	48163.443	.001			4	50979.576	.001
		1	48289.868	.001			3	51219.012	.001
$3d^6(^3H)4s4p(^3P)$	$Hsp3^1I^o$	6	48098.290	.001			2	51370.142	.001
$3d^7(^4P)4p$	x^3P^o	2	48304.640	.001	$3d^7(^2G)4p$	z^1F^o	3	50586.875	.002
		1	48516.135	.001	$3d^6(^3F)4s4p(^3P)$	x^1G^o	4	50613.980	.002
		0	48460.110	.002	$3d^64s(^6D)4d$	e^7G	7	50651.629	.002
$3d^7(^2G)4p$	z^1H^o	5	48382.600	.001			6	50967.828	.001
$3d^6(^3H)4s4p(^3P)$	y^1G^o	4	48702.532	.001			5	51228.550	.001
$3d^7(^2G)4p$	w^3F^o	4	49108.893	.001			4	51334.908	.001
		3	49242.883	.001			3	51460.515	.001
		2	49433.128	.002			2	51539.717	.001
		3	49135.020	.001			1	51566.799	.002
$3d^6(^3F)4s4p(^3P)$	v^3D^o	2	49242.618	.001	$3d^64s(^6D)5p$	u^5F^o	5	51016.657	.001
		1	49297.632	.002			4	51381.454	.001
		5	49352.338	.001			3	51619.073	.001
		4	49558.731	.001			2	51827.410	.001
$3d^64s(^6D)5p$	n^7D^o	3	49805.254	.001			1	51945.814	.001
		2	50008.519	.001	$3d^6(^3G)4s4p(^3P)$	x^3H^o	6	51023.159	.002
		1	50152.616	.001			5	51068.715	.002
		6	49434.160	.002			4	51409.121	.002
$3d^7(^2G)4p$	y^3H^o	5	49604.424	.002	$3d^64s(^6D)5p$	t^5D^o	4	51076.625	.001
		4	49726.987	.002			3	51361.388	.001
		5	49460.899	.001			2	51629.998	.001
		4	49627.881	.001			1	51827.851	.001
$3d^6(^3F)4s4p(^3P)$	$Fsp3^1F^o$	3	49850.587	.001			0	51941.537	.001
		3	49477.124	.001	$3d^64s(^6D)4d$	f^5F	5	51103.188	.001
		6	49758.139	.002			4	51461.667	.001
		5	50052.191	.001			3	51604.100	.001
$3d^64s(^6D)5p$	n^7F^o	4	50303.222	.001			2	51705.011	.001
		3	50433.022	.001			1	51754.494	.001
		2	50555.759	.001			2	51148.907	.001
		1	50627.433	.002	$3d^64s(^4D)5s$	e^5S	2	51294.217	.001
$3d^7(^2P)4p$	w^3P^o	0	50659.680	.002		e^3D	3	51294.217	.001
		2	50186.831	.001			2	51739.917	.001
		1	50043.210	.001			1	52039.889	.001
		0	49951.341	.002	$3d^7(^2D)4p$	v^3F^o	4	51304.601	.001
$3d^64s(^6D)5p$	n^7P^o	4	50185.740	.001			3	51365.308	.001
		3	50628.369	.001	$3d^64s(^4D)5s$	g^5D	2	51201.286	.002
		2	50901.169	.001			4	51350.489	.001
		6	50342.126	.001			3	51770.554	.001
$3d^64s(^6D)4d$	e^7F	2	50833.435	.001			2	52049.820	.001
		5	50833.435	.001			1	52214.342	.001
		4	51192.270	.001			0	52257.342	.001
		3	51148.845	.001	$3d^7(^2H)4p$	u^3G^o	5	51373.907	.001
$3d^64s(^6D)4d$	f^7D	2	51331.049	.001			4	51668.183	.002
		1	51207.995	.001			3	51825.770	.001
		5	50377.905	.001	$3d^64s(^6D)4d$	e^7S	3	51570.094	.001
		4	50807.994	.001	$3d^6(^3H)4s4p(^3P)$	$Hsp3^1H^o$	5	51630.175	.002
$3d^64s(^6D)5p$	f^5D	3	50861.813	.001	$3d^64s(^6D)5p$	u^5P^o	3	51692.007	.001
		2	50998.642	.001			2	51944.781	.001
		1	51048.104	.001			1	52110.598	.002
		4	50423.134	.001	$3d^7(^2P)4p$	y^1D^o	2	51708.304	.001
$3d^64s(^6D)4d$	f^5D	3	50534.394	.001	$3d^6(^3H)4s4p(^3P)$	x^1D^o	2	51762.073	.001
		2	50698.617	.001	$3d^64s(^6D)4d$	e^5P	3	51837.235	.001
		1	50880.099	.001			2	52067.466	.001
		0	50981.009	.002			1	52019.666	.001

TABLE 1—Continued

Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)	Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)		
$3d^7(^2P)4p$	u^3D^o	3	51969.098	.001	$3d^6(^3D)4s4p(^3P)$	$Dsp3^5F^o$	2	54530.649	.002		
		2	52296.916	.002			1	54603.136	.001		
		1	52512.453	.002			5	54013.748	.002		
$3d^7(a^2D)4p$	$^2P4p^1P^o$ t^3D^o	1	52180.817	.002			4	53881.802	.002		
		3	52213.227	.002			3	53733.590	.002		
		2	52682.916	.001			2	53723.075	.002		
$3d^7(^2H)4p$	w^3H^o	1	52857.800	.002	$3d^7(^4F)4d$	e^3G	1	53696.863	.004		
		6	52431.443	.002			5	53739.434	.001		
		5	52613.086	.002			4	54066.514	.001		
		4	52768.739	.003			3	54379.380	.001		
		7	52654.988	.003			3	53747.496	.001		
$3d^7(^4F)5p$	y^3I^o	6	52513.556	.002	f^3D	g^7D	2	54066.769	.001		
		5	52898.994	.003			1	54449.343	.001		
		5	52806.997	.002			3	53763.276	.002		
		4	54017.577	.002			5	53800.855	.001		
		3	54357.401	.001			4	54124.740	.001		
$3d^7(a^2D)4p$	v^3P^o	2	52916.291	.002	$3d^6(^6D)6s$	x^1F^o	3	54404.775	.002		
		1	53229.937	.002			2	54611.706	.002		
		4	52953.625	.001			1	54747.594	.001		
$3d^6(^3G)4s4p(^3P)$	$Gsp3^3F^o$	3	53357.511	.001	$3d^7(^2P)4p$	x^3S^o	1	53808.352	.002		
		2	53749.401	.002			3	53837.847	.001		
		5	53061.314	.001			2	54342.775	.002		
$3d^7(^4F)4d$	g^5F	4	53393.669	.001	$3d^7(^4F)5p$	$^4F5p^3D^o$	1	54807.246	.002		
		3	53830.971	.001			6	53840.616	.001		
		2	54257.498	.001			5	54266.712	.001		
		1	54386.182	.001			4	54555.414	.001		
		6	53069.353	.002			4	54301.336	.001		
$3d^7(^4F)5p$	$^4F5p^5G^o$	5	53586.506	.002	$3d^6(^3D)4s4p(^3P)$	$Dsp3^5D^o$	3	53891.522	.001		
		4	53852.110	.001			2	53913.016	.002		
		3	54134.651	.002			1	53975.74	.012		
		2	54257.675	.002			5	53983.289	.003		
		5	53084.785	.001			4	54237.411	.001		
$3d^7(^4F)5p$	$^4F5p^5F^o$	4	53388.633	.001	$3d^6(^3G)4s4p(^3P)$	t^3G^o	3	54600.346	.001		
		3	53661.075	.001			3	54004.714	.001		
		2	54042.523	.002			2	54112.226	.001		
		1	54224.416	.002			1	54271.058	.002		
		6	53093.525	.002			4	54479.898	.001		
$3d^7(^2H)4p$	$^2H4p^1I^o$	4	53155.141	.001	$3d^64s(^6D)6s$	s^6D6s^5D	3	54864.827	.001		
		3	53545.829	.001			2	55134.164	.001		
		2	53966.658	.001			1	55305.623	.002		
		1	54132.547	.001			0	55390.516	.003		
		3	53160.589	.001			4	54683.318	.001		
$3d^7(^4F)4d$	h^5D	2	53568.747	.001	$3d^7(^4F)4d$	f^3F	3	55124.934	.001		
		1	53925.196	.001			2	55378.807	.005		
		6	53169.142	.001			4	54810.852	.003		
		5	53281.685	.001			2	54879.679	.001		
		4	53768.975	.001			1	55376.086	.002		
$3d^7(^4F)4d$	f^5G	3	54161.135	.001	$3d^6(^3G)4s4p(^3P)$	w^1G^o	0	55726.52	.071		
		2	54375.673	.001			$3d^7(^4F)4d$	e^3P	5	55429.815	.002
		7	53275.179	.002					4	55905.532	.003
		6	53352.985	.001					3	55790.692	.002
		5	53874.253	.001					6	55489.738	.003
$3d^7(^4F)4d$	e^5H	4	54237.209	.002	$3d^6(^1G)4s4p(^3P)$	s^3G^o			5	55525.558	.002
		3	54490.995	.001			4	55446.004	.003		
		5	53313.434	.003			2	55754.229	.003		
		4	53328.831	.001			5	55907.174	.002		
		3	54289.030	.001			3	56097.832	.002		
$3d^6(^3G)4s4p(^3P)$	y^1H^o	2	54706.383	.002	$3d^6(^3G)4s4p(^3P)$	$Gsp3^1F^o$	5	56113.883	.001		
		4	53610.408	.001			4	56516.214	.002		
		3	53784.746	.002			3	57510.662	.004		
		3	53328.831	.001			5	55907.174	.002		
		2	54289.030	.001			3	56097.832	.002		
$3d^7(^4F)5p$	$^4F5p^3F^o$	2	54706.383	.002	$3d^7(^4F)6s$	$^4F6s^5F$	5	56113.883	.001		
		4	53610.408	.001			4	56516.214	.002		
		3	53784.746	.002			3	57510.662	.004		
		3	53328.831	.001			5	55907.174	.002		
		2	54289.030	.001			3	56097.832	.002		
$3d^6(^3G)4s4p(^3P)$	y^1H^o	2	54706.383	.002	$3d^7(^4F)6s$	$^4F6s^5F$	5	56113.883	.001		
		4	53610.408	.001			4	56516.214	.002		
		3	53784.746	.002			3	57510.662	.004		
		3	53328.831	.001			5	55907.174	.002		
		2	54289.030	.001			3	56097.832	.002		

TABLE 1—Continued

Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)	Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)
$3d^6 4s(^6D)6p$	$s^6 D6p\ ^7D^\circ$	2	57528.508	.002	$3d^6 4s(^6D)6p$	$s^6 D6p\ ^5D^\circ$	4	57125.246	.002
		1	57754.095	.003			3	56726.888	.001
		5	56120.327	.002			2	56952.209	.002
		4	56516.740	.003			1	57077.839	.002
		3	56555.062	.004			4	56732.331	.002
$3d^6 4s(^6D)5d$	$s^6 D5d\ ^5D$	2	56933.378	.005	$3d^6 4s(^6D_{9/2})4f$	$s^6 D_{4.5}4f\ [7.5]^\circ$	3	57168.527	.002
		1	57164.14	.005			2	57415.753	.001
		4	56207.548	.002			1	57401.140	.003
		3	56337.122	.002			0	57610.715	.002
		2	56479.459	.002			8	56778.787	.003
$3d^6 4s(^6D)6p$	$s^6 D6p\ ^7F^\circ$	1	56735.154	.003	$s^6 D_{4.5}4f\ [6.5]^\circ$	$s^6 D_{4.5}4f\ [5.5]^\circ$	7	56778.769	.003
		6	56260.978	.003			7	56754.128	.002
		5	56502.953	.003			6	56756.499	.002
		4	56756.700	.004			6	56748.897	.001
		3	57026.956	.004			5	56751.095	.001
$3d^6(^1I)4s4p(^3P)$	$u^3 H^\circ$	2	57140.420	.001	$s^6 D_{4.5}4f\ [4.5]^\circ$	$s^6 D_{4.5}4f\ [3.5]^\circ$	5	56754.722	.001
		1	57174.426	.002			4	56754.928	.001
		0	57121.600	.003			4	56764.763	.001
		6	56333.956	.003			3	56766.049	.001
		5	56382.658	.002	$3d^7(^4F)6s$	$^4F6s\ ^3F$	3	56777.258	.001
$3d^6 4s(^6D)5d$	$s^6 D5d\ ^5G$	4	56423.279	.002			2	56779.534	.001
		6	56341.856	.002			2	56789.695	.002
		5	56550.630	.001			1	56791.619	.002
		4	56673.141	.002			4	56808.263	.002
$s^6 D5d\ ^7F$	$s^6 D5d\ ^7F$	3	57055.612	.002	$3d^6 4s(^6D)6p$	$s^6 D6p\ ^5P^\circ$	3	57218.823	.002
		2	57233.839	.002			2	57790.905	.002
		6	56427.973	.002			3	56871.341	.003
		5	56842.729	.001			2	57437.190	.001
		4	57307.316	.002	$3d^7(^2H)4p$	$v^1 G^\circ$	1	57741.468	.003
$s^6 D5d\ ^7D$	$s^6 D5d\ ^7D$	3	57084.277	.002			4	56951.297	.003
		2	57029.610	.003			7	57027.509	.003
		1	57213.740	.002			6	57070.167	.003
		5	56432.017	.002			5	57104.213	.007
$s^6 D5d\ ^7P$	$s^6 D5d\ ^7P$	4	56452.014	.002	$3d^6 4s(^6D_{7/2})4f$	$s^6 D_{3.5}4f\ [6.5]^\circ$	7	57152.331	.002
		3	57070.367	.002			6	57153.167	.002
		2	56842.807	.002			6	57146.768	.001
		1	57004.355	.002			5	57147.780	.001
		4	56844.471	.002			5	57145.780	.001
$s^6 D5d\ ^7G$	$s^6 D5d\ ^7G$	3	56462.012	.003	$s^6 D_{3.5}4f\ [4.5]^\circ$	$s^6 D_{3.5}4f\ [3.5]^\circ$	4	57147.167	.001
		2	57291.234	.002			4	57149.109	.001
		7	56536.044	.003			3	57149.698	.001
		6	56874.912	.002			3	57149.841	.002
		5	57126.819	.002			2	57152.411	.001
$3d^6 4s(^6D)6p$	$s^6 D6p\ ^7P^\circ$	4	57155.853	.001	$s^6 D_{3.5}4f\ [1.5]^\circ$	$s^6 D_{3.5}4f\ [0.5]^\circ$	2	57154.265	.002
		3	57361.362	.002			1	57152.263	.002
		2	57450.660	.002			1	57154.992	.003
		1	57320.343	.003			0	57156.055	.002
		4	56541.592	.003	$3d^6(^3D)4s4p(^1P)$	$Dsp1\ ^3D^\circ$	3	57346.144	.002
$3d^6(^1G)4s4p(^3P)$	$u^3 F^\circ$	3	56888.419	.002			2	57074.911	.002
		2	57190.208	.002			3	57160.138	.002
		4	56592.699	.002			2	57403.130	.002
		3	56783.318	.002			6	57428.060	.002
$3d^6 4s(^6D)6p$	$s^6 D6p\ ^5F^\circ$	2	56858.649	.003	$3d^6 4s(^6D_{5/2})4f$	$s^6 D_{2.5}4f\ [5.5]^\circ$	5	57429.093	.001
		5	56707.280	.002			5	57437.924	.001
		4	57064.342	.003			4	57439.219	.001
		3	57343.824	.002			4	57437.797	.001
		2	57572.509	.002			3	57439.482	.001
$3d^6 4s(^6D)5d$	$s^6 D5d\ ^5S$	1	57546.477	.003	$s^6 D_{2.5}4f\ [2.5]^\circ$	$s^6 D_{2.5}4f\ [1.5]^\circ$	3	57432.844	.001
		2	56720.405	.002			2	57431.112	.002
		5	56761.874	.002			2	57427.572	.002

TABLE 1—Continued

Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)	Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)		
3d ⁶ 4s(⁶ D)5d 3d ⁶ (³ D)4s4p(³ P)	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [0.5] ^o <i>s</i> ⁶ D5d ⁷ S <i>t</i> ³ F ^o	1	57426.433	.002	3d ⁶ 4s(⁶ D)7s	<i>s</i> ⁶ D7s ⁵ D	4	58321.379	.003		
		1	57421.465	.003			3	58762.452	.002		
		3	57438.263	.002			2	59035.758	.004		
		4	57550.006	.003			1	59113.335	.004		
3d ⁶ (³ P)4s4p(¹ P) 3d ⁶ 4s(⁶ D _{3/2})4 <i>f</i>	<i>Psp</i> 1 ³ D ^o <i>s</i> ⁶ D _{1.5} 4 <i>f</i> [4.5] ^o <i>s</i> ⁶ D _{1.5} 4 <i>f</i> [3.5] ^o <i>s</i> ⁶ D _{1.5} 4 <i>f</i> [2.5] ^o <i>s</i> ⁶ D _{1.5} 4 <i>f</i> [1.5] ^o	3	57565.301	.002	3d ⁶ 4s(⁴ D)4d	<i>s</i> ⁴ D4d ³ G	5	58492.231	.003		
		2	57708.737	.003			4	58965.271	.003		
		3	57565.301	.002			5	* 58591.202	.002		
		5	57620.788	.002			4	* 58592.070	.002		
3d ⁶ 4s(⁴ D)4d	<i>i</i> ⁵ D <i>s</i> ⁴ D4d ⁵ F	4	57621.924	.002	3d ⁷ (⁴ F)5d	⁴ F5d ⁵ F	4	* 58661.974	.003		
		4	57641.215	.001			Unknown	58661 ^e	4	* 58661.974	.003
		3	57642.379	.001			3d ⁶ 4s(⁴ D)5p	<i>s</i> ⁴ D5p ⁵ P ^o	3	58674.455	.002
		3	57631.091	.001			2	59105.292	.002		
		2	57632.650	.001			1	59360.194	.003		
		2	57618.802	.002			3	58682.318	.003		
		1	57617.005	.003			2	58979.819	.002		
		5	57660.949	.003			3	58682.318	.003		
		4	58118.871	.003			1	58965.748	.004		
		3	58132.077	.003			8	58718.494	.003		
		2	58512.383	.004			7	58722.560	.003		
		1	58363.420	.005			7	58706.064	.002		
3d ⁶ 4s(⁶ D _{1/2})4 <i>f</i>	<i>s</i> ⁶ D _{0.5} 4 <i>f</i> [3.5] ^o <i>s</i> ⁶ D _{0.5} 4 <i>f</i> [2.5] ^o	4	57697.489	.002	⁴ F _{4.5} 4 <i>f</i> [7.5] ^o ⁴ F _{4.5} 4 <i>f</i> [6.5] ^o ⁴ F _{4.5} 4 <i>f</i> [5.5] ^o ⁴ F _{4.5} 4 <i>f</i> [4.5] ^o ⁴ F _{4.5} 4 <i>f</i> [3.5] ^o ⁴ F _{4.5} 4 <i>f</i> [2.5] ^o	6	58702.677	.002			
		3	57813.938	.002		6	58700.536	.002			
		2	57974.133	.003		5	58700.830	.002			
		1	58283.200	.003		5	58707.379	.003			
		4	57743.129	.001		4	58704.909	.002			
		3	57744.928	.001		4	58711.243	.003			
		3	57743.048	.002		3	58714.644	.002			
		2	57743.366	.002		3	58719.036	.002			
		4	57763.820	.002		2	58723.285	.002			
		3	58033.502	.001		7	* 58710.807	.05			
		2	58330.564	.002		7	58792.251	.002			
		1	58519.999	.009		6	58946.728	.003			
3d ⁶ 4s(⁶ D)7s	<i>s</i> ⁶ D7s ⁷ D	5	57897.047	.005	3d ⁷ (⁴ F)5d	⁴ F5d ³ G	5	* 58812.011	.05		
		4	58197.910	.003			4	* 59204.229	.05		
		3	58480.304	.003			3	* 58831.226	.003		
		2	58683.800	.003			2	58921.959	.003		
3d ⁶ 4s(⁴ D)5p	<i>s</i> ⁴ D5p ³ F ^o <i>s</i> ⁴ D5p ³ P ^o	3	58683.800	.003	3d ⁶ 4s(⁴ D)4d	<i>s</i> ⁴ D4d ⁵ S	4	* 58906.432	.002		
		1	58759.575	.003			Unknown	58906 ^e	1	* 59077.080	.003
		4	57917.250	.003			59077 ^e	7	59179.13	.01	
		3	59089.624	.003			6	59146.37	.01		
3d ⁶ 4s(⁴ D)4d	<i>g</i> ⁵ G	2	58961.992	.002	3d ⁶ 4s(⁶ D _{9/2})6d	<i>s</i> ⁶ D _{4.5} 6d [6.5]	6	59124.07	.01		
		2	57999.457	.009			5	59182.72	.01		
		1	59343.803	.002			5	59126.75	.01		
		6	58001.934	.002			4	59133.61	.01		
3d ⁶ (³ H)4s4p(¹ P)	<i>Hsp</i> 1 ³ G ^o	5	58271.458	.003	<i>s</i> ⁶ D _{4.5} 6d [3.5]	<i>s</i> ⁶ D _{4.5} 6d [3.5]	4	59235.48	.01		
		4	58520.159	.002			3	59251.39	.01		
		3	58710.043	.003			3	59217.20	.01		
		2	58824.841	.003			1	59154.658	.007		
3d ⁶ 4s(⁴ D)5p	<i>s</i> ⁴ D5p ³ D ^o <i>s</i> ⁴ D5p ⁵ F ^o	5	58018.557	.003	3d ⁷ (⁴ F _{7/2})4 <i>f</i>	⁴ F _{3.5} 4 <i>f</i> [6.5] ^o ⁴ F _{3.5} 4 <i>f</i> [5.5] ^o ⁴ F _{3.5} 4 <i>f</i> [4.5] ^o ⁴ F _{3.5} 4 <i>f</i> [3.5] ^o ⁴ F _{3.5} 4 <i>f</i> [2.5] ^o ⁴ F _{3.5} 4 <i>f</i> [1.5] ^o	7	59271.886	.004		
		4	58334.609	.003			6	59273.131	.004		
		3	58600.340	.003			6	59263.919	.003		
		3	58276.256	.003			5	59265.021	.002		
3d ⁶ 4s(⁴ D)4d	<i>s</i> ⁴ D4d ⁵ P	2	58132.245	.002	3d ⁶ 4s(⁴ D)4d	<i>s</i> ⁴ D4d ³ F	5	59264.880	.002		
		1	58394.860	.002			4	59262.295	.002		
		5	58147.003	.002			4	59265.740	.002		
		4	58481.297	.002			3	59265.473	.002		
3d ⁶ 4s(⁴ D)4d	<i>s</i> ⁴ D4d ⁵ P	3	58757.624	.002	3d ⁶ 4s(⁴ D)4d	<i>s</i> ⁴ D4d ³ F	3	59271.314	.003		
		2	58906.112	.002			2	59270.154	.002		
		1	58977.498	.002			2	59276.235	.003		
		3	58481.851	.003			4	59301.90	.006		
		2	58213.120	.002			3	59522.710	.003		

TABLE 1—Continued

Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)	Assigned Configuration	Term (abbr)	J	Level (cm ⁻¹)	Error (cm ⁻¹)
$3d^6 4s(^6D_{9/2})5f$	$s^6D_{4.5}5f$ [7.5] ^o	2	59815.554	.003	$3d^6 4s(^6D_{5/2})6d$	$s^6D_{2.5}6d$ [4.5]	1	59718.13	.01
		8 *	59290.421	.003			5	59718.72	.01
		7 *	59290.37	.003			4	59725.90	.01
$3d^6 4s(^6D_{7/2})5f$	$s^6D_{4.5}5f$ [6.5] ^o	7 *	59277.454	.003	$3d^6 4s(^6D_{3/2})6d$	$s^6D_{2.5}6d$ [2.5]	3	59886.70	.01
		6 *	59275.88	.003			3	59820.66	.01
		6 *	59274.558	.003			4	59878.64	.01
$3d^6 4s(^6D_{9/2})5g$	$s^6D_{3.5}5f$ [5.5] ^o	7 *	59669.0	.003	$3d^7(^4F_{3/2})4f$	$s^6D_{2.5}6d$ [3.5]	2	59843.56	.01
		6 *	59670.08	.003			2	59780.48	.01
		5 *	59663.96	.003			2	59766.92	.01
$3d^6 4s(^6D_{7/2})6d$	$s^6D_{4.5}5g$ [8.5]	9	59335.73	.01	$3d^6 4s(^6D_{5/2})5g$	$s^6D_{6.5}6d$ [0.5]	1	59729.17	.01
		8	59335.72	.01			5	59960.478	.002
		8	59331.269	.005			4	59960.952	.003
$3d^6 4s(^6D_{5/2})5g$	$s^6D_{4.5}5g$ [7.5]	7	59331.270	.004	$3d^6 4s(^6D_{3/2})6d$	$s^6D_{1.5}6d$ [3.5]	4	59947.019	.002
		7	59329.645	.004			3	59947.320	.003
		6	59329.642	.004			3	59952.529	.003
$3d^6 4s(^6D_{3/2})6d$	$s^6D_{4.5}5g$ [6.5]	6	59329.892	.004	$3d^6 4s(^6D_{5/2})5g$	$s^6D_{2.5}5g$ [6.5]	2	59947.762	.003
		5	59329.891	.003			7	59999.211	.007
		5	59329.891	.003			6	59999.206	.004
$3d^6 4s(^6D_{1/2})6d$	$s^6D_{4.5}5g$ [4.5]	4	59331.286	.004	$3d^6(^3F)4s4p(^1P)$	$Fsp1^3F^o$	4	60001.343	.004
		4	59331.287	.004			5	60001.337	.004
		4	59333.255	.004			5	60001.575	.004
$3d^6 4s(^6D_{5/2})5g$	$s^6D_{4.5}5g$ [3.5]	3	59333.257	.004	$3d^6 4s(^6D_{3/2})6d$	$s^6D_{2.5}5g$ [3.5]	4	60001.559	.007
		3	59335.316	.003			3	60000.71	.007
		2	59335.317	.005			3	60000.71	.008
$3d^6 4s(^6D_{3/2})6d$	$s^6D_{4.5}5g$ [2.5]	2	59337.081	.005	$3d^6 4s(^6D_{1/2})6d$	$s^6D_{0.5}6d$ [1.5]	1	60178.25	.01
		1	59337.078	.005			1	60178.25	.01
		0	59338.255	.007			1	60178.25	.01
$3d^6 4s(^6D_{1/2})6d$	$s^6D_{4.5}5g$ [0.5]	3 *	59390.68	.01	$3d^6 4s(^6D_{5/2})5g$	$s^6D_{1.5}5g$ [4.5]	5	60197.940	.006
		6	59541.12	.01			4	60197.937	.003
		5	59556.32	.01			4	60196.429	.007
$3d^6 4s(^6D_{3/2})6d$	$s^6D_{3.5}6d$ [4.5]	5	59463.51	.01	$3d^6 4s(^6D_{3/2})6d$	$s^6D_{1.5}5g$ [3.5]	3	60196.43	.01
		4	59532.84	.01			3	60192.14	.007
		4	59475.63	.01			2	60192.14	.01
$3d^6 4s(^6D_{1/2})6d$	$s^6D_{3.5}6d$ [3.5]	3	59520.30	.01	$3d^6 4s(^6D_{1/2})6d$	$s^6D_{0.5}6d$ [1.5]	2	60128.60	.01
		3	59538.59	.01			1	60178.25	.01
		2	59514.13	.01			1	60178.25	.01
$3d^6 4s(^6D_{3/2})6d$	$s^6D_{3.5}6d$ [2.5]	2	59569.37	.01	$3d^6 4s(^6D_{5/2})5g$	$s^6D_{1.5}5g$ [2.5]	2	60192.14	.01
		1	59590.85	.01			2	60128.60	.01
		1	59590.85	.01			1	60178.25	.01
$3d^6 4s(^6D_{1/2})6d$	$s^6D_{3.5}6d$ [1.5]	5	59500.624	.003	$3d^6 4s(^6D_{3/2})6d$	$s^6D_{0.5}6d$ [1.5]	1	60178.25	.01
		5 *	59523.88	.01			1	60178.25	.01
		4 *	59664.70	.01			1	60178.25	.01
$3d^6 4s(^6D_{5/2})5g$	$s^6D_{3.5}5g$ [7.5]	2 *	60533.109	.01	$3d^6 4s(^6D_{3/2})6d$	$s^6D_{1.5}5g$ [3.5]	4	60196.429	.007
		5	59682.169	.004			3	60196.43	.01
		5	59671.596	.003			3	60192.14	.007
$3d^6 4s(^6D_{3/2})6d$	$s^6D_{3.5}5g$ [6.5]	4	59673.109	.003	$3d^6 4s(^6D_{1/2})6d$	$s^6D_{0.5}6d$ [1.5]	2	60128.60	.01
		4	59671.463	.002			1	60178.25	.01
		3	59671.958	.005			1	60178.25	.01
$3d^6 4s(^6D_{1/2})6d$	$s^6D_{3.5}5g$ [5.5]	3	59679.231	.002	$3d^6 4s(^6D_{5/2})5g$	$s^6D_{1.5}5g$ [2.5]	2	60192.14	.01
		2	59680.302	.005			2	60128.60	.01
		2	59687.414	.002			1	60178.25	.01
$3d^6 4s(^6D_{5/2})5g$	$s^6D_{3.5}5g$ [4.5]	8	59717.941	.007	$3d^6 4s(^6D_{3/2})6d$	$s^6D_{0.5}6d$ [1.5]	1	60178.25	.01
		7	59717.94	.01			1	60178.25	.01
		7	59717.084	.005			1	60178.25	.01
$3d^6 4s(^6D_{3/2})6d$	$s^6D_{3.5}5g$ [3.5]	6	59717.079	.004	$3d^6 4s(^6D_{1/2})6d$	$s^6D_{0.5}6d$ [1.5]	1	60178.25	.01
		6	59716.793	.004			1	60178.25	.01
		5	59716.792	.003			1	60178.25	.01
$3d^6 4s(^6D_{1/2})6d$	$s^6D_{3.5}5g$ [2.5]	5	59716.936	.004	$3d^6 4s(^6D_{5/2})5g$	$s^6D_{1.5}5g$ [3.5]	4	60309.711	.006
		4	59716.944	.004			3	60309.717	.005
		4	59717.325	.004			6	60365.633	.004
$3d^6 4s(^6D_{5/2})5g$	$s^6D_{3.5}5g$ [1.5]	3	59717.317	.004	$3d^6(^3F)4s4p(^1P)$	$Fsp1^3D^o$	5	60549.112	.004
		3	59717.764	.004			4	60757.592	.003
		2	59717.759	.004			3	60806.666	.003
$3d^6 4s(^6D_{3/2})6d$	$s^6D_{3.5}5g$ [0.5]	2	59718.13	.01	$3d^6(^3F)4s4p(^1P)$	$Fsp1^3G^o$	6	62079.318	.004
		2	59718.13	.01			4	61724.825	.004
		2	59718.13	.01			5	62192.731	.01
$3d^6 4s(^6D_{1/2})6d$	$s^6D_{3.5}5g$ [0.5]	2	59718.13	.01	$3d^6(^3F)4s4p(^1P)$	$Fsp1^3H^o$	4	62377.66	.01
		2	59718.13	.01			6	63035.752	.005
		2	59718.13	.01			6	63035.752	.005

scribed in the JK coupling scheme rather than the LS coupling scheme. In Fe I this applies to the subconfigurations $3d^6 4s(^6D)6d, 4f, 5g$ and $3d^7(^4F)4f$. In JK coupling the levels split into groups, and each group has as a parent the same fine-structure level in Fe II (Johansson & Learner 1990). The J -value of this parent level (J_c) is coupled to the angular momentum l of the running electron to give a resultant K , which is in turn coupled to the spin of the running electron to give the J -value of the level. In Fe I, J_c and K are half-integral and J is, as usual, integral. The full notation is, for example, $3d^6 4s(^6D_{J_c})4f[K]_J$. The notation we use for the abbreviated term designation is $s^6 D_{J_c} 4f[K]$, with similar designations for other JK coupled subconfigurations. In the computer-readable file, J_c and K have been truncated to integers. For example, the two levels due to $3d^6 4s(^6D_{9/2})4f[\frac{11}{2}]$ are referred to as $s^6 D_{4,5} 4f[5.5]$ in the printed version of the table, and $s6D4 4f[5]$ in the computer-readable version.

4.2. Transitions and Selection Rules

As a result of the mixed coupling in Fe I the only selection rules that can reliably be applied are $\Delta J = 0, \pm 1$ ($J = 0 \nrightarrow J = 0$) and change in parity (we do not see any parity forbidden lines in our laboratory spectra). However, the multiplets containing the strongest lines fall in the visible and follow traditional LS rules—the transitions are between levels of the same multiplicity, with $\Delta L = 0, \pm 1$ (but not $L = 0 \rightarrow L = 0$). Among these, the strongest lines are the ones involving the levels with the highest J where the J -value changes in the same direction as the L -value—for example in multiplet $a^5 F - z^5 D$ (number 88 in Table 2 [located at the end of this paper], or MT multiplet 15) the strongest lines correspond to J changing by -1 (sometimes called the “main diagonal”), with the strongest line being $J = 5$ to $J = 4$. The next strongest are for $\Delta J = 0$ (sometimes called the “first satellites”), and the weakest for $\Delta J = +1$ (sometimes called the “second satellites”). These rules are not always apparent from our intensities in Table 2, especially for multiplets involving the lowest terms ($a^5 D$ and $a^5 F$) which may be affected by self-absorption.

However, many multiplets do not follow LS rules, even if the levels are of relatively low excitation. Transitions are seen both between levels with different multiplicities and with $\Delta L > 1$. The former are sometimes called “intercombination lines,” “spin-forbidden lines,” or “intersystem lines,” and their presence indicates the breakdown of the LS model. In complex spectra like Fe I they may be as common and strong as spin-allowed transitions. Multiplets of intercombination lines may not contain all of the theoretically predicted transitions between the two terms, and the intensities are often irregular as they depend on the degree of mixing with levels of other multiplicities. For example, in multiplet $a^3 H - z^3 G$ (464, MT 168) the strongest lines are 6–5, 5–4, and 5–5. The 5–6 line is not observed and the 6–6 line is relatively weak. This multiplet is caused by mixing between the $z^5 G^o$ term and the $z^3 G^o$ term, and the intensities are similar to those observed in multiplet $a^3 H - z^3 G^o$ (465, MT 169). The lines to $z^5 G^o_6$ are weak because there is no level with $J = 6$ in the $z^3 G^o$ term with which it can mix. Some multiplets are seen in which the multiplicity changes by 4. An example is the multiplet $a^1 G - w^5 G^o$ (963, MT 517), in which both the upper term and the lower term are

mixed. In many cases, and in particular for highly excited levels, it is difficult to identify exactly the way in which the levels are mixed, and a particular level may be described as a combination of several different LS components which all contribute more-or-less equally.

In highly excited levels, where the dominant LS component may contribute only 30%, the concepts of an LS term and a multiplet have in general no meaning. For the sake of consistency, we have arranged all the transitions into multiplets, assigning LS labels according to the largest LS component, but the majority of lines in the infrared are better arranged into “allowed supermultiplets” which consist of all the transitions between two subconfigurations built on the same parent term. These supermultiplets usually obey the rule $\Delta l = \pm 1$ (sometimes $\Delta l = 3$ transitions are observed), and one generally observes all the transitions in each supermultiplet. For example, the multiplets $n^7 D^o - s^6 D 5d^M L$ (2347–2354, 2356, and 2357) are due to $5p - 5d$ transitions between terms having the parent term $3d^6 4s^6 D$, and if most of the lines in multiplet $n^7 D^o - s^6 D 5d^5 D$ (2347) are seen then lines of the same or greater intensity in multiplets $n^7 D^o - s^6 D 5d^5 G$ (2348), $n^7 D^o - s^6 D 5d^7 F$ (2349), $n^7 D^o - s^6 D 5d^7 D$ (2350) and so on, should also be observed.

Highly excited levels due to $3d^6 4s(^6D)nl$ odd-parity subconfigurations combine with the $3d^7(^4F)4s$ subconfiguration as well as the $3d^6 4s^2$ configuration, and the $3d - nl$ transitions are seen in the same spectral region as the $4s - nl$ transitions because of the similar energy of the $3d$ and $4s$ electrons in the transition elements. These transitions can also be regarded as allowed supermultiplets, because a possible alternative notation for $3d^7(^4F)4s$ is $3d^6 4s(^6D)3d$. For example, multiplet $a^5 F - s^6 D 6p^5 F$ (165) is due to a $3d^6 4s(^6D)3d - 3d^6 4s(^6D)6p$ transition. The lines in multiplets of $3d - nl$ transitions often have irregular intensities due to the different coupling in the higher and lower subconfigurations.

In some cases, configuration interaction gives multiplets between terms with different parents—for example configuration interaction between $3d^6 4s(^6D)5d$ and $3d^7(^4F)6s$ gives rise to the multiplet $n^7 D^o - ^4 F 6s^3 F$ (2355), which is a transition between the $3d^6 4s(^6D)5p$ and $3d^7(^4F)6s$ subconfigurations. In rather rare cases, $\Delta l = 3$ transitions occur between terms of the same parent: the multiplet $a^3 H - s^6 D_{4,5} 4f$ (516) involves transitions of the form $4s^2 - 4s4f$, which probably occur because of configuration interaction between $3d^6 4s^2$ and $3d^7 4s$.

5. TABLE OF MULTIPLYTS

The new multiplet table for Fe I is given in Table 2. If a line is present in the FT spectra, the wavenumber and intensity is taken from these spectra; otherwise it is taken from the grating spectra. The criteria for ordering the multiplets are the same as in the MT. Each group of multiplets consists of multiplets with the same lower term, and the groups are ordered in increasing energy of the lower term ($a^5 D$, $a^5 F$, $a^3 F \dots$). Within each group, the multiplets are ordered in increasing energy of the upper term ($z^7 D^o$, $z^7 F^o$, $z^7 P^o \dots$). It should be noted, however, that some of the multiplets of Fe I listed in the MT are not ordered according to these criteria, as Moore only adopted the criteria part way through the typing of the Fe I table. This means that the order of multiplets in Table 2 is not necessarily

the same as in the MT. Within each multiplet the lines have been listed in wavelength order. This is partly so that the user can work systematically through a spectrum and multiplet and also because the irregular intensities observed in many multiplets rendered less meaningful the ordering scheme used in the MT—where the main diagonal, first satellites, and second satellites are listed in order of decreasing J .

A more important difference between Table 2 and the MT is that we present all the multiplets in one large table, which we consider to be more convenient for the user. This means that it is impossible to retain the old multiplet numbers of Moore, which in any case did not extend to the infrared, where many of our new multiplets are to be found. Our new numbers are given in column (1) of Table 2. The term designations are given in column (2), and underneath these designations are given the number of the multiplet in the MT, where one exists, with the usual prefix of “UV” for multiplet numbers taken from the UV multiplet table (Moore 1950). We have indicated designations that have changed since the MT with an asterisk after the number in the MT. Column (3) gives the two J -values for the transition.

The decision as to what constitutes a multiplet is particularly awkward where the levels are better described by the JK coupling scheme rather than the LS coupling scheme. We have decided to group all lines due to the same fine structure level of the parent, J_c , together. For example, in multiplet $z^7D^o-s^6D_{4,5,6d}$ (454) all upper levels have the same parent level, $3d^64s^6D_{9/2}$ in Fe II, but have different K -values. For this reason we have labeled every line in these multiplets with the abbreviated term designation, to avoid confusion between levels of the same J -value but different K .

The intensity of the line is given in column (4). The intensities of lines in the FT spectra are the logarithms of the integrated intensities and are given to two decimal places. The intensities of lines observed only in grating spectra are integers, which are on a different scale to the FT spectra and are visual estimates of the photographic blackening in the continuous hollow cathode spectra. Lines marked “d0” are faint and diffuse, and those marked “d0?” are hardly detectable from the background. Lines marked “b” are broad, and those marked with an asterisk are blended with other unresolved lines. Where a line is not present in the continuous hollow cathode spectrum, the intensity has been taken from the pulsed hollow cathode and is given in italics in the printed version of Table 2 and in brackets in the computer-readable version.

In the lower multiplets many lines are affected by self-absorption or self-reversal. Self-absorption widens the line and reduces its intensity, but the wavenumber remains unaffected (Nave et al. 1991). Intensities and experimentally measured wavenumbers are given for all of these lines, but in almost all cases accurate gf values have been measured and should be used instead of the intensities. Self-reversed lines have a pronounced dip in the center of the line profile, and neither intensities nor accurate wavenumbers can be measured. No intensities are given for self-reversed lines, and the wavenumbers are Ritz wavenumbers. All the FT intensities have been corrected for the response of the spectrometers, but it was not possible to maintain a completely consistent scale throughout the whole spectral region covered by Table 2 because spectra in different spectral regions were obtained under several different source

conditions, which affect the relative intensities of the lines. Nevertheless the information is still useful because it can help in identifying lines in other sources, and in many cases it is the only alternative to a calculated gf value, which can sometimes be wrong by an order of magnitude.

The vacuum wavelength given in column (5) is derived from the measured wavenumber in column (8). Wavelengths and wavenumbers of self-reversed and masked (i.e., obscured by a much stronger line) lines are Ritz wavelengths and wavenumbers. The superscript to the wavenumber is a measure of its uncertainty, taking into account both the statistical and systematic errors described in § 2. The errors in wavenumbers of lines graded “A” are estimated to be less than 0.005 cm^{-1} , lines graded “B” less than 0.01 cm^{-1} , lines graded “C” less than 0.02 cm^{-1} , and lines graded “D” greater than 0.02 cm^{-1} . All known blended lines and all lines measured only in grating spectra have been assigned the grade D. The wavelength uncertainty $\Delta\lambda$ in Å is obtained from the wavenumber uncertainty $\Delta\sigma$ in cm^{-1} by using the relation:

$$\Delta\lambda = \left| \frac{\Delta\sigma}{\sigma^2} 10^8 \right| = |\Delta\sigma \lambda^2 10^{-8}|, \quad (1)$$

and typical values are given in Table 3.

The air wavelengths in column 6 for all lines above 2000 Å have been derived from the wavenumbers using the Edlén dispersion formula (Edlén 1966):

$$\lambda_R(\text{air}) = \frac{10^8}{\sigma_R} \times \left(1 + 8342.13 \times 10^{-8} + \frac{15997}{3.89 \times 10^9 - \sigma_R^2} + \frac{2406030}{1.3 \times 10^{10} - \sigma_R^2} \right)^{-1}, \quad (2)$$

which agrees to within 1 mÅ with more recent infrared measurements by Peck & Reeder (1972). Column (7) gives the difference between the observed wavelength and the Ritz wavelength in mÅ . To obtain the Ritz wavelengths, the differences in column (7) should be subtracted from the wavelengths in column (5) or (6). Column (9) gives the difference between the observed wavenumber and the Ritz wavenumber, and the Ritz wavenumbers should be determined in a similar way. A large discrepancy between the measured wavelength of a line graded A and the Ritz wavelength is indicative of an unknown and unresolved blend. Lines which are known to be blended with other Fe I, Fe II, Ne, or Ar lines are marked in column (13) with the species of the blended line. Lines which are obscured by a much stronger line are marked with an “M” in column (13), together with the species of the stronger, masking line.

The wavenumbers of all lines are necessarily those emitted by the iron atom in a specific set of plasma conditions, and are not those of an isolated atom. A detailed discussion of possible wavenumber shifts is given in Learner & Thorne (1988). The majority of our lines with upper levels of low excitation ($<6 \text{ eV}$) have a very small Lorentzian component to the line profile and can thus be expected to be relatively free from wavelength shifts. Lines graded A emitted from upper levels of low excitation should be selected where the accuracy of the wavelength is of particular importance, and the best of these are listed in the

TABLE 3
GRADING BASED ON FOUR WAVENUMBER UNCERTAINTIES, $\Delta\sigma$, AND THE CORRESPONDING WAVELENGTH
UNCERTAINTIES, $\Delta\lambda$, AT FIVE DIFFERENT WAVELENGTHS λ

GRADING	$\Delta\sigma$ (cm^{-1})	$\Delta\lambda$ ($\text{m}\text{\AA}$)				
		$\lambda = 2000 \text{ \AA}$	$\lambda = 5000 \text{ \AA}$	$\lambda = 1 \text{ }\mu\text{m}$	$\lambda = 2 \text{ }\mu\text{m}$	$\lambda = 5 \text{ }\mu\text{m}$
A	<0.005	<0.2	<1.25	<5	<20	<125
B	<0.01	<0.4	<2.5	<10	<40	<250
C	<0.02	<0.8	<5.0	<20	<80	<500
D	>0.02	>0.8	>5.0	>20	>80	>500

three recently published tables of recommended wavelength standards (Learner & Thorne 1988; Nave et al. 1991; Nave et al. 1992). Lines originating from levels of high excitation are Lorentz broadened and may be subject to pressure shifts. A recent comparison of the $4f-5g$ transitions observed in our spectra with those observed in the Sun indicated that the solar wavenumbers were $\sim 0.006 \text{ cm}^{-1}$ less than the laboratory wavenumbers, which is probably due to pressure or current-dependent shifts in the hollow cathode (Johansson et al. 1994). Another possible source of wavenumber shifts is unresolved or partly resolved isotope structure. We have as yet seen no evidence for isotope structure in Fe I, although it is of importance in Fe II, Ni II and Ni I (Rosberg, Johansson, & Litzén 1992; Litzén, Brault, & Thorne 1993).

Columns (10) and (11) contain the excitation potentials of the lower and upper levels of the transition, respectively. These are given in eV in the printed version of Table 2, and in eV and cm^{-1} in the computer-readable version. Experimental gf -values have been taken from various sources in the literature and are given in column (12) (Fuhr, Martin, & Wiese 1990; O'Brian et al. 1991; Meylan et al. 1993; Johansson et al. 1994). We have not estimated the accuracy of these measurements, and the user is advised to consult the original references. In particular, we note that some measurements lead to a solar abundance of iron which is slightly greater than the currently accepted value (Holweger et al. 1991). Other recent measurements of gf -values or lifetimes in Fe I include Kock et al. (1984), Blackwell et al. (1986), Bard et al. (1991), and Engelke, Bard, & Kock (1993). We have not included calculated gf -values for the lines, partly because of their uncertain accuracy, but also because they are likely to be recalculated with the new levels included. Calculated gf -values for Fe I can be found in the tables of semi-empirical gf -values by Kurucz (1989) or Fawcett (1987). Although the absolute accuracy of these calculations is often rather poor, the relative accuracy of calculated gf -values of lines within a single multiplet can be quite good (Fawcett 1987; Blackwell et al. 1983). The calculations of the Opacity Project (Sawey & Berrington 1992) include multiplet oscillator strengths, which may be helpful in estimating gf -values for lines due to highly excited levels that have not been measured or calculated by other groups.

Table 4 (located at the end of this paper) is a finding list for all the lines in Table 2. For all lines above 2000 \AA we give an air wavelength, λ_{air} , a wavenumber, σ , and the number of the multiplet in Table 2, where the line can be found. We have only given vacuum wavelengths λ_{vac} below 2000 \AA , as in the air

region they can easily be obtained from the wavenumber of the line:

$$\lambda_{\text{vac}} (\text{\AA}) = 10^8 / \sigma (\text{cm}^{-1}) \quad (3)$$

Table 5 gives 125 of the strongest unidentified lines in our spectra with a signal-to-noise ratio greater than 100. These are all probably due to Fe I, as they are present in either the solar spectrum or the absorption spectra of Brown et al. (1988). Some of these lines may well be due to the unclassified levels in Brown et al. (1988), but we have been unable to confirm them. The rest are probably due to highly excited levels that we have been unable to find.

6. Fe I LINES NOT LISTED IN TABLE 2

The MT contains lines and multiplets that are not listed in Table 2. Many of these lines have not been observed in any laboratory spectra, but are lines predicted from energy levels for which the Ritz wavelength coincides with a feature in the solar spectrum. They are designated in the MT by the symbol “ \odot ” in the intensity column and the letter “P” in the reference column. As we do not see them in our spectra, we are unable to say whether all these lines are in fact due to Fe I. The Ritz wavelengths in the MT were based upon old energy-level values, and more accurate wavelengths for them can be determined from the energy levels listed in table 1, provided that the identifications are correct and are unchanged. The Ritz wavenumber, σ_R in cm^{-1} , is given by the difference between the upper and lower level values of the transition, and the Ritz vacuum wavelength in \AA can be calculated from equation (3). To obtain the Ritz air wavelength $\lambda_R(\text{air})$, the Edlén dispersion formula in equation (2) should be used (Edlén 1966).

Ritz wavenumbers and wavelengths for all Fe I lines are also listed in the calculations of semi-empirical gf -values by Kurucz (1989), and use of Kurucz's list has the advantage that calculated gf -values are also given, which would assist in judging whether a particular solar or stellar line is due to Fe I or not. It should be emphasized, however, that the wavelengths listed in Kurucz's calculations will only be correct for energy levels that have been determined experimentally. This means that reliable wavelengths of lines will only be found in the smaller line lists distributed by Kurucz. The larger line list also contains lines due to energy levels that have been calculated by atomic structure computer programs, and the wavelengths of these lines may be wrong by several angstroms or more, depending on the wavelength and accuracy of the calculations.

TABLE 5
UNIDENTIFIED LINES DUE TO Fe I

Int	λ_{air} /Å	σ /cm ⁻¹	Int	λ_{air} /Å	σ /cm ⁻¹	Int	λ_{air} /Å	σ /cm ⁻¹
3.80	41471.539	2410.6348	2.20	14180.472	7050.0237	2.35	9236.8292	10823.255
3.17	18368.536	5442.6056	2.24	13123.425	7617.8779	2.14	9214.2681	10849.756
2.20	18113.004	5519.3879	2.40	12958.493	7714.8359	3.30	9204.0968	10861.746
2.77	18110.729	5520.0813	2.80	12916.319	7740.0267	2.87	9095.9422	10990.896
2.59	17979.386	5560.4067	2.09	12913.209	7741.8904	2.44	9084.5968	11004.622
2.54	17938.877	5572.9628	2.76	12865.058	7770.8665	2.63	9060.0159	11034.479
2.15	17803.363	5615.3827	1.88	12698.215	7872.9688	2.50	9057.6126	11037.407
2.12	17793.231	5618.5802	2.65	12392.752	8067.0249	2.86	8953.9108	11165.238
2.27	17644.269	5666.0152	2.10	12135.628	8237.9454	3.12	8926.6580	11199.325
2.77	17643.663	5666.2096	3.28	11938.937	8373.6631	2.92	8292.4419	12055.860
2.39	17569.444	5690.1454	2.04	11930.499	8379.5856	3.03	8291.7651	12056.844
2.53	17545.321	5697.9688	3.22	11923.192	8384.7204	2.56	8145.4757	12273.379
2.52	17332.564	5767.9115	1.91	11923.096	8384.7883	2.97	7994.4808	12505.190
2.98	17032.015	5869.6924	2.92	11861.268	8428.4945	2.08	7714.6066	12958.857
3.39	16976.239	5888.9774	3.10	11807.010	8467.2271	3.06	7546.1774	13248.094
2.46	16948.140	5898.7411	2.26	11705.986	8540.3000	2.34	7515.1033	13302.873
2.29	16867.294	5927.0141	3.28	11682.646	8557.3622	3.62	6755.6055	14798.437
2.19	16833.125	5939.0450	2.94	11385.664	8780.5702	3.78	6528.5349	15313.141
2.78	16820.519	5943.4963	2.77	11367.107	8794.9043	4.18	6501.6722	15376.409
2.52	16416.814	6089.6522	3.08	11365.797	8795.9181	2.40	6042.0952	16545.968
2.83	16403.383	6094.6381	2.37	11351.328	8807.1299	2.29	6020.0136	16606.659
2.28	16254.730	6150.3749	2.94	11303.885	8844.0939	1.77	5841.1345	17115.217
2.27	16016.678	6241.7862	2.03	11295.792	8850.4305	1.75	5756.8145	17365.901
2.07	15945.262	6269.7423	2.26	11293.941	8851.8813	1.88	5714.1535	17495.551
2.67	15904.414	6285.8449	2.32	11138.431	8975.4664	2.56	5693.6425	17558.576
2.07	15685.762	6373.4664	2.36	11032.613	9061.5534	3.72	5035.7002	19852.675
2.45	15506.297	6447.2311	2.15	10971.225	9112.2564	3.04	4927.8682	20287.087
2.64	15499.402	6450.0990	3.32	10452.751	9564.2382	3.24	4552.5416	21959.595
2.35	15459.314	6466.8251	2.46	10075.639	9922.2085	3.21	4529.6761	22070.444
2.51	15381.969	6499.3420	2.83	10071.820	9925.9709	3.47	4172.0394	23962.338
2.12	15376.929	6501.4725	3.49	9997.5987	9999.6604	4.41	4103.8328	24360.589
2.48	15357.284	6509.7890	2.29	9981.3252	10015.963	3.94	3587.7518	27864.655
3.03	15348.303	6513.5980	2.84	9908.6895	10089.385	4.01	3345.8301	29879.358
1.91	15289.469	6538.6626	2.89	9903.2800	10094.896	2.60	2578.2104	38774.983
2.14	15201.567	6576.4717	2.06	9898.0324	10100.248	2.84	2468.2960	40501.533
2.60	15178.255	6586.5725	2.43	9882.2720	10116.356	2.61	2410.0973	41479.485
2.09	15119.028	6612.3748	2.61	9879.6663	10119.024	2.91	2374.6531	42098.561
2.61	15095.852	6622.5264	3.01	9872.3366	10126.537	2.90	2373.8052	42113.597
2.48	14938.141	6692.4443	2.32	9778.3867	10223.832	2.81	2370.7738	42167.443
2.28	14824.802	6743.6095	2.55	9746.1376	10257.661	2.69	2365.3205	42264.652
2.08	14545.720	6872.9958	2.15	9613.4048	10399.289	2.80	2152.4802	46443.426
2.68	14353.427	6965.0729	3.18	9430.0982	10601.434			

The larger line list should be used only when the details of the spectrum are unimportant (e.g., for opacity and radiation transport calculations), and *it cannot be used for high-resolution spectroscopy*.

Two other publications also contain lists of Fe I lines that are not present in Table 2. Brown et al. (1988) have analyzed the absorption spectrum of Fe I in the range 1550 Å to 3215 Å. Roughly 800 of the 3000 lines they observed are below 1700 Å and fall outside the region of Table 2. Between 1700 Å and 3215 Å they also observed many lines which are not present in our spectra. These are due to highly excited odd-parity levels which are not well populated in a hollow cathode, but combine strongly with the ground term and consequently give strong lines in an absorption spectrum. Brown et al. (1988) list ~100 of these highly excited levels. In the infrared, Schoenfeld, Chang, & Geller (1994) have identified two supermultiplets in the region of 3900 cm⁻¹ (2.56 μm) and 1350 cm⁻¹ (7.41 μm),

due to 3d⁶4s(⁶D)4f–6g and 3d⁶4s(⁶D)5g–6h, respectively, which have been observed in the solar spectrum. They also identify several features at longer wavelengths which are due to higher Rydberg transitions. All but the 4f–6g supermultiplet are outside the range of our emission spectra, and this supermultiplet is not present due to the high-excitation energy of the 6g levels.

7. SUMMARY

The total number of energy levels in Table 1 is 846, of which 28 are new. In comparison, the total number of energy levels from which the lines in the MT are derived is 467. Many of the new energy levels are of high excitation and are likely to be particularly useful in the interpretation of astrophysical spectra. The total number of lines in Table 2 is 9501, which are due to 9759 transitions arranged into 2785 multiplets. This compares with the ~5500 lines in the MT, of which ~1650 are

Ritz wavelengths of lines present in the solar spectrum, but not observed in laboratory spectra. The biggest increase is in the ultraviolet below 3000 Å, where the number of lines has increased from ~750 to ~2000, and in the infrared above 1 μm, where none of the ~3000 lines in Table 2 were given in the MT. The strongest lines have an uncertainty of less than 0.002 cm⁻¹ (0.2 mÅ at 3000 Å and 8 mÅ at 2 μm), which is up to an order of magnitude better than wavelength standards derived from previous data (Nave et al. 1991). Almost all of the lines are present in the solar spectrum and in many cases correspond to strong lines.

Table 5 gives a good indication of the current state of the analysis of Fe I. Almost all of the strongest lines in the visible have been identified. In spite of the many new identifications in the infrared, the largest proportion of unidentified lines fall between 1 and 2 μm. In the near UV, both our FT and grating spectra contain many unidentified lines, many of which are also strong unidentified lines in the solar spectrum. At present, no laboratory spectra of sufficient quality beyond 5.4 μm have been recorded, and it is not possible for us to estimate the contribution of Fe I to stellar spectra in this region. Table 2 also shows that relatively few lines in the infrared beyond 1 μm and few lines in the ultraviolet below 3000 Å have measured *g*-values. With the current interest in both ultraviolet and infra-

red astronomy they will almost certainly be required for stellar and solar spectroscopy.

Many users will prefer to have the new multiplet table in computer-readable form. For the time being, ascii versions of Tables 1 and 2 are available by anonymous FTP from ferrum.fysik.lu.se (130.235.92.170) at Lund University, in the directory pub/iron. The ascii version of Table 2 is also available sorted in wavelength order.

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TABLE 2
NEW MULTIPLY TABLE FOR Fe I

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	$\sigma-R^4$ (mÅ)	σ^5 (cm ⁻¹)	$\sigma-R^6$ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1	$a^5D-z^7D^o$ (1)	1-2	3.52	5256.4181	5254.9554	0.0	19024.362 ^A	0	0.110	2.469	-4.76 ^b	
		0-1	3.19	5251.6703	5250.2089	-0.3	19041.561 ^A	1	0.121	2.482	-4.94 ^b	
		2-3	3.20	5248.5110	5247.0504	0.0	19053.023 ^A	0	0.087	2.449	-4.95 ^b	
		1-1	3.35	5226.9809	5225.5261	-0.3	19131.503 ^A	1	0.110	2.482	-4.79 ^b	
		2-2	3.82	5206.0318	5204.5826	-0.5	19208.488 ^A	2	0.087	2.469	-4.33 ^b	
		3-3	4.35	5170.3378	5168.8981	0.3	19341.096 ^A	-1	0.052	2.449	-4.00 ^b	
		4-5	4.19	5167.7212	5166.2822	0.0	19350.889 ^A	0	0.000	2.399	-4.20 ^b	
		3-2	2.28	5129.1084	5127.6796	-1.6	19496.566 ^B	6	0.052	2.469	-6.13 ^b	
		4-4	4.61	5111.8373	5110.4131	0.0	19562.438 ^A	0	0.000	2.425	-3.76 ^b	
		4-3	2.97	5061.4898	5060.0790	0.3	19757.029 ^A	-1	0.000	2.449	-5.46 ^b	
2	$a^5D-z^7F^o$ (2)	0-1	4.11	4490.9987	4489.7391	0.0	22266.762 ^A	0	0.121	2.882	-3.97 ^b	
		1-2	4.57	4483.4275	4482.1699	0.2	22304.364 ^A	-1	0.110	2.875	-3.50 ^b	
		1-1	2.12	4472.9321	4471.6772	0.6	22356.700 ^C	-3	0.110	2.882	-6.00 ^b	
		2-3	4.87	4462.9050	4461.6528	-0.2	22406.930 ^A	1	0.087	2.865	-3.21 ^b	
		2-2	2.63	4446.7194	4445.4715	0.2	22488.489 ^A	-1	0.087	2.875	-5.44 ^b	
		2-1	3.69	4436.3941	4435.1489	-0.2	22540.829 ^A	1	0.087	2.882	-4.38 ^b	
		3-4	5.07	4428.5530	4427.3099	0.0	22580.739 ^A	0	0.052	2.851	-2.92 ^a	
		3-3	3.03	4406.2563	4405.0190	0.0	22695.003 ^A	0	0.052	2.865	-5.22 ^a	
		3-2	3.51	4390.4781	4389.2449	0.4	22776.563 ^D	-2	0.052	2.875	-4.58 ^b	II
		4-5	5.14	4377.1597	4375.9301	0.2	22845.865 ^A	-1	0.000	2.832	-3.03 ^b	
		4-4	2.60	4348.4557	4347.2336	0.2	22996.670 ^B	-1	0.000	2.851	-5.50 ^b	
		4-3	...	4326.978	4325.762	...	23110.817 ^D	...	0.000	2.865	...	MI
		3-4	3.99	4292.6710	4291.4637	0.4	23295.519 ^A	-2	0.052	2.940	-4.08 ^a	
3	$a^5D-z^7P^o$ (3)	2-3	3.51	4259.5145	4258.3158	-0.2	23476.854 ^A	1	0.087	2.998	-4.32 ^b	
		1-2	3.08	4233.9182	4232.7263	-0.2	23618.784 ^A	1	0.110	3.038	-4.93 ^b	
		4-4	4.73	4217.3714	4216.1838	0.2	23711.452 ^A	-1	0.000	2.940	-3.36 ^b	
		3-3	4.06	4207.8818	4206.6967	0.0	23764.926 ^A	0	0.052	2.998	-3.88 ^a	
		2-2	3.12	4201.1668	4199.9835	-0.7	23802.911 ^A	4	0.087	3.038	...	
		3-2	2.42	4150.9312	4149.7610	0.2	24090.980 ^B	-1	0.052	3.038	...	
		4-3	3.07	4135.5024	4134.3363	0.2	24180.859 ^A	-1	0.000	2.998	-4.72 ^a	
		2-3	6.06	3931.4095	3930.2967	0.0	25436.170 ^A	0	0.087	3.241	-1.49 ^a	
		1-2	6.02	3929.0321	3927.9199	0.0	25451.561 ^D	0	0.110	3.266	-1.52 ^a	I
4	$a^5D-z^5D^o$ (4)	3-4	6.00	3924.0226	3922.9118	0.2	25484.053 ^A	-1	0.052	3.211	-1.65 ^b	
		0-1	5.81	3921.3683	3920.2581	0.2	25501.303 ^A	-1	0.121	3.283	-1.75 ^b	
		1-1	5.37	3907.5864	3906.4798	0.2	25591.245 ^A	-1	0.110	3.283	-2.24 ^b	
		2-2	6.03	3900.8122	3899.7074	0.0	25635.687 ^A	0	0.087	3.266	-1.53 ^b	
		1-0	5.87	3896.7602	3895.6564	0.0	25662.344 ^A	0	0.110	3.292	-1.67 ^b	
		3-3	5.74	3887.3836	3886.2823	0.2	25724.243 ^A	-1	0.052	3.241	-1.08 ^b	
		2-1	6.11	3879.6726	3878.5733	0.2	25775.371 ^A	-1	0.087	3.283	-1.38 ^a	
		4-4	...	3861.0058	3859.9114	...	25899.987 ^A	...	0.000	3.211	-0.71 ^b	R
		3-2	6.04	3857.4651	3856.3716	0.1	25923.760 ^A	-1	0.052	3.266	-1.29 ^b	
		4-3	6.00	3825.5289	3824.4437	0.0	26140.176 ^A	0	0.000	3.241	-1.36 ^b	
5	$a^5D-z^5F^o$ (5)	1-2	6.28	3749.3276	3748.2622	0.0	26671.449 ^A	0	0.110	3.417	-1.02 ^b	
		0-1	6.04	3746.9643	3745.8995	0.0	26688.271 ^A	0	0.121	3.430	-1.34 ^b	
		2-3	6.40	3746.6260	3745.5613	0.0	26690.681 ^A	0	0.087	3.396	-0.77 ^b	
		3-4	...	3738.1941	3737.1315	...	26750.885 ^A	...	0.052	3.368	-0.57 ^b	R
		1-1	6.00	3734.3791	3733.3176	0.0	26778.213 ^A	0	0.110	3.430	-1.39 ^a	
		2-2	6.11	3723.6218	3722.5630	-0.1	26855.574 ^A	1	0.087	3.417	-1.29 ^b	
		4-5	...	3720.9928	3719.9347	...	26874.548 ^A	...	0.000	3.332	-0.42 ^a	R
		2-1	4.91	3708.8770	3707.8221	0.0	26962.339 ^A	0	0.087	3.430	-2.41 ^a	
		3-3	6.11	3706.6204	3705.5660	0.1	26978.754 ^A	-1	0.052	3.396	-1.33 ^b	
		3-2	4.79	3684.1033	3683.0548	0.0	27143.647 ^A	0	0.052	3.417	-2.57 ^a	
		4-4	5.96	3680.9611	3679.9134	0.0	27166.818 ^A	0	0.000	3.368	-1.60 ^b	
		4-3	4.22	3650.3427	3649.3029	0.1	27394.688 ^A	-1	0.000	3.396	-3.20 ^a	
6	$a^5D-z^5P^o$ (6)	2-3	5.53	3527.0488	3526.0408	0.0	28352.315 ^A	0	0.087	3.602	-1.83 ^a	
		1-2	5.68	3498.8414	3497.8406	-0.1	28580.890 ^A	1	0.110	3.654	-1.55 ^a	
		3-3	6.12	3491.5729	3490.5740	0.1	28640.387 ^A	-1	0.052	3.602	-1.11 ^a	
		0-1	5.69	3477.6972	3476.7018	0.0	28754.660 ^A	0	0.121	3.686	-1.51 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
7	$a^5D-z^3F^o$ (7)	2-2	6.08	3476.4453	3475.4502	-0.1	28765.015 ^A	1	0.087	3.654	-1.05 ^a	
		1-1	5.94	3466.8532	3465.8606	0.0	28844.602 ^A	0	0.110	3.686	-1.19 ^a	
		2-1	5.79	3444.8634	3443.8765	-0.1	29028.727 ^A	1	0.087	3.686	-1.37 ^a	
		3-2	6.11	3441.9749	3440.9887	0.0	29053.088 ^A	0	0.052	3.654	-0.96 ^a	
		4-3	6.13	3441.5921	3440.6059	0.1	29056.320 ^A	-1	0.000	3.602	-0.67 ^a	
		3-4	4.67	3237.1563	3236.2223	0.0	30891.310 ^A	0	0.052	3.881	-2.51 ^a	
		2-3	4.52	3215.3243	3214.3958	0.0	31101.062 ^A	0	0.087	3.943	-2.62 ^a	
		1-2	4.07	3200.4243	3199.4996	0.0	31245.857 ^A	0	0.110	3.984	-3.03 ^a	
		4-4	4.94	3194.1490	3193.2259	-0.1	31307.243 ^A	1	0.000	3.881	-2.22 ^a	
		3-3	4.53	3185.8157	3184.8947	0.1	31389.135 ^A	-1	0.052	3.943	-2.60 ^a	
		2-2	4.07	3181.6754	3180.7554	0.0	31429.982 ^A	0	0.087	3.984	-3.03 ^a	
		3-2	3.07	3152.7782	3151.8656	-0.2	31718.057 ^B	2	0.052	3.984	-3.99 ^a	
		4-3	3.25	3144.1531	3143.2426	0.2	31805.067 ^B	-2	0.000	3.943	-3.88 ^a	
		2-3	4.22	3265.9882	3265.0469	0.0	30618.604 ^A	0	0.087	3.883	-3.00 ^a	
8	$a^5D-z^3D^o$ (8)	1-2	4.29	3246.9413	3246.0048	0.1	30798.216 ^A	-1	0.110	3.928	-2.88 ^a	
		3-3	4.32	3235.5468	3234.6132	0.1	30906.677 ^A	-1	0.052	3.883	-2.90 ^a	
		0-1	4.00	3230.0525	3229.1203	-0.1	30959.249 ^A	1	0.121	3.960	-3.11 ^a	
		2-2	2.99	3227.6462	3226.7146	1.1	30982.330 ^B	-11	0.087	3.928	...	
		1-1	3.13	3220.6960	3219.7662	0.2	31049.189 ^B	-2	0.110	3.960	-4.08 ^a	
		2-1	3.49	3201.7095	3200.7844	0.0	31233.315 ^A	0	0.087	3.960	-3.57 ^a	
		3-2	4.31	3197.9109	3196.9868	0.1	31270.415 ^A	-1	0.052	3.928	-2.83 ^a	
		4-3	4.60	3192.5820	3191.6592	0.1	31322.610 ^A	-1	0.000	3.883	-2.60 ^a	
		3-4	5.31	3059.9751	3059.0858	0.2	32680.004 ^A	-2	0.052	4.103	-0.69 ^a	
		2-3	...	3048.4911	3047.6046	...	32803.114 ^A	...	0.087	4.154	-0.56 ^b	R
		1-2	4.99	3038.2727	3037.3887	-0.1	32913.438 ^A	1	0.110	4.191	-0.70 ^a	
		0-1	5.08	3026.7235	3025.8424	0.0	33039.027 ^A	0	0.121	4.217	-0.84 ^b	
		3-3	...	3021.9526	3021.0727	...	33091.188 ^A	...	0.052	4.154	-0.36 ^b	R
		4-4	...	3021.5187	3020.6390	...	33095.939 ^A	...	0.000	4.103	-0.03 ^a	R
		2-2	5.03	3021.3704	3020.4907	-0.1	33097.564 ^A	1	0.087	4.191	-0.88 ^a	
9	$a^5D-y^5D^o$ (9)	1-1	4.47	3018.5063	3017.6272	-0.1	33128.969 ^A	1	0.110	4.217	-1.55 ^b	
		1-0	4.93	3009.0149	3008.1382	0.1	33233.468 ^A	-1	0.110	4.230	-0.84 ^b	
		2-1	4.91	3001.8226	3000.9478	0.0	33313.094 ^A	0	0.087	4.217	-0.59 ^b	
		3-2	...	2995.3000	2994.4268	...	33385.637 ^A	...	0.052	4.191	-0.53 ^a	R
		4-3	...	2984.4402	2983.5697	...	33507.121 ^A	...	0.000	4.154	-0.58 ^b	R
		3-4	5.00	2974.1034	2973.2354	0.1	33623.579 ^A	-1	0.052	4.220	-0.66 ^b	
		2-3	4.95	2974.0003	2973.1324	-0.2	33624.744 ^A	2	0.087	4.256	-0.90 ^b	
		1-2	4.75	2970.9666	2970.0994	-0.3	33659.079 ^A	3	0.110	4.283	-1.13 ^a	
		4-5	...	2967.7646	2966.8982	...	33695.395 ^A	...	0.000	4.178	-0.40 ^b	R
		0-1	4.55	2966.1204	2965.2544	-0.1	33714.073 ^D	1	0.121	4.301	-1.34 ^b	I
		1-1	4.67	2958.2286	2957.3645	-0.1	33804.014 ^A	1	0.110	4.301	-1.16 ^b	
		2-2	4.84	2954.8032	2953.9400	-0.1	33843.202 ^A	1	0.087	4.283	-0.91 ^b	
		3-3	4.92	2948.7376	2947.8760	0.0	33912.817 ^A	0	0.052	4.256	-0.78 ^a	
		2-1	4.18	2942.2028	2941.3427	-0.1	33988.140 ^A	1	0.087	4.301	-1.70 ^a	
		4-4	5.02	2937.7624	2936.9034	0.1	34039.513 ^A	-1	0.000	4.220	-0.79 ^a	
10	$a^5D-y^5F^o$ (UV1)	3-2	4.22	2929.8641	2929.0071	0.0	34131.276 ^A	0	0.052	4.283	-1.48 ^a	
		4-3	4.11	2913.0101	2912.1573	-0.1	34328.751 ^A	1	0.000	4.256	-1.63 ^a	
		1-2	5.09	3024.9133	3024.0327	-0.1	33058.799 ^A	1	0.110	4.209	-1.48 ^b	
		2-2	4.76	3008.1589	3007.2824	-0.1	33242.925 ^A	1	0.087	4.209	-1.73 ^b	
		0-1	4.42	2995.3754	2994.5022	-0.1	33384.797 ^A	1	0.121	4.260	-2.22 ^b	
		1-1	3.58	2987.3272	2986.4559	-0.1	33474.740 ^A	1	0.110	4.260	-3.06 ^b	
		3-2	5.03	2982.3151	2981.4450	0.0	33530.998 ^A	0	0.052	4.209	-1.36 ^b	
		2-1	4.60	2970.9853	2970.1181	-0.3	33658.867 ^A	3	0.087	4.260	-1.94 ^a	
		1-0	4.28	2970.2268	2969.3598	0.0	33667.463 ^A	0	0.110	4.284	-2.32 ^b	
		4-5	3.79	2875.0157	2874.1722	0.0	34782.419 ^A	0	0.000	4.312	-1.90 ^a	
		3-4	3.62	2870.1500	2869.3078	0.3	34841.384 ^A	-4	0.052	4.371	-1.99 ^a	
		2-3	3.20	2864.7040	2863.8631	-0.3	34907.620 ^A	4	0.087	4.415	-2.31 ^a	
		1-2	2.53	2859.7361	2858.8964	0.4	34968.262 ^D	-5	0.110	4.445	-2.89 ^a	I
		2-2	2.75	2844.7572	2843.9212	0.6	35152.385 ^D	-8	0.087	4.445	-2.78 ^a	II
		3-3	2.80	2841.2575	2840.4223	0.4	35195.684 ^B	-5	0.052	4.415	-2.46 ^a	
11	$a^5D-z^3P^o$ (11)	4-5	3.79	2875.0157	2874.1722	0.0	34782.419 ^A	0	0.000	4.312	-1.90 ^a	
		3-4	3.62	2870.1500	2869.3078	0.3	34841.384 ^A	-4	0.052	4.371	-1.99 ^a	
		2-3	3.20	2864.7040	2863.8631	-0.3	34907.620 ^A	4	0.087	4.415	-2.31 ^a	
		1-2	2.53	2859.7361	2858.8964	0.4	34968.262 ^D	-5	0.110	4.445	-2.89 ^a	I
		2-2	2.75	2844.7572	2843.9212	0.6	35152.385 ^D	-8	0.087	4.445	-2.78 ^a	II
12	$a^5D-z^5G^o$ (UV2)	3-3	2.80	2841.2575	2840.4223	0.4	35195.684 ^B	-5	0.052	4.415	-2.46 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
13	$\alpha^5D-z^3G^\circ$ (UV3)	4-4	2.88	2836.2904	2835.4564	0.0	35257.321 ^A	0	0.000	4.371	-2.45 ^a	II
		4-3	2.29	2808.0709	2807.2439	-1.1	35611.636 ^D	14	0.000	4.415	-2.86 ^a	
		3-4	2.28	2828.7241	2827.8920	0.1	35351.627 ^C	-1	0.052	4.434	-2.80 ^a	
		2-3	1	2826.829	2825.997	2.4	35375.33 ^D	-30	0.087	4.473	...	
		4-5	3.06	2826.5191	2825.6875	0.0	35379.206 ^A	0	0.000	4.386	-2.94 ^a	
		3-3	1.66	2803.9922	2803.1662	-0.1	35663.437 ^C	1	0.052	4.473	-3.31 ^a	
		4-4	2.23	2795.8287	2795.0047	-0.7	35767.570 ^B	9	0.000	4.434	-3.01 ^a	
		4-3	0	2771.665	2770.847	-2.3	36079.40 ^D	30	0.000	4.473	...	
14	$\alpha^5D-y^3F^\circ$ (UV4)	3-4	3.26	2757.0814	2756.2667	0.2	36270.239 ^A	-2	0.052	4.548	-2.17 ^a	II
		2-3	2.77	2742.8270	2742.0158	0.2	36458.734 ^A	-2	0.087	4.607	-2.49 ^a	
		1-2	2.08	2729.7778	2728.9698	0.6	36633.018 ^B	-8	0.110	4.652	-3.06 ^a	
		4-4	1.77	2725.8232	2725.0162	0.6	36686.165 ^C	-8	0.000	4.548	-3.51 ^a	
		3-3	1.89	2721.3250	2720.5191	0.4	36746.805 ^C	-6	0.052	4.607	...	
		2-2	1.81	2716.1272	2715.3225	1.8	36817.127 ^C	-24	0.087	4.652	...	
		4-3	2.51	2690.8668	2690.0682	-0.1	37162.746 ^A	2	0.000	4.607	-2.72 ^a	
		2-3	3.44	2772.9286	2772.1101	0.1	36062.955 ^A	-1	0.087	4.558	-1.48 ^a	
15	$\alpha^5D-y^5P^\circ$ (UV5)	1-2	3.80	2757.1428	2756.3282	0.0	36269.431 ^A	0	0.110	4.607	-1.10 ^a	II
		3-3	4.33	2750.9537	2750.1406	0.1	36351.030 ^A	-1	0.052	4.558	-0.66 ^a	
		0-1	3.80	2744.8791	2744.0674	0.1	36431.477 ^A	-1	0.121	4.638	-0.98 ^a	
		2-2	4.21	2743.2166	2742.4053	0.1	36453.556 ^A	-1	0.087	4.607	-0.58 ^a	
		1-1	4.03	2738.1192	2737.3092	0.1	36521.419 ^A	-1	0.110	4.638	-0.61 ^a	
		2-1	3.95	2724.3842	2723.5775	0.1	36705.543 ^A	-1	0.087	4.638	-0.72 ^a	
		3-2	3.91	2721.7083	2720.9023	0.1	36741.630 ^B	-1	0.052	4.607	-0.24 ^a	
		4-3	4.03	2719.8330	2719.0274	0.1	36766.963 ^A	-1	0.000	4.558	0.04 ^a	
16	$\alpha^5D-y^3D^\circ$ (UV6)	2-3	2.13	2668.7060	2667.9127	0.1	37471.344 ^B	-1	0.087	4.733	-2.90 ^a	II
		3-3	2.23	2648.3460	2647.5576	0.1	37759.417 ^A	-1	0.052	4.733	-2.42 ^a	
		1-2	2.12	2646.2095	2645.4216	0.0	37789.903 ^B	0	0.110	4.795	-2.75 ^a	
		2-2	2.24	2633.3788	2632.5939	0.0	37974.028 ^A	0	0.087	4.795	-2.33 ^a	
		1-1	2.38	2624.1486	2623.3660	0.1	38107.598 ^A	-2	0.110	4.835	-2.57 ^a	
		4-3	2.23	2619.4922	2618.7107	1.0	38175.338 ^A	-14	0.000	4.733	-2.43 ^a	
		3-2	2.45	2613.5523	2612.7722	0.1	38262.100 ^A	-2	0.052	4.795	-2.59 ^a	
		2-1	2.10	2611.5305	2610.7509	0.2	38291.722 ^B	-3	0.087	4.835	-2.96 ^a	
17	$\alpha^5D-x^5D^\circ$ (UV7)	3-4	4.05	2550.3786	2549.6134	0.1	39209.865 ^A	-2	0.052	4.913	-0.69 ^a	II
		2-3	3.75	2546.7428	2545.9784	0.0	39265.842 ^A	0	0.087	4.955	-0.31 ^a	
		1-2	3.67	2541.7353	2540.9721	0.0	39343.200 ^A	0	0.110	4.988	-0.33 ^a	
		0-1	3.62	2536.3689	2535.6070	-0.1	39426.441 ^A	1	0.121	5.009	-0.56 ^a	
		1-1	3.34	2530.5960	2529.8354	0.0	39516.383 ^A	0	0.110	5.009	-0.96 ^a	
		2-2	3.69	2529.8954	2529.1350	-0.1	39527.326 ^A	1	0.087	4.988	-0.32 ^a	
		3-3	3.82	2528.1950	2527.4350	0.3	39553.911 ^A	-5	0.052	4.955	0.11 ^a	
		1-0	3.50	2525.0517	2524.2925	-0.1	39603.149 ^A	1	0.110	5.020	-0.51 ^a	
18	$\alpha^5D-y^7P^\circ$ (UV8)	4-4	4.07	2523.6084	2522.8494	0.1	39625.800 ^A	-1	0.000	4.913	0.26 ^a	II
		2-1	3.71	2518.8595	2518.1017	0.1	39700.507 ^A	-1	0.087	5.009	-0.26 ^a	
		3-2	3.78	2511.5911	2510.8349	0.1	39815.399 ^A	-1	0.052	4.988	-0.22 ^a	
		4-3	3.76	2501.8858	2501.1319	-0.1	39969.850 ^A	1	0.000	4.955	-0.35 ^a	
		1-2	3.02	2553.3717	2552.6058	-0.2	39163.902 ^A	3	0.110	4.966	-2.52 ^a	
		2-2	3.42	2541.4266	2540.6635	3.0	39347.979 ^A	-46	0.087	4.966	-2.17 ^a	
		2-3	3.15	2531.4524	2530.6916	4.2	39503.014 ^A	-66	0.087	4.985	...	
		3-2	9	2522.953	2522.194	0.0	39636.09 ^D	0	0.052	4.966	...	
19	$\alpha^5D-x^5F^\circ$ (UV9)	3-3	3.49	2513.1214	2512.3649	0.1	39791.154 ^A	-1	0.052	4.985	-1.88 ^a	II
		3-4	2.31	2499.6272	2498.8738	2.2	40005.966 ^D	-35	0.052	5.012	...	
		4-3	3.76	2487.1231	2486.3727	-0.6	40207.097 ^B	9	0.000	4.985	-1.70 ^a	
		4-4	3.65	2473.9041	2473.1568	-0.2	40421.938 ^A	4	0.000	5.012	-1.64 ^a	
		1-2	4.12	2491.9065	2491.1550	-0.1	40129.916 ^A	1	0.110	5.085	0.13 ^a	
		2-3	4.26	2491.3958	2490.6443	0.0	40138.143 ^A	0	0.087	5.064	0.35 ^a	
		0-1	3.58	2490.5036	2489.7524	0.0	40152.521 ^A	0	0.121	5.099	-0.19 ^a	
		3-4	3.86	2488.8933	2488.1425	-0.3	40178.500 ^B	5	0.052	5.033	0.55 ^a	
		1-1	4.00	2484.9376	2484.1876	0.2	40242.460 ^A	-3	0.110	5.099	-0.20 ^a	II
		4-5	4.58	2484.0205	2483.2708	-0.3	40257.316 ^B	5	0.000	4.991	0.69 ^a	
		2-2	3.88	2480.5253	2479.7764	-0.1	40314.042 ^A	1	0.087	5.085	-0.10 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		3-3	3.60	2473.6422	2472.8949	0.0	40426.218 ^A	0	0.052	5.064	-0.08 ^a	
		2-1	3.18	2473.6186	2472.8713	-0.9	40426.604 ^A	15	0.087	5.099	-1.24 ^a	
		4-4	3.97	2463.3923	2462.6473	0.1	40594.428 ^A	-1	0.000	5.033	-0.32 ^a	
		3-2	3.20	2462.9258	2462.1810	-0.1	40602.116 ^A	1	0.052	5.085	-1.30 ^a	
		4-3	3.05	2448.4510	2447.7095	0.1	40842.149 ^A	-1	0.000	5.064	-1.68 ^a	
20	$a^5D-z^5S^o$ (UV10)	1-2	1.85	2499.5717	2498.8184	0.0	40006.854 ^C	0	0.110	5.070	-3.24 ^a	
		2-2	2.94	2488.1205	2487.3699	0.1	40190.979 ^A	-1	0.087	5.070	-1.90 ^a	
		3-2	1.57	2470.4144	2469.6679	0.9	40479.038 ^C	-15	0.052	5.070	...	
21	$a^5D-w^5P^o$ (UV11)	2-3	3.44	2390.7013	2389.9729	-0.1	41828.731 ^A	1	0.087	5.273	-1.57 ^a	
		1-2	3.43	2382.5628	2381.8362	1.8	41971.612 ^A	-31	0.110	5.314	-1.73 ^a	
		0-1	3.12	2375.2435	2374.5186	-0.1	42100.947 ^A	2	0.121	5.341	-2.10 ^a	
		3-3	3.70	2374.3492	2373.6245	0.0	42116.804 ^A	0	0.052	5.273	-1.41 ^a	
		2-2	3.19	2372.1546	2371.4304	0.0	42155.768 ^A	0	0.087	5.314	-1.95 ^a	
		1-1	3.02	2370.1800	2369.4562	-0.1	42190.889 ^A	1	0.110	5.341	-2.19 ^a	
		4-3	6	2351.133	2350.413	2.2	42532.69 ^D	-40	0.000	5.273	-3.03 ^a	
22	$a^5D-y^5G^o$ (UV12)	1-2	0?	2362.844	2362.122	0.6	42321.88 ^D	-10	0.110	5.357	...	
		2-3	2.68	2356.6299	2355.9092	-0.1	42433.477 ^A	1	0.087	5.348	-2.52 ^a	
		2-2	1.52	2352.6064	2351.8866	-1.8	42506.048 ^D	33	0.087	5.357	...	
		3-4	2*	2347.026	2346.308	-3.3	42607.11 ^D	60	0.052	5.334	...	
		3-3	1	2340.742	2340.025	2.7	42721.50 ^D	-50	0.052	5.348	...	
		4-5	1.97	2330.3554	2329.6406	0.3	42911.909 ^B	-5	0.000	5.320	...	
		4-4	d0?	2324.337	2323.623	-2.2	43023.03 ^D	40	0.000	5.334	...	
23	$a^5D-z^5H^o$ (UV13)	2-3	0	2346.212	2345.494	3.3	42621.89 ^D	-60	0.087	5.372	...	
		3-4	1	2342.313	2341.595	7.1	42692.85 ^D	-130	0.052	5.345	...	
		3-3	0	2330.457	2329.742	-0.5	42910.04 ^D	10	0.052	5.372	...	
		4-5	6*	2326.033	2325.319	2.2	42991.65 ^D	-40	0.000	5.330	...	
24	$a^5D-z^5I^o$	3-4	1.34	2324.1355	2323.4220	0.9	43026.751 ^D	-17	0.052	5.386	...	II
		4-4	2.68	2301.8827	2301.1741	0.0	43442.701 ^D	0	0.000	5.386	...	II
		4-5	1.45	2300.9598	2300.2514	-0.4	43460.125 ^B	7	0.000	5.388	...	
25	$a^5D-w^5D^o$ (UV14)	3-4	3.49	2321.0705	2320.3577	0.0	43083.568 ^A	0	0.052	5.393	-0.99 ^a	
		2-3	3.37	2313.8153	2313.1041	-0.2	43218.662 ^A	4	0.087	5.446	-1.18 ^a	
		1-2	3.29	2309.7092	2308.9989	-0.1	43295.493 ^A	1	0.110	5.478	-1.39 ^a	
		0-1	2.89	2302.3926	2301.6839	0.2	43433.080 ^A	-3	0.121	5.506	-1.68 ^a	
		2-2	3.10	2299.9283	2299.2201	0.1	43479.617 ^A	-1	0.087	5.478	-1.56 ^a	
		4-4	3.90	2298.8769	2298.1690	0.0	43499.502 ^A	0	0.000	5.393	-0.66 ^a	
		3-3	3.53	2298.4950	2297.7871	0.1	43506.730 ^A	-1	0.052	5.446	-1.10 ^a	
		1-1	2.59	2297.6345	2296.9269	0.1	43523.023 ^A	-2	0.110	5.506	-2.02 ^a	
		1-0	3.14	2295.1152	2294.4081	0.1	43570.798 ^A	-1	0.110	5.512	-1.55 ^a	
		2-1	3.39	2287.9552	2287.2496	0.0	43707.150 ^A	0	0.087	5.506	-1.28 ^a	
		3-2	3.35	2284.7904	2284.0856	0.1	43767.690 ^A	-1	0.052	5.478	-1.30 ^a	
		4-3	3.39	2276.7289	2276.0258	0.0	43922.664 ^A	0	0.000	5.446	-1.17 ^a	
		2-3	3.53	2300.8502	2300.1418	0.0	43462.195 ^A	0	0.087	5.476	-1.56 ^a	
		3-4	3.38	2293.2315	2292.5248	0.1	43606.588 ^A	-1	0.052	5.458	-1.68 ^a	
		1-2	2.66	2284.3600	2283.6552	0.1	43775.938 ^A	-1	0.110	5.537	-2.22 ^a	
26	$a^5D-v^5D^o$ (UV16)	0-1	2.43	2284.0088	2283.3041	0.0	43782.669 ^A	0	0.121	5.549	-2.22 ^a	
		1-1	d0?	2279.326	2278.623	0.0	43872.61 ^D	0	0.110	5.549	...	
		1-0	2.34	2275.8945	2275.1916	-0.2	43938.768 ^A	3	0.110	5.558	-2.32 ^a	
		2-2	2.44	2274.7935	2274.0908	1.6	43960.034 ^D	-31	0.087	5.537	...	I
		4-4	2.55	2271.5645	2270.8626	0.0	44022.522 ^A	0	0.000	5.458	...	
		2-1	2.28	2269.8004	2269.0988	-0.1	44056.737 ^A	1	0.087	5.549	...	
		4-3	1.97	2264.1747	2263.4743	-0.1	44166.204 ^D	2	0.000	5.476	...	II
		3-2	1.75	2259.9821	2259.2826	0.1	44248.138 ^B	-1	0.052	5.537	-2.31 ^b	
		1-2	3.34	2304.2897	2303.5806	-0.2	43397.321 ^A	3	0.110	5.491	-1.72 ^a	
		0-1	3.13	2304.1334	2303.4243	0.0	43400.265 ^A	0	0.121	5.502	-1.76 ^a	
		1-1	2.41	2299.3683	2298.6603	0.1	43490.205 ^A	-2	0.110	5.502	-2.42 ^a	
27	$a^5D-w^5F^o$ (UV15)	2-2	2.63	2294.5552	2293.8482	0.6	43581.432 ^A	-12	0.087	5.491	-2.37 ^a	
		2-1	2.26	2289.6742	2288.9683	-0.2	43674.336 ^D	4	0.087	5.502	...	II
		2-3	2.56	2280.6410	2279.9371	0.2	43847.321 ^A	-3	0.087	5.523	-1.99 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		3-2	0	2279.484	2278.780	-3.1	43869.58 ^D	60	0.052	5.491	...	II
		3-4	3.29	2272.7718	2272.0696	0.0	43999.138 ^D	0	0.052	5.507	-1.69 ^a	
		3-3	2.81	2265.7550	2265.0543	0.0	44135.399 ^A	0	0.052	5.523	-2.11 ^a	
		4-5	3.32	2260.2097	2259.5102	-0.1	44243.682 ^A	1	0.000	5.485	-1.32 ^a	
		4-4	2.67	2251.4880	2250.7904	0.0	44415.071 ^A	0	0.000	5.507	-2.08 ^a	
		4-3	d0?	2244.604	2243.908	2.0	44551.29 ^D	-40	0.000	5.523	...	
		1-2	2.15	2292.3313	2291.6249	-1.8	43623.711 ^B	35	0.110	5.519	...	
		2-2	1.04	2282.6976	2281.9932	-0.8	43807.817 ^C	16	0.087	5.519	...	
		3-2	3.03	2267.7858	2267.0847	0.1	44095.875 ^A	-1	0.052	5.519	-1.75 ^a	
28	$\alpha^5D-y^5S^\circ$ (UV17)	1-2	2.15	2292.3313	2291.6249	-1.8	43623.711 ^B	35	0.110	5.519	...	
		2-2	1.04	2282.6976	2281.9932	-0.8	43807.817 ^C	16	0.087	5.519	...	
		3-2	3.03	2267.7858	2267.0847	0.1	44095.875 ^A	-1	0.052	5.519	-1.75 ^a	
29	$\alpha^5D-x^3D^\circ$ (UV18)	1-2	1.90	2252.5712	2251.8733	-0.8	44393.713 ^B	15	0.110	5.614	...	
		2-3	2.20	2246.3493	2245.6528	-0.2	44516.674 ^A	4	0.087	5.606	...	
		0-1	0.78	2243.4767	2242.7808	0.8	44573.674 ^C	-15	0.121	5.648	...	
		2-2	1.94	2243.2659	2242.5700	-2.0	44577.863 ^B	40	0.087	5.614	...	
		1-1	...	2238.958	2238.263	...	44663.632 ^D	...	0.110	5.648	...	
		3-3	2.08	2231.9066	2231.2132	0.1	44804.742 ^A	-2	0.052	5.606	...	MII
		2-1	1.36	2229.7663	2229.0733	0.3	44847.749 ^B	-7	0.087	5.648	...	
		3-2	2.01	2228.8645	2228.1717	0.1	44865.895 ^A	-2	0.052	5.614	-2.11 ^b	
		4-3	1.72	2211.3776	2210.6885	-0.1	45220.681 ^A	3	0.000	5.606	...	
30	$\alpha^5D-y^3G^\circ$ (UV19)	2-3	0.78	2229.2104	2228.5175	1.5	44858.933 ^D	-30	0.087	5.649	...	II
		3-4	1.26	2221.6064	2220.9151	-0.4	45012.474 ^B	8	0.052	5.632	...	
		4-5	1.70	2207.7569	2207.0686	0.0	45294.842 ^A	0	0.000	5.616	...	
		4-4	0?	2201.264	2200.577	-1.9	45428.44 ^D	40	0.000	5.632	...	
31	$\alpha^5D-x^5G^\circ$ (UV20)	1-2	1.51	2218.4337	2217.7431	-1.3	45076.848 ^C	27	0.110	5.699	...	II
		2-3	1.43	2211.9247	2211.2355	-0.4	45209.496 ^D	9	0.087	5.692	...	
		2-2	d0?	2209.412	2208.723	1.0	45260.92 ^D	-20	0.087	5.699	...	
		3-4	1.72	2201.8051	2201.1180	0.3	45417.281 ^A	-6	0.052	5.682	...	
		3-3	0.70	2197.9205	2197.2342	0.4	45497.552 ^C	-9	0.052	5.692	...	
		4-5	1.77	2186.9338	2186.2498	0.2	45726.122 ^A	-4	0.000	5.669	...	II
		4-4	0.70	2181.8237	2181.1407	0.1	45833.218 ^D	-2	0.000	5.682	...	
32	$\alpha^5D-w^5P^\circ$ (UV21)	1-2	2.56	2201.4113	2200.7243	-0.1	45425.405 ^A	3	0.110	5.742	-0.99 ^b	
		0-1	2.52	2201.0769	2200.3900	-0.1	45432.306 ^A	3	0.121	5.754	...	
		2-3	2.33	2201.0390	2200.3520	-0.1	45433.089 ^A	3	0.087	5.720	...	
		1-1	2.96	2196.7280	2196.0420	-0.1	45522.249 ^A	3	0.110	5.754	-0.59 ^b	
		2-2	3.19	2192.5242	2191.8391	-0.2	45609.530 ^A	4	0.087	5.742	-0.38 ^b	
		2-1	2.97	2187.8787	2187.1945	-0.1	45706.374 ^A	3	0.087	5.754	...	
		3-3	3.11	2187.1710	2186.4869	-0.1	45721.163 ^A	2	0.052	5.720	...	
		3-2	2.97	2178.7630	2178.0807	-0.1	45897.603 ^A	2	0.052	5.742	...	
		4-3	3.51	2167.4533	2166.7733	-0.1	46137.096 ^B	2	0.000	5.720	0.13 ^b	
33	$\alpha^5D-z^3S^\circ$ (UV22)	0-1	2.21	2191.8893	2191.2043	0.0	45622.741 ^A	0	0.121	5.778	-1.80 ^b	
		1-1	2.60	2187.5767	2186.8926	-0.0	45712.683 ^A	1	0.110	5.778	...	
		2-1	2.60	2178.8009	2178.1186	0.2	45896.804 ^A	-4	0.087	5.778	...	
34	$\alpha^5D-y^3P^\circ$ (UV23)	1-0	1.20	2184.1499	2183.4665	0.1	45784.403 ^B	-2	0.110	5.786	...	
		1-2	10	2181.552	2180.869	0.0	45838.93 ^D	0	0.110	5.793	...	
		0-1	2.24	2177.5223	2176.8402	0.0	45923.755 ^A	0	0.121	5.815	-1.66 ^b	
		1-1	2.19	2173.2660	2172.5848	0.0	46013.696 ^A	0	0.110	5.815	...	
		2-2	1.56	2172.8235	2172.1424	-0.1	46023.066 ^B	3	0.087	5.793	...	
		2-1	d0?	2164.606	2163.927	1.9	46197.78 ^D	-40	0.087	5.815	...	
		3-2	1.81	2159.3079	2158.6295	0.0	46311.136 ^A	-1	0.052	5.793	...	
35	$\alpha^5D-u^5D^\circ$ (UV24)	1-2	2.09	2173.8950	2173.2137	0.0	46000.381 ^A	-1	0.110	5.813	...	
		2-3	2.39	2171.9781	2171.2972	0.1	46040.980 ^A	-2	0.087	5.795	-1.60 ^b	
		2-2	2.50	2165.2283	2164.5488	0.0	46184.506 ^A	-1	0.087	5.813	...	
		0-1	1.90	2164.5418	2163.8624	0.1	46199.155 ^A	-2	0.121	5.849	...	
		1-0	2.04	2160.6022	2159.9237	0.1	46283.392 ^A	-3	0.110	5.848	...	
		1-1	1.95	2160.3344	2159.6558	-1.5	46289.131 ^B	32	0.110	5.849	...	I
		3-4	2.10	2159.5985	2158.9201	0.1	46304.903 ^A	-2	0.052	5.792	...	
		3-3	2.79	2158.4727	2157.7945	0.0	46329.055 ^A	-1	0.052	5.795	...	
		2-1	2.36	2151.7763	2151.0995	-0.4	46473.232 ^D	9	0.087	5.849	...	
		4-4	2.67	2140.3726	2139.6981	0.1	46720.837 ^A	-2	0.000	5.792	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
36	$a^5D-x^3F^o$ (UV25)	4-3	2.06	2139.2668	2138.5925	0.1	46744.988 ^A	-2	0.000	5.795	-1.87 ^b	I
		1-2	1.83	2159.4132	2158.7349	-0.0	46308.876 ^A	1	0.110	5.851	...	
		2-3	1.86	2155.6974	2155.0198	0.1	46388.700 ^A	-2	0.087	5.839	...	
		3-4	2.36	2151.7763	2151.0995	-1.3	46473.232 ^D	27	0.052	5.813	...	
		2-2	1.96	2150.8614	2150.1848	0.0	46493.000 ^A	0	0.087	5.851	...	
		3-3	2.21	2142.3931	2141.7183	0.0	46676.774 ^A	-1	0.052	5.839	...	
		3-2	d0?	2137.615	2136.941	-1.4	46781.11 ^D	30	0.052	5.851	...	
		4-4	2.71	2132.6902	2132.0173	0.1	46889.136 ^A	-2	0.000	5.813	-1.33 ^b	
37	$a^5D-z^3H^o$ (UV26)	4-3	0.95	2123.4702	2122.7991	-0.8	47092.725 ^D	17	0.000	5.839	...	I
		3-4	1.04	2141.7607	2141.0859	-0.5	46690.558 ^C	10	0.052	5.840	...	
		4-5	0.90	2127.2813	2126.6094	0.5	47008.358 ^C	-10	0.000	5.828	...	
38	$a^5D-w^3D^o$ (UV27)	4-4	0.70	2122.8495	2122.1785	-0.7	47106.495 ^C	15	0.000	5.840	...	I
		1-2	2.30	2162.2580	2161.5791	0.0	46247.949 ^A	0	0.110	5.844	...	
		0-1	1.74	2160.1096	2159.4311	0.0	46293.948 ^A	-1	0.121	5.861	...	
39	$a^5D-w^5G^o$ (UV28)	2-3	1.96	2159.2127	2158.5344	-0.0	46313.178 ^A	1	0.087	5.829	...	II
		1-1	1.04	2155.9207	2155.2430	-0.2	46383.896 ^B	4	0.110	5.861	...	
		2-2	2.34	2153.6838	2153.0067	0.1	46432.071 ^A	-2	0.087	5.844	...	
		2-1	1.45	2147.3966	2146.7207	-0.0	46568.017 ^A	1	0.087	5.861	...	
		3-3	2.44	2145.8652	2145.1896	0.0	46601.250 ^A	-1	0.052	5.829	-1.56 ^b	
		3-2	...	2140.404	2139.730	...	46720.148 ^D	...	0.052	5.844	...	
		4-3	1.15	2126.8824	2126.2106	0.4	47017.175 ^B	-9	0.000	5.829	...	
		2-3	1.18	2128.1461	2127.4741	-1.2	46989.255 ^C	27	0.087	5.913	...	
40	$a^5D-P_{sp3}^1D^o$ (UV29*)	3-4	0.90	2119.8070	2119.1366	0.2	47174.107 ^B	-4	0.052	5.900	...	II
		4-5	1.57	2108.8053	2108.1371	0.4	47420.215 ^D	-10	0.000	5.879	...	
		4-4	d0?	2101.280	2100.614	0.4	47590.03 ^D	-10	0.000	5.900	...	
41	$a^5D-z^1G^o$	1-2	1.60	2149.0794	2148.4032	0.0	46531.551 ^A	-1	0.110	5.879	...	I
		2-2	1.86	2140.6091	2139.9346	0.0	46715.676 ^A	-1	0.087	5.879	...	
		3-2	0.30	2127.4884	2126.8165	-1.4	47003.781 ^C	30	0.052	5.879	...	
42	$a^5D-y^3S^o$ (UV30)	3-4	0?	2125.996	2125.324	0.0	47036.78 ^D	0	0.052	5.883	...	I
		4-4	0?	2107.361	2106.693	0.0	47452.72 ^D	0	0.000	5.883	...	
		0-1	1.15	2146.9580	2146.2822	0.1	46577.529 ^D	-3	0.121	5.896	...	
43	$a^5D-v^5F^o$ (UV31)	1-1	0.60	2142.8211	2142.1461	1.0	46667.452 ^C	-22	0.110	5.896	...	II
		1-2	1.23	2111.9011	2111.2323	0.4	47350.702 ^B	-10	0.110	5.981	...	
		2-3	0.85	2108.8621	2108.1939	-0.9	47418.938 ^C	20	0.087	5.966	...	
		1-1	1.73	2106.9280	2106.2602	0.1	47462.467 ^A	-3	0.110	5.995	...	
		3-4	0.78	2104.6395	2103.9721	-0.6	47514.075 ^C	14	0.052	5.942	...	
		2-2	2.06	2103.7203	2103.0531	-0.0	47534.837 ^A	1	0.087	5.981	...	
		4-5	0.78	2100.5707	2099.9042	0.1	47606.109 ^D	-2	0.000	5.902	...	
		2-1	1.15	2098.7860	2098.1197	0.1	47646.593 ^B	-3	0.087	5.995	...	
44	$a^5D-x^3G^o$ (UV32)	3-3	1.20	2096.1298	2095.4641	1.0	47706.970 ^D	-22	0.052	5.966	...	I
		3-2	2.07	2091.0480	2090.3833	0.0	47822.910 ^A	0	0.052	5.981	...	
		4-4	0	2086.376	2085.712	-0.4	47930.01 ^D	10	0.000	5.942	...	
		4-3	d0?	2078.011	2077.348	-0.9	48122.95 ^D	20	0.000	5.966	...	
		4-4	1.73	2091.5196	2090.8548	-0.5	47812.127 ^D	12	0.000	5.928	...	
		4-5	0.95	2090.5385	2089.8739	-0.8	47834.565 ^D	18	0.000	5.931	...	
		2-3	1.77	2115.8396	2115.1701	0.6	47262.561 ^A	-14	0.087	5.947	...	
		1-2	2.06	2115.2691	2114.5997	0.1	47275.308 ^A	-3	0.110	5.971	...	
45	$a^5D-v^5P^o$ (UV33)	0-1	2.19	2113.6379	2112.9688	0.0	47311.793 ^A	0	0.121	5.987	-1.42 ^b	II
		1-1	2.48	2109.6275	2108.9591	0.0	47401.734 ^A	-1	0.110	5.987	...	
		2-2	2.56	2107.0626	2106.3948	0.1	47459.434 ^A	-2	0.087	5.971	...	
		3-3	2.45	2103.0208	2102.3538	0.1	47550.647 ^A	-2	0.052	5.947	-1.39 ^b	
		2-1	2.40	2101.4646	2100.7978	0.0	47585.860 ^A	-1	0.087	5.987	...	
		3-2	2.75	2094.3501	2093.6848	0.0	47747.508 ^A	-1	0.052	5.971	...	
		4-3	2.95	2084.7848	2084.1213	0.0	47966.581 ^A	-1	0.000	5.947	-0.77 ^b	
		3-4	4	2085.684	2085.020	1.7	47945.90 ^D	-40	0.052	5.996	...	
46	$a^5D-y^5H^o$	4-5	d0?	2073.354	2072.693	10.7	48231.03 ^D	-250	0.000	5.980	...	II

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
47	$a^5D-x^3P^o$ (UV34)	1-2	1.53	2108.9710	2108.3028	0.9	47416.488 ^B	-20	0.110	5.989	...	II
		0-1	1.59	2103.5777	2102.9105	0.0	47538.059 ^B	-1	0.121	6.015	...	
		2-2	1.36	2100.8130	2100.1464	0.6	47600.620 ^D	-13	0.087	5.989	...	
		1-1	1.76	2099.6054	2098.9390	0.2	47627.998 ^A	-5	0.110	6.015	...	
		2-1	1.73	2091.5196	2090.8548	0.0	47812.127 ^D	-1	0.087	6.015	...	
		3-2	1.89	2088.1752	2087.5111	0.3	47888.701 ^A	-6	0.052	5.989	...	I
48	$a^5D-v^3D^o$	3-2	d0?	2048.059	2047.402	-1.7	48826.73 ^D	40	0.052	6.105	...	
		4-3	d0?	2035.209	2034.555	0.8	49135.00 ^D	-20	0.000	6.092	...	
49	$a^5D-n^7D^o$	3-3	1	2024.719	2024.067	10.2	49389.57 ^D	-250	0.052	6.175	...	
		4-4	0	2017.810	2017.159	2.0	49558.68 ^D	-50	0.000	6.144	...	
		3-2	0	2016.433	2015.782	2.0	49592.53 ^D	-50	0.052	6.200	...	
		4-3	d4	2007.828	2007.179	8.1	49805.06 ^D	-200	0.000	6.175	...	
50	$a^5D-n^7F^o$	2-3	d0?	2010.898	2010.248	-0.4	49729.03 ^D	10	0.087	6.253	...	
		2-2	2	2005.946	2005.297	-1.2	49851.79 ^D	30	0.087	6.268	...	
		3-4	1.15	2004.5184	2003.8697	-0.2	49887.294 ^C	5	0.052	6.237	...	
		3-3	0	1999.319	...	1.6	50017.04 ^D	-40	0.052	6.253	...	
		4-5	1.54	1997.9134	...	-1.1	50052.219 ^C	28	0.000	6.205	...	
		4-4	3	1987.957	...	12.6	50302.90 ^D	-320	0.000	6.237	...	II
51	$a^5D-w^3P^o$	0-1	d0?	2038.107	2037.452	0.0	49065.14 ^D	0	0.121	6.204	...	
52	$a^5D-n^7P^o$	2-3	1.11	2003.0285	2002.3800	-1.6	49924.403 ^C	41	0.087	6.277	...	
		4-4	1	1992.599	...	1.6	50185.70 ^D	-40	0.000	6.222	...	
		2-2	d0?	1992.146	...	1.2	50197.13 ^D	-30	0.087	6.311	...	
		3-3	0	1991.540	...	1.2	50212.40 ^D	-30	0.052	6.277	...	
		3-2	d0?	1980.776	...	-1.2	50485.27 ^D	30	0.052	6.311	...	
		4-3	1	1975.178	...	0.0	50628.36 ^D	0	0.000	6.277	...	
53	$a^5D-u^5F^o$ (UV35)	2-3	1.94	1964.0551	...	-0.1	50915.069 ^B	3	0.087	6.400	...	
		1-2	2.05	1963.1218	...	0.2	50939.274 ^A	-4	0.110	6.426	...	
		3-4	2.64	1962.1108	...	0.0	50965.521 ^A	0	0.052	6.370	...	
		0-1	1.92	1962.0254	...	-0.1	50967.741 ^B	2	0.121	6.440	...	
		4-5	2.79	1960.1441	...	-0.0	51016.658 ^A	1	0.000	6.325	...	
		1-1	1.81	1958.5691	...	-0.0	51057.683 ^B	1	0.110	6.440	...	
		2-2	2.33	1956.0512	...	-0.1	51123.405 ^A	3	0.087	6.426	...	
		3-3	2.50	1953.0051	...	-0.1	51203.142 ^A	2	0.052	6.400	...	
		4-4	1.48	1946.2278	...	0.3	51381.446 ^C	-8	0.000	6.370	...	
		3-2	1.70	1945.0913	...	0.3	51411.468 ^B	-9	0.052	6.426	...	
		4-3	2.38	1937.2685	...	0.0	51619.072 ^A	0	0.000	6.400	-1.07 ^b	
54	$a^5D-x^3H^o$	3-4	1.46	1961.0464	...	0.2	50993.183 ^B	-4	0.052	6.374	...	
55	$a^5D-t^5D^o$ (UV36)	2-3	0?	1974.057	...	10.5	50657.11 ^D	-270	0.087	6.368	...	
		3-4	1.15	1973.9163	...	-0.7	50660.709 ^C	17	0.052	6.332	...	
		1-2	d0?	1970.760	...	0.4	50741.85 ^D	-10	0.110	6.401	...	
		0-1	d0	1966.580	...	2.7	50849.70 ^D	-70	0.121	6.426	...	
		2-2	1.64	1963.6337	...	-0.2	50925.994 ^B	4	0.087	6.401	...	
		1-1	1.41	1963.1043	...	-0.4	50939.728 ^C	10	0.110	6.426	...	
		3-3	1.92	1962.8836	...	-0.0	50945.456 ^B	1	0.052	6.368	...	
		1-0	1.73	1958.7331	...	-0.1	51053.408 ^B	3	0.110	6.440	...	
		4-4	2.81	1957.8429	...	0.1	51076.622 ^A	-3	0.000	6.332	...	
		2-1	2.34	1956.0345	...	0.0	51123.843 ^A	-1	0.087	6.426	...	
		3-2	2.49	1952.5886	...	0.0	51214.064 ^A	0	0.052	6.401	...	
		4-3	2.69	1946.9880	...	0.0	51361.386 ^A	-1	0.000	6.368	...	
56	$a^5D-v^3F^o$	3-4	0?	1965.076	...	1.5	50888.62 ^D	-40	0.052	6.361	...	
		3-3	1.52	1962.7333	...	0.7	50949.357 ^C	-17	0.052	6.368	...	
		4-4	1.28	1949.1427	...	-0.3	51304.608 ^D	7	0.000	6.361	...	
		4-3	1.83	1946.8391	...	-0.2	51365.312 ^B	4	0.000	6.368	...	
57	$a^5D-u^5P^o$ (UV37)	2-3	2.42	1961.2458	...	0.0	50988.000 ^A	0	0.087	6.409	...	
		1-2	2.20	1958.6086	...	-0.1	51056.652 ^A	3	0.110	6.440	...	
		0-1	2.06	1955.7022	...	-0.2	51132.528 ^A	4	0.121	6.461	...	
		1-1	2.22	1952.2685	...	0.1	51222.462 ^A	-3	0.110	6.461	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		2-2	2.35	1951.5708	...	-0.1	51240.776 ^A	2	0.087	6.440	...	
		3-3	2.12	1950.2270	...	-0.3	51276.082 ^A	9	0.052	6.409	...	
		2-1	1.78	1945.2758	...	-0.1	51406.593 ^B	2	0.087	6.461	...	
		3-2	2.28	1940.6604	...	-0.1	51528.850 ^A	2	0.052	6.440	-1.44 ^b	
		4-3	2.49	1934.5351	...	0.0	51692.006 ^A	0	0.000	6.409	-1.00 ^b	
58	$a^5D-y^1D^o$	2-2	d0?	1960.621	...	1.5	51004.25 ^D	-40	0.087	6.411	...	
		3-2	1.51	1949.6072	...	-0.5	51292.383 ^C	13	0.052	6.411	...	
59	$a^5D-u^3D^o$	2-3	0	1950.646	...	0.8	51265.07 ^D	-20	0.087	6.443	...	
		3-3	d0?	1939.741	...	-3.8	51553.27 ^D	100	0.052	6.443	...	
		3-2	0	1927.483	...	-5.6	51881.13 ^D	150	0.052	6.484	...	II
		4-3	1	1924.220	...	-0.4	51969.11 ^D	10	0.000	6.443	...	
60	$a^5D-t^3D^o$	2-3	d0?	1941.400	...	0.0	51509.22 ^D	0	0.087	6.473	...	
		1-2	d0?	1930.701	...	4.5	51794.66 ^D	-120	0.110	6.532	...	
		2-1	1.32	1917.4069	...	0.8	52153.772 ^C	-21	0.087	6.553	...	
61	$a^5D-^4F5p^3G^o$	3-4	1	1865.612	...	-2.4	53601.72 ^D	70	0.052	6.697	...	
		3-3	1.28	1853.8610	...	-0.3	53941.476 ^C	9	0.052	6.739	...	
		4-4	2	1851.248	...	-1.0	54017.61 ^D	30	0.000	6.697	...	
62	$a^5D-Gsp3^3F^o$	3-4	1.62	1903.3950	...	-0.4	52537.703 ^C	12	0.052	6.565	...	
		2-3	1.26	1899.2089	...	0.1	52653.501 ^D	-3	0.087	6.615	...	
		1-2	1.38	1891.7440	...	-0.3	52861.276 ^D	7	0.110	6.664	...	
		2-2	1.04	1885.1767	...	-1.2	53045.426 ^D	33	0.087	6.664	...	
63	$a^5D-^4F5p^5G^o$	4-5	1.41	1866.1414	...	-0.1	53586.508 ^D	2	0.000	6.644	...	
		3-3	d0?	1861.542	...	-6.6	53718.91 ^D	190	0.052	6.712	...	
		3-2	d0?	1857.296	...	0.7	53841.72 ^D	-20	0.052	6.727	...	
		4-4	0	1856.930	...	-7.2	53852.32 ^D	210	0.000	6.677	...	II
64	$a^5D-^4F5p^5F^o$ (UV40*)	2-3	2.00	1888.3221	...	-0.0	52957.068 ^B	1	0.087	6.653	...	
		3-4	2.40	1887.7648	...	-0.1	52972.702 ^B	3	0.052	6.619	...	
		4-5	1.69	1883.7789	...	-0.0	53084.785 ^B	1	0.000	6.581	...	
		1-2	2.05	1881.3115	...	-0.6	53154.408 ^C	18	0.110	6.700	...	
		3-3	1.20	1878.1045	...	-1.1	53245.174 ^D	32	0.052	6.653	...	
		1-1	1	1874.897	...	0.7	53336.26 ^D	-20	0.110	6.723	...	
		4-4	2.17	1873.0576	...	-0.3	53388.641 ^B	8	0.000	6.619	...	
		3-2	2.55	1864.7465	...	-0.0	53626.591 ^D	1	0.052	6.700	...	II
		4-3	2	1863.543	...	-5.6	53661.23 ^D	160	0.000	6.653	...	
65	$a^5D-y^1H^o$	4-5	d0?	1875.697	...	-2.8	53313.52 ^D	80	0.000	6.610	...	
66	$a^5D-^4F5p^3F^o$	3-4	1.74	1889.8979	...	-0.5	52912.910 ^C	13	0.052	6.612	...	
		4-4	1.30	1875.1588	...	0.5	53328.817 ^D	-14	0.000	6.612	...	
		2-3	1	1866.191	...	-1.7	53585.08 ^D	50	0.087	6.731	...	
		1-2	0	1858.106	...	0.3	53818.24 ^D	-10	0.110	6.782	...	
		3-3	1.70	1856.2151	...	1.0	53873.068 ^D	-29	0.052	6.731	...	
		2-2	d0?	1851.770	...	-0.3	54002.39 ^D	10	0.087	6.782	...	
		4-3	1.38	1841.9940	...	1.3	54288.993 ^D	-37	0.000	6.731	...	
67	$a^5D-^4F5p^5D^o$	2-3	1.82	1883.9226	...	0.1	53080.736 ^B	-3	0.087	6.668	...	
		4-4	2.49	1865.3093	...	-0.2	53610.413 ^B	5	0.000	6.647	...	
		1-2	1.54	1864.1918	...	-1.1	53642.549 ^C	33	0.110	6.761	...	
		1-1	1	1861.675	...	-2.1	53715.07 ^D	60	0.110	6.770	...	
		4-3	1.70	1859.2635	...	0.3	53784.738 ^D	-8	0.000	6.668	...	
		2-2	1.60	1857.8164	...	0.3	53826.631 ^C	-10	0.087	6.761	...	
		2-1	1.68	1855.3174	...	-0.1	53899.132 ^D	4	0.087	6.770	...	II
		3-2	1.72	1847.9266	...	0.4	54114.703 ^D	-12	0.052	6.761	...	
68	$a^5D-Dsp3^5F^o$	0-1	1.36	1896.8581	...	1.2	52718.757 ^D	-32	0.121	6.657	...	
		1-2	0?	1892.689	...	2.1	52834.88 ^D	-60	0.110	6.661	...	
		2-1	d0?	1887.047	...	0.0	52992.85 ^D	0	0.087	6.657	...	
		3-4	1.61	1870.3520	...	-0.1	53465.872 ^C	3	0.052	6.680	...	
		4-3	1.61	1861.0329	...	-0.4	53733.601 ^C	12	0.000	6.662	...	
		4-4	1.40	1855.9142	...	-0.0	53881.802 ^C	1	0.000	6.680	...	
		4-5	2.24	1851.3804	...	-0.1	54013.752 ^C	4	0.000	6.697	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷ Bl. ⁸
69	$a^5D-x^1F^o$	2-3	0	1884.684	...	-0.7	53059.29 ^D	20	0.087	6.666	...
70	$a^5D-x^3S^o$	0-1	0?	1892.853	...	-1.1	52830.31 ^D	30	0.121	6.671	...
		1-1	0	1889.640	...	3.2	52920.13 ^D	-90	0.110	6.671	...
71	$a^5D-^4F5p^3D^o$	2-3	0	1882.036	...	-3.5	53133.94 ^D	100	0.087	6.675	...
		3-3	1.53	1871.8913	...	0.3	53421.906 ^D	-8	0.052	6.675	...
		2-2	1.41	1864.3215	...	-1.8	53638.818 ^D	51	0.087	6.737	...
		4-3	1.56	1857.4308	...	1.4	53837.807 ^D	-40	0.000	6.675	...
		3-2	1.62	1854.3644	...	0.3	53926.834 ^D	-8	0.052	6.737	...
		2-1	0	1848.318	...	0.0	54103.24 ^D	0	0.087	6.795	...
72	$a^5D-Dsp3^5D^o$	1-2	1.61	1885.9074	...	0.4	53024.873 ^C	-10	0.110	6.684	...
		1-1	1.20	1883.6799	...	1.1	53087.577 ^D	-31	0.110	6.692	...
		2-3	1.72	1880.1407	...	0.2	53187.510 ^C	-5	0.087	6.681	...
		2-2	1.59	1879.3807	...	-0.3	53209.017 ^D	8	0.087	6.684	...
		2-1	1.70	1877.1685	...	0.4	53271.722 ^C	-10	0.087	6.692	...
		3-3	1	1870.011	...	-1.0	53475.62 ^D	30	0.052	6.681	...
		3-2	2.15	1869.2606	...	-0.2	53497.090 ^C	7	0.052	6.684	...
		4-3	2.51	1855.5792	...	-0.3	53891.530 ^B	8	0.000	6.681	...
		4-4	d0?	1841.582	...	6.8	54301.14 ^D	-200	0.000	6.732	...
73	$a^5D-t^3G^o$	4-5	3	1852.424	...	-1.0	53983.32 ^D	30	0.000	6.693	...
74	$a^5D-t^5P^o$ (UV39)	1-2	1.65	1878.8480	...	-0.4	53224.104 ^C	10	0.110	6.709	...
		0-1	1.89	1876.4197	...	0.1	53292.981 ^C	-3	0.121	6.729	...
		2-3	1.32	1876.1476	...	-0.1	53300.710 ^D	3	0.087	6.696	...
		1-1	2.05	1873.2581	...	-0.0	53382.927 ^B	1	0.110	6.729	...
		2-2	2.28	1872.3709	...	-0.1	53408.221 ^B	2	0.087	6.709	...
		2-1	1.70	1866.8190	...	-0.2	53567.056 ^C	5	0.087	6.729	...
		3-3	2.27	1866.0621	...	-0.2	53588.786 ^B	6	0.052	6.696	...
		3-2	2.13	1862.3257	...	-0.3	53696.301 ^C	9	0.052	6.709	...
		4-3	1	1851.688	...	-2.1	54004.78 ^D	60	0.000	6.696	...
75	$a^5D-s^6D6p^7D^o$	4-4	0?	1769.385	...	-2.2	56516.81 ^D	70	0.000	7.007	...
76	$a^5D-s^6D6p^7F^o$	4-5	1	1769.820	...	0.9	56502.92 ^D	-30	0.000	7.005	...
		3-2	0	1762.910	...	2.5	56724.40 ^D	-80	0.052	7.084	...
77	$a^5D-s^6D6p^7P^o$	4-4	1	1768.611	...	1.3	56541.55 ^D	-40	0.000	7.010	...
		4-3	3	1757.829	...	1.9	56888.35 ^D	-60	0.000	7.053	...
78	$a^5D-s^6D6p^5F^o$	2-3	0	1765.542	...	-0.3	56639.83 ^D	10	0.087	7.109	...
		3-4	2	1765.275	...	0.0	56648.40 ^D	0	0.052	7.075	...
		1-2	1	1764.156	...	1.2	56684.33 ^D	-40	0.110	7.138	...
		4-5	1	1763.444	...	1.9	56707.22 ^D	-60	0.000	7.031	...
		2-2	0	1758.443	...	0.3	56868.49 ^D	-10	0.087	7.138	...
79	$a^5D-s^6D6p^5D^o$	3-4	1	1775.684	...	1.9	56316.33 ^D	-60	0.052	7.034	...
		2-2	3	1763.304	...	0.6	56711.72 ^D	-20	0.087	7.118	...
		4-4	3	1762.666	...	2.5	56732.25 ^D	-80	0.000	7.034	...
		3-3	1*	1762.037	...	2.8	56752.50 ^D	-90	0.052	7.088	...
80	$a^5D-s^6D6p^5P^o$	0-1	0	1761.700	...	1.2	56763.35 ^D	-40	0.121	7.159	...
		1-1	0	1758.914	...	2.2	56853.26 ^D	-70	0.110	7.159	...
		4-3	1	1758.355	...	0.0	56871.34 ^D	0	0.000	7.051	...
81	$a^5D-Dsp1^3D^o$	2-3	0	1765.471	...	0.6	56642.11 ^D	-20	0.087	7.110	...
82	$a^5D-s^4D5p^5D^o$	3-3	2	1735.576	...	-5.7	57617.76 ^D	190	0.052	7.195	...
		4-4	6	1731.184	...	-3.9	57763.93 ^D	130	0.000	7.162	...
		2-1	1	1729.616	...	-9.3	57816.30 ^D	310	0.087	7.255	...
		3-2	3	1726.678	...	-1.2	57914.68 ^D	40	0.052	7.232	...
		4-3	4	1723.141	...	-1.5	58033.56 ^D	50	0.000	7.195	...
83	$a^5D-s^4D5p^5F^o$	2-3	3	1722.542	...	-3.6	58053.74 ^D	120	0.087	7.285	...
		3-4	4	1722.195	...	-1.8	58065.43 ^D	60	0.052	7.251	...
		1-1	1	1721.484	...	-1.2	58089.41 ^D	40	0.110	7.312	...
		4-5	6	1719.777	...	-1.8	58147.07 ^D	60	0.000	7.209	...

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
84	$a^5D-s^4D5p^5P^o$	2-2	2	1718.148	...	-2.7	58202.20 ^D	90	0.087	7.303	...	II
		4-4	1	1709.944	...	-4.1	58481.44 ^D	140	0.000	7.251	...	
		1-2	1	1717.703	...	-3.5	58217.28 ^D	120	0.110	7.328	...	
		3-3	4	1716.486	...	-0.9	58258.56 ^D	30	0.052	7.274	...	
		0-1	0	1712.852	...	-1.2	58382.16 ^D	40	0.121	7.359	...	
		2-2	3	1712.289	...	-1.8	58401.35 ^D	60	0.087	7.328	...	
		1-1	1	1710.216	...	-2.3	58472.15 ^D	80	0.110	7.359	...	
		2-1	1	1704.845	...	-3.5	58656.36 ^D	120	0.087	7.359	...	
		4-3	4	1704.320	...	0.6	58674.43 ^D	-20	0.000	7.274	...	
		2-3	d0?	1725.011	...	-6.0	57970.65 ^D	200	0.087	7.274	...	
85	$a^5F-z^7D^o$ (12)	3-4	1.32	8449.9604	8447.6391	2.1	11834.375 ^C	-3	0.958	2.425	...	II
		4-5	1.76	8351.3395	8349.0449	-0.7	11974.127 ^A	1	0.915	2.399	...	
		3-2	1.80	8207.1929	8204.9372	0.0	12184.434 ^A	0	0.958	2.469	...	
		4-4	1.34	8206.3584	8204.1030	0.7	12185.673 ^A	-1	0.915	2.425	...	
		4-3	2.19	8077.3715	8075.1509	1.3	12380.265 ^A	-2	0.915	2.449	-5.06 ^b	
		5-5	2.51	8049.8317	8047.6185	0.6	12422.620 ^A	-1	0.859	2.399	...	
		5-4	2.48	7915.0437	7912.8670	0.6	12634.169 ^A	-1	0.859	2.425	-4.85 ^b	
86	$a^5F-z^7F^o$ (13)	1-2	3.05	6649.9169	6648.0810	0.9	15037.782 ^A	-2	1.011	2.875	...	II
		1-1	3.60	6626.8517	6625.0220	0.4	15090.122 ^A	-1	1.011	2.882	-5.35 ^b	
		1-0	3.17	6615.6521	6613.8254	0.4	15115.668 ^A	-1	1.011	2.885	...	
		2-3	3.13	6611.5042	6609.6787	0.4	15125.151 ^D	-1	0.990	2.865	...	
		2-2	4.00	6576.0444	6574.2284	1.3	15206.710 ^D	-3	0.990	2.875	-5.02 ^a	
		2-1	3.10	6553.4879	6551.6780	0.9	15259.050 ^A	-2	0.990	2.882	-5.79 ^b	
		3-4	2.11	6549.3851	6547.5763	1.7	15268.609 ^C	-4	0.958	2.851	...	
		3-3	4.28	6500.7350	6498.9392	0.8	15382.876 ^A	-2	0.958	2.865	-4.70 ^b	
		3-2	2.80	6466.4507	6464.6642	2.1	15464.434 ^A	-5	0.958	2.875	...	
		4-5	4.52	6464.5111	6462.7251	12.1	15469.074 ^D	-29	0.915	2.832	-2.50 ^a	
		4-4	4.45	6402.0872	6400.3180	0.4	15619.906 ^A	-1	0.915	2.851	-4.32 ^a	
		5-6	4.45	6360.4557	6358.6976	0.8	15722.144 ^A	-2	0.859	2.808	-4.47 ^b	
		4-3	2.45	6355.5930	6353.8363	0.0	15734.173 ^B	0	0.915	2.865	...	
		5-5	3.58	6282.3553	6280.6182	0.4	15917.597 ^A	-1	0.859	2.832	-4.39 ^b	
87	$a^5F-z^7P^o$ (14)	4-4	1.53	6121.9435	6120.2494	3.0	16334.682 ^A	-8	0.915	2.940	-5.95 ^b	I
		3-2	1.20	5959.8790	5958.2284	-2.8	16778.864 ^D	8	0.958	3.038	...	
		5-4	2.61	5958.3446	5956.6944	0.0	16783.185 ^A	0	0.859	2.940	-4.61 ^b	
		4-3	1.77	5950.9279	5949.2797	-2.5	16804.102 ^D	7	0.915	2.998	...	
88	$a^5F-z^5D^o$ (15)	2-3	4.35	5508.3090	5506.7791	0.0	18154.392 ^A	0	0.990	3.241	-2.80 ^b	Ar
		3-4	4.16	5502.9937	5501.4653	0.0	18171.927 ^A	0	0.958	3.211	-3.05 ^a	
		1-2	4.28	5499.0434	5497.5161	0.0	18184.981 ^A	0	1.011	3.266	-2.85 ^b	
		1-1	5.06	5457.1257	5455.6095	0.3	18324.665 ^A	-1	1.011	3.283	-2.09 ^a	
		2-2	5.26	5448.4306	5446.9168	0.0	18353.909 ^A	0	0.990	3.266	-1.91 ^a	
		1-0	5.03	5436.0344	5434.5238	0.0	18395.763 ^A	0	1.011	3.292	-2.12 ^b	
		3-3	5.16	5431.2060	5429.6967	0.0	18412.117 ^A	0	0.958	3.241	-1.88 ^b	
		2-1	5.16	5407.2781	5405.7752	0.3	18493.593 ^A	-1	0.990	3.283	-1.84 ^b	
		4-4	5.12	5398.6285	5397.1280	0.0	18523.223 ^A	0	0.915	3.211	-1.99 ^b	
		3-2	5.59	5372.9834	5371.4897	0.0	18611.634 ^A	0	0.958	3.266	-1.65 ^b	
		4-3	5.87	5329.5208	5328.0387	0.0	18763.413 ^A	0	0.915	3.241	-1.47 ^b	
		5-4	6.01	5271.0039	5269.5374	0.0	18971.718 ^A	0	0.859	3.211	-1.32 ^b	
89	$a^5F-z^5F^o$ (16)	1-2	3.94	5153.3461	5151.9109	-0.3	19404.868 ^D	1	1.011	3.417	-3.32 ^b	II
		2-3	4.14	5152.2744	5150.8395	0.0	19408.904 ^A	0	0.990	3.396	-3.04 ^a	
		3-4	4.20	5144.3613	5142.9285	0.0	19438.759 ^A	0	0.958	3.368	-3.07 ^a	
		4-5	4.13	5128.7880	5127.3593	0.0	19497.784 ^A	0	0.915	3.332	-3.31 ^b	
		1-1	4.18	5125.1476	5123.7200	0.0	19511.633 ^A	0	1.011	3.430	-3.07 ^b	
		2-2	4.20	5108.8708	5107.4474	0.0	19573.797 ^A	0	0.990	3.417	-3.09 ^b	
		3-3	4.37	5084.7555	5083.3386	0.0	19666.629 ^A	0	0.958	3.396	-2.96 ^b	
		2-1	4.05	5081.1560	5079.7400	0.0	19680.561 ^A	0	0.990	3.430	-3.22 ^b	
		4-4	4.59	5053.0431	5051.6345	-0.3	19790.055 ^A	1	0.915	3.368	-2.80 ^b	
		3-2	4.25	5042.4773	5041.0716	0.0	19831.522 ^A	0	0.958	3.417	-3.09 ^a	
		5-5	4.81	5013.4664	5012.0684	0.0	19946.279 ^A	0	0.859	3.332	-2.64 ^b	
		4-3	4.27	4995.5228	4994.1295	0.0	20017.925 ^A	0	0.915	3.396	-3.08 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
90	$\alpha^5F-z^5P^o$ (17)	5-4	4.07	4941.0654	4939.6867	-0.2	20238.550 ^A	1	0.859	3.368	-3.34 ^b	I
		1-2	2.00	4691.6823	4690.3697	-1.8	21314.316 ^D	8	1.011	3.654	-5.23 ^b	
		3-3	2.23	4688.6148	4687.3030	0.4	21328.261 ^B	-2	0.958	3.602	...	
91	$\alpha^5F-z^3F^o$ (18)	2-2	1.90	4654.7933	4653.4904	1.3	21483.231 ^C	-6	0.990	3.654	...	II
		2-3	2.68	4198.2797	4197.0971	0.9	23819.280 ^D	-5	0.990	3.943	...	
		4-4	4.11	4178.7713	4177.5939	-0.2	23930.479 ^A	1	0.915	3.881	-3.06 ^b	
		3-3	3.89	4153.3400	4152.1692	0.2	24077.008 ^A	-1	0.958	3.943	-3.23 ^b	
		2-2	3.47	4141.0949	4139.9273	0.2	24148.203 ^A	-1	0.990	3.984	-3.63 ^b	
		5-4	4.00	4101.8952	4100.7379	0.0	24378.975 ^A	0	0.859	3.881	-3.18 ^b	
92	$\alpha^5F-z^3D^o$ (19)	3-2	2.67	4097.3664	4096.2102	1.5	24405.921 ^B	-9	0.958	3.984	...	II
		1-2	2.50	4249.5986	4248.4026	0.2	23531.634 ^B	-1	1.011	3.928	...	
		3-3	2.73	4238.2672	4237.0742	0.5	23594.548 ^B	-3	0.958	3.883	-4.38 ^b	
		1-1	3.02	4204.7521	4203.5678	-0.9	23782.615 ^A	5	1.011	3.960	-3.87 ^a	
		4-3	4.13	4176.0898	4174.9131	0.2	23945.845 ^A	-1	0.915	3.883	-2.97 ^b	
		2-1	3.65	4175.0972	4173.9207	0.0	23951.538 ^A	0	0.990	3.960	-3.29 ^a	
93	$\alpha^5F-y^5D^o$ (20)	3-2	4.06	4173.9209	4172.7448	0.3	23958.288 ^A	-2	0.958	3.928	-3.07 ^b	R
		3-4	4.00	3941.9931	3940.8776	0.2	25367.878 ^A	-1	0.958	4.103	-2.60 ^b	
		2-3	4.28	3918.2903	3917.1810	0.2	25521.335 ^A	-1	0.990	4.154	-2.16 ^b	
		1-2	4.29	3899.1133	3898.0089	-0.2	25646.857 ^A	1	1.011	4.191	-2.04 ^a	
		4-4	5.40	3888.1498	3887.0482	0.0	25719.174 ^A	0	0.915	4.103	-1.14 ^b	
		3-3	5.44	3879.1174	3878.0182	0.2	25779.060 ^A	-1	0.958	4.154	-0.91 ^b	
		2-2	5.37	3873.5989	3872.5012	0.0	25815.786 ^A	0	0.990	4.191	-0.93 ^b	
		1-1	5.25	3866.6190	3865.5231	0.0	25862.388 ^A	0	1.011	4.217	-0.98 ^b	
		1-0	5.31	3851.0585	3849.9666	0.1	25966.887 ^A	-1	1.011	4.230	-0.87 ^b	
		2-1	5.58	3841.5269	3840.4375	0.1	26031.316 ^A	-1	0.990	4.217	-0.51 ^b	
		3-2	5.77	3835.3102	3834.2225	0.0	26073.510 ^A	0	0.958	4.191	-0.30 ^b	
		4-3	5.88	3826.9668	3825.8812	0.1	26130.355 ^A	-1	0.915	4.154	-0.04 ^b	
		5-4	...	3821.5094	3820.4252	...	26167.671 ^A	...	0.859	4.103	0.12 ^b	
94	$\alpha^5F-y^5F^o$ (21)	3-4	5.50	3800.6263	3799.5475	0.1	26311.453 ^A	-1	0.958	4.220	-0.85 ^b	R
		4-5	5.40	3799.5899	3798.5114	0.0	26318.630 ^A	0	0.915	4.178	-1.11 ^b	
		2-3	5.49	3796.0798	3795.0022	0.0	26342.966 ^A	0	0.990	4.256	-0.76 ^b	
		1-2	5.35	3788.9559	3787.8802	0.0	26392.495 ^A	0	1.011	4.283	-0.86 ^b	
		1-1	5.66	3768.2621	3767.1918	0.0	26537.432 ^A	0	1.011	4.301	-0.39 ^b	
		2-2	5.77	3764.8585	3763.7891	0.1	26561.423 ^A	-1	0.990	4.283	-0.24 ^b	
		3-3	5.87	3759.3010	3758.2330	0.0	26600.690 ^A	0	0.958	4.256	-0.03 ^b	
		4-4	6.06	3750.5511	3749.4854	0.1	26662.748 ^A	-1	0.915	4.220	0.16 ^b	
		2-1	5.39	3744.4263	3743.3621	0.1	26706.361 ^A	-1	0.990	4.301	-0.79 ^b	
		5-5	...	3735.9258	3734.8638	...	26767.127 ^A	...	0.859	4.178	0.32 ^b	
		3-2	5.55	3728.6791	3727.6190	0.1	26819.149 ^A	-1	0.958	4.283	-0.63 ^b	
		4-3	5.60	3710.3017	3709.2464	-0.1	26951.986 ^A	1	0.915	4.256	-0.65 ^b	
		5-4	5.55	3688.5064	3687.4567	0.1	27111.245 ^A	-1	0.859	4.220	-0.83 ^b	
95	$\alpha^5F-z^3P^o$ (22)	1-2	3.86	3877.1386	3876.0400	0.0	25792.217 ^A	0	1.011	4.209	-2.89 ^a	I
		2-2	4.96	3851.9099	3850.8179	0.0	25961.147 ^A	0	0.990	4.209	-1.73 ^b	
		1-1	4.45	3815.6058	3814.5232	0.0	26208.158 ^A	0	1.011	4.260	-2.39 ^b	
		3-2	5.60	3814.0468	3812.9645	0.0	26218.871 ^A	0	0.958	4.209	-1.05 ^a	
		2-1	5.08	3791.1692	3790.0929	0.0	26377.087 ^A	0	0.990	4.260	-1.76 ^b	
		1-0	4.62	3787.7522	3786.6768	0.0	26400.882 ^A	0	1.011	4.284	-2.23 ^b	
96	$\alpha^5F-z^5G^o$ (23)	4-5	5.99	3648.8822	3647.8428	0.1	27405.653 ^D	-1	0.915	4.312	-0.19 ^b	I
		3-4	6.06	3632.4984	3631.4632	0.1	27529.262 ^A	-1	0.958	4.371	0.04 ^b	
		2-3	5.92	3619.7998	3618.7679	0.1	27625.837 ^A	-1	0.990	4.415	0.00 ^a	
		1-2	5.86	3609.8887	3608.8593	0.1	27701.685 ^A	-1	1.011	4.445	-0.10 ^b	
		5-5	4.44	3590.1293	3589.1050	0.1	27854.150 ^A	-1	0.859	4.312	-2.12 ^b	
		2-2	5.43	3588.0085	3586.9848	0.1	27870.614 ^A	-1	0.990	4.445	-0.80 ^a	
		4-4	5.22	3586.7288	3585.7054	0.0	27880.558 ^A	0	0.915	4.371	-1.19 ^b	
		3-3	5.46	3586.3422	3585.3189	0.1	27883.563 ^A	-1	0.958	4.415	-0.80 ^a	
		5-6	...	3582.2153	3581.1930	...	27915.687 ^A	...	0.859	4.320	0.41 ^b	
		3-2	4.03	3555.1335	3554.1182	0.3	28128.339 ^A	-2	0.958	4.445	-2.21 ^a	
		4-3	3.66	3541.7215	3540.7097	0.1	28234.857 ^A	-1	0.915	4.415	-2.49 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
97	$a^5F-z^3G^o$ (24)	4-5	...	3571.1171	3570.0977	...	28002.442 ^A	...	0.915	4.386	0.15 ^b	R
		3-4	5.88	3566.3971	3565.3790	0.1	28039.502 ^A	-1	0.958	4.434	-0.13 ^a	
		2-3	5.58	3559.5315	3558.5151	0.1	28093.585 ^A	-1	0.990	4.473	-0.63 ^a	
		3-3	5.00	3527.1739	3526.1658	0.1	28351.310 ^A	-1	0.958	4.473	-1.27 ^a	
		4-4	5.31	3522.2680	3521.2612	-0.1	28390.798 ^D	1	0.915	4.434	-0.99 ^a	Ar
		5-5	5.28	3514.8229	3513.8180	0.1	28450.936 ^A	-1	0.859	4.386	-1.16 ^b	
		4-3	3.52	3484.0041	3483.0071	-0.2	28702.607 ^B	2	0.915	4.473	-2.73 ^a	
		5-4	3.45	3467.4915	3466.4988	0.1	28839.292 ^B	-1	0.859	4.434	...	
98	$a^5F-y^3F^o$ (25)	3-4	4.37	3453.2637	3452.2746	0.1	28958.113 ^A	-1	0.958	4.548	-1.92 ^a	
		2-3	4.12	3427.3649	3426.3825	2.9	29176.934 ^D	-25	0.990	4.607	-1.91 ^a	I
		4-4	2.87	3411.8738	3410.8953	0.1	29309.408 ^B	-1	0.915	4.548	-3.31 ^a	
		1-2	3.51	3405.2470	3404.2702	-0.1	29366.445 ^A	1	1.011	4.652	-2.58 ^a	
		3-3	2.34	3397.3514	3396.3767	-1.0	29434.694 ^D	9	0.958	4.607	...	
		5-4	3.07	3360.4517	3359.4864	0.2	29757.904 ^B	-2	0.859	4.548	...	
		4-3	2.60	3357.2771	3356.3125	-7.1	29786.043 ^D	63	0.915	4.607	...	Ne
99	$a^5F-y^5P^o$ (26)	3-3	3.48	3443.6557	3442.6690	-0.4	29038.908 ^B	3	0.958	4.558	-2.66 ^a	
		2-2	3.14	3427.9706	3426.9880	0.1	29171.779 ^B	-1	0.990	4.607	-2.60 ^a	
		1-1	2.73	3418.2364	3417.2563	-1.6	29254.852 ^D	14	1.011	4.638	-3.39 ^b	
		4-3	3.90	3402.4948	3401.5187	0.0	29390.199 ^A	0	0.915	4.558	-2.06 ^a	
		2-1	2.60	3398.6133	3397.6382	0.2	29423.765 ^C	-2	0.990	4.638	-3.17 ^a	
		3-2	3.42	3397.9505	3396.9755	0.0	29429.505 ^A	0	0.958	4.607	-2.43 ^a	
100	$a^5F-y^3D^o$ (27)	2-2	...	3258.151	3257.212	...	30692.252 ^D	...	0.990	4.795	...	M I
		4-3	3.07	3246.9022	3245.9657	0.1	30798.587 ^B	-1	0.915	4.733	-2.77 ^a	
		1-1	0	3242.443	3241.508	8.4	30840.94 ^D	-80	1.011	4.835	...	I
		3-2	2	3231.028	3230.096	7.3	30949.90 ^D	-70	0.958	4.795	...	
		2-1	1	3224.773	3223.843	1.0	31009.93 ^D	-10	0.990	4.835	...	
101	$a^5F-x^5D^o$ (28)	3-4	3.76	3135.0182	3134.1100	0.1	31897.741 ^A	-1	0.958	4.913	-1.98 ^a	
		2-3	3.79	3126.5566	3125.6505	-0.3	31984.068 ^A	3	0.990	4.955	-1.66 ^a	
		1-2	3.61	3117.5354	3116.6315	-0.1	32076.621 ^A	1	1.011	4.988	-1.65 ^a	
		3-3	4.58	3101.5648	3100.6650	0.0	32241.790 ^A	0	0.958	4.955	-0.87 ^a	
		2-2	4.45	3101.2032	3100.3035	0.0	32245.549 ^A	0	0.990	4.988	-0.87 ^a	
		4-4	4.68	3100.8678	3099.9682	0.0	32249.037 ^A	0	0.915	4.913	-0.97 ^a	
		1-1	4.25	3100.7941	3099.8945	-0.1	32249.803 ^A	1	1.011	5.009	-1.08 ^a	
		1-0	4.15	3092.4740	3091.5765	-0.1	32336.569 ^A	1	1.011	5.020	-1.10 ^a	
		2-1	4.41	3084.6365	3083.7409	-0.1	32418.731 ^A	1	0.990	5.009	-0.88 ^a	
		3-2	4.62	3076.6131	3075.7196	0.0	32503.274 ^A	0	0.958	4.988	-0.65 ^a	
		4-3	4.83	3068.1354	3067.2439	-0.1	32593.086 ^A	1	0.915	4.955	-0.51 ^a	
		5-4	5.08	3058.3348	3057.4458	0.0	32697.532 ^A	0	0.859	4.913	-0.40 ^a	
102	$a^5F-y^7P^o$ (29)	2-2	2.88	3118.5441	3117.6401	0.2	32066.245 ^B	-2	0.990	4.966	-3.50 ^a	
		2-3	2.66	3103.5370	3102.6367	0.3	32221.301 ^C	-3	0.990	4.985	-3.52 ^a	
		3-2	3.13	3093.6795	3092.7817	0.3	32323.969 ^B	-3	0.958	4.966	-3.22 ^a	
		3-3	3.50	3078.9099	3078.0157	0.1	32479.028 ^A	-1	0.958	4.985	-2.51 ^a	
		3-4	2.59	3058.6775	3057.7884	0.6	32693.869 ^C	-6	0.958	5.012	...	
		4-3	3.53	3045.9643	3045.0784	-0.2	32830.326 ^A	2	0.915	4.985	-2.17 ^a	
		4-4	3.28	3026.1609	3025.2800	0.1	33045.169 ^B	-1	0.915	5.012	-2.69 ^a	
		5-4	3.39	2985.6390	2984.7681	-0.2	33493.668 ^A	2	0.859	5.012	-2.51 ^a	
103	$a^5F-x^5F^o$ (30)	2-3	3.98	3043.5501	3042.6649	-0.1	32856.367 ^A	1	0.990	5.064	-1.30 ^a	
		1-2	3.68	3042.9047	3042.0196	-0.1	32863.336 ^A	1	1.011	5.085	-1.49 ^a	
		3-4	4.14	3042.6238	3041.7388	-0.1	32866.370 ^A	1	0.958	5.033	-1.19 ^a	
		4-5	4.22	3041.3120	3040.4273	0.0	32880.546 ^A	0	0.915	4.991	-1.43 ^a	
		1-1	4.02	3032.5192	3031.6366	-0.2	32975.884 ^A	2	1.011	5.099	-1.24 ^a	
		2-2	4.19	3027.3431	3026.4619	-0.1	33032.265 ^A	1	0.990	5.085	-1.12 ^a	
		3-3	4.42	3019.8624	3018.9830	-0.1	33114.092 ^A	1	0.958	5.064	-1.01 ^a	
		2-1	3.73	3017.0633	3016.1847	-0.1	33144.813 ^A	1	0.990	5.099	-1.44 ^a	
		4-4	4.72	3010.4463	3009.5693	-0.1	33217.666 ^A	1	0.915	5.033	-0.76 ^a	
		3-2	3.99	3003.9061	3003.0307	-0.1	33289.989 ^A	1	0.958	5.085	-1.30 ^a	
		5-5	5.05	3000.3863	2999.5118	0.1	33329.042 ^A	-1	0.859	4.991	-0.60 ^a	
		4-3	4.09	2988.1621	2987.2906	-0.1	33465.387 ^A	1	0.915	5.064	-1.31 ^a	
		5-4	4.05	2970.3416	2969.4746	-0.1	33666.161 ^A	1	0.859	5.033	-1.60 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
104	$a^5F-z^5S^\circ$ (31)	1-2	2.39	3054.3414	3053.4535	-0.7	32740.282 ^D	8	1.011	5.070	-3.09 ^a	
		2-2	2.93	3038.6637	3037.7796	0.0	32909.203 ^B	0	0.990	5.070	-2.62 ^a	
		3-2	3.00	3015.0515	3014.1734	-0.1	33166.929 ^B	1	0.958	5.070	-2.76 ^a	
105	$a^5F-x^5P^\circ$ (UV43)	2-3	2.52	2894.6109	2893.7627	-0.3	34546.957 ^B	4	0.990	5.273	-2.81 ^a	
		1-2	2.32	2881.4244	2880.5793	0.3	34705.058 ^C	-4	1.011	5.314	...	
		3-3	3.40	2873.1769	2872.3339	0.0	34804.679 ^A	0	0.958	5.273	-1.77 ^a	
		2-2	3.17	2867.4665	2866.6249	-0.1	34873.991 ^A	1	0.990	5.314	-1.91 ^a	
		1-1	2.88	2863.3353	2862.4947	0.0	34924.307 ^B	0	1.011	5.341	-2.37 ^a	
		2-1	3.08	2849.5519	2848.7147	-0.2	35093.237 ^A	2	0.990	5.341	-2.01 ^a	
		3-2	3.54	2846.4312	2845.5947	0.2	35131.712 ^D	-3	0.958	5.314	-1.32 ^a	II
		4-3	3.71	2844.4668	2843.6308	0.0	35155.974 ^A	0	0.915	5.273	-1.23 ^a	
106	$a^5F-y^5G^\circ$ (UV44)	1-2	4.18	2852.6349	2851.7969	-0.2	35055.310 ^A	2	1.011	5.357	-0.69 ^a	
		2-3	4.20	2844.8125	2843.9764	-0.2	35151.702 ^A	3	0.990	5.348	-0.57 ^a	
		2-2	3.67	2838.9541	2838.1195	-0.2	35224.240 ^A	2	0.990	5.357	-1.11 ^a	
		3-4	4.16	2833.2687	2832.4355	0.0	35294.923 ^A	0	0.958	5.334	-0.59 ^a	
		3-3	3.68	2824.1067	2823.2757	-0.2	35409.427 ^A	2	0.958	5.348	-0.90 ^a	
		3-2	2.64	2818.3334	2817.5038	0.0	35481.963 ^B	0	0.958	5.357	-2.05 ^a	
		4-5	4.08	2814.1150	2813.2864	-0.2	35535.151 ^A	2	0.915	5.320	-0.35 ^a	
		4-4	3.43	2805.3467	2804.5203	-0.1	35646.218 ^A	1	0.915	5.334	-0.95 ^a	
		4-3	2.81	2796.3642	2795.5400	-0.1	35760.721 ^A	1	0.915	5.348	-1.93 ^a	
		5-6	3.66	2788.9272	2788.1048	0.0	35856.081 ^A	0	0.859	5.304	-0.05 ^a	
		5-5	3.96	2779.0402	2778.2203	0.0	35983.646 ^B	0	0.859	5.320	-0.94 ^a	
		5-4	2.74	2770.4872	2769.6693	-1.7	36094.735 ^A	22	0.859	5.334	-2.13 ^a	
107	$a^5F-z^5I^\circ$	3-4	2.98	2799.9720	2799.1469	-0.1	35714.643 ^D	1	0.958	5.386	...	II
		5-6	3.43	2779.6624	2778.8423	-0.2	35975.592 ^A	2	0.859	5.319	...	
		4-4	2.68	2772.6994	2771.8810	0.1	36065.936 ^A	-1	0.915	5.386	...	
		4-5	1	2771.357	2770.539	-3.1	36083.40 ^D	40	0.915	5.388	...	
		5-4	3.33	2738.6430	2737.8329	0.0	36514.434 ^A	0	0.859	5.386	...	
		5-5	2.40	2737.3372	2736.5274	-0.3	36531.853 ^B	4	0.859	5.388	...	
108	$a^5F-z^5H^\circ$ (UV45)	2-3	3.30	2829.6405	2828.8082	-0.1	35340.178 ^A	1	0.990	5.372	-1.80 ^a	
		3-4	3.98	2826.3872	2825.5557	-0.2	35380.856 ^A	2	0.958	5.345	-0.85 ^a	
		3-3	2.97	2809.1543	2808.3270	-0.1	35597.902 ^A	1	0.958	5.372	-2.43 ^a	
		4-5	3.80	2807.8111	2806.9842	-0.2	35614.931 ^A	2	0.915	5.330	-0.83 ^a	
		4-4	3.86	2798.6001	2797.7753	-0.1	35732.151 ^A	1	0.915	5.345	-1.32 ^a	
		4-3	2.19	2781.7025	2780.8818	-0.9	35949.208 ^B	12	0.915	5.372	-3.23 ^a	
		5-5	3.57	2772.8925	2772.0740	0.1	36063.425 ^A	-1	0.859	5.330	-1.53 ^a	
		5-4	...	2763.909	2763.092	...	36180.646 ^D	...	0.859	5.345	...	MI
109	$a^5F-w^5D^\circ$ (UV46)	5-6	4.24	2747.7944	2746.9820	0.0	36392.825 ^D	0	0.859	5.371	...	II
		3-4	2.60	2795.5261	2794.7021	0.0	35771.442 ^B	0	0.958	5.393	-1.94 ^a	
		2-3	2.81	2782.6565	2781.8356	-0.2	35936.883 ^A	2	0.990	5.446	-1.74 ^a	
		1-2	2.67	2775.5490	2774.7299	0.3	36028.908 ^D	-4	1.011	5.478	-1.82 ^a	II
		3-3	3.56	2762.8426	2762.0266	-0.1	36194.606 ^B	1	0.958	5.446	-0.85 ^a	
		2-2	3.42	2762.5958	2761.7798	0.1	36197.840 ^A	-1	0.990	5.478	-0.96 ^a	
		1-1	3.36	2758.1304	2757.3155	0.0	36256.444 ^B	0	1.011	5.506	-1.01 ^a	
		1-0	3.18	2754.5009	2753.6869	0.0	36304.218 ^B	0	1.011	5.512	-1.34 ^a	
		2-1	3.29	2745.3392	2744.5275	0.2	36425.371 ^B	-2	0.990	5.506	-1.07 ^a	
		3-2	3.63	2743.0654	2742.2542	0.1	36455.565 ^A	-1	0.958	5.478	-0.72 ^a	
110	$a^5F-w^5D^\circ$ (UV48)	4-3	3.91	2736.2849	2735.4753	-0.1	36545.902 ^A	2	0.915	5.446	-0.40 ^a	
		5-4	4.18	2734.3896	2733.5805	0.0	36571.233 ^A	0	0.859	5.393	-0.15 ^a	
		2-3	3.55	2763.9258	2763.1095	-0.2	36180.421 ^A	3	0.990	5.476	-1.58 ^a	
		3-4	3.25	2755.2414	2754.4273	0.2	36294.460 ^A	-2	0.958	5.458	-1.78 ^a	
		3-3	3.44	2744.3770	2743.5654	0.1	36438.143 ^A	-1	0.958	5.476	-1.42 ^a	
		1-2	2.16	2739.0236	2738.2133	-0.2	36509.361 ^B	2	1.011	5.537	-2.64 ^a	
		1-1	2.91	2731.7904	2730.9819	0.1	36606.029 ^A	-1	1.011	5.549	-1.68 ^a	
		4-4	3.50	2728.8287	2728.0210	-0.1	36645.759 ^A	1	0.915	5.458	-1.46 ^a	
		1-0	3.20	2726.8626	2726.0553	0.1	36672.181 ^B	-2	1.011	5.558	-1.21 ^a	
		2-2	2.16	2726.4091	2725.6019	0.5	36678.281 ^B	-7	0.990	5.537	-2.56 ^a	
		2-1	3.53	2719.2417	2718.4363	0.1	36774.958 ^A	-1	0.990	5.549	-0.90 ^a	
		4-3	2.22	2718.1715	2717.3663	0.1	36789.437 ^B	-1	0.915	5.476	-2.83 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
111	$a^5F-w^5F^o$ (UV47)	3-2	3.81	2707.3845	2706.5819	-0.3	36936.017 ^A	4	0.958	5.537	-0.83 ^a	I
		5-4	2.72	2695.8353	2695.0355	-0.1	37094.254 ^A	1	0.859	5.458	-2.33 ^a	
		1-2	3.35	2767.7263	2766.9091	-0.2	36130.740 ^A	2	1.011	5.491	-1.63 ^a	
		1-1	3.24	2760.6293	2759.8138	0.1	36223.625 ^B	-1	1.011	5.502	-1.58 ^a	
		2-2	3.40	2754.8461	2754.0321	-0.2	36299.668 ^A	2	0.990	5.491	-1.38 ^a	
		3-2	2.65	2735.4246	2734.6152	-0.4	36557.396 ^A	5	0.958	5.491	-2.27 ^a	
		2-3	2.99	2734.8147	2734.0055	0.0	36565.548 ^A	0	0.990	5.523	-1.76 ^a	
		3-4	3.42	2725.7603	2724.9532	0.0	36687.012 ^D	0	0.958	5.507	-1.32 ^a	
		3-3	2.68	2715.6739	2714.8693	0.0	36823.273 ^A	0	0.958	5.523	-2.19 ^a	
		4-5	3.49	2712.4590	2711.6552	0.1	36866.917 ^A	-1	0.915	5.485	-1.22 ^a	
		4-4	3.45	2699.9075	2699.1067	0.1	37038.306 ^A	-1	0.915	5.507	-1.26 ^a	
		4-3	3.74	2690.0107	2689.2122	-0.4	37174.574 ^D	6	0.915	5.523	-0.89 ^a	
		5-5	3.91	2679.8578	2679.0618	0.0	37315.413 ^A	0	0.859	5.485	-0.75 ^a	
		2-1	...	2747.815	2747.002	...	36392.555 ^D	...	0.990	5.502	...	
		5-4	3.56	2667.6055	2666.8125	0.0	37486.802 ^A	0	0.859	5.507	-1.07 ^a	
112	$a^5F-y^5S^o$ (UV49)	1-2	1.85	2750.4957	2749.6827	1.0	36357.083 ^B	-13	1.011	5.519	-2.56 ^a	II
		2-2	3.57	2737.7761	2736.9661	2.0	36525.997 ^D	-27	0.990	5.519	...	
		3-2	2.65	2718.5918	2717.7865	0.0	36783.749 ^A	0	0.958	5.519	-1.97 ^a	
113	$a^5F-x^3D^o$ (UV50)	1-2	1.98	2693.4495	2692.6503	0.4	37127.111 ^C	-5	1.011	5.614	-2.66 ^a	II
		2-3	1.82	2685.6534	2684.8560	0.4	37234.887 ^C	-6	0.990	5.606	-2.85 ^a	
		2-2	2.65	2681.2494	2680.4531	0.0	37296.046 ^A	0	0.990	5.614	-1.73 ^a	
		1-1	2.36	2674.0078	2673.2132	0.1	37397.049 ^A	-2	1.011	5.648	-2.14 ^a	
		3-3	2.25	2667.1916	2666.3986	-0.1	37492.620 ^A	1	0.958	5.606	-1.87 ^a	
		3-2	2.76	2662.8485	2662.0566	0.1	37553.770 ^B	-1	0.958	5.614	-1.61 ^a	
		2-1	2.09	2661.9850	2661.1933	2.0	37565.952 ^B	-28	0.990	5.648	...	
		4-3	2.94	2642.4308	2641.6438	-2.0	37843.943 ^D	29	0.915	5.606	-1.32 ^a	
114	$a^5F-y^3G^o$ (UV51)	2-3	2.64	2661.1887	2660.3972	-0.4	37577.193 ^A	6	0.990	5.649	-2.33 ^a	II
		3-4	2.64	2652.4956	2651.7062	-0.4	37700.345 ^A	6	0.958	5.632	-2.04 ^a	
		3-3	0	2643.064	2642.277	2.1	37834.88 ^D	-30	0.958	5.649	...	
		4-5	2.69	2637.2644	2636.4786	-0.1	37918.079 ^B	1	0.915	5.616	-2.05 ^a	
		4-4	1.88	2628.0078	2627.2242	-0.2	38051.638 ^B	3	0.915	5.632	-2.99 ^a	
		5-5	3.39	2606.4357	2605.6573	0.2	38366.571 ^B	-3	0.859	5.616	-1.79 ^a	
		5-4	1.66	2597.3923	2596.6161	-1.5	38500.152 ^D	22	0.859	5.632	-3.28 ^a	
115	$a^5F-x^5G^o$ (UV52)	1-2	3.06	2644.7862	2643.9986	0.0	37810.240 ^A	0	1.011	5.699	-0.91 ^a	II
		2-3	3.32	2636.5944	2635.8088	-0.3	37927.714 ^A	4	0.990	5.692	-0.81 ^a	
		2-2	3.22	2633.0224	2632.2376	0.1	37979.168 ^A	-1	0.990	5.699	-1.20 ^a	
		3-4	3.52	2624.3166	2623.5339	0.1	38105.159 ^A	-2	0.958	5.682	-0.70 ^a	
		3-3	3.33	2618.7994	2618.0180	-0.1	38185.437 ^A	2	0.958	5.692	-0.97 ^a	
		3-2	2.45	2615.2752	2614.4946	0.1	38236.894 ^A	-1	0.958	5.699	-2.04 ^a	
		4-5	3.70	2607.6050	2606.8263	-0.2	38349.366 ^A	3	0.915	5.669	-0.56 ^a	
		4-4	3.40	2600.3439	2599.5669	0.3	38456.452 ^A	-4	0.915	5.682	-0.87 ^a	
		4-3	2.33	2594.9267	2594.1510	-0.3	38536.734 ^A	5	0.915	5.692	-1.88 ^a	
		5-6	3.96	2585.3095	2584.5360	0.1	38680.089 ^A	-1	0.859	5.655	-0.39 ^a	
		5-5	3.41	2577.4617	2576.6902	-0.1	38797.860 ^A	1	0.859	5.669	-0.91 ^a	
		5-4	2.43	2570.3669	2569.5970	-0.1	38904.952 ^A	1	0.859	5.682	-2.05 ^a	
116	$a^5F-z^3I^o$ (UV53)	4-5	2.47	2580.0424	2579.2702	0.0	38759.053 ^A	0	0.915	5.720	-2.46 ^a	II
		5-6	3.01	2557.6298	2556.8629	0.0	39098.700 ^A	0	0.859	5.706	-2.02 ^a	
117	$a^5F-w^5P^o$	1-2	0	2620.630	2619.848	4.1	38158.76 ^D	-60	1.011	5.742	...	II
		2-2	0?	2609.076	2608.297	0.0	38327.75 ^D	0	0.990	5.742	...	
		3-2	0?	2591.654	2590.879	4.7	38585.40 ^D	-70	0.958	5.742	...	
118	$a^5F-z^3S^o$	1-1	2.77	2601.0474	2600.2703	3.5	38446.050 ^A	-52	1.011	5.778	...	II
		2-1	0	2589.666	2588.891	0.7	38615.02 ^D	-10	0.990	5.778	...	
119	$a^5F-y^3P^o$ (UV54)	1-0	4	2596.204	2595.428	2.7	38517.78 ^D	-40	1.011	5.786	...	II
		1-2	0	2592.532	2591.757	1.3	38572.33 ^D	-20	1.011	5.793	...	
		2-2	1.84	2581.2252	2580.4528	-0.3	38741.292 ^B	5	0.990	5.793	...	
		1-1	1.87	2580.8372	2580.0648	-0.1	38747.117 ^B	2	1.011	5.815	...	
		2-1	2.14	2569.6345	2568.8647	0.2	38916.041 ^B	-3	0.990	5.815	-2.22 ^a	
		3-2	2.14	2564.1673	2563.3989	-0.3	38999.015 ^A	4	0.958	5.793	-2.26 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
120	$a^5F-u^5D^o$ (UV55)	1-2	1.56	2581.7235	2580.9509	-0.9	38733.815 ^C	14	1.011	5.813	...	M I
		2-3	...	2580.032	2579.260	...	38759.206 ^D	...	0.990	5.795	...	
		2-2	2.08	2570.5136	2569.7436	-0.2	38902.732 ^B	3	0.990	5.813	-2.24 ^a	
		1-0	8	2562.997	2562.228	-0.7	39016.83 ^D	10	1.011	5.848	...	
		3-3	2.35	2562.9931	2562.2249	3.2	39016.883 ^B	-48	0.958	5.795	...	
		1-1	2.02	2562.6232	2561.8551	0.2	39022.514 ^B	-3	1.011	5.849	-2.31 ^a	
		3-2	2.20	2553.5966	2552.8307	0.1	39160.453 ^B	-1	0.958	5.813	-2.16 ^a	
		2-1	1.85	2551.5767	2550.8112	-0.5	39191.454 ^B	7	0.990	5.849	...	
		4-4	1.88	2541.6787	2540.9155	-0.1	39344.076 ^B	1	0.915	5.792	...	
		4-3	2.32	2540.1197	2539.3569	0.1	39368.224 ^A	-1	0.915	5.795	-1.79 ^a	
		5-4	2.73	2513.0319	2512.2754	-0.1	39792.571 ^A	1	0.859	5.792	-1.73 ^a	
121	$a^5F-z^3F^o$ (UV56)	1-2	2.28	2561.3250	2560.5573	0.1	39042.292 ^D	-1	1.011	5.851	-2.11 ^a	II
		2-2	1.97	2550.2905	2549.5253	0.3	39211.219 ^B	-4	0.990	5.851	-2.49 ^a	
		3-3	1.83	2540.3499	2539.5871	-0.4	39364.656 ^B	6	0.958	5.839	...	
		3-2	1.78	2533.6374	2532.8761	0.0	39468.947 ^A	0	0.958	5.851	-2.16 ^a	II
		4-3	12	2517.885	2517.127	3.8	39715.88 ^D	-60	0.915	5.839	...	
		5-4	2.91	2502.4480	2501.6940	0.0	39960.870 ^D	0	0.859	5.813	-1.51 ^a	II
122	$a^5F-z^3H^o$ (UV57)	3-4	2.16	2539.4620	2538.6993	0.1	39378.420 ^B	-1	0.958	5.840	-2.62 ^a	II
		4-5	2.77	2523.2388	2522.4799	-0.1	39631.604 ^A	1	0.915	5.828	-1.92 ^a	
		4-4	2.06	2517.0080	2516.2506	0.4	39729.711 ^D	-6	0.915	5.840	-2.50 ^a	
		5-6	13	2496.625	2495.873	-1.2	40054.07 ^D	20	0.859	5.825	-1.76 ^a	
		5-5	2.73	2495.0038	2494.2515	0.0	40080.100 ^A	0	0.859	5.828	-1.95 ^a	
		5-4		2488.911	2488.160	0.0	40178.213 ^D	0	0.859	5.840	...	
123	$a^5F-w^3D^o$ (UV58)	1-2	2.25	2565.3281	2564.5594	0.0	38981.368 ^B	0	1.011	5.844	-2.15 ^a	II
		2-3	1.83	2562.0399	2561.2719	0.1	39031.399 ^B	-1	0.990	5.829	...	
		1-1	1.68	2556.4133	2555.6466	0.3	39117.306 ^C	-4	1.011	5.861	...	
		2-2	1.26	2554.2592	2553.4931	0.1	39150.294 ^C	-2	0.990	5.844	...	
		2-1	2.27	2545.4207	2544.6566	0.1	39286.237 ^A	-2	0.990	5.861	-2.08 ^a	
		3-3	4	2545.229	2544.465	-3.9	39289.19 ^D	60	0.958	5.829	...	
		3-2	8*	2537.563	2536.801	8.4	39407.89 ^D	-130	0.958	5.844	...	
		4-3	2.58	2522.6777	2521.9190	0.1	39640.419 ^A	-1	0.915	5.829	-1.79 ^a	
124	$a^5F-w^5G^o$ (UV59)	1-2	3.23	2520.3875	2519.6294	-0.1	39676.438 ^A	1	1.011	5.930	-1.20 ^a	I
		2-3	3.19	2518.4188	2517.6611	-0.1	39707.454 ^A	2	0.990	5.913	-0.98 ^a	
		2-2	1.67	2509.7008	2508.9451	-1.3	39845.387 ^D	21	0.990	5.930	...	
		3-4	3.69	2508.6557	2507.9003	-0.1	39861.986 ^A	1	0.958	5.900	-0.79 ^a	
		3-3	1.28	2502.1776	2501.4236	-0.8	39965.189 ^D	12	0.958	5.913	-2.99 ^a	
		4-5	3.78	2497.2866	2496.5338	0.0	40043.461 ^A	0	0.915	5.879	-0.66 ^a	
		3-2	1.32	2493.5724	2492.8205	-0.9	40103.106 ^C	15	0.958	5.930	...	
		4-4	2.90	2486.7406	2485.9903	0.0	40213.281 ^A	0	0.915	5.900	-1.61 ^a	
		4-3	2.11	2480.3769	2479.6280	1.0	40316.454 ^B	-17	0.915	5.913	-2.34 ^a	
		5-6	3.78	2473.0883	2472.3411	-6.6	40435.273 ^D	108	0.859	5.872	-1.07 ^a	
		5-5	3.85	2469.6263	2468.8799	0.0	40491.957 ^A	0	0.859	5.879	-0.62 ^a	
		5-4	2.46	2459.3128	2458.5688	0.7	40661.765 ^A	-11	0.859	5.900	-2.06 ^a	
125	$a^5F-Psp3^1D^o$ (UV60*)	2-2	7*	2535.890	2535.128	0.6	39433.89 ^D	-10	0.990	5.879	...	
		3-2	0?	2519.425	2518.667	1.3	39691.60 ^D	-20	0.958	5.879	...	
126	$a^5F-z^1G^o$ (UV61)	3-4	2.81	2517.3283	2516.5709	0.0	39724.655 ^A	0	0.958	5.883	-1.84 ^a	
		4-4	1.79	2495.2622	2494.5099	0.1	40075.948 ^B	-1	0.915	5.883	...	
		5-4	1	2467.643	2466.897	-3.0	40524.50 ^D	50	0.859	5.883	...	
127	$a^5F-v^5F^o$ (UV62)	1-2	2.70	2494.7532	2494.0010	0.3	40084.125 ^D	-5	1.011	5.981	-1.38 ^a	I
		2-3	3.48	2491.4598	2490.7084	1.8	40137.111 ^A	-29	0.990	5.966	...	
		1-1	3.27	2487.8165	2487.0659	-0.1	40195.890 ^A	1	1.011	5.995	-0.75 ^a	
		3-4	3.31	2487.4424	2486.6919	-0.1	40201.936 ^A	2	0.958	5.942	-0.91 ^a	
		4-5	1.15	2485.7473	2484.9972	-0.3	40229.351 ^C	5	0.915	5.902	...	
		2-2	3.24	2484.2832	2483.5334	-0.1	40253.060 ^A	1	0.990	5.981	-1.01 ^a	
		2-1	3.01	2477.4048	2476.6566	-0.1	40364.820 ^A	2	0.990	5.995	-1.08 ^a	
		3-3	3.41	2475.5621	2474.8144	0.0	40394.866 ^A	0	0.958	5.966	-0.40 ^a	
		3-2	3.12	2468.4797	2467.7335	1.2	40510.765 ^A	-19	0.958	5.981	...	
		4-4	3.84	2465.8948	2465.1492	-0.1	40553.231 ^A	1	0.915	5.942	-0.45 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
128	$a^5F-x^3G^o$ (UV63)	5-5	4.04	2458.3405	2457.5967	-0.3	40677.847 ^A	5	0.859	5.902	-0.32 ^a	
		4-3	2.89	2454.2188	2453.4760	-0.2	40746.163 ^A	3	0.915	5.966	-0.92 ^a	
		5-4	2.85	2438.9219	2438.1826	0.1	41001.723 ^A	-2	0.859	5.942	-1.25 ^a	
		2-3	2.80	2509.5089	2508.7533	0.0	39848.434 ^A	0	0.990	5.930	-1.95 ^a	
		3-4	2.70	2494.7532	2494.0010	-4.4	40084.125 ^D	70	0.958	5.928	...	I
		3-3	2.30	2493.3826	2492.6307	-0.1	40106.160 ^B	2	0.958	5.930	-2.46 ^a	
		4-4	3.78	2473.0883	2472.3411	4.8	40435.273 ^D	-78	0.915	5.928	-1.05 ^a	I
		4-5	2.96	2471.7123	2470.9654	-0.1	40457.783 ^A	1	0.915	5.931	-1.62 ^a	
		5-4	2.55	2445.9539	2445.2130	0.1	40883.845 ^A	-2	0.859	5.928	-2.02 ^a	
		5-5	3.20	2444.6124	2443.8718	-0.1	40906.280 ^A	2	0.859	5.931	-1.24 ^a	
		1-2	2	2499.450	2498.697	-4.4	40008.80 ^D	70	1.011	5.971	...	
		1-1	1.99	2491.5816	2490.8301	0.3	40135.150 ^D	-5	1.011	5.987	...	II
		2-1	1.68	2481.1384	2480.3894	0.3	40304.079 ^B	-5	0.990	5.987	...	
		3-2	16*	2473.079	2472.332	-1.8	40435.42 ^D	30	0.958	5.971	...	I
		2-3	d5	2469.754	2469.008	1.8	40489.86 ^D	-30	0.990	6.010	...	
130	$a^5F-y^5H^o$	3-4	1.52	2461.0038	2460.2594	-0.4	40633.826 ^C	6	0.958	5.996	...	
		3-3	1.58	2454.1284	2453.3855	-2.5	40747.665 ^C	41	0.958	6.010	...	
		4-5	0	2447.707	2446.966	-2.4	40854.56 ^D	40	0.915	5.980	...	
		5-6	3	2443.384	2442.644	1.8	40926.84 ^D	-30	0.859	5.933	...	
		4-4	2.10	2439.9101	2439.1706	-0.1	40985.116 ^B	1	0.915	5.996	...	
		4-3	1.95	2433.1554	2432.4174	1.3	41098.896 ^D	-22	0.915	6.010	...	II
		5-5	2.05	2421.1309	2420.3957	-0.2	41303.012 ^B	3	0.859	5.980	-2.99 ^a	
		5-4	1	2413.502	2412.769	2.9	41433.56 ^D	-50	0.859	5.996	...	
		1-2	2.84	2490.6646	2489.9133	-0.1	40149.927 ^A	1	1.011	5.989	-1.39 ^a	
		2-2	2.81	2480.2292	2479.4804	0.1	40318.854 ^D	-2	0.990	5.989	-1.01 ^a	I
131	$a^5F-x^3P^o$ (UV65)	1-1	2.11	2477.6138	2476.8656	0.4	40361.415 ^B	-7	1.011	6.015	-2.09 ^a	
		3-2	3.11	2464.4756	2463.7304	-0.1	40576.583 ^A	2	0.958	5.989	-1.13 ^a	
		5-5	I	2412.291	2411.558	-1.7	41454.37 ^D	30	0.859	5.998	...	
		4-4	1.72	2419.7980	2419.0630	0.2	41325.764 ^C	-4	0.915	6.038	...	
134	$a^5F-w^3F^o$ (UV67)	2-2	1.51	2412.6980	2411.9647	-1.9	41447.375 ^C	32	0.990	6.129	...	
		3-3	1.34	2408.7776	2408.0451	-0.5	41514.833 ^B	9	0.958	6.105	...	
		3-2	d0?	2397.792	2397.062	1.7	41705.03 ^D	-30	0.958	6.129	...	
		4-4	2.76	2396.2248	2395.4952	-10.5	41732.311 ^D	183	0.915	6.089	...	II
		4-3	2.19	2388.5753	2387.8474	9.0	41865.961 ^D	-157	0.915	6.105	...	II
135	$a^5F-v^3D^o$ (UV68)	1-2	1.78	2433.8059	2433.0677	-0.4	41087.911 ^B	7	1.011	6.105	...	
		1-1	2.13	2430.5520	2429.8145	0.1	41142.918 ^B	-1	1.011	6.112	...	
		2-3	d1*	2430.177	2429.439	-1.8	41149.27 ^D	30	0.990	6.092	...	
		2-2	2.11	2423.8411	2423.1052	0.2	41256.830 ^B	-3	0.990	6.105	...	
		2-1	1.62	2420.6138	2419.8786	0.7	41311.836 ^C	-12	0.990	6.112	...	
		3-2	1.71	2408.7934	2408.0610	-0.1	41514.560 ^C	2	0.958	6.105	...	
		4-3	0*	2394.738	2394.009	1.7	41758.22 ^D	-30	0.915	6.092	...	II
		3-3	0?	2376.585	2375.860	0.6	42077.18 ^D	-10	0.958	6.175	...	
136	$a^5F-n^7D^o$	3-2	d0?	2365.160	2364.437	1.1	42280.44 ^D	-20	0.958	6.200	...	
		4-3	d0	2356.911	2356.191	4.4	42428.41 ^D	-80	0.915	6.175	...	I
		5-4	1.99	2345.7458	2345.0275	5.4	42630.365 ^B	-98	0.859	6.144	...	
		4-5	0?	2368.114	2367.391	-1.7	42227.69 ^D	30	0.915	6.150	...	
137	$a^5F-y^3H^o$	5-6	2	2352.621	2351.901	5.5	42505.79 ^D	-100	0.859	6.129	...	
		5-5	I*	2343.226	2342.508	-2.7	42676.21 ^D	50	0.859	6.150	...	
		4-5	0?	2343.269	2342.551	0.0	42675.43 ^D	0	0.915	6.205	...	
138	$a^5F-n^7F^o$	4-4	4	2329.570	2328.855	3.8	42926.38 ^D	-70	0.915	6.237	...	
		5-5	1.70	2318.8992	2318.1869	0.6	43123.910 ^C	-12	0.859	6.205	...	
		4-3	2.76	2314.2754	2313.5641	2.1	43210.070 ^A	-40	0.915	6.272	...	
139	$a^5F-z^1F^o$	2-3	2.43	2291.8263	2291.1199	-1.9	43633.324 ^D	36	0.990	6.400	...	I
		4-5	2.07	2291.4809	2290.7746	-0.5	43639.902 ^B	10	0.915	6.325	...	
		3-4	1.75	2290.7723	2290.0662	-0.3	43653.400 ^D	5	0.958	6.370	...	II
140	$a^5F-u^5F^o$ (UV70)	2-3	2.43	2291.8263	2291.1199	-1.9	43633.324 ^D	36	0.990	6.400	...	I
		4-5	2.07	2291.4809	2290.7746	-0.5	43639.902 ^B	10	0.915	6.325	...	
		3-4	1.75	2290.7723	2290.0662	-0.3	43653.400 ^D	5	0.958	6.370	...	II

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		1-2	1.38	2289.7605	2289.0546	0.4	43672.690 ^B	-7	1.011	6.426	...	I
		1-1	1.45	2283.5690	2282.8644	-0.1	43791.101 ^B	1	1.011	6.440	...	
		2-2	1.58	2280.9373	2280.2333	0.0	43841.626 ^B	0	0.990	6.426	...	
		3-3	2.12	2278.3706	2277.6671	-0.1	43891.016 ^A	2	0.958	6.400	...	
		2-1	2.44	2274.7935	2274.0908	-0.2	43960.034 ^D	4	0.990	6.440	...	
		4-4	2.26	2272.4851	2271.7830	0.1	44004.688 ^A	-1	0.915	6.370	...	
		5-5	2.69	2268.1708	2267.4695	-0.2	44088.391 ^A	3	0.859	6.325	...	
		3-2	1.98	2267.6070	2266.9059	-0.1	44099.352 ^A	2	0.958	6.426	...	
		4-3	1.73	2260.2799	2259.5804	0.0	44242.308 ^B	0	0.915	6.400	...	
		5-4	2.10	2249.5574	2248.8602	-0.2	44453.189 ^A	4	0.859	6.370	...	
141	$a^5F-x^3H^o$ (UV72)	3-4	d0?	2289.322	2288.616	0.0	43681.06 ^D	0	0.958	6.374	...	II
		5-4	1.68	2248.1578	2247.4608	-0.6	44480.864 ^D	12	0.859	6.374	...	
142	$a^5F-t^5D^o$ (UV71)	3-4	1.53	2306.8837	2306.1740	2.2	43348.523 ^C	-42	0.958	6.332	...	
		2-3	2.52	2305.4445	2304.7351	1.0	43375.584 ^D	-19	0.990	6.368	...	
		1-2	1.43	2300.1573	2299.4491	-0.2	43475.288 ^C	3	1.011	6.401	...	
		3-3	2.43	2291.8263	2291.1199	0.2	43633.324 ^D	-4	0.958	6.368	...	
		2-2	2.02	2291.2544	2290.5482	-0.1	43644.215 ^A	1	0.990	6.401	...	
		1-1	2.10	2289.7368	2289.0309	-0.2	43673.141 ^A	4	1.011	6.426	...	
		4-4	2.16	2288.3368	2287.6312	-0.1	43699.861 ^A	1	0.915	6.332	...	
		1-0	1.76	2283.7919	2283.0873	-0.1	43786.826 ^B	2	1.011	6.440	...	
		2-1	1.81	2280.9140	2280.2100	-0.4	43842.073 ^B	7	0.990	6.426	...	II
		3-2	2.01	2277.8037	2277.1004	0.0	43901.939 ^B	0	0.958	6.401	1.16 ^b	
		4-3	2.13	2273.5217	2272.8193	-0.1	43984.625 ^D	2	0.915	6.368	...	
		5-4	2.46	2265.0899	2264.3893	-0.1	44148.359 ^A	2	0.859	6.332	...	
143	$a^5F-v^3F^o$	2-3	d0?	2305.241	2304.532	-52.6	43379.41 ^D	990	0.990	6.368	...	
		3-4	0	2294.814	2294.107	1.1	43576.52 ^D	-20	0.958	6.361	...	
		3-3	1.56	2291.6195	2290.9132	-0.7	43637.261 ^C	13	0.958	6.368	...	
		4-4	1	2276.461	2275.758	0.0	43927.84 ^D	0	0.915	6.361	...	
		4-3	1.32	2273.3192	2272.6169	0.0	43988.543 ^C	0	0.915	6.368	...	
		5-4	2	2253.450	2252.752	-3.0	44376.40 ^D	60	0.859	6.361	...	
144	$a^5F-u^5P^o$ (UV73)	2-3	1.66	2287.9985	2287.2930	-5.2	43706.322 ^D	99	0.990	6.409	...	II
		1-2	6	2283.626	2282.922	3.1	43790.00 ^D	-60	1.011	6.440	...	
		1-1	d0?	2275.006	2274.303	-2.1	43955.93 ^D	40	1.011	6.461	...	
		2-2	1*	2274.841	2274.138	-6.2	43959.12 ^D	120	0.990	6.440	...	
		3-3	0	2274.595	2273.892	3.1	43963.88 ^D	-60	0.958	6.409	...	
		2-1	1	2266.296	2265.595	-2.6	44124.87 ^D	50	0.990	6.461	...	
		3-2	1.52	2261.5871	2260.8873	-0.7	44216.736 ^B	14	0.958	6.440	...	
		4-3	2.06	2256.5598	2255.8611	-0.1	44315.245 ^A	2	0.915	6.409	...	
145	$a^5F-y^1D^o$	2-2	1	2287.149	2286.443	-2.1	43722.56 ^D	40	0.990	6.411	...	
146	$a^5F-u^3D^o$ (UV75)	2-2	d0?	2256.769	2256.070	0.0	44311.14 ^D	0	0.990	6.484	...	II
147	$a^5F-^2P4p^1P^o$	1-1	0	2271.380	2270.678	0.0	44026.10 ^D	0	1.011	6.469	...	
		2-1	1.45	2262.6970	2261.9970	-0.7	44195.046 ^D	14	0.990	6.469	...	I
148	$a^5F-t^3D^o$	3-3	0	2247.941	2247.244	0.5	44485.15 ^D	-10	0.958	6.473	...	
		1-2	1.58	2245.7699	2245.0735	2.2	44528.159 ^D	-43	1.011	6.532	...	
		2-1	0?	2228.561	2227.868	0.5	44872.00 ^D	-10	0.990	6.553	...	
		3-2	d0?	2224.459	2223.767	4.5	44954.76 ^D	-90	0.958	6.532	...	
149	$a^5F-^4F5p^3G^o$	4-5	0.95	2201.1785	2200.4915	1.1	45430.210 ^D	-23	0.915	6.547	...	
		5-5	d0*	2179.664	2178.982	4.3	45878.63 ^D	-90	0.859	6.547	...	
		3-4	1.52	2160.3160	2159.6375	-0.3	46289.524 ^B	7	0.958	6.697	...	
		2-3	1.18	2156.4923	2155.8146	0.7	46371.601 ^B	-16	0.990	6.739	...	
		3-3	1.36	2144.5718	2143.8965	-0.6	46629.355 ^B	13	0.958	6.739	...	
		4-4	0.95	2144.0445	2143.3693	-0.5	46640.823 ^C	10	0.915	6.697	...	
		4-3	1.20	2128.5367	2127.8646	0.1	46980.633 ^B	-3	0.915	6.739	...	
		5-4	d0?	2123.628	2122.957	3.2	47089.23 ^D	-70	0.859	6.697	...	
150	$a^5F-Gsp^3^3F^o$	4-4	1.20	2194.0958	2193.4103	0.0	45576.861 ^B	0	0.915	6.565	...	
		3-3	0.60	2191.5661	2190.8811	-0.9	45629.471 ^C	19	0.958	6.615	...	
		2-2	1.26	2185.1439	2184.4602	1.9	45763.577 ^D	-39	0.990	6.664	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
151	$a^5F-^4F5p^5G^\circ$	4-3	1.32	2174.8245	2174.1430	1.1	45980.722 ^D	-24	0.915	6.615	...	
		3-2	0	2172.906	2172.225	0.9	46021.32 ^D	-20	0.958	6.664	...	
		1-2	1.30	2169.0581	2168.3778	0.0	46102.961 ^B	0	1.011	6.727	...	
		3-4	1.40	2168.0663	2167.3862	0.0	46124.051 ^B	0	0.958	6.677	...	
		5-6	2.10	2167.2659	2166.5860	0.0	46141.085 ^A	0	0.859	6.580	...	
		2-3	7	2166.902	2166.222	0.9	46148.84 ^D	-20	0.990	6.712	...	II
		4-5	2.00	2164.0459	2163.3667	0.0	46209.740 ^A	-1	0.915	6.644	...	
		2-2	0.78	2161.1403	2160.4616	1.0	46271.869 ^D	-22	0.990	6.727	...	
		4-4	1.08	2151.6792	2151.0024	0.7	46475.330 ^C	-16	0.915	6.677	...	
		3-2	0.78	2149.1691	2148.4929	0.3	46529.609 ^B	-7	0.958	6.727	...	
		5-5	1.15	2143.2413	2142.5663	-2.9	46658.301 ^D	63	0.859	6.644	...	
		4-3	1.04	2138.6769	2138.0027	0.2	46757.882 ^D	-4	0.915	6.712	...	
		5-4	0.70	2131.1132	2130.4405	0.3	46923.834 ^D	-7	0.859	6.677	...	
152	$a^5F-^4F5p^5F^\circ$	3-4	1.00	2190.0732	2189.3886	-0.0	45660.574 ^C	1	0.958	6.619	...	
		4-5	3*	2187.803	2187.119	3.4	45707.95 ^D	-70	0.915	6.581	...	
		3-3	0.70	2177.0827	2176.4007	-0.6	45933.028 ^C	12	0.958	6.653	...	
		4-4	1.08	2173.3521	2172.6709	-0.1	46011.872 ^D	3	0.915	6.619	...	II
		2-2	1.36	2171.2352	2170.5544	0.3	46056.733 ^D	-6	0.990	6.700	...	I
		1-1	1.26	2170.6244	2169.9437	0.4	46069.694 ^B	-8	1.011	6.723	...	
		5-5	2.35	2166.5413	2165.8615	0.0	46156.517 ^A	0	0.859	6.581	...	
		4-3	1.88	2160.5596	2159.8810	0.2	46284.305 ^A	-5	0.915	6.653	...	
		3-2	1.72	2159.1527	2158.4745	0.0	46314.463 ^A	0	0.958	6.700	...	
		5-4	2.18	2152.3723	2151.6954	0.0	46460.363 ^A	-1	0.859	6.619	...	
153	$a^5F-y^1H^\circ$	4-5	0.95	2176.9100	2176.2281	-0.1	45936.671 ^D	2	0.915	6.610	...	
154	$a^5F-^4F5p^3F^\circ$ (UV77)	3-4	0	2192.946	2192.261	1.0	45600.75 ^D	-20	0.958	6.612	...	
		4-4	1.18	2176.1809	2175.4991	0.1	45952.063 ^C	-3	0.915	6.612	...	
		2-3	0.78	2159.6762	2158.9978	0.4	46303.237 ^C	-8	0.990	6.731	...	
		5-4	1.58	2155.1465	2154.4690	0.2	46400.558 ^B	-4	0.859	6.612	...	
		1-2	d0?	2148.155	2147.479	4.6	46551.57 ^D	-100	1.011	6.782	...	
		3-3	1.68	2147.7215	2147.0455	-0.0	46560.972 ^A	1	0.958	6.731	...	
		4-3	2.18	2131.6386	2130.9659	-0.1	46912.267 ^A	2	0.915	6.731	...	
		3-2	1	2128.641	2127.969	0.0	46978.33 ^D	0	0.958	6.782	...	II
155	$a^5F-^4F5p^5D^\circ$	3-4	1	2179.488	2178.805	0.0	45882.34 ^D	0	0.958	6.647	...	
		3-3	1.36	2171.2352	2170.5544	-2.1	46056.733 ^D	45	0.958	6.668	...	I
		4-4	2.05	2162.9271	2162.2480	0.0	46233.644 ^A	0	0.915	6.647	...	
		1-2	0.48	2156.2918	2155.6141	1.0	46375.913 ^C	-22	1.011	6.761	...	
		4-3	0.60	2154.8020	2154.1246	0.2	46407.977 ^C	-4	0.915	6.668	...	
		1-1	1.51	2152.9259	2152.2488	0.2	46448.418 ^B	-5	1.011	6.770	...	
		2-2	1.00	2148.4645	2147.7884	-0.2	46544.869 ^B	5	0.990	6.761	...	
		2-1	1.60	2145.1241	2144.4486	0.1	46617.350 ^B	-2	0.990	6.770	...	
		5-4	0.95	2142.1466	2141.4718	-0.2	46682.145 ^B	5	0.859	6.647	...	
		3-2	1.87	2136.6344	2135.9607	0.5	46802.579 ^A	-11	0.958	6.761	...	
		2-3	0.70	2185.8977	2185.2139	0.4	45747.795 ^C	-9	0.990	6.662	...	
		3-2	0	2174.150	2173.469	1.4	45994.98 ^D	-30	0.958	6.661	...	
		3-4	1.28	2166.6711	2165.9913	-0.4	46153.752 ^B	9	0.958	6.680	...	
		4-4	0.78	2150.3060	2149.6296	1.4	46505.008 ^D	-30	0.915	6.680	...	
156	$a^5F-Dsp3^5F^\circ$	4-4	1	2150.304	2149.627	-0.9	46505.06 ^D	20	0.915	6.680	...	
		4-5	d0?	2144.225	2143.550	4.1	46636.89 ^D	-90	0.915	6.697	...	
		5-5	0.60	2123.7957	2123.1246	-1.3	47085.508 ^C	29	0.859	6.697	...	
157	$a^5F-x^3S^\circ$	2-1	d0?	2182.335	2181.652	3.8	45822.48 ^D	-80	0.990	6.671	...	
158	$a^5F-^4F5p^3D^\circ$	2-3	3	2180.933	2180.250	5.7	45851.94 ^D	-120	0.990	6.675	...	II
		3-3	1.34	2168.7368	2168.0566	-0.1	46109.790 ^B	3	0.958	6.675	...	
		1-2	1.34	2165.0609	2164.3814	-0.7	46188.077 ^B	15	1.011	6.737	...	
		2-2	1.62	2157.1731	2156.4952	1.1	46356.967 ^B	-23	0.990	6.737	...	
		3-2	1.49	2145.2437	2144.5682	-1.6	46614.751 ^B	35	0.958	6.737	...	
		1-1	0.95	2143.5068	2142.8317	0.5	46652.522 ^D	-10	1.011	6.795	...	
		2-1	1.11	2135.7731	2135.0996	0.4	46821.453 ^D	-8	0.990	6.795	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
159	$a^5F-Dsp3^5D^o$ (UV80)	1-1	2.02	2182.4018	2181.7187	-2.4	45821.077 ^B	50	1.011	6.692	...	
		2-3	8	2178.380	2177.697	2.4	45905.68 ^D	-50	0.990	6.681	...	
		2-2	2	2177.359	2176.677	1.4	45927.20 ^D	-30	0.990	6.684	...	
		2-1	2	2174.387	2173.706	-0.5	45989.97 ^D	10	0.990	6.692	...	
		3-3	0.70	2166.2150	2165.5352	-0.3	46163.470 ^C	7	0.958	6.681	...	
		3-2		2165.207	2164.528	0.0	46184.957 ^D	0	0.958	6.684	...	
		4-3	0.85	2149.8551	2149.1787	-0.2	46514.763 ^B	5	0.915	6.681	...	
		4-4	0.90	2131.0802	2130.4076	0.5	46924.559 ^B	-12	0.915	6.732	...	
		5-4	2.02	2110.9040	2110.2354	-0.0	47373.069 ^A	1	0.859	6.732	...	
160	$a^5F-t^3G^o$ (UV81)	4-4	0.70	2133.9867	2133.3135	-0.0	46860.648 ^C	1	0.915	6.724	...	
		5-5	0.95	2125.1730	2124.5016	1.3	47054.993 ^C	-28	0.859	6.693	...	
		5-4	1.67	2113.7564	2113.0872	0.0	47309.142 ^B	0	0.859	6.724	...	
161	$a^5F-t^5P^o$ (UV78)	1-2	0	2175.921	2175.239	-1.4	45957.55 ^D	30	1.011	6.709	...	
		2-2	1.04	2167.9563	2167.2762	2.4	46126.391 ^B	-51	0.990	6.709	...	
		3-3	1.04	2160.9170	2160.2383	0.1	46276.651 ^B	-3	0.958	6.696	...	
162	$a^5F-s^6D6p^7D^o$	4-4	d0?	2035.001	2034.347	-1.7	49140.02 ^D	40	0.915	7.007	...	
163	$a^5F-s^6D6p^7F^o$	4-5	d0	2035.574	2034.920	0.0	49126.19 ^D	0	0.915	7.005	...	
		5-5	1.20	2017.1598	2016.5089	1.2	49574.654 ^D	-30	0.859	7.005	...	
		4-3	0?	2014.091	2013.441	0.0	49650.19 ^D	0	0.915	7.070	...	
		5-4	4	2006.894	2006.245	7.2	49828.24 ^D	-180	0.859	7.037	...	I
164	$a^5F-s^6D6p^7P^o$	1-2	d0?	2039.340	2038.685	0.8	49035.47 ^D	-20	1.011	7.090	...	
		2-2	2	2032.340	2031.687	2.5	49204.36 ^D	-60	0.990	7.090	...	
		3-2	1	2021.750	2021.099	2.0	49462.09 ^D	-50	0.958	7.090	...	
		4-3	0	2019.726	2019.075	0.0	49511.66 ^D	0	0.915	7.053	...	
		5-4	2	2015.591	2014.940	2.8	49613.25 ^D	-70	0.859	7.010	...	
165	$a^5F-s^6D6p^5F^o$	4-5	0	2027.144	2026.491	0.8	49330.49 ^D	-20	0.915	7.031	...	
		3-4	d0?	2026.914	2026.261	7.8	49336.09 ^D	-190	0.958	7.075	...	
		2-3	0	2026.013	2025.361	0.8	49358.02 ^D	-20	0.990	7.109	...	
		4-4	1	2012.576	2011.926	0.0	49687.57 ^D	0	0.915	7.075	...	
		5-5	2	2008.883	2008.233	4.0	49778.91 ^D	-100	0.859	7.031	...	
		3-2	2	2006.243	2005.594	1.6	49844.41 ^D	-40	0.958	7.138	...	
		4-3	2	2001.319	2000.671	0.4	49967.05 ^D	-10	0.915	7.109	...	
		5-4	1.38	1994.5705	...	-1.3	50136.107 ^C	33	0.859	7.075	...	
166	$a^5F-s^6D6p^5D^o$	3-4	0	2040.639	2039.984	0.8	49004.25 ^D	-20	0.958	7.034	...	
		1-1	1	2030.609	2029.955	4.1	49246.32 ^D	-100	1.011	7.117	...	
		4-4	1.30	2026.1142	2025.4616	0.2	49355.560 ^C	-6	0.915	7.034	...	
		2-1	0	2023.666	2023.013	2.9	49415.28 ^D	-70	0.990	7.117	...	
		2-2	0?	2023.067	2022.415	2.5	49429.90 ^D	-60	0.990	7.118	...	
		3-3	1.34	2022.6349	2021.9830	0.3	49440.460 ^D	-7	0.958	7.088	...	
		5-4	1.34	2007.8687	2007.2194	0.4	49804.053 ^C	-10	0.859	7.034	...	
167	$a^5F-s^6D_{4.5}4f [5.5]^o$	4-5	0	2025.345	2024.692	0.8	49374.31 ^D	-20	0.915	7.036	...	
	$a^5F-s^6D_{4.5}4f [3.5]^o$	4-4	d0?	2024.787	2024.135	3.3	49387.91 ^D	-80	0.915	7.038	...	
	$a^5F-s^6D_{4.5}4f [5.5]^o$	5-5	1	2007.113	2006.464	0.4	49822.81 ^D	-10	0.859	7.036	...	
	$a^5F-s^6D_{4.5}4f [4.5]^o$	5-5	1	2006.967	2006.318	1.2	49826.42 ^D	-30	0.859	7.036	...	
	$a^5F-s^6D_{4.5}4f [6.5]^o$	5-6	1.43	2006.8937	2006.2445	-0.8	49828.250 ^C	19	0.859	7.037	...	
168	$a^5F-s^6D6p^5P^o$	2-3	d0?	2045.592	2044.936	-1.7	48885.60 ^D	40	0.990	7.051	...	
		3-3	3	2034.868	2034.214	2.1	49143.23 ^D	-50	0.958	7.051	...	
		1-2	d0?	2029.117	2028.464	-1.6	49282.52 ^D	40	1.011	7.121	...	
		4-3	1	2020.427	2019.775	2.9	49494.50 ^D	-70	0.915	7.051	...	
169	$a^5F-s^6D_{3.5}4f [3.5]^o$	3-4	1	2023.431	2022.779	1.6	49421.01 ^D	-40	0.958	7.085	...	
	$a^5F-s^6D_{3.5}4f [5.5]^o$	4-5	1	2009.202	2008.553	0.4	49771.00 ^D	-10	0.915	7.085	...	
	$a^5F-s^6D_{3.5}4f [3.5]^o$	4-4	d0?	2009.155	2008.505	7.3	49772.17 ^D	-180	0.915	7.085	...	
	$a^5F-s^6D_{3.5}4f [3.5]^o$	4-3	3	2009.128	2008.478	3.6	49772.84 ^D	-90	0.915	7.085	...	
	$a^5F-s^6D_{3.5}4f [5.5]^o$	5-5	0	1991.255	...	-2.8	50219.59 ^D	70	0.859	7.085	...	
	$a^5F-s^6D_{3.5}4f [6.5]^o$	5-6	1	1991.044	...	0.0	50224.90 ^D	0	0.859	7.086	...	
170	$a^5F-Dsp1^3D^o$	1-2	0?	2044.147	2043.491	1.3	48920.16 ^D	-30	1.011	7.076	...	II
		3-2	1	2026.476	2025.823	4.1	49346.75 ^D	-100	0.958	7.076	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
171	$a^5F-s^6D_{2.5}4f [2.5]^\circ$	4-3	2	2001.226	2000.578	0.4	49969.37 ^D	-10	0.915	7.110	...	
		1-2	1	2029.372	2028.719	2.9	49276.32 ^D	-70	1.011	7.120	...	
		2-3	d0?	2022.366	2021.714	1.2	49447.03 ^D	-30	0.990	7.121	...	
		2-3	0	2022.095	2021.444	1.6	49453.65 ^D	-40	0.990	7.121	...	
		3-2	d0?	2012.091	2011.441	-0.8	49699.54 ^D	20	0.958	7.120	...	
		4-4	d0?	1997.560	...	-1.2	50061.07 ^D	30	0.915	7.121	...	I
		4-5	d0?	1997.560	...	3.6	50061.07 ^D	-90	0.915	7.121	...	I
		4-4	d0?	1997.507	...	2.0	50062.40 ^D	-50	0.915	7.121	...	
172	$a^5F-s^6D_{2.5}4f [4.5]^\circ$	5-4	0?	1979.769	...	0.4	50510.94 ^D	-10	0.859	7.121	...	
		1-2	d0?	2021.104	2020.452	0.4	49477.92 ^D	-10	1.011	7.145	...	
		3-2	0	2004.377	2003.728	-2.4	49890.81 ^D	60	0.958	7.144	...	
173	$a^5F-s^6D_{1.5}4f [4.5]^\circ$	3-4	1	2004.254	2003.605	-0.4	49893.88 ^D	10	0.958	7.144	...	
		2-3	0	2009.681	2009.031	0.0	49759.14 ^D	0	0.990	7.159	...	
174	$a^5F-s^4D5p^5D^\circ$	4-4	d0?	1984.634	...	-2.8	50387.13 ^D	70	0.915	7.162	...	
		3-2	d0?	1976.190	...	3.1	50602.42 ^D	-80	0.958	7.232	...	
		5-4	1	1967.127	...	0.0	50835.56 ^D	0	0.859	7.162	...	
175	$a^5F-s^4D5p^3F^\circ$	4-3	0?	1933.757	...	1.9	51712.81 ^D	-50	0.915	7.326	...	
176	$a^5F-t^3H^\circ$	3-4	0	1885.741	...	-0.4	53029.55 ^D	10	0.958	7.533	...	II
		5-4	d0?	1857.724	...	0.3	53829.31 ^D	-10	0.859	7.533	...	
177	$a^3F-z^5F^\circ$ (34)	2-2	1.85	6853.5253	6851.6347	-1.9	14591.031 ^C	4	1.608	3.417	-5.32 ^b	
		3-4	1.85	6846.5464	6844.6577	-8.9	14605.904 ^C	19	1.557	3.368	...	
		2-1	2.18	6803.7477	6801.8705	4.6	14697.782 ^B	-10	1.608	3.430	-5.80 ^c	
		3-3	3.41	6741.3823	6739.5219	1.4	14833.753 ^A	-3	1.557	3.396	-4.95 ^b	
		4-5	3.55	6712.1721	6710.3195	0.9	14898.307 ^A	-2	1.485	3.332	-4.88 ^b	
		3-2	2.51	6667.2676	6665.4271	0.0	14998.648 ^B	0	1.557	3.417	...	
		4-4	3.62	6583.0280	6581.2101	0.9	15190.578 ^A	-2	1.485	3.368	-4.86 ^b	
		4-3	2.60	6485.7379	6483.9462	1.7	15418.446 ^B	-4	1.485	3.396	...	
178	$a^3F-z^5P^\circ$ (35)	3-3	0.48	6062.3024	6060.6243	1.8	16495.383 ^A	-5	1.557	3.602	...	
		4-3	1.61	5854.7708	5853.1483	-1.7	17080.088 ^A	5	1.485	3.602	-5.28 ^b	
179	$a^3F-z^3F^\circ$ (36)	3-4	4.04	5334.3831	5332.8997	0.0	18746.310 ^A	0	1.557	3.881	-2.78 ^a	
		2-3	3.89	5308.8376	5307.3610	0.0	18836.515 ^A	0	1.608	3.943	-2.99 ^b	
		2-2	4.76	5217.7263	5216.2740	0.0	19165.436 ^A	0	1.608	3.984	-2.15 ^b	
		3-3	4.86	5196.3884	5194.9418	0.3	19244.135 ^A	-1	1.557	3.943	-2.09 ^b	
		4-4	5.21	5173.0368	5171.5964	-0.3	19331.005 ^A	1	1.485	3.881	-1.79 ^b	
		3-2	4.54	5109.0645	5107.6411	0.3	19573.055 ^A	-1	1.557	3.984	-2.42 ^b	
		4-3	4.75	5043.1619	5041.7560	0.0	19828.830 ^A	0	1.485	3.943	-2.20 ^a	
180	$a^3F-z^3D^\circ$ (37)	2-3	3.59	5448.3885	5446.8746	1.8	18354.051 ^A	-6	1.608	3.883	-3.11 ^a	
		2-2	4.91	5342.5096	5341.0240	0.0	18717.795 ^A	0	1.608	3.928	-1.95 ^a	
		3-3	5.02	5330.0139	5328.5317	0.3	18761.677 ^A	-1	1.557	3.883	-1.85 ^a	
		2-1	5.46	5271.8231	5270.3564	0.0	18968.770 ^A	0	1.608	3.960	-1.34 ^a	
		3-2	5.64	5228.6447	5227.1895	0.3	19125.415 ^A	-1	1.557	3.928	-1.23 ^a	
		4-3	5.88	5168.9278	5167.4885	0.0	19346.372 ^A	0	1.485	3.883	-1.12 ^a	
181	$a^3F-y^5D^\circ$ (38)	3-4	1.85	4869.7332	4868.3734	-0.2	20535.006 ^C	1	1.557	4.103	...	
		2-2	2.24	4800.0727	4798.7313	-0.5	20833.018 ^B	2	1.608	4.191	-4.25 ^b	
		3-3	2.79	4774.1375	4772.8030	-0.9	20946.192 ^A	4	1.557	4.154	-2.90 ^a	
		4-4	3.43	4734.9157	4733.5917	0.0	21119.700 ^A	0	1.485	4.103	-2.99 ^a	
182	$a^3F-y^5F^\circ$ (39)	2-3	2.43	4681.6048	4680.2948	0.0	21360.197 ^A	0	1.608	4.256	-3.77 ^b	
		3-4	3.48	4655.8015	4654.4983	0.2	21478.579 ^A	-1	1.557	4.220	-2.78 ^b	
		2-2	3.18	4634.2091	4632.9117	0.0	21578.655 ^A	0	1.608	4.283	-2.91 ^b	
		4-5	4.11	4604.2305	4602.9410	0.2	21719.156 ^A	-1	1.485	4.178	-2.21 ^a	
		2-1	2.88	4603.2903	4602.0010	0.2	21723.592 ^A	-1	1.608	4.301	-3.15 ^b	
		3-3	3.66	4593.9379	4592.6511	0.0	21767.817 ^A	0	1.557	4.256	-2.45 ^b	
		3-2	2.17	4548.2916	4547.0169	-0.2	21986.277 ^A	1	1.557	4.283	-3.73 ^b	
		4-4	4.14	4532.4187	4531.1482	0.2	22063.275 ^A	-1	1.485	4.220	-2.16 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
183	$a^3F-z^3P^o$ (40)	3-2	2.08	4675.9562	4674.6478	-0.4	21386.000 ^B	2	1.557	4.209	-4.79 ^b	
		2-1	2.04	4674.1385	4672.8305	0.0	21394.317 ^C	0	1.608	4.260	-4.24 ^b	
184	$a^3F-z^5G^o$ (41)	2-3	5.46	4416.3625	4415.1225	0.0	22643.069 ^A	0	1.608	4.415	-0.62 ^b	
		3-4	5.91	4405.9876	4404.7504	0.2	22696.387 ^A	-1	1.557	4.371	-0.14 ^b	
		4-5	5.15	4384.7766	4383.5450	0.4	22806.179 ^A	-2	1.485	4.312	0.20 ^b	
		2-2	3.27	4369.1311	4367.9036	0.2	22887.846 ^A	-1	1.608	4.445	-2.89 ^a	
		3-3	4.36	4338.2657	4337.0463	0.6	23050.686 ^A	-3	1.557	4.415	-1.70 ^b	
		4-4	4.76	4295.3328	4294.1248	0.2	23281.083 ^A	-1	1.485	4.371	-1.11 ^a	
		4-3	2.89	4230.9428	4229.7516	-1.8	23635.394 ^A	10	1.485	4.415	-3.43 ^b	
185	$a^3F-z^3G^o$ (42)	2-3	5.92	4326.9783	4325.7619	0.2	23110.816 ^A	-1	1.608	4.473	0.01 ^a	
		3-4	5.80	4309.1139	4307.9023	0.2	23206.627 ^A	-1	1.557	4.434	-0.07 ^a	
		4-5	5.80	4272.9627	4271.7605	0.4	23402.966 ^A	-2	1.485	4.386	-0.16 ^b	
		3-3	5.33	4251.9836	4250.7869	0.2	23518.435 ^A	-1	1.557	4.473	-0.71 ^a	
		4-4	5.17	4203.2131	4202.0292	0.2	23791.323 ^A	-1	1.485	4.434	-0.71 ^b	
		4-3	3.84	4148.8386	4147.6690	0.2	24103.131 ^A	-1	1.485	4.473	-2.10 ^b	
186	$a^3F-y^3F^o$ (43)	3-4	5.56	4145.0367	4143.8680	0.3	24125.239 ^A	-2	1.557	4.548	-0.51 ^a	
		2-3	5.35	4133.2237	4132.0582	0.0	24194.190 ^A	0	1.608	4.607	-0.67 ^a	
		2-2	5.85	4072.8877	4071.7380	0.0	24552.604 ^A	0	1.608	4.652	-0.02 ^b	
		3-3	5.92	4064.7417	4063.5942	0.2	24601.809 ^A	-1	1.557	4.607	0.06 ^a	
		4-4	6.00	4046.9554	4045.8124	0.2	24709.934 ^A	-1	1.485	4.548	0.28 ^b	
		3-2	5.32	4006.3743	4005.2420	0.2	24960.224 ^A	-1	1.557	4.652	-0.61 ^b	
		4-3	5.63	3970.3802	3969.2572	0.0	25186.505 ^A	0	1.485	4.607	-0.43 ^a	
187	$a^3F-y^5P^o$ (44)	2-3	1.85	4201.9625	4200.7789	1.1	23798.404 ^D	-6	1.608	4.558	...	
		3-3	2.47	4131.2017	4130.0367	-0.3	24206.032 ^D	2	1.557	4.558	...	I
		3-2	2.74	4065.5971	4064.4493	-0.3	24596.633 ^C	2	1.557	4.607	...	
		4-3	3.30	4033.7670	4032.6275	0.5	24790.723 ^A	-3	1.485	4.558	-2.38 ^a	
188	$a^3F-y^3D^o$ (45)	2-3	4.29	3967.1838	3966.0617	0.2	25206.798 ^A	-1	1.608	4.733	-1.66 ^a	
		3-3	5.48	3904.0514	3902.9457	0.2	25614.417 ^A	-1	1.557	4.733	-0.47 ^b	
		2-2	5.30	3889.6154	3888.5135	0.0	25709.483 ^A	0	1.608	4.795	-0.55 ^a	
		2-1	5.66	3842.1375	3841.0480	0.1	26027.179 ^A	-1	1.608	4.835	-0.04 ^a	
		3-2	5.77	3828.9087	3827.8226	0.1	26117.102 ^A	-1	1.557	4.795	0.06 ^b	
		4-3	5.88	3816.9233	3815.8403	0.1	26199.112 ^A	-1	1.485	4.733	0.24 ^a	
189	$a^3F-x^5D^o$ (46)	2-3	...	3703.526	3702.472	...	27001.297 ^D	...	1.608	4.955	...	M I
		3-4	2.46	3694.8287	3693.7774	1.9	27064.854 ^D	-14	1.557	4.913	...	
		3-3	...	3648.448	3647.408	...	27408.917 ^D	...	1.557	4.955	...	M I
		3-2	2.94	3613.9666	3612.9362	-3.7	27670.427 ^C	28	1.557	4.988	...	
		4-3	3.23	3572.2453	3571.2257	1.8	27993.598 ^C	-14	1.485	4.955	-2.60 ^b	
190	$a^3F-x^5F^o$ (48)	2-1	2.92	3550.8790	3549.8648	0.1	28162.041 ^C	-1	1.608	5.099	-2.54 ^b	
		3-3	2.75	3535.9166	3534.9063	0.9	28281.210 ^C	-7	1.557	5.064	...	
		3-2	2.97	3514.0578	3513.0531	-2.0	28457.130 ^C	16	1.557	5.085	-2.53 ^b	
		4-4	2.73	3494.2801	3493.2805	-0.9	28618.198 ^C	7	1.485	5.033	-2.89 ^b	
		4-3	2.74	3464.2948	3463.3028	1.1	28865.904 ^C	-9	1.485	5.064	-2.72 ^a	
191	$a^3F-x^5P^o$ (49)	3-3	2.26	3336.4704	3335.5111	1.2	29971.793 ^D	-11	1.557	5.273	...	
		4-3	2.97	3272.6265	3271.6835	0.3	30556.496 ^B	-3	1.485	5.273	-2.77 ^a	
192	$a^3F-y^5G^o$ (50)	4-5	2.43	3232.5122	3231.5794	-1.7	30935.691 ^C	16	1.485	5.320	...	
193	$a^3F-z^5H^o$ (51)	2-3	2.99	3294.0891	3293.1406	0.1	30357.406 ^B	-1	1.608	5.372	-3.12 ^a	
		3-4	2.81	3273.5396	3272.5964	0.8	30547.973 ^C	-7	1.557	5.345	-3.19 ^a	
		3-3	2.30	3250.4438	3249.5064	-0.2	30765.030 ^D	2	1.557	5.372	...	
		4-5	2.77	3224.1982	3223.2675	-0.8	31015.463 ^C	8	1.485	5.330	-3.27 ^a	
		4-4	0	3212.065	3211.137	5.2	31132.62 ^D	-50	1.485	5.345	...	
194	$a^3F-z^5I^o$ (51a)	3-4	2.60	3238.1569	3237.2226	0.4	30881.765 ^C	-4	1.557	5.386	...	
		4-4	1	3177.990	3177.071	3.0	31466.43 ^D	-30	1.485	5.386	...	II
		4-5	2.51	3176.2305	3175.3119	1.8	31483.861 ^C	-18	1.485	5.388	...	
195	$a^3F-w^5D^o$ (52)	2-2	1	3203.583	3202.657	2.1	31215.05 ^D	-20	1.608	5.478	...	
		3-3	2.40	3188.6000	3187.6783	0.5	31361.726 ^C	-5	1.557	5.446	...	
		2-1	2.56	3180.3982	3179.4785	0.0	31442.604 ^C	0	1.608	5.506	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
196	$a^3F-v^5D^o$ (53)	4-4	11	3172.266	3171.348	5.0	31523.21 ^D	-50	1.485	5.393	...	I
		3-2	3.01	3162.2861	3161.3710	-0.1	31622.692 ^B	1	1.557	5.478	-1.80 ^a	
		4-3	3.11	3130.2401	3129.3331	-0.4	31946.431 ^B	4	1.485	5.446	-2.03 ^a	
		3-3	...	3164.029	3163.114	...	31605.27 ^D	...	1.557	5.476	...	MII
		2-2	0?	3155.023	3154.110	2.0	31695.49 ^D	-20	1.608	5.537	...	
		4-4	2.49	3120.4860	3119.5815	-0.7	32046.290 ^C	7	1.485	5.458	...	
		3-2	0	3114.969	3114.066	7.8	32103.05 ^D	-80	1.557	5.537	...	
		4-3	0	3106.560	3105.659	1.0	32189.95 ^D	-10	1.485	5.476	...	
		3-4	d0?	3139.307	3138.398	-2.0	31854.16 ^D	20	1.557	5.507	...	
		3-3	d0?	3125.944	3125.038	4.9	31990.34 ^D	-50	1.557	5.523	...	
		4-4	1	3082.726	3081.831	1.0	32438.82 ^D	-10	1.485	5.507	...	
		4-3	0?	3069.832	3068.940	1.9	32575.07 ^D	-20	1.485	5.523	...	
197	$a^3F-w^5F^o$	3-4	d0?	3139.307	3138.398	-2.0	31854.16 ^D	20	1.557	5.507	...	
		3-3	d0?	3125.944	3125.038	4.9	31990.34 ^D	-50	1.557	5.523	...	
198	$a^3F-y^5S^o$ (54)	2-2	0	3170.252	3169.335	2.0	31543.23 ^D	-20	1.608	5.519	...	I
		3-2	2.60	3129.8049	3128.8980	0.3	31950.873 ^C	-3	1.557	5.519	...	
199	$a^3F-x^3D^o$ (55)	2-3	d0	3100.569	3099.670	-1.0	32252.14 ^D	10	1.608	5.606	...	I
		2-2	3.18	3094.7032	3093.8052	0.0	32313.276 ^B	0	1.608	5.614	-2.04 ^a	
		2-1	3.85	3069.0651	3068.1735	-0.1	32583.212 ^A	1	1.608	5.648	-1.33 ^a	
		3-3	3.20	3061.8732	3060.9833	-0.1	32659.746 ^D	1	1.557	5.606	-2.05 ^a	II
		3-2	4.00	3056.1508	3055.2624	-0.1	32720.898 ^A	1	1.557	5.614	-1.18 ^a	
		4-3	4.04	3008.0216	3007.1452	-0.2	33244.442 ^A	2	1.485	5.606	-1.16 ^a	
200	$a^3F-y^3G^o$ (56)	2-3	4.13	3068.0097	3067.1183	-0.3	32594.421 ^A	3	1.608	5.649	-1.42 ^a	
		3-4	4.04	3042.5223	3041.6372	-0.1	32867.467 ^A	1	1.557	5.632	-1.28 ^a	
		3-3	3.34	3030.1159	3029.2340	0.0	33002.038 ^B	0	1.557	5.649	-2.17 ^a	
		4-5	4.38	3001.3259	3000.4511	-0.4	33318.608 ^A	4	1.485	5.616	-1.10 ^a	
		4-4	3.19	2989.3431	2988.4713	-0.4	33452.166 ^A	5	1.485	5.632	-2.18 ^a	
		4-3	0	2977.374	2976.506	8.0	33586.64 ^D	-90	1.485	5.649	...	
201	$a^3F-x^5G^o$ (57)	2-3	2*	3035.362	3034.479	-4.6	32945.00 ^D	50	1.608	5.692	...	
		3-4	2.41	3005.5027	3004.6269	-1.5	33272.304 ^C	17	1.557	5.682	...	
		4-5	2.04	2962.9747	2962.1095	2.0	33749.866 ^D	-23	1.485	5.669	...	
202	$a^3F-y^3P^o$	2-2	1	2962.215	2961.350	0.0	33758.52 ^D	0	1.608	5.793	...	
		2-1	d0?	2946.960	2946.099	0.0	33933.27 ^D	0	1.608	5.815	...	
		3-2	1	2926.875	2926.019	0.0	34166.13 ^D	0	1.557	5.793	...	
203	$a^3F-u^5D^o$ (UV86)	2-2	d0	2948.115	2947.253	-0.9	33919.98 ^D	10	1.608	5.813	...	
		3-4	2.32	2927.4086	2926.5522	0.1	34159.905 ^C	-1	1.557	5.792	...	
		3-3	d0?	2925.345	2924.489	4.3	34184.00 ^D	-50	1.557	5.795	...	
		2-1	2.20	2923.2344	2922.3791	-0.4	34208.683 ^D	5	1.608	5.849	...	
		3-2	2.67	2913.1095	2912.2567	0.0	34327.580 ^B	0	1.557	5.813	-2.06 ^a	
		4-4	3.35	2878.1449	2877.3007	-0.1	34744.602 ^A	1	1.485	5.792	-1.29 ^a	
		4-3	2.70	2876.1459	2875.3021	0.1	34768.751 ^B	-1	1.485	5.795	-1.88 ^a	
204	$a^3F-x^3F^o$ (UV87)	2-3	2.69	2930.4751	2929.6179	-0.4	34124.160 ^B	5	1.608	5.839	-2.22 ^a	
		2-2	3.44	2921.5456	2920.6906	-0.3	34228.458 ^A	4	1.608	5.851	-1.39 ^a	
		3-3	3.45	2895.8834	2895.0348	-0.2	34531.777 ^A	2	1.557	5.839	-1.43 ^a	
		3-2	2.58	2887.1624	2886.3160	-0.9	34636.084 ^B	11	1.557	5.851	-2.09 ^a	
		4-4	3.10	2864.2708	2863.4300	0.1	34912.900 ^A	-1	1.485	5.813	-1.34 ^a	
		4-3	2.34	2847.6666	2846.8298	0.0	35116.471 ^C	0	1.485	5.839	-2.13 ^a	
205	$a^3F-z^3H^o$ (UV88)	3-4	2.85	2894.7289	2893.8806	-0.2	34545.549 ^B	2	1.557	5.840	-2.11 ^a	
		4-5	2.34	2854.5224	2853.6840	0.0	35032.130 ^C	0	1.485	5.828	-2.35 ^a	
		4-4	2.48	2846.5497	2845.7132	-0.5	35130.249 ^B	6	1.485	5.840	-2.10 ^a	
206	$a^3F-w^3D^o$ (UV89)	2-3	2.26	2936.9762	2936.1174	0.5	34048.625 ^C	-6	1.608	5.829	...	
		2-2	2.96	2926.7551	2925.8989	-0.3	34167.532 ^B	4	1.608	5.844	-2.28 ^a	
		2-1	2.70	2915.1567	2914.3034	-0.2	34303.473 ^B	2	1.608	5.861	-1.90 ^a	
		3-3	3.06	2902.2308	2901.3807	-0.1	34456.253 ^A	1	1.557	5.829	-1.66 ^a	
		3-2	1	2892.252	2891.405	0.8	34575.13 ^D	-10	1.557	5.844	...	
		4-3	d0*	2853.811	2852.973	6.5	35040.86 ^D	-80	1.485	5.829	...	I
207	$a^3F-w^5G^o$ (UV90)	2-3	2.08	2879.7944	2878.9498	-1.6	34724.701 ^D	19	1.608	5.913	-2.50 ^a	
		2-2	2.78	2868.4036	2867.5617	-0.2	34862.598 ^B	2	1.608	5.930	-1.84 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		3-3	2.28	2846.3840	2845.5476	0.6	35132.294 ^C	-8	1.557	5.913	-2.18 ^a	
		3-2	1.77	2835.2509	2834.4172	-2.4	35270.247 ^D	30	1.557	5.930	...	I
		4-5	d0?	2821.360	2820.530	6.4	35443.90 ^D	-80	1.485	5.879	...	
		4-3	0	2799.792	2798.967	3.9	35716.94 ^D	-50	1.485	5.913	...	
208	$a^3F\text{--}P_{sp3}^1D^o$ (UV91*)	2-2	5	2902.656	2901.805	-5.9	34451.21 ^D	70	1.608	5.879	...	
		3-2	2.11	2868.7199	2867.8780	-0.2	34858.753 ^C	2	1.557	5.879	...	
209	$a^3F\text{--}z^1G^o$	4-4	2	2818.775	2817.945	4.8	35476.41 ^D	-60	1.485	5.883	-2.90 ^a	
210	$a^3F\text{--}y^3S^o$	2-1	1	2891.259	2890.411	3.3	34587.01 ^D	-40	1.608	5.896	...	
211	$a^3F\text{--}v^5F^o$ (UV92)	2-2	1.77	2835.2509	2834.4172	3.5	35270.247 ^D	-44	1.608	5.981	...	I
		3-4	2.03	2827.3284	2826.4966	-1.5	35369.079 ^C	19	1.557	5.942	...	
		3-3	2	2811.995	2811.167	4.0	35561.94 ^D	-50	1.557	5.966	...	
		4-5	1.52	2806.6369	2805.8103	3.2	35629.831 ^C	-41	1.485	5.902	...	
		4-4	2	2781.349	2780.528	-1.5	35953.78 ^D	20	1.485	5.942	...	
		4-3	1	2766.506	2765.689	0.0	36146.68 ^D	0	1.485	5.966	...	
212	$a^3F\text{--}x^3G^o$ (UV93)	2-3	2.88	2868.1511	2867.3094	-0.2	34865.666 ^B	2	1.608	5.930	-1.97 ^a	
		3-4	2.68	2836.7848	2835.9507	0.5	35251.176 ^B	-6	1.557	5.928	-1.85 ^a	
		3-3	2.16	2835.0070	2834.1734	0.3	35273.281 ^D	-4	1.557	5.930	-2.70 ^a	
		4-4	1.93	2790.4994	2789.6767	-0.2	35835.879 ^D	2	1.485	5.928	...	
		4-3	1.78	2788.7804	2787.9580	0.9	35857.969 ^D	-11	1.485	5.930	...	
		4-5	3.11	2788.7537	2787.9314	-0.2	35858.312 ^A	3	1.485	5.931	-1.54 ^a	
213	$a^3F\text{--}y^5H^o$	2-3	2.81	2816.3357	2815.5066	-0.1	35507.131 ^B	1	1.608	6.010	-1.92 ^a	
		3-4	2.86	2793.2223	2792.3989	-0.1	35800.946 ^A	1	1.557	5.996	-1.91 ^a	
		3-3	1.80	2784.3711	2783.5498	-0.2	35914.753 ^C	3	1.557	6.010	...	
		4-5	2.84	2758.2375	2757.4226	0.2	36255.036 ^A	-3	1.485	5.980	-2.04 ^a	
214	$a^3F\text{--}x^3P^o$ (UV96)	2-1	1	2813.136	2812.307	4.7	35547.52 ^D	-60	1.608	6.015	...	
		3-2	2.00	2797.6921	2796.8676	-3.2	35743.748 ^C	41	1.557	5.989	...	
215	$a^3F\text{--}z^1H^o$	4-5	2.23	2746.7729	2745.9608	0.2	36406.359 ^B	-3	1.485	5.998	...	
216	$a^3F\text{--}y^1G^o$ (UV97)	4-4	2.07	2722.8454	2722.0390	0.4	36726.287 ^B	-6	1.485	6.038	-2.20 ^a	
217	$a^3F\text{--}w^3F^o$ (UV98)	2-3	d0?	2756.764	2755.950	-6.1	36274.41 ^D	80	1.608	6.105	...	
		2-2	1.77	2742.3879	2741.5768	0.2	36464.572 ^C	-2	1.608	6.129	-2.40 ^a	
		3-4	0	2736.126	2735.317	-4.5	36548.02 ^D	60	1.557	6.089	...	
		3-3	1.94	2726.1364	2725.3293	0.0	36681.950 ^B	0	1.557	6.105	...	
		3-2	d0?	2712.077	2711.273	5.9	36872.11 ^D	-80	1.557	6.129	...	
		4-4	2.02	2693.0473	2692.2482	-0.1	37132.656 ^B	1	1.485	6.089	-2.21 ^a	
218	$a^3F\text{--}v^3D^o$	3-3	1.88	2734.1746	2733.3655	-1.6	36574.109 ^D	22	1.557	6.092	-2.43 ^a	
219	$a^3F\text{--}y^3H^o$ (UV99)	3-4	2.50	2690.6275	2689.8289	0.1	37166.052 ^A	-1	1.557	6.165	-1.53 ^a	
		4-5	2.24	2657.5825	2656.7919	0.1	37628.183 ^D	-2	1.485	6.150	-1.77 ^a	II
		4-4	0	2648.954	2648.165	0.0	37750.75 ^D	0	1.485	6.165	...	II
220	$a^3F\text{--}v^3G^o$ (UV100)	2-3	2.72	2711.3472	2710.5437	0.0	36882.034 ^A	0	1.608	6.180	-1.33 ^a	
		3-4	2.55	2697.8213	2697.0210	0.0	37066.948 ^A	0	1.557	6.153	-1.46 ^a	
		3-3	1.52	2681.7092	2680.9128	0.2	37289.651 ^C	-3	1.557	6.180	...	
		4-5	2.67	2667.7580	2666.9650	0.1	37484.659 ^B	-1	1.485	6.132	-1.22 ^a	
		4-4	0	2655.929	2655.139	2.1	37651.61 ^D	-30	1.485	6.153	...	
221	$a^3F\text{--}F_{sp3}^1F^o$	2-3	1	2739.088	2738.278	5.3	36508.50 ^D	-70	1.608	6.134	...	
		3-3	1	2708.842	2708.039	2.9	36916.15 ^D	-40	1.557	6.134	...	I
		4-3	0	2666.599	2665.806	-4.3	37500.95 ^D	60	1.485	6.134	...	
222	$a^3F\text{--}n^7F^o$	3-4	1	2649.541	2648.752	-7.0	37742.39 ^D	100	1.557	6.237	...	
		3-3	0?	2640.463	2639.676	-4.2	37872.15 ^D	60	1.557	6.253	...	
223	$a^3F\text{--}z^1F^o$	3-3	d0	2629.782	2628.998	-1.4	38025.97 ^D	20	1.557	6.272	...	
224	$a^3F\text{--}x^1G^o$	3-4	1.56	2627.9118	2627.1282	1.3	38053.028 ^C	-19	1.557	6.275	...	
		4-4	0	2588.148	2587.374	5.4	38637.66 ^D	-80	1.485	6.275	...	
225	$a^3F\text{--}u^5F^o$	4-4	2.51	2537.7342	2536.9720	-0.9	39405.230 ^D	14	1.485	6.370	...	
		4-3	d0*	2522.527	2521.769	3.2	39642.78 ^D	-50	1.485	6.400	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
226	$a^3F-x^3H^\circ$ (UV101)	4-5	2.02	2558.0377	2557.2707	0.8	39092.465 ^B	-12	1.485	6.331	...	
227	$a^3F-v^3F^\circ$	2-2	0	2615.561	2614.780	0.7	38232.72 ^D	-10	1.608	6.348	...	
		2-3	1.11	2604.3863	2603.6084	-0.4	38396.761 ^D	6	1.608	6.368	...	
		3-4	1.85	2581.0665	2580.2941	-0.4	38743.674 ^B	6	1.557	6.361	...	
		4-4	1	2542.692	2541.929	-1.3	39328.39 ^D	20	1.485	6.361	...	I
		4-3	d0	2538.770	2538.008	-5.2	39389.15 ^D	80	1.485	6.368	...	
228	$a^3F-u^3G^\circ$ (UV102)	2-3	2.11	2573.5260	2572.7554	1.5	38857.194 ^B	-22	1.608	6.425	-1.76 ^a	
		3-4	2.27	2557.0706	2556.3038	-0.1	39107.251 ^A	1	1.557	6.406	-1.65 ^a	
		4-5	2.38	2538.2212	2537.4589	0.0	39397.669 ^A	0	1.485	6.369	-1.47 ^a	
		4-4	2.50	2519.4045	2518.6465	1.5	39691.920 ^C	-24	1.485	6.406	...	
229	$a^3F-Hsp3^1H^\circ$	4-5	1.46	2521.8183	2521.0598	0.6	39653.927 ^D	-10	1.485	6.401	...	
230	$a^3F-y^1D^\circ$	2-2	1.48	2581.3268	2580.5543	-1.1	38739.767 ^C	17	1.608	6.411	...	
231	$a^3F-x^1D^\circ$	2-2	4	2577.755	2576.984	5.3	38793.44 ^D	-80	1.608	6.417	...	
232	$a^3F-u^3D^\circ$ (UV104)	2-2	1	2542.692	2541.929	-1.3	39328.39 ^D	20	1.608	6.484	...	I
		2-1	2	2528.838	2528.077	2.6	39543.86 ^D	-40	1.608	6.510	...	
		3-2	1.62	2516.6110	2515.8537	0.3	39735.978 ^C	-4	1.557	6.484	-2.24 ^a	
		4-3	0?	2500.447	2499.693	0.6	39992.85 ^D	-10	1.485	6.443	...	
233	$a^3F-t^3D^\circ$	3-3	0?	2521.918	2521.159	-3.8	39652.36 ^D	60	1.557	6.473	...	
		2-2	2.17	2517.9781	2517.2205	-2.6	39714.404 ^D	41	1.608	6.532	...	II
		3-2	0*	2492.395	2491.643	-3.7	40122.05 ^D	60	1.557	6.532	...	
		4-3	1.30	2485.2755	2484.5255	0.1	40236.988 ^D	-1	1.485	6.473	...	II
234	$a^3F-w^3H^\circ$	4-5	0	2460.819	2460.075	-1.2	40636.87 ^D	20	1.485	6.523	...	
235	$a^3F-^4F5p^3G^\circ$	4-5	1.77	2449.1342	2448.3925	0.2	40830.756 ^C	-3	1.485	6.547	...	
		3-3	0.85	2392.5480	2391.8192	1.3	41796.445 ^C	-22	1.557	6.739	...	
		4-4	2.28	2378.6100	2377.8843	-1.3	42041.361 ^B	23	1.485	6.697	...	
236	$a^3F-Gsp3^3F^\circ$	3-4	d0?	2475.691	2474.943	-3.7	40392.76 ^D	60	1.557	6.565	...	
		2-2	1.97	2452.1298	2451.3874	-1.7	40780.876 ^B	29	1.608	6.664	...	
		3-3	2.06	2451.1857	2450.4435	-0.3	40796.583 ^B	5	1.557	6.615	...	
		4-4	1.68	2440.3703	2439.6307	0.0	40977.387 ^B	0	1.485	6.565	...	
		3-2	2.00	2427.8619	2427.1250	-2.2	41188.505 ^C	38	1.557	6.664	...	
237	$a^3F-^4F5p^5G^\circ$	3-3	d1	2405.371	2404.639	4.6	41573.63 ^D	-80	1.557	6.712	...	
		4-4	1.83	2388.0097	2387.2820	-0.3	41875.876 ^B	5	1.485	6.677	...	
238	$a^3F-^4F5p^5F^\circ$	2-3	1.61	2457.4519	2456.7083	-2.1	40692.557 ^D	35	1.608	6.653	...	II
		3-4	1.46	2449.3161	2448.5743	-1.5	40827.724 ^D	25	1.557	6.619	...	
		2-2	0	2434.630	2433.892	-1.8	41074.00 ^D	30	1.608	6.700	...	
		3-3	d2*	2433.081	2432.343	0.0	41100.15 ^D	0	1.557	6.653	...	
		4-3	4	2398.958	2398.227	3.5	41684.77 ^D	-60	1.485	6.653	...	
		4-4	...	2414.736	2414.002	...	41412.395 ^D	...	1.485	6.619	...	MII
239	$a^3F-^4F5p^3F^\circ$	3-4	1.76	2452.9103	2452.1678	-0.1	40767.899 ^C	2	1.557	6.612	...	
		4-4	3	2418.232	2417.498	4.1	41352.52 ^D	-70	1.485	6.612	...	
		3-3	4	2396.475	2395.746	8.4	41727.95 ^D	-147	1.557	6.731	...	
		2-2	1.82	2395.9064	2395.1768	-1.6	41737.858 ^C	28	1.608	6.782	...	
		4-3	0	2363.352	2362.630	0.6	42312.78 ^D	-10	1.485	6.731	...	
240	$a^3F-^4F5p^5D^\circ$	4-4	1.63	2401.8744	2401.1435	1.2	41634.150 ^C	-20	1.485	6.647	...	
241	$a^3F-Dsp3^5F^\circ$	2-2	1.63	2453.7174	2452.9747	1.9	40754.489 ^D	-32	1.608	6.661	...	II
		2-3	4	2453.081	2452.338	-2.0	40765.07 ^D	33	1.608	6.662	...	
		4-4	1.77	2386.3164	2385.5890	-1.6	41905.591 ^D	28	1.485	6.680	...	
242	$a^3F-x^1F^\circ$	3-3	4	2427.052	2426.315	5.3	41202.25 ^D	-90	1.557	6.666	...	
243	$a^3F-^4F5p^3D^\circ$	3-2	2	2393.385	2392.656	1.1	41781.82 ^D	-20	1.557	6.737	...	
		2-1	1	2390.134	2389.406	1.7	41838.66 ^D	-30	1.608	6.795	...	
		4-3	1.54	2388.8249	2388.0969	1.3	41861.587 ^D	-22	1.485	6.675	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
244	$a^3F-Dsp3^5D^\circ$	2-2	0	2442.330	2441.590	-2.4	40944.51 ^D	40	1.608	6.684	...	
		3-3	d0?	2419.522	2418.787	6.4	41330.48 ^D	-110	1.557	6.681	...	
		3-4	1	2395.756	2395.026	-4.0	41740.48 ^D	70	1.557	6.732	...	
		4-4	1.72	2362.6642	2361.9422	-0.2	42325.100 ^B	3	1.485	6.732	...	
245	$a^3F-t^3G^\circ$ (UV107)	3-4	1	2399.435	2398.705	0.0	41676.48 ^D	0	1.557	6.724	...	
		3-3	1.71	2378.7205	2377.9948	0.3	42039.408 ^C	-5	1.557	6.769	...	
		4-4	1.45	2366.2379	2365.5150	-0.3	42261.178 ^C	5	1.485	6.724	...	
246	$a^3F-t^5P^\circ$	3-3	0	2412.913	2412.180	5.8	41443.68 ^D	-100	1.557	6.696	...	
		4-3	1	2379.342	2378.616	2.3	42028.43 ^D	-40	1.485	6.696	...	
247	$a^3F-s^3G^\circ$ (UV111)	2-3	1.20	2335.2399	2334.5240	-0.8	42822.152 ^C	14	1.608	6.917	...	
		3-4	1.89	2307.0920	2306.3823	-0.5	43344.609 ^B	10	1.557	6.931	...	
		4-5	1.86	2301.3062	2300.5977	-0.3	43453.583 ^B	6	1.485	6.872	...	
		4-4	d0?	2276.382	2275.679	-3.1	43929.36 ^D	60	1.485	6.931	...	
248	$a^3F-v^3H^\circ$ (UV108)	4-4	3	2300.452	2299.744	2.1	43469.72 ^D	-40	1.485	6.874	...	II
		4-5	1.26	2296.2478	2295.5405	0.7	43549.306 ^D	-14	1.485	6.884	...	
249	$a^3F-^2H4p^1H^\circ$	4-5	1.81	2276.2999	2275.5969	-0.3	43930.942 ^B	6	1.485	6.931	...	
250	$a^3F-Gsp3^1F^\circ$	2-3	1.85	2318.6103	2317.8980	-0.3	43129.284 ^C	5	1.608	6.955	...	
		3-3	d0?	2296.903	2296.196	0.5	43536.88 ^D	-10	1.557	6.955	...	
		4-3	2	2266.459	2265.758	-4.6	44121.69 ^D	90	1.485	6.955	...	
251	$a^3F-u^3H^\circ$	3-4	0	2279.857	2279.153	-2.6	43862.40 ^D	50	1.557	6.995	...	
		4-5	0	2251.928	2251.230	1.0	44406.40 ^D	-20	1.485	6.990	...	
252	$a^3F-u^3F^\circ$ (UV112)	2-3	0?	2282.333	2281.629	-2.1	43814.81 ^D	40	1.608	7.040	...	
		2-2	1.59	2278.4182	2277.7147	-0.2	43890.099 ^B	3	1.608	7.049	...	
		3-3	1.77	2261.2970	2260.5972	-1.3	44222.409 ^B	25	1.557	7.040	...	
		3-2	1.15	2257.4539	2256.7549	1.1	44297.694 ^D	-21	1.557	7.049	...	
		4-4	1.84	2241.3253	2240.6298	0.0	44616.460 ^B	0	1.485	7.016	...	
		4-3	1	2231.795	2231.101	4.5	44806.99 ^D	-90	1.485	7.040	...	
253	$a^3F-v^1G^\circ$ (UV113)	4-4	1.43	2223.4550	2222.7633	0.4	44975.050 ^C	-8	1.485	7.061	...	
254	$a^3F-t^3F^\circ$ (UV114)	2-3	0	2238.512	2237.817	-4.0	44672.53 ^D	80	1.608	7.146	...	II
		2-2	1.28	2235.1270	2234.4329	-0.1	44740.187 ^C	3	1.608	7.155	...	
		3-4	0	2222.763	2222.071	0.5	44989.06 ^D	-10	1.557	7.135	...	
		3-3	1	2218.276	2217.585	0.0	45080.06 ^D	0	1.557	7.146	...	
		3-2	d0?	2214.947	2214.257	0.0	45147.81 ^D	0	1.557	7.155	...	
		4-4	0.48	2194.2457	2193.5602	1.0	45573.748 ^C	-20	1.485	7.135	...	
		4-3	0.60	2189.8724	2189.1878	-0.1	45664.761 ^C	2	1.485	7.146	...	
255	$a^3F-Psp1^3D^\circ$	3-3	0	2222.009	2221.318	2.0	45004.32 ^D	-40	1.557	7.137	...	
		4-3	1.20	2193.5088	2192.8234	0.1	45589.059 ^C	-3	1.485	7.137	...	
256	$a^3F-s^4D5p^5D^\circ$	4-3	0.85	2171.2107	2170.5299	0.5	46057.253 ^D	-11	1.485	7.195	...	
257	$a^3F-s^4D5p^3F^\circ$	3-4	0	2204.762	2204.074	-2.4	45356.37 ^D	50	1.557	7.181	...	
		4-4	0.48	2176.7053	2176.0234	1.0	45940.991 ^D	-21	1.485	7.181	...	
		2-2	0?	2174.225	2173.543	0.9	45993.41 ^D	-20	1.608	7.310	...	
		2-3	d0?	2168.206	2167.526	0.0	46121.08 ^D	0	1.608	7.326	...	
		3-2	1.26	2155.1230	2154.4456	-0.2	46401.063 ^C	5	1.557	7.310	...	
		4-3	1.20	2122.5397	2121.8688	0.7	47113.371 ^D	-15	1.485	7.326	...	
258	$a^3F-s^4D5p^3P^\circ$	3-2	0	2200.773	2200.086	-2.4	45438.58 ^D	50	1.557	7.191	...	
		2-1	0.48	2156.3251	2155.6474	2.5	46375.197 ^C	-53	1.608	7.357	...	
259	$a^3F-Hsp1^3G^\circ$	2-3	0.95	2191.4546	2190.7697	-0.2	45631.791 ^B	5	1.608	7.265	...	
		3-4	1.54	2184.6634	2183.9799	1.6	45773.642 ^B	-33	1.557	7.232	...	
		3-3	0.48	2172.0513	2171.3703	-1.1	46039.429 ^C	23	1.557	7.265	...	
		4-5	1.77	2171.9149	2171.2340	-0.0	46042.320 ^A	1	1.485	7.193	...	
		4-4	1.04	2157.1081	2156.4303	0.4	46358.362 ^C	-8	1.485	7.232	...	
260	$a^3F-s^4D5p^3D^\circ$	2-2	0?	2214.171	2213.481	2.9	45163.63 ^D	-60	1.608	7.207	...	
		2-3	0	2207.128	2206.440	-1.9	45307.75 ^D	40	1.608	7.225	...	
		3-3	3	2187.451	2186.767	0.5	45715.31 ^D	-10	1.557	7.225	...	II

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
261	$a^3F-F_{sp1}^3F^o$	4-3	3	2159.828	2159.150	1.4	46299.98 ^D	-30	1.485	7.225	...	II
		2-3	d0?	2118.468	2117.798	-0.4	47203.92 ^D	10	1.608	7.460	...	
		3-4		2103.728	2103.061	0.0	47534.662 ^D	0	1.557	7.451	...	
		3-3	0.48	2100.3325	2099.6660	0.8	47611.508 ^C	-18	1.557	7.460	...	
		4-4	1.26	2078.1653	2077.5030	-0.5	48119.368 ^C	11	1.485	7.451	...	
262	$a^3F-t^3H^o$ (UV115)	4-3	2.95	2074.8504	2074.1888	-1.0	48196.245 ^D	23	1.485	7.460	...	II
		4-5	1	2058.763	2058.105	0.8	48572.85 ^D	-20	1.485	7.507	...	
263	$a^3F-F_{sp1}^3D^o$	3-3	0	2072.721	2072.059	-1.3	48245.77 ^D	30	1.557	7.539	...	
		4-3	1	2047.905	2047.248	0.8	48830.40 ^D	-20	1.485	7.539	...	
264	$a^5P-z^7D^o$	3-4	2.34	49695.392	49681.845	-25	2012.259 ^B	1	2.176	2.425	...	
		2-3	2.49	49260.088	49246.660	73	2030.041 ^B	-3	2.198	2.449	...	
265	$a^5P-z^7P^o$	2-3	2.24	15494.572	15490.339	0	6453.873 ^A	0	2.198	2.998	-4.57 ^a	
		1-2	2.23	15198.644	15194.492	0	6579.534 ^A	0	2.223	3.038	...	
		3-3	3.02	15081.411	15077.291	0	6630.679 ^D	0	2.176	2.998	-4.20 ^a	I
		2-2	2.11	14749.425	14745.395	4	6779.925 ^A	-2	2.198	3.038	...	
		3-2	1.30	14374.561	14370.633	0	6956.734 ^A	0	2.176	3.038	...	
266	$a^5P-z^5D^o$ (58)	3-4	4.38	11976.327	11973.050	3	8349.805 ^A	-2	2.176	3.211	-1.48 ^a	
		1-2	4.34	11887.338	11884.085	1	8412.312 ^A	-1	2.223	3.266	-2.08 ^a	
		2-3	4.39	11886.099	11882.847	1	8413.189 ^A	-1	2.198	3.241	-1.67 ^a	
		1-1	4.36	11693.176	11689.976	3	8551.996 ^A	-2	2.223	3.283	-2.07 ^a	
		3-3	4.22	11641.450	11638.264	3	8589.995 ^A	-2	2.176	3.241	-2.21 ^a	
		2-2	4.40	11610.752	11607.575	1	8612.706 ^A	-1	2.198	3.266	-2.01 ^a	
		1-0	3.95	11596.765	11593.591	1	8623.094 ^A	-1	2.223	3.292	-2.45 ^a	
		2-1	3.66	11425.450	11422.323	3	8752.390 ^D	-2	2.198	3.283	-2.70 ^a	II
		3-2	3.11	11377.195	11374.081	3	8789.512 ^A	-2	2.176	3.266	-3.24 ^a	
		3-4	2.95	10398.646	10395.797	1	9616.636 ^A	-1	2.176	3.368	...	
267	$a^5P-z^5F^o$ (59)	1-2	2.10	10381.846	10379.002	2	9632.198 ^A	-2	2.223	3.417	...	
		2-3	2.67	10343.720	10340.886	1	9667.701 ^A	-1	2.198	3.396	...	
		1-1	1.66	10268.033	10265.220	1	9738.963 ^A	-1	2.223	3.430	...	
		2-2	2.14	10170.256	10167.469	0	9832.594 ^A	0	2.198	3.417	...	
		3-3	2.03	10157.949	10155.165	2	9844.507 ^A	-2	2.176	3.396	...	
		2-1	1.53	10061.006	10058.249	-4	9939.363 ^B	4	2.198	3.430	...	
		3-2	1.11	9990.6078	9987.8696	0.0	10009.401 ^B	0	2.176	3.417	...	
		2-3	4.37	8826.6442	8824.2211	0.8	11329.334 ^A	-1	2.198	3.602	-1.54 ^a	
		3-3	3.91	8691.0119	8688.6255	1.5	11506.140 ^A	-2	2.176	3.602	-1.21 ^b	
		1-2	4.32	8664.2792	8661.9000	0.0	11541.641 ^A	0	2.223	3.654	-1.54 ^a	
268	$a^5P-z^5P^o$ (60)	2-2	3.72	8516.4113	8514.0721	0.0	11742.035 ^A	0	2.198	3.654	-2.23 ^b	
		1-1	3.83	8470.7343	8468.4074	0.0	11805.352 ^A	0	2.223	3.686	-2.07 ^b	
		3-2	4.42	8390.0775	8387.7725	0.7	11918.841 ^A	-1	2.176	3.654	-1.49 ^b	
		2-1	4.34	8329.3450	8327.0563	0.0	12005.746 ^A	0	2.198	3.686	-1.53 ^b	
		3-4	5.32	6432.6238	6430.8464	1.2	15545.756 ^A	-3	2.176	4.103	-2.01 ^b	
269	$a^5P-y^5D^o$ (62)	2-3	4.71	6337.0826	6335.3308	0.8	15780.132 ^A	-2	2.198	4.154	-2.18 ^a	
		1-2	3.67	6299.5348	6297.7931	0.4	15874.188 ^A	-1	2.223	4.191	-2.74 ^b	
		3-3	3.43	6266.8669	6265.1340	1.2	15956.937 ^A	-3	2.176	4.154	-2.55 ^b	
		2-2	2.89	6221.0016	6219.2810	0.4	16074.582 ^A	-1	2.198	4.191	-2.43 ^b	
		1-1	2.66	6215.1493	6213.4303	0.8	16089.718 ^A	-2	2.223	4.217	-2.48 ^a	
		1-0	2.38	6175.0438	6173.3356	1.1	16194.217 ^A	-3	2.223	4.230	-2.88 ^b	
		3-2	2.12	6153.3206	6151.6181	0.8	16251.388 ^A	-2	2.176	4.191	-3.30 ^b	
		2-1	2.39	6138.6932	6136.9947	0.8	16290.112 ^A	-2	2.198	4.217	-2.95 ^b	
		3-4	1.53	6064.5271	6062.8484	0.7	16489.332 ^A	-2	2.176	4.220	-4.14 ^b	
		2-3	1.64	6023.4588	6021.7912	2.2	16601.757 ^A	-6	2.198	4.256	...	
270	$a^5P-y^5F^o$ (63)	1-2	0.70	6016.9102	6015.2443	0.4	16619.826 ^A	-1	2.223	4.283	-4.68 ^b	
		1-1	0.48	5964.8905	5963.2386	-1.1	16764.767 ^A	3	2.223	4.301	...	
		3-3	1.15	5959.9838	5958.3332	0.0	16778.569 ^A	0	2.176	4.256	...	
		2-2	1.00	5945.2251	5943.5784	0.0	16820.221 ^A	0	2.198	4.283	...	
		2-1	0.00	5894.4341	5892.8010	0.3	16965.157 ^B	-1	2.198	4.301	-4.03 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
271	$a^5P-z^3P^o$ (64)	3-2	0.00	5883.3811	5881.7510	0.0	16997.029 ^C	0	2.176	4.283	...	
		1-2	2.46	6242.3726	6240.6462	0.0	16019.550 ^A	0	2.223	4.209	-3.17 ^a	
		2-2	2.02	6165.2502	6163.5445	0.4	16219.942 ^A	-1	2.198	4.209	-3.84 ^b	
		3-2	1.15	6098.7692	6097.0814	-0.4	16396.751 ^B	1	2.176	4.209	...	
		1-1	2.22	6084.3946	6082.7106	0.0	16435.489 ^A	0	2.223	4.260	-3.57 ^b	
272	$a^5P-y^3F^o$ (65)	1-0	1.75	6013.8750	6012.2099	-0.4	16628.214 ^A	1	2.223	4.284	-4.20 ^b	
		3-4	2.28	5225.7528	5224.2983	-1.6	19135.999 ^C	6	2.176	4.548	-4.08 ^b	
		2-3	2.01	5145.1567	5143.7237	0.5	19435.754 ^B	-2	2.198	4.607	-3.79 ^b	
		2-3	3.65	5252.1075	5250.6460	0.0	19039.976 ^A	0	2.198	4.558	-2.18 ^a	
		3-3	3.92	5203.7846	5202.3360	0.3	19216.783 ^A	-1	2.176	4.558	-1.84 ^b	
273	$a^5P-y^5P^o$ (66)	1-2	3.47	5200.1588	5198.7111	0.3	19230.182 ^A	-1	2.223	4.607	-2.14 ^b	
		2-2	2.56	5146.5270	5145.0937	-0.5	19430.579 ^B	2	2.198	4.607	-2.88 ^a	
		1-1	3.14	5132.8984	5131.4687	0.3	19482.170 ^A	-1	2.223	4.638	-2.51 ^a	
		3-2	3.83	5100.1192	5098.6981	-0.5	19607.385 ^A	2	2.176	4.607	-2.03 ^a	
		2-1	3.60	5080.6389	5079.2230	0.0	19682.564 ^A	0	2.198	4.638	-2.07 ^b	
274	$a^5P-y^3D^o$ (67)	2-3	3.07	4890.3668	4889.0015	0.0	20448.364 ^A	0	2.198	4.733	-2.55 ^a	
		1-2	2.23	4819.1245	4817.7781	-0.5	20750.657 ^B	2	2.223	4.795	-3.53 ^b	
		2-2	2.36	4773.0307	4771.6965	0.0	20951.049 ^B	0	2.198	4.795	-3.81 ^b	
		1-1	1.60	4746.4557	4745.1286	0.0	21068.352 ^C	0	2.223	4.835	-4.17 ^b	
		3-4	4.81	4529.8841	4528.6142	0.2	22075.620 ^A	-1	2.176	4.913	-0.82 ^b	
275	$a^5P-x^5D^o$ (68)	2-3	4.10	4495.8241	4494.5632	0.0	22242.863 ^A	0	2.198	4.955	-1.14 ^b	
		1-2	3.89	4483.5104	4482.2527	-0.2	22303.952 ^A	1	2.223	4.988	-1.48 ^a	
		3-3	3.98	4460.3692	4459.1176	0.2	22419.669 ^A	-1	2.176	4.955	-1.28 ^b	
		1-1	3.98	4448.9658	4447.7173	-0.2	22477.134 ^A	1	2.223	5.009	-1.34 ^b	
		2-2	4.13	4443.5861	4442.3390	-0.2	22504.346 ^A	1	2.198	4.988	-1.26 ^b	
276	$a^5P-y^7P^o$ (69)	1-0	3.62	4431.8580	4430.6140	0.0	22563.900 ^A	0	2.223	5.020	-1.66 ^b	
		2-1	3.59	4409.6517	4408.4135	-0.2	22677.528 ^A	1	2.198	5.009	-1.78 ^a	
		3-2	3.43	4408.9471	4407.7092	0.0	22681.152 ^A	0	2.176	4.988	-1.97 ^a	
		1-2	2.29	4519.8443	4518.5771	-1.2	22124.656 ^B	6	2.223	4.966	-3.94 ^b	
		2-2	2.18	4479.2747	4478.0182	0.4	22325.043 ^B	-2	2.198	4.966	-3.70 ^b	
277	$a^5P-x^5F^o$ (70)	2-3	3.25	4448.3788	4447.1304	0.2	22480.100 ^A	-1	2.198	4.985	-2.73 ^a	
		3-2	3.28	4444.0788	4442.8316	0.2	22501.851 ^A	-1	2.176	4.966	-2.79 ^b	
		3-4	1.85	4372.2093	4370.9810	4.2	22871.732 ^D	-22	2.176	5.012	...	
		3-4	2.47	4339.4675	4338.2478	-10.0	23044.302 ^B	53	2.176	5.033	-2.78 ^b	
		2-3	2.60	4326.1648	4324.9486	0.4	23115.162 ^C	-2	2.198	5.064	...	
278	$a^5P-z^5S^o$ (71)	2-2	2.37	4293.4919	4292.2844	-0.7	23291.065 ^B	4	2.198	5.085	-2.78 ^b	
		3-3	2.16	4293.3253	4292.1178	0.4	23291.969 ^C	-2	2.176	5.064	-3.04 ^b	
		1-2	4.56	4353.9582	4352.7347	-0.2	22967.607 ^A	1	2.223	5.070	-1.29 ^a	
		2-2	4.79	4316.2982	4315.0846	-0.2	23168.001 ^A	1	2.198	5.070	-0.97 ^a	
		3-2	4.95	4283.6079	4282.4029	0.0	23344.807 ^A	0	2.176	5.070	-0.78 ^a	
279	$a^5P-x^5P^o$ (72)	2-3	3.08	4031.3237	4030.1849	0.5	24805.748 ^A	-3	2.198	5.273	-2.31 ^a	
		1-2	4.32	4010.8463	4009.7128	0.0	24932.394 ^A	0	2.223	5.314	-1.25 ^a	
		3-3	3.65	4002.7931	4001.6617	0.3	24982.555 ^A	-2	2.176	5.273	-1.90 ^a	
		2-2	4.58	3978.8662	3977.7410	0.0	25132.788 ^A	0	2.198	5.314	-1.12 ^a	
		1-1	2.86	3975.8820	3974.7576	-2.1	25151.652 ^C	13	2.223	5.341	-2.61 ^a	
280	$a^5P-w^5D^o$ (73)	3-2	4.47	3951.0709	3949.9530	0.2	25309.594 ^A	-1	2.176	5.314	-1.25 ^a	
		2-1	3.56	3944.4568	3943.3407	-0.2	25352.033 ^A	1	2.198	5.341	-2.35 ^a	
		3-4	4.11	3853.6652	3852.5727	0.0	25949.322 ^A	0	2.176	5.393	-1.19 ^a	
		2-3	3.92	3817.4233	3816.3402	-0.3	26195.680 ^A	2	2.198	5.446	-1.20 ^a	
		1-2	4.23	3808.6177	3807.5369	-0.1	26256.245 ^A	1	2.223	5.478	-0.99 ^a	
		3-3	3.29	3791.8305	3790.7540	-0.3	26372.487 ^B	2	2.176	5.446	-1.84 ^a	
		2-2	3.12	3779.7702	3778.6968	0.4	26456.635 ^B	-3	2.198	5.478	-2.01 ^a	
		1-1	3.77	3775.8966	3774.8243	0.0	26483.776 ^A	0	2.223	5.506	-1.45 ^a	
		1-0	3.44	3769.0975	3768.0270	0.0	26531.550 ^A	0	2.223	5.512	-1.64 ^a	
		3-2	4.35	3754.6778	3753.6109	0.0	26633.444 ^A	0	2.176	5.478	-0.89 ^a	
		2-1	3.13	3747.5396	3746.4747	-0.6	26684.174 ^B	4	2.198	5.506	-2.41 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
281	$a^5P-v^5D^o$ (75)	2-3	3.79	3782.2603	3781.1863	-0.1	26439.217 ^A	1	2.198	5.476	-1.94 ^a	
		3-4	4.33	3777.5275	3776.4548	0.0	26472.342 ^A	0	2.176	5.458	-1.49 ^a	
		3-3	3.61	3757.1357	3756.0683	0.3	26616.020 ^A	-2	2.176	5.476	-2.12 ^a	
		1-2	3.18	3740.1789	3739.1158	0.3	26736.689 ^B	-2	2.223	5.537	-2.33 ^a	
		3-2	3.75	3688.1467	3687.0971	0.3	27113.889 ^A	-2	2.176	5.537	-1.76 ^a	
282	$a^5P-w^5F^o$ (74)	1-2	3.22	3793.9036	3792.8266	-1.0	26358.076 ^B	7	2.223	5.491	-2.50 ^a	
		1-1	3.18	3780.5817	3779.5082	0.3	26450.956 ^B	-2	2.223	5.502	-2.26 ^a	
		2-2	2.79	3765.2777	3764.2081	-0.3	26558.466 ^C	2	2.198	5.491	...	
		2-1	2.75	3752.1554	3751.0893	0.4	26651.348 ^C	-3	2.198	5.502	...	
		3-2	3.22	3740.3773	3739.3142	-0.1	26735.271 ^B	1	2.176	5.491	-2.32 ^b	
		2-3	3.46	3727.9560	3726.8961	-0.8	26824.351 ^A	6	2.198	5.523	-2.11 ^a	
		3-4	3.82	3722.3308	3721.2724	0.4	26864.888 ^D	-3	2.176	5.507	-1.79 ^a	I
		3-3	3.47	3703.5455	3702.4920	-0.3	27001.153 ^A	2	2.176	5.523	-2.23 ^a	
283	$a^5P-y^5S^o$ (76)	1-2	4.17	3761.6004	3760.5318	-0.3	26584.429 ^A	2	2.223	5.519	-1.23 ^a	
		2-2	4.87	3733.4577	3732.3964	-0.1	26784.822 ^A	1	2.198	5.519	-0.55 ^a	
		3-2	4.97	3708.9748	3707.9199	0.0	26961.628 ^A	0	2.176	5.519	-0.47 ^a	
284	$a^5P-x^3D^o$ (77)	1-2	2.53	3655.7153	3654.6741	2.8	27354.428 ^C	-21	2.223	5.614	...	
		2-3	3.61	3637.1978	3636.1614	-0.4	27493.693 ^D	3	2.198	5.606	-1.87 ^a	I
		2-2	3.18	3629.1260	3628.0916	-0.3	27554.844 ^B	2	2.198	5.614	-2.24 ^a	
		3-2	2.94	3613.9666	3612.9362	9.1	27670.427 ^D	-70	2.176	5.614	...	I
		2-1	2.60	3593.9171	3592.8919	-2.1	27824.793 ^D	16	2.198	5.648	...	
285	$a^5P-w^5P^o$ (78)	1-2	3.40	3522.8438	3521.8368	-0.6	28386.158 ^B	5	2.223	5.742	-1.49 ^a	
		2-3	3.10	3519.8758	3518.8697	1.6	28410.093 ^B	-13	2.198	5.720	-1.96 ^a	
		1-1	2.90	3510.8655	3509.8616	-1.0	28483.005 ^C	8	2.223	5.754	-2.07 ^b	
		2-2	3.47	3498.1488	3497.1482	-0.2	28586.548 ^B	2	2.198	5.742	-1.41 ^a	
		3-3	4.18	3498.1039	3497.1033	-0.1	28586.915 ^A	1	2.176	5.720	-0.94 ^a	
		2-1	3.77	3486.3378	3485.3402	-0.5	28683.394 ^A	4	2.198	5.754	-1.15 ^a	
		3-2	3.75	3476.6467	3475.6516	0.6	28763.348 ^A	-5	2.176	5.742	-1.11 ^a	
286	$a^5P-z^3S^o$ (79)	1-1	2.83	3487.5496	3486.5518	0.9	28673.427 ^C	-7	2.223	5.778	...	
		2-1	3.10	3463.3437	3462.3520	-0.5	28873.831 ^B	4	2.198	5.778	-2.11 ^b	
287	$a^5P-y^3P^o$ (82)	1-0	3.34	3478.8465	3477.8509	-0.6	28745.160 ^B	5	2.223	5.786	-2.12 ^b	
		1-2	3.80	3472.2596	3471.2656	0.0	28799.690 ^A	0	2.223	5.793	-1.44 ^a	
		1-1	4.21	3451.3167	3450.3281	-0.2	28974.449 ^A	2	2.223	5.815	-0.90 ^a	
		2-2	4.21	3448.2660	3447.2782	0.0	29000.083 ^A	0	2.198	5.793	-1.02 ^a	
		2-1	4.11	3427.6106	3426.6280	-0.2	29174.843 ^A	2	2.198	5.815	-0.99 ^a	
		3-2	4.12	3427.3649	3426.3825	0.0	29176.934 ^D	0	2.176	5.793	...	I
288	$a^5P-u^5D^o$ (82a)	1-2	4.21	3452.9035	3451.9145	-0.1	28961.134 ^A	1	2.223	5.813	-1.00 ^a	
		2-3	4.67	3446.1364	3445.1491	-0.1	29018.004 ^A	1	2.198	5.795	-0.54 ^a	
		2-2	4.41	3429.1756	3428.1927	-0.2	29161.528 ^A	2	2.198	5.813	-0.82 ^a	
		3-4	5.14	3428.1022	3427.1195	0.0	29170.659 ^A	0	2.176	5.792	-0.10 ^a	
		3-3	4.50	3425.2663	3424.2844	-0.1	29194.810 ^A	1	2.176	5.795	-0.70 ^a	
		1-0	4.34	3419.4876	3418.5071	-0.1	29244.148 ^A	1	2.223	5.848	-0.76 ^a	
		1-1	4.50	3418.8208	3417.8406	-0.2	29249.851 ^A	2	2.223	5.849	-0.68 ^a	
		3-2	3.44	3408.5094	3407.5317	-0.6	29338.338 ^A	5	2.176	5.813	-1.79 ^a	
		2-1	3.81	3395.5575	3394.5832	-0.1	29450.245 ^A	1	2.198	5.849	-1.35 ^a	
289	$a^5P-x^3F^o$ (83)	1-2	3.86	3416.5109	3415.5312	-0.2	29269.627 ^A	2	2.223	5.851	-1.39 ^a	
		3-4	5.16	3408.4372	3407.4596	0.0	29338.959 ^A	0	2.176	5.813	-0.02 ^a	
		2-3	4.50	3405.3308	3404.3539	-0.1	29365.723 ^A	1	2.198	5.839	-0.88 ^a	
		2-2	4.17	3393.2787	3392.3049	-0.3	29470.023 ^D	3	2.198	5.851	-1.07 ^a	I
		3-3	4.26	3384.9507	3383.9791	0.0	29542.528 ^A	0	2.176	5.839	-1.11 ^a	
		3-2	3.35	3373.0424	3372.0738	0.1	29646.826 ^B	-1	2.176	5.851	-1.96 ^a	
290	$a^5P-z^3H^o$ (84)	3-4	3.54	3383.3732	3382.4020	-0.2	29556.302 ^A	2	2.176	5.840	-1.91 ^a	
291	$a^5P-w^3D^o$ (85)	1-2	4.29	3423.6375	3422.6560	-0.1	29208.700 ^A	1	2.223	5.844	-0.92 ^a	
		2-3	4.79	3414.1114	3413.1324	-0.1	29290.198 ^A	1	2.198	5.829	-0.40 ^a	
		1-1	4.17	3407.7769	3406.7995	-0.1	29344.644 ^A	1	2.223	5.861	-0.96 ^a	
		2-2	4.59	3400.3086	3399.3331	-0.1	29409.095 ^A	1	2.198	5.844	-0.62 ^a	
		3-3	4.56	3393.6262	3392.6524	0.0	29467.005 ^A	0	2.176	5.829	-0.64 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
292	$a^5P-Psp3^1D^o$ (87)	2-1	3.76	3384.6632	3383.6917	-0.1	29545.037 ^A	1	2.198	5.861	-1.37 ^a	
		3-2	3.79	3379.9883	3379.0180	-0.1	29585.901 ^A	1	2.176	5.844	-1.41 ^a	
		1-2	3.29	3390.7150	3389.7419	-0.2	29492.305 ^B	2	2.223	5.879	...	
		2-2	3.71	3367.8312	3366.8639	-0.3	29692.700 ^A	3	2.198	5.879	...	
		3-2	2.86	3347.8967	3346.9345	0.4	29869.500 ^B	-4	2.176	5.879	...	
293	$a^5P-z^1G^o$ (88)	3-4	2.49	3344.2006	3343.2394	2.3	29902.512 ^D	-21	2.176	5.883	...	
294	$a^5P-y^3S^o$ (89)	1-1	3.09	3375.1611	3374.1920	1.1	29628.215 ^B	-10	2.223	5.896	...	
		2-1	3.07	3352.4852	3351.5219	0.2	29828.618 ^B	-2	2.198	5.896	-2.10 ^a	
295	$a^5P-v^5F^o$ (90)	1-2	3.76	3299.0816	3298.1319	-0.4	30311.466 ^D	4	2.223	5.981	-1.13 ^a	I
		3-4	2.88	3291.6600	3290.7122	0.5	30379.808 ^B	-5	2.176	5.942	...	
		2-3	2.92	3289.9127	3288.9653	-0.6	30395.943 ^B	6	2.198	5.966	-1.90 ^a	
		1-1	2.71	3286.9618	3286.0151	-1.1	30423.232 ^C	10	2.223	5.995	...	
		2-2	3.13	3277.4146	3276.4704	0.2	30511.855 ^B	-2	2.198	5.981	-1.59 ^a	
		2-1	3.41	3265.4534	3264.5122	-0.4	30623.619 ^A	4	2.198	5.995	-1.32 ^a	
		3-2	3.69	3258.5321	3257.5927	-0.1	30688.665 ^A	1	2.176	5.981	-1.15 ^a	
296	$a^5P-x^3G^o$ (93)	3-4	2.66	3304.4807	3303.5296	-0.8	30261.941 ^C	7	2.176	5.928	...	
297	$a^5P-v^5P^o$ (91)	1-2	4.48	3307.3066	3306.3548	-2.5	30236.084 ^A	23	2.223	5.971	-0.40 ^a	
		2-3	4.56	3306.9225	3305.9708	-0.1	30239.596 ^A	1	2.198	5.947	-0.33 ^a	
		1-1	3.93	3293.5378	3292.5895	-0.1	30362.487 ^A	1	2.223	5.987	-0.89 ^b	
		3-3	4.71	3287.6998	3286.7530	0.0	30416.402 ^A	0	2.176	5.947	-0.17 ^a	
		2-2	3.46	3285.5337	3284.5875	0.0	30436.455 ^A	0	2.198	5.971	-1.34 ^a	
		2-1	4.24	3271.9427	3270.9999	-0.1	30562.882 ^A	1	2.198	5.987	-0.50 ^b	
		3-2	4.24	3266.5580	3265.6166	0.0	30613.263 ^A	0	2.176	5.971	-0.61 ^a	
298	$a^5P-x^3P^o$ (95)	1-2	3.68	3291.9362	3290.9883	-0.1	30377.259 ^A	1	2.223	5.989	-1.21 ^a	
		1-1	3.42	3269.1750	3268.2329	-0.3	30588.757 ^A	3	2.223	6.015	-1.54 ^a	
		3-2	3.31	3251.5611	3250.6235	0.2	30754.458 ^D	-2	2.176	5.989	-1.52 ^a	I
		2-1	3.65	3247.8974	3246.9607	-0.3	30789.150 ^A	3	2.198	6.015	-1.29 ^a	
299	$a^5P-y^1G^o$ (97)	3-4	1	3210.032	3209.105	1.0	31152.34 ^D	-10	2.176	6.038	...	
300	$a^5P-w^3F^o$ (99)	2-3	2.79	3173.0015	3172.0837	-0.5	31515.901 ^B	5	2.198	6.105	-2.12 ^a	
		3-4	1	3168.698	3167.782	1.0	31558.70 ^D	-10	2.176	6.089	...	
		3-3	2.43	3155.2985	3154.3851	-2.0	31692.723 ^C	20	2.176	6.105	...	
		2-2	2	3153.969	3153.056	6.0	31706.08 ^D	-60	2.198	6.129	...	I
301	$a^5P-v^3D^o$ (100)	1-2	2.70	3193.3322	3192.4093	-1.5	31315.251 ^C	15	2.223	6.105	...	
		1-1	2.32	3187.7311	3186.8096	-2.4	31370.275 ^D	24	2.223	6.112	...	
		2-3	8	3183.894	3182.974	-4.1	31408.08 ^D	40	2.198	6.092	-0.82 ^a	I
		2-2	2.49	3173.0299	3172.1121	1.1	31515.619 ^C	-11	2.198	6.105	...	
		2-1	2	3167.508	3166.592	8.0	31570.56 ^D	-80	2.198	6.112	...	I
		3-3	1	3166.077	3165.161	1.0	31584.83 ^D	-10	2.176	6.092	...	
302	$a^5P-n^7D^o$	3-4	1	3124.170	3123.265	4.9	32008.50 ^D	-50	2.176	6.144	...	
		2-3	0	3117.378	3116.474	1.9	32078.24 ^D	-20	2.198	6.175	...	
		1-2	0	3117.096	3116.193	0.0	32081.14 ^D	0	2.223	6.200	...	
		1-1	0	3103.160	3102.259	1.0	32225.22 ^D	-10	2.223	6.218	...	
		3-3	0*	3100.285	3099.385	-1.9	32255.10 ^D	20	2.176	6.175	...	
303	$a^5P-Fsp3^1F^o$	2-3	2.18	3149.5928	3148.6809	0.1	31750.136 ^D	-1	2.198	6.134	...	
		3-3	0	3132.142	3131.235	-7.8	31927.03 ^D	80	2.176	6.134	...	
304	$a^5P-w^3P^o$ (102)	1-1	d0?	3113.739	3112.836	8.7	32115.73 ^D	-90	2.223	6.204	...	
		1-2	1	3099.870	3098.970	2.9	32259.42 ^D	-30	2.223	6.222	...	
		2-1	0	3094.427	3093.529	5.7	32316.16 ^D	-60	2.198	6.204	...	II
		2-2	d0?	3080.728	3079.833	-0.9	32459.86 ^D	10	2.198	6.222	...	
		3-2	1	3064.042	3063.151	1.9	32636.63 ^D	-20	2.176	6.222	...	
305	$a^5P-u^5F^o$ (UV117)	3-4	1	2955.846	2954.983	0.9	33831.26 ^D	-10	2.176	6.370	...	I
		2-3	1	2950.543	2949.681	0.9	33892.07 ^D	-10	2.198	6.400	...	
		1-2	1	2949.847	2948.985	-2.6	33900.06 ^D	30	2.223	6.426	...	
		1-1	1	2939.580	2938.720	-2.6	34018.47 ^D	30	2.223	6.440	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
306	$a^5P-x^3H^\circ$	3-3	3	2935.229	2934.371	0.0	34068.89 ^D	0	2.176	6.400	...	
		2-2	d0?	2932.515	2931.658	0.0	34100.42 ^D	0	2.198	6.426	...	
		3-4	0	2953.427	2952.564	-1.7	33858.97 ^D	20	2.176	6.374	...	
307	$a^5P-t^5D^\circ$ (UV118,10)	3-4	3.43	2982.7210	2981.8509	0.9	33526.434 ^D	-10	2.176	6.332	-0.56 ^a	I
		2-3	2.97	2973.1461	2972.2784	-0.4	33634.405 ^B	5	2.198	6.368	...	
		1-2	2.56	2967.1285	2966.2622	-0.2	33702.619 ^B	2	2.223	6.401	...	
		1-1	2.45	2949.8116	2948.9497	0.0	33900.470 ^B	0	2.223	6.426	...	
		2-2	2.36	2949.5889	2948.7270	-1.7	33903.030 ^C	20	2.198	6.401	...	
308	$a^5P-v^3F^\circ$ (UV119,10)	2-3	1	2972.804	2971.936	3.5	33638.28 ^D	-40	2.198	6.368	...	
		3-4	0	2962.576	2961.711	0.9	33754.41 ^D	-10	2.176	6.361	...	
309	$a^5P-u^5P^\circ$ (UV121)	3-3	2.32	2928.9592	2928.1024	0.4	34141.821 ^C	-5	2.176	6.409	...	
		2-2	d2	2922.457	2921.602	0.9	34217.78 ^D	-10	2.198	6.440	...	
		3-2	0	2907.435	2906.583	1.7	34394.58 ^D	-20	2.176	6.440	...	II
310	$a^5P-u^3D^\circ$	3-3	0	2905.382	2904.531	2.5	34418.88 ^D	-30	2.176	6.443	...	
		2-2	0	2892.692	2891.844	3.3	34569.88 ^D	-40	2.198	6.484	...	
311	$a^5P-^2P4p^1P^\circ$	2-1	0	2902.435	2901.585	0.0	34453.83 ^D	0	2.198	6.469	...	
312	$a^5P-t^3D^\circ$	2-3	3	2899.712	2898.863	5.0	34486.18 ^D	-60	2.198	6.473	...	
		1-2	d0?	2877.244	2876.400	4.1	34755.48 ^D	-50	2.223	6.532	...	
313	$a^5P-^4F5p^3G^\circ$	3-4	d0	2742.169	2741.358	-6.0	36467.48 ^D	80	2.176	6.697	...	
314	$a^5P-v^3P^\circ$ (UV123)	2-2	2.00	2841.7727	2840.9374	0.1	35189.303 ^C	-1	2.198	6.561	-1.84 ^a	
		3-2	d1	2827.571	2826.740	5.6	35366.04 ^D	-70	2.176	6.561	...	II
		2-1	d0?	2816.670	2815.841	2.4	35502.92 ^D	-30	2.198	6.599	...	
315	$a^5P-Gsp3^3F^\circ$	2-3	d0	2806.586	2805.759	3.2	35630.48 ^D	-40	2.198	6.615	...	
		3-3	d0?	2792.723	2791.899	-0.8	35807.35 ^D	10	2.176	6.615	...	
		1-2	1	2791.581	2790.758	1.6	35822.00 ^D	-20	2.223	6.664	...	II
		2-2	0	2776.049	2775.230	0.0	36022.42 ^D	0	2.198	6.664	...	
316	$a^5P-^4F5p^5G^\circ$	3-4	1	2754.681	2753.867	6.1	36301.85 ^D	-80	2.176	6.677	...	
		2-3	$I^{\frac{1}{2}}$	2746.668	2745.856	-6.0	36407.75 ^D	80	2.198	6.712	...	
		2-2	0	2737.422	2736.612	-2.2	36530.72 ^D	30	2.198	6.727	...	
317	$a^5P-^4F5p^5F^\circ$ (UV126*)	3-4	2.42	2790.2989	2789.4762	-0.2	35838.455 ^B	2	2.176	6.619	...	
		2-3	1.89	2782.8722	2782.0513	-0.8	35934.097 ^C	10	2.198	6.653	...	
		3-3	2.24	2769.2490	2768.4315	1.7	36110.873 ^D	-22	2.176	6.653	...	I
		1-2	2.35	2768.9214	2768.1039	-0.3	36115.146 ^B	4	2.223	6.700	...	
		1-1	0	2755.047	2754.233	0.8	36297.02 ^D	-10	2.223	6.723	...	
		2-1	1.43	2739.9153	2739.1048	-3.8	36497.479 ^D	50	2.198	6.723	...	
318	$a^5P-^4F5p^3F^\circ$	3-4	1	2794.967	2794.143	3.9	35778.60 ^D	-50	2.176	6.612	...	
		2-3	2.70	2735.0765	2734.2673	-0.4	36562.048 ^D	5	2.198	6.731	...	I
		3-3	1.96	2721.9130	2721.1069	-1.3	36738.867 ^D	18	2.176	6.731	...	
319	$a^5P-^4F5p^5D^\circ$	2-3	2.24	2773.3272	2772.5086	-1.1	36057.772 ^B	14	2.198	6.668	...	
		3-4	2.38	2773.1382	2772.3197	-0.1	36060.229 ^B	1	2.176	6.647	...	
		3-3	2.00	2759.7985	2758.9833	2.7	36234.529 ^D	-36	2.176	6.668	...	
		2-1	2.57	2711.7778	2710.9741	-2.2	36876.178 ^D	30	2.198	6.770	...	
320	$a^5P-Dsp3^5F^\circ$	1-1	0	2795.676	2794.852	-2.3	35769.52 ^D	30	2.223	6.657	...	
		1-2	1	2793.631	2792.807	-0.8	35795.71 ^D	10	2.223	6.661	...	
		2-2	d0	2778.086	2777.266	5.4	35996.01 ^D	-70	2.198	6.661	...	
		2-3	3?	2777.270	2776.451	1.8	36006.58 ^D	-23	2.198	6.662	...	
321	$a^5P-x^1F^\circ$ (UV127)	2-3	1	2774.983	2774.164	1.5	36036.26 ^D	-20	2.198	6.666	...	
		3-3	1.64	2761.4286	2760.6129	-3.4	36213.140 ^D	44	2.176	6.666	...	II
322	$a^5P-x^3S^\circ$	1-1	2	2786.993	2786.172	0.8	35880.96 ^D	-10	2.223	6.671	...	
		2-1	1.98	2771.5132	2770.6951	-0.5	36081.372 ^C	7	2.198	6.671	...	
323	$a^5P-^4F5p^3D^\circ$	2-3	2.24	2769.2490	2768.4315	-1.0	36110.873 ^D	13	2.198	6.675	...	I
		3-3	2.12	2755.7577	2754.9434	0.5	36287.660 ^B	-7	2.176	6.675	...	
		1-2	2.27	2746.0924	2745.2805	1.1	36415.380 ^D	-14	2.223	6.737	...	II

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
324	<i>a</i> ⁵ <i>P</i> – <i>D</i> <i>sp</i> 3 ⁵ <i>D</i> ^o (UV128*)	3–2	0	2717.937	2717.132	-0.7	36792.61 ^D	10	2.176	6.737	...	
		1–2	2.83	2778.8875	2778.0676	0.8	35985.624 ^D	-11	2.223	6.684	...	II
		1–1	2.71	2774.0514	2773.2326	0.0	36048.359 ^B	0	2.223	6.692	...	
		2–3	2.88	2765.1397	2764.3231	-0.2	36164.538 ^A	3	2.198	6.681	...	
		2–2	2.06	2763.4975	2762.6813	0.0	36186.029 ^D	0	2.198	6.684	...	I
		3–3	2.92	2751.6869	2750.8736	-0.2	36341.344 ^A	2	2.176	6.681	...	
325	<i>a</i> ⁵ <i>P</i> – <i>t</i> ³ <i>G</i> ^o	3–4	2.77	2721.0026	2720.1967	-0.2	36751.159 ^A	3	2.176	6.732	...	
		3–3	0	2699.039	2698.239	-3.6	37050.22 ^D	50	2.176	6.769	...	
326	<i>a</i> ⁵ <i>P</i> – <i>t</i> ⁵ <i>P</i> ^o (UV125)	1–2	2.56	2763.5878	2762.7716	-0.1	36184.846 ^B	1	2.223	6.709	...	
		1–1	2.15	2751.5100	2750.6968	-0.2	36343.680 ^B	3	2.223	6.729	...	
		2–2	2.46	2748.3670	2747.5545	-0.2	36385.242 ^B	3	2.198	6.709	...	
		3–3	2.93	2743.1430	2742.3318	0.0	36454.534 ^A	0	2.176	6.696	...	
		2–1	2.83	2736.4218	2735.6122	-0.2	36544.074 ^A	3	2.198	6.729	...	
		3–2	2.70	2735.0765	2734.2673	-0.1	36562.048 ^D	2	2.176	6.709	...	I
327	<i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> 6 <i>p</i> ⁷ <i>D</i> ^o	3–4	0	2566.300	2565.531	-2.6	38966.60 ^D	40	2.176	7.007	...	
		3–2	3	2539.160	2538.397	5.2	39383.11 ^D	-80	2.176	7.059	...	II
328	<i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> 6 <i>p</i> ⁷ <i>F</i> ^o	2–2	0	2537.206	2536.444	0.0	39413.43 ^D	0	2.198	7.084	...	
		3–3	1.51	2533.1353	2532.3742	0.3	39476.770 ^C	-5	2.176	7.070	...	
		3–2	6	2525.871	2525.111	-4.5	39590.31 ^D	70	2.176	7.084	...	II
329	<i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> 6 <i>p</i> ⁷ <i>P</i> ^o	3–4	d0?	2564.667	2563.898	0.0	38991.42 ^D	0	2.176	7.010	...	
		2–3	1.23	2553.5343	2552.7683	1.5	39161.409 ^C	-23	2.198	7.053	...	
		1–2	7	2546.943	2546.179	4.5	39262.75 ^D	-70	2.223	7.090	...	I
		1–2	2.41	2546.9392	2546.1748	0.8	39262.814 ^D	-13	2.223	7.090	...	I
		3–3	1.72	2542.0565	2541.2932	0.6	39338.229 ^D	-10	2.176	7.053	...	
330	<i>a</i> ⁵ <i>P</i> – <i>u</i> ³ <i>F</i> ^o	3–3	1.81	2548.8650	2548.1001	-0.8	39233.149 ^C	12	2.176	7.040	...	
331	<i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> 6 <i>p</i> ⁵ <i>F</i> ^o	1–1	0?	2524.030	2523.271	-5.1	39619.18 ^D	80	2.223	7.135	...	I
		1–2	2	2522.380	2521.621	1.3	39645.10 ^D	-20	2.223	7.138	...	
		2–2	4	2509.697	2508.942	5.0	39845.44 ^D	-80	2.198	7.138	...	I
		3–2	1.52	2498.6061	2497.8530	0.9	40022.315 ^C	-14	2.176	7.138	...	
332	<i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> 6 <i>p</i> ⁵ <i>D</i> ^o	3–4	0	2552.179	2551.414	-2.6	39182.20 ^D	40	2.176	7.034	...	
		2–3	1	2535.396	2534.634	-1.9	39441.57 ^D	30	2.198	7.088	...	
		1–2	0	2532.393	2531.632	1.9	39488.34 ^D	-30	2.223	7.118	...	
		3–3	1.63	2524.0827	2523.3236	-0.5	39618.354 ^C	8	2.176	7.088	...	
333	<i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{4,5} 4 <i>f</i> [3.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{4,5} 4 <i>f</i> [2.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{4,5} 4 <i>f</i> [2.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{4,5} 4 <i>f</i> [1.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{4,5} 4 <i>f</i> [4.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{4,5} 4 <i>f</i> [3.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{4,5} 4 <i>f</i> [3.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{4,5} 4 <i>f</i> [1.5] ^o	2–3	0	2561.534	2560.767	-2.0	39039.10 ^D	30	2.198	7.038	...	
		2–3	d0?	2560.796	2560.028	-5.2	39050.36 ^D	80	2.198	7.039	...	
		2–2	1	2560.652	2559.884	-0.7	39052.56 ^D	10	2.198	7.040	...	
		2–1	1	2559.860	2559.092	0.0	39064.64 ^D	0	2.198	7.041	...	
		3–4	1	2550.714	2549.949	2.0	39204.71 ^D	-30	2.176	7.036	...	
		3–4	1.41	2550.0720	2549.3069	0.2	39214.579 ^D	-3	2.176	7.038	...	
		3–3	1	2549.991	2549.226	2.6	39215.82 ^D	-40	2.176	7.038	...	
		3–2	1	2548.454	2547.689	1.9	39239.48 ^D	-30	2.176	7.041	...	
334	<i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> 6 <i>p</i> ⁵ <i>P</i> ^o	2–3	1.41	2554.6474	2553.8812	0.5	39144.345 ^D	-8	2.198	7.051	...	
		3–3	2*	2543.155	2542.391	-4.5	39321.24 ^D	70	2.176	7.051	...	II
		1–2	2	2531.018	2530.257	0.0	39509.80 ^D	0	2.223	7.121	...	
		2–2	d0?	2518.239	2517.481	-5.1	39710.29 ^D	80	2.198	7.121	...	
		3–2	d0	2507.084	2506.329	1.9	39886.98 ^D	-30	2.176	7.121	...	
		2–1	1.72	2499.0950	2498.3418	-0.2	40014.485 ^C	4	2.198	7.159	...	
335	<i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{3,5} 4 <i>f</i> [1.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{3,5} 4 <i>f</i> [0.5] ^o <i>a</i> ⁵ <i>P</i> – <i>s</i> ⁶ <i>D</i> _{3,5} 4 <i>f</i> [3.5] ^o	1–2	0	2549.273	2548.508	0.6	39226.87 ^D	-10	2.223	7.086	...	
		1–0	0	2549.158	2548.393	1.9	39228.64 ^D	-30	2.223	7.086	...	
		3–4	2	2525.322	2524.563	0.6	39598.91 ^D	-10	2.176	7.085	...	II
336	<i>a</i> ⁵ <i>P</i> – <i>D</i> <i>sp</i> 1 ³ <i>D</i> ^o	1–2	d0?	2554.438	2553.671	-2.0	39147.56 ^D	30	2.223	7.076	...	I
		2–2	13*	2541.426	2540.663	-3.9	39347.99 ^D	60	2.198	7.076	...	I
		2–3	0?	2524.030	2523.271	-1.3	39619.18 ^D	20	2.198	7.110	...	I
337	<i>a</i> ⁵ <i>P</i> – <i>t</i> ³ <i>F</i> ^o	2–3	0	2505.382	2504.628	-3.8	39914.07 ^D	60	2.198	7.146	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
338	$a^5P-sp1^3D^o$	2-3	2	2510.147	2509.391	0.0	39838.31 ^D	0	2.198	7.137	...	
339	$a^5P-s^6D_{1.54f}[2.5]^o$	1-2	1	2518.556	2517.798	-1.3	39705.29 ^D	20	2.223	7.145	...	
	$a^5P-s^6D_{1.54f}[3.5]^o$	2-3	0	2505.296	2504.542	-2.5	39915.44 ^D	40	2.198	7.147	...	
	$a^5P-s^6D_{1.54f}[2.5]^o$	3-3	1.73	2494.9546	2494.2023	1.2	40080.890 ^D	-20	2.176	7.145	...	II
340	$a^5P-s^6D_{0.54f}[3.5]^o$	2-3	1	2498.876	2498.122	-3.1	40018.00 ^D	50	2.198	7.159	...	
	$a^5P-s^6D_{0.54f}[3.5]^o$	3-4	d0?	2487.994	2487.244	-4.3	40193.02 ^D	70	2.176	7.159	...	
341	$a^5P-s^4D5p^3D^o$	2-3	0	2466.138	2465.392	1.8	40549.23 ^D	-30	2.198	7.225	...	
		3-2	1.49	2464.1417	2463.3966	-1.0	40582.081 ^D	17	2.176	7.207	...	e
		2-1	0?	2458.944	2458.200	0.6	40667.86 ^D	-10	2.198	7.240	...	
342	$a^3P-z^7P^o$	1-2	1.41	20183.903	20178.395	-20	4954.443 ^C	5	2.424	3.038	...	
343	$a^3P-z^5D^o$	0-1	0.48	15524.172	15519.932	-7	6441.567 ^B	3	2.484	3.283	...	
		1-2	1.72	14733.581	14729.555	0	6787.216 ^A	0	2.424	3.266	...	
		1-1	1.20	14436.472	14432.527	2	6926.900 ^A	-1	2.424	3.283	...	
		2-3	2.96	12883.292	12879.769	0	7761.991 ^A	0	2.279	3.241	-3.46 ^a	
		2-2	2.51	12560.434	12556.999	0	7961.508 ^A	0	2.279	3.266	-3.63 ^a	
		2-1	1.71	12343.864	12340.487	3	8101.191 ^A	-2	2.279	3.283	...	
344	$a^3P-z^5F^o$	2-3	1.43	11090.774	11087.737	1	9016.503 ^A	-1	2.279	3.396	...	
345	$a^3P-z^5P^o$ (106)	1-2	1.64	10084.158	10081.394	0	9916.544 ^A	0	2.424	3.654	...	
		1-1	0.95	9822.9357	9820.2429	1.0	10180.256 ^B	-1	2.424	3.686	...	
		2-3	2.74	9364.9304	9362.3616	0.9	10678.136 ^A	-1	2.279	3.602	-3.15 ^a	
		2-2	2.12	9016.4520	9013.9776	0.0	11090.837 ^A	0	2.279	3.654	...	
		2-1	2.55	8807.0437	8804.6258	0.0	11354.548 ^A	0	2.279	3.686	-3.23 ^b	
346	$a^3P-z^3F^o$ (107)	1-2	0.85	7948.1728	7945.9871	2.5	12581.508 ^A	-4	2.424	3.984	...	
347	$a^3P-z^3D^o$ (108)	0-1	2.35	8403.7088	8401.4000	0.0	11899.508 ^A	0	2.484	3.960	...	
		1-2	2.71	8241.3930	8239.1281	0.7	12133.871 ^A	-1	2.424	3.928	-3.18 ^a	
		1-1	1.82	8074.3845	8072.1647	0.7	12384.845 ^A	-1	2.424	3.960	...	
		2-3	2.64	7725.3335	7723.2080	0.6	12944.425 ^A	-1	2.279	3.883	-3.62 ^b	
348	$a^3P-y^5D^o$ (109)	1-0	2.00	6863.8354	6861.9420	4.7	14569.114 ^C	-10	2.424	4.230	-3.89 ^b	
		2-3	3.27	6609.8510	6608.0260	0.9	15128.934 ^A	-2	2.279	4.154	-4.03 ^b	
		2-2	4.20	6483.6614	6481.8703	0.0	15423.384 ^A	0	2.279	4.191	-2.98 ^b	
		2-1	3.01	6394.3059	6392.5388	0.4	15638.914 ^A	-1	2.279	4.217	-4.03 ^b	
349	$a^3P-y^5F^o$ (110)	1-1	2.34	6605.1642	6603.3404	0.0	15139.669 ^B	0	2.424	4.301	...	
350	$a^3P-z^3P^o$ (111)	0-1	2.53	6980.7765	6978.8516	0.5	14325.054 ^A	-1	2.484	4.260	-2.50 ^b	
		1-2	2.57	6947.1210	6945.2052	0.5	14394.452 ^A	-1	2.424	4.209	-2.48 ^b	
		1-1	4.72	6752.0157	6750.1525	0.9	14810.392 ^A	-2	2.424	4.260	-2.62 ^b	
		1-0	4.80	6665.2821	6663.4421	0.9	15003.116 ^A	-2	2.424	4.284	-2.48 ^b	
		2-2	5.41	6423.1257	6421.3508	0.8	15568.744 ^A	-2	2.279	4.209	-2.03 ^b	
		2-1	3.71	6255.9885	6254.2585	0.8	15984.684 ^A	-2	2.279	4.260	-2.43 ^a	
351	$a^3P-z^3G^o$	2-3	0.60	5649.3342	5647.7667	-5.4	17701.201 ^C	17	2.279	4.473	...	
352	$a^3P-y^3F^o$ (112)	1-2	2.13	5565.2400	5563.6950	1.2	17968.677 ^B	-4	2.424	4.652	...	
		2-3	2.92	5323.5213	5322.0408	-0.3	18784.559 ^A	1	2.279	4.607	-2.80 ^a	
353	$a^3P-y^5P^o$ (113)	1-2	0.60	5680.1774	5678.6016	0.6	17605.084 ^B	-2	2.424	4.607	-4.67 ^b	
		2-3	2.15	5438.1072	5436.5962	8.3	18388.751 ^A	-28	2.279	4.558	-2.96 ^a	
354	$a^3P-y^3D^o$ (114)	0-1	3.50	5274.8411	5273.3736	0.0	18957.917 ^A	0	2.484	4.835	-2.16 ^a	
		1-2	3.94	5228.6059	5227.1507	0.5	19125.557 ^A	-2	2.424	4.795	...	
		1-1	3.45	5143.1715	5141.7390	0.0	19443.256 ^A	0	2.424	4.835	-2.24 ^a	
		2-3	4.44	5051.2278	5049.8198	-0.3	19797.167 ^A	1	2.279	4.733	-1.36 ^a	
		2-2	3.59	4926.1443	4924.7695	-0.2	20299.852 ^A	1	2.279	4.795	-2.11 ^a	
		2-1	2.39	4850.2382	4848.8836	0.7	20617.544 ^B	-3	2.279	4.835	-3.14 ^a	
355	$a^3P-x^5D^o$ (115)	0-1	1.78	4909.9693	4908.5988	-6.3	20366.726 ^D	26	2.484	5.009	-4.16 ^b	
		1-2	2.20	4835.8577	4834.5069	0.2	20678.855 ^B	-1	2.424	4.988	-3.41 ^b	
		2-3	2.92	4631.4170	4630.1203	0.2	21591.664 ^A	-1	2.279	4.955	-2.59 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
356	$a^3P-z^5S^o$ (116)	2-2	2.47	4576.0000	4574.7179	0.0	21853.147 ^A	0	2.279	4.988	-2.97 ^b	
357	$a^3P-x^5P^o$ (117)	2-2	2.83	4441.1272	4439.8808	-0.8	22516.806 ^B	4	2.279	5.070	-3.00 ^b	
		2-1	2.46	4084.7020	4083.5492	-0.2	24481.590 ^A	1	2.279	5.314	-2.64 ^a	
				4048.4473	4047.3040	1.0	24700.828 ^C	-6	2.279	5.341	-2.80 ^a	
358	$a^3P-w^5D^o$ (120)	0-1	2.33	4102.8425	4101.6849	-0.8	24373.346 ^C	5	2.484	5.506	-2.59 ^b	
		1-2	3.09	4059.9003	4058.7539	0.2	24631.147 ^A	-1	2.424	5.478	-2.09 ^a	
		1-1	1.95	4022.7394	4021.6028	-0.3	24858.682 ^C	2	2.424	5.506	...	
		2-3	3.66	3914.7402	3913.6318	0.2	25544.479 ^A	-1	2.279	5.446	-1.66 ^b	
		2-2	2.68	3875.1516	3874.0535	-0.5	25805.442 ^C	3	2.279	5.478	...	
359	$a^3P-v^5D^o$ (122)	2-3	2.79	3877.7691	3876.6703	-0.8	25788.023 ^C	5	2.279	5.476	...	
360	$a^3P-y^5S^o$ (123)	1-2	2.49	4006.5184	4005.3861	1.0	24959.326 ^B	-6	2.424	5.519	...	
		2-2	3.06	3826.4882	3825.4027	0.1	26133.623 ^B	-1	2.279	5.519	-2.15 ^a	
361	$a^3P-x^3D^o$ (124)	0-1	3.90	3919.4249	3918.3153	0.2	25513.947 ^A	-1	2.484	5.648	-1.38 ^a	
		1-2	4.22	3886.6117	3885.5106	0.2	25729.352 ^A	-1	2.424	5.614	-1.09 ^a	
		1-1	3.90	3846.2595	3845.1689	0.1	25999.286 ^A	-1	2.424	5.648	-1.39 ^a	
		2-3	4.61	3725.4362	3724.3770	-0.1	26842.494 ^A	1	2.279	5.606	-0.82 ^a	
		2-2	3.88	3716.9686	3715.9116	0.1	26903.644 ^A	-1	2.279	5.614	-1.57 ^b	
362	$a^3P-w^5P^o$ (127)	2-2	2.70	3579.6981	3578.6765	4.0	27935.317 ^D	-31	2.279	5.742	-1.81 ^b	
		2-1	2.78	3567.3282	3566.3098	1.1	28032.184 ^C	-9	2.279	5.754	-1.78 ^b	
363	$a^3P-z^3S^o$ (128)	0-1	2.72	3764.6380	3763.5686	3.0	26562.979 ^C	-21	2.484	5.778	...	
		1-1	2.53	3697.0821	3696.0302	-2.7	27048.358 ^C	20	2.424	5.778	...	
		2-1	3.54	3543.2556	3542.2434	-0.4	28222.632 ^B	3	2.279	5.778	...	
364	$a^3P-y^3P^o$ (131)	0-1	3.44	3722.4519	3721.3934	0.0	26864.014 ^A	0	2.484	5.815	-1.38 ^a	
		1-0	3.66	3687.3073	3686.2580	-0.1	27120.061 ^A	1	2.424	5.786	-1.62 ^b	
		1-2	3.86	3679.9078	3678.8603	-0.1	27174.594 ^A	1	2.424	5.793	-1.33 ^a	
		1-1	2.68	3656.3927	3655.3513	-1.2	27349.360 ^C	9	2.424	5.815	...	
		2-2	4.30	3527.4756	3526.4675	0.0	28348.885 ^A	0	2.279	5.793	-0.92 ^a	
		2-1	3.28	3505.8638	3504.8612	0.4	28523.641 ^B	-3	2.279	5.815	-1.79 ^a	
365	$a^3P-u^5D^o$ (130)	1-2	3.27	3658.1747	3657.1329	-0.1	27336.037 ^B	1	2.424	5.813	-1.91 ^a	
		2-3	4.00	3525.2473	3524.2398	0.0	28366.804 ^A	0	2.279	5.795	-1.18 ^a	
		2-2	4.02	3507.5007	3506.4977	-0.1	28510.329 ^A	1	2.279	5.813	-1.17 ^a	
		2-1	3.73	3472.3371	3471.3431	-0.2	28799.047 ^A	2	2.279	5.849	-1.40 ^a	
366	$a^3P-x^3F^o$ (132)	1-2	3.13	3617.3512	3616.3199	-0.9	27644.537 ^B	7	2.424	5.851	-2.17 ^a	
		2-3	2.49	3482.5601	3481.5635	1.8	28714.508 ^D	-15	2.279	5.839	...	
367	$a^3P-w^3D^o$ (133)	0-1	3.18	3671.8528	3670.8075	0.3	27234.207 ^B	-2	2.484	5.861	-1.96 ^a	
		1-2	3.10	3625.3413	3624.3079	-0.9	27583.610 ^B	7	2.424	5.844	-2.00 ^a	
		1-1	3.26	3607.5622	3606.5334	-0.4	27719.550 ^B	3	2.424	5.861	-1.73 ^a	
		2-3	3.09	3491.7428	3490.7438	0.6	28638.994 ^C	-5	2.279	5.829	...	
368	$a^3P-P_{sp}3^1D^o$ (134)	1-2	3.97	3588.4469	3587.4231	-0.3	27867.209 ^A	2	2.424	5.879	...	
		2-2	4.08	3443.3484	3442.3619	0.0	29041.499 ^A	0	2.279	5.879	-1.39 ^b	
369	$a^3P-y^3S^o$ (135)	0-1	3.70	3634.0125	3632.9769	0.0	27517.792 ^A	0	2.484	5.896	-1.44 ^a	
		1-1	4.03	3571.0296	3570.0103	0.1	28003.128 ^A	-1	2.424	5.896	-1.46 ^a	
		2-1	3.43	3427.3068	3426.3243	-0.8	29177.429 ^A	7	2.279	5.896	-1.62 ^a	
370	$a^3P-v^5F^o$ (138)	1-2	3.01	3485.9760	3484.9785	-0.5	28686.371 ^D	4	2.424	5.981	-1.78 ^a	II
		2-2	3.46	3348.8879	3347.9255	-0.1	29860.659 ^A	1	2.279	5.981	-1.38 ^a	
371	$a^3P-v^5P^o$ (137)	0-1	2.51	3539.5647	3538.5534	-1.1	28252.062 ^D	9	2.484	5.987	...	
		2-3	2.71	3379.7034	3378.7332	0.2	29588.395 ^C	-2	2.279	5.947	...	
		2-2	3.14	3357.3660	3356.4015	0.3	29785.254 ^D	-3	2.279	5.971	-1.88 ^a	I
		2-1	3.24	3343.1753	3342.2144	0.0	29911.683 ^B	0	2.279	5.987	...	
372	$a^3P-x^3P^o$ (139)	0-1	3.48	3511.4431	3510.4391	0.0	28478.320 ^B	0	2.484	6.015	-1.46 ^a	
		1-2	3.08	3477.9992	3477.0038	-0.1	28752.163 ^B	1	2.424	5.989	...	
		1-0	3.72	3459.2940	3458.3033	-0.1	28907.633 ^A	1	2.424	6.008	-1.28 ^a	
		1-1	3.34	3452.6023	3451.6134	-0.4	28963.660 ^B	3	2.424	6.015	-1.57 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
373	$a^3P-w^3F^o$ (141)	2-2	3.55	3341.5249	3340.5643	-0.2	29926.457 ^A	2	2.279	5.989	-1.38 ^a	II
		2-1	3.20	3318.0755	3317.1209	-0.3	30137.952 ^B	3	2.279	6.015	-1.81 ^b	
		2-3	2.63	3239.9466	3239.0119	-0.8	30864.706 ^C	8	2.279	6.105	...	
374	$a^3P-v^3D^o$ (142)	1-2	2.83	3368.1213	3367.1540	-0.1	29690.142 ^B	1	2.424	6.105	...	
		1-1	2.46	3361.8906	3360.9248	-1.5	29745.168 ^C	13	2.424	6.112	...	
		2-2	2.23	3239.9769	3239.0421	1.6	30864.418 ^D	-15	2.279	6.105	...	
		2-1	2.28	3234.2128	3233.2795	2.2	30919.425 ^D	-21	2.279	6.112	...	
375	$a^3P-n^7D^o$	2-3	d0	3181.964	3181.044	-6.1	31427.13 ^D	60	2.279	6.175	...	
376	$a^3P-Fsp3^1F^o$ (143*)	2-3	2.30	3215.5412	3214.6127	-2.7	31098.964 ^D	26	2.279	6.134	...	
377	$a^3P-w^3P^o$ (144)	0-1	2.88	3332.7333	3331.7750	-0.7	30005.401 ^D	6	2.484	6.204	...	II
		1-0	2.73	3289.5963	3288.6490	-0.3	30398.867 ^C	3	2.424	6.193	...	
		1-2	2.84	3264.3103	3263.3694	1.2	30634.343 ^B	-11	2.424	6.222	...	
		2-1	2.76	3158.0573	3157.1432	-1.2	31665.037 ^B	12	2.279	6.204	-2.09 ^a	
		2-2	3.40	3143.7993	3142.8889	0.0	31808.646 ^A	0	2.279	6.222	-1.38 ^a	
378	$a^3P-z^1F^o$	2-3	2.23	3104.7530	3103.8524	0.8	32208.681 ^D	-8	2.279	6.272	...	II
379	$a^3P-u^5F^o$	2-3	d0	3008.348	3007.471	3.6	33240.84 ^D	-40	2.279	6.400	...	
		2-1	d0?	2979.066	2978.197	4.4	33567.57 ^D	-50	2.279	6.440	...	
380	$a^3P-t^5D^o$	2-3	0	3031.841	3030.959	-4.6	32983.26 ^D	50	2.279	6.368	...	II
381	$a^3P-v^3F^o$ (145)	2-2	1	3046.632	3045.746	-1.9	32823.13 ^D	20	2.279	6.348	...	
		2-3	2.34	3031.4860	3030.6038	0.1	32987.122 ^D	-1	2.279	6.368	...	
382	$a^3P-u^3G^o$	2-3	2.26	2989.7544	2988.8826	2.0	33447.563 ^D	-22	2.279	6.425	...	
383	$a^3P-u^5P^o$	1-1	d0?	3071.432	3070.540	1.9	32558.10 ^D	-20	2.424	6.461	...	
		2-2	d0	2979.151	2978.282	-0.9	33566.61 ^D	10	2.279	6.440	...	
		2-1	0	2964.508	2963.642	0.0	33732.41 ^D	0	2.279	6.461	...	
384	$a^3P-y^1D^o$	1-2	2	3109.859	3108.957	1.9	32155.80 ^D	-20	2.424	6.411	...	
385	$a^3P-x^1D^o$	1-2	2	3104.669	3103.769	3.9	32209.55 ^D	-40	2.424	6.417	...	
386	$a^3P-u^3D^o$ (UV132,14)	0-1	3.08	3079.3265	3078.4322	0.3	32474.634 ^B	-3	2.484	6.510	-1.19 ^a	
		1-2	3.31	3053.9535	3053.0656	-0.2	32744.441 ^A	2	2.424	6.484	-0.97 ^a	
		1-1	3	3033.981	3033.098	-1.8	32960.00 ^D	20	2.424	6.510	-1.66 ^a	
		2-3	3.18	2976.9953	2976.1266	-0.4	33590.916 ^A	4	2.279	6.443	-1.04 ^a	
		2-2	2.85	2948.2236	2947.3621	0.1	33918.730 ^B	-1	2.279	6.484	-1.22 ^a	
		2-1	2.46	2929.6066	2928.7497	-0.8	34134.276 ^C	9	2.279	6.510	...	
387	$a^3P-^2P4p^1P^o$	0-1	2.40	3111.0972	3110.1950	0.1	32143.001 ^C	-1	2.484	6.469	...	I
		1-1	2.71	3064.8201	3063.9295	-0.4	32628.343 ^B	4	2.424	6.469	...	
		2-1	2.86	2958.3486	2957.4846	-0.9	33802.642 ^B	10	2.279	6.469	-1.29 ^a	
388	$a^3P-t^3D^o$ (UV132,14)	2-3	3.15	2955.5157	2954.6523	-0.1	33835.043 ^A	1	2.279	6.473	-1.01 ^a	
		2-2	2.34	2915.0499	2914.1966	0.0	34304.730 ^C	0	2.279	6.532	...	
		2-1	3.21	2900.2642	2899.4146	-0.3	34479.617 ^D	3	2.279	6.553	-0.75 ^a	
389	$a^3P-^4F5p^3G^o$	2-3	3	2779.383	2778.563	0.0	35979.21 ^D	0	2.279	6.739	...	
390	$a^3P-v^3P^o$ (UV134,14)	0-1	2.28	3012.7625	3011.8849	-0.6	33192.129 ^D	7	2.484	6.599	...	
		1-2	3.15	2997.2594	2996.3857	0.1	33363.812 ^A	-1	2.424	6.561	-0.94 ^a	
		1-1	2.65	2969.3446	2968.4779	-0.4	33677.465 ^B	5	2.424	6.599	-1.49 ^a	
		2-2	3.45	2895.3527	2894.5042	-0.2	34538.107 ^A	2	2.279	6.561	-0.52 ^a	
		2-1	2.49	2869.2961	2868.4541	-0.2	34851.753 ^B	2	2.279	6.599	-1.27 ^a	
391	$a^3P-Gsp3^3F^o$	1-2	1	2924.245	2923.389	5.1	34196.86 ^D	-60	2.424	6.664	...	I
		2-3	2.00	2858.8325	2857.9930	1.0	34979.314 ^D	-12	2.279	6.615	...	
392	$a^3P-^4F5p^5G^o$	2-3	d6	2796.690	2795.865	-7.0	35756.56 ^D	90	2.279	6.712	...	
393	$a^3P-^4F5p^5F^o$	1-2	d0?	2899.391	2898.542	3.4	34490.00 ^D	-40	2.424	6.700	...	
		2-3	2.02	2834.2356	2833.4022	0.6	35282.882 ^C	-7	2.279	6.653	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
394	$a^3P-^4F5p^3F^\circ$	1-2	2.06	2844.6318	2843.7959	-2.3	35153.934 ^D	28	2.424	6.782	...	
		2-3	1	2784.674	2783.852	0.0	35910.85 ^D	0	2.279	6.731	...	
		2-2	1.99	2752.6797	2751.8661	-3.0	36328.237 ^C	39	2.279	6.782	...	
395	$a^3P-^4F5p^5D^\circ$	0-1	1	2893.077	2892.229	4.2	34565.27 ^D	-50	2.484	6.770	...	I
		1-2	1.64	2858.9289	2858.0894	3.0	34978.135 ^D	-37	2.424	6.761	...	
		1-1	1*	2853.007	2852.169	-6.5	35050.74 ^D	80	2.424	6.770	...	
		2-3	1	2824.342	2823.511	6.4	35406.48 ^D	-80	2.279	6.668	...	
		2-2	1*	2766.053	2765.236	-10.7	36152.60 ^D	140	2.279	6.761	...	
396	$a^3P-Dsp3^5F^\circ$	0-1	4.87	2970.9732	2970.1060	3.8	33659.004 ^D	-43	2.484	6.657	...	I
		1-1	2.18	2928.7382	2927.8815	-1.0	34144.397 ^C	12	2.424	6.657	...	
		1-2	d3	2926.496	2925.640	2.6	34170.56 ^D	-30	2.424	6.661	...	
		2-1	d0?	2831.362	2830.529	-0.8	35318.69 ^D	10	2.279	6.657	...	
		2-3	1.90	2828.4219	2827.5899	0.0	35355.404 ^C	0	2.279	6.662	...	
397	$a^3P-x^3S^\circ$	0-1	2.82	2961.1611	2960.2963	0.0	33770.537 ^B	0	2.484	6.671	...	
		1-1	2.83	2919.2072	2918.3528	-0.1	34255.876 ^B	1	2.424	6.671	...	
		2-1	2	2822.456	2821.625	1.6	35430.14 ^D	-20	2.279	6.671	...	I
398	$a^3P-^4F5p^3D^\circ$	0-1	1	2876.093	2875.249	3.3	34769.39 ^D	-40	2.484	6.795	...	
		1-2	2.20	2874.3632	2873.5200	-1.4	34790.314 ^C	17	2.424	6.737	...	
		1-1	1.96	2836.4921	2835.6581	-3.6	35254.813 ^D	45	2.424	6.795	...	
		2-3	2.16	2820.1053	2819.2753	-0.6	35459.669 ^C	8	2.279	6.675	...	
		2-2	2	2780.514	2779.694	1.5	35964.57 ^D	-20	2.279	6.737	...	
399	$a^3P-Dsp3^5D^\circ$	0-1	2.08	2946.5582	2945.6971	2.1	33937.901 ^D	-24	2.484	6.692	...	
		1-1	2.28	2905.0110	2904.1602	-1.2	34423.277 ^C	14	2.424	6.692	...	
		2-3	2.32	2815.8464	2815.0174	2.8	35513.301 ^D	-35	2.279	6.681	...	
		2-1	2*	2809.183	2808.356	0.8	35597.54 ^D	-10	2.279	6.692	...	
400	$a^3P-t^3G^\circ$	2-3	0	2760.738	2759.922	-2.3	36222.20 ^D	30	2.279	6.769	...	
401	$a^3P-t^5P^\circ$ (UV136)	0-1	2	2921.138	2920.283	0.9	34233.23 ^D	-10	2.484	6.729	...	
		1-1	2	2880.303	2879.458	0.8	34718.57 ^D	-10	2.424	6.729	...	
		2-3	3	2806.899	2806.073	1.6	35626.50 ^D	-20	2.279	6.696	...	
		2-2	1.79	2798.4555	2797.6308	3.4	35733.997 ^D	-43	2.279	6.709	...	
402	$a^3P-w^1D^\circ$ (UV140)	2-2	1	2675.509	2674.714	-1.4	37376.07 ^D	20	2.279	6.912	...	
403	$a^3P-u^3F^\circ$	2-3	0	2603.821	2603.043	2.0	38405.10 ^D	-30	2.279	7.040	...	
		2-2	1.52	2598.7223	2597.9457	1.1	38480.448 ^D	-16	2.279	7.049	...	II
404	$a^3P-s^6D6p^5F^\circ$	2-3	0	2566.364	2565.595	0.0	38965.63 ^D	0	2.279	7.109	...	
405	$a^3P-s^6D6p^5D^\circ$	2-3	0?	2577.959	2577.187	-2.0	38790.38 ^D	30	2.279	7.088	...	
		2-2	d0?	2561.637	2560.870	2.0	39037.53 ^D	-30	2.279	7.118	...	
406	$a^3P-t^3F^\circ$	2-3	2.41	2546.9392	2546.1748	-0.1	39262.814 ^D	2	2.279	7.146	...	I
407	$a^3P-Psp1^3D^\circ$	2-3	2.81	2551.8589	2551.0934	-0.2	39187.119 ^A	3	2.279	7.137	...	
408	$a^3P-s^4D5p^5D^\circ$	0-1	1.66	2598.6057	2597.8291	0.6	38482.175 ^B	-9	2.484	7.255	...	
		1-2	1.95	2578.7753	2578.0034	-0.7	38778.098 ^B	11	2.424	7.232	...	
		1-1	1.53	2566.2383	2565.4694	-1.3	38967.542 ^C	20	2.424	7.255	...	
		2-3	1.79	2521.7296	2520.9711	-0.4	39655.323 ^B	6	2.279	7.195	...	
		2-2	2	2502.979	2502.225	-0.6	39952.39 ^D	10	2.279	7.232	...	
		2-1	0	2491.169	2490.418	1.2	40141.79 ^D	-20	2.279	7.255	...	II
409	$a^3P-s^4D5p^3P^\circ$	1-2	1.76	2600.9841	2600.2070	-0.4	38446.986 ^D	6	2.424	7.191	...	II
		0-1	3.23	2544.1417	2543.3780	0.1	39305.986 ^D	-2	2.484	7.357	...	II
		2-2	2.39	2523.8966	2523.1376	-0.2	39621.274 ^A	3	2.279	7.191	...	
		2-1	1.53	2441.0717	2440.3319	0.2	40965.613 ^C	-4	2.279	7.357	...	
410	$a^3P-Hsp1^3G^\circ$	2-3	0	2486.193	2485.443	0.6	40222.14 ^D	-10	2.279	7.265	...	
411	$a^3P-s^4D5p^3D^\circ$	0-1	1.90	2607.0823	2606.3037	-0.7	38357.056 ^B	11	2.484	7.240	...	
		1-2	2.04	2592.0318	2591.2568	-0.4	38579.774 ^B	6	2.424	7.207	...	
		2-2	1.92	2515.4662	2514.7092	-0.2	39754.062 ^B	3	2.279	7.207	...	
		2-3	2.31	2506.3873	2505.6324	0.4	39898.064 ^B	-7	2.279	7.225	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
412	$a^3P-s^4D5p^5F^o$	2-1	1.57	2498.9587	2498.2056	0.5	40016.667 ^C	-8	2.279	7.240	...	
		1-2	1	2541.056	2540.293	-4.5	39353.71 ^D	70	2.424	7.303	...	
		2-3	1.74	2476.5101	2475.7621	2.1	40379.404 ^D	-34	2.279	7.285	...	
413	$a^3P-s^4D5p^5P^o$	0-1	d3	2543.078	2542.314	-3.2	39322.43 ^D	50	2.484	7.359	...	II
		1-1	d0	2512.074	2511.317	-1.9	39807.75 ^D	30	2.424	7.359	...	
		2-1	1.93	2440.0954	2439.3558	0.2	40982.005 ^D	-3	2.279	7.359	...	
414	$a^3P-Psp1^3S^o$	0-1	1	2534.035	2533.273	2.6	39462.76 ^D	-40	2.484	7.377	...	
		1-1	1.79	2503.2449	2502.4907	-0.1	39948.149 ^B	2	2.424	7.377	...	
		2-1	2.12	2431.7625	2431.0248	0.1	41122.437 ^A	-1	2.279	7.377	...	
415	$a^3P-Fsp1^3D^o$	2-3	d0	2356.911	2356.191	3.9	42428.41 ^D	-70	2.279	7.539	...	I
416	$z^7D^o-d^8^3P$	1-0	2.08	4713.6753	4712.3569	-0.2	21214.868 ^D	1	2.482	5.112	...	
		2-1	2.61	4702.3601	4701.0447	-0.4	21265.917 ^D	2	2.469	5.105	-1.86 ^a	I
417	$z^7D^o-e^7D$ (152)	4-5	4.80	4300.4444	4299.2349	0.4	23253.411 ^D	-2	2.425	5.308	-0.41 ^a	I
		3-4	4.94	4272.3558	4271.1538	0.2	23406.290 ^A	-1	2.449	5.351	-0.35 ^b	
		5-5	5.35	4261.6736	4260.4744	0.2	23464.960 ^A	-1	2.399	5.308	0.08 ^a	
		2-3	4.85	4251.3160	4250.1195	0.2	23522.128 ^A	-1	2.469	5.385	-0.41 ^b	
		4-4	4.95	4237.1298	4235.9370	0.4	23600.882 ^A	-2	2.425	5.351	-0.34 ^b	
		1-2	4.63	4234.7950	4233.6028	0.4	23613.894 ^A	-2	2.482	5.410	-0.60 ^b	
		3-3	4.31	4223.4023	4222.2131	-0.2	23677.593 ^A	1	2.449	5.385	-0.97 ^b	
		1-1	4.26	4211.5296	4210.3436	0.2	23744.342 ^A	-1	2.482	5.426	-0.93 ^a	
		5-4	4.47	4199.4872	4198.3043	-0.2	23812.431 ^A	1	2.399	5.351	-0.72 ^b	
		2-1	4.53	4192.6118	4191.4307	0.2	23851.481 ^A	-1	2.469	5.426	-0.67 ^a	
		4-3	4.72	4188.9756	4187.7954	0.2	23872.185 ^A	-1	2.425	5.385	-0.55 ^b	
		3-2	4.69	4188.2189	4187.0390	0.0	23876.498 ^A	0	2.449	5.410	-0.55 ^b	
418	$z^7D^o-e^5D$ (156)	3-4	2.41	4012.8453	4011.7113	-0.3	24919.974 ^B	2	2.449	5.539	-2.69 ^b	
		2-3	2.69	3976.3300	3975.2055	2.1	25148.818 ^C	-13	2.469	5.587	-2.76 ^b	
		5-4	2.60	3948.4961	3947.3789	2.2	25326.098 ^C	-14	2.399	5.539	...	
419	$z^7D^o-e^7F$ (155)	5-6	4.82	3226.7186	3225.7872	-0.1	30991.237 ^A	1	2.399	6.241	0.38 ^a	
		1-1	4.09	3206.3242	3205.3980	-0.2	31188.362 ^A	2	2.482	6.349	-0.34 ^a	
		2-3	4.17	3201.3965	3200.4716	-1.8	31236.368 ^A	18	2.469	6.341	...	
		4-5	4.47	3197.8515	3196.9274	0.1	31270.996 ^D	-1	2.425	6.302	0.00 ^a	II
		2-1	3.12	3195.3473	3194.4238	-0.3	31295.503 ^B	3	2.469	6.349	-1.30 ^a	
		1-2	3.97	3193.7234	3192.8004	-0.1	31311.415 ^A	1	2.482	6.364	-0.42 ^a	
		3-3	6	3185.539	3184.618	-4.1	31391.86 ^D	40	2.449	6.341	...	I
		2-2	2.72	3182.8317	3181.9114	-0.9	31418.564 ^C	9	2.469	6.364	-1.87 ^a	
		3-4	4.17	3181.1432	3180.2234	-0.1	31435.240 ^A	1	2.449	6.347	-0.22 ^a	
		5-5	3.83	3176.3634	3175.4447	0.0	31482.544 ^A	0	2.399	6.302	-0.62 ^a	
		3-2	2.61	3167.1607	3166.2444	-0.3	31574.021 ^C	3	2.449	6.364	...	
		4-3	2.95	3165.9196	3165.0036	0.8	31586.399 ^B	-8	2.425	6.341	...	
420	$z^7D^o-f^7D$ (156)	4-4	3.78	3161.5723	3160.6574	0.0	31629.832 ^A	0	2.425	6.347	-0.58 ^a	
		5-4	2.32	3140.5697	3139.6601	2.3	31841.357 ^D	-23	2.399	6.347	...	
		4-5	4.26	3245.1236	3244.1876	0.0	30815.467 ^A	0	2.425	6.246	-0.27 ^a	
		2-3	2.77	3231.0888	3230.1563	-0.1	30949.320 ^B	1	2.469	6.306	-1.78 ^a	
		1-2	2.98	3227.9928	3227.0612	0.5	30979.003 ^B	-5	2.482	6.323	-1.45 ^a	
		5-5	4.67	3222.9976	3222.0671	-0.2	31027.017 ^A	2	2.399	6.246	0.17 ^a	
		1-1	3.20	3222.8466	3221.9162	0.0	31028.470 ^B	0	2.482	6.329	-1.24 ^a	
		3-4	4.30	3220.5119	3219.5821	-0.1	31050.964 ^A	1	2.449	6.299	-0.19 ^a	
		2-2	4.17	3216.8669	3215.9380	-0.1	31086.148 ^A	1	2.469	6.323	-0.32 ^a	
		3-3	4.20	3214.9410	3214.0126	1.1	31104.770 ^A	-11	2.449	6.306	-0.04 ^a	
		2-1	4.03	3211.7568	3210.8292	0.2	31135.608 ^D	-2	2.469	6.329	-0.37 ^a	II
		3-2	d1	3200.862	3199.938	3.1	31241.58 ^D	-30	2.449	6.323	...	
421	$z^7D^o-f^5D$ (157)	4-4	3.98	3200.4551	3199.5304	0.0	31245.556 ^A	0	2.425	6.299	-0.51 ^a	
		5-4	3.69	3178.9321	3178.0128	-0.1	31457.105 ^A	1	2.399	6.299	-0.76 ^a	
		2-3	2.46	3265.6358	3264.6946	-0.9	30621.908 ^C	8	2.469	6.265	...	
		3-4	3.30	3260.9295	3259.9895	-0.1	30666.103 ^A	1	2.449	6.251	-1.37 ^a	
		3-3	3.87	3249.1413	3248.2042	0.0	30777.363 ^A	0	2.449	6.265	-0.67 ^a	
		2-2	3.37	3248.2169	3247.2801	0.1	30786.121 ^A	-1	2.469	6.286	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		1–1	3.13	3240.3922	3239.4574	0.2	30860.462 ^B	-2	2.482	6.308	-1.50 ^a	
		4–4	4.33	3240.3677	3239.4329	0.0	30860.695 ^A	0	2.425	6.251	-0.38 ^a	
		3–2	4.02	3231.8963	3230.9636	-0.2	30941.587 ^A	2	2.449	6.286	-0.52 ^b	
		1–0	3.27	3229.8308	3228.8987	0.0	30961.374 ^A	0	2.482	6.321	...	
		2–1	3.73	3229.1809	3228.2490	-0.1	30967.605 ^A	1	2.469	6.308	-0.76 ^a	
		4–3	4.28	3228.7274	3227.7955	0.1	30971.955 ^A	-1	2.425	6.265	-0.27 ^a	
		5–4	4.01	3218.3064	3217.3772	0.0	31072.243 ^A	0	2.399	6.251	-0.68 ^a	
422	$z^7D^o-e^7P$ (158)	3–3	0	3241.047	3240.112	0.0	30854.23 ^D	0	2.449	6.275	...	
		4–4	4.03	3234.9009	3233.9675	-0.2	30912.848 ^A	2	2.425	6.258	-0.53 ^a	
		2–2	3.64	3231.1397	3230.2072	-0.2	30948.832 ^A	2	2.469	6.306	-0.79 ^a	
		4–3	4.14	3220.7344	3219.8046	0.0	31048.819 ^A	0	2.425	6.275	-0.41 ^a	
		3–2	4.36	3214.9900	3214.0616	-0.3	31104.296 ^A	3	2.449	6.306	-0.04 ^a	
		5–4	4.22	3212.9152	3211.9873	1.3	31124.382 ^A	-13	2.399	6.258	-0.19 ^a	
423	$z^7D^o-e^5G$ (159)	4–5	3.81	3211.1565	3210.2291	0.0	31141.428 ^A	0	2.425	6.286	-0.71 ^a	
		5–6	2.97	3208.0018	3207.0752	-0.1	31172.052 ^B	1	2.399	6.264	-1.58 ^a	
		2–3	3.98	3194.2230	3193.2999	0.0	31306.518 ^A	0	2.469	6.350	-0.48 ^a	
		1–2	3.70	3189.7411	3188.8191	0.0	31350.507 ^A	0	2.482	6.369	-0.71 ^a	
		5–5	3.39	3189.4895	3188.5675	-0.3	31352.980 ^A	3	2.399	6.286	-1.08 ^a	
		4–4	3.16	3182.9758	3182.0555	-0.3	31417.141 ^A	3	2.425	6.320	-1.36 ^a	
		3–2	5	3163.247	3162.331	2.0	31613.09 ^D	-20	2.449	6.369	...	I
		3–2	2.87	3163.2453	3162.3300	0.8	31613.103 ^D	-8	2.449	6.369	...	I
		5–4	2.32	3161.6889	3160.7740	2.0	31628.665 ^D	-20	2.399	6.320	...	
		4–3	2.80	3158.9015	3157.9873	-0.1	31656.574 ^B	1	2.425	6.350	-1.63 ^a	
424	$z^7D^o-e^7G$ (160)	1–2	2.62	3172.5800	3171.6623	-0.6	31520.088 ^C	6	2.482	6.390	-1.68 ^a	
		1–1	3	3169.859	3168.942	2.0	31547.14 ^D	-20	2.482	6.393	...	
		2–3	2.82	3169.7711	3168.8542	0.1	31548.019 ^B	-1	2.469	6.380	-1.56 ^a	
		3–4	3.27	3166.7739	3165.8577	-0.1	31577.878 ^A	1	2.449	6.365	-1.14 ^a	
		5–6	3.52	3162.8615	3161.9463	-0.1	31616.939 ^A	1	2.399	6.319	-1.04 ^a	
		2–2	2.51	3161.8332	3160.9182	0.0	31627.222 ^C	0	2.469	6.390	...	
		2–1	0?	3159.127	3158.213	0.0	31654.31 ^D	0	2.469	6.393	...	
		4–5	3.72	3157.9502	3157.0362	0.0	31666.111 ^A	0	2.425	6.351	-0.68 ^a	
		3–3	2.77	3154.2267	3153.3136	-0.9	31703.492 ^B	9	2.449	6.380	-1.56 ^a	
		4–4	1	3147.381	3146.469	2.0	31772.45 ^D	-20	2.425	6.365	...	
		5–4	10*	3126.553	3125.646	-8.8	31984.11 ^D	90	2.399	6.365	...	I
425	$z^7D^o-f^5F$ (161)	1–2	2	3156.032	3155.118	1.0	31685.36 ^D	-10	2.482	6.410	...	II
		2–3	3.01	3155.4100	3154.4966	0.3	31691.603 ^B	-3	2.469	6.398	-1.31 ^a	
		3–4	3.47	3154.1128	3153.1997	-0.1	31704.637 ^A	1	2.449	6.380	-0.97 ^a	
		1–1	0	3151.113	3150.201	4.0	31734.82 ^D	-40	2.482	6.417	...	II
		5–5	2.47	3149.3773	3148.4654	-1.2	31752.309 ^C	12	2.399	6.336	...	
		4–4	d0?	3134.871	3133.963	-1.0	31899.24 ^D	10	2.425	6.380	...	
426	$z^7D^o-e^5S$ (162)	1–2	3.48	3212.4106	3211.4828	0.1	31129.271 ^A	-1	2.482	6.341	...	
		2–2	13	3201.399	3200.474	7.2	31236.34 ^D	-70	2.469	6.341	...	I
		3–2	3.01	3185.5384	3184.6174	0.7	31391.868 ^B	-7	2.449	6.341	...	
427	$z^7D^o-g^5D$ (163)	3–4	2.52	3165.2119	3164.2961	-0.4	31593.461 ^C	4	2.449	6.366	...	
428	$z^7D^o-e^7S$ (164)	2–3	3.50	3158.7993	3157.8850	0.0	31657.599 ^D	0	2.469	6.394	-0.77 ^a	I
		3–3	3.14	3143.3642	3142.4539	1.3	31813.049 ^B	-13	2.449	6.394	-1.39 ^a	
		4–3	4	3124.256	3123.351	2.9	32007.62 ^D	-30	2.425	6.394	...	
429	$z^7D^o-e^5P$ (165)	2–3	0	3132.363	3131.455	-2.9	31924.78 ^D	30	2.469	6.427	...	
		1–1	1	3124.999	3124.093	2.0	32000.01 ^D	-20	2.482	6.449	...	
		3–3	1	3117.184	3116.280	-2.9	32080.24 ^D	30	2.449	6.427	...	
		2–1	0	3114.569	3113.666	0.0	32107.17 ^D	0	2.469	6.449	...	
		4–3	1	3098.393	3097.494	0.0	32274.80 ^D	0	2.425	6.427	...	
430	$z^7D^o-g^5F$	5–5	d0?	2966.450	2965.584	7.9	33710.33 ^D	-90	2.399	6.579	...	
		4–4	1	2955.846	2954.983	-1.7	33831.26 ^D	20	2.425	6.620	...	I
431	$z^7D^o-g^7D$ (UV142)	4–5	2.54	2920.6952	2919.8405	-0.6	34238.424 ^B	7	2.425	6.670	-0.98 ^a	
		3–4	2.49	2909.7080	2908.8560	-0.2	34367.710 ^B	2	2.449	6.710	-0.99 ^a	
		5–5	2.92	2902.7607	2901.9104	0.1	34449.964 ^B	-1	2.399	6.670	-0.61 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		2-3	2.40	2899.2000	2898.3506	0.6	34492.274 ^C	-7	2.469	6.745	...	I
		4-4	2.48	2893.3255	2892.4776	-0.3	34562.305 ^C	3	2.425	6.710	-1.00 ^a	
		1-2	2.04	2890.8353	2889.9879	-0.6	34592.078 ^C	7	2.482	6.771	...	
		3-3	1.90	2886.1928	2885.3466	1.9	34647.720 ^D	-23	2.449	6.745	...	
		2-2	0?	2881.918	2881.073	8.3	34699.11 ^D	-100	2.469	6.771	...	
		1-1	2	2879.529	2878.685	5.0	34727.90 ^D	-60	2.482	6.788	...	
		5-4	2.32	2875.7216	2874.8779	-2.6	34773.881 ^D	32	2.399	6.710	...	
		2-1	1.90	2870.6676	2869.8253	-0.2	34835.102 ^D	3	2.469	6.788	...	
		4-3	2.11	2870.0706	2869.2283	-1.0	34842.349 ^C	12	2.425	6.745	...	
		3-2	2.46	2869.0567	2868.2147	1.0	34854.662 ^D	-12	2.449	6.771	...	
		3-4	2	2879.947	2879.102	0.0	34722.86 ^D	0	2.449	6.754	...	
		4-4	2	2863.898	2863.057	0.8	34917.45 ^D	-10	2.425	6.754	...	
432	$z^7D^o-s^6D6s^5D$	2-3	2	2861.040	2860.200	0.8	34952.32 ^D	-10	2.469	6.802	...	II
		3-3	1	2848.372	2847.535	1.6	35107.77 ^D	-20	2.449	6.802	...	
		1-2	0	2847.826	2846.990	2.4	35114.50 ^D	-30	2.482	6.836	...	
		5-4	2.00	2846.6540	2845.8175	3.6	35128.962 ^D	-45	2.399	6.754	...	
		4-3	2.42	2832.6708	2831.8378	1.3	35302.372 ^D	-16	2.425	6.802	...	
		3-2	2	2826.680	2825.849	-4.0	35377.19 ^D	50	2.449	6.836	...	
		2-1	0	2825.408	2824.577	0.0	35393.12 ^D	0	2.469	6.857	...	
		4-4	0	2706.082	2705.279	-1.5	36953.80 ^D	20	2.425	7.007	...	
		5-4	2.05	2690.6786	2689.8800	-1.6	37165.346 ^D	22	2.399	7.007	...	
		2-3	0	2659.711	2658.920	6.4	37598.07 ^D	-90	2.469	7.130	...	
		2-2	d0	2734.705	2733.896	-3.0	36567.01 ^D	40	2.469	7.002	...	I
		1-1	d0?	2723.641	2722.834	-3.0	36715.56 ^D	40	2.482	7.034	...	
		3-2	1.62	2723.1307	2722.3243	-0.9	36722.439 ^D	12	2.449	7.002	...	
435	$z^7D^o-s^6D5d^5G$	3-4	1	2708.842	2708.039	-2.9	36916.15 ^D	40	2.449	7.026	...	
		4-5	0	2703.570	2702.768	4.4	36988.13 ^D	-60	2.425	7.011	...	
		5-6	1.82	2703.3617	2702.5601	-1.0	36990.980 ^C	14	2.399	6.985	...	
		2-3	1.32	2692.2915	2691.4925	2.7	37143.081 ^C	-37	2.469	7.074	...	
		3-3	1	2681.067	2680.271	0.0	37298.58 ^D	0	2.449	7.074	...	
		3-2	d0?	2668.315	2667.521	-2.1	37476.84 ^D	30	2.449	7.096	...	
		4-3	0*	2667.157	2666.364	4.3	37493.11 ^D	-60	2.425	7.074	...	
		5-6	2.80	2697.0812	2696.2811	-2.7	37077.119 ^A	37	2.399	6.996	...	II
		2-3	2.26	2690.2123	2689.4138	-0.4	37171.788 ^B	6	2.469	7.077	...	
		1-1	1.89	2688.5986	2687.8005	0.6	37194.098 ^B	-8	2.482	7.093	...	
		4-5	2.41	2682.3824	2681.5858	-0.2	37280.293 ^A	3	2.425	7.047	...	
		3-3	0	2679.009	2678.214	0.7	37327.23 ^D	-10	2.449	7.077	...	
		5-5	1.61	2667.2471	2666.4541	-0.1	37491.840 ^C	1	2.399	7.047	...	
		3-4	2.16	2663.0951	2662.3032	-0.6	37550.292 ^B	8	2.449	7.105	...	
		4-4	1.56	2649.3686	2648.5800	2.5	37744.842 ^D	-36	2.425	7.105	...	
		5-4	d0?	2634.598	2633.813	-2.1	37956.46 ^D	30	2.399	7.105	...	
436	$z^7D^o-s^6D5d^7F$	1-2	4	2715.674	2714.869	-6.6	36823.27 ^D	90	2.482	7.047	...	I
		4-5	1.62	2712.2627	2711.4589	-0.4	36869.585 ^B	6	2.425	6.996	...	
		4-4	2.23	2710.7924	2709.9889	-0.5	36889.583 ^D	7	2.425	6.999	...	
		2-2	d0?	2707.802	2706.999	0.0	36930.32 ^D	0	2.469	7.047	...	
		1-1	d0?	2703.815	2703.013	-3.7	36984.78 ^D	50	2.482	7.067	...	
		5-5	2.66	2696.7896	2695.9895	-0.1	37081.128 ^A	1	2.399	6.996	...	
		3-2	2.28	2696.4514	2695.6514	-0.3	37085.779 ^B	4	2.449	7.047	...	
		2-1	1	2696.011	2695.211	1.5	37091.84 ^D	-20	2.469	7.067	...	
		5-4	2.59	2695.3355	2694.5359	-0.6	37101.132 ^A	8	2.399	6.999	...	
		2-3	1	2691.219	2690.420	0.0	37157.88 ^D	0	2.469	7.076	...	
		3-3	d1	2680.007	2679.211	0.0	37313.34 ^D	0	2.449	7.076	...	
		3-4	2.47	2696.3311	2695.5311	0.4	37087.434 ^B	-6	2.449	7.048	...	II
		1-2	2.12	2683.0078	2682.2110	-0.2	37271.603 ^B	3	2.482	7.103	...	
438	$z^7D^o-s^6D5d^7P$	4-4	1.51	2682.2574	2681.4609	0.2	37282.029 ^D	-3	2.425	7.048	...	
		3-2	0	2664.232	2663.440	-4.3	37534.27 ^D	60	2.449	7.103	...	
		1-1	1.72	2680.9124	2680.1162	-1.9	37300.734 ^C	26	2.482	7.107	...	II
		3-4	2	2673.883	2673.089	2.1	37398.79 ^D	-30	2.449	7.086	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		2-1	d0	2673.241	2672.446	4.3	37407.78 ^D	-60	2.469	7.107	...	
		1-2	1.70	2671.5800	2670.7860	-0.6	37431.034 ^C	8	2.482	7.123	...	
		5-6	1.90	2664.9597	2664.1673	0.1	37524.019 ^B	-2	2.399	7.051	...	
		2-2	1*	2663.956	2663.164	0.0	37538.16 ^D	0	2.469	7.123	...	
		4-5	2.12	2662.0964	2661.3047	0.0	37564.380 ^B	0	2.425	7.083	...	
		4-4	2	2660.042	2659.251	1.4	37593.39 ^D	-20	2.425	7.086	...	
		3-3	1.74	2659.2674	2658.4764	-0.7	37604.341 ^C	10	2.449	7.112	...	
		5-5	2.40	2647.1809	2646.3928	-7.5	37776.035 ^D	107	2.399	7.083	...	
		5-4	d0?	2645.163	2644.376	7.7	37804.85 ^D	-110	2.399	7.086	...	
		4-3	d0?	2645.580	2644.792	1.4	37798.90 ^D	-20	2.425	7.112	...	
440	$z^7D^\circ-s^6D5d^5S$	2-2	1	2716.809	2716.004	1.5	36807.89 ^D	-20	2.469	7.032	...	
		3-2	1.89	2705.3796	2704.5775	-1.2	36963.389 ^D	16	2.449	7.032	...	II
441	$z^7D^\circ-s^6D5d^5F$	2-3	1.57	2716.3256	2715.5208	-3.2	36814.438 ^D	44	2.469	7.033	...	
		3-3	0	2704.901	2704.099	-5.1	36969.93 ^D	70	2.449	7.033	...	
		2-2	2.75	2699.8027	2699.0019	-2.1	37039.744 ^D	29	2.469	7.061	...	
		1-1	d0?	2698.461	2697.661	2.9	37058.16 ^D	-40	2.482	7.077	...	
		2-1	2.05	2690.6786	2689.8800	-0.1	37165.346 ^D	1	2.469	7.077	...	I
		3-2	0	2688.521	2687.723	0.0	37195.17 ^D	0	2.449	7.061	...	
		4-5	1.79	2688.2122	2687.4142	-0.6	37199.444 ^C	8	2.425	7.037	...	
		3-4	2.03	2676.0706	2675.2755	-0.5	37368.222 ^B	7	2.449	7.082	...	
		5-5	0	2673.011	2672.217	0.0	37410.99 ^D	0	2.399	7.037	...	
		4-4	1.70	2662.2072	2661.4154	-0.6	37562.817 ^B	9	2.425	7.082	...	
		5-4	0	2647.300	2646.512	0.7	37774.34 ^D	-10	2.399	7.082	...	
442	$z^7D^\circ-^4F6s^3F$	3-4	2.09	2698.9656	2698.1650	0.0	37051.232 ^B	0	2.449	7.043	...	
		4-4	2.32	2684.8646	2684.0674	-0.1	37245.826 ^D	1	2.425	7.043	...	II
		2-3	1	2680.512	2679.716	0.7	37306.31 ^D	-10	2.469	7.094	...	
		5-4	2.55	2669.7032	2668.9096	1.7	37457.348 ^D	-24	2.399	7.043	...	II
443	$z^7D^\circ-s^6D5d^5P$	2-3	2.13	2684.7337	2683.9366	0.1	37247.642 ^B	-1	2.469	7.087	...	
		1-2	0	2674.977	2674.182	0.0	37383.50 ^D	0	2.482	7.117	...	
		3-3	1	2673.576	2672.781	0.7	37403.09 ^D	-10	2.449	7.087	...	
		4-3	1.71	2659.7378	2658.9467	0.6	37597.691 ^D	-8	2.425	7.087	...	
444	$z^7D^\circ-s^6D5d^7S$	2-3	2.04	2664.8353	2664.0430	-0.2	37525.771 ^B	3	2.469	7.121	...	
		3-3	0	2653.841	2653.051	0.0	37681.23 ^D	0	2.449	7.121	...	
445	$z^7D^\circ-s^4D4d^5F$	4-5	1.62	2624.7757	2623.9929	1.2	38098.494 ^D	-17	2.425	7.149	...	
		1-1	d3	2607.991	2607.212	6.1	38343.69 ^D	-90	2.482	7.236	...	II
		2-2	2.48	2590.6818	2589.9071	0.8	38599.877 ^C	-12	2.469	7.254	...	
446	$z^7D^\circ-^i^5D$	3-4	d0	2635.708	2634.923	-0.7	37940.47 ^D	10	2.449	7.153	...	
		3-2	2.58	2616.6310	2615.8502	1.4	38217.081 ^D	-21	2.449	7.188	...	Ne
447	$z^7D^\circ-s^6D7s^7D$	4-5	2	2608.609	2607.831	0.0	38334.60 ^D	0	2.425	7.178	...	
		5-5	2.00	2594.2917	2593.5161	-0.7	38546.167 ^C	10	2.399	7.178	...	
		3-2	2	2568.924	2568.154	-2.6	38926.81 ^D	40	2.449	7.276	...	
448	$z^7D^\circ-g^5G$	5-6	0	2587.251	2586.477	-0.7	38651.06 ^D	10	2.399	7.191	...	
449	$z^7D^\circ-s^6D7s^5D$	3-4	5	2593.062	2592.286	-6.7	38564.45 ^D	100	2.449	7.231	...	I
		4-4	10	2580.044	2579.272	-5.3	38759.03 ^D	80	2.425	7.231	...	I
		5-4	0	2566.045	2565.276	0.0	38970.48 ^D	0	2.399	7.231	...	
450	$z^7D^\circ-s^4D4d^3G$	5-5	d0?	2554.837	2554.071	-5.9	39141.44 ^D	90	2.399	7.252	...	
		4-4	6*	2537.892	2537.130	3.2	39402.78 ^D	-50	2.425	7.311	...	II
451	$z^7D^\circ-58661^e$	5-4	1.41	2543.8147	2543.0510	2.8	39311.040 ^D	-44	2.399	7.273	...	
452	$z^7D^\circ-58906^e$	3-4	d0?	2554.315	2553.549	-2.5	39149.44 ^D	39	2.449	7.303	...	
453	$z^7D^\circ-59077^e$	1-1	d0?	2560.329	2559.561	-2.2	39057.48 ^D	34	2.482	7.324	...	
454	$z^7D^\circ-s^6D_{4,5}6d[3.5]$	2-3	1.30	2542.0168	2541.2536	3.4	39338.843 ^D	-52	2.469	7.346	...	
	$z^7D^\circ-s^6D_{4,5}6d[3.5]$	3-4	d0	2533.032	2532.271	3.8	39478.38 ^D	-60	2.449	7.344	...	
	$z^7D^\circ-s^6D_{4,5}6d[3.5]$	3-3	1.30	2532.0083	2531.2474	1.1	39494.342 ^D	-17	2.449	7.346	...	
	$z^7D^\circ-s^6D_{4,5}6d[4.5]$	4-5	1.41	2527.5311	2526.7712	0.7	39564.301 ^D	-11	2.425	7.331	...	
	$z^7D^\circ-s^6D_{4,5}6d[3.5]$	4-4	0	2520.606	2519.848	2.5	39673.00 ^D	-40	2.425	7.344	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
	$z^7D^\circ-s^6D_{4.5}6d$ [5.5]	5-6	1.86	2514.2566	2513.4998	-0.6	39773.188 ^B	9	2.399	7.330	...	
	$z^7D^\circ-s^6D_{4.5}6d$ [4.5]	5-5	1.97	2514.0869	2513.3302	-0.8	39775.872 ^C	13	2.399	7.331	...	
	$z^7D^\circ-s^6D_{4.5}6d$ [4.5]	5-4	1.58	2513.6564	2512.8998	2.2	39782.684 ^C	-35	2.399	7.331	...	
455	$z^7D^\circ-s^4D4d^3F$	3-4	2.04	2528.7730	2528.0129	-0.1	39544.870 ^C	2	2.449	7.352	...	
		4-3	d5*	2502.488	2501.734	2.5	39960.23 ^D	-40	2.425	7.380	...	
456	$z^7D^\circ-s^6D_{3.5}6d$ [1.5]	1-2	10	2528.459	2527.699	-2.6	39549.78 ^D	40	2.482	7.385	...	II
	$z^7D^\circ-s^6D_{3.5}6d$ [2.5]	2-2	d2	2525.154	2524.394	5.1	39601.55 ^D	-80	2.469	7.379	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [3.5]	2-3	2.13	2524.7562	2523.9970	1.3	39607.785 ^B	-21	2.469	7.379	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [1.5]	2-2	5	2521.631	2520.872	0.0	39656.88 ^D	0	2.469	7.385	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [3.5]	3-4	0?	2517.714	2516.956	1.3	39718.57 ^D	-20	2.449	7.374	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [2.5]	3-2	1.43	2515.2760	2514.5190	2.0	39757.068 ^D	-31	2.449	7.379	...	II
	$z^7D^\circ-s^6D_{3.5}6d$ [4.5]	3-4	7	2514.089	2513.332	-1.9	39775.84 ^D	30	2.449	7.381	...	I
	$z^7D^\circ-s^6D_{3.5}6d$ [2.5]	3-3	3	2513.730	2512.973	1.9	39781.52 ^D	-30	2.449	7.382	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [1.5]	3-2	d0	2511.782	2511.026	-1.9	39812.37 ^D	30	2.449	7.385	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [4.5]	4-5	2.01	2506.1986	2505.4437	0.3	39901.068 ^B	-4	2.425	7.372	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [5.5]	4-5	1.18	2500.3792	2499.6257	-3.3	39993.934 ^C	53	2.425	7.384	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [4.5]	5-5	2.17	2492.9827	2492.2309	1.6	40112.593 ^B	-26	2.399	7.372	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [3.5]	5-4	7	2492.229	2491.477	0.6	40124.73 ^D	-10	2.399	7.374	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [4.5]	5-4	0	2488.677	2487.926	-2.5	40181.99 ^D	40	2.399	7.381	...	
	$z^7D^\circ-s^6D_{3.5}6d$ [5.5]	5-6	2.01	2488.1657	2487.4150	-1.3	40190.250 ^C	21	2.399	7.382	...	
457	$z^7D^\circ-s^5D4p^2^7F$	5-5	0	2489.233	2488.482	-1.9	40173.02 ^D	30	2.399	7.380	...	I
		1-2	1.88	2468.3150	2467.5689	0.4	40513.468 ^D	-6	2.482	7.505	...	I
		2-2	1.92	2461.8045	2461.0600	0.4	40620.609 ^B	-6	2.469	7.505	...	
		3-2	1.73	2452.4180	2451.6756	-0.3	40776.083 ^B	5	2.449	7.505	...	
458	$z^7D^\circ-s^6D_{2.5}6d$ [0.5]	1-1	1	2518.287	2517.529	0.0	39709.54 ^D	0	2.482	7.405	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [1.5]	1-2	2.02	2515.0369	2514.2800	-0.1	39760.848 ^B	2	2.482	7.412	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [2.5]	1-2	1.82	2511.0530	2510.2970	-0.3	39823.930 ^D	4	2.482	7.419	...	II
	$z^7D^\circ-s^6D_{2.5}6d$ [1.5]	2-2	1.82	2508.2808	2507.5255	2.6	39867.944 ^D	-42	2.469	7.412	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [2.5]	2-2	8	2504.310	2503.555	-5.6	39931.16 ^D	90	2.469	7.419	...	II
	$z^7D^\circ-s^6D_{2.5}6d$ [3.5]	2-3	3	2501.615	2500.861	1.3	39974.18 ^D	-20	2.469	7.425	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [2.5]	3-3	2.00	2496.0289	2495.2764	-0.6	40063.639 ^C	10	2.449	7.417	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [3.5]	3-4	d3	2492.422	2491.670	-0.6	40121.62 ^D	10	2.449	7.424	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [4.5]	4-5	1.85	2490.2720	2489.5208	1.6	40156.256 ^C	-25	2.425	7.404	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [4.5]	4-4	1.52	2489.8258	2489.0748	0.6	40163.452 ^D	-9	2.425	7.405	...	I
	$z^7D^\circ-s^6D_{2.5}6d$ [3.5]	4-4	2.35	2480.3915	2479.6426	-0.9	40316.216 ^D	14	2.425	7.424	...	II
	$z^7D^\circ-s^6D_{2.5}6d$ [3.5]	4-3	1.04	2479.8970	2479.1483	0.4	40324.255 ^D	-7	2.425	7.425	...	II
	$z^7D^\circ-s^6D_{2.5}6d$ [4.5]	5-5	2.18	2477.2200	2476.4719	-0.1	40367.831 ^B	2	2.399	7.404	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [4.5]	5-4	1.91	2476.7793	2476.0312	-0.4	40375.015 ^B	6	2.399	7.405	...	
	$z^7D^\circ-s^6D_{2.5}6d$ [3.5]	5-4	2.31	2467.4426	2466.6967	-2.6	40527.792 ^B	42	2.399	7.424	...	
459	$z^7D^\circ-s^6D_{1.5}6d$ [1.5]	1-1	1.65	2501.2396	2500.4859	-1.3	39980.176 ^D	20	2.482	7.439	...	
	$z^7D^\circ-s^6D_{1.5}6d$ [1.5]	2-2	1	2492.359	2491.607	-5.0	40122.63 ^D	80	2.469	7.443	...	
	$z^7D^\circ-s^6D_{1.5}6d$ [2.5]	2-3	1.52	2489.8258	2489.0748	-1.7	40163.452 ^D	27	2.469	7.448	...	I
	$z^7D^\circ-s^6D_{1.5}6d$ [2.5]	2-2	0	2489.233	2488.482	-0.6	40173.02 ^D	10	2.469	7.449	...	I
	$z^7D^\circ-s^6D_{1.5}6d$ [3.5]	2-3	1.88	2488.5185	2487.7678	-1.5	40184.551 ^C	25	2.469	7.451	...	
	$z^7D^\circ-s^6D_{1.5}6d$ [1.5]	3-2	d0?	2482.741	2481.991	-3.7	40278.07 ^D	60	2.449	7.443	...	
	$z^7D^\circ-s^6D_{1.5}6d$ [2.5]	3-3	2.81	2480.2292	2479.4804	2.2	40318.854 ^D	-35	2.449	7.448	...	I
	$z^7D^\circ-s^6D_{1.5}6d$ [3.5]	3-3	1.36	2478.9278	2478.1793	-2.0	40340.021 ^D	32	2.449	7.451	...	
	$z^7D^\circ-s^6D_{1.5}6d$ [2.5]	4-3	1.88	2468.3150	2467.5689	0.8	40513.468 ^D	-13	2.425	7.448	...	I
	$z^7D^\circ-s^6D_{1.5}6d$ [3.5]	4-3	1.51	2467.0280	2466.2823	-1.2	40534.602 ^C	20	2.425	7.451	...	
460	$z^7D^\circ-s^6D_{0.5}6d$ [1.5]	1-2	1	2493.207	2492.455	-0.6	40108.98 ^D	10	2.482	7.455	...	
461	$z^7D^\circ-62079^e$	5-6	2.12	2340.3624	2339.6453	0.1	42728.425 ^B	-2	2.399	7.697	...	
462	$z^7D^\circ-62192^e$	4-5	9*	2345.755	2345.037	5.5	42630.19 ^D	-100	2.425	7.711	...	
463	$z^7D^\circ-62377^e$	3-4	8	2346.281	2345.563	-0.6	42620.64 ^D	10	2.449	7.734	...	
		5-4	1.34	2324.1355	2323.4220	1.0	43026.751 ^D	-18	2.399	7.734	...	II
464	$a^3H-z^5G^\circ$ (168)	4-5	2.85	6669.2601	6667.4191	0.4	14994.167 ^A	-1	2.453	4.312	-4.40 ^b	
		5-5	4.85	6595.6917	6593.8705	0.9	15161.412 ^A	-2	2.433	4.312	-2.42 ^b	
		6-5	5.94	6496.7751	6494.9805	0.0	15392.252 ^A	0	2.404	4.312	-1.27 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
465	$a^3H-z^3G^o$ (169)	6-6	2.94	6470.9058	6469.1181	0.4	15453.787 ^A	-1	2.404	4.320	...	I
		4-4	4.52	6464.5111	6462.7251	-0.8	15469.074 ^A	2	2.453	4.371	-2.60 ^b	
		5-4	5.48	6395.3687	6393.6013	0.4	15636.315 ^A	-1	2.433	4.371	-1.58 ^a	
		4-3	4.57	6319.7647	6318.0175	-0.8	15823.374 ^A	2	2.453	4.415	...	
		4-5	1.85	6413.9749	6412.2025	-0.4	15590.956 ^D	1	2.453	4.386	...	
		5-5	3.98	6345.9033	6344.1491	0.8	15758.198 ^A	-2	2.433	4.386	-2.92 ^b	
		4-4	3.14	6258.0921	6256.3615	0.0	15979.311 ^A	0	2.453	4.434	-2.41 ^a	
		6-5	3.98	6254.2850	6252.5554	0.0	15989.038 ^A	0	2.404	4.386	-1.69 ^b	
		5-4	3.78	6193.2716	6191.5584	0.4	16146.555 ^D	-1	2.433	4.434	-1.42 ^a	
		4-3	2.05	6138.3138	6136.6153	0.4	16291.119 ^A	-1	2.453	4.473	-1.40 ^b	
466	$a^3H-y^3F^o$ (170)	4-4	2.49	5917.8867	5916.2474	-0.4	16897.924 ^A	1	2.453	4.548	-2.99 ^b	
		5-4	0.78	5859.8892	5858.2654	-0.3	17065.169 ^A	1	2.433	4.548	...	
		4-3	0.60	5755.5656	5753.9697	2.0	17374.487 ^B	-6	2.453	4.607	...	
467	$a^3H-y^5G^o$ (171)	5-4	2.46	4273.1445	4271.9423	1.3	23401.970 ^C	-7	2.433	5.334	...	
		6-5	2.34	4251.3878	4250.1913	2.9	23521.731 ^D	-16	2.404	5.320	...	
468	$a^3H-z^5H^o$ (172)	4-5	1.72	4309.7067	4308.4949	1.5	23203.435 ^C	-8	2.453	5.330	...	
		5-4	2.31	4257.5079	4256.3097	-2.0	23487.919 ^D	11	2.433	5.345	...	
		4-3	3.16	4248.5018	4247.3061	0.4	23537.709 ^A	-2	2.453	5.372	-2.71 ^a	
		6-5	1.60	4237.0104	4235.8177	-3.6	23601.547 ^D	20	2.404	5.330	...	
469	$a^3H-z^5I^o$ (172a)	5-6	2.78	4295.0063	4293.7983	0.0	23282.853 ^B	0	2.433	5.319	...	
		6-6	1.70	4252.8386	4251.6417	-3.1	23513.707 ^C	17	2.404	5.319	...	
		4-4	2.58	4227.5331	4226.3428	-0.9	23654.457 ^B	5	2.453	5.386	...	
		4-5	2.45	4224.4226	4223.2332	-1.1	23671.874 ^B	6	2.453	5.388	...	
		5-4	2.95	4197.8539	4196.6715	0.2	23821.696 ^A	-1	2.433	5.386	...	
		5-5	1.81	4194.7859	4193.6042	-1.1	23839.119 ^B	6	2.433	5.388	...	
		6-5	2.83	4154.5582	4153.3871	0.5	24069.948 ^B	-3	2.404	5.388	...	
		5-4	2.32	4098.1064	4096.9500	0.5	24401.514 ^D	-3	2.433	5.458	...	
471	$a^3H-y^3G^o$ (175)	4-4	3.86	3900.1335	3899.0289	0.0	25640.148 ^A	0	2.453	5.632	-1.81 ^a	
		5-5	3.85	3895.0158	3893.9125	0.2	25673.837 ^A	-1	2.433	5.616	-1.86 ^a	
		4-3	4.69	3879.7703	3878.6709	-0.2	25774.722 ^A	1	2.453	5.649	-0.95 ^a	
		5-4	4.80	3874.8587	3873.7606	0.2	25807.393 ^A	-1	2.433	5.632	-0.88 ^a	
		6-5	4.91	3860.3068	3859.2125	-0.1	25904.677 ^A	1	2.404	5.616	-0.75 ^a	
472	$a^3H-x^5G^o$ (176)	5-6	3.08	3848.0246	3846.9335	-1.0	25987.360 ^B	7	2.433	5.655	-2.00 ^a	
		4-3	2.58	3827.7119	3826.6261	-3.5	26125.268 ^D	24	2.453	5.692	...	
		5-4	2.52	3815.0158	3813.9334	0.6	26212.211 ^C	-4	2.433	5.682	-2.24 ^a	
473	$a^3H-z^3I^o$ (177)	4-5	4.78	3795.4171	3794.3398	0.3	26347.565 ^A	-2	2.453	5.720	-1.01 ^a	
		5-6	4.90	3787.0236	3785.9483	0.1	26405.962 ^A	-1	2.433	5.706	-0.94 ^a	
		5-5	3.38	3771.4757	3770.4045	-1.1	26514.820 ^B	8	2.433	5.720	-2.30 ^a	
		6-7	5.07	3761.1181	3760.0497	-0.1	26587.838 ^A	1	2.404	5.700	-0.85 ^b	
		6-6	3.38	3754.2044	3753.1377	-0.3	26636.802 ^A	2	2.404	5.706	-2.50 ^a	
474	$a^3H-x^3F^o$ (179)	5-4	3.19	3667.2858	3666.2416	1.5	27268.123 ^D	-11	2.433	5.813	-1.15 ^a	I
		4-3	2.86	3662.4064	3661.3635	0.8	27304.452 ^B	-6	2.453	5.839	-2.45 ^b	
475	$a^3H-z^3H^o$ (180)	4-5	3.31	3673.7534	3672.7075	0.0	27220.118 ^B	0	2.453	5.828	-2.11 ^a	II
		4-4	4.47	3660.5593	3659.5168	0.1	27318.230 ^A	-1	2.453	5.840	-0.94 ^a	
		5-6	3.57	3654.7955	3653.7545	-0.1	27361.312 ^A	1	2.433	5.825	-1.80 ^a	
		5-5	4.54	3651.3193	3650.2792	0.1	27387.361 ^D	-1	2.433	5.828	-0.87 ^a	
		5-4	3.58	3638.2853	3637.2486	0.1	27485.475 ^A	-1	2.433	5.840	-1.79 ^a	
		6-6	4.70	3624.2191	3623.1860	-0.1	27592.151 ^A	1	2.404	5.825	-0.77 ^a	
476	$a^3H-w^5G^o$ (181)	6-5	3.30	3620.8009	3619.7687	0.3	27618.199 ^B	-2	2.404	5.828	-2.22 ^a	
		4-5	2.67	3618.9944	3617.9627	-1.4	27631.985 ^C	11	2.453	5.879	...	
		5-6	2.93	3604.5955	3603.5675	0.4	27742.364 ^C	-3	2.433	5.872	...	
		5-5	3.29	3597.2221	3596.1960	-1.2	27799.229 ^B	9	2.433	5.879	-2.04 ^b	
		4-4	3.07	3596.8906	3595.8646	0.4	27801.791 ^B	-3	2.453	5.900	-2.14 ^a	
		4-3	2.75	3583.5868	3582.5642	-2.3	27905.003 ^C	18	2.453	5.913	-2.48 ^a	
		6-6	4.23	3574.8494	3573.8291	0.0	27973.206 ^A	0	2.404	5.872	-1.22 ^a	
		6-5	3.03	3567.5990	3566.5805	0.1	28030.056 ^B	-1	2.404	5.879	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
477	$a^3H-z^1G^\circ$	4-4	2.72	3614.7465	3613.7159	0.9	27664.457 ^C	-7	2.453	5.883	...	
478	$a^3H-v^5F^\circ$ (182)	4-4	2.62	3553.4398	3552.4250	-0.4	28141.746 ^C	3	2.453	5.942	...	
		5-4	2.93	3532.4473	3531.4378	0.2	28308.986 ^C	-2	2.433	5.942	-1.95 ^a	
		4-3	2.46	3529.2470	3528.2384	2.2	28334.656 ^D	-18	2.453	5.966	...	
479	$a^3H-x^3G^\circ$ (183)	4-4	3.29	3568.3877	3567.3690	0.4	28023.861 ^B	-3	2.453	5.928	-2.09 ^a	
		4-3	3.32	3565.5749	3564.5570	-0.1	28045.968 ^B	1	2.453	5.930	-2.07 ^a	
		4-5	3.35	3565.5332	3564.5153	0.0	28046.296 ^B	0	2.453	5.931	-2.28 ^a	
		5-4	2.95	3547.2186	3546.2053	1.0	28191.102 ^C	-8	2.433	5.928	...	
		5-5	3.33	3544.3976	3543.3851	0.4	28213.539 ^B	-3	2.433	5.931	-1.99 ^a	
		6-5	3.35	3515.6323	3514.6272	-0.7	28444.385 ^B	6	2.404	5.931	-2.02 ^a	
480	$a^3H-y^5H^\circ$ (183a)	5-6	3.59	3541.8127	3540.8009	0.6	28234.130 ^B	-5	2.433	5.933	...	
		4-3	3.05	3485.8480	3484.8506	1.1	28687.424 ^C	-9	2.453	6.010	-2.77 ^a	
		5-4	2.85	3479.3656	3478.3698	0.2	28740.872 ^C	-2	2.433	5.996	...	
		6-5	2.74	3467.2756	3466.2829	2.6	28841.088 ^C	-22	2.404	5.980	-2.73 ^a	
481	$a^3H-z^1H^\circ$ (186)	5-5	3.24	3476.8585	3475.8634	-0.2	28761.596 ^B	2	2.433	5.998	...	
482	$a^3H-w^3F^\circ$ (188)	4-4	2.43	3410.5663	3409.5881	-0.2	29320.644 ^D	2	2.453	6.089	...	
		4-3	2.95	3395.0516	3394.0774	-0.1	29454.633 ^B	1	2.453	6.105	-2.23 ^a	
483	$a^3H-y^3H^\circ$ (190)	5-6	2.71	3354.2241	3353.2603	0.0	29813.154 ^C	0	2.433	6.129	-2.05 ^a	
		4-4	3.07	3340.1548	3339.1946	0.6	29938.732 ^B	-5	2.453	6.165	-1.69 ^a	
		5-5	2.90	3335.1766	3334.2177	-0.1	29983.420 ^B	1	2.433	6.150	-2.05 ^a	
		6-6	2.80	3328.4529	3327.4957	0.6	30043.988 ^C	-5	2.404	6.129	...	
		5-4	2.75	3321.5985	3320.6430	-0.7	30105.987 ^B	6	2.433	6.165	...	
484	$a^3H-v^3G^\circ$ (191)	4-5	2.51	3370.1068	3369.1390	-0.2	29672.650 ^C	2	2.453	6.132	...	
		5-4	3.04	3332.5694	3331.6111	-0.1	30006.877 ^B	1	2.433	6.153	-1.57 ^a	
		4-3	3.34	3326.4214	3325.4647	-0.1	30062.337 ^B	1	2.453	6.180	-1.56 ^a	
		6-5	3.46	3325.4930	3324.5366	0.2	30070.729 ^A	-2	2.404	6.132	-1.50 ^a	
485	$a^3H-x^1G^\circ$ (192)	4-4	2.93	3244.0442	3243.1084	0.8	30825.721 ^B	-8	2.453	6.275	-2.17 ^a	
		5-4	2.69	3226.5388	3225.6074	1.1	30992.964 ^B	-11	2.433	6.275	-2.19 ^a	
486	$a^3H-x^3H^\circ$ (192a)	4-5	2.66	3196.8832	3195.9594	-0.2	31280.467 ^C	2	2.453	6.331	...	
		5-6	2.81	3184.4958	3183.5751	0.8	31402.145 ^B	-8	2.433	6.326	...	
		5-5	3.49	3179.8817	3178.9622	-0.1	31447.711 ^A	1	2.433	6.331	...	
		4-4	2.34	3162.4663	3161.5512	-2.0	31620.890 ^D	20	2.453	6.374	...	
		6-6	3.58	3161.2564	3160.3415	-0.2	31632.993 ^A	2	2.404	6.326	...	
		6-5	2.73	3156.7095	3155.7959	-0.9	31678.556 ^B	9	2.404	6.331	...	
		5-4	2	3145.834	3144.923	4.0	31788.07 ^D	-40	2.433	6.374	...	I
487	$a^3H-t^5D^\circ$	5-4	2	3179.089	3178.170	7.1	31455.55 ^D	-70	2.433	6.332	...	
		4-3	d0?	3167.252	3166.336	2.0	31573.11 ^D	-20	2.453	6.368	...	
488	$a^3H-v^3F^\circ$ (193)	4-4	2.88	3172.9561	3172.0383	-0.1	31516.352 ^B	1	2.453	6.361	...	
		4-3	5	3166.850	3165.934	-6.0	31577.12 ^D	60	2.453	6.368	...	II
		5-4	3.07	3156.2070	3155.2934	-0.5	31683.600 ^B	5	2.433	6.361	...	
489	$a^3H-u^3G^\circ$ (194)	4-5	0	3165.993	3165.077	-1.0	31585.67 ^D	10	2.453	6.369	...	
		5-5	2.59	3149.3177	3148.4058	-0.9	31752.910 ^C	9	2.433	6.369	...	
		4-4	2.57	3136.7693	3135.8606	-0.2	31879.935 ^D	2	2.453	6.406	...	II
		6-5	3.80	3126.5886	3125.6825	-0.1	31983.741 ^A	1	2.404	6.369	-0.87 ^a	
		4-3	3.58	3121.3401	3120.4354	-0.2	32037.521 ^A	2	2.453	6.425	-1.13 ^a	
		5-4	3.64	3120.3995	3119.4949	-0.1	32047.179 ^A	1	2.433	6.406	-0.96 ^a	
490	$a^3H-Hsp3^1H^\circ$ (196a)	4-5	d0?	3140.515	3139.606	1.0	31841.91 ^D	-10	2.453	6.401	...	
		5-5	d0?	3124.105	3123.199	0.0	32009.17 ^D	0	2.433	6.401	...	
		6-5	3.36	3101.7361	3100.8363	-0.1	32240.009 ^A	1	2.404	6.401	-1.36 ^a	
491	$a^3H-u^3D^\circ$ (196)	4-3	1*	3107.440	3106.539	1.0	32180.83 ^D	-10	2.453	6.443	...	
492	$a^3H-t^3D^\circ$ (197)	4-3	2	3084.046	3083.150	2.9	32424.94 ^D	-30	2.453	6.473	...	II

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
493	$a^3H-w^3H^o$ (198)	5-6	1.95	3047.8104	3046.9241	-0.2	32810.440 ^D	2	2.433	6.500	...	
		4-5	2.28	3046.4747	3045.5887	0.9	32824.825 ^C	-10	2.453	6.523	-1.57 ^a	
		4-4	3.17	3032.0949	3031.2125	-0.9	32980.498 ^C	10	2.453	6.542	...	
		5-5	4.14	3031.0305	3030.1483	0.0	32992.080 ^A	0	2.433	6.523	-0.12 ^a	
		6-6	4.30	3026.5174	3025.6364	-0.2	33041.277 ^A	2	2.404	6.500	0.02 ^a	
		5-4	3.14	3016.7976	3015.9191	0.2	33147.732 ^A	-2	2.433	6.542	-1.14 ^b	
		6-5	3.33	3009.9700	3009.0932	-0.3	33222.922 ^A	3	2.404	6.523	-0.94 ^a	
494	$a^3H-y^3I^o$ (199)	5-6	2.49	3040.2016	3039.3171	-0.5	32892.556 ^C	5	2.433	6.511	-1.54 ^a	
		4-5	2.83	3020.1670	3019.2875	-0.8	33110.752 ^B	9	2.453	6.558	-1.46 ^a	
		6-6	2.61	3019.0142	3018.1351	-0.5	33123.395 ^C	6	2.404	6.511	-1.67 ^b	
		6-7	3.11	3006.1786	3005.3027	-0.3	33264.823 ^A	3	2.404	6.528	-1.22 ^a	
		5-5	2.90	3004.9893	3004.1136	-0.1	33277.989 ^B	1	2.433	6.558	-1.38 ^a	
		6-5	d0	2984.290	2983.419	0.9	33508.81 ^D	-10	2.404	6.558	...	
495	$a^3H-^4F5p^3G^o$	4-5	0	3028.581	3027.700	1.8	33018.76 ^D	-20	2.453	6.547	...	
		5-5	2.72	3013.3191	3012.4414	-0.5	33185.997 ^B	6	2.433	6.547	...	
		6-5	3.27	2992.5039	2991.6314	-0.2	33416.832 ^A	2	2.404	6.547	...	
		4-4	0	2921.478	2920.623	6.0	34229.25 ^D	-70	2.453	6.697	...	
		5-4	2.43	2907.2659	2906.4145	-0.6	34396.578 ^C	7	2.433	6.697	...	
		4-3	2.11	2892.7541	2891.9062	1.5	34569.133 ^C	-18	2.453	6.739	...	
496	$a^3H-Gsp3^3F^o$	4-4	0	3015.193	3014.315	0.0	33165.37 ^D	0	2.453	6.565	...	
		5-4	2.67	3000.0627	2999.1882	-1.5	33332.637 ^B	17	2.433	6.565	...	
		4-3	2	2978.919	2978.050	3.5	33569.22 ^D	-40	2.453	6.615	...	
497	$a^3H-^4F5p^5G^o$	6-6	d0?	2969.199	2968.332	5.3	33679.12 ^D	-60	2.404	6.580	...	
		5-5	0	2944.164	2943.303	0.0	33965.50 ^D	0	2.433	6.644	...	
		6-5	6	2924.286	2923.431	-3.4	34196.38 ^D	40	2.404	6.644	...	I
		4-3	1*	2911.516	2910.663	2.5	34346.37 ^D	-30	2.453	6.712	...	
498	$a^3H-^4F5p^5F^o$	5-5	d0?	2988.300	2987.429	-5.4	33463.84 ^D	60	2.433	6.581	...	
		4-4	0	2976.156	2975.287	0.0	33600.39 ^D	0	2.453	6.619	...	
		5-4	2.51	2961.4157	2960.5508	-0.5	33767.634 ^B	6	2.433	6.619	...	
		4-3	1.95	2952.2210	2951.3585	1.9	33872.803 ^D	-22	2.453	6.653	...	
499	$a^3H-z^1I^o$ (200)	5-6	2.48	2987.5259	2986.6546	0.5	33472.513 ^C	-6	2.433	6.583	-1.83 ^b	
		6-6	2.46	2967.0637	2966.1974	0.2	33703.355 ^D	-2	2.404	6.583	...	I
500	$a^3H-y^1H^o$	4-5	0	2982.841	2981.970	8.0	33525.09 ^D	-90	2.453	6.610	...	
		5-5	0	2968.040	2967.173	14.1	33692.27 ^D	-160	2.433	6.610	...	
		6-5	0	2947.836	2946.975	6.1	33923.19 ^D	-70	2.404	6.610	...	
501	$a^3H-^4F5p^3F^o$ (UV147,20)	4-4	d0	2981.462	2980.592	0.0	33540.59 ^D	0	2.453	6.612	...	
		5-4	2.81	2966.6700	2965.8039	-0.1	33707.827 ^B	1	2.433	6.612	...	
		4-3	1	2898.493	2897.644	7.6	34500.69 ^D	-90	2.453	6.731	...	
502	$a^3H-^4F5p^5D^o$	5-4	2.20	2942.0948	2941.2348	1.3	33989.387 ^C	-15	2.433	6.647	...	
		4-3	1.90	2941.4822	2940.6223	2.5	33996.466 ^D	-29	2.453	6.668	...	
503	$a^3H-Dsp3^5F^o$	4-3	2.78	2945.9125	2945.0516	0.0	33945.339 ^A	0	2.453	6.662	...	
		5-5	1	2907.592	2906.741	1.7	34392.72 ^D	-20	2.433	6.697	...	II
		6-5	2	2888.207	2887.360	1.7	34623.56 ^D	-20	2.404	6.697	...	
504	$a^3H-^4F5p^3D^o$	4-3	2.04	2936.8911	2936.0324	-1.3	34049.611 ^D	15	2.453	6.675	...	
505	$a^3H-Dsp3^5D^o$	4-3	3	2932.271	2931.413	0.9	34103.26 ^D	-10	2.453	6.681	...	
		5-4	0	2883.478	2882.633	0.0	34680.34 ^D	0	2.433	6.732	...	
506	$a^3H-t^3G^o$ (UV149)	5-5	2.04	2910.1668	2909.3147	-0.7	34362.291 ^D	8	2.433	6.693	...	
		4-4	1	2902.826	2901.976	-1.7	34449.19 ^D	20	2.453	6.724	...	
		6-5	2.30	2890.7473	2889.9000	-0.8	34593.131 ^C	10	2.404	6.693	-2.11 ^a	
		5-4	3	2888.805	2887.958	0.8	34616.39 ^D	-10	2.433	6.724	-1.80 ^a	
		4-3	2	2872.567	2871.724	1.7	34812.07 ^D	-20	2.453	6.769	...	
507	$a^3H-t^5P^o$	4-3	2	2922.571	2921.716	0.9	34216.45 ^D	-10	2.453	6.696	...	
508	$a^3H-s^3G^o$ (UV153)	5-5	2.66	2792.6091	2791.7858	0.2	35808.807 ^D	-3	2.433	6.872	...	I
		4-3	1.79	2777.5867	2776.7671	-2.6	36002.476 ^D	34	2.453	6.917	...	II
		6-5	1.73	2774.7240	2773.9051	2.1	36039.620 ^D	-27	2.404	6.872	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
509	$a^3H-v^3H^o$ (UV151)	4-4	d0?	2768.762	2767.944	3.8	36117.23 ^D	-50	2.453	6.931	...	
		5-4	2.24	2755.9962	2755.1819	0.5	36284.520 ^B	-7	2.433	6.931	-1.28 ^a	
		4-4	2.63	2804.4395	2803.6134	0.3	35657.749 ^B	-4	2.453	6.874	-0.96 ^a	
		4-5	d0?	2798.199	2797.375	2.3	35737.27 ^D	-30	2.453	6.884	...	
		5-6	0	2787.948	2787.125	3.9	35868.68 ^D	-50	2.433	6.880	...	
		5-5	2.00	2785.1635	2784.3420	1.4	35904.535 ^C	-18	2.433	6.884	-1.53 ^a	
		6-6	2.97	2770.1159	2769.2982	-0.1	36099.572 ^A	1	2.404	6.880	-0.57 ^a	
510	$a^3H-^2H4p^1H^o$	6-5	2.03	2767.3687	2766.5516	-1.4	36135.409 ^D	18	2.404	6.884	...	I
511	$a^3H-Gsp3^1F^o$	4-3	11*	2754.099	2753.285	4.6	36309.52 ^D	-60	2.453	6.955	...	II
512	$a^3H-s^6D6p^7D^o$	5-5	d0	2739.784	2738.973	6.8	36499.23 ^D	-90	2.433	6.958	...	
		5-4	1.38	2710.3431	2709.5398	2.6	36895.698 ^D	-36	2.433	7.007	...	
513	$a^3H-s^6D6p^7F^o$	5-6	1	2729.258	2728.450	-1.5	36640.00 ^D	20	2.433	6.975	...	
		5-5	d7	2711.348	2710.545	-5.1	36882.02 ^D	70	2.433	7.005	...	I
		4-3	1	2685.382	2684.585	3.6	37238.65 ^D	-50	2.453	7.070	...	
514	$a^3H-u^3H^o$ (UV154)	4-4	2.85	2729.6282	2728.8202	0.2	36635.026 ^A	-3	2.453	6.995	-0.52 ^a	
		5-6	1	2723.832	2723.025	-2.2	36712.99 ^D	30	2.433	6.984	...	
		5-5	3.00	2720.2260	2719.4203	0.1	36761.651 ^A	-1	2.433	6.990	-0.41 ^a	
		5-4	1.91	2717.2236	2716.4187	0.2	36802.271 ^C	-3	2.433	6.995	-1.31 ^a	
		6-6	2.91	2706.8150	2706.0126	0.1	36943.788 ^A	-1	2.404	6.984	-0.49 ^a	
		6-5	2.03	2703.2518	2702.4502	0.5	36992.484 ^B	-7	2.404	6.990	-1.29 ^a	
515	$a^3H-u^3F^o$ (UV155)	4-4	1.94	2717.0624	2716.2574	-0.4	36804.455 ^C	6	2.453	7.016	-1.43 ^a	
		4-3	d0?	2703.065	2702.264	1.5	36995.04 ^D	-20	2.453	7.040	...	
516	$a^3H-s^6D_{4,5}4f[5.5]^o$ $a^3H-s^6D_{4,5}4f[4.5]^o$ $a^3H-s^6D_{4,5}4f[5.5]^o$	4-5	2.22	2705.4172	2704.6151	-2.3	36962.876 ^D	31	2.453	7.036	...	
		4-4	0	2705.139	2704.337	0.0	36966.68 ^D	0	2.453	7.036	...	
		5-6	6*	2693.400	2692.601	7.3	37127.79 ^D	-100	2.433	7.036	...	II
517	$a^3H-x^3I^o$ (UV156)	4-5	2.46	2679.8202	2679.0242	1.8	37315.937 ^A	-25	2.453	7.080	-0.89 ^a	
		5-6	2.65	2670.2869	2669.4933	0.1	37449.159 ^A	-2	2.433	7.076	-0.73 ^a	
		6-7	2.68	2656.9359	2656.1454	0.1	37637.340 ^B	-1	2.404	7.070	-0.59 ^a	
		6-6	0	2653.928	2653.138	0.0	37680.00 ^D	0	2.404	7.076	...	
518	$a^3H-t^3F^o$	4-4	2	2648.184	2647.395	1.4	37761.73 ^D	-20	2.453	7.135	...	II
		4-3	1.52	2641.8162	2641.0293	-0.1	37852.747 ^C	1	2.453	7.146	-1.25 ^a	
		5-4	1.88	2636.5069	2635.7213	1.9	37928.974 ^C	-27	2.433	7.135	-1.39 ^a	
519	$a^3H-s^4D5p^3F^o$	4-3	3	2544.442	2543.678	1.3	39301.35 ^D	-20	2.453	7.326	...	
520	$a^3H-Hsp1^3G^o$	4-5	0	2615.725	2614.944	-0.7	38230.32 ^D	10	2.453	7.193	...	
		5-5	1.81	2604.3326	2603.5546	-0.2	38397.554 ^C	3	2.433	7.193	...	
		4-4	1.49	2594.2765	2593.5010	-2.2	38546.392 ^C	33	2.453	7.232	...	
		6-5	2.86	2588.7696	2587.9954	0.1	38628.389 ^B	-1	2.404	7.193	...	
		5-4	2.80	2583.0710	2582.2981	-0.4	38713.609 ^A	6	2.433	7.232	...	
		4-3	2.75	2576.5166	2575.7453	-0.1	38812.092 ^A	2	2.453	7.265	...	
521	$a^3H-s^4D5p^5F^o$	4-4	d0?	2584.441	2583.668	-2.7	38693.09 ^D	40	2.453	7.251	...	
		5-4	3	2573.320	2572.549	-0.7	38860.31 ^D	10	2.433	7.251	...	II
522	$a^3H-^4F_{4,5}4f[5.5]^o$ $a^3H-^4F_{4,5}4f[3.5]^o$ $a^3H-^4F_{4,5}4f[5.5]^o$ $a^3H-^4F_{4,5}4f[6.5]^o$ $a^3H-^4F_{4,5}4f[4.5]^o$ $a^3H-^4F_{4,5}4f[3.5]^o$ $a^3H-^4F_{4,5}4f[6.5]^o$	4-5	d0?	2569.859	2569.089	-4.0	38912.64 ^D	60	2.453	7.278	...	
		4-4	10*	2569.176	2568.407	0.7	38922.98 ^D	-10	2.453	7.279	...	II
		5-6	1.11	2558.8817	2558.1145	-2.8	39079.572 ^C	42	2.433	7.278	...	
		5-6	1.53	2558.7458	2557.9786	1.6	39081.647 ^D	-25	2.433	7.278	...	
		5-4	1	2558.596	2557.829	-1.3	39083.93 ^D	20	2.433	7.278	...	II
		5-4	2	2558.188	2557.421	3.9	39090.17 ^D	-60	2.433	7.279	...	
		6-7	2.98	2543.4996	2542.7360	-0.8	39315.909 ^D	13	2.404	7.278	...	II
523	$a^3H-Hsp1^3I^o$	4-5	3.17	2544.6864	2543.9225	-0.1	39297.573 ^B	1	2.453	7.325	0.70 ^a	
		5-6	3.26	2542.8647	2542.1013	-0.2	39325.726 ^A	3	2.433	7.308	0.75 ^a	
		6-7	3.32	2537.9370	2537.1747	0.1	39402.082 ^A	-1	2.404	7.289	0.73 ^a	
		5-5	1.99	2533.9029	2533.1415	0.4	39464.812 ^B	-6	2.433	7.325	-0.66 ^a	
		6-6	2.20	2528.0262	2527.2662	0.6	39556.552 ^B	-9	2.404	7.308	-0.36 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
524	$a^3H-^4F_{1.5}4f [3.5]^o$	4-3	1	2490.099	2489.348	1.2	40159.05 ^D	-20	2.453	7.432	...	II
	$a^3H-^4F_{1.5}4f [4.5]^o$	4-5	0	2489.279	2488.528	-2.5	40172.27 ^D	40	2.453	7.434	...	
	$a^3H-^4F_{1.5}4f [4.5]^o$	5-5	2.17	2478.9596	2478.2111	-1.8	40339.503 ^D	30	2.433	7.434	...	II
	$a^3H-^4F_{1.5}4f [4.5]^o$	5-4	2	2478.927	2478.179	-4.9	40340.03 ^D	80	2.433	7.434	...	I
525	$a^3H-F_{sp1}^3F^o$	4-4	1.96	2480.9371	2480.1881	-0.3	40307.350 ^C	5	2.453	7.451	...	
		4-3	1.63	2476.2151	2475.4672	-0.2	40384.213 ^C	3	2.453	7.460	...	
		5-4	1.53	2470.6857	2469.9391	-0.2	40474.593 ^C	4	2.433	7.451	...	
526	$a^3H-F_{sp1}^3G^o$	5-5	1.20	2461.0452	2460.3007	1.0	40633.143 ^B	-17	2.433	7.470	...	
		4-4	15*	2458.333	2457.589	-3.6	40677.97 ^D	60	2.453	7.497	...	II
527	$a^3H-t^3H^o$ (UV157)	5-6	1.62	2454.3118	2453.5690	0.5	40744.619 ^B	-9	2.433	7.484	-0.84 ^a	
		4-5	1.41	2453.3346	2452.5919	0.8	40760.849 ^C	-13	2.453	7.507	...	
		5-5	2.64	2443.3088	2442.5685	0.1	40928.105 ^A	-2	2.433	7.507	0.49 ^a	
		4-4	2.65	2440.8495	2440.1097	-0.1	40969.343 ^A	2	2.453	7.533	...	
		6-6	3.24	2440.4846	2439.7449	-0.1	40975.468 ^A	2	2.404	7.484	0.60 ^a	
		5-4	1.79	2430.9275	2430.1900	1.5	41136.562 ^B	-25	2.433	7.533	...	
		6-5	2	2429.608	2428.871	2.4	41158.90 ^D	-40	2.404	7.507	...	
528	$a^3H-G_{sp1}^3H^o$	6-6	0	2291.183	2290.477	0.5	43645.57 ^D	-10	2.404	7.815	...	
529	$b^3F-z^5D^o$	4-4	0.48	19015.481	19010.290	14	5258.873 ^A	-4	2.559	3.211	...	
530	$b^3F-z^5F^o$	4-5	1.30	16042.511	16038.129	3	6233.438 ^A	-1	2.559	3.332	...	
		3-4	0.85	15892.344	15888.003	-3	6292.338 ^A	1	2.588	3.368	...	
		4-4	0.30	15324.028	15319.842	23	6525.699 ^B	-10	2.559	3.368	...	
531	$b^3F-z^3F^o$ (202)	3-4	1.84	9585.1894	9582.5610	-0.9	10432.762 ^A	1	2.588	3.881	...	
		4-4	2.99	9375.4691	9372.8974	0.9	10666.133 ^A	-1	2.559	3.881	-2.61 ^a	
		2-3	1.85	9288.4310	9285.8829	1.7	10766.081 ^A	-2	2.608	3.943	...	
		3-3	3.12	9148.6395	9146.1293	0.8	10930.587 ^A	-1	2.588	3.943	-2.80 ^a	
		2-2	2.81	9013.0681	9010.5946	0.8	11095.001 ^A	-1	2.608	3.984	-2.95 ^a	
		4-3	1.81	8957.3975	8954.9390	2.4	11163.957 ^A	-3	2.559	3.943	...	
		3-2	1.45	8881.3843	8878.9464	1.6	11259.506 ^B	-2	2.588	3.984	...	
532	$b^3F-z^3D^o$ (203)	2-2	1.48	9391.9986	9389.4225	1.8	10647.361 ^A	-2	2.608	3.928	...	
		4-3	2.73	9361.9810	9359.4130	1.8	10681.500 ^A	-2	2.559	3.883	-2.86 ^a	
		3-2	2.58	9249.0964	9246.5589	1.7	10811.867 ^A	-2	2.588	3.928	-2.94 ^a	
		2-1	2.37	9175.7127	9173.1951	0.8	10898.336 ^A	-1	2.608	3.960	...	
533	$b^3F-y^5F^o$ (204)	4-4	1.76	7463.5755	7461.5206	0.0	13398.404 ^A	0	2.559	4.220	-3.58 ^b	
534	$b^3F-z^5G^o$ (205)	4-4	2.76	6841.7179	6839.8305	0.5	14616.212 ^A	-1	2.559	4.371	-3.45 ^b	
		3-3	2.90	6785.5762	6783.7039	-0.5	14737.142 ^A	1	2.588	4.415	-3.98 ^b	
		2-2	2.70	6748.8173	6746.9549	1.4	14817.411 ^A	-3	2.608	4.445	-4.35 ^b	
535	$b^3F-z^3G^o$ (206)	4-5	2.45	6785.1379	6783.2657	1.4	14738.094 ^B	-3	2.559	4.386	-4.52 ^c	
		2-3	3.07	6648.7673	6646.9318	0.9	15040.382 ^A	-2	2.608	4.473	-3.99 ^b	
		4-4	4.38	6610.9356	6609.1103	0.0	15126.452 ^A	0	2.559	4.434	-2.69 ^b	
		3-3	4.35	6576.8320	6575.0158	0.0	15204.889 ^A	0	2.588	4.473	-2.71 ^a	
		4-3	4.12	6477.4139	6475.6244	0.4	15438.260 ^A	-1	2.559	4.473	-2.94 ^a	
536	$b^3F-y^3F^o$ (207)	3-4	4.19	6324.4338	6322.6855	0.0	15811.692 ^A	0	2.588	4.548	-2.43 ^b	
		4-4	3.82	6232.4467	6230.7230	0.4	16045.063 ^A	-1	2.559	4.548	-1.28 ^b	
		2-3	2.74	6202.0285	6200.3129	0.0	16123.757 ^A	0	2.608	4.607	-2.44 ^b	
		3-3	3.83	6139.3904	6137.6917	0.0	16288.262 ^A	0	2.588	4.607	-1.40 ^b	
		2-2	3.68	6067.1615	6065.4822	0.0	16482.172 ^D	0	2.608	4.652	-1.53 ^b	I
		3-2	1.69	6007.2046	6005.5413	-0.7	16646.678 ^A	2	2.588	4.652	...	
537	$b^3F-y^3D^o$ (209)	2-3	1.15	5835.5440	5833.9267	1.0	17136.363 ^A	-3	2.608	4.733	-3.66 ^b	
		3-3	1.76	5780.0558	5778.4533	-0.3	17300.871 ^D	1	2.588	4.733	-3.59 ^b	I
		4-3	3.05	5703.1265	5701.5446	0.0	17534.242 ^A	0	2.559	4.733	-2.22 ^b	
		2-2	0.30	5669.2376	5667.6648	-1.9	17639.056 ^B	6	2.608	4.795	-3.03 ^b	
		3-2	2.83	5616.8554	5615.2966	-0.6	17803.556 ^A	2	2.588	4.795	-2.25 ^a	
		2-1	2.61	5568.9371	5567.3911	-0.3	17956.748 ^A	1	2.608	4.835	-2.67 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
538	$b^3F-z^5H^o$	3-3	2.33	4454.0488	4452.7989	-0.6	22451.483 ^C	3	2.588	5.372	...	
539	$b^3F-w^5D^o$ (214)	3-3	2.00	4338.7366	4337.5171	-0.2	23048.184 ^D	1	2.588	5.446	...	
		4-3	2.61	4295.2457	4294.0377	0.2	23281.555 ^B	-1	2.559	5.446	...	
		3-2	2.53	4290.1628	4288.9560	0.7	23309.139 ^C	-4	2.588	5.478	-2.40 ^a	
540	$b^3F-v^5D^o$ (216)	3-4	2.49	4320.0155	4318.8010	-4.5	23148.065 ^D	24	2.588	5.458	...	
		3-3	2.22	4293.3707	4292.1631	-0.4	23291.723 ^C	2	2.588	5.476	...	
		4-4	2.46	4276.9019	4275.6986	0.4	23381.411 ^C	-2	2.559	5.458	-2.86 ^a	
		4-3	2.16	4250.7761	4249.5797	-4.2	23525.116 ^C	23	2.559	5.476	...	
		3-2	2.36	4203.5140	4202.3300	-5.3	23789.620 ^D	30	2.588	5.537	...	
541	$b^3F-y^5S^o$	3-2	2.02	4230.5950	4229.4040	-1.6	23637.337 ^D	9	2.588	5.519	...	
542	$b^3F-x^3D^o$ (217)	2-2	2.98	4124.9294	4123.7661	0.7	24242.839 ^B	-4	2.608	5.614	...	
		3-3	2.97	4107.4175	4106.2587	-0.3	24346.198 ^B	2	2.588	5.606	-2.30 ^b	
		3-2	3.75	4097.1268	4095.9707	0.2	24407.348 ^A	-1	2.588	5.614	-1.48 ^a	
		2-1	3.73	4079.5053	4078.3539	0.2	24512.776 ^A	-1	2.608	5.648	-1.47 ^a	
		4-3	3.92	4068.4198	4067.2712	0.0	24579.568 ^A	0	2.559	5.606	-1.42 ^b	
543	$b^3F-y^3G^o$ (218)	2-3	3.47	4077.6407	4076.4898	0.0	24523.985 ^A	0	2.608	5.649	-2.11 ^a	
		3-4	3.54	4072.6698	4071.5201	-0.2	24553.918 ^A	1	2.588	5.632	-2.02 ^a	
		4-5	3.68	4056.1809	4055.0355	0.0	24653.733 ^A	0	2.559	5.616	-1.92 ^a	
		3-3	3.15	4050.4708	4049.3270	0.2	24688.488 ^A	-1	2.588	5.649	-2.44 ^a	
		4-4	2.82	4034.3260	4033.1863	0.2	24787.288 ^B	-1	2.559	5.632	-2.73 ^a	
		4-3	3.00	4012.5414	4011.4075	0.0	24921.861 ^A	0	2.559	5.649	-2.42 ^a	
544	$b^3F-x^5G^o$ (219)	2-3	2.31	4020.1779	4019.0420	-2.3	24874.521 ^C	14	2.608	5.692	-2.78 ^b	
		2-2	2.64	4011.8819	4010.7481	1.4	24925.958 ^D	-9	2.608	5.699	...	
		3-4	2.81	4006.6146	4005.4822	1.8	24958.727 ^D	-11	2.588	5.682	...	II
		4-5	2.62	3986.4431	3985.3159	-0.2	25085.019 ^C	1	2.559	5.669	...	
545	$b^3F-z^3I^o$ (220)	4-5	3.03	3922.3828	3921.2724	0.2	25494.707 ^B	-1	2.559	5.720	-2.85 ^a	
546	$b^3F-u^5D^o$ (221)	3-4	3.22	3869.0171	3867.9205	0.0	25846.358 ^B	0	2.588	5.792	-1.85 ^a	
		3-2	2.84	3844.0788	3842.9887	-0.4	26014.035 ^C	3	2.588	5.813	-2.36 ^a	
		4-4	4.15	3834.3957	3833.3082	0.1	26079.729 ^A	-1	2.559	5.792	-1.03 ^b	
		4-3	2.82	3830.8508	3829.7642	2.6	26103.862 ^D	-18	2.559	5.795	-1.99 ^b	
547	$b^3F-x^3F^o$ (222)	3-4	3.05	3843.9863	3842.8963	-0.6	26014.661 ^B	4	2.588	5.813	-2.01 ^a	
		2-3	3.44	3838.2235	3837.1350	0.3	26053.720 ^A	-2	2.608	5.839	-1.78 ^a	
		2-2	4.09	3822.9190	3821.8345	-0.1	26158.022 ^A	1	2.608	5.851	-1.10 ^a	
		3-3	4.23	3814.1403	3813.0580	-0.1	26218.228 ^A	1	2.588	5.839	-1.07 ^a	
		4-4	3.98	3809.8097	3808.7286	-0.1	26248.030 ^A	1	2.559	5.813	-1.16 ^b	
		3-2	3.31	3799.0275	3797.9492	0.0	26322.526 ^B	0	2.588	5.851	-1.99 ^a	
		4-3	3.29	3780.4895	3779.4160	-0.3	26451.601 ^B	2	2.559	5.839	-1.99 ^a	
548	$b^3F-z^3H^o$ (223)	4-5	3.33	3792.5825	3791.5058	0.0	26367.258 ^A	0	2.559	5.828	-1.98 ^a	
		4-4	3.68	3778.5225	3777.4495	0.1	26465.371 ^A	-1	2.559	5.840	-1.78 ^b	
549	$b^3F-w^3D^o$ (224)	2-3	2.89	3849.3802	3848.2888	-1.5	25978.208 ^B	10	2.608	5.829	...	
		2-2	3.24	3831.8443	3830.7574	0.0	26097.094 ^B	0	2.608	5.844	-1.94 ^a	
		3-3	3.54	3825.1598	3824.0746	0.7	26142.699 ^A	-5	2.588	5.829	...	
		3-2	2.64	3807.8410	3806.7603	-0.3	26261.601 ^C	2	2.588	5.844	...	
		4-3	2.52	3791.3150	3790.2386	0.3	26376.073 ^C	-2	2.559	5.829	...	
550	$b^3F-w^5G^o$ (225)	2-3	2.67	3751.7473	3750.6813	0.4	26654.247 ^C	-3	2.608	5.913	...	
		4-5	3.27	3734.2529	3733.1914	-0.3	26779.118 ^B	2	2.559	5.879	...	
		2-2	3.87	3732.4347	3731.3737	0.0	26792.163 ^A	0	2.608	5.930	-1.45 ^b	
		3-3	3.74	3728.7339	3727.6738	-0.1	26818.755 ^A	1	2.588	5.913	-1.49 ^a	
		4-4	3.48	3710.7208	3709.6654	-0.8	26948.942 ^A	6	2.559	5.900	-1.75 ^a	
		3-2	3.13	3709.6577	3708.6025	0.6	26956.665 ^B	-4	2.588	5.930	-2.08 ^a	
		4-3	2.70	3696.5663	3695.5146	-0.8	27052.132 ^C	6	2.559	5.913	-2.64 ^a	
551	$b^3F-P_{sp3}^1D^o$ (226)	2-2	2.88	3790.6500	3789.5738	-0.3	26380.700 ^C	2	2.608	5.879	...	
		3-2	3.14	3767.1588	3766.0888	-0.3	26545.204 ^B	2	2.588	5.879	-2.14 ^b	
552	$b^3F-z^1G^o$ (227)	3-4	3.66	3762.4774	3761.4085	0.0	26578.233 ^A	0	2.588	5.883	-1.70 ^a	
		4-4	3.73	3729.7284	3728.6680	0.0	26811.604 ^A	0	2.559	5.883	-1.61 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
553	$b^3F-v^5F^o$ (229)	4-5	3.35	3708.5114	3707.4566	0.6	26964.997 ^A	-4	2.559	5.902	-1.74 ^a	I
		3-4	4.53	3696.1031	3695.0515	-1.2	27055.522 ^D	9	2.588	5.942	-0.34 ^a	
		3-3	2.61	3669.9370	3668.8921	2.6	27248.424 ^C	-19	2.588	5.966	-2.47 ^b	
		4-4	3.30	3664.4948	3663.4514	-0.8	27288.891 ^B	6	2.559	5.942	-1.70 ^a	
		4-3	2.62	3638.7710	3637.7342	1.3	27481.806 ^C	-10	2.559	5.966	...	
554	$b^3F-x^3G^o$ (228)	2-3	4.17	3732.0072	3730.9463	0.0	26795.232 ^A	0	2.608	5.930	-1.29 ^a	
		3-4	4.15	3712.2785	3711.2227	-0.1	26937.634 ^A	1	2.588	5.928	-1.17 ^a	
		4-4	2.64	3680.3937	3679.3461	-0.1	27171.006 ^C	1	2.559	5.928	...	
		4-5	4.43	3677.3578	3676.3110	-0.1	27193.438 ^A	1	2.559	5.931	-0.99 ^b	
555	$b^3F-y^5H^o$ (231a)	2-3	4.00	3644.7537	3643.7154	0.1	27436.696 ^A	-1	2.608	6.010	-1.44 ^a	
		3-4	4.02	3638.0308	3636.9941	0.0	27487.398 ^A	0	2.588	5.996	-1.46 ^a	
		4-5	3.98	3624.4797	3623.4466	0.0	27590.167 ^A	0	2.559	5.980	-1.60 ^a	
		4-4	2.89	3607.4047	3606.3760	1.3	27720.760 ^C	-10	2.559	5.996	-2.52 ^a	
556	$b^3F-x^3P^o$ (235)	3-2	2.41	3645.6241	3644.5855	1.6	27430.146 ^D	-12	2.588	5.989	-2.45 ^b	
557	$b^3F-z^1H^o$	4-5	2.94	3604.7090	3603.6810	0.1	27741.490 ^B	-1	2.559	5.998	-2.01 ^a	
558	$b^3F-y^1G^o$ (237)	3-4	2.88	3593.4953	3592.4702	-1.2	27828.059 ^C	9	2.588	6.038	-2.47 ^b	
559	$b^3F-w^3F^o$ (238)	2-2	3.06	3521.8532	3520.8465	-0.1	28394.142 ^C	1	2.608	6.129	-1.86 ^a	
		4-4	2.82	3512.7421	3511.7377	-0.7	28467.789 ^C	6	2.559	6.089	-2.43 ^b	
		3-2	3.58	3501.5662	3500.5647	-0.2	28558.649 ^B	2	2.588	6.129	-1.31 ^a	
		4-3	4.24	3496.2869	3495.2867	0.2	28601.772 ^A	-2	2.559	6.105	-0.92 ^b	
560	$b^3F-v^3D^o$ (239)	2-2	3.47	3545.6426	3544.6298	-0.1	28203.632 ^B	1	2.608	6.105	-1.86 ^b	
		2-1	4.02	3538.7401	3537.7291	0.0	28258.645 ^A	0	2.608	6.112	-1.13 ^a	
		3-3	3.54	3538.5031	3537.4921	0.1	28260.538 ^B	-1	2.588	6.092	-1.53 ^a	
		3-2	4.10	3525.0817	3524.0742	0.0	28368.137 ^A	0	2.588	6.105	-1.15 ^b	
		4-3	3.52	3509.5217	3508.5182	0.0	28493.911 ^B	0	2.559	6.092	-1.57 ^a	
561	$b^3F-y^3H^o$ (241)	3-4	2.56	3465.9031	3464.9108	-0.4	28852.509 ^D	3	2.588	6.165	...	
562	$b^3F-v^3G^o$ (242)	3-4	3.66	3477.8497	3476.8543	0.0	28753.399 ^A	0	2.588	6.153	-1.28 ^a	
		2-3	3.40	3470.8241	3469.8305	-0.1	28811.601 ^B	1	2.608	6.180	-1.63 ^b	
		4-5	3.71	3469.8378	3468.8445	-0.2	28819.791 ^A	2	2.559	6.132	-1.29 ^a	
563	$b^3F-Fsp3^1F^o$ (243*)	4-3	3.40	3467.8856	3466.8927	-0.1	28836.015 ^B	1	2.559	6.134	...	
564	$b^3F-w^3P^o$ (244)	2-1	2.51	3447.7745	3446.7868	0.7	29004.217 ^D	-6	2.608	6.204	...	
565	$b^3F-x^3H^o$ (248)	4-4	3.16	3250.1284	3249.1911	-0.4	30768.015 ^B	4	2.559	6.374	...	
566	$b^3F-v^3F^o$ (250)	2-2	3.08	3315.3967	3314.4428	-0.3	30162.303 ^B	3	2.608	6.348	...	
		3-2	2.86	3297.4131	3296.4638	0.1	30326.804 ^B	-1	2.588	6.348	...	
		3-3	3.25	3279.6761	3278.7313	1.1	30490.816 ^B	-10	2.588	6.368	...	
		4-4	3.21	3261.2073	3260.2672	0.0	30663.491 ^A	0	2.559	6.361	...	
		4-3	2.54	3254.7624	3253.8239	-1.1	30724.209 ^D	10	2.559	6.368	...	
567	$b^3F-u^3G^o$ (252)	4-5	3.36	3253.8527	3252.9144	-0.2	30732.799 ^A	2	2.559	6.369	-1.42 ^a	
		2-3	3.07	3248.1468	3247.2100	-0.2	30786.786 ^B	2	2.608	6.425	-1.73 ^a	
		3-4	3.30	3247.4169	3246.4802	-0.5	30793.706 ^B	5	2.588	6.406	-1.45 ^a	
		3-3	d0?	3230.887	3229.955	3.1	30951.25 ^D	-30	2.588	6.425	...	
		4-4	14	3222.989	3222.059	-2.1	31027.10 ^D	20	2.559	6.406	...	
		4-3	1	3206.704	3205.778	0.0	31184.67 ^D	0	2.559	6.425	...	
568	$b^3F-Hsp3^1H^o$	4-5	2.88	3226.9449	3226.0135	0.3	30989.063 ^B	-3	2.559	6.401	-1.95 ^a	
569	$b^3F-y^1D^o$ (255)	3-2	2.30	3243.1933	3242.2578	1.6	30833.808 ^D	-15	2.588	6.411	...	
570	$b^3F-x^1D^o$ (257)	2-2	3.13	3254.8813	3253.9428	0.0	30723.087 ^B	0	2.608	6.417	...	
571	$b^3F-u^3D^o$ (258)	2-3	0	3233.094	3232.161	0.0	30930.12 ^D	0	2.608	6.443	...	I
		2-2	2.40	3199.1886	3198.2642	0.3	31257.926 ^D	-3	2.608	6.484	...	
		4-3	2.75	3192.0342	3191.1116	0.3	31327.985 ^C	-3	2.559	6.443	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
572	$b^3F-^2P4p^1P^o$	3-2	3.31	3182.4396	3181.5194	0.0	31422.435 ^A	0	2.588	6.484	-0.86 ^a	
		2-1	2.72	3177.2781	3176.3593	-1.3	31473.480 ^C	13	2.608	6.510	-1.57 ^a	
573	$b^3F-t^3D^o$ (259)	2-1	2.87	3211.1139	3210.1865	-1.0	31141.841 ^B	10	2.608	6.469	...	
		2-3	d0?	3207.782	3206.855	5.1	31174.19 ^D	-50	2.608	6.473	...	
		3-3	2.66	3190.9387	3190.0163	0.4	31338.741 ^C	-4	2.588	6.473	...	
		4-3	3.56	3167.3518	3166.4355	0.2	31572.116 ^A	-2	2.559	6.473	-0.92 ^b	
		2-2	1	3160.165	3159.250	1.0	31643.92 ^D	-10	2.608	6.532	...	II
574	$b^3F-w^3H^o$ (260)	2-1	0	3142.796	3141.886	1.0	31818.80 ^D	-10	2.608	6.553	...	II
		4-5	0	3127.744	3126.837	3.9	31971.93 ^D	-40	2.559	6.523	...	II
575	$b^3F-y^3I^o$	4-4	2.51	3112.5840	3111.6814	-1.6	32127.647 ^C	17	2.559	6.542	...	
		4-5	d1	3100.022	3099.122	3.8	32257.84 ^D	-40	2.559	6.558	...	
576	$b^3F-^4F5p^3G^o$	4-5	4	3108.878	3107.976	-5.8	32165.95 ^D	60	2.559	6.547	...	
		4-4	2.00	2996.1233	2995.2499	0.4	33376.463 ^D	-4	2.559	6.697	...	
		3-3	2.23	2986.5991	2985.7281	1.7	33482.900 ^D	-19	2.588	6.739	...	
577	$b^3F-v^3P^o$	3-2	d0?	3120.923	3120.019	1.0	32041.80 ^D	-10	2.588	6.561	...	II
		2-1	3	3106.457	3105.556	-4.8	32191.01 ^D	50	2.608	6.599	...	II
578	$b^3F-Gsp3^3F^o$ (261*)	3-4	2	3117.297	3116.394	6.8	32079.07 ^D	-70	2.588	6.565	...	
		4-4	3.01	3094.7758	3093.8777	-0.3	32312.518 ^B	3	2.559	6.565	...	
		2-3	1	3094.208	3093.310	6.7	32318.45 ^D	-70	2.608	6.615	...	II
		3-3	2.67	3078.5300	3077.6359	-0.7	32483.036 ^D	7	2.588	6.615	...	II
		2-2	2.43	3057.1305	3056.2418	0.2	32710.413 ^D	-2	2.608	6.664	...	
		4-3	2.20	3056.5703	3055.6817	-0.7	32716.408 ^D	7	2.559	6.615	...	
		3-2	5	3041.841	3040.956	8.3	32874.83 ^D	-90	2.588	6.664	...	I
579	$b^3F-^4F5p^5G^o$	3-4	0	3032.354	3031.472	-4.6	32977.68 ^D	50	2.588	6.677	...	
		4-4	2	3011.045	3010.168	-4.5	33211.06 ^D	50	2.559	6.677	...	II
		3-3	0	3006.602	3005.726	2.7	33260.14 ^D	-30	2.588	6.712	...	
580	$b^3F-^4F5p^5F^o$	3-4	0	3075.587	3074.694	2.8	32514.12 ^D	-30	2.588	6.619	...	II
		3-3	d0?	3050.031	3049.144	3.7	32786.55 ^D	-40	2.588	6.653	...	
		4-3	0?	3028.470	3027.589	0.0	33019.97 ^D	0	2.559	6.653	...	
581	$b^3F-^4F5p^3F^o$	3-4	0	3081.251	3080.356	0.0	32454.35 ^D	0	2.588	6.612	...	
		4-4	1	3059.252	3058.363	0.0	32687.73 ^D	0	2.559	6.612	...	II
		3-3	d1	2992.700	2991.828	-8.1	33414.64 ^D	90	2.588	6.731	...	II
		4-3	d0?	2971.960	2971.092	7.9	33647.83 ^D	-90	2.559	6.731	...	
		2-2	11	2970.226	2969.359	-6.2	33667.47 ^D	70	2.608	6.782	...	I
		3-2	1	2955.792	2954.929	1.7	33831.88 ^D	-20	2.588	6.782	...	
582	$b^3F-^4F5p^5D^o$	3-4	d0?	3054.744	3053.856	-3.7	32735.97 ^D	40	2.588	6.647	...	
		3-3	0	3038.569	3037.685	2.8	32910.23 ^D	-30	2.588	6.668	...	
		2-2	3	2985.823	2984.952	5.3	33491.60 ^D	-60	2.608	6.761	...	II
		2-1	d0?	2979.371	2978.502	1.8	33564.13 ^D	-20	2.608	6.770	...	
		3-2	d2	2971.227	2970.360	2.6	33656.13 ^D	-30	2.588	6.761	...	I
583	$b^3F-Dsp3^5F^o$	2-1	0	3062.052	3061.162	2.8	32657.84 ^D	-30	2.608	6.657	...	
		2-3	0	3058.607	3057.718	-1.5	32694.62 ^D	16	2.608	6.662	...	
		4-5	d0?	2996.467	2995.594	0.0	33372.63 ^D	0	2.559	6.697	...	
584	$b^3F-x^1F^o$ (263)	4-3	0	3019.127	3018.248	0.0	33122.16 ^D	0	2.559	6.666	...	
585	$b^3F-^4F5p^3D^o$	2-3	d0	3048.887	3048.001	0.9	32798.85 ^D	-10	2.608	6.675	...	
		4-3	11	3012.351	3011.474	6.4	33196.66 ^D	-70	2.559	6.675	...	I
		2-2	0?	3002.662	3001.787	0.0	33303.78 ^D	0	2.608	6.737	...	
		3-2	0	2987.904	2987.032	0.9	33468.28 ^D	-10	2.588	6.737	...	
		2-1	1	2961.364	2960.499	3.5	33768.22 ^D	-40	2.608	6.795	...	II
586	$b^3F-Dsp3^5D^o$	2-2	d0?	3041.914	3041.029	-0.9	32874.04 ^D	10	2.608	6.684	...	
		4-3	I	3007.484	3006.608	2.7	33250.38 ^D	-30	2.559	6.681	...	
587	$b^3F-t^3G^o$	4-5	d0?	2999.200	2998.326	-3.6	33342.22 ^D	40	2.559	6.693	...	
		4-4	0	2976.516	2975.648	-0.9	33596.32 ^D	10	2.559	6.724	...	
		3-3	2	2965.081	2964.215	-1.8	33725.89 ^D	20	2.588	6.769	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
588	$b^3F-w^1G^\circ$	4-4	0	2926.567	2925.711	0.9	34169.73 ^D	-10	2.559	6.795	...	
589	$b^3F-s^3G^\circ$ (UV159)	2-3	2.00	2877.5567	2876.7127	0.2	34751.704 ^C	-2	2.608	6.917	...	
		4-5	2.20	2874.4977	2873.6543	1.6	34788.687 ^C	-19	2.559	6.872	...	
		3-4	2.32	2854.6102	2853.7717	-0.2	35031.053 ^C	2	2.588	6.931	-1.19 ^a	
		4-3	2	2844.977	2844.141	-6.5	35149.67 ^D	80	2.559	6.917	...	
590	$b^3F-v^3H^\circ$ (UV158)	3-4	2.04	2892.5562	2891.7084	2.1	34571.498 ^C	-25	2.588	6.874	...	
591	$b^3F-w^1D^\circ$	2-2	1	2880.580	2879.735	0.8	34715.23 ^D	-10	2.608	6.912	...	
		3-2	d0?	2866.995	2866.153	0.8	34879.73 ^D	-10	2.588	6.912	...	
592	$b^3F-^2H4p^1H^\circ$	4-5	2.35	2835.5863	2834.7526	-0.8	35266.075 ^C	10	2.559	6.931	-1.14 ^a	
593	$b^3F-Gsp3^1F^\circ$	2-3	1.90	2852.3479	2851.5100	0.7	35058.837 ^D	-8	2.608	6.955	...	
594	$b^3F-s^6D6p^7D^\circ$	2-2	3	2785.954	2785.132	3.1	35894.35 ^D	-40	2.608	7.059	...	
595	$b^3F-s^6D6p^7F^\circ$	2-3	2.49	2778.7084	2777.8885	2.1	35987.943 ^D	-27	2.608	7.070	...	II
		2-2	2.54	2769.9705	2769.1528	-2.5	36101.467 ^D	33	2.608	7.084	...	II
		2-1	2.03	2767.3687	2766.5516	2.4	36135.409 ^D	-31	2.608	7.088	...	I
596	$b^3F-u^3H^\circ$	3-4	d0?	2813.041	2812.213	5.5	35548.72 ^D	-70	2.588	6.995	...	
		4-5	1	2797.866	2797.041	0.8	35741.53 ^D	-10	2.559	6.990	...	II
597	$b^3F-s^6D6p^7P^\circ$	2-3	d0?	2789.451	2788.628	6.2	35849.35 ^D	-80	2.608	7.053	...	
		4-3	1	2758.828	2758.013	2.3	36247.28 ^D	-30	2.559	7.053	...	
598	$b^3F-u^3F^\circ$ (UV160)	2-2	1	2791.769	2790.946	6.2	35819.58 ^D	-80	2.608	7.049	...	
		3-3	1.92	2784.8300	2784.0086	0.1	35908.835 ^C	-1	2.588	7.040	...	
		4-4	2.42	2781.5178	2780.6973	-0.4	35951.594 ^B	5	2.559	7.016	-1.03 ^a	
		4-3	0	2766.843	2766.026	-4.6	36142.27 ^D	60	2.559	7.040	...	
599	$b^3F-s^6D6p^5F^\circ$	3-3	1	2742.027	2741.216	-1.5	36469.37 ^D	20	2.588	7.109	...	
		2-2	1	2737.207	2736.397	-4.5	36533.59 ^D	60	2.608	7.138	...	
		4-3	1.62	2724.5933	2723.7865	-0.8	36702.726 ^C	11	2.559	7.109	...	
600	$b^3F-s^6D6p^5D^\circ$	2-2	2?	2749.009	2748.197	1.5	36376.74 ^D	-20	2.608	7.118	...	II
601	$b^3F-v^1G^\circ$	4-4	0*	2754.054	2753.240	5.3	36310.11 ^D	-70	2.559	7.061	...	
602	$b^3F-x^3I^\circ$	4-5	2.31	2742.4955	2741.6844	-2.9	36463.141 ^B	38	2.559	7.080	...	
603	$b^3F-s^6D_{3,5}4f$ [2.5] ^o $b^3F-s^6D_{3,5}4f$ [0.5] ^o $b^3F-s^6D_{3,5}4f$ [4.5] ^o $b^3F-s^6D_{3,5}4f$ [3.5] ^o $b^3F-s^6D_{3,5}4f$ [4.5] ^o $b^3F-s^6D_{3,5}4f$ [3.5] ^o $b^3F-s^6D_{3,5}4f$ [3.5] ^o	2-3	2.24	2769.2490	2768.4315	-1.4	36110.873 ^D	18	2.608	7.085	...	I
		2-1	2.10	2768.8559	2768.0384	0.5	36116.000 ^C	-6	2.608	7.086	...	
		3-4	3	2756.901	2756.087	5.3	36272.61 ^D	-70	2.588	7.085	...	
		3-3	d0?	2756.704	2755.890	0.8	36275.20 ^D	-10	2.588	7.085	...	
		4-4	8	2739.265	2738.455	-6.0	36506.14 ^D	80	2.559	7.085	...	
		4-4	2.51	2739.1264	2738.3162	0.8	36507.990 ^D	-10	2.559	7.085	...	
		4-3	1	2739.088	2738.278	6.0	36508.50 ^D	-80	2.559	7.085	...	I
604	$b^3F-Dsp1^3D^\circ$	2-2	2.52	2775.0122	2774.1933	3.7	36035.877 ^B	-48	2.608	7.076	...	
		3-3	1.72	2741.8572	2741.0463	2.6	36471.629 ^C	-34	2.588	7.110	...	
605	$b^3F-t^3F^\circ$ (UV161)	2-3	1.67	2732.0899	2731.2814	-0.4	36602.016 ^D	5	2.608	7.146	-1.27 ^a	II
		2-2	3.12	2727.0401	2726.2328	-3.2	36669.794 ^D	43	2.608	7.155	...	II
		3-4	1.62	2726.6133	2725.8060	-0.7	36675.535 ^C	10	2.588	7.135	-1.62 ^a	
		3-2	2.12	2714.8645	2714.0601	0.4	36834.251 ^B	-5	2.588	7.155	...	
		4-4	2.86	2709.3739	2708.5708	0.0	36908.896 ^A	0	2.559	7.135	-0.19 ^a	
606	$b^3F-Psp1^3D^\circ$	4-3	1.78	2702.7119	2701.9104	0.9	36999.874 ^B	-13	2.559	7.146	-1.09 ^a	
		3-3	1.97	2725.4763	2724.6694	-1.0	36690.834 ^B	14	2.588	7.137	...	
607	$b^3F-s^6D_{1,5}4f$ [1.5] ^o $b^3F-s^6D_{1,5}4f$ [2.5] ^o $b^3F-s^6D_{1,5}4f$ [2.5] ^o $b^3F-s^6D_{1,5}4f$ [4.5] ^o $b^3F-s^6D_{1,5}4f$ [2.5] ^o $b^3F-s^6D_{1,5}4f$ [3.5] ^o	4-3	1.89	2708.2513	2707.4484	-0.3	36924.196 ^B	4	2.559	7.137	...	
		2-2	2.29	2733.7489	2732.9399	0.8	36579.805 ^D	-11	2.608	7.144	...	II
		2-3	?	2732.827	2732.018	-3.0	36592.15 ^D	40	2.608	7.145	...	II
		3-2	2.29	2720.4861	2719.6803	2.3	36758.137 ^D	-31	2.588	7.145	...	II
		4-4	0?	2704.106	2703.304	0.7	36980.80 ^D	-10	2.559	7.144	...	
		4-3	0?	2703.439	2702.638	4.4	36989.92 ^D	-60	2.559	7.145	...	
		4-3	2.38	2702.6102	2701.8088	0.3	37001.266 ^D	-4	2.559	7.147	...	

TABLE 2—*Continued*

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
608	$b^3F-s^4D5p^5D^o$	2-3	1	2703.102	2702.300	-1.5	36994.54 ^D	20	2.608	7.195	...	II
		4-3	1	2674.342	2673.548	1.4	37392.37 ^D	-20	2.559	7.195	...	
		2-1	5	2668.011	2667.218	-5.7	37481.10 ^D	80	2.608	7.255	...	
		3-2	5	2669.803	2669.009	9.5	37455.95 ^D	-133	2.588	7.232	...	
609	$b^3F-s^4D5p^3F^o$	3-4	0	2699.585	2698.784	2.2	37042.73 ^D	-30	2.588	7.181	...	I
		4-4	1	2682.683	2681.887	2.2	37276.11 ^D	-30	2.559	7.181	...	
		2-2	0	2636.922	2636.136	0.0	37923.00 ^D	0	2.608	7.310	...	
		3-2	1.73	2625.5306	2624.7476	-1.9	38087.539 ^D	28	2.588	7.310	...	
		3-3	1	2616.765	2615.984	0.7	38215.13 ^D	-10	2.588	7.326	...	
		4-3	7	2600.875	2600.098	-5.4	38448.60 ^D	80	2.559	7.326	...	
610	$b^3F-s^4D5p^3P^o$	2-2	0	2705.595	2704.793	2.2	36960.44 ^D	-30	2.608	7.191	...	
		3-2	0	2693.609	2692.810	4.4	37124.91 ^D	-60	2.588	7.191	...	
611	$b^3F-Hsp1^3G^o$	4-5	1	2675.412	2674.617	1.4	37377.42 ^D	-20	2.559	7.193	...	II
		3-4	1.54	2669.5022	2668.7087	-2.9	37460.168 ^C	41	2.588	7.232	...	
		2-3	0	2662.313	2661.521	2.1	37561.32 ^D	-30	2.608	7.265	...	
		4-4	d0?	2652.977	2652.188	0.0	37693.50 ^D	0	2.559	7.232	...	
		3-3	2.64	2650.7011	2649.9121	-0.7	37725.868 ^C	10	2.588	7.265	...	
		4-3	1.61	2634.4037	2633.6186	-1.6	37959.254 ^D	23	2.559	7.265	...	
612	$b^3F-s^4D5p^3D^o$	2-1	1	2676.957	2676.162	1.4	37355.85 ^D	-20	2.608	7.240	...	
		4-3	1	2657.091	2656.300	0.0	37635.15 ^D	0	2.559	7.225	...	
613	$b^3F-^4F_{3,5}4f [4.5]^o$	3-4	d0?	2604.998	2604.220	4.1	38387.75 ^D	-60	2.588	7.347	...	I
		3-3	2	2604.385	2603.607	3.4	38396.78 ^D	-50	2.588	7.348	...	
		4-4	d0?	2589.255	2588.480	2.0	38621.15 ^D	-30	2.559	7.347	...	
		4-5	3	2589.078	2588.304	-0.7	38623.79 ^D	10	2.559	7.348	...	
		4-3	d0	2588.651	2587.877	2.7	38630.16 ^D	-40	2.559	7.348	...	
614	$b^3F-Psp1^3S^o$	2-1	d2	2599.994	2599.217	0.0	38461.63 ^D	0	2.608	7.377	...	
615	$b^3F-^4F_{1,5}4f [2.5]^o$	2-2	3	2570.115	2569.345	0.0	38908.77 ^D	0	2.608	7.432	...	G
		2-3	d0?	2569.799	2569.029	0.0	38913.55 ^D	0	2.608	7.433	...	
		3-4	0	2559.347	2558.579	3.9	39072.47 ^D	-60	2.588	7.432	...	
		3-2	1	2559.290	2558.522	-3.3	39073.34 ^D	50	2.588	7.432	...	
		4-4	12*	2544.141	2543.378	-5.2	39305.99 ^D	80	2.559	7.432	...	
616	$b^3F-Fsp1^3F^o$	3-4	2	2549.649	2548.884	1.3	39221.09 ^D	-20	2.588	7.451	...	I
		3-3	2.50	2544.6600	2543.8961	-0.2	39297.981 ^A	3	2.588	7.460	...	
		4-4	2.28	2534.5656	2533.8042	-0.4	39454.492 ^A	6	2.559	7.451	...	
		4-3	1.92	2529.6383	2528.8779	0.4	39531.344 ^B	-7	2.559	7.460	...	
617	$b^3F-Fsp1^3G^o$	2-3	2.96	2530.0682	2529.3077	-0.2	39524.627 ^A	3	2.608	7.509	0.51 ^a	
		3-4	2.82	2525.7832	2525.0238	-0.1	39591.680 ^A	2	2.588	7.497	...	
		4-5	2.94	2524.4203	2523.6612	0.1	39613.055 ^A	-2	2.559	7.470	...	
		3-3	1.81	2519.5816	2518.8236	-0.1	39689.130 ^B	1	2.588	7.509	...	
		4-3	3	2504.856	2504.102	3.1	39922.45 ^D	-50	2.559	7.509	...	
618	$b^3F-t^3H^o$ (UV163)	3-4	2.08	2507.3275	2506.5723	0.4	39883.103 ^B	-7	2.588	7.533	-0.76 ^a	
		4-5	1.53	2505.7626	2505.0079	-0.4	39908.010 ^B	7	2.559	7.507	-0.58 ^a	
619	$b^3F-Fsp1^3D^o$	2-3	1.90	2514.6049	2513.8481	0.1	39767.679 ^C	-1	2.608	7.539	...	
		3-3	1.72	2504.2461	2503.4917	0.4	39932.178 ^B	-6	2.588	7.539	...	
		4-3	2.05	2489.6955	2488.9444	0.1	40165.555 ^A	-2	2.559	7.539	...	
620	$a^3G-z^3F^o$ (264)	5-4	2.54	10425.887	10423.030	2	9591.510 ^A	-2	2.692	3.881	...	
		4-3	2.54	10197.902	10195.108	2	9805.938 ^A	-2	2.727	3.943	...	
		3-2	2.38	10116.789	10114.016	2	9884.559 ^A	-2	2.758	3.984	...	
621	$a^3G-y^5F^o$ (265)	5-4	1.56	8114.3941	8112.1635	2.6	12323.779 ^A	-4	2.692	4.220	...	
		4-3	1.23	8110.5507	8108.3212	1.3	12329.619 ^A	-2	2.727	4.256	...	
622	$a^3G-z^5G^o$ (266)	5-5	1.85	7653.0511	7650.9450	2.3	13066.684 ^A	-4	2.692	4.312	...	
		5-6	1.23	7617.1795	7615.0831	2.3	13128.219 ^B	-4	2.692	4.320	...	
		4-4	1.18	7542.5065	7540.4303	0.0	13258.192 ^B	0	2.727	4.371	-3.85 ^b	
		3-3	0.78	7483.8021	7481.7417	1.1	13362.192 ^C	-2	2.758	4.415	-4.10 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
623	$a^3G-y^3F^o$ (268)	4-4	3.49	6808.7234	6806.8449	1.4	14687.041 ^A	-3	2.727	4.548	-3.21 ^b	
		3-3	3.94	6705.4182	6703.5674	0.9	14913.313 ^A	-2	2.758	4.607	-3.16 ^b	
		5-4	5.38	6679.8308	6677.9870	1.8	14970.439 ^A	-4	2.692	4.548	-1.42 ^a	
		4-3	5.19	6594.7348	6592.9138	1.3	15163.612 ^A	-3	2.727	4.607	-1.47 ^a	
		3-2	5.35	6548.0479	6546.2395	1.3	15271.727 ^A	-3	2.758	4.652	-1.54 ^a	
624	$a^3G-y^3D^o$ (269)	4-3	2.29	6181.9143	6180.2042	1.1	16176.219 ^A	-3	2.727	4.733	-2.65 ^a	
		3-2	1.90	6086.9437	6085.2590	0.7	16428.606 ^A	-2	2.758	4.795	-2.71 ^a	
625	$a^3G-x^3D^o$ (272)	3-2	2.23	4341.7101	4340.4899	0.6	23032.399 ^D	-3	2.758	5.614	...	
		4-3	2.08	4306.3423	4305.1314	-2.6	23221.563 ^C	14	2.727	5.606	...	
626	$a^3G-y^3G^o$ (273)	3-3	3.54	4289.3523	4288.1458	0.0	23313.543 ^A	0	2.758	5.649	-2.06 ^a	
		4-4	3.79	4268.1654	4266.9645	0.0	23429.270 ^A	0	2.727	5.632	-1.81 ^a	
		4-3	2.73	4243.7905	4242.5960	0.2	23563.840 ^B	-1	2.727	5.649	-2.65 ^a	
		5-5	3.93	4241.0415	4239.8477	-0.4	23579.114 ^A	2	2.692	5.616	-1.64 ^a	
		5-4	2.81	4217.1553	4215.9678	0.2	23712.667 ^B	-1	2.692	5.632	...	
627	$a^3G-x^5G^o$ (274)	4-4	1.95	4195.6750	4194.4931	4.2	23834.067 ^D	-24	2.727	5.682	-3.36 ^b	
		4-3	2.27	4181.5885	4180.4103	1.4	23914.357 ^C	-8	2.727	5.692	-2.91 ^b	
		5-5	2.56	4164.8501	4163.6763	-12.5	24010.468 ^C	72	2.692	5.669	...	
		5-4	2.38	4146.3685	4145.1995	-0.2	24117.490 ^C	1	2.692	5.682	-2.80 ^b	
628	$a^3G-u^5D^o$ (276)	3-4	2.56	4086.4016	4085.2483	0.5	24471.408 ^B	-3	2.758	5.792	...	
		4-4	...	4045.028	4043.885	...	24721.710 ^D	...	2.727	5.792	...	M I
		4-3	2.34	4041.0793	4039.9379	-0.5	24745.864 ^D	3	2.727	5.795	...	
		5-4	4.24	3999.1832	3998.0527	0.3	25005.106 ^A	-2	2.692	5.792	-0.91 ^a	
629	$a^3G-x^3F^o$ (277)	3-4	3.02	4058.4895	4057.3435	0.3	24639.709 ^A	-2	2.758	5.813	-1.96 ^a	
		3-3	2.89	4025.2335	4024.0963	0.2	24843.279 ^B	-1	2.758	5.839	-2.74 ^a	
		3-2	3.82	4008.4050	4007.2721	-0.2	24947.579 ^A	1	2.758	5.851	-1.28 ^a	
		4-3	4.26	3985.0832	3983.9564	0.2	25093.579 ^A	-1	2.727	5.839	-1.02 ^a	
		5-4	4.13	3972.4462	3971.3227	0.3	25173.406 ^A	-2	2.692	5.813	-0.97 ^a	
630	$a^3G-z^3H^o$ (278)	3-4	4.57	4023.0032	4021.8665	0.0	24857.052 ^D	0	2.758	5.840	-0.73 ^a	II
		4-5	4.88	3998.5225	3997.3922	0.2	25009.238 ^A	-1	2.727	5.828	-0.48 ^a	
		4-4	4.24	3982.8973	3981.7711	0.2	25107.351 ^A	-1	2.727	5.840	-1.12 ^a	
		5-6	5.00	3957.7964	3956.6768	0.2	25266.585 ^D	-1	2.692	5.825	-0.43 ^a	II
		5-5	4.26	3953.7201	3952.6015	0.3	25292.635 ^D	-2	2.692	5.828	-1.12 ^a	II
631	$a^3G-w^3D^o$ (279)	5-4	3.89	3938.4425	3937.3279	0.2	25390.748 ^A	-1	2.692	5.840	-1.46 ^a	
		3-3	2.34	4037.5070	4036.3665	-0.5	24767.759 ^D	3	2.758	5.829	-2.84 ^b	
		3-2	2.83	4018.2189	4017.0835	0.6	24886.648 ^B	-4	2.758	5.844	-1.99 ^a	
		4-3	3.56	3997.1134	3995.9835	0.2	25018.054 ^A	-1	2.727	5.829	-1.57 ^a	
632	$a^3G-w^5G^o$ (280)	3-4	3.74	3946.2338	3945.1172	-0.2	25340.617 ^A	1	2.758	5.900	-1.46 ^a	
		4-5	3.93	3933.7407	3932.6273	-0.2	25421.096 ^A	1	2.727	5.879	-1.16 ^a	
		3-3	3.36	3930.2288	3929.1164	-0.6	25443.811 ^A	4	2.758	5.913	-1.88 ^a	
		3-2	4.09	3909.0410	3907.9341	-0.2	25581.722 ^A	1	2.758	5.930	-1.12 ^a	
		4-4	2.58	3907.6389	3906.5323	2.1	25590.901 ^C	-14	2.727	5.900	...	
		5-6	4.66	3898.9942	3897.8899	0.2	25647.640 ^A	-1	2.692	5.872	-0.74 ^a	
		4-3	3.90	3891.9430	3890.8405	-0.2	25694.107 ^A	1	2.727	5.913	-1.31 ^a	
633	$a^3G-z^1G^o$ (282)	5-4	3.76	3864.8368	3863.7413	0.0	25874.314 ^A	0	2.692	5.900	-1.43 ^a	
634	$a^3G-v^5F^o$ (283)	3-4	4.24	3885.4595	3884.3587	0.0	25736.982 ^A	0	2.692	5.883	-1.09 ^a	
		3-4	3.18	3893.9953	3892.8923	0.0	25680.565 ^C	0	2.758	5.942	...	
		5-5	3.67	3862.4350	3861.3402	-3.6	25890.403 ^A	24	2.692	5.902	...	
		4-4	2.86	3856.4070	3855.3138	-1.3	25930.873 ^C	9	2.727	5.942	...	
		4-3	3.25	3827.9273	3826.8415	-0.3	26123.798 ^B	2	2.727	5.966	-1.45 ^a	
635	$a^3G-x^3G^o$ (284)	5-4	3.53	3814.7173	3813.6349	0.0	26214.262 ^A	0	2.692	5.942	-1.39 ^a	
		3-4	3.71	3911.9514	3910.8437	-0.5	25562.690 ^A	3	2.758	5.928	-1.55 ^a	
		3-3	3.49	3908.5721	3907.4653	-0.2	25584.791 ^A	1	2.758	5.930	-1.88 ^a	
		4-4	3.51	3874.0191	3872.9212	0.0	25812.986 ^A	0	2.727	5.928	-1.75 ^a	
		4-3	3.63	3870.7050	3869.6080	0.1	25835.087 ^A	-1	2.727	5.930	-1.81 ^a	
		4-5	3.91	3870.6552	3869.5583	-0.3	25835.419 ^A	2	2.727	5.931	-1.41 ^a	
635	$a^3G-x^3G^o$ (284)	5-4	3.64	3831.9488	3830.8619	0.1	26096.382 ^A	-1	2.692	5.928	-1.67 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
636	$a^3G-y^5H^o$	5-5	3.88	3828.6576	3827.5716	0.0	26118.815 ^A	0	2.692	5.931	-1.42 ^a	
		3-4	3.26	3829.5903	3828.5040	-0.4	26112.454 ^B	3	2.758	5.996	-2.20 ^a	
		5-6	3.99	3825.6408	3824.5555	-0.4	26139.412 ^A	3	2.692	5.933	...	
		3-3	4.04	3812.9729	3811.8910	-0.1	26226.255 ^A	1	2.758	6.010	-1.42 ^a	
		4-5	3.23	3812.1168	3811.0350	0.4	26232.145 ^B	-3	2.727	5.980	-2.31 ^a	
		4-4	4.05	3793.2313	3792.1544	0.1	26362.748 ^A	-1	2.727	5.996	-1.43 ^a	
		4-3	3.06	3776.9267	3775.8541	0.0	26476.553 ^B	0	2.727	6.010	-2.30 ^a	
		5-5	4.05	3771.3726	3770.3015	0.1	26515.545 ^A	-1	2.692	5.980	-1.51 ^a	
637	$a^3G-x^3P^o$	5-4	3.44	3752.8878	3751.8214	0.1	26646.147 ^A	-1	2.692	5.996	-2.04 ^a	
		3-2	2.60	3838.0038	3836.9154	0.0	26055.211 ^C	0	2.758	5.989	...	
638	$a^3G-z^1H^o$ (289)	4-5	3.87	3790.2521	3789.1761	0.3	26383.469 ^A	-2	2.727	5.998	-1.29 ^a	
		5-5	3.11	3749.9697	3748.9041	-2.0	26666.882 ^B	14	2.692	5.998	...	
639	$a^3G-y^1G^o$ (290)	3-4	2.64	3780.2761	3779.2027	1.4	26453.094 ^C	-10	2.758	6.038	...	
		4-4	3.12	3744.8408	3743.7765	-0.4	26703.405 ^B	3	2.727	6.038	-2.17 ^a	
		5-4	4.54	3705.5153	3704.4612	0.1	26986.800 ^A	-1	2.692	6.038	-0.58 ^a	
640	$a^3G-w^3F^o$ (291)	3-4	3.14	3723.0828	3722.0241	0.4	26859.462 ^B	-3	2.758	6.089	-1.90 ^a	
		3-3	3.89	3704.6017	3703.5479	0.0	26993.455 ^A	0	2.758	6.105	-1.26 ^a	
		4-4	4.21	3688.7077	3687.6580	-0.1	27109.765 ^A	1	2.727	6.089	-0.87 ^a	
		3-2	4.76	3678.6748	3677.6277	-0.3	27183.702 ^A	2	2.758	6.129	-0.21 ^a	
		4-3	4.63	3670.5662	3669.5212	0.1	27243.753 ^A	-1	2.727	6.105	-0.48 ^a	
		5-4	4.93	3650.5462	3649.5063	0.1	27393.161 ^A	-1	2.692	6.089	-0.15 ^a	
641	$a^3G-v^3D^o$ (292)	3-3	3.93	3719.4642	3718.4065	-0.3	26885.593 ^A	2	2.758	6.092	-1.12 ^a	
		3-2	3.51	3704.6381	3703.5842	0.0	26993.190 ^A	0	2.758	6.105	...	
		4-3	4.66	3685.1564	3684.1076	0.0	27135.890 ^A	0	2.727	6.092	-0.37 ^a	
642	$a^3G-y^3H^o$ (294)	3-4	4.53	3639.3335	3638.2965	-0.1	27477.559 ^A	1	2.758	6.165	-0.38 ^a	
		4-5	4.93	3622.4933	3621.4607	-0.3	27605.296 ^A	2	2.727	6.150	-0.02 ^a	
		5-6	5.28	3607.7082	3606.6794	0.1	27718.428 ^A	-1	2.692	6.129	0.32 ^a	
		4-4	4.83	3606.4813	3605.4528	0.0	27727.858 ^A	0	2.727	6.165	-0.09 ^a	
		5-5	4.79	3585.6826	3584.6594	-0.1	27888.693 ^A	1	2.692	6.150	-0.16 ^a	
643	$a^3G-v^3G^o$ (295)	5-4	3.83	3569.9936	3568.9745	0.0	28011.255 ^A	0	2.692	6.165	-1.10 ^a	
		3-4	4.94	3652.5073	3651.4669	0.0	27378.453 ^A	0	2.758	6.153	0.02 ^a	
		4-5	4.83	3641.4260	3640.3885	0.1	27461.769 ^A	-1	2.727	6.132	-0.11 ^a	
		3-3	4.73	3623.0361	3622.0034	-0.1	27601.160 ^A	1	2.758	6.180	-0.15 ^a	
		4-4	4.10	3619.4177	3618.3858	-0.3	27628.754 ^A	2	2.727	6.153	-0.80 ^a	
		5-5	4.69	3604.2315	3603.2035	0.3	27745.166 ^A	-2	2.692	6.132	-0.26 ^a	
		4-3	4.05	3590.4763	3589.4519	0.0	27851.458 ^A	0	2.727	6.180	-0.85 ^a	
644	$a^3G-Fsp3^1F^o$	5-4	3.64	3582.6691	3581.6467	-0.1	27912.151 ^A	1	2.692	6.153	-1.26 ^a	
		3-3	2.89	3672.7334	3671.6878	2.6	27227.677 ^B	-19	2.758	6.134	-2.04 ^a	
645	$a^3G-z^1F^o$ (296)	4-3	3.00	3639.2756	3638.2386	-0.1	27477.996 ^B	1	2.727	6.134	-2.17 ^a	
		3-3	2.79	3528.8983	3527.8898	-1.2	28337.456 ^C	10	2.758	6.272	...	
646	$a^3G-x^1G^o$ (297)	4-3	2.75	3498.0036	3497.0030	1.2	28587.735 ^D	-10	2.727	6.272	...	
		3-4	2.90	3525.5265	3524.5188	-0.7	28364.558 ^C	6	2.758	6.275	...	
		4-4	3.30	3494.6889	3493.6892	0.0	28614.850 ^D	0	2.727	6.275	-1.85 ^a	I
647	$a^3G-x^3H^o$ (299)	5-4	3.38	3460.4174	3459.4265	0.0	28898.248 ^B	0	2.692	6.275	-1.63 ^a	
		4-5	3.45	3440.0215	3439.0358	-0.1	29069.586 ^B	1	2.727	6.331	...	
		5-6	3.19	3412.1043	3411.1257	-0.1	29307.428 ^B	1	2.692	6.326	...	
		5-5	3.47	3406.8087	3405.8315	-0.1	29352.984 ^A	1	2.692	6.331	...	
		4-4	3.11	3400.2038	3399.2283	-1.3	29410.002 ^C	11	2.727	6.374	...	
648	$a^3G-v^3F^o$ (301)	5-4	3.75	3367.7527	3366.7854	-0.2	29693.392 ^A	2	2.692	6.374	...	
		3-2	3.78	3454.0096	3453.0204	-0.2	28951.859 ^A	2	2.758	6.348	...	
		3-3	3.40	3434.5522	3433.5679	0.4	29115.877 ^B	-3	2.758	6.368	...	
		4-4	3.87	3412.3318	3411.3532	-0.3	29305.474 ^A	3	2.727	6.361	-1.06 ^b	
		4-3	3.85	3405.2777	3404.3008	-0.2	29366.181 ^A	2	2.727	6.368	...	
648	$a^3G-v^3F^o$ (301)	5-4	3.97	3379.6492	3378.6789	-0.1	29588.870 ^A	1	2.692	6.361	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac} (Å)	λ_{air} (Å)	o-R ⁴ (mÅ)	σ ⁵ (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
649	$a^3G-u^3G^o$ (304)	3-4	2.74	3399.1922	3398.2170	0.0	29418.754 ^C	0	2.758	6.406	...	
		3-3	4.17	3381.0806	3380.1100	-0.1	29576.343 ^A	1	2.758	6.425	-0.70 ^a	
		5-5	4.54	3371.7516	3370.7834	0.1	29658.175 ^A	-1	2.692	6.369	-0.27 ^a	
		4-4	4.27	3370.5153	3369.5474	-0.1	29669.054 ^A	1	2.727	6.406	-0.48 ^a	
		4-3	3.31	3352.7074	3351.7440	-0.1	29826.641 ^B	1	2.727	6.425	-1.59 ^a	
		5-4	3.68	3338.6249	3337.6651	0.0	29952.451 ^A	0	2.692	6.406	-1.04 ^a	
650	$a^3G-Hsp^3^1H^o$ (303)	4-5	2.67	3374.8402	3373.8711	1.4	29631.033 ^D	-12	2.727	6.401	-2.28 ^a	II
		5-5	3.62	3342.8669	3341.9060	0.0	29914.443 ^A	0	2.692	6.401	-1.25 ^a	
651	$a^3G-x^1D^o$ (306)	3-2	3.57	3388.3780	3387.4055	-0.1	29512.646 ^A	1	2.758	6.417	...	
652	$a^3G-u^3D^o$ (307)	4-3	2.41	3336.6748	3335.7155	1.2	29969.957 ^C	-11	2.727	6.443	...	
653	$a^3G-w^3H^o$ (308)	4-5	2.38	3266.4847	3265.5433	0.7	30613.950 ^C	-7	2.727	6.523	...	
		5-6	2.66	3255.6620	3254.7233	-0.8	30715.719 ^C	8	2.692	6.500	-1.93 ^a	
		5-5	2.51	3236.5224	3235.5885	-0.6	30897.361 ^C	6	2.692	6.523	...	
		5-4	d0	3220.298	3219.368	-2.1	31053.03 ^D	20	2.692	6.542	...	
654	$a^3G-y^3I^o$ (309)	4-5	1	3236.257	3235.324	-2.1	30899.89 ^D	20	2.727	6.558	...	II
655	$a^3G-^4F5p^3G^o$	5-5	2.82	3216.3375	3215.4087	0.0	31091.265 ^B	0	2.692	6.547	...	
		3-4	0	3147.807	3146.895	0.0	31768.15 ^D	0	2.758	6.697	...	
		4-4	2.61	3123.2000	3122.2947	0.4	32018.443 ^B	-4	2.727	6.697	...	
		3-3	2.68	3114.4911	3113.5881	-0.2	32107.974 ^B	2	2.758	6.739	...	
		5-4	2.41	3095.7981	3094.8997	-0.3	32301.848 ^D	3	2.692	6.697	...	
		4-3	3	3090.397	3089.500	-1.9	32358.30 ^D	20	2.727	6.739	...	
656	$a^3G-Gsp^3^3F^o$	4-4	0*	3230.545	3229.613	-3.1	30954.53 ^D	30	2.727	6.565	...	
		3-3	0	3214.602	3213.674	3.1	31108.05 ^D	-30	2.758	6.615	...	
		5-4	2.65	3201.2409	3200.3159	0.6	31237.887 ^C	-6	2.692	6.565	...	
		4-3	2.70	3188.9391	3188.0173	-0.9	31358.391 ^C	9	2.727	6.615	...	
		3-2	2.83	3174.6060	3173.6878	0.1	31499.972 ^B	-1	2.758	6.664	...	
657	$a^3G-^4F5p^5G^o$	5-6	d0?	3189.416	3188.494	-7.1	31353.70 ^D	70	2.692	6.580	...	
		3-4	d0?	3164.288	3163.372	0.0	31602.69 ^D	0	2.758	6.677	...	
		4-4	2.49	3139.4238	3138.5145	0.1	31852.979 ^C	-1	2.727	6.677	...	
		5-5	0	3137.670	3136.761	0.0	31870.78 ^D	0	2.692	6.644	...	
		4-3	1	3111.830	3110.928	8.7	32135.43 ^D	-90	2.727	6.712	...	
		5-4	2.78	3111.7384	3110.8360	0.0	32136.378 ^D	0	2.692	6.677	...	II
		4-5	d0?	3165.832	3164.916	11.0	31587.27 ^D	-110	2.727	6.644	...	
658	$a^3G-^4F5p^5F^o$	4-5	2*	3216.914	3215.985	-3.1	31085.69 ^D	30	2.727	6.581	...	I
		5-5	d0	3187.865	3186.943	9.1	31368.96 ^D	-90	2.692	6.581	...	I
		4-3	2.53	3158.3654	3157.4513	-0.3	31661.948 ^C	3	2.727	6.653	...	
		3-2	2	3145.339	3144.428	1.0	31793.08 ^D	-10	2.758	6.700	...	
659	$a^3G-y^1H^o$ (311)	4-5	2.57	3193.4286	3192.5056	-0.2	31314.306 ^C	2	2.727	6.610	...	
		5-5	2.99	3164.7870	3163.8713	-0.1	31597.703 ^B	1	2.692	6.610	...	
660	$a^3G-^4F5p^3F^o$ (310*)	4-4	1	3191.854	3190.932	-4.1	31329.75 ^D	40	2.727	6.612	...	
		5-4	2.87	3163.2453	3162.3300	-0.3	31613.103 ^D	3	2.692	6.612	...	I
		3-3	2.23	3121.1369	3120.2322	-0.6	32039.607 ^D	6	2.758	6.731	...	
		4-3	2	3096.944	3096.045	0.0	32289.90 ^D	0	2.727	6.731	...	
661	$a^3G-^4F5p^5D^o$	3-2	2.70	3081.0032	3080.1085	-0.7	32456.961 ^B	7	2.758	6.782	...	
		3-3	1	3171.049	3170.131	0.0	31535.31 ^D	0	2.758	6.668	...	
		4-4	2	3163.432	3162.516	3.0	31611.24 ^D	-30	2.727	6.647	...	
		4-3	0?	3146.076	3145.165	-1.0	31785.63 ^D	10	2.727	6.668	...	
		5-4	4	3135.320	3134.412	0.0	31894.67 ^D	0	2.692	6.647	...	
662	$a^3G-Dsp^3^5F^o$	3-2	2.28	3097.7753	3096.8764	-1.0	32281.231 ^D	10	2.758	6.761	...	
		4-3	0	3151.153	3150.240	4.0	31734.42 ^D	-40	2.727	6.662	...	
		4-4	2.42	3136.4993	3135.5907	-0.6	31882.679 ^C	6	2.727	6.680	...	
		4-5	2	3123.573	3122.668	0.0	32014.62 ^D	0	2.727	6.697	...	
		5-4	4	3108.878	3107.976	11.6	32165.95 ^D	-120	2.692	6.680	...	I
		5-5	2.96	3096.1654	3095.2670	0.0	32298.016 ^B	0	2.692	6.697	-1.52 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
663	$a^3G-x^1F^o$ (312)	3-3	1	3173.208	3172.290	0.0	31513.85 ^D	0	2.758	6.666	...	II
		4-3	2.58	3148.2028	3147.2913	-0.7	31764.154 ^D	7	2.727	6.666	...	
664	$a^3G-^4F5p^3D^o$	3-3	d0?	3165.727	3164.811	9.0	31588.32 ^D	-90	2.758	6.675
		4-3	7	3140.828	3139.918	-2.0	31838.74 ^D	20	2.727	6.675	...	
		3-2	0	3115.913	3115.010	1.9	32093.32 ^D	-20	2.758	6.737	...	
665	$a^3G-Dsp3^5D^o$	3-3	1	3160.349	3159.435	2.0	31642.07 ^D	-20	2.758	6.681
		3-2	2	3158.203	3157.289	0.0	31663.58 ^D	0	2.758	6.684	...	
		4-3	1	3135.547	3134.639	2.9	31892.36 ^D	-30	2.727	6.681	...	
		3-4	0	3119.943	3119.038	2.9	32051.87 ^D	-30	2.758	6.732	...	
		4-4	2	3095.769	3094.871	4.8	32302.15 ^D	-50	2.727	6.732	...	
		5-4	2.71	3068.8398	3067.9482	0.1	32585.604 ^B	-1	2.692	6.732	...	
666	$a^3G-t^3G^o$ (313)	4-5	10*	3126.553	3125.646	4.9	31984.11 ^D	-50	2.727	6.693	...	I
		3-4	3	3126.175	3125.269	1.0	31987.97 ^D	-10	2.758	6.724	...	
		4-4	2.96	3101.9023	3101.0024	0.0	32238.282 ^B	0	2.727	6.724	-1.14 ^a	...
		5-5	3.50	3099.0885	3098.1893	0.5	32267.552 ^A	-5	2.692	6.693	-0.92 ^a	
		3-3	2.66	3091.1020	3090.2048	-0.5	32350.922 ^C	5	2.758	6.769	-1.62 ^a	
		5-4	2.64	3074.8716	3073.9785	-0.4	32521.683 ^B	4	2.692	6.724	-1.31 ^a	
		4-3	3.00	3067.3702	3066.4789	-0.1	32601.217 ^B	1	2.727	6.769	-1.05 ^a	
667	$a^3G-t^5P^o$	3-3	d2	3149.077	3148.165	-5.0	31755.34 ^D	50	2.758	6.696
		4-3	2	3124.457	3123.552	2.0	32005.56 ^D	-20	2.727	6.696	...	
668	$a^3G-w^1G^o$ (315)	3-4	0	3071.118	3070.226	0.0	32561.43 ^D	0	2.758	6.795
		4-4	1	3047.690	3046.803	-0.9	32811.74 ^D	10	2.727	6.795	...	
669	$a^3G-s^3G^o$ (UV166)	4-5	3.72	2991.2638	2990.3915	-0.1	33430.686 ^A	1	2.727	6.872	-0.24 ^b	...
		3-3	3.28	2981.4022	2980.5324	-0.1	33541.265 ^A	1	2.758	6.917	-0.81 ^a	
		3-4	d2	2971.227	2970.360	-1.8	33656.13 ^D	20	2.758	6.931	...	
		5-5	4.55	2966.1204	2965.2544	1.0	33714.073 ^D	-11	2.692	6.872	...	
		4-3	2.08	2959.3171	2958.4528	-1.6	33791.580 ^D	18	2.727	6.917	...	
		4-4	3.52	2949.2954	2948.4336	-0.1	33906.403 ^A	1	2.727	6.931	-0.41 ^a	
		5-4	1.95	2924.8473	2923.9916	-1.5	34189.819 ^D	18	2.692	6.931	...	
670	$a^3G-v^3H^o$ (316)	3-4	3.83	3012.3585	3011.4810	-0.4	33196.580 ^A	4	2.758	6.874	-0.33 ^a	...
		4-4	2.00	2989.8150	2988.9432	-0.9	33446.885 ^D	10	2.727	6.874	-2.02 ^a	
		4-5	3.43	2982.7210	2981.8509	-0.5	33526.434 ^D	6	2.727	6.884	...	
		5-6	3.93	2960.8569	2959.9922	0.0	33774.007 ^A	0	2.692	6.880	-0.07 ^a	
		5-5	2.51	2957.7201	2956.8562	0.1	33809.825 ^B	-1	2.692	6.884	-1.59 ^a	
671	$a^3G-w^1D^o$	3-2	2.15	2984.6460	2983.7754	-1.0	33504.811 ^D	11	2.758	6.912
672	$a^3G-^2H4p^1H^o$	5-5	3.47	2924.7083	2923.8526	-0.2	34191.444 ^A	2	2.692	6.931	-0.38 ^a	
673	$a^3G-Gsp3^1F^o$	3-3	3.30	2954.3488	2953.4857	-0.3	33848.407 ^A	3	2.758	6.955	-0.48 ^a	
		4-3	2.26	2932.6612	2931.8035	-1.7	34098.722 ^D	20	2.727	6.955	...	
674	$a^3G-u^3H^o$ (UV167)	3-4	3.13	2926.2138	2925.3577	-0.2	34173.853 ^A	2	2.758	6.995	-0.71 ^a	
		4-5	3.16	2908.3691	2907.5174	-0.2	34383.531 ^A	2	2.727	6.990	-0.65 ^a	...
		4-4	2.08	2904.9354	2904.0846	-1.9	34424.173 ^D	23	2.727	6.995	-1.69 ^a	
		5-6	3.06	2888.6519	2887.8051	0.0	34618.224 ^A	0	2.692	6.984	-0.89 ^a	
		5-5	2.36	2884.5931	2883.7472	-0.7	34666.935 ^C	8	2.692	6.990	-1.40 ^a	
		5-4	0	2881.220	2880.375	1.7	34707.52 ^D	-20	2.692	6.995	...	
675	$a^3G-u^3F^o$ (UV168)	3-4	3	2911.780	2910.928	1.7	34343.25 ^D	-20	2.758	7.016	-1.56 ^a	...
		3-3	0?	2895.712	2894.864	5.9	34533.82 ^D	-70	2.758	7.040	...	
		4-4	2	2890.711	2889.864	0.8	34593.56 ^D	-10	2.727	7.016	...	
		5-4	1	2867.222	2866.380	0.0	34876.97 ^D	0	2.692	7.016	...	
676	$a^3G-s^6D6p^5F^o$	3-3	d0?	2849.464	2848.627	5.7	35094.32 ^D	-70	2.758	7.109
		4-3	0	2829.283	2828.451	4.0	35344.64 ^D	-50	2.727	7.109	...	
677	$a^3G-s^6D6p^5D^o$	3-2	1	2843.629	2842.793	0.0	35166.33 ^D	0	2.758	7.118
678	$a^3G-x^3I^o$ (UV169)	5-6	0	2828.502	2827.670	2.4	35354.40 ^D	-30	2.692	7.076
		5-5	d0?	2825.784	2824.953	5.6	35388.41 ^D	-70	2.692	7.080

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
679	$a^3G-s^6D_{3,5}4f$ [4.5] ^o	4-4	d0?	2845.115	2844.279	5.7	35147.96 ^D	-70	2.727	7.085	...	
	$a^3G-s^6D_{3,5}4f$ [4.5] ^o	5-5	2	2822.456	2821.625	-7.2	35430.14 ^D	90	2.692	7.085	...	I
680	$a^3G-Dsp1^3D^o$	4-3	1	2829.098	2828.266	4.8	35346.95 ^D	-60	2.727	7.110	...	
681	$a^3G-s^6D_{2,5}4f$ [3.5] ^o	4-3	d3	2821.645	2820.815	2.4	35440.32 ^D	-30	2.727	7.121	...	
682	$a^3G-t^3F^o$ (UV170)	3-4	d0?	2832.811	2831.978	-4.0	35300.63 ^D	50	2.758	7.135	...	
		3-3	2	2825.537	2824.706	4.8	35391.50 ^D	-60	2.758	7.146	...	
		3-2	2.22	2820.1326	2819.3026	-1.4	35459.326 ^C	18	2.758	7.155	...	
		4-4	1.80	2812.8685	2812.0403	-1.7	35550.898 ^C	21	2.727	7.135	-1.27 ^a	
		4-3	2.10	2805.6881	2804.8617	-0.9	35641.880 ^C	12	2.727	7.146	-0.70 ^a	
		5-4	2.61	2790.6244	2789.8016	0.1	35834.274 ^B	-1	2.692	7.135	-0.61 ^a	
683	$a^3G-Psp1^3D^o$	3-3	1	2831.592	2830.759	4.0	35315.82 ^D	-50	2.758	7.137	...	
		4-3	3	2811.665	2810.837	4.7	35566.11 ^D	-60	2.727	7.137	...	
684	$a^3G-s^4D5p^3F^o$	4-4	1	2784.107	2783.286	-2.3	35918.16 ^D	30	2.727	7.181	...	II
		5-4	1.73	2762.3137	2761.4978	-1.4	36201.537 ^C	19	2.692	7.181	...	
		4-3	1	2696.103	2695.303	-5.1	37090.57 ^D	70	2.727	7.326	...	II
685	$a^3G-Hsp1^3G^o$	4-5	0	2776.277	2775.458	-2.3	36019.46 ^D	30	2.727	7.193	...	
		3-4	0	2771.226	2770.408	5.4	36085.11 ^D	-70	2.758	7.232	...	
		5-5	1.99	2754.6060	2753.7920	-0.5	36302.832 ^C	6	2.692	7.193	...	
		4-4	1.66	2752.1311	2751.3177	0.1	36335.478 ^D	-1	2.727	7.232	...	
		4-3	1.46	2732.1487	2731.3401	-1.3	36601.229 ^C	18	2.727	7.265	...	
		5-4	?	2730.830	2730.022	-1.5	36618.90 ^D	20	2.692	7.232	...	
686	$a^3G-s^4D5p^5F^o$	3-4	0	2759.995	2759.180	-6.1	36231.95 ^D	80	2.758	7.251	...	I
		4-4	0?	2741.072	2740.261	6.0	36482.08 ^D	-80	2.727	7.251	...	
687	$a^3G-Hsp1^3I^o$	4-5	1.77	2696.3883	2695.5884	3.4	37086.646 ^C	-47	2.727	7.325	...	
		5-6	1	2685.932	2685.135	-1.4	37231.02 ^D	20	2.692	7.308	...	
688	$a^3G-Fsp1^3F^o$	3-4	d0	2642.277	2641.490	1.4	37846.14 ^D	-20	2.758	7.451	...	
		3-3	0	2636.922	2636.136	2.1	37923.00 ^D	-30	2.758	7.460	...	I
		4-4	3*	2624.912	2624.129	-3.4	38096.52 ^D	50	2.727	7.451	...	
		4-3	1.54	2619.6307	2618.8491	0.7	38173.320 ^C	-10	2.727	7.460	...	
		5-4	1.94	2605.5329	2604.7547	-0.1	38379.864 ^B	1	2.692	7.451	...	
689	$a^3G-Fsp1^3G^o$	3-4	1	2616.660	2615.879	4.8	38216.66 ^D	-70	2.758	7.497	...	II
		4-5	1.63	2614.0346	2613.2543	-0.3	38255.041 ^C	5	2.727	7.470	...	
		3-3	1.78	2610.0002	2609.2209	0.6	38314.173 ^B	-9	2.758	7.509	-0.48 ^a	
		4-4	1.60	2599.6293	2598.8525	0.5	38467.023 ^C	-7	2.727	7.497	...	
		5-5	2.23	2594.8120	2594.0363	-0.2	38538.438 ^B	3	2.692	7.470	...	
		4-3	1.20	2593.0616	2592.2863	1.9	38564.452 ^C	-28	2.727	7.509	...	
		5-4	1.94	2580.6163	2579.8440	-0.3	38750.433 ^B	4	2.692	7.497	...	
690	$a^3G-t^3H^o$ (UV171)	3-4	d3	2596.847	2596.071	-4.7	38508.24 ^D	70	2.758	7.533	...	
		4-5	1	2594.036	2593.260	0.7	38549.97 ^D	-10	2.727	7.507	...	
		5-6	2	2587.330	2586.556	1.3	38649.88 ^D	-20	2.692	7.484	...	
		5-4	d0?	2561.352	2560.584	-0.7	39041.88 ^D	10	2.692	7.533	...	
691	$a^3G-Gsp1^3H^o$	5-6	1.56	2420.1367	2419.4017	2.4	41319.980 ^C	-41	2.692	7.815	...	
692	$z^7F^o-e^7D$ (318)	4-5	3.22	5045.6179	5044.2114	0.3	19819.178 ^A	-1	2.851	5.308	-2.02 ^a	
		5-5	4.62	5007.5155	5006.1191	0.5	19969.983 ^A	-2	2.832	5.308	-0.62 ^a	
		3-4	3.84	4986.9382	4985.5473	0.5	20052.384 ^A	-2	2.865	5.351	-1.33 ^a	
		6-5	5.47	4958.9803	4957.5968	0.5	20165.436 ^A	-2	2.808	5.308	0.23 ^a	
		4-4	4.82	4958.6820	4957.2986	0.5	20166.649 ^A	-2	2.851	5.351	-0.41 ^a	
		2-3	4.12	4940.1923	4938.8138	-0.2	20242.127 ^A	1	2.875	5.385	-1.08 ^a	
		5-4	5.29	4921.8768	4920.5031	0.5	20317.453 ^A	-2	2.832	5.351	0.07 ^a	
		3-3	4.84	4920.3673	4918.9940	0.0	20323.686 ^A	0	2.865	5.385	-0.34 ^a	
		1-2	4.24	4904.6793	4903.3102	0.2	20388.693 ^A	-1	2.882	5.410	-0.93 ^a	
		4-3	5.07	4892.8584	4891.4924	0.0	20437.951 ^A	0	2.851	5.385	-0.11 ^a	
		2-2	4.76	4892.1209	4890.7551	-0.2	20441.032 ^A	1	2.875	5.410	-0.39 ^a	
		0-1	4.26	4879.5736	4878.2112	0.0	20493.594 ^A	0	2.885	5.426	-0.89 ^a	
		1-1	4.58	4873.4986	4872.1378	0.0	20519.140 ^A	0	2.882	5.426	-0.57 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
693	$z^7F^o - e^5D$ (319)	3-2	4.80	4872.6789	4871.3182	0.2	20522.592 ^A	-1	2.865	5.410	-0.36 ^a	Ar
		2-1	4.39	4861.0990	4859.7414	-0.2	20571.480 ^A	1	2.875	5.426	-0.76 ^a	
		3-4	1.95	4636.9152	4635.6170	0.6	21566.062 ^C	-3	2.865	5.539	-3.59 ^b	
		4-4	2.16	4612.4766	4611.1849	0.9	21680.327 ^A	-4	2.851	5.539	...	
		5-4	2.32	4580.6097	4579.3264	-4.2	21831.155 ^D	20	2.832	5.539	...	
		2-3	1.88	4572.7190	4571.4378	0.2	21868.827 ^B	-1	2.875	5.587	-3.27 ^b	
		3-3	2.27	4555.7279	4554.4512	-0.2	21950.389 ^B	1	2.865	5.587	-3.05 ^b	
		1-2	1.78	4527.1326	4525.8635	-0.2	22089.037 ^C	1	2.882	5.620	-3.20 ^b	
		2-2	1.95	4516.4330	4515.1667	1.2	22141.367 ^C	-6	2.875	5.620	-3.23 ^b	
694	$z^7F^o - e^7F$ (321)	6-6	4.75	3611.1888	3610.1591	0.0	27691.712 ^A	0	2.808	6.241	0.18 ^a	Ar
		4-5	3.27	3592.3742	3591.3493	2.5	27836.744 ^B	-19	2.851	6.302	-1.82 ^b	
		0-1	3.17	3579.4040	3578.3825	0.1	27937.612 ^B	-1	2.885	6.349	-1.35 ^a	
		1-1	3.35	3576.1343	3575.1136	0.4	27963.156 ^B	-3	2.882	6.349	-1.04 ^a	
		5-5	4.30	3573.0151	3571.9953	0.1	27987.567 ^A	-1	2.832	6.302	-0.22 ^a	
		2-1	2.97	3569.4514	3568.4324	-1.8	28015.510 ^B	14	2.875	6.349	-1.52 ^a	
		3-3	4.06	3566.5995	3565.5813	-0.5	28037.911 ^A	4	2.865	6.341	...	
		2-2	3.69	3553.8429	3552.8280	-0.5	28138.554 ^A	4	2.875	6.364	-0.78 ^a	
		4-4	3.99	3546.6530	3545.6400	0.0	28195.597 ^A	0	2.851	6.347	-0.46 ^a	
695	$z^7F^o - f^7D$ (322)	4-5	2.80	3652.1378	3651.0975	1.3	27381.223 ^C	-10	2.851	6.246	-1.77 ^a	Ar
		5-5	4.19	3632.1321	3631.0970	0.0	27532.038 ^A	0	2.832	6.246	-0.33 ^a	
		6-5	4.20	3606.5291	3605.5006	0.0	27727.490 ^A	0	2.808	6.246	-0.34 ^a	
		3-3	3.47	3603.4899	3602.4621	0.0	27750.876 ^A	0	2.865	6.306	-0.86 ^a	
		1-2	3.12	3603.1103	3602.0827	0.9	27753.799 ^B	-7	2.882	6.323	-1.54 ^b	
		0-1	2.66	3600.0062	3598.9794	-1.0	27777.730 ^C	8	2.885	6.329	...	
		2-2	3.36	3596.3272	3595.3014	-0.3	27806.146 ^B	2	2.875	6.323	-1.10 ^a	
		4-4	4.26	3595.6579	3594.6322	-0.1	27811.322 ^A	1	2.851	6.299	-0.26 ^a	
		2-1	3.67	3589.9420	3588.9178	0.3	27855.603 ^A	-2	2.875	6.329	-0.90 ^a	
		3-2	3.68	3585.8089	3584.7858	-0.6	27887.710 ^A	5	2.865	6.323	-0.82 ^a	
		5-4	3.64	3576.2659	3575.2452	0.0	27962.127 ^A	0	2.832	6.299	-0.89 ^a	
696	$z^7F^o - f^5D$ (323)	3-4	2.51	3661.3692	3660.3265	1.3	27312.187 ^D	-10	2.865	6.251	...	II
		2-3	2.38	3657.3899	3656.3483	-0.9	27341.903 ^D	7	2.875	6.265	...	
		4-4	3.39	3646.1135	3645.0748	-0.3	27426.464 ^B	2	2.851	6.251	-1.28 ^a	
		4-3	3.69	3631.3827	3630.3478	0.1	27537.720 ^A	-1	2.851	6.265	-0.84 ^a	
		5-4	3.82	3626.1753	3625.1417	0.0	27577.266 ^A	0	2.832	6.251	-0.84 ^a	
		3-2	3.47	3624.8063	3623.7731	-0.1	27587.681 ^A	1	2.865	6.286	...	
		2-1	3.34	3611.7245	3610.6946	-0.7	27687.605 ^B	5	2.875	6.308	-1.21 ^a	
		1-0	3.00	3605.3998	3604.3716	-0.4	27736.175 ^B	3	2.882	6.321	...	
697	$z^7F^o - e^7P$ (324)	4-4	2.60	3639.1948	3638.1579	0.9	27478.606 ^C	-7	2.851	6.258	...	Ar
		4-3	2.72	3621.2725	3620.2402	-2.1	27614.602 ^D	16	2.851	6.275	-1.78 ^b	
		5-4	3.64	3619.3308	3618.2990	0.0	27629.417 ^A	0	2.832	6.258	-1.06 ^a	
		2-2	3.03	3614.1752	3613.1448	-0.7	27668.830 ^B	5	2.875	6.306	-1.48 ^a	
		3-2	3.77	3603.5532	3602.5255	-0.1	27750.388 ^A	1	2.865	6.306	-0.69 ^a	
698	$z^7F^o - e^5G$ (325)	5-6	4.04	3613.0988	3612.0686	0.0	27677.073 ^A	0	2.832	6.264	-0.55 ^a	II
		4-5	3.69	3609.1708	3608.1416	0.0	27707.195 ^A	0	2.851	6.286	-0.87 ^a	
		5-5	3.99	3589.6334	3588.6093	0.1	27857.998 ^A	-1	2.832	6.286	-0.60 ^a	
		3-4	3.75	3588.2630	3587.2392	0.1	27868.637 ^A	-1	2.865	6.320	-0.87 ^a	
		6-6	3.48	3587.7621	3586.7385	-0.1	27872.528 ^D	1	2.808	6.264	-1.04 ^a	
		4-4	3.19	3573.6105	3572.5905	-0.1	27982.904 ^B	1	2.851	6.320	-1.24 ^a	
		2-3	3.59	3568.0498	3567.0312	-0.1	28026.515 ^A	1	2.875	6.350	-0.95 ^a	
		3-3	3.18	3557.6965	3556.6806	0.0	28108.075 ^B	0	2.865	6.350	-1.38 ^a	
		1-2	3.50	3555.5167	3554.5014	-0.3	28125.307 ^D	2	2.882	6.369	-1.03 ^a	
699	$z^7F^o - e^7G$ (326)	6-7	5.14	3571.2736	3570.2542	0.0	28001.215 ^A	0	2.808	6.280	...	II
		5-6	5.04	3555.9400	3554.9246	0.1	28121.959 ^A	-1	2.832	6.319	0.54 ^a	
		3-4	4.72	3543.0878	3542.0756	0.1	28223.969 ^A	-1	2.865	6.365	0.21 ^a	
		4-5	4.78	3542.0952	3541.0833	0.0	28231.878 ^A	0	2.851	6.351	0.25 ^a	
		2-3	4.60	3537.5666	3536.5559	-0.3	28268.019 ^A	2	2.875	6.380	0.12 ^a	
		1-2	4.39	3534.2081	3533.1982	-0.1	28294.882 ^A	1	2.882	6.390	-0.11 ^a	
		0-1	4.11	3534.0165	3533.0066	0.1	28296.416 ^A	-1	2.885	6.393	-0.32 ^a	
		6-6	3.67	3531.3959	3530.3868	0.0	28317.414 ^A	0	2.808	6.319	-0.95 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
700	$z^7F^o-f^5F$ (327)	1-1	4.07	3530.8288	3529.8198	0.0	28321.962 ^A	0	2.882	6.393	-0.36 ^a	
		4-4	4.08	3528.8013	3527.7928	0.1	28338.235 ^A	-1	2.851	6.365	-0.44 ^a	
		2-2	4.18	3527.6828	3526.6746	-0.2	28347.220 ^A	2	2.875	6.390	-0.31 ^a	
		3-3	4.23	3527.3895	3526.3814	0.0	28349.577 ^A	0	2.865	6.380	-0.27 ^a	
		2-1	3.17	3524.3160	3523.3087	0.0	28374.300 ^B	0	2.875	6.393	-1.23 ^a	
		5-5	3.58	3523.2751	3522.2680	0.0	28382.683 ^B	0	2.832	6.351	-0.99 ^a	
		3-2	3.15	3517.5630	3516.5574	0.7	28428.773 ^B	-6	2.865	6.390	-1.20 ^a	
		4-3	3.04	3513.2300	3512.2256	0.9	28463.835 ^C	-7	2.851	6.380	-1.49 ^a	
		5-4	2.61	3510.1225	3509.1188	0.9	28489.034 ^D	-7	2.832	6.365	-2.12 ^b	
		4-5	4.58	3557.8938	3556.8779	0.0	28106.516 ^A	0	2.851	6.336	-0.04 ^b	
		5-5	3.95	3538.9060	3537.8949	0.0	28257.320 ^A	0	2.832	6.336	-0.76 ^b	
		3-4	3.96	3527.2460	3526.2380	-0.1	28350.730 ^A	1	2.865	6.380	-0.54 ^a	
		2-3	3.10	3519.6890	3518.6829	0.0	28411.601 ^C	0	2.875	6.398	-1.52 ^a	
		0-1	2.79	3510.7297	3509.7258	0.5	28484.107 ^C	-4	2.885	6.417	...	
701	$z^7F^o-e^5S$ (328)	1-1	2.81	3507.5833	3506.5803	-0.1	28509.658 ^C	1	2.882	6.417	...	
		1-2	2.93	3583.7060	3582.6833	-0.6	27904.075 ^B	5	2.882	6.341	...	
702	$z^7F^o-g^5D$ (329)	2-2	3.44	3576.9983	3575.9775	1.0	27956.401 ^B	-8	2.875	6.341	...	
		3-4	3.86	3541.1328	3540.1211	0.1	28239.551 ^A	-1	2.865	6.366	-0.80 ^a	
703	$z^7F^o-e^7S$ (330)	4-4	3.22	3526.8615	3525.8535	-0.5	28353.821 ^B	4	2.851	6.366	...	
		2-3	3.09	3523.9048	3522.8976	-1.9	28377.611 ^C	15	2.875	6.394	-1.34 ^a	
704	$z^7F^o-g^7D$ (333)	4-5	d0?	3246.312	3245.375	0.0	30804.19 ^D	0	2.851	6.670	...	
		5-5	11	3230.502	3229.570	4.2	30954.94 ^D	-40	2.832	6.670	...	
		3-4	1	3224.368	3223.437	-2.1	31013.83 ^D	20	2.865	6.710	...	
		4-4	2.84	3212.5353	3211.6075	0.4	31128.063 ^B	-4	2.851	6.710	-1.37 ^a	
		6-5	3.54	3210.2254	3209.2982	-2.2	31150.461 ^D	21	2.808	6.670	...	I
		2-3	I	3203.872	3202.947	4.1	31212.23 ^D	-40	2.875	6.745	...	
		5-4	3.26	3197.0464	3196.1226	0.2	31278.870 ^B	-2	2.832	6.710	-0.71 ^a	
		3-3	2.91	3195.5173	3194.5938	-0.1	31293.838 ^B	1	2.865	6.745	...	
		1-2	3	3188.079	3187.158	2.0	31366.85 ^D	-20	2.882	6.771	...	II
		4-3	8	3183.894	3182.974	2.0	31408.08 ^D	-20	2.851	6.745	...	I
		2-2	2.74	3182.7674	3181.8472	1.0	31419.198 ^B	-10	2.875	6.771	...	
		0-1	4	3176.903	3175.984	1.0	31477.20 ^D	-10	2.885	6.788	...	
		3-2	2.78	3174.5247	3173.6065	-1.1	31500.779 ^D	11	2.865	6.771	...	II
		1-1	2.54	3174.3244	3173.4063	-0.9	31502.766 ^C	9	2.882	6.788	...	
		2-1	2.26	3169.0590	3168.1422	-1.2	31555.108 ^C	12	2.875	6.788	...	
705	$z^7F^o-e^3H$	6-6	3	3206.136	3205.210	1.0	31190.19 ^D	-10	2.808	6.675	...	
706	$z^7F^o-s^6D6s^5D$	3-4	d0	3187.865	3186.943	0.0	31368.96 ^D	0	2.865	6.754	...	I
		4-4	1	3176.299	3175.381	4.0	31483.18 ^D	-40	2.851	6.754	...	
		5-4	3	3161.158	3160.243	5.0	31633.98 ^D	-50	2.832	6.754	...	
		2-3	d0?	3157.335	3156.421	4.0	31672.28 ^D	-40	2.875	6.802	...	
		3-3	1	3149.226	3148.315	6.0	31753.83 ^D	-60	2.865	6.802	...	
		4-3	1	3137.930	3137.021	1.0	31868.14 ^D	-10	2.851	6.802	...	I
		1-2	d0?	3135.842	3134.934	-3.0	31889.36 ^D	30	2.882	6.836	...	
		2-2	0	3130.709	3129.802	1.0	31941.65 ^D	-10	2.875	6.836	...	
707	$z^7F^o-4F6s^5F$	1-1	d9	3119.068	3118.164	-6.8	32060.86 ^D	70	2.882	6.857	...	
		4-5	d0	3019.580	3018.701	1.8	33117.19 ^D	-20	2.851	6.957	...	
		5-5	0	3005.882	3005.006	-8.1	33268.11 ^D	90	2.832	6.957	...	
		1-2	0	2916.834	2915.980	-6.0	34283.75 ^D	70	2.882	7.132	...	
708	$z^7F^o-s^6D5d^5D$	2-3	0	2913.912	2913.059	2.5	34318.13 ^D	-30	2.875	7.130	...	
		3-3	0	3009.666	3008.789	-8.2	33226.28 ^D	90	2.865	6.985	...	
		4-3	0	2999.352	2998.478	-7.2	33340.53 ^D	80	2.851	6.985	...	
		5-4	0	2997.444	2996.570	-6.3	33361.76 ^D	70	2.832	6.969	...	
		3-2	0	2996.829	2995.956	-6.3	33368.60 ^D	70	2.865	7.002	...	
709	$z^7F^o-s^6D5d^5G$	2-1	0	2981.279	2980.409	0.0	33542.65 ^D	0	2.875	7.034	...	
		5-6	5	2985.428	2984.558	-3.6	33496.03 ^D	40	2.832	6.985	...	
		4-5	3	2980.278	2979.408	2.7	33553.92 ^D	-30	2.851	7.011	...	
		3-4	1	2979.543	2978.674	0.9	33562.19 ^D	-10	2.865	7.026	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
710	$z^7F^o - s^6D5d^7F$	4-4	1	2969.433	2968.566	0.0	33676.46 ^D	0	2.851	7.026	...	
		5-5	2	2966.943	2966.076	2.6	33704.73 ^D	-30	2.832	7.011	...	
		2-3	d0?	2953.059	2952.196	-6.1	33863.19 ^D	70	2.875	7.074	...	
		3-3	2	2945.966	2945.105	-3.5	33944.72 ^D	40	2.865	7.074	...	
		1-2	d0?	2942.130	2941.270	1.7	33988.98 ^D	-20	2.882	7.096	...	
		2-2	d0?	2937.608	2936.749	3.5	34041.30 ^D	-40	2.875	7.096	...	
		4-3	d0*	2936.091	2935.232	4.3	34058.89 ^D	-50	2.851	7.074	...	
		5-6	3	2977.776	2976.907	0.0	33582.11 ^D	0	2.832	6.996	...	
		6-6	2.84	2960.5448	2959.6802	-0.8	33777.567 ^B	9	2.808	6.996	...	
		4-5	2.28	2954.5541	2953.6910	0.1	33846.055 ^C	-1	2.851	7.047	...	
		2-3	2	2950.564	2949.702	-3.5	33891.82 ^D	40	2.875	7.077	...	
		3-2	4	2948.223	2947.361	-5.2	33918.74 ^D	60	2.865	7.071	...	I
		0-1	0	2946.084	2945.223	0.0	33943.36 ^D	0	2.885	7.093	...	
		1-1	1	2943.864	2943.004	-4.3	33968.96 ^D	50	2.882	7.093	...	
		3-3	4	2943.485	2942.625	0.9	33973.33 ^D	-10	2.865	7.077	...	I
		5-5	2.60	2941.4475	2940.5877	-0.4	33996.867 ^B	5	2.832	7.047	...	
		2-1	1	2939.342	2938.483	1.7	34021.22 ^D	-20	2.875	7.093	...	
		3-4	2.83	2924.2863	2923.4307	0.1	34196.378 ^B	-1	2.865	7.105	...	
		4-4	1	2914.544	2913.690	-3.4	34310.69 ^D	40	2.851	7.105	...	
		5-4	0	2901.788	2900.938	-5.1	34461.51 ^D	60	2.832	7.105	...	
711	$z^7F^o - s^6D5d^7D$	3-4	d0?	2999.310	2998.436	6.3	33341.00 ^D	-70	2.865	6.999	...	
		4-4	0?	2989.059	2988.187	0.0	33455.35 ^D	0	2.851	6.999	...	I
		5-5	2.30	2977.4188	2976.5500	1.1	33586.138 ^C	-12	2.832	6.996	...	
		5-4	2.00	2975.6462	2974.7778	0.1	33606.146 ^D	-1	2.832	6.999	...	I
		3-2	3	2964.557	2963.692	1.8	33731.85 ^D	-20	2.865	7.047	...	
		6-5	2.41	2960.1892	2959.3247	-1.8	33781.624 ^C	21	2.808	6.996	...	
712	$z^7F^o - s^6D5d^7P$	2-3	1	2951.779	2950.917	0.0	33877.87 ^D	0	2.875	7.076	...	
		3-3	d0?	2998.400	2997.526	-3.6	33351.12 ^D	40	2.865	7.000	...	II
		4-3	4.11	2988.1620	2987.2905	-4.3	33465.388 ^D	48	2.851	7.000	...	I
		3-4	3?	2964.410	2963.544	0.0	33733.53 ^D	0	2.865	7.048	...	
		4-4	2.08	2954.4022	2953.5391	0.3	33847.795 ^D	-4	2.851	7.048	...	
		2-2	2.26	2932.6612	2931.8035	1.1	34098.722 ^D	-13	2.875	7.103	...	I
713	$z^7F^o - s^6D5d^7G$	3-2	d0?	2925.667	2924.811	4.3	34180.24 ^D	-50	2.865	7.103	...	
		6-7	3.29	2951.1035	2950.2413	0.1	33885.629 ^A	-1	2.808	7.009	...	
		5-6	3.12	2938.6659	2937.8067	-0.2	34029.047 ^A	2	2.832	7.051	...	
		3-4	2.30	2937.2966	2936.4378	0.5	34044.910 ^C	-6	2.865	7.086	...	
		1-1	2	2934.662	2933.804	2.6	34075.47 ^D	-30	2.882	7.107	...	
		2-1	0	2930.161	2929.304	1.7	34127.82 ^D	-20	2.875	7.107	...	
		4-5	3.31	2929.9654	2929.1084	4.4	34130.096 ^B	-51	2.851	7.083	...	
		4-4	2.26	2927.4717	2926.6153	1.0	34159.169 ^C	-12	2.851	7.086	...	
		2-3	2.54	2926.6407	2925.7845	-0.3	34168.868 ^B	4	2.875	7.112	...	
		1-2	2.46	2923.4788	2922.6234	0.1	34205.823 ^C	-1	2.882	7.123	...	
		6-6	1	2921.886	2921.031	1.7	34224.47 ^D	-20	2.808	7.051	...	
		3-3	2.20	2919.6714	2918.8169	-0.4	34250.430 ^C	5	2.865	7.112	...	
		2-2	2.04	2919.0133	2918.1590	0.9	34258.151 ^D	-11	2.875	7.123	...	
		5-5	d3	2917.068	2916.214	-3.4	34281.00 ^D	40	2.832	7.083	...	
		3-2	0	2912.083	2911.230	3.4	34339.68 ^D	-40	2.865	7.123	...	
		4-3	d0?	2909.965	2909.113	1.7	34364.67 ^D	-20	2.851	7.112	...	
714	$z^7F^o - s^6D5d^5S$	6-5	d0?	2900.531	2899.681	-3.4	34476.45 ^D	40	2.808	7.083	...	
		2-2	d0?	2982.592	2981.722	1.8	33527.88 ^D	-20	2.875	7.032	...	
715	$z^7F^o - s^6D5d^5F$	3-2	d3	2975.351	2974.483	-0.9	33609.48 ^D	10	2.865	7.032	...	
		2-3	d0?	2982.010	2981.140	-3.6	33534.43 ^D	40	2.875	7.033	...	
		3-3	0	2974.778	2973.910	0.0	33615.95 ^D	0	2.865	7.033	...	
		1-2	0	2966.702	2965.836	-7.0	33707.46 ^D	80	2.882	7.061	...	
		4-5	2	2961.631	2960.766	1.8	33765.18 ^D	-20	2.851	7.037	...	
		3-2	d0*	2954.970	2954.107	-0.9	33841.29 ^D	10	2.865	7.061	...	
		3-4	4*	2939.940	2939.080	0.0	34014.30 ^D	0	2.865	7.082	...	
		4-4	2.20	2930.0952	2929.2381	-0.9	34128.584 ^C	10	2.851	7.082	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
716	$z^7F^o - s^4F6s^3F$	4-4	2.38	2957.5653	2956.7014	-0.3	33811.595 ^C	4	2.851	7.043	...	
		5-4	2.08	2944.4320	2943.5714	-1.0	33962.408 ^D	12	2.832	7.043	...	
		2-3	2	2938.900	2938.040	-0.9	34026.34 ^D	10	2.875	7.094	...	
		1-2	0	2894.681	2893.833	-4.2	34546.12 ^D	50	2.882	7.165	...	II
717	$z^7F^o - s^6D5d^5P$	2-3	1	2943.978	2943.117	-0.9	33967.65 ^D	10	2.875	7.087	...	II
		3-3	2.26	2936.9261	2936.0674	-0.4	34049.205 ^C	5	2.865	7.087	...	
		1-2	2	2927.550	2926.694	3.4	34158.25 ^D	-40	2.882	7.117	...	
		4-3	1	2927.102	2926.246	-0.9	34163.48 ^D	10	2.851	7.087	...	II
		2-2	2.00	2923.0681	2922.2128	0.2	34210.630 ^D	-2	2.875	7.117	...	
		3-2	d0	2916.124	2915.271	8.5	34292.09 ^D	-100	2.865	7.117	...	
718	$z^7F^o - s^6D5d^7S$	2-3	2.23	2920.0679	2919.2133	-1.2	34245.779 ^D	14	2.875	7.121	...	
		3-3	5*	2913.126	2912.273	-5.1	34327.39 ^D	60	2.865	7.121	...	
		4-3	0	2903.466	2902.615	0.0	34441.60 ^D	0	2.851	7.121	...	
719	$z^7F^o - i^5D$ (UV174)	2-3	d0?	2888.385	2887.539	1.7	34621.42 ^D	-20	2.875	7.168	...	
720	$z^7F^o - s^6D7s^7D$	4-4	2.26	2840.8111	2839.9761	1.9	35201.214 ^C	-23	2.851	7.215	...	
		6-5	2.37	2837.1488	2836.3147	-1.6	35246.653 ^D	20	2.808	7.178	...	
		2-3	d0?	2833.846	2833.013	5.6	35287.73 ^D	-70	2.875	7.250	...	
		1-2	d0?	2821.754	2820.924	0.8	35438.95 ^D	-10	2.882	7.276	...	
		3-2	1	2811.139	2810.311	7.1	35572.77 ^D	-90	2.865	7.276	...	
721	$z^7F^o - g^5G$ (UV176)	5-6	14	2844.461	2843.625	0.8	35156.05 ^D	-10	2.832	7.191	...	I
		4-5	d0?	2834.892	2834.059	5.6	35274.71 ^D	-70	2.851	7.224	...	
		6-6	d5	2828.726	2827.894	-6.4	35351.60 ^D	80	2.808	7.191	...	I
722	$z^7F^o - s^6D7s^5D$	3-4	d0?	2840.068	2839.233	0.8	35210.43 ^D	-10	2.865	7.231	...	
		4-4	d1	2830.887	2830.054	6.4	35324.62 ^D	-80	2.851	7.231	...	II
		5-4	2	2818.852	2818.023	6.4	35475.43 ^D	-80	2.832	7.231	...	
		4-3	d0?	2795.973	2795.149	4.7	35765.72 ^D	-60	2.851	7.285	...	
		2-1	d0?	2783.902	2783.081	2.3	35920.80 ^D	-30	2.875	7.329	...	II
		3-2	I	2783.590	2782.769	0.0	35924.83 ^D	0	2.865	7.319	...	
723	$z^7F^o - s^6D_{4.5}6d [2.5]$	2-3	1	2775.874	2775.055	0.8	36024.69 ^D	-10	2.875	7.342	...	
	$z^7F^o - s^6D_{4.5}6d [2.5]$	3-3	2.50	2769.6041	2768.7864	1.5	36106.244 ^D	-19	2.865	7.342	...	II
	$z^7F^o - s^6D_{4.5}6d [4.5]$	4-4	d1	2767.256	2766.439	3.8	36136.88 ^D	-50	2.851	7.331	...	
	$z^7F^o - s^6D_{4.5}6d [5.5]$	4-5	2.06	2763.4975	2762.6813	1.5	36186.029 ^D	-19	2.851	7.337	...	I
	$z^7F^o - s^6D_{4.5}6d [5.5]$	5-6	d2?	2756.474	2755.660	-1.5	36278.23 ^D	20	2.832	7.330	...	
	$z^7F^o - s^6D_{4.5}6d [4.5]$	5-5	0	2756.269	2755.455	-3.0	36280.93 ^D	40	2.832	7.331	...	
	$z^7F^o - s^6D_{4.5}6d [4.5]$	5-4	3	2755.755	2754.941	3.8	36287.69 ^D	-50	2.832	7.331	...	I
	$z^7F^o - s^6D_{4.5}6d [6.5]$	5-6	1.58	2754.7803	2753.9663	-2.4	36300.535 ^D	32	2.832	7.333	...	
	$z^7F^o - s^6D_{4.5}6d [5.5]$	5-5	0?	2752.022	2751.209	-4.5	36336.92 ^D	60	2.832	7.337	...	
	$z^7F^o - s^6D_{4.5}6d [5.5]$	6-6	1.86	2741.7031	2740.8922	-1.9	36473.680 ^C	25	2.808	7.330	...	
	$z^7F^o - s^6D_{4.5}6d [4.5]$	6-5	1.80	2741.4997	2740.6888	-3.8	36476.386 ^C	50	2.808	7.331	...	
	$z^7F^o - s^6D_{4.5}6d [6.5]$	6-6	1	2740.031	2739.220	0.8	36495.94 ^D	-10	2.808	7.333	...	
	$z^7F^o - s^6D_{4.5}6d [6.5]$	6-7	2.09	2737.5723	2736.7625	0.1	36528.715 ^C	-1	2.808	7.337	...	
	$z^7F^o - s^6D_{4.5}6d [5.5]$	6-5	d0	2737.301	2736.491	-2.2	36532.34 ^D	30	2.808	7.337	...	II
724	$z^7F^o - s^6D_{3.5}6d [1.5]$	1-2	2.70	2752.9638	2752.1502	3.5	36324.488 ^D	-46	2.882	7.385	...	II
	$z^7F^o - s^6D_{3.5}6d [1.5]$	1-1	1.88	2751.3367	2750.5234	3.3	36345.970 ^C	-43	2.882	7.388	...	
	$z^7F^o - s^6D_{3.5}6d [2.5]$	2-3	d0?	2751.331	2750.517	3.0	36346.05 ^D	-40	2.875	7.382	...	I
	$z^7F^o - s^6D_{3.5}6d [3.5]$	3-3	I	2746.547	2745.735	0.8	36409.35 ^D	-10	2.865	7.379	...	
	$z^7F^o - s^6D_{3.5}6d [4.5]$	3-4	0	2745.598	2744.786	-2.3	36421.94 ^D	30	2.865	7.381	...	
	$z^7F^o - s^6D_{3.5}6d [2.5]$	3-3	d1	2745.164	2744.352	-3.0	36427.70 ^D	40	2.865	7.382	...	G
	$z^7F^o - s^6D_{3.5}6d [3.5]$	4-3	1.62	2737.9497	2737.1398	-4.0	36523.680 ^C	53	2.851	7.379	...	
	$z^7F^o - s^6D_{3.5}6d [4.5]$	4-4	2*	2737.009	2736.199	-5.2	36536.24 ^D	70	2.851	7.381	...	
	$z^7F^o - s^6D_{3.5}6d [5.5]$	4-5	1.78	2735.2565	2734.4472	0.4	36559.642 ^D	-6	2.851	7.384	...	
	$z^7F^o - s^6D_{3.5}6d [4.5]$	5-4	3.42	2725.7603	2724.9532	-2.9	36687.012 ^D	39	2.832	7.381	...	I
	$z^7F^o - s^6D_{3.5}6d [5.5]$	5-6	2.06	2725.1481	2724.3412	-0.1	36695.253 ^C	1	2.832	7.382	...	
	$z^7F^o - s^6D_{3.5}6d [5.5]$	5-5	1	2724.016	2723.210	-3.0	36710.50 ^D	40	2.832	7.384	...	
	$z^7F^o - s^6D_{3.5}6d [4.5]$	6-5	d0?	2716.431	2715.626	5.9	36813.01 ^D	-80	2.808	7.372	...	
725	$z^7F^o - s^5D4p^2^7F$	3-4	2	2735.696	2734.886	0.0	36553.77 ^D	0	2.865	7.397	...	I
		4-4	d0?	2727.175	2726.368	3.0	36667.98 ^D	-40	2.851	7.397	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		5-5	1*	2726.432	2725.625	3.0	36677.97 ^D	-40	2.832	7.380	...	
726	$z^7F^o-s^6D_{2.5}6d$ [2.5]	2-3	2.55	2730.1370	2729.3289	-2.7	36628.198 ^D	36	2.875	7.417	...	II
	$z^7F^o-s^6D_{2.5}6d$ [3.5]	2-3	1	2725.224	2724.417	-1.5	36694.23 ^D	20	2.875	7.425	...	
	$z^7F^o-s^6D_{2.5}6d$ [2.5]	3-3	d0?	2724.073	2723.266	-0.7	36709.74 ^D	10	2.865	7.417	...	
	$z^7F^o-s^6D_{2.5}6d$ [4.5]	4-5	1	2723.158	2722.352	-1.5	36722.07 ^D	20	2.851	7.404	...	
	$z^7F^o-s^6D_{2.5}6d$ [4.5]	4-4	3	2722.621	2721.815	-5.9	36729.31 ^D	80	2.851	7.405	...	I
	$z^7F^o-s^6D_{2.5}6d$ [3.5]	4-4	d7	2711.348	2710.545	-3.7	36882.02 ^D	50	2.851	7.424	...	I
727	$z^7F^o-s^6D_{1.5}6d$ [0.5]	0-1	d0?	2724.934	2724.127	0.0	36698.14 ^D	0	2.885	7.435	...	
	$z^7F^o-s^6D_{1.5}6d$ [0.5]	1-1	2	2723.044	2722.237	5.2	36723.61 ^D	-70	2.882	7.435	...	
	$z^7F^o-s^6D_{1.5}6d$ [1.5]	0-1	3	2722.621	2721.815	6.7	36729.31 ^D	-90	2.885	7.439	...	I
	$z^7F^o-s^6D_{1.5}6d$ [1.5]	1-2	d0	2718.114	2717.309	0.0	36790.21 ^D	0	2.882	7.443	...	
	$z^7F^o-s^6D_{1.5}6d$ [1.5]	2-1	d0	2716.848	2716.043	-4.4	36807.36 ^D	60	2.875	7.439	...	
	$z^7F^o-s^6D_{1.5}6d$ [1.5]	2-2	3	2714.254	2713.450	0.7	36842.53 ^D	-10	2.875	7.443	...	
	$z^7F^o-s^6D_{1.5}6d$ [2.5]	2-3	0	2711.246	2710.443	0.7	36883.41 ^D	-10	2.875	7.448	...	
	$z^7F^o-s^6D_{1.5}6d$ [3.5]	2-3	1.78	2709.6961	2708.8929	1.0	36904.508 ^C	-14	2.875	7.451	...	
	$z^7F^o-s^6D_{1.5}6d$ [1.5]	3-2	4	2708.254	2707.451	-3.7	36924.16 ^D	50	2.865	7.443	...	I
	$z^7F^o-s^6D_{1.5}6d$ [2.5]	3-3	2.52	2705.2666	2704.4645	3.6	36964.934 ^D	-49	2.865	7.448	...	
	$z^7F^o-s^6D_{1.5}6d$ [3.5]	3-3	1.54	2703.7170	2702.9153	-2.7	36986.120 ^C	37	2.865	7.451	...	
	$z^7F^o-s^6D_{1.5}6d$ [2.5]	4-3	2.44	2696.9234	2696.1233	-3.0	37079.288 ^D	41	2.851	7.448	...	II
728	$z^7F^o-s^6D_{0.5}6d$ [1.5]	1-2	1.78	2711.2183	2710.4148	-1.8	36883.787 ^C	24	2.882	7.455	...	
	$z^7F^o-s^6D_{0.5}6d$ [1.5]	0-1	1	2709.452	2708.649	2.2	36907.83 ^D	-30	2.885	7.461	...	
	$z^7F^o-s^6D_{0.5}6d$ [1.5]	2-2	13	2707.384	2706.582	5.9	36936.02 ^D	-80	2.875	7.455	...	I
	$z^7F^o-s^6D_{0.5}6d$ [1.5]	3-2	0	2701.409	2700.608	-3.6	37017.72 ^D	50	2.865	7.455	...	
729	$z^7F^o-62079^e$	5-6	2.22	2548.8452	2548.0803	-0.2	39233.454 ^B	3	2.832	7.697	...	
		6-6	2.42	2536.2104	2535.4486	-0.1	39428.905 ^A	1	2.808	7.697	...	
730	$z^7F^o-62192^e$	4-5	6	2551.276	2550.510	-1.3	39196.08 ^D	20	2.851	7.711	...	
		5-5	7*	2541.495	2540.732	-3.2	39346.92 ^D	50	2.832	7.711	...	
		6-5	9	2528.932	2528.172	-3.8	39542.38 ^D	60	2.808	7.711	...	
731	$b^3P-z^5P^o$	2-3	1.34	16082.346	16077.954	8	6217.998 ^A	-3	2.831	3.602	...	
		0-1	0.85	14967.857	14963.767	4	6680.983 ^A	-2	2.858	3.686	...	
		1-1	1.46	14736.401	14732.375	4	6785.917 ^D	-2	2.845	3.686	...	II
732	$b^3P-z^3F^o$ (336)	2-3	2.91	11152.317	11149.264	2	8966.746 ^A	-2	2.831	3.943	...	
		1-2	2.43	10884.741	10881.760	1	9187.173 ^A	-1	2.845	3.984	...	
		2-2	1.71	10757.702	10754.756	2	9295.665 ^A	-2	2.831	3.984	...	
733	$b^3P-z^3D^o$ (337)	2-3	4.56	11786.492	11783.267	3	8484.288 ^A	-2	2.831	3.883	-1.57 ^a	
		1-2	4.26	11442.259	11439.127	3	8739.533 ^A	-2	2.845	3.928	-1.75 ^a	
		2-2	3.40	11301.955	11298.862	3	8848.026 ^A	-2	2.831	3.928	-2.59 ^a	
		0-1	3.69	11254.197	11251.116	1	8885.574 ^A	-1	2.858	3.960	-2.19 ^a	
		1-1	3.48	11122.843	11119.798	1	8990.507 ^A	-1	2.845	3.960	-2.20 ^a	
		2-1	1.99	10990.218	10987.209	2	9099.000 ^A	-2	2.831	3.960	...	
734	$b^3P-y^5D^o$ (338)	1-2	2.45	9212.5533	9210.0258	1.7	10854.754 ^A	-2	2.845	4.191	-2.40 ^a	
		2-2	2.91	9121.3845	9118.8816	0.0	10963.248 ^A	0	2.831	4.191	-2.12 ^a	
		0-1	1.79	9119.6351	9117.1327	0.8	10965.351 ^A	-1	2.858	4.217	...	
		1-1	1.76	9033.1919	9030.7129	2.4	11070.284 ^A	-3	2.845	4.217	...	
		1-0	1.75	8948.7180	8946.2619	0.8	11174.785 ^A	-1	2.845	4.230	...	
		2-1	2.01	8945.5192	8943.0639	-1.6	11178.781 ^A	2	2.831	4.217	...	
735	$b^3P-z^3P^o$ (339)	1-2	3.55	9090.8132	9088.3186	0.0	11000.116 ^A	0	2.845	4.209	-1.87 ^a	
		2-2	4.16	9002.0272	8999.5566	0.8	11108.609 ^A	-1	2.831	4.209	-1.19 ^a	
		0-1	3.57	8840.8559	8838.4290	1.6	11311.122 ^A	-2	2.858	4.260	-1.87 ^a	
		1-1	3.56	8759.5926	8757.1876	0.8	11416.056 ^A	-1	2.845	4.260	-1.91 ^a	
		2-1	3.84	8677.1291	8674.7465	0.8	11524.549 ^A	-1	2.831	4.260	-1.68 ^a	
		1-0	3.67	8614.1696	8611.8040	0.7	11608.780 ^A	-1	2.845	4.284	-1.85 ^a	
736	$b^3P-y^3D^o$ (342)	2-3	4.27	6520.1681	6518.3671	1.3	15337.028 ^A	-3	2.831	4.733	-2.30 ^a	
		1-2	4.23	6356.7861	6355.0290	0.8	15731.220 ^A	-2	2.845	4.795	-2.29 ^a	
		2-2	3.00	6313.2457	6311.5003	0.8	15839.713 ^A	-2	2.831	4.795	-3.23 ^b	
		0-1	2.88	6271.9593	6270.2250	1.6	15943.981 ^A	-4	2.858	4.835	-2.61 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{gr}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		1–1	1.95	6230.9516	6229.2283	2.3	16048.913 ^B	-6	2.845	4.835	-2.97 ^b	
737	$b^3P-x^5D^o$ (343)	2–3	0.70	5837.1913	5835.5735	0.3	17131.527 ^A	-1	2.831	4.955	...	
738	$b^3P-z^5S^o$ (345)	2–2	2.08	5538.1179	5536.5801	-3.4	18056.676 ^D	11	2.831	5.070	-3.81 ^b	
739	$b^3P-x^5P^o$ (346)	0–1	1.48	4993.1930	4991.8004	1.5	20027.265 ^D	-6	2.858	5.341	...	
		1–1	1.78	4967.1660	4965.7804	0.5	20132.204 ^C	-2	2.845	5.341	...	
740	$b^3P-w^5D^o$	2–3	3.18	4742.8559	4741.5297	0.0	21084.343 ^A	0	2.831	5.446	-1.76 ^a	
		1–2	2.89	4708.8049	4707.4877	-0.2	21236.811 ^A	1	2.845	5.478	-2.31 ^a	
		2–2	2.67	4684.8705	4683.5597	-0.7	21345.307 ^A	3	2.831	5.478	-2.32 ^a	
		0–1	2.23	4681.7773	4680.4672	-0.2	21359.410 ^B	1	2.858	5.506	-2.73 ^a	
		1–1	2.23	4658.8887	4657.5848	-0.9	21464.346 ^B	4	2.845	5.506	-2.90 ^b	
741	$b^3P-v^5D^o$ (348)	2–3	2.75	4688.6983	4687.3865	0.2	21327.881 ^A	-1	2.831	5.476	-2.76 ^a	
		1–2	1.98	4604.6320	4603.3424	-0.8	21717.262 ^B	4	2.845	5.537	-3.14 ^b	
		1–1	1.78	4584.2240	4582.9397	-2.9	21813.943 ^C	14	2.845	5.549	...	
		2–2	1.48	4581.7432	4580.4596	-0.8	21825.754 ^C	4	2.831	5.537	...	
742	$b^3P-w^5F^o$ (347)	0–1	1.78	4688.9828	4687.6709	0.7	21326.587 ^C	-3	2.858	5.502	-3.78 ^b	
		1–2	2.19	4686.3358	4685.0246	0.9	21338.633 ^B	-4	2.845	5.491	-3.34 ^b	
		1–1	2.04	4666.0242	4664.7183	0.7	21431.522 ^D	-3	2.845	5.502	...	
		2–2	1.48	4662.6246	4661.3197	-4.1	21447.148 ^D	19	2.831	5.491	-4.07 ^b	
743	$b^3P-y^5S^o$ (349)	1–2	2.94	4637.1444	4635.8462	-0.4	21564.996 ^A	2	2.845	5.519	-2.36 ^a	
744	$b^3P-x^3D^o$ (350)	1–2	4.40	4477.2746	4476.0186	0.0	22335.016 ^A	0	2.845	5.614	-0.82 ^a	
		2–3	4.66	4467.8053	4466.5518	0.4	22382.354 ^A	-2	2.831	5.606	-0.60 ^a	
		2–2	3.92	4455.6312	4454.3810	0.0	22443.509 ^A	0	2.831	5.614	-1.30 ^a	
		0–1	4.15	4444.4415	4443.1942	0.2	22500.015 ^D	-1	2.858	5.648	-1.04 ^a	I
		1–1	4.09	4423.8100	4422.5681	0.2	22604.949 ^A	-1	2.845	5.648	-1.12 ^a	
		2–1	2.98	4402.6793	4401.4429	0.0	22713.442 ^A	0	2.831	5.648	-2.15 ^a	
745	$b^3P-w^5P^o$ (351)	2–3	2.43	4292.0719	4290.8647	0.2	23298.771 ^B	-1	2.831	5.720	-2.13 ^a	
		0–1	2.06	4281.0743	4279.8700	1.3	23358.623 ^C	-7	2.858	5.754	-2.33 ^b	
		1–1	2.34	4261.9282	4260.7289	0.9	23463.558 ^B	-5	2.845	5.754	...	
		2–2	2.52	4259.8099	4258.6112	-2.5	23475.226 ^B	14	2.831	5.742	-2.02 ^b	
		2–1	2.29	4242.3084	4241.1143	-2.7	23572.072 ^C	15	2.831	5.754	-2.51 ^b	
746	$b^3P-z^3S^o$ (352)	0–1	3.75	4246.4524	4245.2572	-0.4	23549.069 ^A	2	2.858	5.778	-1.17 ^b	
		1–1	3.50	4227.6142	4226.4240	-0.4	23654.003 ^A	2	2.845	5.778	-1.52 ^b	
		2–1	3.55	4208.3123	4207.1271	-0.4	23762.495 ^A	2	2.831	5.778	-1.46 ^b	
747	$b^3P-y^3P^o$ (355)	1–0	3.82	4214.8343	4213.6474	-0.4	23725.725 ^A	2	2.845	5.786	-1.29 ^b	
		1–2	4.09	4205.1692	4203.9848	0.2	23780.256 ^A	-1	2.845	5.793	-1.01 ^a	
		0–1	3.43	4192.8577	4191.6765	-0.2	23850.082 ^A	1	2.858	5.815	-1.49 ^a	
		2–2	4.22	4186.0712	4184.8918	0.2	23888.748 ^A	-1	2.831	5.793	-0.87 ^a	
		1–1	3.20	4174.4914	4173.3151	0.0	23955.014 ^A	0	2.845	5.815	-1.69 ^a	
		2–1	4.27	4155.6701	4154.4987	-0.2	24063.508 ^A	1	2.831	5.815	-0.69 ^a	
748	$b^3P-u^5D^o$ (354)	2–3	4.69	4182.9332	4181.7547	0.0	23906.669 ^A	0	2.831	5.795	-0.37 ^a	
		1–2	4.20	4176.8130	4175.6361	0.0	23941.699 ^A	0	2.845	5.813	-0.83 ^a	
		2–2	4.28	4157.9708	4156.7988	0.0	24050.193 ^A	0	2.831	5.813	-0.81 ^a	
		1–0	2.38	4128.0186	4126.8545	2.9	24224.697 ^D	-17	2.845	5.848	-2.54 ^b	
		1–1	2.96	4127.0443	4125.8804	0.2	24230.416 ^A	-1	2.845	5.849	-2.22 ^a	
		2–1	4.16	4108.6474	4107.4883	0.0	24338.910 ^A	0	2.831	5.849	-0.88 ^a	
749	$b^3P-x^3F^o$ (356)	1–2	3.68	4123.6785	4122.5155	0.0	24250.193 ^A	0	2.845	5.851	-1.39 ^a	
		2–3	3.77	4122.9655	4121.8026	0.2	24254.387 ^A	-1	2.831	5.839	-1.45 ^a	
		2–2	2.76	4105.3121	4104.1539	0.2	24358.684 ^B	-1	2.831	5.851	...	
750	$b^3P-w^3D^o$ (357)	2–3	4.43	4135.8438	4134.6776	0.0	24178.863 ^A	0	2.831	5.829	-0.65 ^a	
		1–2	4.07	4134.0649	4132.8992	0.0	24189.267 ^A	0	2.845	5.844	-1.01 ^a	
		0–1	4.04	4128.7721	4127.6078	0.0	24220.276 ^A	0	2.858	5.861	-0.96 ^a	
		2–2	3.72	4115.6059	4114.4450	0.0	24297.759 ^A	0	2.831	5.844	-1.30 ^a	
		1–1	4.06	4110.9614	4109.8017	0.0	24325.210 ^A	0	2.845	5.861	-0.94 ^a	
		2–1	2.84	4092.7080	4091.5531	0.3	24433.700 ^B	-2	2.831	5.861	-2.12 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
751	$b^3P-w^5G^\circ$	2-3	2.43	4023.3494	4022.2127	0.3	24854.913 ^C	-2	2.831	5.913	...	
752	$b^3P-Psp3^1D^\circ$ (358*)	1-2	3.89	4086.1573	4085.0041	-0.2	24472.871 ^A	1	2.845	5.879	-1.28 ^b	
		2-2	4.14	4068.1227	4066.9742	0.0	24581.363 ^A	0	2.831	5.879	...	
753	$b^3P-y^3S^\circ$ (359)	0-1	3.66	4080.9899	4079.8380	-0.2	24503.859 ^A	1	2.858	5.896	-1.36 ^a	
		1-1	4.18	4063.5882	4062.4409	0.0	24608.793 ^A	0	2.845	5.896	-0.86 ^a	
		2-1	3.83	4045.7518	4044.6092	0.0	24717.285 ^A	0	2.831	5.896	-1.22 ^a	
754	$b^3P-v^5F^\circ$ (362)	2-3	2.96	3954.9765	3953.8576	0.5	25284.600 ^B	-3	2.831	5.966	-2.03 ^b	
		1-2	3.31	3953.8144	3952.6958	-0.3	25292.032 ^B	2	2.845	5.981	-1.39 ^a	
		2-2	3.97	3936.9267	3935.8124	-0.2	25400.524 ^A	1	2.831	5.981	-0.88 ^a	
		1-1	3.02	3936.4208	3935.3067	0.0	25403.788 ^B	0	2.845	5.995	-1.87 ^b	
755	$b^3P-v^5P^\circ$ (361)	2-3	2.36	3979.5817	3978.4564	-1.3	25128.269 ^D	8	2.831	5.947	...	
		1-2	3.22	3965.6370	3964.5153	-0.2	25216.630 ^B	1	2.845	5.971	-1.59 ^a	
		0-1	3.02	3962.2610	3961.1402	0.6	25238.115 ^B	-4	2.858	5.987	-1.79 ^b	
		2-2	3.63	3948.6481	3947.5309	-0.2	25325.123 ^A	1	2.831	5.971	-1.22 ^a	
		1-1	2.64	3945.8553	3944.7387	0.8	25343.048 ^C	-5	2.845	5.987	-2.09 ^b	
		2-1	4.66	3929.0321	3927.9199	-2.3	25451.561 ^D	15	2.831	5.987	...	I
756	$b^3P-x^3P^\circ$ (364)	1-2	3.92	3943.5559	3942.4399	0.2	25357.825 ^A	-1	2.845	5.989	-0.95 ^a	
		0-1	3.97	3927.0529	3925.9413	-0.3	25464.388 ^A	2	2.858	6.015	-0.94 ^a	
		2-2	3.84	3926.7553	3925.6438	0.2	25466.318 ^A	-1	2.831	5.989	-1.03 ^a	
		1-0	3.90	3919.5251	3918.4154	0.0	25513.295 ^A	0	2.845	6.008	-1.01 ^a	
		1-1	3.56	3910.9370	3909.8296	0.2	25569.320 ^A	-1	2.845	6.015	-1.32 ^a	
		2-1	3.50	3894.4125	3893.3094	0.0	25677.814 ^A	0	2.831	6.015	-1.51 ^a	
757	$b^3P-w^3F^\circ$	2-3	3.71	3787.2246	3786.1494	0.1	26404.560 ^A	-1	2.831	6.105	-1.32 ^a	
758	$b^3P-v^3D^\circ$ (367)	0-1	3.01	3810.1211	3809.0399	-0.1	26245.885 ^B	1	2.858	6.112	-1.99 ^b	
		1-2	3.60	3802.8880	3801.8086	-0.1	26295.805 ^A	1	2.845	6.105	...	
		2-3	4.03	3802.7587	3801.6794	-0.1	26296.699 ^A	1	2.831	6.092	-1.02 ^a	
		1-1	3.67	3794.9489	3793.8716	0.1	26350.816 ^A	-1	2.845	6.112	-1.40 ^a	
		2-2	3.99	3787.2622	3786.1869	-0.1	26404.298 ^A	1	2.831	6.105	-0.90 ^b	
		2-1	3.22	3779.3879	3778.3147	-0.1	26459.311 ^B	1	2.831	6.112	-1.85 ^a	
759	$b^3P-Fsp3^1F^\circ$ (368*)	2-3	2.57	3753.9220	3752.8554	-0.6	26638.806 ^C	4	2.831	6.134	...	
760	$b^3P-w^3P^\circ$ (369)	0-1	3.75	3704.8751	3703.8212	-0.1	26991.463 ^A	1	2.858	6.204	-1.20 ^a	
		1-0	3.74	3703.0828	3702.0294	0.0	27004.527 ^A	0	2.845	6.193	-1.14 ^b	
		2-1	3.60	3675.8100	3674.7636	0.1	27204.888 ^A	-1	2.831	6.204	-1.32 ^a	
		1-2	3.81	3671.0695	3670.0244	-0.3	27240.018 ^A	2	2.845	6.222	-1.06 ^a	
		2-2	3.97	3656.5063	3655.4649	0.0	27348.510 ^A	0	2.831	6.222	-0.93 ^a	
761	$b^3P-z^1F^\circ$ (370)	2-3	2.64	3603.7926	3602.7648	1.0	27748.545 ^C	-8	2.831	6.272	...	
762	$b^3P-v^3F^\circ$ (371)	1-2	2.89	3539.2627	3538.2516	0.0	28254.472 ^C	0	2.845	6.348	...	
763	$b^3P-u^3G^\circ$ (372)	2-3	2.56	3449.7697	3448.7815	0.8	28987.442 ^D	-7	2.831	6.425	...	
764	$b^3P-u^3D^\circ$ (376)	2-3	3.35	3432.7955	3431.8116	0.0	29130.777 ^A	0	2.831	6.443	-1.17 ^a	
		0-1	2.80	3394.3516	3393.3775	-0.3	29460.708 ^C	3	2.858	6.510	...	
		1-1	2.62	3382.3048	3381.3339	0.1	29565.638 ^C	-1	2.845	6.510	-1.86 ^a	
765	$b^3P-^2P4p^1P^\circ$	1-1	2.98	3420.6747	3419.6939	0.5	29233.999 ^B	-4	2.845	6.469	...	
766	$b^3P-t^3D^\circ$ (377)	2-3	2.97	3404.2666	3403.2900	0.2	29374.903 ^B	-2	2.831	6.473	-1.32 ^a	
		1-2	2.48	3362.9147	3361.9487	-0.9	29736.110 ^C	8	2.845	6.532	...	
		0-1	3.10	3355.0233	3354.0594	-0.1	29806.052 ^B	1	2.858	6.553	-1.17 ^a	
		2-2	2.41	3350.6872	3349.7243	-3.1	29844.624 ^D	28	2.831	6.532	...	
		1-1	3.11	3343.2528	3342.2918	-0.6	29910.990 ^B	5	2.845	6.553	-1.32 ^a	
767	$b^3P-^4F5p^3G^\circ$	2-3	0	3172.681	3171.764	0.0	31519.08 ^D	0	2.831	6.739	...	
768	$b^3P-v^3P^\circ$ (379)	1-2	3.18	3336.7278	3335.7685	-0.6	29969.481 ^B	5	2.845	6.561	-1.20 ^a	
		2-2	3.64	3324.6927	3323.7364	0.2	30077.968 ^B	-2	2.831	6.561	-0.60 ^b	
		1-1	2.56	3302.1700	3301.2195	0.7	30283.117 ^C	-6	2.845	6.599	...	

TABLE 2—*Continued*

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		2-1	2.59	3290.3827	3289.4351	1.4	30391.602 ^C	-13	2.831	6.599	...	
769	$b^3P-^4F5p^5G^\circ$	2-3	d0?	3195.259	3194.335	-4.1	31296.37 ^D	40	2.831	6.712	...	
770	$b^3P-^4F5p^3F^\circ$	2-3	d0?	3179.576	3178.657	-2.0	31450.73 ^D	20	2.831	6.731	...	
		1-2	d0?	3148.661	3147.750	3.0	31759.53 ^D	-30	2.845	6.782	...	
		2-2	1	3137.930	3137.021	-6.9	31868.14 ^D	70	2.831	6.782	...	I
771	$b^3P-^4F5p^5D^\circ$	0-1	d0	3169.437	3168.521	4.0	31551.34 ^D	-40	2.858	6.770	...	
		1-2	1	3166.178	3165.262	1.0	31583.82 ^D	-10	2.845	6.761	...	
		2-2	2	3155.347	3154.433	8.0	31692.24 ^D	-80	2.831	6.761	...	I
772	$b^3P-Dsp3^5F^\circ$	2-1	2.38	3240.5937	3239.6588	-0.2	30858.543 ^D	2	2.831	6.657	...	
		2-3	1	3236.747	3235.813	5.0	30895.22 ^D	-48	2.831	6.662	...	
773	$b^3P-x^1F^\circ$	2-3	d0?	3233.636	3232.703	1.0	30924.94 ^D	-10	2.831	6.666	...	
774	$b^3P-x^3S^\circ$	0-1	2.52	3251.3345	3250.3969	0.1	30756.602 ^C	-1	2.858	6.671	...	
		1-1	d0?	3240.279	3239.344	0.0	30861.54 ^D	0	2.845	6.671	...	
		2-1	2.99	3228.9273	3227.9953	-0.7	30970.038 ^B	7	2.831	6.671	...	
775	$b^3P-^4F5p^3D^\circ$	2-3	2.34	3225.8552	3224.9240	-0.7	30999.532 ^D	7	2.831	6.675	...	
		1-2	2.26	3185.1221	3184.2012	-1.1	31395.971 ^C	11	2.845	6.737	...	
		2-2	d0?	3174.157	3173.239	2.0	31504.43 ^D	-20	2.831	6.737	...	
		1-1	1	3138.691	3137.781	1.0	31860.42 ^D	-10	2.845	6.795	...	
		2-1	d0?	3128.031	3127.125	-5.9	31968.99 ^D	60	2.831	6.795	...	
776	$b^3P-Dsp3^5D^\circ$	0-1	4	3233.729	3232.796	-5.2	30924.05 ^D	50	2.858	6.692	...	
		1-2	d0?	3229.329	3228.396	1.0	30966.19 ^D	-10	2.845	6.684	...	
		1-1	2	3222.801	3221.871	1.0	31028.91 ^D	-10	2.845	6.692	...	
		2-1	3	3211.571	3210.643	0.0	31137.41 ^D	0	2.831	6.692	...	
777	$b^3P-t^5P^\circ$	2-3	1	3208.583	3207.656	-1.0	31166.41 ^D	10	2.831	6.696	...	
		2-2	0	3197.550	3196.626	-3.1	31273.94 ^D	30	2.831	6.709	...	II
		1-1	d0?	3192.422	3191.499	6.1	31324.18 ^D	-60	2.845	6.729	...	
		2-1	1	3181.399	3180.479	2.0	31432.71 ^D	-20	2.831	6.729	...	
778	$b^3P-s^3G^\circ$	2-3	0	3034.679	3033.796	-2.8	32952.41 ^D	30	2.831	6.917	...	
779	$b^3P-w^1D^\circ$ (382a)	1-2	0	3048.091	3047.205	0.0	32807.42 ^D	0	2.845	6.912	...	II
		2-2	d0?	3038.045	3037.162	0.0	32915.90 ^D	0	2.831	6.912	...	
780	$b^3P-s^6D_{4.5}4f[2.5]^\circ$	2-3	0	2946.462	2945.601	-6.1	33939.01 ^D	70	2.831	7.039	...	
	$b^3P-s^6D_{4.5}4f[1.5]^\circ$	2-2	3	2945.386	2944.525	-2.6	33951.41 ^D	30	2.831	7.041	...	
781	$b^3P-s^6D6p^5P^\circ$	2-3	d1	2938.325	2937.465	1.7	34033.00 ^D	-20	2.831	7.051	...	
782	$b^3P-t^3F^\circ$ (UV177)	2-3	1.85	2873.3417	2872.4986	-0.6	34802.683 ^D	7	2.831	7.146	...	
783	$b^3P-Psp1^3D^\circ$	2-3	2.18	2879.6052	2878.7606	-0.2	34726.983 ^C	3	2.831	7.137	...	
784	$b^3P-s^4D5p^5D^\circ$	2-3	d1	2841.295	2840.460	-2.4	35195.22 ^D	30	2.831	7.195	...	
		1-2	2.14	2826.1542	2825.3228	-1.9	35383.773 ^D	24	2.845	7.232	...	
		0-1	1	2819.426	2818.596	3.2	35468.21 ^D	-40	2.858	7.255	...	
		2-2	2	2817.520	2816.690	2.4	35492.21 ^D	-30	2.831	7.232	...	
785	$b^3P-s^4D5p^3F^\circ$	1-2	2	2776.610	2775.791	2.3	36015.14 ^D	-30	2.845	7.310	...	
		2-2	d0*	2768.266	2767.449	-0.8	36123.69 ^D	10	2.831	7.310	...	
		2-3	1	2758.527	2757.712	5.3	36251.23 ^D	-70	2.831	7.326	...	
786	$b^3P-s^4D5p^3P^\circ$	1-2	1.74	2852.8528	2852.0148	0.8	35052.632 ^C	-10	2.845	7.191	...	
		2-2	1.74	2844.0500	2843.2141	0.8	35161.126 ^C	-10	2.831	7.191	...	
		1-1	d0?	2747.483	2746.671	2.3	36396.95 ^D	-30	2.845	7.357	...	
787	$b^3P-s^4D5p^3D^\circ$	1-2	1	2842.087	2841.252	1.6	35185.41 ^D	-20	2.845	7.207	...	
		0-1	d0	2829.413	2828.581	7.2	35343.02 ^D	-90	2.858	7.240	...	
		1-1	d3	2821.022	2820.192	-7.2	35448.14 ^D	90	2.845	7.240	...	
		2-1	d0?	2812.425	2811.597	2.4	35556.50 ^D	-30	2.831	7.240	...	
788	$b^3P-s^4D5p^5F^\circ$	2-3	d0?	2784.020	2783.199	1.6	35919.28 ^D	-20	2.831	7.285	...	
		2-2	d0	2772.552	2771.734	-3.8	36067.85 ^D	50	2.831	7.303	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
789	$b^3P-Psp1^3S^o$	0-1	d0	2743.568	2742.756	-0.8	36448.89 ^D	10	2.858	7.377	...	
		1-1	1.63	2735.6910	2734.8816	-1.9	36553.836 ^D	26	2.845	7.377	...	
		2-1	1.67	2727.5944	2726.7869	-3.0	36662.343 ^C	40	2.831	7.377	...	
790	$b^3P-Fsp1^3F^o$	2-3	1	2678.515	2677.719	0.7	37334.12 ^D	-10	2.831	7.460	...	
791	$b^3P-Fsp1^3D^o$	2-3	1.41	2633.7723	2632.9873	-0.8	37968.355 ^C	11	2.831	7.539	...	
792	$z^7P^o-e^7D$ (383)	2-3	4.20	5283.2601	5281.7904	0.3	18927.707 ^A	-1	3.038	5.385	-0.83 ^a	
		3-4	4.71	5268.0211	5266.5554	0.8	18982.460 ^A	-3	2.998	5.351	-0.39 ^a	
		4-5	5.09	5234.3971	5232.9403	0.3	19104.397 ^A	-1	2.940	5.308	-0.06 ^a	
		2-2	4.49	5228.3175	5226.8623	0.5	19126.612 ^A	-2	3.038	5.410	-0.56 ^a	
		3-3	4.68	5193.7902	5192.3442	0.3	19253.762 ^A	-1	2.998	5.385	-0.42 ^a	
		2-1	4.50	5192.9007	5191.4550	0.3	19257.060 ^A	-1	3.038	5.426	-0.55 ^a	
		4-4	4.66	5140.8947	5139.4628	0.3	19451.867 ^A	-1	2.940	5.351	-0.51 ^a	
		3-2	4.35	5140.6833	5139.2515	0.5	19452.667 ^A	-2	2.998	5.410	-0.74 ^a	
		4-3	4.11	5070.1789	5068.7658	0.0	19723.170 ^A	0	2.940	5.385	-1.04 ^a	
793	$z^7P^o-e^5D$ (384)	3-4	2.18	4878.9686	4877.6064	1.9	20496.135 ^B	-8	2.998	5.539	-3.15 ^b	
		2-3	1.78	4865.1379	4863.7793	2.1	20554.402 ^C	-9	3.038	5.587	...	
		2-2	2.00	4801.4705	4800.1288	0.7	20826.953 ^D	-3	3.038	5.620	-2.74 ^b	II
		3-3	2.57	4789.1654	4787.8269	0.0	20880.465 ^A	0	2.998	5.587	-2.60 ^a	
		4-4	2.84	4769.7298	4768.3965	0.0	20965.548 ^A	0	2.940	5.539	...	
		3-2	1.95	4727.4591	4726.1370	0.0	21153.012 ^B	0	2.998	5.620	-3.25 ^b	
		4-3	2.11	4683.8710	4682.5605	2.2	21349.862 ^B	-10	2.940	5.587	-3.13 ^b	
794	$z^7P^o-e^7F$ (385)	2-3	3.07	3753.4810	3752.4145	-1.0	26641.936 ^B	7	3.038	6.341	...	
		2-1	3.79	3745.1670	3744.1026	0.0	26701.079 ^D	0	3.038	6.349	-0.70 ^a	I
		2-2	4.07	3727.9864	3726.9265	0.1	26824.132 ^A	-1	3.038	6.364	-0.32 ^a	
		3-3	4.13	3708.0992	3707.0444	-1.5	26967.995 ^A	11	2.998	6.341	...	
		3-4	4.50	3702.1395	3701.0863	0.1	27011.408 ^A	-1	2.998	6.347	0.07 ^a	
		4-5	4.38	3687.0464	3685.9971	0.1	27121.980 ^A	-1	2.940	6.302	-0.13 ^a	
		3-2	3.35	3683.2159	3682.1676	0.1	27150.187 ^A	-1	2.998	6.364	-0.98 ^a	
		4-3	3.66	3644.6617	3643.6233	0.3	27437.389 ^D	-2	2.940	6.341	...	II
		4-4	3.64	3638.9044	3637.8675	2.1	27480.799 ^A	-16	2.940	6.347	-1.01 ^b	
795	$z^7P^o-f^7D$ (386)	2-2	3.13	3774.7636	3773.6916	0.1	26491.725 ^B	-1	3.038	6.323	-1.33 ^a	
		2-1	3.27	3767.7294	3766.6592	0.7	26541.184 ^B	-5	3.038	6.329	-1.31 ^a	
		3-4	3.26	3755.5673	3754.5002	-0.3	26627.136 ^B	2	2.998	6.299	-1.34 ^a	
		4-5	4.07	3750.0302	3748.9646	-0.1	26666.452 ^A	1	2.940	6.246	-0.46 ^a	
		3-3	3.97	3747.9921	3746.9270	0.0	26680.953 ^A	0	2.998	6.306	-0.46 ^a	
		3-2	3.81	3728.8693	3727.8092	0.1	26817.781 ^A	-1	2.998	6.323	-0.70 ^a	
		4-4	4.32	3690.5084	3689.4582	0.1	27096.538 ^A	-1	2.940	6.299	-0.17 ^a	
796	$z^7P^o-f^5D$ (387)	3-4	3.21	3810.6457	3809.5643	0.1	26242.272 ^B	-1	2.998	6.251	-1.55 ^a	
		3-3	3.51	3794.5578	3793.4806	0.3	26353.532 ^A	-2	2.998	6.265	-0.92 ^a	
		2-1	2.97	3791.7311	3790.6547	0.7	26373.178 ^B	-5	3.038	6.308	-1.55 ^a	
		3-2	3.51	3771.0584	3769.9874	0.4	26517.754 ^A	-3	2.998	6.286	...	
		4-4	3.84	3743.6805	3742.6166	-0.1	26711.681 ^A	1	2.940	6.251	-0.89 ^a	
		4-3	3.89	3728.1524	3727.0924	0.1	26822.938 ^B	-1	2.940	6.265	-0.60 ^a	
797	$z^7P^o-e^7P$ (388)	2-2	3.06	3794.4305	3793.3534	-1.0	26354.416 ^B	7	3.038	6.306	...	
		3-3	3.07	3783.5233	3782.4490	1.0	26430.391 ^B	-7	2.998	6.275	-1.75 ^a	
		3-2	3.07	3748.0613	3746.9962	0.4	26680.460 ^B	-3	2.998	6.306	...	
		4-4	4.24	3736.3859	3735.3238	0.0	26763.831 ^A	0	2.940	6.258	-0.29 ^a	
		4-3	4.28	3717.4993	3716.4422	0.0	26899.803 ^A	0	2.940	6.275	-0.30 ^a	
798	$z^7P^o-e^5G$ (389)	2-3	2.70	3743.6200	3742.5560	-2.2	26712.113 ^C	16	3.038	6.350	...	
		3-4	3.37	3731.5212	3730.4604	-1.0	26798.722 ^A	7	2.998	6.320	-1.24 ^a	
		2-2	3.69	3722.5612	3721.5027	0.1	26863.225 ^A	-1	3.038	6.369	-0.70 ^a	
		4-5	3.72	3704.7447	3703.6909	0.0	26992.413 ^A	0	2.940	6.286	-0.85 ^a	
		3-3	3.95	3698.4778	3697.4255	0.1	27038.151 ^A	-1	2.998	6.350	-0.56 ^a	
		3-2	2.84	3677.9194	3676.8725	-0.4	27189.285 ^B	3	2.998	6.369	-1.64 ^b	
		4-4	3.19	3667.2858	3666.2416	-0.1	27268.123 ^D	1	2.940	6.320	...	I
		4-3	3.67	3635.3637	3634.3278	-0.8	27507.564 ^A	6	2.940	6.350	-0.84 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
799	$z^7P^o - e^7G$ (390)	3-4	2.90	3682.6922	3681.6440	0.0	27154.048 ^B	0	2.998	6.365	-1.52 ^a	
		3-3	3.00	3665.7351	3664.6913	-0.5	27279.658 ^B	4	2.998	6.380	-1.91 ^a	
		4-5	3.45	3634.1047	3633.0691	0.1	27517.094 ^B	-1	2.940	6.351	-1.11 ^a	
800	$z^7P^o - f^5F$ (391)	2-3	3.06	3690.4192	3689.3690	-1.1	27097.193 ^B	8	3.038	6.398	-1.43 ^a	
		3-4	3.43	3665.5811	3664.5374	0.3	27280.804 ^A	-2	2.998	6.380	-1.07 ^a	
801	$z^7P^o - e^7S$ (394)	2-3	4.49	3695.0574	3694.0060	0.0	27063.179 ^A	0	3.038	6.394	0.08 ^a	
		3-3	3.92	3651.0696	3650.0296	0.0	27389.234 ^A	0	2.998	6.394	-0.50 ^a	
		4-3	3.27	3589.5505	3588.5264	-0.1	27858.641 ^B	1	2.940	6.394	-1.01 ^a	
802	$z^7P^o - e^5P$ (395)	2-3	3.21	3658.9405	3657.8985	0.4	27330.316 ^B	-3	3.038	6.427	-1.34 ^a	
		3-3	3.03	3615.8033	3614.7724	0.4	27656.372 ^B	-3	2.998	6.427	-1.44 ^a	
803	$z^7P^o - g^7D$ (396)	2-3	2.40	3344.7219	3343.7605	0.9	29897.852 ^C	-8	3.038	6.745	...	
		3-4	2.87	3339.5808	3338.6208	0.2	29943.878 ^B	-2	2.998	6.710	...	
		4-5	3.19	3323.4289	3322.4729	-0.7	30089.406 ^B	6	2.940	6.670	-0.83 ^a	
		2-2	2.68	3321.7293	3320.7738	-1.1	30104.801 ^C	10	3.038	6.771	...	
		3-3	2.81	3308.6383	3307.6862	0.1	30223.914 ^B	-1	2.998	6.745	...	
		2-1	2.63	3306.8038	3305.8521	-0.3	30240.681 ^C	3	3.038	6.788	...	
		4-4	2.76	3288.0366	3287.0897	-0.2	30413.287 ^B	2	2.940	6.710	...	
		3-2	2.51	3286.1398	3285.1933	0.3	30430.842 ^C	-3	2.998	6.771	...	
804	$z^7P^o - ^4F6s^5F$	3-4	d0?	3092.586	3091.688	-3.8	32335.40 ^D	40	2.998	7.007	...	
		4-5	0?	3086.187	3085.291	-1.0	32402.44 ^D	10	2.940	6.957	...	
		4-4	d0?	3048.341	3047.454	2.8	32804.73 ^D	-30	2.940	7.007	...	
		2-3	1	3029.956	3029.074	-2.8	33003.78 ^D	30	3.038	7.130	...	
805	$z^7P^o - s^6D5d^5D$	3-4	0?	3122.396	3121.491	0.0	32026.69 ^D	0	2.998	6.969	...	
		3-3	0?	3109.819	3108.917	4.8	32156.21 ^D	-50	2.998	6.985	...	
		3-2	d0	3096.114	3095.216	3.8	32298.55 ^D	-40	2.998	7.002	...	
806	$z^7P^o - s^6D5d^5G$	3-4	0	3077.653	3076.759	0.0	32492.29 ^D	0	2.998	7.026	...	
		2-3	0	3072.320	3071.428	0.0	32548.69 ^D	0	3.038	7.074	...	
		4-5	0	3045.141	3044.256	-1.9	32839.20 ^D	20	2.940	7.011	...	
		3-3	5	3041.841	3040.956	-6.5	32874.83 ^D	70	2.998	7.074	...	I
807	$z^7P^o - s^6D5d^7F$	2-3	2	3069.618	3068.727	1.9	32577.34 ^D	-20	3.038	7.077	...	
		2-1	1	3057.469	3056.580	2.8	32706.79 ^D	-30	3.038	7.093	...	
		3-3	3	3039.197	3038.313	-0.9	32903.43 ^D	10	2.998	7.077	...	
		3-4	3	3018.740	3017.861	4.6	33126.40 ^D	-50	2.998	7.105	...	
		4-5	2.57	3018.2965	3017.4176	0.3	33131.271 ^C	-3	2.940	7.047	...	
808	$z^7P^o - s^6D5d^7D$ (398*)	2-1	0	3077.171	3076.277	5.7	32497.38 ^D	-60	3.038	7.067	...	
		2-3	0	3070.926	3070.034	-0.9	32563.47 ^D	10	3.038	7.076	...	II
		3-2	2.36	3061.6664	3060.7766	-0.5	32661.952 ^D	5	2.998	7.047	...	
		4-5	2.41	3056.1819	3055.2935	-0.2	32720.565 ^D	2	2.940	6.996	...	
		4-4	2.66	3054.3162	3053.4283	0.7	32740.552 ^B	-7	2.940	6.999	...	
		3-3	0?	3040.483	3039.599	0.0	32889.51 ^D	0	2.998	7.076	...	II
809	$z^7P^o - s^6D5d^7P$	3-3	3	3097.776	3096.877	-5.8	32281.22 ^D	60	2.998	7.000	...	I
		3-4	3	3061.516	3060.626	4.7	32663.56 ^D	-50	2.998	7.048	...	
		4-3	1	3053.379	3052.491	-3.7	32750.60 ^D	40	2.940	7.000	...	
		2-2	2.32	3050.2398	3049.3528	0.9	32784.308 ^D	-10	3.038	7.103	...	
		4-4	3	3018.130	3017.251	-7.3	33133.10 ^D	80	2.940	7.048	...	II
810	$z^7P^o - s^6D5d^7G$	2-1	2	3047.530	3046.644	-2.8	32813.46 ^D	30	3.038	7.107	...	
		2-3	3	3043.726	3042.841	-1.9	32854.47 ^D	20	3.038	7.112	...	
		2-2	1	3035.475	3034.592	-1.8	32943.77 ^D	20	3.038	7.123	...	
		3-4	2	3032.595	3031.712	-5.5	32975.06 ^D	60	2.998	7.086	...	
		3-3	2*	3013.811	3012.933	-6.4	33180.58 ^D	70	2.998	7.112	...	I
		4-5	3	2992.636	2991.763	0.0	33415.36 ^D	0	2.940	7.083	...	
		4-4	0?	2990.034	2989.162	-3.6	33444.44 ^D	40	2.940	7.086	...	
		4-3	0	2971.784	2970.917	7.1	33649.82 ^D	-80	2.940	7.112	...	
811	$z^7P^o - s^6D5d^5S$	3-2	3	3073.186	3072.293	1.9	32539.52 ^D	-20	2.998	7.032	...	
812	$z^7P^o - s^6D5d^5F$	2-3	1	3103.663	3102.763	-1.0	32219.99 ^D	10	3.038	7.033	...	
		2-2	0	3082.118	3081.223	6.6	32445.22 ^D	-70	3.038	7.061	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		3-3	1	3072.571	3071.679	0.0	32546.03 ^D	0	2.998	7.033	...	
		2-1	3	3070.224	3069.332	0.9	32570.91 ^D	-10	3.038	7.077	...	
		3-4	2.54	3035.4198	3034.5366	1.2	32944.372 ^D	-13	2.998	7.082	...	
		4-5	3	3025.674	3024.793	-6.4	33050.49 ^D	70	2.940	7.037	...	
		4-4	d0	2992.776	2991.904	0.0	33413.79 ^D	0	2.940	7.082	...	
813	$z^7P^o-s^4F6s^3F$	3-4	3	3064.911	3064.020	1.9	32627.38 ^D	-20	2.998	7.043	...	
		2-3	0	3056.990	3056.101	-0.9	32711.92 ^D	10	3.038	7.094	...	I
814	$z^7P^o-s^6D5d^5P$	2-2	0	3039.858	3038.974	-4.6	32896.27 ^D	50	3.038	7.117	...	
		3-3	3	3032.212	3031.330	4.6	32979.22 ^D	-50	2.998	7.087	...	
		4-3	0	2989.655	2988.783	0.0	33448.68 ^D	0	2.940	7.087	...	
815	$z^7P^o-s^6D5d^7S$	2-3	2.33	3036.6192	3035.7357	-1.2	32931.360 ^D	13	3.038	7.121	...	
		3-3	1	3006.842	3005.966	-6.3	33257.48 ^D	70	2.998	7.121	...	
		4-3	2.53	2964.9987	2964.1330	-1.8	33726.828 ^D	20	2.940	7.121	...	II
816	$z^7P^o-s^4D4d^5F$	3-4	3	2946.555	2945.694	6.1	33937.94 ^D	-70	2.998	7.206	...	I
		3-2	1	2912.768	2911.916	-5.9	34331.60 ^D	70	2.998	7.254	...	
		4-4	d0?	2906.356	2905.505	5.1	34407.35 ^D	-60	2.940	7.206	...	
817	$z^7P^o-i^5D$	3-2	d0	2959.166	2958.301	-2.6	33793.31 ^D	30	2.998	7.188	...	
		4-4	0	2942.384	2941.524	-0.9	33986.05 ^D	10	2.940	7.153	...	
		4-3	6	2932.339	2931.481	0.9	34102.47 ^D	-10	2.940	7.168	...	II
818	$z^7P^o-s^6D7s^7D$	2-3	4	2943.485	2942.625	4.3	33973.33 ^D	-50	3.038	7.250	...	I
		3-4	1	2939.710	2938.851	7.8	34016.96 ^D	-90	2.998	7.215	...	II
		2-2	d1	2925.952	2925.096	-1.7	34176.91 ^D	20	3.038	7.276	...	
		4-5	2	2925.211	2924.355	1.7	34185.57 ^D	-20	2.940	7.178	...	
		3-3	d0?	2915.503	2914.649	3.4	34299.40 ^D	-40	2.998	7.250	...	
		3-2	0	2898.306	2897.457	2.5	34502.91 ^D	-30	2.998	7.276	...	
		4-3	3	2876.145	2875.301	7.4	34768.76 ^D	-90	2.940	7.250	...	I
819	$z^7P^o-s^4D4d^5P$	3-3	d0?	2915.367	2914.513	0.0	34301.00 ^D	0	2.998	7.251	...	
820	$z^7P^o-s^6D7s^5D$	3-4	1	2929.075	2928.218	3.4	34140.47 ^D	-40	2.998	7.231	...	
		3-3	2	2891.707	2890.859	-4.2	34581.65 ^D	50	2.998	7.285	...	I
		4-4	1	2889.344	2888.497	0.0	34609.93 ^D	0	2.940	7.231	...	
821	$z^7P^o-s^4F5d^5F$	3-4	d0?	2906.032	2905.181	2.5	34411.18 ^D	-30	2.998	7.264	...	II
		4-5	d0?	2866.995	2866.153	0.8	34879.73 ^D	-10	2.940	7.264	...	I
822	$z^7P^o-s^4D4d^3D$	3-2	d0?	2873.645	2872.802	-4.1	34799.01 ^D	50	2.998	7.312	...	
		4-3	d0?	2859.517	2858.677	-5.7	34970.94 ^D	70	2.940	7.275	...	
823	$z^7P^o-s^6D_{4,5}6d$ [2.5]	3-3	d0?	2854.179	2853.340	-0.8	35036.35 ^D	10	2.998	7.342	...	
	$z^7P^o-s^6D_{4,5}6d$ [4.5]	4-5	2	2823.638	2822.808	0.0	35415.30 ^D	0	2.940	7.331	...	
	$z^7P^o-s^6D_{4,5}6d$ [4.5]	4-4	d0?	2823.093	2822.262	0.8	35422.14 ^D	-10	2.940	7.331	...	
	$z^7P^o-s^6D_{4,5}6d$ [2.5]	4-3	1.80	2816.4445	2815.6154	-1.1	35505.759 ^C	14	2.940	7.342	...	
824	$z^7P^o-s^4D4d^3S$	2-1	1.90	2886.1928	2885.3466	1.8	34647.720 ^D	-22	3.038	7.334	...	I
825	$z^7P^o-s^4D4d^3F$	3-4	2.34	2847.2965	2846.4599	0.4	35121.035 ^D	-5	2.998	7.352	...	
		3-3	2.45	2829.5107	2828.6784	3.9	35341.800 ^D	-49	2.998	7.380	...	II
		4-3	1	2792.414	2791.591	-3.9	35811.31 ^D	50	2.940	7.380	...	
826	$z^7P^o-s^6D_{3,5}6d$ [2.5]	3-2	2.22	2830.1977	2829.3652	3.8	35333.221 ^D	-48	2.998	7.379	...	I
	$z^7P^o-s^6D_{3,5}6d$ [4.5]	4-5	1.80	2797.0406	2796.2163	-1.3	35752.073 ^C	17	2.940	7.372	...	
	$z^7P^o-s^6D_{3,5}6d$ [3.5]	4-4	0	2796.092	2795.268	-1.6	35764.20 ^D	20	2.940	7.374	...	
	$z^7P^o-s^6D_{3,5}6d$ [3.5]	4-3	2.66	2792.6091	2791.7858	3.0	35808.807 ^D	-39	2.940	7.379	...	I
	$z^7P^o-s^6D_{3,5}6d$ [4.5]	4-4	1	2791.631	2790.808	2.3	35821.35 ^D	-30	2.940	7.381	...	
	$z^7P^o-s^6D_{3,5}6d$ [5.5]	4-5	d0?	2789.803	2788.981	3.1	35844.82 ^D	-40	2.940	7.384	...	II
827	$z^7P^o-s^5D4p^2^7F$	4-5	1	2792.327	2791.504	0.0	35812.42 ^D	0	2.940	7.380	...	
		4-4	0	2781.391	2780.571	0.8	35953.23 ^D	-10	2.940	7.397	...	
		2-2	2.16	2775.7570	2774.9379	-1.1	36026.208 ^B	14	3.038	7.505	...	
		3-2	2.09	2750.8640	2750.0509	2.6	36352.215 ^B	-34	2.998	7.505	...	
828	$z^7P^o-s^6D_{2,5}6d$ [1.5]	2-1	1	2836.074	2835.240	0.0	35260.01 ^D	0	3.038	7.410	...	
	$z^7P^o-s^6D_{2,5}6d$ [2.5]	2-3	d0?	2831.757	2830.924	-1.6	35313.77 ^D	20	3.038	7.417	...	II

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
	$z^7P^o-s^6D_{2.5}6d$ [2.5]	2-2	0	2829.921	2829.089	-1.6	35336.67 ^D	20	3.038	7.419	...	
	$z^7P^o-s^6D_{2.5}6d$ [4.5]	3-4	1.67	2813.3282	2812.4999	-3.8	35545.088 ^D	48	2.998	7.405	...	
	$z^7P^o-s^6D_{2.5}6d$ [2.5]	3-3	d0?	2805.852	2805.025	0.0	35639.80 ^D	0	2.998	7.417	...	
	$z^7P^o-s^6D_{2.5}6d$ [3.5]	3-4	2.22	2801.2920	2800.4666	-2.7	35697.814 ^B	35	2.998	7.424	...	
	$z^7P^o-s^6D_{2.5}6d$ [3.5]	3-3	2.46	2800.6655	2799.8403	3.1	35705.799 ^B	-40	2.998	7.425	...	
	$z^7P^o-s^6D_{2.5}6d$ [4.5]	4-5	2.15	2777.2167	2776.3972	-0.5	36007.273 ^C	7	2.940	7.404	...	
	$z^7P^o-s^6D_{2.5}6d$ [4.5]	4-4	2.05	2776.6633	2775.8439	-0.4	36014.450 ^C	5	2.940	7.405	...	
	$z^7P^o-s^6D_{2.5}6d$ [2.5]	4-3	1.64	2769.3750	2768.5573	-2.0	36109.231 ^C	26	2.940	7.417	...	
	$z^7P^o-s^6D_{2.5}6d$ [3.5]	4-4	1.93	2764.9359	2764.1194	-1.4	36167.204 ^C	18	2.940	7.424	...	
	$z^7P^o-s^6D_{2.5}6d$ [3.5]	4-3	2	2764.319	2763.503	-1.5	36175.27 ^D	20	2.940	7.425	...	II
829	$z^7P^o-s^6D_{1.5}6d$ [3.5]	2-3	0	2809.775	2808.947	4.7	35590.04 ^D	-60	3.038	7.451	...	
	$z^7P^o-s^6D_{1.5}6d$ [2.5]	3-2	3	2785.163	2784.342	7.8	35904.54 ^D	-100	2.998	7.449	...	I
	$z^7P^o-s^6D_{1.5}6d$ [3.5]	3-3	1.63	2784.2650	2783.4438	3.0	35916.121 ^D	-39	2.998	7.451	...	
	$z^7P^o-s^6D_{1.5}6d$ [3.5]	4-3	2*	2748.346	2747.534	3.0	36385.52 ^D	-40	2.940	7.451	...	
830	$z^7P^o-62192^e$	4-5	0	2598.660	2597.883	-6.1	38481.37 ^D	90	2.940	7.711	...	
831	$z^7P^o-62377^e$	4-4	1	2586.243	2585.470	5.4	38666.12 ^D	-80	2.940	7.734	...	II
832	$b^3G-z^3F^o$	4-4	2.02	13911.251	13907.448	0	7188.426 ^A	0	2.990	3.881	...	
		3-3	1.92	13393.509	13389.847	2	7466.303 ^A	-1	3.018	3.943	...	
		5-4	2.94	13291.463	13287.829	0	7523.626 ^A	0	2.949	3.881	-3.02 ^a	
		4-3	2.72	13010.245	13006.688	2	7686.250 ^A	-1	2.990	3.943	...	
		3-2	2.61	12828.369	12824.861	2	7795.223 ^A	-1	3.018	3.984	...	
833	$b^3G-y^5F^o$ (399)	5-5	1.26	10089.006	10086.241	-2	9911.779 ^A	2	2.949	4.178	...	
		4-4	0.85	10079.946	10077.183	9	9920.688 ^B	-9	2.990	4.220	...	
		4-3	0.90	9794.3941	9791.7090	9.6	10209.922 ^B	-10	2.990	4.256	...	
		5-4	0.85	9750.4917	9747.8185	2.9	10255.893 ^B	-3	2.949	4.220	...	
834	$b^3G-z^5G^o$ (400)	4-5	2.07	9377.6943	9375.1221	-0.9	10663.602 ^A	1	2.990	4.312	...	
		3-4	1.81	9158.7194	9156.2064	0.0	10918.557 ^A	0	3.018	4.371	...	
		5-5	3.24	9091.8993	9089.4044	0.0	10998.802 ^A	0	2.949	4.312	-1.68 ^a	
		4-4	2.90	8977.8647	8975.4007	-0.8	11138.506 ^A	1	2.990	4.371	-2.22 ^a	
		3-3	2.31	8870.8641	8868.4290	-0.8	11272.859 ^A	1	3.018	4.415	...	
		4-3	1.34	8701.0953	8698.7061	-0.8	11492.806 ^C	1	2.990	4.415	...	
835	$b^3G-z^3G^o$ (401)	4-5	1.64	8880.6816	8878.2438	-7.1	11260.397 ^C	9	2.990	4.386	...	
		3-4	1.54	8749.8273	8747.4250	-0.8	11428.797 ^D	1	3.018	4.434	...	Ne
		5-5	2.74	8623.9690	8621.6007	-0.7	11595.589 ^A	1	2.949	4.386	-2.32 ^a	
		4-4	2.85	8584.6150	8582.2574	-0.7	11648.746 ^A	1	2.990	4.434	-2.13 ^a	
		3-3	3.02	8517.4479	8515.1084	-0.7	11740.606 ^D	1	3.018	4.473	-2.07 ^a	II
		4-3	1.67	8360.8195	8358.5224	1.4	11960.550 ^D	-2	2.990	4.473	...	II
		5-4	1.56	8344.4948	8342.2020	-2.8	11983.949 ^B	4	2.949	4.434	...	
836	$b^3G-y^3F^o$ (402)	4-4	1.41	7957.1226	7954.9345	0.0	12567.357 ^A	0	2.990	4.548	-3.86 ^c	
		5-4	3.44	7750.4017	7748.2694	-0.6	12902.557 ^A	1	2.949	4.548	-1.75 ^a	
		4-3	3.29	7666.4029	7664.2933	-0.6	13043.927 ^A	1	2.990	4.607	-1.68 ^a	
		3-2	3.12	7585.8761	7583.7882	-0.6	13182.393 ^A	1	3.018	4.652	-1.89 ^a	
837	$b^3G-z^5H^o$ (407)	3-3	2.36	5266.7093	5265.2439	2.2	18987.188 ^B	-8	3.018	5.372	...	
		4-3	2.61	5206.3999	5204.9506	3.5	19207.130 ^D	-13	2.990	5.372	...	
		5-4	2.26	5174.5661	5173.1252	1.3	19325.292 ^B	-5	2.949	5.345	...	
838	$b^3G-z^5I^o$	4-4	2.27	5174.9447	5173.5038	1.6	19323.878 ^C	-6	2.990	5.386	...	
		5-5	2.14	5082.2044	5080.7881	0.0	19676.501 ^B	0	2.949	5.388	...	
839	$b^3G-v^5D^o$	4-4	3.09	5024.1900	5022.7891	-0.3	19903.706 ^D	1	2.990	5.458	-2.20 ^a	II
840	$b^3G-x^3D^o$ (408)	4-3	1.78	4738.9192	4737.5941	0.7	21101.858 ^D	-3	2.990	5.606	...	II
841	$b^3G-y^3G^o$ (409)	3-4	2.85	4741.6660	4740.3401	0.0	21089.634 ^A	0	3.018	5.632	-2.63 ^a	
		4-5	2.90	4722.3214	4721.0006	0.0	21176.026 ^A	0	2.990	5.616	-2.80 ^a	
		3-3	3.95	4711.6012	4710.2833	-0.2	21224.207 ^A	1	3.018	5.649	-1.61 ^a	
		4-4	4.05	4692.7246	4691.4117	0.0	21309.582 ^A	0	2.990	5.632	-1.52 ^a	
		4-3	3.04	4663.2754	4661.9703	-0.4	21444.155 ^A	2	2.990	5.649	-2.50 ^a	
		5-5	4.21	4648.7355	4647.4342	0.0	21511.226 ^A	0	2.949	5.616	-1.35 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
842	$b^3G-x^5G^\circ$ (410)	5-4	3.22	4620.0514	4618.7577	0.2	21644.781 ^A	-1	2.949	5.632	-2.41 ^a	II
		3-3	1.95	4635.0535	4633.7558	0.9	21574.724 ^D	-4	3.018	5.692	-3.03 ^b	
		4-4	2.00	4605.2387	4603.9489	0.4	21714.401 ^B	-2	2.990	5.682	-2.84 ^b	
		4-3	1.85	4588.2776	4586.9923	1.1	21794.671 ^C	-5	2.990	5.692	...	
843	$b^3G-z^3I^\circ$ (411)	5-4	1.80	4535.2280	4533.9567	-1.2	22049.608 ^C	6	2.949	5.682	...	
		4-5	2.16	4541.9453	4540.6722	0.4	22016.998 ^B	-2	2.990	5.720	...	
844	$b^3G-u^5D^\circ$ (412)	5-6	2.38	4495.7257	4494.4648	0.0	22243.350 ^B	0	2.949	5.706	...	
		4-4	2.47	4424.3835	4423.1415	0.4	22602.019 ^B	-2	2.990	5.792	-2.51 ^b	
845	$b^3G-x^3F^\circ$ (413)	4-3	2.14	4419.6604	4418.4196	0.0	22626.173 ^C	0	2.990	5.795	...	
		5-4	3.27	4359.7242	4358.4991	-0.2	22937.231 ^A	1	2.949	5.792	-1.68 ^a	
		4-4	2.40	4391.6814	4390.4480	0.0	22770.322 ^B	0	2.990	5.813	-2.50 ^b	
		3-2	3.18	4374.7896	4373.5607	0.0	22858.242 ^A	0	3.018	5.851	-1.83 ^a	
846	$b^3G-z^3H^\circ$ (414)	4-3	3.37	4352.7670	4351.5439	0.0	22973.892 ^A	0	2.990	5.839	-1.73 ^a	
		5-4	3.08	4327.9699	4326.7533	0.0	23105.521 ^A	0	2.949	5.813	-1.93 ^a	
		3-4	3.74	4392.1841	4390.9505	0.0	22767.716 ^A	0	3.018	5.840	-1.52 ^a	
		4-5	3.96	4368.8059	4367.5785	0.0	22889.550 ^A	0	2.990	5.828	-1.31 ^a	
		4-4	3.03	4350.1591	4348.9366	-0.2	22987.665 ^A	1	2.990	5.840	-2.14 ^a	
		5-6	4.02	4310.5866	4309.3745	0.0	23198.699 ^A	0	2.949	5.825	-1.19 ^a	
847	$b^3G-w^3D^\circ$ (415)	5-5	3.19	4305.7516	4304.5408	0.2	23224.749 ^A	-1	2.949	5.828	-2.03 ^a	
		5-4	2.72	4287.6403	4286.4342	2.2	23322.852 ^B	-12	2.949	5.840	-2.44 ^b	
		3-2	2.32	4386.4817	4385.2496	0.4	22797.314 ^B	-2	3.018	5.844	...	
		4-3	2.72	4367.1236	4365.8967	0.0	22898.367 ^B	0	2.990	5.829	-2.25 ^a	
848	$b^3G-w^5G^\circ$ (416)	3-4	2.70	4300.8381	4299.6286	-0.6	23251.282 ^B	3	3.018	5.900	...	
		4-5	3.25	4291.5860	4290.3789	-0.4	23301.409 ^A	2	2.990	5.879	-1.72 ^a	
		4-4	2.18	4260.5348	4259.3358	-0.7	23471.232 ^C	4	2.990	5.900	...	
		3-2	2.95	4256.6983	4255.5004	-0.2	23492.386 ^B	1	3.018	5.930	-2.01 ^a	
		4-3	2.53	4241.8881	4240.6940	1.8	23574.408 ^B	-10	2.990	5.913	...	
		5-6	3.80	4240.9262	4239.7324	0.2	23579.755 ^A	-1	2.949	5.872	-1.53 ^a	
849	$b^3G-z^1G^\circ$ (417)	5-4	2.20	4200.5444	4199.3612	-1.9	23806.438 ^D	11	2.949	5.900	...	
		3-4	2.61	4326.3913	4325.1750	-0.7	23113.952 ^B	4	3.018	5.883	...	
		4-4	2.73	4285.6109	4284.4054	0.2	23333.896 ^D	-1	2.990	5.883	-2.60 ^b	
		5-4	2.51	4224.9184	4223.7289	0.2	23669.096 ^B	-1	2.949	5.883	-2.91 ^b	
850	$b^3G-v^5F^\circ$ (418)	3-4	2.40	4238.8641	4237.6708	0.5	23591.226 ^C	-3	3.018	5.942	-2.37 ^b	
		4-4	2.34	4199.7110	4198.5281	2.5	23811.162 ^D	-14	2.990	5.942	...	
		5-5	3.01	4197.7135	4196.5311	0.0	23822.493 ^A	0	2.949	5.902	-2.11 ^b	
		4-3	2.97	4165.9559	4164.7818	2.3	24004.095 ^D	-13	2.990	5.966	...	
851	$b^3G-x^3G^\circ$ (419)	3-4	2.99	4260.1505	4258.9517	0.0	23473.349 ^A	0	3.018	5.928	-2.24 ^a	
		3-3	2.84	4256.1430	4254.9453	0.2	23495.451 ^B	-1	3.018	5.930	-2.57 ^a	
		4-4	3.24	4220.6028	4219.4144	0.0	23693.298 ^A	0	2.990	5.928	-1.90 ^a	
		4-3	2.38	4216.6651	4215.4777	-4.3	23715.424 ^C	24	2.990	5.930	...	
		4-5	3.48	4216.6107	4215.4233	-0.2	23715.730 ^A	1	2.990	5.931	-1.76 ^a	
		5-4	2.46	4161.7251	4160.5521	0.0	24028.497 ^B	0	2.949	5.928	-2.88 ^b	
852	$b^3G-y^5H^\circ$	5-5	3.39	4157.8434	4156.6714	-0.2	24050.930 ^A	1	2.949	5.931	-1.82 ^a	
		3-4	3.04	4162.6577	4161.4844	0.0	24023.114 ^A	0	3.018	5.996	-2.15 ^a	
		4-5	3.51	4147.2334	4146.0642	0.0	24112.460 ^A	0	2.990	5.980	-1.97 ^a	
		3-3	3.38	4143.0314	4141.8633	0.2	24136.916 ^A	-1	3.018	6.010	-1.93 ^a	
		4-4	3.53	4124.8917	4123.7283	0.0	24243.061 ^A	0	2.990	5.996	-1.86 ^a	
		4-3	2.31	4105.6182	4104.4599	-0.5	24356.868 ^C	3	2.990	6.010	...	
853	$b^3G-z^1H^\circ$ (423)	5-5	3.36	4090.3712	4089.2169	0.0	24447.659 ^A	0	2.949	5.980	-2.02 ^a	
		5-4	2.16	4068.6358	4067.4872	-0.3	24578.263 ^C	2	2.949	5.996	-3.13 ^b	
		4-5	3.81	4121.3689	4120.2065	0.0	24263.783 ^A	0	2.990	5.998	-1.27 ^a	
		4-4	3.39	4067.7336	4066.5852	0.2	24583.714 ^A	-1	2.990	6.038	-1.58 ^a	
854	$b^3G-y^1G^\circ$ (424)	4-4	3.39	4067.7336	4066.5852	0.2	24583.714 ^A	-1	2.990	6.038	-1.58 ^a	
855	$b^3G-w^3F^\circ$ (426)	3-3	2.51	4015.3999	4014.2652	-0.3	24904.120 ^B	2	3.018	6.105	...	
		4-4	3.17	4001.5883	4000.4572	-0.3	24990.077 ^A	2	2.990	6.089	-1.66 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
856	$b^3G-v^3D^o$ (427)	3-3	2.42	4032.8672	4031.7280	0.2	24796.254 ^C	-1	3.018	6.092	...	
857	$b^3G-y^3H^o$ (429)	4-4	4.05	3905.0038	3903.8979	0.0	25608.170 ^A	0	2.990	6.165	-0.81 ^a	
		5-6	3.63	3898.5529	3897.4487	-0.2	25650.543 ^A	1	2.949	6.129	-1.28 ^a	
		5-5	4.01	3872.8455	3871.7480	-0.3	25820.808 ^A	2	2.949	6.150	-0.84 ^a	
		5-4	2.83	3854.5495	3853.4567	0.0	25943.369 ^C	0	2.949	6.165	-1.96 ^b	
858	$b^3G-v^3G^o$ (430)	3-4	3.67	3954.2701	3953.1514	-0.3	25289.117 ^A	2	3.018	6.153	-1.20 ^a	
		4-5	3.45	3946.0059	3944.8893	0.2	25342.081 ^A	-1	2.990	6.132	-1.44 ^a	
		4-4	3.73	3920.1754	3919.0655	0.0	25509.063 ^A	0	2.990	6.153	-1.11 ^a	
		3-3	4.14	3919.7514	3918.6417	0.0	25511.822 ^A	0	3.018	6.180	-0.72 ^a	
		5-5	4.27	3894.4935	3893.3903	0.2	25677.280 ^A	-1	2.949	6.132	-0.60 ^a	
		4-3	3.12	3886.2466	3885.1456	0.2	25731.769 ^B	-1	2.990	6.180	-1.88 ^a	
		5-4	2.88	3869.3289	3868.2323	-1.8	25844.275 ^C	12	2.949	6.153	...	
859	$b^3G-Fsp3^1F^o$ (431*)	3-3	3.48	3977.9861	3976.8612	1.6	25138.348 ^D	-10	3.018	6.134	...	I
		4-3	3.04	3943.4800	3942.3641	-1.1	25358.313 ^B	7	2.990	6.134	-2.07 ^a	
860	$b^3G-z^1F^o$ (432)	4-3	3.24	3778.1395	3777.0666	0.4	26468.054 ^B	-3	2.990	6.272	-1.85 ^a	
861	$b^3G-x^1G^o$ (433)	3-4	2.75	3805.8715	3804.7914	3.5	26275.191 ^C	-24	3.018	6.275	...	
862	$b^3G-x^3H^o$ (435)	4-5	4.16	3710.5892	3709.5338	-0.1	26949.898 ^A	1	2.990	6.331	...	
		3-4	3.54	3694.0776	3693.0265	-0.3	27070.357 ^D	2	3.018	6.374	...	II
		5-6	4.42	3671.1335	3670.0884	-0.1	27239.543 ^A	1	2.949	6.326	-0.70 ^b	
		5-5	3.24	3665.0038	3663.9602	-0.4	27285.101 ^B	3	2.949	6.331	...	
		4-4	3.24	3664.3025	3663.2591	-2.6	27290.323 ^B	19	2.990	6.374	...	
		5-4	3.57	3619.8445	3618.8126	0.9	27625.496 ^A	-7	2.949	6.374	...	
863	$b^3G-v^3F^o$ (437)	3-2	3.78	3722.6589	3721.6004	0.0	26862.520 ^A	0	3.018	6.348	...	
		3-4	2.99	3708.3944	3707.3396	-1.8	26965.848 ^B	13	3.018	6.361	...	
		4-3	3.89	3670.1968	3669.1519	-0.5	27246.495 ^A	4	2.990	6.368	-0.98 ^b	
		5-4	3.92	3633.5909	3632.5554	-0.1	27520.985 ^A	1	2.949	6.361	-1.03 ^b	
864	$b^3G-u^3G^o$ (438)	4-5	3.32	3669.0308	3667.9862	-8.6	27255.154 ^D	64	2.990	6.369	...	I
		3-4	2.86	3659.0623	3658.0203	1.6	27329.406 ^C	-12	3.018	6.406	...	
		3-3	2.71	3638.0824	3637.0458	-0.4	27487.008 ^C	3	3.018	6.425	...	
		4-4	2.71	3629.8451	3628.8106	-2.6	27549.385 ^C	20	2.990	6.406	-2.28 ^b	
		4-3	2.82	3609.2034	3608.1742	1.0	27706.945 ^C	-8	2.990	6.425	...	
		5-4	3.41	3586.2130	3585.1897	-0.3	27884.568 ^A	2	2.949	6.406	-1.26 ^a	
865	$b^3G-Hsp3^1H^o$ (440)	4-5	3.38	3634.8626	3633.8268	0.1	27511.356 ^B	-1	2.990	6.401	-1.46 ^a	
		5-5	3.23	3591.1085	3590.0840	0.4	27846.555 ^B	-3	2.949	6.401	-1.71 ^a	
866	$b^3G-x^1D^o$ (441)	3-2	3.57	3646.5328	3645.4940	-0.3	27423.310 ^A	2	3.018	6.417	...	
867	$b^3G-u^3D^o$	4-3	2.81	3590.6298	3589.6054	1.7	27850.267 ^C	-13	2.990	6.443	...	
868	$b^3G-t^3D^o$	4-3	2.58	3559.4291	3558.4127	2.0	28094.393 ^D	-16	2.990	6.473	...	
869	$b^3G-w^3H^o$ (442)	3-4	3.49	3517.4145	3516.4090	0.0	28429.973 ^B	0	3.018	6.542	-1.25 ^b	
		4-5	3.66	3509.4780	3508.4745	0.2	28494.266 ^A	-2	2.990	6.523	-0.88 ^a	
		5-6	3.79	3490.6664	3489.6677	0.0	28647.825 ^A	0	2.949	6.500	-0.75 ^a	
		4-4	2.76	3490.4103	3489.4117	-0.6	28649.927 ^C	5	2.990	6.542	...	
870	$b^3G-^4F5p^3G^o$	5-4	2.32	3307.5370	3306.5851	-2.0	30233.978 ^D	18	2.949	6.697	...	
		4-3	2.30	3307.0326	3306.0809	-0.7	30238.589 ^D	6	2.990	6.739	...	
871	$b^3G-Gsp3^3F^o$	3-4	3.30	3494.6889	3493.6892	1.1	28614.850 ^D	-9	3.018	6.565	...	I
		4-3	2.61	3420.1256	3419.1450	0.1	29238.692 ^C	-1	2.990	6.615	...	
872	$b^3G-^4F5p^5G^o$	4-4	2.46	3363.2342	3362.2681	0.8	29733.285 ^D	-7	2.990	6.677	...	
		5-4	2.34	3325.7386	3324.7821	-1.8	30068.509 ^D	16	2.949	6.677	...	
873	$b^3G-y^1H^o$ (446)	5-5	2.86	3386.4081	3385.4361	0.3	29529.814 ^B	-3	2.949	6.610	...	
874	$b^3G-Dsp3^5F^o$ (450*)	5-5	2.91	3307.9573	3307.0053	-0.5	30230.136 ^B	5	2.949	6.697	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
875	$b^3G-x^1F^o$ (447)	3-3	2.51	3398.5266	3397.5515	-0.7	29424.516 ^C	6	3.018	6.666	...	
		4-3	2.41	3373.3125	3372.3438	0.7	29644.452 ^C	-6	2.990	6.666	...	
876	$b^3G-Dsp3^5D^o$ (448)	4-4	2.49	3313.1749	3312.2216	-1.2	30182.530 ^C	11	2.990	6.732	...	
877	$b^3G-t^3G^o$ (449)	4-4	2.99	3320.2082	3319.2531	0.0	30118.593 ^B	0	2.990	6.724	-1.26 ^a	
		5-5	3.32	3311.2940	3310.3412	-0.2	30199.674 ^A	2	2.949	6.693	-1.17 ^a	
		3-3	2.76	3304.5200	3303.5689	-0.1	30261.581 ^C	1	3.018	6.769	-1.78 ^a	
		4-3	2.59	3280.6761	3279.7310	0.8	30481.522 ^C	-7	2.990	6.769	...	
878	$b^3G-w^1G^o$ (451)	4-4	2.98	3258.1739	3257.2345	-0.4	30692.039 ^B	4	2.990	6.795	-1.17 ^a	
879	$b^3G-s^3G^o$	4-5	2.43	3193.7664	3192.8433	0.4	31310.994 ^C	-4	2.990	6.872	...	
		3-3	2.79	3179.4558	3178.5364	0.3	31451.923 ^B	-3	3.018	6.917	...	
		3-4	1	3167.890	3166.974	1.0	31566.75 ^D	-10	3.018	6.931	...	
		5-5	2.59	3159.9356	3159.0211	-1.8	31646.215 ^C	18	2.949	6.872	...	
		4-3	2.54	3157.3768	3156.4630	1.4	31671.861 ^D	-14	2.990	6.917	...	II
		4-4	2.87	3145.9680	3145.0570	-0.5	31786.719 ^B	5	2.990	6.931	-1.21 ^a	
		5-4	2	3113.141	3112.238	1.0	32121.90 ^D	-10	2.949	6.931	...	
880	$b^3G-v^3H^o$ (452)	3-4	4	3214.685	3213.756	-1.0	31107.25 ^D	10	3.018	6.874	-1.82 ^a	
		4-4	0	3192.115	3191.193	0.0	31327.19 ^D	0	2.990	6.874	...	
		4-5	3	3184.030	3183.109	0.0	31406.74 ^D	0	2.990	6.884	...	II
		5-4	d0?	3158.323	3157.409	1.0	31662.37 ^D	-10	2.949	6.874	...	
		5-6	2	3153.969	3153.056	4.0	31706.08 ^D	-40	2.949	6.880	...	I
		5-5	0	3150.407	3149.495	1.0	31741.93 ^D	-10	2.949	6.884	...	
881	$b^3G-w^1D^o$	3-2	0	3183.145	3182.225	0.0	31415.47 ^D	0	3.018	6.912	...	
882	$b^3G-^2H4p^1H^o$ (455*)	5-5	3.06	3112.9799	3112.0772	-0.4	32123.561 ^B	4	2.949	6.931	...	
883	$b^3G-Gsp3^1F^o$	3-3	2.74	3148.7065	3147.7948	-0.7	31759.073 ^B	7	3.018	6.955	-1.10 ^a	
884	$b^3G-u^3H^o$ (456)	3-4	0	3116.774	3115.870	4.9	32084.46 ^D	-50	3.018	6.995	...	
		4-5	0	3099.447	3098.548	1.9	32263.82 ^D	-20	2.990	6.990	...	
		5-6	0	3072.169	3071.277	3.8	32550.29 ^D	-40	2.949	6.984	...	II
		5-5	1	3067.581	3066.689	5.6	32598.98 ^D	-60	2.949	6.990	...	
		5-4	d1*	3063.764	3062.874	6.6	32639.59 ^D	-70	2.949	6.995	...	
885	$b^3G-u^3F^o$ (457)	3-4	0?	3100.401	3099.502	3.8	32253.89 ^D	-40	3.018	7.016	...	
		3-3	0	3082.187	3081.293	5.7	32444.49 ^D	-60	3.018	7.040	...	
		4-4	0?	3079.396	3078.502	-0.9	32473.90 ^D	10	2.990	7.016	...	
		3-2	2.68	3075.0412	3074.1481	-0.5	32519.889 ^B	5	3.018	7.049	...	
		4-3	2.57	3061.4275	3060.5378	0.0	32664.500 ^C	0	2.990	7.040	-1.18 ^a	
		5-4	1.95	3047.9357	3047.0493	-0.8	32809.091 ^C	9	2.949	7.016	...	
886	$b^3G-s^6D_{4.5}4f[3.5]^o$	3-4	1	3083.953	3083.057	6.7	32425.92 ^D	-70	3.018	7.038	...	I
	$b^3G-s^6D_{4.5}4f[3.5]^o$	4-3	d0?	3063.055	3062.164	7.5	32647.15 ^D	-80	2.990	7.038	...	
	$b^3G-s^6D_{4.5}4f[2.5]^o$	4-3	d0?	3061.997	3061.108	1.9	32658.42 ^D	-20	2.990	7.039	...	
	$b^3G-s^6D_{4.5}4f[4.5]^o$	5-4	d0?	3032.933	3032.051	-5.5	32971.38 ^D	60	2.949	7.036	...	
887	$b^3G-v^1G^o$ (458)	5-4	1	3014.977	3014.099	-6.4	33167.75 ^D	70	2.949	7.061	...	I
888	$b^3G-x^3I^o$ (459)	4-5	0	3031.642	3030.759	-2.8	32985.43 ^D	30	2.990	7.080	...	
		5-6	d0?	3004.214	3003.338	-2.7	33286.58 ^D	30	2.949	7.076	...	
889	$b^3G-t^3F^o$ (UV178,46)	3-3	d0?	3002.799	3001.924	-1.8	33302.26 ^D	20	3.018	7.146	...	
		3-2	2	2996.704	2995.830	-1.8	33370.00 ^D	20	3.018	7.155	...	
		4-3	2	2983.099	2982.228	-0.9	33522.19 ^D	10	2.990	7.146	-1.49 ^a	
		5-4	2.46	2961.5242	2960.6594	-0.7	33766.396 ^C	8	2.949	7.135	-1.00 ^a	
890	$b^3G-s^4D5p^3F^o$	4-4	d0?	2958.718	2957.854	0.9	33798.42 ^D	-10	2.990	7.181	...	
		5-4	2	2929.662	2928.805	0.0	34133.63 ^D	0	2.949	7.181	...	
891	$b^3G-Hsp1^3G^o$	4-4	1	2922.626	2921.771	0.0	34215.80 ^D	0	2.990	7.232	...	
		3-3	2	2918.726	2917.872	4.3	34261.52 ^D	-50	3.018	7.265	...	II
		4-3	2.51	2900.1048	2899.2551	0.8	34481.513 ^D	-10	2.990	7.265	...	II
		5-4	0	2894.279	2893.431	5.9	34550.92 ^D	-70	2.949	7.232	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
892	$b^3G-s^4D5p^3D^o$	4-3	1	2927.625	2926.769	4.3	34157.38 ^D	-50	2.990	7.225	...	
893	$b^3G-s^4D5p^5P^o$	3-2	d0?	2876.322	2875.478	-7.4	34766.62 ^D	90	3.018	7.328	...	
894	$b^3G-^4F_{4.5}4f$ [2.5] ^o	3-3	0*	2908.644	2907.792	0.0	34380.28 ^D	0	3.018	7.280	...	
	$b^3G-^4F_{4.5}4f$ [5.5] ^o	4-5	d0?	2891.671	2890.824	-5.0	34582.08 ^D	60	2.990	7.278	...	
	$b^3G-^4F_{4.5}4f$ [5.5] ^o	5-6	d0?	2863.941	2863.100	0.0	34916.92 ^D	0	2.949	7.278	...	II
	$b^3G-^4F_{4.5}4f$ [4.5] ^o	5-4	d0?	2863.584	2862.744	1.6	34921.27 ^D	-20	2.949	7.278	...	
	$b^3G-Hsp1^3I^o$	5-6	d0?	2843.891	2843.055	1.6	35163.09 ^D	-20	2.949	7.308	...	
896	$b^3G-^4F_{3.5}4f$ [3.5] ^o	3-4	d0?	2863.114	2862.273	-2.5	34927.01 ^D	30	3.018	7.348	...	
	$b^3G-^4F_{3.5}4f$ [5.5] ^o	4-5	d0?	2845.250	2844.414	-7.3	35146.30 ^D	90	2.990	7.348	...	
	$b^3G-^4F_{3.5}4f$ [4.5] ^o	5-4	d0?	2818.596	2817.766	0.8	35478.66 ^D	-10	2.949	7.347	...	
897	$b^3G-^4F_{2.5}4f$ [3.5] ^o	3-3	2.22	2830.1977	2829.3652	-2.3	35333.221 ^D	29	3.018	7.398	...	I
	$b^3G-^4F_{2.5}4f$ [3.5] ^o	4-4	d0?	2812.735	2811.906	4.0	35552.59 ^D	-50	2.990	7.398	...	
	$b^3G-^4F_{2.5}4f$ [3.5] ^o	4-3	d0?	2812.687	2811.859	-3.2	35553.19 ^D	40	2.990	7.398	...	
	$b^3G-^4F_{2.5}4f$ [4.5] ^o	4-4	d0?	2812.603	2811.775	3.2	35554.25 ^D	-40	2.990	7.398	...	
	$b^3G-Fsp1^3F^o$	3-3	2	2790.662	2789.839	-7.0	35833.79 ^D	90	3.018	7.460	...	
898		4-4	2	2779.573	2778.753	1.5	35976.75 ^D	-20	2.990	7.451	...	
		4-3	3	2773.640	2772.822	-3.8	36053.70 ^D	50	2.990	7.460	...	
		5-4	2.08	2753.9116	2753.0978	-0.6	36311.986 ^B	8	2.949	7.451	...	
	$b^3G-Fsp1^3G^o$	4-5	2	2767.367	2766.550	-6.1	36135.43 ^D	80	2.990	7.470	...	I
		3-3	0	2760.539	2759.724	2.3	36224.81 ^D	-30	3.018	7.509	...	
899		4-4	d1	2751.232	2750.419	0.0	36347.35 ^D	0	2.990	7.497	...	
		4-3	0	2743.872	2743.060	-3.8	36444.85 ^D	50	2.990	7.509	...	
		5-4	1.78	2726.0918	2725.2847	-0.5	36682.550 ^C	7	2.949	7.497	...	
	$b^3G-t^3H^o$	5-6	1	2733.587	2732.778	3.0	36581.97 ^D	-40	2.949	7.484	...	II
		5-5	d0?	2719.943	2719.138	1.5	36765.47 ^D	-20	2.949	7.507	...	
900		5-4	1	2704.607	2703.805	1.5	36973.95 ^D	-20	2.949	7.533	...	
	$b^3G-Gsp1^3H^o$	5-6	1.86	2547.6321	2546.8676	0.0	39252.135 ^A	0	2.949	7.815	...	
902	$c^3P-z^5P^o$	1-2	1.51	21290.167	21284.357	9	4697.004 ^D	-2	3.071	3.654	...	I
		2-3	1.63	21183.949	21178.169	13	4720.555 ^A	-3	3.017	3.602	...	
		2-2	1.04	19480.813	19475.495	8	5133.256 ^A	-2	3.017	3.654	...	
		2-1	1.96	18528.918	18523.860	0	5396.969 ^A	0	3.017	3.686	...	
	$c^3P-z^3F^o$	1-2	1.08	13583.309	13579.596	-6	7361.976 ^B	3	3.071	3.984	...	
903		2-3	2.18	13388.131	13384.471	4	7469.302 ^A	-2	3.017	3.943	...	
		2-2	1.46	12823.419	12819.912	-12	7798.232 ^B	7	3.017	3.984	...	
	$c^3P-z^3D^o$	0-1	1.46	14607.660	14603.669	4	6845.723 ^A	-2	3.111	3.960	...	
904		1-2	0.90	14462.698	14458.746	-13	6914.339 ^B	6	3.071	3.928	...	
		2-3	3.31	14312.611	14308.700	4	6986.845 ^A	-2	3.017	3.883	-2.67 ^a	
		2-2	2.45	13604.363	13600.644	4	7350.583 ^A	-2	3.017	3.928	...	
		2-1	0.95	13155.208	13151.611	10	7601.552 ^A	-6	3.017	3.960	...	
	$c^3P-z^3P^o$	1-2	2.43	10899.287	10896.302	4	9174.912 ^A	-3	3.071	4.209	...	
905	(461)	0-1	2.67	10786.005	10783.051	1	9271.273 ^A	-1	3.111	4.260	...	
		1-1	2.61	10426.602	10423.745	3	9590.852 ^A	-3	3.071	4.260	...	
		2-2	1.11	10404.565	10401.715	1	9611.165 ^A	-1	3.017	4.209	...	
		1-0	2.81	10221.211	10218.410	2	9783.576 ^A	-2	3.071	4.284	-2.76 ^b	
		2-1	1.41	9972.9673	9970.2338	1.0	10027.106 ^A	-1	3.017	4.260	...	
906	$c^3P-y^3D^o$	2-3	1.70	7225.6518	7223.6610	2.6	13839.582 ^B	-5	3.017	4.733	-2.21 ^a	
907	(463)											
	$c^3P-x^5P^o$	0-1	2.19	5559.4462	5557.9028	5.9	17987.403 ^D	-19	3.111	5.341	...	I
908	(464)	1-1	1.95	5462.3944	5460.8769	3.9	18306.990 ^C	-13	3.071	5.341	-3.58 ^b	
	$c^3P-w^5D^o$	2-3	2.39	5105.4526	5104.0302	-0.3	19586.902 ^B	1	3.017	5.446	-2.87 ^b	
909	(465)	2-2	2.15	5038.3268	5036.9222	0.5	19847.859 ^D	-2	3.017	5.478	...	II
	$c^3P-v^5D^o$	2-3	2.31	5042.7532	5041.3474	0.5	19830.437 ^B	-2	3.017	5.476	...	
909	(466)											

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl ⁸
910	$c^3P-w^5F^o$	2-2	1.78	5012.6097	5011.2120	-0.5	19949.688 ^D	2	3.017	5.491	...	
911	$c^3P-x^3D^o$ (467)	1-2	2.29	4875.7151	4874.3537	0.5	20509.812 ^B	-2	3.071	5.614	-3.03 ^b	
		1-1	1.78	4812.3730	4811.0284	-5.1	20779.769 ^C	22	3.071	5.648	...	
		2-3	3.62	4788.1452	4786.8070	0.0	20884.914 ^A	0	3.017	5.606	-1.61 ^a	
		2-2	2.98	4774.1648	4772.8303	-1.4	20946.072 ^A	6	3.017	5.614	-2.19 ^a	
		2-1	2.14	4713.4241	4712.1057	0.0	21215.999 ^B	0	3.017	5.648	-3.13 ^b	
912	$c^3P-w^5P^o$ (468)	2-1	2.30	4530.0909	4528.8210	0.4	22074.612 ^B	-2	3.017	5.754	...	
913	$c^3P-z^3S^o$ (469)	2-1	3.35	4491.3437	4490.0840	-0.4	22265.052 ^A	2	3.017	5.778	-1.58 ^b	
914	$c^3P-y^3P^o$ (472)	0-1	2.05	4585.0052	4583.7208	1.3	21810.226 ^B	-6	3.111	5.815	...	
		1-0	2.43	4566.1008	4564.8214	-0.8	21900.524 ^B	4	3.071	5.786	...	
		1-1	3.05	4518.7914	4517.5245	0.4	22129.811 ^A	-2	3.071	5.815	-1.86 ^a	
		2-2	2.95	4466.0195	4464.7665	0.4	22391.304 ^A	-2	3.017	5.793	-2.00 ^a	
		2-1	3.05	4431.4330	4430.1891	0.0	22566.064 ^A	0	3.017	5.815	-1.75 ^a	
915	$c^3P-u^5D^o$ (471)	0-1	2.67	4527.8302	4526.5608	-0.2	22085.634 ^A	1	3.111	5.849	...	
		1-0	1.40	4464.3852	4463.1326	2.2	22399.501 ^C	-11	3.071	5.848	...	
		2-3	2.66	4462.4487	4461.1967	0.8	22409.221 ^B	-4	3.017	5.795	...	
		2-1	2.69	4378.0040	4376.7742	1.5	22841.459 ^B	-8	3.017	5.849	-2.34 ^a	
916	$c^3P-x^3F^o$ (473)	2-3	1.60	4394.2581	4393.0240	-5.0	22756.970 ^D	26	3.017	5.839	...	
		2-2	2.54	4374.2106	4372.9817	-4.8	22861.268 ^B	25	3.017	5.851	-2.63 ^b	
917	$c^3P-w^3D^o$ (474)	0-1	1.90	4508.4774	4507.2132	-2.0	22180.437 ^C	10	3.111	5.861	...	
		1-1	4.15	4444.4415	4443.1942	-1.4	22500.015 ^D	7	3.071	5.861	...	I
		2-3	2.20	4408.8950	4407.6571	0.2	22681.420 ^C	-1	3.017	5.829	...	
		2-2	2.72	4385.9041	4384.6722	0.0	22800.316 ^B	0	3.017	5.844	-2.16 ^b	
		2-1	2.19	4359.9093	4358.6842	0.4	22936.257 ^C	-2	3.017	5.861	...	
918	$c^3P-y^3S^o$ (476)	0-1	2.88	4451.5648	4450.3156	-0.2	22464.011 ^A	1	3.111	5.896	-1.99 ^a	
		1-1	3.51	4389.1239	4387.8912	0.2	22783.590 ^A	-1	3.071	5.896	-1.52 ^a	
		2-1	3.59	4306.6615	4305.4505	0.2	23219.842 ^A	-1	3.017	5.896	-1.33 ^a	
919	$c^3P-v^5F^o$ (476a)	1-2	3.15	4261.3343	4260.1352	0.0	23466.828 ^A	0	3.071	5.981	-1.52 ^a	
		1-1	2.57	4241.1362	4239.9424	0.0	23578.587 ^B	0	3.071	5.995	...	
		2-2	3.60	4183.5613	4182.3826	-0.2	23903.080 ^A	1	3.017	5.981	-1.18 ^a	
920	$c^3P-v^5P^o$ (478)	0-1	2.52	4310.6659	4309.4538	-0.4	23198.272 ^B	2	3.111	5.987	...	
		1-2	2.68	4275.0713	4273.8685	0.7	23391.423 ^B	-4	3.071	5.971	...	
		1-1	2.60	4252.0885	4250.8918	-0.5	23517.855 ^B	3	3.071	5.987	...	
		2-2	3.06	4196.8000	4195.6179	0.0	23827.678 ^A	0	3.017	5.971	-1.80 ^a	
		2-1	2.72	4174.6482	4173.4719	-1.9	23954.114 ^C	11	3.017	5.987	...	
921	$c^3P-x^3P^o$ (482)	0-1	3.67	4269.0276	4267.8265	-0.2	23424.538 ^A	1	3.111	6.015	-1.17 ^a	
		1-2	3.45	4249.4200	4248.2240	0.0	23532.623 ^A	0	3.071	5.989	-1.29 ^a	
		1-0	3.52	4221.5304	4220.3417	0.4	23688.092 ^A	-2	3.071	6.008	-1.31 ^a	
		1-1	3.57	4211.5694	4210.3833	0.0	23744.118 ^A	0	3.071	6.015	-1.24 ^a	
		2-2	3.71	4172.0775	4170.9018	0.2	23968.874 ^A	-1	3.017	5.989	-1.09 ^a	
922	$c^3P-w^3F^o$ (485)	2-1	3.15	4135.5869	4134.4207	0.9	24180.365 ^D	-5	3.017	6.015	-1.70 ^a	I
		2-3	2.91	4014.9164	4013.7818	-0.2	24907.119 ^A	1	3.017	6.105	-2.15 ^a	
		0-1	2.47	4131.2017	4130.0367	0.3	24206.032 ^D	-2	3.111	6.112	...	I
		1-1	2.95	4077.3689	4076.2180	-0.7	24525.620 ^B	4	3.071	6.112	-2.03 ^b	
		2-3	2.23	4032.3794	4031.2402	0.2	24799.254 ^C	-1	3.017	6.092	-2.57 ^b	
923	$c^3P-v^3D^o$ (486)	2-2	3.37	4014.9594	4013.8248	0.3	24906.852 ^A	-2	3.017	6.105	...	
		2-1	2.97	4006.1108	4004.9785	0.2	24961.866 ^A	-1	3.017	6.112	...	
		2-3	3.04	3977.5104	3976.3856	0.8	25141.355 ^D	-5	3.017	6.134	-2.18 ^a	II
		0-1	3.45	4007.7569	4006.6242	-0.2	24951.613 ^A	1	3.111	6.204	-1.37 ^a	
		1-0	3.73	3971.5123	3970.3891	-0.2	25179.325 ^A	1	3.071	6.193	-1.08 ^b	
924	$c^3P-Fsp3^1F^o$ (487*)	1-1	3.41	3957.0749	3955.9555	0.2	25271.192 ^A	-1	3.071	6.204	-1.53 ^a	
		1-2	3.63	3934.7133	3933.5997	0.5	25414.812 ^D	-3	3.071	6.222	-1.16 ^a	I
		2-1	4.01	3889.9236	3888.8216	-0.2	25707.446 ^A	1	3.017	6.204	-0.88 ^a	
		2-1	4.01	3889.9236	3888.8216	-0.2	25707.446 ^A	1	3.017	6.204	-0.88 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		2-2	4.33	3868.3123	3867.2159	0.0	25851.067 ^A	0	3.017	6.222	-0.45 ^a	
926	$c^3P-z^1F^o$ (489)	2-3	2.95	3809.3620	3808.2810	-0.6	26251.115 ^B	4	3.017	6.272	-1.94 ^a	
927	$c^3P-t^5D^o$ (490)	1-2	2.71	3723.2864	3722.2277	-1.5	26857.993 ^C	11	3.071	6.401	...	
		2-3	3.06	3700.1914	3699.1387	-0.7	27025.629 ^B	5	3.017	6.368	-1.19 ^b	
928	$c^3P-v^3F^o$ (491)	1-2	3.20	3783.6839	3782.6096	0.0	26429.269 ^B	0	3.071	6.348	-1.86 ^b	
		2-2	3.30	3722.2434	3721.1850	0.3	26865.519 ^B	-2	3.017	6.348	...	
		2-3	3.58	3699.6555	3698.6029	-0.1	27029.544 ^A	1	3.017	6.368	-1.26 ^b	
929	$c^3P-u^3G^o$ (493)	2-3	3.41	3637.6856	3636.6491	-0.1	27490.006 ^B	1	3.017	6.425	-1.38 ^a	
930	$c^3P-y^1D^o$ (494)	1-2	3.63	3712.4642	3711.4083	0.0	26936.287 ^A	0	3.071	6.411	-0.88 ^a	
931	$c^3P-x^1D^o$ (495)	1-2	3.06	3705.0680	3704.0140	-0.1	26990.058 ^B	1	3.071	6.417	-1.80 ^b	
932	$c^3P-u^3D^o$ (496)	0-1	4.02	3646.8590	3645.8201	-0.3	27420.857 ^A	2	3.111	6.510	-0.54 ^a	
		1-2	4.30	3633.0742	3632.0388	0.1	27524.899 ^A	-1	3.071	6.484	-0.18 ^a	
		2-3	4.56	3618.8178	3617.7861	-0.1	27633.334 ^A	1	3.017	6.443	-0.01 ^a	
		1-1	3.53	3604.8460	3603.8179	0.1	27740.436 ^A	-1	3.071	6.510	-1.00 ^a	
		2-2	3.97	3576.3907	3575.3700	0.0	27961.151 ^A	0	3.017	6.484	-0.53 ^a	
		2-1	3.19	3549.0343	3548.0206	1.1	28176.679 ^B	-9	3.017	6.510	-1.26 ^b	
933	$c^3P-^2P4p^1P^o$	0-1	3.23	3691.5052	3690.4547	-0.1	27089.221 ^B	1	3.111	6.469	-1.13 ^a	
		1-1	3.78	3648.4631	3647.4238	-0.1	27408.801 ^A	1	3.071	6.469	-0.69 ^a	
934	$c^3P-t^3D^o$ (497)	1-2	3.36	3582.8299	3581.8075	0.1	27910.898 ^B	-1	3.071	6.532	-1.08 ^a	
		1-1	3.60	3560.5199	3559.5033	-0.4	28085.786 ^B	3	3.071	6.553	-0.97 ^b	
		2-1	3.36	3506.0612	3505.0586	0.0	28522.035 ^B	0	3.017	6.553	-1.01 ^a	
935	$c^3P-v^3P^o$ (499)	0-1	3.12	3553.8700	3552.8551	0.1	28138.339 ^B	-1	3.111	6.599	-1.47 ^a	
		1-2	3.16	3553.1207	3552.1060	0.3	28144.273 ^B	-2	3.071	6.561	-1.37 ^b	
		1-1	2.96	3513.9590	3512.9544	-1.2	28457.930 ^C	10	3.071	6.599	...	
		2-2	3.22	3498.8878	3497.8870	1.8	28580.511 ^B	-15	3.017	6.561	...	
		2-1	3.58	3460.9051	3459.9140	-0.5	28894.176 ^A	4	3.017	6.599	-0.93 ^a	
936	$c^3P-^2Dsp3^5F^o$	1-1	2.67	3457.2344	3456.2443	-0.8	28924.854 ^C	7	3.071	6.657	...	
937	$c^3P-x^1F^o$ (503)	2-3	2.46	3398.1787	3397.2037	-2.0	29427.528 ^D	17	3.017	6.666	...	
938	$c^3P-x^3S^o$	1-1	2.81	3443.9592	3442.9724	-1.5	29036.349 ^C	13	3.071	6.671	...	
		2-1	3.19	3392.9832	3392.0096	-0.1	29472.589 ^B	1	3.017	6.671	...	
939	$c^3P-^4F5p^3D^o$	2-3	2.73	3389.5917	3388.6189	0.5	29502.078 ^C	-4	3.017	6.675	...	
		1-2	2.30	3381.7176	3380.7468	-1.6	29570.772 ^D	14	3.071	6.737	...	
		0-1	2.32	3365.2277	3364.2611	-2.6	29715.671 ^D	23	3.111	6.795	...	
940	$c^3P-t^5P^o$ (502)	2-1	2.56	3340.5371	3339.5768	-1.5	29935.306 ^C	13	3.017	6.729	...	
941	$c^3P-w^1D^o$ (505)	1-2	6	3227.651	3226.720	-6.3	30982.28 ^D	60	3.071	6.912	...	I
		2-2	5	3182.844	3181.924	2.0	31418.44 ^D	-20	3.017	6.912	...	
942	$c^3P-u^3F^o$	1-2	2.20	3116.5607	3115.6572	-1.9	32086.652 ^D	20	3.071	7.049	...	
		2-3	2.15	3081.8963	3081.0014	-0.2	32447.555 ^D	2	3.017	7.040	...	
		2-2	d0?	3074.764	3073.871	5.7	32522.82 ^D	-60	3.017	7.049	...	
943	$c^3P-s^6D6p^5D^o$	2-1	d0?	3024.307	3023.426	-4.6	33065.43 ^D	50	3.017	7.117	...	
944	$c^3P-s^6D_{2.5}4f[3.5]^o$	2-3	0	3020.806	3019.926	-2.7	33103.75 ^D	30	3.017	7.121	...	
945	$c^3P-t^3F^o$ (506)	2-3	13	3002.533	3001.658	1.8	33305.21 ^D	-20	3.017	7.146	...	
946	$c^3P-Psp1^3D^o$	2-3	0	3009.371	3008.495	0.0	33229.53 ^D	0	3.017	7.137	...	
947	$c^3P-s^4D5p^5D^o$	0-1	d0?	2991.472	2990.600	3.6	33428.36 ^D	-40	3.111	7.255	...	
		2-3	d0	2967.551	2966.685	-7.0	33697.82 ^D	80	3.017	7.195	...	
948	$c^3P-s^4D5p^3F^o$	2-2	3	2887.990	2887.143	5.0	34626.16 ^D	-60	3.017	7.310	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
949	$c^3P-s^4D5p^3P^o$	1-2	1	3009.554	3008.678	-5.4	33227.51 ^D	60	3.071	7.191	...	
		0-1	1	2919.526	2918.672	6.0	34252.13 ^D	-70	3.111	7.357	...	
		1-1	1*	2892.540	2891.692	7.5	34571.69 ^D	-90	3.071	7.357	...	
950	$c^3P-s^4D5p^3D^o$	0-1	d0?	3002.702	3001.827	-6.3	33303.34 ^D	70	3.111	7.240	...	
		2-2	d0?	2958.885	2958.020	-2.6	33796.52 ^D	30	3.017	7.207	...	
		2-3	1	2946.333	2945.471	0.0	33940.50 ^D	0	3.017	7.225	...	
951	$c^3P-s^4D5p^5P^o$	1-1	0?	2891.168	2890.320	5.9	34588.10 ^D	-70	3.071	7.359	...	
952	$c^3P-Psp1^3S^o$	0-1	3	2906.215	2905.364	0.0	34409.02 ^D	0	3.111	7.377	...	
		1-1	2	2879.474	2878.629	2.5	34728.57 ^D	-30	3.071	7.377	...	
		2-1	2	2843.747	2842.911	-0.8	35164.87 ^D	10	3.017	7.377	...	
953	$c^3P-Fsp1^3D^o$	2-3	2.03	2741.9121	2741.1012	0.2	36470.899 ^D	-3	3.017	7.539	...	II
954	$a^1G-z^3F^o$	4-4	1.41	14853.127	14849.068	0	6732.589 ^A	0	3.047	3.881	...	
		4-3	1.04	13830.466	13826.686	4	7230.414 ^A	-2	3.047	3.943	...	
955	$a^1G-z^3D^o$	4-3	1.64	14819.291	14815.242	-9	6747.961 ^A	4	3.047	3.883	...	
956	$a^1G-z^5G^o$	4-4	1.58	9360.9583	9358.3905	0.9	10682.667 ^A	-1	3.047	4.371	...	
		4-3	1.11	9060.4577	9057.9713	0.0	11036.970 ^B	0	3.047	4.415	...	
957	$a^1G-y^3F^o$ (508)	4-3	1.15	7944.0176	7941.8330	0.6	12588.089 ^A	-1	3.047	4.607	...	
958	$a^1G-y^3G^o$ (512)	4-4	2.15	4795.3020	4793.9619	0.5	20853.744 ^B	-2	3.047	5.632	-3.53 ^b	
959	$a^1G-z^3I^o$ (513)	4-5	2.04	4637.9692	4636.6707	0.6	21561.161 ^C	-3	3.047	5.720	-3.77 ^b	
960	$a^1G-u^5D^o$ (514)	4-4	2.92	4515.4500	4514.1839	-0.2	22146.187 ^A	1	3.047	5.792	-2.05 ^b	
961	$a^1G-x^3F^o$ (515)	4-4	3.06	4481.3936	4480.1366	-0.2	22314.487 ^A	1	3.047	5.813	-1.93 ^a	
		4-3	2.34	4440.8805	4439.6341	-0.2	22518.057 ^D	1	3.047	5.839	-2.84 ^b	I
962	$a^1G-z^3H^o$ (516)	4-5	3.06	4457.5765	4456.3257	0.0	22433.715 ^A	0	3.047	5.828	-2.17 ^a	
		4-4	3.04	4438.1663	4436.9206	-0.2	22531.828 ^A	1	3.047	5.840	-2.13 ^a	
963	$a^1G-w^5G^o$ (517)	4-5	2.59	4377.2159	4375.9862	-0.2	22845.572 ^B	1	3.047	5.879	...	
		4-4	3.10	4344.9186	4343.6975	0.2	23015.391 ^A	-1	3.047	5.900	-1.88 ^b	
964	$a^1G-z^1G^o$ (518)	4-4	4.44	4370.9998	4369.7718	0.0	22878.061 ^A	0	3.047	5.883	-0.80 ^a	
965	$a^1G-x^3G^o$ (520)	4-4	3.44	4303.3960	4302.1858	0.0	23237.462 ^A	0	3.047	5.928	-1.72 ^a	
		4-5	3.80	4299.2455	4298.0364	-0.4	23259.895 ^A	2	3.047	5.931	-1.43 ^a	
966	$a^1G-y^5H^o$ (521*)	4-5	4.02	4227.1459	4225.9557	0.0	23656.624 ^A	0	3.047	5.980	-1.41 ^a	
		4-4	3.28	4203.9370	4202.7530	0.0	23787.226 ^A	0	3.047	5.996	-2.22 ^a	
967	$a^1G-z^1H^o$ (522)	4-5	5.16	4200.2783	4199.0952	0.2	23807.946 ^D	-1	3.047	5.998	0.16 ^a	II
968	$a^1G-y^1G^o$ (523)	4-4	4.80	4144.5831	4143.4146	0.0	24127.879 ^A	0	3.047	6.038	-0.20 ^a	
969	$a^1G-w^3F^o$ (524)	4-4	3.86	4075.9363	4074.7858	0.0	24534.240 ^D	0	3.047	6.089	-1.11 ^a	II
		4-3	2.61	4053.7978	4052.6531	0.7	24668.226 ^B	-4	3.047	6.105	...	
970	$a^1G-y^3H^o$ (526)	4-5	3.33	3995.2426	3994.1132	0.3	25029.769 ^A	-2	3.047	6.150	-1.62 ^a	
971	$a^1G-v^3G^o$ (527)	4-5	3.58	4018.2840	4017.1485	0.2	24886.245 ^A	-1	3.047	6.132	-1.06 ^a	
		4-4	3.37	3991.5018	3990.3733	0.2	25053.227 ^A	-1	3.047	6.153	-1.51 ^a	
972	$a^1G-Fsp3^1F^o$	4-3	4.47	4015.6656	4014.5308	-0.2	24902.472 ^A	1	3.047	6.134	-0.59 ^a	
973	$a^1G-z^1F^o$ (528)	4-3	4.70	3844.3469	3843.2568	0.0	26012.221 ^A	0	3.047	6.272	-0.24 ^a	
974	$a^1G-x^1G^o$ (529)	4-4	4.68	3840.3449	3839.2558	-0.1	26039.328 ^A	1	3.047	6.275	-0.33 ^a	
975	$a^1G-x^3H^o$ (531)	4-5	3.07	3774.4305	3773.3586	-0.3	26494.063 ^B	2	3.047	6.331	-2.17 ^b	
		4-4	3.41	3726.5504	3725.4908	-0.3	26834.469 ^A	2	3.047	6.374	-1.54 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{gir}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
976	$a^1G-v^3F^o$ (532a)	4-4	3.30	3741.1224	3740.0591	0.3	26729.946 ^B	-2	3.047	6.361	...	
977	$a^1G-u^3G^o$ (533)	4-5	4.11	3731.4472	3730.3864	0.0	26799.254 ^A	0	3.047	6.369	-0.65 ^a	
978	$a^1G-Hsp3^1H^o$ (534a*)	4-5	4.53	3696.1031	3695.0515	0.0	27055.522 ^D	0	3.047	6.401	...	I
979	$a^1G-u^3D^o$	4-3	2.87	3650.3730	3649.3332	-2.3	27394.461 ^C	17	3.047	6.443	...	
980	$a^1G-w^3H^o$ (536)	4-4	3.08	3546.8439	3545.8308	0.8	28194.080 ^B	-6	3.047	6.542	...	
981	$a^1G-y^3I^o$ (537)	4-5	2.93	3530.5331	3529.5242	0.9	28324.334 ^C	-7	3.047	6.558	...	
982	$a^1G-^4F5p^3G^o$	4-3	2.52	3357.6477	3356.6831	-0.9	29782.755 ^C	8	3.047	6.739	...	
983	$a^1G-Gsp3^3F^o$	4-3	3.02	3474.2915	3473.2970	1.3	28782.847 ^C	-11	3.047	6.615	...	
984	$a^1G-^4F5p^5F^o$ (539*)	4-3	3.50	3438.0297	3437.0445	-0.6	29086.427 ^B	5	3.047	6.653	...	
985	$a^1G-y^1H^o$ (540)	4-5	3.43	3479.6187	3478.6229	0.0	28738.781 ^B	0	3.047	6.610	...	
986	$a^1G-^4F5p^5D^o$	4-3	3.71	3423.4739	3422.4924	-0.4	29210.096 ^A	3	3.047	6.668	...	
987	$a^1G-x^1F^o$ (541)	4-3	3.95	3425.9921	3425.0100	-0.2	29188.625 ^D	2	3.047	6.666	-0.50 ^a	II
988	$a^1G-^4F5p^3D^o$	4-3	2.83	3417.2599	3416.2800	-2.1	29263.212 ^D	18	3.047	6.675	...	
989	$a^1G-Dsp3^5D^o$ (542*)	4-3	2.83	3411.0060	3410.0278	0.5	29316.864 ^C	-4	3.047	6.681	...	
990	$a^1G-t^3G^o$ (542a)	4-3	2.79	3330.4807	3329.5229	-0.4	30025.696 ^C	4	3.047	6.769	...	
991	$a^1G-w^1G^o$ (544)	4-4	4.21	3307.2914	3306.3396	-2.7	30236.223 ^A	25	3.047	6.795	-0.07 ^a	
992	$a^1G-s^3G^o$ (548)	4-5	2.28	3240.9473	3240.0123	-1.5	30855.176 ^D	14	3.047	6.872	...	
		4-3	3.15	3203.4813	3202.5558	-0.1	31216.040 ^B	1	3.047	6.917	-1.18 ^a	
		4-4	3.07	3191.7393	3190.8167	-0.1	31330.880 ^B	1	3.047	6.931	-1.12 ^a	
993	$a^1G-v^3H^o$ (545)	4-4	d0	3239.252	3238.318	3.1	30871.32 ^D	-30	3.047	6.874	...	II
		4-5	3.51	3230.9233	3229.9909	-0.1	30950.905 ^A	1	3.047	6.884	-0.74 ^a	
994	$a^1G-^2H4p^1H^o$	4-5	3.09	3191.5720	3190.6495	-0.1	31332.522 ^B	1	3.047	6.931	-1.02 ^a	
995	$a^1G-Gsp3^1F^o$	4-3	3.34	3172.2689	3171.3513	-0.1	31523.179 ^A	1	3.047	6.955	-0.71 ^a	
996	$a^1G-u^3H^o$	4-5	0?	3143.854	3142.944	-7.9	31808.09 ^D	80	3.047	6.990	...	II
997	$a^1G-u^3F^o$	4-4	1	3123.230	3122.324	-8.8	32018.14 ^D	90	3.047	7.016	...	
		4-3	3	3104.756	3103.855	1.0	32208.65 ^D	-10	3.047	7.040	...	I
		4-3	2.23	3104.7530	3103.8524	-1.6	32208.681 ^D	17	3.047	7.040	...	
998	$a^1G-s^6D6p^5F^o$	4-4	1	3077.907	3077.013	6.6	32489.61 ^D	-70	3.047	7.075	...	
		4-3	d0	3051.657	3050.770	8.4	32769.08 ^D	-90	3.047	7.109	...	II
999	$a^1G-x^3I^o$ (549)	4-5	2	3074.128	3073.235	0.9	32529.55 ^D	-10	3.047	7.080	...	
1000	$a^1G-s^6D_{2,5}4f[5.5]^o$	4-5	3	3043.726	3042.841	-2.8	32854.47 ^D	30	3.047	7.120	...	
1001	$a^1G-s^4D5p^3F^o$	4-3	0?	2897.293	2896.444	0.0	34514.98 ^D	0	3.047	7.326	...	
1002	$a^1G-Hsp1^3G^o$	4-4	0	2962.087	2961.222	-1.8	33759.98 ^D	20	3.047	7.232	...	
1003	$a^1G-Hsp1^3I^o$	4-5	0	2897.620	2896.771	7.6	34511.08 ^D	-90	3.047	7.325	...	
1004	$a^1G-^4F_{3,5}4f[4.5]^o$	4-4	0?	2882.871	2882.026	0.0	34687.64 ^D	0	3.047	7.347	...	
	$a^1G-^4F_{3,5}4f[4.5]^o$	4-5	1	2882.650	2881.805	-5.8	34690.30 ^D	70	3.047	7.348	...	I
	$a^1G-^4F_{3,5}4f[5.5]^o$	4-5	1	2882.650	2881.805	5.0	34690.30 ^D	-60	3.047	7.348	...	I
	$a^1G-^4F_{3,5}4f[3.5]^o$	4-4	d0?	2882.586	2881.741	0.8	34691.07 ^D	-10	3.047	7.348	...	
1005	$a^1G-Fsp1^3G^o$	4-5	1	2802.721	2801.895	-7.1	35679.61 ^D	90	3.047	7.470	...	
		4-4	d0?	2786.171	2785.349	-3.1	35891.55 ^D	40	3.047	7.497	...	
		4-3	1	2778.632	2777.812	1.5	35988.93 ^D	-20	3.047	7.509	...	II

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1006	$\alpha^1G-t^3H^o$	4-5	d0?	2779.748	2778.928	-1.5	35974.48 ^D	20	3.047	7.507	...	
		4-4	d7	2763.736	2762.920	2.3	36182.90 ^D	-30	3.047	7.533	...	
1007	$\alpha^1G-Fsp1^3D^o$	4-3	0	2759.995	2759.180	4.6	36231.95 ^D	-60	3.047	7.539	...	I
1008	$z^5D^o-c^3F$	3-4	1.38	14851.225	14847.167	4	6733.451 ^A	-2	3.241	4.076	...	
		2-3	1.00	14138.228	14134.364	-2	7073.022 ^A	1	3.266	4.143	...	
		1-2	0.70	13725.102	13721.350	9	7285.920 ^D	-5	3.283	4.186	...	I
1009	$z^5D^o-d^3F$	2-2	1.28	9433.1569	9430.5696	-9.8	10600.905 ^D	11	3.266	4.580	...	II
		4-4	1.08	8971.8800	8969.4176	6.4	11145.936 ^B	-8	3.211	4.593	...	
1010	$z^5D^o-d^8^3P$ (551*)	3-2	2.80	6788.2999	6786.4268	1.4	14731.229 ^A	-3	3.241	5.067	...	
		2-1	2.51	6739.1289	6737.2691	0.9	14838.713 ^B	-2	3.266	5.105	...	
1011	$z^5D^o-e^7D$ (552)	4-5	1.85	5911.6112	5909.9736	0.7	16915.862 ^A	-2	3.211	5.308	-2.78 ^b	
		3-4	0.00	5874.3538	5872.7261	-1.0	17023.149 ^B	3	3.241	5.351	...	
		2-3	1.40	5849.6876	5848.0665	0.0	17094.930 ^A	0	3.266	5.385	...	
		1-2	1.32	5829.4928	5827.8771	0.0	17154.151 ^A	0	3.283	5.410	-3.41 ^b	
		0-1	1.11	5809.3941	5807.7838	0.0	17213.499 ^A	0	3.292	5.426	-3.41 ^b	
		4-4	2.21	5792.6238	5791.0180	0.7	17263.334 ^A	-2	3.211	5.351	-2.23 ^a	
		1-1	1.34	5785.4986	5783.8947	0.7	17284.595 ^A	-2	3.283	5.426	...	
		2-2	1.73	5782.4074	5780.8043	0.3	17293.835 ^A	-1	3.266	5.410	...	
		3-3	2.05	5782.2031	5780.6001	0.0	17294.446 ^A	0	3.241	5.385	-2.64 ^b	
1012	$z^5D^o-e^5D$ (553)	3-4	4.22	5394.6671	5393.1676	0.0	18536.825 ^A	0	3.241	5.539	-0.91 ^b	
		2-3	4.29	5341.4147	5339.9294	0.0	18721.632 ^A	0	3.266	5.587	-0.72 ^a	
		4-4	4.89	5325.6601	5324.1790	0.0	18777.015 ^A	0	3.211	5.539	-0.24 ^b	
		3-3	4.53	5285.0913	5283.6210	0.0	18921.149 ^A	0	3.241	5.587	-0.52 ^a	
		0-1	3.89	5274.6311	5273.1636	-0.3	18958.672 ^A	1	3.292	5.642	...	
		2-2	4.06	5264.7711	5263.3063	0.0	18994.178 ^A	0	3.266	5.620	-0.97 ^b	
		1-1	3.36	5254.9240	5253.4617	-0.6	19029.771 ^A	2	3.283	5.642	-1.67 ^b	
		1-0	3.94	5231.3045	5229.8485	3.3	19115.691 ^A	-12	3.283	5.653	...	
		4-3	3.95	5218.8420	5217.3893	0.0	19161.339 ^A	0	3.211	5.587	-1.16 ^a	
		2-1	4.06	5216.6327	5215.1806	0.0	19169.454 ^A	0	3.266	5.642	...	
		3-2	4.09	5210.0442	5208.5940	0.0	19193.695 ^A	0	3.241	5.620	-0.98 ^b	
1013	$z^5D^o-e^5F$ (554)	4-5	4.26	4738.0983	4736.7734	0.4	21105.514 ^A	-2	3.211	5.828	-0.75 ^a	
		3-4	3.98	4708.5916	4707.2745	0.4	21237.773 ^A	-2	3.241	5.874	-1.08 ^b	
		2-3	3.74	4669.4412	4668.1344	0.2	21415.839 ^A	-1	3.266	5.921	...	
		4-4	3.56	4655.9318	4654.6286	-2.8	21477.978 ^A	13	3.211	5.874	...	
		1-2	3.47	4638.8020	4637.5034	0.0	21557.290 ^A	0	3.283	5.956	-1.39 ^b	
		3-3	3.54	4626.3406	4625.0453	0.2	21615.356 ^A	-1	3.241	5.921	-1.34 ^b	
		0-1	3.16	4614.4949	4613.2027	0.0	21670.844 ^A	0	3.292	5.978	-1.67 ^b	
		2-2	3.43	4608.9376	4607.6469	0.2	21696.974 ^D	-1	3.266	5.956	...	I
		1-1	3.21	4599.4054	4598.1171	0.0	21741.941 ^A	0	3.283	5.978	-1.57 ^b	
		4-3	2.49	4575.4981	4574.2162	0.4	21855.544 ^B	-2	3.211	5.921	-2.50 ^b	
		2-1	2.54	4570.0437	4568.7632	-0.6	21881.629 ^A	3	3.266	5.978	...	
		3-2	2.63	4566.9416	4565.6619	0.0	21896.492 ^A	0	3.241	5.956	-2.25 ^b	
1014	$z^5D^o-e^3F$ (555)	3-4	3.19	4582.7918	4581.5080	-0.2	21820.760 ^D	1	3.241	5.946	-1.83 ^b	I
		4-4	2.88	4532.9009	4531.6302	4.3	22060.928 ^D	-21	3.211	5.946	...	I
		2-3	2.63	4506.0942	4504.8306	0.0	22192.168 ^B	0	3.266	6.017	-2.27 ^b	
		3-3	2.37	4465.9405	4464.6875	-3.0	22391.700 ^B	15	3.241	6.017	...	
		2-2	1.95	4426.9948	4425.7521	0.8	22588.687 ^D	-4	3.266	6.066	...	
1015	$z^5D^o-e^7F$ (556)	2-3	3.22	4030.7680	4029.6293	-2.9	24809.168 ^A	18	3.266	6.341	...	
		1-2	2.64	4023.8727	4022.7358	-1.8	24851.681 ^D	11	3.283	6.364	...	I
		4-5	1.95	4010.6755	4009.5420	-1.3	24933.456 ^D	8	3.211	6.302	...	II
		2-2	2.66	4001.3832	4000.2522	-0.5	24991.358 ^D	3	3.266	6.364	-1.62 ^b	I
		3-3	2.85	3998.6141	3997.4838	0.3	25008.665 ^B	-2	3.241	6.341	...	
1016	$z^5D^o-f^7D$ (557)	0-1	2.60	4082.0290	4080.8769	0.8	24497.621 ^B	-5	3.292	6.329	-1.80 ^b	
		2-3	3.10	4077.9510	4076.8000	0.0	24522.119 ^A	0	3.266	6.306	-1.18 ^a	
		1-1	2.29	4070.2168	4069.0678	1.5	24568.716 ^D	-9	3.283	6.329	-1.89 ^b	
		2-2	2.41	4055.3222	4054.1771	-1.0	24658.953 ^C	6	3.266	6.323	-2.06 ^b	
		3-4	2.27	4053.8675	4052.7227	2.5	24667.802 ^C	-15	3.241	6.299	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1017	$z^5D^\circ - f^5D$ (558)	2-1	3.21	4047.2053	4046.0623	0.2	24708.408 ^A	-1	3.266	6.329	-1.30 ^a	
		3-3	3.43	4045.0391	4043.8966	-0.7	24721.640 ^A	4	3.241	6.306	-0.83 ^a	
		4-4	2.54	4014.7740	4013.6395	0.6	24908.002 ^B	-4	3.211	6.299	...	
		2-3	2.51	4133.1373	4131.9718	0.7	24194.696 ^C	-4	3.266	6.265	...	
		1-2	2.84	4128.9487	4127.7843	-0.5	24219.240 ^A	3	3.283	6.286	...	
		0-1	2.98	4110.2156	4109.0561	-0.5	24329.624 ^A	3	3.292	6.308	-1.56 ^a	
		2-2	3.23	4105.2718	4104.1136	0.0	24358.923 ^A	0	3.266	6.286	...	
		3-3	3.58	4099.3324	4098.1758	0.0	24394.216 ^A	0	3.241	6.265	-0.88 ^a	
		1-1	2.70	4098.2397	4097.0834	0.0	24400.720 ^B	0	3.283	6.308	-1.69 ^b	
		1-0	3.26	4081.3611	4080.2092	0.0	24501.630 ^A	0	3.283	6.321	-1.22 ^b	
		4-4	4.05	4077.7801	4076.6291	0.0	24523.147 ^A	0	3.211	6.251	-0.53 ^a	
		2-1	3.55	4074.9125	4073.7623	0.2	24540.404 ^A	-1	3.266	6.308	-0.90 ^a	
		3-2	3.70	4071.9202	4070.7707	0.3	24558.438 ^A	-2	3.241	6.286	-0.79 ^b	
		4-3	3.35	4059.3632	4058.2170	0.0	24634.406 ^D	0	3.211	6.265	-1.11 ^a	II
1018	$z^5D^\circ - e^7P$ (559)	2-3	2.45	4120.0488	4118.8868	1.0	24271.557 ^B	-6	3.266	6.275	-1.51 ^b	
		3-4	2.20	4109.2922	4108.1330	2.9	24335.091 ^C	-17	3.241	6.258	-2.14 ^b	
		3-3	3.70	4086.4563	4085.3031	0.2	24471.080 ^A	-1	3.241	6.275	-0.81 ^a	
		2-2	2.29	4078.0322	4076.8811	-0.2	24521.631 ^C	1	3.266	6.306	...	
		4-4	4.02	4069.1265	4067.9777	-0.2	24575.299 ^A	1	3.211	6.258	-0.47 ^a	
		4-3	3.54	4046.7367	4045.5939	0.3	24711.269 ^A	-2	3.211	6.275	-0.90 ^a	
		3-2	2.82	4045.1194	4043.9770	-0.3	24721.149 ^B	2	3.241	6.306	...	
1019	$z^5D^\circ - e^5G$ (560)	4-5	3.90	4031.6275	4030.4885	0.2	24803.879 ^A	-1	3.211	6.286	-0.56 ^a	
		3-4	3.71	4025.8625	4024.7250	0.2	24839.398 ^A	-1	3.241	6.320	-0.75 ^a	
		2-3	3.15	4019.4033	4018.2675	0.5	24879.315 ^A	-3	3.266	6.350	-1.23 ^a	
		1-2	2.85	4017.5546	4016.4194	-0.2	24890.763 ^B	1	3.283	6.369	-1.60 ^b	
1020	$z^5D^\circ - e^7G$ (561)	1-1	2.45	3986.0611	3984.9340	-0.6	25087.423 ^D	4	3.283	6.393	...	
		3-4	3.57	3969.0840	3967.9614	0.2	25194.730 ^A	-1	3.241	6.365	-0.89 ^a	
		3-3	2.43	3949.3937	3948.2763	-0.6	25320.342 ^D	4	3.241	6.380	...	
		4-5	3.54	3948.1120	3946.9949	0.2	25328.562 ^A	-1	3.211	6.351	-1.00 ^a	
1021	$z^5D^\circ - f^5F$ (562)	0-1	3.42	3967.6217	3966.4995	0.0	25204.016 ^A	0	3.292	6.417	...	
		1-2	3.74	3964.2218	3963.1005	-0.2	25225.632 ^A	1	3.283	6.410	-0.70 ^b	
		2-3	3.83	3958.1381	3957.0184	0.2	25264.404 ^A	-1	3.266	6.398	-0.56 ^a	
		1-1	3.38	3956.4606	3955.3413	-0.2	25275.116 ^A	1	3.283	6.417	-1.01 ^b	
		3-4	3.92	3949.2147	3948.0973	-0.2	25321.490 ^A	1	3.241	6.380	-0.56 ^a	
		2-2	3.41	3942.3909	3941.2753	-0.2	25365.318 ^A	1	3.266	6.410	-1.01 ^b	
		2-1	3.63	3934.7133	3933.5997	-1.9	25414.812 ^D	12	3.266	6.417	...	I
		3-3	3.39	3927.1248	3926.0132	0.0	25463.922 ^A	0	3.241	6.398	-0.93 ^a	
		4-4	2.83	3912.1069	3910.9991	0.9	25561.674 ^C	-6	3.211	6.380	-1.26 ^a	
1022	$z^5D^\circ - e^5S$ (563)	1-2	2.51	4053.5853	4052.4406	1.5	24669.519 ^C	-9	3.283	6.341	...	
1023	$z^5D^\circ - e^3D$ (564)	2-3	2.27	4007.2902	4006.1576	0.5	24954.519 ^C	-3	3.266	6.359	...	
		3-3	2.70	3975.5050	3974.3807	0.3	25154.037 ^C	-2	3.241	6.359	-1.90 ^b	
		2-2	2.61	3936.9747	3935.8605	1.4	25400.214 ^C	-9	3.266	6.415	...	
		2-1	2.61	3891.0224	3889.9202	1.2	25700.186 ^C	-8	3.266	6.452	...	
1024	$z^5D^\circ - g^5D$ (565)	3-4	3.06	3966.6308	3965.5088	0.0	25210.312 ^B	0	3.241	6.366	-1.78 ^a	
		2-3	3.32	3932.2302	3931.1172	-0.3	25430.861 ^B	2	3.266	6.419	-1.14 ^b	
		4-4	3.79	3929.1951	3928.0829	-0.5	25450.505 ^A	3	3.211	6.366	-0.93 ^a	
		1-2	3.28	3910.7649	3909.6576	-0.8	25570.445 ^B	5	3.283	6.453	-1.22 ^b	
		3-3	3.49	3901.6200	3900.5150	-0.5	25630.379 ^D	3	3.241	6.419	-0.92 ^b	II
		2-2	3.32	3889.5181	3888.4162	0.0	25710.126 ^B	0	3.266	6.453	...	
		1-0	3.18	3879.2811	3878.1819	-1.5	25777.972 ^D	10	3.283	6.479	...	
		2-1	2.79	3864.7860	3863.6906	-0.9	25874.654 ^C	6	3.266	6.474	...	
1025	$z^5D^\circ - e^7S$ (566)	2-3	2.61	3963.4731	3962.3520	0.3	25230.397 ^C	-2	3.266	6.394	-1.73 ^b	
1026	$z^5D^\circ - e^5P$ (567)	0-1	3.14	3926.3119	3925.2005	-0.9	25469.194 ^B	6	3.292	6.449	-1.40 ^b	
		2-3	3.04	3921.9473	3920.8370	0.3	25497.538 ^D	-2	3.266	6.427	-1.33 ^a	II
		1-1	3.22	3915.3816	3914.2730	-1.4	25540.295 ^B	9	3.283	6.449	-1.43 ^b	
		2-1	2.70	3894.0852	3892.9822	-0.2	25679.972 ^C	1	3.266	6.449	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1027	$z^5D^o - g^5F$ (568)	3-3	2.85	3891.4982	3890.3958	2.1	25697.044 ^B	-14	3.241	6.427	-1.58 ^a	
		3-2	3.27	3856.9387	3855.8454	-1.5	25927.298 ^B	10	3.241	6.455	...	
		4-3	3.35	3855.4596	3854.3666	0.4	25937.245 ^B	-3	3.211	6.427	-1.10 ^a	
		4-5	3.27	3681.7054	3680.6575	0.0	27161.326 ^D	0	3.211	6.579	...	II
		3-4	3.10	3669.2552	3668.2105	0.5	27253.487 ^D	-4	3.241	6.620	-1.26 ^b	II
		2-3	3.06	3637.5176	3636.4811	0.1	27491.276 ^B	-1	3.266	6.674	...	
		4-4	3.61	3637.1978	3636.1614	-1.6	27493.693 ^D	12	3.211	6.620	...	I
		3-3	2.91	3611.3082	3610.2785	-0.3	27690.796 ^B	2	3.241	6.674	...	
		1-2	2.53	3599.9559	3598.9291	0.0	27778.118 ^D	0	3.283	6.727	...	
		0-1	2.84	3592.5089	3591.4840	0.6	27835.700 ^C	-5	3.292	6.743	-1.46 ^b	
1028	$z^5D^o - h^5D$ (569)	4-4	3.32	3669.0308	3667.9862	-0.1	27255.154 ^D	1	3.211	6.590	...	I
		3-3	5.99	3648.8822	3647.8428	-0.3	27405.653 ^D	2	3.241	6.639	...	I
		4-3	3.00	3617.1796	3616.1483	-0.9	27645.849 ^C	7	3.211	6.639	-1.38 ^b	
		1-1	2.88	3616.2222	3615.1912	0.0	27653.168 ^C	0	3.283	6.711	-1.47 ^b	
		2-1	2.74	3598.0474	3597.0211	0.0	27792.852 ^C	0	3.266	6.711	-1.00 ^b	
		3-2	2.97	3593.7001	3592.6749	0.9	27826.473 ^B	-7	3.241	6.691	-1.41 ^b	
1029	$z^5D^o - f^5P$ (570)	4-3	3.59	3668.2976	3667.2531	0.0	27260.602 ^A	0	3.211	6.591	-0.71 ^b	
		3-2	3.25	3645.8338	3644.7951	0.3	27428.568 ^B	-2	3.241	6.641	-1.11 ^b	
		2-1	3.10	3625.0954	3624.0621	2.8	27585.481 ^C	-21	3.266	6.686	-1.50 ^b	
1030	$z^5D^o - f^5G$ (571)	1-2	4.10	3619.4177	3618.3858	5.8	27628.754 ^D	-44	3.283	6.741	...	I
		2-3	3.10	3594.3481	3593.3227	-2.2	27821.457 ^B	17	3.266	6.715	-1.41 ^b	
		1-2	2.84	3584.7047	3583.6818	-1.0	27896.301 ^C	8	3.283	6.741	...	
1031	$z^5D^o - f^3D$ (574)	3-3	2.58	3622.2292	3621.1966	1.3	27607.309 ^D	-10	3.241	6.664	...	
		1-1	2.49	3575.2644	3574.2440	0.5	27969.959 ^D	-4	3.283	6.751	...	Ne
1032	$z^5D^o - s^6D6s^5D$	4-4	2.99	3498.9604	3497.9595	-0.9	28579.918 ^C	7	3.211	6.754	...	
		3-3	2.51	3481.3338	3480.3375	3.2	28724.623 ^D	-26	3.241	6.802	...	
1033	$z^5D^o - ^4F6s^5F$	2-3	0	3208.114	3207.188	0.0	31170.96 ^D	0	3.266	7.130	...	
		0-1	0	3204.756	3203.831	0.0	31203.62 ^D	0	3.292	7.160	...	II
		1-1	0	3197.473	3196.549	1.0	31274.70 ^D	-10	3.283	7.160	...	
		3-3	0*	3187.708	3186.787	-1.0	31370.50 ^D	10	3.241	7.130	...	
		2-1	d0?	3183.257	3182.336	3.0	31414.37 ^D	-30	3.266	7.160	...	
		4-3	0	3163.484	3162.568	-4.0	31610.72 ^D	40	3.211	7.130	...	
1034	$z^5D^o - s^6D5d^5G$	3-3	d0	3234.638	3233.705	7.3	30915.36 ^D	-70	3.241	7.074	...	
		4-3	d0?	3209.689	3208.762	-4.1	31155.67 ^D	40	3.211	7.074	...	
1035	$z^5D^o - s^6D5d^7F$	3-2	d0*	3237.352	3236.418	0.0	30889.44 ^D	0	3.241	7.071	...	
		4-5	1	3231.780	3230.847	4.2	30942.70 ^D	-40	3.211	7.047	...	
		3-4	2.87	3208.5085	3207.5817	0.8	31167.130 ^C	-8	3.241	7.105	...	
1036	$z^5D^o - s^6D5d^7D$	3-3	0	3233.094	3232.161	7.3	30930.12 ^D	-70	3.241	7.076	...	I
		4-3	0	3208.170	3207.243	-4.1	31170.42 ^D	40	3.211	7.076	...	
1037	$z^5D^o - s^6D5d^7G$	1-1	0	3242.443	3241.508	2.1	30840.94 ^D	-20	3.283	7.107	...	I
		2-1	d0?	3227.824	3226.893	2.1	30980.62 ^D	-20	3.266	7.107	...	
		3-4	3*	3224.186	3223.255	9.4	31015.58 ^D	-90	3.241	7.086	...	
		4-5	0	3202.371	3201.446	-2.1	31226.86 ^D	20	3.211	7.083	...	
		4-4	2	3199.400	3198.476	0.0	31255.86 ^D	0	3.211	7.086	...	
1038	$z^5D^o - s^6D5d^5F$	3-2	d0	3245.484	3244.547	-1.1	30812.05 ^D	10	3.241	7.061	...	
		4-3	2	3243.922	3242.986	2.1	30826.88 ^D	-20	3.211	7.033	...	
		4-5	1	3240.242	3239.307	0.0	30861.89 ^D	0	3.211	7.037	...	
		3-4	d0	3227.367	3226.436	5.2	30985.01 ^D	-50	3.241	7.082	...	
		4-4	0	3202.538	3201.613	2.1	31225.23 ^D	-20	3.211	7.082	...	
1039	$z^5D^o - ^4F6s^3F$	2-3	d0?	3238.431	3237.497	-2.1	30879.15 ^D	20	3.266	7.094	...	
		4-4	d0?	3235.383	3234.450	3.1	30908.24 ^D	-30	3.211	7.043	...	
		3-3	3	3217.647	3216.718	3.1	31078.61 ^D	-30	3.241	7.094	...	
		2-2	d0?	3179.527	3178.607	0.0	31451.22 ^D	0	3.266	7.165	...	
		3-2	d0?	3159.482	3158.567	-3.0	31650.76 ^D	30	3.241	7.165	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1040	$z^5D^\circ - s^6D5d^5P$	4-3	0	3198.957	3198.033	-3.1	31260.19 ^D	30	3.211	7.087	...	
		3-2	d0?	3198.673	3197.749	0.0	31262.96 ^D	0	3.241	7.117	...	
1041	$z^5D^\circ - s^4D4d^5F$	4-5	5	3148.513	3147.601	-5.9	31761.03 ^D	60	3.211	7.149	...	II
		2-3	2.92	3145.4075	3144.4967	-0.1	31792.383 ^B	1	3.266	7.207	...	
		0-1	9	3143.366	3142.456	-7.9	31813.03 ^D	80	3.292	7.236	...	I
		1-1	2.40	3136.3659	3135.4573	0.5	31884.035 ^C	-5	3.283	7.236	...	
		3-4	3.13	3127.0827	3126.1765	0.7	31978.687 ^A	-7	3.241	7.206	...	
		3-3	5	3125.792	3124.886	1.0	31991.89 ^D	-10	3.241	7.207	...	
		2-1	5	3122.682	3121.777	-2.0	32023.75 ^D	20	3.266	7.236	...	
		1-2	2.81	3121.7803	3120.8754	-0.1	32033.004 ^B	1	3.283	7.254	...	
		2-2	I	3108.234	3107.333	6.8	32172.61 ^D	-70	3.266	7.254	...	
		4-4	2.59	3103.7695	3102.8692	-0.4	32218.887 ^D	4	3.211	7.206	...	II
		4-3	2.34	3102.5002	3101.6001	1.9	32232.069 ^D	-20	3.211	7.207	...	
		3-2	0*	3089.068	3088.172	-1.0	32372.22 ^D	10	3.241	7.254	...	
1042	$z^5D^\circ - i^5D$ (578*)	2-3	4	3177.201	3176.283	0.0	31474.24 ^D	0	3.266	7.168	...	
		1-2	1	3175.136	3174.218	4.0	31494.71 ^D	-40	3.283	7.188	...	
		3-4	2.87	3168.8376	3167.9209	-0.1	31557.313 ^B	1	3.241	7.153	...	
		2-2	2.78	3161.1113	3160.1965	-0.7	31634.445 ^B	7	3.266	7.188	...	
		3-3	3.10	3157.1876	3156.2738	0.1	31673.759 ^B	-1	3.241	7.168	-0.18 ^a	
		4-4	3.29	3144.9012	3143.9905	0.0	31797.501 ^A	0	3.211	7.153	-0.09 ^a	
		3-2	2.92	3141.2996	3140.3898	-0.2	31833.958 ^B	2	3.241	7.188	...	
		4-3	2.83	3133.4258	3132.5180	-0.2	31913.952 ^B	2	3.211	7.168	-0.46 ^a	
1043	$z^5D^\circ - s^6D7s^7D$	1-1	d0?	3097.874	3096.975	0.0	32280.20 ^D	0	3.283	7.285	...	
		4-4	d5	3096.165	3095.267	-8.6	32298.02 ^D	90	3.211	7.215	...	I
		4-3	1	3069.343	3068.451	4.7	32580.26 ^D	-50	3.211	7.250	...	
1044	$z^5D^\circ - g^5G$	1-2	0	3091.626	3090.729	1.9	32345.44 ^D	-20	3.283	7.293	...	
		2-3	2	3089.243	3088.346	-3.8	32370.39 ^D	40	3.266	7.279	...	
		4-5	0	3089.141	3088.244	1.0	32371.46 ^D	-10	3.211	7.224	...	
		3-4	2	3088.331	3087.434	2.9	32379.95 ^D	-30	3.241	7.255	...	
		3-3	5	3070.332	3069.440	8.5	32569.77 ^D	-90	3.241	7.279	...	
		4-4	d0?	3065.586	3064.695	-0.9	32620.19 ^D	10	3.211	7.255	...	
1045	$z^5D^\circ - s^4D4d^5P$ (578a*)	1-2	2.63	3151.2191	3150.3068	-0.9	31733.750 ^C	9	3.283	7.217	...	
		2-2	2.69	3137.4096	3136.5008	-0.3	31873.428 ^C	3	3.266	7.217	...	
		3-2	0	3117.901	3116.997	7.8	32072.86 ^D	-80	3.241	7.217	...	
		2-3	2.66	3111.1781	3110.2759	-0.9	32142.165 ^C	9	3.266	7.251	...	
		3-3	4	3091.987	3091.090	1.0	32341.66 ^D	-10	3.241	7.251	...	
		4-3	d0?	3069.192	3068.301	0.0	32581.86 ^D	0	3.211	7.251	...	
1046	$z^5D^\circ - s^6D7s^5D$	3-4	0	3107.413	3106.512	8.7	32181.11 ^D	-90	3.241	7.231	...	
		4-4	0	3084.385	3083.490	1.9	32421.37 ^D	-20	3.211	7.231	...	
		1-2	0	3071.586	3070.694	-8.5	32556.47 ^D	90	3.283	7.319	...	II
		2-2	d0	3058.473	3057.584	0.9	32696.05 ^D	-10	3.266	7.319	...	II
1047	$z^5D^\circ - ^4F5d^5F$	3-4	d0?	3081.485	3080.590	0.0	32451.89 ^D	0	3.241	7.264	...	
		4-5	3	3058.927	3058.038	0.9	32691.20 ^D	-10	3.211	7.264	...	
		4-4	2	3058.847	3057.958	1.9	32692.06 ^D	-20	3.211	7.264	...	
1048	$z^5D^\circ - s^4D4d^3D$	2-3	d0?	3091.899	3091.002	3.8	32342.58 ^D	-40	3.266	7.275	...	
		1-2	0	3076.890	3075.996	8.5	32500.35 ^D	-90	3.283	7.312	...	II
		3-3	2	3072.939	3072.046	0.0	32542.14 ^D	0	3.241	7.275	...	
		2-2	0	3063.716	3062.826	1.9	32640.10 ^D	-20	3.266	7.312	...	
		4-3	2	3050.425	3049.538	0.9	32782.32 ^D	-10	3.211	7.275	...	
		3-2	0	3045.102	3044.217	1.9	32839.62 ^D	-20	3.241	7.312	...	
1049	$z^5D^\circ - 59077^e$	1-1	0	3067.704	3066.813	2.9	32597.67 ^D	-31	3.283	7.324	...	
1050	$z^5D^\circ - s^6D_{4.5}6d [3.5]$	2-3	d0?	3038.426	3037.542	-7.4	32911.78 ^D	80	3.266	7.346	...	
	$z^5D^\circ - s^6D_{4.5}6d [5.5]$	4-5	I	3004.562	3003.687	0.9	33282.72 ^D	-10	3.211	7.337	...	
	$z^5D^\circ - s^6D_{4.5}6d [2.5]$	4-3	d1	3001.452	3000.577	0.0	33317.21 ^D	0	3.211	7.342	...	
	$z^5D^\circ - s^6D_{4.5}6d [3.5]$	4-4	3	2999.804	2998.930	-0.9	33335.51 ^D	10	3.211	7.344	...	I
1051	$z^5D^\circ - s^4D4d^3S$	1-1	0	3060.419	3059.530	0.9	32675.26 ^D	-10	3.283	7.334	...	
		2-1	d0?	3047.392	3046.505	0.9	32814.95 ^D	-10	3.266	7.334	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1052	$z^5D^o - 59390^e$	3-3	1	3007.473	3006.596	-0.6	33250.51 ^D	7	3.241	7.363	...	
1053	$z^5D^o - s^6D_{3.56d}$ [1.5]	1-1	d0	3020.101	3019.221	0.0	33111.48 ^D	0	3.283	7.388	...	
	$z^5D^o - s^6D_{3.56d}$ [2.5]	2-2	0	3014.367	3013.489	-1.8	33174.46 ^D	20	3.266	7.379	...	
	$z^5D^o - s^6D_{3.56d}$ [3.5]	2-3	2*	3013.811	3012.933	1.8	33180.58 ^D	-20	3.266	7.379	...	I
	$z^5D^o - s^6D_{3.56d}$ [2.5]	2-3	1	3012.149	3011.271	0.0	33198.89 ^D	0	3.266	7.382	...	
	$z^5D^o - s^6D_{3.56d}$ [1.5]	2-2	0	3009.360	3008.483	0.9	33229.66 ^D	-10	3.266	7.385	...	
	$z^5D^o - s^6D_{3.56d}$ [1.5]	2-1	2	3007.416	3006.539	0.9	33251.14 ^D	-10	3.266	7.388	...	
	$z^5D^o - s^6D_{3.56d}$ [3.5]	3-4	3	2999.804	2998.930	-4.5	33335.51 ^D	50	3.241	7.374	...	I
	$z^5D^o - s^6D_{3.56d}$ [2.5]	3-2	1	2996.349	2995.475	0.0	33373.95 ^D	0	3.241	7.379	...	
	$z^5D^o - s^6D_{3.56d}$ [4.5]	3-4	3	2994.665	2993.792	-4.5	33392.72 ^D	50	3.241	7.381	...	
	$z^5D^o - s^6D_{3.56d}$ [2.5]	3-3	d0?	2994.154	2993.281	0.0	33398.42 ^D	0	3.241	7.382	...	
	$z^5D^o - s^6D_{3.56d}$ [4.5]	4-5	1	2979.424	2978.555	0.0	33563.53 ^D	0	3.211	7.372	...	
	$z^5D^o - s^6D_{3.56d}$ [4.5]	4-4	d0	2973.284	2972.416	0.0	33632.85 ^D	0	3.211	7.381	...	
1054	$z^5D^o - 5D_{4p^2}^7F$	3-4	0	2982.885	2982.015	-5.3	33524.59 ^D	60	3.241	7.397	...	
		4-4	d0	2961.668	2960.803	-3.5	33764.76 ^D	40	3.211	7.397	...	
		1-2	d1	2936.538	2935.679	1.7	34053.71 ^D	-20	3.283	7.505	...	G
1055	$z^5D^o - s^6D_{2.56d}$ [1.5]	0-1	d0	3010.558	3009.681	0.9	33216.43 ^D	-10	3.292	7.410	...	
	$z^5D^o - s^6D_{2.56d}$ [1.5]	1-1	1	3004.126	3003.251	0.0	33287.55 ^D	0	3.283	7.410	...	
	$z^5D^o - s^6D_{2.56d}$ [0.5]	2-1	d0?	2994.947	2994.074	-8.1	33389.57 ^D	90	3.266	7.405	...	
	$z^5D^o - s^6D_{2.56d}$ [1.5]	2-2	0?	2990.359	2989.487	-0.9	33440.80 ^D	10	3.266	7.412	...	
	$z^5D^o - s^6D_{2.56d}$ [2.5]	2-3	1	2986.772	2985.901	0.0	33480.96 ^D	0	3.266	7.417	...	
	$z^5D^o - s^6D_{2.56d}$ [2.5]	2-2	0	2984.727	2983.857	-2.7	33503.90 ^D	30	3.266	7.419	...	
	$z^5D^o - s^6D_{2.56d}$ [4.5]	3-4	d0	2977.454	2976.585	-0.9	33585.74 ^D	10	3.241	7.405	...	
	$z^5D^o - s^6D_{2.56d}$ [1.5]	3-2	3	2972.628	2971.760	2.7	33640.27 ^D	-30	3.241	7.412	...	
	$z^5D^o - s^6D_{2.56d}$ [2.5]	3-2	3	2967.064	2966.198	2.6	33703.35 ^D	-30	3.241	7.419	...	I
	$z^5D^o - s^6D_{2.56d}$ [2.5]	3-2	2.46	2967.0637	2966.1974	2.4	33703.355 ^D	-27	3.241	7.419	...	I
	$z^5D^o - s^6D_{2.56d}$ [3.5]	3-3	1	2963.272	2962.407	3.5	33746.48 ^D	-40	3.241	7.425	...	
1056	$z^5D^o - s^6D_{1.56d}$ [0.5]	1-1	1	2986.039	2985.168	-2.7	33489.18 ^D	30	3.283	7.435	...	
	$z^5D^o - s^6D_{1.56d}$ [1.5]	1-1	0	2983.250	2982.380	-6.2	33520.49 ^D	70	3.283	7.439	...	
	$z^5D^o - s^6D_{1.56d}$ [2.5]	1-2	2.00	2975.6462	2974.7778	-2.2	33606.146 ^D	25	3.283	7.449	...	I
	$z^5D^o - s^6D_{1.56d}$ [0.5]	2-1	d0?	2973.642	2972.774	1.8	33628.80 ^D	-20	3.266	7.435	...	
	$z^5D^o - s^6D_{1.56d}$ [1.5]	2-2	5.14	2967.7650	2966.8986	-3.9	33695.390 ^D	44	3.266	7.443	...	I
	$z^5D^o - s^6D_{1.56d}$ [2.5]	2-3	0?	2964.170	2963.304	-2.6	33736.26 ^D	30	3.266	7.448	...	
	$z^5D^o - s^6D_{1.56d}$ [2.5]	2-2	0?	2963.326	2962.461	-4.4	33745.86 ^D	50	3.266	7.449	...	II
	$z^5D^o - s^6D_{1.56d}$ [3.5]	2-3	1	2962.314	2961.449	-5.3	33757.39 ^D	60	3.266	7.451	...	
	$z^5D^o - s^6D_{1.56d}$ [2.5]	3-2	2.75	2945.9125	2945.0516	-1.4	33945.339 ^B	16	3.241	7.449	...	
1057	$z^5D^o - s^6D_{0.56d}$ [1.5]	0-1	d0	2973.724	2972.856	-8.0	33627.87 ^D	90	3.292	7.461	...	II
	$z^5D^o - s^6D_{0.56d}$ [1.5]	1-2	d0?	2971.838	2970.971	0.9	33649.21 ^D	-10	3.283	7.455	...	
	$z^5D^o - s^6D_{0.56d}$ [1.5]	1-1	d0?	2967.465	2966.598	6.2	33698.80 ^D	-70	3.283	7.461	...	
	$z^5D^o - s^6D_{0.56d}$ [1.5]	2-2	d0?	2959.543	2958.679	-7.9	33789.00 ^D	90	3.266	7.455	...	
	$z^5D^o - s^6D_{0.56d}$ [1.5]	2-1	2.04	2955.2076	2954.3443	-1.2	33838.570 ^D	14	3.266	7.461	...	I
1058	$z^5D^o - 62192^e$	4-5	d0?	2755.366	2754.552	-5.3	36292.82 ^D	70	3.211	7.711	...	
1059	$b^3H - z^5G^o$	5-4	1.68	11228.029	11224.956	3	8906.282 ^A	-2	3.267	4.371	...	
		4-3	1.23	11130.882	11127.834	1	8984.014 ^A	-1	3.301	4.415	...	
1060	$b^3H - z^3G^o$ (579)	6-5	2.20	10783.647	10780.694	-1	9273.300 ^A	1	3.237	4.386	...	
		5-4	1.80	10619.632	10616.723	2	9416.522 ^A	-2	3.267	4.434	...	
		4-3	1.91	10580.039	10577.141	1	9451.761 ^A	-1	3.301	4.473	...	
1061	$b^3H - z^5H^o$ (581)	4-4	0.78	6067.4803	6065.8009	0.4	16481.306 ^B	-1	3.301	5.345	...	
		5-5	0.78	6009.3788	6007.7150	0.4	16640.655 ^A	-1	3.267	5.330	...	
		4-3	1.00	5988.6146	5986.9563	0.0	16698.353 ^A	0	3.301	5.372	...	
		5-4	0.30	5967.3469	5965.6943	3.2	16757.866 ^B	-9	3.267	5.345	...	
		6-6	1.18	5953.1024	5951.4536	-4.3	16797.964 ^A	12	3.237	5.319	...	
		6-5	0.30	5922.1435	5920.5030	3.2	16885.778 ^B	-9	3.237	5.330	...	
1062	$b^3H - z^5I^o$	4-4	0.00	5947.0375	5945.3903	0.0	16815.095 ^B	0	3.301	5.386	...	
		4-5	0.00	5940.8857	5939.2402	1.1	16832.507 ^B	-3	3.301	5.388	...	
		5-4	1.00	5850.8064	5849.1850	0.7	17091.661 ^A	-2	3.267	5.386	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	$\sigma-R^4$ (mÅ)	σ^5 (cm ⁻¹)	$\sigma-R^6$ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1063	$b^3H-y^3G^\circ$ (584)	5-5	0.00	5844.8466	5843.2268	-3.1	17109.089 ^C	9	3.267	5.388	...	I
		6-5	0.70	5762.2912	5760.6935	1.3	17354.208 ^D	-4	3.237	5.388	...	
		5-4	1.85	5241.8141	5240.3553	-1.1	19077.365 ^C	4	3.267	5.632	...	
		6-5	2.41	5211.3353	5209.8847	-0.8	19188.940 ^B	3	3.237	5.616	-3.26 ^b	
1064	$b^3H-z^3I^\circ$ (585)	4-5	2.29	5126.0477	5124.6198	0.5	19508.207 ^B	-2	3.301	5.720	-2.96 ^b	
		5-6	2.50	5082.3524	5080.9361	0.3	19675.928 ^A	-1	3.267	5.706	-3.09 ^b	
		5-5	2.51	5054.3903	5052.9814	-0.3	19784.780 ^B	1	3.267	5.720	...	
		6-7	2.79	5032.1816	5030.7786	0.5	19872.097 ^A	-2	3.237	5.700	-2.83 ^a	
1065	$b^3H-u^5D^\circ$ (586)	4-4	2.18	4976.8004	4975.4122	0.0	20093.231 ^B	0	3.301	5.792	...	
1066	$b^3H-x^3F^\circ$ (587)	4-4	2.36	4935.4612	4934.0839	0.2	20261.531 ^A	-1	3.301	5.813	...	
1067	$b^3H-z^3H^\circ$ (588)	4-5	1.48	4906.5857	4905.2161	-2.4	20380.771 ^C	10	3.301	5.828	...	
		4-4	3.45	4883.0812	4881.7178	0.0	20478.873 ^A	0	3.301	5.840	-1.78 ^a	
		5-5	3.49	4840.8967	4839.5445	0.0	20657.330 ^A	0	3.267	5.828	-1.82 ^a	
		6-6	3.54	4790.0956	4788.7569	0.2	20876.410 ^A	-1	3.237	5.825	-1.76 ^a	
1068	$b^3H-w^5G^\circ$	4-5	1.78	4809.4017	4808.0579	2.3	20792.607 ^C	-10	3.301	5.879	...	I
		5-5	1.78	4746.2699	4744.9428	2.3	21069.177 ^C	-10	3.267	5.879	...	
		6-6	1.90	4704.2285	4702.9125	-0.9	21257.471 ^C	4	3.237	5.872	...	
		6-5	2.00	4691.6823	4690.3697	0.4	21314.316 ^D	-2	3.237	5.879	...	
1069	$b^3H-z^1G^\circ$ (590)	4-4	2.06	4801.8959	4800.5540	-0.5	20825.108 ^B	2	3.301	5.883	...	
		5-4	2.71	4738.9605	4737.6354	0.4	21101.674 ^A	-2	3.267	5.883	-2.25 ^a	
1070	$b^3H-v^5F^\circ$	6-5	2.34	4651.1184	4649.8165	0.0	21500.205 ^B	0	3.237	5.902	-2.69 ^b	
1071	$b^3H-x^3G^\circ$ (591)	4-3	2.38	4715.5104	4714.1915	-0.4	21206.612 ^B	2	3.301	5.930	...	
		4-5	1.30	4715.4368	4714.1179	-0.7	21206.943 ^C	3	3.301	5.931	-2.67 ^b	
		5-4	2.09	4659.5988	4658.2947	0.4	21461.075 ^B	-2	3.267	5.928	-3.04 ^b	
		6-5	2.57	4602.2230	4600.9340	2.1	21728.630 ^B	-10	3.237	5.931	-2.57 ^a	
1072	$b^3H-y^5H^\circ$ (593*)	5-6	2.12	4650.2786	4648.9769	3.0	21504.088 ^C	-14	3.267	5.933	...	Ne
		4-5	2.37	4628.8427	4627.5467	-0.4	21603.672 ^B	2	3.301	5.980	...	
		4-4	1.85	4601.0302	4599.7415	1.7	21734.263 ^C	-8	3.301	5.996	...	
		6-6	2.22	4597.8627	4596.5748	-0.4	21749.236 ^B	2	3.237	5.933	...	
		4-3	2.43	4577.0625	4575.7802	0.4	21848.074 ^B	-2	3.301	6.010	...	
		5-5	3.01	4570.3361	4569.0555	2.1	21880.229 ^D	-10	3.267	5.980	...	
		5-4	2.08	4543.2149	4541.9416	-1.0	22010.845 ^B	5	3.267	5.996	-3.13 ^b	
		6-5	2.23	4519.6992	4518.4321	0.8	22125.366 ^B	-4	3.237	5.980	-3.20 ^b	
1073	$b^3H-z^1H^\circ$ (594)	4-5	3.27	4596.6461	4595.3586	0.2	21754.992 ^D	-1	3.301	5.998	-1.76 ^a	II
		5-5	2.40	4538.9457	4537.6734	2.7	22031.548 ^D	-13	3.267	5.998	-2.88 ^b	
		6-5	2.04	4488.9954	4487.7364	-1.0	22276.699 ^C	5	3.237	5.998	-2.84 ^b	
1074	$b^3H-y^1G^\circ$ (595)	4-4	2.85	4530.0269	4528.7570	0.0	22074.924 ^A	0	3.301	6.038	-1.99 ^a	
1075	$b^3H-w^3F^\circ$ (596)	4-4	2.02	4448.1441	4446.8958	-0.2	22481.286 ^C	1	3.301	6.089	...	
1076	$b^3H-n^7D^\circ$	5-4	2.26	4308.9162	4307.7046	0.2	23207.692 ^C	-1	3.267	6.144	...	
1077	$b^3H-y^3H^\circ$ (597)	5-6	2.30	4332.1696	4330.9519	-0.2	23083.122 ^B	1	3.267	6.129	...	I
		4-4	2.90	4329.1203	4327.9034	-0.2	23099.381 ^A	1	3.301	6.165	-1.74 ^a	
		5-5	4.80	4300.4444	4299.2349	-4.8	23253.411 ^D	26	3.267	6.150	...	
		6-6	3.62	4286.6478	4285.4420	0.4	23328.252 ^A	-2	3.237	6.129	-1.20 ^a	
1078	$b^3H-v^3G^\circ$ (598)	4-4	3.16	4347.7745	4346.5526	0.2	23000.273 ^A	-1	3.301	6.153	-1.72 ^a	II
		5-5	2.86	4327.1564	4325.9400	-0.9	23109.865 ^A	5	3.267	6.132	-1.83 ^a	
		6-5	2.64	4281.7441	4280.5396	4.2	23354.969 ^D	-23	3.237	6.132	-2.07 ^b	
1079	$b^3H-z^1F^\circ$	4-3	2.20	4173.7497	4172.5735	-0.7	23959.271 ^C	4	3.301	6.272	...	
1080	$b^3H-x^1G^\circ$ (599)	4-4	3.02	4169.0336	4167.8587	-0.2	23986.374 ^A	1	3.301	6.275	-1.86 ^a	
1081	$b^3H-x^3H^\circ$ (601)	5-6	2.47	4053.1578	4052.0133	-0.2	24672.121 ^C	1	3.267	6.326	...	
		5-5	2.60	4045.6873	4044.5447	-0.3	24717.679 ^B	2	3.267	6.331	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	$\sigma-R^4$ (mÅ)	σ^5 (cm ⁻¹)	$\sigma-R^6$ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1082	$b^3H-v^3F^\circ$ (603)	6-6	2.49	4013.2832	4012.1490	-0.3	24917.255 ^B	2	3.237	6.326	...	
		6-5	3.54	4005.9597	4004.8275	0.2	24962.807 ^A	-1	3.237	6.331	...	
		4-3	2.96	4042.4135	4041.2717	0.7	24737.697 ^B	-4	3.301	6.368	...	
		5-4	3.68	4007.4434	4006.3108	-0.3	24953.565 ^A	2	3.267	6.361	-0.99 ^b	
1083	$b^3H-u^3G^\circ$ (604)	4-3	4.17	3968.5431	3967.4206	-0.2	25198.164 ^A	1	3.301	6.425	-0.60 ^a	
		6-5	4.37	3957.5750	3956.4554	0.2	25267.999 ^A	-1	3.237	6.369	-0.34 ^a	
		5-4	4.31	3949.8925	3948.7749	-0.2	25317.145 ^A	1	3.267	6.406	-0.36 ^a	
1084	$b^3H-Hsp3^1H^\circ$ (606*)	5-5	2.66	3955.8319	3954.7127	0.5	25279.133 ^D	-3	3.267	6.401	...	II
		6-5	4.23	3917.8402	3916.7310	0.2	25524.267 ^A	-1	3.237	6.401	-0.60 ^a	
1085	$b^3H-w^3H^\circ$ (607)	4-4	4.36	3825.3889	3824.3037	-0.1	26141.133 ^A	1	3.301	6.542	...	
		5-5	4.51	3807.7763	3806.6957	0.0	26262.047 ^A	0	3.267	6.523	0.02 ^a	
		6-6	4.63	3798.5931	3797.5149	0.1	26325.536 ^A	-1	3.237	6.500	0.11 ^a	
		6-5	2.83	3772.5630	3771.4916	0.3	26507.178 ^D	-2	3.237	6.523	-1.85 ^b	I
1086	$b^3H-y^3I^\circ$ (608)	5-6	4.81	3822.2622	3821.1778	0.1	26162.517 ^A	-1	3.267	6.511	0.20 ^a	
		4-5	4.87	3806.4228	3805.3426	0.1	26271.385 ^D	-1	3.301	6.558	0.31 ^a	I
		6-6	3.20	3786.7815	3785.7063	0.0	26407.650 ^B	0	3.237	6.511	-1.37 ^a	
		5-5	3.03	3766.7700	3765.7001	1.6	26547.944 ^D	-11	3.267	6.558	-1.26 ^a	II
		6-7	5.06	3766.6089	3765.5389	0.1	26549.080 ^A	-1	3.237	6.528	0.48 ^a	
1087	$b^3H-^4F5p^3G^\circ$	6-5	3.79	3745.1670	3744.1026	1.5	26701.079 ^D	-11	3.237	6.547	...	I
		5-4	3.36	3614.4740	3613.4434	-0.5	27666.543 ^D	4	3.267	6.697	...	I
		4-3	3.56	3606.2295	3605.2010	0.0	27729.794 ^D	0	3.301	6.739	...	II
1088	$b^3H-Gsp3^3F^\circ$	5-4	2.64	3759.0345	3757.9665	1.4	26602.576 ^C	-10	3.267	6.565	...	
1089	$b^3H-^4F5p^5G^\circ$	5-4	3.43	3636.2214	3635.1852	-0.5	27501.076 ^B	4	3.267	6.677	...	
		4-3	3.11	3635.4324	3634.3965	0.0	27507.044 ^B	0	3.301	6.712	...	
1090	$b^3H-z^1I^\circ$ (609)	5-6	4.54	3739.3680	3738.3051	0.0	26742.487 ^A	0	3.267	6.583	-0.03 ^a	
		6-6	2.71	3705.4039	3704.3499	1.1	26987.611 ^C	-8	3.237	6.583	...	
1091	$b^3H-y^1H^\circ$	6-5	3.25	3675.4527	3674.4064	-0.8	27207.533 ^B	6	3.237	6.610	...	
1092	$b^3H-^4F5p^3F^\circ$	5-4	3.20	3706.7523	3705.6979	-0.3	26977.794 ^B	2	3.267	6.612	...	
		4-3	3.21	3615.1430	3614.1123	0.0	27661.423 ^B	0	3.301	6.731	...	
1093	$b^3H-^4F5p^5D^\circ$	4-3	3.05	3682.2733	3681.2252	0.1	27157.137 ^B	-1	3.301	6.668	...	
1094	$b^3H-Dsp3^5F^\circ$	5-4	3.13	3632.2994	3631.2643	-0.8	27530.770 ^B	6	3.267	6.680	...	
		6-5	4.37	3583.2224	3582.1999	0.0	27907.841 ^A	0	3.237	6.697	-0.30 ^a	
1095	$b^3H-x^1F^\circ$	4-3	3.49	3685.1865	3684.1376	-0.1	27135.669 ^A	1	3.301	6.666	-0.88 ^a	
1096	$b^3H-^4F5p^3D^\circ$	4-3	2.96	3675.0869	3674.0407	-0.1	27210.241 ^B	1	3.301	6.675	...	
1097	$b^3H-Dsp3^5D^\circ$ (613a*)	5-4	3.68	3577.7798	3576.7587	0.4	27950.295 ^A	-3	3.267	6.732	-0.78 ^b	
1098	$b^3H-t^3G^\circ$ (611)	6-5	4.70	3587.1361	3586.1126	-1.2	27877.392 ^A	9	3.237	6.693	0.17 ^a	
		5-4	4.37	3585.9809	3584.9577	-0.1	27886.373 ^A	1	3.267	6.724	0.07 ^a	
		4-3	4.14	3574.9090	3573.8886	-0.1	27972.740 ^A	1	3.301	6.769	-0.11 ^a	
1099	$b^3H-w^1G^\circ$ (613)	4-4	3.34	3548.2077	3547.1942	0.3	28183.243 ^B	-2	3.301	6.795	-0.92 ^a	
1100	$b^3H-s^3G^\circ$	5-5	3.31	3438.9343	3437.9489	0.1	29078.776 ^B	-1	3.267	6.872	...	
		4-3	2.56	3428.9926	3428.0097	0.1	29163.084 ^C	-1	3.301	6.917	...	
1101	$b^3H-v^3H^\circ$ (614)	4-4	3.54	3470.0053	3469.0119	-0.5	28818.400 ^A	4	3.301	6.874	-0.86 ^a	
		5-5	3.58	3427.6484	3426.6659	-0.2	29174.521 ^A	2	3.267	6.884	-0.68 ^a	
		6-6	4.03	3403.2322	3402.2559	0.1	29383.831 ^D	-1	3.237	6.880	-0.31 ^a	I
1102	$b^3H-u^3H^\circ$ (617)	4-5	2.73	3360.7743	3359.8088	0.3	29755.048 ^C	-3	3.301	6.990	...	
		4-4	3.76	3356.1920	3355.2277	-0.1	29795.673 ^A	1	3.301	6.995	-0.41 ^a	
		5-6	2.41	3335.2307	3334.2718	-1.7	29982.933 ^D	15	3.267	6.984	...	
		5-5	3.83	3329.8235	3328.8659	-0.2	30031.622 ^A	2	3.267	6.990	-0.39 ^a	
		5-4	2.68	3325.3267	3324.3703	0.9	30072.233 ^C	-8	3.267	6.995	...	
		6-6	3.92	3308.1857	3307.2337	0.0	30228.049 ^A	0	3.237	6.984	-0.38 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1103	$b^3H-u^3F^\circ$ (618)	4-4	2.98	3337.2162	3336.2567	-0.3	29965.095 ^B	3	3.301	7.016	-1.13 ^a	
1104	$b^3H-x^3I^\circ$ (620)	4-5	4.15	3281.2056	3280.2604	0.3	30476.603 ^D	-3	3.301	7.080	-0.13 ^a	II
		5-6	4.21	3255.3005	3254.3619	-0.1	30719.130 ^A	1	3.267	7.076	-0.06 ^a	
		5-5	2.88	3251.6967	3250.7590	-0.1	30753.176 ^B	1	3.267	7.080	-1.30 ^a	
		6-7	4.25	3233.9850	3233.0518	-0.1	30921.603 ^A	1	3.237	7.070	-0.01 ^a	
		6-6	2.80	3229.5296	3228.5975	-0.2	30964.262 ^B	2	3.237	7.076	-1.45 ^a	
		6-5	0?	3225.982	3225.051	0.0	30998.31 ^D	0	3.237	7.080	...	
1105	$b^3H-t^3F^\circ$	4-3	d0	3224.409	3223.478	-5.2	31013.44 ^D	50	3.301	7.146	...	
		5-4	1	3205.231	3204.305	-3.1	31199.00 ^D	30	3.267	7.135	...	
1106	$b^3H-Hsp1^3G^\circ$	5-5	1	3157.809	3156.895	-1.0	31667.53 ^D	10	3.267	7.193	...	
		4-4	0	3153.882	3152.969	4.0	31706.96 ^D	-40	3.301	7.232	...	
		6-5	3	3133.557	3132.649	2.9	31912.62 ^D	-30	3.237	7.193	...	
		4-3	3	3127.660	3126.754	-3.9	31972.78 ^D	40	3.301	7.265	...	
		5-4	10*	3126.600	3125.694	-3.9	31983.62 ^D	40	3.267	7.232	...	
1107	$b^3H-Hsp1^3I^\circ$	4-5	2.53	3080.8831	3079.9885	-0.9	32458.226 ^C	10	3.301	7.325	-0.88 ^a	
		5-6	2.64	3067.8884	3066.9970	-1.9	32595.710 ^B	20	3.267	7.308	-0.50 ^a	
		6-7	2.49	3059.3807	3058.4914	-0.8	32686.354 ^C	9	3.237	7.289	...	
		6-6	0?	3044.989	3044.103	-0.9	32840.84 ^D	10	3.237	7.308	...	II
1108	$b^3H-Fsp1^3F^\circ$	4-4	0	2987.927	2987.056	-2.7	33468.02 ^D	30	3.301	7.451	...	
		4-3	2	2981.081	2980.211	-1.8	33544.88 ^D	20	3.301	7.460	...	
		5-4	1	2963.439	2962.574	-1.8	33744.58 ^D	20	3.267	7.451	...	
1109	$b^3H-Fsp1^3G^\circ$	4-4	2.04	2955.2076	2954.3443	-1.5	33838.570 ^D	17	3.301	7.497	...	I
		5-5	5	2949.585	2948.724	4.4	33903.07 ^D	-50	3.267	7.470	...	I
		4-3	0	2946.722	2945.860	-0.9	33936.02 ^D	10	3.301	7.509	...	
		5-4	1	2931.251	2930.393	0.0	34115.13 ^D	0	3.267	7.497	...	
		6-5	2	2928.406	2927.549	-0.9	34148.27 ^D	10	3.237	7.470	...	
1110	$b^3H-t^3H^\circ$ (UV182)	4-5	1.95	2947.9821	2947.1207	-0.3	33921.508 ^D	4	3.301	7.507	...	
		5-6	2.20	2939.9129	2939.0534	-1.6	34014.613 ^C	19	3.267	7.484	...	
		4-4	10	2929.974	2929.117	0.0	34129.99 ^D	0	3.301	7.533	0.25 ^a	
		5-5	3.09	2924.1412	2923.2856	-0.2	34198.075 ^A	2	3.267	7.507	0.29 ^a	
		6-6	3.45	2918.8791	2918.0248	0.0	34259.727 ^D	0	3.237	7.484	0.29 ^a	II
		5-4	0	2906.422	2905.571	0.0	34406.56 ^D	0	3.267	7.533	...	
1111	$b^3H-Gsp1^3H^\circ$	6-6	2	2707.837	2707.035	0.0	36929.84 ^D	0	3.237	7.815	...	
1112	$a^3D-z^3F^\circ$	3-4	1.74	19676.227	19670.857	0	5082.275 ^A	0	3.251	3.881	...	
		2-3	1.58	19300.045	19294.777	4	5181.335 ^A	-1	3.301	3.943	...	
		1-2	0.78	17459.548	17454.781	0	5727.525 ^A	0	3.274	3.984	...	
		3-2	1.97	16923.268	16918.647	-6	5909.024 ^D	2	3.251	3.984	...	II
1113	$a^3D-z^3D^\circ$	2-3	1.08	21281.689	21275.882	14	4698.875 ^A	-3	3.301	3.883	...	
		2-2	1.30	19752.637	19747.246	0	5062.615 ^A	0	3.301	3.928	...	
		3-3	1.60	19616.928	19611.574	19	5097.638 ^A	-5	3.251	3.883	...	
		1-2	2.00	18939.806	18934.636	4	5279.885 ^A	-1	3.274	3.928	...	
		2-1	0.48	18819.685	18814.548	14	5313.585 ^B	-4	3.301	3.960	...	
		1-1	1.71	18080.374	18075.438	0	5530.859 ^A	0	3.274	3.960	...	
1114	$a^3D-z^3P^\circ$	2-2	1.46	13655.240	13651.507	2	7323.196 ^A	-1	3.301	4.209	...	
		3-2	1.28	12950.081	12946.540	8	7721.959 ^A	-5	3.251	4.209	...	
		1-0	1.54	12271.248	12267.891	2	8149.130 ^A	-1	3.274	4.284	...	
1115	$a^3D-y^3F^\circ$ (622)	3-4	2.17	9559.1273	9556.5059	0.0	10461.206 ^A	0	3.251	4.548	...	
		2-3	1.53	9488.5564	9485.9541	-0.9	10539.011 ^A	1	3.301	4.607	...	
		2-2	1.20	9176.4798	9173.9620	0.0	10897.425 ^A	0	3.301	4.652	...	
		3-3	1.68	9142.6264	9140.1178	0.8	10937.776 ^A	-1	3.251	4.607	...	
		1-2	1.32	8997.0964	8994.6271	-1.6	11114.697 ^B	2	3.274	4.652	...	
1116	$a^3D-y^3D^\circ$ (623)	3-3	2.75	8367.9326	8365.6336	1.4	11950.383 ^A	-2	3.251	4.733	-1.91 ^a	
		2-2	2.58	8295.7942	8293.5146	1.4	12054.301 ^A	-2	3.301	4.795	-2.14 ^a	
		1-2	1.40	8148.9172	8146.6773	2.7	12271.569 ^A	-4	3.274	4.795	...	
		2-1	1.80	8082.7695	8080.5475	1.3	12371.997 ^A	-2	3.301	4.835	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		3-2	1.85	8030.1497	8027.9418	0.6	12453.068 ^A	-1	3.251	4.795	...	
		1-1	2.08	7943.2736	7941.0892	0.6	12589.268 ^A	-1	3.274	4.835	-2.58 ^b	
1117	$a^3D-z^5S^\circ$	3-2	2.00	6816.6233	6814.7426	-0.5	14670.020 ^C	1	3.251	5.070	...	
1118	$a^3D-x^5P^\circ$ (624)	3-2	0.48	6011.4907	6009.8263	-0.7	16634.809 ^D	2	3.251	5.314	...	I
1119	$a^3D-x^3D^\circ$ (628)	2-2	1.90	5359.6048	5358.1147	1.4	18658.092 ^D	-5	3.301	5.614	...	
		3-3	2.00	5264.3457	5262.8809	-0.8	18995.713 ^B	3	3.251	5.606	-2.66 ^b	
		1-1	1.95	5223.2168	5221.7630	3.0	19145.290 ^C	-11	3.274	5.648	...	
1120	$a^3D-y^3G^\circ$	2-3	1.90	5280.0493	5278.5804	5.9	18939.217 ^D	-21	3.301	5.649	...	
1121	$a^3D-z^3S^\circ$	2-1	2.02	5005.7373	5004.3414	1.0	19977.077 ^C	-4	3.301	5.778	...	
1122	$a^3D-y^3P^\circ$ (631)	3-2	1.85	4877.5498	4876.1879	1.4	20502.097 ^C	-6	3.251	5.793	-3.38 ^b	
1123	$a^3D-u^5D^\circ$ (630)	2-2	2.31	4934.6719	4933.2948	1.9	20264.772 ^B	-8	3.301	5.813	...	
		3-3	2.73	4873.2889	4871.9281	-0.2	20520.023 ^A	1	3.251	5.795	-2.15 ^a	
		3-2	1.90	4839.4365	4838.0847	-3.7	20663.563 ^C	16	3.251	5.813	...	
		1-1	2.11	4814.4580	4813.1128	-0.5	20770.770 ^B	2	3.274	5.849	-2.89 ^b	
1124	$a^3D-x^3F^\circ$ (632)	3-3	1.90	4792.0823	4790.7431	-3.2	20867.755 ^D	14	3.251	5.839	-3.24 ^b	
1125	$a^3D-w^3D^\circ$ (633)	2-3	2.00	4903.5326	4902.1638	-2.2	20393.461 ^C	9	3.301	5.829	...	
		2-2	2.05	4875.1125	4873.7513	0.2	20512.347 ^B	-1	3.301	5.844	...	
		3-3	2.36	4809.4922	4808.1483	0.2	20792.216 ^B	-1	3.251	5.829	-2.79 ^b	
		1-1	2.51	4792.5855	4791.2462	-0.7	20865.564 ^A	3	3.274	5.861	-2.51 ^b	
1126	$a^3D-w^5G^\circ$	3-4	2.48	4680.5343	4679.2247	-1.1	21365.082 ^D	5	3.251	5.900	...	I
1127	$a^3D-Psp3^1D^\circ$ (634*)	1-2	3.19	4758.9085	4757.5780	-0.5	21013.222 ^A	2	3.274	5.879	...	
		3-2	1.78	4718.1587	4716.8390	1.8	21194.709 ^C	-8	3.251	5.879	-3.41 ^b	
1128	$a^3D-y^3S^\circ$ (635)	2-1	2.36	4777.4027	4776.0673	-0.5	20931.876 ^B	2	3.301	5.896	-2.70 ^b	
1129	$a^3D-v^5F^\circ$ (640)	1-2	1.30	4580.3499	4579.0667	-2.7	21832.393 ^C	13	3.274	5.981	...	
		3-2	1.99	4542.5873	4541.3141	-1.9	22013.886 ^B	9	3.251	5.981	-2.95 ^b	
1130	$a^3D-v^5P^\circ$ (638)	2-1	2.16	4615.4979	4614.2054	-0.2	21666.135 ^B	1	3.301	5.987	-2.62 ^b	
		3-2	1.85	4558.2024	4556.9250	0.6	21938.473 ^B	-3	3.251	5.971	-2.71 ^b	
1131	$a^3D-x^3P^\circ$ (641)	2-2	1.95	4612.3555	4611.0638	2.1	21680.896 ^C	-10	3.301	5.989	...	
		2-1	2.60	4567.7944	4566.5145	-0.4	21892.404 ^B	2	3.301	6.015	-2.38 ^a	
		1-2	2.25	4566.5898	4565.3102	-0.6	21898.179 ^B	3	3.274	5.989	-2.51 ^b	
		3-2	2.32	4529.0524	4527.7827	-0.4	22079.674 ^B	2	3.251	5.989	-2.74 ^b	
1132	$a^3D-v^3D^\circ$ (645)	2-3	1.60	4442.2156	4440.9689	-0.4	22511.289 ^D	2	3.301	6.092	...	
		2-1	2.67	4410.3579	4409.1195	0.2	22673.897 ^B	-1	3.301	6.112	-2.23 ^b	
		1-2	2.57	4379.0217	4377.7916	0.6	22836.151 ^B	-3	3.274	6.105	-2.31 ^b	
		3-2	3.01	4344.4922	4343.2712	0.2	23017.650 ^D	-1	3.251	6.105	-1.70 ^b	II
1133	$a^3D-Fsp3^1F^\circ$ (648)	2-3	2.79	4375.7184	4374.4892	0.2	22853.390 ^A	-1	3.301	6.134	-2.47 ^a	
		3-3	2.34	4300.6765	4299.4670	0.2	23252.156 ^C	-1	3.251	6.134	...	
1134	$a^3D-w^3P^\circ$ (649)	2-1	3.22	4269.9502	4268.7488	0.0	23419.477 ^A	0	3.301	6.204	-1.57 ^a	
		1-0	2.38	4247.2082	4246.0128	-0.2	23544.878 ^B	1	3.274	6.193	...	
		2-2	3.08	4243.9239	4242.7294	-0.2	23563.099 ^A	1	3.301	6.222	-1.75 ^a	
		1-1	3.05	4230.7013	4229.5102	0.5	23636.743 ^A	-3	3.274	6.204	-1.63 ^a	
		3-2	3.82	4173.2982	4172.1222	0.2	23961.863 ^A	-1	3.251	6.222	-0.89 ^a	
1135	$a^3D-z^1F^\circ$ (650)	2-3	3.13	4173.0753	4171.8993	-0.3	23963.143 ^A	2	3.301	6.272	-1.70 ^a	
		3-3	1.95	4104.7712	4103.6131	2.4	24361.894 ^C	-14	3.251	6.272	...	
1136	$a^3D-x^3H^\circ$	3-4	3.51	3970.7507	3969.6276	-0.3	25184.155 ^A	2	3.251	6.374	-1.25 ^b	
1137	$a^3D-t^5D^\circ$ (654)	3-4	2.64	4023.8727	4022.7358	-3.7	24851.681 ^D	23	3.251	6.332	...	I
		2-3	2.96	4042.4135	4041.2717	-6.5	24737.697 ^D	40	3.301	6.368	...	I
		1-2	2.30	3964.5534	3963.4320	1.9	25223.522 ^D	-12	3.274	6.401	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	$\sigma\text{-R}^4$ (mÅ)	σ^5 (cm ⁻¹)	$\sigma\text{-R}^6$ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1138	$\alpha^3D-v^3F^o$ (655)	2-3	3.46	4041.7797	4040.6381	-0.2	24741.576 ^A	1	3.301	6.368	-1.12 ^b	
		1-2	3.76	4033.1000	4031.9607	0.0	24794.823 ^A	0	3.274	6.348	-1.06 ^b	
		3-2	2.61	4003.7926	4002.6609	-0.2	24976.319 ^C	1	3.251	6.348	...	
		3-4	3.87	3987.2990	3986.1717	0.0	25079.634 ^A	0	3.251	6.361	...	
		3-3	2.83	3977.6711	3976.5463	0.3	25140.339 ^C	-2	3.251	6.368	...	
1139	$\alpha^3D-u^3G^o$ (659)	2-3	2.97	3967.9323	3966.8100	-1.1	25202.043 ^B	7	3.301	6.425	-1.95 ^a	
		3-4	3.28	3930.3208	3929.2083	0.0	25443.216 ^A	0	3.251	6.406	-1.36 ^a	
1140	$\alpha^3D-y^1D^o$ (661)	2-2	3.42	3986.5144	3985.3873	0.2	25084.570 ^A	-1	3.301	6.411	-0.99 ^a	
		1-2	4.18	3952.2814	3951.1632	-0.2	25301.842 ^A	1	3.274	6.411	-0.30 ^a	
1141	$\alpha^3D-x^1D^o$ (662)	2-2	3.48	3977.9861	3976.8612	-1.4	25138.348 ^D	9	3.301	6.417	...	I
1142	$\alpha^3D-u^3D^o$ (663)	2-2	3.44	3895.1153	3894.0120	0.2	25673.181 ^A	-1	3.301	6.484	-0.93 ^a	
		3-3	3.81	3884.3805	3883.2800	0.0	25744.131 ^A	0	3.251	6.443	-0.69 ^a	
		3-2	3.07	3835.5433	3834.4554	3.4	26071.926 ^B	-23	3.251	6.484	...	
		1-1	3.37	3830.5384	3829.4518	-0.1	26105.991 ^B	1	3.274	6.510	-1.06 ^a	
1143	$\alpha^3D-^2P4p^1P^o$	1-1	4.02	3879.8252	3878.7259	-0.5	25774.357 ^A	3	3.274	6.469	-0.44 ^a	
1144	$\alpha^3D-t^3D^o$ (664)	2-3	3.50	3907.8537	3906.7471	0.0	25589.494 ^A	0	3.301	6.473	-0.95 ^a	
		3-3	4.39	3847.8909	3846.7998	-0.6	25988.263 ^A	4	3.251	6.473	-0.02 ^a	
		2-2	4.06	3837.4187	3836.3304	-0.3	26059.184 ^A	2	3.301	6.532	-0.44 ^a	
		2-1	3.48	3811.8373	3810.7557	-0.1	26234.068 ^A	1	3.301	6.553	-0.90 ^a	
		1-2	2.62	3805.6912	3804.6111	2.5	26276.436 ^C	-17	3.274	6.532	...	
		1-1	3.21	3780.5272	3779.4537	0.0	26451.337 ^B	0	3.274	6.553	-1.17 ^a	
		3-2	3.58	3779.5823	3778.5090	-0.1	26457.950 ^A	1	3.251	6.532	-0.90 ^a	
1145	$\alpha^3D-^4F5p^3G^o$	3-4	3.31	3598.0789	3597.0526	0.0	27792.609 ^B	0	3.251	6.697	...	
1146	$\alpha^3D-v^3P^o$ (666)	2-2	3.14	3803.3583	3802.2789	0.7	26292.553 ^B	-5	3.301	6.561	-1.21 ^a	
		2-1	3.32	3758.5224	3757.4546	0.4	26606.200 ^A	-3	3.301	6.599	-1.28 ^a	
		3-2	4.02	3746.5360	3745.4713	0.3	26691.322 ^A	-2	3.251	6.561	...	
1147	$\alpha^3D-Gsp3^3F^o$	3-4	3.73	3741.3028	3740.2395	0.0	26728.657 ^A	0	3.251	6.565	-0.58 ^b	
		2-3	3.77	3740.5863	3739.5231	0.1	26733.777 ^A	-1	3.301	6.615	...	
		1-2	3.34	3657.2513	3656.2097	-0.3	27342.939 ^B	2	3.274	6.664	...	
1148	$\alpha^3D-^4F5p^5G^o$	2-3	2.65	3634.9212	3633.8853	0.5	27510.913 ^D	-4	3.301	6.712	...	
		3-4	3.48	3619.6290	3618.5971	0.3	27627.141 ^A	-2	3.251	6.677	...	
1149	$\alpha^3D-^4F5p^5F^o$	2-3	3.22	3698.5883	3697.5360	-0.1	27037.343 ^B	1	3.301	6.653	...	
		3-3	3.17	3644.8321	3643.7937	0.1	27436.106 ^B	-1	3.251	6.653	...	
		1-2	2.81	3618.4579	3617.4263	-2.9	27636.082 ^C	22	3.274	6.700	...	
1150	$\alpha^3D-^4F5p^3F^o$	3-4	3.43	3689.5104	3688.4605	-0.5	27103.867 ^A	4	3.251	6.612	-0.90 ^b	
		2-3	3.12	3614.6368	3613.6062	-0.1	27665.297 ^B	1	3.301	6.731	-1.04 ^b	
		1-2	3.17	3533.5788	3532.5691	-0.1	28299.921 ^B	1	3.274	6.782	...	
1151	$\alpha^3D-^4F5p^5D^o$	2-2	2.99	3583.3427	3582.3201	1.5	27906.904 ^B	-12	3.301	6.761	...	
		1-2	2.72	3555.6582	3554.6428	-0.3	28124.188 ^D	2	3.274	6.761	...	
1152	$\alpha^3D-Dsp3^5F^o$	2-1	3.00	3693.6988	3692.6478	-0.4	27073.133 ^B	3	3.301	6.657	...	
		2-2	2.62	3690.1269	3689.0768	0.3	27099.339 ^C	-2	3.301	6.661	...	
		1-2	2.80	3660.7761	3659.7336	-0.1	27316.612 ^C	1	3.274	6.661	...	
		3-3	3.22	3635.2240	3634.1881	0.0	27508.621 ^A	0	3.251	6.662	...	
		3-4	3.23	3615.7430	3614.7121	0.3	27656.833 ^B	-2	3.251	6.680	...	
1153	$\alpha^3D-x^3S^o$	2-1	3.07	3678.5509	3677.5038	0.1	27184.618 ^B	-1	3.301	6.671	...	
1154	$\alpha^3D-^4F5p^3D^o$	3-3	3.21	3621.4980	3620.4656	-0.5	27612.883 ^B	4	3.251	6.675	...	
		2-2	3.09	3607.6285	3606.5998	0.3	27719.040 ^B	-2	3.301	6.737	...	
		3-2	2.61	3556.4637	3555.4481	-1.3	28117.818 ^D	10	3.251	6.737	...	
		1-1	2.72	3521.0296	3520.0231	-0.1	28400.784 ^D	1	3.274	6.795	...	
1155	$\alpha^3D-Dsp3^5D^o$ (672*)	1-2	2.38	3635.4968	3634.4608	-0.7	27506.557 ^D	5	3.274	6.684	...	
		3-3	3.36	3614.4740	3613.4434	1.6	27666.543 ^D	-12	3.251	6.681	...	I
		3-4	3.50	3561.7137	3560.6968	-0.5	28076.372 ^A	4	3.251	6.732	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{qir}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1156	$a^3D-t^3G^\circ$ (673)	2-3	3.44	3574.4138	3573.3936	-0.4	27976.615 ^B	3	3.301	6.769	-0.85 ^a	
		3-4	3.43	3569.8424	3568.8234	0.3	28012.441 ^B	-2	3.251	6.724	-0.94 ^a	
		3-3	2.53	3524.1821	3523.1748	0.0	28375.378 ^D	0	3.251	6.769	...	
1157	$a^3D-t^5P^\circ$ (674*)	3-3	2.98	3599.7440	3598.7173	-0.8	27779.753 ^B	6	3.251	6.696	-1.40 ^b	
1158	$a^3D-w^1D^\circ$ (676)	2-2	2.62	3432.8266	3431.8427	-2.1	29130.513 ^C	18	3.301	6.912	...	
		1-2	3.48	3407.4140	3406.4367	-0.5	29347.769 ^A	4	3.274	6.912	-0.59 ^b	
1159	$a^3D-u^3H^\circ$ (679)	3-4	3.04	3311.4436	3310.4907	0.1	30198.310 ^B	-1	3.251	6.995	-1.04 ^a	
1160	$a^3D-u^3F^\circ$ (680)	2-3	3.77	3315.6953	3314.7413	-0.3	30159.587 ^A	3	3.301	7.040	-0.08 ^a	
		2-2	2.96	3307.4337	3306.4818	-0.7	30234.922 ^B	6	3.301	7.049	...	
		3-4	3.86	3292.9690	3292.0208	0.0	30367.732 ^A	0	3.251	7.016	-0.07 ^a	
		1-2	3.32	3283.8362	3282.8903	-0.3	30452.189 ^A	3	3.274	7.049	-0.56 ^a	
		3-3	2.81	3272.4277	3271.4847	-0.2	30558.353 ^B	2	3.251	7.040	-1.02 ^a	
1161	$a^3D-s^6D6p^5F^\circ$	3-4	d0?	3242.618	3241.682	9.5	30839.28 ^D	-90	3.251	7.075	...	II
		2-1	4	3233.870	3232.937	4.2	30922.70 ^D	-40	3.301	7.135	...	
		2-2	d5	3231.146	3230.214	0.0	30948.77 ^D	0	3.301	7.138	...	I
		3-3	3	3213.485	3212.557	0.0	31118.86 ^D	0	3.251	7.109	...	
		1-1	d0?	3211.310	3210.383	7.2	31139.94 ^D	-70	3.274	7.135	...	
1162	$a^3D-v^1G^\circ$ (681)	3-4	3.33	3254.5374	3253.5990	-0.4	30726.333 ^A	4	3.251	7.061	-0.64 ^a	
1163	$a^3D-Dsp1^3D^\circ$	3-3	3	3213.248	3212.320	1.0	31121.16 ^D	-10	3.251	7.110	...	
1164	$a^3D-t^3F^\circ$ (682)	2-3	0	3224.015	3223.084	3.1	31017.23 ^D	-30	3.301	7.146	...	
		2-2	d0	3216.979	3216.051	-5.2	31085.06 ^D	50	3.301	7.155	...	
		1-2	1	3194.653	3193.730	-2.0	31302.30 ^D	20	3.274	7.155	...	
		3-2	4	3176.231	3175.312	-9.1	31483.86 ^D	90	3.251	7.155	...	I
1165	$a^3D-s^4D5p^5D^\circ$	2-3	d0?	3183.729	3182.808	5.1	31409.71 ^D	-50	3.301	7.195	...	
		3-3	8	3143.806	3142.895	-4.0	31808.58 ^D	40	3.251	7.195	...	I
		2-1	d0	3135.157	3134.249	-5.9	31896.33 ^D	60	3.301	7.255	...	
		3-2	d0	3114.725	3113.822	2.9	32105.56 ^D	-30	3.251	7.232	...	
1166	$a^3D-s^4D5p^3F^\circ$	3-4	2.32	3155.3429	3154.4295	0.5	31692.277 ^D	-5	3.251	7.181	...	
		2-2	d0?	3092.317	3091.420	3.8	32338.21 ^D	-40	3.301	7.310	...	
		1-2	d0?	3071.678	3070.785	1.9	32555.50 ^D	-20	3.274	7.310	...	
		3-2	1	3054.643	3053.755	-1.9	32737.05 ^D	20	3.251	7.310	...	
		3-3	0	3042.776	3041.891	-6.5	32864.73 ^D	70	3.251	7.326	...	
1167	$a^3D-s^4D5p^3P^\circ$	2-2	1*	3187.176	3186.254	-1.0	31375.74 ^D	10	3.301	7.191	...	
		3-2	1	3147.182	3146.270	3.0	31774.46 ^D	-30	3.251	7.191	...	
1168	$a^3D-Hsp1^3G^\circ$	3-4	1	3114.336	3113.433	6.8	32109.57 ^D	-70	3.251	7.232	...	
1169	$a^3D-s^4D5p^3D^\circ$	2-3	3	3159.305	3158.391	0.0	31652.53 ^D	0	3.301	7.225	...	
		1-2	d0?	3152.015	3151.102	4.0	31725.74 ^D	-40	3.274	7.207	...	
		2-1	1	3147.516	3146.604	3.0	31771.09 ^D	-30	3.301	7.240	...	II
		3-2	0	3134.078	3133.170	-2.9	31907.31 ^D	30	3.251	7.207	...	I
1170	$a^3D-Psp1^3S^\circ$	2-1	1	3041.644	3040.759	-5.6	32876.96 ^D	60	3.301	7.377	...	
1171	$a^3D-Fsp1^3F^\circ$	3-4	2.00	2952.4116	2951.5490	1.0	33870.616 ^D	-11	3.251	7.451	...	
1172	$a^3D-Fsp1^3G^\circ$	3-4	d0?	2920.463	2919.608	3.4	34241.15 ^D	-40	3.251	7.497	...	
1173	$a^3D-t^3H^\circ$	3-4	d0?	2895.806	2894.957	-5.9	34532.70 ^D	70	3.251	7.533	...	
1174	$a^3D-Fsp1^3D^\circ$	3-3	2	2891.707	2890.859	3.3	34581.65 ^D	-40	3.251	7.539	...	I
1175	$z^5F^\circ-c^3F$	4-4	2.11	17522.905	17518.121	-12	5706.816 ^A	4	3.368	4.076	...	
		3-3	1.62	16616.744	16612.206	0	6018.026 ^A	0	3.396	4.143	...	
		1-2	1.34	16396.267	16391.789	22	6098.949 ^C	-8	3.430	4.186	...	
		2-2	1.20	16114.160	16109.759	3	6205.722 ^A	-1	3.417	4.186	...	
1176	$z^5F^\circ-d^3F$	4-4	1.89	10122.355	10119.581	-10	9879.124 ^D	10	3.368	4.593	...	Ne
		5-4	0.90	9831.5144	9828.8192	10.6	10171.373 ^B	-11	3.332	4.593	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1177	$z^5F^o-e^7D$ (685)	5-5	2.30	6273.0133	6271.2788	0.8	15941.302 ^B	-2	3.332	5.308	...	
		5-4	0.60	6139.1971	6137.4984	-0.4	16288.775 ^B	1	3.332	5.351	...	
1178	$z^5F^o-e^5D$ (686)	3-4	1.98	5786.2625	5784.6584	0.0	17282.313 ^A	0	3.396	5.539	-2.67 ^b	
		2-3	2.48	5713.7163	5712.1316	0.0	17501.744 ^A	0	3.417	5.587	-2.06 ^b	
		4-4	3.50	5710.9623	5709.3783	0.3	17510.184 ^A	-1	3.368	5.539	-1.24 ^b	
		3-3	3.73	5660.3869	5658.8164	0.0	17666.637 ^A	0	3.396	5.587	-0.84 ^a	
		1-2	2.60	5660.1020	5658.5317	0.0	17667.526 ^A	0	3.430	5.620	...	
		2-2	3.77	5626.1035	5624.5422	0.0	17774.291 ^A	0	3.417	5.620	-0.90 ^b	
		5-4	4.57	5617.2028	5615.6439	0.0	17802.455 ^A	0	3.332	5.539	-0.14 ^b	
		1-1	3.66	5604.5006	5602.9451	-0.3	17842.803 ^A	1	3.430	5.642	...	
		4-3	4.41	5588.3071	5586.7559	0.0	17894.507 ^A	0	3.368	5.587	-0.14 ^a	
		1-0	3.73	5577.6371	5576.0888	-0.9	17928.739 ^A	3	3.430	5.653	-1.00 ^b	
		3-2	4.25	5574.3899	5572.8424	-0.3	17939.183 ^A	1	3.396	5.620	-0.31 ^b	
		2-1	3.99	5571.1647	5569.6181	0.0	17949.568 ^A	0	3.417	5.642	-0.54 ^b	
1179	$z^5F^o-e^5F$ (687)	4-5	3.43	5040.6572	5039.2520	0.5	19838.683 ^A	-2	3.368	5.828	-1.57 ^a	
		3-4	3.41	5004.1883	5002.7927	0.5	19983.261 ^A	-2	3.396	5.874	-1.58 ^b	
		5-5	4.12	4967.4747	4966.0889	0.2	20130.953 ^A	-1	3.332	5.828	-0.87 ^a	
		2-3	3.19	4951.4876	4950.1060	0.2	20195.951 ^A	-1	3.417	5.921	-1.67 ^b	
		4-4	3.78	4947.7686	4946.3881	0.5	20211.131 ^A	-2	3.368	5.874	-1.17 ^b	
		3-3	3.49	4911.3878	4910.0169	0.2	20360.844 ^A	-1	3.396	5.921	...	
		1-2	3.00	4909.1021	4907.7318	0.0	20370.324 ^A	0	3.430	5.956	-1.84 ^b	
		2-2	3.23	4883.5069	4882.1434	0.2	20477.088 ^A	-1	3.417	5.956	-1.64 ^b	
		5-4	3.05	4877.2394	4875.8776	0.5	20503.402 ^A	-2	3.332	5.874	-2.02 ^b	
		1-1	3.13	4865.0023	4863.6437	0.0	20554.975 ^A	0	3.430	5.978	...	
		4-3	3.17	4857.0297	4855.6732	0.2	20588.715 ^A	-1	3.368	5.921	...	
		3-2	3.14	4844.4970	4843.1438	0.5	20641.978 ^A	-2	3.396	5.956	-1.84 ^b	
		2-1	2.85	4839.8637	4838.5118	0.0	20661.739 ^A	0	3.417	5.978	-1.95 ^b	
1180	$z^5F^o-e^3F$ (688)	3-4	2.66	4862.3363	4860.9785	0.7	20566.245 ^A	-3	3.396	5.946	-2.43 ^b	
		4-4	2.86	4809.0525	4807.7088	0.5	20794.117 ^A	-2	3.368	5.946	-2.20 ^b	
		2-3	2.20	4768.1988	4766.8659	0.2	20972.280 ^B	-1	3.417	6.017	-2.31 ^b	
		5-4	2.46	4742.3957	4741.0696	0.0	21086.389 ^B	0	3.332	5.946	...	
		3-3	2.24	4730.9996	4729.6766	-2.0	21137.182 ^B	9	3.396	6.017	-2.47 ^b	
1181	$z^5F^o-e^7F$ (689)	5-6	3.08	4261.1983	4259.9992	0.2	23467.577 ^A	-1	3.332	6.241	-1.26 ^a	
		2-3	3.53	4239.2172	4238.0238	0.4	23589.261 ^A	-2	3.417	6.341	...	
		1-2	3.29	4225.7025	4224.5128	-0.4	23664.704 ^A	2	3.430	6.364	-1.04 ^a	
		4-5	3.91	4225.3613	4224.1717	0.4	23666.615 ^A	-2	3.368	6.302	-0.51 ^a	
		3-3	3.44	4209.7896	4208.6040	0.0	23754.156 ^A	0	3.396	6.341	...	
		2-2	2.99	4206.7233	4205.5385	-0.5	23771.471 ^A	3	3.417	6.364	-1.44 ^a	
		3-4	3.37	4202.1078	4200.9242	-0.2	23797.581 ^A	1	3.396	6.347	-0.83 ^a	
		5-5	3.11	4173.8169	4172.6408	0.2	23958.885 ^A	-1	3.332	6.302	-1.19 ^a	
		4-3	2.45	4169.7898	4168.6147	0.3	23982.024 ^B	-2	3.368	6.341	-1.94 ^b	
		4-4	2.09	4162.2500	4161.0769	-2.6	24025.467 ^B	15	3.368	6.347	-1.69 ^b	
1182	$z^5F^o-f^7D$ (690)	3-3	2.30	4261.2797	4260.0806	-0.9	23467.129 ^B	5	3.396	6.306	...	
		2-1	2.13	4257.4036	4256.2055	5.1	23488.494 ^C	-28	3.417	6.329	...	
		3-2	2.63	4236.5799	4235.3873	1.4	23603.945 ^B	-8	3.396	6.323	-1.68 ^a	
		4-4	1.85	4229.9093	4228.7184	1.1	23641.169 ^D	-6	3.368	6.299	-2.54 ^b	
		5-4	2.15	4178.2631	4177.0858	9.6	23933.390 ^D	-55	3.332	6.299	...	
1183	$z^5F^o-f^5D$ (691)	2-2	2.08	4321.6979	4320.4829	-3.5	23139.054 ^D	19	3.417	6.286	...	
		1-1	2.11	4307.7900	4306.5787	-1.3	23213.759 ^D	7	3.430	6.308	...	
		3-2	2.62	4291.1215	4289.9146	-0.6	23303.931 ^B	3	3.396	6.286	...	
		1-0	2.36	4289.1450	4287.9385	-1.5	23314.670 ^D	8	3.430	6.321	...	
		2-1	2.50	4288.0707	4286.8645	1.3	23320.511 ^C	-7	3.417	6.308	...	
		4-3	2.76	4279.4353	4278.2314	1.1	23367.569 ^B	-6	3.368	6.265	-1.74 ^b	
		5-4	3.07	4246.5397	4245.3444	0.0	23548.585 ^A	0	3.332	6.251	-1.61 ^a	
1184	$z^5F^o-e^7P$ (692)	4-3	2.94	4265.4037	4264.2034	0.0	23444.440 ^A	0	3.368	6.275	-1.51 ^a	
1185	$z^5F^o-e^5G$ (693)	4-5	4.20	4248.6213	4247.4255	0.2	23537.047 ^A	-1	3.368	6.286	-0.24 ^a	
		3-4	4.18	4240.0035	4238.8100	0.0	23584.886 ^A	0	3.396	6.320	-0.23 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1186	$z^5F^o - e^7G$ (694)	5-6	4.73	4228.6171	4227.4266	0.0	23648.393 ^A	0	3.332	6.264	0.27 ^a	
		2-3	3.90	4226.6443	4225.4543	-0.2	23659.431 ^A	1	3.417	6.350	-0.51 ^a	
		1-2	3.84	4218.7336	4217.5456	0.0	23703.796 ^A	0	3.430	6.369	-0.48 ^a	
		2-2	3.53	4199.8170	4198.6341	-0.2	23810.561 ^A	1	3.417	6.369	-0.78 ^a	
		4-4	3.96	4199.4297	4198.2469	0.2	23812.757 ^A	-1	3.368	6.320	-0.46 ^a	
		3-3	3.68	4197.3907	4196.2083	-0.5	23824.325 ^A	3	3.396	6.350	-0.70 ^a	
		5-5	3.96	4196.5112	4195.3291	0.0	23829.318 ^A	0	3.332	6.286	-0.49 ^a	
		3-2	2.42	4170.9316	4169.7562	-1.0	23975.459 ^C	6	3.396	6.369	-1.91 ^b	
		4-3	2.34	4157.6257	4156.4538	0.9	24052.189 ^C	-5	3.368	6.350	...	
		5-4	2.36	4148.5116	4147.3420	-0.7	24105.031 ^B	4	3.332	6.320	...	
		1-2	3.00	4188.7671	4187.5870	-0.4	23873.373 ^A	2	3.430	6.390	-1.23 ^a	
		2-3	2.62	4183.9366	4182.7577	-0.4	23900.936 ^B	2	3.417	6.380	-1.66 ^b	
		3-4	2.38	4177.0756	4175.8986	4.4	23940.194 ^D	-25	3.396	6.365	...	
		2-2	2.62	4170.1167	4168.9416	-1.6	23980.144 ^B	9	3.417	6.390	-1.65 ^b	
		4-5	4.02	4155.9770	4154.8055	0.2	24061.731 ^A	-1	3.368	6.351	-0.40 ^a	
1187	$z^5F^o - f^5F$ (695)	3-3	2.88	4155.2698	4154.0985	0.0	24065.826 ^B	0	3.396	6.380	-0.37 ^b	
		5-6	3.57	4150.5351	4149.3650	0.0	24093.279 ^A	0	3.332	6.319	-0.85 ^a	
		4-4	2.79	4137.6880	4136.5213	0.5	24168.086 ^B	-3	3.368	6.365	-1.52 ^a	
		4-3	2.04	4116.2974	4115.1363	3.4	24293.677 ^C	-20	3.368	6.380	...	
		5-5	2.20	4106.0991	4104.9407	-2.4	24354.015 ^C	14	3.332	6.351	-2.18 ^b	
		5-4	3.02	4088.2476	4087.0939	0.2	24460.358 ^A	-1	3.332	6.365	-1.40 ^b	
		4-5	3.82	4177.7431	4176.5659	0.0	23936.369 ^A	0	3.368	6.336	...	
		1-2	3.62	4159.9650	4158.7924	0.2	24038.664 ^A	-1	3.430	6.410	-0.67 ^b	
		2-3	3.92	4158.9523	4157.7801	0.3	24044.517 ^A	-2	3.417	6.398	-0.40 ^a	
		3-4	4.09	4155.0709	4153.8997	0.0	24066.978 ^A	0	3.396	6.380	-0.32 ^a	
		1-1	3.15	4151.4194	4150.2491	0.0	24088.147 ^A	0	3.430	6.417	-1.26 ^b	
		2-2	2.75	4141.5701	4140.4024	-0.5	24145.432 ^D	3	3.417	6.410	...	II
		2-1	2.58	4133.1009	4131.9354	0.7	24194.909 ^B	-4	3.417	6.417	...	
		3-3	2.37	4130.6259	4129.4611	0.7	24209.406 ^C	-4	3.396	6.398	-1.97 ^b	
		5-5	3.46	4127.3466	4126.1827	-0.3	24228.641 ^A	2	3.332	6.336	-0.96 ^b	
1188	$z^5F^o - e^3D$ (697)	4-4	2.87	4116.0987	4114.9376	-0.3	24294.850 ^B	2	3.368	6.380	-1.45 ^a	
		3-2	2.76	4113.4789	4112.3185	-0.2	24310.323 ^B	1	3.396	6.410	-1.75 ^b	
		4-3	2.67	4092.1083	4090.9535	0.2	24437.281 ^B	-1	3.368	6.398	-1.76 ^b	
		3-3	2.11	4184.1850	4183.0061	1.8	23899.517 ^C	-10	3.396	6.359	-2.17 ^b	
		4-3	2.97	4144.6657	4143.4972	0.2	24127.398 ^B	-1	3.368	6.359	...	
		2-2	3.15	4135.5869	4134.4207	-5.1	24180.365 ^D	30	3.417	6.415	...	I
		3-2	2.97	4107.5817	4106.4229	0.3	24345.225 ^A	-2	3.396	6.415	-1.50 ^a	
		1-1	2.37	4102.8099	4101.6523	0.3	24373.540 ^C	-2	3.430	6.452	...	
		2-1	2.91	4084.9161	4083.7632	0.0	24480.307 ^A	0	3.417	6.452	...	
		3-4	2.20	4174.3579	4173.1816	3.5	23955.780 ^D	-20	3.396	6.366	...	
		4-4	3.21	4135.0217	4133.8557	0.0	24183.670 ^A	0	3.368	6.366	-1.31 ^a	
		3-3	3.06	4102.4185	4101.2611	-0.2	24375.865 ^A	1	3.396	6.419	-1.38 ^b	
		5-4	3.85	4085.6446	4084.4915	-0.2	24475.942 ^A	1	3.332	6.366	-0.71 ^a	
		2-2	2.86	4083.2603	4082.1079	0.7	24490.234 ^B	-4	3.417	6.453	-1.54 ^b	
		1-1	2.89	4073.6523	4072.5024	-0.2	24547.996 ^B	1	3.430	6.474	...	
1189	$z^5F^o - g^5D$ (698)	1-0	2.97	4066.5292	4065.3812	0.0	24590.995 ^B	0	3.430	6.479	-1.32 ^b	
		4-3	3.61	4064.4232	4063.2757	-0.2	24603.737 ^A	1	3.368	6.419	...	
		2-1	3.12	4056.0122	4054.8669	0.5	24654.758 ^A	-3	3.417	6.474	-0.94 ^b	
		3-2	3.22	4055.9509	4054.8056	0.0	24655.131 ^A	0	3.396	6.453	...	
		2-3	2.59	4119.0146	4117.8528	0.3	24277.651 ^B	-2	3.417	6.427	...	
		1-2	2.15	4098.1736	4097.0172	1.0	24401.114 ^D	-6	3.430	6.455	...	
		3-3	2.60	4091.2272	4090.0726	0.3	24442.544 ^B	-2	3.396	6.427	-1.78 ^b	
		2-2	2.73	4080.3198	4079.1681	0.3	24507.883 ^B	-2	3.417	6.455	-1.20 ^b	
		4-3	2.68	4053.4401	4052.2954	2.3	24670.403 ^C	-14	3.368	6.427	...	
		3-2	2.94	4053.0499	4051.9053	-0.3	24672.778 ^B	2	3.396	6.455	-1.43 ^b	
		3-4	2.67	3846.3059	3845.2153	1.0	25998.972 ^C	-7	3.396	6.620	...	
		5-5	3.55	3818.7229	3817.6395	0.1	26186.765 ^A	-1	3.332	6.579	-0.70 ^b	
		4-4	2.89	3812.8864	3811.8045	0.1	26226.850 ^C	-1	3.368	6.620	...	
		2-3	4.87	3806.4228	3805.3426	0.6	26271.385 ^D	-4	3.417	6.674	...	I
1191	$z^5F^o - g^5F$ (701)	3-4	2.67	3846.3059	3845.2153	1.0	25998.972 ^C	-7	3.396	6.620	...	
		5-5	3.55	3818.7229	3817.6395	0.1	26186.765 ^A	-1	3.332	6.579	-0.70 ^b	
		4-4	2.89	3812.8864	3811.8045	0.1	26226.850 ^C	-1	3.368	6.620	...	
		2-3	4.87	3806.4228	3805.3426	0.6	26271.385 ^D	-4	3.417	6.674	...	I

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1192	$z^5F^o - h^5D$ (702)	1-1	2.53	3742.5385	3741.4748	0.6	26719.832 ^C	-4	3.430	6.743	...	
		4-4	4.39	3847.8909	3846.7998	8.7	25988.263 ^D	-59	3.368	6.590	...	I
		5-4	3.25	3805.0893	3804.0094	0.0	26280.592 ^B	0	3.332	6.590	-1.04 ^b	
		4-3	3.09	3790.8954	3789.8192	2.6	26378.992 ^B	-18	3.368	6.639	-1.23 ^b	
		2-2	2.62	3786.8616	3785.7865	-2.2	26407.091 ^C	15	3.417	6.691	...	
1193	$z^5F^o - f^5P$ (703)	1-1	2.67	3778.4033	3777.3303	-0.9	26466.206 ^C	6	3.430	6.711	...	
		4-3	2.99	3847.0760	3845.9851	0.4	25993.768 ^B	-3	3.368	6.591	-1.18 ^b	
		3-2	3.04	3820.5771	3819.4932	0.1	26174.056 ^B	-1	3.396	6.641	-1.30 ^b	
1194	$z^5F^o - f^5G$ (704)	2-1	2.83	3792.8191	3791.7424	0.1	26365.613 ^C	-1	3.417	6.686	-1.39 ^b	
		4-5	2.73	3829.2369	3828.1507	0.3	26114.864 ^D	-2	3.368	6.606	...	II
		5-6	3.28	3803.0634	3801.9840	0.3	26294.592 ^A	-2	3.332	6.592	-1.01 ^b	
		3-4	2.58	3791.5718	3790.4954	-0.1	26374.286 ^C	1	3.396	6.666	...	
		4-4	2.83	3759.0941	3758.0261	0.4	26602.154 ^C	-3	3.368	6.666	...	
1195	$z^5F^o - e^3G$ (705)	1-2	2.63	3744.0085	3742.9445	-2.1	26709.341 ^C	15	3.430	6.741	...	
		4-5	3.05	3763.2727	3762.2036	0.0	26572.616 ^B	0	3.368	6.663	-1.18 ^b	
		3-4	...	3749.275	3748.209	...	26671.825 ^D	...	3.396	6.703	...	MI
		2-3	2.69	3728.5871	3727.5270	-1.7	26819.811 ^C	12	3.417	6.742	...	
		5-5	3.82	3722.3308	3721.2724	-0.3	26864.888 ^D	2	3.332	6.663	...	I
1196	$z^5F^o - f^3D$ (706)	3-3	2.92	3794.6643	3793.5871	2.2	26352.792 ^B	-15	3.396	6.664	...	
		2-2	2.83	3772.5630	3771.4916	1.4	26507.178 ^D	-10	3.417	6.703	...	I
1197	$z^5F^o - s^6D6s^5D$	4-3	3.03	3610.3661	3609.3366	-1.7	27698.022 ^B	13	3.368	6.802	...	
		3-2	2.77	3604.9696	3603.9415	-1.4	27739.485 ^C	11	3.396	6.836	...	
		2-1	2.58	3604.1165	3603.0886	-1.3	27746.051 ^C	10	3.417	6.857	...	
1198	$z^5F^o - s^6D5d^7F$	2-2	4.17	3393.2787	3392.3049	0.7	29470.023 ^D	-6	3.417	7.071	...	I
		3-3	3.94	3368.1835	3367.2161	-0.7	29689.594 ^D	6	3.396	7.077	...	Ne
1199	$z^5F^o - s^6D5d^7D$ (708*)	4-5	2.94	3417.0261	3416.0463	-1.8	29265.214 ^B	15	3.368	6.996	...	
		2-3	2.45	3388.5895	3387.6169	-2.1	29510.804 ^D	18	3.417	7.076	...	I
1200	$z^5F^o - s^6D5d^5F$	5-5	2.26	3345.9010	3344.9393	1.1	29887.316 ^D	-10	3.332	7.037	...	
1201	$z^5F^o - s^4D4d^5F$	1-1	2.45	3257.6399	3256.7007	0.3	30697.070 ^C	-3	3.430	7.236	...	
		3-4	2.54	3254.7624	3253.8239	-2.9	30724.209 ^D	27	3.396	7.206	...	I
		3-3	2.88	3253.3670	3252.4289	0.0	30737.387 ^C	0	3.396	7.207	...	
		2-1	1	3246.346	3245.410	-2.1	30803.86 ^D	20	3.417	7.236	...	
		1-2	d0	3241.905	3240.970	-2.1	30846.06 ^D	20	3.430	7.254	...	
		4-4	3.00	3230.8034	3229.8710	-0.2	30952.054 ^B	2	3.368	7.206	...	
		2-2	2.30	3230.7262	3229.7938	0.8	30952.793 ^D	-8	3.417	7.254	...	
		4-3	4	3229.427	3228.494	0.0	30965.25 ^D	0	3.368	7.207	...	
		3-2	d0?	3213.601	3212.673	-4.1	31117.74 ^D	40	3.396	7.254	...	
		5-4	1	3200.578	3199.653	-3.1	31244.36 ^D	30	3.332	7.206	...	
1202	$z^5F^o - i^5D$ (710*)	3-3	2.49	3287.3916	3286.4448	-0.5	30419.254 ^C	5	3.396	7.168	...	
		4-4	2.83	3275.3946	3274.4508	-0.3	30530.673 ^D	3	3.368	7.153	...	II
		3-2	2.54	3270.1714	3269.2290	0.7	30579.437 ^C	-7	3.396	7.188	...	
		4-3	2.71	3262.9489	3262.0084	-0.5	30647.124 ^C	5	3.368	7.168	...	
		5-4	3.02	3244.3355	3243.3996	-1.4	30822.953 ^D	13	3.332	7.153	...	Ne
1203	$z^5F^o - s^6D7s^7D$	4-4	d0?	3222.575	3221.644	0.0	31031.09 ^D	0	3.368	7.215	...	
		3-3	2*	3216.914	3215.985	-7.2	31085.69 ^D	70	3.396	7.250	...	I
		1-1	4	3216.143	3215.215	8.3	31093.14 ^D	-80	3.430	7.285	...	
		2-2	12	3212.923	3211.995	-9.3	31124.31 ^D	90	3.417	7.276	...	I
		3-2	d0?	3195.994	3195.070	-5.1	31289.17 ^D	50	3.396	7.276	...	
1204	$z^5F^o - g^5G$ (711)	4-5	4.20	3214.9410	3214.0126	-13.3	31104.770 ^D	129	3.368	7.224	...	I
		3-4	3.46	3212.8030	3211.8751	0.0	31125.469 ^A	0	3.396	7.255	...	
		5-6	3.74	3212.6052	3211.6774	0.0	31127.385 ^A	0	3.332	7.191	...	
		2-3	3.54	3210.2254	3209.2982	0.0	31150.461 ^D	0	3.417	7.279	...	I
		1-2	3.13	3209.3976	3208.4706	0.0	31158.495 ^B	0	3.430	7.293	...	
		2-2	2.36	3198.4382	3197.5140	0.0	31265.259 ^D	0	3.417	7.293	...	
		3-3	d5	3193.329	3192.406	7.1	31315.28 ^D	-70	3.396	7.279	...	I
		4-4	3*	3189.452	3188.530	0.0	31353.35 ^D	0	3.368	7.255	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1205	$z^5F^o-s^4D4d^5P$	5-5	3	3185.028	3184.107	1.0	31396.90 ^D	-10	3.332	7.224	...	I
		4-3	0	3170.252	3169.335	0.0	31543.23 ^D	0	3.368	7.279	...	
		2-2	2.57	3262.2660	3261.3256	-0.1	30653.540 ^C	1	3.417	7.217	...	
		3-2	2.34	3244.8109	3243.8749	-0.6	30818.437 ^D	6	3.396	7.217	...	
		3-3	2.57	3216.7623	3215.8334	0.3	31087.159 ^C	-3	3.396	7.251	...	
1206	$z^5F^o-s^6D7s^5D$	4-4	d0?	3209.803	3208.876	0.0	31154.56 ^D	0	3.368	7.231	...	
		5-4	1	3179.967	3179.047	-3.0	31446.87 ^D	30	3.332	7.231	...	
1207	$z^5F^o-s^4D4d^3G$	4-5	5	3192.297	3191.374	0.0	31325.41 ^D	0	3.368	7.252	...	II
		3-4	2	3167.508	3166.592	2.0	31570.56 ^D	-20	3.396	7.311	...	I
		3-4	2.20	3167.5031	3166.5867	-2.6	31570.608 ^D	26	3.396	7.311	...	
1208	$z^5F^o-^4F5d^5F$	3-4	d0*	3205.388	3204.462	-8.2	31197.47 ^D	80	3.396	7.264	...	II
		4-4	d0	3182.158	3181.237	3.0	31425.22 ^D	-30	3.368	7.264	...	
		5-5	2.30	3152.9172	3152.0045	-0.5	31716.659 ^D	5	3.332	7.264	...	
1209	$z^5F^o-58661^e$	3-4	0?	3198.235	3197.310	3.6	31267.25 ^D	-35	3.396	7.273	...	
1210	$z^5F^o-s^4D4d^3D$	2-3	7	3213.088	3212.160	2.1	31122.71 ^D	-20	3.417	7.275	...	
		3-3	3	3196.153	3195.230	1.0	31287.61 ^D	-10	3.396	7.275	...	
		2-2	0?	3182.669	3181.749	6.1	31420.17 ^D	-60	3.417	7.312	...	
		3-2	d0?	3166.044	3165.128	-3.0	31585.16 ^D	30	3.396	7.312	...	
1211	$z^5F^o-58831^e$	3-3	0	3181.014	3180.094	1.7	31436.52 ^D	-17	3.396	7.294	...	
		4-3	0	3158.118	3157.204	-2.2	31664.43 ^D	22	3.368	7.294	...	
1212	$z^5F^o-58906^e$	3-4	0*	3173.417	3172.500	-2.7	31511.77 ^D	27	3.396	7.303	...	
		4-4	1	3150.635	3149.723	-1.6	31739.63 ^D	16	3.368	7.303	...	
1213	$z^5F^o-^4F5d^3G$	4-5	0	3160.038	3159.123	0.0	31645.19 ^D	0	3.368	7.292	...	II
		5-5	d0?	3131.113	3130.205	-5.9	31937.53 ^D	60	3.332	7.292	...	
1214	$z^5F^o-s^6D_{4.5}6d[2.5]$	2-3	3.50	3158.7993	3157.8850	1.9	31657.599 ^D	-19	3.417	7.342	...	I
	$z^5F^o-s^6D_{4.5}6d[2.5]$	3-3	d0?	3142.423	3141.513	-5.9	31822.58 ^D	60	3.396	7.342	...	
	$z^5F^o-s^6D_{4.5}6d[5.5]$	4-5	0	3123.441	3122.536	-5.9	32015.97 ^D	60	3.368	7.337	...	
	$z^5F^o-s^6D_{4.5}6d[2.5]$	4-3	1	3120.086	3119.181	-1.0	32050.40 ^D	10	3.368	7.342	...	
	$z^5F^o-s^6D_{4.5}6d[3.5]$	4-4	d0?	3118.316	3117.412	6.8	32068.59 ^D	-70	3.368	7.344	...	
	$z^5F^o-s^6D_{4.5}6d[3.5]$	4-3	0	3116.762	3115.858	0.0	32084.58 ^D	0	3.368	7.346	...	
	$z^5F^o-s^6D_{4.5}6d[4.5]$	5-5	d0	3100.569	3099.670	5.8	32252.14 ^D	-60	3.332	7.331	...	I
	$z^5F^o-s^6D_{4.5}6d[4.5]$	5-4	0?	3099.898	3098.998	-5.8	32259.13 ^D	60	3.332	7.331	...	
	$z^5F^o-s^6D_{4.5}6d[6.5]$	5-6	5	3098.679	3097.780	0.0	32271.82 ^D	0	3.332	7.333	...	
	$z^5F^o-s^6D_{4.5}6d[5.5]$	5-5	4	3095.189	3094.291	-1.9	32308.20 ^D	20	3.332	7.337	...	
	$z^5F^o-s^6D_{3.5}6d[2.5]$	1-2	d1	3139.932	3139.023	-3.0	31847.82 ^D	30	3.430	7.379	...	
1215	$z^5F^o-s^6D_{3.5}6d[1.5]$	2-2	0?	3124.034	3123.129	-9.8	32009.89 ^D	100	3.417	7.385	...	Ne
	$z^5F^o-s^6D_{3.5}6d[4.5]$	3-4	1	3111.566	3110.663	0.0	32138.16 ^D	0	3.396	7.381	...	
	$z^5F^o-s^6D_{3.5}6d[4.5]$	4-4	3	3089.658	3088.761	-1.0	32366.04 ^D	10	3.368	7.381	...	
	$z^5F^o-s^6D_{3.5}6d[2.5]$	4-3	3.11	3089.1112	3088.2145	0.0	32371.771 ^D	0	3.368	7.382	...	
	$z^5F^o-s^6D_{3.5}6d[5.5]$	4-5	4	3087.420	3086.524	0.0	32389.50 ^D	0	3.368	7.384	...	
	$z^5F^o-s^6D_{3.5}6d[3.5]$	5-4	6	3067.377	3066.486	-4.7	32601.14 ^D	50	3.332	7.374	...	
	$z^5F^o-^5D4p^2^7F$	3-4	d0?	3098.858	3097.959	5.8	32269.95 ^D	-60	3.396	7.397	...	
		4-5	5	3090.520	3089.623	4.8	32357.01 ^D	-50	3.368	7.380	...	
1216		5-5	d0?	3062.859	3061.969	9.4	32649.23 ^D	-100	3.332	7.380	...	
		2-2	0?	3032.743	3031.860	6.4	32973.45 ^D	-70	3.417	7.505	...	
		1-1	d8	3118.881	3117.977	3.9	32062.78 ^D	-40	3.430	7.405	...	
		1-1	4	3115.200	3114.297	-8.7	32100.67 ^D	90	3.430	7.410	...	
1217	$z^5F^o-s^6D_{2.5}6d[0.5]$	2-1	0?	3108.525	3107.623	-1.0	32169.60 ^D	10	3.417	7.405	...	II
	$z^5F^o-s^6D_{2.5}6d[1.5]$	2-1	0	3104.882	3103.982	0.0	32207.34 ^D	0	3.417	7.410	...	
	$z^5F^o-s^6D_{2.5}6d[2.5]$	2-2	1	3097.514	3096.616	1.9	32283.95 ^D	-20	3.417	7.419	...	
	$z^5F^o-s^6D_{2.5}6d[3.5]$	2-3	0	3093.380	3092.482	1.0	32327.10 ^D	-10	3.417	7.425	...	
	$z^5F^o-s^6D_{2.5}6d[4.5]$	3-4	0?	3092.977	3092.079	-8.6	32331.31 ^D	90	3.396	7.405	...	
	$z^5F^o-s^6D_{2.5}6d[2.5]$	3-3	1	3083.953	3083.057	4.8	32425.92 ^D	-50	3.396	7.417	...	
	$z^5F^o-s^6D_{2.5}6d[2.5]$	3-2	d0?	3081.774	3080.879	2.8	32448.84 ^D	-30	3.396	7.419	...	I
	$z^5F^o-s^6D_{2.5}6d[3.5]$	3-4	1	3078.442	3077.548	0.0	32483.96 ^D	0	3.396	7.424	...	
	$z^5F^o-s^6D_{2.5}6d[4.5]$	4-5	2.82	3072.0175	3071.1251	0.4	32551.898 ^D	-4	3.368	7.404	...	
												Ne

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1218	$z^5F^\circ-s^6D_{2.5}6d$ [3.5]	4-4	0	3056.990	3056.101	-8.4	32711.92 ^D	90	3.368	7.424	...	I
	$z^5F^\circ-s^6D_{2.5}6d$ [3.5]	4-3	2	3056.245	3055.357	0.0	32719.89 ^D	0	3.368	7.425	...	II
	$z^5F^\circ-s^6D_{2.5}6d$ [4.5]	5-5	1	3044.681	3043.796	0.9	32844.16 ^D	-10	3.332	7.404	...	II
	$z^5F^\circ-s^6D_{1.5}6d$ [0.5]	1-1	2	3095.769	3094.871	1.9	32302.15 ^D	-20	3.430	7.435	...	I
	$z^5F^\circ-s^6D_{1.5}6d$ [1.5]	1-1	1	3092.772	3091.875	0.0	32333.45 ^D	0	3.430	7.439	...	
	$z^5F^\circ-s^6D_{1.5}6d$ [1.5]	2-1	0	3082.595	3081.700	0.0	32440.20 ^D	0	3.417	7.439	...	
	$z^5F^\circ-s^6D_{1.5}6d$ [1.5]	2-2	0	3079.248	3078.354	0.0	32475.46 ^D	0	3.417	7.443	...	
	$z^5F^\circ-s^6D_{1.5}6d$ [3.5]	2-3	2	3073.380	3072.487	-2.8	32537.47 ^D	30	3.417	7.451	...	
	$z^5F^\circ-s^6D_{1.5}6d$ [2.5]	3-2	0?	3058.967	3058.078	3.7	32690.77 ^D	-40	3.396	7.449	...	
	$z^5F^\circ-s^6D_{1.5}6d$ [2.5]	4-3	3	3038.666	3037.782	-6.5	32909.18 ^D	70	3.368	7.448	...	I
1219	$z^5F^\circ-s^6D_{0.5}6d$ [1.5]	1-2	3	3080.504	3079.610	2.8	32462.22 ^D	-30	3.430	7.455	...	
	$z^5F^\circ-s^6D_{0.5}6d$ [1.5]	2-1	2	3065.728	3064.837	-0.9	32618.68 ^D	10	3.417	7.461	...	
1220	$z^5F^\circ-62192^e$	4-5	d0?	2855.022	2854.183	-6.5	35026.00 ^D	80	3.368	7.711	...	
		5-5	d0?	2831.398	2830.565	-4.0	35318.24 ^D	50	3.332	7.711	...	
1221	$z^5F^\circ-62377^e$	3-4	0?	2858.534	2857.694	0.0	34982.97 ^D	0	3.396	7.734	...	
1222	$a^1P-z^3F^\circ$	1-2	1.54	21781.818	21775.874	9	4590.985 ^A	-2	3.415	3.984	...	
1223	$a^1P-z^3D^\circ$	1-2	1.59	24135.077	24128.493	6	4143.347 ^A	-1	3.415	3.928	...	
1224	$a^1P-z^3P^\circ$	1-2	2.33	15615.403	15611.138	-10	6403.933 ^A	4	3.415	4.209	...	
		1-1	1.71	14663.038	14659.031	2	6819.869 ^A	-1	3.415	4.260	...	
		1-0	1.85	14260.062	14256.165	4	7012.592 ^A	-2	3.415	4.284	...	
1225	$a^1P-y^3D^\circ$ (713)	1-2	1.45	8980.6617	8978.1969	-2.4	11135.037 ^B	3	3.415	4.795	...	
		1-1	1.57	8731.5449	8729.1475	3.8	11452.727 ^B	-5	3.415	4.835	...	
1226	$a^1P-x^5P^\circ$	1-1	1.70	6436.6545	6434.8760	-1.2	15536.021 ^D	3	3.415	5.341	...	
1227	$a^1P-y^3P^\circ$ (716)	1-0	2.91	5227.5211	5226.0661	2.5	19129.526 ^A	-9	3.415	5.786	...	
1228	$a^1P-u^5D^\circ$ (717)	1-2	2.60	5169.1512	5167.7118	-6.1	19345.536 ^C	23	3.415	5.813	...	
1229	$a^1P-Psp3^1D^\circ$ (718*)	1-2	3.08	5031.0203	5029.6176	-0.5	19876.684 ^A	2	3.415	5.879	-2.05 ^b	
1230	$a^1P-x^3P^\circ$ (720)	1-2	2.08	4816.5808	4815.2350	5.1	20761.616 ^C	-22	3.415	5.989	...	
		1-0	2.71	4780.7756	4779.4394	0.0	20917.108 ^A	0	3.415	6.008	-2.02 ^a	
1231	$a^1P-w^3F^\circ$ (723)	1-2	1.85	4568.2685	4566.9885	-1.0	21890.132 ^B	5	3.415	6.129	-2.08 ^b	
1232	$a^1P-w^3P^\circ$ (725)	1-0	2.43	4462.6250	4461.3729	0.6	22408.336 ^B	-3	3.415	6.193	...	
1233	$a^1P-t^5D^\circ$	1-2	1.98	4151.6179	4150.4476	0.3	24086.995 ^C	-2	3.415	6.401	...	
1234	$a^1P-y^1D^\circ$ (726)	1-2	3.97	4138.1645	4136.9977	0.0	24165.303 ^A	0	3.415	6.411	-0.45 ^a	
1235	$a^1P-x^1D^\circ$ (727)	1-2	3.36	4128.9772	4127.8128	-0.2	24219.073 ^A	1	3.415	6.417	...	
1236	$a^1P-u^3D^\circ$ (728)	1-1	2.88	4004.8938	4003.7619	0.2	24969.451 ^B	-1	3.415	6.510	-1.31 ^a	
1237	$a^1P-t^3D^\circ$ (729)	1-2	3.58	3977.7380	3976.6132	-0.3	25139.916 ^D	2	3.415	6.532	-0.85 ^a	II
		1-1	2.75	3950.2591	3949.1414	0.6	25314.795 ^C	-4	3.415	6.553	-1.56 ^b	
1238	$a^1P-v^3P^\circ$ (731)	1-1	3.68	3893.0292	3891.9264	-0.3	25686.938 ^A	2	3.415	6.599	-0.73 ^a	
1239	$a^1P-Gsp3^3F^\circ$	1-2	3.31	3815.8616	3814.7789	-0.3	26206.401 ^B	2	3.415	6.664	...	
1240	$a^1P-^4F5p^5F^\circ$	1-2	2.56	3773.6548	3772.5831	1.9	26499.509 ^C	-13	3.415	6.700	...	
1241	$a^1P-^4F5p^3F^\circ$	1-2	2.86	3681.4258	3680.3779	-0.9	27163.389 ^B	7	3.415	6.782	...	
1242	$a^1P-Dsp3^5F^\circ$	1-2	2.68	3819.7015	3818.6178	2.6	26180.056 ^D	-18	3.415	6.661	...	
1243	$a^1P-x^3S^\circ$	1-1	3.53	3807.2972	3806.2167	-0.3	26265.352 ^A	2	3.415	6.671	-0.82 ^b	
1244	$a^1P-^4F5p^3D^\circ$	1-1	2.57	3667.8113	3666.7670	3.8	27264.216 ^C	-28	3.415	6.795	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1245	$a^1P-Dsp3^5D^o$	1-1	2.88	3783.1915	3782.1173	4.2	26432.709 ^B	-29	3.415	6.692	...	
1246	$a^1P-w^1D^o$	1-2	3.54	3544.6874	3543.6749	-0.5	28211.232 ^B	4	3.415	6.912	-0.77 ^b	
1247	$a^1P-u^3F^o$ (734)	1-2	3.59	3411.1475	3410.1692	-0.1	29315.648 ^A	1	3.415	7.049	-0.35 ^a	
1248	$a^1P-t^3F^o$ (735)	1-2	2.48	3315.0201	3314.0663	0.7	30165.730 ^C	-6	3.415	7.155	...	
1249	$a^1P-s^4D5p^5D^o$ (736)	1-1	d0?	3228.201	3227.269	-1.0	30977.01 ^D	10	3.415	7.255	...	
1250	$a^1P-s^4D5p^3D^o$	1-1	d0?	3241.298	3240.363	1.1	30851.84 ^D	-10	3.415	7.240	...	
1251	$a^1D-z^3D^o$	2-3	2.01	36791.772	36781.740	14	2717.999 ^A	-1	3.546	3.883	...	
1252	$a^1D-z^3P^o$	2-2	1.08	18718.462	18713.353	4	5342.319 ^A	-1	3.546	4.209	...	
1253	$a^1D-z^3G^o$	2-3	1.26	13378.373	13374.716	16	7474.750 ^A	-9	3.546	4.473	...	
1254	$a^1D-y^3F^o$	2-3	1.78	11684.794	11681.596	3	8558.131 ^A	-2	3.546	4.607	...	
1255	$a^1D-y^5P^o$	2-2	1.92	11691.866	11688.667	-1	8552.954 ^B	1	3.546	4.607	...	
1256	$a^1D-y^3D^o$ (737)	2-2	1.72	9927.1102	9924.3891	-1.0	10073.425 ^A	1	3.546	4.795	...	
1257	$a^1D-y^7P^o$	2-3	2.14	8618.8411	8616.4741	-8.2	11602.488 ^B	11	3.546	4.985	...	
1258	$a^1D-x^3D^o$ (738)	2-2	0.00	5996.2043	5994.5439	0.7	16677.217 ^B	-2	3.546	5.614	...	
		2-1	0.60	5900.6982	5899.0635	1.7	16947.147 ^A	-5	3.546	5.648	...	
1259	$a^1D-y^3G^o$	2-3	0.60	5896.7970	5895.1633	0.3	16958.359 ^A	-1	3.546	5.649	...	
1260	$a^1D-x^3F^o$	2-3	2.23	5408.8791	5407.3758	-6.4	18488.119 ^D	22	3.546	5.839	...	Ar
1261	$a^1D-v^5F^o$ (745)	2-3	1.30	5123.4004	5121.9732	6.8	19518.287 ^D	-26	3.546	5.966	...	
1262	$a^1D-x^3P^o$ (748)	2-1	2.13	5022.2173	5020.8170	0.0	19911.524 ^B	0	3.546	6.015	...	
1263	$a^1D-w^3F^o$ (750)	2-3	2.88	4845.3671	4844.0138	0.2	20638.271 ^A	-1	3.546	6.105	-2.05 ^a	
1264	$a^1D-v^3D^o$ (751)	2-3	2.39	4870.8240	4869.4639	0.5	20530.407 ^B	-2	3.546	6.092	-2.52 ^b	
		2-1	2.57	4832.5518	4831.2019	4.7	20693.001 ^D	-20	3.546	6.112	...	II
1265	$a^1D-v^3G^o$ (752)	2-3	2.47	4706.7736	4705.4570	-0.2	21245.976 ^B	1	3.546	6.180	-2.31 ^b	
1266	$a^1D-Fsp3^1F^o$ (753*)	2-3	4.06	4790.9897	4789.6508	-0.2	20872.514 ^A	1	3.546	6.134	-0.96 ^a	
1267	$a^1D-w^3P^o$ (754)	2-1	2.29	4664.4837	4663.1782	-0.2	21438.600 ^B	1	3.546	6.204	-2.42 ^b	
1268	$a^1D-z^1F^o$ (755)	2-3	3.89	4549.1224	4547.8474	0.2	21982.262 ^A	-1	3.546	6.272	-1.01 ^a	
1269	$a^1D-u^5F^o$ (756)	2-3	2.04	4345.0904	4343.8692	-3.8	23014.481 ^D	20	3.546	6.400	...	
1270	$a^1D-t^5D^o$	2-2	1.95	4343.0340	4341.8134	1.5	23025.378 ^D	-8	3.546	6.401	...	
1271	$a^1D-v^3F^o$ (757)	2-2	2.40	4425.4302	4424.1879	0.2	22596.673 ^B	-1	3.546	6.348	...	
1272	$a^1D-u^3G^o$ (760)	2-3	2.54	4306.4180	4305.2070	0.7	23221.155 ^B	-4	3.546	6.425	-2.07 ^b	
1273	$a^1D-y^1D^o$ (761)	2-2	3.56	4328.3124	4327.0956	0.0	23103.693 ^A	0	3.546	6.411	-0.80 ^a	
1274	$a^1D-x^1D^o$ (762)	2-2	2.11	4318.2616	4317.0475	-1.1	23157.467 ^C	6	3.546	6.417	-2.17 ^b	
1275	$a^1D-u^3D^o$ (763)	2-1	2.62	4182.7285	4181.5500	0.5	23907.839 ^B	-3	3.546	6.510	...	
1276	$a^1D-^2P4p^1P^o$	2-1	3.00	4241.5647	4240.3708	0.0	23576.205 ^A	0	3.546	6.469	-1.27 ^a	
1277	$a^1D-t^3D^o$ (764)	2-2	2.90	4153.1156	4151.9448	-0.7	24078.309 ^B	4	3.546	6.532	...	

TABLE 2—*Continued*

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1278	$a^1D-^4F5p^3G^o$	2-3	2.84	3883.0738	3881.9736	-0.6	25752.794 ^C	4	3.546	6.739	...	
1279	$a^1D-v^3P^o$ (766)	2-1	2.99	4060.8601	4059.7135	0.0	24625.325 ^A	0	3.546	6.599	-1.37 ^a	
1280	$a^1D-Gsp3^3F^o$	2-3	2.66	4039.9310	4038.7899	0.3	24752.898 ^B	-2	3.546	6.615	...	
		2-2	2.56	3976.9659	3975.8412	-1.3	25144.797 ^C	8	3.546	6.664	...	
1281	$a^1D-^4F5p^5F^o$	2-3	3.13	3990.9855	3989.8572	-0.6	25056.468 ^B	4	3.546	6.653	-1.08 ^b	
1282	$a^1D-^4F5p^5D^o$	2-3	3.21	3971.3840	3970.2608	-0.6	25180.139 ^B	4	3.546	6.668	...	
1283	$a^1D-x^1F^o$ (769)	2-3	3.38	3974.7734	3973.6493	-0.5	25158.667 ^A	3	3.546	6.666	-1.02 ^a	
1284	$a^1D-Dsp3^5D^o$	2-2	2.88	3951.2559	3950.1379	-0.6	25308.409 ^D	4	3.546	6.684	...	
1285	$a^1D-t^3G^o$ (771)	2-3	3.10	3846.7858	3845.6950	0.9	25995.729 ^B	-6	3.546	6.769	-1.04 ^a	
1286	$a^1D-s^3G^o$ (774)	2-3	3.90	3678.3532	3677.3061	0.1	27186.079 ^A	-1	3.546	6.917	-0.49 ^a	
1287	$a^1D-w^1D^o$ (772)	2-2	4.16	3683.2924	3682.2441	-0.8	27149.623 ^D	6	3.546	6.912	0.24 ^b	Ne
1288	$a^1D-Gsp3^1F^o$	2-3	3.56	3637.2600	3636.2236	-0.3	27493.223 ^A	2	3.546	6.955	-0.52 ^a	
1289	$a^1D-Fsp1^3F^o$	2-3	0?	3167.778	3166.861	-2.0	31567.87 ^D	20	3.546	7.460	...	
1290	$a^1H-y^3G^o$ (780)	5-4	1.34	6021.0329	6019.3659	0.0	16608.446 ^A	0	3.573	5.632	-3.36 ^b	
1291	$a^1H-x^5G^o$ (781)	5-4	0.00	5877.7624	5876.1338	-3.5	17013.277 ^C	10	3.573	5.682	...	
1292	$a^1H-z^3I^o$	5-6	0.70	5811.5822	5809.9713	-0.7	17207.018 ^A	2	3.573	5.706	...	
		5-5	0.78	5775.0515	5773.4503	0.7	17315.863 ^A	-2	3.573	5.720	...	
1293	$a^1H-u^5D^o$ (782)	5-4	2.30	5586.3154	5584.7647	-0.3	17900.887 ^A	1	3.573	5.792	-2.32 ^b	
1294	$a^1H-x^3F^o$ (783)	5-4	2.44	5534.2839	5532.7472	0.3	18069.185 ^A	-1	3.573	5.813	-2.15 ^b	
1295	$a^1H-z^3H^o$ (784)	5-6	1.30	5505.8912	5504.3620	0.3	18162.364 ^C	-1	3.573	5.825	...	
		5-4	2.64	5468.5070	5466.9878	0.6	18286.527 ^A	-2	3.573	5.840	-2.23 ^a	
1296	$a^1H-w^5G^o$ (785)	5-6	2.28	5392.7456	5391.2466	-2.9	18543.430 ^D	10	3.573	5.872	...	II
		5-4	2.75	5327.6244	5326.1428	0.3	18770.092 ^A	-1	3.573	5.900	...	
1297	$a^1H-z^1G^o$ (786)	5-4	3.94	5366.8911	5365.3991	0.3	18632.761 ^A	-1	3.573	5.883	-1.02 ^a	
1298	$a^1H-v^5F^o$ (787)	5-4	2.06	5232.8449	5231.3885	-6.3	19110.064 ^C	23	3.573	5.942	...	
1299	$a^1H-x^3G^o$ (788)	5-4	2.94	5265.3300	5263.8650	0.0	18992.162 ^A	0	3.573	5.928	-2.14 ^a	
		5-5	2.36	5259.1186	5257.6553	0.6	19014.593 ^B	-2	3.573	5.931	...	
1300	$a^1H-y^5H^o$	5-6	3.38	5253.4277	5251.9659	-1.1	19035.191 ^A	4	3.573	5.933	...	
		5-5	2.52	5151.6318	5150.1971	0.0	19411.325 ^B	0	3.573	5.980	...	
		5-4	2.63	5117.2037	5115.7781	1.0	19541.923 ^A	-4	3.573	5.996	-2.74 ^b	
1301	$a^1H-Hsp3^1I^o$	5-6	2.86	5187.1702	5185.7260	1.1	19278.334 ^B	-4	3.573	5.963	...	
1302	$a^1H-z^1H^o$ (790)	5-5	3.49	5111.7829	5110.3588	0.3	19562.646 ^A	-1	3.573	5.998	-1.37 ^a	
1303	$a^1H-y^1G^o$ (791)	5-4	3.80	5029.5286	5028.1264	0.3	19882.579 ^A	-1	3.573	6.038	-1.12 ^a	
1304	$a^1H-w^3F^o$ (792)	5-4	2.84	4928.7937	4927.4182	0.2	20288.940 ^A	-1	3.573	6.089	-2.07 ^a	
1305	$a^1H-y^3H^o$ (793)	5-6	1.95	4851.0236	4849.6688	0.5	20614.206 ^C	-2	3.573	6.129	-2.68 ^b	
		5-5	2.17	4811.2827	4809.9384	-1.6	20784.478 ^B	7	3.573	6.150	-2.72 ^b	
1306	$a^1H-v^3G^o$ (794)	5-4	2.36	4805.8622	4804.5193	1.6	20807.921 ^B	-7	3.573	6.153	-2.59 ^b	
1307	$a^1H-x^1G^o$ (795)	5-4	3.18	4588.4129	4587.1276	0.0	21794.028 ^A	0	3.573	6.275	-1.74 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{gir}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1308	$a^1H-x^3H^o$ (796)	5-6	2.79	4503.8539	4502.5909	0.0	22203.207 ^A	0	3.573	6.326	-2.35 ^b	
		5-5	2.11	4494.6313	4493.3707	-0.6	22248.766 ^C	3	3.573	6.331	-3.04 ^b	
		5-4	2.30	4426.8990	4425.6563	-1.4	22589.176 ^C	7	3.573	6.374	...	
1309	$a^1H-u^3G^o$ (797)	5-5	2.91	4433.8124	4432.5678	0.0	22553.954 ^A	0	3.573	6.369	-1.60 ^b	
		5-4	2.15	4376.7063	4375.4768	-0.2	22848.232 ^D	1	3.573	6.406	...	
1310	$a^1H-Hsp3^1H^o$ (799a*)	5-5	3.39	4383.9994	4382.7680	0.2	22810.222 ^A	-1	3.573	6.401	-1.31 ^a	
1311	$a^1H-w^3H^o$ (799)	5-4	2.38	4175.5786	4174.4019	1.7	23948.777 ^D	-10	3.573	6.542	...	
1312	$a^1H-y^3I^o$ (800)	5-6	4.51	4220.5488	4219.3604	0.4	23693.601 ^A	-2	3.573	6.511	0.00 ^a	
1313	$a^1H-z^1I^o$ (801)	5-6	4.68	4119.7070	4118.5450	0.2	24273.571 ^A	-1	3.573	6.583	0.21 ^a	
1314	$a^1H-t^3G^o$ (803)	5-5	2.55	3974.0393	3972.9155	3.5	25163.314 ^D	-22	3.573	6.693	...	
1315	$a^1H-w^1G^o$ (804)	5-4	3.78	3847.5003	3846.4094	-0.1	25990.901 ^A	1	3.573	6.795	-0.47 ^a	
1316	$a^1H-s^3G^o$ (807)	5-5	3.98	3758.0051	3756.9374	0.0	26609.863 ^A	0	3.573	6.872	-0.25 ^b	
1317	$a^1H-v^3H^o$ (805)	5-5	4.42	3744.5324	3743.4682	0.1	26705.604 ^A	-1	3.573	6.884	0.15 ^a	
1318	$a^1H-^2H4p^1H^o$	5-5	3.96	3691.7772	3690.7267	-0.4	27087.225 ^A	3	3.573	6.931	-0.17 ^a	
1319	$a^1H-u^3H^o$ (808)	5-5	2.97	3628.0903	3627.0562	-0.7	27562.710 ^B	5	3.573	6.990	-1.37 ^a	
		5-4	3.54	3622.7517	3621.7190	0.0	27603.327 ^A	0	3.573	6.995	-0.72 ^a	
1320	$a^1H-u^3F^o$ (809)	5-4	3.67	3600.6521	3599.6251	-0.1	27772.747 ^A	1	3.573	7.016	-0.39 ^a	
1321	$a^1H-v^1G^o$ (810)	5-4	4.34	3554.7537	3553.7386	0.1	28131.344 ^A	-1	3.573	7.061	0.27 ^a	
1322	$a^1H-x^3I^o$ (811)	5-6	2.68	3539.7933	3538.7820	-2.9	28250.237 ^D	23	3.573	7.076	-1.73 ^b	
		5-5	3.06	3535.5359	3534.5257	0.6	28284.255 ^D	-5	3.573	7.080	-1.34 ^a	I
1323	$a^1H-t^3F^o$ (812)	5-4	2.45	3480.6735	3479.6774	-2.3	28730.072 ^D	19	3.573	7.135	...	
1324	$a^1H-t^3H^o$ (813)	5-5	0	3151.672	3150.760	-3.0	31729.19 ^D	30	3.573	7.507	...	II
1325	$z^5P^o-e^5D$ (816)	2-3	5.34	6413.4216	6411.6493	0.8	15592.301 ^A	-2	3.654	5.587	-0.72 ^a	
		1-2	4.87	6409.7896	6408.0184	0.8	15601.136 ^A	-2	3.686	5.620	...	
		3-4	5.69	6401.7704	6400.0012	0.8	15620.679 ^A	-2	3.602	5.539	-0.52 ^b	
		1-1	4.81	6338.5765	6336.8243	0.8	15776.413 ^A	-2	3.686	5.642	-1.05 ^b	
		1-0	4.03	6304.2365	6302.4936	0.0	15862.349 ^A	0	3.686	5.653	-0.91 ^c	
		2-2	4.52	6303.2439	6301.5012	0.8	15864.847 ^A	-2	3.654	5.620	...	
		3-3	3.69	6248.0467	6246.3188	0.8	16005.002 ^A	-2	3.602	5.587	-0.88 ^a	
		2-1	2.90	6234.3654	6232.6412	0.8	16040.125 ^A	-2	3.654	5.642	-0.96 ^c	
		3-2	2.71	6143.4318	6141.7320	1.1	16277.547 ^A	-3	3.602	5.620	-1.61 ^b	
1326	$z^5P^o-e^7F$ (819)	2-1	1.85	4600.0284	4598.7400	-5.1	21738.996 ^D	24	3.654	6.349	-2.66 ^b	
		3-2	2.59	4489.3922	4488.1331	-0.8	22274.730 ^B	4	3.602	6.364	-1.72 ^b	
1327	$z^5P^o-f^7D$ (820)	1-2	2.61	4702.3601	4701.0447	-2.0	21265.917 ^D	9	3.686	6.323	-1.96 ^b	I
		1-1	2.79	4691.4506	4690.1380	0.2	21315.369 ^D	-1	3.686	6.329	-1.64 ^a	II
		2-3	3.14	4674.4717	4673.1636	-0.2	21392.792 ^A	1	3.654	6.306	-1.06 ^a	
		2-2	3.15	4644.7636	4643.4634	-0.4	21529.621 ^A	2	3.654	6.323	-1.15 ^a	
		2-1	2.51	4634.1179	4632.8204	0.2	21579.080 ^A	-1	3.654	6.329	...	
		3-4	2.83	4597.3482	4596.0605	0.4	21751.670 ^A	-2	3.602	6.299	-1.37 ^a	
		3-3	2.45	4586.0010	4584.7164	0.2	21805.490 ^B	-1	3.602	6.306	...	
		3-2	3.61	4557.4030	4556.1259	-0.4	21942.321 ^A	2	3.602	6.323	-0.79 ^a	
1328	$z^5P^o-f^5D$ (821)	1-2	3.01	4769.6536	4768.3203	-0.2	20965.883 ^A	1	3.686	6.286	...	
		2-3	3.19	4747.1274	4745.8001	0.0	21065.371 ^A	0	3.654	6.265	-1.27 ^a	
		1-1	3.32	4728.7170	4727.3946	-4.7	21147.385 ^A	21	3.686	6.308	-1.16 ^a	
		2-2	3.12	4710.4057	4709.0881	0.0	21229.594 ^A	0	3.654	6.286	...	
		1-0	2.98	4706.2646	4704.9481	0.2	21248.274 ^A	-1	3.686	6.321	-1.57 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1329	$z^5P^o-e^7P$ (822)	3-4	3.79	4680.1554	4678.8458	0.0	21366.812 ^A	0	3.602	6.251	-0.83 ^a	II
		2-1	3.09	4670.4782	4669.1711	-1.7	21411.084 ^A	8	3.654	6.308	-1.21 ^a	
		3-3	3.24	4655.9081	4654.6050	-3.5	21478.087 ^D	16	3.602	6.265	-1.08 ^a	
		3-2	3.39	4620.5818	4619.2880	-0.2	21642.296 ^A	1	3.602	6.286	-1.12 ^b	
		2-3	3.32	4729.8685	4728.5457	-0.4	21142.237 ^A	2	3.654	6.275	-1.17 ^a	II
		2-2	2.36	4674.5781	4673.2700	-0.9	21392.305 ^B	4	3.654	6.306	-1.25 ^b	
		3-4	3.73	4668.7597	4667.4531	-0.4	21418.965 ^A	2	3.602	6.258	-0.75 ^a	
		3-3	3.39	4639.3086	4638.0098	0.0	21554.936 ^D	0	3.602	6.275	-1.12 ^a	
		3-2	2.61	4586.1039	4584.8192	0.0	21805.001 ^A	0	3.602	6.306	...	
		2-3	2.07	4597.7033	4596.4155	0.0	21749.990 ^B	0	3.654	6.350	-2.32 ^b	
1330	$z^5P^o-e^5G$ (823)	2-2	2.32	4565.9780	4564.6986	1.3	21901.113 ^B	-6	3.654	6.369	...	
		3-4	2.58	4561.3662	4560.0881	-0.4	21923.256 ^A	2	3.602	6.320	-1.92 ^b	
		3-3	1.85	4512.0856	4510.8205	-2.2	22162.700 ^C	11	3.602	6.350	-2.89 ^b	
		3-2	2.20	4481.5288	4480.2717	1.2	22313.814 ^C	-6	3.602	6.369	...	
		3-3	2.30	4463.4478	4462.1955	-2.4	22404.205 ^C	12	3.602	6.380	...	
1332	$z^5P^o-f^5F$ (825)	2-2	2.64	4497.2144	4495.9531	0.2	22235.987 ^B	-1	3.654	6.410	-1.72 ^b	I
		2-1	2.18	4487.2311	4485.9725	2.6	22285.458 ^C	-13	3.654	6.417	-2.35 ^b	
		3-4	3.16	4463.2221	4461.9698	1.2	22405.338 ^D	-6	3.602	6.380	-1.21 ^a	
		3-3	3.09	4435.0272	4433.7824	0.4	22547.776 ^A	-2	3.602	6.398	-1.27 ^a	
1333	$z^5P^o-e^5S$ (826)	1-2	2.58	4669.3683	4668.0616	0.0	21416.173 ^A	0	3.686	6.341	...	
		2-2	3.62	4612.5706	4611.2789	-0.2	21679.885 ^A	1	3.654	6.341	...	
		3-2	3.78	4526.4058	4525.1368	0.0	22092.584 ^A	0	3.602	6.341	...	
		2-3	2.39	4581.8610	4580.5774	0.2	21825.193 ^B	-1	3.654	6.359	-2.09 ^b	
1334	$z^5P^o-e^3D$ (827)	1-2	2.21	4543.9722	4542.6986	1.2	22007.177 ^B	-6	3.686	6.415	...	
		3-3	2.23	4496.8291	4495.5680	0.6	22237.892 ^B	-3	3.602	6.359	-2.12 ^b	
		2-2	2.66	4490.1663	4488.9069	0.8	22270.890 ^B	-4	3.654	6.415	-1.83 ^a	
		1-1	2.73	4482.8668	4481.6093	0.2	22307.154 ^A	-1	3.686	6.452	-1.42 ^b	
		3-2	2.41	4408.4707	4407.2329	-1.6	22683.603 ^D	8	3.602	6.415	...	
		3-4	3.66	4485.4780	4484.2198	-0.2	22294.168 ^A	1	3.602	6.366	-0.86 ^a	
		2-3	2.93	4483.9971	4482.7393	0.0	22301.531 ^A	0	3.654	6.419	-1.35 ^b	
		1-1	2.88	4448.0804	4446.8321	0.0	22481.608 ^A	0	3.686	6.474	-1.33 ^b	
1335	$z^5P^o-g^5D$ (828)	1-0	2.62	4439.5893	4438.3433	0.2	22524.606 ^A	-1	3.686	6.479	-1.63 ^b	M I
		2-2	...	4428.541	4427.298	...	22580.798 ^D	...	3.654	6.453	...	
		3-3	3.34	4402.5261	4401.2899	0.0	22714.232 ^A	0	3.602	6.419	-0.92 ^b	
		2-1	2.40	4396.5088	4395.2741	-0.2	22745.320 ^B	1	3.654	6.474	-1.83 ^b	
		3-2	2.61	4349.0548	4347.8326	-0.8	22993.502 ^B	4	3.602	6.453	-1.66 ^b	
		2-3	2.39	4524.6672	4523.3987	-0.4	22101.073 ^B	2	3.654	6.394	-1.99 ^b	
		3-3	2.16	4441.7259	4440.4793	0.0	22513.771 ^C	0	3.602	6.394	-2.07 ^b	
		1-1	3.23	4486.9341	4485.6756	-0.2	22286.933 ^A	1	3.686	6.449	-1.02 ^b	
1337	$z^5P^o-e^5P$ (830)	1-2	3.91	4477.3315	4476.0755	0.0	22334.732 ^A	0	3.686	6.455	...	
		2-3	3.92	4470.6298	4469.3756	0.0	22368.213 ^A	0	3.654	6.427	-0.48 ^a	
		2-1	3.57	4434.4634	4433.2187	0.2	22550.643 ^A	-1	3.654	6.449	-0.70 ^b	
		2-2	2.63	4425.0830	4423.8408	-0.6	22598.446 ^B	3	3.654	6.455	-1.61 ^b	
		3-3	3.71	4389.6397	4388.4068	-0.2	22780.913 ^A	1	3.602	6.427	-0.68 ^a	
		3-2	2.52	4345.7209	4344.4995	0.4	23011.142 ^B	-2	3.602	6.455	...	
		3-4	2.69	3933.3576	3932.2443	0.6	25423.572 ^C	-4	3.602	6.754	...	
1339	$z^5P^o-s^4D4d^5F$	1-2	2.49	3474.6787	3473.6842	1.1	28779.639 ^D	-9	3.686	7.254	...	Ne
		2-2	2.82	3443.1258	3442.1393	-1.9	29043.377 ^D	16	3.654	7.254	...	
		3-4	3.23	3440.8543	3439.8684	-0.1	29062.550 ^B	1	3.602	7.206	...	
		3-3	3.12	3439.2921	3438.3066	0.5	29075.751 ^B	-4	3.602	7.207	...	
		3-2	2.54	3394.8877	3393.9136	0.7	29456.055 ^C	-6	3.602	7.254	...	
1340	$z^5P^o-i^5D$ (835*)	1-1	2.58	3502.5693	3501.5676	-0.6	28550.470 ^D	5	3.686	7.226	...	
		3-3	3.00	3477.3397	3476.3444	0.0	28757.616 ^C	0	3.602	7.168	-0.47 ^a	
		3-2	2.90	3458.0772	3457.0869	0.8	28917.804 ^C	-7	3.602	7.188	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1341	$z^5P^o-s^4D4d^5P$	2-3	3.05	3446.7519	3445.7645	0.8	29012.822 ^B	-7	3.654	7.251	...	Ne
		3-2	2.94	3429.7312	3428.7481	-0.7	29156.804 ^D	6	3.602	7.217	-0.63 ^b	
1342	$z^5P^o-s^4D4d^3D$	1-2	2.76	3419.1446	3418.1643	0.4	29247.081 ^C	-3	3.686	7.312	...	I
		2-2	2.45	3388.5895	3387.6169	-0.8	29510.804 ^D	7	3.654	7.312	...	
1343	$z^5P^o-59077^e$	1-1	2.76	3407.8094	3406.8320	-2.2	29344.364 ^D	19	3.686	7.324	...	Ne
		2-1	2.28	3377.4608	3376.4911	1.8	29608.042 ^D	-16	3.654	7.324	...	
1344	$a^1I-z^3I^o$ (837)	6-7	0.48	6000.6001	5998.9385	-0.7	16665.000 ^A	2	3.634	5.700	...	
		6-6	0.60	5983.0219	5981.3650	-0.4	16713.962 ^A	1	3.634	5.706	...	
1345	$a^1I-z^3H^o$ (838)	6-5	2.06	5651.1986	5649.6306	0.3	17695.361 ^A	-1	3.634	5.828	-2.77 ^b	
1346	$a^1I-w^5G^o$ (839)	6-6	2.41	5540.0545	5538.5162	0.9	18050.364 ^D	-3	3.634	5.872	...	
1347	$a^1I-Hsp3^1I^o$	6-6	2.54	5323.3150	5321.8345	-1.1	18785.287 ^B	4	3.634	5.963	...	
1348	$a^1I-x^3G^o$ (841)	6-5	2.63	5399.1185	5397.6178	-0.6	18521.542 ^A	2	3.634	5.931	-2.48 ^b	
1349	$a^1I-y^5H^o$	6-5	2.82	5285.8953	5284.4248	0.0	18918.271 ^A	0	3.634	5.980	-2.42 ^a	
		6-6	3.03	5393.1216	5391.6225	-1.2	18542.137 ^A	4	3.634	5.933	...	
1350	$a^1I-z^1H^o$ (843)	6-5	3.95	5243.9504	5242.4911	0.3	19069.593 ^A	-1	3.634	5.998	-0.97 ^a	
1351	$a^1I-v^3G^o$ (845)	6-5	2.37	4963.2986	4961.9140	0.2	20147.891 ^B	-1	3.634	6.132	-2.29 ^b	
1352	$a^1I-x^3H^o$ (846)	6-6	2.07	4606.1415	4604.8515	1.5	21710.145 ^B	-7	3.634	6.326	...	
		6-5	2.31	4596.4955	4595.2080	0.8	21755.705 ^B	-4	3.634	6.331	...	
1353	$a^1I-u^3G^o$ (847)	6-5	2.88	4532.9009	4531.6302	-5.8	22060.928 ^D	28	3.634	6.369	...	I
1354	$a^1I-Hsp3^1H^o$ (848*)	6-5	3.09	4480.8597	4479.6028	4.6	22317.146 ^A	-23	3.634	6.401	...	
1355	$a^1I-y^3I^o$ (849)	6-6	3.36	4310.2426	4309.0307	0.0	23200.550 ^A	0	3.634	6.511	-1.15 ^a	
		6-5	2.34	4239.8018	4238.6084	-3.8	23586.008 ^D	21	3.634	6.558	...	
1356	$a^1I-z^1I^o$ (850)	6-6	3.44	4205.1227	4203.9383	-0.2	23780.519 ^A	1	3.634	6.583	-0.99 ^a	
1357	$a^1I-y^1H^o$ (851)	6-5	2.65	4166.5920	4165.4177	-0.3	24000.430 ^B	2	3.634	6.610	...	
1358	$a^1I-v^3H^o$	6-5	3.47	3814.9669	3813.8845	0.6	26212.547 ^A	-4	3.634	6.884	-0.80 ^a	
1359	$a^1I-^2H4p^1H^o$	6-5	2.98	3760.2231	3759.1548	0.0	26594.167 ^B	0	3.634	6.931	-0.97 ^a	
1360	$b^3D-z^3F^o$	2-3	2.60	40844.217	40833.081	0	2448.327 ^A	0	3.640	3.943	...	
		2-2	2.07	36006.867	35997.049	-26	2777.248 ^A	2	3.640	3.984	...	
		1-2	2.39	35537.044	35527.355	0	2813.965 ^A	0	3.635	3.984	...	
1361	$b^3D-z^3D^o$	2-2	2.29	42925.658	42913.955	-37	2329.609 ^B	2	3.640	3.928	...	I
		1-1	2.26	38207.312	38196.895	-15	2617.300 ^D	1	3.635	3.960	...	
1362	$b^3D-z^3P^o$	3-2	1.78	21857.340	21851.376	-5	4575.122 ^A	1	3.642	4.209	...	
		2-1	1.66	19975.514	19970.062	0	5006.129 ^A	0	3.640	4.260	...	
		1-1	1.38	19830.072	19824.660	4	5042.846 ^A	-1	3.635	4.260	...	
		1-0	1.41	19100.117	19094.903	0	5235.570 ^A	0	3.635	4.284	...	
1363	$b^3D-z^3G^o$	3-4	1.04	15635.378	15631.106	0	6395.752 ^A	0	3.642	4.434	...	
1364	$b^3D-y^3F^o$	3-4	2.77	13671.726	13667.989	-2	7314.365 ^A	1	3.642	4.548	-2.28 ^a	
		2-3	2.55	12810.653	12807.150	-3	7806.003 ^A	2	3.640	4.607	...	
		2-2	1.34	12248.273	12244.922	0	8164.416 ^A	0	3.640	4.652	...	
		1-2	2.46	12193.435	12190.099	-1	8201.134 ^A	1	3.635	4.652	-2.33 ^a	
1365	$b^3D-y^3D^o$ (858)	3-3	2.38	11359.064	11355.955	0	8803.542 ^A	0	3.642	4.733	...	
		2-2	1.97	10728.124	10725.186	0	9321.294 ^D	0	3.640	4.795	...	
		2-1	0.90	10374.529	10371.687	0	9638.991 ^B	0	3.640	4.835	...	
		1-1	1.71	10335.161	10332.329	0	9675.708 ^A	0	3.635	4.835	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1366	$b^3D-y^5S^\circ$ (862)	3-2	2.30	6605.0203	6603.1965	-0.4	15139.999 ^B	1	3.642	5.519	...	
1367	$b^3D-x^3D^\circ$ (863)	3-3	2.26	6309.5993	6307.8549	0.4	15848.867 ^B	-1	3.642	5.606	...	
1368	$b^3D-y^3G^\circ$	3-4	1.85	6227.9728	6226.2503	-0.4	16056.589 ^C	1	3.642	5.632	...	
1369	$b^3D-w^5P^\circ$	3-3	0.30	5964.7176	5963.0657	10.7	16765.253 ^C	-30	3.642	5.720	...	
1370	$b^3D-z^3S^\circ$	1-1	0.00	5786.7755	5785.1712	3.0	17280.781 ^B	-9	3.635	5.778	...	
1371	$b^3D-y^3P^\circ$ (867)	1-0	1.00	5762.8537	5761.2559	-0.3	17352.514 ^A	1	3.635	5.786	...	
		3-2	1.92	5761.9422	5760.3446	0.3	17355.259 ^A	-1	3.642	5.793	-2.49 ^b	
		2-2	0.60	5756.9443	5755.3481	1.0	17370.326 ^B	-3	3.640	5.793	...	
		2-1	1.59	5699.6009	5698.0200	-0.3	17545.088 ^A	1	3.640	5.815	-2.68 ^b	
		1-1	1.00	5687.6982	5686.1204	-0.3	17581.805 ^A	1	3.635	5.815	...	
1372	$b^3D-u^5D^\circ$ (866)	3-4	2.00	5764.0117	5762.4135	0.0	17349.028 ^A	0	3.642	5.792	-2.28 ^b	
		3-3	1.54	5755.9986	5754.4026	-0.3	17373.180 ^A	1	3.642	5.795	-2.70 ^b	
		2-3	0.60	5751.0041	5749.4094	-6.9	17388.268 ^B	21	3.640	5.795	...	
		3-2	1.11	5708.8313	5707.2479	-5.5	17516.720 ^B	17	3.642	5.813	-3.40 ^b	
		2-2	1.41	5703.9300	5702.3479	0.0	17531.772 ^A	0	3.640	5.813	-2.87 ^b	
1373	$b^3D-x^3F^\circ$ (868)	3-4	1.94	5708.6329	5707.0495	0.0	17517.329 ^A	0	3.642	5.813	-2.40 ^b	
		3-3	1.43	5643.0571	5641.4913	2.5	17720.891 ^A	-8	3.642	5.839	...	
		2-3	2.04	5638.2607	5636.6962	0.3	17735.966 ^A	-1	3.640	5.839	-2.61 ^b	
		2-2	1.71	5605.3017	5603.7459	3.5	17840.253 ^B	-11	3.640	5.851	...	
		1-2	1.43	5593.7872	5592.2346	1.9	17876.976 ^C	-6	3.635	5.851	...	
1374	$b^3D-z^3H^\circ$	3-4	1.97	5638.6727	5637.1081	0.3	17734.670 ^A	-1	3.642	5.840	...	
1375	$b^3D-w^3D^\circ$ (869)	3-3	1.04	5667.2061	5665.6338	-1.6	17645.379 ^B	5	3.642	5.829	...	
		2-3	1.61	5662.3721	5660.8011	0.0	17660.443 ^A	0	3.640	5.829	...	
		3-2	1.04	5629.2788	5627.7166	1.6	17764.265 ^B	-5	3.642	5.844	...	
		2-2	1.38	5624.5070	5622.9461	0.6	17779.336 ^B	-2	3.640	5.844	...	
		1-2	1.73	5612.9177	5611.3599	3.5	17816.046 ^B	-11	3.635	5.844	...	
1376	$b^3D-w^5G^\circ$ (870)	3-4	1.85	5489.0065	5487.4819	0.3	18218.233 ^C	-1	3.642	5.900	...	
		2-3	2.25	5453.6035	5452.0882	-1.8	18336.500 ^B	6	3.640	5.913	-2.86 ^b	
		1-2	2.24	5402.1574	5400.6559	0.9	18511.123 ^B	-3	3.635	5.930	...	
1377	$b^3D-Psp3^1D^\circ$ (871)	3-2	2.18	5540.8185	5539.2800	-0.3	18047.875 ^B	1	3.642	5.879	-2.66 ^b	
		2-2	2.04	5536.2007	5534.6634	4.0	18062.929 ^B	-13	3.640	5.879	...	
1378	$b^3D-z^1G^\circ$ (872)	3-4	2.31	5530.6960	5529.1602	-0.9	18080.907 ^B	3	3.642	5.883	-2.73 ^b	
1379	$b^3D-v^5F^\circ$ (875)	3-4	1.90	5388.4574	5386.9596	-0.9	18558.187 ^D	3	3.642	5.942	...	
		3-2	2.56	5300.2502	5298.7758	-0.3	18867.034 ^A	1	3.642	5.981	-2.02 ^a	
		2-2	1.95	5296.0214	5294.5482	0.8	18882.099 ^B	-3	3.640	5.981	-2.86 ^b	
1380	$b^3D-v^5P^\circ$ (877)	3-2	2.28	5321.5156	5320.0356	-2.0	18791.639 ^C	7	3.642	5.971	-2.54 ^b	
		2-2	2.15	5317.2503	5315.7714	-3.7	18806.713 ^D	13	3.640	5.971	...	
		1-2	2.79	5306.8988	5305.4227	5.9	18843.397 ^A	-21	3.635	5.971	...	
1381	$b^3D-x^3P^\circ$ (880)	3-2	2.73	5281.8314	5280.3620	0.6	18932.827 ^A	-2	3.642	5.989	-1.82 ^a	
		1-0	2.74	5224.6397	5223.1855	2.5	19140.076 ^A	-9	3.635	6.008	-1.78 ^a	
		2-1	2.68	5219.3720	5217.9193	0.0	19159.393 ^B	0	3.640	6.015	-1.72 ^a	
		1-1	2.32	5209.3877	5207.9376	-0.8	19196.114 ^B	3	3.635	6.015	-2.45 ^b	
1382	$b^3D-y^1G^\circ$	3-4	2.85	5173.1136	5171.6731	0.8	19330.718 ^A	-3	3.642	6.038	...	
1383	$b^3D-w^3F^\circ$ (883)	3-4	3.31	5066.6048	5065.1927	0.0	19737.083 ^A	0	3.642	6.089	-1.51 ^a	
		3-3	2.22	5032.4394	5031.0363	-1.5	19871.079 ^B	6	3.642	6.105	...	
		2-3	2.92	5028.6275	5027.2255	-0.3	19886.142 ^D	1	3.640	6.105	-1.89 ^a	II
		2-2	2.26	4980.9754	4979.5861	-1.0	20076.389 ^B	4	3.640	6.129	-2.58 ^b	
		1-2	3.04	4971.8828	4970.4958	-0.2	20113.105 ^A	1	3.635	6.129	-1.74 ^a	
1384	$b^3D-v^3D^\circ$ (884)	3-3	1.65	5059.9078	5058.4975	0.8	19763.206 ^B	-3	3.642	6.092	-2.83 ^b	
		2-3	2.74	5056.0519	5054.6426	-0.3	19778.278 ^A	1	3.640	6.092	-1.92 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1385	$b^3D-Fsp^3^1F^\circ$ (887*)	2-3	3.18	4970.0843	4968.6979	-0.5	20120.383 ^A	2	3.640	6.134	-1.78 ^b	
1386	$b^3D-w^3P^\circ$ (888)	1-0	2.77	4847.0020	4845.6482	1.4	20631.310 ^A	-6	3.635	6.193	...	
		2-1	2.87	4834.0780	4832.7276	0.0	20686.468 ^A	0	3.640	6.204	-1.73 ^a	
		1-1	2.63	4825.5140	4824.1659	0.9	20723.181 ^B	-4	3.635	6.204	...	
		3-2	3.20	4804.2222	4802.8797	-0.7	20815.024 ^A	3	3.642	6.222	-1.51 ^a	
		2-2	2.58	4800.7476	4799.4061	-0.2	20830.089 ^A	1	3.640	6.222	-2.23 ^b	
1387	$b^3D-z^1F^\circ$ (889)	2-3	2.89	4710.2861	4708.9685	0.0	21230.133 ^A	0	3.640	6.272	-2.03 ^a	
1388	$b^3D-x^1G^\circ$ (890)	3-4	1.81	4707.6161	4706.2992	-0.9	21242.174 ^B	4	3.642	6.275	-2.95 ^b	
1389	$b^3D-x^3H^\circ$	3-4	1.85	4537.7585	4536.4866	-0.4	22037.312 ^C	2	3.642	6.374	...	
1390	$b^3D-v^3F^\circ$ (894)	2-2	1.90	4577.8000	4576.5175	-2.1	21844.554 ^C	10	3.640	6.348	...	
		1-2	2.44	4570.1197	4568.8392	-0.8	21881.265 ^B	4	3.635	6.348	...	
		3-4	2.32	4559.3830	4558.1054	-0.4	21932.792 ^B	2	3.642	6.361	...	
		2-3	2.47	4543.6856	4542.4121	0.2	22008.565 ^B	-1	3.640	6.368	-2.05 ^b	
1391	$b^3D-u^3G^\circ$ (898)	3-4	2.04	4485.0350	4483.7770	0.4	22296.370 ^C	-2	3.642	6.406	-2.47 ^b	
1392	$b^3D-y^1D^\circ$ (900)	2-2	2.89	4473.9665	4472.7113	6.0	22351.531 ^B	-30	3.640	6.411	...	
1393	$b^3D-x^1D^\circ$ (902)	2-2	3.16	4463.2221	4461.9698	-1.6	22405.338 ^D	8	3.640	6.417	...	I
		1-2	2.32	4455.9215	4454.6712	0.2	22442.047 ^B	-1	3.635	6.417	...	
1394	$b^3D-u^3D^\circ$ (903)	3-3	2.08	4425.3106	4424.0683	0.8	22597.284 ^D	-4	3.642	6.443	...	
		3-2	2.22	4362.0289	4360.8032	-1.1	22925.112 ^B	6	3.642	6.484	-1.87 ^b	
1395	$b^3D-t^3D^\circ$ (904)	3-3	2.69	4378.0040	4376.7742	-7.9	22841.459 ^D	41	3.642	6.473	...	I
		2-2	2.51	4287.0284	4285.8225	-1.3	23326.181 ^C	7	3.640	6.532	-1.78 ^b	
		2-1	2.28	4255.1278	4253.9303	0.0	23501.057 ^C	0	3.640	6.553	...	
1396	$b^3D-^4F5p^3G^\circ$	3-4	2.15	4057.4906	4056.3449	-1.5	24645.775 ^C	9	3.642	6.697	...	
1397	$b^3D-v^3P^\circ$ (906)	3-2	3.10	4247.2804	4246.0850	0.4	23544.478 ^A	-2	3.642	6.561	-1.10 ^a	
		2-2	2.78	4244.5632	4243.3685	-0.4	23559.550 ^B	2	3.640	6.561	...	
		1-1	1.85	4182.3652	4181.1868	-0.7	23909.916 ^D	4	3.635	6.599	...	
1398	$b^3D-Gsp^3^3F^\circ$	3-4	2.71	4240.5550	4239.3613	-0.7	23581.819 ^B	4	3.642	6.565	-1.52 ^b	
		2-3	2.30	4166.5323	4165.3580	-1.0	24000.774 ^C	6	3.640	6.615	...	
		1-2	2.73	4093.4321	4092.2770	-0.3	24429.378 ^B	2	3.635	6.664	...	
1399	$b^3D-^4F5p^5D^\circ$	3-4	2.00	4125.6508	4124.4873	-0.5	24238.600 ^D	3	3.642	6.647	-2.24 ^b	
		2-3	2.49	4093.6612	4092.5060	-1.3	24428.011 ^B	8	3.640	6.668	...	
1400	$b^3D-Dsp^3^5F^\circ$	1-2	2.00	4097.8466	4096.6903	-1.8	24403.061 ^C	11	3.635	6.661	...	
1401	$b^3D-x^1F^\circ$ (911)	2-3	2.88	4097.2633	4096.1072	-0.3	24406.535 ^B	2	3.640	6.666	...	
1402	$b^3D-x^3S^\circ$	2-1	2.75	4089.7109	4088.5568	0.7	24451.606 ^B	-4	3.640	6.671	-1.53 ^b	
		1-1	2.54	4083.5771	4082.4246	-1.2	24488.334 ^B	7	3.635	6.671	-1.55 ^b	
1403	$b^3D-Dsp^3^5D^\circ$	3-4	2.08	4011.3100	4010.1763	2.3	24929.512 ^C	-14	3.642	6.732	...	
1404	$b^3D-t^3G^\circ$ (913)	3-4	2.56	4021.6199	4020.4836	-0.2	24865.602 ^D	1	3.642	6.724	-1.77 ^b	
		2-3	3.00	3961.3998	3960.2792	0.2	25243.602 ^B	-1	3.640	6.769	-1.17 ^a	
1405	$b^3D-s^3G^\circ$ (918)	2-3	3.13	3783.0140	3781.9399	0.1	26433.949 ^B	-1	3.640	6.917	-1.26 ^b	
1406	$b^3D-w^1D^\circ$ (916)	2-2	3.20	3788.2388	3787.1633	-0.6	26397.491 ^B	4	3.640	6.912	-0.96 ^b	
1407	$b^3D-Gsp^3^1F^\circ$	2-3	2.74	3739.5633	3738.5004	0.0	26741.090 ^D	0	3.640	6.955	...	II
1408	$b^3D-t^3F^\circ$	2-3	3.06	3535.5359	3534.5257	-0.1	28284.255 ^D	1	3.640	7.146	...	I
1409	$b^3D-s^4D5p^5P^\circ$	1-2	3.14	3357.3660	3356.4015	1.5	29785.254 ^D	-13	3.635	7.328	...	I
1410	$b^1G-y^3F^\circ$	4-4	1.20	14519.602	14515.634	-4	6887.241 ^A	2	3.694	4.548	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1411	$b^1G-x^5D^o$	4-4	1.48	10176.192	10173.404	9	9826.858 ^A	-9	3.694	4.913	...	
1412	$b^1G-u^5D^o$	4-4	1.20	5909.5005	5907.8634	0.3	16921.904 ^A	-1	3.694	5.792	...	
1413	$b^1G-x^3F^o$ (922)	4-4	1.28	5851.3056	5849.6840	0.7	17090.203 ^A	-2	3.694	5.813	-2.99 ^b	
1414	$b^1G-z^3H^o$	4-5	1.28	5810.7660	5809.1553	-0.3	17209.435 ^A	1	3.694	5.828	...	
		4-4	0.85	5777.8263	5776.2244	0.0	17307.547 ^A	0	3.694	5.840	...	
1415	$b^1G-w^5G^o$ (923)	4-5	0.30	5674.9512	5673.3768	-2.3	17621.297 ^B	7	3.694	5.879	...	
		4-4	0.78	5620.7848	5619.2249	0.3	17791.110 ^B	-1	3.694	5.900	-3.27 ^b	
1416	$b^1G-z^1G^o$ (924)	4-4	2.54	5664.5096	5662.9380	0.0	17653.779 ^A	0	3.694	5.883	-1.97 ^a	
1417	$b^1G-x^3G^o$ (926)	4-4	2.04	5551.4940	5549.9527	3.4	18013.169 ^C	-11	3.694	5.928	-2.91 ^b	
1418	$b^1G-y^5H^o$	4-5	2.28	5425.2460	5423.7383	-0.3	18432.344 ^C	1	3.694	5.980	...	
		4-4	2.00	5387.0728	5385.5753	-3.8	18562.957 ^C	13	3.694	5.996	-2.97 ^b	
1419	$b^1G-z^1H^o$ (928)	4-5	3.27	5381.0699	5379.5740	0.0	18583.665 ^A	0	3.694	5.998	-1.51 ^a	
1420	$b^1G-y^1G^o$ (929)	4-4	3.34	5289.9963	5288.5247	-2.2	18903.605 ^A	8	3.694	6.038	-1.51 ^a	
1421	$b^1G-w^3F^o$ (930)	4-4	2.55	5178.6760	5177.2340	1.1	19309.955 ^B	-4	3.694	6.089	-2.42 ^b	
1422	$b^1G-v^3G^o$ (932)	4-5	1.88	5085.9629	5084.5457	1.0	19661.960 ^C	-4	3.694	6.132	...	
1423	$b^1G-Fsp3^1F^o$	4-3	2.62	5081.7679	5080.3518	-0.3	19678.191 ^A	1	3.694	6.134	...	
1424	$b^1G-z^1F^o$ (933)	4-3	2.11	4810.4822	4809.1380	0.9	20787.937 ^B	-4	3.694	6.272	...	
1425	$b^1G-x^1G^o$ (934)	4-4	3.20	4804.2222	4802.8797	5.1	20815.024 ^A	-22	3.694	6.275	...	
1426	$b^1G-Gsp3^3F^o$	4-3	2.35	4244.7358	4243.5411	-2.7	23558.592 ^C	15	3.694	6.615	...	
1427	$b^1G-^4F5p^5F^o$	4-3	2.68	4190.7372	4189.5566	-1.8	23862.150 ^B	10	3.694	6.653	-1.33 ^b	
1428	$b^1G-y^1H^o$	4-5	1.95	4252.6946	4251.4977	-0.5	23514.503 ^D	3	3.694	6.610	...	II
1429	$b^1G-^4F5p^5D^o$	4-3	2.81	4169.1301	4167.9552	-1.4	23985.819 ^B	8	3.694	6.668	...	
1430	$b^1G-x^1F^o$ (941)	4-3	2.97	4172.8667	4171.6908	0.2	23964.341 ^A	-1	3.694	6.666	-1.44 ^a	
1431	$b^1G-t^3G^o$ (943)	4-3	2.68	4032.0295	4030.8904	0.8	24801.406 ^B	-5	3.694	6.769	-1.07 ^a	
1432	$b^1G-w^1G^o$ (945)	4-4	3.35	3998.0940	3996.9639	-0.2	25011.918 ^A	1	3.694	6.795	-0.77 ^a	
1433	$b^1G-s^3G^o$ (948)	4-3	2.70	3847.3744	3846.2835	0.7	25991.752 ^C	-5	3.694	6.917	...	
1434	$b^1G-v^3H^o$	4-5	2.68	3887.0217	3885.9205	-2.1	25726.638 ^C	14	3.694	6.884	...	
1435	$z^3F^o-c^3F$	4-3	3.16	47495.175	47482.228	-135	2105.477 ^A	6	3.881	4.143	...	
1436	$z^3F^o-b^1D$	2-2	2.61	39955.250	39944.356	16	2502.800 ^A	-1	3.984	4.294	...	
1437	$z^3F^o-d^3F$	2-2	2.12	20804.731	20799.053	-4	4806.599 ^A	1	3.984	4.580	...	
		2-3	1.26	20654.341	20648.705	0	4841.597 ^B	0	3.984	4.584	...	
		3-2	1.23	19472.228	19466.913	0	5135.519 ^A	0	3.943	4.580	...	
		3-3	2.15	19340.433	19335.154	7	5170.515 ^A	-2	3.943	4.584	...	
		4-3	1.04	17641.849	17637.032	9	5668.340 ^A	-3	3.881	4.584	...	
		4-4	2.22	17425.594	17420.836	9	5738.685 ^A	-3	3.881	4.593	...	
1438	$z^3F^o-d^8^3P$	2-2	1.82	11445.023	11441.890	-4	8737.422 ^A	3	3.984	5.067	...	
		2-1	1.78	11056.543	11053.516	2	9044.418 ^A	-2	3.984	5.105	...	
		3-2	2.37	11029.810	11026.790	1	9066.339 ^A	-1	3.943	5.067	...	
1439	$z^3F^o-e^5D$	3-3	1.23	7543.6081	7541.5316	0.6	13256.256 ^B	-1	3.943	5.587	-3.12 ^b	
		4-4	1.46	7479.5675	7477.5083	1.7	13369.757 ^B	-3	3.881	5.539	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1440	$z^3F^o - e^5F$	3-4	3.09	6421.4198	6419.6454	1.2	15572.880 ^A	-3	3.943	5.874	...	
		2-3	2.18	6401.4183	6399.6493	2.5	15621.538 ^C	-6	3.984	5.921	...	
		4-5	1.85	6370.1396	6368.3790	6.9	15698.243 ^D	-17	3.881	5.828	...	
		4-4	1.79	6222.5047	6220.7837	3.5	16070.699 ^C	-9	3.881	5.874	-2.46 ^b	
1441	$z^3F^o - e^3F$	3-4	2.28	6189.7026	6187.9904	1.1	16155.865 ^A	-3	3.943	5.946	-1.72 ^b	
		2-3	2.15	6098.3530	6096.6653	0.7	16397.870 ^A	-2	3.984	6.017	-1.93 ^b	
		4-4	2.99	6004.6749	6003.0123	0.7	16653.691 ^A	-2	3.881	5.946	-1.12 ^b	
		3-3	2.69	5978.4327	5976.7771	0.4	16726.792 ^A	-1	3.943	6.017	...	
		2-2	2.54	5954.3675	5952.7184	0.0	16794.395 ^A	0	3.984	6.066	-1.44 ^b	
		3-2	1.64	5839.9903	5838.3718	0.0	17123.316 ^A	0	3.943	6.066	-2.34 ^b	
		4-3	1.95	5805.6443	5804.0350	0.7	17224.617 ^A	-2	3.881	6.017	-2.29 ^b	
1442	$z^3F^o - e^3D$	3-3	2.62	5131.0601	5129.6308	-0.8	19489.150 ^A	3	3.943	6.359	-1.85 ^b	
		2-2	2.89	5100.4984	5099.0773	0.0	19605.927 ^A	0	3.984	6.415	-1.26 ^a	
		2-1	3.85	5023.6362	5022.2355	0.0	19905.900 ^A	0	3.984	6.452	-0.53 ^b	
		3-2	4.11	5016.3412	5014.9425	0.0	19934.848 ^A	0	3.943	6.415	-0.30 ^a	
		4-3	4.32	5003.2589	5001.8636	0.3	19986.973 ^A	-1	3.881	6.359	0.01 ^b	
1443	$z^3F^o - g^5D$	2-2	2.09	5021.1307	5019.7307	-0.5	19915.833 ^B	2	3.984	6.453	...	
		2-1	3.32	4979.9924	4978.6033	0.2	20080.352 ^A	-1	3.984	6.474	-0.93 ^b	
		3-2	3.30	4939.5522	4938.1739	0.0	20244.750 ^A	0	3.943	6.453	...	
		4-3	3.30	4886.7950	4885.4306	0.2	20463.310 ^A	-1	3.881	6.419	...	
1444	$z^3F^o - e^5P$	2-3	2.66	5075.3113	5073.8968	5.2	19703.225 ^D	-20	3.984	6.427	...	II
		2-1	2.30	5028.7446	5027.3425	-0.8	19885.679 ^B	3	3.984	6.449	...	
		3-2	2.65	4935.2503	4933.8730	0.0	20262.397 ^A	0	3.943	6.455	...	
1445	$z^3F^o - g^5F$	2-3	3.43	4608.9376	4607.6469	1.5	21696.974 ^D	-7	3.984	6.674	...	I
		3-3	2.25	4540.1092	4538.8366	-0.2	22025.902 ^B	1	3.943	6.674	...	
		4-4	2.81	4527.6682	4526.3989	0.2	22086.424 ^A	-1	3.881	6.620	...	
		2-1	2.03	4493.9387	4492.6783	-0.4	22252.195 ^B	2	3.984	6.743	-1.65 ^b	
		3-2	2.34	4453.8593	4452.6095	-0.8	22452.438 ^D	4	3.943	6.727	-1.93 ^b	Ne
1446	$z^3F^o - h^5D$	3-3	1.70	4599.6552	4598.3669	0.0	21740.760 ^C	0	3.943	6.639	...	
1447	$z^3F^o - f^5P$	3-2	2.08	4594.8122	4593.5252	0.4	21763.675 ^D	-2	3.943	6.641	-2.06 ^b	II
		2-1	1.95	4589.0059	4587.7204	-1.1	21791.212 ^C	5	3.984	6.686	-2.15 ^b	
1448	$z^3F^o - f^5G$	3-4	2.31	4552.9230	4551.6470	-1.2	21963.912 ^B	6	3.943	6.666	-2.06 ^b	
		4-5	2.92	4550.7423	4549.4669	0.8	21974.437 ^A	-4	3.881	6.606	...	
		4-4	1.85	4452.0162	4450.7669	-0.2	22461.733 ^D	1	3.881	6.666	-2.24 ^b	
1449	$z^3F^o - e^3G$	2-3	2.28	4495.3162	4494.0555	2.8	22245.376 ^B	-14	3.984	6.742	-1.81 ^b	
		3-4	2.22	4492.0706	4490.8107	-0.8	22261.449 ^B	4	3.943	6.703	...	
		4-5	2.34	4457.8811	4456.6302	1.6	22432.182 ^B	-8	3.881	6.663	-1.68 ^b	
		3-3	2.04	4429.8105	4428.5670	-3.5	22574.329 ^D	18	3.943	6.742	...	
		4-4	2.22	4393.8137	4392.5797	-0.4	22759.272 ^C	2	3.881	6.703	-2.00 ^b	
1450	$z^3F^o - f^3D$	3-2	2.90	4492.0199	4490.7601	-0.2	22261.700 ^A	1	3.943	6.703	...	
		2-1	2.65	4481.2199	4479.9629	0.4	22315.352 ^B	-2	3.984	6.751	-1.52 ^b	
		4-3	2.87	4456.2777	4455.0273	-0.2	22440.253 ^A	1	3.881	6.664	-1.09 ^b	
1451	$z^3F^o - e^3H$	4-4	2.06	4301.4162	4300.2066	2.4	23248.157 ^D	-13	3.881	6.764	-1.81 ^b	
1452	$z^3F^o - f^3F$	3-3	2.77	4288.1899	4286.9837	0.2	23319.863 ^B	-1	3.943	6.834	...	
		4-4	2.68	4277.8796	4276.6761	1.3	23376.067 ^B	-7	3.881	6.780	-1.21 ^b	
1453	$z^3F^o - s^6D5d^5D$	4-4	2.34	4016.0130	4014.8781	-2.3	24900.318 ^D	14	3.881	6.969	...	II
1454	$z^3F^o - s^6D5d^5G$	4-4	2.75	3942.2991	3941.1835	-1.9	25365.909 ^D	12	3.881	7.026	...	
1455	$z^3F^o - g^5G$	3-4	2.61	3743.2044	3742.1405	1.5	26715.079 ^C	-11	3.943	7.255	...	
		4-5	2.96	3708.6165	3707.5616	-2.5	26964.233 ^B	18	3.881	7.224	...	
1456	$z^3F^o - s^4D4d^3G$	3-4	3.16	3681.8576	3680.8096	-0.3	27160.203 ^B	2	3.943	7.311	...	
		4-5	3.22	3678.5009	3677.4538	0.1	27184.987 ^B	-1	3.881	7.252	...	
		4-4	3.28	3615.5865	3614.5557	-0.3	27658.030 ^B	2	3.881	7.311	...	
1457	$z^3F^o - ^4F5d^3G$	4-5	3.58	3635.7330	3634.6970	-0.4	27504.770 ^A	3	3.881	7.292	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1458	$z^3D^o-c^3F$	2-2	2.76	48101.089	48087.976	0	2078.955 ^A	0	3.928	4.186	...	
1459	$z^3D^o-b^1D$	1-2	2.29	37044.391	37034.290	41	2699.464 ^A	-3	3.960	4.294	...	
1460	$z^3D^o-d^3F$	1-2	1.53	19986.948	19981.493	0	5003.265 ^A	0	3.960	4.580	...	
		2-3	1.60	18906.322	18901.161	4	5289.236 ^A	-1	3.928	4.584	...	
		3-3	0.60	17689.784	17684.955	-19	5652.980 ^D	6	3.883	4.584	...	II
		3-4	1.76	17472.385	17467.614	12	5723.317 ^A	-4	3.883	4.593	...	
1461	$z^3D^o-d^8^3P$	1-2	1.83	11193.085	11190.021	-1	8934.087 ^A	1	3.960	5.067	...	
		2-2	2.90	10887.246	10884.265	1	9185.059 ^A	-1	3.928	5.067	...	
		1-1	2.78	10821.240	10818.276	2	9241.085 ^A	-2	3.960	5.105	...	
		1-0	2.84	10755.953	10753.007	2	9297.177 ^A	-2	3.960	5.112	...	
		2-1	3.48	10535.122	10532.236	1	9492.059 ^A	-1	3.928	5.105	...	
		3-2	3.83	10472.523	10469.654	1	9548.797 ^A	-1	3.883	5.067	...	
1462	$z^3D^o-e^5D$	3-4	1.23	7488.1721	7486.1105	-1.1	13354.394 ^B	2	3.883	5.539	...	
1463	$z^3D^o-e^5F$	3-4	1.81	6228.4589	6226.7363	1.9	16055.336 ^C	-5	3.883	5.874	-2.22 ^b	
		3-3	0.60	6085.3476	6083.6634	3.0	16432.915 ^B	-8	3.883	5.921	...	
1464	$z^3D^o-e^3F$	3-4	3.06	6010.2207	6008.5566	0.4	16638.324 ^A	-1	3.883	5.946	...	
		2-3	2.87	5936.2992	5934.6549	0.4	16845.512 ^A	-1	3.928	6.017	-1.17 ^b	
		1-2	2.72	5885.4476	5883.8170	0.3	16991.061 ^A	-1	3.960	6.066	-1.36 ^b	
		3-3	2.34	5810.8288	5809.2181	0.3	17209.249 ^A	-1	3.883	6.017	-1.84 ^b	
		2-2	2.23	5799.7791	5798.1714	0.0	17242.036 ^A	0	3.928	6.066	-1.89 ^b	
		3-2	1.11	5679.9544	5678.3788	-0.3	17605.775 ^A	1	3.883	6.066	-3.02 ^b	
1465	$z^3D^o-e^3D$	2-3	3.36	5099.9933	5098.5723	-0.3	19607.869 ^A	1	3.928	6.359	...	
		1-2	3.26	5049.8437	5048.4361	0.0	19802.593 ^D	0	3.960	6.415	-1.03 ^a	II
		3-3	4.20	5007.1086	5005.7123	-0.3	19971.606 ^A	1	3.883	6.359	...	
		2-2	3.86	4986.6438	4985.2529	0.0	20053.568 ^A	0	3.928	6.415	-0.56 ^a	
		1-1	3.51	4974.4896	4973.1019	0.0	20102.565 ^A	0	3.960	6.452	-0.95 ^b	
		2-1	2.61	4913.1507	4911.7794	0.2	20353.538 ^A	-1	3.928	6.452	-1.79 ^b	
		3-2	2.44	4897.8058	4896.4385	-0.2	20417.306 ^B	1	3.883	6.415	-2.05 ^b	
1466	$z^3D^o-g^5D$	2-3	2.27	4979.0375	4977.6487	0.5	20084.203 ^B	-2	3.928	6.419	...	
		1-2	2.41	4972.0331	4970.6461	-0.2	20112.497 ^B	1	3.960	6.453	...	
		1-1	3.02	4931.6916	4930.3154	0.2	20277.018 ^A	-1	3.960	6.474	-1.35 ^b	
		2-2	3.04	4910.7542	4909.3835	0.0	20363.471 ^A	0	3.928	6.453	...	
		3-3	3.07	4890.4675	4889.1021	0.0	20447.943 ^A	0	3.883	6.419	...	
		2-1	1.99	4871.3971	4870.0368	0.2	20527.992 ^C	-1	3.928	6.474	-2.34 ^b	
1467	$z^3D^o-e^5P$	1-1	2.00	4979.5009	4978.1119	2.2	20082.334 ^C	-9	3.960	6.449	...	
		1-2	1.60	4967.6753	4966.2895	0.5	20130.140 ^D	-2	3.960	6.455	...	
		2-2	2.39	4906.5024	4905.1328	0.0	20381.117 ^B	0	3.928	6.455	-2.05 ^b	
		3-3	2.08	4874.5717	4873.2106	0.0	20514.623 ^D	0	3.883	6.427	...	
1468	$z^3D^o-g^5F$	3-4	2.83	4530.8212	4529.5511	0.6	22071.054 ^A	-3	3.883	6.620	...	
		2-3	2.41	4515.7661	4514.4999	-3.3	22144.637 ^D	16	3.928	6.674	...	
		3-3	1.85	4442.7925	4441.5456	-1.2	22508.366 ^D	6	3.883	6.674	...	
		2-2	2.29	4430.4305	4429.1869	-4.1	22571.170 ^C	21	3.928	6.727	...	
1469	$z^3D^o-h^5D$	3-3	1.79	4499.7951	4498.5332	-3.0	22223.234 ^C	15	3.883	6.639	...	
		3-2	2.18	4416.1707	4414.9309	-1.2	22644.052 ^C	6	3.883	6.691	...	
1470	$z^3D^o-f^5P$	2-2	1.60	4569.8831	4568.6026	-0.2	21882.398 ^C	1	3.928	6.641	-2.42 ^b	
1471	$z^3D^o-f^3D$	2-2	2.71	4468.1922	4466.9386	0.8	22380.416 ^B	-4	3.928	6.703	-1.35 ^b	
		3-3	2.92	4459.3315	4458.0802	-0.4	22424.886 ^A	2	3.883	6.664	...	
		1-1	2.01	4442.0706	4440.8239	-0.8	22512.024 ^B	4	3.960	6.751	-1.60 ^b	
		3-2	2.32	4396.7321	4395.4973	-1.5	22744.165 ^C	8	3.883	6.703	...	
		2-1	2.56	4393.0971	4391.8633	1.9	22762.984 ^D	-10	3.928	6.751	-2.04 ^b	
1472	$z^3D^o-f^3F$	3-4	2.60	4280.6929	4279.4887	0.5	23360.704 ^C	-3	3.883	6.780	-1.46 ^b	
		2-3	2.64	4266.4686	4265.2681	-0.7	23438.588 ^B	4	3.928	6.834	...	
1473	$z^3D^o-e^3P$	2-2	2.51	4311.5865	4310.3741	1.9	23193.319 ^C	-10	3.928	6.804	-1.50 ^b	
		1-1	2.23	4266.4366	4265.2361	-0.4	23438.764 ^C	2	3.960	6.866	...	
		3-2	2.59	4245.0110	4243.8162	0.5	23557.065 ^B	-3	3.883	6.804	-1.50 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1474	$z^3D^o-^4F6s^5F$	2-1	2.24	4221.2381	4220.0495	0.7	23689.732 ^C	-4	3.928	6.866	-1.66 ^b	
1475	$z^3D^o-s^6D5d^5G$	3-3	2.77	3818.5342	3817.4508	-1.3	26188.059 ^D	9	3.883	7.130	...	
1476	$z^3D^o-i^5D$	3-4	2.71	3944.6916	3943.5754	0.8	25350.524 ^C	-5	3.883	7.026	...	
1477	$z^3D^o-s^4D4d^5P$	3-4	2.56	3791.4886	3790.4122	1.9	26374.865 ^C	-13	3.883	7.153	...	
1478	$z^3D^o-s^4D4d^3G$	3-3	2.68	3681.9872	3680.9392	-0.9	27159.247 ^C	7	3.883	7.251	...	
1478	$z^3D^o-s^4D4d^3G$	3-4	3.24	3617.5966	3616.5652	-0.3	27642.662 ^B	2	3.883	7.311	...	
1479	$z^3D^o-s^4D4d^3D$	2-2	3.01	3663.8808	3662.8375	0.8	27293.464 ^B	-6	3.928	7.312	...	
1479	$z^3D^o-s^4D4d^3D$	3-3	2.71	3655.0076	3653.9666	-2.3	27359.724 ^C	17	3.883	7.275	...	
1480	$z^3D^o-58831^e$	3-3	3.18	3635.2240	3634.1881	-0.8	27508.621 ^B	6	3.883	7.294	...	
1481	$z^3D^o-s^4D4d^3S$	1-1	2.88	3674.1282	3673.0822	-0.8	27217.341 ^B	6	3.960	7.334	...	
1482	$z^3D^o-s^4D4d^3F$	1-2	2.68	3587.0277	3586.0042	-0.6	27878.235 ^C	5	3.960	7.416	...	
1483	$c^3F-z^3G^o$	2-3	3.25	43213.997	43202.216	19	2314.065 ^A	-1	4.186	4.473	...	
		3-4	2.58	42465.603	42454.026	-18	2354.847 ^A	1	4.143	4.434	...	
		4-5	3.20	39910.982	39900.101	-16	2505.576 ^A	1	4.076	4.386	...	
		4-4	2.08	34555.074	34545.652	12	2893.931 ^A	-1	4.076	4.434	...	
1484	$c^3F-y^3F^o$	3-4	2.75	30548.734	30540.404	0	3273.458 ^A	0	4.143	4.548	...	
		2-3	2.76	29433.935	29425.908	0	3397.439 ^A	0	4.186	4.607	...	
		3-3	3.63	26666.460	26659.187	0	3750.029 ^A	0	4.143	4.607	-0.80 ^a	
		2-2	3.80	26625.110	26617.848	0	3755.853 ^A	0	4.186	4.652	-0.69 ^a	
		4-4	4.24	26229.205	26222.051	-7	3812.544 ^A	1	4.076	4.548	-0.55 ^a	
		3-2	2.50	24340.121	24333.481	0	4108.443 ^A	0	4.143	4.652	...	
		4-3	2.21	23314.833	23308.472	-5	4289.115 ^A	1	4.076	4.607	...	
1485	$c^3F-y^3D^o$	3-3	1.62	20996.775	20991.046	4	4762.636 ^A	-1	4.143	4.733	...	
		2-2	1.92	20355.276	20349.721	0	4912.731 ^A	0	4.186	4.795	...	
		2-1	3.24	19118.897	19113.679	7	5230.427 ^A	-2	4.186	4.835	-1.24 ^a	
		3-2	3.53	18992.194	18987.010	0	5265.321 ^A	0	4.143	4.795	-1.10 ^a	
		4-3	3.79	18861.796	18856.647	0	5301.722 ^A	0	4.076	4.733	-0.90 ^a	
1486	$c^3F-x^5D^o$	4-4	1.32	14810.055	14806.009	2	6752.169 ^A	-1	4.076	4.913	...	
1487	$c^3F-x^5F^o$	4-5	0.78	13543.395	13539.692	13	7383.673 ^A	-7	4.076	4.991	...	
1488	$c^3F-x^5P^o$	2-3	2.20	11405.840	11402.718	-5	8767.438 ^A	4	4.186	5.273	...	
1489	$c^3F-x^3D^o$	2-1	2.05	8484.3124	8481.9818	0.0	11786.459 ^A	0	4.186	5.648	...	
		3-3	1.73	8468.8576	8466.5313	-3.6	11807.968 ^C	5	4.143	5.606	...	
		3-2	2.25	8425.2287	8422.9141	0.0	11869.114 ^A	0	4.143	5.614	...	
		4-3	2.31	8099.1019	8096.8755	0.0	12347.048 ^A	0	4.076	5.606	...	
1490	$c^3F-x^5G^o$	3-4	0.85	8051.2063	8048.9928	3.9	12420.499 ^B	-6	4.143	5.682	...	
		3-3	1.00	7999.5021	7997.3026	0.0	12500.778 ^B	0	4.143	5.692	...	
1491	$c^3F-z^3S^o$	2-1	0.90	7790.8882	7788.7450	1.8	12835.507 ^B	-3	4.186	5.778	...	
1492	$c^3F-y^3P^o$	2-1	1.49	7612.3632	7610.2682	-0.6	13136.525 ^A	1	4.186	5.815	...	
		3-2	0.70	7510.6855	7508.6178	-5.1	13314.364 ^C	9	4.143	5.793	...	
1493	$c^3F-u^5D^o$ (1001)	2-2	1.68	7620.0869	7617.9897	0.0	13123.210 ^A	0	4.186	5.813	...	
		3-4	1.20	7514.2071	7512.1385	0.0	13308.124 ^B	0	4.143	5.792	...	
		3-3	1.96	7500.5954	7498.5304	-0.6	13332.275 ^A	1	4.143	5.795	-2.25 ^b	
		2-1	1.80	7456.0507	7453.9978	0.6	13411.926 ^B	-1	4.186	5.849	-2.41 ^b	
		3-2	2.72	7420.7108	7418.6674	0.0	13475.798 ^A	0	4.143	5.813	-1.38 ^a	
		4-4	1.70	7221.6750	7219.6853	2.6	13847.203 ^B	-5	4.076	5.792	-1.69 ^b	
		4-3	1.95	7209.0979	7207.1116	-0.5	13871.361 ^A	1	4.076	5.795	-1.27 ^a	
1494	$c^3F-x^3F^o$ (1002)	2-3	1.28	7503.3424	7501.2767	6.2	13327.394 ^B	-11	4.186	5.839	-2.89 ^b	
		2-2	2.61	7445.0723	7443.0224	0.0	13431.703 ^A	0	4.186	5.851	-1.82 ^b	
		3-3	1.85	7309.9453	7307.9318	0.5	13679.993 ^A	-1	4.143	5.839	-1.53 ^a	
		4-4	1.60	7134.9526	7132.9863	-1.0	14015.510 ^A	2	4.076	5.813	-1.63 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1495	$c^3F-w^3D^\circ$ (1004)	2-1	2.52	7403.7236	7401.6849	1.6	13506.717 ^A	-3	4.186	5.861	-1.35 ^a	II
		3-2	1.48	7286.8425	7284.8353	0.5	13723.365 ^B	-1	4.143	5.844	...	
		4-3	1.90	7070.3587	7068.4097	0.0	14143.554 ^D	0	4.076	5.829	-1.38 ^b	
1496	$c^3F-w^5G^\circ$ (1005)	2-2	1.48	7109.4205	7107.4610	1.0	14065.844 ^D	-2	4.186	5.930	-1.34 ^a	
		4-4	3.31	6795.1341	6793.2592	0.9	14716.413 ^A	-2	4.076	5.900	-2.47 ^b	
		4-3	3.18	6747.8186	6745.9565	0.5	14819.604 ^A	-1	4.076	5.913	-2.77 ^b	
1497	$c^3F-z^1G^\circ$ (1006)	4-4	2.59	6859.1424	6857.2503	0.9	14579.082 ^A	-2	4.076	5.883	-2.15 ^b	
1498	$c^3F-v^5F^\circ$ (1007)	3-3	2.93	6798.0009	6796.1252	0.9	14710.207 ^A	-2	4.143	5.966	-2.53 ^b	
		4-5	2.54	6787.7235	6785.8506	0.0	14732.480 ^B	0	4.076	5.902	...	
		4-4	3.18	6641.7120	6639.8784	2.2	15056.359 ^A	-5	4.076	5.942	-2.46 ^b	
		4-3	2.34	6557.6806	6555.8696	0.0	15249.294 ^B	0	4.076	5.966	...	
1499	$c^3F-x^3G^\circ$ (1008)	4-4	2.89	6694.1201	6692.2724	0.9	14938.483 ^A	-2	4.076	5.928	...	
		4-5	2.40	6684.0818	6682.2368	-0.9	14960.918 ^B	2	4.076	5.931	...	
1500	$c^3F-v^5P^\circ$ (1009)	4-3	2.34	6625.6205	6623.7912	11.0	15092.926 ^C	-25	4.076	5.947	...	
1501	$c^3F-y^5H^\circ$	2-3	2.81	6797.9232	6796.0476	1.8	14710.375 ^A	-4	4.186	6.010	...	
		3-4	3.23	6689.3386	6687.4922	0.9	14949.161 ^A	-2	4.143	5.996	...	
		3-3	2.26	6638.7974	6636.9646	-0.9	15062.969 ^B	2	4.143	6.010	...	
		4-5	3.26	6511.4154	6509.6168	0.8	15357.644 ^A	-2	4.076	5.980	-2.97 ^b	
1502	$c^3F-x^3P^\circ$ (1013)	2-2	1.70	6877.8989	6876.0017	5.2	14539.324 ^C	-11	4.186	5.989	...	
		2-1	2.85	6779.2800	6777.4094	0.5	14750.829 ^A	-1	4.186	6.015	...	
		3-2	3.19	6715.0495	6713.1962	0.9	14891.923 ^A	-2	4.143	5.989	...	
1503	$c^3F-z^1H^\circ$	4-5	2.34	6447.8819	6446.1003	0.0	15508.969 ^B	0	4.076	5.998	...	
1504	$c^3F-y^1G^\circ$ (1014)	3-4	2.97	6540.3002	6538.4939	-0.4	15289.818 ^A	1	4.143	6.038	...	
		4-4	3.70	6317.5580	6315.8115	0.0	15828.901 ^A	0	4.076	6.038	-1.71 ^b	
1505	$c^3F-w^3F^\circ$ (1015)	2-2	4.20	6382.5072	6380.7433	0.0	15667.824 ^A	0	4.186	6.129	-1.38 ^a	
		3-3	3.87	6317.0532	6315.3068	0.8	15830.166 ^A	-2	4.143	6.105	-1.23 ^a	
		3-2	1.61	6242.0367	6240.3105	0.0	16020.412 ^C	0	4.143	6.129	...	
		4-4	2.74	6159.4325	6157.7284	0.0	16235.262 ^A	0	4.076	6.089	-1.26 ^b	
		4-3	1.41	6109.0202	6107.3296	5.6	16369.237 ^D	-15	4.076	6.105	...	
1506	$c^3F-v^3D^\circ$ (1016)	2-3	2.11	6506.3062	6504.5089	5.1	15369.704 ^C	-12	4.186	6.092	...	
		2-2	1.85	6461.0711	6459.2860	1.3	15477.310 ^D	-3	4.186	6.105	...	
		2-1	3.31	6438.1862	6436.4072	1.2	15532.325 ^A	-3	4.186	6.112	-2.46 ^b	
		3-3	3.89	6360.3918	6358.6337	0.8	15722.302 ^A	-2	4.143	6.092	-1.66 ^a	
		3-2	3.18	6317.1589	6315.4125	0.4	15829.901 ^A	-1	4.143	6.105	...	
		4-3	2.32	6149.5362	6147.8347	0.4	16261.389 ^A	-1	4.076	6.092	-1.67 ^a	
1507	$c^3F-y^3H^\circ$ (1017)	3-4	2.41	6129.6027	6127.9066	0.4	16314.271 ^A	-1	4.143	6.165	-1.40 ^a	I
		4-5	2.41	5977.0016	5975.3464	-1.1	16730.797 ^D	3	4.076	6.150	...	
		4-4	0.48	5933.5342	5931.8907	-1.8	16853.362 ^B	5	4.076	6.165	...	
1508	$c^3F-v^3G^\circ$ (1018)	2-3	2.34	6216.8633	6215.1438	0.0	16085.282 ^A	0	4.186	6.180	-1.32 ^a	
		3-4	2.31	6167.0664	6165.3603	0.4	16215.165 ^A	-1	4.143	6.153	-1.47 ^a	
		3-3	0.30	6083.5118	6081.8280	-1.1	16437.874 ^B	3	4.143	6.180	...	
		4-5	2.78	6028.7200	6027.0509	-0.4	16587.269 ^A	1	4.076	6.132	-1.09 ^a	
		4-4	0.30	5968.6338	5966.9808	-1.1	16754.253 ^B	3	4.076	6.153	...	
1509	$c^3F-Fsp3^1F^\circ$ (1091*)	2-3	3.82	6364.6354	6362.8763	0.4	15711.819 ^A	-1	4.186	6.134	-1.97 ^b	
1510	$c^3F-w^3P^\circ$ (1020)	2-2	0.30	6089.5640	6087.8786	-3.7	16421.537 ^D	10	4.186	6.222	...	II
		3-2	0.85	5961.5657	5959.9146	-0.4	16774.117 ^A	1	4.143	6.222	...	
1511	$c^3F-n^7P^\circ$	4-4	1.00	5776.3064	5774.7049	2.7	17312.101 ^A	-8	4.076	6.222	...	
1512	$c^3F-z^1F^\circ$ (1021)	2-3	1.23	5944.7473	5943.1007	-1.1	16821.573 ^A	3	4.186	6.272	-2.05 ^b	
		4-3	1.71	5645.4926	5643.9262	-0.3	17713.246 ^A	1	4.076	6.272	...	
1513	$c^3F-x^1G^\circ$ (1022)	3-4	1.75	5813.5259	5811.9145	-0.3	17201.265 ^A	1	4.143	6.275	-2.43 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1514	$c^3F-x^3H^o$ (1024)	4-5	2.29	5495.9891	5494.4626	-0.9	18195.087 ^D	3	4.076	6.331	-2.09 ^b	II
1515	$c^3F-t^5D^o$ (1025)	2-3	1.53	5683.0830	5681.5065	0.3	17596.083 ^A	-1	4.186	6.368	...	
		4-4	3.21	5493.6045	5492.0786	3.0	18202.985 ^A	-10	4.076	6.332	...	
1516	$c^3F-v^3F^o$ (1026)	2-3	1.74	5681.8166	5680.2404	-0.3	17600.005 ^A	1	4.186	6.368	-2.58 ^b	
		3-2	1.85	5621.5870	5620.0269	-0.3	17788.571 ^B	1	4.143	6.348	...	
		3-4	2.42	5589.1254	5587.5740	-0.6	17891.887 ^A	2	4.143	6.361	-1.85 ^b	
1517	$c^3F-u^3G^o$ (1029)	2-3	3.10	5536.9554	5535.4179	-0.3	18060.467 ^A	1	4.186	6.425	-1.16 ^a	
		3-4	3.28	5477.8102	5476.2885	-0.6	18255.470 ^A	2	4.143	6.406	-0.94 ^a	
		4-5	3.32	5405.3239	5403.8215	-0.6	18500.279 ^A	2	4.076	6.369	-1.03 ^a	
		4-3	2.19	5276.4493	5274.9813	0.3	18952.139 ^C	-1	4.076	6.425	...	
1518	$c^3F-Hsp3^1H^o$ (1028)	4-5	3.31	5331.4717	5329.9891	-0.6	18756.547 ^A	2	4.076	6.401	-1.22 ^a	
1519	$c^3F-y^1D^o$ (1030)	3-2	2.62	5465.7980	5464.2796	-0.3	18295.590 ^A	1	4.143	6.411	-1.40 ^a	
1520	$c^3F-u^3D^o$ (1031)	2-3	2.28	5493.3573	5491.8315	-3.0	18203.804 ^B	10	4.186	6.443	-2.40 ^b	
		3-3	2.30	5388.9783	5387.4804	-2.9	18556.393 ^C	10	4.143	6.443	-2.14 ^b	
		2-1	2.63	5334.1436	5332.6602	-0.9	18747.152 ^B	3	4.186	6.510	-2.09 ^b	
		3-2	2.39	5295.4319	5293.9588	-0.3	18884.201 ^B	1	4.143	6.484	-1.87 ^b	
		4-3	3.36	5236.8441	5235.3867	-0.8	19095.470 ^A	3	4.076	6.443	-0.97 ^a	
1521	$c^3F-t^3D^o$ (1032)	2-2	2.33	5286.0792	5284.6086	-0.3	18917.613 ^B	1	4.186	6.532	-2.11 ^b	
		2-1	2.59	5237.6618	5236.2041	1.9	19092.489 ^B	-7	4.186	6.553	-1.50 ^a	
		3-2	2.96	5189.3589	5187.9142	-0.5	19270.203 ^A	2	4.143	6.532	-1.37 ^a	
		4-3	2.20	5170.7386	5169.2987	0.0	19339.597 ^C	0	4.076	6.473	...	
1522	$c^3F-w^3H^o$ (1033)	3-4	2.53	5166.3492	5164.9106	-1.1	19356.028 ^B	4	4.143	6.542	...	
		4-5	1.70	5066.0024	5064.5905	6.4	19739.430 ^D	-25	4.076	6.523	...	
1523	$c^3F-^4F5p^3G^o$	3-3	1.93	4774.4805	4773.1459	-0.2	20944.687 ^C	1	4.143	6.739	...	
		4-4	2.19	4729.4866	4728.1640	0.4	21143.944 ^C	-2	4.076	6.697	...	
1524	$c^3F-v^3P^o$	2-1	2.18	5137.5241	5136.0931	1.1	19464.629 ^C	-4	4.186	6.599	-2.12 ^b	
		3-2	2.30	5127.2628	5125.8345	-2.1	19503.584 ^C	8	4.143	6.561	...	
1525	$c^3F-Gsp3^3F^o$	2-2	1.90	5003.9764	5002.5809	-2.8	19984.107 ^D	11	4.186	6.664	...	I
		4-4	1.92	4980.0809	4978.6918	0.0	20079.995 ^C	0	4.076	6.565	...	
		4-3	1.95	4881.8905	4880.5274	2.9	20483.868 ^C	-12	4.076	6.615	...	
1526	$c^3F-^4F5p^5G^o$	3-4	1.78	4892.5103	4891.1445	-2.6	20439.405 ^C	11	4.143	6.677	...	
1527	$c^3F-^4F5p^5F^o$	2-3	2.48	5026.1950	5024.7936	1.0	19895.766 ^B	-4	4.186	6.653	...	
		3-3	1.90	4938.6769	4937.2988	5.4	20248.338 ^C	-22	4.143	6.653	...	
1528	$c^3F-y^1H^o$	4-5	2.29	4892.4141	4891.0483	-0.7	20439.807 ^D	3	4.076	6.610	...	II
1529	$c^3F-^4F5p^3F^o$	4-4	1.95	4888.7305	4887.3657	-1.7	20455.208 ^C	7	4.076	6.612	-2.28 ^b	
		2-2	2.15	4775.3070	4773.9722	3.6	20941.062 ^D	-16	4.186	6.782	...	
		3-2	2.00	4696.2329	4694.9190	0.9	21293.663 ^C	-4	4.143	6.782	...	
1530	$c^3F-^4F5p^5D^o$	2-3	2.28	4995.1445	4993.7514	0.2	20019.441 ^B	-1	4.186	6.668	...	
		2-2	1.85	4815.7170	4814.3715	1.2	20765.340 ^C	-5	4.186	6.761	...	
1531	$c^3F-Dsp3^5F^o$	4-3	2.23	4793.8724	4792.5327	-0.9	20859.963 ^C	4	4.076	6.662	...	
		4-5	2.89	4730.3421	4729.0192	-0.4	21140.120 ^A	2	4.076	6.697	-1.61 ^a	
1532	$c^3F-x^1F^o$ (1040)	2-3	2.50	5000.5071	4999.1125	-0.3	19997.972 ^A	1	4.186	6.666	-1.74 ^b	
		3-3	1.70	4913.8699	4912.4984	0.2	20350.559 ^C	-1	4.143	6.666	-2.42 ^b	
1533	$c^3F-^4F5p^3D^o$	2-3	1.60	4981.9290	4980.5394	-0.7	20072.546 ^C	3	4.186	6.675	...	
		3-2	1.57	4777.8172	4776.4817	-0.2	20930.060 ^D	1	4.143	6.737	...	II
		4-3	2.15	4770.0322	4768.6988	-0.7	20964.219 ^B	3	4.076	6.675	...	
		2-1	2.14	4752.4131	4751.0843	0.0	21041.942 ^B	0	4.186	6.795	...	
1534	$c^3F-Dsp3^5D^o$ (1044)	3-4	2.42	4787.2945	4785.9566	-1.1	20888.625 ^B	5	4.143	6.732	-1.93 ^b	
1535	$c^3F-t^3G^o$ (1042)	3-4	2.99	4801.9909	4800.6490	-0.2	20824.696 ^A	1	4.143	6.724	-1.03 ^a	
		2-3	2.68	4799.6061	4798.2649	-0.2	20835.043 ^A	1	4.186	6.769	-1.17 ^a	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1536	$c^3F-t^5P^o$ (1038)	4-5	1.80	4737.1686	4735.8439	0.4	21109.656 ^A	-2	4.076	6.693	-1.32 ^a	
		4-3	2.11	4732.3644	4731.0410	-0.4	21131.086 ^D	2	4.076	6.696	...	
1537	$y^5D^o-d^8^3P$	1-2	1.28	14589.369	14585.382	4	6854.306 ^A	-2	4.217	5.067	...	
		2-2	2.33	14144.597	14140.731	4	7069.837 ^A	-2	4.191	5.067	...	
		1-1	1.28	13963.931	13960.114	2	7161.307 ^A	-1	4.217	5.105	...	
		3-2	2.15	13579.047	13575.335	2	7364.287 ^A	-1	4.154	5.067	...	
1538	$y^5D^o-e^5D$ (1050)	3-4	1.81	8952.6461	8950.1888	-0.8	11169.882 ^A	1	4.154	5.539	...	
		2-3	1.60	8881.1887	8878.7508	0.8	11259.754 ^D	-1	4.191	5.587	...	II
		4-4	1.83	8634.7859	8632.4147	0.0	11581.063 ^C	0	4.103	5.539	...	
1539	$y^5D^o-e^5F$ (1051)	3-4	2.83	7209.3744	7207.3880	1.0	13870.829 ^A	-2	4.154	5.874	...	
		4-5	3.00	7189.2990	7187.3180	1.0	13909.562 ^A	-2	4.103	5.828	-0.15 ^a	
		2-3	2.51	7166.4234	7164.4486	1.0	13953.962 ^A	-2	4.191	5.921	...	
		1-2	2.28	7132.8879	7130.9221	0.5	14019.567 ^A	-1	4.217	5.956	-0.79 ^b	
		0-1	1.95	7092.3384	7090.3835	-1.0	14099.722 ^A	2	4.230	5.978	-1.21 ^b	
		1-1	1.85	7040.1643	7038.2234	2.5	14204.214 ^A	-5	4.217	5.978	-1.30 ^b	
		2-2	1.90	7024.8907	7022.9539	1.5	14235.097 ^A	-3	4.191	5.956	-1.25 ^b	
		3-3	1.90	7018.3270	7016.3920	1.5	14248.410 ^A	-3	4.154	5.921	-1.26 ^b	
		4-4	1.85	7001.8146	6999.8841	0.5	14282.012 ^A	-1	4.103	5.874	-1.56 ^b	
		3-2	2.00	6882.5289	6880.6305	2.4	14529.543 ^B	-5	4.154	5.956	-2.37 ^b	
		4-3	2.34	6821.4722	6819.5903	0.9	14659.592 ^B	-2	4.103	5.921	...	
1540	$y^5D^o-e^3F$ (1052)	3-4	2.27	6918.5896	6916.6815	1.0	14453.813 ^A	-2	4.154	5.946	-1.45 ^b	
		2-3	3.58	6788.7335	6786.8604	1.8	14730.288 ^A	-4	4.191	6.017	-2.07 ^b	
		4-4	3.60	6727.2138	6725.3572	1.4	14864.995 ^A	-3	4.103	5.946	-2.30 ^b	
		1-2	3.04	6706.3319	6704.4809	0.9	14911.281 ^A	-2	4.217	6.066	-2.66 ^b	
		3-3	3.27	6655.6901	6653.8527	1.3	15024.738 ^A	-3	4.154	6.017	-2.52 ^b	
		2-2	2.70	6610.7778	6608.9525	0.4	15126.813 ^A	-1	4.191	6.066	...	
		4-3	1.85	6478.3992	6476.6095	4.2	15435.912 ^D	-10	4.103	6.017	...	
1541	$y^5D^o-e^7F$ (1053)	4-5	0.85	5637.7759	5636.2115	1.3	17737.491 ^B	-4	4.103	6.302	...	
1542	$y^5D^o-f^7D$ (1054)	0-1	0.00	5907.8924	5906.2557	-2.4	16926.510 ^C	7	4.230	6.329	...	
		2-3	0.30	5861.5792	5859.9549	-2.1	17060.249 ^B	6	4.191	6.306	...	
		2-2	0.00	5814.9417	5813.3299	-1.7	17197.077 ^B	5	4.191	6.323	...	
		2-1	0.48	5798.2668	5796.6595	0.0	17246.533 ^B	0	4.191	6.329	...	
		3-4	1.76	5780.0558	5778.4533	0.3	17300.871 ^D	-1	4.154	6.299	...	I
		3-3	0.70	5762.1295	5760.5318	-1.3	17354.695 ^B	4	4.154	6.306	...	
		3-2	0.60	5717.0551	5715.4694	-0.7	17491.523 ^B	2	4.154	6.323	-2.98 ^b	
1543	$y^5D^o-f^5D$ (1055)	1-2	0.30	5994.6586	5992.9987	-0.4	16681.517 ^B	1	4.217	6.286	...	
		0-1	0.30	5967.1244	5965.4718	2.1	16758.491 ^B	-6	4.230	6.308	...	
		2-2	0.00	5918.1900	5916.5506	-3.9	16897.058 ^B	11	4.191	6.286	...	
		1-0	0.60	5894.8681	5893.2349	-0.3	16963.908 ^A	1	4.217	6.321	...	
		3-3	0.85	5872.9310	5871.3037	-0.3	17027.273 ^A	1	4.154	6.265	...	
		2-1	0.90	5855.3052	5853.6826	0.0	17078.529 ^A	0	4.191	6.308	...	
		3-2	1.30	5816.8301	5815.2178	0.3	17191.494 ^D	-1	4.154	6.286	-2.62 ^b	I
		4-4	0.30	5771.2726	5769.6725	-2.3	17327.201 ^B	7	4.103	6.251	...	
		4-3	0.70	5734.4533	5732.8630	0.3	17438.454 ^B	-1	4.103	6.265	-3.04 ^b	
1544	$y^5D^o-e^7P$ (1056)	3-3	0.70	5846.5391	5844.9188	0.3	17104.136 ^A	-1	4.154	6.275	-2.94 ^b	
		3-2	0.70	5762.2912	5760.6935	-1.7	17354.208 ^D	5	4.154	6.306	...	I
		4-3	0.48	5709.2876	5707.7041	-0.3	17515.320 ^B	1	4.103	6.275	...	
1545	$y^5D^o-e^5G$ (1057)	1-2	0.30	5762.6797	5761.0819	0.7	17353.038 ^B	-2	4.217	6.369	...	
		2-3	0.30	5741.3725	5739.7804	1.0	17417.438 ^B	-3	4.191	6.350	...	
		3-4	1.04	5723.2942	5721.7069	-0.3	17472.455 ^D	1	4.154	6.320	...	I
		4-5	1.15	5679.2603	5677.6848	0.3	17607.927 ^A	-1	4.103	6.286	-2.70 ^b	
		3-3	0.60	5645.9239	5644.3573	-0.6	17711.893 ^B	2	4.154	6.350	-3.04 ^b	
1546	$y^5D^o-e^7G$ (1058)	3-4	1.65	5609.2205	5607.6637	-0.6	17827.789 ^B	2	4.154	6.365	-2.27 ^b	
		4-4	2.65	5482.7660	5481.2430	-0.3	18238.969 ^A	1	4.103	6.365	-1.24 ^a	

TABLE 2—*Continued*

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1547	$y^5D^o-f^5F$ (1059)	0-1 1-1	0.60 0.85	5671.2211 5637.8106	5669.6477 5636.2462	1.9 3.5	17632.887 ^B 17737.382 ^C	-6 -11	4.230 4.217	6.417 6.417	... ...
1548	$y^5D^o-e^5S$ (1060)	3-2	0.60	5668.3635	5666.7910	3.2	17641.776 ^C	-10	4.154	6.341	...	
1549	$y^5D^o-e^3D$ (1061)	2-3 1-2 3-3 2-2 1-1 4-3 3-2 2-1	2.34 1.11 2.15 2.57 2.00 2.43 2.64 2.55	5716.6841 5642.4423 5622.0526 5574.6500 5548.5330 5495.0251 5484.6223 5482.9618	5715.0986 5640.8766 5620.4924 5573.1024 5546.9924 5493.4988 5483.0988 5481.4387	-3.9 -1.9 -0.6 0.3 1.5 -0.3 0.0 0.0	17492.658 ^D 17722.822 ^B 17787.098 ^A 17938.346 ^A 18022.782 ^B 18198.279 ^A 18232.796 ^A 18238.318 ^A	12 6 2 -1 -5 1 0 0	4.191 4.217 4.154 4.191 4.217 4.103 4.154 4.191	6.359 6.415 6.359 6.415 6.452 6.359 6.415 6.452	... ... -1.79 ^b -1.32 ^a -1.91 ^b -1.84 ^b -1.41 ^a -1.45 ^b	I
1550	$y^5D^o-g^5D$ (1062)	3-4 2-3 1-2 0-1 1-0 2-2 4-4 3-3 2-1 3-2 4-3	2.84 3.05 2.84 2.72 2.79 2.39 3.70 3.28 2.92 3.07 3.28	5604.3228 5565.1452 5545.4754 5527.0791 5482.3837 5479.9778 5478.0860 5475.4215 5431.0137 5392.9576 5354.8625	5602.7673 5563.6002 5543.9357 5525.5443 5480.8608 5478.4556 5476.5642 5473.9005 5429.5045 5391.4585 5353.3736	-0.6 0.0 -0.3 0.3 -0.3 0.0 -0.3 -0.3 0.6 -0.6 -0.3	17843.369 ^A 17968.983 ^A 18032.719 ^A 18092.739 ^A 18240.241 ^A 18248.249 ^B 18254.551 ^A 18263.434 ^A 18412.769 ^A 18542.701 ^A 18674.616 ^A	2 0 1 -1 1 0 1 1 -2 2 1	4.154 4.191 4.217 4.230 4.217 4.191 4.103 4.154 4.191 4.154 4.103	6.366 6.419 6.453 6.474 6.479 6.453 6.366 6.419 6.474 6.453 6.419	-1.14 ^a -0.99 ^b -1.14 ^b -1.33 ^b -1.26 ^b -1.85 ^b -0.45 ^a -0.76 ^b -0.84 ^b	
1551	$y^5D^o-e^5P$ (1064)	2-3 1-2 2-1 2-2 3-2	2.20 2.41 1.78 2.06 2.42	5544.5687 5540.0545 5489.0460 5474.6850 5387.8318	5543.0292 5538.5162 5487.5213 5473.1642 5386.3341	-1.2 0.3 -1.8 1.5 0.6	18035.668 ^C 18050.364 ^D 18218.102 ^C 18265.891 ^C 18560.342 ^B	4 -1 6 -5 -2	4.191 4.217 4.191 4.191 4.154	6.427 6.455 6.449 6.455 6.455	... ... ... -2.14 ^b -1.77 ^b	I
1552	$y^5D^o-g^5F$ (1065)	3-4 4-5 2-3 1-2 0-1 4-4 3-3 1-1 2-2	3.65 3.73 3.44 3.35 3.19 2.11 3.09 2.44 3.00	5028.5251 5008.6720 4992.6608 4940.6177 4934.7184 4926.6583 4920.3271 4909.4005 4888.5587	5027.1231 5007.2753 4991.2683 4939.2391 4933.3413 4925.2834 4918.9539 4908.0301 4887.1939	0.0 0.8 0.2 3.2 -0.2 -1.0 -0.7 -1.4 0.2	19886.547 ^A 19965.372 ^A 20029.400 ^A 20240.384 ^A 20264.581 ^A 20297.734 ^B 20323.852 ^A 20369.086 ^B 20455.927 ^A	0 -3 -1 -13 1 4 3 6 -1	4.154 4.103 4.191 4.217 4.230 4.103 4.154 4.217 4.191	6.620 6.579 6.674 6.727 6.743 6.620 6.674 6.743 6.727	... ... -0.67 ^b -2.12 ^b	
1553	$y^5D^o-h^5D$ (1066)	3-4 3-3 4-4 1-1 2-2 2-1 4-3 3-2	2.36 3.46 3.95 3.26 3.33 2.98 3.25 3.30	5089.5714 4990.3419 4985.2434 4971.3044 4959.0632 4918.6028 4890.0021 4887.6964	5088.1531 4988.9501 4983.8529 4969.9176 4957.6796 4917.2300 4888.6369 4886.3318	0.0 0.0 0.0 0.0 -2.7 0.0 0.2 0.0	19648.020 ^B 20038.707 ^A 20059.201 ^A 20115.445 ^A 20165.099 ^A 20330.977 ^A 20449.889 ^A 20459.536 ^A	0 0 0 0 11 0 -1 0	4.154 4.154 4.103 4.217 4.191 4.191 4.103 4.154	6.590 6.639 6.590 6.711 6.691 6.711 6.639 6.691	-1.78 ^b -0.89 ^b ... -0.71 ^b ... -1.18 ^b	
1554	$y^5D^o-f^5P$ (1067)	2-2 1-1 3-2 4-3 2-1	2.12 2.24 3.81 4.09 3.36	5058.8936 5023.0841 4984.6411 4983.8901 4969.2836	5057.4836 5021.6835 4983.2507 4982.4999 4967.8974	2.3 1.8 0.0 0.2 0.2	19767.168 ^D 19908.088 ^B 20061.625 ^A 20064.648 ^A 20123.625 ^A	-9 -7 0 -1 -1	4.191 4.217 4.154 4.103 4.191	6.641 6.686 6.641 6.591 6.686	... ... ... ... ...	I
1555	$y^5D^o-f^5G$ (1068)	3-4 1-2 2-3 2-2 3-3 4-4	3.26 3.18 3.24 2.47 2.66 2.74	4935.3825 4911.9359 4911.6968 4860.4792 4841.6741 4837.2191	4934.0053 4910.5648 4910.3258 4859.1218 4840.3217 4835.8679	-0.2 0.0 0.5 0.0 0.0 0.2	20261.854 ^A 20358.572 ^A 20359.563 ^A 20574.103 ^B 20654.013 ^A 20673.035 ^A	1 0 -2 0 0 -1	4.154 4.217 4.191 4.191 4.154 4.103	6.666 6.741 6.715 6.741 6.715 6.666	... ... ... -1.73 ^b -1.39 ^b -1.50 ^b	
1556	$y^5D^o-e^3G$ (1069)	3-4 2-3	2.32 1.90	4863.9552 4859.6010	4862.5969 4858.2439	-1.7 -2.8	20559.400 ^B 20577.821 ^D	7 12	4.154 4.191	6.703 6.742	... ...

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1557	$y^5D^o - f^3D$ (1070)	4-5	2.58	4844.1414	4842.7884	0.5	20643.493 ^B	-2	4.103	6.663	-1.56 ^b	I Ar
		2-3	2.87	5013.5559	5012.1579	0.8	19945.923 ^A	-3	4.191	6.664	...	
		1-2	2.70	4987.6138	4986.2226	0.0	20049.668 ^A	0	4.217	6.703	-1.39 ^b	
		3-3	3.35	4940.6177	4939.2391	-2.2	20240.384 ^D	9	4.154	6.664	...	
		2-2	2.55	4934.5679	4933.1908	0.0	20265.199 ^D	0	4.191	6.703	...	
		0-1	2.79	4919.3855	4918.0125	-0.2	20327.742 ^A	1	4.230	6.751	-1.36 ^b	
		1-1	2.80	4894.2253	4892.8589	-0.2	20432.243 ^A	1	4.217	6.751	-1.29 ^b	
		2-1	2.27	4843.1378	4841.7850	0.5	20647.771 ^B	-2	4.191	6.751	-1.88 ^b	
1558	$y^5D^o - s^6D6s^5D$	4-3	1.98	4842.2487	4840.8962	-1.2	20651.562 ^C	5	4.103	6.664	...	
		4-4	2.16	4676.4047	4675.0961	2.0	21383.949 ^C	-9	4.103	6.754	...	
1559	$y^5D^o - e^3P$ (1072)	2-2	1.70	4744.2647	4742.9381	6.1	21078.082 ^D	-27	4.191	6.804	...	
		3-2	1.90	4678.8989	4677.5896	1.8	21372.550 ^C	-8	4.154	6.804	-2.28 ^b	
1560	$y^5D^o - ^4F6s^5F$	3-4	2.26	4346.1116	4344.8902	3.8	23009.073 ^D	-20	4.154	7.007	...	
		4-5	2.50	4344.4374	4343.2164	0.6	23017.940 ^B	-3	4.103	6.957	...	
1561	$y^5D^o - s^4D4d^5F$	1-2	2.18	4082.4198	4081.2676	0.8	24495.276 ^C	-5	4.217	7.254	...	
		3-4	2.39	4063.1018	4061.9546	1.8	24611.739 ^B	-11	4.154	7.206	...	
		4-4	2.52	3996.3344	3995.2047	0.2	25022.931 ^C	-1	4.103	7.206	...	
1562	$y^5D^o - i^5D$ (1073*)	1-2	2.32	4174.1382	4172.9620	-1.7	23957.041 ^C	10	4.217	7.188	...	
		3-3	2.08	4114.0724	4112.9119	0.2	24306.816 ^C	-1	4.154	7.168	...	
		3-2	2.52	4087.1376	4085.9842	1.8	24467.001 ^C	-11	4.154	7.188	-1.20 ^b	
		4-3	2.22	4045.6335	4044.4909	-1.6	24718.008 ^C	10	4.103	7.168	...	
1563	$y^5D^o - s^4D4d^5P$	2-3	2.36	4051.8184	4050.6742	0.7	24680.277 ^C	-4	4.191	7.251	...	
1564	$y^5D^o - 58661^e$	3-4	2.34	3975.3806	3974.2564	4.6	25154.824 ^D	-29	4.154	7.273	...	
1565	$y^5D^o - s^4D4d^5S$	3-2	3.63	3934.7133	3933.5997	4.0	25414.812 ^D	-26	4.154	7.305	...	I
1566	$y^5F^o - e^5D$ (1076)	3-4	0.78	9663.4743	9660.8247	6.5	10348.245 ^B	-7	4.256	5.539	...	
		1-1	0.78	9244.7117	9242.1754	6.0	10816.995 ^B	-7	4.301	5.642	...	
		1-0	1.00	9171.8397	9169.3232	-0.8	10902.938 ^B	1	4.301	5.653	...	
		2-1	1.36	9122.4737	9119.9705	0.0	10961.939 ^A	0	4.283	5.642	...	
		5-4	2.01	9106.1362	9103.6375	1.7	10981.606 ^A	-2	4.178	5.539	...	
		3-2	1.63	9086.6788	9084.1854	0.8	11005.121 ^A	-1	4.256	5.620	...	
1567	$y^5F^o - e^5F$ (1077)	4-5	2.96	7712.4865	7710.3645	1.2	12965.987 ^A	-2	4.220	5.828	-1.11 ^a	
		3-4	3.11	7663.3062	7661.1974	1.8	13049.198 ^A	-3	4.256	5.874	...	
		2-3	3.09	7570.9838	7568.8999	0.6	13208.323 ^A	-1	4.283	5.921	-0.60 ^c	
		5-5	3.89	7513.0887	7511.0205	1.1	13310.105 ^A	-2	4.178	5.828	0.10 ^a	
		4-4	3.70	7497.1314	7495.0674	1.1	13338.435 ^A	-2	4.220	5.874	0.36 ^c	
		1-2	2.92	7493.7117	7491.6486	0.6	13344.522 ^A	-1	4.301	5.956	-0.80 ^c	
		3-3	3.76	7447.8015	7445.7508	1.1	13426.781 ^A	-2	4.256	5.921	...	
		2-2	3.51	7413.1957	7411.1544	0.5	13489.459 ^A	-1	4.283	5.956	...	
		1-1	3.29	7391.4342	7389.3988	0.5	13529.174 ^A	-1	4.301	5.978	...	
		2-1	1.90	7313.0902	7311.0759	1.1	13674.110 ^A	-2	4.283	5.978	...	
		5-4	1.48	7308.5754	7306.5623	-0.5	13682.557 ^B	1	4.178	5.874	-1.74 ^b	
		3-2	2.00	7295.0549	7293.0454	1.6	13707.916 ^A	-3	4.256	5.956	...	
1568	$y^5F^o - e^3F$ (1078)	4-3	1.90	7290.7468	7288.7385	2.1	13716.016 ^A	-4	4.220	5.921	...	
		4-4	1.95	7183.1753	7181.1959	1.5	13921.420 ^A	-3	4.220	5.946	...	
		5-4	1.48	7009.9028	7007.9701	3.9	14265.533 ^B	-8	4.178	5.946	...	
1569	$y^5F^o - e^7F$ (1079)	3-2	1.85	6849.4849	6847.5954	-1.4	14599.638 ^C	3	4.256	6.066	...	II
		2-2	0.00	5958.1107	5956.4605	-1.4	16783.844 ^B	4	4.283	6.364	...	
		4-5	0.30	5954.5342	5952.8850	-1.8	16793.925 ^B	5	4.220	6.302	...	
		3-3	0.60	5945.2707	5943.6240	1.1	16820.092 ^D	-3	4.256	6.341	...	
		4-3	0.00	5844.7721	5843.1523	7.9	17109.307 ^C	-23	4.220	6.341	...	
1570	$y^5F^o - f^7D$ (1080)	5-5	0.00	5834.9770	5833.3599	4.1	17138.028 ^C	-12	4.178	6.302	...	
		5-5	0.00	5994.3011	5992.6413	-0.7	16682.512 ^B	2	4.178	6.246	...	
		4-4	0.30	5963.5697	5961.9181	-0.4	16768.480 ^B	1	4.220	6.299	-3.16 ^b	
1570		5-4	0.00	5843.6470	5842.0275	-1.0	17112.601 ^D	3	4.178	6.299	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1571	$y^5F^\circ - f^5D$ (1081)	4-3	0.30	6062.4862	6060.8081	-1.5	16494.883 ^B	4	4.220	6.265	-3.14 ^b	
		5-4	0.85	5978.0946	5976.4391	0.0	16727.738 ^A	0	4.178	6.251	...	
1572	$y^5F^\circ - e^7P$ (1082)	3-4	3.78	6193.2716	6191.5584	-8.1	16146.555 ^D	21	4.256	6.258	...	I
		3-3	0.60	6141.5664	6139.8671	6.4	16282.491 ^C	-17	4.256	6.275	...	
		5-4	0.30	5959.5150	5957.8645	0.0	16779.889 ^B	0	4.178	6.258	...	
1573	$y^5F^\circ - e^5G$ (1083)	5-6	1.58	5942.6375	5940.9915	0.4	16827.545 ^A	-1	4.178	6.264	-2.15 ^b	
		3-3	0.60	5920.5720	5918.9319	0.4	16890.260 ^B	-1	4.256	6.350	...	
		4-4	1.15	5903.1668	5901.5314	0.7	16940.060 ^A	-2	4.220	6.320	...	
		5-5	2.02	5879.4170	5877.7880	-5.9	17008.489 ^D	17	4.178	6.286	-2.23 ^b	II
		3-2	0.00	5868.0711	5866.4451	5.5	17041.375 ^B	-16	4.256	6.369	...	
		4-3	0.00	5820.8936	5819.2802	1.7	17179.493 ^C	-5	4.220	6.350	...	
		5-4	0.30	5785.6382	5784.0342	1.0	17284.178 ^B	-3	4.178	6.320	...	
1574	$y^5F^\circ - e^7G$	3-3	1.08	5837.1139	5835.4962	3.4	17131.754 ^D	-10	4.256	6.380	...	II
		5-6	0.48	5789.5676	5787.9626	-4.7	17272.447 ^D	14	4.178	6.319	...	II
		4-4	1.11	5781.8859	5780.2829	-0.3	17295.395 ^A	1	4.220	6.365	...	
		5-5	0.60	5703.4807	5701.8987	0.7	17533.153 ^B	-2	4.178	6.351	...	
		5-4	2.25	5669.0908	5667.5180	0.0	17639.513 ^A	0	4.178	6.365	-1.58 ^a	
1575	$y^5F^\circ - f^5F$ (1084)	1-2	1.00	5877.9068	5876.2782	1.7	17012.859 ^A	-5	4.301	6.410	-2.65 ^b	
		2-3	1.20	5862.7342	5861.1096	1.0	17056.888 ^A	-3	4.283	6.398	-2.45 ^b	
		1-1	0.85	5860.8584	5859.2343	0.3	17062.347 ^A	-1	4.301	6.417	...	
		4-5	1.40	5860.4019	5858.7780	-0.7	17063.676 ^A	2	4.220	6.336	-2.26 ^b	
		3-4	1.45	5836.7184	5835.1008	0.7	17132.915 ^A	-2	4.256	6.380	-2.37 ^b	
		2-2	0.60	5828.2534	5826.6380	1.0	17157.799 ^B	-3	4.283	6.410	-2.94 ^b	
		2-1	0.30	5811.4934	5809.8825	1.4	17207.281 ^B	-4	4.283	6.417	...	
		3-3	0.48	5788.5957	5786.9910	1.0	17275.347 ^B	-3	4.256	6.398	...	
		3-2	0.85	5754.9793	5753.3836	1.0	17376.257 ^A	-3	4.256	6.410	...	
		5-5	1.40	5744.5529	5742.9600	-1.0	17407.795 ^A	3	4.178	6.336	-2.51 ^b	
		4-4	1.40	5739.8194	5738.2277	0.3	17422.151 ^A	-1	4.220	6.380	-2.34 ^b	
		5-4	0.60	5628.6479	5627.0860	5.1	17766.256 ^C	-16	4.178	6.380	...	
1576	$y^5F^\circ - e^3D$ (1086)	2-3	0.85	5971.2159	5969.5622	0.0	16747.008 ^A	0	4.283	6.359	-2.73 ^b	
		3-3	1.60	5894.3267	5892.6937	0.0	16965.466 ^A	0	4.256	6.359	...	
		1-2	1.15	5865.8698	5864.2444	0.0	17047.770 ^A	0	4.301	6.415	-2.52 ^b	
		2-2	1.80	5816.4197	5814.8075	0.0	17192.707 ^A	0	4.283	6.415	-1.97 ^b	
		4-3	2.04	5795.5214	5793.9148	-0.3	17254.703 ^A	1	4.220	6.359	-1.70 ^b	
		1-1	1.78	5764.4366	5762.8384	-2.0	17347.749 ^A	6	4.301	6.452	...	
		3-2	2.05	5743.4411	5741.8484	0.3	17411.165 ^A	-1	4.256	6.415	-1.85 ^a	
		2-1	2.34	5716.6841	5715.0986	6.9	17492.658 ^D	-21	4.283	6.452	...	I
1577	$y^5F^\circ - g^5D$ (1087)	3-4	1.57	5874.8407	5873.2129	0.0	17021.738 ^A	0	4.256	6.366	-2.14 ^b	
		2-3	1.40	5806.0721	5804.4627	-1.3	17223.348 ^A	4	4.283	6.419	-2.04 ^b	
		4-4	2.52	5776.6821	5775.0806	-0.3	17310.975 ^A	1	4.220	6.366	-1.30 ^a	
		1-2	1.49	5761.1386	5759.5412	-2.3	17357.680 ^A	7	4.301	6.453	...	
		3-3	2.54	5733.3522	5731.7623	0.3	17441.803 ^A	-1	4.256	6.419	-1.30 ^b	
		2-2	2.34	5713.4333	5711.8486	0.0	17502.611 ^A	0	4.283	6.453	-1.46 ^b	
		1-1	2.26	5707.0475	5705.4646	0.3	17522.195 ^A	-1	4.301	6.474	-1.60 ^b	
		1-0	2.26	5693.0762	5691.4970	0.0	17565.196 ^A	0	4.301	6.479	-1.52 ^b	
		5-4	3.32	5664.0877	5662.5162	-0.3	17655.094 ^A	1	4.178	6.366	-0.57 ^a	
		2-1	2.47	5660.2283	5658.6579	0.0	17667.132 ^A	0	4.283	6.474	...	
		3-2	2.66	5642.9998	5641.4340	-0.6	17721.071 ^A	2	4.256	6.453	-1.18 ^b	
		4-3	3.00	5639.8271	5638.2621	-0.3	17731.040 ^A	1	4.220	6.419	-0.87 ^b	
1578	$y^5F^\circ - e^5P$ (1088)	1-1	0.00	5771.1693	5769.5692	3.0	17327.511 ^C	-9	4.301	6.449	...	
		1-2	0.95	5755.2894	5753.6935	-0.7	17375.321 ^A	2	4.301	6.455	...	
		2-1	1.04	5723.2942	5721.7069	0.3	17472.455 ^D	-1	4.283	6.449	...	I
		3-3	1.38	5711.5164	5709.9323	0.0	17508.485 ^A	0	4.256	6.427	-2.34 ^b	
		2-2	1.91	5707.6792	5706.0961	0.0	17520.256 ^A	0	4.283	6.455	...	
		3-2	2.20	5637.3869	5635.8226	0.3	17738.715 ^A	-1	4.256	6.455	-1.89 ^b	
		4-3	1.80	5618.6960	5617.1366	-1.3	17797.724 ^B	4	4.220	6.427	...	
1579	$y^5F^\circ - g^5F$ (1089)	4-5	2.04	5257.1282	5255.6654	1.9	19021.792 ^B	-7	4.220	6.579	...	
		3-4	2.98	5245.2366	5243.7769	0.6	19064.917 ^A	-2	4.256	6.620	-1.15 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1580	$y^5F^o - h^5D$ (1090)	2-3	3.06	5185.7099	5184.2661	-0.3	19283.763 ^A	1	4.283	6.674	-1.00 ^b	II
		4-4	3.51	5166.8495	5165.4107	0.0	19354.154 ^A	0	4.220	6.620	...	
		5-5	3.99	5163.7108	5162.2729	0.3	19365.918 ^A	-1	4.178	6.579	0.02 ^b	
		3-3	3.11	5127.6214	5126.1930	0.3	19502.220 ^D	-1	4.256	6.674	-1.08 ^b	
		1-2	3.20	5111.0759	5109.6520	0.0	19565.352 ^A	0	4.301	6.727	-0.98 ^b	
		1-1	3.12	5077.6796	5076.2646	0.0	19694.035 ^A	0	4.301	6.743	...	
		2-2	3.34	5073.4923	5072.0784	0.0	19710.289 ^A	0	4.283	6.727	...	
		3-2	1.90	5017.8782	5016.4790	1.3	19928.742 ^B	-5	4.256	6.727	-1.69 ^b	
		4-4	3.10	5231.3302	5229.8743	7.9	19115.597 ^A	-29	4.220	6.590	...	
		3-3	3.18	5203.7050	5202.2564	0.5	19217.077 ^A	-2	4.256	6.639	...	
		2-2	3.31	5149.4770	5148.0428	0.3	19419.448 ^A	-1	4.283	6.691	...	
		1-1	3.00	5143.9268	5142.4941	0.0	19440.401 ^A	0	4.301	6.711	...	
		5-4	3.84	5138.8135	5137.3822	0.3	19459.745 ^A	-1	4.178	6.590	-0.40 ^b	
		4-3	3.92	5126.5452	5125.1171	0.0	19506.314 ^A	0	4.220	6.639	-0.14 ^b	
1581	$y^5F^o - f^5P$ (1091)	2-1	2.44	5105.8601	5104.4375	-0.3	19585.339 ^B	1	4.283	6.711	-1.69 ^b	
		3-2	3.55	5092.1929	5090.7740	0.5	19637.905 ^A	-2	4.256	6.691	-0.40 ^b	
		2-2	2.15	5257.1984	5255.7356	0.0	19021.538 ^B	0	4.283	6.641	...	
		4-3	2.94	5229.8323	5228.3767	0.5	19121.072 ^A	-2	4.220	6.591	-1.29 ^b	
		1-1	2.45	5199.3847	5197.9373	1.4	19233.045 ^B	-5	4.301	6.686	-1.64 ^b	
1582	$y^5F^o - f^5G$ (1092)	3-2	3.25	5197.5065	5196.0596	0.3	19239.995 ^A	-1	4.256	6.641	...	
		2-1	3.20	5160.4947	5159.0576	0.0	19377.987 ^A	0	4.283	6.686	-0.82 ^b	
		4-5	3.81	5196.9191	5195.4723	0.0	19242.170 ^A	0	4.220	6.606	...	
		3-4	3.59	5143.9739	5142.5412	0.3	19440.223 ^A	-1	4.256	6.666	...	
		5-6	4.32	5135.1188	5133.6885	0.3	19473.746 ^A	-1	4.178	6.592	0.14 ^b	
		5-5	2.35	5105.6137	5104.1912	1.3	19586.284 ^B	-5	4.178	6.606	-1.97 ^b	
		2-3	3.65	5098.4186	5096.9980	0.3	19613.925 ^A	-1	4.283	6.715	...	
		1-2	3.68	5080.3906	5078.9748	0.0	19683.526 ^A	0	4.301	6.741	...	
		4-4	3.19	5068.5622	5067.1496	0.0	19729.461 ^A	0	4.220	6.666	-0.97 ^b	
		2-2	1.83	5043.2545	5041.8486	-0.8	19828.466 ^B	3	4.283	6.741	...	
		3-3	2.93	5042.2582	5040.8525	0.0	19832.384 ^A	0	4.256	6.715	...	
		3-2	1.72	4988.2947	4986.9034	-2.0	20046.931 ^C	8	4.256	6.741	-2.09 ^b	
		5-4	2.04	4981.6729	4980.2834	0.5	20073.578 ^B	-2	4.178	6.666	...	
1583	$y^5F^o - e^5H$ (1093)	4-3	2.10	4969.7790	4968.3926	0.2	20121.619 ^B	-1	4.220	6.715	...	II
		4-5	1.90	5041.6455	5040.2400	-13.7	19834.794 ^D	54	4.220	6.679	...	
		3-4	3.05	5022.9917	5021.5912	1.0	19908.454 ^D	-4	4.256	6.724	-0.68 ^a	
		2-3	2.44	5014.0929	5012.6947	-0.3	19943.787 ^B	1	4.283	6.756	-1.79 ^b	
		4-3	2.94	4889.6274	4888.2623	6.0	20451.456 ^D	-25	4.220	6.756	...	
1584	$y^5F^o - e^3G$ (1094)	4-5	4.01	5076.1630	5074.7483	0.0	19699.919 ^A	0	4.220	6.663	-0.20 ^b	Ar
		3-4	3.84	5066.4305	5065.0185	0.3	19737.762 ^A	-1	4.256	6.703	...	
		2-3	3.45	5042.3118	5040.9061	-0.5	19832.173 ^A	2	4.283	6.742	...	
		4-4	1.54	4993.2601	4991.8675	1.0	20026.996 ^C	-4	4.220	6.703	-1.91 ^b	
		3-3	2.07	4987.3752	4985.9842	0.5	20050.627 ^B	-2	4.256	6.742	-1.90 ^b	
1585	$y^5F^o - f^3D$ (1095)	3-3	3.54	5149.6634	5148.2292	0.0	19418.745 ^A	0	4.256	6.664	...	
		2-2	3.23	5123.0663	5121.6392	0.0	19519.560 ^A	0	4.283	6.703	-0.81 ^b	
		4-3	3.04	5074.0862	5072.6721	0.0	19707.982 ^A	0	4.220	6.664	...	
		3-2	2.71	5066.3648	5064.9528	0.3	19738.018 ^A	-1	4.256	6.703	...	
		1-1	1.30	5061.4452	5060.0344	-1.5	19757.203 ^B	6	4.301	6.751	...	
		2-1	2.50	5024.5876	5023.1866	0.8	19902.131 ^A	-3	4.283	6.751	-1.60 ^b	
1586	$y^5F^o - e^3H$ (1097)	5-6	2.83	4963.9567	4962.5719	0.0	20145.220 ^A	0	4.178	6.675	-1.18 ^a	
		3-4	1.99	4943.9700	4942.5905	0.7	20226.660 ^B	-3	4.256	6.764	...	
		4-5	2.80	4943.8387	4942.4592	0.0	20227.197 ^A	0	4.220	6.728	-1.41 ^a	
		4-4	1.95	4874.2683	4872.9072	0.0	20515.900 ^C	0	4.220	6.764	-2.30 ^b	
1587	$y^5F^o - f^3F$ (1098)	3-4	2.03	4912.9007	4911.5294	-1.4	20354.574 ^B	6	4.256	6.780	-2.24 ^b	
		4-4	1.78	4844.0671	4842.7140	-1.4	20643.810 ^C	6	4.220	6.780	...	
1588	$y^5F^o - 4F6s^5F$	5-5	2.74	4460.6043	4459.3527	0.2	22418.487 ^B	-1	4.178	6.957	...	
		4-4	2.21	4449.0543	4447.8057	2.6	22476.687 ^C	-13	4.220	7.007	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1589	$y^5F^\circ - s^6D5d^5D$	4-4	2.21	4510.9991	4509.7342	-0.8	22168.038 ^B	4	4.220	6.969	...	
1590	$y^5F^\circ - s^6D5d^7D$	5-4	2.15	4394.3242	4393.0900	-1.9	22756.628 ^D	10	4.178	6.999	...	
1591	$y^5F^\circ - s^6D5d^5F$	3-3	2.23	4464.6598	4463.4072	3.0	22398.123 ^D	-15	4.256	7.033	...	
1592	$y^5F^\circ - 4^6F6s^3F$	4-4	2.18	4391.9862	4390.7527	1.2	22768.742 ^D	-6	4.220	7.043	...	
1593	$y^5F^\circ - s^4D4d^5F$	4-4	1.90	4152.9314	4151.7607	-3.4	24079.377 ^D	20	4.220	7.206	...	
1594	$y^5F^\circ - i^5D$ (1102*)	2-2	2.08	4268.5905	4267.3894	-2.4	23426.937 ^D	13	4.283	7.188	...	
		3-3	1.85	4258.0053	4256.8071	2.4	23485.175 ^D	-13	4.256	7.168	-1.56 ^b	
		4-4	2.36	4226.9030	4225.7129	-1.4	23657.983 ^C	8	4.220	7.153	...	
1595	$y^5F^\circ - s^6D7s^7D$	3-4	2.26	4189.5073	4188.3271	0.9	23869.155 ^D	-5	4.256	7.215	...	
1596	$y^5F^\circ - g^5G$ (1103)	1-2	2.45	4143.7572	4142.5889	1.2	24132.688 ^C	-7	4.301	7.293	-1.02 ^b	
		3-4	2.63	4133.6985	4132.5329	-0.3	24191.411 ^B	2	4.256	7.255	...	
		4-5	2.56	4126.7813	4125.6175	-2.7	24231.960 ^D	16	4.220	7.224	...	I
		5-6	3.05	4114.1194	4112.9589	0.2	24306.538 ^A	-1	4.178	7.191	-0.33 ^b	
		3-3	2.38	4101.5042	4100.3470	-1.0	24381.299 ^D	6	4.256	7.279	...	
1597	$y^5F^\circ - s^4D4d^5P$	2-3	2.38	4178.0417	4176.8645	-2.8	23934.658 ^D	16	4.283	7.251	...	
1598	$y^5F^\circ - 4^6F5d^5F$	5-5	2.79	4016.7410	4015.6059	0.3	24895.805 ^D	-2	4.178	7.264	...	II
1599	$y^5F^\circ - 4^6F5d^3G$	4-5	2.28	4036.7346	4035.5943	-0.2	24772.498 ^C	1	4.220	7.292	...	
1600	$z^3P^\circ - d^8^3P$	1-2	2.38	15364.436	15360.238	0	6508.537 ^A	0	4.260	5.067	...	
		0-1	2.40	15099.321	15095.196	0	6622.814 ^A	0	4.284	5.105	...	
		1-1	2.04	14672.358	14668.348	0	6815.537 ^A	0	4.260	5.105	...	
		1-0	2.50	14552.594	14548.617	6	6871.627 ^A	-3	4.260	5.112	...	
		2-2	2.75	14441.523	14437.577	0	6924.477 ^A	0	4.209	5.067	...	
		2-1	2.54	13828.433	13824.653	0	7231.477 ^A	0	4.209	5.105	...	
1601	$z^3P^\circ - e^5F$ (1105)	2-3	1.78	7241.8627	7239.8676	0.0	13808.602 ^B	0	4.209	5.921	...	
1602	$z^3P^\circ - e^3D$ (1107)	2-3	3.31	5764.5905	5762.9922	0.0	17347.286 ^A	0	4.209	6.359	-0.45 ^b	
		1-2	3.01	5754.7184	5753.1227	0.3	17377.045 ^A	-1	4.260	6.415	-0.69 ^a	
		0-1	2.70	5719.4191	5717.8329	0.3	17484.293 ^A	-1	4.284	6.452	-1.13 ^b	
		1-1	2.73	5657.0595	5655.4900	-3.2	17677.028 ^D	10	4.260	6.452	...	II
		2-2	2.55	5620.1925	5618.6327	0.0	17792.985 ^A	0	4.209	6.415	-1.28 ^a	
1603	$z^3P^\circ - g^5D$ (1108)	0-1	1.76	5662.9166	5661.3455	0.6	17658.745 ^A	-2	4.284	6.474	-2.02 ^b	
		1-2	2.03	5653.8867	5652.3180	0.0	17686.948 ^A	0	4.260	6.453	-1.95 ^b	
		2-3	1.90	5610.5294	5608.9723	-2.2	17823.630 ^C	7	4.209	6.419	-2.40 ^b	
		1-1	2.23	5601.7789	5600.2242	-0.3	17851.472 ^A	1	4.260	6.474	...	
		2-2	2.54	5523.9805	5522.4465	0.3	18102.888 ^A	-1	4.209	6.453	-1.55 ^b	
		2-1	2.44	5474.2298	5472.7091	0.3	18267.410 ^A	-1	4.209	6.474	-1.72 ^b	
1604	$z^3P^\circ - e^5P$ (1109)	0-1	1.00	5726.0428	5724.4547	0.7	17464.068 ^A	-2	4.284	6.449	-2.64 ^b	
		1-1	1.00	5663.5420	5661.9707	0.0	17656.795 ^B	0	4.260	6.449	-2.73 ^b	
		1-2	1.30	5648.2515	5646.6843	0.3	17704.594 ^B	-1	4.260	6.455	-2.50 ^b	
		2-2	1.78	5518.5981	5517.0655	-3.0	18120.544 ^C	10	4.209	6.455	-2.37 ^b	
1605	$z^3P^\circ - g^5F$ (1110)	2-3	2.84	5029.1588	5027.7567	-0.5	19884.041 ^A	2	4.209	6.674	-1.25 ^b	
		1-2	1.23	5026.4858	5025.0844	2.8	19894.615 ^C	-11	4.260	6.727	-1.99 ^b	
		1-1	1.30	4994.1783	4992.7854	-0.7	20023.314 ^C	3	4.260	6.743	-2.35 ^b	
1606	$z^3P^\circ - h^5D$ (1111)	1-1	2.20	5058.2511	5056.8412	-0.8	19769.679 ^B	3	4.260	6.711	-1.96 ^b	
		2-2	2.48	4995.0736	4993.6805	0.5	20019.725 ^B	-2	4.209	6.691	-1.47 ^b	
1607	$z^3P^\circ - f^5P$ (1112)	0-1	2.18	5162.7354	5161.2977	6.4	19369.577 ^C	-24	4.284	6.686	...	
		2-1	2.67	5005.4402	5004.0443	0.3	19978.263 ^A	-1	4.209	6.686	-1.40 ^b	
1608	$z^3P^\circ - f^5G$ (1113)	1-2	2.05	4996.8033	4995.4097	1.5	20012.795 ^B	-6	4.260	6.741	-1.89 ^b	
		2-3	2.62	4947.0177	4945.6374	1.2	20214.199 ^A	-5	4.209	6.715	-1.51 ^b	
1609	$z^3P^\circ - f^3D$	0-1	1.99	5026.7041	5025.3026	-0.8	19893.751 ^B	3	4.284	6.751	-2.04 ^b	
1610	$z^3P^\circ - s^4D4d^3D$	1-1	2.30	4064.5645	4063.4169	-0.8	24602.882 ^C	5	4.260	7.311	...	
		1-2	2.28	4062.2435	4061.0965	1.5	24616.939 ^C	-9	4.260	7.312	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1611	$z^3P^o-58831^e$	2-3	2.29	4042.7910	4041.6492	0.0	24735.387 ^C	0	4.209	7.275	...	
		2-1	2.41	3996.9909	3995.8610	-0.8	25018.821 ^D	5	4.209	7.311	...	
		2-2	2.83	3994.7461	3993.6168	1.1	25032.880 ^D	-7	4.209	7.312	...	
		2-3	2.59	4018.5974	4017.4619	-1.5	24884.304 ^B	9	4.209	7.294	...	
		1-1	2.71	4046.2547	4045.1119	-0.7	24714.213 ^C	4	4.260	7.324	...	
		1-1	2.65	4033.5953	4032.4559	1.5	24791.778 ^C	-9	4.260	7.334	...	
		2-1	2.51	3967.0373	3965.9152	-0.3	25207.729 ^D	2	4.209	7.334	...	
		1-2	2.61	3928.8618	3927.7497	2.9	25452.664 ^C	-19	4.260	7.416	...	
		2-3	2.96	3909.9498	3908.8426	0.3	25575.776 ^C	-2	4.209	7.380	...	
1614	$z^3P^o-s^4D4d^3F$	2-2	2.57	3865.6893	3864.5936	2.1	25868.608 ^D	-14	4.209	7.416	...	
		1-1	2.85	3868.1158	3867.0195	-1.9	25852.380 ^D	13	4.260	7.465	...	
		2-1	2.36	3806.8694	3805.7891	0.7	26268.303 ^D	-5	4.209	7.465	...	
1616	$b^1D-y^3F^o$	2-2	2.22	34669.639	34660.186	0	2884.368 ^A	0	4.294	4.652	...	
1617	$b^1D-y^3D^o$	2-1	1.56	22941.331	22935.071	-16	4358.945 ^B	3	4.294	4.835	...	
1618	$b^1D-y^3P^o$	2-2	1.36	8271.1070	8268.8341	0.7	12090.280 ^B	-1	4.294	5.793	...	
1619	$b^1D-w^3D^o$	2-2	1.04	8000.4525	7998.2527	-1.9	12499.293 ^C	3	4.294	5.844	...	
1620	$b^1D-Psp^3^1D^o$	2-2	1.68	7822.9553	7820.8034	0.6	12782.893 ^A	-1	4.294	5.879	-2.64 ^b	
1621	$b^1D-v^3G^o$ (1121)	2-3	2.62	6572.9828	6571.1677	1.3	15213.793 ^B	-3	4.294	6.180	...	
1622	$b^1D-Fsp^3^1F^o$ (1122*)	2-3	2.85	6738.3910	6736.5314	-2.3	14840.338 ^A	5	4.294	6.134	-2.98 ^b	
1623	$b^1D-u^5F^o$	2-2	0.00	5817.1265	5815.5141	0.7	17190.618 ^B	-2	4.294	6.426	...	
1624	$b^1D-t^5D^o$ (1124)	2-2	0.30	5884.7058	5883.0753	1.4	16993.203 ^B	-4	4.294	6.401	...	
1625	$b^1D-v^3F^o$ (1125)	2-2	1.34	6037.0090	6035.3378	0.7	16564.494 ^D	-2	4.294	6.348	-2.59 ^b	I
		2-3	0.60	5977.8158	5976.1604	0.0	16728.518 ^A	0	4.294	6.368	-3.06 ^c	
1626	$b^1D-u^3G^o$ (1127)	2-3	1.41	5817.6734	5816.0609	-7.4	17189.002 ^A	22	4.294	6.425	-2.30 ^b	
1627	$b^1D-y^1D^o$ (1128)	2-2	2.06	5857.7113	5856.0880	-0.3	17071.514 ^A	1	4.294	6.411	-1.33 ^a	
1628	$b^1D-x^1D^o$ (1129)	2-2	1.62	5839.3196	5837.7012	0.0	17125.283 ^A	0	4.294	6.417	-2.34 ^b	
1629	$b^1D-u^3D^o$	2-3	0.30	5769.5724	5767.9727	0.0	17332.307 ^B	0	4.294	6.443	...	
1630	$b^1D-^2P4p^1P^o$	2-1	1.56	5699.9460	5698.3649	0.0	17544.026 ^A	0	4.294	6.469	-2.15 ^b	
1631	$b^1D-^4F5p^3G^o$	2-3	2.00	5070.8365	5069.4233	-0.3	19720.612 ^C	1	4.294	6.739	...	
1632	$b^1D-v^3P^o$	2-1	2.12	5378.3286	5376.8334	2.9	18593.137 ^C	-10	4.294	6.599	-2.31 ^b	
1633	$b^1D-^4F5p^5D^o$	2-3	2.57	5222.4917	5221.0381	1.9	19147.948 ^B	-7	4.294	6.668	...	
1634	$b^1D-x^3S^o$	2-1	2.15	5216.0599	5214.6080	0.5	19171.559 ^C	-2	4.294	6.671	...	
1635	$b^1D-s^3G^o$	2-3	1.70	4727.2564	4725.9344	-4.0	21153.919 ^D	18	4.294	6.917	...	
1636	$b^1D-w^1D^o$ (1133)	2-2	2.48	4735.4223	4734.0980	-0.7	21117.441 ^B	3	4.294	6.912	-1.58 ^b	
1637	$z^5G^o-e^5F$ (1136)	4-4	2.91	8250.3983	8248.1309	2.0	12120.627 ^A	-3	4.371	5.874	...	
		3-3	2.99	8234.5808	8232.3178	0.7	12143.909 ^A	-1	4.415	5.921	...	
		6-5	4.27	8222.6388	8220.3790	1.4	12161.546 ^A	-2	4.320	5.828	0.27 ^a	
		2-2	2.89	8209.9993	8207.7429	0.7	12180.269 ^A	-1	4.445	5.956	...	
		5-5	1.90	8181.2427	8178.9940	1.3	12223.082 ^A	-2	4.312	5.828	...	
		2-1	3.47	8087.3956	8085.1723	0.7	12364.920 ^A	-1	4.445	5.978	...	
		3-2	3.56	8048.2606	8046.0479	0.6	12425.045 ^A	-1	4.415	5.956	...	
		4-3	3.63	8001.1458	7998.9458	1.3	12498.210 ^A	-2	4.371	5.921	...	
		5-4	3.72	7939.3239	7937.1406	1.3	12595.531 ^A	-2	4.312	5.874	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1638	$z^5G^o - e^3F$ (1137)	2-3	1.04	7889.2569	7887.0871	-1.9	12675.465 ^B	3	4.445	6.017	...	
		4-4	2.28	7871.7757	7869.6106	0.6	12703.614 ^A	-1	4.371	5.946	-1.88 ^b	
		3-3	1.30	7739.7955	7737.6661	0.6	12920.238 ^A	-1	4.415	6.017	-2.75 ^b	
		2-2	1.71	7649.9470	7647.8418	-1.2	13071.986 ^A	2	4.445	6.066	...	
		5-4	3.78	7588.1072	7586.0187	0.6	13178.517 ^A	-1	4.312	5.946	0.15 ^c	
		4-3	3.37	7533.2189	7531.1451	1.1	13274.538 ^A	-2	4.371	6.017	...	
		3-2	2.87	7509.3335	7507.2663	0.0	13316.761 ^A	0	4.415	6.066	-0.84 ^c	
1639	$z^5G^o - e^5G$ (1140)	4-5	2.00	6473.9380	6472.1494	-2.1	15446.549 ^C	5	4.371	6.286	-3.02 ^c	
		6-6	2.18	6377.9627	6376.1999	-0.8	15678.988 ^C	2	4.320	6.264	...	
		5-6	2.18	6353.0287	6351.2726	-1.2	15740.524 ^B	3	4.312	6.264	...	
1640	$z^5G^o - g^5D$ (1142)	3-2	0.60	6083.3945	6081.7107	1.9	16438.191 ^B	-5	4.415	6.453	...	
		4-3	1.18	6055.7504	6054.0741	0.4	16513.230 ^A	-1	4.371	6.419	-2.31 ^b	
		5-4	1.28	6035.7064	6034.0355	0.0	16568.069 ^A	0	4.312	6.366	-2.42 ^b	
1641	$z^5G^o - g^5F$ (1143)	4-4	2.36	5513.7880	5512.2567	-1.8	18136.352 ^B	6	4.371	6.620	-1.42 ^b	
		6-5	3.32	5489.2708	5487.7460	0.6	18217.356 ^A	-2	4.320	6.579	...	
		3-3	2.39	5488.6697	5487.1451	-0.9	18219.351 ^B	3	4.415	6.674	-1.53 ^b	
		2-2	2.92	5434.4580	5432.9479	-0.3	18401.099 ^A	1	4.445	6.727	-1.04 ^b	
		2-1	2.11	5396.7184	5395.2184	0.9	18529.779 ^C	-3	4.445	6.743	-2.17 ^b	
		3-2	2.53	5363.1162	5361.6251	-0.3	18645.876 ^B	1	4.415	6.727	-1.43 ^b	
1642	$z^5G^o - h^5D$ (1144)	2-3	2.46	5653.0928	5651.5243	-1.0	17689.432 ^B	3	4.445	6.639	...	
		2-1	2.09	5471.6140	5470.0940	0.9	18276.143 ^B	-3	4.445	6.711	-1.81 ^b	
		4-3	3.26	5467.9152	5466.3962	0.0	18288.506 ^A	0	4.371	6.639	-0.63 ^b	
		3-2	3.18	5448.0967	5446.5829	0.3	18355.034 ^A	-1	4.415	6.691	...	
		5-4	2.23	5442.8510	5441.3387	-0.6	18372.724 ^B	2	4.312	6.590	-1.73 ^b	
1643	$z^5G^o - f^5P$	3-2	1.93	5568.8242	5567.2782	3.7	17957.112 ^C	-12	4.415	6.641	...	
		2-1	2.20	5534.4055	5532.8687	2.5	18068.788 ^D	-8	4.445	6.686	...	II
1644	$z^5G^o - f^5G$ (1145)	4-5	2.62	5548.0463	5546.5058	0.0	18024.363 ^A	0	4.371	6.606	-1.31 ^b	
		3-4	2.37	5507.4113	5505.8817	0.0	18157.351 ^B	0	4.415	6.666	...	
		2-3	2.09	5463.0676	5461.5499	0.3	18304.734 ^B	-1	4.445	6.715	-1.90 ^b	
		6-6	3.99	5456.9705	5455.4544	0.3	18325.186 ^A	-1	4.320	6.592	...	
		5-6	1.90	5438.7041	5437.1928	-3.3	18386.733 ^C	11	4.312	6.592	...	
		5-5	3.98	5405.6196	5404.1172	-0.6	18499.267 ^A	2	4.312	6.606	...	
		4-4	3.67	5402.0036	5400.5022	0.6	18511.650 ^A	-2	4.371	6.666	-0.16 ^b	
		2-2	3.14	5399.7803	5398.2794	0.0	18519.272 ^A	0	4.445	6.741	-0.67 ^b	
		3-3	3.39	5390.9777	5389.4792	0.3	18549.511 ^A	-1	4.415	6.715	-0.41 ^b	
1645	$z^5G^o - e^5H$ (1146)	6-7	4.46	5425.5759	5424.0682	0.3	18431.223 ^A	-1	4.320	6.605	0.52 ^b	
		6-6	2.18	5402.7706	5401.2689	2.0	18509.022 ^B	-7	4.320	6.615	-1.92 ^b	
		5-6	4.49	5384.8661	5383.3692	0.3	18570.564 ^A	-1	4.312	6.615	0.64 ^a	
		4-5	4.31	5371.4552	5369.9619	0.6	18616.929 ^A	-2	4.371	6.679	0.54 ^a	
		3-4	4.17	5368.9595	5367.4668	0.9	18625.583 ^D	-3	4.415	6.724	0.44 ^a	II
		2-3	4.00	5366.3632	5364.8713	0.0	18634.594 ^A	0	4.445	6.756	0.23 ^a	
		3-3	2.37	5296.7855	5295.3121	-1.1	18879.375 ^B	4	4.415	6.756	-1.69 ^b	
		4-4	2.32	5268.7358	5267.2699	0.3	18979.885 ^C	-1	4.371	6.724	-1.77 ^b	
1646	$z^5G^o - e^3G$ (1147)	4-5	2.70	5410.6373	5409.1336	0.3	18482.111 ^A	-1	4.371	6.663	-1.30 ^b	
		2-3	2.11	5398.7028	5397.2023	3.5	18522.968 ^B	-12	4.445	6.742	...	
		5-4	2.23	5185.6198	5184.1760	-0.8	19284.098 ^B	3	4.312	6.703	...	
1647	$z^5G^o - f^3D$ (1148)	3-3	2.10	5513.9339	5512.4026	0.3	18135.872 ^C	-1	4.415	6.664	...	
		3-2	2.23	5418.5391	5417.0332	-3.8	18455.159 ^B	13	4.415	6.703	-1.68 ^b	
		4-3	2.55	5408.2782	5406.7751	0.3	18490.173 ^B	-1	4.371	6.664	-1.72 ^b	
1648	$z^5G^o - e^3H$ (1149)	5-4	1.90	5057.4013	5055.9916	-1.8	19773.001 ^D	7	4.312	6.764	-2.01 ^b	
1649	$z^5G^o - f^3F$ (1150)	4-4	2.18	5147.7401	5146.3064	-1.1	19426.000 ^C	4	4.371	6.780	-2.03 ^b	
		3-3	1.95	5124.7080	5123.2804	0.8	19513.307 ^C	-3	4.415	6.834	...	
		3-2	2.12	5058.8936	5057.4836	4.1	19767.168 ^D	-16	4.415	6.866	...	I
		4-3	2.23	5033.3178	5031.9145	0.3	19867.611 ^C	-1	4.371	6.834	-1.67 ^b	
		5-4	2.37	5024.8989	5023.4978	0.0	19900.898 ^B	0	4.312	6.780	-1.71 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1650	$z^5G^o-4F6s^5F$	4-4	1.48	4703.9169	4702.6010	2.9	21258.879 ^C	-13	4.371	7.007	...	Ne
		6-5	2.73	4701.4731	4700.1579	-0.2	21269.929 ^D	1	4.320	6.957	...	
		5-4	2.64	4601.1312	4599.8425	1.7	21733.786 ^A	-8	4.312	7.007	...	
		2-1	2.00	4566.6911	4565.4115	0.2	21897.693 ^B	-1	4.445	7.160	...	
		3-2	2.08	4562.6928	4561.4143	0.4	21916.882 ^B	-2	4.415	7.132	...	
1651	$z^5G^o-s^6D5d^5D$	5-4	2.00	4667.4180	4666.1118	1.5	21425.122 ^C	-7	4.312	6.969	...	
1652	$z^5G^o-s^6D5d^5G$	6-5	2.31	4606.8781	4605.5878	0.2	21706.674 ^B	-1	4.320	7.011	...	
		4-3	2.26	4587.5164	4586.2313	0.4	21798.287 ^B	-2	4.371	7.074	...	
		5-4	2.11	4568.1468	4566.8668	1.3	21890.715 ^B	-6	4.312	7.026	...	
1653	$z^5G^o-s^6D5d^7D$	3-4	1.85	4798.3788	4797.0379	4.4	20840.372 ^C	-19	4.415	6.999	...	
		2-1	1.30	4728.5860	4727.2636	-3.6	21147.971 ^D	16	4.445	7.067	...	
		4-4	1.78	4718.1587	4716.8390	-3.8	21194.709 ^C	17	4.371	6.999	...	
1654	$z^5G^o-s^6D5d^5F$	3-2	1.78	4685.9083	4684.5971	1.1	21340.580 ^C	-5	4.415	7.061	...	
		4-3	2.23	4657.7610	4656.4573	5.0	21469.543 ^B	-23	4.371	7.033	...	
1655	$z^5G^o-4F5d^5F$	4-5	2.73	4285.6109	4284.4054	-2.9	23333.896 ^B	16	4.371	7.264	...	
		6-5	1.70	4211.0153	4209.8294	0.9	23747.242 ^D	-5	4.320	7.264	...	
1656	$z^5G^o-4F5d^5H$	6-7	3.20	4189.9119	4188.7316	0.4	23866.850 ^B	-2	4.320	7.279	...	
1657	$z^5G^o-4F5d^3G$	6-5	3.19	4172.2164	4171.0407	-3.5	23968.076 ^A	20	4.320	7.292	...	
1658	$z^3G^o-e^5F$ (1153)	4-4	2.30	8612.9773	8610.6120	1.5	11610.387 ^A	-2	4.434	5.874	...	
		5-5	2.69	8601.1924	8598.8302	0.7	11626.295 ^A	-1	4.386	5.828	-1.09 ^a	
		3-3	1.86	8564.4588	8562.1066	1.5	11676.161 ^B	-2	4.473	5.921	...	
		3-2	2.68	8363.0934	8360.7956	0.7	11957.298 ^A	-1	4.473	5.956	...	
		4-3	3.27	8341.6959	8339.4039	1.4	11987.970 ^A	-2	4.434	5.921	...	
1659	$z^3G^o-e^3F$ (1154)	5-4	3.67	8334.2056	8331.9157	1.4	11998.744 ^A	-2	4.386	5.874	...	
		3-4	1.61	8416.4004	8414.0882	1.4	11881.564 ^B	-2	4.473	5.946	...	
		4-4	3.22	8201.1762	8198.9221	1.3	12193.373 ^A	-2	4.434	5.946	...	
		3-3	2.85	8030.5224	8028.3145	1.3	12452.490 ^A	-2	4.473	6.017	...	
		5-4	3.71	7948.0326	7945.8469	0.6	12581.730 ^A	-1	4.386	5.946	...	
1660	$z^3G^o-e^7F$ (1155)	4-3	3.54	7834.3517	7832.1968	0.6	12764.298 ^A	-1	4.434	6.017	...	
		3-2	3.46	7782.6983	7780.5573	0.6	12849.014 ^A	-1	4.473	6.066	...	
		4-3	2.30	6501.4120	6499.6161	3.8	15381.274 ^C	-9	4.434	6.341	...	
1661	$z^3G^o-f^5D$ (1156)	5-4	2.18	6647.2028	6645.3677	2.7	15043.922 ^C	-6	4.386	6.251	...	
1662	$z^3G^o-e^7P$ (1157)	4-3	1.85	6736.8653	6735.0060	-1.4	14843.699 ^D	3	4.434	6.275	...	
		5-4	2.18	6624.2362	6622.4073	-0.9	15096.080 ^C	2	4.386	6.258	...	
1663	$z^3G^o-e^5G$	5-4	2.34	6410.1064	6408.3350	1.6	15600.365 ^B	-4	4.386	6.320	...	
1664	$z^3G^o-f^5F$	3-3	1.70	6441.3421	6439.5623	6.2	15524.715 ^D	-15	4.473	6.398	...	
		3-2	2.11	6399.7375	6397.9689	-0.4	15625.641 ^C	1	4.473	6.410	...	
		4-3	1.85	6314.5162	6312.7705	4.8	15836.526 ^C	-12	4.434	6.398	...	
1665	$z^3G^o-e^3D$ (1158)	4-3	2.83	6440.5377	6438.7581	0.4	15526.654 ^A	-1	4.434	6.359	...	
1666	$z^3G^o-g^5F$ (1159)	4-4	0.60	5673.4041	5671.8302	1.6	17626.102 ^B	-5	4.434	6.620	...	
		5-5	2.13	5655.4359	5653.8668	1.3	17682.103 ^A	-4	4.386	6.579	-1.64 ^b	
1667	$z^3G^o-h^5D$ (1160)	3-4	0.30	5856.2533	5854.6305	2.1	17075.764 ^C	-6	4.473	6.590	...	
		4-4	0.30	5751.2313	5749.6365	-0.7	17387.581 ^B	2	4.434	6.590	-2.94 ^b	
		3-3	1.00	5725.2602	5723.6724	1.3	17466.455 ^A	-4	4.473	6.639	...	
		5-4	2.45	5625.5831	5624.0220	0.0	17775.935 ^A	0	4.386	6.590	-1.48 ^b	
1668	$z^3G^o-f^5P$	4-3	0.90	5749.4325	5747.8382	2.0	17393.021 ^A	-6	4.434	6.591	...	
		3-2	0.30	5717.7579	5716.1721	1.3	17489.373 ^C	-4	4.473	6.641	...	
1669	$z^3G^o-f^5G$ (1161)	4-5	2.18	5709.6782	5708.0945	0.3	17514.122 ^A	-1	4.434	6.606	-1.57 ^b	
		3-4	1.74	5653.0375	5651.4690	0.0	17689.605 ^A	0	4.473	6.666	-2.00 ^b	
		5-6	2.02	5621.1554	5619.5954	-0.6	17789.937 ^A	2	4.386	6.592	-1.70 ^b	
		4-4	2.36	5555.1201	5553.5778	0.3	18001.411 ^B	-1	4.434	6.666	-1.41 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1670	$z^3G^o-e^5H$ (1162)	3-3	2.04	5530.4348	5528.8990	0.9	18081.761 ^C	-3	4.473	6.715	-2.02 ^b	
		5-4	2.43	5437.8068	5436.2958	0.3	18389.767 ^B	-1	4.386	6.666	-1.54 ^b	
		3-3	2.61	5431.3488	5429.8395	-2.4	18411.633 ^A	8	4.473	6.756	...	
		4-4	1.88	5414.2904	5412.7857	1.8	18469.641 ^C	-6	4.434	6.724	-1.89 ^b	
		5-5	2.54	5406.8527	5405.3499	-0.3	18495.048 ^B	1	4.386	6.679	-1.39 ^a	
1671	$z^3G^o-e^3G$ (1163)	4-5	2.75	5564.2512	5562.7065	0.6	17971.870 ^A	-2	4.434	6.663	...	
		3-4	2.26	5559.5257	5557.9822	-0.9	17987.146 ^B	3	4.473	6.703	-1.28 ^b	
		4-4	3.70	5464.7944	5463.2762	0.3	18298.950 ^A	-1	4.434	6.703	0.11 ^b	
		3-3	3.50	5464.4776	5462.9595	-0.3	18300.011 ^A	1	4.473	6.742	...	
		5-5	3.85	5446.5558	5445.0424	0.0	18360.227 ^A	0	4.386	6.663	-0.02 ^b	
1672	$z^3G^o-f^3D$ (1164)	5-4	2.68	5351.2255	5349.7376	-0.3	18687.308 ^A	1	4.386	6.703	-1.30 ^b	
		4-3	2.62	5561.7557	5560.2116	0.0	17979.934 ^A	0	4.434	6.664	-1.19 ^b	
		3-2	2.19	5559.4462	5557.9028	-1.5	17987.403 ^D	5	4.473	6.703	...	I
		5-6	4.35	5416.7047	5415.1993	0.0	18461.409 ^A	0	4.386	6.675	0.64 ^a	
		3-4	4.05	5412.4140	5410.9098	0.0	18476.044 ^A	0	4.473	6.764	0.40 ^a	
1673	$z^3G^o-e^3H$ (1165)	4-5	4.23	5405.6541	5404.1516	0.0	18499.149 ^A	0	4.434	6.728	0.52 ^a	
		4-4	2.55	5322.5882	5321.1080	0.0	18787.852 ^B	0	4.434	6.764	-0.95 ^a	
		5-5	1.95	5294.5022	5293.0294	-3.1	18887.517 ^C	11	4.386	6.728	-2.35 ^b	
		3-4	3.07	5375.2029	5373.7086	-0.6	18603.949 ^A	2	4.473	6.780	-0.86 ^b	
		4-4	2.33	5286.5992	5285.1286	0.8	18915.752 ^B	-3	4.434	6.780	-1.64 ^b	
1674	$z^3G^o-f^3F$ (1166)	3-3	2.42	5250.5665	5249.1054	0.0	19045.564 ^B	0	4.473	6.834	-1.48 ^b	
		5-4	2.37	5180.2429	5178.8006	-0.5	19304.114 ^B	2	4.386	6.780	-1.84 ^b	
		4-3	2.58	5165.9892	5164.5506	-1.3	19357.377 ^B	5	4.434	6.834	-1.36 ^b	
		4-3	2.28	4599.1596	4597.8714	-0.6	21743.103 ^B	3	4.434	7.130	...	
		5-4	2.02	4696.1731	4694.8593	0.2	21293.934 ^B	-1	4.386	7.026	...	
1677	$z^3G^o-s^6D5d^7D$	4-5	2.49	4839.2320	4837.8803	4.4	20664.436 ^D	-19	4.434	6.996	...	
1678	$z^3G^o-s^6D5d^7P$	4-4	2.20	4744.5244	4743.1978	-4.5	21076.928 ^D	20	4.434	7.048	...	
1679	$z^3G^o-s^6D5d^7G$	5-4	2.19	4592.0760	4590.7897	0.6	21776.643 ^C	-3	4.386	7.086	...	
1680	$z^3G^o-s^6D5d^5F$	5-4	1.70	4598.5392	4597.2512	0.6	21746.036 ^C	-3	4.386	7.082	...	
1681	$z^3G^o-4F6s^3F$	4-3	2.04	4661.7363	4660.4315	5.7	21451.235 ^D	-26	4.434	7.094	...	
		3-2	2.44	4605.8475	4604.5575	0.6	21711.531 ^B	-3	4.473	7.165	...	
1682	$z^3G^o-5D4p^2^7F$	3-2	1.48	4089.3585	4088.2045	4.3	24453.713 ^C	-26	4.473	7.505	...	
1683	$y^3F^o-d^8^3P$	2-2	1.86	29848.554	29840.414	36	3350.246 ^B	-4	4.652	5.067	...	
		2-1	2.02	27342.948	27335.491	0	3657.250 ^A	0	4.652	5.105	...	
		3-2	2.44	26963.895	26956.540	15	3708.663 ^A	-2	4.607	5.067	...	
1684	$y^3F^o-e^5F$ (1171)	3-4	2.24	9789.3288	9786.6450	1.9	10215.205 ^A	-2	4.607	5.874	...	
		2-3	1.73	9770.9943	9768.3155	1.9	10234.373 ^A	-2	4.652	5.921	...	
		4-5	1.04	9690.5582	9687.9012	4.7	10319.323 ^B	-5	4.548	5.828	...	
		2-2	1.92	9509.7632	9507.1551	1.8	10515.509 ^A	-2	4.652	5.956	...	
		3-3	2.42	9440.3853	9437.7961	1.8	10592.788 ^A	-2	4.607	5.921	...	
1685	$y^3F^o-e^3F$ (1172)	4-4	2.80	9352.9831	9350.4175	2.6	10691.776 ^A	-3	4.548	5.874	...	
		3-4	2.99	9260.8104	9258.2698	0.9	10798.191 ^A	-1	4.607	5.946	...	
		2-3	2.91	9082.0731	9079.5808	0.8	11010.702 ^A	-1	4.652	6.017	...	
		4-4	3.73	8869.3676	8866.9329	0.8	11274.761 ^A	-1	4.548	5.946	...	
		3-3	3.58	8795.7586	8793.3438	1.5	11369.116 ^A	-2	4.607	6.017	...	
1686	$y^3F^o-e^3D$ (1173)	2-2	3.48	8766.3732	8763.9664	0.0	11407.226 ^A	0	4.652	6.066	...	
		3-2	2.88	8499.3252	8496.9905	0.7	11765.640 ^A	-1	4.607	6.066	...	
		4-3	3.07	8441.8911	8439.5721	0.7	11845.687 ^A	-1	4.548	6.017	...	
		2-1	2.45	6887.6562	6885.7564	1.4	14518.727 ^B	-3	4.652	6.452	-1.38 ^b	
		3-2	2.75	6860.0421	6858.1498	1.4	14577.170 ^A	-3	4.607	6.415	-0.93 ^a	
1687	$y^3F^o-g^5D$ (1174)	4-3	3.11	6845.5444	6843.6560	0.5	14608.042 ^A	-1	4.548	6.359	-0.93 ^b	
		2-1	3.11	6805.8786	6804.0009	1.9	14693.180 ^A	-4	4.652	6.474	-1.67 ^b	
		3-2	3.60	6717.2372	6715.3832	1.4	14887.073 ^A	-3	4.607	6.453	-1.64 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1688	$y^3F^o-e^5P$	4-3	3.67	6629.3751	6627.5448	0.4	15084.378 ^A	-1	4.548	6.419	-1.68 ^b	
1689	$y^3F^o-g^5F$ (1175)	3-2	2.83	6709.2849	6707.4332	1.4	14904.718 ^A	-3	4.607	6.455	...	
		4-5	1.40	6161.0821	6159.3776	3.4	16230.915 ^B	-9	4.607	6.620	-1.97 ^b	
		3-3	2.11	6106.8214	6105.1314	3.4	16375.131 ^A	-9	4.548	6.579	-2.05 ^b	
		4-4	2.64	5999.4391	5997.7778	0.4	16668.225 ^A	-1	4.607	6.674	...	
		2-1	2.11	5985.3384	5983.6810	0.4	16707.493 ^A	-1	4.548	6.620	...	
		3-2	1.90	5929.4316	5927.7891	0.4	16865.023 ^A	-1	4.652	6.743	-1.09 ^b	
1690	$y^3F^o-h^5D$ (1176)	3-2	1.90	5849.7506	5848.1294	2.4	17094.746 ^A	-7	4.607	6.727	...	
		3-3	2.77	6103.8669	6102.1777	10.1	16383.057 ^A	-27	4.607	6.639	...	
		2-2	2.17	6080.6922	6079.0093	1.1	16445.496 ^A	-3	4.652	6.691	-1.12 ^b	
		2-1	1.11	6019.9662	6018.2995	0.0	16611.389 ^A	0	4.652	6.711	...	
		3-2	1.91	5950.9952	5949.3470	0.7	16803.912 ^A	-2	4.607	6.691	...	
		4-3	2.09	5931.3202	5929.6772	0.7	16859.653 ^A	-2	4.548	6.639	-1.41 ^b	
1691	$y^3F^o-f^5P$ (1177)	2-1	1.52	6096.0607	6094.3736	0.7	16404.036 ^A	-2	4.652	6.686	-1.94 ^b	
		3-2	1.83	6095.3313	6093.6444	1.5	16405.999 ^A	-4	4.607	6.641	-1.50 ^b	
1692	$y^3F^o-f^5G$ (1178)	4-5	3.36	6025.7262	6024.0580	0.0	16595.510 ^A	0	4.548	6.606	-0.12 ^b	
		3-4	2.97	6021.8364	6020.1692	0.0	16606.230 ^A	0	4.607	6.666	-0.27 ^b	
		2-3	2.47	6009.6241	6007.9601	0.4	16639.976 ^A	-1	4.652	6.715	...	
		3-3	1.45	5882.9101	5881.2801	0.3	16998.390 ^A	-1	4.607	6.715	-1.84 ^b	
		4-4	2.11	5853.8409	5852.2187	0.0	17082.801 ^A	0	4.548	6.666	-1.33 ^b	
		3-2	0.78	5809.5858	5807.9755	-0.7	17212.931 ^A	2	4.607	6.741	-2.47 ^b	
		4-3	1.63	5722.4852	5720.8982	11.1	17474.925 ^A	-34	4.548	6.715	...	
1693	$y^3F^o-e^5H$ (1179)	2-3	1.54	5892.8085	5891.1759	-0.3	16969.837 ^A	1	4.652	6.756	...	
		3-4	1.88	5856.6996	5855.0766	0.7	17074.463 ^A	-2	4.607	6.724	-1.76 ^b	
		4-5	2.65	5817.9862	5816.3735	0.3	17188.078 ^A	-1	4.548	6.679	-0.60 ^a	
		3-3	1.11	5770.9229	5769.3228	-0.3	17328.251 ^A	1	4.607	6.756	...	
		4-4	1.48	5697.6700	5696.0896	0.3	17551.034 ^A	-1	4.548	6.724	-1.99 ^b	
1694	$y^3F^o-e^3G$ (1180)	2-3	3.03	5931.8229	5930.1799	-0.7	16858.224 ^A	2	4.652	6.742	-0.23 ^b	
		3-4	2.87	5915.8401	5914.2013	0.0	16903.770 ^A	0	4.607	6.703	...	
		4-5	2.95	5863.9814	5862.3565	0.0	17053.260 ^A	0	4.548	6.663	...	
		3-3	2.31	5808.3349	5806.7249	-0.7	17216.638 ^A	2	4.607	6.742	-1.05 ^b	
		4-4	2.46	5753.6274	5752.0320	0.0	17380.340 ^A	0	4.548	6.703	-0.66 ^c	
1695	$y^3F^o-f^3D$ (1181)	2-2	0.30	6043.8985	6042.2254	-0.7	16545.612 ^B	2	4.652	6.703	...	
		3-3	0.30	6029.6353	6027.9660	0.0	16584.751 ^B	0	4.607	6.664	...	
		3-2	2.74	5915.7508	5914.1120	0.0	16904.025 ^A	0	4.607	6.703	...	
		2-1	2.46	5907.3085	5905.6720	0.3	16928.183 ^A	-1	4.652	6.751	-0.73 ^b	
		4-3	2.73	5861.2109	5859.5867	0.3	17061.321 ^A	-1	4.548	6.664	-0.30 ^c	
1696	$y^3F^o-e^3H$ (1182)	3-4	1.99	5749.5485	5747.9542	-0.3	17392.670 ^A	1	4.607	6.764	-1.43 ^b	
		4-5	2.86	5688.1081	5686.5302	0.0	17580.538 ^A	0	4.548	6.728	-0.45 ^a	
		4-4	2.66	5596.2086	5594.6553	-0.3	17869.241 ^A	1	4.548	6.764	-0.66 ^a	
1697	$y^3F^o-f^3F$ (1183)	3-4	2.89	5707.5752	5705.9922	-0.3	17520.575 ^A	1	4.607	6.780	-0.53 ^b	
		2-3	2.59	5680.5988	5679.0229	-1.0	17603.778 ^A	3	4.652	6.834	-0.92 ^b	
		3-3	3.22	5567.2496	5565.7040	-0.3	17962.191 ^A	1	4.607	6.834	...	
		4-4	3.24	5556.4378	5554.8951	0.6	17997.142 ^A	-2	4.548	6.780	-0.44 ^b	
1698	$y^3F^o-e^3P$ (1184)	2-2	1.23	5760.8595	5759.2621	-0.3	17358.521 ^A	1	4.652	6.804	-2.07 ^b	
		3-2	1.41	5644.3175	5642.7513	0.3	17716.934 ^A	-1	4.607	6.804	-2.12 ^b	
1699	$y^3F^o-4F6s^5F$	4-4	1.96	5042.8534	5041.4476	-1.0	19830.043 ^B	4	4.548	7.007	...	
		3-3	1.88	4914.5147	4913.1430	6.8	20347.889 ^C	-28	4.607	7.130	...	
1700	$y^3F^o-s^6D5d^5D$	3-3	2.64	5215.2930	5213.8414	-0.3	19174.378 ^C	1	4.607	6.985	...	
1701	$y^3F^o-i^5D$	3-4	1.85	4869.7901	4868.4303	-5.0	20534.766 ^C	21	4.607	7.153	...	
1702	$y^3F^o-g^5G$	3-3	2.34	4640.9594	4639.6602	6.5	21547.269 ^B	-30	4.607	7.279	...	
1703	$y^3F^o-s^6D7s^5D$	4-3	2.13	4529.7489	4528.4790	-0.2	22076.279 ^D	1	4.548	7.285	...	
1704	$y^3F^o-s^4D4d^3G$	3-4	1.48	4586.6247	4585.3399	0.4	21802.525 ^C	-2	4.607	7.311	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1705	$y^3F^o-s^4D4d^3D$	2-1	2.18	4663.1819	4661.8768	1.1	21444.585 ^C	-5	4.652	7.311	...	
1706	$y^3F^o-^4F5d^3G$	4-4	2.34	4440.8805	4439.6341	-0.4	22518.057 ^D	2	4.548	7.340	...	I
1707	$y^3F^o-58831^e$	4-3	2.11	4515.6824	4514.4163	1.0	22145.047 ^C	-5	4.548	7.294	...	
1708	$y^3F^o-58906^e$	3-4	2.04	4599.0335	4597.7454	-2.3	21743.699 ^B	11	4.607	7.303	...	
		4-4	2.04	4500.3986	4499.1365	0.6	22220.254 ^C	-3	4.548	7.303	...	
1709	$y^3F^o-s^4D4d^5S$	2-2	1.78	4672.7223	4671.4147	-0.2	21400.801 ^C	1	4.652	7.305	...	
1710	$y^3F^o-59390^e$	4-3	2.21	4404.4117	4403.1749	-0.6	22704.508 ^D	3	4.548	7.363	...	
1711	$y^5P^o-e^7D$	2-3	0.90	15931.025	15926.673	0	6277.060 ^A	0	4.607	5.385	...	
		3-4	1.51	15633.896	15629.626	2	6396.358 ^A	-1	4.558	5.351	...	
		2-1	1.08	15136.827	15132.692	18	6606.404 ^D	-8	4.607	5.426	...	I
1712	$y^5P^o-e^5D$	2-3	3.09	12652.202	12648.742	-2	7903.762 ^A	1	4.607	5.587	-1.14 ^a	
		3-4	3.46	12642.164	12638.706	0	7910.038 ^A	0	4.558	5.539	...	
		1-2	2.61	12619.377	12615.926	-2	7924.321 ^A	1	4.638	5.620	...	
		1-1	2.67	12346.291	12342.914	-2	8099.598 ^A	1	4.638	5.642	...	
		2-2	2.80	12230.459	12227.113	-1	8176.308 ^A	1	4.607	5.620	...	
		1-0	2.29	12216.675	12213.333	-4	8185.533 ^A	3	4.638	5.653	...	
		3-3	2.75	12056.382	12053.083	0	8294.362 ^A	0	4.558	5.587	-1.54 ^a	
		2-1	2.10	11973.776	11970.500	1	8351.584 ^A	-1	4.607	5.642	...	
		3-2	2.24	11672.836	11669.642	14	8566.898 ^A	-10	4.558	5.620	...	
1713	$y^5P^o-e^5F$	2-2	0.95	9191.9301	9189.4081	-1.7	10879.108 ^B	2	4.607	5.956	...	
1714	$y^5P^o-e^3F$	2-2	2.33	8495.5899	8493.2563	5.8	11770.813 ^B	-8	4.607	6.066	...	
1715	$y^5P^o-f^5D$ (1188)	2-3	1.69	7475.6121	7473.5539	-0.6	13376.831 ^A	1	4.607	6.265	-1.87 ^b	
		1-1	1.74	7423.6030	7421.5588	-1.1	13470.548 ^B	2	4.638	6.308	-1.80 ^b	
		3-4	1.60	7322.6995	7320.6826	1.6	13656.166 ^B	-3	4.558	6.251	-1.16 ^a	
		3-3	1.48	7263.5150	7261.5140	-4.7	13767.439 ^B	9	4.558	6.265	...	
1716	$y^5P^o-e^7P$ (1189)	2-3	2.43	7432.9034	7430.8567	0.0	13453.693 ^A	0	4.607	6.275	...	
		3-4	1.60	7294.8389	7292.8294	-0.5	13708.322 ^B	1	4.558	6.258	-1.10 ^a	
1717	$y^5P^o-e^7G$ (1191)	3-3	2.26	6805.7096	6803.8319	2.3	14693.545 ^B	-5	4.558	6.380	...	
1718	$y^5P^o-f^5F$ (1192)	3-3	3.48	6739.8470	6737.9870	1.8	14837.132 ^A	-4	4.558	6.398	-1.75 ^b	
		3-2	2.00	6694.3173	6692.4696	1.8	14938.043 ^D	-4	4.558	6.410	...	
1719	$y^5P^o-e^5S$ (1193)	3-2	1.70	6953.1629	6951.2455	-0.5	14381.944 ^B	1	4.558	6.341	...	
1720	$y^5P^o-e^3D$ (1194)	2-2	2.30	6857.6048	6855.7131	0.5	14582.351 ^B	-1	4.607	6.415	-1.82 ^b	
		1-1	2.26	6835.1111	6833.2255	-1.9	14630.340 ^B	4	4.638	6.452	-2.08 ^b	
		2-1	3.43	6719.3816	6717.5271	0.9	14882.322 ^A	-2	4.607	6.452	...	
		3-2	2.30	6678.7093	6676.8657	0.0	14972.953 ^B	0	4.558	6.415	-2.88 ^c	
1721	$y^5P^o-g^5D$ (1195)	3-4	3.16	6857.0537	6855.1621	0.9	14583.523 ^A	-2	4.558	6.366	-0.74 ^a	
		2-3	3.17	6843.2269	6841.3391	0.5	14612.989 ^D	-1	4.607	6.419	-0.75 ^b	II
		1-2	3.21	6830.4756	6828.5912	-0.5	14640.269 ^A	1	4.638	6.453	-0.92 ^b	
		1-1	3.86	6754.5711	6752.7071	0.5	14804.789 ^A	-1	4.638	6.474	-1.36 ^b	
		1-0	3.67	6735.0100	6733.1513	0.5	14847.788 ^A	-1	4.638	6.479	-1.58 ^b	
		2-2	3.61	6714.9002	6713.0469	0.9	14892.254 ^A	-2	4.607	6.453	...	
		3-3	3.78	6665.0724	6663.2325	0.9	15003.588 ^A	-2	4.558	6.419	...	
1722	$y^5P^o-e^7S$ (1196)	3-3	2.81	6755.3281	6753.4639	-0.5	14803.130 ^A	1	4.558	6.394	-2.29 ^b	
1723	$y^5P^o-e^5P$ (1197)	1-1	2.59	6844.5740	6842.6858	0.0	14610.113 ^A	0	4.638	6.449	-1.32 ^b	
		1-2	2.94	6822.2541	6820.3719	0.5	14657.912 ^A	-1	4.638	6.455	-1.32 ^b	
		2-3	3.30	6812.1422	6810.2628	0.5	14679.670 ^A	-1	4.607	6.427	-0.99 ^a	
		2-1	3.75	6728.5238	6726.6668	0.0	14862.101 ^A	0	4.607	6.449	-1.00 ^c	
		2-2	3.68	6706.9535	6705.1024	1.3	14909.899 ^A	-3	4.607	6.455	...	
		3-3	4.08	6635.5816	6633.7497	0.4	15070.269 ^A	-1	4.558	6.427	-0.80 ^a	
		3-2	3.82	6535.7346	6533.9294	0.9	15300.499 ^A	-2	4.558	6.455	-1.46 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1724	$y^5P^o - g^5F$ (1198)	3-4	0.00	6014.4237	6012.7584	2.9	16626.697 ^B	-8	4.558	6.620	...	
		2-3	0.48	5997.5748	5995.9141	0.0	16673.406 ^B	0	4.607	6.674	...	
		1-2	0.90	5935.4444	5933.8004	2.8	16847.938 ^B	-8	4.638	6.727	-2.23 ^b	
		1-1	0.30	5890.4495	5888.8175	-1.4	16976.633 ^B	4	4.638	6.743	...	
1725	$y^5P^o - h^5D$ (1199)	3-4	1.34	6101.9603	6100.2716	0.0	16388.176 ^A	0	4.558	6.590	...	
		3-3	1.20	5959.8790	5958.2284	0.4	16778.864 ^D	-1	4.558	6.639	...	I
		2-2	1.15	5949.1592	5947.5115	-1.8	16809.098 ^A	5	4.607	6.691	...	
		2-1	0.30	5891.0218	5889.3896	-0.7	16974.984 ^C	2	4.607	6.711	...	
		3-2	0.48	5814.0566	5812.4450	-0.7	17199.695 ^B	2	4.558	6.691	...	
1726	$y^5P^o - f^5P$ (1200)	3-3	1.56	6099.9329	6098.2447	0.4	16393.623 ^A	-1	4.558	6.591	-1.88 ^b	
		2-2	0.78	6093.4071	6091.7207	0.7	16411.180 ^B	-2	4.607	6.641	...	
		2-1	0.00	5963.8713	5962.2197	0.0	16767.632 ^C	0	4.607	6.686	...	
1727	$y^5P^o - f^5G$ (1201)	1-2	0.85	5894.0981	5892.4652	-1.4	16966.124 ^A	4	4.638	6.741	...	
		3-4	1.36	5881.6568	5880.0272	-0.7	17002.012 ^A	2	4.558	6.666	-1.94 ^b	
		2-3	1.26	5881.1165	5879.4870	-1.0	17003.574 ^D	3	4.607	6.715	-2.14 ^b	I
		3-3	0.70	5749.0474	5747.4532	-5.0	17394.186 ^B	15	4.558	6.715	...	
1728	$y^5P^o - f^3D$ (1203)	3-3	0.78	5889.0963	5887.4646	-0.7	16980.534 ^A	2	4.558	6.664	...	
		1-1	0.30	5868.6162	5866.9901	-0.7	17039.792 ^B	2	4.638	6.751	...	
		2-1	0.30	5783.0976	5781.4944	2.7	17291.771 ^D	-8	4.607	6.751	...	
		3-2	0.30	5780.4116	5778.8091	-0.3	17299.806 ^B	1	4.558	6.703	...	
1729	$y^5P^o - g^7D$ (1204)	2-3	0.30	5798.0379	5796.4306	-1.0	17247.214 ^B	3	4.607	6.745	...	
1730	$y^5P^o - s^6D6s^5D$	2-3	1.46	5647.4008	5645.8338	0.3	17707.261 ^A	-1	4.607	6.802	...	
		3-4	1.74	5645.5924	5644.0259	0.3	17712.933 ^A	-1	4.558	6.754	...	
		1-2	1.53	5641.8756	5640.3101	2.9	17724.602 ^B	-9	4.638	6.836	...	
		2-2	1.48	5562.7872	5561.2428	0.0	17976.600 ^C	0	4.607	6.836	...	
1731	$y^5P^o - e^3P$	2-1	2.38	5488.9198	5487.3951	0.0	18218.521 ^B	0	4.607	6.866	...	
1732	$y^5P^o - s^6D5d^5D$	3-3	2.11	5109.8270	5108.4034	6.3	19570.134 ^D	-24	4.558	6.985	...	
		3-2	2.02	5072.9251	5071.5113	0.5	19712.493 ^D	-2	4.558	7.002	...	
1733	$y^5P^o - s^6D5d^5G$	3-3	1.78	4928.8656	4927.4901	1.0	20288.644 ^D	-4	4.558	7.074	...	
1734	$y^5P^o - s^6D5d^5F$	3-3	2.02	5010.0361	5008.6390	-3.3	19959.936 ^D	13	4.558	7.033	...	
1735	$y^5P^o - ^4F6s^3F$	2-3	1.85	4984.7315	4983.3412	-0.5	20061.261 ^C	2	4.607	7.094	...	
1736	$y^5P^o - s^6D5d^5P$	1-2	1.81	5001.6055	5000.2107	-0.5	19993.580 ^C	2	4.638	7.117	...	
		2-3	1.70	4999.3541	4997.9598	-2.7	20002.584 ^D	11	4.607	7.087	...	
1737	$y^5P^o - s^4D4d^5F$	1-2	1.30	4738.6985	4737.3734	-2.2	21102.841 ^C	10	4.638	7.254	...	
		2-1	2.11	4715.6781	4714.3591	-0.4	21205.858 ^C	2	4.607	7.236	...	
		3-4	2.37	4683.4215	4682.1111	-0.9	21351.911 ^B	4	4.558	7.206	...	
		3-3	2.48	4680.5343	4679.2247	6.6	21365.082 ^D	-30	4.558	7.207	...	I
		3-2	2.11	4598.6682	4597.3802	-1.5	21745.426 ^B	7	4.558	7.254	...	
1738	$y^5P^o - i^5D$ (1206*)	2-3	2.15	4841.1205	4839.7682	-0.2	20656.375 ^D	1	4.607	7.168	...	
		3-4	2.12	4777.7126	4776.3772	1.4	20930.518 ^B	-6	4.558	7.153	...	
		3-3	2.22	4751.2762	4749.9477	-0.9	21046.977 ^B	4	4.558	7.168	-1.34 ^b	
		3-2	1.65	4715.3892	4714.0703	2.7	21207.157 ^C	-12	4.558	7.188	-1.54 ^b	
1739	$y^5P^o - s^4D4d^5P$	2-3	2.36	4689.4881	4688.1761	-0.4	21324.289 ^B	2	4.607	7.251	...	
		3-2	2.20	4662.8394	4661.5344	-0.9	21446.160 ^B	4	4.558	7.217	-1.27 ^b	
1740	$y^5P^o - s^4D4d^3D$	1-2	2.11	4636.0104	4634.7125	-1.1	21570.271 ^B	5	4.638	7.312	...	
		2-2	1.78	4582.4755	4581.1918	-2.3	21822.266 ^C	11	4.607	7.312	...	
		3-2	2.15	4501.8926	4500.6301	-5.1	22212.880 ^D	25	4.558	7.312	...	
1741	$y^5P^o - s^4D4d^5S$	1-2	2.24	4648.4803	4647.1791	0.0	21512.407 ^B	0	4.638	7.305	...	
1742	$y^5P^o - 59077^e$	1-1	1.90	4615.1960	4613.9036	-5.3	21667.552 ^C	25	4.638	7.324	...	
1743	$d^3F - w^5F^o$	4-5	0.60	13893.234	13889.436	2	7197.748 ^B	-1	4.593	5.485	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1744	$d^3F-x^3D^o$	3-2	1.26	12039.140	12035.846	3	8306.241 ^A	-2	4.584	5.614	...	
		2-1	1.32	11612.802	11609.624	-15	8611.186 ^A	11	4.580	5.648	...	
1745	$d^3F-y^3G^o$	4-5	2.97	12122.812	12119.495	-1	8248.911 ^D	1	4.593	5.616	...	II
		4-4	1.82	11929.663	11926.399	1	8382.466 ^A	-1	4.593	5.632	...	
		3-4	2.87	11830.382	11827.145	0	8452.812 ^A	0	4.584	5.632	...	
		3-3	1.69	11644.988	11641.801	0	8587.385 ^A	0	4.584	5.649	...	
		2-3	2.71	11597.724	11594.550	1	8622.381 ^A	-1	4.580	5.649	...	
1746	$d^3F-u^5D^o$ (1208)	4-4	1.93	10336.014	10333.182	-2	9674.909 ^D	2	4.593	5.792	...	I
		4-3	1.58	10310.279	10307.454	-1	9699.058 ^A	1	4.593	5.795	...	
		3-4	1.36	10261.410	10258.598	4	9745.249 ^A	-4	4.584	5.792	...	
		3-2	1.85	10087.840	10085.076	3	9912.924 ^A	-3	4.584	5.813	...	
		2-1	0.60	9768.8314	9766.1532	2.9	10236.639 ^B	-3	4.580	5.849	...	
1747	$d^3F-x^3F^o$ (1209)	4-4	1.89	10159.290	10156.506	-1	9843.207 ^A	1	4.593	5.813	...	
		3-4	1.11	10087.201	10084.437	1	9913.552 ^B	-1	4.584	5.813	...	
		3-3	2.12	9884.2339	9881.5244	1.0	10117.122 ^A	-1	4.584	5.839	...	
		2-3	1.51	9850.1603	9847.4601	1.0	10152.119 ^A	-1	4.580	5.839	...	
		2-2	2.10	9749.9926	9747.3196	0.0	10256.418 ^A	0	4.580	5.851	...	
1748	$d^3F-z^3H^o$ (1210)	4-4	1.81	9939.8174	9937.0929	2.0	10060.547 ^A	-2	4.593	5.840	...	
1749	$d^3F-w^3D^o$ (1211)	4-3	1.56	10028.829	10026.081	-1	9971.253 ^A	1	4.593	5.829	...	
		3-3	1.34	9958.5753	9955.8457	2.0	10041.597 ^A	-2	4.584	5.829	...	
		2-3	0.78	9923.9902	9921.2700	4.9	10076.592 ^B	-5	4.580	5.829	...	
		3-2	1.87	9841.8184	9839.1204	-24.2	10160.724 ^D	25	4.584	5.844	...	II
		2-2	0.90	9808.2535	9805.5647	-2.9	10195.495 ^B	3	4.580	5.844	...	
		2-1	1.56	9679.1985	9676.5446	1.9	10331.434 ^A	-2	4.580	5.861	...	
1750	$d^3F-w^5G^o$ (1212)	4-4	0.90	9483.9651	9481.3641	0.0	10544.113 ^B	0	4.593	5.900	...	
		3-3	2.60	9330.3984	9327.8389	-6.1	10717.656 ^A	7	4.584	5.913	...	
		3-2	0.90	9211.8685	9209.3411	2.5	10855.561 ^B	-3	4.584	5.930	...	
		2-2	1.71	9182.2626	9179.7432	0.0	10890.562 ^A	0	4.580	5.930	...	
1751	$d^3F-z^1G^o$	4-4	1.63	9609.1184	9606.4834	-0.9	10406.782 ^A	1	4.593	5.883	...	
		3-4	1.43	9544.5995	9541.9820	-0.9	10477.129 ^A	1	4.584	5.883	...	
1752	$d^3F-v^5F^o$ (1214)	4-4	1.11	9187.7463	9185.2254	0.0	10884.062 ^B	0	4.593	5.942	...	
1753	$d^3F-y^1G^o$ (1215)	3-4	1.40	8527.3715	8525.0294	2.2	11726.943 ^C	-3	4.584	6.038	...	
1754	$d^3F-w^3F^o$ (1217)	4-3	1.63	8198.7703	8196.5170	-0.7	12196.951 ^A	1	4.593	6.105	...	
		3-3	1.85	8151.7564	8149.5157	0.7	12267.295 ^A	-1	4.584	6.105	...	
		2-3	1.38	8128.5580	8126.3236	-6.6	12302.305 ^B	10	4.580	6.105	...	
		2-2	1.74	8004.7773	8002.5763	0.0	12492.540 ^A	0	4.580	6.129	...	
1755	$d^3F-v^3D^o$ (1218)	4-3	2.04	8271.9219	8269.6488	-0.7	12089.089 ^A	1	4.593	6.092	...	
		3-2	2.17	8151.9305	8149.6897	-0.7	12267.033 ^A	1	4.584	6.105	...	
		2-2	1.45	8128.7410	8126.5066	0.7	12302.028 ^A	-1	4.580	6.105	...	
		2-1	1.95	8092.5516	8090.3269	0.0	12357.042 ^A	0	4.580	6.112	...	
1756	$d^3F-v^3G^o$	4-5	1.11	8054.7965	8052.5820	2.6	12414.963 ^B	-4	4.593	6.132	...	
1757	$d^3F-Fsp3^1F^o$	3-3	1.45	7999.0158	7996.8164	-0.6	12501.538 ^A	1	4.584	6.134	...	
		2-3	0.60	7976.6845	7974.4911	-1.3	12536.537 ^C	2	4.580	6.134	...	
1758	$d^3F-v^3F^o$ (1221)	4-4	1.30	7013.2773	7011.3437	-0.5	14258.669 ^B	1	4.593	6.361	...	
1759	$d^3F-u^3G^o$ (1225)	4-4	2.80	6838.8928	6837.0061	0.0	14622.250 ^A	0	4.593	6.406	-1.81 ^b	
		3-4	3.17	6806.1492	6804.2713	0.0	14692.596 ^A	0	4.584	6.406	-1.92 ^b	
		4-3	2.67	6765.9749	6764.1079	0.5	14779.836 ^A	-1	4.593	6.425	...	
		3-3	3.29	6733.9233	6732.0649	-0.5	14850.184 ^A	1	4.584	6.425	-2.21 ^b	
		2-3	3.59	6718.0914	6716.2373	0.5	14885.180 ^A	-1	4.580	6.425	-1.92 ^b	
1760	$d^3F-Hsp3^1H^o$	4-5	2.51	6856.7142	6854.8228	-0.9	14584.245 ^B	2	4.593	6.401	-1.98 ^b	
1761	$d^3F-y^1D^o$ (1226)	3-2	2.72	6787.6133	6785.7405	-0.5	14732.719 ^A	1	4.584	6.411	...	
		2-2	2.51	6771.5278	6769.6593	-0.5	14767.716 ^B	1	4.580	6.411	-2.66 ^b	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1762	$d^3F-x^1D^o$ (1227)	2-2	3.48	6746.9632	6745.1013	0.9	14821.483 ^A	-2	4.580	6.417	-2.16 ^b	
1763	$d^3F-u^3D^o$ (1228)	4-3	3.04	6700.9914	6699.1418	0.0	14923.165 ^A	0	4.593	6.443	-2.19 ^b	
		3-3	2.99	6669.5524	6667.7113	0.4	14993.510 ^A	-1	4.584	6.443	-2.15 ^b	
		2-1	2.26	6421.8400	6420.0655	1.6	15571.861 ^B	-4	4.580	6.510	...	
1764	$d^3F-^2P4p^1P^o$	2-1	2.45	6561.5833	6559.7713	1.7	15240.224 ^B	-4	4.580	6.469	...	
1765	$d^3F-t^3D^o$ (1229)	4-3	3.20	6593.1334	6591.3129	0.0	15167.295 ^A	0	4.593	6.473	-2.07 ^b	
		3-2	3.09	6366.4548	6364.6951	0.4	15707.329 ^A	-1	4.584	6.532	...	
		2-2	2.11	6352.3006	6350.5448	-0.4	15742.328 ^C	1	4.580	6.532	...	
		2-1	1.70	6282.5112	6280.7741	3.9	15917.202 ^C	-10	4.580	6.553	...	
1766	$d^3F-^4F5p^3G^o$	3-4	0.60	5867.8593	5866.2334	0.0	17041.990 ^A	0	4.584	6.697	...	
1767	$d^3F-v^3P^o$ (1231)	2-1	0.70	6138.9845	6137.2859	3.4	16289.339 ^C	-9	4.580	6.599	...	
1768	$d^3F-^4F5p^5G^o$	3-4	0.48	5925.3908	5923.7494	-0.4	16876.524 ^B	1	4.584	6.677	...	
1769	$d^3F-^4F5p^3F^o$	2-3	0.30	5764.2041	5762.6058	-2.7	17348.449 ^B	8	4.580	6.731	...	
1770	$d^3F-^4F5p^5D^o$	4-4	1.34	6037.0090	6035.3378	-6.6	16564.494 ^D	18	4.593	6.647	...	I
		3-4	0.48	6011.4907	6009.8263	4.3	16634.809 ^D	-12	4.584	6.647	...	I
		2-3	0.30	5936.7740	5935.1295	-2.8	16844.165 ^B	8	4.580	6.668	...	
1771	$d^3F-Dsp3^5F^o$	4-5	1.23	5893.5114	5891.8786	0.7	16967.813 ^A	-2	4.593	6.697	...	
1772	$d^3F-x^3S^o$	2-1	0.00	5928.4659	5926.8237	-2.1	16867.770 ^C	6	4.580	6.671	...	
1773	$d^3F-^4F5p^3D^o$	4-3	0.00	5955.2469	5953.5975	0.0	16791.915 ^B	0	4.593	6.675	...	
1774	$d^3F-Dsp3^5D^o$	2-3	0.00	5899.3869	5897.7525	6.6	16950.914 ^C	-19	4.580	6.681	...	
		4-4	0.30	5795.2853	5793.6787	-0.7	17255.406 ^B	2	4.593	6.732	...	
		3-4	0.48	5771.7566	5770.1563	0.7	17325.748 ^B	-2	4.584	6.732	...	
1775	$d^3F-t^3G^o$ (1234)	4-5	1.60	5904.1092	5902.4736	0.3	16937.356 ^A	-1	4.593	6.693	-1.81 ^b	
		4-4	1.30	5816.8301	5815.2178	-5.4	17191.494 ^D	16	4.593	6.724	...	I
		3-4	1.28	5793.1299	5791.5239	-0.7	17261.826 ^A	2	4.584	6.724	...	
		3-3	0.30	5673.8381	5672.2640	1.9	17624.754 ^B	-6	4.584	6.769	-2.80 ^b	
		2-3	0.85	5662.5927	5661.0217	0.6	17659.755 ^B	-2	4.580	6.769	-2.43 ^b	
1776	$d^3F-t^5P^o$	4-3	0.00	5896.6509	5895.0173	0.7	16958.779 ^B	-2	4.593	6.696	...	
1777	$d^3F-Hsp1^3G^o$	4-5	2.08	4768.1197	4766.7868	-0.7	20972.628 ^C	3	4.593	7.193	...	
		3-4	2.10	4681.8603	4680.5503	-1.8	21359.031 ^D	8	4.584	7.232	...	
		2-3	2.14	4616.8555	4615.5626	-2.6	21659.764 ^B	12	4.580	7.265	...	
1778	$y^3D^o-d^8^3P$	1-1	3.38	45815.320	45802.830	0	2182.676 ^A	0	4.835	5.105	...	
		2-2	3.45	45591.922	45579.493	21	2193.371 ^A	-1	4.795	5.067	...	
		1-0	3.55	44667.404	44655.227	0	2238.769 ^A	0	4.835	5.112	...	
		2-1	4.01	39994.064	39983.161	16	2500.371 ^A	-1	4.795	5.105	...	
		3-2	4.34	37091.217	37081.104	0	2696.056 ^D	0	4.733	5.067	...	II
1779	$y^3D^o-e^5D$	2-2	1.08	15024.415	15020.310	7	6655.833 ^A	-3	4.795	5.620	...	
		2-1	0.30	14638.911	14634.911	6	6831.109 ^B	-3	4.795	5.642	...	
		3-3	0.90	14522.275	14518.307	2	6885.973 ^D	-1	4.733	5.587	...	II
		3-2	0.85	13969.352	13965.534	-18	7158.528 ^B	9	4.733	5.620	...	
1780	$y^3D^o-e^5F$ (1246)	1-2	1.75	11060.802	11057.774	1	9040.935 ^A	-1	4.835	5.956	...	
		2-3	2.29	11016.253	11013.237	2	9077.496 ^A	-2	4.795	5.921	...	
		3-4	2.83	10866.496	10863.520	2	9202.598 ^A	-2	4.733	5.874	...	
		2-2	1.32	10685.320	10682.393	0	9358.634 ^A	0	4.795	5.956	...	
		3-3	1.98	10438.216	10435.356	1	9580.181 ^A	-1	4.733	5.921	...	
1781	$y^3D^o-e^3F$ (1247)	3-4	3.88	10219.114	10216.314	1	9785.584 ^A	-1	4.733	5.946	...	
		2-3	3.68	10148.344	10145.563	2	9853.824 ^A	-2	4.795	6.017	...	
		1-2	3.54	10067.804	10065.045	-1	9932.652 ^A	1	4.835	6.066	...	
		2-2	3.05	9755.7663	9753.0917	1.0	10250.348 ^A	-1	4.795	6.066	...	
		3-3	3.21	9655.7633	9653.1158	0.9	10356.509 ^A	-1	4.733	6.017	...	
		3-2	1.94	9299.7018	9297.1506	-0.9	10753.033 ^A	1	4.733	6.066	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	σR^4 (mÅ)	σ^5 (cm ⁻¹)	σR^6 (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl ⁸
1782	$y^3D^o - e^3D$ (1250)	2-3	1.87	7926.3302	7924.1504	0.6	12616.179 ^A	-1	4.795	6.359	...	...
		1-2	1.85	7846.7172	7844.5589	0.0	12744.183 ^A	0	4.835	6.415	-1.81 ^b	...
		1-1	2.19	7666.2683	7664.1587	0.0	13044.156 ^A	0	4.835	6.452	...	...
		2-2	2.60	7655.8664	7653.7596	0.6	13061.879 ^A	-1	4.795	6.415	-0.89 ^a	...
		3-3	2.95	7622.6106	7620.5128	0.0	13118.865 ^A	0	4.733	6.359	...	...
		2-1	1.83	7483.9930	7481.9326	1.1	13361.851 ^A	-2	4.795	6.452	-1.80 ^b	...
1783	$y^3D^o - g^5D$ (1251)	1-2	1.36	7660.4379	7658.3299	1.2	13054.084 ^B	-2	4.835	6.453	...	...
		2-3	1.41	7637.9502	7635.8482	0.0	13092.518 ^B	0	4.795	6.419	...	...
		1-1	1.83	7565.0931	7563.0108	0.6	13218.608 ^A	-1	4.835	6.474	...	...
		2-2	1.90	7478.4348	7476.3759	1.1	13371.782 ^A	-2	4.795	6.453	-1.68 ^b	...
1784	$y^3D^o - e^5P$ (1252)	1-1	0.90	7678.1787	7676.0658	6.5	13023.922 ^B	-11	4.835	6.449	...	...
		2-2	1.18	7468.5762	7466.5199	-1.7	13389.433 ^B	3	4.795	6.455	...	...
1785	$y^3D^o - g^5F$ (1253)	2-3	3.94	6599.3833	6597.5611	1.3	15152.931 ^A	-3	4.795	6.674	-1.07 ^b	...
		3-4	4.66	6571.0301	6569.2155	1.3	15218.314 ^A	-3	4.733	6.620	-0.42 ^b	...
		1-1	3.76	6497.5371	6495.7422	0.4	15390.447 ^A	-1	4.835	6.743	-0.94 ^b	...
		2-2	3.01	6418.7044	6416.9307	-2.5	15579.468 ^D	6	4.795	6.727	...	...
		3-3	2.90	6387.4838	6385.7185	0.8	15655.617 ^A	-2	4.733	6.674	-1.91 ^b	...
		2-1	3.38	6366.1253	6364.3657	1.2	15708.142 ^A	-3	4.795	6.743	-1.43 ^b	...
1786	$y^3D^o - h^5D$ (1254)	3-4	2.00	6675.6570	6673.8143	-4.5	14979.799 ^C	10	4.733	6.590	...	...
		1-1	3.09	6606.4131	6604.5890	3.1	15136.807 ^A	-7	4.835	6.711	...	...
		3-3	2.76	6505.9807	6504.1835	1.3	15370.473 ^A	-3	4.733	6.639	...	...
		3-2	3.30	6332.6001	6330.8495	1.6	15791.302 ^A	-4	4.733	6.691	-1.74 ^b	...
1787	$y^3D^o - f^5P$ (1255)	2-2	3.45	6715.5983	6713.7448	1.8	14890.706 ^A	-4	4.795	6.641	-1.60 ^b	...
		2-1	3.23	6558.5993	6556.7880	0.4	15247.158 ^A	-1	4.795	6.686	...	...
		3-2	3.54	6496.2944	6494.4999	1.3	15393.391 ^A	-3	4.733	6.641	...	...
1788	$y^3D^o - f^5G$ (1256)	3-4	2.62	6412.8799	6411.1078	1.6	15593.618 ^B	-4	4.733	6.666	...	...
		2-2	1.70	6370.3953	6368.6346	9.3	15697.613 ^D	-23	4.795	6.741	...	...
		3-3	1.70	6255.5608	6253.8309	2.3	15985.777 ^D	-6	4.733	6.715	-1.66 ^b	...
1789	$y^3D^o - e^3G$	2-3	2.26	6368.8807	6367.1204	-1.2	15701.346 ^B	3	4.795	6.742	-2.33 ^c	...
		3-4	2.00	6292.8100	6291.0701	4.0	15891.152 ^C	-10	4.733	6.703	...	...
		3-3	1.43	6171.3051	6169.5978	0.0	16204.028 ^B	0	4.733	6.742	...	...
1790	$y^3D^o - f^3D$ (1258)	2-3	3.60	6635.9392	6634.1071	1.3	15069.457 ^A	-3	4.795	6.664	-1.43 ^b	...
		1-2	3.54	6635.2444	6633.4125	0.4	15071.035 ^A	-1	4.835	6.703	-1.49 ^b	...
		2-2	4.27	6498.2616	6496.4666	0.4	15388.731 ^A	-1	4.795	6.703	-0.57 ^b	...
		1-1	4.01	6470.9808	6469.1930	0.8	15453.608 ^A	-2	4.835	6.751	-0.77 ^b	...
		3-3	4.56	6421.7241	6419.9496	0.8	15572.142 ^A	-2	4.733	6.664	-0.24 ^b	...
		2-1	3.58	6340.6302	6338.8775	1.2	15771.303 ^A	-3	4.795	6.751	-1.06 ^b	...
		3-2	3.25	6292.7054	6290.9656	0.4	15891.416 ^A	-1	4.733	6.703	...	...
1791	$y^3D^o - e^3H$	3-4	1.85	6104.9834	6103.2939	0.4	16380.061 ^A	-1	4.733	6.764	-1.12 ^a	...
1792	$y^3D^o - s^6D6s^5D$	2-1	0.70	6014.1028	6012.4377	0.7	16627.584 ^A	-2	4.795	6.857	...	...
1793	$y^3D^o - f^3F$ (1259)	1-2	2.77	6103.8669	6102.1777	6.0	16383.057 ^D	-16	4.835	6.866	...	...
		2-3	2.75	6080.1739	6078.4911	-0.4	16446.898 ^A	1	4.795	6.834	...	...
		3-4	2.74	6057.6815	6056.0047	-0.4	16507.966 ^A	1	4.733	6.780	-0.46 ^b	...
		3-3	1.36	5899.8498	5898.2153	-0.7	16949.584 ^A	2	4.733	6.834	-1.83 ^b	...
1794	$y^3D^o - e^3P$ (1260)	1-2	2.30	6295.6664	6293.9257	1.2	15883.942 ^B	-3	4.835	6.804	...	...
		2-2	2.61	6172.2147	6170.5071	0.8	16201.640 ^A	-2	4.795	6.804	-0.44 ^b	...
		1-1	2.41	6104.8745	6103.1851	0.0	16380.353 ^A	0	4.835	6.866	...	...
		2-1	2.56	5988.7232	5987.0649	-0.4	16698.050 ^A	1	4.795	6.866	-0.15 ^c	...
		3-2	2.84	5986.4728	5984.8151	-0.4	16704.327 ^A	1	4.733	6.804	0.17 ^c	...
		1-0	2.41	5977.0016	5975.3464	-3.6	16730.797 ^D	10	4.835	6.909	...	...
1795	$y^3D^o - s^4D4d^3G$	3-4	2.24	4810.0240	4808.6800	0.5	20789.917 ^B	-2	4.733	7.311	...	...
1796	$y^3D^o - s^4D4d^3D$	1-2	1.90	5003.9764	5002.5809	-5.5	19984.107 ^D	22	4.835	7.312	...	...
		2-2	2.00	4925.6731	4924.2984	-2.9	20301.794 ^D	12	4.795	7.312	...	...
		3-3	2.18	4876.3918	4875.0302	-0.2	20506.966 ^B	1	4.733	7.275	...	...

II

II

I

I

I

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1797	$y^3D^o-^4F5d^3G$	3-4	2.38	4755.3688	4754.0393	2.9	21028.863 ^C	-13	4.733	7.340	...	
1798	$y^3D^o-59077^e$	2-1	1.30	4902.1912	4900.8228	0.5	20399.041 ^D	-2	4.795	7.324	...	
1799	$y^3D^o-s^4D4d^3S$	1-1	1.48	4960.5817	4959.1978	-0.2	20158.926 ^D	1	4.835	7.334	...	
1800	$x^5D^o-e^5D$	3-4	2.70	21244.263	21238.466	0	4707.153 ^A	0	4.955	5.539	...	
		2-3	2.78	20703.963	20698.313	0	4829.993 ^A	0	4.988	5.587	-1.05 ^a	
		1-2	2.71	20286.621	20281.085	0	4929.357 ^A	0	5.009	5.620	...	
		0-1	2.61	19928.782	19923.343	-4	5017.868 ^A	1	5.020	5.642	...	
		4-4	3.50	19797.268	19791.864	-4	5051.202 ^A	1	4.913	5.539	...	
		3-3	3.14	19640.670	19635.309	-4	5091.476 ^A	1	4.955	5.587	-0.68 ^a	
		2-2	2.74	19598.086	19592.737	-4	5102.539 ^A	1	4.988	5.620	...	
		1-1	2.00	19590.043	19584.696	-4	5104.634 ^A	1	5.009	5.642	...	
		1-0	2.49	19265.706	19260.448	-7	5190.570 ^A	2	5.009	5.653	...	
		2-1	2.78	18947.231	18942.059	-4	5277.816 ^A	1	4.988	5.642	...	
		3-2	2.64	18642.727	18637.638	-3	5364.022 ^A	1	4.955	5.620	...	
		4-3	2.65	18397.483	18392.461	-3	5435.526 ^A	1	4.913	5.587	-1.09 ^a	
1801	$x^5D^o-e^5F$	4-5	3.07	13550.682	13546.978	0	7379.702 ^A	0	4.913	5.828	...	
		3-4	2.79	13498.736	13495.045	0	7408.101 ^A	0	4.955	5.874	...	
		2-3	2.56	13290.447	13286.814	-2	7524.201 ^A	1	4.988	5.921	...	
		1-2	2.33	13102.459	13098.876	0	7632.155 ^A	0	5.009	5.956	...	
		0-1	2.04	12936.543	12933.006	0	7730.040 ^A	0	5.020	5.978	...	
		4-4	2.43	12899.647	12896.119	0	7752.150 ^A	0	4.913	5.874	...	
		3-3	2.36	12844.086	12840.574	-2	7785.684 ^A	1	4.955	5.921	...	
		2-2	2.31	12811.748	12808.244	0	7805.336 ^A	0	4.988	5.956	...	
		1-1	2.09	12792.948	12789.450	0	7816.806 ^A	0	5.009	5.978	...	
		2-1	1.23	12515.671	12512.247	6	7989.983 ^A	-4	4.988	5.978	...	
		4-3	1.93	12300.522	12297.157	-6	8129.736 ^A	4	4.913	5.921	...	
1802	$x^5D^o-e^3F$	3-4	2.20	12513.942	12510.519	-2	7991.087 ^A	1	4.955	5.946	...	
		2-3	1.72	12047.423	12044.127	-1	8300.530 ^A	1	4.988	6.017	...	
		1-2	2.05	11731.774	11728.563	14	8523.860 ^A	-10	5.009	6.066	...	
		3-3	1.04	11679.492	11676.296	-5	8562.016 ^A	4	4.955	6.017	...	
1803	$x^5D^o-e^7F$ (1261)	2-3	2.31	9159.5952	9157.0820	-1.7	10917.513 ^A	2	4.988	6.341	...	
		1-2	1.26	9152.0355	9149.5244	1.7	10926.531 ^A	-2	5.009	6.364	...	
		2-2	2.19	9009.2363	9006.7637	-3.2	11099.720 ^D	4	4.988	6.364	...	I
		3-3	1.78	8945.3512	8942.8959	2.4	11178.991 ^B	-3	4.955	6.341	...	
1804	$x^5D^o-f^7D$ (1262)	0-1	1.00	9472.5477	9469.9498	0.0	10556.822 ^A	0	5.020	6.329	...	
		2-3	1.97	9406.9112	9404.3310	-2.7	10630.482 ^A	3	4.988	6.306	...	
		4-5	1.18	9300.5070	9297.9557	0.9	10752.102 ^B	-1	4.913	6.246	...	
		2-2	1.15	9287.3742	9284.8264	2.6	10767.306 ^A	-3	4.988	6.323	...	
		2-1	1.93	9244.9040	9242.3677	0.9	10816.770 ^A	-1	4.988	6.329	...	
		3-4	1.60	9226.6729	9224.1415	0.9	10838.143 ^A	-1	4.955	6.299	...	
		3-3	2.12	9181.0798	9178.5608	-1.7	10891.965 ^A	2	4.955	6.306	...	
		3-2	0.70	9067.1778	9064.6896	1.6	11028.790 ^B	-2	4.955	6.323	...	
		4-4	3.10	8942.7857	8940.3311	-4.0	11182.198 ^B	5	4.913	6.299	...	
1805	$x^5D^o-f^5D$ (1263)	1-2	1.30	9714.3014	9711.6380	0.0	10294.101 ^A	0	5.009	6.286	...	
		0-1	1.62	9625.7351	9623.0956	0.9	10388.817 ^A	-1	5.020	6.308	...	
		2-2	1.92	9553.5766	9550.9568	-0.9	10467.284 ^A	1	4.988	6.286	...	
		1-1	1.34	9546.0090	9543.3912	0.9	10475.582 ^A	-1	5.009	6.308	...	
		3-3	2.40	9465.6248	9463.0287	0.9	10564.543 ^A	-1	4.955	6.265	...	
		1-0	2.05	9454.9290	9452.3359	0.0	10576.494 ^A	0	5.009	6.321	...	
		2-1	2.37	9390.7595	9388.1837	0.0	10648.766 ^A	0	4.988	6.308	...	
		3-2	2.29	9320.7356	9318.1787	-0.9	10728.767 ^A	1	4.955	6.286	...	
		4-4	2.60	9261.5463	9259.0055	0.0	10797.333 ^A	0	4.913	6.251	-0.75 ^a	
		4-3	2.11	9167.0867	9164.5715	0.8	10908.591 ^A	-1	4.913	6.265	...	
1806	$x^5D^o-e^7P$ (1264)	2-2	0.85	9407.3501	9404.7698	4.4	10629.986 ^B	-5	4.988	6.306	...	
		3-3	2.43	9397.2536	9394.6760	0.0	10641.407 ^A	0	4.955	6.275	...	
		4-4	2.53	9217.0265	9214.4977	-1.7	10849.486 ^D	2	4.913	6.258	...	II
		3-2	1.20	9181.4912	9178.9720	-3.4	10891.477 ^A	4	4.955	6.306	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1807	$x^5D^\circ - e^5G$ (1265)	4-3	2.20	9102.9440	9100.4461	0.0	10985.457 ^A	0	4.913	6.275	...	II
		1-2	1.74	9119.4072	9116.9049	0.8	10965.625 ^A	-1	5.009	6.369	...	
		2-3	1.83	9101.1023	9098.6049	-0.8	10987.680 ^A	1	4.988	6.350	...	
		3-4	2.58	9082.8798	9080.3874	1.6	11009.724 ^D	-2	4.955	6.320	...	
1808	$x^5D^\circ - e^7G$ (1266)	4-5	3.05	9026.8464	9024.3691	0.0	11078.066 ^A	0	4.913	6.286	...	Ne
		0-1	1.46	9028.9198	9026.4420	-4.1	11075.522 ^D	5	5.020	6.393	...	
		2-3	1.45	8905.3690	8902.9245	0.0	11229.181 ^B	0	4.988	6.380	...	
		3-4	1.98	8798.8992	8796.4836	-0.8	11365.058 ^A	1	4.955	6.365	...	
		4-5	2.42	8618.6464	8616.2796	-1.5	11602.750 ^A	2	4.913	6.351	...	
1809	$x^5D^\circ - f^5F$ (1267)	4-4	2.09	8540.3609	8538.0152	0.0	11709.107 ^A	0	4.913	6.365	...	II
		0-1	2.23	8878.4612	8876.0241	0.0	11263.213 ^A	0	5.020	6.417	...	
		1-2	2.54	8849.1699	8846.7407	0.8	11300.495 ^A	-1	5.009	6.410	...	
		1-1	2.23	8810.5898	8808.1710	0.8	11349.978 ^A	-1	5.009	6.417	...	
		2-3	2.63	8792.9357	8790.5217	0.8	11372.766 ^A	-1	4.988	6.398	-0.59 ^a	
		2-2	2.52	8715.5965	8713.2034	-5.3	11473.684 ^A	7	4.988	6.410	...	
		4-5	3.09	8712.7838	8710.3915	0.0	11477.388 ^A	0	4.913	6.336	...	
		3-4	2.95	8701.8433	8699.4540	-0.8	11491.818 ^A	1	4.955	6.380	-0.38 ^a	
		3-3	2.40	8595.3113	8592.9507	-0.7	11634.250 ^A	1	4.955	6.398	...	
1810	$x^5D^\circ - e^5S$ (1268)	4-4	1.72	8448.8895	8446.5685	-6.4	11835.875 ^B	9	4.913	6.380	...	II
		1-2	1.15	9307.1809	9304.6277	-0.9	10744.392 ^A	1	5.009	6.341	...	
1811	$x^5D^\circ - e^3D$ (1269)	2-3	1.66	9039.2359	9036.7552	0.8	11062.882 ^A	-1	4.988	6.359	...	II
		3-3	1.48	8830.5117	8828.0876	-3.9	11324.372 ^B	5	4.955	6.359	...	
		1-2	1.96	8821.9106	8819.4888	-8.6	11335.413 ^B	11	5.009	6.415	...	
		0-1	1.34	8659.0560	8656.6782	3.7	11548.603 ^C	-5	5.020	6.452	...	
		4-3	1.20	8570.1443	8567.7905	0.7	11668.415 ^C	-1	4.913	6.359	...	
		3-2	1.65	8496.1298	8493.7961	1.4	11770.065 ^D	-2	4.955	6.415	...	
1812	$x^5D^\circ - g^5D$ (1270)	2-1	1.26	8468.4388	8466.1126	2.9	11808.552 ^C	-4	4.988	6.452	...	II
		3-4	2.16	8786.8528	8784.4405	0.0	11380.639 ^A	0	4.955	6.366	...	
		2-3	2.02	8666.0948	8663.7151	-1.5	11539.223 ^B	2	4.988	6.419	...	
		1-2	1.43	8587.1539	8584.7955	1.5	11645.302 ^C	-2	5.009	6.453	...	
		0-1	1.78	8530.1960	8527.8531	0.7	11723.060 ^B	-1	5.020	6.474	...	
		4-4	2.70	8529.0116	8526.6690	-0.7	11724.688 ^A	1	4.913	6.366	-0.76 ^a	
		3-3	2.32	8474.0721	8471.7444	1.4	11800.702 ^A	-2	4.955	6.419	...	
		1-1	1.40	8467.5245	8465.1985	0.0	11809.827 ^C	0	5.009	6.474	...	
		1-0	1.74	8436.8108	8434.4931	4.3	11852.820 ^B	-6	5.009	6.479	...	
		2-1	1.78	8345.1501	8342.8571	0.0	11983.008 ^A	0	4.988	6.474	...	
		3-2	2.24	8278.1669	8275.8921	0.0	12079.969 ^A	0	4.955	6.453	...	
		4-3	2.00	8234.0085	8231.7456	0.0	12144.753 ^A	0	4.913	6.419	...	
1813	$x^5D^\circ - e^7S$ (1271)	2-3	1.51	8819.3081	8816.8869	2.3	11338.758 ^B	-3	4.988	6.394	...	
1814	$x^5D^\circ - e^5P$ (1272)	0-1	1.38	8674.2411	8671.8592	-0.8	11528.386 ^B	1	5.020	6.449	...	
		2-3	2.26	8616.3072	8613.9410	0.7	11605.900 ^A	-1	4.988	6.427	...	
		1-1	1.91	8609.4454	8607.0810	0.0	11615.150 ^B	0	5.009	6.449	...	
		1-2	2.21	8574.1601	8571.8052	0.0	11662.950 ^A	0	5.009	6.455	...	
		2-1	1.94	8482.9615	8480.6313	-2.2	11788.336 ^B	3	4.988	6.449	...	
		2-2	2.27	8448.7053	8446.3844	0.0	11836.133 ^A	0	4.988	6.455	...	
		3-3	2.29	8426.4555	8424.1406	-1.4	11867.386 ^A	2	4.955	6.427	...	
		3-2	1.66	8266.0983	8263.8267	6.8	12097.606 ^A	-10	4.955	6.455	...	
1815	$x^5D^\circ - g^5F$ (1273)	4-3	2.50	8189.0464	8186.7957	0.0	12211.434 ^A	0	4.913	6.427	...	
		3-4	2.28	7449.4449	7447.3938	0.0	13423.819 ^A	0	4.955	6.620	...	
1816	$x^5D^\circ - h^5D$ (1274)	4-5	2.70	7442.9616	7440.9122	0.0	13435.512 ^A	0	4.913	6.579	-0.53 ^c	
		3-4	1.79	7584.2094	7582.1219	0.6	13185.290 ^A	-1	4.955	6.590	-1.75 ^b	
1817	$x^5D^\circ - f^5P$ (1275)	4-4	2.69	7391.3441	7389.3086	0.0	13529.339 ^B	0	4.913	6.590	...	
		1-2	0.70	7596.3414	7594.2506	-0.6	13164.232 ^B	1	5.009	6.641	...	
		4-3	3.03	7388.3679	7386.3332	-0.5	13534.789 ^A	1	4.913	6.591	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1818	$x^5D^o-f^3D$ (1278)	2-3	2.24	7398.5445	7396.5071	-4.9	13516.172 ^C	9	4.988	6.664	-1.64 ^b	
1819	$x^5D^o-s^6D6s^5D$	1-2	1.85	6789.0354	6787.1622	7.4	14729.633 ^D	-16	5.009	6.836	...	II
		4-4	2.74	6732.1503	6730.2924	0.9	14854.095 ^A	-2	4.913	6.754	...	
		3-3	2.40	6713.6740	6711.8211	0.9	14894.974 ^B	-2	4.955	6.802	...	
		2-1	2.11	6633.8112	6631.9797	-0.9	15074.291 ^B	2	4.988	6.857	...	
		3-2	2.11	6594.4304	6592.6095	0.9	15164.312 ^D	-2	4.955	6.836	...	II
1820	$x^5D^o-f^3F$ (1279)	3-4	2.34	6796.4937	6794.6185	-0.5	14713.469 ^B	1	4.955	6.780	-2.11 ^b	
		2-3	2.45	6714.2911	6712.4380	-1.8	14893.605 ^B	4	4.988	6.834	-2.16 ^b	
1821	$x^5D^o-e^3P$ (1280)	2-2	1.85	6826.7065	6824.8231	-3.3	14648.352 ^C	7	4.988	6.804	-2.13 ^b	
		2-1	1.85	6602.9452	6601.1220	-1.7	15144.757 ^D	4	4.988	6.866	...	
1822	$x^5D^o-4F6s^5F$	1-2	0.85	5839.7598	5838.1413	0.3	17123.992 ^A	-1	5.009	7.132	...	
		0-1	0.70	5792.8000	5791.1941	1.3	17262.809 ^A	-4	5.020	7.160	...	
		2-3	1.15	5787.2624	5785.6580	0.3	17279.327 ^A	-1	4.988	7.130	...	
		2-2	0.60	5781.2909	5779.6881	0.0	17297.175 ^B	0	4.988	7.132	...	
		1-1	0.78	5763.8296	5762.2315	1.3	17349.576 ^A	-4	5.009	7.160	...	
		3-3	0.90	5700.9913	5699.4100	0.7	17540.809 ^B	-2	4.955	7.130	...	
1823	$x^5D^o-s^6D5d^5D$	3-2	0.60	6057.0783	6055.4016	-0.4	16509.610 ^C	1	4.955	7.002	...	
		4-3	0.60	5983.9692	5982.3121	1.4	16711.316 ^B	-4	4.913	6.985	...	
1824	$x^5D^o-s^6D5d^5G$	3-4	0.60	5986.8463	5985.1885	1.8	16703.285 ^B	-5	4.955	7.026	...	
		4-5	1.38	5908.4799	5906.8430	0.3	16924.827 ^A	-1	4.913	7.011	...	
		4-4	0.30	5866.0219	5864.3965	4.1	17047.328 ^B	-12	4.913	7.026	...	
		3-3	0.70	5852.8271	5851.2052	0.3	17085.760 ^A	-1	4.955	7.074	...	
		4-3	1.00	5737.2998	5735.7088	3.0	17429.802 ^B	-9	4.913	7.074	...	
1825	$x^5D^o-s^6D5d^7F$	0-1	0.30	5979.9793	5978.3233	-2.5	16722.466 ^C	7	5.020	7.093	...	
		2-1	0.30	5888.4482	5886.8167	1.4	16982.403 ^B	-4	4.988	7.093	...	
		4-5	0.60	5808.2368	5806.6268	-0.7	17216.929 ^B	2	4.913	7.047	...	
1826	$x^5D^o-s^6D5d^7D$	3-4	3.68	6067.1615	6065.4822	-2.9	16482.172 ^D	8	4.955	6.999	...	I
		2-3	0.00	5938.5826	5936.9377	-0.4	16839.035 ^C	1	4.988	7.076	...	
		4-3	1.11	5732.4468	5730.8570	2.3	17444.558 ^D	-7	4.913	7.076	...	II
1827	$x^5D^o-s^6D5d^7G$	0-1	0.00	5942.0979	5940.4521	-4.2	16829.073 ^C	12	5.020	7.107	...	
		2-1	0.30	5851.7123	5850.0907	-2.1	17089.015 ^B	6	4.988	7.107	...	
		3-4	1.26	5818.6893	5817.0765	0.7	17186.001 ^A	-2	4.955	7.086	...	
		4-4	0.90	5704.4890	5702.9067	-1.0	17530.054 ^B	3	4.913	7.086	...	
1828	$x^5D^o-s^6D5d^5S$	2-2	0.30	6064.6234	6062.9447	0.7	16489.070 ^B	-2	4.988	7.032	...	
1829	$x^5D^o-s^6D5d^5F$	2-2	0.30	5980.5508	5978.8946	2.9	16720.868 ^B	-8	4.988	7.061	...	
		3-3	0.70	5967.6436	5965.9909	1.4	16757.033 ^A	-4	4.955	7.033	...	
		4-3	0.70	5847.5825	5845.9620	0.7	17101.084 ^B	-2	4.913	7.033	...	
		4-5	1.45	5835.6472	5834.0298	4.4	17136.060 ^A	-13	4.913	7.037	...	
		3-4	0.78	5829.0698	5827.4542	0.0	17155.396 ^B	0	4.955	7.082	...	
1830	$x^5D^o-4F6s^3F$	4-4	0.30	5714.4735	5712.8886	6.2	17499.425 ^C	-19	4.913	7.082	...	
		1-2	0.70	5751.6279	5750.0331	2.6	17386.382 ^B	-8	5.009	7.165	...	
		2-2	0.60	5694.8980	5693.3183	-1.9	17559.577 ^B	6	4.988	7.165	...	
1831	$x^5D^o-s^6D5d^5P$	4-3	0.78	5684.0757	5682.4989	3.6	17593.010 ^B	-11	4.913	7.094	...	
		2-2	0.85	5823.5037	5821.8896	1.0	17171.793 ^B	-3	4.988	7.117	...	
		3-3	0.60	5817.2406	5815.6282	2.4	17190.281 ^B	-7	4.955	7.087	...	
1832	$x^5D^o-s^4D4d^5F$	3-2	0.95	5736.1559	5734.5652	0.3	17433.278 ^A	-1	4.955	7.117	...	
		4-5	2.96	5544.7292	5543.1896	0.3	18035.146 ^A	-1	4.913	7.149	...	
		3-4	1.70	5509.9391	5508.4088	-0.3	18149.021 ^C	1	4.955	7.206	...	
1833	$x^5D^o-i^5D$ (1281)	2-3	0.30	5687.4410	5685.8633	1.6	17582.600 ^B	-5	4.988	7.168	...	
		3-4	0.78	5640.9097	5639.3445	0.6	17727.637 ^C	-2	4.955	7.153	...	
		3-2	1.60	5554.2358	5552.6937	1.9	18004.277 ^C	-6	4.955	7.188	-1.99 ^b	
		4-4	1.60	5533.5205	5531.9839	3.1	18071.678 ^C	-10	4.913	7.153	-1.61 ^b	
1834	$x^5D^o-g^5G$	2-2	2.32	5378.2244	5376.7293	3.2	18593.497 ^D	-11	4.988	7.293	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1835	$x^5D^o-s^4D4d^3G$	4-5	2.30	5300.4241	5298.9497	3.9	18866.415 ^D	-14	4.913	7.252	...	
1836	$x^5D^o-s^4D4d^5S$	1-2	2.08	5400.3166	5398.8156	3.2	18517.433 ^C	-11	5.009	7.305	...	
1837	$x^5D^o-59077^e$	2-1	2.57	5306.2373	5304.7614	0.3	18845.746 ^D	-1	4.988	7.324	...	Ne
1838	$x^5D^o-s^4D4d^3F$	2-3	1.70	5183.6664	5182.2231	3.2	19291.365 ^D	-12	4.988	7.380	...	
		3-4	2.15	5172.7547	5171.3144	-2.4	19332.059 ^C	9	4.955	7.352	...	
		3-3	2.02	5114.3419	5112.9170	0.5	19552.858 ^C	-2	4.955	7.380	...	
1839	$x^5D^o-5D4p^2^7F$	2-2	2.00	4925.6731	4924.2984	-4.6	20301.794 ^D	19	4.988	7.505	...	I
1840	$x^5D^o-s^4D4d^3P$	1-1	2.11	5047.7703	5046.3632	-1.0	19810.727 ^C	4	5.009	7.465	...	
1841	$y^7P^o-e^7D$	4-5	3.23	41772.542	41761.154	0	2393.917 ^A	0	5.012	5.308	...	
		4-4	2.79	36477.885	36467.939	0	2741.387 ^A	0	5.012	5.351	...	
		3-4	2.81	33826.833	33817.609	11	2956.233 ^A	-1	4.985	5.351	...	
		3-3	2.37	30983.387	30974.938	0	3227.536 ^A	0	4.985	5.385	...	
		2-3	2.18	29563.127	29555.065	-9	3382.592 ^A	1	4.966	5.385	...	
		3-2	1.88	29184.792	29176.833	-9	3426.442 ^A	1	4.985	5.410	...	
		2-2	2.31	27921.285	27913.670	8	3581.497 ^A	-1	4.966	5.410	...	
1842	$y^7P^o-e^5D$	4-4	1.64	23501.381	23494.970	-6	4255.069 ^A	1	5.012	5.539	...	
		3-4	1.38	22371.790	22365.686	0	4469.915 ^A	0	4.985	5.539	...	
		3-3	1.28	20600.555	20594.933	-4	4854.238 ^D	1	4.985	5.587	...	II
		2-2	0.95	18932.785	18927.617	-11	5281.843 ^A	3	4.966	5.620	...	
1843	$y^7P^o-e^5F$	4-4	0.85	14376.038	14372.110	-6	6956.019 ^B	3	5.012	5.874	...	
		3-4	0.90	13945.321	13941.509	0	7170.864 ^A	0	4.985	5.874	...	
		3-3	1.18	13247.744	13244.122	-16	7548.455 ^A	9	4.985	5.921	...	
1844	$y^7P^o-e^3F$	4-4	2.60	13264.356	13260.730	0	7539.001 ^D	0	5.012	5.946	...	I
1845	$y^7P^o-e^7F$ (1283)	4-5	1.89	9604.7640	9602.1302	-0.9	10411.500 ^A	1	5.012	6.302	...	
		4-3	1.32	9322.3500	9319.7927	0.9	10726.909 ^A	-1	5.012	6.341	...	
		4-4	1.65	9284.7614	9282.2143	-1.7	10770.336 ^A	2	5.012	6.347	...	
		3-3	1.88	9139.3009	9136.7931	0.8	10941.756 ^A	-1	4.985	6.341	...	
		3-4	2.17	9103.1727	9100.6748	0.0	10985.181 ^A	0	4.985	6.347	...	
		3-2	1.58	8989.6044	8987.1372	0.8	11123.960 ^B	-1	4.985	6.364	...	
		2-1	1.54	8963.8192	8961.3590	3.2	11155.959 ^B	-4	4.966	6.349	...	
		2-2	1.67	8866.0224	8863.5887	1.6	11279.015 ^B	-2	4.966	6.364	...	
1846	$y^7P^o-f^7D$ (1284)	4-5	1.83	10044.224	10041.471	0	9955.970 ^A	0	5.012	6.246	...	
		4-4	2.22	9628.2902	9625.6501	-0.9	10386.060 ^A	1	5.012	6.299	...	
		3-4	1.28	9433.1569	9430.5696	0.9	10600.905 ^D	-1	4.985	6.299	...	II
		3-3	2.11	9385.5056	9382.9312	-1.8	10654.727 ^A	2	4.985	6.306	...	
		3-2	1.69	9266.5043	9263.9621	-1.7	10791.556 ^A	2	4.985	6.323	...	
		2-2	1.23	9135.2483	9132.7416	0.0	10946.610 ^D	0	4.966	6.323	...	II
		2-1	0.78	9094.1598	9091.6643	2.5	10996.068 ^B	-3	4.966	6.329	...	
1847	$y^7P^o-f^5D$	4-4	1.51	9998.8031	9996.0627	2.0	10001.197 ^A	-2	5.012	6.251	...	
		4-3	1.72	9888.7926	9886.0819	0.0	10112.458 ^A	0	5.012	6.265	...	
		3-4	1.00	9788.5305	9785.8470	7.7	10216.038 ^B	-8	4.985	6.251	...	
		3-3	0.70	9683.0683	9680.4134	0.0	10327.305 ^B	0	4.985	6.265	...	
1848	$y^7P^o-e^7P$ (1285)	4-4	2.41	9946.9321	9944.2057	-1.0	10053.351 ^A	1	5.012	6.258	...	
		3-3	1.45	9611.5317	9608.8961	0.9	10404.169 ^A	-1	4.985	6.275	...	
		2-3	0.90	9470.3893	9467.7920	-1.8	10559.228 ^B	2	4.966	6.275	...	
		3-2	0.95	9385.9337	9383.3593	-4.4	10654.241 ^B	5	4.985	6.306	...	
		2-2	1.36	9251.2989	9248.7608	-1.7	10809.293 ^A	2	4.966	6.306	...	
1849	$y^7P^o-e^5G$	4-5	1.89	9725.7986	9723.1321	-0.9	10281.932 ^A	1	5.012	6.286	...	
		3-4	1.79	9282.9092	9280.3626	1.7	10772.485 ^A	-2	4.985	6.320	...	
		4-3	1.00	9261.7711	9259.2302	5.1	10797.071 ^B	-6	5.012	6.350	...	
		3-3	1.43	9081.0636	9078.5716	-1.6	11011.926 ^A	2	4.985	6.350	...	
		2-2	1.45	8835.3935	8832.9680	-3.9	11318.115 ^C	5	4.966	6.369	...	
1850	$y^7P^o-e^5S$	3-2	1.53	9139.2474	9136.7397	-1.7	10941.820 ^A	2	4.985	6.341	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1851	$y^7P^o - g^5D$	3-4	1.38	8973.9266	8971.4636	5.6	11143.394 ^B	-7	4.985	6.366	...	
1852	$y^7P^o - e^7S$	2-3	1.79	8682.0199	8679.6359	3.0	11518.057 ^B	-4	4.966	6.394	...	
1853	$y^7P^o - s^6D5d^5G$ (1286)	3-4	0.70	6073.1012	6071.4202	0.0	16466.052 ^D	0	4.985	7.026	...	II
		2-3	1.26	5881.1165	5879.4870	2.1	17003.574 ^D	-6	4.966	7.074	...	I
1854	$y^7P^o - s^6D5d^7F$	3-3	0.30	5925.1563	5923.5150	-1.4	16877.192 ^C	4	4.985	7.077	...	
1855	$y^7P^o - s^6D5d^7G$	4-3	0.30	5903.3783	5901.7429	-9.4	16939.453 ^C	27	5.012	7.112	...	
		3-4	0.00	5900.1454	5898.5107	10.1	16948.735 ^D	-29	4.985	7.086	...	I
		2-3	0.70	5777.2318	5775.6301	0.3	17309.328 ^D	-1	4.966	7.112	...	II
1856	$x^5F^o - e^5D$	2-3	1.94	24732.413	24725.667	6	4043.277 ^A	-1	5.085	5.587	...	
		4-4	2.80	24494.350	24487.669	0	4082.574 ^A	0	5.033	5.539	...	
		1-2	1.90	23790.966	23784.476	0	4203.276 ^A	0	5.099	5.620	...	
		3-3	2.89	23701.316	23694.850	-6	4219.175 ^A	1	5.064	5.587	...	
		2-2	2.82	23170.546	23164.224	0	4315.824 ^A	0	5.085	5.620	...	
		1-1	2.63	22838.595	22832.364	-5	4378.553 ^A	1	5.099	5.642	...	
		5-4	3.66	22626.011	22619.837	-5	4419.692 ^A	1	4.991	5.539	...	
		1-0	2.62	22398.980	22392.868	-10	4464.489 ^A	2	5.099	5.653	...	
		4-3	3.42	22386.905	22380.797	0	4466.897 ^A	0	5.033	5.587	-0.46 ^a	
		2-1	2.91	22266.255	22260.179	0	4491.101 ^A	0	5.085	5.642	...	
		3-2	3.18	22263.181	22257.107	0	4491.721 ^A	0	5.064	5.620	...	
1857	$x^5F^o - e^5F$	4-5	2.14	15598.013	15593.752	0	6411.073 ^A	0	5.033	5.828	...	
		3-4	2.26	15300.345	15296.165	0	6535.800 ^A	0	5.064	5.874	...	
		2-3	2.17	14842.331	14838.275	0	6737.486 ^A	0	5.085	5.921	...	
		5-5	2.93	14818.784	14814.735	-2	6748.192 ^A	1	4.991	5.828	-1.03 ^c	
		4-4	2.56	14741.604	14737.576	0	6783.522 ^A	0	5.033	5.874	...	
		1-2	1.95	14480.007	14476.050	0	6906.074 ^A	0	5.099	5.956	...	
		3-3	2.28	14464.698	14460.745	-2	6913.383 ^A	1	5.064	5.921	...	
		2-2	2.13	14247.813	14243.919	2	7018.621 ^A	-1	5.085	5.956	...	
		1-1	2.10	14102.930	14099.075	-2	7090.725 ^A	1	5.099	5.978	...	
		5-4	2.07	14043.679	14039.841	-2	7120.641 ^A	1	4.991	5.874	...	
		4-3	2.02	13964.325	13960.508	0	7161.105 ^A	0	5.033	5.921	...	
		3-2	1.94	13899.469	13895.670	-2	7194.519 ^A	1	5.064	5.956	...	
1858	$x^5F^o - e^3F$	2-1	1.80	13882.578	13878.783	-2	7203.273 ^A	1	5.085	5.978	...	
		3-4	1.15	14047.344	14043.505	6	7118.783 ^D	-3	5.064	5.946	...	II
		4-4	1.78	13574.953	13571.242	-2	7366.508 ^A	1	5.033	5.946	...	
		3-3	1.40	13004.388	13000.832	-2	7689.712 ^A	1	5.064	6.017	...	
		5-4	0.90	12980.906	12977.357	7	7703.622 ^B	-4	4.991	5.946	...	
1859	$x^5F^o - e^7F$ (1292)	1-2	0.95	12824.143	12820.636	-5	7797.792 ^A	3	5.099	6.066	...	
		5-6	1.95	9915.8973	9913.1793	-2.0	10084.816 ^A	2	4.991	6.241	...	
		2-3	2.36	9870.8927	9868.1868	1.0	10130.796 ^A	-1	5.085	6.341	...	
		1-2	2.24	9803.4871	9800.7996	0.0	10200.452 ^A	0	5.099	6.364	...	
		4-5	2.91	9766.5750	9763.8974	1.9	10239.004 ^A	-2	5.033	6.302	...	
		3-3	2.59	9702.4341	9699.7739	1.9	10306.692 ^A	-2	5.064	6.341	...	
		2-2	2.16	9696.4996	9693.8410	0.0	10313.000 ^A	0	5.085	6.364	...	
		3-4	2.37	9661.7256	9659.0764	0.0	10350.118 ^A	0	5.064	6.347	...	
		3-2	1.45	9533.8900	9531.2755	-0.9	10488.898 ^A	1	5.064	6.364	...	
		4-3	1.67	9474.7089	9472.1104	1.8	10554.414 ^A	-2	5.033	6.341	...	
1860	$x^5F^o - f^7D$ (1293)	5-5	2.06	9455.2607	9452.6674	0.9	10576.123 ^A	-1	4.991	6.302	...	
		4-4	1.36	9435.8815	9433.2935	-2.7	10597.844 ^A	3	5.033	6.347	...	
		3-3	1.80	9980.3766	9977.6411	0.0	10019.662 ^A	0	5.064	6.306	...	
		2-1	1.53	9970.0361	9967.3034	2.0	10030.054 ^A	-2	5.085	6.329	...	
1861	$x^5F^o - f^5D$ (1294)	4-4	1.41	9790.8997	9788.2155	-1.9	10213.566 ^A	2	5.033	6.299	...	
		5-4	1.04	9478.0576	9475.4582	-1.8	10550.685 ^B	2	4.991	6.299	...	
		1-0	1.40	10151.860	10149.078	2	9850.411 ^A	-2	5.099	6.321	...	
		3-2	2.04	10145.624	10142.843	-1	9856.466 ^A	1	5.064	6.286	...	
		2-1	1.79	10139.880	10137.102	1	9862.049 ^A	-1	5.085	6.308	...	
		4-3	2.11	10060.400	10057.643	2	9939.962 ^A	-2	5.033	6.265	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1862	$x^5F^o-e^7P$ (1295)	5-4	2.53	9836.8809	9834.1843	-1.9	10165.824 ^A	2	4.991	6.251	...	
		4-3	2.16	9983.2003	9980.4640	1.0	10016.828 ^A	-1	5.033	6.275	...	
		5-4	2.37	9786.6740	9783.9910	-2.9	10217.976 ^A	3	4.991	6.258	...	
1863	$x^5F^o-e^5G$ (1296)	4-5	3.20	9891.7477	9889.0362	1.0	10109.437 ^A	-1	5.033	6.286	-0.45 ^a	
		3-4	3.23	9864.4409	9861.7368	1.9	10137.422 ^A	-2	5.064	6.320	-0.14 ^a	
		2-3	2.89	9802.9961	9800.3086	0.0	10200.963 ^A	0	5.085	6.350	...	
		1-2	2.88	9766.0570	9763.3796	-1.0	10239.547 ^A	1	5.099	6.369	-0.41 ^a	
		5-6	3.75	9741.2434	9738.5726	-0.9	10265.630 ^A	1	4.991	6.264	0.15 ^a	
		2-2	2.59	9659.8823	9657.2336	0.0	10352.093 ^A	0	5.085	6.369	...	
		3-3	2.86	9636.8321	9634.1897	5.6	10376.854 ^A	-6	5.064	6.350	...	
		4-4	3.10	9629.1376	9626.4973	0.9	10385.146 ^A	-1	5.033	6.320	-0.25 ^a	
		5-5	3.14	9572.5328	9569.9078	0.0	10446.556 ^A	0	4.991	6.286	-0.42 ^a	
		3-2	1.48	9498.4902	9495.8852	0.9	10527.989 ^A	-1	5.064	6.369	...	
		4-3	1.53	9412.1332	9409.5516	-1.8	10624.584 ^A	2	5.033	6.350	...	
		5-4	1.45	9326.3885	9323.8302	0.9	10722.264 ^A	-1	4.991	6.320	...	
1864	$x^5F^o-e^7G$ (1297)	1-2	2.00	9606.9601	9604.3257	0.9	10409.120 ^A	-1	5.099	6.390	...	
		1-1	0.78	9582.0281	9579.4005	-0.9	10436.204 ^B	1	5.099	6.393	...	
		2-3	1.32	9576.2812	9573.6551	-0.9	10442.467 ^A	1	5.085	6.380	...	
		3-4	1.79	9530.3855	9527.7719	0.9	10492.755 ^A	-1	5.064	6.365	...	
		2-2	1.54	9504.1956	9501.5891	-0.9	10521.669 ^A	1	5.085	6.390	...	
		3-3	1.94	9417.6466	9415.0636	0.0	10618.364 ^A	0	5.064	6.380	...	
		4-5	2.97	9403.6930	9401.1137	0.0	10634.120 ^A	0	5.033	6.351	-0.41 ^a	
		5-6	2.40	9336.6175	9334.0563	0.0	10710.517 ^A	0	4.991	6.319	...	
		4-4	2.49	9310.5735	9308.0194	0.9	10740.477 ^A	-1	5.033	6.365	...	
		5-5	1.88	9114.7433	9112.2422	2.5	10971.236 ^A	-3	4.991	6.351	...	
		5-4	1.97	9027.2294	9024.7520	0.0	11077.596 ^A	0	4.991	6.365	...	
1865	$x^5F^o-f^5F$ (1298)	4-5	2.93	9515.8724	9513.2627	0.0	10508.758 ^A	0	5.033	6.336	...	
		1-2	2.76	9456.7888	9454.1951	0.9	10574.414 ^A	-1	5.099	6.410	...	
		2-3	3.02	9446.3932	9443.8023	0.9	10586.051 ^A	-1	5.085	6.398	-0.22 ^a	
		3-4	3.13	9416.6250	9414.0422	0.0	10619.516 ^A	0	5.064	6.380	-0.32 ^a	
		1-1	2.57	9412.7401	9410.1583	-1.8	10623.899 ^A	2	5.099	6.417	...	
		2-2	2.23	9357.1971	9354.6304	0.9	10686.961 ^A	-1	5.085	6.410	...	
		2-1	2.08	9314.0700	9311.5149	0.0	10736.445 ^A	0	5.085	6.417	...	
		3-3	2.09	9291.9972	9289.4482	0.0	10761.949 ^A	0	5.064	6.398	...	
		5-5	2.52	9220.0926	9217.5631	-0.9	10845.878 ^A	1	4.991	6.336	...	
		4-4	1.97	9201.9702	9199.4455	-0.8	10867.238 ^A	1	5.033	6.380	...	
		5-4	1.74	8925.1018	8922.6520	1.6	11204.354 ^B	-2	4.991	6.380	...	
1866	$x^5F^o-e^3D$ (1300)	3-3	1.79	9567.4865	9564.8628	-0.9	10452.066 ^A	1	5.064	6.359	...	
		4-3	2.27	9345.9804	9343.4168	0.0	10699.787 ^A	0	5.033	6.359	...	
		2-2	1.97	9326.7330	9324.1745	0.0	10721.868 ^A	0	5.085	6.415	...	
		3-2	2.12	9176.1935	9173.6758	0.8	10897.765 ^A	-1	5.064	6.415	...	
		1-1	1.89	9166.4977	9163.9826	0.8	10909.292 ^A	-1	5.099	6.452	...	
		2-1	2.07	9072.8928	9070.4031	-1.6	11021.843 ^A	2	5.085	6.452	...	
1867	$x^5F^o-g^5D$ (1301)	3-4	1.36	9516.2563	9513.6466	2.7	10508.334 ^A	-3	5.064	6.366	...	
		2-3	1.26	9300.1576	9297.6063	0.0	10752.506 ^A	0	5.085	6.419	...	
		4-4	2.10	9297.0855	9294.5351	0.0	10756.059 ^A	0	5.033	6.366	...	
		1-2	1.46	9158.1600	9155.6471	-0.8	10919.224 ^A	1	5.099	6.453	...	
		3-3	2.29	9150.4687	9147.9579	0.0	10928.402 ^A	0	5.064	6.419	...	
		2-2	2.27	9064.7277	9062.2401	0.0	11031.771 ^A	0	5.085	6.453	...	
		1-1	2.17	9022.2229	9019.7469	1.6	11083.743 ^A	-2	5.099	6.474	...	
		5-4	3.20	9014.5485	9012.0745	-0.8	11093.179 ^A	1	4.991	6.366	-0.31 ^a	
		1-0	2.37	8987.3552	8984.8886	1.6	11126.744 ^A	-2	5.099	6.479	...	
		4-3	3.07	8947.6459	8945.1900	0.8	11176.124 ^A	-1	5.033	6.419	...	
		2-1	2.57	8931.5292	8929.0777	2.4	11196.291 ^A	-3	5.085	6.474	...	
		3-2	2.75	8922.4627	8920.0137	0.8	11207.668 ^A	-1	5.064	6.453	...	
1868	$x^5F^o-e^7S$	2-3	1.48	9476.8378	9474.2387	2.7	10552.043 ^A	-3	5.085	6.394	...	
		3-3	0.90	9321.4497	9318.8927	-2.6	10727.945 ^B	3	5.064	6.394	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1869	$x^5F^o - e^5P$ (1302)	2-3	1.45	9242.8412	9240.3055	1.7	10819.184 ^A	-2	5.085	6.427	...	
		3-3	1.20	9094.9737	9092.4780	0.0	10995.084 ^B	0	5.064	6.427	...	
		2-2	1.49	9050.2512	9047.7676	0.0	11049.417 ^B	0	5.085	6.455	...	
		3-2	2.06	8908.4399	8905.9947	4.0	11225.310 ^B	-5	5.064	6.455	...	
1870	$x^5F^o - g^5F$ (1303)	3-4	1.77	7967.1638	7964.9730	0.0	12551.518 ^A	0	5.064	6.620	...	
		4-4	1.98	7812.9639	7810.8147	0.0	12799.240 ^A	0	5.033	6.620	...	
		5-5	2.72	7810.0575	7807.9091	-0.6	12804.003 ^A	1	4.991	6.579	-0.31 ^c	
		2-3	1.81	7804.6198	7802.4728	-1.2	12812.924 ^A	2	5.085	6.674	-1.40 ^c	
		3-3	1.48	7698.9311	7696.8127	2.4	12988.816 ^A	-4	5.064	6.674	...	
		1-2	1.40	7617.9448	7615.8483	1.2	13126.900 ^B	-2	5.099	6.727	...	
		2-2	1.82	7553.1878	7551.1088	3.4	13239.443 ^B	-6	5.085	6.727	-1.63 ^b	
		1-1	1.58	7543.9894	7541.9128	0.0	13255.586 ^A	0	5.099	6.743	-1.62 ^c	
1871	$x^5F^o - h^5D$ (1304)	4-4	2.02	7961.3328	7959.1435	0.6	12560.711 ^A	-1	5.033	6.590	...	
		3-3	2.28	7871.7757	7869.6106	39.0	12703.614 ^D	-63	5.064	6.639	...	I
		5-4	2.50	7753.2422	7751.1091	-0.6	12897.830 ^A	1	4.991	6.590	-0.72 ^c	
		2-2	1.52	7722.8379	7720.7130	0.6	12948.608 ^A	-1	5.085	6.691	...	
		4-3	2.16	7721.1730	7719.0486	0.0	12951.400 ^A	0	5.033	6.639	...	
		1-1	1.78	7691.1528	7689.0365	-0.6	13001.952 ^A	1	5.099	6.711	...	
		2-1	1.15	7625.1477	7623.0492	-1.2	13114.500 ^C	2	5.085	6.711	...	
		3-2	1.73	7619.3350	7617.2380	1.2	13124.505 ^A	-2	5.064	6.691	...	
1872	$x^5F^o - f^5P$ (1305)	4-3	2.06	7957.8805	7955.6922	0.0	12566.160 ^A	0	5.033	6.591	-1.19 ^c	
		3-2	2.17	7857.5600	7855.3988	-0.6	12726.597 ^A	1	5.064	6.641	...	
		1-1	1.04	7815.7967	7813.6467	-1.2	12794.601 ^B	2	5.099	6.686	-2.00 ^c	
		2-1	2.06	7747.6455	7745.5140	0.6	12907.147 ^A	-1	5.085	6.686	...	
1873	$x^5F^o - f^5G$ (1306)	4-5	1.76	7881.9262	7879.7584	0.6	12687.254 ^A	-1	5.033	6.606	-1.65 ^b	
		5-6	2.41	7744.8356	7742.7047	0.6	12911.830 ^A	-1	4.991	6.592	...	
		3-4	1.72	7735.8516	7733.7232	-0.6	12926.825 ^A	1	5.064	6.666	...	
		2-3	1.87	7608.5637	7606.4697	1.2	13143.085 ^A	-2	5.085	6.715	...	
		4-4	2.12	7590.3944	7588.3053	0.0	13174.546 ^A	0	5.033	6.666	-2.06 ^b	
		1-2	1.91	7549.9750	7547.8968	0.0	13245.077 ^A	0	5.099	6.741	...	
		3-3	1.94	7508.0813	7506.0144	0.6	13318.982 ^A	-1	5.064	6.715	...	
		2-2	1.54	7486.3585	7484.2975	-2.2	13357.629 ^D	4	5.085	6.741	-1.70 ^b	I
1874	$x^5F^o - e^5H$ (1307)	5-6	1.52	7636.1077	7634.0062	-2.3	13095.677 ^B	4	4.991	6.615	...	
		4-5	1.15	7530.2180	7528.1451	-2.3	13279.828 ^B	4	5.033	6.679	...	
		3-4	1.57	7465.4376	7463.3822	-2.2	13395.062 ^B	4	5.064	6.724	-1.72 ^b	
1875	$x^5F^o - e^3G$ (1308)	4-5	2.27	7607.4530	7605.3593	0.6	13145.004 ^A	-1	5.033	6.663	...	
		3-4	2.09	7561.8015	7559.7200	0.0	13224.362 ^A	0	5.064	6.703	...	
		2-3	1.67	7484.2838	7482.2232	-0.6	13361.332 ^A	1	5.085	6.742	...	
1876	$x^5F^o - f^3D$ (1309)	2-3	1.11	7855.7983	7853.6376	-2.5	12729.451 ^D	4	5.085	6.664	...	II
		3-3	1.96	7748.7262	7746.5943	-1.8	12905.347 ^A	3	5.064	6.664	-1.33 ^c	
		2-2	1.65	7663.5858	7661.4769	-0.6	13048.722 ^A	1	5.085	6.703	...	
		4-3	1.64	7602.7884	7600.6959	-1.7	13153.069 ^A	3	5.033	6.664	...	
		3-2	1.30	7561.6545	7559.5731	-0.6	13224.619 ^B	1	5.064	6.703	...	
		1-1	0.60	7508.2132	7506.1463	-1.1	13318.748 ^C	2	5.099	6.751	...	
1877	$x^5F^o - ^4F6s^5F$	2-2	0.30	6056.7683	6055.0917	1.8	16510.455 ^D	-5	5.085	7.132	...	II
		1-1	0.48	6015.5804	6013.9148	-0.7	16623.500 ^B	2	5.099	7.160	...	
		3-3	0.60	5999.3361	5997.6749	0.0	16668.511 ^A	0	5.064	7.130	...	
		3-2	0.30	5992.9206	5991.2611	0.7	16686.355 ^B	-2	5.064	7.132	...	
		2-1	0.30	5975.1256	5973.4709	-1.4	16736.050 ^B	4	5.085	7.160	...	
		4-3	0.30	5911.4816	5909.8439	0.0	16916.233 ^B	0	5.033	7.130	...	
1878	$x^5F^o - s^6D5d^5G$	5-5	1.40	6137.4883	6135.7901	3.4	16293.310 ^B	-9	4.991	7.011	...	
1879	$x^5F^o - s^6D5d^7F$	5-5	0.30	6029.3928	6027.7236	-0.4	16585.418 ^B	1	4.991	7.047	...	
		4-4	0.95	5983.4114	5981.7544	4.7	16712.874 ^D	-13	5.033	7.105	...	II
1880	$x^5F^o - s^6D5d^7G$	4-4	0.90	6038.1289	6036.4573	0.7	16561.422 ^D	-2	5.033	7.086	...	I
		5-6	0.00	6017.7136	6016.0475	-2.5	16617.607 ^D	7	4.991	7.051	...	
		5-4	0.30	5917.6794	5916.0401	9.1	16898.516 ^C	-26	4.991	7.086	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1881	$x^5F^o-s^6D5d^5F$	5-5	1.11	6058.9356	6057.2585	5.1	16504.549 ^A	-14	4.991	7.037	...	
1882	$x^5F^o-^4F6s^3F$	1-2	0.00	6002.2925	6000.6305	2.9	16660.301 ^C	-8	5.099	7.165	...	
		2-2	0.00	5962.0121	5960.3609	-1.8	16772.861 ^B	5	5.085	7.165	...	
		3-2	0.00	5900.1454	5898.5107	6.3	16948.735 ^D	-18	5.064	7.165	...	I
1883	$x^5F^o-s^4D4d^5F$	1-1	0.60	5802.8774	5801.2688	-2.4	17232.830 ^A	7	5.099	7.236	...	
		3-3	1.56	5783.7131	5782.1096	-2.0	17289.931 ^A	6	5.064	7.207	...	
		2-2	0.95	5716.1345	5714.5491	-1.6	17494.340 ^A	5	5.085	7.254	...	
		4-4	1.53	5706.3164	5704.7337	0.3	17524.440 ^A	-1	5.033	7.206	...	
1884	$x^5F^o-i^5D$ (1313)	3-3	0.30	5892.1287	5890.4962	-2.8	16971.795 ^B	8	5.064	7.168	...	
		4-4	0.90	5846.9073	5845.2869	0.0	17103.059 ^A	0	5.033	7.153	-1.82 ^b	
		3-2	0.85	5837.0356	5835.4179	-0.7	17131.984 ^A	2	5.064	7.188	...	
		1-1	1.74	5830.0203	5828.4044	1.7	17152.599 ^A	-5	5.099	7.226	...	
		4-3	1.18	5807.3669	5805.7571	0.0	17219.508 ^A	0	5.033	7.168	-1.59 ^b	
		2-1	1.15	5792.0122	5790.4065	-1.7	17265.157 ^B	5	5.085	7.226	...	
		5-4	1.36	5733.8861	5732.2960	-0.7	17440.179 ^A	2	4.991	7.153	-1.56 ^b	
1885	$x^5F^o-g^5G$ (1314)	4-5	2.73	5657.0595	5655.4900	0.3	17677.028 ^A	-1	5.033	7.224	...	
		3-4	2.19	5656.7459	5655.1765	-0.3	17678.008 ^A	1	5.064	7.255	-0.64 ^b	
		2-3	2.88	5652.2738	5650.7055	0.0	17691.995 ^D	0	5.085	7.279	-0.96 ^b	Ar
		1-2	2.04	5651.5554	5649.9873	0.3	17694.244 ^A	-1	5.099	7.293	-0.92 ^b	
		5-6	2.62	5635.5103	5633.9465	0.3	17744.622 ^A	-1	4.991	7.191	-0.27 ^b	
		2-2	1.61	5615.8303	5614.2717	-4.4	17806.806 ^B	14	5.085	7.293	...	
1886	$x^5F^o-s^4D4d^5P$	2-2	0.78	5815.6201	5814.0081	0.0	17195.071 ^A	0	5.085	7.217	...	
		3-2	0.30	5756.7289	5755.1327	-2.3	17370.976 ^B	7	5.064	7.217	...	
		3-3	1.26	5669.0335	5667.4608	2.9	17639.691 ^D	-9	5.064	7.251	...	Ar
1887	$x^5F^o-s^4D4d^3G$	5-5	1.48	5483.9850	5482.4616	1.2	18234.915 ^C	-4	4.991	7.252	...	
1888	$x^5F^o-s^4D4d^3D$	2-3	1.49	5661.1454	5659.5747	-0.3	17664.270 ^A	1	5.085	7.275	...	
1889	$x^5F^o-58831^e$	4-3	1.90	5483.4221	5481.8989	2.7	18236.787 ^C	-9	5.033	7.294	...	
1890	$x^5F^o-s^4D4d^3F$	4-3	2.93	5283.1005	5281.6307	0.6	18928.279 ^D	-2	5.033	7.380	...	Ar
		3-2	2.51	5270.5272	5269.0608	-8.6	18973.434 ^C	31	5.064	7.416	...	
1891	$d^8^3P-x^3D^o$	2-3	1.48	22992.380	22986.107	5	4349.267 ^A	-1	5.067	5.606	...	
		1-1	1.08	22865.750	22859.512	5	4373.353 ^B	-1	5.105	5.648	...	
1892	$d^8^3P-z^3S^o$	2-1	1.04	17453.816	17449.050	0	5729.406 ^A	0	5.067	5.778	...	
1893	$d^8^3P-y^3P^o$	1-2	1.69	18022.340	18017.419	-23	5548.669 ^B	7	5.105	5.793	...	
		0-1	1.40	17645.002	17640.185	0	5667.327 ^A	0	5.112	5.815	...	
		1-1	1.98	17472.073	17467.303	0	5723.419 ^A	0	5.105	5.815	...	
		2-2	1.88	17077.497	17072.833	9	5855.659 ^A	-3	5.067	5.793	...	
		2-1	1.20	16582.592	16578.064	0	6030.420 ^A	0	5.067	5.815	...	
1894	$d^8^3P-u^5D^o$	1-2	1.62	17512.815	17508.034	3	5710.104 ^D	-1	5.105	5.813	...	I
		2-3	1.64	17025.391	17020.742	0	5873.580 ^A	0	5.067	5.795	...	
		0-1	1.75	16827.285	16822.690	0	5942.729 ^D	0	5.112	5.849	...	I
		2-1	1.34	15858.360	15854.029	0	6305.822 ^A	0	5.067	5.849	...	
1895	$d^8^3P-w^3D^o$	1-2	1.23	16785.085	16780.501	6	5957.670 ^A	-2	5.105	5.844	...	
		0-1	1.26	16563.086	16558.563	-3	6037.522 ^A	1	5.112	5.861	...	
		1-1	1.00	16410.633	16406.151	13	6093.610 ^D	-5	5.105	5.861	...	I
		2-3	1.04	16271.343	16266.899	5	6145.774 ^A	-2	5.067	5.829	...	
1896	$d^8^3P-P_{sp}3^1D^o$	1-2	2.24	16022.380	16018.003	13	6241.270 ^A	-5	5.105	5.879	...	
		2-2	1.93	15271.202	15267.030	5	6548.273 ^A	-2	5.067	5.879	...	
1897	$d^8^3P-y^3S^o$	0-1	1.71	15820.021	15815.700	3	6321.104 ^A	-1	5.112	5.896	...	
		1-1	2.40	15680.872	15676.589	5	6377.196 ^A	-2	5.105	5.896	...	
		2-1	2.66	14960.662	14956.574	2	6684.196 ^A	-1	5.067	5.896	-1.68 ^a	
1898	$d^8^3P-v^5F^o$	1-2	1.43	14163.435	14159.564	2	7060.434 ^A	-1	5.105	5.981	...	
		2-2	1.70	13573.248	13569.538	2	7367.433 ^A	-1	5.067	5.981	...	
		2-1	0.48	13370.426	13366.771	2	7479.193 ^B	-1	5.067	5.995	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷ Bl. ⁸
1899	$d^8\ ^3P-v\ ^5P^o$	1-2	1.04	14316.324	14312.412	0	6985.033 ^A	0	5.105	5.971	...
		0-1	1.30	14173.611	14169.737	2	7055.365 ^A	-1	5.112	5.987	...
		1-1	1.20	14061.816	14057.972	2	7111.457 ^A	-1	5.105	5.987	...
		2-2	1.89	13713.596	13709.848	2	7292.033 ^A	-1	5.067	5.971	...
1900	$d^8\ ^3P-x\ ^3P^o$	1-2	1.30	14032.671	14028.835	8	7126.227 ^A	-4	5.105	5.989	...
		0-1	1.30	13733.185	13729.431	2	7281.632 ^A	-1	5.112	6.015	...
		1-0	1.83	13733.058	13729.304	2	7281.699 ^A	-1	5.105	6.008	...
		1-1	1.15	13628.202	13624.476	2	7337.725 ^A	-1	5.105	6.015	...
		2-2	1.98	13453.105	13449.427	4	7433.228 ^A	-2	5.067	5.989	...
		2-1	2.13	13080.915	13077.338	2	7644.725 ^A	-1	5.067	6.015	...
1901	$d^8\ ^3P-v\ ^3D^o$	1-2	1.32	12400.473	12397.081	2	8064.208 ^A	-1	5.105	6.105	...
1902	$d^8\ ^3P-Fsp3\ ^1F^o$	2-3	1.74	11620.193	11617.012	8	8605.709 ^A	-6	5.067	6.134	...
1903	$d^8\ ^3P-w\ ^3P^o$	1-0	1.11	11398.689	11395.569	-8	8772.938 ^B	6	5.105	6.193	...
		1-1	1.11	11280.572	11277.484	3	8864.798 ^A	-2	5.105	6.204	...
		2-2	1.45	10734.889	10731.949	1	9315.420 ^A	-1	5.067	6.222	...
1904	$d^8\ ^3P-y\ ^1D^o$	1-2	0.78	9496.7664	9494.1619	-5.4	10529.900 ^B	6	5.105	6.411	...
1905	$d^8\ ^3P-u\ ^3D^o$ (1329*)	2-3	2.05	9010.8851	9008.4121	0.0	11097.689 ^A	0	5.067	6.443	...
1906	$d^8\ ^3P-2P4p\ ^1P^o$	1-1	2.11	9088.9285	9086.4344	9.1	11002.397 ^B	-11	5.105	6.469	...
1907	$d^8\ ^3P-t\ ^3D^o$ (1330*)	2-3	3.02	8816.9395	8814.5190	7.8	11341.804 ^A	-10	5.067	6.473	...
		1-2	1.68	8692.2509	8689.8641	4.5	11504.500 ^B	-6	5.105	6.532	...
		1-1	1.38	8562.0932	8559.7416	2.9	11679.387 ^C	-4	5.105	6.553	...
		2-1	1.68	8342.7955	8340.5032	0.7	11986.390 ^B	-1	5.067	6.553	...
1908	$d^8\ ^3P-v\ ^3P^o$ (1331*)	2-2	1.46	8302.2814	8300.0001	0.0	12044.882 ^A	0	5.067	6.561	...
		2-1	1.53	8091.5779	8089.3535	-1.3	12358.529 ^A	2	5.067	6.599	...
1909	$d^8\ ^3P-Dsp3\ ^5F^o$	0-1	1.00	8024.1649	8021.9587	2.6	12462.356 ^B	-4	5.112	6.657	...
		1-1	1.08	7988.2088	7986.0123	1.3	12518.451 ^D	-2	5.105	6.657	...
1910	$d^8\ ^3P-x\ ^3S^o$	0-1	1.11	7953.0136	7950.8266	-0.6	12573.850 ^B	1	5.112	6.671	...
		1-1	1.51	7917.6915	7915.5140	-0.6	12629.944 ^A	1	5.105	6.671	...
1911	$d^8\ ^3P-4F5p\ ^3D^o$	2-3	0.95	7712.2189	7710.0969	0.6	12966.437 ^B	-1	5.067	6.675	...
1912	$d^8\ ^3P-w\ ^1D^o$	2-2	2.18	6719.1558	6717.3014	-1.4	14882.822 ^C	3	5.067	6.912	...
1913	$d^8\ ^3P-t\ ^3F^o$	2-3	0.00	5963.1761	5961.5246	0.0	16769.587 ^B	0	5.067	7.146	...
1914	$d^8\ ^3P-Psp1\ ^3D^o$	2-3	0.30	5990.2152	5988.5565	0.0	16693.891 ^B	0	5.067	7.137	...
1915	$d^8\ ^3P-s\ ^4D5p\ ^3P^o$	2-2	0.00	5838.3732	5836.7551	-3.7	17128.059 ^C	11	5.067	7.191	...
1916	$d^8\ ^3P-s\ ^4D5p\ ^3D^o$	1-2	0.00	5898.3774	5896.7433	7.3	16953.815 ^D	-21	5.105	7.207	...
		2-2	0.30	5793.4571	5791.8511	-5.0	17260.851 ^C	15	5.067	7.207	...
		2-3	0.85	5745.5223	5743.9291	-4.0	17404.858 ^B	12	5.067	7.225	...
1917	$d^8\ ^3P-s\ ^4D5p\ ^5P^o$	1-1	1.70	5500.0064	5498.4788	-3.6	18181.797 ^C	12	5.105	7.359	...
1918	$d^8\ ^3P-4F_{4,5}4f\ [2.5]^o$	2-2	1.60	5601.6541	5600.0993	1.9	17851.870 ^D	-6	5.067	7.281	...
1919	$d^8\ ^3P-4F_{3,5}4f\ [1.5]^o$	1-2	1.90	5525.5277	5523.9933	1.8	18097.819 ^C	-6	5.105	7.349	...
1920	$z\ ^5S^o-e\ ^7F$	2-1	2.16	9696.4996	9693.8410	6.6	10313.000 ^D	-7	5.070	6.349	...
1921	$z\ ^5S^o-f\ ^5F$ (1338)	2-2	0.95	9250.6673	9248.1294	-6.8	10810.031 ^B	8	5.070	6.410	...
1922	$z\ ^5S^o-g\ ^5G$	2-3	1.69	5613.2369	5611.6790	7.2	17815.033 ^D	-23	5.070	7.279	...
1923	$z\ ^5S^o-s\ ^4D4d\ ^5P$	2-3	0.60	5686.0614	5684.4841	-1.0	17586.866 ^B	3	5.070	7.251	...
1924	$z\ ^5S^o-s\ ^4D4d\ ^3D$	2-3	1.34	5621.9805	5620.4203	1.6	17787.326 ^B	-5	5.070	7.275	...
1925	$x\ ^5P^o-e\ ^5D$	3-3	2.65	39547.747	39536.965	-31	2528.589 ^A	2	5.273	5.587	...
		3-2	2.28	35699.814	35690.080	-13	2801.135 ^A	1	5.273	5.620	...

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(I) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1926	$x^5P^\circ - e^5F$	3-4	1.30	20638.919	20633.286	-9	4845.215 ^A	2	5.273	5.874	...	
		3-3	1.15	19146.825	19141.598	-7	5222.798 ^B	2	5.273	5.921	...	
1927	$x^5P^\circ - e^3F$	3-4	0.90	18422.313	18417.284	-3	5428.200 ^A	1	5.273	5.946	...	
1928	$x^5P^\circ - f^7D$	3-4	1.04	12084.228	12080.922	9	8275.249 ^A	-6	5.273	6.299	...	
		3-2	1.15	11812.098	11808.866	10	8465.896 ^D	-7	5.273	6.323	...	I
1929	$x^5P^\circ - f^5D$	1-2	0.78	13124.055	13120.466	2	7619.596 ^A	-1	5.341	6.286	...	
		3-4	1.43	12673.633	12670.167	-2	7890.397 ^D	1	5.273	6.251	...	II
1930	$x^5P^\circ - e^7P$	2-3	1.11	12900.750	12897.222	-7	7751.487 ^A	4	5.314	6.275	...	
1931	$x^5P^\circ - e^5G$	3-4	1.57	11838.744	11835.504	-6	8446.842 ^D	4	5.273	6.320	...	I
1932	$x^5P^\circ - e^7G$	3-4	1.79	11360.845	11357.735	9	8802.162 ^A	-7	5.273	6.365	...	
1933	$x^5P^\circ - f^5F$	1-2	1.30	11592.876	11589.703	4	8625.987 ^A	-3	5.341	6.410	...	
		2-3	1.64	11435.983	11432.853	-7	8744.329 ^A	5	5.314	6.398	...	
		3-4	1.91	11199.551	11196.485	0	8928.929 ^A	0	5.273	6.380	...	
		3-3	1.45	11023.706	11020.688	2	9071.359 ^A	-2	5.273	6.398	...	
1934	$x^5P^\circ - e^5S$	2-2	1.51	12064.006	12060.706	16	8289.120 ^B	-11	5.314	6.341	...	
		3-2	1.76	11606.088	11602.912	1	8616.167 ^D	-1	5.273	6.341	...	Ne
1935	$x^5P^\circ - e^5P$	2-3	1.64	11139.011	11135.962	4	8977.457 ^A	-3	5.314	6.427	...	
		1-2	1.66	11125.383	11122.337	-10	8988.454 ^A	8	5.341	6.455	...	
		3-3	1.87	10747.491	10744.547	0	9304.497 ^A	0	5.273	6.427	...	
1936	$x^5P^\circ - g^5F$	3-4	1.30	9207.3121	9204.7860	-1.7	10860.933 ^B	2	5.273	6.620	...	
1937	$x^5P^\circ - h^5D$	3-4	0.70	9414.0657	9411.4836	-0.9	10622.403 ^B	1	5.273	6.590	...	
1938	$x^5P^\circ - f^5P$	2-3	1.28	9707.9669	9705.3052	-3.8	10300.818 ^B	4	5.314	6.591	...	
		3-3	2.62	9409.2328	9406.6521	-8.0	10627.859 ^D	9	5.273	6.591	...	II
		3-2	3.62	9061.2467	9058.7601	-0.8	11036.009 ^B	1	5.273	6.641	...	
		2-1	1.00	9037.1594	9034.6793	-3.3	11065.424 ^B	4	5.314	6.686	...	
1939	$x^5P^\circ - f^5G$	1-2	1.41	8852.1803	8849.7502	0.8	11296.652 ^C	-1	5.341	6.741	...	
		2-2	3.06	8683.6446	8681.2601	-3.0	11515.902 ^C	4	5.314	6.741	...	
1940	$x^5P^\circ - s^6D6s^5D$	3-3	1.04	8108.9236	8106.6945	-2.6	12332.093 ^B	4	5.273	6.802	...	
1941	$y^5G^\circ - e^5F$	5-5	1.84	24428.441	24421.777	0	4093.589 ^D	0	5.320	5.828	...	II
		6-5	2.68	23690.204	23683.741	-6	4221.154 ^A	1	5.304	5.828	...	
		4-4	1.63	22962.270	22956.005	-5	4354.970 ^A	1	5.334	5.874	...	
		5-4	2.23	22391.216	22385.106	0	4466.037 ^A	0	5.320	5.874	...	
		3-3	1.73	21654.161	21648.252	-5	4618.050 ^A	1	5.348	5.921	...	
		4-3	2.01	21130.239	21124.473	-9	4732.554 ^A	2	5.334	5.921	...	
		2-2	1.54	20718.307	20712.653	-9	4826.649 ^A	2	5.357	5.956	...	
		3-2	1.99	20411.558	20405.987	0	4899.185 ^A	0	5.348	5.956	...	
		2-1	1.86	19954.905	19949.459	-4	5011.299 ^A	1	5.357	5.978	...	
1942	$y^5G^\circ - e^3F$	5-4	1.64	19805.808	19800.402	-4	5049.024 ^A	1	5.320	5.946	...	
		4-3	1.46	18152.503	18147.547	-10	5508.882 ^A	3	5.334	6.017	...	
		3-2	0.60	17268.470	17263.754	-3	5790.901 ^A	1	5.348	6.066	...	
1943	$y^5G^\circ - e^5G$	5-6	1.08	13138.826	13135.233	-5	7611.030 ^A	3	5.320	6.264	...	
1944	$y^5G^\circ - g^5F$	5-5	1.32	9852.7972	9850.0963	-2.9	10149.402 ^A	3	5.320	6.579	...	
		6-5	1.52	9730.4973	9727.8295	-2.8	10276.967 ^A	3	5.304	6.579	...	
		3-3	0.78	9351.4822	9348.9170	-4.4	10693.492 ^B	5	5.348	6.674	...	
		2-2	1.54	9051.8340	9049.3499	-8.2	11047.485 ^B	10	5.357	6.727	...	
1945	$y^5G^\circ - h^5D$	5-4	1.34	9762.5532	9759.8767	4.8	10243.222 ^B	-5	5.320	6.590	...	
		4-3	1.72	9503.1343	9500.5281	1.8	10522.844 ^A	-2	5.334	6.639	...	
		3-2	1.49	9234.3146	9231.7812	0.0	10829.174 ^A	0	5.348	6.691	...	
1946	$y^5G^\circ - f^5G$	5-6	1.23	9749.2236	9746.5508	0.0	10257.227 ^B	0	5.320	6.592	...	
		4-5	0.95	9747.8124	9745.1399	-9.5	10258.712 ^B	10	5.334	6.606	...	
		5-5	1.61	9643.4145	9640.7703	0.0	10369.771 ^A	0	5.320	6.606	...	
		6-6	2.31	9629.4659	9626.8254	0.0	10384.792 ^A	0	5.304	6.592	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1947	$y^5G^\circ - e^5H$	3-4	0.70	9406.0166	9403.4367	-1.8	10631.493 ^B	2	5.348	6.666	...	I
		4-4	1.18	9305.7969	9303.2441	1.7	10745.990 ^B	-2	5.334	6.666	...	
		3-3	1.04	9071.4064	9068.9170	1.6	11023.649 ^B	-2	5.348	6.715	...	
		5-6	1.94	9577.5643	9574.9379	1.8	10441.068 ^A	-2	5.320	6.615	...	
		6-7	2.65	9532.1343	9529.5202	0.0	10490.830 ^A	0	5.304	6.605	...	
		4-5	1.97	9215.5095	9212.9811	-0.8	10851.272 ^A	1	5.334	6.679	...	
		3-4	2.19	9009.2363	9006.7637	4.1	11099.720 ^D	-5	5.348	6.724	...	
		2-3	1.84	8864.4852	8862.0518	1.6	11280.971 ^B	-2	5.357	6.756	...	
		4-5	0.70	9331.4475	9328.8878	0.0	10716.451 ^B	0	5.334	6.663	...	
		5-5	1.85	9235.7253	9233.1914	0.0	10827.520 ^A	0	5.320	6.663	...	
1948	$y^5G^\circ - e^3G$ (1342)	4-4	1.74	9055.0790	9052.5940	4.9	11043.526 ^A	-6	5.334	6.703	...	
		2-3	1.83	8953.0733	8950.6159	6.4	11169.349 ^B	-8	5.357	6.742	...	
		3-3	0.78	9425.0618	9422.4767	1.8	10610.010 ^B	-2	5.348	6.664	...	
		3-2	1.00	9149.7294	9147.2188	0.0	10929.285 ^B	0	5.348	6.703	...	
1949	$y^5G^\circ - f^3D$	3-2	1.00	9149.7294	9147.2188	0.0	10929.285 ^B	0	5.348	6.703	...	
		3-2	1.00	9149.7294	9147.2188	0.0	10929.285 ^B	0	5.348	6.703	...	
1950	$y^5G^\circ - e^3H$	5-6	2.03	9150.2175	9147.7068	0.0	10928.702 ^A	0	5.320	6.675	...	II
		4-5	1.51	8893.8457	8891.4044	0.0	11243.730 ^D	0	5.334	6.728	...	
1951	$y^5G^\circ - 61724^e$	3-4	2.00	5380.0068	5378.5112	0.9	18587.337 ^C	-3	5.348	7.653	...	
		5-4	2.46	5315.5033	5314.0249	4.5	18812.894 ^B	-16	5.320	7.653	...	
1952	$e^7D - w^5G^\circ$	3-2	1.59	22745.189	22738.984	-41	4396.534 ^B	8	5.385	5.930	...	I
1953	$e^7D - v^5F^\circ$	4-5	1.18	22508.388	22502.247	0	4442.788 ^B	0	5.351	5.902	...	
		3-4	0.90	22245.114	22239.045	0	4495.369 ^B	0	5.385	5.942	...	
		5-4	1.69	19553.629	19548.292	4	5114.140 ^D	-1	5.308	5.942	...	
1954	$e^7D - v^5P^\circ$	4-3	1.18	20819.189	20813.507	-13	4803.261 ^A	3	5.351	5.947	...	
1955	$e^7D - x^3P^\circ$	3-2	1.89	20533.775	20528.171	-42	4870.025 ^A	10	5.385	5.989	...	
1956	$e^7D - n^7D^\circ$	3-4	3.19	16328.919	16324.459	5	6124.104 ^A	-2	5.385	6.144	...	
		2-3	3.22	16202.930	16198.505	3	6171.723 ^A	-1	5.410	6.175	...	
		4-5	3.05	16157.662	16153.249	3	6189.014 ^A	-1	5.351	6.119	...	
		1-2	3.15	16013.989	16009.615	5	6244.540 ^A	-2	5.426	6.200	...	
		3-3	3.17	15697.039	15692.751	2	6370.628 ^A	-1	5.385	6.175	...	
		2-2	1.60	15686.306	15682.021	2	6374.987 ^A	-1	5.410	6.200	...	
		1-1	2.99	15652.791	15648.515	5	6388.637 ^A	-2	5.426	6.218	...	
		4-4	3.76	15636.221	15631.950	2	6395.407 ^A	-1	5.351	6.144	...	
		2-1	3.58	15339.578	15335.387	2	6519.084 ^A	-1	5.410	6.218	...	
		5-5	4.32	15298.742	15294.562	2	6536.485 ^A	-1	5.308	6.119	...	
		3-2	3.84	15211.686	15207.530	5	6573.893 ^A	-2	5.385	6.200	...	
		4-3	3.96	15055.862	15051.749	0	6641.931 ^A	0	5.351	6.175	...	
		5-4	3.99	14830.464	14826.412	2	6742.877 ^A	-1	5.308	6.144	...	
1957	$e^7D - n^7F^\circ$	1-2	3.29	14723.682	14719.659	7	6791.779 ^A	-3	5.426	6.268	...	
		2-3	3.62	14706.987	14702.968	4	6799.489 ^A	-2	5.410	6.253	...	
		1-1	3.49	14569.919	14565.937	-2	6863.456 ^A	1	5.426	6.277	...	
		3-4	4.08	14559.018	14555.039	4	6868.595 ^A	-2	5.385	6.237	...	
		4-5	4.22	14516.175	14512.208	2	6888.867 ^A	-1	5.351	6.205	...	
		1-0	3.10	14501.786	14497.823	2	6895.702 ^A	-1	5.426	6.281	...	
		2-2	3.65	14446.220	14442.272	4	6922.226 ^A	-2	5.410	6.268	...	
		5-6	4.34	14404.479	14400.542	2	6942.285 ^A	-1	5.308	6.169	...	
		2-1	2.89	14298.165	14294.258	-2	6993.904 ^A	1	5.410	6.277	...	
		3-3	3.75	14288.992	14285.087	6	6998.394 ^A	-3	5.385	6.253	...	
		3-2	2.48	14042.711	14038.873	6	7121.132 ^A	-3	5.385	6.268	...	
		4-4	1.72	14005.804	14001.976	2	7139.897 ^A	-1	5.351	6.237	...	
		5-5	2.96	13819.146	13815.369	4	7236.337 ^A	-2	5.308	6.205	...	
		5-4	3.14	13355.828	13352.176	4	7487.368 ^A	-2	5.308	6.237	...	
1958	$e^7D - n^7P^\circ$	3-4	2.41	14812.372	14808.325	7	6751.113 ^A	-3	5.385	6.222	...	
		2-3	3.57	14296.256	14292.349	2	6994.838 ^A	-1	5.410	6.277	...	
		4-4	3.92	14240.115	14236.223	4	7022.415 ^A	-2	5.351	6.222	...	
		1-2	3.45	14011.118	14007.288	6	7137.189 ^A	-3	5.426	6.311	...	
		3-3	3.39	13900.969	13897.169	4	7193.743 ^D	-2	5.385	6.277	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1959	$e^7D-u^5F^\circ$	2-2	3.27	13759.632	13755.871	6	7267.636 ^A	-3	5.410	6.311	...	
		5-4	3.64	13568.730	13565.021	4	7369.886 ^A	-2	5.308	6.222	...	
		4-3	3.38	13395.764	13392.102	0	7465.046 ^A	0	5.351	6.277	...	
		3-2	2.92	13393.080	13389.419	5	7466.542 ^A	-3	5.385	6.311	...	
		4-5	1.67	12733.442	12729.959	-3	7853.336 ^A	2	5.351	6.325	...	
		3-4	1.80	12583.643	12580.201	10	7946.824 ^A	-6	5.385	6.370	...	
1960	$e^7D-^4F5p^5D^\circ$	5-5	0.85	12193.929	12190.593	4	8200.802 ^A	-3	5.308	6.325	...	
		3-3	2.37	9661.7256	9659.0764	2.8	10350.118 ^D	-3	5.385	6.668	...	I
		2-2	1.65	9176.7366	9174.2188	-0.8	10897.120 ^C	1	5.410	6.761	...	
1961	$e^7D-t^5P^\circ$	1-2	0.78	9663.4743	9660.8247	3.7	10348.245 ^B	-4	5.426	6.709	...	
1962	$e^7D-s^3G^\circ$	3-3	1.28	8093.1921	8090.9673	2.0	12356.064 ^C	-3	5.385	6.917	...	
1963	$e^7D-s^6D6p^7D^\circ$	5-5	1.62	7516.2686	7514.1994	0.6	13304.474 ^B	-1	5.308	6.958	...	
		4-4	1.40	7488.7227	7486.6610	2.2	13353.412 ^B	-4	5.351	7.007	...	
1964	$e^7D-s^6D6p^7P^\circ$	4-4	1.36	7474.8091	7472.7512	0.6	13378.268 ^B	-1	5.351	7.010	...	
1965	$e^7D-s^6D_{4,5}4f [2.5]^\circ$	3-2	1.65	7493.4898	7491.4268	-4.5	13344.917 ^B	8	5.385	7.040	...	
1966	$e^7D-s^6D_{3,5}4f [3.5]^\circ$	2-3	2.24	7398.5445	7396.5071	-2.2	13516.172 ^C	4	5.410	7.085	...	
		4-4	1.85	7150.1186	7148.1482	2.0	13985.782 ^B	-4	5.351	7.085	...	
1967	$e^7D-s^6D_{2,5}4f [1.5]^\circ$	2-1	3.87	7250.1048	7248.1075	-0.5	13792.904 ^B	1	5.410	7.120	...	
1968	$e^7D-s^6D_{0,5}4f [3.5]^\circ$	4-3	1.70	6857.9650	6856.0732	8.9	14581.585 ^D	-19	5.351	7.159	...	
1969	$e^7D-s^4D5p^3F^\circ$	3-2	1.85	6440.2390	6438.4596	-2.5	15527.374 ^D	6	5.385	7.310	...	
1970	$e^7D-Fsp1^3F^\circ$	5-4	0.30	5787.1244	5785.5201	1.3	17279.739 ^C	-4	5.308	7.451	...	
1971	$z^5H^\circ-e^5F$	4-4	1.34	23424.497	23418.107	11	4269.035 ^B	-2	5.345	5.874	...	
		5-4	1.85	22798.476	22792.256	0	4386.258 ^A	0	5.330	5.874	...	
		4-3	1.69	21521.019	21515.147	-5	4646.620 ^A	1	5.345	5.921	...	
1972	$z^5H^\circ-e^3F$	5-4	1.08	20123.777	20118.285	-12	4969.246 ^B	3	5.330	5.946	...	
1973	$z^5H^\circ-f^5G$	5-5	0.70	9718.1777	9715.5132	-4.7	10289.995 ^B	5	5.330	6.606	...	
1974	$z^5H^\circ-e^5H$	5-6	1.28	9651.3060	9648.6597	-1.9	10361.292 ^A	2	5.330	6.615	...	
		4-5	1.71	9289.0729	9286.5246	0.9	10765.337 ^A	-1	5.345	6.679	...	
1975	$z^5H^\circ-e^3G$	5-5	1.04	9304.2816	9301.7293	0.0	10747.740 ^A	0	5.330	6.663	...	
		4-4	1.20	9126.0843	9123.5802	-2.5	10957.602 ^B	3	5.345	6.703	...	
1976	$z^5H^\circ-e^3H$	5-6	1.77	9217.5048	9214.9759	-1.7	10848.923 ^A	2	5.330	6.675	...	
		4-5	1.71	8962.3419	8959.8820	0.0	11157.798 ^B	0	5.345	6.728	...	
1977	$z^5I^\circ-e^7P$	4-4	0.70	14219.530	14215.644	2	7032.581 ^B	-1	5.386	6.258	...	
1978	$z^5I^\circ-e^5H$	5-6	1.64	10108.288	10105.517	-5	9892.872 ^A	5	5.388	6.615	...	
1979	$z^5I^\circ-s^6D5d^5G$	4-3	1.70	7345.9701	7343.9468	2.2	13612.906 ^B	-4	5.386	7.074	...	
1980	$w^5D^\circ-e^5F$	3-4	2.40	28941.156	28933.263	-8	3455.287 ^A	1	5.446	5.874	...	
		4-5	2.57	28522.524	28514.745	0	3506.001 ^A	0	5.393	5.828	...	
		2-3	2.17	27996.218	27988.582	-16	3571.911 ^A	2	5.478	5.921	...	
		0-1	1.74	26578.836	26571.586	-14	3762.392 ^B	2	5.512	5.978	...	
		3-3	1.71	26090.110	26082.993	-7	3832.870 ^A	1	5.446	5.921	...	
		4-4	1.90	25783.496	25776.463	0	3878.450 ^A	0	5.393	5.874	...	
1981	$w^5D^\circ-e^7F$	1-2	1.00	14451.086	14447.137	-6	6919.895 ^A	3	5.506	6.364	...	
		2-3	1.36	14357.050	14353.126	2	6965.219 ^A	-1	5.478	6.341	...	
		2-2	0.95	13991.054	13987.230	0	7147.424 ^A	0	5.478	6.364	...	
		3-3	1.18	13838.572	13834.789	2	7226.179 ^A	-1	5.446	6.341	...	
		4-4	0.85	12999.222	12995.667	-2	7692.768 ^A	1	5.393	6.347	...	
1982	$w^5D^\circ-f^7D$	0-1	0.78	15176.416	15172.269	5	6589.171 ^A	-2	5.512	6.329	...	
		1-1	0.48	15067.182	15063.065	14	6636.941 ^D	-6	5.506	6.329	...	II
		2-3	1.61	14974.121	14970.030	0	6678.188 ^A	0	5.478	6.306	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1983	$w^5D^o-f^5D$	2-2	1.20	14673.482	14669.472	2	6815.015 ^B	-1	5.478	6.323	...	
		2-1	1.51	14567.752	14563.771	4	6864.477 ^A	-2	5.478	6.329	...	
		3-4	0.85	14523.642	14519.673	8	6885.325 ^A	-4	5.446	6.299	...	
		3-3	1.83	14410.991	14407.052	-2	6939.148 ^A	1	5.446	6.306	...	
		3-2	0.85	14132.324	14128.461	0	7075.977 ^A	0	5.446	6.323	...	
		4-4	1.38	13682.707	13678.967	-6	7308.495 ^B	3	5.393	6.299	...	
		1-2	1.40	15904.678	15900.334	3	6287.458 ^A	-1	5.506	6.286	...	
		0-1	1.18	15573.490	15569.236	0	6421.168 ^A	0	5.512	6.308	...	
		1-1	1.08	15458.478	15454.255	0	6468.942 ^A	0	5.506	6.308	...	
		2-2	1.68	15349.213	15345.019	0	6514.992 ^A	0	5.478	6.286	...	
1984	$w^5D^o-e^7P$	1-0	1.74	15221.043	15216.884	-2	6569.852 ^A	1	5.506	6.321	...	
		3-3	2.12	15124.641	15120.509	2	6611.727 ^A	-1	5.446	6.265	-0.80 ^a	
		2-1	1.92	14933.232	14929.151	-2	6696.474 ^A	1	5.478	6.308	...	
		3-2	2.13	14758.076	14754.043	0	6775.951 ^A	0	5.446	6.286	...	
		4-4	2.56	14443.288	14439.341	0	6923.631 ^A	0	5.393	6.251	-1.14 ^a	
		4-3	1.94	14214.861	14210.976	0	7034.891 ^A	0	5.393	6.265	...	
		2-3	1.00	15557.833	15553.583	5	6427.630 ^A	-2	5.478	6.275	...	
		3-3	2.28	14950.829	14946.744	2	6688.592 ^A	-1	5.446	6.275	...	
		3-2	1.20	14412.004	14408.066	-2	6938.660 ^A	1	5.446	6.306	...	
		4-4	2.54	14335.308	14331.390	-2	6975.783 ^A	1	5.393	6.258	-0.94 ^a	
1985	$w^5D^o-e^5G$	4-3	1.92	14061.226	14057.383	2	7111.755 ^A	-1	5.393	6.275	...	
		1-2	1.34	14369.911	14365.984	0	6958.985 ^A	0	5.506	6.369	...	
		2-3	1.52	14213.855	14209.970	-4	7035.389 ^A	2	5.478	6.350	...	
		3-4	2.08	14170.508	14166.635	2	7056.910 ^A	-1	5.446	6.320	...	
1986	$w^5D^o-e^7G$	4-5	2.50	13880.462	13876.668	-13	7204.371 ^A	7	5.393	6.286	...	
		2-3	2.44	13742.155	13738.398	21	7276.879 ^A	-11	5.478	6.380	...	
		3-4	1.91	13491.196	13487.508	2	7412.241 ^A	-1	5.446	6.365	...	
1987	$w^5D^o-f^5F$	4-5	2.31	12938.205	12934.667	0	7729.047 ^A	0	5.393	6.351	...	
		1-2	2.10	13710.174	13706.427	0	7293.853 ^A	0	5.506	6.410	...	
		0-1	2.00	13706.961	13703.214	-2	7295.563 ^A	1	5.512	6.417	...	
		1-1	1.86	13617.787	13614.064	0	7343.337 ^A	0	5.506	6.417	...	
		2-3	2.35	13476.226	13472.542	0	7420.475 ^A	0	5.478	6.398	...	
		2-2	1.96	13295.421	13291.786	0	7521.386 ^A	0	5.478	6.410	...	
		3-4	2.60	13264.356	13260.730	0	7539.001 ^D	0	5.446	6.380	-0.64 ^a	I
		4-5	2.77	13151.518	13147.922	0	7603.685 ^A	0	5.393	6.336	...	
		3-3	1.92	13018.402	13014.842	2	7681.434 ^A	-1	5.446	6.398	...	
		4-4	1.18	12559.398	12555.962	-2	7962.165 ^A	1	5.393	6.380	...	
1988	$w^5D^o-e^5S$	1-2	0.90	14841.752	14837.696	2	6737.749 ^A	-1	5.506	6.341	...	
		2-2	1.04	14356.920	14352.997	-2	6965.282 ^A	1	5.478	6.341	...	
1989	$w^5D^o-e^3D$	0-1	0.60	13190.939	13187.333	-5	7580.961 ^A	3	5.512	6.452	...	
1990	$w^5D^o-g^5D$	3-4	1.45	13462.893	13459.212	0	7427.824 ^A	0	5.446	6.366	...	
		2-3	1.00	13180.560	13176.956	-5	7586.931 ^A	3	5.478	6.419	...	
		0-1	0.70	12894.219	12890.693	-3	7755.413 ^A	2	5.512	6.474	...	
		3-3	0.90	12742.281	12738.796	2	7847.888 ^A	-1	5.446	6.419	...	
		2-1	0.70	12452.194	12448.788	6	8030.713 ^A	-4	5.478	6.474	...	
		3-2	1.34	12304.433	12301.067	5	8127.152 ^A	-3	5.446	6.453	...	
		4-3	1.26	12090.367	12087.059	7	8271.047 ^A	-5	5.393	6.419	...	
1991	$w^5D^o-e^7S$	2-3	1.04	13538.275	13534.574	5	7386.465 ^A	-3	5.478	6.394	...	
1992	$w^5D^o-e^5P$	0-1	1.32	13226.236	13222.619	9	7560.730 ^A	-5	5.512	6.449	...	
		1-1	1.46	13143.183	13139.589	3	7608.507 ^A	-2	5.506	6.449	...	
		2-3	1.56	13065.729	13062.157	-2	7653.610 ^A	1	5.478	6.427	...	
		1-2	1.85	13061.132	13057.560	9	7656.304 ^A	-5	5.506	6.455	...	
		2-2	1.79	12684.171	12680.701	-2	7883.842 ^A	1	5.478	6.455	...	
		3-3	1.89	12634.923	12631.467	-2	7914.571 ^A	1	5.446	6.427	...	
		3-2	1.59	12277.773	12274.415	2	8144.799 ^A	-1	5.446	6.455	...	
		4-3	1.94	11993.667	11990.386	0	8337.733 ^A	0	5.393	6.427	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
1993	$w^5D^o - g^5F$	3-4	1.98	10558.543	10555.651	1	9471.003 ^A	-1	5.446	6.620	...	
		2-3	1.97	10365.544	10362.704	-2	9647.347 ^A	2	5.478	6.674	...	
		4-4	1.00	10106.965	10104.195	0	9894.167 ^B	0	5.393	6.620	...	
		3-3	1.65	10092.541	10089.775	-1	9908.307 ^A	1	5.446	6.674	...	
		0-1	1.63	10073.280	10070.519	-2	9927.253 ^A	2	5.512	6.743	...	
		1-1	1.46	10025.035	10022.287	-2	9975.027 ^A	2	5.506	6.743	...	
		2-2	1.45	9926.6727	9923.9517	3.0	10073.869 ^B	-3	5.478	6.727	...	
1994	$w^5D^o - h^5D$ (1346)	3-3	1.74	10391.591	10388.744	-1	9623.165 ^A	1	5.446	6.639	...	
		4-4	2.26	10356.644	10353.807	1	9655.637 ^A	-1	5.393	6.590	...	
		1-1	1.60	10286.596	10283.778	1	9721.388 ^A	-1	5.506	6.711	...	
		2-2	1.38	10221.777	10218.976	-1	9783.034 ^B	1	5.478	6.691	...	
		2-1	1.49	10051.337	10048.582	-3	9948.925 ^D	3	5.478	6.711	...	Ne
		3-2	1.86	9956.2017	9953.4727	1.0	10043.991 ^A	-1	5.446	6.691	...	
		4-3	1.70	9953.8866	9951.1583	-1.0	10046.327 ^A	1	5.393	6.639	...	
1995	$w^5D^o - f^5P$ (1347)	3-2	2.09	10366.902	10364.062	-1	9646.083 ^A	1	5.446	6.641	...	
		4-3	2.54	10350.802	10347.966	-1	9661.087 ^A	1	5.393	6.591	...	
		2-1	1.74	10265.276	10262.463	-8	9741.579 ^A	8	5.478	6.686	...	
1996	$w^5D^o - f^5G$ (1348)	3-4	2.00	10156.088	10153.305	-1	9846.310 ^A	1	5.446	6.666	...	
		1-2	1.87	10035.609	10032.858	-1	9964.517 ^A	1	5.506	6.741	...	
		2-3	1.86	10022.539	10019.792	-1	9977.511 ^A	1	5.478	6.715	...	
		3-3	0.90	9767.0824	9764.4047	-1.9	10238.472 ^B	2	5.446	6.715	...	
1997	$w^5D^o - e^3G$	3-4	0.90	9858.1929	9855.4905	1.0	10143.847 ^D	-1	5.446	6.703	...	II
		4-5	1.26	9765.6879	9763.0106	-2.9	10239.934 ^A	3	5.393	6.663	...	
1998	$w^5D^o - f^3D$	2-3	1.00	10456.018	10453.153	1	9563.870 ^A	-1	5.478	6.664	...	
		3-3	1.18	10178.290	10175.500	-3	9824.833 ^B	3	5.446	6.664	...	
		0-1	1.70	10009.602	10006.858	5	9990.407 ^B	-5	5.512	6.751	...	
		1-1	0.78	9961.9612	9959.2307	2.0	10038.184 ^B	-2	5.506	6.751	...	
1999	$w^5D^o - g^7D$	2-3	2.14	9783.6234	9780.9412	-11.5	10221.162 ^D	12	5.478	6.745	...	II
2000	$w^5D^o - s^6D5d^7F$	3-4	1.08	7471.2484	7469.1914	3.3	13384.644 ^C	-6	5.446	7.105	...	
2001	$w^5D^o - s^4D4d^5P$	4-3	2.26	6674.5226	6672.6801	1.8	14982.345 ^B	-4	5.393	7.251	...	
2002	$w^5D^o - s^6D7s^5D$	3-2	1.85	6616.7766	6614.9497	-3.1	15113.099 ^C	7	5.446	7.319	...	
2003	$w^5D^o - s^4D4d^3D$	4-3	2.34	6586.3987	6584.5799	4.8	15182.804 ^B	-11	5.393	7.275	...	
2004	$w^5D^o - s^4D4d^3F$	3-4	2.11	6502.2749	6500.4787	0.4	15379.233 ^D	-1	5.446	7.352	...	II
2005	$v^5D^o - e^5F$	4-5	2.28	33523.512	33514.371	0	2982.981 ^A	0	5.458	5.828	...	
		3-4	2.04	31135.683	31127.192	-10	3211.749 ^B	1	5.476	5.874	...	
2006	$v^5D^o - e^7F$	4-5	0.30	14682.319	14678.307	-2	6810.913 ^B	1	5.458	6.302	...	
2007	$v^5D^o - f^7D$	2-3	1.81	16134.924	16130.517	10	6197.736 ^A	-4	5.537	6.306	...	
		0-1	1.00	16074.035	16069.645	-16	6221.213 ^B	6	5.558	6.329	...	
		1-1	1.28	15904.941	15900.597	15	6287.354 ^B	-6	5.549	6.329	...	
		2-1	0.48	15664.069	15659.790	-12	6384.037 ^A	5	5.537	6.329	...	
2008	$v^5D^o - f^5D$	1-2	0.60	16841.053	16836.454	6	5937.871 ^D	-2	5.549	6.286	...	II
		2-2	1.00	16571.257	16566.732	-3	6034.545 ^A	1	5.537	6.286	...	
		0-1	1.08	16520.184	16515.673	0	6053.201 ^A	0	5.558	6.308	...	
		1-1	0.85	16341.596	16337.133	5	6119.353 ^A	-2	5.549	6.308	...	
		2-1	1.26	16087.443	16083.049	-5	6216.028 ^A	2	5.537	6.308	...	
		1-0	1.15	16076.485	16072.094	3	6220.265 ^A	-1	5.549	6.321	...	
2009	$v^5D^o - e^7P$	4-4	0.30	15497.244	15493.011	5	6452.760 ^B	-2	5.458	6.258	...	
2010	$v^5D^o - e^5G$	4-5	0.90	14967.050	14962.961	2	6681.343 ^A	-1	5.458	6.286	...	
		3-4	1.23	14677.016	14673.005	-2	6813.374 ^A	1	5.476	6.320	...	
		4-4	0.85	14373.898	14369.970	-4	6957.055 ^B	2	5.458	6.320	...	
		3-3	0.78	14178.747	14174.872	0	7052.809 ^A	0	5.476	6.350	...	
2011	$v^5D^o - f^5F$	0-1	1.77	14435.019	14431.075	0	6927.597 ^A	0	5.558	6.417	...	
		2-3	2.04	14409.163	14405.226	0	6940.028 ^A	0	5.537	6.398	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2012	$v^5D^o-e^5S$	1-2	2.11	14400.368	14396.432	2	6944.267 ^D	-1	5.549	6.410	...	II
		1-1	1.38	14298.476	14294.569	-2	6993.752 ^A	1	5.549	6.417	...	
		3-4	1.32	13707.153	13703.406	6	7295.461 ^A	-3	5.476	6.380	...	
		1-2	0.30	15653.942	15649.666	-7	6388.167 ^B	3	5.549	6.341	...	
		2-2	0.70	15420.595	15416.382	2	6484.834 ^A	-1	5.537	6.341	...	
2013	$v^5D^o-e^3D$	2-3	1.00	15082.612	15078.492	-14	6630.151 ^A	6	5.537	6.359	...	
2014	$v^5D^o-g^5D$	2-2	0.78	13539.590	13535.888	-2	7385.748 ^A	1	5.537	6.453	...	
2015	$v^5D^o-e^7S$	3-3	0.30	13506.395	13502.702	-18	7403.900 ^D	10	5.476	6.394	...	II
2016	$v^5D^o-e^5P$	2-3	0.85	13940.851	13937.041	-2	7173.163 ^A	1	5.537	6.427	...	
		0-1	1.20	13902.857	13899.057	6	7192.766 ^A	-3	5.558	6.449	...	
		1-1	1.26	13776.152	13772.386	2	7258.921 ^A	-1	5.549	6.449	...	
		1-2	1.04	13686.033	13682.292	6	7306.719 ^A	-3	5.549	6.455	...	
		2-1	1.67	13595.109	13591.393	13	7355.586 ^A	-7	5.537	6.449	...	
		2-2	0.85	13507.316	13503.623	-2	7403.395 ^D	1	5.537	6.455	...	
											...	II
2017	$v^5D^o-g^5F$	3-4	1.45	10837.210	10834.242	-2	9227.467 ^A	2	5.476	6.620	...	Ne
		1-2	2.10	10529.912	10527.028	-1	9496.755 ^D	1	5.549	6.727	...	
2018	$v^5D^o-h^5D$	4-4	1.68	10949.759	10946.760	-2	9132.621 ^A	2	5.458	6.590	...	
		3-3	0.95	10661.402	10658.482	-5	9379.629 ^B	4	5.476	6.639	...	
2019	$v^5D^o-f^5P$	4-3	1.69	10943.237	10940.240	2	9138.064 ^A	-2	5.458	6.591	...	
		3-2	1.30	10635.413	10632.500	-7	9402.549 ^A	6	5.476	6.641	...	
2020	$v^5D^o-^4F6s^5F$	3-4	1.08	8097.1581	8094.9322	-1.3	12350.012 ^B	2	5.476	7.007	...	
2021	$w^5F^o-e^5F$	5-5	2.58	36207.981	36198.109	-13	2761.822 ^A	1	5.485	5.828	...	
		4-4	2.01	33750.933	33741.730	-11	2962.881 ^B	1	5.507	5.874	...	
		2-3	1.87	28817.713	28809.853	-42	3470.088 ^B	5	5.491	5.921	...	
		1-2	1.65	27334.876	27327.421	0	3658.330 ^B	0	5.502	5.956	...	
2022	$w^5F^o-e^7F$	4-5	1.30	15580.294	15576.038	0	6418.364 ^D	0	5.507	6.302	...	II
		3-3	0.00	15157.219	15153.078	-7	6597.516 ^B	3	5.523	6.341	...	II
		3-2	0.60	14749.904	14745.874	26	6779.705 ^D	-12	5.523	6.364	...	
2023	$w^5F^o-f^7D$	5-5	1.04	16301.961	16297.509	-21	6134.231 ^B	8	5.485	6.246	...	
		3-3	0.90	15846.650	15842.321	-5	6310.482 ^B	2	5.523	6.306	...	
2024	$w^5F^o-f^5D$	3-3	0.90	16713.858	16709.293	6	5983.059 ^A	-2	5.523	6.265	...	
2025	$w^5F^o-e^7P$	3-3	0.78	16501.862	16497.355	8	6059.922 ^A	-3	5.523	6.275	...	
		2-2	1.34	15207.115	15202.961	7	6575.869 ^A	-3	5.491	6.306	...	
2026	$w^5F^o-e^5G$	5-6	2.08	15925.446	15921.096	0	6279.259 ^A	0	5.485	6.264	-0.92 ^a	
		4-5	1.08	15901.297	15896.954	0	6288.795 ^A	0	5.507	6.286	...	
		3-4	0.85	15556.355	15552.105	7	6428.241 ^A	-3	5.523	6.320	...	
		5-5	2.08	15479.423	15475.194	-12	6460.189 ^D	5	5.485	6.286	...	
		4-4	1.52	15233.445	15229.283	5	6564.503 ^A	-2	5.507	6.320	...	
		3-3	1.41	14997.738	14993.640	18	6667.672 ^A	-8	5.523	6.350	...	
		2-3	1.11	14422.605	14418.664	2	6933.560 ^A	-1	5.491	6.350	...	
		1-2	0.78	14302.464	14298.555	0	6991.802 ^D	0	5.502	6.369	...	
		2-2	0.70	14114.941	14111.083	-2	7084.691 ^A	1	5.491	6.369	...	
											...	I
2027	$w^5F^o-e^7G$	4-5	1.45	14676.789	14672.779	-2	6813.479 ^A	1	5.507	6.351	...	
		4-4	0.70	14451.211	14447.262	4	6919.835 ^A	-2	5.507	6.365	...	
2028	$w^5F^o-f^5F$	4-5	1.58	14951.891	14947.806	0	6688.117 ^A	0	5.507	6.336	...	
		5-5	1.38	14578.307	14574.323	-2	6859.507 ^A	1	5.485	6.336	...	
		3-4	1.80	14471.082	14467.128	2	6910.333 ^A	-1	5.523	6.380	...	
		2-3	1.08	13663.729	13659.994	4	7318.646 ^A	-2	5.491	6.398	...	
		1-2	1.46	13648.761	13645.030	-2	7326.672 ^A	1	5.502	6.410	...	
		2-2	0.70	13477.890	13474.205	0	7419.559 ^B	0	5.491	6.410	...	
2029	$w^5F^o-g^5D$	4-4	1.43	14418.743	14414.803	0	6935.417 ^D	0	5.507	6.366	...	II
		5-4	1.00	14071.022	14067.176	4	7106.804 ^A	-2	5.485	6.366	...	
		3-3	1.18	13851.913	13848.127	6	7219.219 ^B	-3	5.523	6.419	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2030	$w^5F^o - e^5P$	3-2	1.04	13336.011	13332.365	-12	7498.494 ^B	7	5.523	6.453	...	
		2-1	0.60	12612.109	12608.659	5	7928.888 ^A	-3	5.491	6.474	...	
2031	$w^5F^o - g^5F$	3-3	0.78	13725.136	13721.384	2	7285.902 ^B	-1	5.523	6.427	...	
2032	$w^5F^o - h^5D$ (1350)	5-5	1.86	11340.912	11337.807	-1	8817.633 ^A	1	5.485	6.579	...	
		5-4	1.36	11221.504	11218.432	-4	8911.461 ^A	3	5.485	6.590	...	
		4-3	1.40	10951.993	10948.994	-1	9130.758 ^A	1	5.507	6.639	...	
		3-2	1.04	10620.986	10618.077	5	9415.321 ^C	-4	5.523	6.691	...	
2033	$w^5F^o - f^5P$	1-1	1.30	10251.983	10249.174	-3	9754.210 ^D	3	5.502	6.711	...	II
		2-1	1.20	10373.719	10370.877	0	9639.744 ^B	0	5.491	6.686	...	
		5-6	1.49	11203.903	11200.835	-1	8925.461 ^A	1	5.485	6.592	...	
		3-4	1.49	10848.749	10845.778	-12	9217.652 ^B	10	5.523	6.666	...	
2034	$w^5F^o - f^5G$	4-4	1.20	10690.723	10687.795	0	9353.904 ^B	0	5.507	6.666	...	
		3-3	0.90	10406.050	10403.199	9	9609.794 ^B	-8	5.523	6.715	...	
		4-5	1.52	10724.594	10721.657	0	9324.362 ^A	0	5.507	6.663	...	
		5-6	1.32	8265.7068	8263.4353	-3.4	12098.179 ^B	5	5.485	6.985	...	
2037	$w^5F^o - s^6D5d^7G$	5-6	1.93	7916.8898	7914.7125	3.8	12631.223 ^A	-6	5.485	7.051	...	
		1-2	2.70	7649.7539	7647.6487	2.9	13072.316 ^A	-5	5.502	7.123	...	
2038	$y^5S^o - e^7F$	2-3	0.30	15066.971	15062.854	5	6637.034 ^A	-2	5.519	6.341	...	
2039	$y^5S^o - f^7D$	2-3	0.90	15748.019	15743.717	-5	6350.005 ^A	2	5.519	6.306	...	
2040	$y^5S^o - f^5D$	2-2	1.18	16163.421	16159.006	-5	6186.809 ^D	2	5.519	6.286	...	II
		2-1	1.34	15702.802	15698.513	-2	6368.290 ^A	1	5.519	6.308	...	
2041	$y^5S^o - f^5F$	2-3	1.23	14099.816	14095.962	0	7092.291 ^A	0	5.519	6.398	...	
2042	$y^5S^o - e^5S$	2-2	1.04	15066.832	15062.716	5	6637.095 ^A	-2	5.519	6.341	...	
2043	$y^5S^o - g^5D$	2-3	0.48	13776.482	13772.716	-4	7258.747 ^A	2	5.519	6.419	...	
2044	$y^5S^o - e^5P$	2-1	1.18	13319.380	13315.738	-2	7507.857 ^A	1	5.519	6.449	...	
2045	$y^5S^o - f^5G$	2-3	1.23	10363.420	10360.581	2	9649.324 ^B	-2	5.519	6.715	...	
2046	$y^5S^o - s^6D5d^7D$	2-1	1.74	8004.7773	8002.5763	3.8	12492.540 ^D	-6	5.519	7.067	...	I
2047	$y^5S^o - s^6D5d^5P$	2-2	1.30	7757.1587	7755.0246	1.2	12891.318 ^D	-2	5.519	7.117	...	
2048	$e^5D - u^5D^o$	4-4	2.98	48927.604	48914.267	0	2043.836 ^A	0	5.539	5.792	...	
2049	$e^5D - x^3F^o$	4-4	3.12	45205.177	45192.853	0	2212.136 ^A	0	5.539	5.813	...	
2050	$e^5D - w^5G^o$	3-4	3.20	39545.824	39535.042	94	2528.712 ^D	-6	5.587	5.900	...	I
		3-3	2.01	37995.249	37984.889	29	2631.908 ^B	-2	5.587	5.913	...	
		4-5	3.27	36453.497	36443.558	0	2743.221 ^A	0	5.539	5.879	...	
		4-4	2.21	34328.399	34319.038	12	2913.040 ^A	-1	5.539	5.900	...	
2051	$e^5D - v^5F^o$	2-3	2.90	35854.489	35844.713	13	2789.051 ^A	-1	5.620	5.966	...	
		1-1	2.84	35193.274	35183.678	25	2841.452 ^A	-2	5.642	5.995	...	
		3-4	3.09	34859.408	34849.903	24	2868.666 ^A	-2	5.587	5.942	...	
		2-2	2.89	34423.751	34414.365	12	2904.971 ^A	-1	5.620	5.981	...	
		3-3	2.71	32662.681	32653.774	11	3061.598 ^A	-1	5.587	5.966	...	
		3-2	2.17	31471.104	31462.522	0	3177.518 ^B	0	5.587	5.981	...	
		4-4	2.71	30740.958	30732.575	9	3252.989 ^A	-1	5.539	5.942	...	
		4-3	1.91	29019.784	29011.870	-34	3445.925 ^B	4	5.539	5.966	...	
2052	$e^5D - x^3G^o$	3-4	2.61	36353.232	36343.320	13	2750.787 ^A	-1	5.587	5.928	...	
		4-4	2.48	31896.776	31888.079	-10	3135.113 ^A	1	5.539	5.928	...	
		4-5	2.55	31670.184	31661.548	0	3157.544 ^A	0	5.539	5.931	...	
2053	$e^5D - v^5P^o$	2-3	2.21	37983.616	37973.260	-72	2632.714 ^B	5	5.620	5.947	...	
		1-2	2.36	37674.830	37664.558	14	2654.292 ^A	-1	5.642	5.971	...	
		0-1	2.67	37108.739	37098.621	28	2694.783 ^A	-2	5.653	5.987	...	
		1-1	2.77	35961.947	35952.142	26	2780.717 ^A	-2	5.642	5.987	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		2-2	2.91	35341.058	35331.422	12	2829.570 ^A	-1	5.620	5.971	...	
		3-3	2.90	34420.386	34411.001	0	2905.255 ^A	0	5.587	5.947	...	
		2-1	2.83	33829.545	33820.320	0	2955.996 ^A	0	5.620	5.987	...	
		3-2	3.12	32236.060	32227.270	10	3102.116 ^A	-1	5.587	5.971	...	
		4-3	3.28	30399.026	30390.736	0	3289.579 ^A	0	5.539	5.947	...	
2054	$e^5D-x^3P^o$	1-2	2.45	35771.929	35762.176	38	2795.488 ^A	-3	5.642	5.989	...	
		0-1	1.96	34234.253	34224.918	12	2921.051 ^B	-1	5.653	6.015	...	
		2-1	2.26	31424.178	31415.609	-10	3182.263 ^A	1	5.620	6.015	...	
		3-2	2.48	30832.689	30824.281	19	3243.311 ^A	-2	5.587	5.989	...	
2055	$e^5D-w^3F^o$	3-3	1.32	23914.542	23908.018	6	4181.556 ^B	-1	5.587	6.105	...	
		4-3	1.43	21901.587	21895.611	0	4565.879 ^A	0	5.539	6.105	...	
2056	$e^5D-v^3D^o$	2-2	1.56	25583.691	25576.713	39	3908.740 ^B	-6	5.620	6.105	...	
		4-3	1.64	22431.508	22425.387	5	4458.015 ^A	-1	5.539	6.092	...	
2057	$e^5D-n^7D^o$	2-2	2.00	21392.003	21386.166	14	4674.644 ^D	-3	5.620	6.200	...	I
2058	$e^5D-v^3G^o$	3-4	1.26	21898.302	21892.327	-43	4566.564 ^D	9	5.587	6.153	...	I
		4-5	1.18	20903.477	20897.773	9	4783.893 ^B	-2	5.539	6.132	...	
2059	$e^5D-n^7F^o$	2-3	0.48	19611.127	19605.774	15	5099.146 ^A	-4	5.620	6.253	...	
		3-4	0.60	19077.055	19071.848	-11	5241.899 ^B	3	5.587	6.237	...	
		2-1	1.40	18890.907	18885.750	29	5293.552 ^A	-8	5.620	6.277	...	
2060	$e^5D-w^3P^o$	1-0	1.76	22511.373	22505.231	-35	4442.199 ^D	7	5.642	6.193	...	Ne
		2-2	1.30	20605.989	20600.365	0	4852.958 ^A	0	5.620	6.222	...	
		3-2	1.04	19510.272	19504.947	-4	5125.505 ^A	1	5.587	6.222	...	
2061	$e^5D-u^5F^o$	2-3	3.35	15910.390	15906.044	0	6285.201 ^A	0	5.620	6.400	...	
		1-2	3.42	15827.144	15822.821	3	6318.259 ^A	-1	5.642	6.426	...	
		3-4	3.94	15822.464	15818.142	0	6320.128 ^A	0	5.587	6.370	...	
		4-5	4.09	15773.736	15769.427	2	6339.652 ^A	-1	5.539	6.325	...	
		0-1	3.20	15746.231	15741.930	10	6350.726 ^A	-4	5.653	6.440	...	
		1-1	2.98	15536.003	15531.758	7	6436.662 ^A	-3	5.642	6.440	...	
		2-2	3.22	15399.930	15395.723	2	6493.536 ^D	-1	5.620	6.426	...	I
		3-3	3.46	15249.139	15244.973	-2	6557.747 ^A	1	5.587	6.400	...	
		2-1	1.45	15124.158	15120.026	9	6611.938 ^A	-4	5.620	6.440	...	
		4-4	2.37	14915.464	14911.389	0	6704.451 ^A	0	5.539	6.370	...	
		3-2	2.04	14779.600	14775.561	2	6766.083 ^A	-1	5.587	6.426	...	
		4-3	2.77	14404.925	14400.988	-2	6942.070 ^A	1	5.539	6.400	...	
2062	$e^5D-x^3H^o$	3-4	2.59	15753.506	15749.203	2	6347.793 ^A	-1	5.587	6.374	...	
2063	$e^5D-t^5D^o$	3-4	2.05	16624.285	16619.745	6	6015.296 ^A	-2	5.587	6.332	...	
		2-3	2.12	16590.585	16586.054	0	6027.515 ^A	0	5.620	6.368	...	
		1-2	2.12	16337.608	16333.146	5	6120.847 ^A	-2	5.642	6.401	...	
		0-1	1.93	16044.241	16039.858	5	6232.766 ^A	-2	5.653	6.426	...	
		2-2	3.04	15882.787	15878.449	5	6296.124 ^A	-2	5.620	6.401	-1.02 ^a	
		3-3	3.40	15872.862	15868.526	0	6300.061 ^A	0	5.587	6.368	...	
		1-1	2.63	15826.035	15821.712	0	6318.702 ^A	0	5.642	6.426	...	
		4-4	3.94	15625.927	15621.659	5	6399.620 ^A	-2	5.539	6.332	...	
		1-0	2.96	15546.330	15542.083	2	6432.386 ^A	-1	5.642	6.440	...	
		2-1	3.39	15398.879	15394.672	0	6493.979 ^D	0	5.620	6.426	...	I
		3-2	3.48	15223.782	15219.622	2	6568.670 ^A	-1	5.587	6.401	-0.82 ^a	
		4-3	3.51	14960.239	14956.151	0	6684.385 ^A	0	5.539	6.368	...	
2064	$e^5D-v^3F^o$	2-3	1.57	16579.805	16575.277	5	6031.434 ^A	-2	5.620	6.368	...	
		3-4	2.05	16017.237	16012.862	0	6243.274 ^A	0	5.587	6.361	...	
		3-3	2.46	15862.994	15858.661	3	6303.980 ^A	-1	5.587	6.368	...	
		4-4	2.06	15088.425	15084.302	0	6627.597 ^A	0	5.539	6.361	...	
		4-3	2.58	14951.475	14947.390	2	6688.303 ^A	-1	5.539	6.368	...	
2065	$e^5D-u^3G^o$	4-5	0.48	14932.279	14928.200	7	6696.901 ^B	-3	5.539	6.369	...	
		3-3	0.48	14783.181	14779.141	0	6764.444 ^A	0	5.587	6.425	...	
2066	$e^5D-u^5P^o$	2-3	3.59	15727.889	15723.593	5	6358.132 ^A	-2	5.620	6.409	...	
		1-2	3.17	15538.491	15534.247	2	6435.631 ^A	-1	5.642	6.440	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		0-1	2.81	15347.995	15343.802	12	6515.509 ^A	-5	5.653	6.461	...	
		1-1	2.88	15148.198	15144.060	7	6601.445 ^D	-3	5.642	6.461	...	II
		2-2	3.05	15126.515	15122.382	2	6610.908 ^A	-1	5.620	6.440	...	
		3-3	3.02	15081.411	15077.291	2	6630.679 ^D	-1	5.587	6.409	...	I
		2-1	2.26	14756.397	14752.364	7	6776.722 ^A	-3	5.620	6.461	...	
		3-2	2.66	14527.590	14523.620	2	6883.454 ^A	-1	5.587	6.440	...	
		4-3	2.89	14255.163	14251.267	4	7015.002 ^A	-2	5.539	6.409	...	
2067	$e^5D-y^1D^o$	1-2	1.20	16131.230	16126.824	0	6199.155 ^A	0	5.642	6.411	...	
		2-2	1.89	15687.677	15683.391	2	6374.430 ^A	-1	5.620	6.411	...	
		3-2	2.11	15044.433	15040.322	2	6646.977 ^A	-1	5.587	6.411	...	
2068	$e^5D-x^1D^o$	1-2	1.60	15992.525	15988.157	5	6252.921 ^A	-2	5.642	6.417	...	
2069	$e^5D-u^3D^o$	2-3	1.72	15071.079	15066.961	0	6635.225 ^A	0	5.620	6.443	...	
		3-3	1.23	14476.449	14472.493	0	6907.771 ^A	0	5.587	6.443	...	
		3-2	0.85	13820.574	13816.797	0	7235.589 ^A	0	5.587	6.484	...	
		4-3	1.18	13713.480	13709.731	-2	7292.095 ^A	1	5.539	6.443	...	
2070	$e^5D-^2P4p^1P^o$	0-1	0.90	15184.345	15180.197	7	6585.730 ^A	-3	5.653	6.469	...	
		1-1	1.28	14988.759	14984.664	2	6671.666 ^A	-1	5.642	6.469	...	
2071	$e^5D-t^3D^o$	2-3	1.28	14536.248	14532.276	2	6879.354 ^D	-1	5.620	6.473	...	II
		1-2	1.00	13939.677	13935.867	-2	7173.767 ^A	1	5.642	6.532	...	
		0-1	0.90	13768.953	13765.189	2	7262.716 ^A	-1	5.653	6.553	...	
2072	$e^5D-^4F5p^3G^o$	3-3	1.66	10757.229	10754.283	0	9296.074 ^A	0	5.587	6.739	...	
		4-4	1.26	10705.976	10703.044	-5	9340.577 ^A	4	5.539	6.697	...	
		4-3	1.18	10330.144	10327.313	-11	9680.407 ^B	10	5.539	6.739	...	
2073	$e^5D-Gsp3^3F^o$	3-4	1.71	12670.580	12667.115	2	7892.298 ^A	-1	5.587	6.565	...	
		2-3	1.36	12463.174	12459.765	2	8023.638 ^A	-1	5.620	6.615	...	
		1-2	1.46	12135.558	12132.238	6	8240.247 ^A	-4	5.642	6.664	...	
		4-4	1.00	12082.215	12078.909	-9	8276.628 ^A	6	5.539	6.565	...	
2074	$e^5D-^4F5p^5G^o$	1-2	1.62	11430.490	11427.361	-8	8748.531 ^B	6	5.642	6.727	...	
		2-3	1.28	11362.646	11359.535	14	8800.767 ^B	-11	5.620	6.712	...	
		4-5	1.30	11223.969	11220.896	-3	8909.504 ^A	2	5.539	6.644	...	
2075	$e^5D-^4F5p^5F^o$	2-3	2.45	12008.834	12005.548	0	8327.203 ^A	0	5.620	6.653	...	
		3-4	2.68	12008.685	12005.400	1	8327.306 ^A	-1	5.587	6.619	...	
		4-5	2.80	11893.744	11890.490	0	8407.781 ^A	0	5.539	6.581	...	
		1-2	2.33	11718.692	11715.485	-1	8533.375 ^A	1	5.642	6.700	...	
		3-3	1.34	11628.259	11625.077	14	8599.739 ^B	-10	5.587	6.653	...	
		0-1	2.30	11588.389	11585.217	8	8629.327 ^A	-6	5.653	6.723	...	
		4-4	2.25	11478.909	11475.767	0	8711.629 ^A	0	5.539	6.619	...	
		1-1	1.23	11474.119	11470.978	0	8715.266 ^B	0	5.642	6.723	...	
		3-2	1.63	11134.375	11131.327	2	8981.195 ^A	-2	5.587	6.700	...	
		4-3	1.43	11130.811	11127.764	0	8984.071 ^A	0	5.539	6.653	...	
2076	$e^5D-^4F5p^3F^o$	3-4	1.96	12095.549	12092.239	0	8267.504 ^A	0	5.587	6.612	...	
		4-4	1.40	11558.251	11555.087	-1	8651.828 ^A	1	5.539	6.612	...	
		2-3	1.61	11166.751	11163.694	1	8955.156 ^A	-1	5.620	6.731	...	
		3-3	1.90	10836.933	10833.965	0	9227.703 ^A	0	5.587	6.731	...	
		4-3	1.56	10403.629	10400.779	-3	9612.030 ^A	3	5.539	6.731	...	
		3-2	1.08	10368.010	10365.169	4	9645.052 ^B	-4	5.587	6.782	...	
2077	$e^5D-^4F5p^5D^o$	2-3	1.83	11833.090	11829.852	-7	8450.878 ^A	5	5.620	6.668	...	
		3-4	3.14	11697.152	11693.951	-10	8549.089 ^D	7	5.587	6.647	...	II
		4-4	2.45	11193.940	11190.875	0	8933.405 ^A	0	5.539	6.647	...	
		0-1	1.41	11101.175	11098.136	-2	9008.055 ^A	2	5.653	6.770	...	
		1-2	1.51	11084.629	11081.595	-1	9021.501 ^D	1	5.642	6.761	...	II
		1-1	1.18	10996.273	10993.262	-4	9093.990 ^B	3	5.642	6.770	...	
		4-3	1.63	10979.669	10976.663	1	9107.742 ^A	-1	5.539	6.668	...	
		2-2	1.59	10873.369	10870.392	-5	9196.781 ^A	4	5.620	6.761	...	
		2-1	1.71	10788.340	10785.386	-2	9269.266 ^A	2	5.620	6.770	...	
		3-2	1.54	10560.418	10557.525	1	9469.322 ^A	-1	5.587	6.761	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2078	$e^5D-Dsp3^5F^o$	2-3	1.73	11905.163	11901.905	0	8399.717 ^B	0	5.620	6.662	...	
		3-3	1.34	11531.019	11527.863	3	8672.260 ^A	-2	5.587	6.662	...	
		3-4	1.38	11337.247	11334.144	-10	8820.483 ^A	8	5.587	6.680	...	
		4-3	1.48	11041.690	11038.667	1	9056.584 ^A	-1	5.539	6.662	...	
2079	$e^5D-^4F5p^3D^o$	2-3	1.46	11759.212	11755.994	4	8503.971 ^A	-3	5.620	6.675	...	
		3-3	2.01	11394.046	11390.928	9	8776.513 ^B	-7	5.587	6.675	...	
		2-2	1.46	11100.123	11097.084	-9	9008.909 ^A	7	5.620	6.737	...	
		4-3	1.69	10916.026	10913.036	1	9160.843 ^A	-1	5.539	6.675	...	
		3-2	1.58	10774.182	10771.231	2	9281.447 ^A	-2	5.587	6.737	...	
		2-1	1.26	10555.902	10553.010	0	9473.373 ^B	0	5.620	6.795	...	
2080	$e^5D-Dsp3^5D^o$	1-2	1.80	11899.284	11896.028	0	8403.867 ^A	0	5.642	6.684	...	
		2-3	1.94	11685.453	11682.255	3	8557.648 ^A	-2	5.620	6.681	...	
		2-2	1.30	11656.174	11652.984	-1	8579.144 ^A	1	5.620	6.684	...	
		3-3	1.41	11324.779	11321.679	1	8830.194 ^A	-1	5.587	6.681	...	
		3-2	1.99	11297.279	11294.186	1	8851.689 ^A	-1	5.587	6.684	...	
		4-3	2.32	10852.439	10849.467	0	9214.518 ^A	0	5.539	6.681	...	
		4-4	1.45	10390.330	10387.483	0	9624.333 ^D	0	5.539	6.732	...	II
2081	$e^5D-t^3G^o$	4-4	1.08	10459.806	10456.941	1	9560.406 ^B	-1	5.539	6.724	...	
2082	$e^5D-t^5P^o$	2-3	1.38	11532.909	11529.752	3	8670.839 ^A	-2	5.620	6.696	...	
		1-1	2.19	11413.044	11409.920	5	8761.904 ^A	-4	5.642	6.729	...	
		2-2	2.37	11391.658	11388.540	1	8778.353 ^A	-1	5.620	6.709	...	
		2-1	1.80	11189.209	11186.146	5	8937.182 ^A	-4	5.620	6.729	...	
		3-2	2.05	11048.627	11045.602	1	9050.898 ^A	-1	5.587	6.709	...	
		4-3	1.60	10720.746	10717.809	1	9327.709 ^A	-1	5.539	6.696	...	
2083	$e^5D-s^6D6p^7F^o$	1-1	1.85	8572.4541	8570.0997	3.7	11665.271 ^B	-5	5.642	7.088	...	
2084	$e^5D-s^6D6p^7P^o$	3-2	1.56	8244.7830	8242.5172	0.0	12128.882 ^B	0	5.587	7.090	...	
2085	$e^5D-s^6D6p^5F^o$	3-4	1.32	8331.2366	8328.9475	-3.5	12003.020 ^B	5	5.587	7.075	...	
		2-3	0.95	8326.4363	8324.1484	8.3	12009.940 ^C	-12	5.620	7.109	...	
		4-5	2.29	8312.3543	8310.0703	-6.9	12030.286 ^A	10	5.539	7.031	...	
		1-2	1.23	8289.5576	8287.2797	-7.6	12063.370 ^C	11	5.642	7.138	...	
		2-2	1.23	8170.8425	8168.5967	-2.0	12238.640 ^C	3	5.620	7.138	...	
2086	$e^5D-s^6D6p^5D^o$	4-4	1.66	8295.0888	8292.8094	1.4	12055.326 ^B	-2	5.539	7.034	...	
		2-2	1.63	8276.8562	8274.5817	-0.7	12081.882 ^C	1	5.620	7.118	...	
		3-3	1.28	8259.5508	8257.2810	3.4	12107.196 ^B	-5	5.587	7.088	...	
2087	$e^5D-s^6D6p^5P^o$	0-1	1.26	8232.9022	8230.6396	-0.7	12146.385 ^B	1	5.653	7.159	...	
		4-3	1.52	8200.5258	8198.2720	-2.0	12194.340 ^B	3	5.539	7.051	...	
		1-1	1.18	8175.0674	8172.8205	2.0	12232.315 ^B	-3	5.642	7.159	...	
2088	$x^3D^o-e^7F$	1-1	0.70	17679.633	17674.806	16	5656.226 ^A	-5	5.648	6.349	...	
		2-3	0.78	17044.457	17039.802	12	5867.010 ^A	-4	5.614	6.341	...	
2089	$x^3D^o-f^7D$	1-2	1.52	18359.181	18354.169	37	5446.866 ^D	-11	5.648	6.323	...	II
		1-1	2.26	18193.925	18188.958	-3	5496.340 ^A	1	5.648	6.329	...	
2090	$x^3D^o-f^5D$	3-3	1.15	18819.228	18814.091	7	5313.714 ^D	-2	5.606	6.265	...	I
		3-2	0.90	18255.040	18250.057	-3	5477.939 ^A	1	5.606	6.286	...	
		2-1	0.78	17862.667	17857.790	0	5598.268 ^A	0	5.614	6.308	...	
2091	$x^3D^o-e^7P$	3-3	2.70	18550.869	18545.805	-7	5390.583 ^A	2	5.606	6.275	...	
2092	$x^3D^o-e^5G$	3-4	1.23	17364.430	17359.688	-3	5758.899 ^A	1	5.606	6.320	...	
2093	$x^3D^o-e^7G$	1-1	0.70	16625.023	16620.483	17	6015.029 ^B	-6	5.648	6.393	...	
		3-4	0.70	16355.294	16350.827	5	6114.228 ^B	-2	5.606	6.365	...	
		3-3	1.36	16026.087	16021.710	26	6239.826 ^A	-10	5.606	6.380	...	
2094	$x^3D^o-f^5F$	3-4	1.41	16023.104	16018.727	3	6240.988 ^A	-1	5.606	6.380	...	
		2-3	1.38	15817.108	15812.788	3	6322.268 ^A	-1	5.614	6.398	...	
		3-3	0.60	15665.564	15661.284	-17	6383.428 ^A	7	5.606	6.398	...	
		2-2	0.85	15568.612	15564.359	2	6423.180 ^A	-1	5.614	6.410	...	

TABLE 2—*Continued*

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2095	$x^3D^o - e^3D$	2-3	0.60	16632.320	16627.778	-8	6012.390 ^A	3	5.614	6.359	...	
		3-3	1.66	16464.865	16460.368	0	6073.539 ^A	0	5.606	6.359	...	
		1-2	0.70	16159.913	16155.499	3	6188.152 ^A	-1	5.648	6.415	...	
		2-2	1.38	15484.464	15480.234	0	6458.086 ^A	0	5.614	6.415	...	
		1-1	2.22	15412.768	15408.558	-5	6488.127 ^B	2	5.648	6.452	...	
		2-1	0.60	14797.154	14793.111	4	6758.056 ^B	-2	5.614	6.452	...	
2096	$x^3D^o - g^5D$	3-4	0.60	16313.724	16309.269	8	6129.808 ^B	-3	5.606	6.366	...	
		1-1	0.48	15009.211	15005.111	5	6662.575 ^A	-2	5.648	6.474	...	
		2-2	1.00	14775.444	14771.407	7	6767.986 ^D	-3	5.614	6.453	...	II
2097	$x^3D^o - e^5P$	1-1	0.30	15460.978	15456.754	14	6467.896 ^D	-6	5.648	6.449	...	I
		2-3	0.60	15254.599	15250.431	9	6555.400 ^A	-4	5.614	6.427	...	
		3-3	1.08	15113.612	15109.482	9	6616.552 ^D	-4	5.606	6.427	...	II
		3-2	0.90	14605.395	14601.404	4	6846.785 ^B	-2	5.606	6.455	...	
2098	$x^3D^o - f^3D$	3-3	0.95	11727.697	11724.488	-7	8526.823 ^A	5	5.606	6.664	...	
2099	$x^3D^o - f^3F$	2-3	1.08	10159.398	10156.614	2	9843.102 ^B	-2	5.614	6.834	...	
2100	$x^3D^o - s^6D5d^5G$	3-2	1.85	8324.2031	8321.9158	-0.7	12013.162 ^B	1	5.606	7.096	...	
2101	$x^3D^o - s^4D4d^5F$	2-3	1.15	7781.9528	7779.8120	0.6	12850.245 ^B	-1	5.614	7.207	...	
2102	$x^3D^o - s^4D4d^3D$	2-3	1.23	7462.4148	7460.3602	0.0	13400.488 ^C	0	5.614	7.275	...	
2103	$y^3G^o - f^7D$	5-4	2.01	18138.444	18133.492	-3	5513.152 ^A	1	5.616	6.299	...	
2104	$y^3G^o - e^5G$	5-6	0.85	19127.418	19122.197	0	5228.097 ^A	0	5.616	6.264	...	
2105	$y^3G^o - s^6D5d^5G$	3-3	1.49	8701.2157	8698.8265	-4.5	11492.647 ^D	6	5.649	7.074	...	
2106	$y^3G^o - s^6D5d^7D$	3-4	2.17	9183.5410	9181.0213	-2.5	10889.046 ^A	3	5.649	6.999	...	
		4-5	2.19	9087.9142	9085.4204	-6.6	11003.625 ^A	8	5.632	6.996	...	
2107	$y^3G^o - s^6D7s^5D$	4-4	1.34	7756.1606	7754.0267	1.8	12892.977 ^B	-3	5.632	7.231	...	
2108	$y^3G^o - 61724^e$	3-4	1.53	6187.4086	6185.6970	-0.4	16161.855 ^B	1	5.649	7.653	...	
2109	$x^5G^o - f^5D$	4-4	1.34	21786.886	21780.941	-14	4589.917 ^D	3	5.682	6.251	...	I
		5-4	1.51	21290.167	21284.357	14	4697.004 ^D	-3	5.669	6.251	...	I
2110	$x^5G^o - e^5G$	5-6	0.95	20847.196	20841.507	22	4796.808 ^B	-5	5.669	6.264	...	
		5-5	2.00	20089.397	20083.915	-44	4977.750 ^A	11	5.669	6.286	...	
		3-4	0.30	19739.139	19733.751	16	5066.077 ^D	-4	5.692	6.320	...	II
2111	$x^5G^o - f^5F$	3-2	0.30	17266.642	17261.927	9	5791.514 ^B	-3	5.692	6.410	...	
2112	$x^5G^o - g^5F$	5-5	1.04	13632.915	13629.189	-4	7335.188 ^A	2	5.669	6.579	...	
		6-5	1.26	13417.496	13413.828	0	7452.955 ^A	0	5.655	6.579	...	
		4-4	0.90	13226.720	13223.104	-7	7560.453 ^A	4	5.682	6.620	...	
2113	$x^5G^o - h^5D$	4-4	1.76	13657.638	13653.905	19	7321.910 ^A	-10	5.682	6.590	...	
		5-4	1.18	13460.736	13457.056	-2	7429.014 ^A	1	5.669	6.590	...	
		4-3	1.20	12965.771	12962.225	-10	7712.615 ^A	6	5.682	6.639	...	
		3-2	1.26	12417.484	12414.087	5	8053.161 ^A	-3	5.692	6.691	...	
2114	$x^5G^o - f^5P$	4-3	0.60	13647.459	13643.728	-4	7327.371 ^B	2	5.682	6.591	...	
		3-2	1.15	13062.939	13059.367	12	7655.245 ^B	-7	5.692	6.641	...	
2115	$x^5G^o - f^5G$	5-6	1.18	13435.419	13431.746	2	7443.013 ^A	-1	5.669	6.592	...	
		4-5	1.34	13425.585	13421.914	-2	7448.465 ^A	1	5.682	6.606	...	
		5-5	0.60	13235.293	13231.674	4	7555.556 ^A	-2	5.669	6.606	...	
		6-6	1.46	13226.143	13222.527	0	7560.783 ^A	0	5.655	6.592	...	
2116	$x^5G^o - e^5H$	5-6	1.41	13111.564	13107.979	3	7626.855 ^A	-2	5.669	6.615	...	
		6-7	2.05	13043.219	13039.652	2	7666.819 ^A	-1	5.655	6.605	...	
		4-5	1.74	12436.213	12432.811	-2	8041.033 ^A	1	5.682	6.679	...	
		3-4	1.75	12013.875	12010.588	7	8323.709 ^A	-5	5.692	6.724	...	
		2-3	1.72	11728.774	11725.564	0	8526.040 ^A	0	5.699	6.756	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2117	$x^5G^o-e^3G$	5-5	1.20	12479.240	12475.827	-3	8013.308 ^A	2	5.669	6.663	...	I
		4-4	1.30	12145.812	12142.490	6	8233.290 ^A	-4	5.682	6.703	...	
		3-3	1.15	11812.098	11808.866	-15	8465.896 ^D	11	5.692	6.742	...	
2118	$x^5G^o-f^3D$	4-3	1.26	12635.399	12631.943	3	7914.273 ^A	-2	5.682	6.664	...	
2119	$x^5G^o-g^7D$	3-3	2.02	11776.775	11773.552	-11	8491.289 ^A	8	5.692	6.745	...	
2120	$x^5G^o-e^3H$	5-6	1.76	12323.636	12320.265	2	8114.488 ^A	-1	5.669	6.675	...	II
		4-5	1.63	11857.487	11854.242	1	8433.490 ^A	-1	5.682	6.728	...	
		3-4	1.28	11571.505	11568.338	1	8641.918 ^A	-1	5.692	6.764	...	
		6-5	1.20	11549.539	11546.378	0	8658.354 ^D	0	5.655	6.728	...	
2121	$x^5G^o-f^3F$	5-4	1.74	11164.205	11161.149	-10	8957.198 ^D	8	5.669	6.780	...	I
		2-3	1.15	10917.059	10914.069	5	9159.976 ^B	-4	5.699	6.834	...	
2122	$x^5G^o-s^6D5d^7F$	6-6	1.76	9242.4739	9239.9383	0.9	10819.614 ^D	-1	5.655	6.996	...	II
		4-4	1.93	8715.2782	8712.8852	-5.3	11474.103 ^C	7	5.682	7.105	...	
2123	$x^5G^o-62192^e$	6-5	0.90	6029.7760	6028.1067	3.3	16584.364 ^A	-9	5.655	7.711	...	
2124	$z^3I^o-e^7F$	6-5	2.70	20805.311	20799.633	4	4806.465 ^A	-1	5.706	6.302	...	
		5-4	3.19	19776.689	19771.291	-20	5056.458 ^A	5	5.720	6.347	...	
2125	$z^3I^o-e^5G$	6-6	1.28	22242.136	22236.067	5	4495.971 ^B	-1	5.706	6.264	...	
2126	$z^3I^o-s^6D5d^5D$	5-4	3.13	9928.7838	9926.0623	3.9	10071.727 ^A	-4	5.720	6.969	...	
2127	$z^3I^o-g^5G$	7-6	0.95	8316.7511	8314.4659	1.4	12023.926 ^D	-2	5.700	7.191	...	
2128	$w^5P^o-e^7F$	3-3	0.60	19953.090	19947.644	-16	5011.755 ^D	4	5.720	6.341	...	I
2129	$w^5P^o-f^7D$	2-3	1.30	21986.333	21980.334	-5	4548.280 ^B	1	5.742	6.306	...	
		2-2	1.64	21344.179	21338.355	-46	4685.118 ^C	10	5.742	6.323	...	
		3-2	1.75	20569.575	20563.962	-4	4861.549 ^A	1	5.720	6.323	...	
2130	$w^5P^o-f^5D$	3-4	1.90	23331.554	23325.189	-5	4286.041 ^A	1	5.720	6.251	...	I
		2-2	1.18	22804.585	22798.363	-5	4385.083 ^B	1	5.742	6.286	...	
		3-3	1.69	22741.232	22735.028	5	4397.299 ^A	-1	5.720	6.265	...	
		3-2	1.59	21922.502	21916.520	-5	4561.523 ^A	1	5.720	6.286	...	
		2-1	1.26	21898.302	21892.327	5	4566.564 ^D	-1	5.742	6.308	...	
		1-0	1.51	21878.778	21872.809	-38	4570.639 ^D	8	5.754	6.321	...	
2131	$w^5P^o-e^7P$	3-4	1.85	23051.077	23044.788	-11	4338.192 ^A	2	5.720	6.258	...	
		3-3	1.67	22350.544	22344.445	0	4474.164 ^A	0	5.720	6.275	...	
2132	$w^5P^o-e^5G$	3-2	0.70	19109.344	19104.128	22	5233.042 ^B	-6	5.720	6.369	...	
2133	$w^5P^o-e^7G$	1-2	2.16	19495.666	19490.345	-27	5129.345 ^A	7	5.754	6.390	...	
		3-4	1.49	19238.864	19233.613	7	5197.812 ^A	-2	5.720	6.365	...	
2134	$w^5P^o-f^5F$	2-2	1.53	18547.755	18542.692	-41	5391.488 ^D	12	5.742	6.410	...	I
2135	$w^5P^o-e^5S$	2-2	1.60	20680.927	20675.284	0	4835.373 ^A	0	5.742	6.341	...	
		3-2	1.86	19952.859	19947.413	0	5011.813 ^A	0	5.720	6.341	...	
2136	$w^5P^o-e^3D$	2-3	1.18	20077.579	20072.100	12	4980.680 ^B	-3	5.742	6.359	...	II
		3-3	1.00	19390.667	19385.375	8	5157.120 ^D	-2	5.720	6.359	...	
		1-2	1.34	18763.363	18758.241	11	5329.535 ^B	-3	5.754	6.415	...	
		1-1	1.08	17763.544	17758.695	13	5629.507 ^B	-4	5.754	6.452	...	
		2-1	1.30	17463.118	17458.350	3	5726.354 ^A	-1	5.742	6.452	...	
2137	$w^5P^o-g^5D$	3-4	2.38	19181.358	19176.123	0	5213.395 ^A	0	5.720	6.366	...	
		2-3	2.23	18325.013	18320.010	-10	5457.022 ^A	3	5.742	6.419	...	
		3-3	1.56	17751.083	17746.236	0	5633.459 ^A	0	5.720	6.419	...	
		1-2	2.05	17732.257	17727.415	3	5639.440 ^A	-1	5.754	6.453	...	
		2-2	1.34	17432.885	17428.125	0	5736.285 ^A	0	5.742	6.453	...	
		1-1	1.99	17229.597	17224.893	-6	5803.966 ^A	2	5.754	6.474	...	
		1-0	1.52	17102.898	17098.228	3	5846.962 ^A	-1	5.754	6.479	...	
		2-1	1.32	16946.837	16942.209	3	5900.806 ^A	-1	5.742	6.474	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2138	$w^5P^o - e^5P$	2-3	1.95	18103.807	18098.864	0	5523.700 ^A	0	5.742	6.427	...	I
		1-1	1.67	17827.580	17822.713	3	5609.286 ^A	-1	5.754	6.449	...	
		1-2	1.92	17676.948	17672.122	6	5657.085 ^A	-2	5.754	6.455	...	
		3-3	2.41	17543.425	17538.635	0	5700.141 ^D	0	5.720	6.427	...	
		2-1	1.92	17525.012	17520.227	3	5706.130 ^A	-1	5.742	6.449	...	
		2-2	1.97	17379.422	17374.677	0	5753.931 ^A	0	5.742	6.455	...	
		3-2	1.76	16862.348	16857.743	-3	5930.372 ^A	1	5.720	6.455	...	
2139	$w^5P^o - h^5D$	3-4	0.70	14248.980	14245.086	2	7018.046 ^A	-1	5.720	6.590	...	
		2-2	1.26	13066.550	13062.978	-9	7653.129 ^B	5	5.742	6.691	...	
2140	$w^5P^o - f^5P$	3-3	0.85	14237.915	14234.024	-10	7023.500 ^A	5	5.720	6.591	...	
2141	$w^5P^o - s^6D5d^7P$	2-3	1.56	9853.7001	9850.9990	4.9	10148.472 ^B	-5	5.742	7.000	...	
2142	$w^5P^o - s^4D4d^5F$	3-4	1.28	8346.0005	8343.7073	-7.0	11981.787 ^C	10	5.720	7.206	...	
		3-3	1.04	8336.8223	8334.5316	2.8	11994.978 ^B	-4	5.720	7.207	...	
		2-2	0.95	8197.5007	8195.2477	6.0	12198.840 ^C	-9	5.742	7.254	...	
		3-2	0.78	8080.6200	8078.3986	0.0	12375.288 ^B	0	5.720	7.254	...	
2143	$w^5P^o - s^4D4d^5P$	3-2	1.23	8280.8692	8278.5936	-0.7	12076.027 ^B	1	5.720	7.217	...	II
		2-3	1.20	8218.0634	8215.8048	0.0	12168.317 ^A	0	5.742	7.251	...	
		3-3	1.63	8100.6122	8098.3853	6.6	12344.746 ^D	-10	5.720	7.251	...	
2144	$w^5P^o - 58661^e$	3-4	2.11	7984.1072	7981.9118	-1.3	12524.882 ^A	2	5.720	7.273	...	
2145	$w^5P^o - s^4D4d^3D$	1-2	1.26	7955.8046	7953.6168	0.6	12569.439 ^B	-1	5.754	7.312	...	
		2-2	1.08	7894.9697	7892.7984	-5.6	12666.293 ^D	9	5.742	7.312	...	
2146	$w^5P^o - 59077^e$	1-1	1.15	7894.7173	7892.5461	2.5	12666.698 ^B	-4	5.754	7.324	...	
		2-1	1.20	7834.8164	7832.6613	3.1	12763.541 ^B	-5	5.742	7.324	...	
2147	$z^3S^o - g^5D$	1-2	1.74	18351.981	18346.971	3	5449.003 ^B	-1	5.778	6.453	...	I
		1-1	0.85	17814.118	17809.254	3	5613.525 ^D	-1	5.778	6.474	...	
2148	$z^3S^o - 59077^e$	1-1	1.54	8015.2199	8013.0161	0.6	12476.264 ^D	-1	5.778	7.324	...	
2149	$y^3P^o - f^5F$	1-2	1.46	20819.536	20813.854	0	4803.181 ^A	0	5.815	6.410	...	
		1-1	1.26	20607.233	20601.609	0	4852.665 ^B	0	5.815	6.417	...	
		2-3	1.23	20504.278	20498.682	-8	4877.031 ^A	2	5.793	6.398	...	
		2-2	1.18	20088.643	20083.160	12	4977.937 ^B	-3	5.793	6.410	...	
2150	$y^3P^o - e^3D$	2-3	1.41	21895.507	21889.532	-5	4567.147 ^C	1	5.793	6.359	...	
		2-2	0.48	19948.791	19943.347	44	5012.835 ^B	-11	5.793	6.415	...	
2151	$y^3P^o - e^5P$	2-3	1.00	19568.828	19563.487	-19	5110.168 ^D	5	5.793	6.427	...	I
		1-2	1.43	19358.700	19353.416	4	5165.636 ^A	-1	5.815	6.455	...	
2152	$y^3P^o - h^5D$	1-1	0.78	13829.883	13826.103	-2	7230.719 ^A	1	5.815	6.711	...	
2153	$y^3P^o - f^5P$	2-1	0.30	13892.506	13888.709	0	7198.125 ^B	0	5.793	6.686	...	
2154	$y^3P^o - f^5G$	2-3	0.85	13451.598	13447.920	5	7434.061 ^B	-3	5.793	6.715	...	
		1-2	0.78	13380.008	13376.350	13	7473.837 ^B	-7	5.815	6.741	...	
2155	$y^3P^o - g^5G$	2-2	1.20	8265.9910	8263.7195	4.8	12097.763 ^B	-7	5.793	7.293	...	
2156	$y^3P^o - s^4D4d^5P$	1-2	2.52	8840.7262	8838.2993	1.6	11311.288 ^A	-2	5.815	7.217	...	
2157	$y^3P^o - 59077^e$	2-1	1.08	8097.1581	8094.9322	-2.6	12350.012 ^B	4	5.793	7.324	...	
		0-1	2.02	8061.5672	8059.3508	4.5	12404.536 ^A	-7	5.786	7.324	...	
2158	$u^5D^o - f^5D$	4-4	1.99	27010.287	27002.920	7	3702.293 ^A	-1	5.792	6.251	...	
2159	$u^5D^o - e^7P$	4-4	1.94	26635.095	26627.830	0	3754.445 ^A	0	5.792	6.258	...	
		4-3	1.52	25704.165	25697.154	-7	3890.420 ^A	1	5.792	6.275	...	
2160	$u^5D^o - e^5G$	4-5	1.81	25106.539	25099.691	13	3983.026 ^A	-2	5.792	6.286	...	
		3-4	1.64	23615.076	23608.633	17	4234.583 ^A	-3	5.795	6.320	...	
2161	$u^5D^o - e^7G$	4-5	1.56	22184.218	22178.165	5	4507.709 ^A	-1	5.792	6.351	...	I
		3-4	1.34	21786.886	21780.941	5	4589.917 ^D	-1	5.795	6.365	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2162	$u^5D^o-f^5F$	4-5	1.97	22818.817	22812.592	0	4382.348 ^A	0	5.792	6.336	...	
		1-2	1.66	22085.893	22079.867	10	4527.777 ^A	-2	5.849	6.410	...	
		1-1	1.23	21847.121	21841.160	5	4577.262 ^A	-1	5.849	6.417	...	
		0-1	1.61	21819.935	21813.981	0	4582.965 ^A	0	5.848	6.417	...	
		2-3	1.67	21206.272	21200.485	0	4715.586 ^A	0	5.813	6.398	...	
		3-4	1.88	21201.371	21195.586	0	4716.676 ^A	0	5.795	6.380	...	
		2-2	1.38	20761.981	20756.315	4	4816.496 ^A	-1	5.813	6.410	...	
		3-3	1.38	20579.904	20574.288	0	4859.109 ^B	0	5.795	6.398	...	
2163	$u^5D^o-e^5P$	1-2	1.56	20448.906	20443.326	-8	4890.237 ^D	2	5.849	6.455	...	II
		2-3	1.52	20207.233	20201.718	-8	4948.723 ^A	2	5.813	6.427	...	
		3-3	1.28	19637.707	19632.348	0	5092.244 ^A	0	5.795	6.427	...	
		2-2	0.95	19308.925	19303.655	-4	5178.952 ^A	1	5.813	6.455	...	
2164	$u^5D^o-g^5F$	4-5	1.46	15771.699	15767.390	7	6340.471 ^A	-3	5.792	6.579	...	
		3-4	1.34	15040.584	15036.474	2	6648.678 ^A	-1	5.795	6.620	...	
		4-4	1.26	14986.147	14982.053	0	6672.829 ^A	0	5.792	6.620	...	
		1-2	2.08	14123.761	14119.901	-2	7080.267 ^B	1	5.849	6.727	...	
		3-3	1.11	14112.368	14108.511	-4	7085.983 ^A	2	5.795	6.674	...	
		0-1	1.20	13860.680	13856.891	2	7214.653 ^A	-1	5.848	6.743	...	
		2-2	1.00	13570.390	13566.680	-2	7368.985 ^A	1	5.813	6.727	...	
2165	$u^5D^o-h^5D$	4-4	1.74	15541.698	15537.453	-2	6434.303 ^A	1	5.792	6.590	...	
		3-3	0.90	14704.074	14700.056	6	6800.836 ^B	-3	5.795	6.639	...	
		4-3	1.59	14652.036	14648.032	0	6824.990 ^A	0	5.792	6.639	...	
		2-2	2.10	14128.015	14124.154	18	7078.135 ^B	-9	5.813	6.691	...	
		3-2	1.08	13847.218	13843.433	0	7221.667 ^A	0	5.795	6.691	...	
		2-1	0.48	13804.472	13800.699	6	7244.029 ^D	-3	5.813	6.711	...	I
2166	$u^5D^o-f^5P$	4-3	1.91	15528.553	15524.311	-2	6439.750 ^A	1	5.792	6.591	...	
		1-1	1.64	14819.291	14815.242	7	6747.961 ^D	-3	5.849	6.686	...	I
		3-2	1.49	14654.683	14650.679	-2	6823.757 ^A	1	5.795	6.641	...	
		2-1	0.95	14211.251	14207.367	8	7036.678 ^A	-4	5.813	6.686	...	
2167	$u^5D^o-f^5G$	4-5	1.86	15241.939	15237.775	2	6560.845 ^A	-1	5.792	6.606	...	
		3-4	1.11	14236.938	14233.047	6	7023.982 ^A	-3	5.795	6.666	...	
		1-2	0.95	13891.894	13888.097	-2	7198.442 ^A	1	5.849	6.741	...	
		2-3	1.04	13750.204	13746.446	2	7272.619 ^A	-1	5.813	6.715	...	
		3-3	1.04	13484.080	13480.393	-15	7416.153 ^B	8	5.795	6.715	...	
2168	$u^5D^o-e^3G$	3-4	0.85	13658.369	13654.636	9	7321.518 ^B	-5	5.795	6.703	...	
		4-4	1.23	13613.465	13609.744	13	7345.668 ^B	-7	5.792	6.703	...	
2169	$u^5D^o-f^3D$	3-3	1.11	14280.583	14276.680	-20	7002.515 ^C	10	5.795	6.664	...	
		4-3	0.85	14231.508	14227.619	-10	7026.662 ^B	5	5.792	6.664	...	
		1-1	0.60	13751.169	13747.410	4	7272.109 ^B	-2	5.849	6.751	...	
		0-1	0.95	13740.387	13736.631	-2	7277.815 ^A	1	5.848	6.751	...	
2170	$u^5D^o-g^7D$	4-4	0.30	13506.395	13502.702	0	7403.900 ^B	0	5.792	6.710	...	
2171	$u^5D^o-s^6D6s^5D$	4-4	1.18	12888.162	12884.638	2	7759.058 ^A	-1	5.792	6.754	...	
		3-3	1.20	12315.522	12312.153	3	8119.834 ^A	-2	5.795	6.802	...	
		0-1	1.36	12293.933	12290.570	3	8134.093 ^D	-2	5.848	6.857	...	I
		3-2	1.28	11920.137	11916.875	11	8389.165 ^B	-8	5.795	6.836	...	
2172	$u^5D^o-f^3F$	4-4	1.04	12558.899	12555.464	-3	7962.481 ^A	2	5.792	6.780	...	
2173	$u^5D^o-e^3P$	1-1	1.53	12196.839	12193.503	13	8198.845 ^B	-9	5.849	6.866	...	
		2-1	1.79	11781.926	11778.702	-7	8487.576 ^B	5	5.813	6.866	...	
2174	$u^5D^o-s^6D5d^5G$	2-3	2.67	9835.6502	9832.9539	1.0	10167.096 ^A	-1	5.813	7.074	...	
2175	$u^5D^o-s^6D5d^7G$	1-1	2.29	9858.8955	9856.1930	-11.7	10143.124 ^D	12	5.849	7.107	...	II
2176	$u^5D^o-^4F6s^3F$	2-2	1.32	9172.2965	9169.7799	-4.2	10902.395 ^B	5	5.813	7.165	...	
2177	$u^5D^o-58661^e$	4-4	2.48	8374.4147	8372.1139	1.4	11941.133 ^A	-2	5.792	7.273	...	
2178	$u^5D^o-s^4D4d^3D$	2-2	1.18	8270.4073	8268.1345	1.4	12091.303 ^B	-2	5.813	7.312	...	
		3-2	1.32	8173.3883	8171.1418	0.0	12234.828 ^A	0	5.795	7.312	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	$\sigma-R^4$ (mÅ)	σ^5 (cm ⁻¹)	$\sigma-R^6$ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2179	$u^5D^o-f^5D$	0-1 2-1	1.71 0.78	8399.4418 8204.4099	8397.1342 8202.1550	-1.4 -0.7	11905.553 ^C 12188.567 ^B	2 1	5.848 5.813	7.324 7.324	... ...
2180	$x^3F^o-f^5D$	4-4 3-2	2.10 1.79	28296.595 27732.250	28288.878 27724.687	0 -15	3533.994 ^A 3605.910 ^B	0 2	5.813 5.839	6.251 6.286	... ...
2181	$x^3F^o-e^7P$	4-4	2.03	27885.088	27877.483	-8	3586.146 ^D	1	5.813	6.258	...	I
2182	$x^3F^o-f^5F$	4-5 3-4 2-3	2.24 1.58 1.36	23730.146 22888.752 22690.709	23723.672 22882.508 22684.518	0 -5 10	4214.049 ^A 4368.958 ^A 4407.090 ^B	0 1 -2	5.813 5.839 5.851	6.336 6.380 6.398	... ... ...
2183	$x^3F^o-g^5D$	2-1	1.70	19930.867	19925.428	-32	5017.343 ^D	8	5.851	6.474	...	Ne
2184	$x^3F^o-g^5F$	4-5 3-4 2-3	1.23 1.18 0.95	16201.741 15870.595 15073.930	16197.316 15866.260 15069.811	-3 -5 -14	6172.176 ^A 6300.961 ^A 6633.970 ^B	1 2 6	5.813 5.839 5.851	6.579 6.620 6.674	... ... ...
2185	$x^3F^o-h^5D$	4-4 3-3 2-2	1.82 1.43 1.23	15959.142 15496.377 14771.808	15954.782 15492.144 14767.771	0 -2 -2	6266.001 ^A 6453.121 ^A 6769.652 ^A	0 1 1	5.813 5.839 5.851	6.590 6.639 6.691	... ... ...
2186	$x^3F^o-f^5P$	4-3 3-2 2-1	1.98 1.51 1.04	15945.278 15441.540 14862.836	15940.923 15437.321 14858.775	0 0 -4	6271.449 ^A 6476.038 ^A 6728.191 ^A	0 0 2	5.813 5.839 5.851	6.591 6.641 6.686	... ... ...
2187	$x^3F^o-f^5G$	4-5 3-4 4-4	1.69 1.30 1.23	15643.221 14978.437 14535.228	15638.948 14974.344 14531.256	2 4 -2	6392.545 ^A 6676.264 ^A 6879.837 ^A	-1 -2 1	5.813 5.839 5.813	6.606 6.666 6.666	... ... ...
2188	$x^3F^o-e^5H$	4-5	0.78	14316.160	14312.248	2	6985.113 ^B	-1	5.813	6.679	...	
2189	$x^3F^o-e^3G$	4-5 3-4 2-3 3-3	1.45 1.32 1.30 1.11	14597.911 14339.376 13922.975 13723.703	14593.922 14335.457 13919.169 13719.951	0 0 -2 13	6850.295 ^D 6973.804 ^A 7182.373 ^A 7286.663 ^B	0 0 1 -7	5.813 5.839 5.851 5.839	6.663 6.703 6.742 6.742	... ... ... ...	I
2190	$x^3F^o-f^3D$	3-3 4-3 3-2	0.78 1.23 1.08	15026.772 14580.747 14338.856	15022.666 14576.763 14334.937	-7 -4 6	6654.789 ^B 6858.359 ^A 6974.057 ^A	3 2 -3	5.839 5.813 5.839	6.664 6.664 6.703	... ... ...
2191	$x^3F^o-s^6D6s^5D$	4-4	1.41	13173.913	13170.311	-2	7590.759 ^A	1	5.813	6.754	...	
2192	$x^3F^o-f^3F$	3-4 4-4 2-3 3-3 4-3	1.40 1.08 1.46 1.60 1.83	13174.175 12830.094 12613.653 12449.855 12142.112	13170.573 12826.585 12610.203 12446.449 12138.790	0 5 14 5 -6	7590.608 ^A 7794.175 ^A 7927.917 ^B 8032.222 ^A 8235.799 ^A	0 -3 -9 -3 4	5.839 5.813 5.851 5.839 5.813	6.780 6.780 6.834 6.834 6.834	... ... ... ... ...
2193	$z^3H^o-g^5F$	4-4	0.30	15905.336	15900.992	-25	6287.198 ^D	10	5.840	6.620	...	I
2194	$z^3H^o-f^5P$	4-3	2.08	16517.731	16513.220	22	6054.100 ^D	-8	5.840	6.591	...	II
2195	$z^3H^o-f^5G$	4-5 5-5 5-4	1.26 0.78 1.81	16193.797 15940.558 14791.590	16189.374 15936.204 14787.549	0 25 20	6175.204 ^A 6273.306 ^A 6760.598 ^A	0 -10 -9	5.840 5.828 5.828	6.606 6.606 6.666	... ... ...
2196	$z^3H^o-e^5H$	6-7 5-6 4-5	0.60 0.30 0.60	15891.023 15761.390 14775.913	15886.682 15757.084 14771.876	3 -2 0	6292.861 ^B 6344.618 ^A 6767.771 ^A	-1 1 0	5.825 5.828 5.840	6.605 6.615 6.679	... ... ...
2197	$z^3H^o-f^3F$	4-4	0.90	13198.119	13194.510	-2	7576.837 ^B	1	5.840	6.780	...	
2198	$z^3H^o-61724^e$	4-4	2.40	6840.7197	6838.8325	-0.9	14618.345 ^B	2	5.840	7.653	...	
2199	$e^5F-u^5F^o$	2-3 1-2 3-4 4-5 1-1	1.96 1.89 1.83 2.17 1.97	27914.208 27730.904 27579.207 27482.319 26849.306	27906.595 27723.341 27571.685 27474.824 26841.983	-16 23 -8 8 7	3582.405 ^A 3606.085 ^B 3625.920 ^A 3638.703 ^A 3724.491 ^B	2 -3 1 -1 -1	5.956 5.978 5.921 5.874 5.978	6.400 6.426 6.370 6.325 6.440	... ... ... ... ...

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{gir}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		2-2	2.20	26380.073	26372.878	-7	3790.740 ^A	1	5.956	6.426	...	
		3-3	2.36	25883.005	25875.945	-7	3863.539 ^A	1	5.921	6.400	...	
		2-1	2.45	25581.061	25574.083	13	3909.142 ^A	-2	5.956	6.440	...	
		4-4	2.57	24978.125	24971.311	-6	4003.503 ^A	1	5.874	6.370	...	
		5-5	3.02	24930.487	24923.686	0	4011.153 ^A	0	5.828	6.325	...	
		3-2	2.41	24558.710	24552.011	6	4071.875 ^A	-1	5.921	6.426	...	
		4-3	1.97	23578.666	23572.233	-6	4241.122 ^A	1	5.874	6.400	...	
		5-4	2.63	22852.170	22845.935	-5	4375.952 ^A	1	5.828	6.370	...	
2200	$e^5F-x^3H^o$	5-4	1.65	22708.605	22702.409	0	4403.617 ^A	0	5.828	6.374	...	
2201	$e^5F-t^5D^o$	2-2	2.31	27829.370	27821.780	8	3593.326 ^A	-1	5.956	6.401	...	
		3-3	2.62	27732.681	27725.117	0	3605.854 ^A	0	5.921	6.368	...	
		1-1	2.42	27727.490	27719.928	0	3606.529 ^A	0	5.978	6.426	...	
		4-4	2.68	27036.731	27029.356	7	3698.672 ^A	-1	5.874	6.332	...	
		1-0	2.34	26880.174	26872.842	7	3720.214 ^A	-1	5.978	6.440	...	
		2-1	2.32	26376.998	26369.803	-7	3791.182 ^A	1	5.956	6.426	...	
		4-3	2.72	25103.949	25097.101	-6	3983.437 ^A	1	5.874	6.368	...	
		5-4	3.11	24563.265	24556.564	6	4071.120 ^A	-1	5.828	6.332	...	
2202	$e^5F-v^3F^o$	4-3	1.86	25079.269	25072.428	-13	3987.357 ^A	2	5.874	6.368	...	
		5-4	1.53	23260.752	23254.406	60	4299.087 ^A	-11	5.828	6.361	...	
2203	$e^5F-u^5P^o$	3-2	2.19	23870.644	23864.131	0	4189.246 ^A	0	5.921	6.440	...	
		4-3	2.60	23180.052	23173.728	5	4314.054 ^A	-1	5.874	6.409	...	
2204	$e^5F-t^3D^o$	4-3	1.83	20681.342	20675.698	-4	4835.276 ^A	1	5.874	6.473	...	
		3-2	1.41	20294.757	20289.218	0	4927.381 ^A	0	5.921	6.532	...	
2205	$e^5F-w^3H^o$	4-5	1.20	19101.715	19096.501	4	5235.132 ^A	-1	5.874	6.523	...	
2206	$e^5F-^4F5p^3G^o$	4-5	3.45	18419.456	18414.427	7	5429.042 ^A	-2	5.874	6.547	...	
		5-5	2.31	17236.939	17232.232	0	5801.494 ^A	0	5.828	6.547	...	
		3-4	3.17	15969.231	15964.869	3	6262.042 ^D	-1	5.921	6.697	...	I
		2-3	2.59	15820.957	15816.635	0	6320.730 ^A	0	5.956	6.739	...	
		3-3	1.96	15147.234	15143.096	2	6601.865 ^A	-1	5.921	6.739	...	
		4-3	1.65	14327.780	14323.865	0	6979.448 ^A	0	5.874	6.739	...	
2207	$e^5F-Gsp3^3F^o$	3-4	0.48	19237.835	19232.584	4	5198.090 ^A	-1	5.921	6.565	...	
		4-4	3.16	17935.054	17930.158	0	5575.673 ^A	0	5.874	6.565	...	
		3-3	2.88	17850.840	17845.967	-3	5601.977 ^D	1	5.921	6.615	...	I
		2-2	2.26	17504.762	17499.983	-3	5712.731 ^A	1	5.956	6.664	...	
		5-4	1.85	16812.029	16807.438	0	5948.122 ^A	0	5.828	6.565	...	
		4-3	2.67	16723.644	16719.077	3	5979.558 ^A	-1	5.874	6.615	...	
		3-2	2.40	16683.720	16679.164	-3	5993.867 ^A	1	5.921	6.664	...	
2208	$e^5F-^4F5p^5G^o$	1-2	3.25	16566.294	16561.770	0	6036.353 ^A	0	5.978	6.727	...	
		5-6	3.93	16491.173	16486.669	-3	6063.850 ^A	1	5.828	6.580	...	
		3-4	3.25	16402.649	16398.169	0	6096.576 ^A	0	5.921	6.677	...	
		2-3	3.39	16398.870	16394.391	0	6097.981 ^A	0	5.956	6.712	...	
		4-5	3.62	16106.807	16102.408	-3	6208.555 ^D	1	5.874	6.644	...	I
		2-2	2.26	16074.575	16070.185	3	6221.004 ^A	-1	5.956	6.727	...	
		3-3	1.90	15676.153	15671.871	0	6379.116 ^A	0	5.921	6.712	...	
		4-4	1.61	15446.021	15441.802	-2	6474.159 ^A	1	5.874	6.677	...	
		3-2	2.15	15379.554	15375.352	2	6502.139 ^A	-1	5.921	6.727	...	
		4-3	0.90	14800.119	14796.076	-9	6756.702 ^B	4	5.874	6.712	...	
		5-4	0.60	14605.770	14601.779	-4	6846.609 ^A	2	5.828	6.677	...	
2209	$e^5F-^4F5p^5F^o$	2-3	1.64	17779.655	17774.801	-3	5624.406 ^A	1	5.956	6.653	...	
		3-4	2.54	17752.224	17747.377	3	5633.097 ^A	-1	5.921	6.619	...	
		1-2	1.26	17178.553	17173.862	-30	5821.212 ^D	10	5.978	6.700	...	I
		3-3	2.33	16933.252	16928.628	-3	5905.540 ^A	1	5.921	6.653	...	
		1-1	2.82	16658.082	16653.533	8	6003.092 ^A	-3	5.978	6.723	...	
		2-2	3.00	16650.424	16645.877	-3	6005.853 ^A	1	5.956	6.700	...	
		4-4	2.23	16637.052	16632.509	0	6010.680 ^A	0	5.874	6.619	...	
		5-5	3.79	16449.311	16444.818	0	6079.282 ^A	0	5.828	6.581	...	
		2-1	2.72	16160.978	16156.564	5	6187.744 ^A	-2	5.956	6.723	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2210	$e^5F-z^1I^\circ$	4-3	3.23	15915.652	15911.304	-3	6283.123 ^A	1	5.874	6.653	...	
		3-2	2.72	15905.865	15901.520	-3	6286.989 ^A	1	5.921	6.700	...	
		5-4	3.46	15666.297	15662.018	0	6383.129 ^A	0	5.828	6.619	...	
2211	$e^5F-y^1H^\circ$	5-6	0.85	16425.698	16421.213	3	6088.021 ^A	-1	5.828	6.583	...	
2212	$e^5F-^4F5p^3F^\circ$	4-5	2.50	16847.837	16843.236	6	5935.480 ^A	-2	5.874	6.610	...	
		5-5	1.38	15853.048	15848.718	-10	6307.935 ^A	4	5.828	6.610	...	
2212	$e^5F-^4F5p^3F^\circ$	3-4	2.96	17942.703	17937.805	0	5573.296 ^A	0	5.921	6.612	...	
		4-4	2.72	16804.240	16799.651	0	5950.879 ^A	0	5.874	6.612	...	
		2-3	1.51	15993.963	15989.594	0	6252.359 ^A	0	5.956	6.731	...	
		5-4	2.73	15814.457	15810.137	0	6323.328 ^A	0	5.828	6.612	...	
		1-2	1.18	15420.062	15415.850	7	6485.058 ^A	-3	5.978	6.782	...	
		3-3	2.52	15305.743	15301.562	2	6533.495 ^A	-1	5.921	6.731	...	
		2-2	1.38	14993.155	14989.059	7	6669.710 ^A	-3	5.956	6.782	...	
		4-3	2.61	14469.524	14465.570	0	6911.077 ^D	0	5.874	6.731	...	II
		3-2	1.66	14386.717	14382.785	-17	6950.856 ^A	8	5.921	6.782	...	
2213	$e^5F-^4F5p^5D^\circ$	3-4	2.26	17079.816	17075.152	26	5854.864 ^A	-9	5.921	6.647	...	
		4-4	3.41	16045.039	16040.656	-3	6232.456 ^A	1	5.874	6.647	...	
		1-2	1.98	15849.548	15845.219	0	6309.328 ^A	0	5.978	6.761	...	
		1-1	2.68	15669.525	15665.245	0	6381.814 ^A	0	5.978	6.770	...	
		2-2	3.39	15398.879	15394.672	0	6493.979 ^D	0	5.956	6.761	...	I
		2-1	2.71	15228.891	15224.731	-2	6566.466 ^A	1	5.956	6.770	...	
		5-4	2.68	15140.263	15136.126	0	6604.905 ^A	0	5.828	6.647	...	
		3-2	2.45	14759.897	14755.864	-2	6775.115 ^A	1	5.921	6.761	...	
2214	$e^5F-Disp3^5F^\circ$	2-2	1.93	17585.803	17581.001	0	5686.405 ^A	0	5.956	6.661	...	
		2-3	2.61	17553.344	17548.551	-3	5696.920 ^A	1	5.956	6.662	...	
		3-2	1.90	16757.321	16752.744	-3	5967.541 ^A	1	5.921	6.661	...	
		3-3	2.82	16727.848	16723.280	0	5978.055 ^A	0	5.921	6.662	...	
		3-4	2.81	16323.159	16318.701	5	6126.265 ^A	-2	5.921	6.680	...	
		4-3	2.53	15734.061	15729.763	-5	6355.638 ^A	2	5.874	6.662	...	
		4-4	0.95	15375.517	15371.317	7	6503.846 ^A	-3	5.874	6.680	...	
2215	$e^5F-x^1F^\circ$	2-3	1.85	17462.356	17457.588	3	5726.604 ^A	-1	5.956	6.666	...	
		3-3	1.32	16645.191	16640.645	0	6007.741 ^B	0	5.921	6.666	...	
		4-3	2.14	15660.919	15656.641	5	6385.321 ^A	-2	5.874	6.666	...	
2216	$e^5F-x^3S^\circ$	2-1	1.62	17325.977	17321.247	3	5771.680 ^A	-1	5.956	6.671	...	
2217	$e^5F-^4F5p^3D^\circ$	2-3	2.28	17237.881	17233.174	0	5801.177 ^A	0	5.956	6.675	...	
		3-3	2.82	16441.116	16436.626	0	6082.312 ^A	0	5.921	6.675	...	
		1-2	2.63	16335.990	16331.529	3	6121.453 ^A	-1	5.978	6.737	...	
		2-2	2.52	15857.651	15853.320	3	6306.104 ^A	-1	5.956	6.737	...	
		1-1	1.94	15183.898	15179.750	2	6585.924 ^A	-1	5.978	6.795	...	
		3-2	2.39	15180.864	15176.717	2	6587.240 ^A	-1	5.921	6.737	...	
		2-1	1.46	14769.789	14765.754	-4	6770.577 ^A	2	5.956	6.795	...	
2218	$e^5F-Disp3^5D^\circ$	3-3	2.66	16297.299	16292.848	3	6135.986 ^A	-1	5.921	6.681	...	
		3-2	2.88	16240.404	16235.969	0	6157.482 ^A	0	5.921	6.684	...	
		3-4	0.48	15276.964	15272.790	-2	6545.803 ^B	1	5.921	6.732	...	
		4-4	1.81	14443.803	14439.856	-2	6923.384 ^A	1	5.874	6.732	...	
		5-4	2.32	13706.454	13702.707	0	7295.833 ^A	0	5.828	6.732	...	
2219	$e^5F-t^3G^\circ$	3-4	0.60	15427.634	15423.420	5	6481.875 ^A	-2	5.921	6.724	...	
		5-5	0.90	14331.199	14327.282	4	6977.783 ^A	-2	5.828	6.693	...	
		5-4	1.34	13827.613	13823.833	2	7231.906 ^A	-1	5.828	6.724	...	
2220	$e^5F-t^5P^\circ$	2-3	1.68	16755.911	16751.335	0	5968.043 ^A	0	5.956	6.696	...	
		1-1	1.11	16529.646	16525.132	3	6049.736 ^A	-1	5.978	6.729	...	
		2-2	2.41	16459.401	16454.906	3	6075.555 ^A	-1	5.956	6.709	...	
		3-3	2.74	16002.099	15997.728	-3	6249.180 ^A	1	5.921	6.696	...	
		4-3	2.33	15090.319	15086.196	-9	6626.765 ^A	4	5.874	6.696	...	
2221	$e^5F-w^1G^\circ$	4-4	1.23	13453.695	13450.017	-4	7432.902 ^A	2	5.874	6.795	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2222	$e^5F-s^6D6p^7D^o$	3-4	1.79	11413.942	11410.817	-13	8761.215 ^A	10	5.921	7.007	...	
2223	$e^5F-s^6D_{4,5}4f [6.5]^o$	5-6	1.63	10255.364	10252.554	1	9750.994 ^A	-1	5.828	7.037	...	
2224	$e^5F-s^6D_{3,5}4f [3.5]^o$	3-4	0.90	10645.579	10642.664	6	9393.570 ^B	-5	5.921	7.085	...	
	$e^5F-s^6D_{3,5}4f [5.5]^o$	4-5	1.04	10235.607	10232.802	12	9769.816 ^B	-11	5.874	7.085	...	
	$e^5F-s^6D_{3,5}4f [3.5]^o$	4-3	1.62	10233.592	10230.787	6	9771.740 ^B	-6	5.874	7.085	...	
2225	$e^5F-s^6D_{2,5}4f [3.5]^o$	2-3	1.28	10635.128	10632.215	12	9402.801 ^B	-11	5.956	7.121	...	
2226	$e^5F-s^6D_{1,5}4f [4.5]^o$	3-4	0.78	10135.418	10132.640	-2	9866.391 ^B	2	5.921	7.144	...	
2227	$e^5F-s^4D5p^5F^o$	3-4	1.20	9323.3495	9320.7920	3.5	10725.759 ^B	-4	5.921	7.251	...	
2228	$e^5F-^4F_{1,5}4f [4.5]^o$	3-4	1.53	8193.0808	8190.8289	-2.0	12205.421 ^B	3	5.921	7.434	...	
2229	$w^3D^o-f^5D$	3-3	1.93	28431.658	28423.904	16	3517.206 ^B	-2	5.829	6.265	...	
		3-2	1.96	27163.350	27155.941	0	3681.431 ^D	0	5.829	6.286	...	I
2230	$w^3D^o-e^7G$	3-4	1.32	23160.366	23154.047	5	4317.721 ^D	-1	5.829	6.365	...	II
		3-2	2.29	22111.536	22105.503	24	4522.526 ^A	-5	5.829	6.390	...	
2231	$w^3D^o-f^5F$	1-2	1.49	22558.148	22551.993	-5	4432.988 ^A	1	5.861	6.410	...	
		3-4	1.87	22499.809	22493.671	-5	4444.482 ^A	1	5.829	6.380	...	
		2-3	1.71	22381.288	22375.181	5	4468.018 ^D	-1	5.844	6.398	...	II
		2-2	1.67	21886.972	21881.000	10	4568.928 ^C	-2	5.844	6.410	...	
2232	$w^3D^o-e^5P$	2-3	1.43	21271.377	21265.573	0	4701.153 ^D	0	5.844	6.427	...	II
		3-3	1.11	20746.668	20741.006	-9	4820.051 ^B	2	5.829	6.427	...	
2233	$w^3D^o-g^5F$	3-4	1.28	15682.623	15678.339	0	6376.484 ^A	0	5.829	6.620	...	
		2-3	1.34	14936.763	14932.681	-2	6694.891 ^A	1	5.844	6.674	...	
		3-3	1.18	14676.128	14672.118	-2	6813.786 ^A	1	5.829	6.674	...	
		2-2	0.70	14042.157	14038.319	6	7121.413 ^B	-3	5.844	6.727	...	
2234	$w^3D^o-h^5D$	1-1	1.04	14576.146	14572.163	-2	6860.524 ^A	1	5.861	6.711	...	
		3-2	1.34	14389.582	14385.650	2	6949.472 ^A	-1	5.829	6.691	...	
		2-1	0.90	14292.932	14289.026	0	6996.465 ^A	0	5.844	6.711	...	
2235	$w^3D^o-f^5P$	3-2	1.54	15263.535	15259.365	0	6551.562 ^A	0	5.829	6.641	...	
		2-1	1.38	14729.462	14725.437	2	6789.114 ^A	-1	5.844	6.686	...	
2236	$w^3D^o-f^5G$	3-4	1.66	14810.889	14806.842	2	6751.789 ^A	-1	5.829	6.666	...	
		2-3	1.36	14234.770	14230.879	2	7025.052 ^A	-1	5.844	6.715	...	
2237	$w^3D^o-f^3D$	2-1	0.70	13673.783	13670.045	-7	7313.265 ^A	4	5.844	6.751	...	
2238	$w^3D^o-g^7D$	2-1	1.43	13137.990	13134.398	-2	7611.514 ^A	1	5.844	6.788	...	
2239	$w^3D^o-s^6D6s^5D$	3-3	0.95	12742.689	12739.204	8	7847.637 ^A	-5	5.829	6.802	...	
2240	$w^3D^o-f^3F$	3-3	1.20	12333.879	12330.505	0	8107.749 ^A	0	5.829	6.834	...	
2241	$w^5G^o-e^5G$	5-6	2.60	32229.837	32221.048	10	3102.715 ^A	-1	5.879	6.264	...	
		4-5	1.97	32114.873	32106.116	-10	3113.822 ^B	1	5.900	6.286	...	
2242	$w^5G^o-f^5F$	5-5	1.70	27152.043	27144.638	-15	3682.964 ^B	2	5.879	6.336	...	
2243	$w^5G^o-g^5F$	5-5	1.64	17727.073	17722.233	-3	5641.089 ^A	1	5.879	6.579	...	
		3-4	0.30	17542.551	17537.761	25	5700.425 ^A	-8	5.913	6.620	...	
2244	$w^5G^o-h^5D$	5-4	1.32	17437.047	17432.286	0	5734.916 ^A	0	5.879	6.590	...	
		3-3	1.08	17086.466	17081.801	23	5852.585 ^B	-8	5.913	6.639	...	
		4-3	0.78	16790.395	16785.809	-8	5955.786 ^A	3	5.900	6.639	...	
		2-2	0.30	16298.561	16294.109	-11	6135.511 ^B	4	5.930	6.691	...	
2245	$w^5G^o-f^5G$	4-5	1.30	17569.628	17564.831	0	5691.640 ^A	0	5.900	6.606	...	
		5-6	1.94	17394.580	17389.831	-3	5748.917 ^D	1	5.879	6.592	...	II
		6-6	1.11	17224.256	17219.552	9	5805.766 ^A	-3	5.872	6.592	...	
		3-4	0.95	16458.897	16454.402	-8	6075.741 ^A	3	5.913	6.666	...	
		4-4	2.66	16184.005	16179.585	-29	6178.940 ^D	11	5.900	6.666	...	I
		2-3	0.60	15797.830	15793.515	5	6329.983 ^A	-2	5.930	6.715	...	
		3-3	0.30	15460.978	15456.754	7	6467.896 ^D	-3	5.913	6.715	...	I

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2246	$w^5G^o - e^5H$	3-2	1.38	14964.575	14960.487	-27	6682.448 ^B	12	5.913	6.741	...	II
		6-7	1.41	16915.307	16910.688	3	5911.805 ^A	-1	5.872	6.605	...	
		5-6	1.54	16855.527	16850.924	-34	5932.772 ^D	12	5.879	6.615	...	
		4-5	1.41	15912.909	15908.562	5	6284.206 ^A	-2	5.900	6.679	...	
		3-4	1.46	15281.243	15277.068	7	6543.970 ^A	-3	5.913	6.724	...	
		4-4	1.43	15043.991	15039.881	-18	6647.172 ^D	8	5.900	6.724	...	
		2-3	1.41	15015.366	15011.264	0	6659.844 ^A	0	5.930	6.756	...	
2247	$w^5G^o - e^3G$	5-5	0.90	15824.757	15820.435	-8	6319.212 ^A	3	5.879	6.663	...	
		4-4	1.00	15440.512	15436.294	0	6476.469 ^A	0	5.900	6.703	...	
		3-3	0.70	14956.301	14952.215	-4	6686.145 ^A	2	5.913	6.742	...	
2248	$w^5G^o - e^3H$	5-6	1.72	15575.375	15571.120	-2	6420.391 ^A	1	5.879	6.675	...	
		4-5	1.28	14977.533	14973.440	0	6676.667 ^A	0	5.900	6.728	...	
		3-4	0.78	14572.637	14568.654	4	6862.176 ^A	-2	5.913	6.764	...	
2249	$w^5G^o - s^6D6s^5D$	5-4	1.45	14164.966	14161.094	2	7059.671 ^A	-1	5.879	6.754	...	
		4-3	0.70	13746.120	13742.362	2	7274.780 ^A	-1	5.900	6.802	...	
2250	$w^5G^o - f^3F$	3-3	0.60	13455.867	13452.189	-7	7431.702 ^B	4	5.913	6.834	...	
2251	$w^5G^o - s^4D4d^5P$	3-2	1.58	9505.8073	9503.2004	-1.8	10519.885 ^A	2	5.913	7.217	...	II
		2-3	1.46	9389.0534	9386.4780	0.0	10650.701 ^D	0	5.930	7.251	...	
2252	$v^5F^o - e^7F$	4-5	2.23	34441.891	34432.500	-12	2903.441 ^A	1	5.942	6.302	...	
		2-3	2.04	34364.308	34354.938	47	2909.996 ^B	-4	5.981	6.341	...	
		1-2	2.02	33552.047	33542.899	11	2980.444 ^B	-1	5.995	6.364	...	
2253	$v^5F^o - e^5G$	4-5	2.65	36050.690	36040.860	13	2773.872 ^A	-1	5.942	6.286	...	
		3-4	2.72	35006.050	34996.505	12	2856.649 ^A	-1	5.966	6.320	...	
		5-6	2.75	34283.794	34274.446	0	2916.830 ^A	0	5.902	6.264	...	
		2-3	1.99	33555.155	33546.005	-11	2980.168 ^B	1	5.981	6.350	...	
		1-2	3.10	33117.704	33108.673	55	3019.533 ^A	-5	5.995	6.369	...	
		4-4	2.45	32791.379	32782.437	0	3049.582 ^A	0	5.942	6.320	...	
		5-5	2.01	32281.442	32272.639	10	3097.755 ^D	-1	5.902	6.286	...	
2254	$v^5F^o - f^5F$	4-5	1.73	31513.968	31505.375	-20	3173.196 ^B	2	5.942	6.336	...	II
		2-3	1.86	29715.456	29707.352	26	3365.252 ^B	-3	5.981	6.398	...	
2255	$v^5F^o - e^5S$	2-2	1.93	34363.564	34354.194	35	2910.059 ^B	-3	5.981	6.341	...	
2256	$v^5F^o - e^5P$	2-3	1.85	27790.183	27782.603	-15	3598.393 ^D	2	5.981	6.427	...	I
		1-2	1.60	26904.415	26897.077	0	3716.862 ^B	0	5.995	6.455	...	
		2-1	1.38	26449.302	26442.088	28	3780.818 ^B	-4	5.981	6.449	...	
2257	$v^5F^o - g^5F$	3-4	0.00	18972.642	18967.463	-11	5270.747 ^B	3	5.966	6.620	...	
		5-5	1.58	18331.120	18326.115	-7	5455.204 ^A	2	5.902	6.579	...	
		2-3	0.78	17882.289	17877.407	6	5592.125 ^B	-2	5.981	6.674	...	
		1-1	0.85	16568.416	16563.891	-3	6035.580 ^A	1	5.995	6.743	...	
		3-2	0.78	16301.045	16296.593	-11	6134.576 ^B	4	5.966	6.727	...	
2258	$v^5F^o - h^5D$	4-4	0.48	19138.221	19132.997	0	5225.146 ^B	0	5.942	6.590	...	
		5-4	1.15	18021.170	18016.250	3	5549.029 ^A	-1	5.902	6.590	...	
		4-3	1.54	17806.803	17801.942	13	5615.831 ^A	-4	5.942	6.639	...	
		3-2	1.00	17112.343	17107.670	-6	5843.735 ^A	2	5.966	6.691	...	
2259	$v^5F^o - f^5G$	5-6	1.63	17975.815	17970.907	3	5563.030 ^A	-1	5.902	6.592	...	I
		3-4	2.69	17711.466	17706.630	-35	5646.060 ^D	11	5.966	6.666	...	
		5-5	1.38	17619.338	17614.527	-25	5675.582 ^D	8	5.902	6.606	...	
		4-4	1.28	17126.276	17121.599	0	5838.981 ^A	0	5.942	6.666	...	
		2-3	1.23	16885.380	16880.769	20	5922.283 ^B	-7	5.981	6.715	...	
		1-2	1.46	16597.314	16592.782	-6	6025.071 ^A	2	5.995	6.741	...	
		3-3	1.00	16561.207	16556.684	5	6038.207 ^A	-2	5.966	6.715	...	
2260	$v^5F^o - e^5H$	4-5	0.60	16822.934	16818.340	-23	5944.266 ^D	8	5.942	6.679	...	I
		3-4	0.70	16355.152	16350.686	5	6114.281 ^A	-2	5.966	6.724	...	
2261	$v^5F^o - e^3G$	4-5	1.81	17213.366	17208.665	0	5809.439 ^A	0	5.942	6.663	...	
		3-4	1.75	16824.853	16820.259	0	5943.588 ^A	0	5.966	6.703	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2262	$v^5F^o-f^3D$	2-3	1.04	16285.223	16280.775	-3	6140.536 ^A	1	5.981	6.742	...	
		3-3	1.15	17779.127	17774.273	-6	5624.573 ^A	2	5.966	6.664	...	
		2-2	0.70	17158.765	17154.080	-3	5827.925 ^A	1	5.981	6.703	...	
		3-2	0.70	16824.126	16819.532	-3	5943.845 ^A	1	5.966	6.703	...	
2263	$v^5F^o-g^7D$	5-5	0.30	16142.738	16138.328	21	6194.736 ^D	-8	5.902	6.670	...	I
		4-4	0.30	16142.738	16138.328	26	6194.736 ^D	-10	5.942	6.710	...	I
2264	$v^5F^o-e^3H$	4-5	0.78	15781.044	15776.734	2	6336.716 ^A	-1	5.942	6.728	...	
2265	$v^5F^o-s^6D6s^5D$	4-4	1.28	15267.406	15263.235	5	6549.901 ^A	-2	5.942	6.754	...	
		2-3	0.78	15092.095	15087.972	-5	6625.985 ^A	2	5.981	6.802	...	
		3-3	1.52	14832.622	14828.569	13	6741.896 ^A	-6	5.966	6.802	...	
		5-4	1.51	14548.019	14544.043	-2	6873.788 ^A	1	5.902	6.754	...	
		2-2	1.51	14502.586	14498.622	-6	6895.322 ^D	3	5.981	6.836	...	II
		4-3	1.45	14419.957	14416.017	-2	6934.833 ^A	1	5.942	6.802	...	
		1-1	1.15	14378.099	14374.170	-4	6955.022 ^A	2	5.995	6.857	...	
		3-2	1.20	14262.812	14258.914	-4	7011.240 ^A	2	5.966	6.836	...	
2266	$v^5F^o-f^3F$	3-4	0.60	15242.982	15238.817	-7	6560.396 ^A	3	5.966	6.780	...	
		4-4	0.30	14807.518	14803.472	-4	6753.326 ^A	2	5.942	6.780	...	
2267	$x^3G^o-e^5G$	5-6	2.49	37196.956	37186.814	14	2688.392 ^A	-1	5.931	6.264	...	
		4-5	2.17	34581.136	34571.706	24	2891.750 ^B	-2	5.928	6.286	...	
2268	$x^3G^o-g^5F$	5-5	0.30	19132.274	19127.052	-15	5226.770 ^A	4	5.931	6.579	...	
2269	$x^3G^o-h^5D$	4-3	0.78	17440.702	17435.940	0	5733.714 ^A	0	5.928	6.639	...	
2270	$x^3G^o-f^5G$	5-6	0.78	18745.565	18740.448	-4	5334.595 ^A	1	5.931	6.592	...	
2271	$x^3G^o-e^3G$	4-5	1.00	16871.036	16866.429	0	5927.318 ^A	0	5.928	6.663	...	
		3-3	1.00	15278.486	15274.312	23	6545.151 ^B	-10	5.930	6.742	...	
2272	$x^3G^o-e^3H$	5-6	0.60	16649.828	16645.281	0	6006.068 ^B	0	5.931	6.675	...	
2273	$x^3G^o-s^6D6s^5D$	5-4	1.15	15048.105	15043.993	-11	6645.355 ^A	5	5.931	6.754	...	
		4-3	0.90	14178.934	14175.059	-10	7052.716 ^D	5	5.928	6.802	...	II
2274	$x^3G^o-s^6D5d^7G$	5-4	1.97	10728.124	10725.186	14	9321.294 ^D	-12	5.931	7.086	...	I
2275	$x^3G^o-g^5G$	5-5	1.36	9581.3836	9578.7562	4.6	10436.906 ^D	-5	5.931	7.224	...	II
		4-3	3.64	9176.0613	9173.5436	4.2	10897.922 ^C	-5	5.928	7.279	...	
2276	$x^3G^o-s^4D4d^5P$	3-2	2.01	9634.9352	9632.2933	3.7	10378.897 ^A	-4	5.930	7.217	...	
2277	$x^3G^o-s^6D7s^5D$	3-4	2.46	9535.4637	9532.8487	-6.4	10487.167 ^A	7	5.930	7.231	...	
2278	$x^3G^o-^4F5d^3G$	4-5	1.97	9091.0025	9088.5078	6.6	10999.887 ^B	-8	5.928	7.292	...	
2279	$y^5H^o-61724^e$	3-4	1.15	7547.6603	7545.5827	1.7	13249.139 ^B	-3	6.010	7.653	...	
		4-4	1.48	7483.3798	7481.3195	-0.6	13362.946 ^B	1	5.996	7.653	...	
2280	$e^3F-u^5P^o$	4-3	2.02	26801.977	26794.667	7	3731.068 ^B	-1	5.946	6.409	...	
2281	$e^3F-u^3D^o$	4-3	2.71	24949.097	24942.291	0	4008.161 ^A	0	5.946	6.443	...	
2282	$e^3F-t^3D^o$	2-1	1.85	25449.080	25442.139	0	3929.415 ^A	0	6.066	6.553	...	
		3-2	2.70	24090.267	24083.695	0	4151.054 ^A	0	6.017	6.532	...	
		4-3	2.56	23516.745	23510.330	6	4252.289 ^A	-1	5.946	6.473	...	
2283	$e^3F-w^3H^o$	4-5	1.60	21495.456	21489.590	9	4652.146 ^A	-2	5.946	6.523	...	
2284	$e^3F-^4F5p^3G^o$	4-5	3.42	20635.328	20629.697	4	4846.058 ^A	-1	5.946	6.547	...	
		3-4	3.27	18229.170	18224.194	3	5485.713 ^A	-1	6.017	6.697	...	
		3-3	2.97	17165.796	17161.109	3	5825.538 ^A	-1	6.017	6.739	...	
		4-4	2.76	16510.807	16506.298	0	6056.639 ^A	0	5.946	6.697	...	
		4-3	1.59	15633.642	15629.371	2	6396.462 ^A	-1	5.946	6.739	...	
2285	$e^3F-v^3P^o$	2-1	1.83	23247.428	23241.086	5	4301.551 ^A	-1	6.066	6.599	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2286	$e^3F-Gsp3^3F^o$	2-2	2.61	20742.520	20736.859	4	4821.015 ^A	-1	6.066	6.664	...	
		3-3	2.78	20722.609	20716.954	9	4825.647 ^A	-2	6.017	6.615	...	
		4-4	3.17	20029.294	20023.828	4	4992.687 ^A	-1	5.946	6.565	...	
		3-2	1.79	19166.124	19160.892	0	5217.539 ^A	0	6.017	6.664	...	
		4-3	2.29	18530.281	18525.223	3	5396.572 ^A	-1	5.946	6.615	...	
2287	$e^3F-^4F5p^5G^o$	2-3	2.14	19207.627	19202.384	4	5206.265 ^A	-1	6.066	6.712	...	
		3-4	1.88	18796.116	18790.985	0	5320.248 ^A	0	6.017	6.677	...	
		3-3	2.67	17848.253	17843.380	3	5602.789 ^A	-1	6.017	6.712	...	
		4-5	3.31	17775.979	17771.126	0	5625.569 ^A	0	5.946	6.644	...	
		3-2	1.60	17464.781	17460.012	9	5725.809 ^A	-3	6.017	6.727	...	
		4-4	3.00	16974.548	16969.912	-3	5891.173 ^A	1	5.946	6.677	...	
		4-3	1.00	16197.718	16193.294	13	6173.709 ^A	-5	5.946	6.712	...	
2288	$e^3F-^4F5p^5F^o$	2-3	2.06	21129.636	21123.871	0	4732.689 ^A	0	6.066	6.653	...	
		3-4	2.56	20589.815	20584.196	4	4856.770 ^D	-1	6.017	6.619	...	II
		2-2	1.69	19553.629	19548.292	-11	5114.140 ^D	3	6.066	6.700	...	I
		4-5	1.94	19516.585	19511.259	4	5123.847 ^A	-1	5.946	6.581	...	
		3-3	1.94	19496.172	19490.850	0	5129.212 ^A	0	6.017	6.653	...	
		2-1	1.85	18882.054	18876.899	-11	5296.034 ^A	3	6.066	6.723	...	
		4-4	2.36	18424.030	18419.001	3	5427.694 ^A	-1	5.946	6.619	...	
		4-3	2.41	17543.425	17538.635	-9	5700.141 ^D	3	5.946	6.653	...	I
2289	$e^3F-y^1H^o$	4-5	1.57	18682.879	18677.779	10	5352.494 ^A	-3	5.946	6.610	...	
2290	$e^3F-^4F5p^3F^o$	3-4	3.08	20846.501	20840.812	4	4796.968 ^A	-1	6.017	6.612	...	
		2-3	1.98	18654.478	18649.386	3	5360.643 ^A	-1	6.066	6.731	...	
		4-4	1.81	18629.279	18624.194	0	5367.894 ^D	0	5.946	6.612	...	I
		3-3	1.46	17369.657	17364.914	3	5757.166 ^A	-1	6.017	6.731	...	
		2-2	3.16	17307.044	17302.318	9	5777.994 ^A	-3	6.066	6.782	...	
		3-2	1.23	16195.593	16191.170	5	6174.519 ^A	-2	6.017	6.782	...	
		4-3	2.47	15802.551	15798.235	2	6328.092 ^A	-1	5.946	6.731	...	
2291	$e^3F-^4F5p^5D^o$	3-4	2.27	19690.679	19685.304	0	5078.545 ^A	0	6.017	6.647	...	
		3-3	1.59	19037.157	19031.961	-4	5252.885 ^A	1	6.017	6.668	...	
		4-4	2.59	17700.775	17695.942	0	5649.470 ^A	0	5.946	6.647	...	
		2-1	2.05	17621.924	17617.113	3	5674.749 ^A	-1	6.066	6.770	...	
		4-3	2.59	17170.886	17166.198	-6	5823.811 ^A	2	5.946	6.668	...	
		3-2	2.98	16670.036	16665.484	-3	5998.787 ^A	1	6.017	6.761	...	
2292	$e^3F-Dsp3^5F^o$	2-1	1.23	20971.047	20965.324	-4	4768.479 ^B	1	6.066	6.657	...	
		2-2	1.93	20856.410	20850.718	4	4794.689 ^A	-1	6.066	6.661	...	
		2-3	2.84	20810.775	20805.096	0	4805.203 ^A	0	6.066	6.662	...	
		3-2	2.11	19263.331	19258.073	11	5191.210 ^A	-3	6.017	6.661	...	
		3-3	2.49	19224.380	19219.133	-7	5201.728 ^A	2	6.017	6.662	...	
		3-4	1.41	18691.808	18686.706	10	5349.937 ^A	-3	6.017	6.680	...	
		4-3	2.48	17323.069	17318.339	9	5772.649 ^D	-3	5.946	6.662	...	II
		4-4	2.26	16889.432	16884.820	6	5920.862 ^A	-2	5.946	6.680	...	
		4-5	1.20	16521.257	16516.745	8	6052.808 ^A	-3	5.946	6.697	...	
2293	$e^3F-x^1F^o$	2-3	2.08	20683.002	20677.358	9	4834.888 ^A	-2	6.066	6.666	...	
		3-3	1.86	19115.272	19110.054	-18	5231.419 ^D	5	6.017	6.666	...	II
		4-3	0.60	17234.420	17229.714	-12	5802.342 ^B	4	5.946	6.666	...	
2294	$e^3F-x^3S^o$	2-1	1.38	20491.954	20486.362	8	4879.964 ^B	-2	6.066	6.671	...	
2295	$e^3F-^4F5p^3D^o$	2-3	2.39	20368.834	20363.276	4	4909.461 ^D	-1	6.066	6.675	...	II
		2-2	1.38	18469.301	18464.259	0	5414.390 ^A	0	6.066	6.737	...	
		3-2	2.97	17209.002	17204.303	3	5810.912 ^A	-1	6.017	6.737	...	
		4-3	3.12	17015.747	17011.101	0	5876.909 ^A	0	5.946	6.675	...	
		2-1	2.96	17010.094	17005.449	-3	5878.862 ^A	1	6.066	6.795	...	
2296	$e^3F-Dsp3^5D^o$	2-3	1.98	20148.559	20143.060	8	4963.134 ^A	-2	6.066	6.681	...	
		2-2	1.52	20061.673	20056.198	8	4984.629 ^A	-2	6.066	6.684	...	
		3-3	2.06	18657.906	18652.813	3	5359.658 ^A	-1	6.017	6.681	...	
		3-2	2.03	18583.374	18578.301	-3	5381.154 ^D	1	6.017	6.684	...	Ne
		4-3	1.23	16861.748	16857.144	6	5930.583 ^A	-2	5.946	6.681	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2297	$e^3F-t^3G^o$	4-4	2.21	15771.880	15767.572	2	6340.398 ^A	-1	5.946	6.732	...	
		2-3	0.78	17630.580	17625.766	-6	5671.963 ^A	2	6.066	6.769	...	
		4-5	1.86	16604.824	16600.290	14	6022.346 ^A	-5	5.946	6.693	...	
		3-3	2.75	16478.585	16474.085	3	6068.482 ^A	-1	6.017	6.769	-0.96 ^a	
		4-4	2.51	15932.520	15928.168	5	6276.471 ^A	-2	5.946	6.724	...	
2298	$e^3F-t^5P^o$	4-3	1.15	15061.586	15057.471	2	6639.407 ^A	-1	5.946	6.769	...	
		2-3	1.91	19699.278	19693.902	4	5076.328 ^A	-1	6.066	6.696	...	
		3-3	2.05	18272.012	18267.023	0	5472.851 ^A	0	6.017	6.696	...	
		3-2	1.04	17919.978	17915.085	-3	5580.364 ^A	1	6.017	6.709	...	
		4-3	2.86	16545.944	16541.426	0	6043.777 ^D	0	5.946	6.696	...	II
2299	$e^3F-s^3G^o$	2-3	1.82	14572.371	14568.389	11	6862.301 ^D	-5	6.066	6.917	...	II
		3-4	2.05	13561.776	13558.069	9	7373.665 ^A	-5	6.017	6.931	...	
		4-5	1.79	13388.899	13385.238	7	7468.874 ^A	-4	5.946	6.872	...	
2300	$e^3F-v^3H^o$	3-4	1.57	14463.123	14459.170	10	6914.136 ^A	-5	6.017	6.874	...	
2301	$e^3F-^2H4p^1H^o$	4-5	1.94	12584.576	12581.134	2	7946.235 ^A	-1	5.946	6.931	...	
2302	$e^3F-Gsp3^1F^o$	2-3	1.85	13948.084	13944.272	8	7169.443 ^A	-4	6.066	6.955	...	
2303	$e^3F-u^3H^o$	4-4	0.70	11817.066	11813.833	6	8462.337 ^B	-4	5.946	6.995	...	
2304	$e^3F-u^3F^o$	2-2	1.68	12609.925	12606.476	5	7930.261 ^A	-3	6.066	7.049	...	
		3-3	1.57	12119.076	12115.760	3	8251.454 ^A	-2	6.017	7.040	...	
2305	$e^3F-Dsp1^3D^o$	2-2	1.26	12275.174	12271.816	3	8146.524 ^D	-2	6.066	7.076	...	Ne
		3-2	1.08	11705.424	11702.220	1	8543.048 ^B	-1	6.017	7.076	...	
2306	$e^3F-t^3F^o$	2-2	0.90	11389.066	11385.948	1	8780.351 ^A	-1	6.066	7.155	...	
2307	$e^3F-Hsp1^3G^o$	2-3	0.78	10339.175	10336.342	3	9671.951 ^B	-3	6.066	7.265	...	
2308	$e^3F-Fsp1^3F^o$	4-4	0.95	8240.8565	8238.5918	-2.0	12134.661 ^C	3	5.946	7.451	...	
2309	$v^5P^o-e^7F$	1-1	3.13	34268.521	34259.177	-35	2918.130 ^A	3	5.987	6.349	...	
		3-3	2.26	31424.178	31415.609	-10	3182.263 ^D	1	5.947	6.341	...	II
2310	$v^5P^o-f^7D$	2-3	2.44	37059.409	37049.305	0	2698.370 ^A	0	5.971	6.306	...	
		2-2	2.20	35270.892	35261.275	-12	2835.199 ^A	1	5.971	6.323	...	
		3-2	2.78	32980.888	32971.895	0	3032.059 ^A	0	5.947	6.323	...	
2311	$v^5P^o-f^5D$	3-4	2.88	40707.479	40696.381	17	2456.551 ^A	-1	5.947	6.251	...	
		1-0	2.16	37158.959	37148.828	0	2691.141 ^A	0	5.987	6.321	...	
		2-1	2.24	36809.987	36799.951	14	2716.654 ^A	-1	5.971	6.308	...	
		3-2	2.63	36602.765	36592.785	13	2732.034 ^A	-1	5.947	6.286	...	
2312	$v^5P^o-e^7P$	2-3	2.59	40852.760	40841.622	-17	2447.815 ^A	1	5.971	6.275	...	
		3-4	3.14	39861.219	39850.351	-16	2508.704 ^A	1	5.947	6.258	...	
		3-3	2.63	37811.843	37801.534	29	2644.674 ^A	-2	5.947	6.275	...	
2313	$v^5P^o-f^5F$	3-3	1.94	27491.288	27483.790	15	3637.516 ^A	-2	5.947	6.398	...	
2314	$v^5P^o-e^5S$	2-2	2.62	33495.642	33486.508	11	2985.463 ^A	-1	5.971	6.341	...	
		3-2	2.61	31423.576	31415.007	0	3182.324 ^D	0	5.947	6.341	...	II
2315	$v^5P^o-e^3D$	3-2	1.52	26501.762	26494.533	0	3773.334 ^B	0	5.947	6.415	...	
2316	$v^5P^o-g^5D$	2-3	1.57	27723.032	27715.471	15	3607.109 ^B	-2	5.971	6.419	...	
		3-2	1.80	24490.349	24483.668	-18	4083.241 ^B	3	5.947	6.453	...	
2317	$v^5P^o-e^5P$	2-3	2.52	27219.831	27212.407	0	3673.792 ^A	0	5.971	6.427	...	
		1-1	2.09	26811.117	26803.805	7	3729.796 ^A	-1	5.987	6.449	...	
		1-2	2.56	26471.848	26464.627	0	3777.598 ^A	0	5.987	6.455	...	
		2-1	2.35	25932.117	25925.043	7	3856.222 ^A	-1	5.971	6.449	...	
		3-3	2.40	25835.434	25828.386	0	3870.653 ^A	0	5.947	6.427	...	
		3-2	1.79	24384.992	24378.340	0	4100.883 ^A	0	5.947	6.455	...	
2318	$v^5P^o-e^5H$	3-4	0.00	15947.361	15943.005	-8	6270.630 ^B	3	5.947	6.724	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2319	$v^5P^o - e^3G$	3-4	0.78	16393.644	16389.166	16	6099.925 ^B	-6	5.947	6.703	...	
2320	$v^5P^o - g^7D$	3-4	1.41	16238.627	16234.192	5	6158.156 ^A	-2	5.947	6.710	...	
2321	$v^5P^o - s^6D6s^5D$	3-4	2.61	15353.162	15348.968	0	6513.316 ^A	0	5.947	6.754	...	
		2-3	1.91	14922.290	14918.213	-2	6701.384 ^A	1	5.971	6.802	...	
		1-2	1.45	14610.706	14606.714	-2	6844.296 ^A	1	5.987	6.836	...	
		3-3	1.56	14496.440	14492.479	0	6898.245 ^A	0	5.947	6.802	...	
		2-2	1.18	14345.720	14341.799	0	6970.720 ^A	0	5.971	6.836	...	
		1-1	1.34	14253.631	14249.736	-4	7015.756 ^A	2	5.987	6.857	...	
		2-1	1.52	14001.323	13997.496	-4	7142.182 ^A	2	5.971	6.857	...	
2322	$v^5P^o - ^4F6s^5F$	3-4	1.26	11696.407	11693.206	-4	8549.634 ^A	3	5.947	7.007	...	
2323	$v^5P^o - s^6D5d^5D$	3-4	1.51	12134.495	12131.175	-4	8240.969 ^A	3	5.947	6.969	...	
		3-3	1.73	11946.659	11943.390	-3	8370.541 ^A	2	5.947	6.985	...	
2324	$v^5P^o - s^6D5d^5F$	2-3	1.81	11677.546	11674.350	3	8563.443 ^D	-2	5.971	7.033	...	II
		3-3	1.36	11415.119	11411.995	-8	8760.311 ^A	6	5.947	7.033	...	
2325	$v^5P^o - s^6D5d^5P$	1-2	1.23	10973.021	10970.017	1	9113.260 ^B	-1	5.987	7.117	...	
2326	$v^5P^o - s^4D4d^5P$	2-2	3.59	9950.5696	9947.8421	0.0	10049.676 ^D	0	5.971	7.217	...	II
		3-3	1.15	9509.9802	9507.3721	0.0	10515.269 ^B	0	5.947	7.251	...	
2327	$v^5P^o - s^6D7s^5D$	2-2	3.75	9197.6681	9195.1446	-5.1	10872.321 ^D	6	5.971	7.319	...	
2328	$v^5P^o - ^4F5d^5F$	3-4	1.32	9411.3369	9408.7555	4.4	10625.483 ^B	-5	5.947	7.264	...	
2329	$v^5P^o - s^4D4d^3D$	2-3	0.60	9506.7183	9504.1111	-1.8	10518.877 ^B	2	5.971	7.275	...	
		3-3	1.30	9332.0710	9329.5111	0.0	10715.735 ^B	0	5.947	7.275	...	
		2-2	0.90	9245.2330	9242.6967	-7.7	10816.385 ^B	9	5.971	7.312	...	
2330	$v^5P^o - 59390^e$	3-3	1.93	8753.4294	8751.0261	3.1	11424.094 ^B	-4	5.947	7.363	...	
2331	$x^3P^o - e^5P$	2-3	1.91	28307.778	28300.057	-24	3532.598 ^B	3	5.989	6.427	...	
		1-2	1.92	28158.464	28150.784	8	3551.330 ^B	-1	6.015	6.455	...	
2332	$x^3P^o - f^5G$	2-3	0.95	17075.053	17070.391	-9	5856.497 ^A	3	5.989	6.715	...	
2333	$x^3P^o - e^3G$	2-3	1.26	16461.604	16457.108	-8	6074.742 ^A	3	5.989	6.742	...	
2334	$x^3P^o - s^6D6s^5D$	2-3	1.04	15243.460	15239.296	-7	6560.190 ^A	3	5.989	6.802	...	
		1-2	2.22	15110.259	15106.131	18	6618.020 ^D	-8	6.015	6.836	...	I
		2-1	0.95	14283.714	14279.811	6	7000.980 ^A	-3	5.989	6.857	...	
2335	$x^3P^o - f^3F$	1-2	1.11	14571.577	14567.595	-6	6862.675 ^A	3	6.015	6.866	...	
2336	$w^3F^o - e^5P$	2-1	2.79	38661.582	38651.041	-135	2586.547 ^A	9	6.129	6.449	...	
2337	$w^3F^o - e^5H$	4-3	1.20	18580.077	18575.005	-24	5382.109 ^B	7	6.089	6.756	...	
2338	$w^3F^o - e^3G$	2-3	1.11	20217.336	20211.818	4	4946.250 ^B	-1	6.129	6.742	...	
2339	$w^3F^o - e^3H$	4-4	0.48	18360.361	18355.348	13	5446.516 ^B	-4	6.089	6.764	...	
2340	$w^3F^o - f^3F$	4-4	1.54	17939.066	17934.169	-3	5574.426 ^B	1	6.089	6.780	...	
		2-3	0.70	17569.122	17564.325	6	5691.804 ^A	-2	6.129	6.834	...	
		3-3	1.18	17000.881	16996.238	6	5882.048 ^A	-2	6.105	6.834	...	
2341	$v^3D^o - g^5F$	2-3	1.38	21794.288	21788.342	-28	4588.358 ^A	6	6.105	6.674	...	
2342	$v^3D^o - f^5P$	2-3	2.48	25523.428	25516.466	7	3917.969 ^A	-1	6.105	6.591	...	
2343	$v^3D^o - f^3F$	3-4	1.11	18023.522	18018.601	-23	5548.305 ^A	7	6.092	6.780	...	
		3-3	1.20	16694.750	16690.190	17	5989.907 ^B	-6	6.092	6.834	...	
2344	$n^7D^o - g^7D$	4-5	2.97	23573.102	23566.671	6	4242.123 ^A	-1	6.144	6.670	0.31 ^a	
		3-4	2.92	23150.913	23144.597	11	4319.484 ^A	-2	6.175	6.710	-0.07 ^a	
		2-3	2.77	22746.643	22740.437	10	4396.253 ^A	-2	6.200	6.745	...	
		5-5	3.20	22479.411	22473.278	5	4448.515 ^D	-1	6.119	6.670	0.44 ^a	II
		1-2	2.47	22426.100	22419.981	-5	4459.090 ^A	1	6.218	6.771	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2345	$n^7D^\circ - s^6D6s^5D$	4-4	2.60	21900.973	21894.998	5	4566.007 ^A	-1	6.144	6.710	-0.35 ^a	I
		1-1	1.93	21762.889	21756.951	0	4594.978 ^A	0	6.218	6.788	...	
		3-3	2.08	21741.408	21735.476	14	4599.518 ^A	-3	6.175	6.745	...	
		2-1	2.00	21101.164	21095.406	0	4739.075 ^A	0	6.200	6.788	...	
		5-4	1.90	20953.817	20948.099	4	4772.400 ^A	-1	6.119	6.710	...	
		3-4	2.00	21392.003	21386.166	0	4674.644 ^D	0	6.175	6.754	...	
		2-3	1.46	20591.770	20586.150	-4	4856.309 ^A	1	6.200	6.802	...	
		4-4	1.40	20320.383	20314.837	-4	4921.167 ^A	1	6.144	6.754	...	
		2-2	3.45	19509.766	19504.441	27	5125.638 ^D	-7	6.200	6.836	...	
		5-4	0.90	19502.457	19497.134	4	5127.559 ^A	-1	6.119	6.754	...	
2346	$n^7D^\circ - ^4F6s^5F$	4-3	0.70	18846.269	18841.124	21	5306.090 ^B	-6	6.144	6.802	...	II
		4-5	1.08	15255.176	15251.008	0	6555.152 ^A	0	6.144	6.957	...	
2347	$n^7D^\circ - s^6D5d^5D$	3-4	0.85	15619.384	15615.117	-17	6402.301 ^A	7	6.175	6.969	...	
		3-3	1.32	15309.563	15305.380	5	6531.865 ^A	-2	6.175	6.985	...	
		4-4	1.23	15040.276	15036.167	5	6648.814 ^A	-2	6.144	6.969	...	
		3-2	1.59	14983.055	14978.962	-2	6674.206 ^A	1	6.175	7.002	...	
		2-1	1.30	14866.278	14862.216	2	6726.633 ^A	-1	6.200	7.034	...	
		4-3	1.32	14752.763	14748.732	0	6778.391 ^A	0	6.144	6.985	...	
2348	$n^7D^\circ - s^6D5d^5G$	5-6	1.56	14307.138	14303.228	0	6989.518 ^A	0	6.119	6.985	...	
		4-5	0.60	14302.255	14298.347	-12	6991.904 ^B	6	6.144	7.011	...	
		2-3	1.54	14190.248	14186.370	-2	7047.093 ^A	1	6.200	7.074	...	
		5-5	1.76	13892.182	13888.385	-4	7198.293 ^A	2	6.119	7.011	...	
2349	$n^7D^\circ - s^6D5d^7F$	1-1	2.05	14162.053	14158.182	2	7061.123 ^A	-1	6.218	7.093	...	
		5-6	2.84	14133.007	14129.144	-2	7075.635 ^A	1	6.119	6.996	...	
		2-3	2.45	14132.759	14128.896	-2	7075.759 ^A	1	6.200	7.077	...	
		4-5	2.21	13728.726	13724.973	0	7283.997 ^A	0	6.144	7.047	...	
		5-5	1.28	13350.437	13346.787	0	7490.391 ^A	0	6.119	7.047	...	
		3-4	1.65	13329.673	13326.029	4	7502.059 ^A	-2	6.175	7.105	...	
2350	$n^7D^\circ - s^6D5d^7D$	2-2	0.90	14632.112	14628.114	11	6834.283 ^B	-5	6.200	7.047	...	
		4-5	2.30	14549.088	14545.112	4	6873.283 ^A	-2	6.144	6.996	...	
		4-4	2.39	14506.882	14502.917	6	6893.280 ^A	-3	6.144	6.999	...	
		2-1	1.28	14294.223	14290.317	4	6995.833 ^A	-2	6.200	7.067	...	
		3-2	2.49	14209.486	14205.603	2	7037.552 ^A	-1	6.175	7.047	...	
		2-3	0.78	14160.585	14156.715	-16	7061.855 ^B	8	6.200	7.076	...	
		5-5	2.80	14124.938	14121.077	2	7079.677 ^A	-1	6.119	6.996	...	
		5-4	2.47	14085.157	14081.308	10	7099.672 ^A	-5	6.119	6.999	...	
2351	$n^7D^\circ - s^6D5d^7P$	3-4	2.45	14206.125	14202.243	0	7039.217 ^A	0	6.175	7.048	...	
		1-2	2.07	14008.311	14004.482	-2	7138.619 ^A	1	6.218	7.103	...	
		4-4	1.45	13725.438	13721.686	-4	7285.742 ^A	2	6.144	7.048	...	
2352	$n^7D^\circ - s^6D5d^7G$	1-1	1.76	13951.422	13947.609	-4	7167.728 ^D	2	6.218	7.107	...	II
		1-2	1.32	13702.305	13698.559	2	7298.042 ^A	-1	6.218	7.123	...	
		5-6	1.08	13293.320	13289.685	-2	7522.575 ^A	1	6.119	7.051	...	
		3-3	1.32	13234.330	13230.711	2	7556.106 ^B	-1	6.175	7.112	...	
		4-5	1.56	13213.378	13209.766	2	7568.087 ^A	-1	6.144	7.083	...	
2353	$n^7D^\circ - s^6D5d^5S$	2-2	1.15	14898.939	14894.868	-2	6711.887 ^D	1	6.200	7.032	...	II
		3-2	1.48	14461.004	14457.052	2	6915.149 ^A	-1	6.175	7.032	...	
2354	$n^7D^\circ - s^6D5d^5F$	2-3	1.00	14884.562	14880.495	-2	6718.370 ^A	1	6.200	7.033	...	
		2-1	2.14	14145.638	14141.772	2	7069.317 ^A	-1	6.200	7.077	...	
		4-3	0.90	13950.591	13946.778	2	7168.155 ^B	-1	6.144	7.033	...	
		4-5	1.20	13882.832	13879.037	4	7203.141 ^A	-2	6.144	7.037	...	
		3-4	2.14	13661.220	13657.486	2	7319.990 ^D	-1	6.175	7.082	...	
		4-4	1.45	13216.141	13212.527	17	7566.505 ^D	-10	6.144	7.082	...	
2355	$n^7D^\circ - ^4F6s^3F$	3-4	2.26	14279.580	14275.677	2	7003.007 ^A	-1	6.175	7.043	...	I
		4-4	2.33	13793.995	13790.225	2	7249.531 ^A	-1	6.144	7.043	...	
		5-4	0.70	13412.155	13408.488	2	7455.923 ^A	-1	6.119	7.043	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2356	$n^7D^o-s^6D5d^5P$	2-3	2.06	13982.849	13979.027	2	7151.618 ^A	-1	6.200	7.087	...	
		1-2	1.11	13792.125	13788.355	-2	7250.514 ^A	1	6.218	7.117	...	
		3-3	0.70	13596.407	13592.690	0	7354.884 ^B	0	6.175	7.087	...	
2357	$n^7D^o-s^6D5d^7S$	2-3	1.54	13459.421	13455.741	5	7429.740 ^A	-3	6.200	7.121	...	
		3-3	1.15	13100.986	13097.404	-7	7633.013 ^B	4	6.175	7.121	...	
2358	$n^7D^o-s^4D4d^5F$	3-4	0.90	12028.448	12025.157	-12	8313.624 ^B	8	6.175	7.206	...	
2359	$n^7D^o-i^5D$	4-4	1.58	12286.878	12283.516	-9	8138.764 ^D	6	6.144	7.153	...	II
2360	$n^7D^o-s^6D7s^7D$	4-5	1.66	11992.829	11989.547	0	8338.316 ^A	0	6.144	7.178	...	
		2-3	1.81	11803.887	11800.657	-1	8471.785 ^C	1	6.200	7.250	...	
		5-5	1.85	11703.148	11699.946	0	8544.709 ^A	0	6.119	7.178	...	
		2-1	1.18	11427.196	11424.068	4	8751.053 ^B	-3	6.200	7.285	...	
2361	$n^7D^o-g^5G$	4-5	1.58	11477.461	11474.320	-3	8712.728 ^A	2	6.144	7.224	...	
		4-4	2.18	11158.948	11155.893	12	8961.418 ^D	-10	6.144	7.255	...	II
2362	$n^7D^o-s^6D7s^5D$	3-4	1.56	11742.438	11739.224	7	8516.119 ^A	-5	6.175	7.231	...	
		3-3	1.74	11164.205	11161.149	-1	8957.198 ^D	1	6.175	7.285	...	I
2363	$y^3H^o-e^3H$	4-5	1.18	22027.766	22021.755	0	4539.725 ^B	0	6.165	6.728	...	
2364	$y^3H^o-s^6D5d^5D$	4-4	2.61	15430.739	15426.523	-24	6480.571 ^C	10	6.165	6.969	...	
		5-4	3.51	15144.330	15140.193	-16	6603.131 ^D	7	6.150	6.969	...	Ne
2365	$y^3H^o-59390^e$	4-3	1.91	10348.019	10345.184	7	9663.685 ^A	-7	6.165	7.363	...	
2366	$y^3H^o-61724^e$	4-4	1.57	8334.8315	8332.5414	-3.5	11997.843 ^B	5	6.165	7.653	...	
2367	$v^3G^o-e^5H$	5-6	1.79	25693.163	25686.154	0	3892.086 ^A	0	6.132	6.615	...	
2368	$v^3G^o-e^3G$	3-3	0.90	22080.938	22074.913	0	4528.793 ^B	0	6.180	6.742	...	
2369	$v^3G^o-e^3H$	3-4	1.32	21254.757	21248.957	-9	4704.829 ^A	2	6.180	6.764	...	
		4-4	1.20	20294.131	20288.592	-4	4927.533 ^D	1	6.153	6.764	...	I
2370	$v^3G^o-^4F6s^5F$	3-4	1.45	15002.346	14998.247	5	6665.624 ^A	-2	6.180	7.007	...	
2371	$v^3G^o-61724^e$	3-4	1.98	8421.5923	8419.2787	-0.7	11874.239 ^B	1	6.180	7.653	...	
		4-4	2.02	8266.5506	8264.2789	0.0	12096.944 ^A	0	6.153	7.653	...	
		5-4	1.04	8154.0017	8151.7604	5.3	12263.917 ^B	-8	6.132	7.653	...	
2372	$n^7F^o-g^7D$	4-5	2.49	28590.772	28582.974	8	3497.632 ^A	-1	6.237	6.670	...	
		5-5	2.00	26676.170	26668.894	0	3748.664 ^A	0	6.205	6.670	...	
		2-3	1.45	25980.679	25973.593	7	3849.014 ^B	-1	6.268	6.745	...	
		3-3	2.93	25177.805	25170.937	6	3971.752 ^A	-1	6.253	6.745	...	
		1-2	2.12	25098.694	25091.847	13	3984.271 ^A	-2	6.277	6.771	...	
		6-5	3.46	24735.852	24729.104	6	4042.715 ^A	-1	6.169	6.670	0.71 ^a	
		2-2	2.76	24655.148	24648.422	-12	4055.948 ^A	2	6.268	6.771	...	
		5-4	3.33	24554.652	24547.953	6	4072.548 ^A	-1	6.205	6.710	0.48 ^a	
		0-1	2.20	24462.360	24455.686	6	4087.913 ^A	-1	6.281	6.788	...	
		4-3	3.20	24381.020	24374.369	12	4101.551 ^A	-2	6.237	6.745	...	
		1-1	2.58	24270.908	24264.286	12	4120.159 ^A	-2	6.277	6.788	...	
		3-2	2.71	23930.973	23924.445	-11	4178.685 ^A	2	6.253	6.771	...	
		2-1	2.38	23855.895	23849.387	-6	4191.836 ^A	1	6.268	6.788	...	
2373	$n^7F^o-s^6D6s^5D$	5-4	1.85	22585.053	22578.891	0	4427.707 ^A	0	6.205	6.754	...	
		3-3	1.49	22564.179	22558.023	10	4431.803 ^B	-2	6.253	6.802	...	
		4-3	1.41	21922.113	21916.131	0	4561.604 ^B	0	6.237	6.802	...	
		3-2	1.43	21271.377	21265.573	-54	4701.153 ^D	12	6.253	6.836	...	II
2374	$n^7F^o-^4F6s^5F$	5-5	1.48	16497.044	16492.538	-3	6061.692 ^A	1	6.205	6.957	...	
		4-4	0.90	16095.307	16090.911	3	6212.991 ^B	-1	6.237	7.007	...	
		3-3	1.69	14129.017	14125.155	12	7077.633 ^D	-6	6.253	7.130	...	II
2375	$n^7F^o-s^6D5d^5D$	5-4	0.70	16246.011	16241.574	0	6155.357 ^B	0	6.205	6.969	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2376	$n^7F^o-s^6D5d^5G$	3-4	0.85	16025.330	16020.953	-5	6240.121 ^A	2	6.253	7.026	...	
		4-5	0.95	16006.640	16002.268	0	6247.407 ^A	0	6.237	7.011	...	
		5-6	2.14	15899.100	15894.757	5	6289.664 ^A	-2	6.205	6.985	...	
		4-4	1.15	15698.784	15694.496	-2	6369.920 ^A	1	6.237	7.026	...	
		5-5	1.23	15388.313	15384.109	2	6498.438 ^A	-1	6.205	7.011	...	
		6-6	1.11	15188.990	15184.840	0	6583.716 ^A	0	6.169	6.985	...	
		1-2	1.08	15136.827	15132.692	2	6606.404 ^D	-1	6.277	7.096	...	I
		4-3	1.26	14809.564	14805.518	-7	6752.393 ^A	3	6.237	7.074	...	
2377	$n^7F^o-s^6D5d^7F$	5-6	0.30	15684.365	15680.080	12	6375.776 ^B	-5	6.205	6.996	...	
		2-3	1.00	15317.419	15313.234	5	6528.515 ^A	-2	6.268	7.077	...	
		4-5	1.15	15291.670	15287.492	-5	6539.508 ^A	2	6.237	7.047	...	
		0-1	0.85	15257.725	15253.556	7	6554.057 ^A	-3	6.281	7.093	...	
		1-1	0.70	15183.015	15178.867	-2	6586.307 ^B	1	6.277	7.093	...	
		3-3	1.98	15034.761	15030.653	5	6651.253 ^A	-2	6.253	7.077	...	
		2-1	1.38	15019.570	15015.466	0	6657.980 ^A	0	6.268	7.093	...	
		6-6	2.76	14992.876	14988.780	-2	6669.834 ^A	1	6.169	6.996	...	
		4-3	1.18	14746.972	14742.942	4	6781.053 ^D	-2	6.237	7.077	...	I
		5-5	2.53	14726.375	14722.351	2	6790.537 ^A	-1	6.205	7.047	...	
		3-4	2.54	14546.948	14542.973	-2	6874.294 ^D	1	6.253	7.105	...	II
		4-4	0.85	14277.368	14273.466	4	7004.092 ^A	-2	6.237	7.105	...	
2378	$n^7F^o-s^6D5d^7D$	4-5	1.18	16316.421	16311.964	-3	6128.795 ^A	1	6.237	6.996	...	
		4-4	1.88	16263.367	16258.925	11	6148.788 ^A	-4	6.237	6.999	...	
		5-5	1.69	15674.413	15670.131	5	6379.824 ^A	-2	6.205	6.996	...	
		5-4	1.36	15625.427	15621.158	-7	6399.825 ^A	3	6.205	6.999	...	
		2-3	1.58	15350.122	15345.929	5	6514.606 ^A	-2	6.268	7.076	...	
		6-5	2.29	14983.801	14979.707	9	6673.874 ^A	-4	6.169	6.996	...	
2379	$n^7F^o-s^6D5d^7P$	2-3	1.62	16931.234	16926.610	26	5906.244 ^D	-9	6.268	7.000	...	Ne
		2-2	1.89	14846.760	14842.704	-4	6735.476 ^A	2	6.268	7.103	...	
		3-2	0.60	14581.074	14577.090	15	6858.205 ^B	-7	6.253	7.103	...	
2380	$n^7F^o-s^6D5d^7G$	1-1	0.95	14941.206	14937.124	22	6692.900 ^B	-10	6.277	7.107	...	
		3-4	2.17	14874.686	14870.621	-2	6722.831 ^A	1	6.253	7.086	...	
		2-1	1.04	14782.864	14778.824	-13	6764.589 ^A	6	6.268	7.107	...	
		6-7	3.13	14753.823	14749.792	0	6777.904 ^A	0	6.169	7.009	...	
		2-3	2.40	14693.777	14689.762	0	6805.602 ^A	0	6.268	7.112	...	
		5-6	3.03	14656.906	14652.901	-4	6822.722 ^A	2	6.205	7.051	...	
		1-2	2.32	14655.813	14651.808	-15	6823.231 ^A	7	6.277	7.123	...	
		4-5	2.89	14655.029	14651.024	2	6823.596 ^A	-1	6.237	7.083	...	
		4-4	2.11	14592.937	14588.949	2	6852.630 ^A	-1	6.237	7.086	...	
		2-2	1.67	14503.479	14499.516	6	6894.897 ^A	-3	6.268	7.123	...	
		3-3	1.90	14433.473	14429.529	0	6928.339 ^A	0	6.253	7.112	...	
		5-5	1.00	14135.024	14131.161	6	7074.625 ^B	-3	6.205	7.083	...	
2381	$n^7F^o-s^6D5d^5F$	3-3	1.04	15888.488	15884.148	0	6293.865 ^A	0	6.253	7.033	...	
		4-5	2.12	15483.111	15478.882	5	6458.650 ^A	-2	6.237	7.037	...	
		2-1	1.28	15332.532	15328.343	-2	6522.080 ^A	1	6.268	7.077	...	
		3-4	1.60	14942.717	14938.635	0	6692.223 ^A	0	6.253	7.082	...	
		5-5	0.90	14903.831	14899.759	-2	6709.684 ^B	1	6.205	7.037	...	
		4-4	2.23	14658.410	14654.405	4	6822.022 ^A	-2	6.237	7.082	...	
2382	$n^7F^o-4F6s^3F$	3-4	0.85	15685.691	15681.406	7	6375.237 ^B	-3	6.253	7.043	...	
		2-3	1.20	15008.117	15004.016	5	6663.061 ^A	-2	6.268	7.094	...	
		5-4	1.92	14801.504	14797.460	2	6756.070 ^A	-1	6.205	7.043	...	
2383	$n^7F^o-s^6D5d^5P$	3-3	2.26	14865.211	14861.149	0	6727.116 ^A	0	6.253	7.087	...	
		1-2	1.59	14758.633	14754.600	2	6775.695 ^A	-1	6.277	7.117	...	
		2-2	1.71	14604.140	14600.150	-6	6847.373 ^A	3	6.268	7.117	...	
		4-3	1.56	14583.815	14579.830	0	6856.916 ^A	0	6.237	7.087	...	
2384	$n^7F^o-s^6D5d^7S$	2-3	2.07	14529.597	14525.627	2	6882.503 ^A	-1	6.268	7.121	...	
2385	$n^7F^o-s^6D7s^7D$	4-4	2.47	12666.749	12663.285	5	7894.685 ^D	-3	6.237	7.215	...	Ne
		2-2	1.26	12303.087	12299.722	0	8128.041 ^A	0	6.268	7.276	...	
		1-1	1.48	12296.886	12293.522	3	8132.140 ^A	-2	6.277	7.285	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		6-5	1.84	12286.657	12283.296	-3	8138.910 ^A	2	6.169	7.178	...	
		5-4	1.64	12276.382	12273.024	-5	8145.722 ^A	3	6.205	7.215	...	
		4-3	1.28	12229.308	12225.963	7	8177.077 ^B	-5	6.237	7.250	...	
		3-2	1.48	12120.072	12116.756	3	8250.776 ^B	-2	6.253	7.276	...	
2386	$n^7F^o-s^6D7s^5D$	5-4	1.68	12093.081	12089.772	-6	8269.191 ^A	4	6.205	7.231	...	
2387	$n^7P^o-g^7D$	3-4	2.76	28601.100	28593.299	8	3496.369 ^A	-1	6.277	6.710	...	
		2-3	2.28	28542.038	28534.254	16	3503.604 ^A	-2	6.311	6.745	...	
		4-5	2.74	27661.637	27654.092	0	3615.115 ^D	0	6.222	6.670	...	II
		2-2	2.60	26950.262	26942.911	-22	3710.539 ^A	3	6.311	6.771	...	
		3-3	2.76	26480.224	26473.002	14	3776.403 ^A	-2	6.277	6.745	...	
		2-1	2.69	25998.153	25991.062	-14	3846.427 ^A	2	6.311	6.788	...	
		4-4	3.13	25387.154	25380.229	0	3939.000 ^A	0	6.222	6.710	-0.23 ^a	
		3-2	2.76	25104.579	25097.731	-6	3983.337 ^A	1	6.277	6.771	...	
		4-3	1.75	23702.085	23695.619	-17	4219.038 ^A	3	6.222	6.745	...	
2388	$n^7P^o-s^6D6s^5D$	4-4	1.87	23287.441	23281.088	-11	4294.160 ^A	2	6.222	6.754	...	
2389	$n^7P^o-^4F6s^5F$	3-4	1.38	16984.137	16979.499	-9	5887.847 ^D	3	6.277	7.007	...	I
		4-5	1.75	16868.663	16864.056	-28	5928.152 ^A	10	6.222	6.957	...	
		2-3	1.36	15129.778	15125.645	23	6609.482 ^B	-10	6.311	7.130	...	
2390	$n^7P^o-s^6D5d^5D$	3-4	0.30	17923.800	17918.906	13	5579.174 ^B	-4	6.277	6.969	...	
		3-3	1.38	17516.981	17512.199	21	5708.746 ^D	-7	6.277	6.985	...	I
		3-2	1.32	17090.823	17086.157	-12	5851.093 ^B	4	6.277	7.002	...	
		4-4	1.56	16606.333	16601.798	25	6021.799 ^A	-9	6.222	6.969	...	
2391	$n^7P^o-s^6D5d^5G$	2-3	0.48	16248.432	16243.994	5	6154.440 ^B	-2	6.311	7.074	...	
		4-5	1.67	15711.193	15706.901	2	6364.889 ^A	-1	6.222	7.011	...	
		3-3	1.72	15558.773	15554.522	2	6427.242 ^D	-1	6.277	7.074	...	I
2392	$n^7P^o-s^6D5d^7F$	2-3	1.45	16173.104	16168.686	5	6183.105 ^A	-2	6.311	7.077	...	
		2-1	1.30	15841.408	15837.081	0	6312.570 ^A	0	6.311	7.093	...	
		3-3	1.87	15489.692	15485.461	2	6455.906 ^A	-1	6.277	7.077	...	
		4-5	2.53	15021.806	15017.702	-2	6656.989 ^A	1	6.222	7.047	...	
		3-4	2.43	14972.424	14968.333	2	6678.945 ^A	-1	6.277	7.105	...	
2393	$n^7P^o-s^6D5d^7D$	3-2	2.05	16091.564	16087.169	3	6214.436 ^A	-1	6.277	7.047	...	
		4-5	2.10	16009.541	16005.168	3	6246.275 ^A	-1	6.222	6.996	...	
		4-4	2.29	15958.454	15954.095	5	6266.271 ^A	-2	6.222	6.999	...	
		3-3	1.26	15523.136	15518.896	0	6441.997 ^A	0	6.277	7.076	...	
2394	$n^7P^o-s^6D5d^7P$	2-3	1.95	17982.878	17977.968	-6	5560.845 ^A	2	6.311	7.000	...	
		3-3	1.73	17141.917	17137.237	-29	5833.653 ^A	10	6.277	7.000	...	
		3-4	1.66	16087.246	16082.853	-8	6216.104 ^A	3	6.277	7.048	...	
		4-3	1.30	15933.030	15928.678	3	6276.270 ^D	-1	6.222	7.000	...	Ne
		2-2	2.26	15649.295	15645.020	0	6390.064 ^A	0	6.311	7.103	...	
		4-4	2.34	15017.872	15013.768	-5	6658.733 ^A	2	6.222	7.048	...	
		3-2	1.26	15008.576	15004.476	16	6662.857 ^D	-7	6.277	7.103	...	II
2395	$n^7P^o-s^6D5d^7G$	2-1	1.15	15578.318	15574.063	-12	6419.178 ^A	5	6.311	7.107	...	
		2-3	2.08	15479.423	15475.194	7	6460.189 ^D	-3	6.311	7.112	...	I
		3-4	1.65	15319.840	15315.655	2	6527.483 ^A	-1	6.277	7.086	...	
		2-2	1.45	15268.371	15264.200	7	6549.487 ^A	-3	6.311	7.123	...	
		3-3	1.96	14852.240	14848.182	4	6732.991 ^A	-2	6.277	7.112	...	
		4-5	1.67	14406.977	14403.040	-4	6941.081 ^A	2	6.222	7.083	...	
2396	$n^7P^o-s^6D5d^5S$	3-2	1.64	16414.876	16410.393	3	6092.035 ^A	-1	6.277	7.032	...	
2397	$n^7P^o-s^6D5d^5F$	3-2	0.30	15813.171	15808.852	-5	6323.842 ^A	2	6.277	7.061	...	
		3-4	2.49	15392.015	15387.810	2	6496.875 ^A	-1	6.277	7.082	...	
		4-3	1.62	15287.831	15283.655	-7	6541.150 ^D	3	6.222	7.033	...	I
2398	$n^7P^o-^4F6s^3F$	3-4	1.58	16181.512	16177.093	5	6179.892 ^A	-2	6.277	7.043	...	
		2-3	0.90	15828.657	15824.334	-3	6317.655 ^A	1	6.311	7.094	...	
		2-2	1.38	14514.363	14510.396	17	6889.727 ^A	-8	6.311	7.165	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2399	$n^7P^o-s^6D5d^5P$	2-2	0.95	15379.963	15375.761	-14	6501.966 ^B	6	6.311	7.117	...	
		3-3	2.06	15309.790	15305.608	2	6531.768 ^A	-1	6.277	7.087	...	
2400	$n^7P^o-s^6D5d^7S$	2-3	2.53	15297.319	15293.140	2	6537.093 ^A	-1	6.311	7.121	...	
		3-3	0.90	14684.494	14680.482	-24	6809.904 ^B	11	6.277	7.121	...	
2401	$n^7P^o-s^6D7s^7D$	4-5	1.15	12967.968	12964.422	-2	7711.308 ^A	1	6.222	7.178	...	
		3-2	1.18	12413.986	12410.590	0	8055.430 ^A	0	6.277	7.276	...	
2402	$n^7P^o-s^6D7s^5D$	3-3	1.36	12293.933	12290.570	-15	8134.093 ^D	10	6.277	7.285	...	I
		4-4	1.04	12291.603	12288.241	6	8135.635 ^A	-4	6.222	7.231	...	
		2-1	1.63	12177.059	12173.728	3	8212.163 ^D	-2	6.311	7.329	...	Ne
		3-2	1.98	11894.297	11891.043	-1	8407.390 ^C	1	6.277	7.319	...	
		4-3	2.31	11659.482	11656.291	3	8576.710 ^A	-2	6.222	7.285	...	
2403	$e^7F-s^6D6p^7D^o$	3-4	1.81	18629.279	18624.194	3	5367.894 ^D	-1	6.341	7.007	...	I
		3-3	1.52	18497.243	18492.193	17	5406.211 ^D	-5	6.341	7.012	...	I
		1-2	1.20	17466.080	17461.311	0	5725.383 ^A	0	6.349	7.059	...	
		6-5	1.85	17306.421	17301.696	-3	5778.202 ^A	1	6.241	6.958	...	
		2-1	0.90	17143.569	17138.888	0	5833.091 ^D	0	6.364	7.087	...	I
2404	$e^7F-s^6D6p^7F^o$	4-4	1.94	17971.305	17966.399	10	5564.426 ^A	-3	6.347	7.037	...	
		3-4	1.28	17832.123	17827.255	-10	5607.857 ^B	3	6.341	7.037	...	
		5-5	0.30	17638.202	17633.386	16	5669.512 ^B	-5	6.302	7.005	...	
		2-2	1.15	17213.564	17208.864	-3	5809.372 ^A	1	6.364	7.084	...	
		3-2	2.20	16690.099	16685.541	-6	5991.576 ^A	2	6.341	7.084	...	
2405	$e^7F-s^6D6p^7P^o$	5-4	1.23	17518.783	17513.999	-9	5708.159 ^B	3	6.302	7.010	...	
		3-3	0.60	17422.923	17418.165	24	5739.565 ^B	-8	6.341	7.053	...	
2406	$e^7F-s^6D6p^5F^o$	4-5	1.57	18132.372	18127.422	39	5514.998 ^D	-12	6.347	7.031	...	II
		5-5	1.08	17024.643	17019.995	20	5873.838 ^B	-7	6.302	7.031	...	
2407	$e^7F-s^6D6p^5D^o$	5-4	1.23	16952.316	16947.686	-11	5898.899 ^A	4	6.302	7.034	...	
		4-3	1.53	16732.881	16728.311	-3	5976.257 ^D	1	6.347	7.088	...	I
		3-3	2.16	16612.173	16607.636	-3	6019.682 ^A	1	6.341	7.088	...	
		2-2	1.08	16434.653	16430.164	0	6084.704 ^D	0	6.364	7.118	...	II
		1-1	0.85	16146.869	16142.459	-18	6193.151 ^A	7	6.349	7.117	...	
		1-0	2.18	15618.367	15614.100	5	6402.718 ^A	-2	6.349	7.143	...	
2408	$e^7F-s^6D_{4.5}4f [1.5]^o$	2-2	2.17	18319.547	18314.546	-17	5458.650 ^D	5	6.364	7.041	...	Ne
	$e^7F-s^6D_{4.5}4f [1.5]^o$	1-1	1.52	17909.537	17904.648	22	5583.617 ^A	-7	6.349	7.041	...	
	$e^7F-s^6D_{4.5}4f [2.5]^o$	3-3	1.20	17766.994	17762.143	-6	5628.414 ^D	2	6.341	7.039	...	II
	$e^7F-s^6D_{4.5}4f [2.5]^o$	3-2	1.36	17759.812	17754.963	-6	5630.690 ^B	2	6.341	7.040	...	
	$e^7F-s^6D_{4.5}4f [1.5]^o$	3-2	1.26	17727.827	17722.987	3	5640.849 ^A	-1	6.341	7.041	...	
	$e^7F-s^6D_{4.5}4f [5.5]^o$	5-6	1.46	16904.850	16900.234	-3	5915.462 ^A	1	6.302	7.036	...	
	$e^7F-s^6D_{4.5}4f [5.5]^o$	5-5	1.18	16898.568	16893.954	-3	5917.661 ^A	1	6.302	7.036	...	
	$e^7F-s^6D_{4.5}4f [4.5]^o$	5-5	0.70	16888.237	16883.625	17	5921.281 ^D	-6	6.302	7.036	...	II
	$e^7F-s^6D_{4.5}4f [4.5]^o$	5-4	0.90	16887.652	16883.041	20	5921.486 ^A	-7	6.302	7.036	...	
	$e^7F-s^6D_{4.5}4f [3.5]^o$	5-4	0.85	16859.636	16855.032	3	5931.326 ^B	-1	6.302	7.038	...	
	$e^7F-s^6D_{4.5}4f [5.5]^o$	6-6	3.28	15608.489	15604.225	0	6406.770 ^D	0	6.241	7.036	...	Ne
	$e^7F-s^6D_{4.5}4f [5.5]^o$	6-5	1.90	15603.138	15598.876	2	6408.967 ^A	-1	6.241	7.036	...	
	$e^7F-s^6D_{4.5}4f [6.5]^o$	6-7	3.39	15595.758	15591.497	2	6412.000 ^D	-1	6.241	7.036	...	I
	$e^7F-s^6D_{4.5}4f [4.5]^o$	6-5	2.25	15594.310	15590.051	0	6412.595 ^A	0	6.241	7.036	...	
2409	$e^7F-s^6D6p^5P^o$	2-2	1.30	16376.958	16372.485	3	6106.140 ^A	-1	6.364	7.121	...	
		1-2	1.68	16053.436	16049.051	-5	6229.196 ^A	2	6.349	7.121	...	
2410	$e^7F-s^6D_{3.5}4f [2.5]^o$	2-3	1.28	17185.685	17180.993	-12	5818.796 ^A	4	6.364	7.085	...	
	$e^7F-s^6D_{3.5}4f [1.5]^o$	2-1	1.26	17178.553	17173.862	6	5821.212 ^D	-2	6.364	7.086	...	I
	$e^7F-s^6D_{3.5}4f [1.5]^o$	1-1	0.60	16822.934	16818.340	3	5944.266 ^D	-1	6.349	7.086	...	I
	$e^7F-s^6D_{3.5}4f [1.5]^o$	1-2	1.28	16817.273	16812.681	8	5946.267 ^A	-3	6.349	7.086	...	
	$e^7F-s^6D_{3.5}4f [0.5]^o$	1-1	1.11	16815.212	16810.620	3	5946.996 ^A	-1	6.349	7.086	...	
	$e^7F-s^6D_{3.5}4f [0.5]^o$	1-0	0.85	16812.201	16807.610	-3	5948.061 ^A	1	6.349	7.086	...	
	$e^7F-s^6D_{3.5}4f [4.5]^o$	4-5	1.59	16796.811	16792.224	-3	5953.511 ^A	1	6.347	7.085	...	
	$e^7F-s^6D_{3.5}4f [4.5]^o$	4-4	0.70	16792.890	16788.304	-11	5954.901 ^A	4	6.347	7.085	...	
	$e^7F-s^6D_{3.5}4f [5.5]^o$	4-5	1.62	16791.170	16786.585	-3	5955.511 ^A	1	6.347	7.085	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
	$e^7F-s^6D_{3.5}4f$ [3.5] ^o	4-4	1.48	16787.427	16782.842	-3	5956.839 ^A	1	6.347	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [3.5] ^o	4-3	0.78	16785.767	16781.183	0	5957.428 ^A	0	6.347	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [4.5] ^o	3-4	1.57	16671.343	16666.790	14	5998.317 ^A	-5	6.341	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [3.5] ^o	3-4	2.68	16665.927	16661.376	-8	6000.266 ^A	3	6.341	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [3.5] ^o	3-3	1.96	16664.297	16659.746	-3	6000.853 ^A	1	6.341	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [2.5] ^o	3-2	2.20	16656.761	16652.212	-8	6003.568 ^A	3	6.341	7.086	...	
	$e^7F-s^6D_{3.5}4f$ [4.5] ^o	5-5	2.85	15841.970	15837.643	-5	6312.346 ^D	2	6.302	7.085	...	II
	$e^7F-s^6D_{3.5}4f$ [5.5] ^o	5-6	3.24	15839.491	15835.164	-3	6313.334 ^A	1	6.302	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [4.5] ^o	5-4	1.92	15838.490	15834.164	-3	6313.733 ^A	1	6.302	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [5.5] ^o	5-5	1.86	15836.950	15832.624	-5	6314.347 ^A	2	6.302	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [3.5] ^o	5-4	1.59	15833.620	15829.295	-5	6315.675 ^A	2	6.302	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [6.5] ^o	5-6	2.66	15823.460	15819.138	3	6319.730 ^A	-1	6.302	7.086	...	
	$e^7F-s^6D_{3.5}4f$ [4.5] ^o	6-5	1.15	14697.999	14693.983	13	6803.647 ^B	-6	6.241	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [5.5] ^o	6-6	1.57	14695.854	14691.839	2	6804.640 ^A	-1	6.241	7.085	...	
	$e^7F-s^6D_{3.5}4f$ [6.5] ^o	6-7	2.42	14683.856	14679.844	9	6810.200 ^A	-4	6.241	7.086	...	
2411	$e^7F-s^6D_{2.5}4f$ [0.5] ^o	2-1	1.56	16419.250	16414.766	8	6090.412 ^D	-3	6.364	7.119	...	II
	$e^7F-s^6D_{2.5}4f$ [1.5] ^o	2-1	2.05	16405.876	16401.395	16	6095.377 ^A	-6	6.364	7.120	...	
	$e^7F-s^6D_{2.5}4f$ [1.5] ^o	2-2	2.14	16402.794	16398.315	0	6096.522 ^A	0	6.364	7.120	...	
	$e^7F-s^6D_{2.5}4f$ [2.5] ^o	2-3	2.26	16388.620	16384.144	-3	6101.795 ^A	1	6.364	7.121	...	
	$e^7F-s^6D_{2.5}4f$ [3.5] ^o	2-3	2.27	16370.818	16366.347	5	6108.430 ^A	-2	6.364	7.121	...	
	$e^7F-s^6D_{2.5}4f$ [0.5] ^o	1-1	1.85	16094.071	16089.676	5	6213.468 ^D	-2	6.349	7.119	...	I
	$e^7F-s^6D_{2.5}4f$ [1.5] ^o	1-2	2.03	16078.261	16073.869	-3	6219.578 ^A	1	6.349	7.120	...	
	$e^7F-s^6D_{2.5}4f$ [2.5] ^o	1-2	1.18	16069.120	16064.731	0	6223.116 ^A	0	6.349	7.120	...	
	$e^7F-s^6D_{2.5}4f$ [5.5] ^o	4-5	2.04	16033.801	16029.422	-5	6236.824 ^A	2	6.347	7.120	...	
	$e^7F-s^6D_{2.5}4f$ [2.5] ^o	4-3	1.89	16024.164	16019.787	-3	6240.575 ^A	1	6.347	7.121	...	
	$e^7F-s^6D_{2.5}4f$ [3.5] ^o	4-4	2.55	16011.456	16007.083	-3	6245.528 ^A	1	6.347	7.121	...	
	$e^7F-s^6D_{2.5}4f$ [4.5] ^o	4-5	3.13	16011.130	16006.757	-3	6245.655 ^A	1	6.347	7.121	...	
	$e^7F-s^6D_{2.5}4f$ [2.5] ^o	3-3	1.80	15913.428	15909.081	-8	6284.001 ^D	3	6.341	7.121	...	II
	$e^7F-s^6D_{2.5}4f$ [3.5] ^o	3-4	1.87	15900.895	15896.552	-5	6288.954 ^A	2	6.341	7.121	...	
	$e^7F-s^6D_{2.5}4f$ [4.5] ^o	3-4	2.66	15897.305	15892.963	-3	6290.374 ^A	1	6.341	7.121	...	
	$e^7F-s^6D_{2.5}4f$ [3.5] ^o	3-3	1.85	15896.633	15892.291	-8	6290.640 ^A	3	6.341	7.121	...	
	$e^7F-s^6D_{2.5}4f$ [5.5] ^o	5-6	2.13	15163.864	15159.721	-2	6594.625 ^A	1	6.302	7.120	...	
	$e^7F-s^6D_{2.5}4f$ [4.5] ^o	5-5	1.46	15141.216	15137.080	-2	6604.489 ^A	1	6.302	7.121	...	
2412	$e^7F-s^6D_{1.5}4f$ [2.5] ^o	2-2	1.96	15868.985	15864.651	0	6301.600 ^A	0	6.364	7.145	...	
	$e^7F-s^6D_{1.5}4f$ [3.5] ^o	2-3	2.26	15844.523	15840.195	0	6311.329 ^A	0	6.364	7.147	...	
	$e^7F-s^6D_{1.5}4f$ [2.5] ^o	1-2	2.06	15565.038	15560.786	-2	6424.655 ^A	1	6.349	7.145	...	
	$e^7F-s^6D_{1.5}4f$ [4.5] ^o	4-5	2.35	15555.684	15551.435	0	6428.518 ^A	0	6.347	7.144	...	
	$e^7F-s^6D_{1.5}4f$ [4.5] ^o	4-4	0.00	15552.926	15548.678	-10	6429.658 ^B	4	6.347	7.144	...	
	$e^7F-s^6D_{1.5}4f$ [3.5] ^o	4-4	1.51	15506.412	15502.176	0	6448.945 ^A	0	6.347	7.146	...	
	$e^7F-s^6D_{1.5}4f$ [3.5] ^o	3-3	3.22	15399.930	15395.723	-7	6493.536 ^D	3	6.341	7.147	...	I
	$e^7F-s^6D_{1.5}4f$ [4.5] ^o	6-5	0.90	13738.781	13735.025	-8	7278.666 ^B	4	6.241	7.144	...	
2413	$e^7F-s^6D_{0.5}4f$ [2.5] ^o	2-3	3.39	15595.758	15591.497	-5	6412.000 ^D	2	6.364	7.159	...	I
	$e^7F-s^6D_{0.5}4f$ [2.5] ^o	2-2	0.90	15594.987	15590.726	-2	6412.317 ^A	1	6.364	7.159	...	
	$e^7F-s^6D_{0.5}4f$ [2.5] ^o	1-2	1.57	15301.347	15297.167	-2	6535.372 ^A	1	6.349	7.159	...	
	$e^7F-s^6D_{0.5}4f$ [2.5] ^o	3-3	1.58	15164.846	15160.703	11	6594.198 ^B	-5	6.341	7.159	...	
	$e^7F-s^6D_{0.5}4f$ [3.5] ^o	3-4	2.18	15164.644	15160.501	-7	6594.286 ^A	3	6.341	7.159	...	
2414	$e^7F-s^6D_{4.5}5f$ [5.5] ^o	6-6	1.58	11195.168	11192.103	9	8932.425 ^B	-7	6.241	7.349	...	
	$e^7F-s^6D_{4.5}5f$ [6.5] ^o	6-7	2.05	11191.523	11188.459	-8	8935.334 ^A	6	6.241	7.349	...	
2415	$f^7D-Dsp3^5D^o$	2-3	2.07	34567.640	34558.214	0	2892.879 ^B	0	6.323	6.681	...	
2416	$f^7D-s^6D6p^7D^o$	3-4	1.79	17683.722	17678.894	25	5654.918 ^B	-8	6.306	7.007	...	
		3-3	1.48	17564.672	17559.876	9	5693.246 ^A	-3	6.306	7.012	...	
		4-4	1.38	17516.981	17512.199	-3	5708.746 ^D	1	6.299	7.007	...	I
		5-5	1.76	17414.248	17409.493	-9	5742.424 ^A	3	6.246	6.958	...	
2417	$f^7D-s^6D6p^7F^o$	5-6	0.60	16997.928	16993.286	9	5883.070 ^B	-3	6.246	6.975	...	
		1-2	1.59	16414.116	16409.633	-3	6092.317 ^A	1	6.329	7.084	...	
		1-1	1.51	16323.010	16318.552	0	6126.321 ^A	0	6.329	7.088	...	
		2-2	2.18	16281.932	16277.485	0	6141.777 ^A	0	6.323	7.084	...	
		3-2	1.46	15927.099	15922.749	0	6278.607 ^A	0	6.306	7.084	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2418	$f^7D-s^6D6p^7P^o$	4-4	1.46	17441.037	17436.274	-18	5733.604 ^B	6	6.299	7.010	...	
		2-3	0.85	16978.583	16973.946	12	5889.773 ^B	-4	6.323	7.053	...	
		2-2	0.78	16151.010	16146.599	5	6191.563 ^B	-2	6.323	7.090	...	
2419	$f^7D-s^6D6p^5F^o$	2-3	2.04	15759.974	15755.669	-15	6345.188 ^A	6	6.323	7.109	...	
2420	$f^7D-s^6D6p^5D^o$	4-4	1.00	16879.511	16874.902	-14	5924.342 ^A	5	6.299	7.034	...	
		2-3	2.01	16207.762	16203.336	3	6169.883 ^A	-1	6.323	7.088	...	
		3-3	1.28	15856.125	15851.794	8	6306.711 ^A	-3	6.306	7.088	...	
		1-2	1.49	15704.388	15700.098	2	6367.647 ^A	-1	6.329	7.118	...	
		2-2	1.74	15583.343	15579.086	5	6417.108 ^A	-2	6.323	7.118	...	
		3-2	1.59	15257.995	15253.826	-5	6553.941 ^A	2	6.306	7.118	...	
		1-0	1.46	15237.835	15233.672	-5	6562.612 ^B	2	6.329	7.143	...	
2421	$f^7D-s^6D_{4.5}4f [3.5]^o$	2-3	1.70	17338.817	17334.083	3	5767.406 ^A	-1	6.323	7.038	...	
		2-2	2.04	17298.374	17293.651	6	5780.890 ^A	-2	6.323	7.040	...	
		2-2	1.38	17268.025	17263.310	6	5791.050 ^A	-2	6.323	7.041	...	
		2-1	2.17	17262.284	17257.571	0	5792.976 ^A	0	6.323	7.041	...	
		3-4	1.04	16968.942	16964.309	-14	5893.119 ^D	5	6.306	7.036	...	I
		4-5	1.81	16815.970	16811.377	-3	5946.728 ^A	1	6.299	7.036	...	
		4-4	1.84	16787.624	16783.039	-3	5956.769 ^A	1	6.299	7.038	...	
		4-3	1.57	16752.484	16747.909	0	5969.264 ^A	0	6.299	7.039	...	
		5-6	3.11	15696.145	15691.857	0	6370.991 ^A	0	6.246	7.036	...	
		5-5	2.78	15690.731	15686.445	0	6373.189 ^A	0	6.246	7.036	...	
		5-5	2.86	15681.807	15677.523	0	6376.816 ^A	0	6.246	7.036	...	
		5-4	2.06	15681.300	15677.017	2	6377.022 ^A	-1	6.246	7.036	...	
		5-6	2.16	15677.443	15673.161	5	6378.591 ^D	-2	6.246	7.037	...	II
		5-4	2.52	15657.151	15652.874	-2	6386.858 ^A	1	6.246	7.038	...	
2422	$f^7D-s^6D6p^5P^o$	1-2	1.63	15651.686	15647.410	-5	6389.088 ^A	2	6.329	7.121	...	
		2-2	1.75	15531.454	15527.211	0	6438.547 ^A	0	6.323	7.121	...	
		3-2	1.46	15208.255	15204.100	2	6575.376 ^A	-1	6.306	7.121	...	
2423	$f^7D-s^6D_{3.5}4f [2.5]^o$	1-2	2.30	16381.867	16377.393	-11	6104.310 ^A	4	6.329	7.086	...	
		2-3	2.22	16256.995	16252.555	0	6151.198 ^D	0	6.323	7.085	...	Ne
		2-1	1.30	16250.597	16246.158	0	6153.620 ^A	0	6.323	7.086	...	
		2-2	2.00	16250.201	16245.762	-3	6153.770 ^A	1	6.323	7.086	...	
		2-2	1.81	16245.309	16240.872	0	6155.623 ^A	0	6.323	7.086	...	
		3-3	2.26	15903.603	15899.259	3	6287.883 ^A	-1	6.306	7.085	...	
		3-3	1.23	15903.242	15898.898	3	6288.026 ^A	-1	6.306	7.085	...	
		3-2	2.99	15896.755	15892.412	10	6290.592 ^A	-4	6.306	7.086	...	
		3-2	2.47	15892.058	15887.717	3	6292.451 ^A	-1	6.306	7.086	...	
		4-5	2.95	15778.380	15774.070	-2	6337.786 ^A	1	6.299	7.085	...	
		4-4	2.91	15774.928	15770.619	-2	6339.173 ^A	1	6.299	7.085	...	
		4-5	2.28	15773.405	15769.097	0	6339.785 ^A	0	6.299	7.085	...	
		4-4	1.04	15770.092	15765.784	-5	6341.117 ^A	2	6.299	7.085	...	
		4-3	2.40	15768.635	15764.327	2	6341.703 ^A	-1	6.299	7.085	...	
		5-6	1.23	14773.529	14769.493	0	6768.863 ^A	0	6.246	7.085	...	
		5-6	1.11	14759.576	14755.543	0	6775.262 ^A	0	6.246	7.086	...	
2424	$f^7D-s^6D_{2.5}4f [0.5]^o$	1-1	2.39	15690.310	15686.024	2	6373.360 ^A	-1	6.329	7.119	...	
		1-1	0.78	15678.089	15673.807	2	6378.328 ^A	-1	6.329	7.120	...	
		1-2	2.13	15675.280	15670.999	-7	6379.471 ^A	3	6.329	7.120	...	
		1-2	1.60	15666.602	15662.322	5	6383.005 ^A	-2	6.329	7.120	...	
		2-1	1.75	15569.485	15565.231	7	6422.820 ^A	-3	6.323	7.119	...	
		2-2	2.34	15554.707	15550.458	17	6428.922 ^D	-7	6.323	7.120	...	I
		2-3	2.31	15541.942	15537.697	-2	6434.202 ^A	1	6.323	7.121	...	
		2-3	1.00	15525.932	15521.691	7	6440.837 ^A	-3	6.323	7.121	...	
		3-2	1.00	15230.513	15226.352	-19	6565.767 ^B	8	6.306	7.120	...	
		3-3	1.45	15218.314	15214.156	2	6571.030 ^A	-1	6.306	7.121	...	
		3-3	1.49	15202.961	15198.807	7	6577.666 ^A	-3	6.306	7.121	...	
		4-5	1.62	15103.232	15099.106	0	6621.099 ^A	0	6.299	7.120	...	
		5-6	1.56	14184.087	14180.210	2	7050.154 ^D	-1	6.246	7.120	...	II
		5-5	0.70	14164.267	14160.396	-2	7060.019 ^B	1	6.246	7.121	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2425	$f^7D-t^3F^o$	1-2	0.85	15013.588	15009.486	-2	6660.633 ^A	1	6.329	7.155	...	
2426	$f^7D-s^6D_{1.5}4f [2.5]^o$	1-2	1.91	15187.071	15182.922	-5	6584.548 ^A	2	6.329	7.145	...	
	$f^7D-s^6D_{1.5}4f [2.5]^o$	2-3	1.49	15077.389	15073.269	2	6632.448 ^D	-1	6.323	7.145	...	II
	$f^7D-s^6D_{1.5}4f [2.5]^o$	3-3	1.67	14772.615	14768.579	-11	6769.282 ^D	5	6.306	7.145	...	II
	$f^7D-s^6D_{1.5}4f [4.5]^o$	4-5	1.91	14678.265	14674.254	-2	6812.794 ^D	1	6.299	7.144	...	II
	$f^7D-s^6D_{1.5}4f [3.5]^o$	4-4	0.78	14634.391	14630.392	2	6833.219 ^B	-1	6.299	7.146	...	
	$f^7D-s^6D_{1.5}4f [4.5]^o$	5-4	0.48	13804.472	13800.699	-21	7244.029 ^D	11	6.246	7.144	...	I
2427	$f^7D-s^6D_{0.5}4f [2.5]^o$	1-2	1.56	14935.935	14931.854	0	6695.262 ^D	0	6.329	7.159	...	I
	$f^7D-s^6D_{0.5}4f [2.5]^o$	2-3	1.58	14827.100	14823.049	-2	6744.407 ^A	1	6.323	7.159	...	
	$f^7D-s^6D_{0.5}4f [2.5]^o$	2-2	0.78	14826.410	14822.359	7	6744.721 ^B	-3	6.323	7.159	...	
	$f^7D-s^6D_{0.5}4f [3.5]^o$	2-3	1.40	14822.968	14818.918	-2	6746.287 ^A	1	6.323	7.159	...	
	$f^7D-s^6D_{0.5}4f [3.5]^o$	3-3	1.72	14528.310	14524.340	2	6883.113 ^A	-1	6.306	7.159	...	
2428	$f^7D-s^6D_{4.5}5f [5.5]^o$	5-6	1.81	11240.179	11237.102	-4	8896.655 ^B	3	6.246	7.349	...	
2429	$f^7D-s^6D_{3.5}5f [5.5]^o$	4-5	1.81	11291.820	11288.729	-4	8855.968 ^B	3	6.299	7.397	...	
2430	$f^5D-Gsp3^3F^o$	3-3	2.54	35421.865	35412.207	13	2823.115 ^C	-1	6.265	6.615	...	
2431	$f^5D-Dsp3^5D^o$	4-3	2.08	28831.812	28823.949	-25	3468.391 ^B	3	6.251	6.681	...	
2432	$f^5D-Gsp3^1F^o$	4-3	1.28	17622.086	17617.274	3	5674.697 ^A	-1	6.251	6.955	...	
2433	$f^5D-s^6D6p^7D^o$	4-5	1.00	17552.497	17547.704	-9	5697.195 ^B	3	6.251	6.958	...	
		2-3	1.23	17075.211	17070.548	6	5856.443 ^D	-2	6.286	7.012	...	I
		3-4	0.70	16715.872	16711.307	20	5982.338 ^B	-7	6.265	7.007	...	
		4-4	1.00	16410.633	16406.151	-11	6093.610 ^D	4	6.251	7.007	...	I
		2-1	1.40	15466.643	15462.418	-10	6465.527 ^A	4	6.286	7.087	...	
2434	$f^5D-s^6D6p^7F^o$	1-0	0.70	16021.787	16017.410	0	6241.501 ^B	0	6.308	7.082	...	
		2-2	2.12	15523.606	15519.365	0	6441.802 ^A	0	6.286	7.084	...	
		3-2	1.52	15137.703	15133.567	7	6606.022 ^A	-3	6.265	7.084	...	
2435	$f^5D-s^6D6p^7P^o$	1-2	1.00	15847.606	15843.278	20	6310.101 ^B	-8	6.308	7.090	...	
2436	$f^5D-u^3F^o$	2-3	1.08	16434.653	16430.164	-8	6084.704 ^D	3	6.286	7.040	...	II
		3-3	0.30	16002.760	15998.389	3	6248.922 ^A	-1	6.265	7.040	...	
2437	$f^5D-s^6D6p^5F^o$	4-5	1.28	15913.068	15908.722	5	6284.143 ^A	-2	6.251	7.031	...	
		4-4	1.38	15057.492	15053.378	-9	6641.212 ^D	4	6.251	7.075	...	I
		1-1	1.11	15000.645	14996.546	-7	6666.380 ^A	3	6.308	7.135	...	
		3-2	0.85	14208.357	14204.474	8	7038.111 ^B	-4	6.265	7.138	...	
2438	$f^5D-s^6D6p^5D^o$	0-1	1.82	15575.996	15571.741	-10	6420.135 ^A	4	6.321	7.117	...	
		2-3	1.58	15456.175	15451.952	10	6469.906 ^D	-4	6.286	7.088	...	I
		1-1	1.26	15334.981	15330.792	7	6521.038 ^D	-3	6.308	7.117	...	II
		1-2	1.20	15300.680	15296.500	-9	6535.657 ^A	4	6.308	7.118	...	
2439	$f^5D-s^6D_{4.5}4f [3.5]^o$	2-3	2.14	16481.437	16476.936	0	6067.432 ^A	0	6.286	7.038	...	
	$f^5D-s^6D_{4.5}4f [2.5]^o$	2-3	2.10	16451.034	16446.541	-11	6078.645 ^D	4	6.286	7.039	...	II
	$f^5D-s^6D_{4.5}4f [2.5]^o$	2-2	2.45	16444.893	16440.402	3	6080.915 ^A	-1	6.286	7.040	...	
	$f^5D-s^6D_{4.5}4f [1.5]^o$	2-2	1.81	16417.463	16412.979	8	6091.075 ^A	-3	6.286	7.041	...	
	$f^5D-s^6D_{4.5}4f [1.5]^o$	2-1	2.57	16412.273	16407.791	0	6093.001 ^A	0	6.286	7.041	...	
	$f^5D-s^6D_{4.5}4f [4.5]^o$	3-4	2.68	16075.792	16071.402	0	6220.533 ^A	0	6.265	7.036	...	
	$f^5D-s^6D_{4.5}4f [3.5]^o$	3-3	2.81	16047.098	16042.715	-3	6231.656 ^A	1	6.265	7.038	...	
	$f^5D-s^6D_{4.5}4f [2.5]^o$	3-3	1.69	16018.286	16013.911	-3	6242.865 ^A	1	6.265	7.039	...	
	$f^5D-s^6D_{4.5}4f [2.5]^o$	3-2	2.68	16012.453	16008.080	0	6245.139 ^A	0	6.265	7.040	...	
	$f^5D-s^6D_{4.5}4f [1.5]^o$	3-2	2.14	15986.446	15982.079	3	6255.299 ^A	-1	6.265	7.041	...	
	$f^5D-s^6D_{4.5}4f [5.5]^o$	4-5	2.97	15802.881	15798.564	0	6327.960 ^A	0	6.251	7.036	...	
	$f^5D-s^6D_{4.5}4f [4.5]^o$	4-5	0.90	15793.828	15789.514	0	6331.587 ^A	0	6.251	7.036	...	
	$f^5D-s^6D_{4.5}4f [4.5]^o$	4-4	2.95	15793.314	15789.000	2	6331.793 ^A	-1	6.251	7.036	...	
	$f^5D-s^6D_{4.5}4f [3.5]^o$	4-4	2.04	15768.819	15764.511	-2	6341.629 ^A	1	6.251	7.038	...	
	$f^5D-s^6D_{4.5}4f [3.5]^o$	4-3	2.58	15765.622	15761.315	0	6342.915 ^A	0	6.251	7.038	...	
	$f^5D-s^6D_{4.5}4f [2.5]^o$	4-3	2.07	15737.810	15733.511	-2	6354.124 ^A	1	6.251	7.039	...	
2440	$f^5D-s^6D6p^5P^o$	4-3	1.62	15508.170	15503.933	-19	6448.214 ^A	8	6.251	7.051	...	
		1-2	1.93	15250.665	15246.498	0	6557.091 ^A	0	6.308	7.121	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(I) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2441	$f^5D-s^6D_{3.5}4f$ [0.5]°	0-1	1.28	16196.994	16192.570	-5	6173.985 ^A	2	6.321	7.086	...	
	$f^5D-s^6D_{3.5}4f$ [1.5]°	1-1	1.86	15943.465	15939.110	3	6272.162 ^A	-1	6.308	7.086	...	
	$f^5D-s^6D_{3.5}4f$ [2.5]°	1-2	1.73	15943.087	15938.732	0	6272.311 ^A	0	6.308	7.086	...	
	$f^5D-s^6D_{3.5}4f$ [1.5]°	1-2	2.31	15938.375	15934.022	0	6274.165 ^A	0	6.308	7.086	...	
	$f^5D-s^6D_{3.5}4f$ [0.5]°	1-0	2.16	15933.830	15929.477	3	6275.955 ^A	-1	6.308	7.086	...	
	$f^5D-s^6D_{3.5}4f$ [3.5]°	2-3	1.20	15501.278	15497.043	0	6451.081 ^A	0	6.286	7.085	...	
	$f^5D-s^6D_{3.5}4f$ [2.5]°	2-3	2.38	15500.934	15496.699	0	6451.224 ^D	0	6.286	7.085	...	II
	$f^5D-s^6D_{3.5}4f$ [1.5]°	2-1	2.12	15495.119	15490.886	0	6453.645 ^D	0	6.286	7.086	...	II
	$f^5D-s^6D_{3.5}4f$ [4.5]°	3-4	1.88	15122.249	15118.117	-5	6612.773 ^A	2	6.265	7.085	...	
	$f^5D-s^6D_{3.5}4f$ [3.5]°	3-4	0.70	15117.809	15113.679	-2	6614.715 ^A	1	6.265	7.085	...	
	$f^5D-s^6D_{3.5}4f$ [3.5]°	3-3	1.83	15116.463	15112.333	0	6615.304 ^A	0	6.265	7.085	...	
	$f^5D-s^6D_{3.5}4f$ [2.5]°	3-3	1.36	15116.134	15112.004	-2	6615.448 ^A	1	6.265	7.085	...	
	$f^5D-s^6D_{3.5}4f$ [2.5]°	3-2	2.22	15110.259	15106.131	-9	6618.020 ^A	4	6.265	7.086	...	
	$f^5D-s^6D_{3.5}4f$ [4.5]°	4-5	1.64	14875.099	14871.035	4	6722.644 ^D	-2	6.251	7.085	...	II
	$f^5D-s^6D_{3.5}4f$ [5.5]°	4-5	2.04	14870.671	14866.608	-2	6724.646 ^D	1	6.251	7.085	...	II
	$f^5D-s^6D_{3.5}4f$ [3.5]°	4-4	1.81	14867.730	14863.668	-2	6725.976 ^A	1	6.251	7.085	...	
2442	$f^5D-s^6D_{2.5}4f$ [0.5]°	0-1	1.64	15526.855	15522.614	2	6440.454 ^A	-1	6.321	7.119	...	
	$f^5D-s^6D_{2.5}4f$ [1.5]°	1-2	1.28	15273.067	15268.895	0	6547.473 ^D	0	6.308	7.120	...	II
	$f^5D-s^6D_{2.5}4f$ [2.5]°	1-2	2.28	15264.805	15260.635	-12	6551.017 ^D	5	6.308	7.120	...	Ne
	$f^5D-s^6D_{2.5}4f$ [2.5]°	2-3	0.60	14849.523	14845.465	7	6734.223 ^B	-3	6.286	7.121	...	
	$f^5D-s^6D_{2.5}4f$ [4.5]°	3-4	1.76	14482.628	14478.670	0	6904.824 ^A	0	6.265	7.121	...	
	$f^5D-s^6D_{2.5}4f$ [3.5]°	3-3	1.08	14482.081	14478.123	4	6905.085 ^A	-2	6.265	7.121	...	
	$f^5D-s^6D_{2.5}4f$ [5.5]°	4-5	0.90	14273.559	14269.658	-4	7005.961 ^A	2	6.251	7.120	...	
2443	$f^5D-s^6D_{1.5}4f$ [2.5]°	1-2	1.75	14809.218	14805.171	0	6752.551 ^A	0	6.308	7.145	...	
	$f^5D-s^6D_{1.5}4f$ [3.5]°	2-3	1.48	14401.415	14397.479	0	6943.762 ^A	0	6.286	7.147	...	
	$f^5D-s^6D_{1.5}4f$ [4.5]°	3-4	1.30	14109.287	14105.431	0	7087.530 ^A	0	6.265	7.144	...	
	$f^5D-s^6D_{1.5}4f$ [4.5]°	4-5	1.11	13893.421	13889.624	6	7197.651 ^A	-3	6.251	7.144	...	
2444	$f^5D-s^6D_{0.5}4f$ [3.5]°	2-3	1.67	14191.825	14187.946	0	7046.310 ^A	0	6.286	7.159	...	
	$f^5D-s^6D_{0.5}4f$ [2.5]°	3-3	0.48	13872.236	13868.444	21	7208.643 ^B	-11	6.265	7.159	...	
	$f^5D-s^6D_{0.5}4f$ [3.5]°	3-4	1.20	13872.061	13868.269	0	7208.734 ^A	0	6.265	7.159	...	
	$f^5D-s^6D_{0.5}4f$ [3.5]°	4-4	2.14	13661.220	13657.486	7	7319.990 ^D	-4	6.251	7.159	...	I
2445	$e^7P-s^6D6p^7D^0$	4-5	1.23	17714.675	17709.839	13	5645.037 ^A	-4	6.258	6.958	...	
		3-3	0.90	16824.276	16819.682	31	5943.792 ^B	-11	6.275	7.012	...	
		4-3	2.22	16447.955	16443.463	-16	6079.783 ^A	6	6.258	7.012	...	
2446	$e^7P-s^6D6p^7F^0$	4-5	1.48	16590.139	16585.608	-25	6027.677 ^A	9	6.258	7.005	...	
		2-2	1.65	15925.864	15921.514	5	6279.094 ^A	-2	6.306	7.084	...	
		3-2	1.00	15315.908	15311.724	5	6529.159 ^A	-2	6.275	7.084	...	
2447	$e^7P-s^6D6p^7P^0$	2-3	0.95	16591.741	16587.210	0	6027.095 ^A	0	6.306	7.053	...	
		3-3	0.70	15930.771	15926.419	3	6277.160 ^A	-1	6.275	7.053	...	
2448	$e^7P-u^3F^0$	3-3	1.56	16202.048	16197.623	0	6172.059 ^A	0	6.275	7.040	...	
		4-3	1.40	15852.809	15848.479	5	6308.030 ^A	-2	6.258	7.040	...	
2449	$e^7P-s^6D6p^5F^0$	4-5	1.41	16046.238	16041.856	10	6231.990 ^A	-4	6.258	7.031	...	
		3-2	1.54	14365.240	14361.314	4	6961.248 ^A	-2	6.275	7.138	...	
2450	$e^7P-s^6D6p^5D^0$	2-3	1.08	15854.901	15850.570	10	6307.198 ^B	-4	6.306	7.088	...	
2451	$e^7P-s^6D_{4.5}4f$ [3.5]°	2-3	1.28	16935.592	16930.967	0	5904.724 ^A	0	6.306	7.038	...	
	$e^7P-s^6D_{4.5}4f$ [2.5]°	2-3	1.86	16903.498	16898.882	-3	5915.935 ^A	1	6.306	7.039	...	
	$e^7P-s^6D_{4.5}4f$ [2.5]°	2-2	2.08	16896.989	16892.375	-14	5918.214 ^D	5	6.306	7.040	...	Ne
	$e^7P-s^6D_{4.5}4f$ [1.5]°	2-2	2.26	16868.028	16863.422	-23	5928.375 ^A	8	6.306	7.041	...	
	$e^7P-s^6D_{4.5}4f$ [4.5]°	3-4	1.88	16276.918	16272.473	3	6143.669 ^A	-1	6.275	7.036	...	
	$e^7P-s^6D_{4.5}4f$ [3.5]°	3-4	2.39	16250.900	16246.462	-3	6153.505 ^A	1	6.275	7.038	...	
	$e^7P-s^6D_{4.5}4f$ [3.5]°	3-3	1.70	16247.505	16243.067	-3	6154.791 ^A	1	6.275	7.038	...	
	$e^7P-s^6D_{4.5}4f$ [2.5]°	3-3	2.75	16217.969	16213.540	-3	6166.000 ^A	1	6.275	7.039	...	
	$e^7P-s^6D_{4.5}4f$ [1.5]°	3-2	2.77	16185.331	16180.910	5	6178.434 ^A	-2	6.275	7.041	...	
	$e^7P-s^6D_{4.5}4f$ [4.5]°	4-5	2.90	15924.999	15920.649	3	6279.435 ^D	-1	6.258	7.036	...	I
	$e^7P-s^6D_{4.5}4f$ [4.5]°	4-4	1.56	15924.464	15920.114	-8	6279.646 ^A	3	6.258	7.036	...	
	$e^7P-s^6D_{4.5}4f$ [3.5]°	4-4	2.96	15899.573	15895.230	0	6289.477 ^A	0	6.258	7.038	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2452	$e^7P-s^6D_{4.5}4f$ [2.5] ^o	4-3	2.69	15868.048	15863.714	3	6301.972 ^A	-1	6.258	7.039	...	
	$e^7P-s^6D_{3.5}4f$ [3.5] ^o	2-3	2.70	15902.369	15898.026	8	6288.371 ^A	-3	6.306	7.085	...	
	$e^7P-s^6D_{3.5}4f$ [2.5] ^o	2-3	2.21	15902.003	15897.659	3	6288.516 ^A	-1	6.306	7.085	...	
	$e^7P-s^6D_{3.5}4f$ [2.5] ^o	2-2	2.25	15895.509	15891.167	3	6291.085 ^A	-1	6.306	7.086	...	
	$e^7P-s^6D_{3.5}4f$ [4.5] ^o	3-4	1.36	15300.090	15295.910	-2	6535.909 ^D	1	6.275	7.085	...	II
	$e^7P-s^6D_{3.5}4f$ [3.5] ^o	3-4	2.31	15295.543	15291.364	-2	6537.852 ^D	1	6.275	7.085	...	II
	$e^7P-s^6D_{3.5}4f$ [3.5] ^o	3-3	1.79	15294.170	15289.992	0	6538.439 ^A	0	6.275	7.085	...	
	$e^7P-s^6D_{3.5}4f$ [2.5] ^o	3-2	1.62	15287.831	15283.655	5	6541.150 ^D	-2	6.275	7.086	...	I
	$e^7P-s^6D_{3.5}4f$ [4.5] ^o	4-5	2.14	14991.391	14987.295	-2	6670.495 ^A	1	6.258	7.085	...	
	$e^7P-s^6D_{3.5}4f$ [4.5] ^o	4-4	1.65	14988.276	14984.181	0	6671.881 ^A	0	6.258	7.085	...	
2453	$e^7P-s^6D_{3.5}4f$ [5.5] ^o	4-5	2.09	14986.900	14982.805	0	6672.494 ^A	0	6.258	7.085	...	
	$e^7P-s^6D_{3.5}4f$ [3.5] ^o	4-3	0.48	14982.604	14978.510	11	6674.407 ^B	-5	6.258	7.085	...	
	$e^7P-s^6D_{2.5}4f$ [2.5] ^o	2-3	1.82	15217.184	15213.026	2	6571.518 ^A	-1	6.306	7.121	...	
	$e^7P-s^6D_{2.5}4f$ [3.5] ^o	2-3	1.18	15201.833	15197.680	9	6578.154 ^D	-4	6.306	7.121	...	II
	$e^7P-s^6D_{2.5}4f$ [3.5] ^o	3-4	1.28	14648.724	14644.721	11	6826.533 ^A	-5	6.275	7.121	...	
	$e^7P-s^6D_{2.5}4f$ [4.5] ^o	3-4	1.87	14645.665	14641.663	2	6827.959 ^A	-1	6.275	7.121	...	
	$e^7P-s^6D_{2.5}4f$ [3.5] ^o	3-3	1.08	14645.100	14641.099	2	6828.222 ^A	-1	6.275	7.121	...	
	$e^7P-s^6D_{2.5}4f$ [5.5] ^o	4-5	1.66	14380.614	14376.684	2	6953.806 ^A	-1	6.258	7.120	...	
	$e^7P-s^6D_{2.5}4f$ [4.5] ^o	4-4	0.95	14359.705	14355.781	4	6963.931 ^A	-2	6.258	7.121	...	
	$e^7P-s^6D_{2.5}4f$ [0.5] ^o	2-1	2.96	14802.367	14798.323	9	6755.676 ^B	-4	6.306	7.143	...	
2454	$e^7P-s^6D_{1.5}4f$ [1.5] ^o	2-2	1.38	14798.437	14794.394	15	6757.470 ^D	-7	6.306	7.144	...	II
	$e^7P-s^6D_{1.5}4f$ [2.5] ^o	2-3	0.78	14771.561	14767.525	2	6769.765 ^A	-1	6.306	7.145	...	
	$e^7P-s^6D_{1.5}4f$ [3.5] ^o	2-3	1.18	14746.972	14742.942	4	6781.053 ^D	-2	6.306	7.147	...	I
	$e^7P-s^6D_{1.5}4f$ [4.5] ^o	3-4	1.70	14263.980	14260.081	0	7010.666 ^A	0	6.275	7.144	...	
	$e^7P-s^6D_{1.5}4f$ [3.5] ^o	3-3	0.95	14222.483	14218.596	-2	7031.121 ^A	1	6.275	7.147	...	
	$e^7P-s^6D_{1.5}4f$ [3.5] ^o	4-3	2.65	13952.664	13948.850	8	7167.090 ^B	-4	6.258	7.147	...	
	$e^7P-s^6D_{0.5}4f$ [3.5] ^o	3-4	1.11	14021.579	14017.747	14	7131.864 ^A	-7	6.275	7.159	...	
	$e^7P-s^6D_{0.5}4f$ [2.5] ^o	3-2	2.25	14021.080	14017.248	-22	7132.118 ^B	11	6.275	7.159	...	
2456	$e^5G-u^4F5p^5F^o$	5-5	2.92	42000.571	41989.120	-53	2380.920 ^B	3	6.286	6.581	...	
		6-5	2.84	39034.383	39023.740	-15	2561.844 ^A	1	6.264	6.581	...	
2457	$e^5G-u^4F5p^5D^o$	3-3	2.95	38975.353	38964.727	152	2565.724 ^D	-10	6.350	6.668	...	I
		4-4	2.35	38010.803	38000.440	14	2630.831 ^B	-1	6.320	6.647	...	
		5-4	2.50	34405.157	34395.776	0	2906.541 ^A	0	6.286	6.647	...	
2458	$e^5G-s^6D6p^7F^o$	5-5	0.90	17244.090	17239.382	-9	5799.088 ^A	3	6.286	7.005	...	
		3-2	0.90	16887.881	16883.269	6	5921.406 ^B	-2	6.350	7.084	...	
		6-5	1.43	16722.371	16717.805	-3	5980.013 ^A	1	6.264	7.005	...	
2459	$e^5G-s^6D6p^7P^o$	5-4	1.40	17129.940	17125.262	-23	5837.732 ^D	8	6.286	7.010	...	II
2460	$e^5G-u^3F^o$	3-4	2.99	18609.200	18604.120	0	5373.686 ^D	0	6.350	7.016	...	Ne
		4-4	2.63	17815.423	17810.559	29	5613.114 ^D	-9	6.320	7.016	...	II
2461	$e^5G-s^6D6p^5F^o$	5-5	1.20	16657.188	16652.639	-3	6003.414 ^A	1	6.286	7.031	...	
2462	$e^5G-s^6D6p^5D^o$	3-3	1.26	16808.092	16803.502	0	5949.515 ^A	0	6.350	7.088	...	
		2-1	0.48	16581.011	16576.483	8	6030.995 ^A	-3	6.369	7.117	...	
		2-2	1.34	16540.925	16536.408	0	6045.611 ^A	0	6.369	7.118	...	
2463	$e^5G-s^6D_{4.5}4f$ [2.5] ^o	2-3	2.41	18494.154	18489.105	7	5407.114 ^A	-2	6.369	7.039	...	
	$e^5G-s^6D_{4.5}4f$ [1.5] ^o	2-1	1.00	18445.124	18440.088	-37	5421.487 ^B	11	6.369	7.041	...	
	$e^5G-s^6D_{4.5}4f$ [4.5] ^o	3-4	2.42	18063.835	18058.903	-23	5535.923 ^A	7	6.350	7.036	...	
	$e^5G-s^6D_{4.5}4f$ [2.5] ^o	3-3	0.85	17991.293	17986.381	3	5558.244 ^A	-1	6.350	7.039	...	
	$e^5G-s^6D_{4.5}4f$ [1.5] ^o	3-2	1.20	17951.136	17946.235	16	5570.678 ^A	-5	6.350	7.041	...	
	$e^5G-s^6D_{4.5}4f$ [5.5] ^o	4-5	1.76	17326.464	17321.733	3	5771.518 ^A	-1	6.320	7.036	...	
	$e^5G-s^6D_{4.5}4f$ [4.5] ^o	4-5	1.75	17315.582	17310.854	3	5775.145 ^A	-1	6.320	7.036	...	
	$e^5G-s^6D_{4.5}4f$ [4.5] ^o	4-4	1.89	17314.964	17310.237	3	5775.351 ^A	-1	6.320	7.036	...	
	$e^5G-s^6D_{4.5}4f$ [3.5] ^o	4-4	1.51	17285.534	17280.815	6	5785.184 ^A	-2	6.320	7.038	...	
	$e^5G-s^6D_{4.5}4f$ [3.5] ^o	4-3	1.43	17281.687	17276.968	3	5786.472 ^A	-1	6.320	7.038	...	
	$e^5G-s^6D_{4.5}4f$ [5.5] ^o	5-6	2.00	16542.517	16538.000	0	6045.029 ^A	0	6.286	7.036	...	
	$e^5G-s^6D_{4.5}4f$ [5.5] ^o	5-5	2.50	16536.505	16531.989	0	6047.227 ^A	0	6.286	7.036	...	
	$e^5G-s^6D_{4.5}4f$ [4.5] ^o	5-5	2.60	16526.592	16522.079	0	6050.854 ^D	0	6.286	7.036	...	II

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
	$e^5G-s^6D_{4.5}4f$ [4.5] ^o	5-4	2.12	16526.032	16521.519	5	6051.059 ^A	-2	6.286	7.036	...	
	$e^5G-s^6D_{4.5}4f$ [6.5] ^o	5-6	3.21	16521.740	16517.228	3	6052.631 ^A	-1	6.286	7.037	...	
	$e^5G-s^6D_{4.5}4f$ [3.5] ^o	5-4	1.56	16499.210	16494.704	0	6060.896 ^A	0	6.286	7.038	...	
	$e^5G-s^6D_{4.5}4f$ [5.5] ^o	6-5	1.86	16056.127	16051.741	3	6228.152 ^A	-1	6.264	7.036	...	
	$e^5G-s^6D_{4.5}4f$ [6.5] ^o	6-6	2.78	16042.207	16037.826	3	6233.556 ^A	-1	6.264	7.037	...	
	$e^5G-s^6D_{4.5}4f$ [7.5] ^o	6-7	3.51	15985.094	15980.728	0	6255.828 ^A	0	6.264	7.039	...	
2464	$e^5G-s^6D6p^5P^o$	4-3	0.30	16972.848	16968.213	3	5891.763 ^A	-1	6.320	7.051	...	
		2-2	1.43	16482.480	16477.979	0	6067.048 ^A	0	6.369	7.121	...	
2465	$e^5G-s^6D_{3.5}4f$ [2.5] ^o	2-2	1.00	17294.261	17289.538	12	5782.265 ^B	-4	6.369	7.086	...	
	$e^5G-s^6D_{3.5}4f$ [4.5] ^o	3-4	1.75	16868.663	16864.056	6	5928.152 ^A	-2	6.350	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [3.5] ^o	3-4	0.85	16863.136	16858.531	3	5930.095 ^B	-1	6.350	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [3.5] ^o	3-3	1.54	16861.461	16856.857	6	5930.684 ^A	-2	6.350	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [2.5] ^o	3-3	1.23	16861.049	16856.444	-3	5930.829 ^A	1	6.350	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [2.5] ^o	3-2	0.78	16853.757	16849.155	11	5933.395 ^A	-4	6.350	7.086	...	
	$e^5G-s^6D_{3.5}4f$ [4.5] ^o	4-5	2.18	16217.433	16213.003	-3	6166.204 ^D	1	6.320	7.085	...	II
	$e^5G-s^6D_{3.5}4f$ [5.5] ^o	4-5	3.08	16212.174	16207.746	0	6168.204 ^A	0	6.320	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [3.5] ^o	4-4	2.72	16208.682	16204.255	-3	6169.533 ^A	1	6.320	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [3.5] ^o	4-3	1.30	16207.140	16202.713	5	6170.120 ^A	-2	6.320	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [4.5] ^o	5-5	1.65	15523.339	15519.098	0	6441.913 ^A	0	6.286	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [5.5] ^o	5-6	1.40	15520.961	15516.721	0	6442.900 ^A	0	6.286	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [4.5] ^o	5-4	0.70	15519.997	15515.757	-2	6443.300 ^A	1	6.286	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [5.5] ^o	5-5	1.92	15518.521	15514.281	-2	6443.913 ^A	1	6.286	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [6.5] ^o	5-6	2.67	15505.561	15501.325	2	6449.299 ^A	-1	6.286	7.086	...	
	$e^5G-s^6D_{3.5}4f$ [5.5] ^o	6-6	0.70	15097.014	15092.890	2	6623.826 ^A	-1	6.264	7.085	...	
	$e^5G-s^6D_{3.5}4f$ [6.5] ^o	6-7	1.58	15084.346	15080.225	2	6629.389 ^A	-1	6.264	7.086	....
2466	$e^5G-Dsp1^3D^o$	3-2	2.48	17076.791	17072.128	-9	5855.901 ^A	3	6.350	7.076	...	
2467	$e^5G-s^6D_{2.5}4f$ [1.5] ^o	2-2	0.48	16508.651	16504.142	0	6057.430 ^B	0	6.369	7.120	...	
	$e^5G-s^6D_{2.5}4f$ [3.5] ^o	2-3	1.96	16476.264	16471.764	8	6069.337 ^A	-3	6.369	7.121	...	
	$e^5G-s^6D_{2.5}4f$ [1.5] ^o	3-2	3.62	16106.807	16102.408	13	6208.555 ^D	-5	6.350	7.120	...	I
	$e^5G-s^6D_{2.5}4f$ [2.5] ^o	3-3	2.52	16093.131	16088.736	0	6213.831 ^A	0	6.350	7.121	...	
	$e^5G-s^6D_{2.5}4f$ [3.5] ^o	3-4	2.75	16080.314	16075.922	3	6218.784 ^A	-1	6.350	7.121	...	
	$e^5G-s^6D_{2.5}4f$ [4.5] ^o	3-4	2.30	16076.643	16072.252	5	6220.204 ^A	-2	6.350	7.121	...	
	$e^5G-s^6D_{2.5}4f$ [5.5] ^o	4-5	2.57	15505.041	15500.806	0	6449.515 ^D	0	6.320	7.120	...	Ne
	$e^5G-s^6D_{2.5}4f$ [3.5] ^o	4-4	0.48	15484.130	15479.900	-12	6458.225 ^B	5	6.320	7.121	...	
	$e^5G-s^6D_{2.5}4f$ [4.5] ^o	4-5	1.59	15483.833	15479.603	-2	6458.349 ^A	1	6.320	7.121	...	
	$e^5G-s^6D_{2.5}4f$ [4.5] ^o	4-4	1.61	15480.736	15476.507	2	6459.641 ^D	-1	6.320	7.121	...	II
	$e^5G-s^6D_{2.5}4f$ [5.5] ^o	5-6	1.98	14871.677	14867.614	2	6724.191 ^A	-1	6.286	7.120	...	
	$e^5G-s^6D_{2.5}4f$ [4.5] ^o	5-5	1.28	14849.891	14845.833	2	6734.056 ^A	-1	6.286	7.121	...	
2468	$e^5G-t^3F^o$	4-3	1.56	15011.798	15007.697	-14	6661.427 ^A	6	6.320	7.146	...	
2469	$e^5G-s^6D_{1.5}4f$ [2.5] ^o	2-3	2.71	15972.022	15967.659	3	6260.948 ^A	-1	6.369	7.145	...	
	$e^5G-s^6D_{1.5}4f$ [3.5] ^o	2-3	2.21	15943.277	15938.922	0	6272.236 ^A	0	6.369	7.147	...	
	$e^5G-s^6D_{1.5}4f$ [4.5] ^o	3-4	2.40	15617.898	15613.632	0	6402.910 ^A	0	6.350	7.144	...	
	$e^5G-s^6D_{1.5}4f$ [3.5] ^o	3-4	2.18	15570.983	15566.729	2	6422.202 ^A	-1	6.350	7.146	...	
	$e^5G-s^6D_{1.5}4f$ [3.5] ^o	3-3	0.60	15568.164	15563.911	2	6423.365 ^A	-1	6.350	7.147	...	
	$e^5G-s^6D_{1.5}4f$ [4.5] ^o	4-5	1.38	15057.492	15053.378	0	6641.212 ^D	0	6.320	7.144	...	I
	$e^5G-s^6D_{1.5}4f$ [3.5] ^o	4-4	0.70	15011.323	15007.221	2	6661.638 ^B	-1	6.320	7.146	...	
2470	$e^5G-s^6D_{0.5}4f$ [2.5] ^o	2-3	0.60	15691.443	15687.157	12	6372.900 ^B	-5	6.369	7.159	...	
	$e^5G-s^6D_{0.5}4f$ [3.5] ^o	2-3	2.24	15686.803	15682.518	2	6374.785 ^A	-1	6.369	7.159	...	
	$e^5G-s^6D_{0.5}4f$ [3.5] ^o	3-4	1.71	15327.744	15323.557	0	6524.117 ^A	0	6.350	7.159	...	
2471	$e^5G-s^6D_{4.5}5f$ [7.5] ^o	6-7	2.20	11405.840	11402.718	-12	8767.438 ^D	9	6.264	7.351	...	I
2472	$e^7G-^4F5p^5F^o$	5-4	2.87	46294.517	46281.897	-21	2160.083 ^B	1	6.351	6.619	...	
2473	$e^7G-^4F5p^3F^o$	4-3	1.69	33851.074	33841.844	57	2954.116 ^B	-5	6.365	6.731	...	
2474	$e^7G-^4F5p^5D^o$	4-3	3.23	40818.892	40807.763	-133	2449.846 ^D	8	6.365	6.668	...	Ne
		1-2	3.46	33739.796	33730.596	-114	2963.859 ^D	10	6.393	6.761	...	II
2475	$e^7G-s^6D6p^7F^o$	6-5	1.79	18066.455	18061.523	13	5535.120 ^A	-4	6.319	7.005	...	
		1-0	1.97	18002.454	17997.539	10	5554.798 ^A	-3	6.393	7.082	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸			
2476	$e^7G-s^6D6p^5F^o$	7-6	2.04	17827.371	17822.503	-10	5609.352 ^A	3	6.280	6.975	...	Ne			
		5-5	2.98	18252.415	18247.432	7	5478.727 ^D	-2	6.351	7.031	...				
		6-5	1.67	17423.269	17418.511	0	5739.451 ^A	0	6.319	7.031	...				
		5-4	1.84	17135.640	17130.961	6	5835.790 ^A	-2	6.351	7.075	...				
2477	$e^7G-s^6D6p^5D^o$	3-3	0.70	17519.240	17514.457	3	5708.010 ^A	-1	6.380	7.088	...				
		3-2	0.90	16791.934	16787.348	-8	5955.240 ^B	3	6.380	7.118	...				
		1-0	0.90	16545.569	16541.051	3	6043.914 ^A	-1	6.393	7.143	...				
2478	$e^7G-s^6D_{4,5}4f$ [1.5] ^o	2-2	1.67	19047.691	19042.492	-7	5249.980 ^D	2	6.390	7.041	...	I			
		$e^7G-s^6D_{4,5}4f$ [3.5] ^o	4-4	0.78	18416.694	18411.667	-3	5429.856 ^A	1	6.365	7.038		...		
		$e^7G-s^6D_{4,5}4f$ [5.5] ^o	5-5	1.70	18107.593	18102.650	-3	5522.545 ^A	1	6.351	7.036		...		
		$e^7G-s^6D_{4,5}4f$ [4.5] ^o	5-5	1.36	18095.725	18090.785	13	5526.167 ^B	-4	6.351	7.036	...			
		$e^7G-s^6D_{4,5}4f$ [6.5] ^o	5-6	2.02	18089.895	18084.956	0	5527.948 ^A	0	6.351	7.037	...			
		$e^7G-s^6D_{4,5}4f$ [5.5] ^o	6-6	1.89	17297.835	17293.112	-3	5781.070 ^A	1	6.319	7.036	...			
		$e^7G-s^6D_{4,5}4f$ [5.5] ^o	6-5	1.99	17291.264	17286.543	-3	5783.267 ^D	1	6.319	7.036	...	II		
		$e^7G-s^6D_{4,5}4f$ [6.5] ^o	6-7	2.04	17282.201	17277.482	0	5786.300 ^A	0	6.319	7.036	...			
		$e^7G-s^6D_{4,5}4f$ [4.5] ^o	6-5	1.49	17280.418	17275.699	-9	5786.897 ^C	3	6.319	7.036	...	II		
		$e^7G-s^6D_{4,5}4f$ [5.5] ^o	7-6	2.00	16400.790	16396.311	0	6097.267 ^D	0	6.280	7.036	...			
		$e^7G-s^6D_{4,5}4f$ [6.5] ^o	7-7	2.85	16386.732	16382.256	3	6102.498 ^A	-1	6.280	7.036	...	I		
		$e^7G-s^6D_{4,5}4f$ [6.5] ^o	7-6	0.78	16380.335	16375.862	-30	6104.881 ^D	11	6.280	7.037	...			
2479	$e^7G-s^6D6p^5P^o$	7-8	3.54	16320.783	16316.325	0	6127.157 ^A	0	6.280	7.039	...				
		4-3	2.06	18062.207	18057.275	36	5536.422 ^A	-11	6.365	7.051	...				
		1-2	1.26	17034.643	17029.991	3	5870.390 ^A	-1	6.393	7.121	...				
		2-2	1.34	16956.417	16951.787	0	5897.472 ^A	0	6.390	7.121	...				
2480	$e^7G-x^3I^o$	3-2	1.38	16731.716	16727.147	6	5976.673 ^A	-2	6.380	7.121	...				
		7-7	0.70	15684.109	15679.825	0	6375.880 ^A	0	6.280	7.070	...				
2481	$e^7G-s^6D_{3,5}4f$ [1.5] ^o	1-1	0.30	17903.612	17898.724	-3	5585.465 ^A	1	6.393	7.086	...				
		$e^7G-s^6D_{3,5}4f$ [3.5] ^o	3-4	1.28	17579.033	17574.233	-6	5688.595 ^A	2	6.380	7.085		...		
		$e^7G-s^6D_{3,5}4f$ [3.5] ^o	3-3	1.34	17577.216	17572.417	0	5689.183 ^A	0	6.380	7.085		...		
		$e^7G-s^6D_{3,5}4f$ [2.5] ^o	3-2	0.70	17568.844	17564.047	6	5691.894 ^A	-2	6.380	7.086		...		
		$e^7G-s^6D_{3,5}4f$ [4.5] ^o	4-4	1.74	17205.011	17200.313	-3	5812.260 ^A	1	6.365	7.085		...		
		$e^7G-s^6D_{3,5}4f$ [3.5] ^o	4-4	1.89	17199.285	17194.589	18	5814.195 ^A	-6	6.365	7.085		...		
		$e^7G-s^6D_{3,5}4f$ [3.5] ^o	4-3	1.41	17197.528	17192.832	3	5814.789 ^A	-1	6.365	7.085		...		
		$e^7G-s^6D_{3,5}4f$ [4.5] ^o	5-5	1.58	16899.799	16895.184	0	5917.230 ^A	0	6.351	7.085		...		
		$e^7G-s^6D_{3,5}4f$ [5.5] ^o	5-6	2.08	16896.989	16892.375	9	5918.214 ^D	-3	6.351	7.085		...		
		$e^7G-s^6D_{3,5}4f$ [3.5] ^o	5-4	0.70	16890.297	16885.684	0	5920.559 ^B	0	6.351	7.085		...		
		$e^7G-s^6D_{3,5}4f$ [6.5] ^o	5-6	1.77	16878.728	16874.119	0	5924.617 ^A	0	6.351	7.086		...		
		$e^7G-s^6D_{3,5}4f$ [4.5] ^o	6-5	1.81	16186.593	16182.172	-3	6177.952 ^A	1	6.319	7.085		...		
2482	$e^7G-s^6D_{3,5}4f$ [5.5] ^o	6-6	2.66	16184.005	16179.585	-3	6178.940 ^D	1	6.319	7.085	...	I			
		$e^7G-s^6D_{3,5}4f$ [6.5] ^o	6-7	3.44	16169.448	16165.031	-3	6184.503 ^A	1	6.319	7.086		...		
		$e^7G-s^6D_{3,5}4f$ [6.5] ^o	6-6	1.68	16167.262	16162.846	0	6185.339 ^A	0	6.319	7.086		...		
		$e^7G-s^6D_{2,5}4f$ [2.5] ^o	1-2	1.23	17052.298	17047.642	3	5864.312 ^D	-1	6.393	7.120		...	II	
		$e^7G-s^6D_{2,5}4f$ [1.5] ^o	2-2	1.38	16984.137	16979.499	20	5887.847 ^D	-7	6.390	7.120		...		
		$e^7G-s^6D_{2,5}4f$ [2.5] ^o	2-3	1.04	16968.942	16964.309	20	5893.119 ^D	-7	6.390	7.121		...		I
		$e^7G-s^6D_{2,5}4f$ [3.5] ^o	2-3	1.87	16949.801	16945.173	-29	5899.774 ^A	10	6.390	7.121		...	I	
		$e^7G-s^6D_{2,5}4f$ [2.5] ^o	3-3	1.69	16743.883	16739.311	-3	5972.330 ^A	1	6.380	7.121		...		
		$e^7G-s^6D_{2,5}4f$ [3.5] ^o	3-4	1.75	16730.012	16725.443	-3	5977.282 ^A	1	6.380	7.121		...		
		$e^7G-s^6D_{2,5}4f$ [4.5] ^o	3-4	2.13	16726.038	16721.470	3	5978.702 ^A	-1	6.380	7.121		...		
		$e^7G-s^6D_{2,5}4f$ [3.5] ^o	3-3	1.83	16725.302	16720.735	6	5978.965 ^A	-2	6.380	7.121		...		
		$e^7G-s^6D_{2,5}4f$ [5.5] ^o	4-5	2.97	16409.082	16404.600	-5	6094.186 ^A	2	6.365	7.120		...		
$e^7G-s^6D_{2,5}4f$ [3.5] ^o	4-4	2.03	16385.682	16381.207	-3	6102.889 ^D	1	6.365	7.121	...	II				
$e^7G-s^6D_{2,5}4f$ [4.5] ^o	4-5	2.27	16385.335	16380.860	-5	6103.018 ^A	2	6.365	7.121	...					
$e^7G-s^6D_{2,5}4f$ [4.5] ^o	4-4	2.30	16381.867	16377.393	0	6104.310 ^A	0	6.365	7.121	...					
$e^7G-s^6D_{2,5}4f$ [3.5] ^o	4-3	1.18	16381.162	16376.688	0	6104.573 ^A	0	6.365	7.121	...					
$e^7G-s^6D_{2,5}4f$ [5.5] ^o	5-6	3.29	16130.312	16125.906	3	6199.508 ^A	-1	6.351	7.120	...					
$e^7G-s^6D_{2,5}4f$ [5.5] ^o	5-5	1.57	16127.617	16123.212	-3	6200.544 ^A	1	6.351	7.120	...					
$e^7G-s^6D_{2,5}4f$ [3.5] ^o	5-4	1.40	16105.007	16100.608	-8	6209.249 ^A	3	6.351	7.121	...					
$e^7G-s^6D_{2,5}4f$ [4.5] ^o	5-5	2.49	16104.683	16100.284	-3	6209.374 ^A	1	6.351	7.121	...					

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2483	$e^7G-s^6D_{1.5}4f$ [2.5] ^o	1-2	2.22	16485.730	16481.228	-3	6065.852 ^A	1	6.393	7.145	...	I
	$e^7G-s^6D_{1.5}4f$ [2.5] ^o	2-3	1.65	16416.660	16412.176	3	6091.373 ^A	-1	6.390	7.145	...	
	$e^7G-s^6D_{1.5}4f$ [2.5] ^o	2-2	1.88	16412.459	16407.977	0	6092.932 ^A	0	6.390	7.145	...	
	$e^7G-s^6D_{1.5}4f$ [3.5] ^o	2-3	2.35	16386.294	16381.819	3	6102.661 ^A	-1	6.390	7.147	...	
	$e^7G-s^6D_{1.5}4f$ [4.5] ^o	3-4	2.66	16230.056	16225.623	3	6161.408 ^A	-1	6.380	7.144	...	
	$e^7G-s^6D_{1.5}4f$ [2.5] ^o	3-3	2.08	16205.945	16201.518	0	6170.575 ^A	0	6.380	7.145	...	
	$e^7G-s^6D_{1.5}4f$ [2.5] ^o	3-2	1.20	16201.843	16197.418	-5	6172.137 ^D	2	6.380	7.145	...	
	$e^7G-s^6D_{1.5}4f$ [3.5] ^o	3-4	2.73	16179.397	16174.978	0	6180.700 ^A	0	6.380	7.146	...	
	$e^7G-s^6D_{1.5}4f$ [3.5] ^o	3-3	2.13	16176.350	16171.932	-3	6181.864 ^A	1	6.380	7.147	...	
	$e^7G-s^6D_{1.5}4f$ [4.5] ^o	4-5	2.55	15908.663	15904.318	-8	6285.883 ^A	3	6.365	7.144	...	
	$e^7G-s^6D_{1.5}4f$ [3.5] ^o	4-4	1.72	15857.138	15852.807	-5	6306.308 ^A	2	6.365	7.146	...	
2484	$e^7G-s^6D_{0.5}4f$ [2.5] ^o	1-2	2.63	16190.223	16185.801	-3	6176.567 ^D	1	6.393	7.159	...	II
	$e^7G-s^6D_{0.5}4f$ [2.5] ^o	2-3	2.79	16120.368	16115.965	-3	6203.332 ^A	1	6.390	7.159	...	
	$e^7G-s^6D_{0.5}4f$ [2.5] ^o	2-2	2.01	16119.550	16115.147	3	6203.647 ^A	-1	6.390	7.159	...	
	$e^7G-s^6D_{0.5}4f$ [3.5] ^o	2-3	0.60	16115.487	16111.085	0	6205.211 ^B	0	6.390	7.159	...	
	$e^7G-s^6D_{0.5}4f$ [2.5] ^o	3-3	1.38	15917.136	15912.789	-13	6282.537 ^A	5	6.380	7.159	...	
	$e^7G-s^6D_{0.5}4f$ [3.5] ^o	3-4	2.31	15916.941	15912.594	-3	6282.614 ^A	1	6.380	7.159	...	
2485	$e^7G-s^4D5p^5D^o$	4-4	2.34	15554.707	15550.458	-27	6428.922 ^D	11	6.365	7.162	...	I
		4-3	1.36	14928.503	14924.424	-2	6698.595 ^A	1	6.365	7.195	...	
2486	$e^7G-s^4D5p^5F^o$	4-5	1.92	14679.769	14675.758	-4	6812.096 ^A	2	6.365	7.209	...	
		4-4	0.60	13993.084	13989.260	4	7146.387 ^B	-2	6.365	7.251	...	
		5-4	1.15	13787.894	13784.125	13	7252.739 ^A	-7	6.351	7.251	...	
2487	$e^7G-s^4D5p^5P^o$	4-3	1.32	13624.817	13621.092	-4	7339.548 ^A	2	6.365	7.274	...	I
		2-1	1.32	12786.943	12783.446	-2	7820.477 ^D	1	6.390	7.359	...	
2488	$e^7G-s^6D_{4.5}5f$ [6.5] ^o	7-7	1.79	11593.095	11589.922	1	8625.824 ^B	-1	6.280	7.349	...	
	$e^7G-s^6D_{4.5}5f$ [7.5] ^o	7-8	2.56	11575.685	11572.517	-8	8638.797 ^A	6	6.280	7.351	...	
2489	$e^7G-s^6D_{3.5}5f$ [6.5] ^o	6-7	2.16	11492.699	11489.553	-5	8701.176 ^A	4	6.319	7.398	...	
2490	$u^5F^o-g^5F$	5-5	2.82	48907.958	48894.626	0	2044.657 ^B	0	6.325	6.579	...	II
2491	$u^5F^o-h^5D$	5-4	2.52	46762.033	46749.285	-87	2138.487 ^D	4	6.325	6.590	...	
		4-3	2.14	46202.842	46190.247	128	2164.369 ^B	-6	6.370	6.639	...	
2492	$u^5F^o-f^5G$	5-6	2.97	46457.974	46445.309	43	2152.483 ^A	-2	6.325	6.592	...	
2493	$u^5F^o-e^5H$	5-5	2.57	34994.486	34984.944	37	2857.593 ^C	-3	6.325	6.679	...	
2494	$u^5F^o-e^3G$	4-5	2.05	42409.180	42397.619	0	2357.980 ^B	0	6.370	6.663	...	Ne
		3-4	2.41	40859.070	40847.930	67	2447.437 ^B	-4	6.400	6.703	...	
2495	$u^5F^o-f^3D$	1-2	2.04	47148.505	47135.652	-89	2120.958 ^D	4	6.440	6.703	...	
2496	$u^5F^o-g^7D$	5-4	2.13	32174.193	32165.420	10	3108.081 ^A	-1	6.325	6.710	...	
2497	$u^5F^o-s^6D6s^5D$	3-4	2.59	34954.976	34945.445	24	2860.823 ^A	-2	6.400	6.754	...	
		3-3	2.86	30809.501	30801.099	19	3245.752 ^A	-2	6.400	6.802	...	
		2-2	2.63	30241.145	30232.899	0	3306.753 ^A	0	6.426	6.836	...	
		1-1	2.40	29763.587	29755.471	-9	3359.810 ^A	1	6.440	6.857	...	
		1-0	2.65	29030.087	29022.170	0	3444.702 ^A	0	6.440	6.867	...	
		5-4	3.48	28874.687	28866.812	0	3463.241 ^A	0	6.325	6.754	...	
		2-1	2.84	28750.395	28742.554	0	3478.213 ^A	0	6.426	6.857	...	
		4-3	3.34	28707.823	28699.994	8	3483.371 ^A	-1	6.370	6.802	...	
		3-2	2.78	28448.781	28441.023	8	3515.089 ^A	-1	6.400	6.836	...	
2498	$u^5F^o-^4F6s^5F$	4-5	1.49	21130.802	21125.036	4	4732.428 ^A	-1	6.370	6.957	...	
		5-5	2.70	19618.514	19613.159	0	5097.226 ^A	0	6.325	6.957	...	
		1-2	1.30	17912.524	17907.634	26	5582.686 ^A	-8	6.440	7.132	...	
		2-3	0.60	17595.550	17590.746	-9	5683.255 ^B	3	6.426	7.130	...	
2499	$u^5F^o-s^6D5d^5D$	3-4	1.65	21793.752	21787.805	14	4588.471 ^A	-3	6.400	6.969	...	
		4-4	1.28	20720.690	20715.035	0	4826.094 ^B	0	6.370	6.969	...	
		4-3	1.54	20178.922	20173.415	4	4955.666 ^B	-1	6.370	6.985	...	
		5-4	2.03	19264.515	19259.257	0	5190.891 ^A	0	6.325	6.969	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2500	$u^5F^o-s^6D5d^5G$	3-4	2.09	19786.049	19780.649	4	5054.066 ^A	-1	6.400	7.026	...	II
		4-5	2.65	19345.450	19340.170	4	5169.174 ^A	-1	6.370	7.011	...	
		2-3	1.77	19127.030	19121.810	-7	5228.203 ^A	2	6.426	7.074	...	
		1-2	2.61	18910.644	18905.482	-4	5288.027 ^A	1	6.440	7.096	...	
		4-4	2.37	18897.568	18892.410	4	5291.686 ^D	-1	6.370	7.026	...	
		5-6	3.17	18778.640	18773.514	-4	5325.199 ^A	1	6.325	6.985	...	
		2-2	1.59	18496.500	18491.451	0	5406.428 ^A	0	6.426	7.096	...	
		5-5	2.00	18070.223	18065.289	23	5533.966 ^A	-7	6.325	7.011	...	
2501	$u^5F^o-s^6D5d^7F$	1-2	2.29	19670.333	19664.964	-8	5083.798 ^A	2	6.440	7.071	...	II
		1-1	0.60	18982.813	18977.631	11	5267.923 ^B	-3	6.440	7.093	...	
		5-6	1.78	18479.793	18474.748	0	5411.316 ^A	0	6.325	6.996	...	
		3-4	1.59	17580.127	17575.327	3	5688.241 ^A	-1	6.400	7.105	...	
		5-5	1.56	17164.229	17159.542	6	5826.070 ^A	-2	6.325	7.047	...	
		4-4	1.49	16875.213	16870.605	31	5925.851 ^D	-11	6.370	7.105	...	
2502	$u^5F^o-s^6D5d^7D$	1-1	1.32	19768.542	19763.146	-8	5058.542 ^A	2	6.440	7.067	...	II
		2-1	1.36	19316.411	19311.139	0	5176.945 ^A	0	6.426	7.067	...	
		3-2	0.60	19143.401	19138.176	4	5223.732 ^A	-1	6.400	7.047	...	
		2-3	2.50	19073.209	19068.003	4	5242.956 ^A	-1	6.426	7.076	...	
		3-3	1.43	18344.275	18339.267	3	5451.292 ^B	-1	6.400	7.076	...	
2503	$u^5F^o-s^6D5d^7P$	2-3	2.15	21576.788	21570.900	-42	4634.610 ^B	9	6.426	7.000	...	I
		1-2	1.75	18707.579	18702.472	-28	5345.427 ^D	8	6.440	7.103	...	
2504	$u^5F^o-s^6D5d^7G$	1-2	0.60	18165.812	18160.853	-3	5504.846 ^B	1	6.440	7.123	...	II
		3-3	0.48	17414.643	17409.888	-18	5742.294 ^B	6	6.400	7.112	...	
		4-5	2.08	17405.337	17400.585	3	5745.364 ^A	-1	6.370	7.083	...	
		4-4	0.60	17317.813	17313.084	-6	5774.401 ^B	2	6.370	7.086	...	
		5-6	2.08	17069.920	17065.259	-9	5858.258 ^A	3	6.325	7.051	...	
		4-3	1.18	16722.682	16718.115	14	5979.902 ^A	-5	6.370	7.112	...	
2505	$u^5F^o-s^6D5d^5S$	3-2	2.05	19602.723	19597.373	-4	5101.332 ^A	1	6.400	7.032	...	I
2506	$u^5F^o-s^6D5d^5F$	1-2	1.34	19974.448	19968.997	-8	5006.396 ^A	2	6.440	7.061	...	
		3-3	2.46	19577.846	19572.503	8	5107.814 ^A	-2	6.400	7.033	...	
		2-2	2.08	19512.960	19507.634	0	5124.799 ^A	0	6.426	7.061	...	
		4-3	1.75	18707.579	18702.472	21	5345.427 ^D	-6	6.370	7.033	...	
		4-5	2.85	18585.916	18580.842	7	5380.418 ^A	-2	6.370	7.037	...	
		3-4	2.02	18161.414	18156.456	-20	5506.179 ^A	6	6.400	7.082	...	
		4-4	1.18	17410.110	17405.356	9	5743.789 ^A	-3	6.370	7.082	...	
2507	$u^5F^o-^4F6s^3F$	2-3	2.20	18548.013	18542.950	-3	5391.413 ^A	1	6.426	7.094	...	II
		5-4	0.48	17266.379	17261.665	12	5791.602 ^B	-4	6.325	7.043	...	
2508	$u^5F^o-s^6D5d^5P$	3-3	1.59	18047.062	18042.135	-10	5541.068 ^B	3	6.400	7.087	...	II
2509	$u^5F^o-s^4D4d^5F$	2-1	1.43	15299.842	15295.662	-14	6536.015 ^D	6	6.426	7.236	...	
2510	$u^5F^o-i^5D$	2-3	0.60	16704.178	16699.617	3	5986.526 ^A	-1	6.426	7.168	...	
		3-3	0.48	16142.412	16138.003	10	6194.861 ^A	-4	6.400	7.168	...	II
2511	$u^5F^o-s^6D7s^7D$	4-4	1.28	14670.377	14666.369	-2	6816.457 ^A	1	6.370	7.215	...	
		3-3	2.28	14574.639	14570.657	-4	6861.233 ^A	2	6.400	7.250	...	
		5-5	1.36	14534.072	14530.100	13	6880.384 ^A	-6	6.325	7.178	...	
2512	$u^5F^o-g^5G$	5-6	0.85	14315.822	14311.910	-4	6985.278 ^A	2	6.325	7.191	...	I
2513	$u^5F^o-s^4D4d^5P$	1-2	1.32	15955.821	15951.463	0	6267.305 ^A	0	6.440	7.217	...	
2514	$u^5F^o-s^6D7s^5D$	2-1	0.70	13725.102	13721.350	9	7285.920 ^D	-5	6.426	7.329	...	
		5-4	1.34	13689.782	13686.040	6	7304.718 ^A	-3	6.325	7.231	...	II
		4-3	1.20	13548.307	13544.603	4	7380.996 ^D	-2	6.370	7.285	...	
2515	$u^5F^o-^4F5d^5F$	4-5	1.78	13870.123	13866.332	13	7209.741 ^D	-7	6.370	7.264	...	Ne
		5-5	1.15	13202.114	13198.505	0	7574.544 ^B	0	6.325	7.264	...	
2516	$x^3H^o-s^6D5d^7G$	5-6	2.17	17222.986	17218.283	9	5806.194 ^D	-3	6.331	7.051	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2517	$x^3H^o-s^6D5d^5F$	4-5	0.60	18681.989	18676.889	14	5352.749 ^A	-4	6.374	7.037	...	
2518	$x^3H^o-s^6D5d^5P$	4-3	1.75	17388.213	17383.466	-18	5751.022 ^D	6	6.374	7.087	...	I
2519	$x^3H^o-s^4D4d^5F$	5-4	1.56	14184.087	14180.210	4	7050.154 ^D	-2	6.331	7.206	...	II
2520	$t^5D^o-g^5F$	3-4	2.53	49205.818	49192.404	0	2032.280 ^B	0	6.368	6.620	...	
		2-3	2.33	45434.513	45422.126	41	2200.970 ^B	-2	6.401	6.674	...	
		0-1	1.97	40905.734	40894.582	-17	2444.645 ^C	1	6.440	6.743	...	
		2-2	2.37	38058.919	38048.542	-87	2627.505 ^B	6	6.401	6.727	...	
2521	$t^5D^o-h^5D$	4-4	2.75	48111.225	48098.110	-23	2078.517 ^B	1	6.332	6.590	...	
		1-1	2.52	43389.839	43378.011	169	2304.687 ^A	-9	6.426	6.711	...	
		4-3	2.73	40498.865	40487.823	-16	2469.205 ^D	1	6.332	6.639	...	I
		3-2	2.50	38383.767	38373.302	29	2605.268 ^B	-2	6.368	6.691	...	
2522	$t^5D^o-f^5P$	4-3	2.94	47985.473	47972.392	0	2083.964 ^A	0	6.332	6.591	...	
		3-2	2.46	45303.068	45290.718	41	2207.356 ^B	-2	6.368	6.641	...	
2523	$t^5D^o-f^5G$	4-5	2.77	45350.322	45337.959	82	2205.056 ^D	-4	6.332	6.606	...	Ne
		2-3	2.65	39507.952	39497.180	0	2531.136 ^A	0	6.401	6.715	...	
		1-2	2.35	39249.255	39238.555	31	2547.819 ^B	-2	6.426	6.741	...	
		2-2	2.32	36420.929	36410.999	0	2745.674 ^B	0	6.401	6.741	...	
2524	$t^5D^o-e^5H$	2-3	2.63	34952.923	34943.393	73	2860.991 ^A	-6	6.401	6.756	...	
2525	$t^5D^o-e^3G$	4-5	2.02	37554.270	37544.031	-56	2662.813 ^C	4	6.332	6.663	...	
		3-4	2.31	36966.909	36956.830	41	2705.122 ^B	-3	6.368	6.703	...	
2526	$t^5D^o-g^7D$	3-4	2.22	36187.947	36178.080	0	2763.351 ^B	0	6.368	6.710	...	
		4-4	2.97	32807.225	32798.279	54	3048.109 ^A	-5	6.332	6.710	...	
2527	$t^5D^o-s^6D6s^5D$	3-4	3.12	32066.606	32057.862	10	3118.509 ^A	-1	6.368	6.754	...	
		2-3	2.97	30913.525	30905.095	-10	3234.830 ^A	1	6.401	6.802	...	
		1-2	2.71	30245.188	30236.940	9	3306.311 ^A	-1	6.426	6.836	...	
		0-1	2.32	29725.765	29717.658	0	3364.085 ^A	0	6.440	6.857	...	
		4-4	3.34	29383.478	29375.465	-9	3403.273 ^A	1	6.332	6.754	...	
		1-1	2.18	28754.057	28746.216	8	3477.770 ^A	-1	6.426	6.857	...	
		3-3	2.69	28543.390	28535.606	8	3503.438 ^A	-1	6.368	6.802	...	
		2-2	2.14	28537.420	28529.637	-41	3504.171 ^A	5	6.401	6.836	...	
		3-2	1.67	26505.695	26498.466	7	3772.774 ^B	-1	6.368	6.836	...	
		4-3	1.80	26397.726	26390.526	-28	3788.205 ^B	4	6.332	6.802	...	
2528	$t^5D^o-4F6s^5F$	4-5	2.81	19852.070	19846.652	0	5037.258 ^A	0	6.332	6.957	...	
		3-4	1.94	19399.300	19394.005	0	5154.825 ^A	0	6.368	7.007	...	
		2-1	3.19	16328.919	16324.459	-21	6124.104 ^D	8	6.401	7.160	...	I
2529	$t^5D^o-s^6D5d^5D$	3-4	2.10	20634.902	20629.271	9	4846.158 ^A	-2	6.368	6.969	...	
		2-2	1.67	20620.839	20615.212	-13	4849.463 ^B	3	6.401	7.002	...	
		1-1	1.63	20377.808	20372.247	17	4907.299 ^D	-4	6.426	7.034	...	II
		3-3	2.48	20097.545	20092.060	8	4975.732 ^A	-2	6.368	6.985	...	
		2-1	2.18	19588.040	19582.693	-4	5105.156 ^A	1	6.401	7.034	...	
		3-2	2.39	19538.611	19533.278	4	5118.071 ^A	-1	6.368	7.002	...	
		4-4	2.72	19489.670	19484.351	0	5130.923 ^A	0	6.332	6.969	...	
2530	$t^5D^o-s^6D5d^5G$	4-3	2.26	19009.610	19004.421	0	5260.497 ^A	0	6.332	6.985	...	
		3-4	2.06	18826.183	18821.044	4	5311.751 ^D	-1	6.368	7.026	...	I
		1-2	1.11	18498.006	18492.956	0	5405.988 ^A	0	6.426	7.096	...	
2531	$t^5D^o-s^6D5d^7F$	4-5	1.86	18268.160	18263.173	0	5474.005 ^A	0	6.332	7.011	...	
		1-2	2.00	19224.258	19219.011	-11	5201.761 ^A	3	6.426	7.071	...	
		0-1	1.23	18967.403	18962.225	0	5272.203 ^A	0	6.440	7.093	...	
		2-2	2.35	18519.859	18514.803	10	5399.609 ^A	-3	6.401	7.071	...	
		3-2	1.48	17642.191	17637.374	-28	5668.230 ^B	9	6.368	7.071	...	
2532	$t^5D^o-s^6D5d^7D$	4-5	1.53	17342.726	17337.991	-6	5766.106 ^A	2	6.332	7.047	...	
		1-2	1.74	19940.338	19934.896	-16	5014.960 ^D	4	6.426	7.047	...	Ne
		0-1	1.83	19751.849	19746.458	4	5062.817 ^A	-1	6.440	7.067	...	
		1-1	2.00	19318.060	19312.788	0	5176.503 ^A	0	6.426	7.067	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2533	$t^5D^o-s^6D5d^7G$	3-2	1.28	18243.457	18238.477	3	5481.417 ^A	-1	6.368	7.047	...	II
		0-1	1.36	18591.497	18586.421	10	5378.803 ^D	-3	6.440	7.107	...	
		1-1	1.20	18206.652	18201.681	-20	5492.498 ^B	6	6.426	7.107	...	
		3-4	0.85	17257.833	17253.121	-15	5794.470 ^B	5	6.368	7.086	...	
2534	$t^5D^o-s^6D5d^5S$	2-2	2.26	19644.786	19639.425	-8	5090.409 ^A	2	6.401	7.032	...	
2535	$t^5D^o-s^6D5d^5F$	2-3	2.31	19619.807	19614.452	0	5096.890 ^A	0	6.401	7.033	...	I
		1-2	2.23	19514.643	19509.317	4	5124.357 ^A	-1	6.426	7.061	...	
		0-1	1.20	19469.264	19463.950	4	5136.301 ^A	-1	6.440	7.077	...	
		1-1	1.67	19047.691	19042.492	29	5249.980 ^D	-8	6.426	7.077	...	
		2-2	1.36	18789.176	18784.047	-7	5322.213 ^A	2	6.401	7.061	...	
		3-3	1.75	18637.588	18632.500	-3	5365.501 ^A	1	6.368	7.033	...	
		2-1	1.11	18355.882	18350.871	-17	5447.845 ^B	5	6.401	7.077	...	
		4-3	0.95	17698.303	17693.471	13	5650.259 ^A	-4	6.332	7.033	...	
2536	$t^5D^o-^4F6s^3F$	3-4	1.52	18359.181	18354.169	27	5446.866 ^D	-8	6.368	7.043	...	II
		4-4	1.36	17447.019	17442.255	-3	5731.638 ^A	1	6.332	7.043	...	
2537	$t^5D^o-s^6D5d^5P$	2-2	1.11	17321.620	17316.890	0	5773.132 ^B	0	6.401	7.117	...	
2538	$t^5D^o-s^6D7s^5D$	3-4	0.70	14367.845	14363.918	8	6959.986 ^B	-4	6.368	7.231	...	
		0-1	1.08	13943.499	13939.687	-6	7171.801 ^A	3	6.440	7.329	...	
		4-4	1.26	13803.112	13799.339	19	7244.743 ^A	-10	6.332	7.231	...	
		2-2	1.28	13503.010	13499.318	5	7405.756 ^A	-3	6.401	7.319	...	
		3-2	1.04	13030.378	13026.815	-8	7674.374 ^B	5	6.368	7.319	...	
2539	$t^5D^o-^4F5d^5F$	4-4	1.28	13305.930	13302.292	-2	7515.446 ^A	1	6.332	7.264	...	
2540	$f^5F-^4F5p^3G^o$	3-3	2.03	36319.973	36310.070	-66	2753.306 ^B	5	6.398	6.739	...	
2541	$f^5F-^4F5p^5F^o$	4-3	2.67	45466.780	45454.385	-21	2199.408 ^A	1	6.380	6.653	...	
		5-4	2.97	43755.154	43743.226	-19	2285.445 ^A	1	6.336	6.619	...	
		3-2	2.66	41010.061	40998.880	-50	2438.426 ^B	3	6.398	6.700	...	
2542	$f^5F-^4F5p^3F^o$	4-3	2.61	35368.670	35359.027	13	2827.361 ^A	-1	6.380	6.731	...	
2543	$f^5F-^4F5p^5D^o$	4-4	2.40	46538.793	46526.106	-87	2148.745 ^B	4	6.380	6.647	...	
		1-1	2.21	35104.458	35094.886	12	2848.641 ^B	-1	6.417	6.770	...	
		2-1	2.09	34505.056	34495.647	-24	2898.126 ^B	2	6.410	6.770	...	
		3-2	2.27	34169.927	34160.609	-23	2926.550 ^D	2	6.398	6.761	...	
2544	$f^5F-s^6D6p^7F^o$	1-0	1.90	18631.994	18626.908	-24	5367.112 ^B	7	6.417	7.082	...	
		1-1	1.56	18450.426	18445.389	10	5419.929 ^A	-3	6.417	7.088	...	
		3-3	1.91	18440.467	18435.433	0	5422.856 ^D	0	6.398	7.070	...	
		3-2	1.84	18062.539	18057.608	-3	5536.320 ^A	1	6.398	7.084	...	
2545	$f^5F-s^6D6p^5F^o$	2-1	2.06	17119.022	17114.348	32	5841.455 ^A	-11	6.410	7.135	...	
		4-3	0.90	17000.583	16995.941	14	5882.151 ^A	-5	6.380	7.109	...	
2546	$f^5F-s^6D6p^5D^o$	2-3	1.28	18303.248	18298.251	17	5463.511 ^B	-5	6.410	7.088	...	I
		3-3	1.94	17971.305	17966.399	0	5564.426 ^D	0	6.398	7.088	...	
		1-0	1.54	17075.864	17071.201	3	5856.219 ^A	-1	6.417	7.143	...	
2547	$f^5F-s^6D_{4,5}4f [5.5]^o$	4-5	1.58	18905.643	18900.482	4	5289.426 ^A	-1	6.380	7.036	...	
	$f^5F-s^6D_{4,5}4f [4.5]^o$	4-5	1.48	18892.688	18887.531	4	5293.053 ^A	-1	6.380	7.036	...	
	$f^5F-s^6D_{4,5}4f [4.5]^o$	4-4	1.63	18891.956	18886.799	7	5293.258 ^A	-2	6.380	7.036	...	
	$f^5F-s^6D_{4,5}4f [3.5]^o$	4-4	1.49	18856.898	18851.751	-11	5303.099 ^A	3	6.380	7.038	...	
	$f^5F-s^6D_{4,5}4f [3.5]^o$	4-3	1.28	18852.341	18847.195	0	5304.381 ^B	0	6.380	7.038	...	
	$f^5F-s^6D_{4,5}4f [5.5]^o$	5-6	1.49	17712.570	17707.734	3	5645.708 ^A	-1	6.336	7.036	...	
	$f^5F-s^6D_{4,5}4f [5.5]^o$	5-5	1.70	17705.677	17700.843	0	5647.906 ^A	0	6.336	7.036	...	
	$f^5F-s^6D_{4,5}4f [4.5]^o$	5-5	1.97	17694.314	17689.483	3	5651.533 ^A	-1	6.336	7.036	...	
	$f^5F-s^6D_{4,5}4f [4.5]^o$	5-4	0.60	17693.662	17688.832	-3	5651.741 ^A	1	6.336	7.036	...	
	$f^5F-s^6D_{4,5}4f [6.5]^o$	5-6	2.75	17688.739	17683.910	-13	5653.314 ^A	4	6.336	7.037	...	
	$f^5F-s^6D_{4,5}4f [3.5]^o$	5-4	0.85	17662.923	17658.100	-9	5661.577 ^A	3	6.336	7.038	...	
2548	$f^5F-s^6D6p^5P^o$	1-2	1.77	17597.284	17592.479	3	5682.695 ^A	-1	6.417	7.121	...	I
		2-2	1.18	17445.372	17440.609	0	5732.179 ^A	0	6.410	7.121	...	
		3-2	0.90	17143.569	17138.888	-3	5833.091 ^D	1	6.398	7.121	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2549	$f^5F-s^6D_{3,5}4f$ [2.5] ^o	1-2	2.04	18525.695	18520.638	27	5397.908 ^D	-8	6.417	7.086	...	II
	$f^5F-s^6D_{3,5}4f$ [0.5] ^o	1-1	3.03	18516.780	18511.725	-34	5400.507 ^D	10	6.417	7.086	...	I
	$f^5F-s^6D_{3,5}4f$ [2.5] ^o	2-3	1.38	18366.049	18361.035	3	5444.829 ^A	-1	6.410	7.085	...	
	$f^5F-s^6D_{3,5}4f$ [2.5] ^o	2-2	0.95	18357.381	18352.370	-3	5447.400 ^A	1	6.410	7.086	...	
	$f^5F-s^6D_{3,5}4f$ [1.5] ^o	2-2	0.70	18351.135	18346.126	-3	5449.254 ^B	1	6.410	7.086	...	
	$f^5F-s^6D_{3,5}4f$ [3.5] ^o	3-4	2.56	18034.239	18029.315	0	5545.008 ^A	0	6.398	7.085	...	
	$f^5F-s^6D_{3,5}4f$ [2.5] ^o	3-2	1.11	18023.522	18018.601	19	5548.305 ^A	-6	6.398	7.086	...	
	$f^5F-s^6D_{3,5}4f$ [5.5] ^o	4-5	2.11	17586.709	17581.907	0	5686.112 ^A	0	6.380	7.085	...	
	$f^5F-s^6D_{3,5}4f$ [3.5] ^o	4-4	1.56	17582.600	17577.799	0	5687.441 ^A	0	6.380	7.085	...	
	$f^5F-s^6D_{3,5}4f$ [4.5] ^o	5-5	2.29	16549.192	16544.672	0	6042.591 ^A	0	6.336	7.085	...	
	$f^5F-s^6D_{3,5}4f$ [5.5] ^o	5-6	2.33	16546.486	16541.968	0	6043.579 ^A	0	6.336	7.085	...	
	$f^5F-s^6D_{3,5}4f$ [4.5] ^o	5-4	1.84	16545.391	16540.873	0	6043.979 ^A	0	6.336	7.085	...	
	$f^5F-s^6D_{3,5}4f$ [5.5] ^o	5-5	2.49	16543.713	16539.195	0	6044.592 ^A	0	6.336	7.085	...	
	$f^5F-s^6D_{3,5}4f$ [6.5] ^o	5-6	3.22	16528.985	16524.471	0	6049.978 ^A	0	6.336	7.086	...	
2550	$f^5F-s^6D_{2,5}4f$ [0.5] ^o	1-1	0.95	17646.123	17641.305	9	5666.967 ^A	-3	6.417	7.119	...	
	$f^5F-s^6D_{2,5}4f$ [1.5] ^o	1-2	1.81	17627.115	17622.302	-3	5673.078 ^A	1	6.417	7.120	...	
	$f^5F-s^6D_{2,5}4f$ [2.5] ^o	1-2	1.69	17616.125	17611.316	3	5676.617 ^A	-1	6.417	7.120	...	
	$f^5F-s^6D_{2,5}4f$ [0.5] ^o	2-1	2.01	17493.343	17488.567	-18	5716.460 ^D	6	6.410	7.119	...	I
	$f^5F-s^6D_{2,5}4f$ [1.5] ^o	2-1	1.15	17478.169	17473.397	-6	5721.423 ^B	2	6.410	7.120	...	
	$f^5F-s^6D_{2,5}4f$ [1.5] ^o	2-2	1.93	17474.690	17469.919	-3	5722.562 ^A	1	6.410	7.120	...	
	$f^5F-s^6D_{2,5}4f$ [2.5] ^o	2-3	1.97	17458.609	17453.842	0	5727.833 ^A	0	6.410	7.121	...	
	$f^5F-s^6D_{2,5}4f$ [3.5] ^o	2-3	2.20	17438.406	17433.644	6	5734.469 ^D	-2	6.410	7.121	...	II
	$f^5F-s^6D_{2,5}4f$ [2.5] ^o	3-3	1.38	17156.351	17151.667	-6	5828.745 ^A	2	6.398	7.121	...	
	$f^5F-s^6D_{2,5}4f$ [3.5] ^o	3-4	1.59	17141.785	17137.104	-6	5833.698 ^A	2	6.398	7.121	...	
	$f^5F-s^6D_{2,5}4f$ [4.5] ^o	3-4	1.34	17137.616	17132.937	6	5835.117 ^A	-2	6.398	7.121	...	
	$f^5F-s^6D_{2,5}4f$ [3.5] ^o	3-3	1.45	17136.844	17132.165	3	5835.380 ^A	-1	6.398	7.121	...	
	$f^5F-s^6D_{2,5}4f$ [5.5] ^o	4-5	2.75	16757.646	16753.070	-3	5967.425 ^A	1	6.380	7.120	...	
	$f^5F-s^6D_{2,5}4f$ [3.5] ^o	4-4	0.85	16733.251	16728.681	11	5976.125 ^B	-4	6.380	7.121	...	
	$f^5F-s^6D_{2,5}4f$ [4.5] ^o	4-5	1.53	16732.881	16728.311	-3	5976.257 ^D	1	6.380	7.121	...	I
	$f^5F-s^6D_{2,5}4f$ [4.5] ^o	4-4	1.93	16729.264	16724.696	6	5977.549 ^A	-2	6.380	7.121	...	
	$f^5F-s^6D_{2,5}4f$ [3.5] ^o	4-3	0.70	16728.534	16723.966	14	5977.810 ^A	-5	6.380	7.121	...	
	$f^5F-s^6D_{2,5}4f$ [5.5] ^o	5-6	1.90	15810.601	15806.282	2	6324.870 ^A	-1	6.336	7.120	...	
	$f^5F-s^6D_{2,5}4f$ [4.5] ^o	5-5	0.95	15785.980	15781.668	0	6334.735 ^A	0	6.336	7.121	...	
2551	$f^5F-s^6D_{1,5}4f$ [1.5] ^o	1-2	1.23	17052.298	17047.642	-12	5864.312 ^D	4	6.417	7.144	...	II
	$f^5F-s^6D_{1,5}4f$ [2.5] ^o	1-2	1.53	17012.137	17007.492	-3	5878.156 ^A	1	6.417	7.145	...	
	$f^5F-s^6D_{1,5}4f$ [2.5] ^o	2-3	1.59	16874.561	16869.953	0	5926.080 ^A	0	6.410	7.145	...	
	$f^5F-s^6D_{1,5}4f$ [2.5] ^o	2-2	1.60	16870.126	16865.519	3	5927.638 ^A	-1	6.410	7.145	...	
	$f^5F-s^6D_{1,5}4f$ [3.5] ^o	2-3	2.29	16842.496	16837.897	17	5937.362 ^A	-6	6.410	7.147	...	
	$f^5F-s^6D_{1,5}4f$ [4.5] ^o	3-4	2.55	16617.305	16612.766	0	6017.823 ^A	0	6.398	7.144	...	
	$f^5F-s^6D_{1,5}4f$ [2.5] ^o	3-3	1.51	16592.052	16587.521	22	6026.982 ^D	-8	6.398	7.145	...	II
	$f^5F-s^6D_{1,5}4f$ [3.5] ^o	3-4	2.26	16564.206	16559.682	0	6037.114 ^A	0	6.398	7.146	...	
	$f^5F-s^6D_{1,5}4f$ [3.5] ^o	3-3	1.26	16561.010	16556.487	0	6038.279 ^A	0	6.398	7.147	...	
	$f^5F-s^6D_{1,5}4f$ [4.5] ^o	4-5	3.02	16236.088	16231.653	3	6159.119 ^A	-1	6.380	7.144	...	
	$f^5F-s^6D_{1,5}4f$ [2.5] ^o	4-3	0.70	16208.976	16204.549	8	6169.421 ^A	-3	6.380	7.145	...	
	$f^5F-s^6D_{1,5}4f$ [3.5] ^o	4-4	2.12	16182.418	16177.998	3	6179.546 ^A	-1	6.380	7.146	...	
2552	$f^5F-s^6D_{0,5}4f$ [2.5] ^o	1-2	2.20	16697.640	16693.080	3	5988.870 ^A	-1	6.417	7.159	...	
	$f^5F-s^6D_{0,5}4f$ [2.5] ^o	2-3	2.14	16561.668	16557.145	-5	6038.039 ^A	2	6.410	7.159	...	
	$f^5F-s^6D_{0,5}4f$ [3.5] ^o	2-3	2.57	16556.518	16551.997	0	6039.917 ^A	0	6.410	7.159	...	
	$f^5F-s^6D_{0,5}4f$ [2.5] ^o	3-3	1.58	16289.435	16284.987	0	6138.948 ^A	0	6.398	7.159	...	
	$f^5F-s^6D_{0,5}4f$ [3.5] ^o	3-4	2.64	16289.221	16284.772	-3	6139.029 ^A	1	6.398	7.159	...	
2553	$f^5F-s^4D5p^5D^o$	3-3	0.48	15553.567	15549.319	22	6429.393 ^B	-9	6.398	7.195	...	
		4-3	1.04	15216.454	15212.297	5	6571.833 ^A	-2	6.380	7.195	...	
		5-4	0.85	15013.588	15009.486	-5	6660.633 ^A	2	6.336	7.162	...	
2554	$f^5F-Hsp1^3G^o$	2-3	1.51	14502.586	14498.622	13	6895.322 ^D	-6	6.410	7.265	...	II
		5-4	1.15	13828.538	13824.758	-2	7231.422 ^A	1	6.336	7.232	...	
2555	$f^5F-s^4D5p^3D^o$	2-2	1.72	15558.773	15554.522	-19	6427.242 ^D	8	6.410	7.207	...	I
		4-3	1.60	14674.418	14670.408	17	6814.580 ^A	-8	6.380	7.225	...	

TABLE 2—*Continued*

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2556	$f^5F-s^4D5p^5F^o$	4-5	0.85	14958.118	14954.031	4	6685.333 ^A	-2	6.380	7.209	...	
		5-5	0.48	14196.850	14192.970	-2	7043.816 ^B	1	6.336	7.209	...	
2557	$f^5F-s^6D_{4.5}5f [6.5]^o$	5-6	2.20	12235.879	12232.532	9	8172.686 ^A	-6	6.336	7.349	...	
2558	$f^5F-s^6D_{3.5}5f [5.5]^o$	4-5	1.04	12191.729	12188.393	15	8202.282 ^B	-10	6.380	7.397	...	
	$f^5F-s^6D_{3.5}5f [5.5]^o$	5-5	1.87	11681.196	11677.999	7	8560.767 ^A	-5	6.336	7.397	...	
	$f^5F-s^6D_{3.5}5f [6.5]^o$	5-6	2.24	11672.836	11669.642	-8	8566.898 ^D	6	6.336	7.398	...	I
2559	$e^5S-s^6D6p^7F^o$	2-2	1.92	16690.277	16685.719	0	5991.512 ^A	0	6.341	7.084	...	
2560	$e^5S-s^6D6p^5D^o$	2-2	1.90	15956.995	15952.636	3	6266.844 ^A	-1	6.341	7.118	...	
2561	$e^5S-s^6D_{4.5}4f [3.5]^o$	2-3	1.48	17802.644	17797.784	-3	5617.143 ^A	1	6.341	7.038	...	
	$e^5S-s^6D_{4.5}4f [2.5]^o$	2-3	1.11	17767.187	17762.336	-9	5628.353 ^B	3	6.341	7.039	...	
	$e^5S-s^6D_{4.5}4f [2.5]^o$	2-2	1.85	17760.017	17755.168	6	5630.625 ^A	-2	6.341	7.040	...	
	$e^5S-s^6D_{4.5}4f [1.5]^o$	2-2	1.20	17728.013	17723.173	-6	5640.790 ^A	2	6.341	7.041	...	
	$e^5S-s^6D_{4.5}4f [1.5]^o$	2-1	1.99	17721.978	17717.139	0	5642.711 ^A	0	6.341	7.041	...	
2562	$e^5S-s^6D6p^5P^o$	2-2	2.26	15902.594	15898.251	0	6288.282 ^A	0	6.341	7.121	...	
2563	$e^5S-s^6D_{3.5}4f [3.5]^o$	2-3	1.51	16664.464	16659.913	-6	6000.793 ^A	2	6.341	7.085	...	
	$e^5S-s^6D_{3.5}4f [2.5]^o$	2-3	2.28	16664.069	16659.519	-3	6000.935 ^A	1	6.341	7.085	...	
	$e^5S-s^6D_{3.5}4f [1.5]^o$	2-1	2.08	16657.352	16652.803	0	6003.355 ^A	0	6.341	7.086	...	
2564	$e^5S-s^6D_{2.5}4f [0.5]^o$	2-1	1.68	15942.466	15938.112	8	6272.555 ^A	-3	6.341	7.119	...	
	$e^5S-s^6D_{2.5}4f [1.5]^o$	2-2	1.46	15926.957	15922.607	3	6278.663 ^A	-1	6.341	7.120	...	
	$e^5S-s^6D_{2.5}4f [2.5]^o$	2-2	1.58	15917.977	15913.629	0	6282.205 ^A	0	6.341	7.120	...	
	$e^5S-s^6D_{2.5}4f [2.5]^o$	2-3	1.93	15913.590	15909.243	0	6283.937 ^D	0	6.341	7.121	...	II
	$e^5S-s^6D_{2.5}4f [3.5]^o$	2-3	1.78	15896.810	15892.468	13	6290.570 ^A	-5	6.341	7.121	...	
2565	$e^5S-s^6D_{2.5}4f [0.5]^o$	2-1	1.08	15460.493	15456.269	-5	6468.099 ^A	2	6.341	7.143	...	
	$e^5S-s^6D_{1.5}4f [1.5]^o$	2-2	1.58	15456.175	15451.952	-26	6469.906 ^D	11	6.341	7.144	...	I
	$e^5S-s^6D_{1.5}4f [2.5]^o$	2-3	1.59	15426.899	15422.685	-2	6482.184 ^A	1	6.341	7.145	...	
2566	$e^5S-s^6D_{0.5}4f [2.5]^o$	2-3	1.40	15164.970	15160.827	-7	6594.144 ^D	3	6.341	7.159	...	I
2567	$e^3D-s^6D6p^7F^o$	2-2	3.03	18516.780	18511.725	-17	5400.507 ^D	5	6.415	7.084	...	I
		2-1	1.83	18400.956	18395.933	27	5434.500 ^D	-8	6.415	7.088	...	I
		3-2	1.08	17105.122	17100.451	0	5846.202 ^A	0	6.359	7.084	...	
2568	$e^3D-s^6D6p^7P^o$	3-2	0.95	16960.682	16956.051	3	5895.989 ^A	-1	6.359	7.090	...	
2569	$e^3D-u^3F^o$	3-4	1.08	18873.340	18868.189	11	5298.479 ^A	-3	6.359	7.016	...	
		3-3	0.70	18217.929	18212.955	7	5489.098 ^A	-2	6.359	7.040	...	
		3-2	1.94	17971.305	17966.399	16	5564.426 ^D	-5	6.359	7.049	...	I
2570	$e^3D-s^6D6p^5F^o$	2-3	1.56	17844.705	17839.833	10	5603.903 ^D	-3	6.415	7.109	...	II
		3-4	1.56	17330.647	17325.915	-3	5770.125 ^A	1	6.359	7.075	...	
		2-2	0.48	17145.047	17140.366	9	5832.588 ^D	-3	6.415	7.138	...	II
		3-3	1.68	16530.010	16525.496	8	6049.603 ^A	-3	6.359	7.109	...	
2571	$e^3D-s^6D6p^5D^o$	1-1	2.87	18652.380	18647.288	17	5361.246 ^D	-5	6.452	7.117	...	Ne
		3-3	1.46	17023.275	17018.627	0	5874.310 ^B	0	6.359	7.088	...	
2572	$e^3D-Dsp1^3D^o$	1-2	1.77	19860.882	19855.461	-8	5035.023 ^A	2	6.452	7.076	...	
		3-3	1.52	16523.662	16519.150	-3	6051.927 ^A	1	6.359	7.110	...	
2573	$e^3D-t^3F^o$	2-3	1.38	16946.053	16941.425	3	5901.079 ^A	-1	6.415	7.146	...	
		2-2	1.20	16753.727	16749.152	-6	5968.821 ^A	2	6.415	7.155	...	
		3-3	1.90	15756.026	15751.722	2	6346.778 ^A	-1	6.359	7.146	...	
		3-2	0.48	15589.645	15585.387	12	6414.514 ^A	-5	6.359	7.155	...	
2574	$e^3D-s^4D5p^5D^o$	1-1	1.65	15431.836	15427.621	-2	6480.110 ^A	1	6.452	7.255	...	
		2-2	0.90	15173.014	15168.869	-2	6590.648 ^A	1	6.415	7.232	...	
		3-3	1.08	14838.369	14834.315	0	6739.285 ^A	0	6.359	7.195	...	
2575	$e^3D-s^4D5p^3F^o$	3-4	3.08	15098.824	15094.699	2	6623.032 ^A	-1	6.359	7.181	...	
		1-2	1.60	14446.474	14442.526	-2	6922.104 ^A	1	6.452	7.310	...	
		2-2	1.75	13846.436	13842.651	0	7222.075 ^A	0	6.415	7.310	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2576	$e^3D-s^4D5p^3P^o$	1-2	1.32	16779.742	16775.160	3	5959.567 ^A	-1	6.452	7.191	...	
		2-2	2.29	15975.617	15971.253	3	6259.539 ^A	-1	6.415	7.191	...	
		3-2	2.08	14913.711	14909.636	2	6705.239 ^A	-1	6.359	7.191	...	
2577	$e^3D-Hsp1^3G^o$	3-3	0.60	13687.164	13683.423	13	7306.115 ^A	-7	6.359	7.265	...	
2578	$e^3D-s^4D5p^3D^o$	1-2	0.90	16413.984	16409.501	-30	6092.366 ^B	11	6.452	7.207	...	
		1-1	1.94	15735.713	15731.414	0	6354.971 ^A	0	6.452	7.240	...	
		2-2	1.76	15643.755	15639.482	2	6392.327 ^A	-1	6.415	7.207	...	
		2-3	2.52	15299.077	15294.897	-5	6536.342 ^A	2	6.415	7.225	...	
		2-1	2.07	15026.427	15022.321	0	6654.942 ^A	0	6.415	7.240	...	
		3-2	2.18	14624.101	14620.105	0	6838.027 ^A	0	6.359	7.207	...	
		3-3	2.26	14322.463	14318.549	0	6982.039 ^A	0	6.359	7.225	...	
2579	$e^3D-s^4D5p^5F^o$	1-1	1.26	14414.187	14410.248	-2	6937.609 ^A	1	6.452	7.312	...	
		2-2	0.90	13954.408	13950.594	0	7166.194 ^A	0	6.415	7.303	...	
2580	$e^3D-s^4D5p^5P^o$	1-2	1.18	14153.470	14149.602	-4	7065.405 ^B	2	6.452	7.328	...	
		2-2	1.11	13577.056	13573.344	13	7365.367 ^B	-7	6.415	7.328	...	
		3-3	0.85	13549.693	13545.988	-7	7380.241 ^B	4	6.359	7.274	...	
2581	$g^5D-s^6D6p^7F^o$	4-5	1.82	19408.189	19402.892	0	5152.464 ^D	0	6.366	7.005	...	I
		3-2	1.65	18622.442	18617.358	3	5369.865 ^A	-1	6.419	7.084	...	
		4-4	1.52	18497.243	18492.193	-3	5406.211 ^D	1	6.366	7.037	...	I
2582	$g^5D-s^6D6p^7P^o$	3-2	1.78	18451.369	18446.332	7	5419.652 ^A	-2	6.419	7.090	...	
		4-3	1.82	18057.288	18052.358	-3	5537.930 ^A	1	6.366	7.053	...	
2583	$g^5D-s^6D6p^5F^o$	0-1	1.28	18906.690	18901.529	4	5289.133 ^A	-1	6.479	7.135	...	
		3-4	2.00	18890.068	18884.912	4	5293.787 ^A	-1	6.419	7.075	...	
		2-3	1.56	18889.305	18884.148	11	5294.001 ^A	-3	6.453	7.109	...	
		4-5	1.94	18667.899	18662.803	7	5356.789 ^A	-2	6.366	7.031	...	
		1-2	1.86	18663.095	18658.000	-3	5358.168 ^A	1	6.474	7.138	...	
2584	$g^5D-s^6D6p^5D^o$	1-2	0.70	19225.552	19220.304	0	5201.411 ^B	0	6.474	7.118	...	
		2-1	1.60	18686.971	18681.870	-7	5351.322 ^A	2	6.453	7.117	...	
		2-2	0.90	18636.095	18631.007	7	5365.931 ^A	-2	6.453	7.118	...	
		4-4	2.11	18580.995	18575.923	-3	5381.843 ^A	1	6.366	7.034	...	
2585	$g^5D-s^6D6p^5P^o$	3-3	1.38	19604.817	19599.467	-4	5100.787 ^B	1	6.419	7.051	...	
		0-1	1.15	18234.449	18229.471	0	5484.125 ^A	0	6.479	7.159	...	
		4-3	1.72	18113.146	18108.201	-3	5520.852 ^A	1	6.366	7.051	...	
2586	$g^5D-Dsp1^3D^o$	2-2	0.30	19900.168	19894.737	28	5025.083 ^D	-7	6.453	7.076	...	I
		2-3	1.46	18881.020	18875.866	-4	5296.324 ^A	1	6.453	7.110	...	
2587	$g^5D-s^6D_{2,5}4f [0.5]^o$	1-1	2.40	19204.429	19199.187	-37	5207.132 ^A	10	6.474	7.119	...	
	$g^5D-s^6D_{2,5}4f [3.5]^o$	2-3	1.54	18554.042	18548.977	3	5389.661 ^A	-1	6.453	7.121	...	
	$g^5D-s^6D_{2,5}4f [5.5]^o$	4-5	1.86	16451.140	16446.647	-5	6078.606 ^D	2	6.366	7.120	...	II
	$g^5D-s^6D_{2,5}4f [3.5]^o$	4-4	1.20	16427.617	16423.131	-5	6087.310 ^A	2	6.366	7.121	...	
	$g^5D-s^6D_{2,5}4f [4.5]^o$	4-5	1.59	16427.280	16422.793	0	6087.435 ^A	0	6.366	7.121	...	
	$g^5D-s^6D_{2,5}4f [4.5]^o$	4-4	1.43	16423.762	16419.276	-27	6088.739 ^A	10	6.366	7.121	...	
2588	$g^5D-Psp1^3D^o$	3-3	1.00	17257.005	17252.293	-3	5794.748 ^A	1	6.419	7.137	...	
		4-3	0.85	16090.588	16086.193	-3	6214.813 ^A	1	6.366	7.137	...	
2589	$g^5D-s^6D_{1,5}4f [2.5]^o$	2-2	1.08	17912.068	17907.178	3	5582.828 ^A	-1	6.453	7.145	...	
	$g^5D-s^6D_{1,5}4f [3.5]^o$	2-3	1.73	17880.905	17876.023	0	5592.558 ^A	0	6.453	7.147	...	
	$g^5D-s^6D_{1,5}4f [1.5]^o$	3-2	1.45	17099.120	17094.451	-20	5848.254 ^D	7	6.419	7.144	...	I
	$g^5D-s^6D_{1,5}4f [4.5]^o$	4-5	1.78	15948.207	15943.851	3	6270.297 ^A	-1	6.366	7.144	...	
2590	$g^5D-s^6D_{0,5}4f [3.5]^o$	2-3	1.97	17558.929	17554.135	0	5695.108 ^A	0	6.453	7.159	...	
2591	$g^5D-s^4D5p^5D^o$	2-3	1.60	16712.120	16707.557	0	5983.681 ^A	0	6.453	7.195	...	
		3-4	1.59	16685.393	16680.836	0	5993.266 ^A	0	6.419	7.162	...	
		1-2	1.72	16349.959	16345.494	-3	6116.223 ^A	1	6.474	7.232	...	
		0-1	1.52	15967.663	15963.302	-3	6262.657 ^A	1	6.479	7.255	...	
		3-3	2.43	15966.921	15962.560	0	6262.948 ^A	0	6.419	7.195	...	
		2-2	2.00	15921.680	15917.331	0	6280.744 ^A	0	6.453	7.232	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		1-1	1.73	15858.770	15854.438	-5	6305.659 ^A	2	6.474	7.255	...	Ne
		4-4	2.89	15592.523	15588.264	0	6413.330 ^A	0	6.366	7.162	...	
		2-1	3.05	15455.530	15451.308	2	6470.176 ^D	-1	6.453	7.255	...	
		3-2	2.40	15243.879	15239.714	0	6560.010 ^A	0	6.419	7.232	...	
		4-3	2.47	14963.312	14959.224	2	6683.012 ^A	-1	6.366	7.195	...	
2592	$g^5D-s^4D5p^3F^o$	2-2	1.23	14467.234	14463.281	0	6912.171 ^A	0	6.453	7.310	...	
		2-3	1.75	14204.945	14201.062	2	7039.802 ^A	-1	6.453	7.326	...	
2593	$g^5D-s^4D5p^3P^o$	2-2	1.28	16807.756	16803.166	6	5949.634 ^B	-2	6.453	7.191	...	
2594	$g^5D-s^4D5p^3D^o$	1-2	0.78	16897.903	16893.288	23	5917.894 ^B	-8	6.474	7.207	...	
		0-1	1.38	16293.231	16288.781	-3	6137.518 ^A	1	6.479	7.240	...	
		2-3	0.00	16060.554	16056.168	0	6226.435 ^B	0	6.453	7.225	...	
		2-1	1.34	15760.344	15756.039	0	6345.039 ^D	0	6.453	7.240	...	II
		3-2	1.00	15719.103	15714.809	10	6361.686 ^A	-4	6.419	7.207	...	
2595	$g^5D-s^4D5p^5F^o$	3-3	0.60	15371.126	15366.927	-7	6505.704 ^A	3	6.419	7.225	...	
		4-3	0.90	14438.846	14434.900	10	6925.761 ^B	-5	6.366	7.225	...	
		1-2	2.29	14943.727	14939.644	-4	6691.771 ^A	2	6.474	7.303	...	
		2-3	2.36	14908.008	14903.935	0	6707.804 ^A	0	6.453	7.285	...	
		3-4	2.64	14901.481	14897.410	0	6710.742 ^A	0	6.419	7.251	...	
		0-1	2.10	14880.609	14876.543	2	6720.155 ^A	-1	6.479	7.312	...	
		1-1	1.98	14785.996	14781.956	-2	6763.156 ^A	1	6.474	7.312	...	
		4-5	2.94	14713.427	14709.406	0	6796.513 ^A	0	6.366	7.209	...	
		2-2	1.91	14585.143	14581.157	0	6856.292 ^A	0	6.453	7.303	...	
		3-3	1.15	14312.155	14308.243	4	6987.068 ^A	-2	6.419	7.285	...	
		4-4	1.61	14023.660	14019.827	2	7130.806 ^A	-1	6.366	7.251	...	
		4-3	1.32	13500.498	13496.807	2	7407.134 ^A	-1	6.366	7.285	...	
		1-2	1.68	14511.783	14507.817	-4	6890.952 ^A	2	6.474	7.328	...	
		3-3	2.33	14484.560	14480.602	-4	6903.903 ^A	2	6.419	7.274	...	
		2-2	1.93	14173.394	14169.520	-2	7055.473 ^A	1	6.453	7.328	...	
		0-1	1.53	14078.849	14075.001	-4	7102.853 ^A	2	6.479	7.359	...	
		1-1	1.71	13994.126	13990.301	-6	7145.855 ^A	3	6.474	7.359	...	
		2-1	1.41	13679.190	13675.451	0	7310.374 ^A	0	6.453	7.359	...	
		4-3	2.06	13653.798	13650.066	-6	7323.969 ^A	3	6.366	7.274	...	
		3-2	2.14	13633.752	13630.025	0	7334.738 ^A	0	6.419	7.328	...	
2597	$g^5D-^4F_{4,5}4f [2.5]^o$	2-3	1.45	14994.259	14990.162	-7	6669.219 ^B	3	6.453	7.280	...	II
	$g^5D-^4F_{4,5}4f [3.5]^o$	3-4	1.88	14407.795	14403.858	4	6940.687 ^B	-2	6.419	7.279	...	
	$g^5D-^4F_{4,5}4f [2.5]^o$	3-3	2.25	14391.624	14387.691	-8	6948.486 ^D	4	6.419	7.280	...	
	$g^5D-^4F_{4,5}4f [4.5]^o$	4-5	0.60	13592.681	13588.965	-18	7356.900 ^A	10	6.366	7.279	...	
	$g^5D-^4F_{4,5}4f [3.5]^o$	4-4	0.95	13585.566	13581.852	2	7360.753 ^B	-1	6.366	7.279	...	
2598	$e^7S-s^6D_{3,5}4f [3.5]^o$	3-4	1.67	17924.301	17919.407	-13	5579.018 ^A	4	6.394	7.085	...	
	$e^7S-s^6D_{3,5}4f [3.5]^o$	3-3	1.15	17922.428	17917.535	10	5579.601 ^A	-3	6.394	7.085	...	
	$e^7S-s^6D_{3,5}4f [2.5]^o$	3-2	0.95	17913.705	17908.814	-6	5582.318 ^A	2	6.394	7.086	...	
2599	$e^7S-s^6D_{2,5}4f [2.5]^o$	3-3	2.00	17056.841	17052.184	0	5862.750 ^A	0	6.394	7.121	...	
	$e^7S-s^6D_{2,5}4f [3.5]^o$	3-4	2.24	17042.446	17037.793	0	5867.702 ^A	0	6.394	7.121	...	
	$e^7S-s^6D_{2,5}4f [4.5]^o$	3-4	1.79	17038.317	17033.665	3	5869.124 ^A	-1	6.394	7.121	...	
2600	$e^7S-s^6D_{1,5}4f [4.5]^o$	3-4	2.24	16523.930	16519.417	3	6051.829 ^A	-1	6.394	7.144	...	II
	$e^7S-s^6D_{1,5}4f [2.5]^o$	3-3	2.13	16498.941	16494.435	3	6060.995 ^D	-1	6.394	7.145	...	
	$e^7S-s^6D_{1,5}4f [3.5]^o$	3-4	2.58	16471.425	16466.927	0	6071.120 ^A	0	6.394	7.146	...	
2601	$e^7S-s^6D_{0,5}4f [2.5]^o$	3-3	2.07	16199.678	16195.254	-21	6172.962 ^D	8	6.394	7.159	...	II
	$e^7S-s^6D_{0,5}4f [3.5]^o$	3-4	2.70	16199.487	16195.062	-3	6173.035 ^A	1	6.394	7.159	...	
	$e^7S-s^6D_{0,5}4f [2.5]^o$	3-2	0.30	16198.893	16194.469	26	6173.261 ^B	-10	6.394	7.159	...	
	$e^7S-s^6D_{0,5}4f [3.5]^o$	3-3	0.48	16194.746	16190.323	-21	6174.842 ^B	8	6.394	7.159	...	
2602	$u^5P^o-s^6D6s^5D$	3-4	2.68	35869.421	35859.640	13	2787.890 ^A	-1	6.409	6.754	...	
		2-3	2.25	34246.047	34236.709	0	2920.045 ^A	0	6.440	6.802	...	
		3-3	2.25	31517.713	31509.118	10	3172.819 ^A	-1	6.409	6.802	...	
		2-2	2.44	31354.026	31345.476	0	3189.383 ^A	0	6.440	6.836	...	
		1-1	2.27	31298.659	31290.124	0	3195.025 ^B	0	6.461	6.857	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
		1-0	2.30	30488.557	30480.243	-19	3279.919 ^A	2	6.461	6.867	...	
		2-1	2.59	29754.448	29746.334	0	3360.842 ^A	0	6.440	6.857	...	
		3-2	2.95	29051.551	29043.628	-8	3442.157 ^A	1	6.409	6.836	...	
2603	$u^5P^o-^4F6s^5F$	3-4	2.26	20728.795	20723.138	-4	4824.207 ^D	1	6.409	7.007	...	II
2604	$u^5P^o-s^6D5d^5D$	3-2	1.69	20887.929	20882.229	-9	4787.454 ^C	2	6.409	7.002	...	
2605	$u^5P^o-s^6D5d^5G$	3-4	1.67	20075.749	20070.270	0	4981.134 ^B	0	6.409	7.026	...	
		2-3	2.03	19566.289	19560.949	-4	5110.831 ^A	1	6.440	7.074	...	
		3-3	1.71	18644.173	18639.083	-7	5363.606 ^A	2	6.409	7.074	...	
2606	$u^5P^o-s^6D5d^7F$	2-3	0.85	19457.157	19451.846	-4	5139.497 ^B	1	6.440	7.077	...	
		3-4	1.49	17808.455	17803.593	-6	5615.310 ^A	2	6.409	7.105	...	
2607	$u^5P^o-s^6D5d^7D$	3-2	0.70	19414.471	19409.172	8	5150.797 ^B	-2	6.409	7.047	...	
		3-3	2.25	18593.031	18587.956	3	5378.359 ^A	-1	6.409	7.076	...	
2608	$u^5P^o-s^6D5d^7P$	3-3	2.39	20964.360	20958.639	22	4770.000 ^A	-5	6.409	7.000	...	
		3-4	1.82	19408.189	19402.892	0	5152.464 ^D	0	6.409	7.048	...	I
2609	$u^5P^o-s^6D5d^7G$	1-1	1.08	19194.771	19189.532	-29	5209.752 ^D	8	6.461	7.107	...	II
		1-2	1.28	18726.381	18721.269	4	5340.060 ^A	-1	6.461	7.123	...	
		3-4	1.73	18302.133	18297.136	7	5463.844 ^A	-2	6.409	7.086	...	
		3-3	1.00	17638.675	17633.859	-19	5669.360 ^B	6	6.409	7.112	...	
2610	$u^5P^o-s^6D5d^5S$	3-2	1.26	19887.053	19881.625	0	5028.397 ^A	0	6.409	7.032	...	
2611	$u^5P^o-s^6D5d^5F$	2-3	1.57	20911.288	20905.582	0	4782.106 ^B	0	6.440	7.033	...	
		1-1	1.57	20131.900	20126.405	0	4967.241 ^C	0	6.461	7.077	...	
		3-2	1.28	19010.676	19005.487	-4	5260.202 ^A	1	6.409	7.061	...	
2612	$u^5P^o-^4F6s^3F$	2-3	2.00	18960.793	18955.617	0	5274.041 ^A	0	6.440	7.094	...	
2613	$u^5P^o-s^6D5d^5P$	2-3	1.57	19174.139	19168.905	-4	5215.358 ^D	1	6.440	7.087	...	II
		1-2	2.15	18894.523	18889.365	-25	5292.539 ^A	7	6.461	7.117	...	
2614	$u^5P^o-s^4D4d^5F$	2-3	0.70	16162.146	16157.732	-3	6187.297 ^B	1	6.440	7.207	...	
		1-1	1.83	15992.796	15988.428	18	6252.815 ^A	-7	6.461	7.236	...	
2615	$u^5P^o-i^5D$	1-2	1.08	17054.555	17049.898	-6	5863.536 ^B	2	6.461	7.188	...	
		3-4	1.28	16651.455	16646.908	3	6005.481 ^A	-1	6.409	7.153	...	
2616	$u^5P^o-s^6D7s^7D$	2-3	0.70	15300.994	15296.814	0	6535.523 ^A	0	6.440	7.250	...	
		1-1	1.34	15039.900	15035.791	-7	6648.980 ^A	3	6.461	7.285	...	
		3-2	0.78	14302.464	14298.555	-20	6991.802 ^D	10	6.409	7.276	...	I
2617	$u^5P^o-s^4D4d^5P$	3-2	0.78	15334.807	15330.618	2	6521.112 ^A	-1	6.409	7.217	...	
2618	$u^5P^o-s^6D7s^5D$	3-3	2.88	14143.381	14139.515	-2	7070.445 ^A	1	6.409	7.285	...	
2619	$u^5P^o-58661^e$	3-4	0.60	14347.257	14343.337	-12	6969.973 ^A	6	6.409	7.273	...	
2620	$e^5P-Dsp3^5D^o$	3-3	2.65	48678.737	48665.467	24	2054.285 ^A	-1	6.427	6.681	...	
2621	$e^5P-t^5P^o$	2-1	2.57	45380.431	45368.059	-41	2203.593 ^D	2	6.455	6.729	...	II
		3-2	2.54	43956.275	43944.292	39	2274.988 ^A	-2	6.427	6.709	...	
2622	$e^5P-s^6D6p^7F^o$	3-2	1.65	18856.596	18851.449	4	5303.184 ^A	-1	6.427	7.084	...	
2623	$e^5P-s^6D6p^5F^o$	2-3	0.30	18952.456	18947.282	-14	5276.361 ^B	4	6.455	7.109	...	
		2-2	2.23	18165.145	18160.186	-20	5505.048 ^A	6	6.455	7.138	...	
2624	$e^5P-s^6D6p^5D^o$	3-3	2.04	18757.175	18752.055	-7	5331.293 ^A	2	6.427	7.088	...	
		1-0	1.53	17885.728	17880.845	-3	5591.050 ^A	1	6.449	7.143	...	
2625	$e^5P-s^6D_{4,5}4f [3.5]^o$	2-3	1.15	21283.007	21277.200	-5	4698.584 ^B	1	6.455	7.038	...	
	$e^5P-s^6D_{4,5}4f [2.5]^o$	2-2	1.62	21222.113	21216.322	9	4712.066 ^B	-2	6.455	7.040	...	
	$e^5P-s^6D_{4,5}4f [1.5]^o$	2-1	1.68	21167.811	21162.034	-9	4724.154 ^A	2	6.455	7.041	...	
	$e^5P-s^6D_{4,5}4f [4.5]^o$	3-4	1.84	20334.746	20329.197	4	4917.691 ^A	-1	6.427	7.036	...	
	$e^5P-s^6D_{4,5}4f [3.5]^o$	3-4	1.20	20294.131	20288.592	-25	4927.533 ^D	6	6.427	7.038	...	I
	$e^5P-s^6D_{4,5}4f [3.5]^o$	3-3	1.94	20288.856	20283.319	0	4928.814 ^A	0	6.427	7.038	...	
	$e^5P-s^6D_{4,5}4f [2.5]^o$	3-3	1.46	20242.804	20237.279	-20	4940.027 ^B	5	6.427	7.039	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2626	$e^5P-s^6D_{4.5}4f$ [2.5] ^o	3-2	1.81	20233.502	20227.980	0	4942.298 ^A	0	6.427	7.040	...	
	$e^5P-s^6D6p^5P^o$	1-2	1.92	18458.616	18453.577	0	5417.524 ^A	0	6.449	7.121	...	
		3-2	1.11	17857.295	17852.420	6	5599.952 ^A	-2	6.427	7.121	...	
2627	$e^5P-s^6D_{3.5}4f$ [2.5] ^o	2-2	0.60	19665.892	19660.524	-8	5084.946 ^B	2	6.455	7.086	...	
	$e^5P-s^6D_{3.5}4f$ [1.5] ^o	1-1	1.26	19483.306	19477.988	-8	5132.599 ^A	2	6.449	7.086	...	
	$e^5P-s^6D_{3.5}4f$ [2.5] ^o	1-2	1.28	19482.752	19477.434	-4	5132.745 ^A	1	6.449	7.086	...	
	$e^5P-s^6D_{3.5}4f$ [1.5] ^o	1-2	1.81	19475.717	19470.401	-4	5134.599 ^A	1	6.449	7.086	...	
	$e^5P-s^6D_{3.5}4f$ [0.5] ^o	1-0	1.66	19468.930	19463.616	0	5136.389 ^A	0	6.449	7.086	...	
	$e^5P-s^6D_{3.5}4f$ [4.5] ^o	3-4	1.77	18832.640	18827.499	4	5309.930 ^A	-1	6.427	7.085	...	
	$e^5P-s^6D_{3.5}4f$ [3.5] ^o	3-4	2.04	18825.747	18820.608	0	5311.874 ^A	0	6.427	7.085	...	
	$e^5P-s^6D_{3.5}4f$ [3.5] ^o	3-3	1.26	18823.671	18818.532	11	5312.460 ^A	-3	6.427	7.085	...	
	$e^5P-s^6D_{3.5}4f$ [2.5] ^o	3-3	1.56	18823.157	18818.019	4	5312.605 ^A	-1	6.427	7.085	...	
2628	$e^5P-s^6D_{2.5}4f$ [1.5] ^o	2-2	1.00	18656.350	18651.258	0	5360.105 ^A	0	6.455	7.120	...	
	$e^5P-s^6D_{2.5}4f$ [3.5] ^o	2-3	2.51	18615.002	18609.921	14	5372.011 ^A	-4	6.455	7.121	...	
	$e^5P-s^6D_{2.5}4f$ [1.5] ^o	1-2	2.40	18491.462	18486.414	17	5407.901 ^A	-5	6.449	7.120	...	
	$e^5P-s^6D_{2.5}4f$ [2.5] ^o	1-2	2.26	18479.359	18474.314	7	5411.443 ^A	-2	6.449	7.120	...	
	$e^5P-s^6D_{2.5}4f$ [2.5] ^o	3-3	0.95	17871.165	17866.286	6	5595.606 ^A	-2	6.427	7.121	...	
	$e^5P-s^6D_{2.5}4f$ [4.5] ^o	3-4	2.88	17850.840	17845.967	19	5601.977 ^D	-6	6.427	7.121	...	I
	$e^5P-s^6D_{2.5}4f$ [3.5] ^o	3-3	2.08	17849.986	17845.113	6	5602.245 ^A	-2	6.427	7.121	...	
	$e^5P-s^6D_{1.5}4f$ [2.5] ^o	2-3	1.48	17973.899	17968.992	6	5563.623 ^A	-2	6.455	7.145	...	
	$e^5P-s^6D_{1.5}4f$ [2.5] ^o	2-2	1.91	17968.880	17963.974	23	5565.177 ^A	-7	6.455	7.145	...	
2629	$e^5P-s^6D_{1.5}4f$ [3.5] ^o	2-3	2.33	17937.502	17932.605	3	5574.912 ^A	-1	6.455	7.147	...	
	$e^5P-s^6D_{1.5}4f$ [1.5] ^o	1-2	0.70	17859.885	17855.009	-13	5599.140 ^D	4	6.449	7.144	...	II
	$e^5P-s^6D_{1.5}4f$ [2.5] ^o	1-2	2.16	17815.832	17810.968	-6	5612.985 ^A	2	6.449	7.145	...	
	$e^5P-s^6D_{1.5}4f$ [4.5] ^o	3-4	2.42	17287.020	17282.299	3	5784.687 ^D	-1	6.427	7.144	...	II
	$e^5P-s^6D_{1.5}4f$ [2.5] ^o	3-3	1.46	17259.668	17254.955	6	5793.854 ^B	-2	6.427	7.145	...	
	$e^5P-s^6D_{1.5}4f$ [3.5] ^o	3-3	1.77	17226.104	17221.400	0	5805.143 ^A	0	6.427	7.147	...	
	$e^5P-s^6D_{0.5}4f$ [2.5] ^o	2-3	1.38	17619.338	17614.527	0	5675.582 ^D	0	6.455	7.159	...	I
	$e^5P-s^6D_{0.5}4f$ [2.5] ^o	2-2	0.78	17618.354	17613.544	3	5675.899 ^B	-1	6.455	7.159	...	
	$e^5P-s^6D_{0.5}4f$ [3.5] ^o	2-3	2.49	17613.507	17608.698	3	5677.461 ^A	-1	6.455	7.159	...	
2630	$e^5P-s^6D_{0.5}4f$ [2.5] ^o	1-2	2.24	17471.216	17466.445	0	5723.700 ^A	0	6.449	7.159	...	
	$e^5P-s^6D_{0.5}4f$ [2.5] ^o	3-3	1.46	16932.469	16927.845	-3	5905.813 ^B	1	6.427	7.159	...	
	$e^5P-s^6D_{0.5}4f$ [3.5] ^o	3-4	2.14	16932.237	16927.613	-3	5905.894 ^A	1	6.427	7.159	...	
	$e^5P-s^4D5p^5D^o$	2-3	0.60	16761.548	16756.970	0	5966.036 ^A	0	6.455	7.195	...	
		3-3	0.70	16138.746	16134.338	-3	6196.268 ^B	1	6.427	7.195	...	
		2-2	1.53	15966.539	15962.178	0	6263.098 ^A	0	6.455	7.232	...	
		2-1	1.61	15497.789	15493.556	0	6452.533 ^A	0	6.455	7.255	...	
		3-2	0.78	15400.432	15396.225	9	6493.324 ^A	-4	6.427	7.232	...	
	$e^5P-s^4D5p^3D^o$	2-1	0.85	15804.302	15799.985	5	6327.391 ^A	-2	6.455	7.240	...	
2632	$e^5P-s^4D5p^3F^o$	3-4	1.18	15051.051	15046.939	16	6644.054 ^D	-7	6.427	7.251	...	II
2633		2-3	1.88	14947.330	14943.246	0	6690.158 ^A	0	6.455	7.285	...	
		2-2	1.52	14622.779	14618.784	2	6838.645 ^D	-1	6.455	7.303	...	II
	$e^5P-s^4D5p^5P^o$	2-2	1.46	14208.931	14205.048	-2	7037.827 ^A	1	6.455	7.328	...	
2635	$e^5P-^4F_{4.5}4f$ [3.5] ^o	2-3	1.43	15043.991	15039.881	14	6647.172 ^A	-6	6.455	7.279	...	
	$e^5P-^4F_{4.5}4f$ [2.5] ^o	3-3	0.85	14531.075	14527.104	-4	6881.803 ^B	2	6.427	7.280	...	
	$e^5P-^4F_{4.5}4f$ [2.5] ^o	3-2	1.86	14522.115	14518.147	2	6886.049 ^A	-1	6.427	7.281	...	
2636	$t^3D^o-f^3F$	2-3	1.79	40949.739	40938.575	0	2442.018 ^B	0	6.532	6.834	...	
2637	$t^3D^o-e^3P$	2-2	2.29	45521.524	45509.114	0	2196.763 ^B	0	6.532	6.804	...	
		3-2	2.35	37503.033	37492.808	0	2666.451 ^A	0	6.473	6.804	...	
		2-1	2.24	37130.992	37120.868	14	2693.168 ^A	-1	6.532	6.866	...	
2638	$t^3D^o-^4F6s^5F$	3-4	1.58	23239.665	23233.324	-5	4302.988 ^B	1	6.473	7.007	...	
		2-3	0.90	20713.574	20707.921	-26	4827.752 ^B	6	6.532	7.130	...	
2639	$t^3D^o-s^6D5d^5G$	3-4	1.46	22421.952	22415.834	-5	4459.915 ^C	1	6.473	7.026	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2640	$t^3D^o - ^4F6s^3F$	2-3	1.48	22046.287	22040.272	-24	4535.911 ^B	5	6.532	7.094	...	
		3-2	1.04	17928.633	17923.738	23	5577.670 ^B	-7	6.473	7.165	...	
2641	$^4F5p^3G^o - ^4F6s^5F$	3-3	2.38	31713.201	31704.553	-10	3153.261 ^A	1	6.739	7.130	...	
		4-3	2.70	28627.981	28620.173	-16	3493.086 ^A	2	6.697	7.130	...	
		5-4	1.67	26959.889	26952.536	15	3709.214 ^B	-2	6.547	7.007	...	
2642	$^4F5p^3G^o - s^6D5d^5G$	5-4	2.15	25865.585	25858.530	20	3866.141 ^A	-3	6.547	7.026	...	
2643	$^4F5p^3G^o - ^4F6s^3F$	3-2	2.41	29124.740	29116.797	-25	3433.507 ^A	3	6.739	7.165	...	
2644	$^4F5p^3G^o - ^4F5d^3G$	5-5	1.95	16652.753	16648.205	0	6005.013 ^A	0	6.547	7.292	...	
2645	$^4F5p^3G^o - 58831^e$	4-3	1.75	20774.286	20768.617	26	4813.643 ^A	-6	6.697	7.294	...	
2646	$^4F5p^3G^o - 58906^e$	5-4	1.41	16394.966	16390.488	3	6099.433 ^B	-1	6.547	7.303	...	
2647	$Gsp3^3F^o - ^4F6s^5F$	3-4	1.99	31658.533	31649.900	-30	3158.706 ^B	3	6.615	7.007	...	
		4-4	2.67	28069.474	28061.818	-8	3562.589 ^A	1	6.565	7.007	...	
		2-2	1.75	26461.270	26454.053	-14	3779.108 ^A	2	6.664	7.132	...	
2648	$Gsp3^3F^o - s^6D5d^5G$	3-3	2.05	27040.934	27033.559	22	3698.097 ^B	-3	6.615	7.074	...	
		4-4	2.52	26885.225	26877.892	7	3719.515 ^A	-1	6.565	7.026	...	
2649	$Gsp3^3F^o - ^4F6s^3F$	3-3	1.82	25897.926	25890.862	-7	3861.313 ^B	1	6.615	7.094	...	
		2-2	2.00	24743.239	24736.489	-24	4041.508 ^C	4	6.664	7.165	...	
2650	$Gsp3^3F^o - s^4D4d^3D$	4-3	1.11	17455.994	17451.228	3	5728.691 ^A	-1	6.565	7.275	...	
2651	$Gsp3^3F^o - ^4F5d^3G$	4-5	1.96	17069.550	17064.889	0	5858.385 ^A	0	6.565	7.292	...	
2652	$Gsp3^3F^o - 58831^e$	3-3	0.85	18269.121	18264.133	-10	5473.717 ^B	3	6.615	7.294	...	
2653	$Gsp3^3F^o - 58906^e$	3-4	1.54	18021.502	18016.582	-23	5548.927 ^A	7	6.615	7.303	...	
		4-4	2.02	16798.792	16794.204	-6	5952.809 ^A	2	6.565	7.303	...	
2654	$Gsp3^3F^o - 59390^e$	4-3	0.78	15535.047	15530.803	-7	6437.058 ^B	3	6.565	7.363	...	
2655	$g^5F - s^4D5p^5F^o$	3-2	0.00	19703.886	19698.508	0	5075.141 ^B	0	6.674	7.303	...	
		5-5	0.90	19663.023	19657.656	0	5085.688 ^A	0	6.579	7.209	...	
		5-4	1.72	18450.208	18445.171	-37	5419.993 ^D	11	6.579	7.251	...	II
2656	$g^5F - ^4F_{4.5}4f [4.5]^o$	4-4	2.23	18827.995	18822.855	4	5311.240 ^A	-1	6.620	7.278	...	
		4-5	1.15	18819.228	18814.091	-14	5313.714 ^C	4	6.620	7.279	...	
		4-3	1.69	18793.541	18788.411	-7	5320.977 ^A	2	6.620	7.279	...	
		4-3	2.35	18778.045	18772.919	-4	5325.368 ^A	1	6.620	7.280	...	
		5-6	2.60	17732.948	17728.107	6	5639.220 ^A	-2	6.579	7.278	...	
		5-5	1.51	17732.021	17727.180	3	5639.515 ^A	-1	6.579	7.278	...	
		5-6	2.68	17726.218	17721.379	3	5641.361 ^A	-1	6.579	7.278	...	
		5-4	1.56	17719.202	17714.364	0	5643.595 ^A	0	6.579	7.278	...	
		5-5	2.69	17711.466	17706.630	13	5646.060 ^D	-4	6.579	7.279	...	I
		5-4	1.18	17699.346	17694.514	9	5649.926 ^D	-3	6.579	7.279	...	Ne
2657	$g^5F - ^4F_{3.5}4f [2.5]^o$	2-2	1.28	19949.523	19944.079	16	5012.651 ^A	-4	6.727	7.348	...	
		3-3	1.83	18400.956	18395.933	3	5434.500 ^D	-1	6.674	7.348	...	I
		3-2	1.67	18385.127	18380.108	14	5439.179 ^A	-4	6.674	7.348	...	
		3-3	2.06	18381.160	18376.142	-34	5440.353 ^A	10	6.674	7.348	...	
		4-5	1.73	17032.272	17027.622	9	5871.207 ^A	-3	6.620	7.348	...	
		4-3	1.75	17013.645	17008.999	26	5877.635 ^A	-9	6.620	7.348	...	
2658	$g^5F - Psp1^3S^o$	1-1	1.15	19552.498	19547.161	19	5114.436 ^A	-5	6.743	7.377	...	
2659	$g^5F - s^6D_{3.5}5f [5.5]^o$	4-5	1.78	15948.207	15943.851	-18	6270.297 ^A	7	6.620	7.397	...	
2660	$g^5F - ^4F_{2.5}4f [1.5]^o$	1-2	0.70	18863.550	18858.401	11	5301.229 ^A	-3	6.743	7.400	...	
		2-3	1.23	18469.079	18464.037	14	5414.455 ^B	-4	6.727	7.398	...	
		2-3	1.51	18444.304	18439.269	17	5421.728 ^A	-5	6.727	7.399	...	
		3-3	0.90	17120.382	17115.707	-15	5840.991 ^B	5	6.674	7.398	...	
		3-4	1.52	17117.027	17112.353	6	5842.136 ^A	-2	6.674	7.398	...	
		3-3	1.45	17099.120	17094.451	15	5848.254 ^D	-5	6.674	7.399	...	I
		3-2	1.23	17075.211	17070.548	0	5856.443 ^D	0	6.674	7.400	...	I

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2661	$g^5F-^4F_{2,5}4f$ [4.5] ^o	4-4	2.90	15924.999	15920.649	10	6279.435 ^D	-4	6.620	7.398	...	I
	$g^5F-^4F_{1,5}4f$ [2.5] ^o	1-2	1.00	17980.508	17975.599	6	5561.578 ^B	-2	6.743	7.432	...	
	$g^5F-^4F_{1,5}4f$ [3.5] ^o	2-3	1.82	17575.257	17570.459	15	5689.817 ^A	-5	6.727	7.432	...	
	$g^5F-^4F_{1,5}4f$ [2.5] ^o	2-2	1.20	17573.880	17569.081	3	5690.263 ^B	-1	6.727	7.432	...	
	$g^5F-^4F_{1,5}4f$ [2.5] ^o	2-3	1.26	17559.191	17554.397	25	5695.023 ^A	-8	6.727	7.433	...	
2662	$^4F5p\ ^5G^o-^4F6s\ ^5F$	5-5	4.52	39566.603	39555.816	-125	2527.384 ^D	8	6.644	6.957	...	Ne
		5-4	2.44	34133.106	34123.799	12	2929.707 ^A	-1	6.644	7.007	...	
		6-5	3.18	32845.803	32836.846	11	3044.529 ^A	-1	6.580	6.957	...	
		2-3	2.71	30740.958	30732.575	-28	3252.989 ^A	3	6.727	7.130	...	
		3-3	1.83	29620.747	29612.669	-9	3376.012 ^B	1	6.712	7.130	...	
		3-2	2.29	29464.983	29456.948	-17	3393.859 ^A	2	6.712	7.132	...	
		2-1	2.41	28600.699	28592.899	8	3496.418 ^D	-1	6.727	7.160	...	II
		4-3	2.16	27333.203	27325.748	-15	3658.554 ^B	2	6.677	7.130	...	
2663	$^4F5p\ ^5G^o-s\ ^6D5d\ ^5D$	3-3	2.44	45403.507	45391.130	-41	2202.473 ^D	2	6.712	6.985	...	Ne
		5-4	2.52	38152.794	38142.392	15	2621.040 ^A	-1	6.644	6.969	...	
2664	$^4F5p\ ^5G^o-s\ ^6D5d\ ^5G$	5-4	1.81	32397.856	32389.021	115	3086.624 ^D	-11	6.644	7.026	...	II
		6-5	2.90	28725.099	28717.265	8	3481.276 ^A	-1	6.580	7.011	...	
2665	$^4F5p\ ^5G^o-s\ ^6D5d\ ^7G$	5-4	2.69	28016.352	28008.711	16	3569.344 ^A	-2	6.644	7.086	...	
2666	$^4F5p\ ^5G^o-s\ ^6D5d\ ^5F$	2-3	2.73	40498.865	40487.823	131	2469.205 ^D	-8	6.727	7.033	...	I
		5-4	2.65	28258.669	28250.962	16	3538.737 ^B	-2	6.644	7.082	...	
		6-5	2.32	27081.768	27074.382	-7	3692.521 ^B	1	6.580	7.037	...	
2667	$^4F5p\ ^5G^o-^4F6s\ ^3F$	3-3	2.99	32423.592	32414.750	-32	3084.174 ^A	3	6.712	7.094	...	
2668	$^4F5p\ ^5G^o-s\ ^6D5d\ ^7S$	4-3	2.03	27885.088	27877.483	47	3586.146 ^D	-6	6.677	7.121	...	I
2669	$^4F5p\ ^5G^o-^4F5d\ ^5F$	6-5	1.66	18109.882	18104.938	3	5521.847 ^A	-1	6.580	7.264	...	
2670	$^4F5p\ ^5G^o-^4F5d\ ^5H$	6-7	2.85	17725.933	17721.093	-3	5641.452 ^A	1	6.580	7.279	...	
2671	$^4F5p\ ^5G^o-^4F5d\ ^3G$	3-4	2.85	19725.507	19720.124	0	5069.578 ^A	0	6.712	7.340	...	
		5-5	0.60	19136.913	19131.690	7	5225.503 ^B	-2	6.644	7.292	...	
		5-4	0.60	17800.797	17795.937	-10	5617.726 ^B	3	6.644	7.340	...	
2672	$^4F5p\ ^5G^o-59390^e$	4-3	1.99	18055.218	18050.289	16	5538.565 ^A	-5	6.677	7.363	...	
2673	$^4F5p\ ^5F^o-^4F6s\ ^5F$	3-4	2.65	35024.576	35015.026	0	2855.138 ^B	0	6.653	7.007	...	
		5-5	2.70	33013.117	33004.115	-11	3029.099 ^A	1	6.581	6.957	...	
		1-2	2.26	30265.482	30257.229	-27	3304.094 ^B	3	6.723	7.132	...	
		2-3	2.02	28833.899	28826.035	-17	3468.140 ^B	2	6.700	7.130	...	
		2-2	2.13	28686.296	28678.473	0	3485.985 ^B	0	6.700	7.132	...	
		1-1	2.27	28331.204	28323.477	16	3529.677 ^A	-2	6.723	7.160	...	
2674	$^4F5p\ ^5F^o-s\ ^6D5d\ ^5D$	4-4	2.58	35474.692	35465.019	38	2818.911 ^B	-3	6.619	6.969	...	
2675	$^4F5p\ ^5F^o-s\ ^6D5d\ ^5G$	4-5	2.27	31625.573	31616.949	-20	3161.998 ^B	2	6.619	7.011	...	
		5-5	2.95	28853.000	28845.132	0	3465.844 ^A	0	6.581	7.011	...	
2676	$^4F5p\ ^5F^o-s\ ^6D5d\ ^7G$	3-4	2.23	28614.120	28606.317	-8	3494.778 ^B	1	6.653	7.086	...	
2677	$^4F5p\ ^5F^o-s\ ^6D5d\ ^5F$	4-5	2.70	29645.089	29637.004	0	3373.240 ^D	0	6.619	7.037	...	II
		5-5	2.31	27195.425	27188.008	-7	3677.089 ^C	1	6.581	7.037	...	
2678	$^4F5p\ ^5F^o-^4F6s\ ^3F$	2-3	2.11	31483.152	31474.567	-20	3176.302 ^D	2	6.700	7.094	...	I
		2-2	2.06	26678.141	26670.865	-43	3748.387 ^B	6	6.700	7.165	...	
		4-3	1.57	26108.338	26101.216	-34	3830.194 ^B	5	6.619	7.094	...	
2679	$^4F5p\ ^5F^o-^4F5d\ ^5F$	3-4	1.91	20279.882	20274.348	0	4930.995 ^A	0	6.653	7.264	...	
		4-5	2.03	19221.280	19216.034	4	5202.567 ^B	-1	6.619	7.264	...	
		4-4	2.07	19218.074	19212.828	4	5203.435 ^A	-1	6.619	7.264	...	
		5-5	2.53	18160.629	18155.671	0	5506.417 ^A	0	6.581	7.264	...	
2680	$^4F5p\ ^5F^o-s\ ^4D4d\ ^3D$	3-3	0.78	19915.395	19909.960	8	5021.241 ^A	-2	6.653	7.275	...	
		3-2	0.00	18801.441	18796.309	7	5318.741 ^B	-2	6.653	7.312	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2681	$^4F5p\ ^5F^\circ - ^4F5d\ ^3G$	4-4	1.46	17195.151	17190.455	6	5815.593 ^B	-2	6.619	7.340	...	
2682	$^4F5p\ ^5F^\circ - 58831^e$	3-3	1.65	19341.798	19336.519	0	5170.150 ^A	0	6.653	7.294	...	
2683	$^4F5p\ ^5F^\circ - 58906^e$	3-4	1.41	19064.486	19059.282	7	5245.355 ^A	-2	6.653	7.303	...	
2684	$^4F5p\ ^5F^\circ - 59077^e$	1-1	1.26	20607.233	20601.609	-4	4852.665 ^B	1	6.723	7.324	...	
2685	$^4F5p\ ^5F^\circ - 59390^e$	2-3	1.48	18698.051	18692.946	17	5348.151 ^B	-5	6.700	7.363	...	
2686	$h\ ^5D - s\ ^4D5p\ ^3F^\circ$	3-2	2.47	18463.258	18458.218	0	5416.162 ^B	0	6.639	7.310	...	
2687	$h\ ^5D - Hsp1\ ^3G^\circ$	3-4	1.45	20882.136	20876.438	-9	4788.782 ^B	2	6.639	7.232	...	
2688	$h\ ^5D - s\ ^4D5p\ ^5F^\circ$	4-4	0.95	18775.273	18770.148	4	5326.154 ^A	-1	6.590	7.251	...	
		4-3	1.76	17849.228	17844.355	0	5602.483 ^A	0	6.590	7.285	...	
2689	$h\ ^5D - ^4F_{4.5}4f\ [2.5]^\circ$	2-2	1.65	21023.345	21017.608	40	4756.617 ^B	-9	6.691	7.281	...	
	$h\ ^5D - ^4F_{4.5}4f\ [4.5]^\circ$	3-4	1.98	19383.300	19378.010	0	5159.080 ^A	0	6.639	7.278	...	
	$h\ ^5D - ^4F_{4.5}4f\ [3.5]^\circ$	3-3	2.06	19346.794	19341.513	-4	5168.815 ^A	1	6.639	7.279	...	
	$h\ ^5D - ^4F_{4.5}4f\ [2.5]^\circ$	3-3	1.80	19330.365	19325.089	-4	5173.208 ^A	1	6.639	7.280	...	
	$h\ ^5D - ^4F_{4.5}4f\ [2.5]^\circ$	3-2	1.66	19314.464	19309.192	-45	5177.467 ^A	12	6.639	7.281	...	
	$h\ ^5D - ^4F_{4.5}4f\ [5.5]^\circ$	4-5	2.42	18032.031	18027.108	7	5545.687 ^A	-2	6.590	7.278	...	
	$h\ ^5D - ^4F_{4.5}4f\ [4.5]^\circ$	4-4	2.25	18018.768	18013.848	-3	5549.769 ^A	1	6.590	7.278	...	
	$h\ ^5D - ^4F_{4.5}4f\ [4.5]^\circ$	4-5	2.44	18010.765	18005.847	6	5552.235 ^A	-2	6.590	7.279	...	
	$h\ ^5D - ^4F_{4.5}4f\ [3.5]^\circ$	4-4	2.40	17998.220	17993.306	-13	5556.105 ^A	4	6.590	7.279	...	
	$h\ ^5D - ^4F_{4.5}4f\ [3.5]^\circ$	4-3	2.51	17987.212	17982.302	-10	5559.505 ^A	3	6.590	7.279	...	
	$h\ ^5D - ^4F_{4.5}4f\ [2.5]^\circ$	4-3	1.69	17973.017	17968.110	-3	5563.896 ^A	1	6.590	7.280	...	
2690	$h\ ^5D - ^4F_{3.5}4f\ [1.5]^\circ$	1-2	1.38	19441.341	19436.035	34	5143.678 ^D	-9	6.711	7.349	...	II
	$h\ ^5D - ^4F_{3.5}4f\ [3.5]^\circ$	2-3	1.58	18872.147	18866.996	4	5298.814 ^A	-1	6.691	7.348	...	
	$h\ ^5D - ^4F_{3.5}4f\ [2.5]^\circ$	2-2	0.95	18855.529	18850.382	43	5303.484 ^C	-12	6.691	7.348	...	
	$h\ ^5D - ^4F_{3.5}4f\ [2.5]^\circ$	2-3	1.89	18851.363	18846.217	0	5304.656 ^A	0	6.691	7.348	...	
	$h\ ^5D - ^4F_{3.5}4f\ [1.5]^\circ$	2-2	1.30	18833.884	18828.743	-11	5309.579 ^A	3	6.691	7.349	...	
	$h\ ^5D - ^4F_{3.5}4f\ [4.5]^\circ$	3-4	2.01	17493.343	17488.567	18	5716.460 ^D	-6	6.639	7.347	...	I
	$h\ ^5D - ^4F_{3.5}4f\ [3.5]^\circ$	3-4	2.20	17482.795	17478.022	6	5719.909 ^A	-2	6.639	7.348	...	
	$h\ ^5D - ^4F_{3.5}4f\ [2.5]^\circ$	3-3	1.54	17465.772	17461.003	3	5725.484 ^A	-1	6.639	7.348	...	
	$h\ ^5D - ^4F_{3.5}4f\ [4.5]^\circ$	4-4	1.00	16374.228	16369.756	-13	6107.158 ^A	5	6.590	7.347	...	
	$h\ ^5D - ^4F_{3.5}4f\ [4.5]^\circ$	4-5	1.23	16367.316	16362.846	3	6109.737 ^A	-1	6.590	7.348	...	
2691	$h\ ^5D - ^4F_{2.5}4f\ [1.5]^\circ$	1-2	1.67	18002.234	17997.319	0	5554.866 ^A	0	6.711	7.400	...	
2692	$h\ ^5D - ^4F_{1.5}4f\ [2.5]^\circ$	1-2	1.34	17196.262	17191.567	-9	5815.217 ^B	3	6.711	7.432	...	
2693	$f\ ^5P - s\ ^4D5p\ ^5F^\circ$	2-3	0.30	19271.985	19266.725	-7	5188.879 ^A	2	6.641	7.285	...	
		3-4	0.48	18794.473	18789.343	-21	5320.713 ^A	6	6.591	7.251	...	
		3-3	1.71	17866.605	17861.727	3	5597.034 ^A	-1	6.591	7.285	...	
2694	$f\ ^5P - s\ ^4D5p\ ^5P^\circ$	2-3	0.70	19585.922	19580.576	0	5105.708 ^D	0	6.641	7.274	...	II
		3-3	0.95	18136.092	18131.140	-7	5513.867 ^B	2	6.591	7.274	...	
		2-1	1.08	17266.859	17262.145	15	5791.441 ^B	-5	6.641	7.359	...	
		3-2	0.60	16821.686	16817.093	-11	5944.707 ^B	4	6.591	7.328	...	
2695	$f\ ^5P - ^4F_{4.5}4f\ [2.5]^\circ$	2-3	1.71	19416.389	19411.090	0	5150.288 ^A	0	6.641	7.280	...	
	$f\ ^5P - ^4F_{4.5}4f\ [2.5]^\circ$	2-2	1.99	19400.380	19395.085	0	5154.538 ^A	0	6.641	7.281	...	
	$f\ ^5P - ^4F_{4.5}4f\ [4.5]^\circ$	3-4	1.38	18036.477	18031.552	0	5544.320 ^A	0	6.591	7.278	...	
	$f\ ^5P - ^4F_{4.5}4f\ [3.5]^\circ$	3-4	2.42	18015.885	18010.966	-13	5550.657 ^A	4	6.591	7.279	...	
	$f\ ^5P - ^4F_{4.5}4f\ [3.5]^\circ$	3-3	1.94	18004.863	17999.947	0	5554.055 ^A	0	6.591	7.279	...	
	$f\ ^5P - ^4F_{4.5}4f\ [2.5]^\circ$	3-3	2.10	17990.649	17985.737	10	5558.443 ^A	-3	6.591	7.280	...	
	$f\ ^5P - ^4F_{4.5}4f\ [2.5]^\circ$	3-2	1.93	17976.891	17971.983	-6	5562.697 ^A	2	6.591	7.281	...	
2696	$f\ ^5P - ^4F_{3.5}4f\ [2.5]^\circ$	1-2	1.63	18709.217	18704.110	-7	5344.959 ^A	2	6.686	7.348	...	
	$f\ ^5P - ^4F_{3.5}4f\ [1.5]^\circ$	1-2	0.78	18687.959	18682.858	-3	5351.039 ^A	1	6.686	7.349	...	
	$f\ ^5P - ^4F_{3.5}4f\ [3.5]^\circ$	2-3	1.72	17553.933	17549.140	-9	5696.729 ^A	3	6.641	7.348	...	
	$f\ ^5P - ^4F_{3.5}4f\ [2.5]^\circ$	2-2	1.79	17539.533	17534.744	3	5701.406 ^A	-1	6.641	7.348	...	
	$f\ ^5P - ^4F_{3.5}4f\ [2.5]^\circ$	2-3	1.38	17535.962	17531.174	0	5702.567 ^D	0	6.641	7.348	...	II
	$f\ ^5P - ^4F_{3.5}4f\ [1.5]^\circ$	2-2	2.15	17520.852	17516.068	6	5707.485 ^A	-2	6.641	7.349	...	
	$f\ ^5P - ^4F_{3.5}4f\ [3.5]^\circ$	3-3	0.78	16380.335	16375.862	8	6104.881 ^D	-3	6.591	7.348	...	I
	$f\ ^5P - ^4F_{3.5}4f\ [1.5]^\circ$	3-2	2.67	16351.507	16347.041	5	6115.644 ^D	-2	6.591	7.349	...	Ne

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2697	$f^5P-^4F_{2.5}4f$ [2.5]°	1-2	1.26	17375.883	17371.139	9	5755.103 ^C	-3	6.686	7.399	...	
	$f^5P-^4F_{2.5}4f$ [1.5]°	1-2	1.49	17354.428	17349.689	-3	5762.218 ^A	1	6.686	7.400	...	
	$f^5P-^4F_{2.5}4f$ [2.5]°	2-2	0.48	16362.455	16357.987	8	6111.552 ^B	-3	6.641	7.399	...	
2698	$f^5G-^4F_{4.5}4f$ [5.5]°	4-5	1.51	20276.329	20270.796	-16	4931.859 ^B	4	6.666	7.278	...	
	$f^5G-^4F_{4.5}4f$ [4.5]°	4-4	1.41	20259.598	20254.069	4	4935.932 ^B	-1	6.666	7.278	...	
	$f^5G-^4F_{4.5}4f$ [5.5]°	5-6	2.63	18454.096	18449.058	0	5418.851 ^A	0	6.606	7.278	...	
	$f^5G-^4F_{4.5}4f$ [5.5]°	5-5	2.72	18453.095	18448.058	0	5419.145 ^A	0	6.606	7.278	...	
	$f^5G-^4F_{4.5}4f$ [6.5]°	5-6	2.75	18446.808	18441.772	0	5420.992 ^A	0	6.606	7.278	...	
	$f^5G-^4F_{4.5}4f$ [4.5]°	5-4	1.88	18439.209	18434.175	-7	5423.226 ^A	2	6.606	7.278	...	
	$f^5G-^4F_{4.5}4f$ [4.5]°	5-5	0.85	18430.818	18425.787	-3	5425.695 ^A	1	6.606	7.279	...	
	$f^5G-^4F_{4.5}4f$ [5.5]°	6-6	2.48	18078.618	18073.683	-10	5531.396 ^A	3	6.592	7.278	...	
	$f^5G-^4F_{4.5}4f$ [6.5]°	6-7	3.04	18060.575	18055.645	0	5536.922 ^A	0	6.592	7.278	...	
	$f^5G-^4F_{4.5}4f$ [4.5]°	6-5	1.99	18056.290	18051.361	3	5538.236 ^A	-1	6.592	7.279	...	
2699	$f^5G-H\,sp1\ ^3I^0$	4-5	1.11	18808.139	18803.005	0	5316.847 ^A	0	6.666	7.325	...	
		5-6	1.34	17652.116	17647.297	-3	5665.043 ^A	1	6.606	7.308	...	
2700	$f^5G-^4F_{3.5}4f$ [2.5]°	3-3	1.00	19568.828	19563.487	38	5110.168 ^D	-10	6.715	7.348	...	I
	$f^5G-^4F_{3.5}4f$ [4.5]°	4-4	1.89	18203.931	18198.961	3	5493.319 ^A	-1	6.666	7.347	...	
	$f^5G-^4F_{3.5}4f$ [4.5]°	4-5	2.12	18195.372	18190.404	3	5495.903 ^A	-1	6.666	7.348	...	
	$f^5G-^4F_{3.5}4f$ [5.5]°	4-5	2.73	18194.908	18189.941	7	5496.043 ^A	-2	6.666	7.348	...	
	$f^5G-^4F_{3.5}4f$ [2.5]°	4-3	1.89	18174.092	18169.131	0	5502.338 ^A	0	6.666	7.348	...	
	$f^5G-^4F_{3.5}4f$ [5.5]°	5-6	1.00	16716.174	16711.609	11	5982.230 ^A	-4	6.606	7.348	...	
2701	$f^5G-^4F_{2.5}4f$ [2.5]°	2-3	0.48	18855.259	18850.112	-7	5303.560 ^A	2	6.741	7.399	...	
	$f^5G-^4F_{2.5}4f$ [1.5]°	2-2	2.06	18826.183	18821.044	-39	5311.751 ^D	11	6.741	7.400	...	I
	$f^5G-^4F_{2.5}4f$ [3.5]°	3-4	1.82	18147.740	18142.785	-3	5510.328 ^A	1	6.715	7.398	...	
	$f^5G-^4F_{2.5}4f$ [4.5]°	3-4	2.04	18142.317	18137.364	-3	5511.975 ^A	1	6.715	7.398	...	
	$f^5G-^4F_{2.5}4f$ [2.5]°	3-3	1.04	18122.186	18117.238	-7	5518.098 ^A	2	6.715	7.399	...	
	$f^5G-^4F_{2.5}4f$ [3.5]°	4-4	0.70	16942.011	16937.384	3	5902.487 ^B	-1	6.666	7.398	...	
	$f^5G-^4F_{2.5}4f$ [4.5]°	4-5	1.11	16941.620	16936.994	-6	5902.623 ^B	2	6.666	7.398	...	
2702	$f^5G-^4F_{1.5}4f$ [3.5]°	2-3	2.20	17948.014	17943.114	-3	5571.647 ^A	1	6.741	7.432	...	
	$f^5G-^4F_{1.5}4f$ [2.5]°	2-3	2.17	17931.246	17926.351	-6	5576.857 ^A	2	6.741	7.433	...	
	$f^5G-^4F_{1.5}4f$ [3.5]°	3-4	1.59	17283.446	17278.727	0	5785.883 ^A	0	6.715	7.432	...	
2703	$e^5H-s\ ^6D6p\ ^5D^0$	5-4	2.13	34988.572	34979.032	24	2858.076 ^B	-2	6.679	7.034	...	
2704	$e^5H-H\,sp1\ ^3G^0$	5-4	1.46	22419.760	22413.643	25	4460.351 ^B	-5	6.679	7.232	...	
		6-5	1.73	21433.608	21427.759	9	4665.570 ^A	-2	6.615	7.193	...	
2705	$e^5H-^4F_{4.5}4f$ [5.5]°	6-6	2.10	18700.138	18695.033	-14	5347.554 ^A	4	6.615	7.278	...	
	$e^5H-^4F_{4.5}4f$ [5.5]°	6-5	1.60	18699.117	18694.012	-3	5347.846 ^A	1	6.615	7.278	...	
	$e^5H-^4F_{4.5}4f$ [6.5]°	6-6	2.25	18692.664	18687.562	-3	5349.692 ^A	1	6.615	7.278	...	
	$e^5H-^4F_{4.5}4f$ [7.5]°	6-7	3.11	18623.447	18618.364	0	5369.575 ^A	0	6.615	7.280	...	
	$e^5H-^4F_{4.5}4f$ [5.5]°	7-6	1.20	18431.966	18426.935	0	5425.357 ^B	0	6.605	7.278	...	
	$e^5H-^4F_{4.5}4f$ [6.5]°	7-6	1.32	18424.709	18419.679	14	5427.494 ^A	-4	6.605	7.278	...	
	$e^5H-^4F_{4.5}4f$ [6.5]°	7-7	2.46	18413.208	18408.182	0	5430.884 ^A	0	6.605	7.278	...	
	$e^5H-^4F_{4.5}4f$ [7.5]°	7-8	2.76	18371.158	18366.142	0	5443.315 ^A	0	6.605	7.280	...	
2706	$e^5H-H\,sp1\ ^3I^0$	4-5	1.15	20624.416	20618.788	-38	4848.622 ^D	9	6.724	7.325	...	II
		5-6	1.41	19714.242	19708.861	-4	5072.475 ^A	1	6.679	7.308	...	
		6-7	2.89	18384.843	18379.824	7	5439.263 ^A	-2	6.615	7.289	...	
2707	$e^5H-^4F_{3.5}4f$ [4.5]°	4-4	0.30	19900.168	19894.737	8	5025.083 ^D	-2	6.724	7.347	...	I
	$e^5H-^4F_{3.5}4f$ [5.5]°	4-5	1.15	19889.414	19883.986	47	5027.800 ^B	-12	6.724	7.348	...	
	$e^5H-^4F_{3.5}4f$ [4.5]°	5-4	0.90	18559.617	18554.551	0	5388.042 ^A	0	6.679	7.347	...	
	$e^5H-^4F_{3.5}4f$ [5.5]°	5-6	1.54	18554.042	18548.977	17	5389.661 ^A	-5	6.679	7.348	...	
	$e^5H-^4F_{3.5}4f$ [5.5]°	5-5	2.07	18550.229	18545.165	-3	5390.769 ^A	1	6.679	7.348	...	
	$e^5H-^4F_{3.5}4f$ [3.5]°	5-4	1.53	18547.755	18542.692	-7	5391.488 ^D	2	6.679	7.348	...	I
	$e^5H-^4F_{3.5}4f$ [6.5]°	5-6	2.33	18522.356	18517.300	-10	5398.881 ^D	3	6.679	7.349	...	Ne
	$e^5H-^4F_{3.5}4f$ [6.5]°	6-7	2.04	16895.031	16890.417	0	5918.900 ^A	0	6.615	7.349	...	
	$e^5H-^4F_{3.5}4f$ [6.5]°	6-6	1.32	16891.483	16886.871	6	5920.143 ^A	-2	6.615	7.349	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2708	$e^5H-s^6D_{4.5}5f$ [6.5] ^o	6-6	1.85	16883.626	16879.016	-11	5922.898 ^A	4	6.615	7.349	...	
2709	$e^5H-^4F_{2.5}4f$ [2.5] ^o	3-3	2.20	19274.366	19269.105	-7	5188.238 ^D	2	6.756	7.399	...	Ne
	$e^5H-^4F_{2.5}4f$ [3.5] ^o	5-4	1.51	17249.685	17244.975	6	5797.207 ^A	-2	6.679	7.398	...	
2710	$^4F5p^3F^o-^4F6s^5F$	2-2 4-3	3.09 1.48	35434.228 23912.970	35424.567 23906.446	-63 0	2822.130 ^B 4181.831 ^B	5 0	6.782 6.612	7.132 7.130	...	
2711	$^4F5p^3F^o-s^6D5d^5G$	4-3	1.61	26832.822	26825.504	7	3726.779 ^B	-1	6.612	7.074	...	
2712	$^4F5p^3F^o-s^6D5d^7G$	3-4	2.46	34881.843	34872.332	24	2866.821 ^D	-2	6.731	7.086	...	II
2713	$^4F5p^3F^o-s^6D5d^5F$	4-5	2.00	29128.659	29120.715	-17	3433.045 ^B	2	6.612	7.037	...	
2714	$^4F5p^3F^o-^4F6s^3F$	3-3 2-2 4-3	2.16 2.77 2.35	34132.115 32419.902 25707.000	34122.809 32411.062 25699.988	12 -32 0	2929.792 ^D 3084.525 ^A 3889.991 ^A	-1 3 0	6.731 6.782 6.612	7.094 7.165 7.094	...	I
2715	$^4F5p^3F^o-^4F5d^5F$	4-5 4-4	0.60 1.15	19002.833 18999.703	18997.646 18994.517	-11 -4	5262.373 ^B 5263.240 ^A	3 1	6.612 6.612	7.264 7.264	...	
2716	$^4F5p^3F^o-^4F5d^3G$	4-5 4-4	0.78 1.62	18237.578 17020.123	18232.599 17015.475	-13 0	5483.184 ^B 5875.398 ^A	4 0	6.612 6.612	7.292 7.340	...	
2717	$^4F5p^3F^o-58906^e$	4-4	1.78	17928.858	17923.963	3	5577.600 ^A	-1	6.612	7.303	...	
2718	$^4F5p^3F^o-59390^e$	4-3	1.34	16496.603	16492.097	-14	6061.854 ^B	5	6.612	7.363	...	
2719	$^4F5p^5D^o-^4F6s^5F$	4-5 4-4 1-2 2-3 1-1	4.23 2.69 2.46 2.71 2.30	39944.429 34413.859 34183.663 33556.911 31736.400	39933.539 34404.476 34174.342 33547.761 31727.745	-64 -12 -23 11 30	2503.478 ^D 2905.806 ^A 2925.374 ^A 2980.012 ^A 3150.956 ^B	4 1 2 -1 -3	6.647 6.647 6.770 6.761 6.770	6.957 7.007 7.132 7.130 7.160	...	Ne
2720	$^4F5p^5D^o-s^6D5d^5D$	4-3	2.03	36674.126	36664.126	-54	2726.718 ^B	4	6.647	6.985	...	
2721	$^4F5p^5D^o-s^6D5d^5G$	4-5	2.74	34011.037	34001.763	-12	2940.222 ^B	1	6.647	7.011	...	
2722	$^4F5p^5D^o-s^6D5d^7G$	4-4	2.41	28205.220	28197.527	8	3545.443 ^B	-1	6.647	7.086	...	
2723	$^4F5p^5D^o-s^6D5d^5F$	4-4	2.33	28450.789	28443.029	-24	3514.841 ^C	3	6.647	7.082	...	
2724	$^4F5p^5D^o-^4F6s^3F$	3-4	3.16	33074.000	33064.981	-66	3023.523 ^A	6	6.668	7.043	...	
2725	$^4F5p^5D^o-s^6D7s^5D$	3-4	2.88	22042.813	22036.798	29	4536.626 ^D	-6	6.668	7.231	...	Ne
2726	$^4F5p^5D^o-s^4D4d^3G$	4-4	1.26	18674.631	18669.533	14	5354.858 ^A	-4	6.647	7.311	...	
2727	$^4F5p^5D^o-^4F5d^5F$	4-4	1.64	20073.605	20068.127	-16	4981.666 ^B	4	6.647	7.264	...	
2728	$^4F5p^5D^o-s^4D4d^3D$	4-3	0.48	19716.418	19711.037	-19	5071.915 ^C	5	6.647	7.275	...	
2729	$^4F5p^5D^o-^4F5d^3G$	4-5 4-4	1.18 1.08	19224.853 17876.832	19219.606 17871.952	7 -38	5201.600 ^B 5593.832 ^D	-2 12	6.647 6.647	7.292 7.340	...	I
2730	$^4F5p^5D^o-58831^e$	4-3	0.95	19154.071	19148.843	-15	5220.822 ^A	4	6.647	7.294	...	
2731	$^4F5p^5D^o-58906^e$	4-4	1.85	18882.054	18876.899	-36	5296.034 ^D	10	6.647	7.303	...	I
2732	$^4F5p^5D^o-59390^e$	4-3	1.00	17300.223	17295.500	-3	5780.272 ^B	1	6.647	7.363	...	
2733	$Dsp3^5F^o-^4F6s^5F$	3-2 5-5	2.52 2.85	26350.995 47616.054	26343.808 47603.074	-28 45	3794.923 ^A 2100.132 ^B	4 -2	6.662 6.697	7.132 6.957	...	
2734	$Dsp3^5F^o-^4F6s^3F$	3-2	2.02	24646.823	24640.099	0	4057.318 ^A	0	6.662	7.165	...	
2735	$e^3G-^4F_{4.5}4f$ [5.5] ^o	4-5	1.80	21578.143	21572.255	-19	4634.319 ^B	4	6.703	7.278	...	
	$e^3G-^4F_{4.5}4f$ [4.5] ^o	4-4	1.57	21559.163	21553.280	-19	4638.399 ^B	4	6.703	7.278	...	
	$e^3G-^4F_{4.5}4f$ [3.5] ^o	4-3	1.58	21514.060	21508.190	28	4648.123 ^B	-6	6.703	7.279	...	
	$e^3G-^4F_{4.5}4f$ [4.5] ^o	5-5	1.04	20129.023	20123.529	-24	4967.951 ^B	6	6.663	7.279	...	
	$e^3G-^4F_{4.5}4f$ [3.5] ^o	5-4	1.41	20113.403	20107.914	-4	4971.809 ^B	1	6.663	7.279	...	
2736	$e^3G-^4F_{3.5}4f$ [4.5] ^o	3-4	1.15	20479.561	20473.972	-8	4882.917 ^B	2	6.742	7.347	...	
	$e^3G-^4F_{3.5}4f$ [4.5] ^o	4-4	1.73	19246.395	19241.142	7	5195.778 ^A	-2	6.703	7.347	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	σ ⁵ (mÅ)	σ ⁵ (cm ⁻¹)	σ ⁵ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
	$e^3G-^4F_{3,5}4f$ [4.5] ^o	4-5	1.69	19236.821	19231.570	4	5198.364 ^A	-1	6.703	7.348	...	
	$e^3G-^4F_{3,5}4f$ [3.5] ^o	4-4	1.79	19233.639	19228.389	4	5199.224 ^A	-1	6.703	7.348	...	
	$e^3G-^4F_{3,5}4f$ [2.5] ^o	4-3	0.78	19213.026	19207.782	-7	5204.802 ^B	2	6.703	7.348	...	
	$e^3G-^4F_{3,5}4f$ [5.5] ^o	5-6	2.97	18101.231	18096.289	-7	5524.486 ^A	2	6.663	7.348	...	
	$e^3G-^4F_{3,5}4f$ [4.5] ^o	5-5	1.73	18098.089	18093.148	0	5525.445 ^A	0	6.663	7.348	...	
	$e^3G-^4F_{3,5}4f$ [5.5] ^o	5-5	1.57	18097.628	18092.687	3	5525.586 ^A	-1	6.663	7.348	...	
	$e^3G-^4F_{3,5}4f$ [3.5] ^o	5-4	2.19	18095.263	18090.323	-10	5526.308 ^A	3	6.663	7.348	...	
2737	$e^3G-^4F_{2,5}4f$ [3.5] ^o	3-4	1.86	18896.154	18890.996	4	5292.082 ^A	-1	6.742	7.398	...	
	$e^3G-^4F_{2,5}4f$ [4.5] ^o	3-4	1.52	18890.307	18885.151	32	5293.720 ^C	-9	6.742	7.398	...	
	$e^3G-^4F_{2,5}4f$ [2.5] ^o	3-3	0.30	18868.476	18863.325	18	5299.845 ^B	-5	6.742	7.399	...	
	$e^3G-^4F_{2,5}4f$ [3.5] ^o	4-4	2.07	17841.375	17836.504	-3	5604.949 ^A	1	6.703	7.398	...	
	$e^3G-^4F_{2,5}4f$ [4.5] ^o	4-5	2.55	17840.955	17836.084	0	5605.081 ^A	0	6.703	7.398	...	
	$e^3G-^4F_{2,5}4f$ [5.5] ^o	5-5	1.75	16827.285	16822.690	17	5942.729 ^D	-6	6.663	7.399	...	I
2738	$e^3G-^4F_{1,5}4f$ [3.5] ^o	3-4	2.54	17960.937	17956.034	3	5567.638 ^A	-1	6.742	7.432	...	
	$e^3G-^4F_{1,5}4f$ [3.5] ^o	3-3	1.15	17959.960	17955.057	-3	5567.941 ^B	1	6.742	7.432	...	
	$e^3G-^4F_{1,5}4f$ [2.5] ^o	3-3	1.81	17943.180	17938.281	3	5573.148 ^A	-1	6.742	7.433	...	
2739	$f^3D-^4F_{4,5}4f$ [2.5] ^o	2-2	1.71	21475.274	21469.414	-14	4656.518 ^B	3	6.703	7.281	...	
	$f^3D-^4F_{4,5}4f$ [4.5] ^o	3-4	1.26	20171.831	20166.326	16	4957.408 ^B	-4	6.664	7.278	...	
	$f^3D-^4F_{4,5}4f$ [2.5] ^o	3-3	1.64	20114.479	20108.990	-12	4971.543 ^B	3	6.664	7.280	...	
2740	$f^3D-^4F_{3,5}4f$ [2.5] ^o	2-3	1.69	19213.975	19208.731	-4	5204.545 ^B	1	6.703	7.348	...	
	$f^3D-^4F_{3,5}4f$ [1.5] ^o	2-2	1.53	19195.825	19190.585	-4	5209.466 ^A	1	6.703	7.349	...	
	$f^3D-^4F_{3,5}4f$ [4.5] ^o	3-4	2.53	18133.023	18128.073	-7	5514.800 ^A	2	6.664	7.347	...	
	$f^3D-^4F_{3,5}4f$ [3.5] ^o	3-3	2.23	18122.590	18117.642	3	5517.975 ^A	-1	6.664	7.348	...	
	$f^3D-^4F_{3,5}4f$ [3.5] ^o	3-4	1.93	18121.739	18116.792	30	5518.234 ^D	-9	6.664	7.348	...	Ne
	$f^3D-^4F_{3,5}4f$ [2.5] ^o	3-2	1.90	18107.226	18102.282	0	5522.657 ^A	0	6.664	7.348	...	
	$f^3D-^4F_{3,5}4f$ [2.5] ^o	3-3	1.95	18103.430	18098.488	10	5523.815 ^A	-3	6.664	7.348	...	
2741	$f^3D-^4F_{2,5}4f$ [3.5] ^o	2-3	2.11	17840.595	17835.724	-16	5605.194 ^A	5	6.703	7.398	...	
	$f^3D-^4F_{2,5}4f$ [2.5] ^o	2-2	0.85	17814.118	17809.254	22	5613.525 ^D	-7	6.703	7.399	...	I
	$f^3D-^4F_{2,5}4f$ [1.5] ^o	2-2	1.20	17791.555	17786.698	0	5620.644 ^A	0	6.703	7.400	...	
	$f^3D-^4F_{2,5}4f$ [3.5] ^o	3-4	0.70	16880.577	16875.967	-3	5923.968 ^B	1	6.664	7.398	...	
2742	$g^7D-s^6D6p^7D^o$	3-4	2.75	47349.269	47336.361	-22	2111.965 ^D	1	6.745	7.007	...	
		5-5	3.56	43113.260	43101.506	0	2319.472 ^A	0	6.670	6.958	...	
		2-2	2.54	43072.406	43060.664	0	2321.672 ^A	0	6.771	7.059	...	
		4-4	3.60	41806.055	41794.657	17	2391.998 ^A	-1	6.710	7.007	...	
2743	$g^7D-s^6D6p^7F^o$	3-4	3.19	42518.380	42506.789	18	2351.924 ^A	-1	6.745	7.037	...	
		4-5	3.69	42048.360	42036.897	-18	2378.214 ^A	1	6.710	7.005	...	
		5-6	3.94	40648.374	40637.292	-17	2460.123 ^A	1	6.670	6.975	...	
		2-2	3.20	39545.824	39535.042	16	2528.712 ^D	-1	6.771	7.084	...	I
		4-4	2.24	37994.498	37984.139	0	2631.960 ^D	0	6.710	7.037	...	II
2744	$g^7D-s^6D6p^7P^o$	4-4	3.70	41376.188	41364.908	51	2416.849 ^A	-3	6.710	7.010	...	
		3-3	3.45	40263.387	40252.409	-32	2483.646 ^A	2	6.745	7.053	...	
		5-4	2.68	36486.536	36476.588	-13	2740.737 ^B	1	6.670	7.010	...	
		4-3	2.44	36183.599	36173.734	-65	2763.683 ^C	5	6.710	7.053	...	
		3-2	3.88	35901.035	35891.246	-39	2785.435 ^A	3	6.745	7.090	...	
2745	$g^7D-s^6D6p^5F^o$	4-5	3.05	38721.613	38711.056	45	2582.537 ^A	-3	6.710	7.031	...	
		3-4	2.33	37600.119	37589.868	0	2659.566 ^D	0	6.745	7.075	...	II
2746	$g^7D-s^6D6p^5D^o$	4-4	2.19	38349.601	38339.146	29	2607.589 ^B	-2	6.710	7.034	...	
		1-0	1.63	34926.835	34917.312	-85	2863.128 ^B	7	6.788	7.143	...	
2747	$^4F5p^3D^o-^4F6s^5F$	2-1	2.09	29314.208	29306.214	34	3411.315 ^B	-4	6.737	7.160	...	
		3-3	1.85	27227.094	27219.668	22	3672.812 ^B	-3	6.675	7.130	...	
2748	$^4F5p^3D^o-s^6D5d^5G$	3-4	2.82	35269.723	35260.106	12	2835.293 ^A	-1	6.675	7.026	...	
2749	$^4F5p^3D^o-^4F6s^3F$	2-3	2.42	34769.982	34760.502	36	2876.044 ^B	-3	6.737	7.094	...	
		1-2	2.73	33515.916	33506.777	11	2983.657 ^A	-1	6.795	7.165	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2750	$^4F5p\ ^3D^o-59390^e$	3-3	1.71	18008.844	18003.928	19	5552.827 ^A	-6	6.675	7.363	...	
2751	$e^3H-Hsp1\ ^3G^o$	4-3	1.66	24722.306	24715.562	-31	4044.930 ^B	5	6.764	7.265	...	
2752	$e^3H-Hsp1\ ^3I^o$	4-5	1.15	22073.062	22067.039	-5	4530.409 ^B	1	6.764	7.325	...	
		5-6	1.28	21367.462	21361.631	9	4680.013 ^D	-2	6.728	7.308	...	II
2753	$e^3H-^4F_{3.5}4f\ [3.5]^o$	4-4	1.46	21229.948	21224.155	-5	4710.327 ^C	1	6.764	7.348	...	
	$e^3H-^4F_{3.5}4f\ [5.5]^o$	5-6	1.46	20011.178	20005.716	0	4997.207 ^D	0	6.728	7.348	...	II
	$e^3H-^4F_{3.5}4f\ [5.5]^o$	6-6	2.16	18438.947	18433.914	-3	5423.303 ^A	1	6.675	7.348	...	
2754	$e^3H-s\ ^6D_{3.5}5f\ [6.5]^o$	6-7	2.19	17157.423	17152.738	6	5828.381 ^A	-2	6.675	7.398	...	
2755	$e^3H-^4F_{2.5}4f\ [3.5]^o$	4-4	1.20	19546.333	19540.998	0	5116.049 ^A	0	6.764	7.398	...	
	$e^3H-^4F_{2.5}4f\ [4.5]^o$	4-5	1.75	19545.840	19540.505	11	5116.178 ^A	-3	6.764	7.398	...	
	$e^3H-^4F_{2.5}4f\ [3.5]^o$	5-4	1.48	18502.274	18497.223	34	5404.741 ^B	-10	6.728	7.398	...	
	$e^3H-^4F_{2.5}4f\ [4.5]^o$	5-5	2.08	18501.795	18496.744	7	5404.881 ^A	-2	6.728	7.398	...	
2756	$e^3H-^4F_{1.5}4f\ [3.5]^o$	4-4	1.65	18547.356	18542.293	3	5391.604 ^A	-1	6.764	7.432	...	
2757	$Dsp3\ ^5D^o-58906^e$	3-4	1.00	19940.553	19935.111	16	5014.906 ^B	-4	6.681	7.303	...	
2758	$Dsp3\ ^5D^o-59390^e$	4-3	0.85	19648.870	19643.507	-31	5089.351 ^C	8	6.732	7.363	...	
		3-3	0.70	18184.595	18179.631	-10	5499.160 ^B	3	6.681	7.363	...	
2759	$s\ ^6D6s\ ^5D-s\ ^6D6p\ ^7F^o$	4-5	2.91	49430.046	49416.572	-171	2023.061 ^B	7	6.754	7.005	...	
		3-3	2.64	46250.623	46238.015	-107	2162.133 ^B	5	6.802	7.070	...	
		3-2	2.92	43944.589	43932.609	0	2275.593 ^A	0	6.802	7.084	...	
2760	$s\ ^6D6s\ ^5D-s\ ^6D6p\ ^7P^o$	3-2	2.90	43003.724	42992.000	18	2325.380 ^A	-1	6.802	7.090	...	
		4-3	2.98	41519.256	41507.936	-17	2408.521 ^A	1	6.754	7.053	...	
2761	$s\ ^6D6s\ ^5D-s\ ^6D6p\ ^5F^o$	0-1	2.71	46383.028	46370.383	0	2155.961 ^B	0	6.867	7.135	...	
		3-4	3.58	45464.589	45452.194	21	2199.514 ^A	-1	6.802	7.075	...	
		2-3	3.21	45255.892	45243.555	61	2209.657 ^A	-3	6.836	7.109	...	
		4-5	3.66	44895.817	44883.577	40	2227.379 ^D	-2	6.754	7.031	...	II
		1-1	2.40	44625.982	44613.817	139	2240.847 ^B	-7	6.857	7.135	...	
		1-2	3.07	44113.417	44101.391	39	2266.884 ^A	-2	6.857	7.138	...	
		2-2	2.57	41011.507	41000.326	84	2438.340 ^B	-5	6.836	7.138	...	
2762	$s\ ^6D6s\ ^5D-s\ ^6D6p\ ^5D^o$	1-2	2.46	47390.512	47377.593	67	2110.127 ^B	-3	6.857	7.118	...	
		4-4	3.62	44396.456	44384.353	0	2252.432 ^A	0	6.754	7.034	...	
		2-1	2.92	44111.588	44099.562	-39	2266.978 ^A	2	6.836	7.117	...	
		2-2	2.97	43829.141	43817.193	38	2281.587 ^B	-2	6.836	7.118	...	
		3-3	2.98	43408.373	43396.539	-57	2303.703 ^B	3	6.802	7.088	...	
2763	$s\ ^6D6s\ ^5D-s\ ^6D6p\ ^5P^o$	4-3	3.19	41815.792	41804.392	17	2391.441 ^A	-1	6.754	7.051	...	
		1-1	2.68	41053.532	41042.339	0	2435.844 ^B	0	6.857	7.159	...	
2764	$s\ ^6D6s\ ^5D-s\ ^4D5p\ ^5D^o$	3-3	1.92	31558.912	31550.306	-20	3168.677 ^B	2	6.802	7.195	...	
		4-3	1.92	28140.445	28132.770	-8	3553.604 ^B	1	6.754	7.195	...	
2765	$s\ ^6D6s\ ^5D-s\ ^4D5p\ ^5F^o$	4-5	2.13	27269.474	27262.037	0	3667.104 ^B	0	6.754	7.209	...	
2766	$f\ ^3F-^4F_{4.5}4f\ [5.5]^o$	4-5	2.24	24891.027	24884.237	-6	4017.512 ^A	1	6.780	7.278	...	
	$f\ ^3F-^4F_{4.5}4f\ [4.5]^o$	4-4	1.94	24865.793	24859.010	12	4021.589 ^B	-2	6.780	7.278	...	
	$f\ ^3F-^4F_{4.5}4f\ [3.5]^o$	4-3	1.98	24805.740	24798.973	6	4031.325 ^C	-1	6.780	7.279	...	
	$f\ ^3F-^4F_{4.5}4f\ [2.5]^o$	4-3	1.81	24778.750	24771.991	12	4035.716 ^A	-2	6.780	7.280	...	
2767	$f\ ^3F-^4F_{3.5}4f\ [3.5]^o$	3-3	1.62	24151.456	24144.868	12	4140.537 ^B	-2	6.834	7.348	...	
	$f\ ^3F-^4F_{3.5}4f\ [3.5]^o$	3-4	1.84	24149.899	24143.311	12	4140.804 ^B	-2	6.834	7.348	...	
	$f\ ^3F-^4F_{3.5}4f\ [4.5]^o$	4-4	1.46	21838.948	21832.989	10	4578.975 ^D	-2	6.780	7.347	...	II
	$f\ ^3F-^4F_{3.5}4f\ [5.5]^o$	4-5	1.40	21825.936	21819.980	-14	4581.705 ^B	3	6.780	7.348	...	
	$f\ ^3F-^4F_{3.5}4f\ [3.5]^o$	4-4	1.72	21822.525	21816.571	0	4582.421 ^B	0	6.780	7.348	...	
2768	$f\ ^3F-^4F_{2.5}4f\ [3.5]^o$	3-4	1.70	21994.805	21988.804	0	4546.528 ^B	0	6.834	7.398	...	
	$f\ ^3F-^4F_{2.5}4f\ [3.5]^o$	3-3	1.77	21992.387	21986.386	-19	4547.028 ^C	4	6.834	7.398	...	
	$f\ ^3F-^4F_{2.5}4f\ [3.5]^o$	4-4	1.20	20047.544	20042.073	8	4988.142 ^B	-2	6.780	7.398	...	
	$f\ ^3F-^4F_{2.5}4f\ [4.5]^o$	4-5	1.79	20047.006	20041.535	8	4988.276 ^B	-2	6.780	7.398	...	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
2769	$f^3F-^4F_{1,5}4f$ [3.5] ^o	3-4	2.00	20737.921	20732.262	0	4822.084 ^A	0	6.834	7.432	...	
	$f^3F-^4F_{1,5}4f$ [2.5] ^o	3-3	1.08	20714.260	20708.608	13	4827.592 ^B	-3	6.834	7.433	...	
2770	$e^3P-^4F_{3,5}4f$ [3.5] ^o	2-3	1.68	22800.898	22794.678	10	4385.792 ^A	-2	6.804	7.348	...	
	$e^3P-^4F_{3,5}4f$ [2.5] ^o	2-2	1.86	22776.558	22770.343	-21	4390.479 ^A	4	6.804	7.348	...	
2771	$e^3P-^4F_{2,5}4f$ [3.5] ^o	2-3	1.57	20866.863	20861.169	-35	4792.287 ^C	8	6.804	7.398	...	
	$e^3P-^4F_{2,5}4f$ [2.5] ^o	2-3	1.15	20835.282	20829.596	0	4799.551 ^B	0	6.804	7.399	...	
2772	$e^3P-^4F_{1,5}4f$ [2.5] ^o	2-3	0.48	19712.800	19707.420	12	5072.846 ^B	-3	6.804	7.433	...	
2773	$s^6D5d^5F-s^6D_{3,5}5f$ [6.5] ^o	5-6	2.67	34385.459	34376.083	0	2908.206 ^C	0	7.037	7.398	...	
2774	$s^6D5d^7D-s^6D_{4,5}5f$ [5.5] ^o	5-6	2.90	35179.804	35170.211	12	2842.540 ^B	-1	6.996	7.349	...	
2775	$s^6D5d^7F-s^6D_{4,5}5f$ [5.5] ^o	6-6	2.71	35129.825	35120.247	12	2846.584 ^C	-1	6.996	7.349	...	
	$s^6D5d^7F-s^6D_{4,5}5f$ [6.5] ^o	6-7	3.07	35094.110	35084.541	0	2849.481 ^B	0	6.996	7.349	...	
2776	$s^6D5d^7F-s^6D_{3,5}5f$ [6.5] ^o	5-6	2.61	35368.670	35359.027	-138	2827.361 ^D	11	7.047	7.398	...	I
2777	$s^6D5d^7P-s^6D_{3,5}5f$ [5.5] ^o	4-5	2.78	35467.495	35457.824	75	2819.483 ^A	-6	7.048	7.397	...	
2778	$s^6D5d^7G-s^6D_{4,5}5f$ [7.5] ^o	7-8	3.54	36305.969	36296.070	119	2754.368 ^A	-9	7.009	7.351	...	
2779	$s^6D5d^7G-s^6D_{3,5}5f$ [5.5] ^o	4-5	3.66	39870.659	39859.789	-64	2508.110 ^D	4	7.086	7.397	...	II
	$s^6D5d^7G-s^6D_{3,5}5f$ [5.5] ^o	6-5	2.90	35854.489	35844.713	-51	2789.051 ^D	4	7.051	7.397	...	I
	$s^6D5d^7G-s^6D_{3,5}5f$ [6.5] ^o	6-7	3.22	35789.840	35780.082	-26	2794.089 ^B	2	7.051	7.398	...	
2780	$s^6D5d^5F-s^6D_{3,5}5f$ [6.5] ^o	5-6	2.67	34385.459	34376.083	0	2908.206 ^C	0	7.037	7.398	...	
2781	$s^6D_{4,5}4f$ [1.5] ^o - $s^6D_{4,5}5g$ [1.5]	1-1	2.46	39285.707	39274.996	46	2545.455 ^D	-3	7.041	7.357	0.11 ^d	I
	$s^6D_{4,5}4f$ [1.5] ^o - $s^6D_{4,5}5g$ [1.5]	1-2	2.46	39285.707	39274.996	93	2545.455 ^D	-6	7.041	7.357	-0.56 ^d	I
	$s^6D_{4,5}4f$ [1.5] ^o - $s^6D_{4,5}5g$ [0.5]	1-0	2.46	39267.257	39256.551	-15	2546.651 ^C	1	7.041	7.357	...	
	$s^6D_{4,5}4f$ [1.5] ^o - $s^6D_{4,5}5g$ [1.5]	2-2	2.75	39255.835	39245.132	-92	2547.392 ^D	6	7.041	7.357	0.27 ^d	I
	$s^6D_{4,5}4f$ [1.5] ^o - $s^6D_{4,5}5g$ [1.5]	2-1	2.75	39255.835	39245.132	-139	2547.392 ^D	9	7.041	7.357	-0.67 ^d	I
	$s^6D_{4,5}4f$ [1.5] ^o - $s^6D_{4,5}5g$ [0.5]	2-1	2.85	39237.844	39227.146	0	2548.560 ^C	0	7.041	7.357	...	
	$s^6D_{4,5}4f$ [7.5] ^o - $s^6D_{4,5}5g$ [7.5]	8-8	3.13	39177.461	39166.780	-107	2552.488 ^B	7	7.039	7.356	0.34 ^d	
	$s^6D_{4,5}4f$ [7.5] ^o - $s^6D_{4,5}5g$ [7.5]	7-7	3.13	39177.461	39166.780	-107	2552.488 ^B	7	7.039	7.356	0.28 ^d	
	$s^6D_{4,5}4f$ [2.5] ^o - $s^6D_{4,5}5g$ [3.5]	2-3	2.62	39158.514	39147.838	0	2553.723 ^B	0	7.040	7.356	0.21 ^d	
	$s^6D_{4,5}4f$ [2.5] ^o - $s^6D_{4,5}5g$ [2.5]	2-2	2.83	39126.952	39116.285	0	2555.783 ^B	0	7.040	7.356	0.37 ^d	
	$s^6D_{4,5}4f$ [2.5] ^o - $s^6D_{4,5}5g$ [3.5]	3-4	2.69	39123.707	39113.040	15	2555.995 ^B	-1	7.039	7.356	0.37 ^d	
	$s^6D_{4,5}4f$ [7.5] ^o - $s^6D_{4,5}5g$ [8.5]	8-9	4.03	39109.125	39098.462	-76	2556.948 ^D	5	7.039	7.356	1.04 ^d	I
	$s^6D_{4,5}4f$ [7.5] ^o - $s^6D_{4,5}5g$ [8.5]	7-8	4.03	39109.125	39098.462	46	2556.948 ^D	-3	7.039	7.356	0.99 ^d	I
	$s^6D_{4,5}4f$ [2.5] ^o - $s^6D_{4,5}5g$ [1.5]	2-2	2.50	39099.965	39089.305	0	2557.547 ^D	0	7.040	7.357	...	I
	$s^6D_{4,5}4f$ [2.5] ^o - $s^6D_{4,5}5g$ [1.5]	2-1	2.50	39099.965	39089.305	-46	2557.547 ^D	3	7.040	7.357	...	I
	$s^6D_{4,5}4f$ [2.5] ^o - $s^6D_{4,5}5g$ [2.5]	3-3	2.97	39092.200	39081.542	31	2558.055 ^B	-2	7.039	7.356	...	
	$s^6D_{4,5}4f$ [2.5] ^o - $s^6D_{4,5}5g$ [1.5]	3-2	2.52	39065.292	39054.641	76	2559.817 ^C	-5	7.039	7.357	...	
	$s^6D_{4,5}4f$ [3.5] ^o - $s^6D_{4,5}5g$ [4.5]	3-4	2.88	38982.752	38972.124	0	2565.237 ^B	0	7.038	7.356	...	
	$s^6D_{4,5}4f$ [3.5] ^o - $s^6D_{4,5}5g$ [4.5]	4-5	2.97	38963.235	38952.612	15	2566.522 ^B	-1	7.038	7.356	...	
	$s^6D_{4,5}4f$ [3.5] ^o - $s^6D_{4,5}5g$ [3.5]	3-3	2.93	38952.838	38942.218	15	2567.207 ^B	-1	7.038	7.356	...	
	$s^6D_{4,5}4f$ [3.5] ^o - $s^6D_{4,5}5g$ [3.5]	4-4	2.82	38933.381	38922.766	15	2568.490 ^D	-1	7.038	7.356	0.52 ^d	I
	$s^6D_{4,5}4f$ [3.5] ^o - $s^6D_{4,5}5g$ [3.5]	4-3	2.82	38933.381	38922.766	45	2568.490 ^D	-3	7.038	7.356	-0.12 ^d	I
	$s^6D_{4,5}4f$ [3.5] ^o - $s^6D_{4,5}5g$ [2.5]	4-3	2.88	38902.195	38891.589	61	2570.549 ^B	-4	7.038	7.356	0.24 ^d	
	$s^6D_{4,5}4f$ [6.5] ^o - $s^6D_{4,5}5g$ [6.5]	6-6	3.05	38862.993	38852.397	15	2573.142 ^B	-1	7.037	7.356	...	
	$s^6D_{4,5}4f$ [6.5] ^o - $s^6D_{4,5}5g$ [7.5]	6-7	3.54	38838.420	38827.831	15	2574.770 ^A	-1	7.037	7.356	0.99 ^d	
	$s^6D_{4,5}4f$ [4.5] ^o - $s^6D_{4,5}5g$ [5.5]	4-5	3.21	38835.539	38824.951	30	2574.961 ^B	-2	7.036	7.356	0.72 ^d	
	$s^6D_{4,5}4f$ [4.5] ^o - $s^6D_{4,5}5g$ [5.5]	5-6	3.36	38832.417	38821.830	15	2575.168 ^B	-1	7.036	7.356	0.71 ^d	
	$s^6D_{4,5}4f$ [6.5] ^o - $s^6D_{4,5}5g$ [6.5]	7-7	2.89	38827.095	38816.509	-75	2575.521 ^B	5	7.036	7.356	0.51 ^d	
	$s^6D_{4,5}4f$ [4.5] ^o - $s^6D_{4,5}5g$ [4.5]	4-5	3.07	38814.421	38803.838	-75	2576.362 ^B	5	7.036	7.356	0.58 ^d	
	$s^6D_{4,5}4f$ [4.5] ^o - $s^6D_{4,5}5g$ [4.5]	5-5	3.24	38811.438	38800.857	45	2576.560 ^B	-3	7.036	7.356	...	
	$s^6D_{4,5}4f$ [6.5] ^o - $s^6D_{4,5}5g$ [7.5]	7-8	3.64	38802.658	38792.079	-30	2577.143 ^A	2	7.036	7.356	1.06 ^d	
	$s^6D_{4,5}4f$ [5.5] ^o - $s^6D_{4,5}5g$ [6.5]	5-6	3.45	38781.530	38770.957	0	2578.547 ^A	0	7.036	7.356	0.84 ^d	
	$s^6D_{4,5}4f$ [5.5] ^o - $s^6D_{4,5}5g$ [5.5]	5-5	3.05	38777.786	38767.213	0	2578.796 ^B	0	7.036	7.356	0.61 ^d	
	$s^6D_{4,5}4f$ [5.5] ^o - $s^6D_{4,5}5g$ [6.5]	6-7	3.49	38748.500	38737.936	45	2580.745 ^A	-3	7.036	7.356	0.94 ^d	

TABLE 2—Continued

No.	Multiplet (MT) ¹	J-J	I ²	λ_{vac}^3 (Å)	λ_{air}^3 (Å)	o-R ⁴ (mÅ)	σ^5 (cm ⁻¹)	o-R ⁶ (mK)	E(l) (eV)	E(u) (eV)	log(gf) ⁷	Bl. ⁸
	<i>s</i> ⁶ D _{4.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{4.5} 5 <i>g</i> [5.5]	6–6	3.15	38744.747	38734.184	-15	2580.995 ^B	1	7.036	7.356	0.68 ^d	
	<i>s</i> ⁶ D _{4.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{4.5} 5 <i>g</i> [4.5]	6–5	2.24	38723.907	38713.350	60	2582.384 ^B	-4	7.036	7.356	...	
2782	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [0.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [1.5]	0–1	2.93	39030.818	39020.176	-46	2562.078 ^D	3	7.086	7.404	...	I
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [1.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [1.5]	2–2	2.50	39003.796	38993.162	167	2563.853 ^C	-11	7.086	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [6.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [6.5]	6–6	2.66	39002.777	38992.143	-122	2563.920 ^C	8	7.086	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [6.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [7.5]	6–7	3.72	38989.850	38979.220	46	2564.770 ^A	-3	7.086	7.404	1.08 ^d	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [2.5]	2–2	3.32	38981.233	38970.605	152	2565.337 ^D	-10	7.086	7.404	...	I
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [1.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [2.5]	1–2	2.44	38978.847	38968.220	15	2565.494 ^C	-1	7.086	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [6.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [7.5]	7–8	3.57	38977.100	38966.473	15	2565.609 ^A	-1	7.086	7.404	1.10 ^d	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [1.5]	2–1	2.95	38975.353	38964.727	-76	2565.724 ^D	5	7.086	7.404	...	I
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [1.5]	2–2	2.95	38975.353	38964.727	-76	2565.724 ^D	5	7.086	7.404	...	I
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [4.5]	3–4	2.76	38952.262	38941.642	0	2567.245 ^B	0	7.085	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [3.5]	3–4	2.86	38948.620	38938.002	-15	2567.485 ^B	1	7.085	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [3.5]	3–3	3.12	38946.588	38935.969	0	2567.619 ^B	0	7.085	7.404	0.49 ^d	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [5.5]	4–5	2.94	38945.632	38935.014	15	2567.682 ^B	-1	7.085	7.404	0.58 ^d	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [4.5]	4–5	3.63	38943.403	38932.785	-30	2567.829 ^D	2	7.085	7.404	...	Ne
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [2.5]	3–3	3.02	38941.992	38931.375	15	2567.922 ^C	-1	7.085	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [2.5]	3–2	3.03	38940.036	38929.420	136	2568.051 ^D	-9	7.085	7.404	0.45 ^d	I
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [2.5]	3–3	3.03	38940.036	38929.420	212	2568.051 ^D	-14	7.085	7.404	0.00 ^d	I
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [3.5]	4–4	2.42	38937.580	38926.964	30	2568.213 ^B	-2	7.085	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [5.5]	5–5	2.88	38925.545	38914.933	76	2569.007 ^B	-5	7.085	7.404	0.40 ^d	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [6.5]	5–6	3.43	38921.182	38910.571	45	2569.295 ^A	-3	7.085	7.404	1.00 ^d	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [5.5]	4–5	2.84	38916.138	38905.528	-45	2569.628 ^D	3	7.085	7.404	0.35 ^d	I
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [4.5]	4–5	3.37	38914.094	38903.484	76	2569.763 ^A	-5	7.085	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [5.5]	6–6	2.77	38910.187	38899.579	61	2570.021 ^B	-4	7.085	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [6.5]	6–7	3.56	38905.767	38895.160	45	2570.313 ^A	-3	7.085	7.404	1.00 ^d	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [5.5]	5–6	3.40	38895.220	38884.615	30	2571.010 ^A	-2	7.085	7.404	...	
	<i>s</i> ⁶ D _{3.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{3.5} 5 <i>g</i> [4.5]	5–5	3.68	38893.087	38882.483	61	2571.151 ^D	-4	7.085	7.404	...	I
2783	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [4.5]	3–4	2.93	39030.818	39020.176	-15	2562.078 ^D	1	7.121	7.439	...	I
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [5.5]	4–5	3.35	39030.239	39019.597	30	2562.116 ^A	-2	7.121	7.439	...	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [4.5]	4–4	2.88	39026.583	39015.943	-228	2562.356 ^D	15	7.121	7.439	...	I
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [4.5]	4–5	2.88	39026.583	39015.943	0	2562.356 ^D	0	7.121	7.439	...	I
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [5.5]	5–6	3.48	39010.445	38999.809	46	2563.416 ^A	-3	7.121	7.439	1.05 ^d	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [5.5]	4–5	3.24	39008.695	38998.060	137	2563.531 ^A	-9	7.121	7.439	...	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [4.5]	5–5	2.45	39006.869	38996.234	0	2563.651 ^C	0	7.121	7.439	...	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [4.5]	4–5	3.36	39004.982	38994.348	46	2563.775 ^D	-3	7.121	7.439	...	I
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [2.5]	3–3	3.36	38962.658	38952.035	-152	2566.560 ^D	10	7.121	7.439	...	I
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [3.5]	3–4	2.46	38942.447	38931.830	61	2567.892 ^C	-4	7.121	7.439	...	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [2.5]	2–2	2.67	38936.655	38926.039	61	2568.274 ^D	-4	7.120	7.439	...	I
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [2.5]	2–3	2.67	38936.655	38926.039	121	2568.274 ^D	-8	7.120	7.439	...	I
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [6.5]	5–6	3.52	38908.810	38898.202	0	2570.112 ^A	0	7.120	7.439	1.04 ^d	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [1.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [1.5]	2–2	2.88	38902.195	38891.589	45	2570.549 ^B	-3	7.120	7.439	...	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [6.5]	6–7	3.68	38893.087	38882.483	-15	2571.151 ^A	1	7.120	7.439	...	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [1.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [2.5]	2–3	3.05	38882.954	38872.353	15	2571.821 ^B	-1	7.120	7.439	...	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [5.5]	5–5	2.20	38876.515	38865.916	-60	2572.247 ^B	4	7.120	7.439	...	
	<i>s</i> ⁶ D _{2.5} 4 <i>f</i> [5.5] ^o — <i>s</i> ⁶ D _{2.5} 5 <i>g</i> [5.5]	6–6	2.62	38860.833	38850.238	-30	2573.285 ^C	2	7.120	7.439	...	
2784	<i>s</i> ⁶ D _{1.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{1.5} 5 <i>g</i> [4.5]	3–4	3.18	39130.382	39119.713	-31	2555.559 ^B	2	7.147	7.463	...	
	<i>s</i> ⁶ D _{1.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{1.5} 5 <i>g</i> [4.5]	4–5	3.32	39112.536	39101.873	-15	2556.725 ^B	1	7.146	7.463	0.97 ^d	
	<i>s</i> ⁶ D _{1.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{1.5} 5 <i>g</i> [2.5]	2–2	2.45	39070.390	39059.738	107	2559.483 ^C	-7	7.145	7.463	...	
	<i>s</i> ⁶ D _{1.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{1.5} 5 <i>g</i> [3.5]	2–3	3.36	39004.982	38994.348	76	2563.775 ^A	-5	7.145	7.463	...	
	<i>s</i> ⁶ D _{1.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{1.5} 5 <i>g</i> [3.5]	3–4	3.32	38981.233	38970.605	0	2565.337 ^A	0	7.145	7.463	...	
	<i>s</i> ⁶ D _{1.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{1.5} 5 <i>g</i> [5.5]	4–5	3.22	38884.179	38873.578	15	2571.740 ^A	-1	7.144	7.463	0.97 ^d	
	<i>s</i> ⁶ D _{1.5} 4 <i>f</i> [4.5] ^o — <i>s</i> ⁶ D _{1.5} 5 <i>g</i> [5.5]	5–6	3.60	38866.935	38856.338	0	2572.881 ^A	0	7.144	7.463	...	
2785	<i>s</i> ⁶ D _{0.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{0.5} 5 <i>g</i> [4.5]	3–4	3.72	38989.850	38979.220	15	2564.770 ^A	-1	7.159	7.477	...	
	<i>s</i> ⁶ D _{0.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{0.5} 5 <i>g</i> [3.5]	2–3	2.78	38965.846	38955.222	15	2566.350 ^B	-1	7.159	7.477	0.74 ^d	
	<i>s</i> ⁶ D _{0.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{0.5} 5 <i>g</i> [4.5]	4–5	3.36	38962.658	38952.035	15	2566.560 ^D	-1	7.159	7.477	...	I
	<i>s</i> ⁶ D _{0.5} 4 <i>f</i> [3.5] ^o — <i>s</i> ⁶ D _{0.5} 5 <i>g</i> [3.5]	4–4	2.87	38962.172	38951.549	-152	2566.592 ^B	10	7.159	7.477	...	
	<i>s</i> ⁶ D _{0.5} 4 <i>f</i> [2.5] ^o — <i>s</i> ⁶ D _{0.5} 5 <i>g</i> [3.5]	3–4	3.26	38961.125	38950.502	30	2566.661 ^B	-2	7.159	7.477	...	

¹ *: denotes multiplet is different from MT.² Intensity in arbitrary units. These are given as log (*I*) to two decimal places for FT spectra. Grating intensities are on a different scale to the FT

TABLE 2—*Continued*

intensities and are from the continuous hollow cathode spectra, except those in italics, which are from the pulsed hollow cathode. Symbols are d: diffuse; b: blended; *: unresolved; ?: questionable.

³ Wavelengths measured in FT spectra are given to 4 decimal places, and those measured in grating spectra to three decimal places in the UV. No grating spectra were recorded above 3250 Å.

⁴ Difference between observed wavelength and the Ritz wavelength derived from the energy levels in Table 1. This difference should be subtracted from the wavelengths in cols. (5) or (6) (footnote 3) to obtain the Ritz wavelength.

⁵ Wavenumbers measured in FT spectra are given to 3 decimal places and those measured in grating spectra to two decimal places. A: Uncertainty of wavenumber $< 0.005 \text{ cm}^{-1}$; B: uncertainty $< 0.01 \text{ cm}^{-1}$; C: uncertainty $< 0.02 \text{ cm}^{-1}$; D: uncertainty $> 0.02 \text{ cm}^{-1}$ or blended line. Wavelength uncertainties are given in table 3.

⁶ Difference between observed wavenumber and the Ritz wavenumber derived from the energy levels in Table 1. This difference should be subtracted from the wavenumber in column 8 (footnote 5) to obtain the Ritz wavenumber.

⁷ Sources for $\log(gf)$ values are a: O'Brien et al. 1991; b: Fuhr et al. 1988; c: Meylan et al. 1992; d: Johansson et al. 1993.

⁸ I: Line blended with another Fe I transition; II: Line blended with Fe II transition; Ne: Line blended with Ne line; Ar: Line blended with Ar line; R: Line is self-reversed. Ritz wavelengths and wavenumber are given; M: Line is masked by another line of the given species.

TABLE 4
FINDING LIST

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
1704.320	58674.43	84	1862.3257	53696.301	74	1946.9880	51361.386	55	2006.245	49828.24	163
1704.845	58656.36	84	1863.543	53661.23	64	1949.1427	51304.608	56	2006.318	49826.42	167
1709.944	58481.44	83	1864.1918	53642.549	67	1949.6072	51292.383	58	2006.464	49822.81	167
1710.216	58472.15	84	1864.3215	53638.818	71	1950.2270	51276.082	57	2007.179	49805.06	49
1712.289	58401.35	84	1864.7465	53626.591	64	1950.646	51265.07	59	2007.2194	49804.053	166
1712.852	58382.16	84	1865.3093	53610.413	67	1951.5708	51240.776	57	2008.233	49778.91	165
1716.486	58258.56	84	1865.612	53601.72	61	1952.2685	51222.462	57	2008.478	49772.84	169
1717.703	58217.28	84	1866.0621	53588.786	74	1952.5886	51214.064	55	2008.505	49772.17	169
1718.148	58202.20	83	1866.1414	53586.508	63	1953.0051	51203.142	53	2008.553	49771.00	169
1719.777	58147.07	83	1866.191	53585.08	66	1955.7022	51132.528	57	2009.031	49759.14	173
1721.484	58089.41	83	1866.8190	53567.056	74	1956.0345	51123.843	55	2010.248	49729.03	50
1722.195	58065.43	83	1869.2606	53497.090	72	1956.0512	51123.405	53	2011.441	49699.54	171
1722.542	58053.74	83	1870.011	53475.62	72	1957.8429	51076.622	55	2011.926	49687.57	165
1723.141	58033.56	82	1870.3520	53465.872	68	1958.5691	51057.683	53	2013.441	49650.19	163
1725.011	57970.65	84	1871.8913	53421.906	71	1958.6086	51056.652	57	2014.940	49613.25	164
1726.678	57914.68	82	1872.3709	53408.221	74	1958.7331	51053.408	55	2015.782	49592.53	49
1729.616	57816.30	82	1873.0576	53388.641	64	1960.1441	51016.658	53	2016.5089	49574.654	163
1731.184	57763.93	82	1873.2581	53382.927	74	1960.621	51004.25	58	2017.159	49558.68	49
1735.576	57617.76	82	1874.897	53336.26	64	1961.0464	50993.183	54	2019.075	49511.66	164
1757.829	56888.35	77	1875.1588	53328.817	66	1961.2458	50988.000	57	2019.775	49494.50	168
1758.355	56871.34	80	1875.697	53313.52	65	1962.0254	50967.741	53	2020.452	49477.92	172
1758.443	56868.49	78	1876.1476	53300.710	74	1962.1108	50965.521	53	2021.099	49462.09	164
1758.914	56853.26	80	1876.4197	53292.981	74	1962.7333	50949.357	56	2021.444	49453.65	171
1761.700	56763.35	80	1877.1685	53271.722	72	1962.8836	50945.456	55	2021.714	49447.03	171
1762.037	56752.50	79	1878.1045	53245.174	64	1963.1043	50939.728	55	2021.9830	49440.460	166
1762.666	56732.25	79	1878.8480	53224.104	74	1963.1218	50939.274	53	2022.415	49429.90	166
1762.910	56724.40	76	1879.3807	53209.017	72	1963.6337	50925.994	55	2022.779	49421.01	169
1763.304	56711.72	79	1880.1407	53187.510	72	1964.0551	50915.069	53	2023.013	49415.28	166
1763.444	56707.22	78	1881.3115	53154.408	64	1965.076	50888.62	56	2024.067	49389.57	49
1764.156	56684.33	78	1882.036	53133.94	71	1966.580	50849.70	55	2024.135	49387.91	167
1765.275	56648.40	78	1883.6799	53087.577	72	1967.127	50835.56	174	2024.692	49374.31	167
1765.471	56642.11	81	1883.7789	53084.785	64	1970.760	50741.85	55	2025.361	49358.02	165
1765.542	56639.83	78	1883.9226	53080.736	67	1973.9163	50660.709	55	2025.4616	49355.560	166
1768.611	56541.55	77	1884.684	53059.29	69	1974.057	50657.11	55	2025.823	49346.75	170
1769.385	56516.81	75	1885.1767	53045.426	62	1975.178	50628.36	52	2026.261	49336.09	165
1769.820	56502.92	76	1885.741	53029.55	176	1976.190	50602.42	174	2026.491	49330.49	165
1775.684	56316.33	79	1885.9074	53024.873	72	1979.769	50510.94	171	2028.464	49282.52	168
1841.582	54301.14	72	1887.047	52992.85	68	1980.776	50485.27	52	2028.719	49276.32	171
1841.9940	54288.993	66	1887.7648	52972.702	64	1984.634	50387.13	174	2029.955	49246.32	166
1847.9266	54114.703	67	1888.3221	52957.068	64	1987.957	50302.90	50	2031.687	49204.36	164
1848.318	54103.24	71	1889.640	52920.13	70	1991.044	50224.90	169	2034.214	49143.23	168
1851.248	54017.61	61	1889.8979	52912.910	66	1991.255	50219.59	169	2034.347	49140.02	162
1851.3804	54013.752	68	1891.7440	52861.276	62	1991.540	50212.40	52	2034.555	49135.00	48
1851.688	54004.78	74	1892.689	52834.88	68	1992.146	50197.13	52	2034.920	49126.19	163
1851.770	54002.39	66	1892.853	52830.31	70	1992.599	50185.70	52	2037.452	49065.14	51
1852.424	53983.32	73	1896.8581	52718.757	68	1994.5705	50136.107	165	2038.685	49035.47	164
1853.8610	53941.476	61	1899.2089	52653.501	62	1997.507	50062.40	171	2039.984	49004.25	166
1854.3644	53926.834	71	1903.3950	52537.703	62	1997.560	50061.07	171	2043.491	48920.16	170
1855.3174	53899.132	67	1917.4069	52153.772	60	1997.560	50061.07	171	2044.936	48885.60	168
1855.5792	53891.530	72	1924.220	51969.11	59	1997.9134	50052.219	50	2047.248	48830.40	263
1855.9142	53881.802	68	1927.483	51881.13	59	1999.319	50017.04	50	2047.402	48826.73	48
1856.2151	53873.068	66	1930.701	51794.66	60				2058.105	48572.85	262
1856.930	53852.32	63	1933.757	51712.81	175				2072.059	48245.77	263
1857.296	53841.72	63	1934.5351	51692.006	57	λ_{air}	σ	No.	2072.693	48231.03	46
1857.4308	53837.807	71	1937.2685	51619.072	53	2000.578	49969.37	170	2074.1888	48196.245	261
1857.724	53829.31	176	1939.741	51553.27	59	2000.671	49967.05	165	2077.348	48122.95	43
1857.8164	53826.631	67	1940.6604	51528.850	57	2002.3800	49924.403	52	2077.5030	48119.368	261
1858.106	53818.24	66	1941.400	51509.22	60	2003.605	49893.88	172	2084.1213	47966.581	45
1859.2635	53784.738	67	1945.0913	51411.468	53	2003.728	49890.81	172	2085.020	47945.90	46
1861.0329	53733.601	68	1945.2758	51406.593	57	2003.8697	49887.294	50	2085.712	47930.01	43
1861.542	53718.91	63	1946.2278	51381.446	53	2005.297	49851.79	50	2087.5111	47888.701	47
1861.675	53715.07	67	1946.8391	51365.312	56	2005.594	49844.41	165	2089.8739	47834.565	44
						2006.2445	49828.250	167			

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
2090.3833	47822.910	43	2142.5663	46658.301	151	2166.5860	46141.085	151	2200.086	45438.58	258
2090.8548	47812.127	44	2142.8317	46652.522	158	2166.7733	46137.096	32	2200.3520	45433.089	32
2090.8548	47812.127	47	2143.3693	46640.823	149	2167.2762	46126.391	161	2200.3900	45432.306	32
2093.6848	47747.508	45	2143.550	46636.89	156	2167.3862	46124.051	151	2200.4915	45430.210	149
2095.4641	47706.970	43	2143.8965	46629.355	149	2167.526	46121.08	257	2200.577	45428.44	30
2098.1197	47646.593	43	2144.4486	46617.350	155	2168.0566	46109.790	158	2200.7243	45425.405	32
2098.9390	47627.998	47	2144.5682	46614.751	158	2168.3778	46102.961	151	2201.1180	45417.281	31
2099.6660	47611.508	261	2145.1896	46601.250	38	2169.9437	46069.694	152	2204.074	45356.37	257
2099.9042	47606.109	43	2146.2822	46577.529	42	2170.5299	46057.253	256	2206.440	45307.75	260
2100.1464	47600.620	47	2146.7207	46568.017	38	2170.5544	46056.733	152	2207.0686	45294.842	30
2100.614	47590.03	39	2147.0455	46560.972	154	2170.5544	46056.733	155	2208.723	45260.92	31
2100.7978	47585.860	45	2147.479	46551.57	154	2171.2340	46042.320	259	2210.6885	45220.681	29
2102.3538	47550.647	45	2147.7884	46544.869	155	2171.2972	46040.980	35	2211.2355	45209.496	31
2102.9105	47538.059	47	2148.4032	46531.551	40	2171.3703	46039.429	259	2213.481	45163.63	260
2103.0531	47534.837	43	2148.4929	46529.609	151	2172.1424	46023.066	34	2214.257	45147.81	254
2103.061	47534.66	261	2149.1787	46514.763	159	2172.225	46021.32	150	2217.585	45080.06	254
2103.9721	47514.075	43	2149.627	46505.06	156	2172.5848	46013.696	34	2217.7431	45076.848	31
2106.2602	47462.467	43	2149.6296	46505.008	156	2172.6709	46011.872	152	2220.9151	45012.474	30
2106.3948	47459.434	45	2150.1848	46493.000	36	2173.2137	46000.381	35	2221.318	45004.32	255
2106.693	47452.72	41	2151.0024	46475.330	151	2173.469	45994.98	156	2222.071	44989.06	254
2108.1371	47420.215	39	2151.0995	46473.232	35	2173.543	45993.41	257	2222.7633	44975.050	253
2108.1939	47418.938	43	2151.0995	46473.232	36	2173.706	45989.97	159	2223.767	44954.76	148
2108.3028	47416.488	47	2151.6954	46460.363	152	2174.1430	45980.722	150	2227.868	44872.00	148
2108.9591	47401.734	45	2152.2488	46448.418	155	2175.239	45957.55	161	2228.1717	44865.895	29
2110.2354	47373.069	159	2153.0067	46432.071	38	2175.4991	45952.063	154	2228.5175	44858.933	30
2111.2323	47350.702	43	2154.1246	46407.977	155	2176.0234	45940.991	257	2229.0733	44847.749	29
2112.9688	47311.793	45	2154.4456	46401.063	257	2176.2281	45936.671	153	2231.101	44806.99	252
2113.0872	47309.142	160	2154.4690	46400.558	154	2176.4007	45933.028	152	2231.2132	44804.742	29
2114.5997	47275.308	45	2155.0198	46388.700	36	2176.677	45927.20	159	2234.4329	44740.187	254
2115.1701	47262.561	45	2155.2430	46383.896	38	2176.8402	45923.755	34	2237.817	44672.53	254
2117.798	47203.92	261	2155.6141	46375.913	155	2177.697	45905.68	159	2238.263	44663.63	29
2119.1366	47174.107	39	2155.6474	46375.197	258	2178.0807	45897.603	32	2240.6298	44616.460	252
2121.8688	47113.371	257	2155.8146	46371.601	149	2178.1186	45896.804	33	2242.5700	44577.863	29
2122.1785	47106.495	37	2156.4303	46358.362	259	2178.805	45882.34	155	2242.7808	44573.674	29
2122.7991	47092.725	36	2156.4952	46356.967	158	2178.982	45878.63	149	2243.908	44551.29	27
2122.957	47089.23	149	2157.7945	46329.055	35	2180.250	45851.94	158	2245.0735	44528.159	148
2123.1246	47085.508	156	2158.4745	46314.463	152	2180.869	45838.93	34	2245.6528	44516.674	29
2124.5016	47054.993	160	2158.5344	46313.178	38	2181.1407	45833.218	31	2247.244	44485.15	148
2125.324	47036.78	41	2158.6295	46311.136	34	2181.652	45822.48	157	2247.4608	44480.864	141
2126.2106	47017.175	38	2158.7349	46308.876	36	2181.7187	45821.077	159	2248.8602	44453.189	140
2126.6094	47008.358	37	2158.9201	46304.903	35	2183.4665	45784.403	34	2250.7904	44415.071	27
2126.8165	47003.781	40	2158.9978	46303.237	154	2183.9799	45773.642	259	2251.230	44406.40	251
2127.4741	46989.255	39	2159.150	46299.98	260	2184.4602	45763.577	150	2251.8733	44393.713	29
2127.8646	46980.633	149	2159.4311	46293.948	38	2185.2139	45747.795	156	2252.752	44376.40	143
2127.969	46978.33	154	2159.6375	46289.524	149	2186.2498	45726.122	31	2255.8611	44315.245	144
2130.4076	46924.559	159	2159.6558	46289.131	35	2186.4869	45721.163	32	2256.070	44311.14	146
2130.4405	46923.834	151	2159.8810	46284.305	152	2186.767	45715.31	260	2256.7549	44297.694	252
2130.9659	46912.267	154	2159.9237	46283.392	35	2186.8926	45712.683	33	2259.2826	44248.138	26
2132.0173	46889.136	36	2160.2383	46276.651	161	2187.119	45707.95	152	2259.5102	44243.682	27
2133.3135	46860.648	160	2160.4616	46271.869	151	2187.1945	45706.374	32	2259.5804	44242.308	140
2135.0996	46821.453	158	2161.5791	46247.949	38	2189.1878	45664.761	254	2260.5972	44222.409	252
2135.9607	46802.579	155	2162.2480	46233.644	155	2189.3886	45660.574	152	2260.8873	44216.736	144
2136.941	46781.11	36	2163.3667	46209.740	151	2190.7697	45631.791	259	2261.9970	44195.046	147
2138.0027	46757.882	151	2163.8624	46199.155	35	2190.8811	45629.471	150	2263.4743	44166.204	26
2138.5925	46744.988	35	2163.927	46197.78	34	2191.2043	45622.741	33	2264.3893	44148.359	142
2139.6981	46720.837	35	2164.3814	46188.077	158	2191.8391	45609.530	32	2265.0543	44135.399	27
2139.730	46720.15	38	2164.528	46184.96	159	2192.261	45600.75	154	2265.595	44124.87	144
2139.9346	46715.676	40	2164.5488	46184.506	35	2192.8234	45589.059	255	2265.758	44121.69	250
2141.0859	46690.558	37	2165.5352	46163.470	159	2193.4103	45576.861	150	2266.9059	44099.352	140
2141.4718	46682.145	155	2165.8615	46156.517	152	2193.5602	45573.748	254	2267.0847	44095.875	28
2141.7183	46676.774	36	2165.9913	46153.752	156	2196.0420	45522.249	32	2267.4695	44088.391	140
2142.1461	46667.452	42	2166.222	46148.84	151	2197.2342	45497.552	31	2269.0988	44056.737	26

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
2270.678	44026.10	147	2300.1418	43462.195	26	2391.8192	41796.445	235	2453.5690	40744.619	527
2270.8626	44022.522	26	2300.2514	43460.125	24	2392.656	41781.82	243	2456.7083	40692.557	238
2271.7830	44004.688	140	2300.5977	43453.583	247	2394.009	41758.22	135	2457.589	40677.97	526
2272.0696	43999.138	27	2301.1741	43442.701	24	2395.026	41740.48	244	2457.5967	40677.847	127
2272.6169	43988.543	143	2301.6839	43433.080	25	2395.1768	41737.858	239	2458.200	40667.86	341
2272.8193	43984.625	142	2303.4243	43400.265	27	2395.4952	41732.311	134	2458.5688	40661.765	124
2273.892	43963.88	144	2303.5806	43397.321	27	2395.746	41727.95	239	2460.075	40636.87	234
2274.0908	43960.034	140	2304.532	43379.41	143	2397.062	41705.03	134	2460.2594	40633.826	130
2274.0908	43960.034	26	2304.7351	43375.584	142	2398.227	41684.77	238	2460.3007	40633.143	526
2274.138	43959.12	144	2306.1740	43348.523	142	2398.705	41676.48	245	2461.0600	40620.609	457
2274.303	43955.93	144	2306.3823	43344.609	247	2401.1435	41634.150	240	2462.1810	40602.116	19
2275.1916	43938.768	26	2308.9989	43295.493	25	2404.639	41573.63	237	2462.6473	40594.428	19
2275.5969	43930.942	249	2313.1041	43218.662	25	2408.0451	41514.833	134	2463.3966	40582.081	341
2275.679	43929.36	247	2313.5641	43210.070	139	2408.0610	41514.560	135	2463.7304	40576.583	131
2275.758	43927.84	143	2317.8980	43129.284	250	2411.558	41454.37	132	2465.1492	40553.231	127
2276.0258	43922.664	25	2318.1869	43123.910	138	2411.9647	41447.375	134	2465.392	40549.23	341
2277.1004	43901.939	142	2320.3577	43083.568	25	2412.180	41443.68	246	2466.2823	40534.602	459
2277.6671	43891.016	140	2323.4220	43026.751	24	2412.769	41433.56	130	2466.6967	40527.792	458
2277.7147	43890.099	252	2323.4220	43026.751	463	2414.002	41412.39	238	2466.897	40524.50	126
2278.623	43872.61	26	2323.623	43023.03	22	2417.498	41352.52	239	2467.5689	40513.468	457
2278.780	43869.58	27	2325.319	42991.65	23	2418.787	41330.48	244	2467.5689	40513.468	459
2279.153	43862.40	251	2328.855	42926.38	138	2419.0630	41325.764	133	2467.7335	40510.765	127
2279.9371	43847.321	27	2329.6406	42911.909	22	2419.4017	41319.980	691	2468.8799	40491.957	124
2280.2100	43842.073	142	2329.742	42910.04	23	2419.8786	41311.836	135	2469.008	40489.86	130
2280.2333	43841.626	140	2334.5240	42822.152	247	2420.3957	41303.012	130	2469.6679	40479.038	20
2281.629	43814.81	252	2339.6453	42728.425	461	2423.1052	41256.830	135	2469.9391	40474.593	525
2281.9932	43807.817	28	2340.025	42721.50	22	2426.315	41202.25	242	2470.9654	40457.783	128
2282.8644	43791.101	140	2341.595	42692.85	23	2427.1250	41188.505	236	2472.332	40435.42	129
2282.922	43790.00	144	2342.508	42676.21	137	2428.871	41158.90	527	2472.3411	40435.273	124
2283.0873	43786.826	142	2342.551	42675.43	138	2429.439	41149.27	135	2472.3411	40435.273	128
2283.3041	43782.669	26	2345.0275	42630.365	136	2429.8145	41142.918	135	2472.8713	40426.604	19
2283.6552	43775.938	26	2345.037	42630.19	462	2430.1900	41136.562	527	2472.8949	40426.218	19
2284.0856	43767.690	25	2345.494	42621.89	23	2431.0248	41122.437	414	2473.1568	40421.938	18
2286.443	43722.56	145	2345.563	42620.64	463	2432.343	41100.15	238	2474.8144	40394.866	127
2287.2496	43707.150	25	2346.308	42607.11	22	2432.4174	41098.896	130	2474.943	40392.76	236
2287.2930	43706.322	144	2350.413	42532.69	21	2433.0677	41087.911	135	2475.4672	40384.213	525
2287.6312	43699.861	142	2351.8866	42506.048	22	2433.892	41074.00	238	2475.7621	40379.404	412
2288.616	43681.06	141	2351.901	42505.79	137	2438.1826	41001.723	127	2476.0312	40375.015	458
2288.9683	43674.336	27	2355.9092	42433.477	22	2439.1706	40985.116	130	2476.4719	40367.831	458
2289.0309	43673.141	142	2356.191	42428.41	136	2439.3558	40982.005	413	2476.6566	40364.820	127
2289.0546	43672.690	140	2356.191	42428.41	415	2439.6307	40977.387	236	2476.8656	40361.415	131
2290.0662	43653.400	140	2361.9422	42325.100	244	2439.7449	40975.468	527	2478.179	40340.03	524
2290.477	43645.57	528	2362.122	42321.88	22	2440.1097	40969.343	527	2478.1793	40340.021	459
2290.5482	43644.215	142	2362.630	42312.78	239	2440.3319	40965.613	409	2478.2111	40339.503	524
2290.7746	43639.902	140	2364.437	42280.44	136	2441.590	40944.51	244	2479.1483	40324.255	458
2290.9132	43637.261	143	2365.5150	42261.178	245	2442.5685	40928.105	527	2479.4804	40318.854	131
2291.1199	43633.324	140	2367.391	42227.69	137	2442.644	40926.84	130	2479.4804	40318.854	459
2291.1199	43633.324	142	2369.4562	42190.889	21	2443.8718	40906.280	128	2479.6280	40316.454	124
2291.6249	43623.711	28	2371.4304	42155.768	21	2445.2130	40883.845	128	2479.6426	40316.216	458
2292.5248	43606.588	26	2373.6245	42116.804	21	2446.966	40854.56	130	2479.7764	40314.042	19
2293.8482	43581.432	27	2374.5186	42100.947	21	2447.7095	40842.149	19	2480.1881	40307.350	525
2294.107	43576.52	143	2375.860	42077.18	136	2448.3925	40830.756	235	2480.3894	40304.079	129
2294.4081	43570.798	25	2377.8843	42041.361	235	2448.5743	40827.724	238	2481.991	40278.07	459
2295.5405	43549.306	248	2377.9948	42039.408	245	2450.4435	40796.583	236	2483.2708	40257.316	19
2296.196	43536.88	250	2378.616	42028.43	246	2451.3874	40780.876	236	2483.5334	40253.060	127
2296.9269	43523.023	25	2381.8362	41971.612	21	2451.6756	40776.083	457	2484.1876	40242.460	19
2297.7871	43506.730	25	2385.5890	41905.591	241	2452.1678	40767.899	239	2484.5255	40236.988	233
2298.1690	43499.502	25	2387.2820	41875.876	237	2452.338	40765.07	241	2484.9972	40229.351	127
2298.6603	43490.205	27	2387.8474	41865.961	134	2452.5919	40760.849	527	2485.443	40222.14	410
2299.2201	43479.617	25	2388.0969	41861.587	243	2452.9747	40754.489	241	2485.9903	40213.281	124
2299.4491	43475.288	142	2389.406	41838.66	243	2453.3855	40747.665	130	2486.3727	40207.097	18
2299.744	43469.72	248	2389.9729	41828.731	21	2453.4760	40746.163	127	2486.6919	40201.936	127

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
2487.0659	40195.890	127	2505.4437	39901.068	456	2526.7712	39564.301	454	2546.8676	39252.135	901
2487.244	40193.02	340	2505.6324	39898.064	411	2527.2662	39556.552	523	2547.689	39239.48	333
2487.3699	40190.979	20	2506.329	39886.98	334	2527.4350	39553.911	17	2548.0803	39233.454	729
2487.4150	40190.250	456	2506.5723	39883.103	618	2527.699	39549.78	456	2548.1001	39233.149	330
2487.7678	40184.551	459	2507.5255	39867.944	458	2528.0129	39544.870	455	2548.393	39228.64	335
2487.926	40181.99	456	2507.9003	39861.986	124	2528.077	39543.86	232	2548.508	39226.87	335
2488.1425	40178.500	19	2508.7533	39848.434	128	2528.172	39542.38	730	2548.884	39221.09	616
2488.160	40178.21	122	2508.942	39845.44	331	2528.8779	39531.344	616	2549.226	39215.82	333
2488.482	40173.02	457	2508.9451	39845.387	124	2529.1350	39527.326	17	2549.3069	39214.579	333
2488.482	40173.02	459	2509.391	39838.31	338	2529.3077	39524.627	617	2549.5253	39211.219	121
2488.528	40172.27	524	2510.2970	39823.930	458	2529.8354	39516.383	17	2549.6134	39209.865	17
2488.9444	40165.555	619	2510.8349	39815.399	17	2530.257	39509.80	334	2549.949	39204.71	333
2489.0748	40163.452	458	2511.026	39812.37	456	2530.6916	39503.014	18	2550.510	39196.08	730
2489.0748	40163.452	459	2511.317	39807.75	413	2531.2474	39494.342	454	2550.8112	39191.454	120
2489.348	40159.05	524	2512.2754	39792.571	120	2531.632	39488.34	332	2551.0934	39187.119	407
2489.5208	40156.256	458	2512.3649	39791.154	18	2532.271	39478.38	454	2551.414	39182.20	332
2489.7524	40152.521	19	2512.8998	39782.684	454	2532.3742	39476.770	328	2552.6058	39163.902	18
2489.9133	40149.927	131	2512.973	39781.52	456	2532.8761	39468.947	121	2552.7683	39161.409	329
2490.418	40141.79	408	2513.3302	39775.872	454	2533.1415	39464.812	523	2552.8307	39160.453	120
2490.6443	40138.143	19	2513.332	39775.84	456	2533.273	39462.76	414	2553.4931	39150.294	123
2490.7084	40137.111	127	2513.4998	39773.188	454	2533.8042	39454.492	616	2553.549	39149.44	452
2490.8301	40135.150	129	2513.8481	39767.679	619	2534.634	39441.57	332	2553.671	39147.56	336
2491.1550	40129.916	19	2514.2800	39760.848	458	2535.128	39433.89	125	2553.8812	39144.345	334
2491.477	40124.73	456	2514.5190	39757.068	456	2535.4486	39428.905	729	2554.071	39141.44	450
2491.607	40122.63	459	2514.7092	39754.062	411	2535.6070	39426.441	17	2555.6466	39117.306	123
2491.643	40122.05	233	2515.8537	39735.978	232	2536.444	39413.43	328	2556.3038	39107.251	228
2491.670	40121.62	458	2516.2506	39729.711	122	2536.801	39407.89	123	2556.8629	39098.700	116
2492.2309	40112.593	456	2516.5709	39724.655	126	2536.9720	39405.230	225	2557.2707	39092.465	226
2492.455	40108.98	460	2516.956	39718.57	456	2537.130	39402.78	450	2557.421	39090.17	522
2492.6307	40106.160	128	2517.127	39715.88	121	2537.1747	39402.082	523	2557.829	39083.93	522
2492.8205	40103.106	124	2517.2205	39714.404	233	2537.4589	39397.669	228	2557.9786	39081.647	522
2494.0010	40084.125	127	2517.481	39710.29	334	2538.008	39389.15	227	2558.1145	39079.572	522
2494.0010	40084.125	128	2517.529	39709.54	458	2538.397	39383.11	327	2558.522	39073.34	615
2494.2023	40080.890	339	2517.6611	39707.454	124	2538.6993	39378.420	122	2558.579	39072.47	615
2494.2515	40080.100	122	2517.798	39705.29	339	2539.3569	39368.224	120	2559.092	39064.64	333
2494.5099	40075.948	126	2518.1017	39700.507	17	2539.5871	39364.656	121	2559.561	39057.48	453
2495.2764	40063.639	458	2518.6465	39691.920	228	2540.293	39353.71	412	2559.884	39052.56	333
2495.873	40054.07	122	2518.667	39691.60	125	2540.663	39347.99	336	2560.028	39050.36	333
2496.5338	40043.461	124	2518.8236	39689.130	617	2540.6635	39347.979	18	2560.5573	39042.292	121
2497.8530	40022.315	331	2519.6294	39676.438	124	2540.732	39346.92	730	2560.584	39041.88	690
2498.122	40018.00	340	2519.848	39673.00	454	2540.9155	39344.076	120	2560.767	39039.10	333
2498.2056	40016.667	411	2520.872	39656.88	456	2540.9721	39343.200	17	2560.870	39037.53	405
2498.3418	40014.485	334	2520.9711	39655.323	408	2541.2536	39338.843	454	2561.2719	39031.399	123
2498.697	40008.80	129	2521.0598	39653.927	229	2541.2932	39338.229	329	2561.8551	39022.514	120
2498.8184	40006.854	20	2521.159	39652.36	233	2541.929	39328.39	227	2562.2249	39016.883	120
2498.8738	40005.966	18	2521.621	39645.10	331	2541.929	39328.39	232	2562.228	39016.83	120
2499.6257	39993.934	456	2521.769	39642.78	225	2542.1013	39325.726	523	2563.3989	38999.015	119
2499.693	39992.85	232	2521.9190	39640.419	123	2542.314	39322.43	413	2563.898	38991.42	329
2500.4859	39980.176	459	2522.194	39636.09	18	2542.391	39321.24	334	2564.5594	38981.368	123
2500.861	39974.18	458	2522.4799	39631.604	122	2542.7360	39315.909	522	2565.276	38970.48	449
2501.1319	39969.850	17	2522.8494	39625.800	17	2543.0510	39311.040	451	2565.4694	38967.542	408
2501.4236	39965.189	124	2523.1376	39621.274	409	2543.378	39305.99	615	2565.531	38966.60	327
2501.6940	39960.870	121	2523.271	39619.18	331	2543.3780	39305.986	409	2565.595	38965.63	404
2501.734	39960.23	455	2523.271	39619.18	336	2543.678	39301.35	519	2568.154	38926.81	447
2502.225	39952.39	408	2523.3236	39618.354	332	2543.8961	39297.981	616	2568.407	38922.98	522
2502.4907	39948.149	414	2523.6612	39613.055	617	2543.9225	39297.573	523	2568.8647	38916.041	119
2503.4917	39932.178	619	2523.9970	39607.785	456	2544.465	39289.19	123	2569.029	38913.55	615
2503.555	39931.16	458	2524.2925	39603.149	17	2544.6566	39286.237	123	2569.089	38912.64	522
2504.102	39922.45	617	2524.394	39601.55	456	2545.9784	39265.842	17	2569.345	38908.77	615
2504.542	39915.44	339	2524.563	39598.91	335	2546.1748	39262.814	329	2569.5970	38904.952	115
2504.628	39914.07	337	2525.0238	39591.680	617	2546.1748	39262.814	406	2569.7436	38902.732	120
2505.0079	39908.010	618	2525.111	39590.31	328	2546.179	39262.75	329	2572.549	38860.31	521

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
2572.7554	38857.194	228	2609.2209	38314.173	689	2660.3972	37577.193	114	2689.8800	37165.346	441
2575.7453	38812.092	520	2610.7509	38291.722	16	2661.1933	37565.952	113	2690.0682	37162.746	14
2576.6902	38797.860	115	2612.7722	38262.100	16	2661.3047	37564.380	439	2690.420	37157.88	437
2576.984	38793.44	231	2613.2543	38255.041	689	2661.4154	37562.817	441	2691.4925	37143.081	435
2577.187	38790.38	405	2614.4946	38236.894	115	2661.521	37561.32	611	2692.2482	37132.656	217
2578.0034	38778.098	408	2614.780	38232.72	227	2662.0566	37553.770	113	2692.601	37127.79	516
2579.260	38759.21	120	2614.944	38230.32	520	2662.3032	37550.292	436	2692.6503	37127.111	113
2579.2702	38759.053	116	2615.8502	38217.081	446	2663.164	37538.16	439	2692.810	37124.91	610
2579.272	38759.03	449	2615.879	38216.66	689	2663.440	37534.27	438	2694.5359	37101.132	437
2579.8440	38750.433	689	2615.984	38215.13	609	2664.0430	37525.771	444	2695.0355	37094.254	110
2580.0648	38747.117	119	2618.0180	38185.437	115	2664.1673	37524.019	439	2695.211	37091.84	437
2580.2941	38743.674	227	2618.7107	38175.338	16	2665.806	37500.95	221	2695.303	37090.57	684
2580.4528	38741.292	119	2618.8491	38173.320	688	2666.364	37493.11	435	2695.5311	37087.434	438
2580.5543	38739.767	230	2619.848	38158.76	117	2666.3986	37492.620	113	2695.5884	37086.646	687
2580.9509	38733.815	120	2623.3660	38107.598	16	2666.4541	37491.840	436	2695.6514	37085.779	437
2582.2981	38713.609	520	2623.5339	38105.159	115	2666.8125	37486.802	111	2695.9895	37081.128	437
2583.668	38693.09	521	2623.9929	38098.494	445	2666.9650	37484.659	220	2696.1233	37079.288	727
2584.5360	38680.089	115	2624.129	38096.52	688	2667.218	37481.10	608	2696.2811	37077.119	436
2585.470	38666.12	831	2624.7476	38087.539	609	2667.521	37476.84	435	2697.0210	37066.948	220
2586.477	38651.06	448	2627.1282	38053.028	224	2667.9127	37471.344	16	2697.661	37058.16	441
2586.556	38649.88	690	2627.2242	38051.638	114	2668.7087	37460.168	611	2698.1650	37051.232	442
2587.374	38637.66	224	2628.998	38025.97	223	2668.9096	37457.348	442	2698.239	37050.22	325
2587.877	38630.16	613	2632.2376	37979.168	115	2669.009	37455.95	608	2698.784	37042.73	609
2587.9954	38628.389	520	2632.5939	37974.028	16	2669.4933	37449.159	517	2699.0019	37039.744	441
2588.304	38623.79	613	2632.9873	37968.355	791	2670.7860	37431.034	439	2699.1067	37038.306	111
2588.480	38621.15	613	2633.6186	37959.254	611	2672.217	37410.99	441	2700.608	37017.72	728
2588.891	38615.02	118	2633.813	37956.46	436	2672.446	37407.78	439	2701.8088	37001.266	607
2589.9071	38599.877	445	2634.923	37940.47	446	2672.781	37403.09	443	2701.9104	36999.874	605
2590.879	38585.40	117	2635.7213	37928.974	518	2673.089	37398.79	439	2702.264	36995.04	515
2591.2568	38579.774	411	2635.8088	37927.714	115	2673.2132	37397.049	113	2702.300	36994.54	608
2591.757	38572.33	119	2636.136	37923.00	609	2673.548	37392.37	608	2702.4502	36992.484	514
2592.2863	38564.452	689	2636.136	37923.00	688	2674.182	37383.50	443	2702.5601	36990.980	435
2592.286	38564.45	449	2636.4786	37918.079	114	2674.617	37377.42	611	2702.638	36989.92	607
2593.260	38549.97	690	2639.676	37872.15	222	2674.714	37376.07	402	2702.768	36988.13	435
2593.5010	38546.392	520	2641.0293	37852.747	518	2675.2755	37368.222	441	2702.9153	36986.120	727
2593.5161	38546.167	447	2641.490	37846.14	688	2676.162	37355.85	612	2703.013	36984.78	437
2594.0363	38538.438	689	2641.6438	37843.943	113	2677.719	37334.12	790	2703.304	36980.80	607
2594.1510	38536.734	115	2642.277	37834.88	114	2678.214	37327.23	436	2703.805	36973.95	900
2595.428	38517.78	119	2643.9986	37810.240	115	2679.0242	37315.937	517	2704.099	36969.93	441
2596.071	38508.24	690	2644.376	37804.85	439	2679.0618	37315.413	111	2704.337	36966.68	516
2596.6161	38500.152	114	2644.792	37798.90	439	2679.211	37313.34	437	2704.4645	36964.934	727
2597.8291	38482.175	408	2645.4216	37789.903	16	2679.716	37306.31	442	2704.5775	36963.389	440
2597.883	38481.37	830	2646.3928	37776.035	439	2680.1162	37300.734	439	2704.6151	36962.876	516
2597.9457	38480.448	403	2646.512	37774.34	441	2680.271	37298.58	435	2704.793	36960.44	610
2598.8525	38467.023	689	2647.395	37761.73	518	2680.4531	37296.046	113	2705.279	36953.80	433
2599.217	38461.63	614	2647.5576	37759.417	16	2680.9128	37289.651	220	2706.0126	36943.788	514
2599.5669	38456.452	115	2648.165	37750.75	219	2681.4609	37282.029	438	2706.582	36936.02	728
2600.098	38448.60	609	2648.5800	37744.842	436	2681.5858	37280.293	436	2706.5819	36936.017	110
2600.2070	38446.986	409	2648.752	37742.39	222	2681.887	37276.11	609	2706.999	36930.32	437
2600.2703	38446.050	118	2649.9121	37725.868	611	2682.2110	37271.603	438	2707.035	36929.84	1111
2603.043	38405.10	403	2651.7062	37700.345	114	2683.9366	37247.642	443	2707.4484	36924.196	606
2603.5546	38397.554	520	2652.188	37693.50	611	2684.0674	37245.826	442	2707.451	36924.16	727
2603.607	38396.78	613	2653.051	37681.23	444	2684.585	37238.65	513	2708.039	36916.15	221
2603.6084	38396.761	227	2653.138	37680.00	517	2684.8560	37234.887	113	2708.039	36916.15	435
2604.220	38387.75	613	2655.139	37651.61	220	2685.135	37231.02	687	2708.5708	36908.896	605
2604.7547	38379.864	688	2656.1454	37637.340	517	2687.4142	37199.444	441	2708.649	36907.83	728
2605.6573	38366.571	114	2656.300	37635.15	612	2687.723	37195.17	441	2708.8929	36904.508	727
2606.3037	38357.056	411	2656.7919	37628.183	219	2687.8005	37194.098	436	2709.5398	36895.698	512
2606.8263	38349.366	115	2658.4764	37604.341	439	2689.2122	37174.574	111	2709.9889	36889.583	437
2607.212	38343.69	445	2658.920	37598.07	433	2689.4138	37171.788	436	2710.4148	36883.787	728
2607.831	38334.60	447	2658.9467	37597.691	443	2689.8289	37166.052	219	2710.443	36883.41	727
2608.297	38327.75	117	2659.251	37593.39	439	2689.8800	37165.346	433	2710.5437	36882.034	220

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
2710.545	36882.02	513	2729.3289	36628.198	726	2745.856	36407.75	316	2764.1194	36167.204	828
2710.545	36882.02	726	2730.022	36618.90	685	2745.9608	36406.359	215	2764.3231	36164.538	324
2710.9741	36876.178	319	2730.9819	36606.029	110	2746.671	36396.95	786	2765.236	36152.60	395
2711.273	36872.11	217	2731.2814	36602.016	605	2746.9820	36392.825	108	2765.689	36146.68	211
2711.4589	36869.585	437	2731.3401	36601.229	685	2747.002	36392.56	111	2766.026	36142.27	598
2711.6552	36866.917	111	2732.018	36592.15	607	2747.534	36385.52	829	2766.439	36136.88	723
2713.450	36842.53	727	2732.778	36581.97	900	2747.5545	36385.242	326	2766.550	36135.43	899
2714.0601	36834.251	605	2732.9399	36579.805	607	2748.197	36376.74	600	2766.5516	36135.409	509
2714.8693	36823.273	111	2733.3655	36574.109	218	2749.6827	36357.083	112	2766.5516	36135.409	595
2714.869	36823.27	437	2733.5805	36571.233	109	2750.0509	36352.215	827	2766.9091	36130.740	111
2715.3225	36817.127	14	2733.896	36567.01	434	2750.1406	36351.030	15	2767.449	36123.69	785
2715.5208	36814.438	441	2734.0055	36565.548	111	2750.419	36347.35	899	2767.944	36117.23	508
2715.626	36813.01	724	2734.2673	36562.048	318	2750.517	36346.05	724	2768.0384	36116.000	603
2716.004	36807.89	440	2734.2673	36562.048	326	2750.5234	36345.970	724	2768.1039	36115.146	317
2716.043	36807.36	727	2734.4472	36559.642	724	2750.6968	36343.680	326	2768.4315	36110.873	317
2716.2574	36804.455	515	2734.6152	36557.396	111	2750.8736	36341.344	324	2768.4315	36110.873	323
2716.4187	36802.271	514	2734.8816	36553.836	789	2751.209	36336.92	723	2768.4315	36110.873	603
2717.132	36792.61	323	2734.886	36553.77	725	2751.3177	36335.478	685	2768.5573	36109.231	828
2717.309	36790.21	727	2735.317	36548.02	217	2751.8661	36328.237	394	2768.7864	36106.244	723
2717.3663	36789.437	110	2735.4753	36545.902	109	2752.1502	36324.488	724	2769.1528	36101.467	595
2717.7865	36783.749	112	2735.6122	36544.074	326	2753.0978	36311.986	898	2769.2982	36099.572	509
2718.4363	36774.958	110	2736.199	36536.24	724	2753.240	36310.11	601	2769.6693	36094.735	106
2719.0274	36766.963	15	2736.397	36533.59	599	2753.285	36309.52	511	2770.408	36085.11	685
2719.138	36765.47	900	2736.491	36532.34	723	2753.6869	36304.218	109	2770.539	36083.40	107
2719.4203	36761.651	514	2736.5274	36531.853	107	2753.7920	36302.832	685	2770.6951	36081.372	322
2719.6803	36758.137	607	2736.612	36530.72	316	2753.867	36301.85	316	2770.847	36079.40	13
2720.1967	36751.159	324	2736.7625	36528.715	723	2753.9663	36300.535	723	2771.734	36067.85	788
2720.5191	36746.805	14	2736.9661	36525.997	112	2754.0321	36299.668	111	2771.8810	36065.936	107
2720.9023	36741.630	15	2737.1398	36523.680	724	2754.233	36297.02	317	2772.0740	36063.425	108
2721.1069	36738.867	318	2737.3092	36521.419	15	2754.4273	36294.460	110	2772.1101	36062.955	15
2721.815	36729.31	726	2737.6409	36516.995	510	2754.552	36292.82	1058	2772.3197	36060.229	319
2721.815	36729.31	727	2737.8329	36514.434	107	2754.941	36287.69	723	2772.5086	36057.772	319
2722.0390	36726.287	216	2738.2133	36509.361	110	2754.9434	36287.660	323	2772.822	36053.70	898
2722.237	36723.61	727	2738.278	36508.50	221	2755.1819	36284.520	508	2773.2326	36048.359	324
2722.3243	36722.439	434	2738.278	36508.50	603	2755.455	36280.93	723	2773.9051	36039.620	508
2722.352	36722.07	726	2738.3162	36507.990	603	2755.660	36278.23	723	2774.164	36036.26	321
2722.834	36715.56	434	2738.455	36506.14	603	2755.890	36275.20	603	2774.1933	36035.877	604
2723.025	36712.99	514	2738.973	36499.23	512	2755.950	36274.41	217	2774.7299	36028.908	109
2723.210	36710.50	724	2739.1048	36497.479	317	2756.087	36272.61	603	2774.9379	36026.208	827
2723.266	36709.74	726	2739.220	36495.94	723	2756.2667	36270.239	14	2775.055	36024.69	723
2723.5775	36705.543	15	2740.261	36482.08	686	2756.3282	36269.431	15	2775.230	36022.42	315
2723.7865	36702.726	599	2740.6888	36476.386	723	2757.3155	36256.444	109	2775.458	36019.46	685
2724.127	36698.14	727	2740.8922	36473.680	723	2757.4226	36255.036	213	2775.791	36015.14	785
2724.3412	36695.253	724	2741.0463	36471.629	604	2757.712	36251.23	785	2775.8439	36014.450	828
2724.417	36694.23	726	2741.1012	36470.899	953	2758.013	36247.28	597	2776.3972	36007.273	828
2724.6694	36690.834	606	2741.216	36469.37	599	2758.9833	36234.529	319	2776.451	36006.58	320
2724.9532	36687.012	111	2741.358	36467.48	313	2759.180	36231.95	1007	2776.7671	36002.476	508
2724.9532	36687.012	724	2741.5768	36464.572	217	2759.180	36231.95	686	2777.266	35996.01	320
2725.0162	36686.165	14	2741.6844	36463.141	602	2759.724	36224.81	899	2777.812	35988.93	1005
2725.2847	36682.550	899	2742.0158	36458.734	14	2759.8138	36223.625	111	2777.8885	35987.943	595
2725.3293	36681.950	217	2742.2542	36455.565	109	2759.922	36222.20	400	2778.0676	35985.624	324
2725.6019	36678.281	110	2742.3318	36454.534	326	2760.6129	36213.140	321	2778.2203	35983.646	106
2725.625	36677.97	725	2742.4053	36453.556	15	2761.4978	36201.537	684	2778.563	35979.21	389
2725.8060	36675.535	605	2742.756	36448.89	789	2761.7798	36197.840	109	2778.753	35976.75	898
2726.0553	36672.181	110	2743.060	36444.85	899	2762.0266	36194.606	109	2778.8423	35975.592	107
2726.2328	36669.794	605	2743.5654	36438.143	110	2762.6813	36186.029	324	2778.928	35974.48	1006
2726.368	36667.98	725	2744.0674	36431.477	15	2762.6813	36186.029	723	2779.694	35964.57	398
2726.7869	36662.343	789	2744.352	36427.70	724	2762.7716	36184.846	326	2780.528	35953.78	211
2728.0210	36645.759	110	2744.5275	36425.371	109	2762.920	36182.90	1006	2780.571	35953.23	827
2728.450	36640.00	513	2744.786	36421.94	724	2763.092	36180.65	108	2780.6973	35951.594	598
2728.8202	36635.026	514	2745.2805	36415.380	323	2763.1095	36180.421	110	2780.8818	35949.208	108
2728.9698	36633.018	14	2745.735	36409.35	724	2763.503	36175.27	828	2781.8356	35936.883	109

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
2782.0513	35934.097	317	2807.2439	35611.636	12	2830.565	35318.24	1220	2862.273	34927.01	896
2782.769	35924.83	722	2808.3270	35597.902	108	2830.759	35315.82	683	2862.4947	34924.307	105
2783.081	35920.80	722	2808.356	35597.54	399	2830.924	35313.77	828	2862.744	34921.27	894
2783.199	35919.28	788	2808.947	35590.04	829	2831.8378	35302.372	432	2863.057	34917.45	432
2783.286	35918.16	684	2810.311	35572.77	720	2831.978	35300.63	682	2863.100	34916.92	894
2783.4438	35916.121	829	2810.837	35566.11	683	2832.4355	35294.923	106	2863.4300	34912.900	204
2783.5498	35914.753	213	2811.167	35561.94	211	2833.013	35287.73	720	2863.8631	34907.620	12
2783.852	35910.85	394	2811.597	35556.50	787	2833.4022	35282.882	393	2866.153	34879.73	591
2784.0086	35908.835	598	2811.775	35554.25	897	2834.059	35274.71	721	2866.153	34879.73	821
2784.342	35904.54	829	2811.859	35553.19	897	2834.1734	35273.281	212	2866.380	34876.97	675
2784.3420	35904.535	509	2811.906	35552.59	897	2834.4172	35270.247	207	2866.6249	34873.991	105
2785.132	35894.35	594	2812.0403	35550.898	682	2834.4172	35270.247	211	2867.3094	34865.666	212
2785.349	35891.55	1005	2812.213	35548.72	596	2834.7526	35266.075	592	2867.5617	34862.598	207
2786.172	35880.96	322	2812.307	35547.52	214	2835.240	35260.01	828	2867.8780	34858.753	208
2787.125	35868.68	509	2812.4999	35545.088	828	2835.4564	35257.321	12	2868.2147	34854.662	431
2787.9314	35858.312	212	2813.2864	35535.151	106	2835.6581	35254.813	398	2868.4541	34851.753	390
2787.9580	35857.969	212	2815.0174	35513.301	399	2835.9507	35251.176	212	2869.2283	34842.349	431
2788.1048	35856.081	106	2815.5066	35507.131	213	2836.3147	35246.653	720	2869.3078	34841.384	12
2788.628	35849.35	597	2815.6154	35505.759	823	2838.1195	35224.240	106	2869.8253	34835.102	431
2788.981	35844.82	826	2815.841	35502.92	314	2839.233	35210.43	722	2871.724	34812.07	506
2789.4762	35838.455	317	2816.690	35492.21	784	2839.9761	35201.214	720	2872.3339	34804.679	105
2789.6767	35835.879	212	2817.5038	35481.963	106	2840.4223	35195.684	12	2872.4986	34802.683	782
2789.8016	35834.274	682	2817.766	35478.66	896	2840.460	35195.22	784	2872.802	34799.01	822
2789.839	35833.79	898	2817.945	35476.41	209	2840.9374	35189.303	314	2873.5200	34790.314	398
2790.758	35822.00	315	2818.023	35475.43	722	2841.252	35185.41	787	2873.6543	34788.687	589
2790.808	35821.35	826	2818.596	35468.21	784	2842.793	35166.33	677	2874.1722	34782.419	12
2790.946	35819.58	598	2819.2753	35459.669	398	2842.911	35164.87	952	2874.8779	34773.881	431
2791.504	35812.42	827	2819.3026	35459.326	682	2843.055	35163.09	895	2875.249	34769.39	398
2791.591	35811.31	825	2820.192	35448.14	787	2843.2141	35161.126	786	2875.301	34768.76	818
2791.7858	35808.807	508	2820.530	35443.90	207	2843.625	35156.05	721	2875.3021	34768.751	203
2791.7858	35808.807	826	2820.815	35440.32	681	2843.6308	35155.974	105	2875.478	34766.62	893
2791.899	35807.35	315	2820.924	35438.95	720	2843.7959	35153.934	394	2876.400	34755.48	312
2792.3989	35800.946	213	2821.625	35430.14	397	2843.9212	35152.385	12	2876.7127	34751.704	589
2792.807	35795.71	320	2821.625	35430.14	679	2843.9764	35151.702	106	2877.3007	34744.602	203
2794.143	35778.60	318	2822.262	35422.14	823	2844.141	35149.67	589	2878.629	34728.57	952
2794.7021	35771.442	109	2822.808	35415.30	823	2844.279	35147.96	679	2878.685	34727.90	431
2794.852	35769.52	320	2823.2757	35409.427	106	2844.414	35146.30	896	2878.7606	34726.983	783
2795.0047	35767.570	13	2823.511	35406.48	395	2845.5476	35132.294	207	2878.9498	34724.701	207
2795.149	35765.72	722	2824.577	35393.12	432	2845.5947	35131.712	105	2879.102	34722.86	432
2795.268	35764.20	826	2824.706	35391.50	682	2845.7132	35130.249	205	2879.458	34718.57	401
2795.5400	35760.721	106	2824.953	35388.41	678	2845.8175	35128.962	432	2879.735	34715.23	591
2795.865	35756.56	392	2825.3228	35383.773	784	2846.4599	35121.035	825	2880.375	34707.52	674
2796.2163	35752.073	826	2825.5557	35380.856	108	2846.8298	35116.471	204	2880.5793	34705.058	105
2796.8676	35743.748	214	2825.6875	35379.206	13	2846.990	35114.50	432	2881.073	34699.11	431
2797.041	35741.53	596	2825.849	35377.19	432	2847.535	35107.77	432	2881.741	34691.07	1004
2797.375	35737.27	509	2825.997	35375.33	13	2848.627	35094.32	676	2881.805	34690.30	1004
2797.6308	35733.997	401	2826.4966	35369.079	211	2848.7147	35093.237	105	2881.805	34690.30	1004
2797.7753	35732.151	108	2826.740	35366.04	314	2851.5100	35058.837	593	2882.026	34687.64	1004
2798.967	35716.94	207	2827.5899	35355.404	396	2851.7969	35055.310	106	2882.633	34680.34	505
2799.1469	35714.643	107	2827.670	35354.40	678	2852.0148	35052.632	786	2883.7472	34666.935	674
2799.8403	35705.799	828	2827.8920	35351.627	13	2852.169	35050.74	395	2885.3466	34647.720	431
2800.4666	35697.814	828	2827.894	35351.60	721	2852.973	35040.86	206	2885.3466	34647.720	824
2801.895	35679.61	1005	2828.266	35346.95	680	2853.340	35036.35	823	2886.3160	34636.084	204
2803.1662	35663.437	13	2828.451	35344.64	676	2853.6840	35032.130	205	2887.143	34626.16	948
2803.6134	35657.749	509	2828.581	35343.02	787	2853.7717	35031.053	589	2887.360	34623.56	503
2804.5203	35646.218	106	2828.6784	35341.800	825	2854.183	35026.00	1220	2887.539	34621.42	719
2804.8617	35641.880	682	2828.8082	35340.178	108	2857.694	34982.97	1221	2887.8051	34618.224	674
2805.025	35639.80	828	2829.089	35336.67	828	2857.9930	34979.314	391	2887.958	34616.39	506
2805.759	35630.48	315	2829.3652	35333.221	826	2858.0894	34978.135	395	2888.497	34609.93	820
2805.8103	35629.831	211	2829.3652	35333.221	897	2858.677	34970.94	822	2889.864	34593.56	675
2806.073	35626.50	401	2830.054	35324.62	722	2858.8964	34968.262	12	2889.9000	34593.131	506
2806.9842	35614.931	108	2830.529	35318.69	396	2860.200	34952.32	432	2889.9879	34592.078	431

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
2890.320	34588.10	951	2914.3034	34303.473	206	2931.8035	34098.722	673	2953.4857	33848.407	673
2890.411	34587.01	210	2914.513	34301.00	819	2931.8035	34098.722	712	2953.5391	33847.795	712
2890.824	34582.08	894	2914.649	34299.40	818	2933.804	34075.47	713	2953.6910	33846.055	710
2890.859	34581.65	1174	2915.271	34292.09	717	2934.371	34068.89	305	2953.9400	33843.202	10
2890.859	34581.65	820	2915.980	34283.75	707	2935.232	34058.89	709	2954.107	33841.29	715
2891.405	34575.13	206	2916.214	34281.00	713	2935.679	34053.71	1054	2954.3443	33838.570	1057
2891.692	34571.69	949	2917.872	34261.52	891	2936.0324	34049.611	504	2954.3443	33838.570	1109
2891.7084	34571.498	590	2918.0248	34259.727	1110	2936.0674	34049.205	717	2954.6523	33835.043	388
2891.844	34569.88	310	2918.1590	34258.151	713	2936.1174	34048.625	206	2954.929	33831.88	581
2891.9062	34569.133	495	2918.3528	34255.876	397	2936.4378	34044.910	713	2954.983	33831.26	305
2892.229	34565.27	395	2918.672	34252.13	949	2936.749	34041.30	709	2954.983	33831.26	430
2892.4776	34562.305	431	2918.8169	34250.430	713	2936.9034	34039.513	10	2956.7014	33811.595	716
2893.431	34550.92	891	2919.2133	34245.779	718	2937.465	34033.00	781	2956.8562	33809.825	670
2893.7627	34546.957	105	2919.608	34241.15	1172	2937.8067	34029.047	713	2957.3645	33804.014	10
2893.833	34546.12	716	2919.8405	34238.424	431	2938.040	34026.34	716	2957.4846	33802.642	387
2893.8806	34545.549	205	2920.283	34233.23	401	2938.483	34021.22	710	2957.854	33798.42	890
2894.5042	34538.107	390	2920.623	34229.25	495	2938.720	34018.47	305	2958.020	33796.52	950
2894.864	34533.82	675	2920.6906	34228.458	204	2938.851	34016.96	818	2958.301	33793.31	817
2894.957	34532.70	1173	2921.031	34224.47	713	2939.0534	34014.613	1110	2958.4528	33791.580	669
2895.0348	34531.777	204	2921.602	34217.78	309	2939.080	34014.30	715	2958.679	33789.00	1057
2896.444	34514.98	1001	2921.716	34216.45	507	2940.5877	33996.867	710	2959.3247	33781.624	711
2896.771	34511.08	1003	2921.771	34215.80	891	2940.6223	33996.466	502	2959.6802	33777.567	710
2897.457	34502.91	818	2922.2128	34210.630	717	2941.2348	33989.387	502	2959.9922	33774.007	670
2897.644	34500.69	501	2922.3791	34208.683	203	2941.270	33988.98	709	2960.2963	33770.537	397
2898.3506	34492.274	431	2922.6234	34205.823	713	2941.3427	33988.140	10	2960.499	33768.22	585
2898.542	34490.00	393	2923.2856	34198.075	1110	2941.524	33986.05	817	2960.5508	33767.634	498
2898.863	34486.18	312	2923.389	34196.86	391	2942.625	33973.33	710	2960.6594	33766.396	889
2899.2551	34481.513	891	2923.431	34196.38	497	2942.625	33973.33	818	2960.766	33765.18	715
2899.4146	34479.617	388	2923.4307	34196.378	710	2943.004	33968.96	710	2960.803	33764.76	1054
2899.681	34476.45	713	2923.8526	34191.444	672	2943.117	33967.65	717	2961.222	33759.98	1002
2900.938	34461.51	710	2923.9916	34189.819	669	2943.303	33965.50	497	2961.350	33758.52	202
2901.3807	34456.253	206	2924.355	34185.57	818	2943.5714	33962.408	716	2961.449	33757.39	1056
2901.585	34453.83	311	2924.489	34184.00	203	2944.525	33951.41	780	2961.711	33754.41	308
2901.805	34451.21	208	2924.811	34180.24	712	2945.0516	33945.339	1056	2962.1095	33749.866	201
2901.9104	34449.964	431	2925.096	34176.91	818	2945.0516	33945.339	503	2962.407	33746.48	1055
2901.976	34449.19	506	2925.3577	34173.853	674	2945.105	33944.72	709	2962.461	33745.86	1056
2902.615	34441.60	718	2925.640	34170.56	396	2945.223	33943.36	710	2962.574	33744.58	1108
2904.0846	34424.173	674	2925.711	34169.73	588	2945.471	33940.50	950	2963.304	33736.26	1056
2904.1602	34423.277	399	2925.7845	34168.868	713	2945.601	33939.01	780	2963.544	33733.53	712
2904.531	34418.88	310	2925.8989	34167.532	206	2945.694	33937.94	816	2963.642	33732.41	383
2905.181	34411.18	821	2926.019	34166.13	202	2945.6971	33937.901	399	2963.692	33731.85	711
2905.364	34409.02	952	2926.246	34163.48	717	2945.860	33936.02	1109	2964.1330	33726.828	815
2905.505	34407.35	816	2926.5522	34159.905	203	2946.099	33933.27	202	2964.215	33725.89	587
2905.571	34406.56	1110	2926.6153	34159.169	713	2946.975	33923.19	500	2965.2544	33714.073	10
2906.4145	34396.578	495	2926.694	34158.25	717	2947.1207	33921.508	1110	2965.2544	33714.073	669
2906.583	34394.58	309	2926.769	34157.38	892	2947.253	33919.98	203	2965.584	33710.33	430
2906.741	34392.72	503	2927.549	34148.27	1109	2947.361	33918.74	710	2965.8039	33707.827	501
2907.5174	34383.531	674	2927.8815	34144.397	396	2947.3621	33918.730	386	2965.836	33707.46	715
2907.792	34380.28	894	2928.1024	34141.821	309	2947.8760	33912.817	10	2966.076	33704.73	709
2908.8560	34367.710	431	2928.218	34140.47	820	2948.4336	33906.403	669	2966.1974	33703.355	1055
2909.113	34364.67	713	2928.7497	34134.276	386	2948.724	33903.07	1109	2966.1974	33703.355	499
2909.3147	34362.291	506	2928.805	34133.63	890	2948.7270	33903.030	307	2966.198	33703.35	1055
2910.663	34346.37	497	2929.0071	34131.276	10	2948.9497	33900.470	307	2966.2622	33702.619	307
2910.928	34343.25	675	2929.1084	34130.096	713	2948.985	33900.06	305	2966.598	33698.80	1057
2911.230	34339.68	713	2929.117	34129.99	1110	2949.681	33892.07	305	2966.685	33697.82	947
2911.916	34331.60	816	2929.2381	34128.584	715	2949.702	33891.82	710	2966.898	33695.39	10
2912.1573	34328.751	10	2929.304	34127.82	713	2950.2413	33885.629	713	2966.8986	33695.390	1056
2912.2567	34327.580	203	2929.6179	34124.160	204	2950.917	33877.87	711	2967.173	33692.27	500
2912.273	34327.39	718	2930.393	34115.13	1109	2951.3585	33872.803	498	2968.332	33679.12	497
2913.059	34318.13	707	2931.413	34103.26	505	2951.5490	33870.616	1171	2968.4779	33677.465	390
2913.690	34310.69	710	2931.481	34102.47	817	2952.196	33863.19	709	2968.566	33676.46	709
2914.1966	34304.730	388	2931.658	34100.42	305	2952.564	33858.97	306	2969.359	33667.47	581

TABLE 4—*Continued*

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
2969.3598	33667.463	11	2987.056	33468.02	1108	3008.495	33229.53	946	3037.162	32915.90	779
2969.4746	33666.161	103	2987.2905	33465.388	712	3008.678	33227.51	949	3037.3887	32913.438	9
2970.0994	33659.079	10	2987.2906	33465.387	103	3008.789	33226.28	708	3037.542	32911.78	1050
2970.1060	33659.004	396	2987.429	33463.84	498	3009.0932	33222.922	493	3037.685	32910.23	582
2970.1181	33658.867	11	2988.187	33455.35	711	3009.5693	33217.666	103	3037.7796	32909.203	104
2970.360	33656.13	582	2988.4713	33452.166	200	3009.681	33216.43	1055	3037.782	32909.18	1218
2970.360	33656.13	669	2988.783	33448.68	814	3010.168	33211.06	579	3038.313	32903.43	807
2970.917	33649.82	810	2988.8826	33447.563	382	3011.271	33198.89	1053	3038.974	32896.27	814
2970.971	33649.21	1057	2988.9432	33446.885	670	3011.474	33196.66	585	3039.3171	32892.556	494
2971.092	33647.83	581	2989.162	33444.44	810	3011.4810	33196.580	670	3039.599	32889.51	808
2971.760	33640.27	1055	2989.487	33440.80	1055	3011.8849	33192.129	390	3040.4273	32880.546	103
2971.936	33638.28	308	2990.3915	33430.686	669	3012.4414	33185.997	495	3040.759	32876.96	1170
2972.2784	33634.405	307	2990.600	33428.36	947	3012.933	33180.58	1053	3040.956	32874.83	578
2972.416	33632.85	1053	2991.6314	33416.832	495	3012.933	33180.58	810	3040.956	32874.83	806
2972.774	33628.80	1056	2991.763	33415.36	810	3013.489	33174.46	1053	3041.029	32874.04	586
2972.856	33627.87	1057	2991.828	33414.64	581	3014.099	33167.75	887	3041.6372	32867.467	200
2973.1324	33624.744	10	2991.904	33413.79	812	3014.1734	33166.929	104	3041.7388	32862.370	103
2973.2354	33623.579	10	2993.281	33398.42	1053	3014.315	33165.37	496	3041.891	32864.73	1166
2973.910	33615.95	715	2993.792	33392.72	1053	3015.9191	33147.732	493	3042.0196	32863.336	103
2974.483	33609.48	714	2994.074	33389.57	1055	3016.1847	33144.813	103	3042.6649	32856.367	103
2974.7778	33606.146	1056	2994.427	33385.64	9	3017.251	33133.10	809	3042.841	32854.47	1000
2974.7778	33606.146	711	2994.5022	33384.797	11	3017.4176	33131.271	807	3042.841	32854.47	810
2975.287	33600.39	498	2995.2499	33376.463	576	3017.6272	33128.969	9	3043.796	32844.16	1217
2975.648	33596.32	587	2995.475	33373.95	1053	3017.861	33126.40	807	3044.103	32840.84	1107
2976.1266	33590.916	386	2995.594	33372.63	583	3018.1351	33123.395	494	3044.217	32839.62	1048
2976.506	33586.64	200	2995.830	33370.00	889	3018.248	33122.16	584	3044.256	32839.20	806
2976.5500	33586.138	711	2995.956	33368.60	708	3018.701	33117.19	707	3045.0784	32830.326	102
2976.585	33585.74	1055	2996.3857	33363.812	390	3018.9830	33114.092	103	3045.5887	32824.825	493
2976.907	33582.11	710	2996.570	33361.76	708	3019.221	33111.48	1053	3045.746	32823.13	381
2978.050	33569.22	496	2997.526	33351.12	712	3019.2875	33110.752	494	3046.505	32814.95	1051
2978.197	33567.57	379	2998.326	33342.22	587	3019.926	33103.75	944	3046.644	32813.46	810
2978.282	33566.61	383	2998.436	33341.00	711	3020.4907	33097.564	9	3046.803	32811.74	668
2978.502	33564.13	582	2998.478	33340.53	708	3020.639	33095.94	9	3046.9241	32810.440	493
2978.555	33563.53	1053	2998.930	33335.51	1050	3021.073	33091.19	9	3047.0493	32809.091	885
2978.674	33562.19	709	2998.930	33335.51	1053	3023.426	33065.43	943	3047.205	32807.42	779
2979.408	33553.92	709	2999.1882	33332.637	496	3024.0327	33058.799	11	3047.454	32804.73	804
2980.211	33544.88	1108	2999.5118	33329.042	103	3024.793	33050.49	812	3047.605	32803.11	9
2980.409	33542.65	708	3000.4511	33318.608	200	3025.2800	33045.169	102	3048.001	32798.85	585
2980.5324	33541.265	669	3000.577	33317.21	1050	3025.6364	33041.277	493	3049.144	32786.55	580
2980.592	33540.59	501	3000.9478	33313.094	9	3025.8424	33039.027	9	3049.3528	32784.308	809
2981.140	33534.43	715	3001.658	33305.21	945	3026.4619	33032.265	103	3049.538	32782.32	1048
2981.4450	33530.998	11	3001.787	33303.78	585	3027.589	33019.97	580	3050.770	32769.08	998
2981.722	33527.88	714	3001.827	33303.34	950	3027.700	33018.76	495	3052.491	32750.60	809
2981.8509	33526.434	307	3001.924	33302.26	889	3029.074	33003.78	804	3053.0656	32744.441	386
2981.8509	33526.434	670	3003.0307	33289.989	103	3029.2340	33002.038	200	3053.4283	32740.552	808
2981.970	33525.09	500	3003.251	33287.55	1055	3030.1483	32992.080	493	3053.4535	32740.282	104
2982.015	33524.59	1054	3003.338	33286.58	888	3030.6038	32987.122	381	3053.755	32737.05	1166
2982.228	33522.19	889	3003.687	33282.72	1050	3030.759	32985.43	888	3053.856	32735.97	582
2982.380	33520.49	1056	3004.1136	33277.989	494	3030.959	32983.26	380	3055.2624	32720.898	199
2983.419	33508.81	494	3004.6269	33272.304	201	3031.2125	32980.498	493	3055.2935	32720.565	808
2983.570	33507.12	9	3005.006	33268.11	707	3031.330	32979.22	814	3055.357	32719.89	1217
2983.7754	33504.811	671	3005.3027	33264.823	494	3031.472	32977.68	579	3055.6817	32716.408	578
2983.857	33503.90	1055	3005.726	33260.14	579	3031.6366	32975.884	103	3056.101	32711.92	1217
2984.558	33496.03	709	3005.966	33257.48	815	3031.712	32975.06	810	3056.101	32711.92	813
2984.7681	33493.668	102	3006.539	33251.14	1053	3031.860	32973.45	1216	3056.2418	32710.413	578
2984.952	33491.60	582	3006.596	33250.51	1052	3032.051	32971.38	886	3056.580	32706.79	807
2985.168	33489.18	1056	3006.608	33250.38	586	3033.098	32960.00	386	3057.4458	32697.532	101
2985.7281	33482.900	576	3007.1452	33244.442	199	3033.796	32952.41	778	3057.584	32696.05	1046
2985.901	33480.96	1055	3007.2824	33242.925	11	3034.479	32945.00	201	3057.718	32694.62	583
2986.4559	33474.740	11	3007.471	33240.84	379	3034.5366	32944.372	812	3057.7884	32693.869	102
2986.6546	33472.513	499	3008.1382	33233.468	9	3034.592	32943.77	810	3057.958	32692.06	1047
2987.032	33468.28	585	3008.483	33229.66	1053	3035.7357	32931.360	815	3058.038	32691.20	1047

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
3058.078	32690.77	1218	3078.502	32473.90	885	3099.122	32257.84	575	3119.4949	32047.179	489
3058.363	32687.73	581	3079.610	32462.22	1219	3099.385	32255.10	302	3119.5815	32046.290	196
3058.4914	32686.354	1107	3079.833	32459.86	304	3099.502	32253.89	885	3120.019	32041.80	577
3059.0858	32680.004	9	3079.9885	32458.226	1107	3099.670	32252.14	1214	3120.2322	32039.607	660
3059.530	32675.26	1051	3080.1085	32456.961	660	3099.670	32252.14	199	3120.4354	32037.521	489
3060.5378	32664.500	885	3080.356	32454.35	581	3099.8945	32249.803	101	3120.8754	32033.004	1041
3060.626	32663.56	809	3080.590	32451.89	1047	3099.9682	32249.037	101	3121.491	32026.69	805
3060.7766	32661.952	808	3080.879	32448.84	1217	3100.3035	32245.549	101	3121.777	32023.75	1041
3060.9833	32659.746	199	3081.0014	32447.555	942	3100.6650	32241.790	101	3122.2947	32018.443	655
3061.108	32658.42	886	3081.223	32445.22	812	3100.8363	32240.009	490	3122.324	32018.14	997
3061.162	32657.84	583	3081.293	32444.49	885	3101.0024	32238.282	666	3122.536	32015.97	1214
3061.969	32649.23	1216	3081.700	32440.20	1218	3101.6001	32232.069	1041	3122.668	32014.62	662
3062.164	32647.15	886	3081.831	32438.82	197	3102.259	32225.22	302	3123.129	32009.89	1215
3062.826	32640.10	1048	3083.057	32425.92	1217	3102.6367	32221.301	102	3123.199	32009.17	490
3062.874	32639.59	884	3083.057	32425.92	886	3102.763	32219.99	812	3123.265	32008.50	302
3063.151	32636.63	304	3083.150	32424.94	492	3102.8692	32218.887	1041	3123.351	32007.62	428
3063.9295	32628.343	387	3083.490	32421.37	1046	3103.769	32209.55	385	3123.552	32005.56	667
3064.020	32627.38	813	3083.7409	32418.731	101	3103.8524	32208.681	378	3124.093	32000.01	429
3064.695	32620.19	1044	3085.291	32402.44	804	3103.8524	32208.681	997	3124.886	31991.89	1041
3064.837	32618.68	1219	3086.524	32389.50	1215	3103.855	32208.65	997	3125.038	31990.34	197
3066.4789	32601.217	666	3087.434	32379.95	1044	3103.982	32207.34	1217	3125.269	31987.97	666
3066.486	32601.14	1215	3088.172	32372.22	1041	3105.556	32191.01	577	3125.646	31984.11	424
3066.689	32598.98	884	3088.2145	32371.46	1215	3105.659	32189.95	196	3125.646	31984.11	666
3066.813	32597.67	1049	3088.244	32371.46	1044	3106.512	32181.11	1046	3125.6505	31984.068	101
3066.9970	32595.710	1107	3088.346	32370.39	1044	3106.539	32180.83	491	3125.6825	31983.741	489
3067.1183	32594.421	200	3088.761	32366.04	1215	3107.333	32172.61	1041	3125.694	31983.62	1106
3067.2439	32593.086	101	3089.500	32358.30	655	3107.623	32169.60	1217	3126.1765	31978.687	1041
3067.9482	32585.604	665	3089.623	32357.01	1216	3107.976	32165.95	576	3126.754	31972.78	1106
3068.1735	32583.212	199	3090.2048	32350.922	666	3107.976	32165.95	662	3126.837	31971.93	574
3068.301	32581.86	1045	3090.729	32345.44	1044	3108.917	32156.21	805	3127.125	31968.99	775
3068.451	32580.26	1043	3091.002	32342.58	1048	3108.957	32155.80	384	3128.8980	31950.873	198
3068.727	32577.34	807	3091.090	32341.66	1045	3110.1950	32143.001	387	3129.3331	31946.431	195
3068.940	32575.07	197	3091.420	32338.21	1166	3110.2759	32142.165	1045	3129.802	31941.65	706
3069.332	32570.91	812	3091.5765	32336.569	101	3110.663	32138.16	1215	3130.205	31937.53	1213
3069.440	32569.77	1044	3091.688	32335.40	804	3110.8360	32136.378	657	3131.235	31927.03	303
3070.034	32563.47	808	3091.875	32333.45	1218	3110.928	32135.43	657	3131.455	31924.78	429
3070.226	32561.43	668	3092.079	32331.31	1217	3111.6814	32127.647	574	3132.5180	31913.952	1042
3070.540	32558.10	383	3092.482	32327.10	1217	3112.0772	32123.561	882	3132.649	31912.62	1106
3070.694	32556.47	1046	3092.7817	32323.969	102	3112.238	32121.90	879	3133.170	31907.31	1169
3070.785	32555.50	1166	3093.310	32318.45	578	3112.836	32115.73	304	3133.963	31899.24	425
3071.1251	32551.898	1217	3093.529	32316.16	304	3113.433	32109.57	1168	3134.1100	31897.741	101
3071.277	32550.29	884	3093.8052	32313.276	199	3113.5881	32107.974	655	3134.249	31896.33	1165
3071.428	32548.69	806	3093.8777	32312.518	578	3113.666	32107.17	429	3134.412	31894.67	661
3071.679	32546.03	812	3094.291	32308.20	1214	3113.822	32105.56	1165	3134.639	31892.36	665
3072.046	32542.14	1048	3094.871	32302.15	1218	3114.066	32103.05	196	3134.934	31889.36	706
3072.293	32539.52	811	3094.871	32302.15	665	3114.297	32100.67	1217	3135.4573	31884.035	1041
3072.487	32537.47	1218	3094.8997	32301.848	655	3115.010	32093.32	664	3135.5907	31882.679	662
3073.235	32529.55	999	3095.216	32298.55	805	3115.6572	32086.652	942	3135.8606	31879.935	489
3073.871	32522.82	942	3095.267	32298.02	1043	3115.858	32084.58	1214	3136.5008	31873.428	1045
3073.9785	32521.683	666	3095.2670	32298.016	662	3115.870	32084.46	884	3136.761	31870.78	657
3074.1481	32519.889	885	3096.045	32289.90	660	3116.193	32081.14	302	3137.021	31868.14	706
3074.694	32514.12	580	3096.616	32283.95	1217	3116.280	32080.24	429	3137.021	31868.14	770
3075.7196	32503.274	101	3096.8764	32281.231	661	3116.394	32079.07	578	3137.781	31860.42	775
3075.996	32500.35	1048	3096.877	32281.22	809	3116.474	32078.24	302	3138.398	31854.16	197
3076.277	32497.38	808	3096.975	32280.20	1043	3116.6315	32076.621	101	3138.5145	31852.979	657
3076.759	32492.29	806	3097.494	32274.80	429	3116.997	32072.86	1045	3139.023	31847.82	1215
3077.013	32489.61	998	3097.780	32271.82	1214	3117.412	32068.59	1214	3139.606	31841.91	490
3077.548	32483.96	1217	3097.959	32269.95	1216	3117.6401	32066.245	102	3139.6601	31841.357	419
3077.6359	32483.036	578	3098.1893	32267.552	666	3117.977	32062.78	1217	3139.918	31838.74	664
3078.0157	32479.028	102	3098.548	32263.82	884	3118.164	32060.86	706	3140.3898	31833.958	1042
3078.354	32475.46	1218	3098.970	32259.42	304	3119.038	32051.87	665	3141.513	31822.58	1214
3078.4322	32474.634	386	3098.998	32259.13	1214	3119.181	32050.40	1214	3141.886	31818.80	573

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
3142.4539	31813.049	428	3158.567	31650.76	1039	3174.218	31494.71	1042	3192.406	31315.28	1204
3142.456	31813.03	1041	3159.0211	31646.215	879	3175.3119	31483.861	194	3192.4093	31315.251	301
3142.8889	31808.646	377	3159.123	31645.19	1213	3175.312	31483.86	1164	3192.5056	31314.306	659
3142.895	31808.58	1165	3159.250	31643.92	573	3175.381	31483.18	706	3192.8004	31311.415	419
3142.944	31808.09	996	3159.435	31642.07	665	3175.4447	31482.544	419	3192.8433	31310.994	879
3143.2426	31805.067	7	3160.1965	31634.445	1042	3175.984	31477.20	704	3193.2259	31307.243	7
3143.9905	31797.501	1042	3160.243	31633.98	706	3176.283	31474.24	1042	3193.2999	31306.518	423
3144.428	31793.08	658	3160.3415	31632.993	486	3176.3593	31473.480	571	3193.730	31302.30	1164
3144.4967	31792.383	1041	3160.6574	31629.832	419	3177.071	31466.43	194	3194.335	31296.37	769
3144.923	31788.07	486	3160.7740	31628.665	423	3178.0128	31457.105	420	3194.4238	31295.503	419
3145.0570	31786.719	879	3160.9182	31627.222	424	3178.170	31455.55	487	3194.5938	31293.838	704
3145.165	31785.63	661	3161.3710	31622.692	195	3178.5364	31451.923	879	3195.070	31289.17	1203
3146.270	31774.46	1167	3161.5512	31620.890	486	3178.607	31451.22	1039	3195.230	31287.61	1210
3146.469	31772.45	424	3161.9463	31616.939	424	3178.657	31450.73	770	3195.9594	31280.467	486
3146.604	31771.09	1169	3162.3300	31613.103	423	3178.9622	31447.711	486	3196.1226	31278.870	704
3146.895	31768.15	655	3162.3300	31613.103	660	3179.047	31446.87	1206	3196.549	31274.70	1033
3147.2913	31764.154	663	3162.331	31613.09	423	3179.4785	31442.604	195	3196.626	31273.94	777
3147.601	31761.03	1041	3162.516	31611.24	661	3180.094	31436.52	1211	3196.9274	31270.996	419
3147.750	31759.53	770	3162.568	31610.72	1033	3180.2234	31435.240	419	3196.9868	31270.415	8
3147.7948	31759.073	883	3163.114	31605.27	196	3180.479	31432.71	777	3197.310	31267.25	1209
3148.165	31755.34	667	3163.372	31602.69	657	3180.7554	31429.982	7	3197.5140	31265.259	1204
3148.315	31753.83	706	3163.8713	31597.703	659	3181.044	31427.13	375	3197.749	31262.96	1040
3148.4058	31752.910	489	3164.2961	31593.461	427	3181.237	31425.22	1208	3198.033	31260.19	1040
3148.4654	31752.309	425	3164.811	31588.32	664	3181.5194	31422.435	571	3198.2642	31257.926	571
3148.6809	31750.136	303	3164.916	31587.27	657	3181.749	31420.17	1210	3198.476	31255.86	1037
3149.495	31741.93	880	3165.0036	31586.399	419	3181.8472	31419.198	704	3199.4996	31245.857	7
3149.723	31739.63	1212	3165.077	31585.67	489	3181.9114	31418.564	419	3199.5304	31245.556	420
3150.201	31734.82	425	3165.128	31585.16	1210	3181.924	31418.44	941	3199.653	31244.36	1201
3150.240	31734.42	662	3165.161	31584.83	301	3182.0555	31417.141	423	3199.938	31241.58	420
3150.3068	31733.750	1045	3165.262	31583.82	771	3182.225	31415.47	881	3200.3159	31237.887	656
3150.760	31729.19	1324	3165.8577	31577.878	424	3182.336	31414.37	1033	3200.4716	31236.368	419
3151.102	31725.74	1169	3165.934	31577.12	488	3182.808	31409.71	1165	3200.474	31236.34	426
3151.8656	31718.057	7	3166.2444	31574.021	419	3182.974	31408.08	301	3200.7844	31233.315	8
3152.0045	31716.659	1208	3166.336	31573.11	487	3182.974	31408.08	704	3201.446	31226.86	1037
3152.969	31706.96	1106	3166.4355	31572.116	573	3183.109	31406.74	880	3201.613	31225.23	1038
3153.056	31706.08	300	3166.5867	31570.608	1207	3183.5751	31402.145	486	3202.5558	31216.040	992
3153.056	31706.08	880	3166.592	31570.56	1207	3184.107	31396.90	1204	3202.657	31215.05	195
3153.1997	31704.637	425	3166.592	31570.56	301	3184.2012	31395.971	775	3202.947	31212.23	704
3153.3136	31703.492	424	3166.861	31567.87	1289	3184.6174	31391.868	426	3203.831	31203.62	1033
3154.110	31695.49	196	3166.974	31566.75	879	3184.618	31391.86	419	3204.305	31199.00	1105
3154.3851	31692.723	300	3167.782	31558.70	300	3184.8947	31389.135	7	3204.462	31197.47	1208
3154.4295	31692.277	1166	3167.9209	31557.313	1042	3186.254	31375.74	1167	3205.210	31190.19	705
3154.433	31692.24	771	3168.1422	31555.108	704	3186.787	31370.50	1033	3205.3980	31188.362	419
3154.4966	31691.603	425	3168.521	31551.34	771	3186.8096	31370.275	301	3205.778	31184.67	567
3155.118	31685.36	425	3168.8542	31548.019	424	3186.943	31368.96	658	3206.855	31174.19	573
3155.2934	31683.600	488	3168.942	31547.14	424	3186.943	31368.96	706	3207.0752	31172.052	423
3155.7959	31678.556	486	3169.335	31543.23	1204	3187.158	31366.85	704	3207.188	31170.96	1033
3156.2738	31673.759	1042	3169.335	31543.23	198	3187.6783	31361.726	195	3207.243	31170.42	1036
3156.421	31672.28	706	3170.131	31535.31	661	3188.0173	31358.391	656	3207.5817	31167.130	1035
3156.4630	31671.861	879	3171.348	31523.21	195	3188.494	31353.70	657	3207.656	31166.41	777
3156.895	31667.53	1106	3171.3513	31523.179	995	3188.530	31353.35	1204	3208.4706	31158.495	1204
3157.0362	31666.111	424	3171.6623	31520.088	424	3188.5675	31352.980	423	3208.762	31155.67	1034
3157.1432	31665.037	377	3171.764	31519.08	767	3188.8191	31350.507	423	3208.876	31154.56	1206
3157.204	31664.43	1211	3172.0383	31516.352	488	3190.0163	31338.741	573	3209.105	31152.34	299
3157.289	31663.58	665	3172.0837	31515.901	300	3190.6495	31332.522	994	3209.2982	31150.461	1204
3157.409	31662.37	880	3172.1121	31515.619	301	3190.8167	31330.880	992	3209.2982	31150.461	704
3157.4513	31661.948	658	3172.290	31513.85	663	3190.932	31329.75	660	3210.1865	31141.841	572
3157.8850	31657.599	1214	3172.500	31511.77	1212	3191.1116	31327.985	571	3210.2291	31141.428	423
3157.8850	31657.599	428	3173.239	31504.43	775	3191.193	31327.19	880	3210.383	31139.94	1161
3157.9873	31656.574	423	3173.4063	31502.766	704	3191.374	31325.41	1207	3210.643	31137.41	776
3158.213	31654.31	424	3173.6065	31500.779	704	3191.499	31324.18	777	3210.8292	31135.608	420
3158.391	31652.53	1169	3173.6878	31499.972	656	3191.6592	31322.610	8	3211.137	31132.62	193

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
3211.4828	31129.271	426	3229.7938	30952.793	1201	3250.3969	30756.602	774	3306.5851	30233.978	870
3211.6075	31128.063	704	3229.8710	30952.054	1201	3250.6235	30754.458	298	3307.0053	30230.136	874
3211.6774	31127.385	1204	3229.955	30951.25	567	3250.7590	30753.176	1104	3307.2337	30228.049	1102
3211.8751	31125.469	1204	3229.9909	30950.905	993	3252.4289	30737.387	1201	3307.6862	30223.914	803
3211.9873	31124.382	422	3230.096	30949.90	100	3252.9144	30732.799	567	3310.3412	30199.674	877
3211.995	31124.31	1203	3230.1563	30949.320	420	3253.5990	30726.333	1162	3310.4907	30198.310	1159
3212.160	31122.71	1210	3230.2072	30948.832	422	3253.8239	30724.209	1201	3312.2216	30182.530	876
3212.320	31121.16	1163	3230.214	30948.77	1161	3253.8239	30724.209	566	3314.0663	30165.730	1248
3212.557	31118.86	1161	3230.847	30942.70	1035	3253.9428	30723.087	570	3314.4428	30162.303	566
3212.673	31117.74	1201	3230.9636	30941.587	421	3254.3619	30719.130	1104	3314.7413	30159.587	1160
3213.674	31108.05	656	3231.5794	30935.691	192	3254.7233	30715.719	653	3317.1209	30137.952	372
3213.756	31107.25	880	3232.161	30930.12	1036	3256.7007	30697.070	1201	3319.2531	30118.593	877
3214.0126	31104.770	1204	3232.161	30930.12	571	3257.212	30692.25	100	3320.6430	30105.987	483
3214.0126	31104.770	420	3232.703	30924.94	773	3257.2345	30692.039	878	3320.7738	30104.801	803
3214.0616	31104.296	422	3232.796	30924.05	776	3257.5927	30688.665	295	3322.4729	30089.406	803
3214.3958	31101.062	7	3232.937	30922.70	1161	3259.9895	30666.103	421	3323.7364	30077.968	768
3214.6127	31098.964	376	3233.0518	30921.603	1104	3260.2672	30663.491	566	3324.3703	30072.233	1102
3215.215	31093.14	1203	3233.2795	30919.425	374	3261.3256	30653.540	1205	3324.5366	30070.729	484
3215.4087	31091.265	655	3233.705	30915.36	1034	3262.0084	30647.124	1202	3324.7821	30068.509	872
3215.8334	31087.159	1205	3233.9675	30912.848	422	3263.3694	30634.343	377	3325.4647	30062.337	484
3215.9380	31086.148	420	3234.450	30908.24	1039	3264.5122	30623.619	295	3327.4957	30043.988	483
3215.985	31085.69	1203	3234.6132	30906.677	8	3264.6946	30621.908	421	3328.8659	30031.622	1102
3215.985	31085.69	658	3235.324	30899.89	654	3265.0469	30618.604	8	3329.5229	30025.696	990
3216.051	31085.06	1164	3235.5885	30897.361	653	3265.5433	30613.950	653	3331.6111	30006.877	484
3216.718	31078.61	1039	3235.813	30895.22	772	3265.6166	30613.263	297	3331.7750	30005.401	377
3217.3772	31072.243	421	3236.2223	30891.310	7	3268.2329	30588.757	298	3334.2177	29983.420	483
3219.368	31053.03	653	3236.418	30889.44	1035	3269.2290	30579.437	1202	3334.2718	29982.933	1102
3219.5821	31050.964	420	3237.2226	30881.765	194	3270.9999	30562.882	297	3335.5111	29971.793	191
3219.7662	31049.189	8	3237.497	30879.15	1039	3271.4847	30558.353	1160	3335.7155	29969.957	652
3219.8046	31048.819	422	3238.318	30871.32	993	3271.6835	30556.496	191	3335.7685	29969.481	768
3221.644	31031.09	1203	3239.0119	30864.706	373	3272.5964	30547.973	193	3336.2567	29965.095	1103
3221.871	31028.91	776	3239.0421	30864.418	374	3274.4508	30530.673	1202	3337.6651	29952.451	649
3221.9162	31028.470	420	3239.307	30861.89	1038	3276.4704	30511.855	295	3338.6208	29943.878	803
3222.059	31027.10	567	3239.344	30861.54	774	3278.7313	30490.816	566	3339.1946	29938.732	483
3222.0671	31027.017	420	3239.4329	30860.695	421	3279.7310	30481.522	877	3339.5768	29935.306	940
3223.084	31017.23	1164	3239.4574	30860.462	421	3280.2604	30476.603	1104	3340.5643	29926.457	372
3223.255	31015.58	1037	3239.6588	30858.543	772	3282.8903	30452.189	1160	3341.9060	29914.443	650
3223.2675	31015.463	193	3240.0123	30855.176	992	3284.5875	30436.455	297	3342.2144	29911.683	371
3223.437	31013.83	704	3240.112	30854.23	422	3285.1933	30430.842	803	3342.2918	29910.990	766
3223.478	31013.44	1105	3240.363	30851.84	1250	3286.0151	30423.232	295	3343.2394	29902.512	293
3223.843	31009.93	100	3240.970	30846.06	1201	3286.4448	30419.254	1202	3343.7605	29897.852	803
3224.9240	30999.532	775	3241.508	30840.94	100	3286.7530	30416.402	297	3344.9393	29887.316	1200
3225.051	30998.31	1104	3241.508	30840.94	1037	3287.0897	30413.287	803	3346.9345	29869.500	292
3225.6074	30992.964	485	3241.682	30839.28	1161	3288.6490	30398.867	377	3347.9255	29860.659	370
3225.7872	30991.237	419	3242.2578	30833.808	569	3288.9653	30395.943	295	3349.7243	29844.624	766
3226.0135	30989.063	568	3242.986	30826.88	1038	3289.4351	30391.602	768	3351.5219	29828.618	294
3226.436	30985.01	1038	3243.1084	30825.721	485	3290.7122	30379.808	295	3351.7440	29826.641	649
3226.7146	30982.330	8	3243.3996	30822.953	1202	3290.9883	30377.259	298	3353.2603	29813.154	483
3226.720	30982.28	941	3243.8749	30818.437	1205	3292.0208	30367.732	1160	3354.0594	29806.052	766
3226.893	30980.62	1037	3244.1876	30815.467	420	3292.5895	30362.487	297	3355.2277	29795.673	1102
3227.0612	30979.003	420	3244.547	30812.05	1038	3293.1406	30357.406	193	3356.3125	29786.043	98
3227.269	30977.01	1249	3245.375	30804.19	704	3296.4638	30326.804	566	3356.4015	29785.254	1409
3227.7955	30971.955	421	3245.410	30803.86	1201	3298.1319	30311.466	295	3356.4015	29785.254	371
3227.9953	30970.038	774	3245.9657	30798.587	100	3301.2195	30283.117	768	3356.6831	29782.755	982
3228.2490	30967.605	421	3246.0048	30798.216	8	3303.5296	30261.941	296	3359.4864	29757.904	98
3228.396	30966.19	776	3246.4802	30793.706	567	3303.5689	30261.581	877	3359.8088	29755.048	1102
3228.494	30965.25	1201	3246.9607	30789.150	298	3305.8521	30240.681	803	3360.9248	29745.168	374
3228.5975	30964.262	1104	3247.2100	30786.786	567	3305.9708	30239.596	297	3361.9487	29736.110	766
3228.8987	30961.374	421	3247.2801	30786.121	421	3306.0809	30238.589	870	3362.2681	29733.285	872
3229.1203	30959.249	8	3248.2042	30777.363	421	3306.3396	30236.223	991	3364.2611	29715.671	939
3229.570	30954.94	704	3249.1911	30768.015	565	3306.3548	30236.084	297	3366.7854	29693.392	647
3229.613	30954.53	656	3249.5064	30765.030	193	3306.4818	30234.922	1160	3366.8639	29692.700	292

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
3367.1540	29690.142	374	3416.2800	29263.212	988	3471.3431	28799.047	365	3522.8976	28377.611	703
3367.2161	29689.594	1198	3417.2563	29254.852	99	3473.2970	28782.847	983	3523.1748	28375.378	1156
3369.1390	29672.650	484	3417.8406	29249.851	288	3473.6842	28779.639	1339	3523.3087	28374.300	699
3369.5474	29669.054	649	3418.1643	29247.081	1342	3475.4502	28765.015	6	3524.0742	28368.137	560
3370.7834	29658.175	649	3418.5071	29244.148	288	3475.6516	28763.348	285	3524.2398	28366.804	365
3372.0738	29646.826	289	3419.1450	29238.692	871	3475.8634	28761.596	481	3524.5188	28364.558	646
3372.3438	29644.452	875	3419.6939	29233.999	765	3476.3444	28757.616	1340	3525.8535	28353.821	702
3373.8711	29631.033	650	3422.4924	29210.096	986	3476.7018	28754.660	6	3526.0408	28352.315	6
3374.1920	29628.215	294	3422.6560	29208.700	291	3476.8543	28753.399	562	3526.1658	28351.310	97
3376.4911	29608.042	1343	3424.2844	29194.810	288	3477.0038	28752.163	372	3526.2380	28350.730	700
3378.6789	29588.870	648	3425.0100	29188.625	987	3477.8509	28745.160	287	3526.3814	28349.577	699
3378.7332	29588.395	371	3426.3243	29177.429	369	3478.3698	28740.872	480	3526.4675	28348.885	364
3379.0180	29585.901	291	3426.3825	29176.934	287	3478.6229	28738.781	985	3526.6746	28347.220	699
3380.1100	29576.343	649	3426.3825	29176.934	98	3479.6774	28730.072	1323	3527.7928	28338.235	699
3380.7468	29570.772	939	3426.6280	29174.843	287	3480.3375	28724.623	1032	3527.8898	28337.456	645
3381.3339	29565.638	764	3426.6659	29174.521	1101	3481.5635	28714.508	366	3528.2384	28334.656	478
3382.4020	29556.302	290	3426.9880	29171.779	99	3483.0071	28702.607	97	3529.5242	28324.334	981
3383.6917	29545.037	291	3427.1195	29170.659	288	3484.8506	28687.424	480	3529.8198	28321.962	699
3383.9791	29542.528	289	3428.0097	29163.084	1100	3484.9785	28686.371	370	3530.3868	28317.414	699
3385.4361	29529.814	873	3428.1927	29161.528	288	3485.3402	28683.394	285	3531.4378	28308.986	478
3387.4055	29512.646	651	3428.7481	29156.804	1341	3486.5518	28673.427	286	3532.5691	28299.921	1150
3387.6169	29510.804	1199	3431.8116	29130.777	764	3489.4117	28649.927	869	3533.0066	28296.416	699
3387.6169	29510.804	1342	3431.8427	29130.513	1158	3489.6677	28647.825	869	3533.1982	28294.882	699
3388.6189	29502.078	939	3433.5679	29115.877	648	3490.5740	28640.387	6	3534.5257	28284.255	1322
3389.7419	29492.305	292	3437.0445	29086.427	984	3490.7438	28638.994	367	3534.5257	28284.255	1408
3392.0096	29472.589	938	3437.9489	29078.776	1100	3493.2805	28618.198	190	3534.9063	28281.210	190
3392.3049	29470.023	1198	3438.3066	29075.751	1339	3493.6892	28614.850	646	3536.5559	28268.019	699
3392.3049	29470.023	289	3439.0358	29069.586	647	3493.6892	28614.850	871	3537.4921	28260.538	560
3392.6524	29467.005	291	3439.8684	29062.550	1339	3495.2867	28601.772	559	3537.7291	28258.645	560
3393.3775	29460.708	764	3440.6059	29056.320	6	3497.0030	28587.735	645	3537.8949	28257.320	700
3393.9136	29456.055	1339	3440.9887	29053.088	6	3497.1033	28586.915	285	3538.2516	28254.472	762
3394.0774	29454.633	482	3442.1393	29043.377	1339	3497.1482	28586.548	285	3538.5534	28252.062	371
3394.5832	29450.245	288	3442.3619	29041.499	368	3497.8406	28580.890	6	3538.7820	28250.237	1322
3396.3767	29434.694	98	3442.6690	29038.908	99	3497.8870	28580.511	935	3540.1211	28239.551	702
3396.9755	29429.505	99	3442.9724	29036.349	938	3497.9595	28579.918	1032	3540.7097	28234.857	96
3397.2037	29427.528	937	3443.8765	29028.727	6	3500.5647	28558.649	559	3540.8009	28234.130	480
3397.5515	29424.516	875	3445.1491	29018.004	288	3501.5676	28550.470	1340	3541.0833	28231.878	699
3397.6382	29423.765	99	3445.7645	29012.822	1341	3504.8612	28523.641	364	3542.0756	28223.969	699
3398.2170	29418.754	649	3446.7868	29004.217	564	3505.0586	28522.035	934	3542.2434	28222.632	363
3399.2283	29410.002	647	3447.2782	29000.083	287	3506.4977	28510.329	365	3543.3851	28213.539	479
3399.3331	29409.095	291	3448.7815	28987.442	763	3506.5803	28509.658	700	3543.6749	28211.232	1246
3401.5187	29390.199	99	3450.3281	28974.449	287	3508.4745	28494.266	869	3544.6298	28203.632	560
3402.2559	29383.831	1101	3451.6134	28963.660	372	3508.5182	28493.911	560	3545.6400	28195.597	694
3403.2900	29374.903	766	3451.9145	28961.134	288	3509.1188	28489.034	699	3545.8308	28194.080	980
3404.2702	29366.445	98	3452.2746	28958.113	98	3509.7258	28484.107	700	3546.2053	28191.102	479
3404.3008	29366.181	648	3453.0204	28951.859	648	3509.8616	28483.005	285	3547.1942	28183.243	1099
3404.3539	29365.723	289	3456.2443	28924.854	936	3510.4391	28478.320	372	3548.0206	28176.679	932
3405.8315	29352.984	647	3457.0869	28917.804	1340	3511.7377	28467.789	559	3549.8648	28162.041	190
3406.4367	29347.769	1158	3458.3033	28907.633	372	3512.2256	28463.835	699	3552.1060	28144.273	935
3406.7995	29344.644	291	3459.4265	28898.248	646	3512.9544	28457.930	935	3552.4250	28141.746	478
3406.8320	29344.364	1343	3459.9140	28894.176	935	3513.0531	28457.130	190	3552.8280	28138.554	694
3407.4596	29338.959	289	3462.3520	28873.831	286	3513.8180	28450.936	97	3552.8551	28138.339	935
3407.5317	29338.338	288	3463.3028	28865.904	190	3514.6272	28444.385	479	3553.7386	28131.344	1321
3409.5881	29320.644	482	3464.9108	28852.509	561	3516.4090	28429.973	869	3554.1182	28128.339	96
3410.0278	29316.864	989	3465.8606	28844.602	6	3516.5574	28428.773	699	3554.5014	28125.307	698
3410.1692	29315.648	1247	3466.2829	28841.088	480	3518.6829	28411.601	700	3554.6428	28124.188	1151
3410.8953	29309.408	98	3466.4988	28839.292	97	3518.8697	28410.093	285	3554.9246	28121.959	699
3411.1257	29307.428	647	3466.8927	28836.015	563	3520.0231	28400.784	1154	3555.4481	28117.818	1154
3411.3532	29305.474	648	3468.8445	28819.791	562	3520.8465	28394.142	559	3556.6806	28108.075	698
3413.1324	29290.198	291	3469.0119	28818.400	1101	3521.2612	28390.798	97	3556.8779	28106.516	700
3415.5312	29269.627	289	3469.8305	28811.601	562	3521.8368	28386.158	285	3558.4127	28094.393	868
3416.0463	29265.214	1199	3471.2656	28799.690	287	3522.2680	28382.683	699	3558.5151	28093.585	97

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
3559.5033	28085.786	934	3593.3227	27821.457	1030	3620.2402	27614.602	697	3650.2792	27387.361	475
3560.6968	28076.372	1155	3594.6322	27811.322	695	3620.4656	27612.883	1154	3651.0975	27381.223	695
3564.5153	28046.296	479	3595.3014	27806.146	695	3621.1966	27607.309	1031	3651.4669	27378.453	643
3564.5570	28045.968	479	3595.8646	27801.791	476	3621.4607	27605.296	642	3653.7545	27361.312	475
3565.3790	28039.502	97	3596.1960	27799.229	476	3621.7190	27603.327	1319	3653.9666	27359.724	1479
3565.5813	28037.911	694	3597.0211	27792.852	1028	3622.0034	27601.160	643	3654.6741	27354.428	284
3566.3098	28032.184	362	3597.0526	27792.609	1145	3623.1860	27592.151	475	3655.3513	27349.360	364
3566.5805	28030.056	476	3598.7173	27779.753	1157	3623.4466	27590.167	555	3655.4649	27348.510	760
3567.0312	28026.515	698	3598.9291	27778.118	1027	3623.7731	27587.681	696	3656.2097	27342.939	1147
3567.3690	28023.861	479	3598.9794	27777.730	695	3624.0621	27585.481	1029	3656.3483	27341.903	696
3568.4324	28015.510	694	3599.6251	27772.747	1320	3624.3079	27583.610	367	3657.1329	27336.037	365
3568.8234	28012.441	1156	3602.0827	27753.799	695	3625.1417	27577.266	696	3657.8985	27330.316	802
3568.9745	28011.255	642	3602.4621	27750.876	695	3627.0562	27562.710	1319	3658.0203	27329.406	864
3570.0103	28003.128	369	3602.5255	27750.388	697	3628.0916	27554.844	284	3659.5168	27318.230	475
3570.098	28002.44	97	3602.7648	27748.545	761	3628.8106	27549.385	864	3659.7336	27316.612	1152
3570.2542	28001.215	699	3603.0886	27746.051	1197	3630.3478	27537.720	696	3660.3265	27312.187	696
3571.2257	27993.598	189	3603.2035	27745.166	643	3631.0970	27532.038	695	3661.3635	27304.452	474
3571.9953	27987.567	694	3603.5675	27742.364	476	3631.2643	27530.770	1094	3662.8375	27293.464	1479
3572.5905	27982.904	698	3603.6810	27741.490	557	3631.4632	27529.262	96	3663.2591	27290.323	862
3573.3936	27976.615	1156	3603.8179	27740.436	932	3632.0388	27524.899	932	3663.4514	27288.891	553
3573.8291	27973.206	476	3603.9415	27739.485	1197	3632.5554	27520.985	863	3663.9602	27285.101	862
3573.8886	27972.740	1098	3604.3716	27736.175	696	3632.9769	27517.792	369	3664.5374	27280.804	800
3574.2440	27969.959	1031	3605.2010	27729.794	1087	3633.0691	27517.094	799	3664.6913	27279.658	799
3575.1136	27963.156	694	3605.4528	27727.858	642	3633.8268	27511.356	865	3666.2416	27268.123	474
3575.2452	27962.127	695	3605.5006	27727.490	695	3633.8853	27510.913	1148	3666.2416	27268.123	798
3575.3700	27961.151	932	3606.3760	27720.760	555	3634.1881	27508.621	1152	3666.7670	27264.216	1244
3575.9775	27956.401	701	3606.5334	27719.550	367	3634.1881	27508.621	1480	3667.2531	27260.602	1029
3576.7587	27950.295	1097	3606.5998	27719.040	1154	3634.3278	27507.564	798	3667.9862	27255.154	1028
3578.3825	27937.612	694	3606.6794	27718.428	642	3634.3965	27507.044	1089	3667.9862	27255.154	864
3578.6765	27935.317	362	3608.1416	27707.195	698	3634.4608	27506.557	1155	3668.2105	27253.487	1027
3581.193	27915.69	96	3608.1742	27706.945	864	3634.6970	27504.770	1457	3668.8921	27248.424	553
3581.6467	27912.151	643	3608.8593	27701.685	96	3635.1852	27501.076	1089	3669.1519	27246.495	863
3581.8075	27910.898	934	3609.3366	27698.022	1197	3636.1614	27493.693	1027	3669.5212	27243.753	640
3582.1999	27907.841	1094	3610.1591	27691.712	694	3636.1614	27493.693	284	3670.0244	27240.018	760
3582.3201	27906.904	1151	3610.2785	27690.796	1027	3636.2236	27493.223	1288	3670.0884	27239.543	862
3582.5642	27905.003	476	3610.6946	27687.605	696	3636.4811	27491.276	1027	3670.8075	27234.207	367
3582.6833	27904.075	701	3612.0686	27677.073	698	3636.6491	27490.006	929	3671.6878	27227.677	644
3583.6818	27896.301	1030	3612.9362	27670.427	189	3636.9941	27487.398	555	3672.7075	27220.118	475
3584.6594	27888.693	642	3612.9362	27670.427	284	3637.0458	27487.008	864	3673.0822	27217.341	1481
3584.7858	27887.710	695	3613.1448	27668.830	697	3637.2486	27485.475	475	3674.0407	27210.241	1096
3584.9577	27886.373	1098	3613.4434	27666.543	1087	3637.7342	27481.806	553	3674.4064	27207.533	1091
3585.1897	27884.568	864	3613.4434	27666.543	1155	3637.8675	27480.799	794	3674.7636	27204.888	760
3585.3189	27883.563	96	3613.6062	27665.297	1150	3638.1579	27478.606	697	3676.3110	27193.438	554
3585.7054	27880.558	96	3613.7159	27664.457	477	3638.2386	27477.996	644	3676.8725	27189.285	798
3586.0042	27878.235	1482	3614.1123	27661.423	1092	3638.2965	27477.559	642	3677.3061	27186.079	1286
3586.1126	27877.392	1098	3614.5557	27658.030	1456	3640.3885	27461.769	643	3677.4538	27184.987	1456
3586.7385	27872.528	698	3614.7121	27656.833	1152	3643.6233	27437.389	794	3677.5038	27184.618	1153
3586.9848	27870.614	96	3614.7724	27656.372	802	3643.7154	27436.696	555	3677.6277	27183.702	640
3587.2392	27868.637	698	3615.1912	27653.168	1028	3643.7937	27436.106	1149	3678.8603	27174.594	364
3587.4231	27867.209	368	3616.1483	27645.849	1028	3644.5855	27430.146	556	3679.3461	27171.006	554
3588.5264	27858.641	801	3616.3199	27644.537	366	3644.7951	27428.568	1029	3679.9134	27166.818	5
3588.6093	27857.998	698	3616.5652	27642.662	1478	3645.0748	27426.464	696	3680.3779	27163.389	1241
3588.9178	27855.603	695	3617.4263	27636.082	1149	3645.4940	27423.310	866	3680.6575	27161.326	1027
3589.1050	27854.150	96	3617.7861	27633.334	932	3645.8201	27420.857	932	3680.8096	27160.203	1456
3589.4519	27851.458	643	3617.9627	27631.985	476	3647.408	27408.92	189	3680.9392	27159.247	1477
3589.6054	27850.267	867	3618.2990	27629.417	697	3647.4238	27408.801	933	3681.2252	27157.137	1093
3590.0840	27846.555	865	3618.3858	27628.754	1030	3647.8428	27405.653	1028	3681.6440	27154.048	799
3591.3493	27836.744	694	3618.3858	27628.754	643	3647.8428	27405.653	96	3682.1676	27150.187	794
3591.4840	27835.700	1027	3618.5971	27627.141	1148	3649.3029	27394.688	5	3682.2441	27149.623	1287
3592.4702	27828.059	558	3618.7679	27625.837	96	3649.3332	27394.461	979	3683.0548	27143.647	5
3592.6749	27826.473	1028	3618.8126	27625.496	862	3649.5063	27393.161	640	3684.1076	27135.890	641
3592.8919	27824.793	284	3619.7687	27618.199	475	3650.0296	27389.234	801	3684.1376	27135.669	1095

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
3685.9971	27121.980	794	3725.4908	26834.469	975	3760.0497	26587.838	473	3793.5871	26352.792	1196
3686.2580	27120.061	364	3726.8961	26824.351	282	3760.5318	26584.429	283	3793.8716	26350.816	758
3687.0971	27113.889	281	3726.9265	26824.132	794	3761.4085	26578.233	552	3794.3398	26347.565	473
3687.4567	27111.245	94	3727.0924	26822.938	796	3762.2036	26572.616	1195	3795.0022	26342.966	94
3687.6580	27109.765	640	3727.5270	26819.811	1195	3763.5686	26562.979	363	3797.5149	26325.536	1085
3688.4605	27103.867	1150	3727.6190	26819.149	94	3763.7891	26561.423	94	3797.9492	26322.526	547
3689.0768	27099.339	1152	3727.6738	26818.755	550	3764.2081	26558.466	282	3798.5114	26318.630	94
3689.3690	27097.193	800	3727.8092	26817.781	795	3765.5389	26549.080	1086	3799.5475	26311.453	94
3689.4582	27096.538	795	3728.6680	26811.604	552	3765.7001	26547.944	1086	3801.6794	26296.699	758
3690.4547	27089.221	933	3730.3864	26799.254	977	3766.0888	26545.204	551	3801.8086	26295.805	758
3690.7267	27087.225	1318	3730.4604	26798.722	798	3766.6592	26541.184	795	3801.9840	26294.592	1194
3692.6478	27073.133	1152	3730.9463	26795.232	554	3767.1918	26537.432	94	3802.2789	26292.553	1146
3693.0265	27070.357	862	3731.3737	26792.163	550	3768.0270	26531.550	280	3804.0094	26280.592	1192
3693.7774	27064.854	189	3732.3964	26784.822	283	3769.9874	26517.754	796	3804.6111	26276.436	1144
3694.0060	27063.179	801	3733.1914	26779.118	550	3770.3015	26515.545	636	3804.7914	26275.191	861
3695.0515	27055.522	553	3733.3176	26778.213	5	3770.4045	26514.820	473	3805.3426	26271.385	1086
3695.0515	27055.522	978	3734.864	26767.13	94	3771.4916	26507.178	1085	3805.3426	26271.385	1191
3695.5146	27052.132	550	3735.3238	26763.831	797	3771.4916	26507.178	1196	3805.7891	26268.303	1615
3696.0302	27048.358	363	3737.131	26750.88	5	3772.5831	26499.509	1240	3806.2167	26265.352	1243
3697.4255	27038.151	798	3738.3051	26742.487	1090	3773.3586	26494.063	975	3806.6957	26262.047	1085
3697.5360	27037.343	1149	3738.5004	26741.090	1407	3773.6916	26491.725	795	3806.7603	26261.601	549
3698.6029	27029.544	928	3739.1158	26736.689	281	3774.8243	26483.776	280	3807.5369	26256.245	280
3699.1387	27025.629	927	3739.3142	26735.271	282	3775.8541	26476.553	636	3808.2810	26251.115	926
3701.0863	27011.408	794	3739.5231	26733.777	1147	3776.4548	26472.342	281	3808.7286	26248.030	547
3702.0294	27004.527	760	3740.0591	26729.946	976	3777.0666	26468.054	860	3809.0399	26245.885	758
3702.472	27001.30	189	3740.2395	26728.657	1147	3777.3303	26466.206	1192	3809.5643	26242.272	796
3702.4920	27001.153	282	3741.4748	26719.832	1191	3777.4495	26465.371	548	3810.7557	26234.068	1144
3703.5479	26993.455	640	3742.1405	26715.079	1455	3778.3147	26459.311	758	3811.0350	26232.145	636
3703.5842	26993.190	641	3742.5560	26712.113	798	3778.5090	26457.950	1144	3811.8045	26226.850	1191
3703.6909	26992.413	798	3742.6166	26711.681	796	3778.6968	26456.635	280	3811.8910	26226.255	636
3703.8212	26991.463	760	3742.9445	26709.341	1194	3779.2027	26453.094	639	3812.9645	26218.871	95
3704.0140	26990.058	931	3743.3621	26706.361	94	3779.4160	26451.601	547	3813.0580	26218.228	547
3704.3499	26987.611	1090	3743.4682	26705.604	1317	3779.4537	26451.337	1144	3813.6349	26214.262	634
3704.4612	26986.800	639	3743.7765	26703.405	639	3779.5082	26450.956	282	3813.8845	26212.547	1358
3705.5660	26978.754	5	3744.1026	26701.079	1087	3781.1863	26439.217	281	3813.9334	26212.211	472
3705.6979	26977.794	1092	3744.1026	26701.079	794	3781.9399	26433.949	1405	3814.5232	26208.158	95
3707.0444	26967.995	794	3745.4713	26691.322	1146	3782.1173	26432.709	1245	3814.7789	26206.401	1239
3707.3396	26965.848	863	3745.5613	26690.681	5	3782.4490	26430.391	797	3815.8403	26199.112	188
3707.4566	26964.997	553	3745.8995	26688.271	5	3782.6096	26429.269	928	3816.3402	26195.680	280
3707.5616	26964.233	1455	3746.4747	26684.174	280	3785.7063	26407.650	1086	3817.4508	26188.059	1474
3707.8221	26962.339	5	3746.9270	26680.953	795	3785.7865	26407.091	1192	3817.6395	26186.765	1191
3707.9199	26961.628	283	3746.9962	26680.460	797	3785.9483	26405.962	473	3818.6178	26180.056	1242
3708.6025	26956.665	550	3748.209	26671.83	1195	3786.1494	26404.560	757	3819.4932	26174.056	1193
3709.2464	26951.986	94	3748.2622	26671.449	5	3786.1869	26404.298	758	3820.425	26167.67	93
3709.5338	26949.898	862	3748.9041	26666.882	638	3786.6768	26400.882	95	3821.1778	26162.517	1086
3709.6654	26948.942	550	3748.9646	26666.452	795	3787.1633	26397.491	1406	3821.8345	26158.022	547
3711.2227	26937.634	554	3749.4854	26662.748	94	3787.8802	26392.495	94	3824.0746	26142.699	549
3711.4083	26936.287	930	3750.6813	26654.247	550	3789.1761	26383.469	638	3824.3037	26141.133	1085
3715.9116	26903.644	361	3751.0893	26651.348	282	3789.5738	26380.700	551	3824.4437	26140.176	4
3716.4422	26899.803	797	3751.8214	26646.147	636	3789.8192	26378.992	1192	3824.5555	26139.412	636
3718.4065	26885.593	641	3752.4145	26641.936	794	3790.0929	26377.087	95	3825.4027	26133.623	360
3719.935	26874.55	5	3752.8554	26638.806	759	3790.2386	26376.073	549	3825.8812	26130.355	93
3721.1850	26865.519	928	3753.1377	26636.802	473	3790.4122	26374.865	1476	3826.6261	26125.268	472
3721.2724	26864.888	1195	3753.6109	26633.444	280	3790.4954	26374.286	1194	3826.8415	26123.798	634
3721.2724	26864.888	282	3754.5002	26627.136	795	3790.6547	26373.178	796	3827.5716	26118.815	635
3721.3934	26864.014	364	3756.0683	26616.020	281	3790.7540	26372.487	280	3827.8226	26117.102	188
3721.5027	26863.225	798	3756.9374	26609.863	1316	3791.5058	26367.258	548	3828.1507	26114.864	1194
3721.6004	26862.520	863	3757.4546	26606.200	1146	3791.7424	26365.613	1193	3828.5040	26112.454	636
3722.0241	26859.462	640	3757.9665	26602.576	1088	3792.1544	26362.748	636	3829.4518	26105.991	1142
3722.2277	26857.993	927	3758.0261	26602.154	1194	3792.8266	26358.076	282	3829.7642	26103.862	546
3722.5630	26855.574	5	3758.2330	26600.690	94	3793.3534	26354.416	797	3830.7574	26097.094	549
3724.3770	26842.494	361	3759.1548	26594.167	1359	3793.4806	26353.532	796	3830.8619	26096.382	635

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
3833.3082	26079.729	546	3887.0482	25719.174	93	3935.3067	25403.788	754	3976.8612	25138.348	1141
3834.2225	26073.510	93	3888.4162	25710.126	1024	3935.8124	25400.524	754	3976.8612	25138.348	859
3834.4554	26071.926	1142	3888.5135	25709.483	188	3935.8605	25400.214	1023	3977.7410	25132.788	279
3836.3304	26059.184	1144	3888.8216	25707.446	925	3937.3279	25390.748	630	3978.4564	25128.269	755
3836.9154	26055.211	637	3889.9202	25700.186	1023	3940.8776	25367.878	93	3981.7711	25107.351	630
3837.1350	26053.720	547	3890.3958	25697.044	1026	3941.1835	25365.909	1454	3983.9564	25093.579	629
3839.2558	26039.328	974	3890.8405	25694.107	632	3941.2753	25365.318	1021	3984.9340	25087.423	1020
3840.4375	26031.316	93	3891.9264	25686.938	1238	3942.3641	25358.313	859	3985.3159	25085.019	544
3841.0480	26027.179	188	3892.8923	25680.565	634	3942.4399	25357.825	756	3985.3873	25084.570	1140
3842.8963	26014.661	547	3892.9822	25679.972	1026	3943.3407	25352.033	279	3986.1717	25079.634	1138
3842.9887	26014.035	546	3893.3094	25677.814	756	3943.5754	25350.524	1475	3989.8572	25056.468	1281
3843.2568	26012.221	973	3893.3903	25677.280	858	3944.7387	25343.048	755	3990.3733	25053.227	971
3845.1689	25999.286	361	3893.9125	25673.837	471	3944.8893	25342.081	858	3993.6168	25032.880	1610
3845.2153	25998.972	1191	3894.0120	25673.181	1142	3945.1172	25340.617	632	3994.1132	25029.769	970
3845.6950	25995.729	1285	3895.6564	25662.344	4	3946.9949	25328.562	1020	3995.2047	25022.931	1561
3845.9851	25993.768	1193	3897.4487	25650.543	857	3947.3789	25326.098	418	3995.8610	25018.821	1610
3846.2835	25991.752	1433	3897.8899	25647.640	632	3947.5309	25325.123	755	3995.9835	25018.054	631
3846.4094	25990.901	1315	3898.0089	25646.857	93	3948.0973	25321.490	1021	3996.9639	25011.918	1432
3846.7998	25988.263	1144	3899.0289	25640.148	471	3948.2763	25320.342	1020	3997.3922	25009.238	630
3846.7998	25988.263	1192	3899.7074	25635.687	4	3948.7749	25317.145	1083	3997.4838	25008.665	1015
3846.9335	25987.360	472	3900.5150	25630.379	1024	3949.1414	25314.795	1237	3998.0527	25005.106	628
3848.2888	25978.208	549	3902.9457	25614.417	188	3949.9530	25309.594	279	4000.2522	24991.358	1015
3849.9666	25966.887	93	3903.8979	25608.170	857	3950.1379	25308.409	1284	4000.4572	24990.077	855
3850.8179	25961.147	95	3906.4798	25591.245	4	3951.1632	25301.842	1140	4001.6617	24982.555	279
3852.5727	25949.322	280	3906.5323	25590.901	632	3952.6015	25292.635	630	4002.6609	24976.319	1138
3853.4567	25943.369	857	3906.7471	25589.494	1144	3952.6958	25292.032	754	4003.7619	24969.451	1236
3854.3666	25937.245	1026	3907.4653	25584.791	635	3953.1514	25289.117	858	4004.8275	24962.807	1081
3855.3138	25930.873	634	3907.9341	25581.722	632	3953.8576	25284.600	754	4004.9785	24961.866	923
3855.8454	25927.298	1026	3908.8426	25575.776	1614	3954.7127	25279.133	1084	4005.2420	24960.224	186
3856.3716	25923.760	4	3909.6576	25570.445	1024	3955.3413	25275.116	1021	4005.3861	24959.326	360
3859.2125	25904.677	471	3909.8296	25569.320	756	3955.9555	25271.192	925	4005.4822	24958.727	544
3859.911	25899.99	4	3910.8437	25562.690	635	3956.4554	25267.999	1083	4006.1576	24954.519	1023
3861.3402	25890.403	634	3910.9991	25561.674	1021	3956.6768	25266.585	630	4006.3108	24953.565	1082
3863.6906	25874.654	1024	3913.6318	25544.479	358	3957.0184	25264.404	1021	4006.6242	24951.613	925
3863.7413	25874.314	632	3914.2730	25540.295	1026	3960.2792	25243.602	1404	4007.2721	24947.579	629
3864.5936	25868.608	1614	3916.7310	25524.267	1084	3961.1402	25238.115	755	4009.5420	24933.456	1015
3865.5231	25862.388	93	3917.1810	25521.335	93	3962.3520	25230.397	1025	4009.7128	24932.394	279
3867.0195	25852.380	1615	3918.3153	25513.947	361	3963.1005	25225.632	1021	4010.1763	24929.512	1403
3867.2159	25851.067	925	3918.4154	25513.295	756	3963.4320	25223.522	1137	4010.7481	24925.958	544
3867.9205	25846.358	546	3918.6417	25511.822	858	3964.5153	25216.630	755	4011.4075	24921.861	543
3868.2323	25844.275	858	3919.0655	25509.063	858	3965.5088	25210.312	1024	4011.7113	24919.974	418
3869.5583	25835.419	635	3920.2581	25501.303	4	3965.9152	25207.729	1613	4012.1490	24917.255	1081
3869.6080	25835.087	635	3920.8370	25497.538	1026	3966.0617	25206.798	188	4013.6395	24908.002	1016
3871.7480	25820.808	857	3921.2724	25494.707	545	3966.4995	25204.016	1021	4013.7818	24907.119	922
3872.5012	25815.786	93	3922.9118	25484.053	4	3966.8100	25202.043	1139	4013.8248	24906.852	923
3872.9212	25812.986	635	3925.2005	25469.194	1026	3967.4206	25198.164	1083	4014.2652	24904.120	855
3873.7606	25807.393	471	3925.6438	25466.318	756	3967.9614	25194.730	1020	4014.5308	24902.472	972
3874.0535	25805.442	358	3925.9413	25464.388	756	3969.2572	25186.505	186	4014.8781	24900.318	1453
3876.0400	25792.217	95	3926.0132	25463.922	1021	3969.6276	25184.155	1136	4015.6059	24895.805	1598
3876.6703	25788.023	359	3927.7497	25452.664	1614	3970.2608	25180.139	1282	4016.4194	24890.763	1019
3878.0182	25779.060	93	3927.9199	25451.561	4	3970.3891	25179.325	925	4017.0835	24886.648	631
3878.1819	25777.972	1024	3927.9199	25451.561	755	3971.3227	25173.406	629	4017.1485	24886.245	971
3878.5733	25775.371	4	3928.0829	25450.505	1024	3972.9155	25163.314	1314	4017.4619	24884.304	1611
3878.6709	25774.722	471	3929.1164	25443.811	632	3973.6493	25158.667	1283	4018.2675	24879.315	1019
3878.7259	25774.357	1143	3929.2083	25443.216	1139	3974.2564	25154.824	1564	4019.0420	24874.521	544
3881.9736	25752.794	1278	3930.2967	25436.170	4	3974.3807	25154.037	1023	4020.4836	24865.602	1404
3883.2800	25744.131	1142	3931.1172	25430.861	1024	3974.7576	25151.652	279	4021.6028	24858.682	358
3884.3587	25736.982	633	3932.2443	25423.572	1338	3975.2055	25148.818	418	4021.8665	24857.052	630
3885.1456	25731.769	858	3932.6273	25421.096	632	3975.8412	25144.797	1280	4022.2127	24854.913	751
3885.5106	25729.352	361	3933.5997	25414.812	1021	3976.3856	25141.355	924	4022.7358	24851.681	1015
3885.9205	25726.638	1434	3933.5997	25414.812	1565	3976.5463	25140.339	1138	4022.7358	24851.681	1137
3886.2823	25724.243	4	3933.5997	25414.812	925	3976.6132	25139.916	1237	4024.0963	24843.279	629

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
4024.7250	24839.398	1019	4071.5201	24553.918	543	4114.9376	24294.850	1187	4161.0769	24025.467	1181
4029.6293	24809.168	1015	4071.7380	24552.604	186	4115.1363	24293.677	1186	4161.4844	24023.114	852
4030.1849	24805.748	279	4072.5024	24547.996	1189	4117.8528	24277.651	1190	4163.6763	24010.468	627
4030.4885	24803.879	1019	4073.7623	24540.404	1017	4118.5450	24273.571	1313	4164.7818	24004.095	850
4030.8904	24801.406	1431	4074.7858	24534.240	969	4118.8868	24271.557	1018	4165.3580	24000.774	1398
4031.2402	24799.254	923	4076.2180	24525.620	923	4120.2065	24263.783	853	4165.4177	24000.430	1357
4031.7280	24796.254	856	4076.4898	24523.985	543	4121.8026	24254.387	749	4167.8587	23986.374	1080
4031.9607	24794.823	1138	4076.6291	24523.147	1017	4122.5155	24250.193	749	4167.9552	23985.819	1429
4032.4559	24791.778	1613	4076.8000	24522.119	1016	4123.7283	24243.061	852	4168.6147	23982.024	1181
4032.6275	24790.723	187	4076.8811	24521.631	1018	4123.7661	24242.839	542	4168.9416	23980.144	1186
4033.1863	24787.288	543	4078.3539	24512.776	542	4124.4873	24238.600	1399	4169.7562	23975.459	1185
4035.5943	24772.498	1599	4079.1681	24507.883	1190	4125.6175	24231.960	1596	4170.9018	23968.874	921
4036.3665	24767.759	631	4079.8380	24503.859	753	4125.8804	24230.416	748	4171.0407	23968.076	1657
4038.7899	24752.898	1280	4080.2092	24501.630	1017	4126.1827	24228.641	1187	4171.6908	23964.341	1430
4039.9379	24745.864	628	4080.8769	24497.621	1016	4126.8545	24224.697	748	4171.8993	23963.143	1135
4040.6381	24741.576	1138	4081.2676	24495.276	1561	4127.6078	24220.276	750	4172.1222	23961.863	1134
4041.2717	24737.697	1082	4082.1079	24490.234	1189	4127.7843	24219.240	1017	4172.5735	23959.271	1079
4041.2717	24737.697	1137	4082.4246	24488.334	1402	4127.8128	24219.073	1235	4172.6408	23958.885	1181
4041.6492	24735.387	1610	4083.5492	24481.590	357	4129.4611	24209.406	1187	4172.7448	23958.288	92
4043.885	24721.71	628	4083.7632	24480.307	1188	4130.0367	24206.032	187	4172.9620	23957.041	1562
4043.8966	24721.640	1016	4084.4915	24475.942	1189	4130.0367	24206.032	923	4173.1816	23955.780	1189
4043.9770	24721.149	1018	4085.0041	24472.871	752	4131.9354	24194.909	1187	4173.3151	23955.014	747
4044.4909	24718.008	1562	4085.2483	24471.408	628	4131.9718	24194.696	1017	4173.4719	23954.114	920
4044.5447	24717.679	1081	4085.3031	24471.080	1018	4132.0582	24194.190	186	4173.9207	23951.538	92
4044.6092	24717.285	753	4085.9842	24467.001	1562	4132.5329	24191.411	1596	4174.4019	23948.777	1311
4045.1119	24714.213	1612	4087.0939	24460.358	1186	4132.8992	24189.267	750	4174.9131	23945.845	92
4045.5939	24711.269	1018	4088.2045	24453.713	1682	4133.8557	24183.670	1189	4175.6361	23941.699	748
4045.8124	24709.934	186	4088.5568	24451.606	1402	4134.3363	24180.859	3	4175.8986	23940.194	1186
4046.0623	24708.408	1016	4089.2169	24447.659	852	4134.4207	24180.365	1188	4176.5659	23936.369	1187
4047.3040	24700.828	357	4090.0726	24442.544	1190	4134.4207	24180.365	921	4176.8645	23934.658	1597
4049.3270	24688.488	543	4090.9535	24437.281	1187	4134.6776	24178.863	750	4177.0858	23933.390	1182
4050.6742	24680.277	1563	4091.5531	24433.700	750	4136.5213	24168.086	1186	4177.5939	23930.479	91
4051.9053	24672.778	1190	4092.2770	24429.378	1398	4136.9977	24165.303	1234	4180.4103	23914.357	627
4052.0133	24672.121	1081	4092.5060	24428.011	1399	4139.9273	24148.203	91	4181.1868	23909.916	1397
4052.2954	24670.403	1190	4095.9707	24407.348	542	4140.4024	24145.432	1187	4181.5500	23907.839	1275
4052.4406	24669.519	1022	4096.1072	24406.535	1401	4141.8633	24136.916	852	4181.7547	23906.669	748
4052.6531	24668.226	969	4096.2102	24405.921	91	4142.5889	24132.688	1596	4182.3826	23903.080	919
4052.7227	24667.802	1016	4096.6903	24403.061	1400	4143.4146	24127.879	968	4182.7577	23900.936	1186
4054.1771	24658.953	1016	4096.9500	24401.514	470	4143.4972	24127.398	1188	4183.0061	23899.517	1188
4054.8056	24655.131	1189	4097.0172	24401.114	1190	4143.8680	24125.239	186	4184.8918	23888.748	747
4054.8669	24654.758	1189	4097.0834	24400.720	1017	4145.1995	24117.490	627	4187.0390	23876.498	417
4055.0355	24653.733	543	4098.1758	24394.216	1017	4146.0642	24112.460	852	4187.5870	23873.373	1186
4056.3449	24645.775	1396	4100.3470	24381.299	1596	4147.3420	24105.031	1185	4187.7954	23872.185	417
4057.3435	24639.709	629	4100.7379	24378.975	91	4147.6690	24103.131	185	4188.3271	23869.155	1595
4058.2170	24634.406	1017	4101.2611	24375.865	1189	4149.3650	24093.279	1186	4188.7316	23866.850	1656
4058.7539	24631.147	358	4101.6523	24373.540	1188	4149.7610	24090.980	3	4189.5566	23862.150	1427
4059.7135	24625.325	1279	4101.6849	24373.346	358	4150.2491	24088.147	1187	4191.4307	23851.481	417
4061.0965	24616.939	1610	4103.6131	24361.894	1135	4150.4476	24086.995	1233	4191.6765	23850.082	747
4061.9546	24611.739	1561	4104.1136	24358.923	1017	4151.7607	24079.377	1593	4193.6042	23839.119	469
4062.4409	24608.793	753	4104.1539	24358.684	749	4151.9448	24078.309	1277	4194.4931	23834.067	627
4063.2757	24603.737	1189	4104.4599	24356.868	852	4152.1692	24077.008	91	4195.3291	23829.318	1185
4063.4169	24602.882	1610	4104.9407	24354.015	1186	4153.3871	24069.948	469	4195.6179	23827.678	920
4063.5942	24601.809	186	4106.2587	24346.198	542	4153.8997	24066.978	1187	4196.2083	23824.325	1185
4064.4493	24596.633	187	4106.4229	24345.225	1188	4154.0985	24065.826	1186	4196.5311	23822.493	850
4065.3812	24590.995	1189	4107.4883	24338.910	748	4154.4987	24063.508	747	4196.6715	23821.696	469
4066.5852	24583.714	854	4108.1330	24335.091	1018	4154.8055	24061.731	1186	4197.0971	23819.280	91
4066.9742	24581.363	752	4109.0561	24329.624	1017	4156.4538	24052.189	1185	4198.2469	23812.757	1185
4067.2712	24579.568	542	4109.8017	24325.210	750	4156.6714	24050.930	851	4198.3043	23812.431	417
4067.4872	24578.263	852	4112.3185	24310.323	1187	4156.7988	24050.193	748	4198.5281	23811.162	850
4067.9777	24575.299	1018	4112.9119	24306.816	1562	4157.7801	24044.517	1187	4198.6341	23810.561	1185
4069.0678	24568.716	1016	4112.9589	24306.538	1596	4158.7924	24038.664	1187	4199.0952	23807.946	967
4070.7707	24558.438	1017	4114.4450	24297.759	750	4160.5521	24028.497	851	4199.3612	23806.438	848

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
4199.9835	23802.911	3	4243.8162	23557.065	1473	4291.4637	23295.519	3	4369.7718	22878.061	964
4200.7789	23798.404	187	4245.2572	23549.069	746	4292.1178	23291.969	277	4370.9810	22871.732	276
4200.9242	23797.581	1181	4245.3444	23548.585	1183	4292.1631	23291.723	540	4372.9817	22861.268	916
4202.0292	23791.323	185	4246.0128	23544.878	1134	4292.2844	23291.065	277	4373.5607	22858.242	845
4202.3300	23789.620	540	4246.0850	23544.478	1397	4293.7983	23282.853	469	4374.4892	22853.390	1133
4202.7530	23787.226	966	4247.3061	23537.709	468	4294.0377	23281.555	539	4375.4768	22848.232	1309
4203.5678	23782.615	92	4247.4255	23537.047	1185	4294.1248	23281.083	184	4375.9301	22845.865	2
4203.9383	23780.519	1356	4248.2240	23532.623	921	4298.0364	23259.895	965	4375.9862	22845.572	963
4203.9848	23780.256	747	4248.4026	23531.634	92	4299.2349	23253.411	1077	4376.7742	22841.459	1395
4205.5385	23771.471	1181	4249.5797	23525.116	540	4299.2349	23253.411	417	4376.7742	22841.459	915
4206.6967	23764.926	3	4250.1195	23522.128	417	4299.4670	23252.156	1133	4377.7916	22836.151	1132
4207.1271	23762.495	746	4250.1913	23521.731	467	4299.6286	23251.282	848	4382.7680	22810.222	1310
4208.6040	23754.156	1181	4250.7869	23518.435	185	4300.2066	23248.157	1451	4383.5450	22806.179	184
4209.8294	23747.242	1655	4250.8918	23517.855	920	4302.1858	23237.462	965	4384.6722	22800.316	917
4210.3436	23744.342	417	4251.4977	23514.503	1428	4304.5408	23224.749	846	4385.2496	22797.314	847
4210.3833	23744.118	921	4251.6417	23513.707	469	4305.1314	23221.563	625	4387.8912	22783.590	918
4213.6474	23725.725	747	4253.9303	23501.057	1395	4305.2070	23221.155	1272	4388.4068	22780.913	1337
4215.4233	23715.730	851	4254.9453	23495.451	851	4305.4505	23219.842	918	4389.2449	22776.563	2
4215.4777	23715.424	851	4255.5004	23492.386	848	4306.5787	23213.759	1183	4390.4480	22770.322	845
4215.9678	23712.667	626	4256.2055	23488.494	1182	4307.7046	23207.692	1076	4390.7527	22768.742	1592
4216.1838	23711.452	3	4256.3097	23487.919	468	4307.9023	23206.627	185	4390.9505	22767.716	846
4217.5456	23703.796	1185	4256.8071	23485.175	1594	4308.4949	23203.435	468	4391.8633	22762.984	1471
4219.3604	23693.601	1312	4258.3158	23476.854	3	4309.0307	23200.550	1355	4392.5797	22759.272	1449
4219.4144	23693.298	851	4258.6112	23475.226	745	4309.3745	23198.699	846	4393.0240	22756.970	916
4220.0495	23689.732	1473	4258.9517	23473.349	851	4309.4538	23198.272	920	4393.0900	22756.628	1590
4220.3417	23688.092	921	4259.3358	23471.232	848	4310.3741	23193.319	1473	4395.2741	22745.320	1335
4222.2131	23677.593	417	4259.9992	23467.577	1181	4315.0846	23168.001	278	4395.4973	22744.165	1471
4223.2332	23671.874	469	4260.0806	23467.129	1182	4317.0475	23157.467	1274	4401.2899	22714.232	1335
4223.7289	23669.096	849	4260.1352	23466.828	919	4318.8010	23148.065	540	4401.4429	22713.442	744
4224.1717	23666.615	1181	4260.4744	23464.960	417	4320.4829	23139.054	1183	4403.1749	22704.508	1710
4224.5128	23664.704	1181	4260.7289	23463.558	745	4324.9486	23115.162	277	4404.7504	22696.387	184
4225.4543	23659.431	1185	4264.2034	23444.440	1184	4325.1750	23113.952	849	4405.0190	22695.003	2
4225.7129	23657.983	1594	4265.2361	23438.764	1473	4325.762	23110.82	2	4407.2329	22683.603	1334
4225.9557	23656.624	966	4265.2681	23438.588	1472	4325.7619	23110.816	185	4407.6571	22681.420	917
4226.3428	23654.457	469	4266.9645	23429.270	626	4325.9400	23109.865	1078	4407.7092	22681.152	275
4226.4240	23654.003	746	4267.3894	23426.937	1594	4326.7533	23105.521	845	4408.4135	22677.528	275
4227.4266	23648.393	1185	4267.8265	23424.538	921	4327.0956	23103.693	1273	4409.1195	22673.897	1132
4228.7184	23641.169	1182	4268.7488	23419.477	1134	4327.9034	23099.381	1077	4414.9309	22644.052	1469
4229.4040	23637.337	541	4271.1538	23406.290	417	4330.9519	23083.122	1077	4415.1225	22643.069	184
4229.5102	23636.743	1134	4271.7605	23402.966	185	4337.0463	23050.686	184	4418.4196	22626.173	844
4229.7516	23635.394	184	4271.9423	23401.970	467	4337.5171	23048.184	539	4422.5681	22604.949	744
4232.7263	23618.784	3	4273.8685	23391.423	920	4338.2478	23044.302	277	4423.1415	22602.019	844
4233.6028	23613.894	417	4275.6986	23381.411	540	4340.4899	23032.399	625	4423.8408	22598.446	1337
4235.3873	23603.945	1182	4276.6761	23376.067	1452	4341.8134	23025.378	1270	4424.0683	22597.284	1394
4235.8177	23601.547	468	4278.2314	23367.569	1183	4343.2164	23017.940	1560	4424.1879	22596.673	1271
4235.9370	23600.882	417	4279.4887	23360.704	1472	4343.2712	23017.650	1132	4425.6563	22589.176	1308
4237.0742	23594.548	92	4279.8700	23358.623	745	4343.6975	23015.391	963	4425.7521	22588.687	1014
4237.6708	23591.226	850	4280.5396	23354.969	1078	4343.8692	23014.481	1269	4427.298	22580.80	1335
4238.0238	23589.261	1181	4282.4029	23344.807	278	4344.4995	23011.142	1337	4427.3099	22580.739	2
4238.6084	23586.008	1355	4284.4054	23333.896	1655	4344.8902	23009.073	1560	4428.5670	22574.329	1449
4238.8100	23584.886	1185	4284.4054	23333.896	849	4346.5526	23000.273	1078	4429.1869	22571.170	1468
4239.3613	23581.819	1398	4285.4420	23328.252	1077	4347.2336	22996.670	2	4430.1891	22566.064	914
4239.7324	23579.755	848	4285.8225	23326.181	1395	4347.8326	22993.502	1335	4430.6140	22563.900	275
4239.8477	23579.114	626	4286.4342	23322.852	846	4348.9366	22987.665	846	4432.5678	22553.954	1309
4239.9424	23578.587	919	4286.8645	23320.511	1183	4351.5439	22973.892	845	4433.2187	22550.643	1337
4240.3708	23576.205	1276	4286.9837	23319.863	1452	4352.7347	22967.607	278	4433.7824	22547.776	1332
4240.6940	23574.408	848	4287.9385	23314.670	1183	4358.4991	22937.231	844	4435.1489	22540.829	2
4241.1143	23572.072	745	4288.1458	23313.543	626	4358.6842	22936.257	917	4436.9206	22531.828	962
4242.5960	23563.840	626	4288.9560	23309.139	539	4360.8032	22925.112	1394	4438.3433	22524.606	1335
4242.7294	23563.099	1134	4289.9146	23303.931	1183	4365.8967	22898.367	847	4439.6341	22518.057	1706
4243.3685	23559.550	1397	4290.3789	23301.409	848	4367.5785	22889.550	846	4439.6341	22518.057	961
4243.5411	23558.592	1426	4290.8647	23298.771	745	4367.9036	22887.846	184	4439.8808	22516.806	356

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
4440.4793	22513.771	1336	4490.8107	22261.449	1449	4566.8668	21890.715	1652	4625.0453	21615.356	1013
4440.8239	22512.024	1471	4492.6783	22252.195	1445	4566.9885	21890.132	1231	4627.5467	21603.672	1072
4440.9689	22511.289	1132	4493.3707	22248.766	1308	4568.6026	21882.398	1470	4630.1203	21591.664	355
4441.5456	22508.366	1468	4494.0555	22245.376	1449	4568.7632	21881.629	1013	4632.8204	21579.080	1327
4442.3390	22504.346	275	4494.4648	22243.350	843	4568.8392	21881.265	1390	4632.9117	21578.655	182
4442.8316	22501.851	276	4494.5632	22242.863	275	4569.0555	21880.229	1072	4633.7558	21574.724	842
4443.1942	22500.015	744	4495.5680	22237.892	1334	4571.4378	21868.827	693	4634.7125	21570.271	1740
4443.1942	22500.015	917	4495.9531	22235.987	1332	4574.2162	21855.544	1013	4635.6170	21566.062	693
4445.4715	22488.489	2	4498.5332	22223.234	1469	4574.7179	21853.147	355	4635.8462	21564.996	743
4446.8321	22481.608	1335	4499.1365	22220.254	1708	4575.7802	21848.074	1072	4636.6707	21561.161	959
4446.8958	22481.286	1075	4500.6301	22212.880	1740	4576.5175	21844.554	1390	4637.5034	21557.290	1013
4447.1304	22480.100	276	4502.5909	22203.207	1308	4579.0667	21832.393	1129	4638.0098	21554.936	1329
4447.7173	22477.134	275	4504.8306	22192.168	1014	4579.3264	21831.155	693	4639.6602	21547.269	1702
4447.8057	22476.687	1588	4507.2132	22180.437	917	4580.4596	21825.754	741	4643.4634	21529.621	1327
4450.3156	22464.011	918	4509.7342	22168.038	1589	4580.5774	21825.193	1334	4647.1791	21512.407	1741
4450.7669	22461.733	1448	4510.8205	22162.700	1330	4581.1918	21822.266	1740	4647.4342	21511.226	841
4452.6095	22452.438	1445	4514.1839	22146.187	960	4581.5080	21820.760	1014	4648.9769	21504.088	1072
4452.7989	22451.483	538	4514.4163	22145.047	1707	4582.9397	21813.943	741	4649.8165	21500.205	1070
4454.3810	22443.509	744	4514.4999	22144.637	1468	4583.7208	21810.226	914	4653.4904	21483.231	90
4454.6712	22442.047	1393	4515.1667	22141.367	693	4584.7164	21805.490	1327	4654.4983	21478.579	182
4455.0273	22440.253	1450	4517.5245	22129.811	914	4584.8192	21805.001	1329	4654.6050	21478.087	1328
4456.3257	22433.715	962	4518.4321	22125.366	1072	4585.3399	21802.525	1704	4654.6286	21477.978	1013
4456.6302	22432.182	1449	4518.5771	22124.656	276	4586.2313	21798.287	1652	4656.4573	21469.543	1654
4458.0802	22424.886	1471	4523.3987	22101.073	1336	4586.9923	21794.671	842	4657.5848	21464.346	740
4459.1176	22419.669	275	4525.1368	22092.584	1333	4587.1276	21794.028	1307	4658.2947	21461.075	1071
4459.3527	22418.487	1588	4525.8635	22089.037	693	4587.7204	21791.212	1447	4660.4315	21451.235	1681
4461.1967	22409.221	915	4526.3989	22086.424	1445	4590.7897	21776.643	1679	4661.3197	21447.148	742
4461.3729	22408.336	1232	4526.5608	22085.634	915	4592.6511	21767.817	182	4661.5344	21446.160	1739
4461.6528	22406.930	2	4527.7827	22079.674	1131	4593.5252	21763.675	1447	4661.8768	21444.585	1705
4461.9698	22405.338	1332	4528.4790	22076.279	1703	4595.2080	21755.705	1352	4661.9703	21444.155	841
4461.9698	22405.338	1393	4528.6142	22075.620	275	4595.3586	21754.992	1073	4663.1782	21438.600	1267
4462.1955	22404.205	1331	4528.7570	22074.924	1074	4596.0605	21751.670	1327	4664.7183	21431.522	742
4463.1326	22399.501	915	4528.8210	22074.612	912	4596.4155	21749.990	1330	4666.1118	21425.122	1651
4463.4072	22398.123	1591	4529.5511	22071.054	1468	4596.5748	21749.236	1072	4667.4531	21418.965	1329
4464.6875	22391.700	1014	4531.1482	22063.275	182	4597.2512	21746.036	1680	4668.0616	21416.173	1333
4464.7665	22391.304	914	4531.6302	22060.928	1014	4597.3802	21745.426	1737	4668.1344	21415.839	1013
4466.5518	22382.354	744	4531.6302	22060.928	1353	4597.7454	21743.699	1708	4669.1711	21411.084	1328
4466.9386	22380.416	1471	4533.9567	22049.608	842	4597.8714	21743.103	1675	4671.4147	21400.801	1709
4469.3756	22368.213	1337	4536.4866	22037.312	1389	4598.1171	21741.941	1013	4672.8305	21394.317	183
4471.6772	22356.700	2	4537.6734	22031.548	1073	4598.3669	21740.760	1446	4673.1636	21392.792	1327
4472.7113	22351.531	1392	4538.8366	22025.902	1445	4598.7400	21738.996	1326	4673.2700	21392.305	1329
4476.0186	22335.016	744	4540.6722	22016.998	843	4599.7415	21734.263	1072	4674.6478	21386.000	183
4476.0755	22334.732	1337	4541.3141	22013.886	1129	4599.8425	21733.786	1650	4675.0961	21383.949	1558
4478.0182	22325.043	276	4541.9416	22010.845	1072	4600.9340	21728.630	1071	4677.5896	21372.550	1559
4479.6028	22317.146	1354	4542.4121	22008.565	1390	4602.0010	21723.592	182	4678.8458	21366.812	1328
4479.9629	22315.352	1450	4542.6986	22007.177	1334	4602.9410	21719.156	182	4679.2247	21365.082	1126
4480.1366	22314.487	961	4547.0169	21986.277	182	4603.3424	21717.262	741	4679.2247	21365.082	1737
4480.2717	22313.814	1330	4547.8474	21982.262	1268	4603.9489	21714.401	842	4680.2948	21360.197	182
4481.6093	22307.154	1334	4549.4669	21974.437	1448	4604.5575	21711.531	1681	4680.4672	21359.410	740
4482.1699	22304.364	2	4551.6470	21963.912	1448	4604.8515	21710.145	1352	4680.5503	21359.031	1777
4482.2527	22303.952	275	4554.4512	21950.389	693	4605.5878	21706.674	1652	4682.1111	21351.911	1737
4482.7393	22301.531	1335	4556.1259	21942.321	1327	4607.6469	21696.974	1013	4682.5605	21349.862	793
4483.7770	22296.370	1391	4556.9250	21938.473	1130	4607.6469	21696.974	1445	4683.5597	21345.307	740
4484.2198	22294.168	1335	4558.1054	21932.792	1390	4611.0638	21680.896	1131	4684.5971	21340.580	1654
4485.6756	22286.933	1337	4560.0881	21923.256	1330	4611.1849	21680.327	693	4685.0246	21338.633	742
4485.9725	22285.458	1332	4561.4143	21916.882	1650	4611.2789	21679.885	1333	4687.3030	21328.261	90
4487.7364	22276.699	1073	4564.6986	21901.113	1330	4613.2027	21670.844	1013	4687.3865	21327.881	741
4488.1331	22274.730	1326	4564.8214	21900.524	914	4613.9036	21667.552	1742	4687.6709	21326.587	742
4488.9069	22270.890	1334	4565.3102	21898.179	1131	4614.2054	21666.135	1130	4688.1761	21324.289	1739
4489.7391	22266.762	2	4565.4115	21897.693	1650	4615.5626	21659.764	1777	4690.1380	21315.369	1327
4490.0840	22265.052	913	4565.6619	21896.492	1013	4618.7577	21644.781	841	4690.3697	21314.316	1068
4490.7601	22261.700	1450	4566.5145	21892.404	1131	4619.2880	21642.296	1328	4690.3697	21314.316	90

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
4691.4117	21309.582	841	4773.9722	20941.062	1529	4863.7793	20554.402	793	4933.1908	20265.199	1557
4694.8593	21293.934	1676	4776.0673	20931.876	1128	4868.3734	20535.006	181	4933.2948	20264.772	1123
4694.9190	21293.663	1529	4776.3772	20930.518	1738	4868.4303	20534.766	1701	4933.3413	20264.581	1552
4700.1579	21269.929	1650	4776.4817	20930.060	1533	4869.4639	20530.407	1264	4933.8730	20262.397	1444
4701.0447	21265.917	1327	4779.4394	20917.108	1230	4870.0368	20527.992	1466	4934.0053	20261.854	1555
4701.0447	21265.917	416	4785.9566	20888.625	1534	4871.3182	20522.592	692	4934.0839	20261.531	1066
4702.6010	21258.879	1650	4786.8070	20884.914	911	4871.9281	20520.023	1123	4937.2988	20248.338	1527
4707.9125	21257.471	1068	4787.8269	20880.465	793	4872.1378	20519.140	692	4938.1739	20244.750	1443
4704.9481	21248.274	1328	4788.7569	20876.410	1067	4872.9072	20515.900	1586	4938.8138	20242.127	692
4705.4570	21245.976	1265	4789.6508	20872.514	1266	4873.2106	20514.623	1467	4939.2391	20240.384	1552
4706.2992	21242.174	1388	4790.7431	20867.755	1124	4873.7513	20512.347	1125	4939.2391	20240.384	1557
4707.2745	21237.773	1013	4791.2462	20865.564	1125	4874.3537	20509.812	911	4939.6867	20238.550	89
4707.4877	21236.811	740	4792.5327	20859.963	1531	4875.0302	20506.966	1796	4942.4592	20227.197	1586
4708.9685	21230.133	1387	4793.9619	20853.744	958	4875.8776	20503.402	1179	4942.5905	20226.660	1586
4709.0881	21229.594	1328	4797.0379	20840.372	1653	4876.1879	20502.097	1122	4945.6374	20214.199	1608
4710.2833	21224.207	841	4798.2649	20835.043	1535	4877.6064	20496.135	793	4946.3881	20211.131	1179
4712.1057	21215.999	911	4798.7313	20833.018	181	4878.2112	20493.594	692	4950.1060	20195.951	1179
4712.3569	21214.868	416	4799.4061	20830.089	1386	4880.5274	20483.868	1525	4957.2986	20166.649	692
4714.0703	21207.157	1738	4800.1288	20826.953	793	4881.7178	20478.873	1067	4957.5968	20165.436	692
4714.1179	21206.943	1071	4800.5540	20825.108	1069	4882.1434	20477.088	1179	4957.6796	20165.099	1553
4714.1915	21206.612	1071	4800.6490	20824.696	1535	4885.4306	20463.310	1443	4959.1978	20158.926	1799
4714.3591	21205.858	1737	4802.8797	20815.024	1386	4886.3318	20459.536	1553	4961.9140	20147.891	1351
4716.8390	21194.709	1127	4802.8797	20815.024	1425	4887.1939	20455.927	1552	4962.5719	20145.220	1586
4716.8390	21194.709	1653	4804.5193	20807.921	1306	4887.3657	20455.208	1529	4965.7804	20132.204	739
4721.0006	21176.026	841	4807.7088	20794.117	1180	4888.2623	20451.456	1583	4966.0889	20130.953	1179
4725.9344	21153.919	1635	4808.0579	20792.607	1068	4888.6369	20449.889	1553	4966.2895	20130.140	1467
4726.1370	21153.012	793	4808.1483	20792.216	1125	4889.0015	20448.364	274	4967.8974	20123.625	1554
4727.2636	21147.971	1653	4808.6800	20789.917	1795	4889.1021	20447.943	1466	4968.3926	20121.619	1582
4727.3946	21147.385	1328	4809.1380	20787.937	1424	4890.7551	20441.032	692	4968.6979	20120.383	1385
4728.1640	21143.944	1523	4809.9384	20784.478	1305	4891.0483	20439.807	1528	4969.9176	20115.445	1553
4728.5457	21142.237	1329	4811.0284	20779.769	911	4891.1445	20439.405	1526	4970.4958	20113.105	1383
4729.0192	21140.120	1531	4813.1128	20770.770	1123	4891.4924	20437.951	692	4970.6461	20112.497	1466
4729.6766	21137.182	1180	4814.3715	20765.340	1530	4892.8589	20432.243	1557	4973.1019	20102.565	1465
4731.0410	21131.086	1536	4815.2350	20761.616	1230	4896.4385	20417.306	1465	4975.4122	20093.231	1065
4733.5917	21119.700	181	4817.7781	20750.657	274	4900.8228	20399.041	1798	4977.6487	20084.203	1466
4734.0980	21117.441	1636	4824.1659	20723.181	1386	4902.1638	20393.461	1125	4978.1119	20082.334	1467
4735.8439	21109.656	1535	4831.2019	20693.001	1264	4903.3102	20388.693	692	4978.6033	20080.352	1443
4736.7734	21105.514	1013	4832.7276	20686.468	1386	4905.1328	20381.117	1467	4978.6918	20079.995	1525
4737.3734	21102.841	1737	4834.5069	20678.855	355	4905.2161	20380.771	1067	4979.5861	20076.389	1383
4737.5941	21101.858	840	4835.8679	20673.035	1555	4907.7318	20370.324	1179	4980.2834	20073.578	1582
4737.6354	21101.674	1069	4837.8803	20664.436	1677	4908.0301	20369.086	1552	4980.5394	20072.546	1533
4740.3401	21089.634	841	4838.0847	20663.563	1123	4908.5988	20366.726	355	4982.4999	20064.648	1554
4741.0696	21086.389	1180	4838.5118	20661.739	1179	4909.3835	20363.471	1466	4983.2507	20061.625	1554
4741.5297	21084.343	740	4839.5445	20657.330	1067	4910.0169	20360.844	1179	4983.3412	20061.261	1735
4742.9381	21078.082	1559	4839.7682	20656.375	1738	4910.3258	20359.563	1555	4983.8529	20059.201	1553
4743.1978	21076.928	1678	4840.3217	20654.013	1555	4910.5648	20358.572	1555	4985.2529	20053.568	1465
4744.9428	21069.177	1068	4840.8962	20651.562	1557	4911.5294	20354.574	1587	4985.5473	20052.384	692
4745.1286	21068.352	274	4841.7850	20647.771	1557	4911.7794	20353.538	1465	4985.9842	20050.627	1584
4745.8001	21065.371	1328	4842.7140	20643.810	1587	4912.4984	20350.559	1532	4986.2226	20049.668	1557
4749.9477	21046.977	1738	4842.7884	20643.493	1556	4913.1430	20347.889	1699	4986.9034	20046.931	1582
4751.0843	21041.942	1533	4843.1438	20641.978	1179	4917.2300	20330.977	1553	4988.9501	20038.707	1553
4754.0393	21028.863	1797	4844.0138	20638.271	1263	4918.0125	20327.742	1557	4991.2683	20029.400	1552
4757.5780	21013.222	1127	4845.6482	20631.310	1386	4918.9539	20323.852	1552	4991.8004	20027.265	739
4766.7868	20972.628	1777	4848.8836	20617.544	354	4918.9940	20323.686	692	4991.8675	20026.996	1584
4766.8659	20972.280	1180	4849.6688	20614.206	1305	4920.5031	20317.453	692	4992.7854	20023.314	1605
4768.3203	20965.883	1328	4855.6732	20588.715	1179	4924.2984	20301.794	1796	4993.6805	20019.725	1606
4768.3965	20965.548	793	4858.2439	20577.821	1556	4924.2984	20301.794	1839	4993.7514	20019.441	1530
4768.6988	20964.219	1533	4859.1218	20574.103	1555	4924.7695	20299.852	354	4994.1295	20017.925	89
4771.6965	20951.049	274	4859.7414	20571.480	692	4925.2834	20297.734	1552	4995.4097	20012.795	1608
4772.8030	20946.192	181	4860.9785	20566.245	1180	4927.4182	20288.940	1304	4997.9598	20002.584	1736
4772.8303	20946.072	911	4862.5969	20559.400	1556	4927.4901	20288.644	1733	4999.1125	19997.972	1532
4773.1459	20944.687	1523	4863.6437	20554.975	1179	4930.3154	20277.018	1466	5000.2107	19993.580	1736

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
5001.8636	19986.973	1442	5065.0185	19737.762	1584	5150.1971	19411.325	1300	5240.3553	19077.365	1063
5002.5809	19984.107	1525	5065.1927	19737.083	1383	5150.8395	19408.904	89	5242.4911	19069.593	1350
5002.5809	19984.107	1796	5067.1496	19729.461	1582	5151.9109	19404.868	89	5243.7769	19064.917	1579
5002.7927	19983.261	1179	5068.7658	19723.170	792	5159.0576	19377.987	1581	5247.0504	19053.023	1
5004.0443	19978.263	1607	5069.4233	19720.612	1631	5161.2977	19369.577	1607	5249.1054	19045.564	1674
5004.3414	19977.077	1121	5071.5113	19712.493	1732	5162.2729	19365.918	1579	5250.2089	19041.561	1
5005.7123	19971.606	1465	5072.0784	19710.289	1579	5164.5506	19357.377	1674	5250.6460	19039.976	273
5006.1191	19969.983	692	5072.6721	19707.982	1585	5164.9106	19356.028	1522	5251.9659	19035.191	1300
5007.2753	19965.372	1552	5073.8968	19703.225	1444	5165.4107	19354.154	1579	5253.4617	19029.771	1012
5008.6390	19959.936	1734	5074.7483	19699.919	1584	5166.2822	19350.889	1	5254.9554	19024.362	1
5011.2120	19949.688	910	5076.2646	19694.035	1579	5167.4885	19346.372	180	5255.6654	19021.792	1579
5012.0684	19946.279	89	5078.9748	19683.526	1582	5167.7118	19345.536	1228	5255.7356	19021.538	1581
5012.1579	19945.923	1557	5079.2230	19682.564	273	5168.8981	19341.096	1	5257.6553	19014.593	1299
5012.6947	19943.787	1583	5079.7400	19680.561	89	5169.2987	19339.597	1521	5262.8809	18995.713	1119
5014.9425	19934.848	1442	5080.3518	19678.191	1423	5171.3144	19332.059	1838	5263.3063	18994.178	1012
5016.4790	19928.742	1579	5080.7881	19676.501	838	5171.5964	19331.005	179	5263.8650	18992.162	1299
5019.7307	19915.833	1443	5080.9361	19675.928	1064	5171.6731	19330.718	1382	5265.2439	18987.188	837
5020.8170	19911.524	1262	5083.3386	19666.629	89	5173.1252	19325.292	837	5266.5554	18982.460	792
5021.5912	19908.454	1583	5084.5457	19661.960	1422	5173.5038	19323.878	838	5267.2699	18979.885	1645
5021.6835	19908.088	1554	5088.1531	19648.020	1553	5177.2340	19309.955	1421	5269.0608	18973.434	1890
5022.2355	19905.900	1442	5090.7740	19637.905	1580	5178.8006	19304.114	1674	5269.5374	18971.718	88
5022.7891	19903.706	839	5096.9980	19613.925	1582	5182.2231	19291.365	1838	5270.3564	18968.770	180
5023.1866	19902.131	1585	5098.5723	19607.869	1465	5184.1760	19284.098	1646	5273.1636	18958.672	1012
5023.4978	19900.898	1649	5098.6981	19607.385	273	5184.2661	19283.763	1579	5273.3736	18957.917	354
5024.7936	19895.766	1527	5099.0773	19605.927	1442	5185.7260	19278.334	1301	5274.9813	18952.139	1517
5025.0844	19894.615	1605	5104.0302	19586.902	908	5187.9142	19270.203	1521	5278.5804	18939.217	1120
5025.3026	19893.751	1609	5104.1912	19586.284	1582	5191.4550	19257.060	792	5280.3620	18932.827	1381
5027.1231	19886.547	1552	5104.4375	19585.339	1580	5192.3442	19253.762	792	5281.6307	18928.279	1890
5027.2255	19886.142	1383	5107.4474	19573.797	89	5194.9418	19244.135	179	5281.7904	18927.707	792
5027.3425	19885.679	1444	5107.6411	19573.055	179	5195.4723	19242.170	1582	5283.6210	18921.149	1012
5027.7567	19884.041	1605	5108.4034	19570.134	1732	5196.0596	19239.995	1581	5284.4248	18918.271	1349
5028.1264	19882.579	1303	5109.6520	19565.352	1579	5197.9373	19233.045	1581	5284.6086	18917.613	1521
5029.6176	19876.684	1229	5110.3588	19562.646	1302	5198.7111	19230.182	273	5285.1286	18915.752	1674
5030.7786	19872.097	1064	5112.0131	19562.438	1	5202.2564	19217.077	1580	5288.5247	18903.605	1420
5031.0363	19871.079	1383	5112.9170	19552.858	1838	5202.3360	19216.783	273	5293.0294	18887.517	1673
5031.9145	19867.611	1649	5115.7781	19541.923	1300	5204.5826	19208.488	1	5293.9588	18884.201	1520
5036.9222	19847.859	908	5121.6392	19519.560	1585	5204.9506	19207.130	837	5294.5482	18882.099	1379
5039.2520	19838.683	1179	5121.9732	19518.287	1261	5207.9376	19196.114	1381	5295.3121	18879.375	1645
5040.2400	19834.794	1583	5123.2804	19513.307	1649	5208.5940	19193.695	1012	5298.7758	18867.034	1379
5040.8525	19832.384	1582	5123.7200	19511.633	89	5209.8847	19188.940	1063	5298.9497	18866.415	1835
5040.9061	19832.173	1584	5124.6198	19508.207	1064	5213.8414	19174.378	1700	5304.7614	18845.746	1837
5041.0716	19831.522	89	5125.1171	19506.314	1580	5214.6080	19171.559	1634	5305.4227	18843.397	1380
5041.3474	19830.437	909	5125.8345	19503.584	1524	5215.1806	19169.454	1012	5307.3610	18836.515	179
5041.4476	19830.043	1699	5126.1930	19502.220	1579	5216.2740	19165.436	179	5314.0249	18812.894	1951
5041.7560	19828.830	179	5127.3593	19497.784	89	5217.3893	19161.339	1012	5315.7714	18806.713	1380
5041.8486	19828.466	1582	5127.6796	19496.566	1	5217.9193	19159.393	1381	5320.0356	18791.639	1380
5044.2114	19819.178	692	5129.6308	19489.150	1442	5221.0381	19147.948	1633	5321.1080	18787.852	1673
5046.3632	19810.727	1840	5131.4687	19482.170	273	5221.7630	19145.290	1119	5321.8345	18785.287	1347
5048.4361	19802.593	1465	5133.6885	19473.746	1582	5223.1855	19140.076	1381	5322.0408	18784.559	352
5049.8198	19797.167	354	5136.0931	19464.629	1524	5224.2983	19135.999	272	5324.1790	18777.015	1012
5051.6345	19790.055	89	5137.3822	19459.745	1580	5225.5261	19131.503	1	5326.1428	18770.092	1296
5052.9814	19784.780	1064	5139.2515	19452.667	792	5226.0661	19129.526	1227	5328.0387	18763.413	88
5054.6426	19778.278	1384	5139.4628	19451.867	792	5226.8623	19126.612	792	5328.5317	18761.677	180
5055.9916	19773.001	1648	5141.7390	19443.256	354	5227.1507	19125.557	354	5329.9891	18756.547	1518
5056.8412	19769.679	1606	5142.4941	19440.401	1580	5227.1895	19125.415	180	5332.6602	18747.152	1520
5057.4836	19767.168	1554	5142.5412	19440.223	1582	5228.3767	19121.072	1581	5332.8997	18746.310	179
5057.4836	19767.168	1649	5142.9285	19438.759	89	5229.8485	19115.691	1012	5339.9294	18721.632	1012
5058.4975	19763.206	1384	5143.7237	19435.754	272	5229.8743	19115.597	1580	5341.0240	18717.795	180
5060.0344	19757.203	1585	5145.0937	19430.579	273	5231.3885	19110.064	1298	5349.7376	18687.308	1671
5060.0790	19757.029	1	5146.3064	19426.000	1649	5232.9403	19104.397	792	5353.3736	18674.616	1550
5064.5905	19739.430	1522	5148.0428	19419.448	1580	5235.3867	19095.470	1520	5358.1147	18658.092	1119
5064.9528	19738.018	1585	5148.2292	19418.745	1585	5236.2041	19092.489	1521	5361.6251	18645.876	1641

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
5364.8713	18634.594	1645	5463.2762	18298.950	1671	5560.2116	17979.934	1672	5650.7055	17691.995	1885
5365.3991	18632.761	1297	5464.2796	18295.590	1519	5561.2428	17976.600	1730	5651.4690	17689.605	1669
5367.4668	18625.583	1645	5466.3962	18288.506	1642	5562.7065	17971.870	1671	5651.5243	17689.432	1642
5369.9619	18616.929	1645	5466.9878	18286.527	1295	5563.6002	17968.983	1550	5652.3180	17686.948	1603
5371.4897	18611.634	88	5470.0940	18276.143	1642	5563.6950	17968.677	352	5653.8668	17682.103	1666
5373.7086	18603.949	1674	5472.7091	18267.410	1603	5565.7040	17962.191	1697	5655.1765	17678.008	1885
5376.7293	18593.497	1834	5473.1642	18265.891	1551	5567.2782	17957.112	1643	5655.4900	17677.028	1602
5376.8334	18593.137	1632	5473.9005	18263.434	1550	5567.3911	17956.748	537	5655.4900	17677.028	1885
5378.5112	18587.337	1951	5476.2885	18255.470	1517	5569.6181	17949.568	1178	5658.5317	17667.526	1178
5379.5740	18583.665	1419	5476.5642	18254.551	1550	5572.8424	17939.183	1178	5658.6579	17667.132	1577
5383.3692	18570.564	1645	5478.4556	18248.249	1550	5573.1024	17938.346	1549	5658.8164	17666.637	1178
5385.5753	18562.957	1418	5480.8608	18240.241	1550	5576.0888	17928.739	1178	5659.5747	17664.270	1888
5386.3341	18560.342	1551	5481.2430	18238.969	1546	5584.7647	17900.887	1293	5660.8011	17660.443	1375
5386.9596	18558.187	1379	5481.4387	18238.318	1549	5586.7559	17894.507	1178	5661.0217	17659.755	1775
5387.4804	18556.393	1520	5481.8989	18236.787	1889	5587.5740	17891.887	1516	5661.3455	17658.745	1603
5389.4792	18549.511	1644	5482.4616	18234.915	1887	5592.2346	17876.976	1373	5661.9707	17656.795	1604
5391.2466	18543.430	1296	5483.0988	18232.796	1549	5594.6553	17869.241	1696	5662.5162	17655.094	1577
5391.4585	18542.701	1550	5487.1451	18219.351	1641	5600.0993	17851.870	1918	5662.9380	17653.779	1416
5391.6225	18542.137	1349	5487.3951	18218.521	1731	5600.2242	17851.472	1603	5665.6338	17645.379	1375
5393.1676	18536.825	1012	5487.4819	18218.233	1376	5602.7673	17843.369	1550	5666.7910	17641.776	1548
5395.2184	18529.779	1641	5487.5213	18218.102	1551	5602.9451	17842.803	1178	5667.4608	17639.691	1886
5397.1280	18523.223	88	5487.7460	18217.356	1641	5603.7459	17840.253	1373	5667.5180	17639.513	1574
5397.2023	18522.968	1646	5491.8315	18203.804	1520	5607.6637	17827.789	1546	5667.6648	17639.056	537
5397.6178	18521.542	1348	5492.0786	18202.985	1515	5608.9723	17823.630	1603	5669.6477	17632.887	1547
5398.2794	18519.272	1644	5493.4988	18198.279	1549	5611.3599	17816.046	1375	5671.8302	17626.102	1666
5398.8156	18517.433	1836	5494.4626	18195.087	1514	5611.6790	17815.033	1922	5672.2640	17624.754	1775
5400.5022	18511.650	1644	5497.5161	18184.981	88	5614.2717	17806.806	1885	5673.3768	17621.297	1415
5400.6559	18511.123	1376	5498.4788	18181.797	1917	5615.2966	17803.556	537	5677.6848	17607.927	1545
5401.2689	18509.022	1645	5501.4653	18171.927	88	5615.6439	17802.455	1178	5678.3788	17605.775	1464
5403.8215	18500.279	1517	5504.3620	18162.364	1295	5617.1366	17797.724	1578	5678.6016	17605.084	353
5404.1172	18499.267	1644	5505.8817	18157.351	1644	5618.6327	17792.985	1602	5679.0229	17603.778	1697
5404.1516	18499.149	1673	5506.7791	18154.392	88	5619.2249	17791.110	1415	5680.2404	17600.005	1516
5405.3499	18495.048	1670	5508.4088	18149.021	1832	5619.5954	17789.937	1669	5681.5065	17596.083	1515
5405.7752	18493.593	88	5512.2567	18136.352	1641	5620.0269	17788.571	1516	5682.4989	17593.010	1830
5406.7751	18490.173	1647	5512.4026	18135.872	1647	5620.4203	17787.326	1924	5684.4841	17586.866	1923
5407.3758	18488.119	1260	5517.0655	18120.544	1604	5620.4924	17787.098	1549	5685.8633	17582.600	1833
5409.1336	18482.111	1646	5522.4465	18102.888	1603	5622.9461	17779.336	1375	5686.1204	17581.805	1371
5410.9098	18476.044	1673	5523.9933	18097.819	1919	5624.0220	17775.935	1667	5686.5302	17580.538	1696
5412.7857	18469.641	1670	5525.5443	18092.739	1550	5624.5422	17774.291	1178	5691.4970	17565.196	1577
5415.1993	18461.409	1673	5528.8990	18081.761	1669	5627.0860	17766.256	1575	5693.3183	17559.577	1830
5417.0332	18455.159	1647	5529.1602	18080.907	1378	5627.7166	17764.265	1375	5696.0896	17551.034	1693
5423.7383	18432.344	1418	5531.9839	18071.678	1833	5633.9465	17744.622	1885	5698.0200	17545.088	1371
5424.0682	18431.223	1645	5532.7472	18069.185	1294	5635.8226	17738.715	1578	5698.3649	17544.026	1630
5429.5045	18412.769	1550	5532.8687	18068.788	1643	5636.2115	17737.491	1541	5699.4100	17540.809	1822
5429.6967	18412.117	88	5534.6634	18062.929	1377	5636.2462	17737.382	1547	5701.5446	17534.242	537
5429.8395	18411.633	1670	5535.4179	18060.467	1517	5636.6962	17735.966	1373	5701.8987	17533.153	1574
5432.9479	18401.099	1641	5536.5801	18056.676	738	5637.1081	17734.670	1374	5702.3479	17531.772	1372
5434.5238	18395.763	88	5538.5162	18050.364	1346	5638.2621	17731.040	1577	5702.9067	17530.054	1827
5436.2958	18389.767	1669	5538.5162	18050.364	1551	5639.3445	17727.637	1833	5704.7337	17524.440	1883
5436.5962	18388.751	353	5539.2800	18047.875	1377	5640.3101	17724.602	1730	5705.4646	17522.195	1577
5437.1928	18386.733	1644	5543.0292	18035.668	1551	5640.8766	17722.822	1549	5705.9922	17520.575	1697
5441.3387	18372.724	1642	5543.1896	18035.146	1832	5641.4340	17721.071	1577	5706.0961	17520.256	1578
5445.0424	18360.227	1671	5543.9357	18032.719	1550	5641.4913	17720.891	1373	5707.0495	17517.329	1373
5446.5829	18355.034	1642	5546.5058	18024.363	1644	5642.7513	17716.934	1698	5707.2479	17516.720	1372
5446.8746	18354.051	180	5546.9924	18022.782	1549	5643.9262	17713.246	1512	5707.7041	17515.320	1544
5446.9168	18353.909	88	5549.9527	18013.169	1417	5644.0259	17712.933	1730	5708.0945	17514.122	1669
5452.0882	18336.500	1376	5552.6937	18004.277	1833	5644.3573	17711.893	1545	5709.3783	17510.184	1178
5455.4544	18325.186	1644	5553.5778	18001.411	1669	5645.8338	17707.261	1730	5709.9323	17508.485	1578
5455.6095	18324.665	88	5554.8951	17997.142	1697	5646.6843	17704.594	1604	5711.8486	17502.611	1577
5460.8769	18306.990	907	5557.9028	17987.403	1672	5647.7667	17701.201	351	5712.1316	17501.744	1178
5461.5499	18304.734	1644	5557.9028	17987.403	907	5649.6306	17695.361	1345	5712.8886	17499.425	1829
5462.9595	18300.011	1671	5557.9822	17987.146	1671	5649.9873	17694.244	1885	5714.5491	17494.340	1883

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
5715.0986	17492.658	1549	5780.2829	17295.395	1574	5838.1413	17123.992	1822	5898.5107	16948.735	1882
5715.0986	17492.658	1576	5780.6001	17294.446	1011	5838.3718	17123.316	1441	5899.0635	16947.147	1258
5715.4694	17491.523	1542	5780.8043	17293.835	1011	5842.0275	17112.601	1570	5901.5314	16940.060	1573
5716.1721	17489.373	1668	5781.4944	17291.771	1728	5843.1523	17109.307	1569	5901.7429	16939.453	1855
5717.8329	17484.293	1602	5782.1096	17289.931	1883	5843.2268	17109.089	1062	5902.4736	16937.356	1775
5720.8982	17474.925	1692	5783.8947	17284.595	1011	5844.9188	17104.136	1544	5905.6720	16928.183	1695
5721.7069	17472.455	1545	5784.0342	17284.178	1573	5845.2869	17103.059	1884	5906.2557	16926.510	1542
5721.7069	17472.455	1578	5784.6584	17282.313	1178	5845.9620	17101.084	1829	5906.8430	16924.827	1824
5723.6724	17466.455	1667	5785.1712	17280.781	1370	5848.0665	17094.930	1011	5907.8634	16921.904	1412
5724.4547	17464.068	1604	5785.5201	17279.739	1970	5848.1294	17094.746	1689	5909.8439	16916.233	1877
5730.8570	17444.558	1826	5785.6580	17279.327	1822	5849.1850	17091.661	1062	5909.9736	16915.862	1011
5731.7623	17441.803	1577	5786.9910	17275.347	1575	5849.6840	17090.203	1413	5914.1120	16904.025	1695
5732.2960	17440.179	1884	5787.9626	17272.447	1574	5850.0907	17089.015	1827	5914.2013	16903.770	1694
5732.8630	17438.454	1543	5790.4065	17265.157	1884	5851.2052	17085.760	1824	5916.0401	16898.516	1880
5734.5652	17433.278	1831	5791.0180	17263.334	1011	5852.2187	17082.801	1692	5916.2474	16897.924	466
5735.7088	17429.802	1824	5791.1941	17262.809	1822	5853.1483	17080.088	178	5916.5506	16897.058	1543
5738.2277	17422.151	1575	5791.5239	17261.826	1775	5853.6826	17078.529	1543	5918.9319	16890.260	1573
5739.7804	17417.438	1545	5791.8511	17260.851	1916	5854.6305	17075.764	1667	5920.5030	16885.778	1061
5741.8484	17411.165	1576	5793.6787	17255.406	1774	5855.0766	17074.463	1693	5923.5150	16877.192	1854
5742.9600	17407.795	1575	5793.9148	17254.703	1576	5856.0880	17071.514	1627	5923.7494	16876.524	1768
5743.9291	17404.858	1916	5796.4306	17247.214	1729	5858.2654	17065.169	466	5926.8237	16867.770	1772
5747.4532	17394.186	1727	5796.6595	17246.533	1542	5858.7780	17063.676	1575	5927.7891	16865.023	1689
5747.8382	17393.021	1668	5798.1714	17242.036	1464	5859.2343	17062.347	1575	5929.6772	16859.653	1690
5747.9542	17392.670	1696	5801.2688	17232.830	1883	5859.5867	17061.321	1695	5930.1799	16858.224	1694
5749.4094	17388.268	1372	5804.0350	17224.617	1441	5859.9549	17060.249	1542	5931.8907	16853.362	1507
5749.6365	17387.581	1667	5804.4627	17223.348	1577	5861.1096	17056.888	1575	5933.8004	16847.938	1724
5750.0331	17386.382	1830	5805.7571	17219.508	1884	5862.3565	17053.260	1694	5934.6549	16845.512	1464
5752.0320	17380.340	1694	5806.6268	17216.929	1825	5864.2444	17047.770	1576	5935.1295	16844.165	1770
5753.1227	17377.045	1602	5806.7249	17216.638	1694	5864.3965	17047.328	1824	5936.9377	16839.035	1826
5753.3836	17376.257	1575	5807.7838	17213.499	1011	5866.2334	17041.990	1766	5939.2402	16832.507	1062
5753.6935	17375.321	1578	5807.9755	17212.931	1692	5866.4451	17041.375	1573	5940.4521	16829.073	1827
5753.9697	17374.487	466	5809.1553	17209.435	1414	5866.9901	17039.792	1728	5940.9915	16827.545	1573
5754.4026	17373.180	1372	5809.2181	17209.249	1464	5871.3037	17027.273	1543	5943.1007	16821.573	1512
5755.1327	17370.976	1886	5809.8825	17207.281	1575	5872.7261	17023.149	1011	5943.5784	16820.221	270
5755.3481	17370.326	1371	5809.9713	17207.018	1292	5873.2129	17021.738	1577	5943.6240	16820.092	1569
5759.2621	17358.521	1698	5811.9145	17201.265	1513	5876.1338	17013.277	1291	5945.3903	16815.095	1062
5759.5412	17357.680	1577	5812.4450	17199.695	1725	5876.2782	17012.859	1575	5947.5115	16809.098	1725
5760.3446	17355.259	1371	5813.3299	17197.077	1542	5877.7880	17008.489	1573	5949.2797	16804.102	87
5760.5318	17354.695	1542	5814.0081	17195.071	1886	5879.4870	17003.574	1727	5949.3470	16803.912	1690
5760.6935	17354.208	1062	5814.8075	17192.707	1576	5879.4870	17003.574	1853	5951.4536	16797.964	1061
5760.6935	17354.208	1544	5815.2178	17191.494	1543	5880.0272	17002.012	1727	5952.7184	16794.395	1441
5761.0819	17353.038	1545	5815.2178	17191.494	1775	5881.2801	16998.390	1692	5952.8850	16793.925	1569
5761.2559	17352.514	1371	5815.5141	17190.618	1623	5881.7510	16997.029	270	5953.5975	16791.915	1773
5762.2315	17349.576	1822	5815.6282	17190.281	1831	5883.0753	16993.203	1624	5956.4605	16783.844	1569
5762.4135	17349.028	1372	5816.0609	17189.002	1626	5883.8170	16991.061	1464	5956.6944	16783.185	87
5762.6058	17348.449	1769	5816.3735	17188.078	1693	5886.8167	16982.403	1825	5957.8645	16779.889	1572
5762.8384	17347.749	1576	5817.0765	17186.001	1827	5887.4646	16980.534	1728	5958.2284	16778.864	1725
5762.9922	17347.286	1602	5819.2802	17179.493	1573	5888.8175	16976.633	1724	5958.2284	16778.864	87
5767.9727	17332.307	1629	5821.8896	17171.793	1831	5889.3896	16974.984	1725	5958.3332	16778.569	270
5769.3228	17328.251	1693	5826.6380	17157.799	1575	5890.4962	16971.795	1884	5959.9146	16774.117	1510
5769.5692	17327.511	1578	5827.4542	17155.396	1829	5891.1759	16969.837	1693	5960.3609	16772.861	1882
5769.6725	17327.201	1543	5827.8771	17154.151	1011	5891.8786	16967.813	1771	5961.5246	16769.587	1913
5770.1563	17325.748	1774	5828.4044	17152.599	1884	5892.4652	16966.124	1727	5961.9181	16768.480	1570
5773.4503	17315.863	1292	5833.3599	17138.028	1569	5892.6937	16965.466	1576	5962.2197	16767.632	1726
5774.7049	17312.101	1511	5833.9267	17136.363	537	5892.8010	16965.157	270	5963.0657	16765.253	1369
5775.0806	17310.975	1577	5834.0298	17136.060	1829	5893.2349	16963.908	1543	5963.2386	16764.767	270
5775.6301	17309.328	1855	5835.1008	17132.915	1575	5895.0173	16958.779	1776	5965.4718	16758.491	1543
5776.2244	17307.547	1414	5835.4179	17131.984	1884	5895.1633	16958.359	1259	5965.6943	16757.866	1061
5778.4533	17300.871	1542	5835.4962	17131.754	1574	5896.7433	16953.815	1916	5965.9909	16757.033	1829
5778.4533	17300.871	537	5835.5735	17131.527	737	5897.7525	16950.914	1774	5966.9808	16754.253	1508
5778.8091	17299.806	1728	5836.7551	17128.059	1915	5898.2153	16949.584	1793	5969.5622	16747.008	1576
5779.6881	17297.175	1822	5837.7012	17125.283	1628	5898.5107	16948.735	1855	5973.4709	16736.050	1877

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
5975.3464	16730.797	1507	6065.4822	16482.172	536	6253.8309	15985.777	1788	6438.7581	15526.654	1665
5975.3464	16730.797	1794	6065.8009	16481.306	1061	6254.2585	15984.684	350	6439.5623	15524.715	1664
5976.1604	16728.518	1625	6071.4202	16466.052	1853	6256.3615	15979.311	465	6446.1003	15508.969	1503
5976.4391	16727.738	1571	6078.4911	16446.898	1793	6265.1340	15956.937	269	6459.2860	15477.310	1506
5976.7771	16726.792	1441	6079.0093	16445.496	1690	6270.2250	15943.981	736	6462.7251	15469.074	464
5978.3233	16722.466	1825	6081.7107	16438.191	1640	6271.2788	15941.302	1177	6462.7251	15469.074	86
5978.8946	16720.868	1829	6081.8280	16437.874	1508	6280.6182	15917.597	86	6464.6642	15464.434	86
5981.3650	16713.962	1344	6082.7106	16435.489	271	6280.7741	15917.202	1765	6469.1181	15453.787	464
5981.7544	16712.874	1879	6083.6634	16432.915	1463	6290.9656	15891.416	1790	6469.1930	15453.608	1790
5982.3121	16711.316	1823	6085.2590	16428.606	624	6291.0701	15891.152	1789	6472.1494	15446.549	1639
5983.6810	16707.493	1689	6087.8786	16421.537	1510	6293.9257	15883.942	1794	6475.6244	15438.260	535
5984.8151	16704.327	1794	6091.7207	16411.180	1726	6297.7931	15874.188	269	6476.6095	15435.912	1540
5985.1885	16703.285	1824	6093.6444	16405.999	1691	6301.5012	15864.847	1325	6481.8703	15423.384	348
5986.9563	16698.353	1061	6094.3736	16404.036	1691	6302.4936	15862.349	1325	6483.9462	15418.446	177
5987.0649	16698.050	1794	6096.6653	16397.870	1441	6307.8549	15848.867	1367	6494.4999	15393.391	1787
5988.5565	16693.891	1914	6097.0814	16396.751	271	6311.5003	15839.713	736	6494.9805	15392.252	464
5991.2611	16686.355	1877	6098.2447	16393.623	1726	6312.7705	15836.526	1664	6495.7422	15390.447	1785
5992.6413	16682.512	1570	6100.2716	16388.176	1725	6315.3068	15830.166	1505	6496.4666	15388.731	1790
5992.9987	16681.517	1543	6102.1777	16383.057	1690	6315.4125	15829.901	1506	6498.9392	15382.876	86
5994.5439	16677.217	1258	6102.1777	16383.057	1793	6315.8115	15828.901	1504	6499.6161	15381.274	1660
5995.9141	16673.406	1724	6103.1851	16380.353	1794	6318.0175	15823.374	464	6500.4787	15379.233	2004
5997.6749	16668.511	1877	6103.2939	16380.061	1791	6322.6855	15811.692	536	6504.1835	15370.473	1786
5997.7778	16668.225	1689	6105.1314	16375.131	1689	6330.8495	15791.302	1786	6504.5089	15369.704	1506
5998.9385	16665.000	1344	6107.3296	16369.237	1505	6335.3308	15780.132	269	6509.6168	15357.644	1501
6000.6305	16660.301	1882	6120.2494	16334.682	87	6336.8243	15776.413	1325	6518.3671	15337.028	736
6003.0123	16653.691	1441	6127.9066	16314.271	1507	6338.8775	15771.303	1790	6533.9294	15300.499	1723
6005.5413	16646.678	536	6135.7901	16293.310	1878	6344.1491	15758.198	465	6538.4939	15289.818	1504
6007.7150	16640.655	1061	6136.6153	16291.119	465	6350.5448	15742.328	1765	6546.2395	15271.727	623
6007.9601	16639.976	1692	6136.9947	16290.112	269	6351.2726	15740.524	1639	6547.5763	15268.609	86
6008.5566	16638.324	1464	6137.2859	16289.339	1767	6353.8363	15734.173	86	6551.6780	15259.050	86
6009.8263	16634.809	1118	6137.4984	16288.775	1177	6355.0290	15731.220	736	6555.8696	15249.294	1498
6009.8263	16634.809	1770	6137.6917	16288.262	536	6358.6337	15722.302	1506	6556.7880	15247.158	1787
6012.2099	16628.214	271	6139.8671	16282.491	1572	6358.6976	15722.144	86	6559.7713	15240.224	1764
6012.4377	16627.584	1792	6141.7320	16277.547	1325	6362.8763	15711.819	1509	6569.2155	15218.314	1785
6012.7584	16626.697	1724	6147.8347	16261.389	1506	6364.3657	15708.142	1785	6571.1677	15213.793	1621
6013.9148	16623.500	1877	6151.6181	16251.388	269	6364.6951	15707.329	1765	6574.2284	15206.710	86
6015.2443	16619.826	270	6157.7284	16235.262	1505	6367.1204	15701.346	1789	6575.0158	15204.889	535
6016.0475	16617.607	1880	6159.3776	16230.915	1689	6368.3790	15698.243	1440	6581.2101	15190.578	177
6018.2995	16611.389	1690	6163.5445	16219.942	271	6368.6346	15697.613	1788	6584.5799	15182.804	2003
6019.3659	16608.446	1290	6165.3603	16215.165	1508	6376.1999	15678.988	1639	6591.3129	15167.295	1765
6020.1692	16606.230	1692	6169.5978	16204.028	1789	6380.7433	15667.824	1505	6592.6095	15164.312	1819
6021.7912	16601.757	270	6170.5071	16201.640	1794	6385.7185	15655.617	1785	6592.9138	15163.612	623
6024.0580	16595.510	1692	6173.3356	16194.217	269	6392.5388	15638.914	348	6593.8705	15161.412	464
6027.0509	16587.269	1508	6180.2042	16176.219	624	6393.6013	15636.315	464	6597.5611	15152.931	1785
6027.7236	16585.418	1879	6185.6970	16161.855	2108	6397.9689	15625.641	1664	6601.1220	15144.757	1821
6027.9660	16584.751	1695	6187.9904	16155.865	1441	6399.6493	15621.538	1440	6603.1965	15139.999	1366
6028.1067	16584.364	2123	6191.5584	16146.555	1572	6400.0012	15620.679	1325	6603.3404	15139.669	349
6034.0355	16568.069	1640	6191.5584	16146.555	465	6400.3180	15619.906	86	6604.5890	15136.807	1786
6035.3378	16564.494	1625	6200.3129	16123.757	536	6408.0184	15601.136	1325	6608.0260	15128.934	348
6035.3378	16564.494	1770	6213.4303	16089.718	269	6408.3350	15600.365	1663	6608.9525	15126.813	1540
6036.4573	16561.422	1880	6215.1438	16085.282	1508	6411.1078	15593.618	1788	6609.1103	15126.452	535
6042.2254	16545.612	1695	6219.2810	16074.582	269	6411.6493	15592.301	1325	6609.6787	15125.151	86
6054.0741	16513.230	1640	6220.7837	16070.699	1440	6412.2025	15590.956	465	6613.8254	15115.668	86
6055.0917	16510.455	1877	6226.2503	16056.589	1368	6416.9307	15579.468	1785	6614.9497	15113.099	2002
6055.4016	16509.610	1823	6226.7363	16055.336	1463	6419.6454	15572.880	1440	6622.4073	15096.080	1662
6056.0047	16507.966	1793	6229.2283	16048.913	736	6419.9496	15572.142	1790	6623.7912	15092.926	1500
6057.2585	16504.549	1881	6230.7230	16045.063	536	6420.0655	15571.861	1763	6625.0220	15090.122	86
6060.6243	16495.383	178	6232.6412	16040.125	1325	6421.3508	15568.744	350	6627.5448	15084.378	1687
6060.8081	16494.883	1571	6240.3105	16020.412	1505	6430.8464	15545.756	269	6631.9797	15074.291	1819
6062.8484	16489.332	270	6240.6462	16019.550	271	6434.8760	15536.021	1226	6633.4125	15071.035	1790
6062.9447	16489.070	1828	6246.3188	16005.002	1325	6436.4072	15532.325	1506	6633.7497	15070.269	1723
6065.4822	16482.172	1826	6252.5554	15989.038	465	6438.4596	15527.374	1969	6634.1071	15069.457	1790

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
6636.9646	15062.969	1501	6796.0476	14710.375	1501	7293.0454	13707.916	1567	7583.7882	13182.393	836
6639.8784	15056.359	1498	6796.1252	14710.207	1498	7306.5623	13682.557	1567	7586.0187	13178.517	1638
6645.3677	15043.922	1661	6801.8705	14697.782	177	7307.9318	13679.993	1494	7588.3053	13174.546	1873
6646.9318	15040.382	535	6803.8319	14693.545	1717	7311.0759	13674.110	1567	7594.2506	13164.232	1817
6648.0810	15037.782	86	6804.0009	14693.180	1687	7320.6826	13656.166	1715	7600.6959	13153.069	1876
6653.8527	15024.738	1540	6804.2713	14692.596	1759	7343.9468	13612.906	1979	7605.3593	13145.004	1875
6663.2325	15003.588	1721	6806.8449	14687.041	623	7386.3332	13534.789	1817	7606.4697	13143.085	1873
6663.4421	15003.116	350	6810.2628	14679.670	1723	7389.3086	13529.339	1816	7610.2682	13136.525	1492
6665.4271	14998.648	177	6814.7426	14670.020	1117	7389.3988	13529.174	1567	7615.0831	13128.219	622
6667.4191	14994.167	464	6819.5903	14659.592	1539	7396.5071	13516.172	1818	7615.8483	13126.900	1870
6667.7113	14993.510	1763	6820.3719	14657.912	1723	7396.5071	13516.172	1966	7617.2380	13124.505	1871
6672.6801	14982.345	2001	6824.8231	14648.352	1821	7401.6849	13506.717	1495	7617.9897	13123.210	1493
6673.8143	14979.799	1786	6828.5912	14640.269	1721	7411.1544	13489.459	1567	7620.5128	13118.865	1782
6676.8657	14972.953	1720	6833.2255	14630.340	1720	7418.6674	13475.798	1493	7623.0492	13114.500	1871
6677.9870	14970.439	623	6837.0061	14622.250	1759	7421.5588	13470.548	1715	7634.0062	13095.677	1874
6682.2368	14960.918	1499	6838.8325	14618.345	2198	7430.8567	13453.693	1716	7635.8482	13092.518	1783
6687.4922	14949.161	1501	6839.8305	14616.212	534	7440.9122	13435.512	1815	7647.6487	13072.316	2037
6692.2724	14938.483	1499	6841.3391	14612.989	1721	7443.0224	13431.703	1494	7647.8418	13071.986	1638
6692.4696	14938.043	1718	6842.6858	14610.113	1723	7445.7508	13426.781	1567	7650.9450	13066.684	622
6699.1418	14923.165	1763	6843.6560	14608.042	1686	7447.3938	13423.819	1815	7653.7596	13061.879	1782
6703.5674	14913.313	623	6844.6577	14605.904	177	7453.9978	13411.926	1493	7658.3299	13054.084	1783
6704.4809	14911.281	1540	6847.5954	14599.638	1568	7460.3602	13400.488	2102	7661.1974	13049.198	1567
6705.1024	14909.899	1723	6851.6347	14591.031	177	7461.5206	13398.404	533	7661.4769	13048.722	1876
6707.4332	14904.718	1688	6854.8228	14584.245	1760	7463.3822	13395.062	1874	7664.1587	13044.156	1782
6710.3195	14898.307	177	6855.1621	14583.523	1721	7466.5199	13389.433	1784	7664.2933	13043.927	836
6711.8211	14894.974	1819	6855.7131	14582.351	1720	7469.1914	13384.644	2000	7676.0658	13023.922	1784
6712.4380	14893.605	1820	6856.0732	14581.585	1968	7472.7512	13378.268	1964	7689.0365	13004.952	1871
6713.0469	14892.254	1721	6857.2503	14579.082	1497	7473.5539	13376.831	1715	7696.8127	12988.816	1870
6713.1962	14891.923	1502	6858.1498	14577.170	1686	7476.3759	13371.782	1783	7710.0969	12966.437	1911
6713.7448	14890.706	1787	6861.9420	14569.114	348	7477.5083	13369.757	1439	7710.3645	12965.987	1567
6715.3832	14887.073	1687	6876.0017	14539.324	1502	7481.3195	13362.946	2279	7719.0486	12951.400	1871
6716.2373	14885.180	1759	6880.6305	14529.543	1539	7481.7417	13362.192	622	7720.7130	12948.608	1871
6717.3014	14882.822	1912	6885.7564	14518.727	1686	7481.9326	13361.851	1782	7723.2080	12944.425	347
6717.5271	14882.322	1720	6916.6815	14453.813	1540	7482.2232	13361.332	1875	7733.7232	12926.825	1873
6725.3572	14864.995	1540	6945.2052	14394.452	350	7484.2975	13357.629	1873	7737.6661	12920.238	1638
6726.6668	14862.101	1723	6951.2455	14381.944	1719	7486.1105	13354.394	1462	7742.7047	12911.830	1873
6730.2924	14854.095	1819	6978.8516	14325.054	350	7486.6610	13353.412	1963	7745.5140	12907.147	1872
6732.0649	14850.184	1759	6999.8841	14282.012	1539	7491.4268	13344.917	1965	7746.5943	12905.347	1876
6733.1513	14847.788	1721	7007.9701	14265.533	1568	7491.6486	13344.522	1567	7748.2694	12902.557	836
6735.0060	14843.699	1662	7011.3437	14258.669	1758	7495.0674	13338.435	1567	7751.1091	12897.830	1871
6736.5314	14840.338	1622	7016.3920	14248.410	1539	7498.5304	13332.275	1493	7754.0267	12892.977	2107
6737.2691	14838.713	1010	7022.9539	14235.097	1539	7501.2767	13327.394	1494	7755.0246	12891.318	2047
6737.9870	14837.132	1718	7038.2234	14204.214	1539	7506.0144	13318.982	1873	7779.8120	12850.245	2101
6739.5219	14833.753	177	7068.4097	14143.554	1495	7506.1463	13318.748	1876	7780.5573	12849.014	1659
6745.1013	14821.483	1762	7090.3835	14099.722	1539	7507.2663	13316.761	1638	7788.7450	12835.507	1491
6745.9565	14819.604	1496	7107.4610	14065.844	1496	7508.6178	13314.364	1492	7802.4728	12812.924	1870
6746.9549	14817.411	534	7130.9221	14019.567	1539	7511.0205	13310.105	1567	7807.9091	12804.003	1870
6750.1525	14810.392	350	7132.9863	14015.510	1494	7512.1385	13308.124	1493	7810.8147	12799.240	1870
6752.7071	14804.789	1721	7148.1482	13985.782	1966	7514.1994	13304.474	1963	7813.6467	12794.601	1872
6753.4639	14803.130	1722	7164.4486	13953.962	1539	7528.1451	13279.828	1874	7820.8034	12782.893	1620
6764.1079	14779.836	1759	7181.1959	13921.420	1568	7531.1451	13274.538	1638	7832.1968	12764.298	1659
6769.6593	14767.716	1761	7187.3180	13909.562	1539	7540.4303	13258.192	622	7832.6613	12763.541	2146
6777.4094	14750.829	1502	7207.1116	13871.361	1493	7541.5316	13256.256	1439	7844.5589	12744.183	1782
6783.2657	14738.094	535	7207.3880	13870.829	1539	7541.9128	13255.586	1870	7853.6376	12729.451	1876
6783.7039	14737.142	534	7219.6853	13847.203	1493	7545.5827	13249.139	2279	7855.3988	12726.597	1872
6785.7405	14732.719	1761	7223.6610	13839.582	906	7547.8968	13245.077	1873	7869.6106	12703.614	1638
6785.8506	14732.480	1498	7239.8676	13808.602	1601	7551.1088	13239.443	1870	7869.6106	12703.614	1871
6786.4268	14731.229	1010	7248.1075	13792.904	1967	7559.5731	13224.619	1876	7879.7584	12687.254	1873
6786.8604	14730.288	1540	7261.5140	13767.439	1715	7559.7200	13224.362	1875	7887.0871	12675.465	1638
6787.1622	14729.633	1819	7284.8353	13723.365	1495	7563.0108	13218.608	1783	7892.5461	12666.698	2146
6793.2592	14716.413	1496	7288.7385	13716.016	1567	7568.8999	13208.323	1567	7892.7984	12666.293	2145
6794.6185	14713.469	1820	7292.8294	13708.322	1716	7582.1219	13185.290	1816	7912.8670	12634.169	85

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
7914.7125	12631.223	2037	8198.9221	12193.373	1659	8466.5313	11807.968	1489	8832.9680	11318.115	1849
7915.5140	12629.944	1910	8202.1550	12188.567	2179	8468.4074	11805.352	268	8838.2993	11311.288	2156
7924.1504	12616.179	1782	8204.1030	12185.673	85	8471.7444	11800.702	1812	8838.4290	11311.122	735
7937.1406	12595.531	1637	8204.9372	12184.434	85	8480.6313	11788.336	1814	8846.7407	11300.495	1809
7941.0892	12589.268	1116	8207.7429	12180.269	1637	8481.9818	11786.459	1489	8849.7502	11296.652	1939
7941.8330	12588.089	957	8215.8048	12168.317	2143	8493.2563	11770.813	1714	8862.0518	11280.971	1947
7945.8469	12581.730	1659	8220.3790	12161.546	1637	8493.7961	11770.065	1811	8863.5887	11279.015	1845
7945.9871	12581.508	346	8230.6396	12146.385	2087	8496.9905	11765.640	1685	8866.9329	11274.761	1685
7950.8266	12573.850	1910	8231.7456	12144.753	1812	8514.0721	11742.035	268	8868.4290	11272.859	834
7953.6168	12569.439	2145	8232.3178	12143.909	1637	8515.1084	11740.606	835	8876.0241	11263.213	1809
7954.9345	12567.357	836	8238.5918	12134.661	2308	8525.0294	11726.943	1753	8878.2438	11260.397	835
7955.6922	12566.160	1872	8239.1281	12133.871	347	8526.6690	11724.688	1812	8878.7508	11259.754	1538
7959.1435	12560.711	1871	8242.5172	12128.882	2084	8527.8531	11723.060	1812	8878.9464	11259.506	531
7964.9730	12551.518	1870	8248.1309	12120.627	1637	8538.0152	11709.107	1808	8891.4044	11243.730	1950
7974.4911	12536.537	1757	8257.2810	12107.196	2086	8559.7416	11679.387	1907	8902.9245	11229.181	1808
7981.9118	12524.882	2144	8263.4353	12098.179	2036	8562.1066	11676.161	1658	8905.9947	11225.310	1869
7986.0123	12518.451	1909	8263.7195	12097.763	2155	8567.7905	11668.415	1811	8920.0137	11207.668	1867
7996.8164	12501.538	1757	8263.8267	12097.606	1814	8570.0997	11665.271	2083	8922.6520	11204.354	1865
7997.3026	12500.778	1490	8264.2789	12096.944	2371	8571.8052	11662.950	1814	8929.0777	11196.291	1867
7998.2527	12499.293	1619	8268.1345	12091.303	2178	8582.2574	11648.746	835	8940.3311	11182.198	1804
7998.9458	12498.210	1637	8268.8341	12090.280	1618	8584.7955	11645.302	1812	8942.8959	11178.991	1803
8002.5763	12492.540	1754	8269.6488	12089.089	1755	8592.9507	11634.250	1809	8943.0639	11178.781	734
8002.5763	12492.540	2046	8274.5817	12081.882	2086	8598.8302	11626.295	1658	8945.1900	11176.124	1867
8013.0161	12476.264	2148	8275.8921	12079.969	1812	8607.0810	11615.150	1814	8946.2619	11174.785	734
8021.9587	12462.356	1909	8278.5936	12076.027	2143	8610.6120	11610.387	1658	8950.1888	11169.882	1538
8027.9418	12453.068	1116	8287.2797	12063.370	2085	8611.8040	11608.780	735	8950.6159	11169.349	1948
8028.3145	12452.490	1659	8292.8094	12055.326	2086	8613.9410	11605.900	1814	8954.9390	11163.957	531
8046.0479	12425.045	1637	8293.5146	12054.301	1116	8616.2796	11602.750	1808	8959.8820	11157.798	1976
8047.6185	12422.620	85	8300.0001	12044.882	1908	8616.4741	11602.488	1257	8961.3590	11155.959	1845
8048.9928	12420.499	1490	8310.0703	12030.286	2085	8621.6007	11595.589	835	8969.4176	11145.936	1009
8052.5820	12414.963	1756	8314.4659	12023.926	2127	8632.4147	11581.063	1538	8971.4636	11143.394	1851
8059.3508	12404.536	2157	8321.9158	12013.162	2100	8656.6782	11548.603	1811	8975.4007	11138.506	834
8072.1647	12384.845	347	8324.1484	12009.940	2085	8661.9000	11541.641	268	8978.1969	11135.037	1225
8075.1509	12380.265	85	8327.0563	12005.746	268	8663.7151	11539.223	1812	8984.8886	11126.744	1867
8078.3986	12375.288	2142	8328.9475	12003.020	2085	8671.8592	11528.386	1814	8987.1372	11123.960	1845
8080.5475	12371.997	1116	8331.9157	11998.744	1658	8674.7465	11524.549	735	8994.6271	11114.697	1115
8085.1723	12364.920	1637	8332.5414	11997.843	2366	8679.6359	11518.057	1852	8999.5566	11108.609	735
8089.3535	12358.529	1908	8334.5316	11994.978	2142	8681.2601	11515.902	1939	9006.7637	11099.720	1803
8090.3269	12357.042	1755	8339.4039	11987.970	1658	8688.6255	11506.140	268	9006.7637	11099.720	1947
8090.9673	12356.064	1962	8340.5032	11986.390	1907	8689.8641	11504.500	1907	9008.4121	11097.689	1905
8094.9322	12350.012	2020	8342.2020	11983.949	835	8698.7061	11492.806	834	9010.5946	11095.001	531
8094.9322	12350.012	2157	8342.8571	11983.008	1812	8698.8265	11492.647	2105	9012.0745	11093.179	1867
8096.8755	12347.048	1489	8343.7073	11981.787	2142	8699.4540	11491.818	1809	9013.9776	11090.837	345
8098.3853	12344.746	2143	8349.0449	11974.127	85	8710.3915	11477.388	1809	9019.7469	11083.743	1867
8106.6945	12332.093	1940	8358.5224	11960.550	835	8712.8852	11474.103	2122	9024.3691	11078.066	1807
8108.3212	12329.619	621	8360.7956	11957.298	1658	8713.2034	11473.684	1809	9024.7520	11077.596	1864
8112.1635	12323.779	621	8365.6336	11950.383	1116	8729.1475	11452.727	1225	9026.4420	11075.522	1808
8126.3236	12302.305	1754	8372.1139	11941.133	2177	8747.4250	11428.797	835	9030.7129	11070.284	734
8126.5066	12302.028	1755	8387.7725	11918.841	268	8751.0261	11424.094	2330	9034.6793	11065.424	1938
8146.6773	12271.569	1116	8397.1342	11905.553	2179	8757.1876	11416.056	735	9036.7552	11062.882	1811
8149.5157	12267.295	1754	8401.4000	11899.508	347	8763.9664	11407.226	1685	9047.7676	11049.417	1869
8149.6897	12267.033	1755	8414.0882	11881.564	1659	8784.4405	11380.639	1812	9049.3499	11047.485	1944
8151.7604	12263.917	2371	8419.2787	11874.239	2371	8790.5217	11372.766	1809	9052.5940	11043.526	1948
8168.5967	12238.640	2085	8422.9141	11869.114	1489	8793.3438	11369.116	1685	9057.9713	11036.970	956
8171.1418	12234.828	2178	8424.1406	11867.386	1814	8796.4836	11365.058	1808	9058.7601	11036.009	1938
8172.8205	12232.315	2087	8434.4931	11852.820	1812	8804.6258	11354.548	345	9062.2401	11031.771	1867
8178.9940	12223.082	1637	8439.5721	11845.687	1685	8808.1710	11349.978	1809	9064.6896	11028.790	1804
8186.7957	12211.434	1814	8446.3844	11836.133	1814	8814.5190	11341.804	1907	9068.9170	11023.649	1946
8190.8289	12205.421	2228	8446.5685	11835.875	1809	8816.8869	11338.758	1813	9070.4031	11021.843	1866
8195.2477	12198.840	2142	8447.6391	11834.375	85	8819.4888	11335.413	1811	9078.5716	11011.926	1849
8196.5170	12196.951	1754	8465.1985	11809.827	1812	8824.2211	11329.334	268	9079.5808	11010.702	1685
8198.2720	12194.340	2087	8466.1126	11808.552	1811	8828.0876	11324.372	1811	9080.3874	11009.724	1807

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
9084.1854	11005.121	1566	9246.5589	10811.867	532	9437.7961	10592.788	1684	9705.3052	10300.818	1938
9085.4204	11003.625	2106	9248.1294	10810.031	1921	9443.8023	10586.051	1865	9711.6380	10294.101	1805
9086.4344	11002.397	1906	9248.7608	10809.293	1848	9452.3359	10576.494	1805	9715.5132	10289.995	1973
9088.3186	11000.116	735	9258.2698	10798.191	1685	9452.6674	10576.123	1859	9723.1321	10281.932	1849
9088.5078	10999.887	2278	9259.0055	10797.333	1805	9454.1951	10574.414	1865	9727.8295	10276.967	1944
9089.4044	10998.802	834	9259.2302	10797.071	1849	9463.0287	10564.543	1805	9738.5726	10265.630	1863
9091.6643	10996.068	1846	9263.9621	10791.556	1846	9467.7920	10559.228	1848	9745.1399	10258.712	1946
9092.4780	10995.084	1869	9280.3626	10772.485	1849	9469.9498	10556.822	1804	9746.5508	10257.227	1946
9098.6049	10987.680	1807	9282.2143	10770.336	1845	9472.1104	10554.414	1859	9747.3196	10256.418	1747
9100.4461	10985.457	1806	9284.8264	10767.306	1804	9474.2387	10552.043	1868	9747.8185	10255.893	833
9100.6748	10985.181	1845	9285.8829	10766.081	531	9475.4582	10550.685	1860	9753.0917	10250.348	1781
9103.6375	10981.606	1566	9286.5246	10765.337	1974	9481.3641	10544.113	1750	9759.8767	10243.222	1945
9112.2422	10971.236	1864	9289.4482	10761.949	1865	9485.9541	10539.011	1115	9763.0106	10239.934	1997
9116.9049	10965.625	1807	9294.5351	10756.059	1867	9494.1619	10529.900	1904	9763.3796	10239.547	1863
9117.1327	10965.351	734	9297.1506	10753.033	1781	9495.8852	10527.989	1863	9763.8974	10239.004	1859
9118.8816	10963.248	734	9297.6063	10752.506	1867	9500.5281	10522.844	1945	9764.4047	10238.472	1996
9119.9705	10961.939	1566	9297.9557	10752.102	1804	9501.5891	10521.669	1864	9766.1532	10236.639	1746
9123.5802	10957.602	1975	9301.7293	10747.740	1975	9503.2004	10519.885	2251	9768.3155	10234.373	1684
9132.7416	10946.610	1846	9303.2441	10745.990	1946	9504.1111	10518.877	2329	9780.9412	10221.162	1999
9136.7397	10941.820	1850	9304.6277	10744.392	1810	9507.1551	10515.509	1684	9783.9910	10217.976	1862
9136.7931	10941.756	1845	9308.0194	10740.477	1864	9507.3721	10515.269	2326	9785.8470	10216.038	1847
9140.1178	10937.776	1115	9311.5149	10736.445	1865	9513.2627	10508.758	1865	9786.6450	10215.205	1684
9146.1293	10930.587	531	9318.1787	10728.767	1805	9513.6466	10508.334	1867	9788.2155	10213.566	1860
9147.2188	10929.285	1949	9318.8927	10727.945	1868	9527.7719	10492.755	1864	9791.7090	10209.922	833
9147.7068	10928.702	1950	9319.7927	10726.909	1845	9529.5202	10490.830	1947	9800.3086	10200.963	1863
9147.9579	10928.402	1867	9320.7920	10725.759	2227	9531.2755	10488.898	1859	9800.7996	10200.452	1859
9149.5244	10926.531	1803	9323.8302	10722.264	1863	9532.8487	10487.167	2277	9805.5647	10195.495	1749
9155.6471	10919.224	1867	9324.1745	10721.868	1866	9541.9820	10477.129	1751	9820.2429	10180.256	345
9156.2064	10918.557	834	9327.8389	10717.656	1750	9543.3912	10475.582	1805	9828.8192	10171.373	1176
9157.0820	10917.513	1803	9328.8878	10716.451	1948	9550.9568	10467.284	1805	9832.9539	10167.096	2174
9163.9826	10909.292	1866	9329.5111	10715.735	2329	9556.5059	10461.206	1115	9834.1843	10165.824	1861
9164.5715	10908.591	1805	9334.0563	10710.517	1864	9564.8628	10452.066	1866	9839.1204	10160.724	1749
9169.3232	10902.938	1566	9343.4168	10699.787	1866	9569.9078	10446.556	1863	9847.4601	10152.119	1747
9169.7799	10902.395	2176	9348.9170	10693.492	1944	9573.6551	10442.467	1864	9850.0963	10149.402	1944
9173.1951	10898.336	532	9350.4175	10691.776	1684	9574.9379	10441.068	1947	9850.9990	10148.472	2141
9173.5436	10897.922	2275	9354.6304	10686.961	1865	9578.7562	10436.906	2275	9855.4905	10143.847	1997
9173.6758	10897.765	1866	9358.3905	10682.667	956	9579.4005	10436.204	1864	9856.1930	10143.124	2175
9173.9620	10897.425	1115	9359.4130	10681.500	532	9582.5610	10432.762	531	9861.7368	10137.422	1863
9174.2188	10897.120	1960	9362.3616	10678.136	345	9602.1302	10411.500	1845	9868.1868	10130.796	1859
9178.5608	10891.965	1804	9372.8974	10666.133	531	9604.3257	10409.120	1864	9881.5244	10117.122	1747
9178.9720	10891.477	1806	9375.1221	10663.602	834	9606.4834	10406.782	1751	9886.0819	10112.458	1847
9179.7432	10890.562	1750	9382.9312	10654.727	1846	9608.8961	10404.169	1848	9889.0362	10109.437	1863
9181.0213	10889.046	2106	9383.3593	10654.241	1848	9623.0956	10388.817	1805	9913.1793	10084.816	1859
9185.2254	10884.062	1752	9386.4780	10650.701	2251	9625.6501	10386.060	1846	9921.2700	10076.592	1749
9189.4081	10879.108	1713	9388.1837	10648.766	1805	9626.4973	10385.146	1863	9923.9517	10073.869	1993
9195.1446	10872.321	2327	9389.4225	10647.361	532	9626.8254	10384.792	1946	9924.3891	10073.425	1256
9199.4455	10867.238	1865	9394.6760	10641.407	1806	9632.2933	10378.897	2276	9926.0623	10071.727	2126
9204.7860	10860.933	1936	9401.1137	10634.120	1864	9634.1897	10376.854	1863	9937.0929	10060.547	1748
9209.3411	10855.561	1750	9403.4367	10631.493	1946	9640.7703	10369.771	1946	9944.2057	10053.351	1848
9210.0258	10854.754	734	9404.3310	10630.482	1804	9648.6597	10361.292	1974	9947.8421	10049.676	2326
9212.9811	10851.272	1947	9404.7698	10629.986	1806	9653.1158	10356.509	1781	9951.1583	10046.327	1994
9214.4977	10849.486	1806	9406.6521	10627.859	1938	9657.2336	10352.093	1863	9953.4727	10043.991	1994
9214.9759	10848.923	1976	9408.7555	10625.483	2328	9659.0764	10350.118	1859	9955.8457	10041.597	1749
9217.5631	10845.878	1865	9409.5516	10624.584	1863	9659.0764	10350.118	1960	9959.2307	10038.184	1998
9224.1415	10838.143	1804	9410.1583	10623.899	1865	9660.8247	10348.245	1566	9967.3034	10030.054	1860
9231.7812	10829.174	1945	9411.4836	10622.403	1937	9660.8247	10348.245	1961	9970.2338	10027.106	905
9233.1914	10827.520	1948	9414.0422	10619.516	1865	9676.5446	10331.434	1749	9977.6411	10019.662	1860
9239.9383	10819.614	2122	9415.0636	10618.364	1864	9680.4134	10327.305	1847	9980.4640	10016.828	1862
9240.3055	10819.184	1869	9422.4767	10610.010	1949	9687.9012	10319.323	1684	9987.8696	10009.401	267
9242.1754	10816.995	1566	9430.5696	10600.905	1009	9693.8410	10313.000	1859	9996.0627	10001.197	1847
9242.3677	10816.770	1804	9430.5696	10600.905	1846	9693.8410	10313.000	1920	10006.858	9990.407	1998
9242.6967	10816.385	2329	9433.2935	10597.844	1859	9699.7739	10306.692	1859	10019.792	9977.511	1996

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
10022.287	9975.027	1993	10400.779	9612.030	2076	11057.774	9040.935	1780	11568.338	8641.918	2120
10026.081	9971.253	1749	10401.715	9611.165	905	11081.595	9021.501	2077	11572.517	8638.797	2488
10032.858	9964.517	1996	10403.199	9609.794	2034	11087.737	9016.503	344	11585.217	8629.327	2075
10041.471	9955.970	1846	10423.030	9591.510	620	11097.084	9008.909	2079	11589.703	8625.987	1933
10048.582	9948.925	1994	10423.745	9590.852	905	11098.136	9008.055	2077	11589.922	8625.824	2488
10057.643	9939.962	1861	10435.356	9580.181	1780	11119.798	8990.507	733	11593.591	8623.094	266
10058.249	9939.363	267	10453.153	9563.870	1998	11122.337	8988.454	1935	11594.550	8622.381	1745
10065.045	9932.652	1781	10456.941	9560.406	2081	11127.764	8984.071	2075	11602.912	8616.167	1934
10070.519	9927.253	1993	10469.654	9548.797	1461	11127.834	8984.014	1059	11607.575	8612.706	266
10077.183	9920.688	833	10527.028	9496.755	2017	11131.327	8981.195	2075	11609.624	8611.186	1744
10081.394	9916.544	345	10532.236	9492.059	1461	11135.962	8977.457	1935	11617.012	8605.709	1902
10084.437	9913.552	1747	10553.010	9473.373	2079	11149.264	8966.746	732	11625.077	8599.739	2075
10085.076	9912.924	1746	10555.651	9471.003	1993	11155.893	8961.418	2361	11638.264	8589.995	266
10086.241	9911.779	833	10557.525	9469.322	2077	11161.149	8957.198	2121	11641.801	8587.385	1745
10089.775	9908.307	1993	10577.141	9451.761	1060	11161.149	8957.198	2362	11652.984	8579.144	2080
10104.195	9894.167	1993	10616.723	9416.522	1060	11163.694	8955.156	2076	11656.291	8576.710	2402
10105.517	9892.872	1978	10618.077	9415.321	2032	11186.146	8937.182	2082	11669.642	8566.898	1712
10114.016	9884.559	620	10632.215	9402.801	2225	11188.459	8935.334	2414	11669.642	8566.898	2558
10119.581	9879.124	1176	10632.500	9402.549	2019	11190.021	8934.087	1461	11674.350	8563.443	2324
10132.640	9866.391	2226	10642.664	9393.570	2224	11190.875	8933.405	2077	11676.296	8562.016	1802
10137.102	9862.049	1861	10658.482	9379.629	2018	11192.103	8932.425	2414	11677.999	8560.767	2558
10142.843	9856.466	1861	10682.393	9358.634	1780	11196.485	8928.929	1933	11681.596	8558.131	1254
10145.563	9853.824	1781	10687.795	9353.904	2034	11200.835	8925.461	2034	11682.255	8557.648	2080
10149.078	9850.411	1861	10703.044	9340.577	2072	11218.432	8911.461	2032	11688.667	8552.954	1255
10153.305	9846.310	1996	10717.809	9327.709	2082	11220.896	8909.504	2074	11689.976	8551.996	266
10155.165	9844.507	267	10721.657	9324.362	2035	11224.956	8906.282	1059	11693.206	8549.634	2322
10156.506	9843.207	1747	10725.186	9321.294	1365	11237.102	8896.655	2428	11693.951	8549.089	2077
10156.614	9843.102	2099	10725.186	9321.294	2274	11251.116	8885.574	733	11699.946	8544.709	2360
10167.469	9832.594	267	10731.949	9315.420	1903	11277.484	8864.798	1903	11702.220	8543.048	2305
10173.404	9826.858	1411	10744.547	9304.497	1935	11288.729	8855.968	2429	11715.485	8533.375	2075
10175.500	9824.833	1998	10753.007	9297.177	1461	11294.186	8851.689	2080	11724.488	8526.823	2098
10195.108	9805.938	620	10754.283	9296.074	2072	11298.862	8848.026	733	11725.564	8526.040	2116
10216.314	9785.584	1781	10754.756	9295.665	732	11321.679	8830.194	2080	11728.563	8523.860	1802
10218.410	9783.576	905	10771.231	9281.447	2079	11334.144	8820.483	2078	11739.224	8516.119	2362
10218.976	9783.034	1994	10780.694	9273.300	1060	11337.807	8817.633	2031	11755.994	8503.971	2079
10230.787	9771.740	2224	10783.051	9271.273	905	11355.955	8803.542	1365	11773.552	8491.289	2119
10232.802	9769.816	2224	10785.386	9269.266	2077	11357.735	8802.162	1932	11778.702	8487.576	2173
10249.174	9754.210	2032	10818.276	9241.085	1461	11359.535	8800.767	2074	11783.267	8484.288	733
10252.554	9750.994	2223	10833.965	9227.703	2076	11374.081	8789.512	266	11800.657	8471.785	2360
10258.598	9745.249	1746	10834.242	9227.467	2017	11385.948	8780.351	2306	11808.866	8465.896	1928
10262.463	9741.579	1995	10845.778	9217.652	2034	11388.540	8778.353	2082	11808.866	8465.896	2117
10265.220	9738.963	267	10849.467	9214.518	2080	11390.928	8776.513	2079	11813.833	8462.337	2303
10283.778	9721.388	1994	10863.520	9202.598	1780	11395.569	8772.938	1903	11827.145	8452.812	1745
10307.454	9699.058	1746	10870.392	9196.781	2077	11402.718	8767.438	1488	11829.852	8450.878	2077
10327.313	9680.407	2072	10881.760	9187.173	732	11402.718	8767.438	2471	11835.504	8446.842	1931
10332.329	9675.708	1365	10884.265	9185.059	1461	11409.920	8761.904	2082	11854.242	8433.490	2120
10333.182	9674.909	1746	10896.302	9174.912	905	11410.817	8761.215	2222	11882.847	8413.189	266
10336.342	9671.951	2307	10913.036	9160.843	2079	11411.995	8760.311	2324	11884.085	8412.312	266
10340.886	9667.701	267	10914.069	9159.976	2121	11422.323	8752.390	266	11890.490	8407.781	2075
10345.184	9663.685	2365	10940.240	9138.064	2019	11424.068	8751.053	2360	11891.043	8407.390	2402
10347.966	9661.087	1995	10946.760	9132.621	2018	11427.361	8748.531	2074	11896.028	8403.867	2080
10353.807	9655.637	1994	10948.994	9130.758	2032	11432.853	8744.329	1933	11901.905	8399.717	2078
10360.581	9649.324	2045	10970.017	9113.260	2325	11439.127	8739.533	733	11916.875	8389.165	2171
10362.704	9647.347	1993	10976.663	9107.742	2077	11441.890	8737.422	1438	11926.399	8382.466	1745
10364.062	9646.083	1995	10987.209	9099.000	733	11470.978	8715.266	2075	11934.390	8370.541	2323
10365.169	9645.052	2076	10993.262	9093.990	2077	11474.320	8712.728	2361	11970.500	8351.584	1712
10370.877	9639.744	2033	11013.237	9077.496	1780	11475.767	8711.629	2075	11973.050	8349.805	266
10371.687	9638.991	1365	11020.688	9071.359	1933	11489.553	8701.176	2489	11989.547	8338.316	2360
10379.002	9632.198	267	11026.790	9066.339	1438	11527.863	8672.260	2078	11990.386	8337.733	1992
10387.483	9624.333	2080	11038.667	9056.584	2078	11529.752	8670.839	2082	12005.400	8327.306	2075
10388.744	9623.165	1994	11045.602	9050.898	2082	11546.378	8658.354	2120	12005.548	8327.203	2075
10395.797	9616.636	267	11053.516	9044.418	1438	11555.087	8651.828	2076	12010.588	8323.709	2116

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
12025.157	8313.624	2358	12610.203	7927.917	2192	13222.619	7560.730	1992	13591.393	7355.586	2016
12035.846	8306.241	1744	12615.926	7924.321	1712	13223.104	7560.453	2112	13592.690	7354.884	2356
12044.127	8300.530	1802	12631.467	7914.571	1992	13230.711	7556.106	2352	13600.644	7350.583	904
12053.083	8294.362	1712	12631.943	7914.273	2118	13231.674	7555.556	2115	13609.744	7345.668	2168
12060.706	8289.120	1934	12638.706	7910.038	1712	13244.122	7548.455	1843	13614.064	7343.337	1987
12078.909	8276.628	2073	12648.742	7903.762	1712	13260.730	7539.001	1844	13621.092	7339.548	2487
12080.922	8275.249	1928	12663.285	7894.685	2385	13260.730	7539.001	1987	13624.476	7337.725	1900
12087.059	8271.047	1990	12667.115	7892.298	2073	13286.814	7524.201	1801	13629.189	7335.188	2112
12089.772	8269.191	2386	12670.167	7890.397	1929	13287.829	7523.626	832	13630.025	7334.738	2596
12092.239	8267.504	2076	12680.701	7883.842	1992	13289.685	7522.575	2352	13643.728	7327.371	2114
12115.760	8251.454	2304	12729.959	7853.336	1959	13291.786	7521.386	1987	13645.030	7326.672	2028
12116.756	8250.776	2385	12738.796	7847.888	1990	13302.292	7515.446	2539	13650.066	7323.969	2596
12119.495	8248.911	1745	12739.204	7847.637	2239	13315.738	7507.857	2044	13651.507	7323.196	1114
12131.175	8240.969	2323	12783.446	7820.477	2487	13326.029	7502.059	2349	13653.905	7321.910	2113
12132.238	8240.247	2073	12789.450	7816.806	1801	13332.365	7498.494	2029	13654.636	7321.518	2168
12138.790	8235.799	2192	12807.150	7806.003	1364	13346.787	7490.391	2349	13657.486	7319.990	2354
12142.490	8233.290	2117	12808.244	7805.336	1801	13352.176	7487.368	1957	13657.486	7319.990	2444
12173.728	8212.163	2402	12819.912	7798.232	903	13366.771	7479.193	1898	13659.994	7318.646	2028
12188.393	8202.282	2558	12820.636	7797.792	1858	13374.716	7474.750	1253	13667.989	7314.365	1364
12190.099	8201.134	1364	12824.861	7795.223	832	13376.350	7473.837	2154	13670.045	7313.265	2237
12190.593	8200.802	1959	12826.585	7794.175	2192	13384.471	7469.302	903	13675.451	7310.374	2596
12193.503	8198.845	2173	12840.574	7785.684	1801	13385.238	7468.874	2299	13678.967	7308.495	1982
12213.333	8185.533	1712	12879.769	7761.991	343	13389.419	7466.542	1958	13682.292	7306.719	2016
12225.963	8177.077	2385	12884.638	7759.058	2171	13389.847	7466.303	832	13683.423	7306.115	2577
12227.113	8176.308	1712	12890.693	7755.413	1990	13392.102	7465.046	1958	13686.040	7304.718	2514
12232.532	8172.686	2557	12896.119	7752.150	1801	13408.488	7455.923	2355	13698.559	7298.042	2352
12244.922	8164.416	1364	12897.222	7751.487	1930	13413.828	7452.955	2112	13702.707	7295.833	2218
12267.891	8149.130	1114	12933.006	7730.040	1801	13421.914	7448.465	2115	13703.214	7295.563	1987
12271.816	8146.524	2305	12934.667	7729.047	1986	13431.746	7443.013	2115	13703.406	7295.461	2011
12273.024	8145.722	2385	12946.540	7721.959	1114	13447.920	7434.061	2154	13706.427	7293.853	1987
12274.415	8144.799	1992	12962.225	7712.615	2113	13449.427	7433.228	1900	13709.731	7292.095	2069
12283.296	8138.910	2385	12964.422	7711.308	2401	13450.017	7432.902	2221	13709.848	7292.033	1899
12283.516	8138.764	2359	12977.357	7703.622	1858	13452.189	7431.702	2250	13719.951	7286.663	2189
12288.241	8135.635	2402	12995.667	7692.768	1981	13455.741	7429.740	2357	13721.350	7285.920	1008
12290.570	8134.093	2171	13000.832	7689.712	1858	13457.056	7429.014	2113	13721.350	7285.920	2514
12290.570	8134.093	2402	13006.688	7686.250	832	13459.212	7427.824	1990	13721.384	7285.902	2030
12293.522	8132.140	2385	13014.842	7681.434	1987	13472.542	7420.475	1987	13721.686	7285.742	2351
12297.157	8129.736	1801	13026.815	7674.374	2538	13474.205	7419.559	2028	13724.973	7283.997	2349
12299.722	8128.041	2385	13039.652	7666.819	2116	13480.393	7416.153	2167	13729.304	7281.699	1900
12301.067	8127.152	1990	13057.560	7656.304	1992	13487.508	7412.241	1986	13729.431	7281.632	1900
12312.153	8119.834	2171	13059.367	7655.245	2114	13495.045	7408.101	1801	13735.025	7278.666	2412
12320.265	8114.488	2120	13062.157	7653.610	1992	13496.807	7407.134	2595	13736.631	7277.815	2169
12330.505	8107.749	2240	13062.978	7653.129	2139	13499.318	7405.756	2538	13738.398	7276.879	1986
12340.487	8101.191	343	13077.338	7644.725	1900	13502.702	7403.900	2015	13742.362	7274.780	2249
12342.914	8099.598	1712	13097.404	7633.013	2357	13502.702	7403.900	2170	13746.446	7272.619	2167
12397.081	8064.208	1901	13098.876	7632.155	1801	13503.623	7403.395	2016	13747.410	7272.109	2169
12410.590	8055.430	2401	13107.979	7626.855	2116	13534.574	7386.465	1991	13755.871	7267.636	1958
12414.087	8053.161	2113	13120.466	7619.596	1929	13535.888	7385.748	2014	13765.189	7262.716	2071
12432.811	8041.033	2116	13134.398	7611.514	2238	13539.692	7383.673	1487	13772.386	7258.921	2016
12446.449	8032.222	2192	13135.233	7611.030	1943	13544.603	7380.996	2514	13772.716	7258.747	2043
12448.788	8030.713	1990	13139.589	7608.507	1992	13545.988	7380.241	2580	13784.125	7252.739	2486
12459.765	8023.638	2073	13147.922	7603.685	1987	13546.978	7379.702	1801	13788.355	7250.514	2356
12475.827	8013.308	2117	13151.611	7601.552	904	13558.069	7373.665	2299	13790.225	7249.531	2355
12510.519	7991.087	1802	13170.311	7590.759	2191	13565.021	7369.886	1958	13799.339	7244.743	2538
12512.247	7989.983	1801	13170.573	7590.608	2192	13566.680	7368.985	2164	13800.699	7244.029	2165
12555.464	7962.481	2172	13176.956	7586.931	1990	13569.538	7367.433	1898	13800.699	7244.029	2426
12555.962	7962.165	1987	13187.333	7580.961	1989	13571.242	7366.508	1858	13815.369	7236.337	1957
12556.999	7961.508	343	13194.510	7576.837	2197	13573.344	7365.367	2580	13816.797	7235.589	2069
12580.201	7946.824	1959	13198.505	7574.544	2515	13575.335	7364.287	1537	13823.833	7231.906	2219
12581.134	7946.235	2301	13209.766	7568.087	2352	13579.596	7361.976	903	13824.653	7231.477	1600
12606.476	7930.261	2304	13212.527	7566.505	2354	13581.852	7360.753	2597	13824.758	7231.422	2554
12608.659	7928.888	2029	13222.527	7560.783	2115	13588.965	7356.900	2597	13826.103	7230.719	2152

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
13826.686	7230.414	954	14124.154	7078.135	2165	14303.228	6989.518	2348	14478.670	6904.824	2442
13834.789	7226.179	1981	14125.155	7077.633	2374	14308.243	6987.068	2595	14480.602	6903.903	2596
13842.651	7222.075	2575	14128.461	7075.977	1982	14308.700	6986.845	904	14492.479	6898.245	2321
13843.433	7221.667	2165	14128.896	7075.759	2349	14311.910	6985.278	2512	14497.823	6895.702	1957
13848.127	7219.219	2029	14129.144	7075.635	2349	14312.248	6985.113	2188	14498.622	6895.322	2265
13856.891	7214.653	2164	14131.161	7074.625	2380	14312.412	6985.033	1899	14498.622	6895.322	2554
13866.332	7209.741	2515	14134.364	7073.022	1008	14318.549	6982.039	2578	14499.516	6894.897	2380
13868.269	7208.734	2444	14139.515	7070.445	2618	14323.865	6979.448	2206	14502.917	6893.280	2350
13868.444	7208.643	2444	14140.731	7069.837	1537	14327.282	6977.783	2219	14507.817	6890.952	2596
13876.668	7204.371	1985	14141.772	7069.317	2354	14331.390	6975.783	1984	14510.396	6889.727	2398
13878.783	7203.273	1857	14149.602	7065.405	2580	14334.937	6974.057	2190	14512.208	6888.867	1957
13879.037	7203.141	2354	14156.715	7061.855	2350	14335.457	6973.804	2189	14515.634	6887.241	1410
13888.097	7198.442	2167	14158.182	7061.123	2349	14341.799	6970.720	2321	14518.147	6886.049	2635
13888.385	7198.293	2348	14159.564	7060.434	1898	14343.337	6969.973	2619	14518.307	6885.973	1779
13888.709	7198.125	2153	14160.396	7060.019	2424	14352.997	6965.282	1988	14519.673	6885.325	1982
13889.436	7197.748	1743	14161.094	7059.671	2249	14353.126	6965.219	1981	14523.620	6883.454	2066
13889.624	7197.651	2443	14166.635	7056.910	1985	14355.781	6963.931	2453	14524.340	6883.113	2427
13895.670	7194.519	1857	14169.520	7055.473	2596	14361.314	6961.248	2449	14525.627	6882.503	2384
13897.169	7193.743	1958	14169.737	7055.365	1899	14363.918	6959.986	2538	14527.104	6881.803	2635
13899.057	7192.766	2016	14174.872	7052.809	2010	14365.984	6958.985	1985	14530.100	6880.384	2511
13907.448	7188.426	832	14175.059	7052.716	2273	14369.970	6957.055	2010	14531.256	6879.837	2187
13919.169	7182.373	2189	14180.210	7050.154	2424	14370.633	6956.734	265	14532.276	6879.354	2071
13935.867	7173.767	2071	14180.210	7050.154	2519	14372.110	6956.019	1843	14542.973	6874.294	2377
13937.041	7173.163	2016	14186.370	7047.093	2348	14374.170	6955.022	2265	14544.043	6873.788	2265
13939.687	7171.801	2538	14187.946	7046.310	2444	14376.684	6953.806	2453	14545.112	6873.283	2350
13941.509	7170.864	1843	14192.970	7043.816	2556	14382.785	6950.856	2212	14548.617	6871.627	1600
13944.272	7169.443	2302	14201.062	7039.802	2592	14385.650	6949.472	2234	14555.039	6868.595	1957
13946.778	7168.155	2354	14202.243	7039.217	2351	14387.691	6948.486	2597	14563.771	6864.477	1982
13947.609	7167.728	2352	14204.474	7038.111	2437	14396.432	6944.267	2011	14565.937	6863.456	1957
13948.850	7167.090	2454	14205.048	7037.827	2634	14397.479	6943.762	2443	14567.595	6862.675	2335
13950.594	7166.194	2579	14205.603	7037.552	2350	14400.542	6942.285	1957	14568.389	6862.301	2299
13960.114	7161.307	1537	14207.367	7036.678	2166	14400.988	6942.070	2061	14568.654	6862.176	2248
13960.508	7161.105	1857	14209.970	7035.389	1985	14403.040	6941.081	2395	14570.657	6861.233	2511
13965.534	7158.528	1779	14210.976	7034.891	1983	14403.858	6940.687	2597	14572.163	6860.524	2234
13979.027	7151.618	2356	14215.644	7032.581	1977	14405.226	6940.028	2011	14574.323	6859.507	2028
13987.230	7147.424	1981	14218.596	7031.121	2454	14407.052	6939.148	1982	14576.763	6858.359	2190
13989.260	7146.387	2486	14227.619	7026.662	2169	14408.066	6938.660	1984	14577.090	6858.205	2379
13990.301	7145.855	2596	14230.879	7025.052	2236	14410.248	6937.609	2579	14579.830	6856.916	2383
13997.496	7142.182	2321	14233.047	7023.982	2167	14414.803	6935.417	2029	14581.157	6856.292	2595
14001.976	7139.897	1957	14234.024	7023.500	2140	14416.017	6934.833	2265	14585.382	6854.306	1537
14004.482	7138.619	2351	14236.223	7022.415	1958	14418.664	6933.560	2026	14588.949	6852.630	2380
14007.288	7137.189	1958	14243.919	7018.621	1857	14429.529	6928.339	2380	14593.922	6850.295	2189
14017.248	7132.118	2455	14245.086	7018.046	2139	14431.075	6927.597	2011	14600.150	6847.373	2383
14017.747	7131.864	2455	14249.736	7015.756	2321	14432.527	6926.900	343	14601.404	6846.785	2097
14019.827	7130.806	2595	14251.267	7015.002	2066	14434.900	6925.761	2594	14601.779	6846.609	2208
14028.835	7126.227	1900	14256.165	7012.592	1224	14437.577	6924.477	1600	14603.669	6845.723	904
14038.319	7121.413	2233	14258.914	7011.240	2265	14439.341	6923.631	1983	14606.714	6844.296	2321
14038.873	7121.132	1957	14260.081	7010.666	2454	14439.856	6923.384	2218	14618.784	6838.645	2633
14039.841	7120.641	1857	14269.658	7005.961	2442	14442.272	6922.226	1957	14620.105	6838.027	2578
14043.505	7118.783	1858	14273.466	7004.092	2377	14442.526	6922.104	2575	14628.114	6834.283	2350
14057.383	7111.755	1984	14275.677	7003.007	2355	14447.137	6919.895	1981	14630.392	6833.219	2426
14057.972	7111.457	1899	14276.680	7002.515	2169	14447.262	6919.835	2027	14634.911	6831.109	1779
14067.176	7106.804	2029	14279.811	7000.980	2334	14457.052	6915.149	2353	14641.099	6828.222	2453
14075.001	7102.853	2596	14285.087	6998.394	1957	14458.746	6914.339	904	14641.663	6827.959	2453
14081.308	7099.672	2350	14289.026	6996.465	2234	14459.170	6914.136	2300	14644.721	6826.533	2453
14095.962	7092.291	2041	14290.317	6995.833	2350	14460.745	6913.383	1857	14648.032	6824.990	2165
14099.075	7090.725	1857	14292.349	6994.838	1958	14463.281	6912.171	2592	14650.679	6823.757	2166
14105.431	7087.530	2443	14294.258	6993.904	1957	14465.570	6911.077	2212	14651.024	6823.596	2380
14108.511	7085.983	2164	14294.569	6993.752	2011	14467.128	6910.333	2028	14651.808	6823.231	2380
14111.083	7084.691	2026	14298.347	6991.904	2348	14472.493	6907.771	2069	14652.901	6822.722	2380
14119.901	7080.267	2164	14298.555	6991.802	2026	14476.050	6906.074	1857	14654.405	6822.022	2381
14121.077	7079.677	2350	14298.555	6991.802	2616	14478.123	6905.085	2442	14659.031	6819.869	1224

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
14666.369	6816.457	2511	14822.359	6744.721	2427	14988.780	6669.834	2377	15132.692	6606.404	2376
14668.348	6815.537	1600	14823.049	6744.407	2427	14989.059	6669.710	2212	15133.567	6606.022	2434
14669.472	6815.015	1982	14826.412	6742.877	1956	14990.162	6669.219	2597	15136.126	6604.905	2213
14670.408	6814.580	2555	14828.569	6741.896	2265	14993.640	6667.672	2026	15137.080	6604.489	2411
14672.118	6813.786	2233	14834.315	6739.285	2574	14996.546	6666.380	2437	15140.193	6603.131	2364
14672.779	6813.479	2027	14837.696	6737.749	1988	14998.247	6665.624	2370	15143.096	6601.865	2206
14673.005	6813.374	2010	14838.275	6737.486	1857	15004.016	6663.061	2382	15144.060	6601.445	2066
14674.254	6812.794	2426	14842.704	6735.476	2379	15004.476	6662.857	2394	15153.078	6597.516	2022
14675.758	6812.096	2486	14845.465	6734.223	2442	15005.111	6662.575	2096	15159.721	6594.625	2411
14678.307	6810.913	2006	14845.833	6734.056	2467	15007.221	6661.638	2469	15160.501	6594.286	2413
14679.844	6810.200	2410	14847.167	6733.451	1008	15007.697	6661.427	2468	15160.703	6594.198	2413
14680.482	6809.904	2400	14848.182	6732.991	2395	15009.486	6660.633	2425	15160.827	6594.144	2566
14689.762	6805.602	2380	14849.068	6732.589	954	15009.486	6660.633	2553	15168.869	6590.648	2574
14691.839	6804.640	2410	14858.775	6728.191	2186	15011.264	6659.844	2246	15172.269	6589.171	1982
14693.983	6803.647	2410	14861.149	6727.116	2383	15013.768	6658.733	2394	15176.717	6587.240	2217
14700.056	6800.836	2165	14862.216	6726.633	2347	15015.466	6657.980	2377	15178.867	6586.307	2377
14702.968	6799.489	1957	14863.668	6725.976	2441	15017.702	6656.989	2392	15179.750	6585.924	2217
14709.406	6796.513	2595	14866.608	6724.646	2441	15020.310	6655.833	1779	15180.197	6585.730	2070
14719.659	6791.779	1957	14867.614	6724.191	2467	15022.321	6654.942	2578	15182.922	6584.548	2426
14722.351	6790.537	2377	14870.621	6722.831	2380	15022.666	6654.789	2190	15184.840	6583.716	2376
14725.437	6789.114	2235	14871.035	6722.644	2441	15030.653	6651.253	2377	15194.492	6579.534	265
14729.555	6787.216	343	14876.543	6720.155	2595	15035.791	6648.980	2616	15197.680	6578.154	2453
14732.375	6785.917	731	14880.495	6718.370	2354	15036.167	6648.814	2347	15198.807	6577.666	2424
14737.576	6783.522	1857	14894.868	6711.887	2353	15036.474	6648.678	2164	15202.961	6575.869	2025
14742.942	6781.053	2377	14897.410	6710.742	2595	15039.881	6647.172	2246	15204.100	6575.376	2422
14742.942	6781.053	2454	14899.759	6709.684	2381	15039.881	6647.172	2635	15207.530	6573.893	1956
14745.395	6779.925	265	14903.935	6707.804	2595	15040.322	6646.977	2067	15212.297	6571.833	2553
14745.874	6779.705	2022	14909.636	6705.239	2576	15043.993	6645.355	2273	15213.026	6571.518	2453
14748.732	6778.391	2347	14911.389	6704.451	2061	15046.939	6644.054	2633	15214.156	6571.030	2424
14749.792	6777.904	2380	14918.213	6701.384	2321	15051.749	6641.931	1956	15216.884	6569.852	1983
14752.364	6776.722	2066	14924.424	6698.595	2485	15053.378	6641.212	2437	15219.622	6568.670	2063
14754.043	6775.951	1983	14928.200	6696.901	2065	15053.378	6641.212	2469	15224.731	6566.466	2213
14754.600	6775.695	2383	14929.151	6696.474	1983	15057.471	6639.407	2297	15226.352	6565.767	2424
14755.543	6775.262	2423	14931.854	6695.262	2427	15062.716	6637.095	2042	15229.283	6564.503	2026
14755.864	6775.115	2213	14932.681	6694.891	2233	15062.854	6637.034	2038	15233.672	6562.612	2420
14765.754	6770.577	2217	14937.124	6692.900	2380	15063.065	6636.941	1982	15237.775	6560.845	2167
14767.525	6769.765	2454	14938.635	6692.223	2381	15066.961	6635.225	2069	15238.817	6560.396	2266
14767.771	6769.652	2185	14939.644	6691.771	2595	15069.811	6633.970	2184	15239.296	6560.190	2334
14768.579	6769.282	2426	14943.246	6690.158	2633	15073.269	6632.448	2426	15239.714	6560.010	2591
14769.493	6768.863	2423	14946.744	6688.592	1984	15077.291	6630.679	2066	15244.973	6557.747	2061
14771.407	6767.986	2096	14947.390	6688.303	2064	15077.291	6630.679	265	15246.498	6557.091	2440
14771.876	6767.771	2196	14947.806	6688.117	2028	15078.492	6630.151	2013	15250.431	6555.400	2097
14775.561	6766.083	2061	14952.215	6686.145	2247	15080.225	6629.389	2465	15251.008	6555.152	2346
14778.824	6764.589	2380	14954.031	6685.333	2556	15084.302	6627.597	2064	15253.556	6554.057	2377
14779.141	6764.444	2065	14956.151	6684.385	2063	15086.196	6626.765	2220	15253.826	6553.941	2420
14781.956	6763.156	2595	14956.574	6684.196	1897	15087.972	6625.985	2265	15259.365	6551.562	2235
14787.549	6760.598	2195	14959.224	6683.012	2591	15092.890	6623.826	2465	15260.635	6551.017	2442
14793.111	6758.056	2095	14960.487	6682.448	2245	15094.699	6623.032	2575	15263.235	6549.901	2265
14794.394	6757.470	2454	14962.961	6681.343	2010	15095.196	6622.814	1600	15264.200	6549.487	2395
14796.076	6756.702	2208	14963.767	6680.983	731	15099.106	6621.099	2424	15267.030	6548.273	1896
14797.460	6756.070	2382	14968.333	6678.945	2392	15106.131	6618.020	2334	15268.895	6547.473	2442
14798.323	6755.676	2454	14970.030	6678.188	1982	15106.131	6618.020	2441	15272.790	6545.803	2218
14803.472	6753.326	2266	14973.440	6676.667	2248	15109.482	6616.552	2097	15274.312	6545.151	2271
14805.171	6752.551	2443	14974.344	6676.264	2187	15112.004	6615.448	2441	15277.068	6543.970	2246
14805.518	6752.393	2376	14978.510	6674.407	2452	15112.333	6615.304	2441	15283.655	6541.150	2397
14806.009	6752.169	1486	14978.962	6674.206	2347	15113.679	6614.715	2441	15283.655	6541.150	2452
14806.842	6751.789	2236	14979.707	6673.874	2378	15118.117	6612.773	2441	15287.492	6539.508	2377
14808.325	6751.113	1958	14982.053	6672.829	2164	15120.026	6611.938	2061	15289.992	6538.439	2452
14814.735	6748.192	1857	14982.805	6672.494	2452	15120.509	6611.727	1983	15291.364	6537.852	2452
14815.242	6747.961	2166	14984.181	6671.881	2452	15122.382	6610.908	2066	15293.140	6537.093	2400
14815.242	6747.961	955	14984.664	6671.666	2070	15125.645	6609.482	2389	15294.562	6536.485	1956
14818.918	6746.287	2427	14987.295	6670.495	2452	15132.692	6606.404	1711	15294.897	6536.342	2578

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
15295.662	6536.015	2509	15492.144	6453.121	2185	15629.626	6396.358	1711	15776.734	6336.716	2264
15295.910	6535.909	2452	15493.011	6452.760	2009	15631.106	6395.752	1363	15781.668	6334.735	2550
15296.165	6535.800	1857	15493.556	6452.533	2631	15631.950	6395.407	1956	15789.000	6331.793	2439
15296.500	6535.657	2438	15496.699	6451.224	2441	15638.948	6392.545	2187	15789.514	6331.587	2439
15296.814	6535.523	2616	15497.043	6451.081	2441	15639.482	6392.327	2578	15793.515	6329.983	2245
15297.167	6535.372	2413	15500.806	6449.515	2467	15645.020	6390.064	2394	15798.235	6328.092	2290
15301.562	6533.495	2212	15501.325	6449.299	2465	15647.410	6389.088	2422	15798.564	6327.960	2439
15305.380	6531.865	2347	15502.176	6448.945	2412	15648.515	6388.637	1956	15799.985	6327.391	2632
15305.608	6531.768	2399	15503.933	6448.214	2440	15649.666	6388.167	2012	15806.282	6324.870	2550
15311.724	6529.159	2446	15514.281	6443.913	2465	15652.874	6386.858	2421	15808.852	6323.842	2397
15313.234	6528.515	2377	15515.757	6443.300	2465	15656.641	6385.321	2215	15810.137	6323.328	2212
15315.655	6527.483	2395	15516.721	6442.900	2465	15659.790	6384.037	2007	15812.788	6322.268	2094
15319.842	6525.699	530	15518.896	6441.997	2393	15661.284	6383.428	2094	15815.700	6321.104	1897
15323.557	6524.117	2470	15519.098	6441.913	2465	15662.018	6383.129	2209	15816.635	6320.730	2206
15328.343	6522.080	2381	15519.365	6441.802	2434	15662.322	6383.005	2424	15818.142	6320.128	2061
15330.618	6521.112	2617	15519.932	6441.567	343	15665.245	6381.814	2213	15819.138	6319.730	2410
15330.792	6521.038	2438	15521.691	6440.837	2424	15670.131	6379.824	2378	15820.435	6319.212	2247
15335.387	6519.084	1956	15522.614	6440.454	2442	15670.999	6379.471	2424	15821.712	6318.702	2063
15343.802	6515.509	2066	15524.311	6439.750	2166	15671.871	6379.116	2208	15822.821	6318.259	2061
15345.019	6514.992	1983	15527.211	6438.547	2422	15673.161	6378.591	2421	15824.334	6317.655	2398
15345.929	6514.606	2378	15530.803	6437.058	2654	15673.807	6378.328	2424	15829.295	6315.675	2410
15348.968	6513.316	2321	15531.758	6436.662	2061	15676.589	6377.196	1897	15832.624	6314.347	2410
15360.238	6508.537	1600	15534.247	6435.631	2066	15677.017	6377.022	2421	15834.164	6313.733	2410
15366.927	6505.704	2594	15537.453	6434.303	2165	15677.523	6376.816	2421	15835.164	6313.334	2410
15371.317	6503.846	2214	15537.697	6434.202	2424	15678.339	6376.484	2233	15837.081	6312.570	2392
15375.352	6502.139	2208	15542.083	6432.386	2063	15679.825	6375.880	2480	15837.643	6312.346	2410
15375.761	6501.966	2399	15548.678	6429.658	2412	15680.080	6375.776	2377	15840.195	6311.329	2412
15384.109	6498.438	2376	15549.319	6429.393	2553	15681.406	6375.237	2382	15842.321	6310.482	2023
15387.810	6496.875	2397	15550.458	6428.922	2424	15682.021	6374.987	1956	15843.278	6310.101	2435
15394.672	6493.979	2063	15550.458	6428.922	2485	15682.518	6374.785	2470	15845.219	6309.328	2213
15394.672	6493.979	2213	15551.435	6428.518	2412	15683.391	6374.430	2067	15848.479	6308.030	2448
15395.723	6493.536	2061	15552.105	6428.241	2026	15686.024	6373.360	2424	15848.718	6307.935	2211
15395.723	6493.536	2412	15553.583	6427.630	1984	15686.445	6373.189	2421	15850.570	6307.198	2450
15396.225	6493.324	2631	15554.522	6427.242	2391	15687.157	6372.900	2470	15851.794	6306.711	2420
15408.558	6488.127	2095	15554.522	6427.242	2555	15691.857	6370.991	2421	15852.807	6306.308	2483
15415.850	6485.058	2212	15560.786	6424.655	2412	15692.751	6370.628	1956	15853.320	6306.104	2217
15416.382	6484.834	2012	15563.911	6423.365	2469	15694.496	6369.920	2376	15854.029	6305.822	1894
15422.685	6482.184	2565	15564.359	6423.180	2094	15698.513	6368.290	2040	15854.438	6305.659	2591
15423.420	6481.875	2219	15565.231	6422.820	2424	15700.098	6367.647	2420	15858.661	6303.980	2064
15426.523	6480.571	2364	15566.729	6422.202	2469	15706.901	6364.889	2391	15863.714	6301.972	2451
15427.621	6480.110	2574	15569.236	6421.168	1983	15714.809	6361.686	2594	15864.651	6301.600	2412
15436.294	6476.469	2247	15571.120	6420.391	2248	15723.593	6358.132	2066	15866.260	6300.961	2184
15437.321	6476.038	2186	15571.741	6420.135	2438	15729.763	6355.638	2214	15868.526	6300.061	2063
15441.802	6474.159	2208	15574.063	6419.178	2395	15731.414	6354.971	2578	15878.449	6296.124	2063
15451.308	6470.176	2591	15576.038	6418.364	2022	15733.511	6354.124	2439	15884.148	6293.865	2381
15451.952	6469.906	2438	15579.086	6417.108	2420	15741.930	6350.726	2061	15886.682	6292.861	2196
15451.952	6469.906	2565	15585.387	6414.514	2573	15743.717	6350.005	2039	15887.717	6292.451	2423
15454.255	6468.942	1983	15588.264	6413.330	2591	15749.203	6347.793	2062	15888.003	6292.338	530
15456.269	6468.099	2565	15590.051	6412.595	2408	15751.722	6346.778	2573	15891.167	6291.085	2452
15456.754	6467.896	2097	15590.726	6412.317	2413	15755.669	6345.188	2419	15892.291	6290.640	2411
15456.754	6467.896	2245	15591.497	6412.000	2408	15756.039	6345.039	2594	15892.412	6290.592	2423
15462.418	6465.527	2433	15591.497	6412.000	2413	15757.084	6344.618	2196	15892.468	6290.570	2564
15475.194	6460.189	2026	15593.752	6411.073	1857	15761.315	6342.915	2439	15892.963	6290.374	2411
15475.194	6460.189	2395	15598.876	6408.967	2408	15764.327	6341.703	2423	15894.757	6289.664	2376
15476.507	6459.641	2467	15604.225	6406.770	2408	15764.511	6341.629	2439	15895.230	6289.477	2451
15478.882	6458.650	2381	15611.138	6403.933	1224	15765.784	6341.117	2423	15896.552	6288.954	2411
15479.603	6458.349	2467	15613.632	6402.910	2469	15767.390	6340.471	2164	15896.954	6288.795	2026
15479.900	6458.225	2467	15614.100	6402.718	2407	15767.572	6340.398	2296	15897.659	6288.516	2452
15480.234	6458.086	2095	15615.117	6402.301	2347	15769.097	6339.785	2423	15898.026	6288.371	2452
15485.461	6455.906	2392	15621.158	6399.825	2378	15769.427	6339.652	2061	15898.251	6288.282	2562
15490.339	6453.873	265	15621.659	6399.620	2063	15770.619	6339.173	2423	15898.898	6288.026	2423
15490.886	6453.645	2441	15629.371	6396.462	2284	15774.070	6337.786	2423	15899.259	6287.883	2423

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
15900.334	6287.458	1983	16017.410	6241.501	2434	16179.585	6178.940	2245	16350.827	6114.228	2093
15900.597	6287.354	2007	16018.003	6241.270	1896	16179.585	6178.940	2481	16357.987	6111.552	2697
15900.992	6287.198	2193	16018.727	6240.988	2094	16180.910	6178.434	2451	16362.846	6109.737	2690
15901.520	6286.989	2209	16019.787	6240.575	2411	16182.172	6177.952	2481	16366.347	6108.430	2411
15904.318	6285.883	2483	16020.953	6240.121	2376	16185.801	6176.567	2484	16369.756	6107.158	2690
15906.044	6285.201	2061	16021.710	6239.826	2093	16189.374	6175.204	2195	16372.485	6106.140	2409
15908.562	6284.206	2246	16029.422	6236.824	2411	16190.323	6174.842	2601	16375.862	6104.881	2478
15908.722	6284.143	2437	16037.826	6233.556	2463	16191.170	6174.519	2290	16375.862	6104.881	2696
15909.081	6284.001	2411	16038.129	6233.438	530	16192.570	6173.985	2441	16376.688	6104.573	2482
15909.243	6283.937	2564	16039.858	6232.766	2063	16193.294	6173.709	2287	16377.393	6104.310	2423
15911.304	6283.123	2209	16040.656	6232.456	2213	16194.469	6173.261	2601	16377.393	6104.310	2482
15912.594	6282.614	2484	16041.856	6231.990	2449	16195.062	6173.035	2601	16380.860	6103.018	2482
15912.789	6282.537	2484	16042.715	6231.656	2439	16195.254	6172.962	2601	16381.207	6102.889	2482
15913.629	6282.205	2564	16049.051	6229.196	2409	16197.316	6172.176	2184	16381.819	6102.661	2483
15917.331	6280.744	2591	16051.741	6228.152	2463	16197.418	6172.137	2483	16382.256	6102.498	2478
15920.114	6279.646	2451	16056.168	6226.435	2594	16197.623	6172.059	2448	16384.144	6101.795	2411
15920.649	6279.435	2451	16064.731	6223.116	2411	16198.505	6171.723	1956	16389.166	6099.925	2319
15920.649	6279.435	2660	16069.645	6221.213	2007	16201.518	6170.575	2483	16390.488	6099.433	2646
15921.096	6279.259	2026	16070.185	6221.004	2208	16202.713	6170.120	2465	16391.789	6098.949	1175
15921.514	6279.094	2446	16071.402	6220.533	2439	16203.336	6169.883	2420	16394.391	6097.981	2208
15922.607	6278.663	2564	16072.094	6220.265	2008	16204.255	6169.533	2465	16396.311	6097.267	2478
15922.749	6278.607	2417	16072.252	6220.204	2467	16204.549	6169.421	2551	16398.169	6096.576	2208
15926.419	6277.160	2447	16073.869	6219.578	2411	16207.746	6168.204	2465	16398.315	6096.522	2411
15926.673	6277.060	1711	16075.922	6218.784	2467	16213.003	6166.204	2465	16401.395	6095.377	2411
15928.168	6276.471	2297	16077.954	6217.998	731	16213.540	6166.000	2451	16404.600	6094.186	2482
15928.678	6276.270	2394	16082.853	6216.104	2394	16225.623	6161.408	2483	16406.151	6093.610	1895
15929.477	6275.955	2441	16083.049	6216.028	2008	16231.653	6159.119	2551	16406.151	6093.610	2433
15934.022	6274.165	2441	16086.193	6214.813	2588	16234.192	6158.156	2320	16407.791	6093.001	2439
15936.204	6273.306	2195	16087.169	6214.436	2393	16235.969	6157.482	2218	16407.977	6092.932	2483
15938.112	6272.555	2564	16088.736	6213.831	2467	16240.872	6155.623	2423	16409.501	6092.366	2578
15938.732	6272.311	2441	16089.676	6213.468	2411	16241.574	6155.357	2375	16409.633	6092.317	2417
15938.922	6272.236	2469	16090.911	6212.991	2374	16243.067	6154.791	2451	16410.393	6092.035	2396
15939.110	6272.162	2441	16100.284	6209.374	2482	16243.994	6154.440	2391	16412.176	6091.373	2483
15940.923	6271.449	2186	16100.608	6209.249	2482	16245.762	6153.770	2423	16412.979	6091.075	2439
15943.005	6270.630	2318	16102.408	6208.555	2208	16246.158	6153.620	2423	16414.766	6090.412	2411
15943.851	6270.297	2589	16102.408	6208.555	2467	16246.462	6153.505	2451	16419.276	6088.739	2587
15943.851	6270.297	2659	16109.759	6205.722	1175	16252.555	6151.198	2423	16421.213	6088.021	2210
15951.463	6267.305	2513	16111.085	6205.211	2484	16258.925	6148.788	2378	16422.793	6087.435	2587
15952.636	6266.844	2560	16115.147	6203.647	2484	16266.899	6145.774	1895	16423.131	6087.310	2587
15954.095	6266.271	2393	16115.965	6203.332	2484	16272.473	6143.669	2451	16430.164	6084.704	2407
15954.782	6266.001	2185	16123.212	6200.544	2482	16277.485	6141.777	2417	16430.164	6084.704	2436
15962.178	6263.098	2631	16125.906	6199.508	2482	16280.775	6140.536	2261	16436.626	6082.312	2217
15962.560	6262.948	2591	16126.824	6199.155	2067	16284.772	6139.029	2552	16440.402	6080.915	2439
15963.302	6262.657	2591	16130.517	6197.736	2007	16284.987	6138.948	2552	16443.463	6079.783	2445
15964.869	6262.042	2206	16134.338	6196.268	2631	16288.781	6137.518	2594	16444.818	6079.282	2209
15967.659	6260.948	2469	16138.003	6194.861	2510	16292.848	6135.986	2218	16446.541	6078.645	2439
15971.253	6259.539	2576	16138.328	6194.736	2263	16294.109	6135.511	2244	16446.647	6078.606	2587
15980.728	6255.828	2463	16138.328	6194.736	2263	16296.593	6134.576	2257	16454.402	6075.741	2245
15982.079	6255.299	2439	16142.459	6193.151	2407	16297.509	6134.231	2023	16454.906	6075.555	2220
15988.157	6252.921	2068	16146.599	6191.563	2418	16309.269	6129.808	2096	16457.108	6074.742	2333
15988.428	6252.815	2614	16153.249	6189.014	1956	16311.964	6128.795	2378	16460.368	6073.539	2095
15989.594	6252.359	2212	16155.499	6188.152	2095	16316.325	6127.157	2478	16466.927	6071.120	2600
15997.728	6249.180	2220	16156.564	6187.744	2209	16318.552	6126.321	2417	16471.764	6069.337	2467
15998.389	6248.922	2436	16157.732	6187.297	2614	16318.701	6126.265	2214	16474.085	6068.482	2297
16002.268	6247.407	2376	16159.006	6186.809	2040	16324.459	6124.104	1956	16476.936	6067.432	2439
16005.168	6246.275	2393	16162.846	6185.339	2481	16324.459	6124.104	2528	16477.979	6067.048	2464
16006.757	6245.655	2411	16165.031	6184.503	2481	16331.529	6121.453	2217	16481.228	6065.852	2483
16007.083	6245.528	2411	16168.686	6183.105	2392	16333.146	6120.847	2063	16486.669	6063.850	2208
16008.080	6245.139	2439	16171.932	6181.864	2483	16337.133	6119.353	2008	16492.097	6061.854	2718
16009.615	6244.540	1956	16174.978	6180.700	2483	16345.494	6116.223	2591	16492.538	6061.692	2374
16012.862	6243.274	2064	16177.093	6179.892	2398	16347.041	6115.644	2696	16494.435	6060.995	2600
16013.911	6242.865	2439	16177.998	6179.546	2551	16350.686	6114.281	2260	16494.704	6060.896	2463

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
16497.355	6059.922	2025	16665.484	5998.787	2291	16843.236	5935.480	2211	17008.999	5877.635	2657
16504.142	6057.430	2467	16666.790	5998.317	2410	16849.155	5933.395	2465	17011.101	5876.909	2295
16506.298	6056.639	2284	16679.164	5993.867	2207	16850.924	5932.772	2246	17015.475	5875.398	2716
16513.220	6054.100	2194	16680.836	5993.266	2591	16855.032	5931.326	2408	17018.627	5874.310	2571
16515.673	6053.201	2008	16685.541	5991.576	2404	16856.444	5930.829	2465	17019.995	5873.838	2406
16516.745	6052.808	2292	16685.719	5991.512	2559	16856.857	5930.684	2465	17020.742	5873.580	1894
16517.228	6052.631	2463	16690.190	5989.907	2343	16857.144	5930.583	2296	17027.622	5871.207	2657
16519.150	6051.927	2572	16693.080	5988.870	2552	16857.743	5930.372	2138	17029.991	5870.390	2479
16519.417	6051.829	2600	16699.617	5986.526	2510	16858.531	5930.095	2465	17033.665	5869.124	2599
16521.519	6051.059	2463	16707.557	5983.681	2591	16863.422	5928.375	2451	17037.793	5867.702	2599
16522.079	6050.854	2463	16709.293	5983.059	2024	16864.056	5928.152	2389	17039.802	5867.010	2088
16524.471	6049.978	2549	16711.307	5982.338	2433	16864.056	5928.152	2465	17047.642	5864.312	2482
16525.132	6049.736	2220	16711.609	5982.230	2700	16865.519	5927.638	2551	17047.642	5864.312	2551
16525.496	6049.603	2570	16717.805	5980.013	2458	16866.429	5927.318	2271	17049.898	5863.536	2615
16531.989	6047.227	2463	16718.115	5979.902	2504	16869.953	5926.080	2551	17052.184	5862.750	2599
16536.408	6045.611	2462	16719.077	5979.558	2207	16870.605	5925.851	2501	17064.889	5858.385	2651
16538.000	6045.029	2463	16720.735	5978.965	2482	16874.119	5924.617	2481	17065.259	5858.258	2504
16539.195	6044.592	2549	16721.470	5978.702	2482	16874.902	5924.342	2420	17070.391	5856.497	2332
16540.873	6043.979	2549	16723.280	5978.055	2214	16875.967	5923.968	2741	17070.548	5856.443	2433
16541.051	6043.914	2477	16723.966	5977.810	2550	16879.016	5922.898	2708	17070.548	5856.443	2660
16541.426	6043.777	2298	16724.696	5977.549	2550	16880.769	5922.283	2259	17071.201	5856.219	2546
16541.968	6043.579	2549	16725.443	5977.282	2482	16883.041	5921.486	2408	17072.128	5855.901	2466
16544.672	6042.591	2549	16727.147	5976.673	2479	16883.269	5921.406	2458	17072.833	5855.659	1893
16551.997	6039.917	2552	16728.311	5976.257	2407	16883.625	5921.281	2408	17075.152	5854.864	2213
16556.487	6038.279	2551	16728.311	5976.257	2550	16884.820	5920.862	2292	17081.801	5852.585	2244
16556.684	6038.207	2259	16728.681	5976.125	2550	16885.684	5920.559	2481	17086.157	5851.093	2390
16557.145	6038.039	2552	16739.311	5972.330	2482	16886.871	5920.143	2707	17094.451	5848.254	2589
16558.563	6037.522	1895	16747.909	5969.264	2421	16890.417	5918.900	2707	17094.451	5848.254	2660
16559.682	6037.114	2551	16749.152	5968.821	2573	16892.375	5918.214	2451	17098.228	5846.962	2137
16561.770	6036.353	2208	16751.335	5968.043	2220	16892.375	5918.214	2481	17100.451	5846.202	2567
16563.891	6035.580	2257	16752.744	5967.541	2214	16893.288	5917.894	2594	17107.670	5843.735	2258
16566.732	6034.545	2008	16753.070	5967.425	2550	16893.954	5917.661	2408	17112.353	5842.136	2660
16575.277	6031.434	2064	16756.970	5966.036	2631	16895.184	5917.230	2481	17114.348	5841.455	2545
16576.483	6030.995	2462	16775.160	5959.567	2576	16898.882	5915.935	2451	17115.707	5840.991	2660
16578.064	6030.420	1893	16780.501	5957.670	1895	16900.234	5915.462	2408	17121.599	5838.981	2259
16585.608	6027.677	2446	16781.183	5957.428	2410	16910.688	5911.805	2246	17125.262	5837.732	2459
16586.054	6027.515	2063	16782.842	5956.839	2410	16918.647	5909.024	1112	17130.961	5835.790	2476
16587.210	6027.095	2447	16783.039	5956.769	2421	16926.610	5906.244	2379	17132.165	5835.380	2550
16587.521	6026.982	2551	16785.809	5955.786	2244	16927.613	5905.894	2630	17132.937	5835.117	2550
16592.782	6025.071	2259	16786.585	5955.511	2410	16927.845	5905.813	2630	17137.104	5833.698	2550
16600.290	6022.346	2297	16787.348	5955.240	2477	16928.628	5905.540	2209	17137.237	5833.653	2394
16601.798	6021.799	2390	16788.304	5954.901	2410	16930.967	5904.724	2451	17138.888	5833.091	2403
16607.636	6019.682	2407	16792.224	5953.511	2410	16936.994	5902.623	2701	17138.888	5833.091	2548
16612.206	6018.026	1175	16794.204	5952.809	2653	16937.384	5902.487	2701	17140.366	5832.588	2570
16612.766	6017.823	2551	16799.651	5950.879	2212	16941.425	5901.079	2573	17151.667	5828.745	2550
16619.745	6015.296	2063	16803.166	5949.634	2593	16942.209	5900.806	2137	17152.738	5828.381	2754
16620.483	6015.029	2093	16803.502	5949.515	2462	16945.173	5899.774	2482	17154.080	5827.925	2262
16627.778	6012.390	2095	16807.438	5948.122	2207	16947.686	5898.899	2407	17159.542	5826.070	2501
16632.509	6010.680	2209	16807.610	5948.061	2410	16951.787	5897.472	2479	17161.109	5825.538	2284
16640.645	6007.741	2215	16810.620	5946.996	2410	16956.051	5895.989	2568	17166.198	5823.811	2291
16645.281	6006.068	2272	16811.377	5946.728	2421	16964.309	5893.119	2421	17173.862	5821.212	2209
16645.877	6005.853	2209	16812.681	5946.267	2410	16964.309	5893.119	2482	17173.862	5821.212	2410
16646.908	6005.481	2615	16817.093	5944.707	2694	16968.213	5891.763	2464	17180.993	5818.796	2410
16648.205	6005.013	2644	16818.340	5944.266	2260	16969.912	5891.173	2287	17190.455	5815.593	2681
16652.212	6003.568	2410	16818.340	5944.266	2410	16973.946	5889.773	2418	17191.567	5815.217	2692
16652.639	6003.414	2461	16819.532	5943.845	2262	16979.499	5887.847	2389	17192.832	5814.789	2481
16652.803	6003.355	2563	16819.682	5943.792	2445	16979.499	5887.847	2482	17194.589	5814.195	2481
16653.533	6003.092	2209	16820.259	5943.588	2261	16993.286	5883.070	2417	17200.313	5812.260	2481
16659.519	6000.935	2563	16822.690	5942.729	1894	16995.941	5882.151	2545	17204.303	5810.912	2295
16659.746	6000.853	2410	16822.690	5942.729	2737	16996.238	5882.048	2340	17208.665	5809.439	2261
16659.913	6000.793	2563	16836.454	5937.871	2008	17005.449	5878.862	2295	17208.864	5809.372	2404
16661.376	6000.266	2410	16837.897	5937.362	2551	17007.492	5878.156	2551	17218.283	5806.194	2516

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
17219.552	5805.766	2245	17451.228	5728.691	2650	17640.185	5667.327	1893	17857.790	5598.268	2090
17221.400	5805.143	2629	17453.842	5727.833	2550	17641.305	5666.967	2550	17861.727	5597.034	2693
17224.893	5803.966	2137	17454.781	5727.525	1112	17647.297	5665.043	2699	17866.286	5595.606	2628
17229.714	5802.342	2293	17457.588	5726.604	2215	17658.100	5661.577	2547	17871.952	5593.832	2729
17232.232	5801.494	2206	17458.350	5726.354	2136	17672.122	5657.085	2138	17876.023	5592.558	2589
17233.174	5801.177	2217	17460.012	5725.809	2287	17674.806	5656.226	2088	17877.407	5592.125	2257
17239.382	5799.088	2458	17461.003	5725.484	2690	17678.894	5654.918	2416	17880.845	5591.050	2624
17244.975	5797.207	2709	17461.311	5725.383	2403	17683.910	5653.314	2547	17898.724	5585.465	2481
17252.293	5794.748	2588	17466.445	5723.700	2630	17684.955	5652.980	1460	17904.648	5583.617	2408
17253.121	5794.470	2533	17467.303	5723.419	1893	17688.832	5651.741	2547	17907.178	5582.828	2589
17254.955	5793.854	2629	17467.614	5723.317	1460	17689.483	5651.533	2547	17907.634	5582.686	2498
17257.571	5792.976	2421	17469.919	5722.562	2550	17693.471	5650.259	2535	17908.814	5582.318	2598
17261.665	5791.602	2507	17473.397	5721.423	2550	17694.514	5649.926	2656	17915.085	5580.364	2298
17261.927	5791.514	2111	17478.022	5719.909	2690	17695.942	5649.470	2291	17917.535	5579.601	2598
17262.145	5791.441	2694	17488.567	5716.460	2550	17700.843	5647.906	2547	17918.906	5579.174	2390
17263.310	5791.050	2421	17488.567	5716.460	2690	17706.630	5646.060	2259	17919.407	5579.018	2598
17263.754	5790.901	1942	17499.983	5712.731	2207	17706.630	5646.060	2656	17923.738	5577.670	2640
17275.699	5786.897	2478	17508.034	5710.104	1894	17707.734	5645.708	2547	17923.963	5577.600	2717
17276.968	5786.472	2463	17512.199	5708.746	2390	17709.839	5645.037	2445	17926.351	5576.857	2702
17277.482	5786.300	2478	17512.199	5708.746	2416	17714.364	5643.595	2656	17930.158	5575.673	2207
17278.727	5785.883	2702	17513.999	5708.159	2405	17717.139	5642.711	2561	17932.605	5574.912	2629
17280.815	5785.184	2463	17514.457	5708.010	2477	17721.093	5641.452	2670	17934.169	5574.426	2340
17282.299	5784.687	2629	17516.068	5707.485	2696	17721.379	5641.361	2656	17937.805	5573.296	2212
17286.543	5783.267	2478	17518.121	5706.816	1175	17722.233	5641.089	2243	17938.281	5573.148	2738
17289.538	5782.265	2465	17520.227	5706.130	2138	17722.987	5640.849	2408	17943.114	5571.647	2702
17293.112	5781.070	2478	17531.174	5702.567	2696	17723.173	5640.790	2561	17946.235	5570.678	2463
17293.651	5780.890	2421	17534.744	5701.406	2696	17727.180	5639.515	2656	17955.057	5567.941	2738
17295.500	5780.272	2732	17537.761	5700.425	2243	17727.415	5639.440	2137	17956.034	5567.638	2738
17301.696	5778.202	2403	17538.635	5700.141	2138	17728.107	5639.220	2656	17963.974	5565.177	2629
17302.318	5777.994	2290	17538.635	5700.141	2288	17746.236	5633.459	2137	17966.399	5564.426	2404
17310.237	5775.351	2463	17547.704	5697.195	2433	17747.377	5633.097	2209	17966.399	5564.426	2546
17310.854	5775.145	2463	17548.551	5696.920	2214	17754.963	5630.690	2408	17966.399	5564.426	2569
17313.084	5774.401	2504	17549.140	5696.729	2696	17755.168	5630.625	2561	17968.110	5563.896	2689
17316.890	5773.132	2537	17554.135	5695.108	2590	17758.695	5629.507	2136	17968.992	5563.623	2629
17318.339	5772.649	2292	17554.397	5695.023	2661	17762.143	5628.414	2408	17970.907	5563.030	2259
17321.247	5771.680	2216	17559.876	5693.246	2416	17762.336	5628.353	2561	17971.983	5562.697	2695
17321.733	5771.518	2463	17564.047	5691.894	2481	17771.126	5625.569	2287	17975.599	5561.578	2661
17325.915	5770.125	2570	17564.325	5691.804	2340	17774.273	5624.573	2262	17977.968	5560.845	2394
17334.083	5767.406	2421	17564.831	5691.640	2245	17774.801	5624.406	2209	17982.302	5559.505	2689
17337.991	5766.106	2531	17569.081	5690.263	2661	17786.698	5620.644	2741	17985.737	5558.443	2695
17349.689	5762.218	2697	17570.459	5689.817	2661	17795.937	5617.726	2671	17986.381	5558.244	2463
17359.688	5758.899	2092	17572.417	5689.183	2481	17797.784	5617.143	2561	17993.306	5556.105	2689
17364.914	5757.166	2290	17574.233	5688.595	2481	17801.942	5615.831	2258	17997.319	5554.866	2691
17371.139	5755.103	2697	17575.327	5688.241	2501	17803.593	5615.310	2606	17997.539	5554.798	2475
17374.677	5753.931	2138	17577.799	5687.441	2549	17809.254	5613.525	2147	17999.947	5554.055	2695
17383.466	5751.022	2518	17581.001	5686.405	2214	17809.254	5613.525	2741	18003.928	5552.827	2750
17389.831	5748.917	2245	17581.907	5686.112	2549	17810.559	5613.114	2460	18005.847	5552.235	2689
17400.585	5745.364	2504	17590.746	5683.255	2498	17810.968	5612.985	2629	18010.966	5550.657	2695
17405.356	5743.789	2506	17592.479	5682.695	2548	17822.503	5609.352	2475	18013.848	5549.769	2689
17409.493	5742.424	2416	17608.698	5677.461	2630	17822.713	5609.286	2138	18016.250	5549.029	2258
17409.888	5742.294	2504	17611.316	5676.617	2550	17827.255	5607.857	2404	18016.582	5548.927	2653
17418.165	5739.565	2405	17613.544	5675.899	2630	17835.724	5605.194	2741	18017.419	5548.669	1893
17418.511	5739.451	2476	17614.527	5675.582	2259	17836.084	5605.081	2737	18018.601	5548.305	2343
17420.836	5738.685	1437	17614.527	5675.582	2630	17836.504	5604.949	2737	18018.601	5548.305	2549
17428.125	5736.285	2137	17617.113	5674.749	2291	17839.833	5603.903	2570	18027.108	5545.687	2689
17432.286	5734.916	2244	17617.274	5674.697	2432	17843.380	5602.789	2287	18029.315	5545.008	2549
17433.644	5734.469	2550	17622.302	5673.078	2550	17844.355	5602.483	2688	18031.552	5544.320	2695
17435.940	5733.714	2269	17625.766	5671.963	2297	17845.113	5602.245	2628	18042.135	5541.068	2508
17436.274	5733.604	2418	17633.386	5669.512	2404	17845.967	5601.977	2207	18050.289	5538.565	2672
17440.609	5732.179	2548	17633.859	5669.360	2609	17845.967	5601.977	2628	18051.361	5538.236	2698
17442.255	5731.638	2536	17637.032	5668.340	1437	17852.420	5599.952	2626	18052.358	5537.930	2582
17449.050	5729.406	1892	17637.374	5668.230	2531	17855.009	5599.140	2629	18055.645	5536.922	2698

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
18057.275	5536.422	2479	18355.348	5446.516	2339	18586.421	5378.803	2533	18851.449	5303.184	2622
18057.608	5536.320	2544	18361.035	5444.829	2549	18587.956	5378.359	2607	18851.751	5303.099	2547
18058.903	5535.923	2463	18366.142	5443.315	2705	18604.120	5373.686	2460	18856.647	5301.722	1485
18061.523	5535.120	2475	18376.142	5440.353	2657	18609.921	5372.011	2628	18858.401	5301.229	2660
18065.289	5533.966	2500	18379.824	5439.263	2706	18617.358	5369.865	2581	18863.325	5299.845	2737
18073.683	5531.396	2698	18380.108	5439.179	2657	18618.364	5369.575	2705	18866.996	5298.814	2690
18075.438	5530.859	1113	18392.461	5435.526	1800	18624.194	5367.894	2290	18868.189	5298.479	2569
18084.956	5527.948	2478	18395.933	5434.500	2567	18624.194	5367.894	2403	18875.866	5296.324	2586
18090.323	5526.308	2736	18395.933	5434.500	2657	18626.908	5367.112	2544	18876.899	5296.034	2288
18090.785	5526.167	2478	18408.182	5430.884	2705	18631.007	5365.931	2584	18876.899	5296.034	2731
18092.687	5525.586	2736	18411.667	5429.856	2478	18632.500	5365.501	2535	18884.148	5294.001	2583
18093.148	5525.445	2736	18414.427	5429.042	2206	18637.638	5364.022	1800	18884.912	5293.787	2583
18096.289	5524.486	2736	18417.284	5428.200	1927	18639.083	5363.606	2605	18885.151	5293.720	2737
18098.488	5523.815	2740	18419.001	5427.694	2288	18647.288	5361.246	2571	18885.750	5293.552	2059
18098.864	5523.700	2138	18419.679	5427.494	2705	18649.386	5360.643	2290	18886.799	5293.258	2547
18102.282	5522.657	2740	18425.787	5425.695	2698	18651.258	5360.105	2628	18887.531	5293.053	2547
18102.650	5522.545	2478	18426.935	5425.357	2705	18652.813	5359.658	2296	18889.365	5292.539	2613
18104.938	5521.847	2669	18433.914	5423.303	2753	18658.000	5358.168	2583	18890.996	5292.082	2737
18108.201	5520.852	2585	18434.175	5423.226	2698	18662.803	5356.789	2583	18892.410	5291.686	2500
18116.792	5518.234	2740	18435.433	5422.856	2544	18669.533	5354.858	2726	18900.482	5289.426	2547
18117.238	5518.098	2701	18439.269	5421.728	2660	18676.889	5352.749	2517	18901.161	5289.236	1460
18117.642	5517.975	2740	18440.088	5421.487	2463	18677.779	5352.494	2289	18901.529	5289.133	2583
18127.422	5514.998	2406	18441.772	5420.992	2698	18681.870	5351.322	2584	18905.482	5288.027	2500
18128.073	5514.800	2740	18445.171	5419.993	2655	18682.858	5351.039	2696	18927.617	5281.843	1842
18131.140	5513.867	2694	18445.389	5419.929	2544	18686.706	5349.937	2292	18934.636	5279.885	1113
18133.492	5513.152	2103	18446.332	5419.652	2582	18687.562	5349.692	2705	18942.059	5277.816	1800
18137.364	5511.975	2701	18448.058	5419.145	2698	18692.946	5348.151	2685	18947.282	5276.361	2623
18142.785	5510.328	2701	18449.058	5418.851	2698	18694.012	5347.846	2705	18955.617	5274.041	2612
18147.547	5508.882	1942	18453.577	5417.524	2626	18695.033	5347.554	2705	18962.225	5272.203	2531
18155.671	5506.417	2679	18458.218	5416.162	2686	18702.472	5345.427	2503	18967.463	5270.747	2257
18156.456	5506.179	2506	18464.037	5414.455	2660	18702.472	5345.427	2506	18977.631	5267.923	2501
18160.186	5505.048	2623	18464.259	5414.390	2295	18704.110	5344.959	2696	18987.010	5265.321	1485
18160.853	5504.846	2504	18474.314	5411.443	2628	18713.353	5342.319	1252	18994.517	5263.240	2715
18169.131	5502.338	2700	18474.748	5411.316	2501	18721.269	5340.060	2609	18997.646	5262.373	2715
18179.631	5499.160	2758	18486.414	5407.901	2628	18740.448	5334.595	2270	19004.421	5260.497	2529
18188.958	5496.340	2089	18489.105	5407.114	2463	18752.055	5331.293	2624	19005.487	5260.202	2611
18189.941	5496.043	2700	18491.451	5406.428	2500	18758.241	5329.535	2136	19010.290	5258.873	529
18190.404	5495.903	2700	18492.193	5406.211	2403	18770.148	5326.154	2688	19031.961	5252.885	2291
18198.961	5493.319	2700	18492.193	5406.211	2581	18772.919	5325.368	2656	19042.492	5249.980	2478
18201.681	5492.498	2533	18492.956	5405.988	2530	18773.514	5325.199	2500	19042.492	5249.980	2535
18212.955	5489.098	2569	18496.744	5404.881	2755	18784.047	5322.213	2535	19059.282	5245.355	2683
18224.194	5485.713	2284	18497.223	5404.741	2755	18788.411	5320.977	2656	19068.003	5242.956	2502
18229.471	5484.125	2585	18511.725	5400.507	2549	18789.343	5320.713	2693	19071.848	5241.899	2059
18232.599	5483.184	2716	18511.725	5400.507	2567	18790.985	5320.248	2287	19094.903	5235.570	1362
18238.477	5481.417	2532	18514.803	5399.609	2531	18796.309	5318.741	2680	19096.501	5235.132	2205
18247.432	5478.727	2476	18517.300	5398.881	2707	18803.005	5316.847	2699	19104.128	5233.042	2132
18250.057	5477.939	2090	18520.638	5397.908	2549	18814.091	5313.714	2090	19110.054	5231.419	2293
18263.173	5474.005	2530	18523.860	5396.969	902	18814.091	5313.714	2656	19113.679	5230.427	1485
18264.133	5473.717	2652	18525.223	5396.572	2286	18814.548	5313.585	1113	19121.810	5228.203	2500
18267.023	5472.851	2298	18542.293	5391.604	2756	18818.019	5312.605	2627	19122.197	5228.097	2104
18297.136	5463.844	2609	18542.692	5391.488	2134	18818.532	5312.460	2627	19127.052	5226.770	2268
18298.251	5463.511	2546	18542.692	5391.488	2707	18820.608	5311.874	2627	19131.690	5225.503	2671
18314.546	5458.650	2408	18542.950	5391.413	2507	18821.044	5311.751	2530	19132.997	5225.146	2258
18320.010	5457.022	2137	18545.165	5390.769	2707	18821.044	5311.751	2701	19138.176	5223.732	2502
18326.115	5455.204	2257	18545.805	5390.583	2091	18822.855	5311.240	2656	19141.598	5222.798	1926
18339.267	5451.292	2502	18548.977	5389.661	2587	18827.499	5309.930	2627	19148.843	5220.822	2730
18346.126	5449.254	2549	18548.977	5389.661	2707	18828.743	5309.579	2690	19160.892	5217.539	2286
18346.971	5449.003	2147	18554.551	5388.042	2707	18841.124	5306.090	2345	19168.905	5215.358	2613
18350.871	5447.845	2535	18575.005	5382.109	2337	18846.217	5304.656	2690	19176.123	5213.395	2137
18352.370	5447.400	2549	18575.923	5381.843	2584	18847.195	5304.381	2547	19189.532	5209.752	2609
18354.169	5446.866	2089	18578.301	5381.154	2296	18850.112	5303.560	2701	19190.585	5209.466	2740
18354.169	5446.866	2536	18580.842	5380.418	2506	18850.382	5303.484	2690	19199.187	5207.132	2587

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
19202.384	5206.265	2287	19560.949	5110.831	2605	20068.127	4981.666	2727	20732.262	4822.084	2769
19207.782	5204.802	2736	19563.487	5110.168	2151	20070.270	4981.134	2605	20736.859	4821.015	2286
19208.731	5204.545	2740	19563.487	5110.168	2700	20072.100	4980.680	2136	20741.006	4820.051	2232
19212.828	5203.435	2679	19572.503	5107.814	2506	20083.160	4977.937	2149	20756.315	4816.496	2162
19216.034	5202.567	2679	19580.576	5105.708	2694	20083.915	4977.750	2110	20768.617	4813.643	2645
19219.011	5201.761	2531	19582.693	5105.156	2529	20092.060	4975.732	2529	20799.053	4806.599	1437
19219.133	5201.728	2292	19584.696	5104.634	1800	20107.914	4971.809	2735	20799.633	4806.465	2124
19219.606	5201.600	2729	19592.737	5102.539	1800	20108.990	4971.543	2739	20805.096	4805.203	2292
19220.304	5201.411	2584	19597.373	5101.332	2505	20118.285	4969.246	1972	20813.507	4803.261	1954
19228.389	5199.224	2736	19599.467	5100.787	2585	20123.529	4967.951	2735	20813.854	4803.181	2149
19231.570	5198.364	2736	19605.774	5099.146	2059	20126.405	4967.241	2611	20829.596	4799.551	2771
19232.584	5198.090	2207	19611.574	5097.638	1113	20143.060	4963.134	2296	20840.812	4796.968	2290
19233.613	5197.812	2133	19613.159	5097.226	2498	20166.326	4957.408	2739	20841.507	4796.808	2110
19241.142	5195.778	2736	19614.452	5096.890	2535	20173.415	4955.666	2499	20850.718	4794.689	2292
19258.073	5191.210	2292	19632.348	5092.244	2163	20178.395	4954.443	342	20861.169	4792.287	2771
19259.257	5190.891	2499	19635.309	5091.476	1800	20201.718	4948.723	2163	20876.438	4788.782	2687
19260.448	5190.570	1800	19639.425	5090.409	2534	20211.818	4946.250	2338	20882.229	4787.454	2604
19266.725	5188.879	2693	19643.507	5089.351	2758	20227.980	4942.298	2625	20897.773	4783.893	2058
19269.105	5188.238	2709	19657.656	5085.688	2655	20237.279	4940.027	2625	20905.582	4782.106	2611
19294.777	5181.335	1112	19660.524	5084.946	2627	20254.069	4935.932	2698	20948.099	4772.400	2344
19303.655	5178.952	2163	19664.964	5083.798	2501	20270.796	4931.859	2698	20958.639	4770.000	2608
19309.192	5177.467	2689	19670.857	5082.275	1112	20274.348	4930.995	2679	20965.324	4768.479	2292
19311.139	5176.945	2502	19685.304	5078.545	2291	20281.085	4929.357	1800	20991.046	4762.636	1485
19312.788	5176.503	2532	19693.902	5076.328	2298	20283.319	4928.814	2625	21017.608	4756.617	2689
19325.089	5173.208	2689	19698.508	5075.141	2655	20288.592	4927.533	2369	21095.406	4739.075	2344
19335.154	5170.515	1437	19707.420	5072.846	2772	20288.592	4927.533	2625	21123.871	4732.689	2288
19336.519	5170.150	2682	19708.861	5072.475	2706	20289.218	4927.381	2204	21124.473	4732.554	1941
19340.170	5169.174	2500	19711.037	5071.915	2728	20314.837	4921.167	2345	21125.036	4732.428	2498
19341.513	5168.815	2689	19720.124	5069.578	2671	20329.197	4917.691	2625	21162.034	4724.154	2625
19353.416	5165.636	2151	19733.751	5066.077	2110	20349.721	4912.731	1485	21178.169	4720.555	902
19378.010	5159.080	2689	19746.458	5062.817	2532	20363.276	4909.461	2295	21195.586	4716.676	2162
19385.375	5157.120	2136	19747.246	5062.615	1113	20372.247	4907.299	2529	21200.485	4715.586	2162
19394.005	5154.825	2528	19763.146	5058.542	2502	20405.987	4899.185	1941	21216.322	4712.066	2625
19395.085	5154.538	2695	19771.291	5056.458	2124	20443.326	4890.237	2163	21224.155	4710.327	2753
19402.892	5152.464	2581	19780.649	5054.066	2500	20473.972	4882.917	2736	21238.466	4707.153	1800
19402.892	5152.464	2608	19791.864	5051.202	1800	20486.362	4879.964	2294	21248.957	4704.829	2369
19409.172	5150.797	2607	19800.402	5049.024	1942	20498.682	4877.031	2149	21265.573	4701.153	2232
19411.090	5150.288	2695	19824.660	5042.846	1362	20528.171	4870.025	1955	21265.573	4701.153	2373
19436.035	5143.678	2690	19846.652	5037.258	2528	20563.962	4861.549	2129	21275.882	4698.875	1113
19451.846	5139.497	2606	19855.461	5035.023	2572	20574.288	4859.109	2162	21277.200	4698.584	2625
19463.616	5136.389	2627	19881.625	5028.397	2610	20584.196	4856.770	2288	21284.357	4697.004	2109
19463.950	5136.301	2535	19883.986	5027.800	2707	20586.150	4856.309	2345	21284.357	4697.004	902
19466.913	5135.519	1437	19894.737	5025.083	2586	20594.933	4854.238	1842	21338.355	4685.118	2129
19470.401	5134.599	2627	19894.737	5025.083	2707	20600.365	4852.958	2060	21361.631	4680.013	2752
19475.495	5133.256	902	19909.960	5021.241	2680	20601.609	4852.665	2149	21386.166	4674.644	2057
19477.434	5132.745	2627	19923.343	5017.868	1800	20601.609	4852.665	2684	21386.166	4674.644	2345
19477.988	5132.599	2627	19925.428	5017.343	2183	20615.212	4849.463	2529	21427.759	4665.570	2704
19484.351	5130.923	2529	19934.896	5014.960	2532	20618.788	4848.622	2706	21469.414	4656.518	2739
19490.345	5129.345	2133	19935.111	5014.906	2757	20629.271	4846.158	2529	21489.590	4652.146	2283
19490.850	5129.212	2288	19943.347	5012.835	2150	20629.697	4846.058	2284	21508.190	4648.123	2735
19497.134	5127.559	2345	19944.079	5012.651	2657	20633.286	4845.215	1926	21515.147	4646.620	1971
19504.441	5125.638	2345	19947.413	5011.813	2135	20648.705	4841.597	1437	21553.280	4638.399	2735
19504.947	5125.505	2060	19947.644	5011.755	2128	20675.284	4835.373	2135	21570.900	4634.610	2503
19507.634	5124.799	2506	19949.459	5011.299	1941	20675.698	4835.276	2204	21572.255	4634.319	2735
19509.317	5124.357	2535	19968.997	5006.396	2506	20677.358	4834.888	2293	21648.252	4618.050	1941
19511.259	5123.847	2288	19970.062	5006.129	1362	20698.313	4829.993	1800	21735.476	4599.518	2344
19533.278	5118.071	2529	19981.493	5003.265	1460	20707.921	4827.752	2638	21756.951	4594.978	2344
19540.505	5116.178	2755	20005.716	4997.207	2753	20708.608	4827.592	2769	21775.874	4590.985	1222
19540.998	5116.049	2755	20023.828	4992.687	2286	20712.653	4826.649	1941	21780.941	4589.917	2109
19547.161	5114.436	2658	20041.535	4988.276	2768	20715.035	4826.094	2499	21780.941	4589.917	2161
19548.292	5114.140	1953	20042.073	4988.142	2768	20716.954	4825.647	2286	21787.805	4588.471	2499
19548.292	5114.140	2288	20056.198	4984.629	2296	20723.138	4824.207	2603	21788.342	4588.358	2341

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
21813.981	4582.965	2162	22935.071	4358.945	1617	25099.691	3983.026	2160	27571.685	3625.920	2199
21816.571	4582.421	2767	22956.005	4354.970	1941	25170.937	3971.752	2372	27654.092	3615.115	2387
21819.980	4581.705	2767	22986.107	4349.267	1891	25380.229	3939.000	2387	27715.471	3607.109	2316
21832.989	4578.975	2767	23044.788	4338.192	2131	25442.139	3929.415	2282	27719.928	3606.529	2201
21841.160	4577.262	2162	23144.597	4319.484	2344	25516.466	3917.969	2342	27723.341	3606.085	2199
21851.376	4575.122	1362	23154.047	4317.721	2230	25574.083	3909.142	2199	27724.687	3605.910	2180
21872.809	4570.639	2130	23164.224	4315.824	1856	25576.713	3908.740	2056	27725.117	3605.854	2201
21881.000	4568.928	2231	23173.728	4314.054	2203	25686.154	3892.086	2367	27782.603	3598.393	2256
21889.532	4567.147	2150	23233.324	4302.988	2638	25697.154	3890.420	2159	27821.780	3593.326	2201
21892.327	4566.564	2058	23241.086	4301.551	2285	25699.988	3889.991	2714	27877.483	3586.146	2181
21892.327	4566.564	2130	23254.406	4299.087	2202	25776.463	3878.450	1980	27877.483	3586.146	2668
21894.998	4566.007	2344	23281.088	4294.160	2388	25828.386	3870.653	2317	27906.595	3582.405	2199
21895.611	4565.879	2055	23308.472	4289.115	1484	25858.530	3866.141	2642	27913.670	3581.497	1841
21916.131	4561.604	2373	23325.189	4286.041	2130	25875.945	3863.539	2199	27988.582	3571.911	1980
21916.520	4561.523	2130	23418.107	4269.035	1971	25890.862	3861.313	2649	28008.711	3569.344	2665
21980.334	4548.280	2129	23494.970	4255.069	1842	25925.043	3856.222	2317	28061.818	3562.589	2647
21986.386	4547.028	2768	23510.330	4252.289	2282	25973.593	3849.014	2372	28132.770	3553.604	2764
21988.804	4546.528	2768	23566.671	4242.123	2344	25991.062	3846.427	2387	28150.784	3551.330	2331
22021.755	4539.725	2363	23572.233	4241.122	2199	26082.993	3832.870	1980	28197.527	3545.443	2722
22036.798	4536.626	2725	23608.633	4234.583	2160	26101.216	3830.194	2678	28250.962	3538.737	2666
22040.272	4535.911	2640	23683.741	4221.154	1941	26222.051	3812.544	1484	28288.878	3533.994	2180
22067.039	4530.409	2752	23694.850	4219.175	1856	26343.808	3794.923	2733	28300.057	3532.598	2331
22074.913	4528.793	2368	23695.619	4219.038	2387	26369.803	3791.182	2201	28323.477	3529.677	2673
22079.867	4527.777	2162	23723.672	4214.049	2182	26372.878	3790.740	2199	28423.904	3517.206	2229
22105.503	4522.526	2230	23784.476	4203.276	1856	26390.526	3788.205	2527	28441.023	3515.089	2497
22178.165	4507.709	2161	23849.387	4191.836	2372	26442.088	3780.818	2256	28443.029	3514.841	2723
22236.067	4495.971	2125	23864.131	4189.246	2203	26454.053	3779.108	2647	28514.745	3506.001	1980
22239.045	4495.369	1953	23906.446	4181.831	2710	26464.627	3777.598	2317	28529.637	3504.171	2527
22257.107	4491.721	1856	23908.018	4181.556	2055	26473.002	3776.403	2387	28534.254	3503.604	2387
22260.179	4491.101	1856	23924.445	4178.685	2372	26494.533	3773.334	2315	28535.606	3503.438	2527
22344.445	4474.164	2131	24083.695	4151.054	2282	26498.466	3772.774	2527	28582.974	3497.632	2372
22365.686	4469.915	1842	24128.493	4143.347	1223	26571.586	3762.392	1980	28592.899	3496.418	2662
22375.181	4468.018	2231	24143.311	4140.804	2767	26617.848	3755.853	1484	28593.299	3496.369	2387
22380.797	4466.897	1856	24144.868	4140.537	2767	26627.830	3754.445	2159	28606.317	3494.778	2676
22385.106	4466.037	1941	24264.286	4120.159	2372	26659.187	3750.029	1484	28620.173	3493.086	2641
22392.868	4464.489	1856	24333.481	4108.443	1484	26668.894	3748.664	2372	28678.473	3485.985	2673
22413.643	4460.351	2704	24374.369	4101.551	2372	26670.865	3748.387	2678	28699.994	3483.371	2497
22415.834	4459.915	2639	24378.340	4100.883	2317	26794.667	3731.068	2280	28717.265	3481.276	2664
22419.981	4459.090	2344	24421.777	4093.589	1941	26803.805	3729.796	2317	28742.554	3478.213	2497
22425.387	4458.015	2056	24455.686	4087.913	2372	26825.504	3726.779	2711	28746.216	3477.770	2527
22473.278	4448.515	2344	24483.668	4083.241	2316	26841.983	3724.491	2199	28809.853	3470.088	2021
22493.671	4444.482	2231	24487.669	4082.574	1856	26872.842	3720.214	2201	28823.949	3468.391	2431
22502.247	4442.788	1953	24547.953	4072.548	2372	26877.892	3719.515	2648	28826.035	3468.140	2673
22505.231	4442.199	2060	24552.011	4071.875	2199	26897.077	3716.862	2256	28845.132	3465.844	2675
22551.993	4432.988	2231	24556.564	4071.120	2201	26942.911	3710.539	2387	28866.812	3463.241	2497
22558.023	4431.803	2373	24640.099	4057.318	2734	26952.536	3709.214	2641	28933.263	3455.287	1980
22578.891	4427.707	2373	24648.422	4055.948	2372	26956.540	3708.663	1683	29011.870	3445.925	2051
22619.837	4419.692	1856	24715.562	4044.930	2751	27002.920	3702.293	2158	29022.170	3444.702	2497
22684.518	4407.090	2182	24725.667	4043.277	1856	27029.356	3698.672	2201	29043.628	3442.157	2602
22702.409	4403.617	2200	24729.104	4042.715	2372	27033.559	3698.097	2648	29116.797	3433.507	2643
22735.028	4397.299	2130	24736.489	4041.508	2649	27074.382	3692.521	2666	29120.715	3433.045	2713
22738.984	4396.534	1952	24771.991	4035.716	2766	27144.638	3682.964	2242	29176.833	3426.442	1841
22740.437	4396.253	2344	24798.973	4031.325	2766	27155.941	3681.431	2229	29306.214	3411.315	2747
22770.343	4390.479	2770	24859.010	4021.589	2766	27188.008	3677.089	2677	29375.465	3403.273	2527
22792.256	4386.258	1971	24884.237	4017.512	2766	27212.407	3673.792	2317	29425.908	3397.439	1484
22794.678	4385.792	2770	24923.686	4011.153	2199	27219.668	3672.812	2747	29456.948	3393.859	2662
22798.363	4385.083	2130	24942.291	4008.161	2281	27262.037	3667.104	2765	29555.065	3382.592	1841
22812.592	4382.348	2162	24971.311	4003.503	2199	27325.748	3658.554	2662	29612.669	3376.012	2662
22832.364	4378.553	1856	25072.428	3987.357	2202	27327.421	3658.330	2021	29637.004	3373.240	2677
22845.935	4375.952	2199	25091.847	3984.271	2372	27335.491	3657.250	1683	29707.352	3365.252	2254
22859.512	4373.353	1891	25097.101	3983.437	2201	27474.824	3638.703	2199	29717.658	3364.085	2527
22882.508	4368.958	2182	25097.731	3983.337	2387	27483.790	3637.516	2313	29746.334	3360.842	2602

TABLE 4—Continued

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
29755.471	3359.810	2497	34160.609	2926.550	2543	36410.999	2745.674	2523	38922.766	2568.490	2781
29840.414	3350.246	1683	34174.342	2925.374	2719	36443.558	2743.221	2050	38922.766	2568.490	2781
30232.899	3306.753	2497	34224.918	2921.051	2054	36467.939	2741.387	1841	38926.039	2568.274	2783
30236.940	3306.311	2527	34236.709	2920.045	2602	36476.588	2740.737	2744	38926.039	2568.274	2783
30257.229	3304.094	2673	34259.177	2918.130	2309	36592.785	2732.034	2311	38926.964	2568.213	2782
30390.736	3289.579	2053	34274.446	2916.830	2253	36664.126	2726.718	2720	38929.420	2568.051	2782
30480.243	3279.919	2602	34319.038	2913.040	2050	36781.740	2717.999	1251	38929.420	2568.051	2782
30540.404	3273.458	1484	34354.194	2910.059	2255	36799.951	2716.654	2311	38931.375	2567.922	2782
30732.575	3252.989	2051	34354.938	2909.996	2252	36956.830	2705.122	2525	38931.830	2567.892	2783
30732.575	3252.989	2662	34376.083	2908.206	2773	37034.290	2699.464	1459	38932.785	2567.829	2782
30801.099	3245.752	2497	34376.083	2908.206	2780	37049.305	2698.370	2310	38935.014	2567.682	2782
30824.281	3243.311	2054	34395.776	2906.541	2457	37081.104	2696.056	1778	38935.969	2567.619	2782
30905.095	3234.830	2527	34404.476	2905.806	2719	37098.621	2694.783	2053	38938.002	2567.485	2782
30974.938	3227.536	1841	34411.001	2905.255	2053	37120.868	2693.168	2637	38941.642	2567.245	2782
31127.192	3211.749	2005	34414.365	2904.971	2051	37148.828	2691.141	2311	38942.218	2567.207	2781
31290.124	3195.025	2602	34432.500	2903.441	2252	37186.814	2688.392	2267	38950.502	2566.661	2785
31345.476	3189.383	2602	34495.647	2898.126	2543	37492.808	2666.451	2637	38951.549	2566.592	2785
31415.007	3182.324	2314	34545.652	2893.931	1483	37544.031	2662.813	2525	38952.035	2566.560	2783
31415.609	3182.263	2054	34558.214	2892.879	2415	37589.868	2659.566	2745	38952.035	2566.560	2785
31415.609	3182.263	2309	34571.706	2891.750	2267	37664.558	2654.292	2053	38952.612	2566.522	2781
31462.522	3177.518	2051	34660.186	2884.368	1616	37801.534	2644.674	2312	38955.222	2566.350	2785
31474.567	3176.302	2678	34760.502	2876.044	2749	37973.260	2632.714	2053	38964.727	2565.724	2457
31505.375	3173.196	2254	34849.903	2868.666	2051	37984.139	2631.960	2743	38964.727	2565.724	2782
31509.118	3172.819	2602	34872.332	2866.821	2712	37984.889	2631.908	2050	38964.727	2565.724	2782
31550.306	3168.677	2764	34917.312	2863.128	2746	38000.440	2630.831	2457	38966.473	2565.609	2782
31616.949	3161.998	2675	34943.393	2860.991	2524	38048.542	2627.505	2520	38968.220	2565.494	2782
31649.900	3158.706	2647	34945.445	2860.823	2497	38142.392	2621.040	2663	38970.605	2565.337	2782
31661.548	3157.544	2052	34979.032	2858.076	2703	38196.895	2617.300	1361	38970.605	2565.337	2784
31704.553	3153.261	2641	34984.944	2857.593	2493	38339.146	2607.589	2746	38972.124	2565.237	2781
31727.745	3150.956	2719	34996.505	2856.649	2253	38373.302	2605.268	2521	38979.220	2564.770	2782
31888.079	3135.113	2052	35015.026	2855.138	2673	38651.041	2586.547	2336	38979.220	2564.770	2785
32057.862	3118.509	2527	35084.541	2849.481	2775	38711.056	2582.537	2745	38992.143	2563.920	2782
32106.116	3113.822	2241	35094.886	2848.641	2543	38713.350	2582.384	2781	38993.162	2563.853	2782
32165.420	3108.081	2496	35120.247	2846.584	2775	38734.184	2580.995	2781	38994.348	2563.775	2783
32221.048	3102.715	2241	35170.211	2842.540	2774	38737.936	2580.745	2781	38994.348	2563.775	2784
32227.270	3102.116	2053	35183.678	2841.452	2051	38767.213	2578.796	2781	38996.234	2563.651	2783
32272.639	3097.755	2253	35260.106	2835.293	2748	38770.957	2578.547	2781	38998.060	2563.531	2783
32389.021	3086.624	2664	35261.275	2835.199	2310	38792.079	2577.143	2781	38999.809	2563.416	2783
32411.062	3084.525	2714	35331.422	2829.570	2053	38800.857	2576.560	2781	39015.943	2562.356	2783
32414.750	3084.174	2667	35359.027	2827.361	2542	38803.838	2576.362	2781	39015.943	2562.356	2783
32653.774	3061.598	2051	35359.027	2827.361	2776	38816.509	2575.521	2781	39019.597	2562.116	2783
32782.437	3049.582	2253	35412.207	2823.115	2430	38821.830	2575.168	2781	39020.176	2562.078	2782
32798.279	3048.109	2526	35424.567	2822.130	2710	38824.951	2574.961	2781	39020.176	2562.078	2783
32836.846	3044.529	2662	35457.824	2819.483	2777	38827.831	2574.770	2781	39023.740	2561.844	2456
32971.895	3032.059	2310	35465.019	2818.911	2674	38850.238	2573.285	2783	39054.641	2559.817	2781
33004.115	3029.099	2673	35527.355	2813.965	1360	38852.397	2573.142	2781	39059.738	2559.483	2784
33064.981	3023.523	2724	35690.080	2801.135	1925	38856.338	2572.881	2784	39081.542	2558.055	2781
33108.673	3019.533	2253	35762.176	2795.488	2054	38865.916	2572.247	2783	39089.305	2557.547	2781
33486.508	2985.463	2314	35780.082	2794.089	2779	38872.353	2571.821	2783	39089.305	2557.547	2781
33506.777	2983.657	2749	35844.713	2789.051	2051	38873.578	2571.740	2784	39098.462	2556.948	2781
33514.371	2982.981	2005	35844.713	2789.051	2779	38882.483	2571.151	2782	39098.462	2556.948	2781
33542.899	2980.444	2252	35859.640	2787.890	2602	38882.483	2571.151	2783	39101.873	2556.725	2784
33546.005	2980.168	2253	35891.246	2785.435	2744	38884.615	2571.010	2782	39113.040	2555.995	2781
33547.761	2980.012	2719	35952.142	2780.717	2053	38891.589	2570.549	2781	39116.285	2555.783	2781
33730.596	2963.859	2474	35997.049	2777.248	1360	38891.589	2570.549	2783	39119.713	2555.559	2784
33741.730	2962.881	2021	36040.860	2773.872	2253	38895.160	2570.313	2782	39147.838	2553.723	2781
33817.609	2956.233	1841	36173.734	2763.683	2744	38898.202	2570.112	2783	39166.780	2552.488	2781
33820.320	2955.996	2053	36178.080	2763.351	2526	38899.579	2570.021	2782	39166.780	2552.488	2781
33841.844	2954.116	2473	36198.109	2761.822	2021	38903.484	2569.763	2782	39227.146	2548.560	2781
34001.763	2940.222	2721	36296.070	2754.368	2778	38905.528	2569.628	2782	39238.555	2547.819	2523
34122.809	2929.792	2714	36310.070	2753.306	2540	38910.571	2569.295	2782	39245.132	2547.392	2781
34123.799	2929.707	2662	36343.320	2750.787	2052	38914.933	2569.007	2782	39245.132	2547.392	2781

TABLE 4—*Continued*

λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{vac} (Å)	σ (cm ⁻¹)	No.	λ_{air} (Å)	σ (cm ⁻¹)	No.
39256.551	2546.651	2781	40894.582	2444.645	2520	43817.193	2281.587	2762	46281.897	2160.083	2472
39274.996	2545.455	2781	40938.575	2442.018	2636	43932.609	2275.593	2759	46370.383	2155.961	2761
39274.996	2545.455	2781	40998.880	2438.426	2541	43944.292	2274.988	2621	46445.309	2152.483	2492
39497.180	2531.136	2523	41000.326	2438.340	2761	44099.562	2266.978	2762	46526.106	2148.745	2543
39535.042	2528.712	2050	41042.339	2435.844	2763	44101.391	2266.884	2761	46749.285	2138.487	2491
39535.042	2528.712	2743	41364.908	2416.849	2744	44384.353	2252.432	2762	47135.652	2120.958	2495
39536.965	2528.589	1925	41507.936	2408.521	2760	44613.817	2240.847	2761	47336.361	2111.965	2742
39555.816	2527.384	2662	41761.154	2393.917	1841	44655.227	2238.769	1778	47377.593	2110.127	2762
39850.351	2508.704	2312	41794.657	2391.998	2742	44883.577	2227.379	2761	47482.228	2105.477	1435
39859.789	2508.110	2779	41804.392	2391.441	2763	45192.853	2212.136	2049	47603.074	2100.132	2733
39900.101	2505.576	1483	41989.120	2380.920	2456	45243.555	2209.657	2761	47972.392	2083.964	2522
39933.539	2503.478	2719	42036.897	2378.214	2743	45290.718	2207.356	2522	48087.976	2078.955	1458
39944.356	2502.800	1436	42397.619	2357.980	2494	45337.959	2205.056	2523	48098.110	2078.517	2521
39983.161	2500.371	1778	42454.026	2354.847	1483	45368.059	2203.593	2621	48665.467	2054.285	2620
40252.409	2483.646	2744	42506.789	2351.924	2743	45391.130	2202.473	2663	48894.626	2044.657	2490
40487.823	2469.205	2521	42913.955	2329.609	1361	45422.126	2200.970	2520	48914.267	2043.836	2048
40487.823	2469.205	2666	42992.000	2325.380	2760	45452.194	2199.514	2761	49192.404	2032.280	2520
40637.292	2460.123	2743	43060.664	2321.672	2742	45454.385	2199.408	2541	49246.660	2030.041	264
40696.381	2456.551	2311	43101.506	2319.472	2742	45509.114	2196.763	2637	49416.572	2023.061	2759
40807.763	2449.846	2474	43202.216	2314.065	1483	45579.493	2193.371	1778	49681.845	2012.259	264
40833.081	2448.327	1360	43378.011	2304.687	2521	45802.830	2182.676	1778			
40841.622	2447.815	2312	43396.539	2303.703	2762	46190.247	2164.369	2491			
40847.930	2447.437	2494	43743.226	2285.445	2541	46238.015	2162.133	2759			