

The most satisfactory elements yet found are

1886 Oct. 13^d 14^h 20^m Greenw. M.T. +15^d 14^h 24^m E.

Approximate duration of increase, 5.6 days.
 " " decrease, 10.0 "

The comparison with these elements is given in the column (O—C).

The comparison-stars used, are

Cambridge, 1887 December 9.

	1855.0	L
a	20 ^h 23 ^m 48 ^s +35 58.5	15
b	20 36 43 34 56.4	10
d	20 34 16 34 52.5	7
f	20 35 9 34 31.4	6

where the values of L are of a very provisional character. The maximum brilliancy of the variable is ordinarily about 6^m.4; the minimum brilliancy ranges from 7^m.2 to 7^m.7.

OBSERVATIONS OF THE TWO HUNDRED SEVENTY-FIRST ASTEROID,

MADE AT THE U. S. NAVAL OBSERVATORY WITH THE 9.6 INCH EQUATORIAL,

BY PROF. EDGAR FRISBY.

(Communicated by the Superintendent.)

1887 Washington M.T.	*	No. Comp.	Planet—*		Planet's apparent		log $p \Delta$	
			Δa	$\Delta \delta$	a	δ	for a	for δ
Oct. 21	^h 9 ^m 48 ^s 55.2	1	^m 20 ^s , 3	+1 ['] 59 ["] 26 —0 ['] 18.2	^h 1 ^m 8 ^s 25.39	+11 ^o 40 ['] 55.4	$n9.187$	$''0.612$
22	9 29 38.6	1	+1 12.41	—4 15.5	1 7 38.55	+11 36 58.1	$n9.269$	0.617

Mean Place for 1887.0 of Comparison-Star.

*	a	Red. to app. place	δ	Red. to app. place	Authority
1	1 ^h 6 ^m 23.13	+3.00	+11° 40' 57.1	+16.5	Grant 287

ERRORS IN SHORTREDE'S LOGARITHM-TABLES.

To those who use SHORTREDE'S tables of logarithm sines, tangents, etc., it may be useful to know of the following typographical errors found:

Page 27. In table of Prop. parts, under 17' 50".2, for 196 read 186.

Page 535. $\cos 39^\circ 47' 37''$, for 3619 read 5619.

The latter error was discovered and reported to the Coast Survey Office, and to Prof. GEORGE DAVIDSON in January, 1870; also to the London publishers. The former has lately been found,—both by

JAMES S. LAWSON, Asst. C. and G. Survey.

San Francisco, Cal., 1887 November 25.

CORRIGENDA IN No. 163.

- Page 146. Eq. 3, second term, transfer r''^2 from denominator to numerator.
 147. " 13, fourth line, first term, read $\cos(2n't-2n''t-\omega'+\omega'')$.
 " " second line, the numerators of all but the first of the inferior indices should be 5.
 " " 16, third line, the numerators of all the inferior indices should be 7.
 148. " 17, first line, for mr put $m'r^2$.
 " " 23, second line, second term, for n'' put A_2 in the coefficient.

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