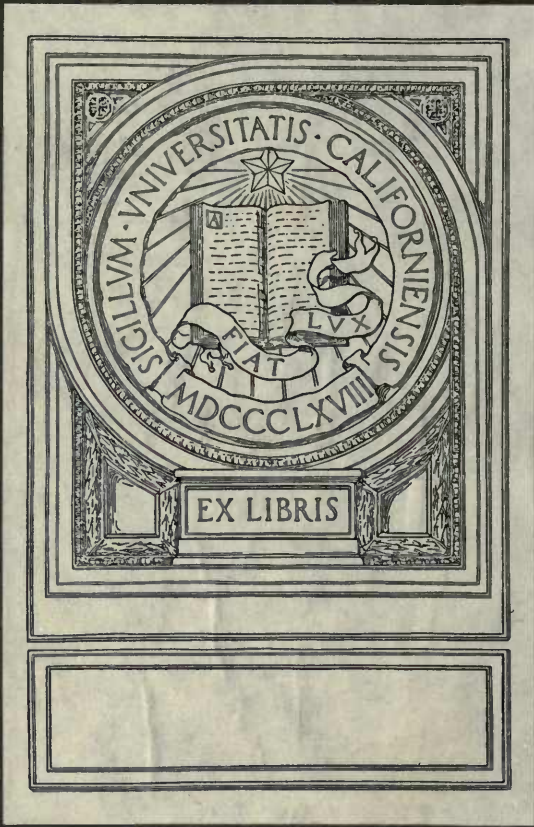


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ALMANAC CATALOGUE

OF
UNIV. OF
CALIFORNIA

ZODIACAL STARS.

Hill

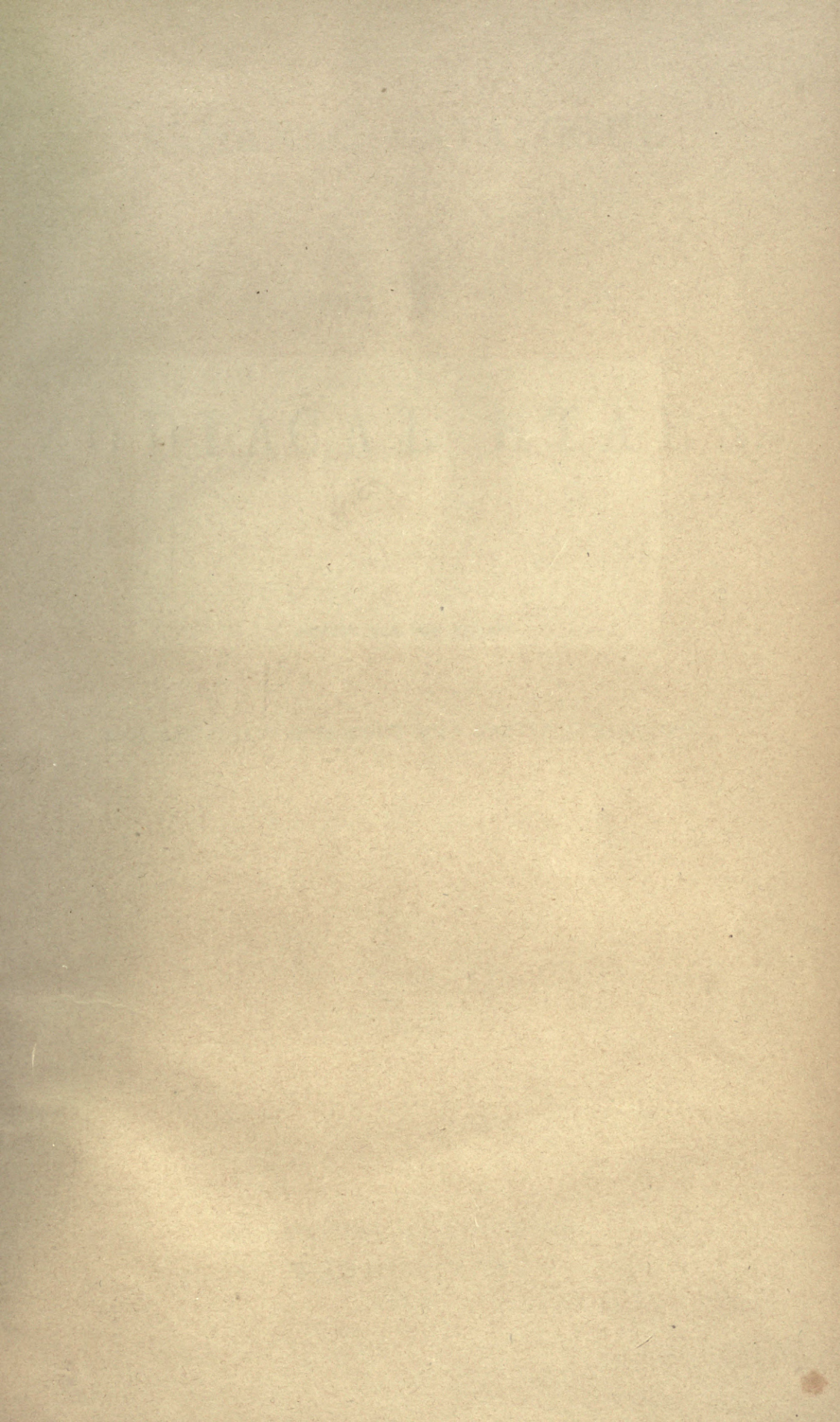
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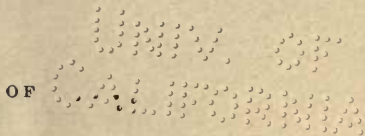


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BUREAU OF NAVIGATION,
WASHINGTON.
1864.



ALMANAC CATALOGUE



ZODIACAL STARS.

PRINTED FOR THE USE OF

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U. S. Nautical Almanac Office

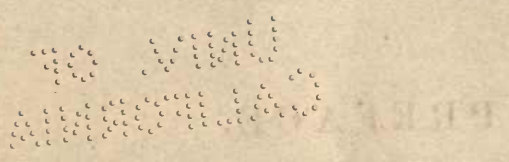


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UNIVERSITY CATALOGUE



UNIVERSITY PRESS:
WELCH, BIGELOW, AND COMPANY,
CAMBRIDGE.

2096

P R E F A C E.

THE Almanac Catalogue of Zodiacal Stars has been prepared and published under the direction of the Bureau of Navigation, Navy Department.

The selection and arrangement of the stars was made by MR. JOHN DOWNES, Assistant Nautical Almanac.

The Catalogue contains all the stars, to the $6\frac{1}{2}$ magnitude inclusive, which, from their positions, are liable to be occulted by the moon: stars of the smaller magnitudes belonging to important clusters are also included. It embraces a zone extending to eight degrees of latitude on each side of the ecliptic; and consequently contains many stars which do not come within the limits of occultation, but which, from their proximity to the moon's path, may be required for moon-culminations.

A large proportion of the stars belonging to clusters have been selected from authorities which do not give the constants of reduction to apparent places. The constants, in these cases, have been computed by the formula given in the Introduction.

These computations, as well as the reductions to a common epoch, have been made in the Nautical Almanac Office, by MR. G. W. HILL, under the direction of the Superintendent, who has conducted the work through the press.

Nautical Almanac Office,
Cambridge, Mass., Feb. 11, 1864.



ZODIACAL STARS.

INTRODUCTION.

THE present catalogue has been prepared with a view to facilitating the computer's labor in some of the departments of the American Ephemeris and Nautical Almanac Office; especially in the preparation of the lists of occultations, and in the selection of stars proper to be observed in connection with the moon's transit. Another object has been to furnish a catalogue which, from its size and cheapness, will be more accessible to computers than the larger and more expensive catalogues, which are rarely to be met with excepting in the libraries connected with scientific associations. Of these, the catalogue in most general use in this country is that of the British Association, — a heavy quarto, which comes to us at a price which many computers cannot well afford to pay. The present catalogue, which will answer every purpose equally well with the more costly works in the reduction of occultations and moon-culminations, forms a handy little pamphlet which can be freely circulated among computers at a very trifling expense. Another advantage of the small cost and size of the work is, that new editions can be issued at short intervals, with such corrections of the stars' places as may be derived from new observations.

The places of the stars have been derived from the following authorities. Wherever they are found in the Greenwich *Twelve-Year Catalogue*, their mean right ascensions and declinations have been reduced to the epoch 1850 from that work. As this catalogue consists of two distinct catalogues, giving for the same star, in most cases, different places, as deduced from an unequal number of observations, weights proportionate to the number of observations in each were allowed in combining the results. Whenever, as was frequently the case, one of the coördinates was wanting, its place was supplied from the *British Association Catalogue*, which was the one used next in order of preference. With the exception of the places derived from the *Twelve-Year Catalogue*, and those of the smaller stars grouped in clusters, most of the places were taken from this (*The British Association Catalogue*), as were also the precessions, secular variations, and proper motions used in reducing the places from the *Twelve-Year Catalogue*. In some cases, however, where the stars' places were given only approximately, or where they rest only on the authority of LACAILLE, the places have been determined from *Oeltzen's Argelander's Southern Zones*.

The stars of the Pleiades group, not found in the *Twelve-Year Catalogue*, have been reduced from BESSEL'S places, given in the *Astronomische Untersuchungen*, Band I. All the stars quoted by the numbers of RUMKER and LALANDE, and the hour and number of WEISSE, are reduced from these respective authorities. Wherever the precessions and secular variations have not been given, they have been computed for this work. All stars, to the $6\frac{1}{2}$ magnitude, and situated within eight degrees of the ecliptic, are supposed to be given in this catalogue. In general, stars smaller than those of the $6\frac{1}{2}$ magnitude are not given. It is only where they are grouped in clusters, as in the Pleiades, Hyades, and a few smaller groups,

that the smaller stars are included. In these cases they are given to the 9th or 10th magnitude. In some instances, the more interesting multiple stars are also given to the smaller magnitudes.

Mean Places of the Stars.

The mean right ascensions and declinations of the stars are given in this catalogue for the epoch 1850. For any other time, these coördinates may be computed by means of the annual variations which are given for each star. These variations are composed of the annual precessions and proper motions. In most catalogues the precession and proper motion are treated separately in the reductions. As the precessions are themselves variable quantities, they will sometimes require correction for the secular variation, which is the variation of precession in one hundred years. The combined precession and proper motion being affected by the same variation, and nearly in the same degree (the only difference being the very slight change which takes place in the proper motion), the annual variations will require the same corrections.

Denoting by t_0 , the epoch of the catalogue,
 t , the time for which the mean place is required,
 v , the annual variation in right ascension,
 Δp , its secular variation,
 v' , the annual variation in declination,
 $\Delta p'$, its secular variation,

then $t-t_0$ will be the interval for which the whole variation must be computed, and that value of the annual variation must be employed which corresponds to the middle of this interval. Or, denoting by v_0 the annual variation for the epoch t_0 , we must take

$$v = v_0 + \frac{\Delta p}{200} (t - t_0)$$

$$v' = v'_0 + \frac{\Delta p'}{200} (t - t_0).$$

Then, denoting by

a_0 the mean right ascension at the epoch t_0 ,
 a " " " " time t ,
 δ_0 " declination at the epoch t_0 ,
 δ " " " " time t ,

we shall have

$$a = a_0 + v (t - t_0)$$

$$\delta = \delta_0 + v' (t - t_0).$$

EXAMPLE. Let the mean right ascension and declination of 32 Tauri, star No. 174, be required for the beginning of the year 1864.

Taking $a_0, \delta_0, v_0, v'_0, \Delta p, \Delta p'$ from the catalogue, we have

	a_0	v_0	Δp		δ_0	v'_0	$\Delta p'$
	3 48 0.77	+ 3.531	+ 0.0145		+ 22 2 32.0	+ 10.78	- 0.431
1864-1850,	$t - t_0$	+ 14.			$t - t_0$	+ 14.	
$\Delta p (t - t_0) \div 200,$	(1)	+ 0.001		$\Delta p' (t - t_0) \div 200,$	(1)'	- 0.03	
$v_0 + (1)$	v	+ 3.532		$v'_0 + (1)'$,	v'	+ 10.75	
	$v (t - t_0)$	+ 49.45			$v' (t - t_0)$	+ 2 30.5	
$a_0 + v (t - t_0)$	a	3 48 50.22		$\delta_0 + v' (t - t_0),$	δ	+ 22 5 2.5	

Apparent Places of the Stars.

When a star's mean place has been computed for the beginning of the year, the apparent place for any time, τ , within the year can be computed by the method which BESSEL has given in his *Tabulæ Regiomontanæ*, from the logarithms of the constants $a, b, c, d, a', b', c', d'$, given for each star in the catalogue, and the logarithms of A, B, C, D , given in the *Nautical Almanac* for every day in the year.

Let a' be the apparent right ascension, δ' the apparent declination, μ the proper motion in right ascension, μ' the proper motion in declination, and τ the fraction of the year corresponding to a given date, and we shall have

$$\left. \begin{aligned} x &= Aa + Bb + Cc + Dd + \frac{1}{15}E + \tau\mu \\ x' &= Aa' + Bb' + Cc' + Dd' + \tau\mu' \end{aligned} \right\} (A)$$

for which the logarithms of A, B, C, D , and the residual E , must be taken for the given date. The value of $\frac{1}{15}E$ can never exceed $0^{\circ}.0034$, and can seldom be required. Then

$$\begin{aligned} a' &= a + x \\ \delta' &= \delta + x' \end{aligned}$$

In consequence of an interchange of letters which has been made in the notation of BESSEL'S formulæ by the late English astronomer BAILY, it will be necessary, in order that the computer may not be misled, to give the formulæ for computing $A, B, C, D, a, b, c, d, a', b', c', d'$. The arrangement of the letters is according to BESSEL'S notation.

$$A = \tau - 0.34236 \sin \Omega + 0.00410 \sin 2 \Omega - 0.02519 \sin 2 \odot + 0.00294 \sin (\odot + 82^{\circ} 34').$$

$$B = -9''.2235 \cos \Omega + 0''.0896 \cos 2 \Omega - 0''.5508 \cos 2 \odot - 0''.0093 \cos (\odot + 280^{\circ} 21').$$

$$C = -20''.4451 \cos \omega \cos \odot.$$

$$D = -20''.4451 \sin \odot.$$

$$E = -0''.0483 \sin \Omega + 0''.0015 \sin 2 \Omega - 0''.0035 \sin 2 \odot.$$

$$a = 3^{\circ}.07201 + 1^{\circ}.33701 \sin a \tan \delta.$$

$$b = \frac{1}{15} \cos a \tan \delta.$$

$$c = \frac{1}{15} \cos a \sec \delta.$$

$$d = \frac{1}{15} \sin a \sec \delta.$$

$$a' = 20''.0551 \cos a.$$

$$b' = -\sin a.$$

$$c' = \tan \omega \cos \delta - \sin a \sin \delta.$$

$$d' = \cos a \sin \delta.$$

μ = the annual proper motion in right ascension.

μ' = the annual proper motion in declination.

τ = the time reckoned from the moment when the sun's mean longitude was 280° , as expressed in fractional parts of a tropical year.

\odot = the sun's true longitude.

Ω = the longitude of the moon's ascending node.

ω = the obliquity of the ecliptic.

a = the star's mean right ascension for the beginning of the year.

δ = the star's mean declination for the beginning of the year.

a' = the star's apparent right ascension at the time τ .

δ' = the star's apparent declination at the time τ .

In BAILY'S notation BESSEL'S A is replaced by C , B by D , C by A , and D by B ; the letters $a, b, c, d, a', b', c', d'$, being interchanged in the same manner, to the no small inconvenience of the computer, who, whenever he employs an unfamiliar catalogue, or an unfamiliar ephemeris, must first consult the special formulæ to ascertain how the $a, b, c, d, a', b', c', d'$, of the former are to be combined with the A, B, C, D of the latter.* This notation is employed in the *British Nautical Almanac* and the *British Association Catalogue*, and more recently in the *Connaissance des Temps*. It is also employed in the *American Ephemeris* from its commencement to the year 1864, inclusive. In making some changes in the *American Ephemeris* for future years, commencing with 1865, it has been very properly decided to give the notation as BESSEL gave it.

The computer will therefore bear in mind, that, for years previous to 1865, in the use of the *American Ephemeris* with the present catalogue, BAILY'S notation must be employed. The same notation must also be adopted for the British and French Ephemerides. Instead of equations (A), therefore, we must use

$$\left. \begin{aligned} x &= Ca + Db + Ac + Bd + \tau\mu \\ x' &= Ca' + Db' + Ac' + Bd' + \tau\mu' \end{aligned} \right\} \text{(B)}$$

With the American Ephemeris after 1864, the *Astronomisches Jahrbuch*, Berlin, the *Almanaque Nautico*, Cadiz, and probably other European Ephemerides, equations (A) must be employed.

The logarithms of A, B, C, D are given in the *American Ephemeris* for the Washington mean midnight of every day of the year. Where great precision is necessary, and the time for which the star's place is required, differs by several hours from Washington mean midnight, it may be necessary to interpolate between the values of logs A, B, C, D for the given date and those of the preceding or following date.

Arrangement of the Articles of the Catalogue.

The *first* column of the left-hand page contains the number of the star as referred to this catalogue.

The *second* column contains the stars' names arranged in the order of their right ascensions. Whenever no name is given, the name of the constellation, or of the catalogue from which the star's elements were taken, is given.

The *third* column contains the star's magnitude, generally as given in the authorities which have furnished the other elements.

The *fourth* column contains the star's mean right ascension referred to the epoch 1850.

The *fifth* column contains the annual variation of the star's right ascension. This variation is composed of the star's geometrical annual precession in right ascension and its annual proper motion in right ascension.

The *sixth* column contains the secular variation of the precession in right ascension, and consequently of the annual variation; and represents the change which takes place in this element in one hundred years.

The *seventh* column contains the star's annual proper motion in right ascension, or the annual change which takes place in the star's right ascension independently of the geometrical precession.

* We regret this derangement of BESSEL'S notation the more, when we consider the slight grounds on which it was made. BAILY'S reasons for the change are given in the following note from the *British Association Catalogue*: "It may be proper here to state, that, in the choice of characters to represent different quantities, I have thought it desirable that we should as much as possible make them serve the purpose of an artificial memory. It is on this account that I have made A, B represent the quantity by which the Aberration is determined; C , the quantity by which precession is determined; and D the quantity by which the Deviation, or (as it is now more generally called) the nutation, is determined." — *B. A. C.*, page 34.

The four next columns, *eighth* to *eleventh* inclusive, contain corresponding elements of the star's declination.

In the *first* column of the right-hand page the ordinal numbers are repeated to prevent mistaking the line corresponding to that of the star on the left-hand page.

The following eight columns, from the *second* to the *ninth* inclusive, contain the logarithms of *a, b, c, d, a', b', c', d'*, for computing the star's apparent place for any day, as explained on page v.

The *tenth* and *eleventh* columns contain reference numbers to the *British Association* and *Twelve-Year Catalogues*.

Examples of Reduction.

EXAMPLE 1. To compute the apparent right ascension and declination of ϕ Aquarii, star No. 1043 for October 30, 1865.

$$t - t_0 = 15 \qquad \tau = \frac{5}{8} \text{ year.}$$

See formula, p. iv.,	$a_0 \overset{\text{h}}{23} \overset{\text{m}}{6} \overset{\text{s}}{33.14}$	$\delta_0 - 6^\circ 51' 24.3''$
	$v_0 + 3.114$	$v'_0 + 19.35$
	$\Delta p - 0.0065$	$\Delta p' + 0.105$
	$\mu + 0.006$	$\mu' - 0.16$
	$v + 3.114$	$v' + 19.36$
	$(t - t_0)v + 46.710$	$(t - t_0)v' + 4 50.40$
	$a \overset{\text{h}}{23} \overset{\text{m}}{7} \overset{\text{s}}{19.850}$	$\delta - 6^\circ 46' 33.90''$

For 1865, equations (A).

logs <i>a, b, c, d</i> + 0.4925	- 7.8921	+ 8.8151	- 8.1908
logs <i>A, B, C, D</i> + 9.9661	+ 0.9348	+ 1.1707	+ 1.0982
logs <i>a', b', c', d'</i> + 1.2903	+ 9.3638	+ 9.6056	- 9.0650
logs <i>Aa, Bb, Cc, Dd</i> + 0.4586	- 8.8269	+ 9.9858	- 9.2890
logs <i>Aa', Bb', Cc', Dd'</i> + 1.2564	+ 0.2986	+ 0.7763	- 0.1632
$Aa + 2.874$		$Aa' + 18.05$	
$Bb - 0.067$		$Bb' + 1.99$	
$Cc + 0.968$		$Cc' + 5.97$	
$Dd - 0.194$		$Dd' - 1.46$	
$\tau\mu + 0.005$		$\tau\mu' - 0.13$	
$Aa + Bb + Cc + Dd + \tau\mu, x + 3.586$		$Aa' + Bb' + Cc' + Dd' + \tau\mu', x' + 24.42$	
$a + x,$	$a' \overset{\text{h}}{23} \overset{\text{m}}{7} \overset{\text{s}}{23.44}$	$\delta + x',$	$\delta' - 6^\circ 46' 9.5''$

EXAMPLE 2. To compute the apparent right ascension and declination of A' Ophiuchi, star No. 790, for July 1, 1864.

$$t - t_0 = 14. \qquad \tau = \frac{1}{2} \text{ year.}$$

$a_0 \overset{\text{h}}{17} \overset{\text{m}}{6} \overset{\text{s}}{7.65}$	$\delta_0 - 26^\circ 22' 37.3''$
$v_0 + 3.683$	$v'_0 - 5.81$
$\Delta p + 0.0079$	$\Delta p' + 0.527$
$\mu - 0.032$	$\mu' - 1.14$
$v + 3.684$	$v' - 5.77$
$(t - t_0)v + 51.576$	$(t - t_0)v' - 1 20.78$
$a \overset{\text{h}}{17} \overset{\text{m}}{6} \overset{\text{s}}{59.226}$	$\delta - 26^\circ 23' 58.08''$

INTRODUCTION.

For 1864, equations (B).

logs a, b, c, d	+ 0.5700	+ 7.8864	— 8.2388	— 8.8595
logs C, D, A, B	+ 9.8797	+ 0.8412	+ 0.5339	— 1.3032
logs a', b', c', d'	— 0.6694	+ 9.9879	— 8.6365	+ 9.0148
logs Ca, Db, Ac, Bd	+ 0.4497	+ 8.7276	— 8.7727	+ 0.1627
logs Ca', Db', Ac', Bd'	— 0.5491	+ 0.8291	— 9.1704	— 0.3180
Ca	+ 2.816 ^s			Ca' — 3.54
Db	+ 0.053			Db' + 6.75
Ac	— 0.059			Ac' — 0.15
Bd	+ 1.454			Bd' — 2.08
$\tau\mu$	— 0.016			$\tau\mu'$ — 0.57
x	+ 4.248			x' + 0.41
α'	17 ^h 7 ^m 3.474 ^s			δ — 26° 23' 57.67"

During the present year a survey of the cluster Præsepe in the constellation Cancer will be made at the National Observatory. This fine cluster is supposed to contain upwards of sixty stars from the 7th to the 10th magnitude. When the survey is completed, these stars will be included in this catalogue.



ALMANAC CATALOGUE

OF

ZODIACAL STARS.

CATALOGUE OF

No.	Name.	Magn.	Mean Right Ascension 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.
1	34 Piscium	6	$\begin{matrix} \mu & \text{in} & \text{s} \\ 0 & 2 & 19.76 \end{matrix}$	+3.077	$\begin{matrix} \text{s} \\ +0.0055 \end{matrix}$	$\begin{matrix} \text{s} \\ +0.004 \end{matrix}$	$\begin{matrix} 10 & 18 & 37.9 \\ \circ & ' & '' \end{matrix}$	+20.00	-0.005	-0.05
2	B.A.C. 17	6½	0 2 38.16	+3.076	-0.0030	+0.007	-6 4 55.6	+20.03	-0.005	-0.02
3	35 Pisc., <i>pr.</i>	6	0 7 15.40	+3.084	+0.0046	+0.007	+ 7 59 15.6	+20.01	-0.014	-0.04
4	36 Piscium	6½	0 8 51.84	+3.077	+0.0044	0.000	+ 7 24 27.3	+20.06	-0.017	+0.02
5	B.A.C. 57	6½	0 10 5.37	+3.067	+0.0010	-0.005	+ 0 51 15.9	+20.03	-0.020	-0.01
6	<i>d</i> Piscium	5½	0 12 52.90	+3.085	+0.0046	+0.005	+ 7 21 24.6	+20.07	-0.025	+0.05
7	B.A.C. 81	6½	0 16 49.73	+3.052	-0.0006	-0.013	- 3 2 53.9	+19.90	-0.033	-0.10
8	44 Piscium	6	0 17 42.90	+3.075	+0.0016	+0.002	+ 1 6 31.7	+20.00	-0.035	0.00
9	45 Piscium	6	0 17 58.02	+3.086	+0.0046	+0.003	+ 6 51 41.4	+19.94	-0.035	-0.05
10	10 Ceti	6	0 18 55.83	+3.077	+0.0006	+0.008	- 0 52 51.7	+19.99	-0.037	0.00
11	12 Ceti	6	0 22 22.96	+3.063	-0.0012	+0.003	- 4 47 12.4	+19.95	-0.044	-0.01
12	51 Pisc., <i>pr.</i>	6½	0 24 39.64	+3.089	+0.0046	+0.003	+ 6 7 39.2	+20.01	-0.048	+0.07
13	B.A.C. 142	6½	0 27 9.07	+3.109	+0.0083	+0.003	+12 32 48.7	+19.95	-0.054	+0.03
14	13 Ceti	5½	0 27 31.68	+3.085	-0.0007	+0.027	- 4 25 9.8	+19.88	-0.053	-0.03
15	14 Ceti	6½	0 27 50.82	+3.076	+0.0009	+0.009	- 1 19 49.8	+19.77	-0.054	-0.14
16	B.A.C. 149	6	0 28 9.57	+3.107	+0.0083		+12 23 25.4	+19.90	-0.056	
17	53 Piscium	6	0 28 58.68	+3.117	+0.0094	+0.003	+14 24 20.6	+19.92	-0.057	+0.02
18	15 Ceti	6½	0 30 24.46	+3.063	+0.0010	-0.004	- 1 19 44.5	+19.86	-0.059	-0.02
19	B.A.C. 174	6	0 33 4.02	+3.040	-0.0008	-0.013	- 5 10 31.6	+19.98	-0.064	+0.13
20	B.A.C. 205	6	0 37 46.13	+3.056	-0.0007	+0.006	- 5 27 11.4	+19.71	-0.073	-0.07
21	58 Piscium	6	0 39 12.19	+3.120	+0.0082	+0.004	+11 9 18.1	+19.82	-0.077	+0.06
22	60 Piscium	6	0 39 38.34	+3.097	+0.0053	+0.002	+ 5 55 17.3	+19.76	-0.078	0.00
23	62 Piscium	6	0 40 30.71	+3.104	+0.0057	+0.007	+ 6 28 51.4	+19.78	-0.079	+0.04
24	B.A.C. 221	6	0 40 30.96	+3.122	+0.0046	+0.039	+ 4 30 29.4	+18.56	-0.079	-1.18
25	<i>g</i> Piscium	4½	0 40 54.19	+3.107	+0.0058	+0.008	+ 6 46 3.7	+19.73	-0.080	-0.01
26	20 Ceti	5½	0 45 20.59	+3.064	+0.0015	+0.002	- 1 57 35.3	+19.67	-0.088	+0.01
27	B.A.C. 269	6½	0 50 2.43	+3.132	+0.0097	-0.005	+12 53 2.2	+19.53	-0.099	-0.05
28	B.A.C. 274	6½	0 52 3.41	+3.104	+0.0058	+0.003	+ 5 40 20.7	+19.50	-0.102	-0.04
29	<i>z</i> Piscium	4	0 55 9.75	+3.114	+0.0067	+0.004	+ 7 4 52.6	+19.50	-0.108	+0.02
30	26 Ceti	6½	0 56 5.94	+3.084	+0.0034	+0.010	+ 0 33 40.9	+19.39	-0.109	-0.07
31	73 Piscium	6½	0 57 6.55	+3.105	+0.0056	+0.006	+ 4 51 0.9	+19.42	-0.111	-0.02
32	72 Piscium	6	0 57 10.68	+3.158	+0.0108	+0.004	+14 8 17.6	+19.48	-0.114	+0.05
33	77 Pisc., <i>pr.</i>	7	0 58 3.97	+3.099	+0.0053	+0.004	+ 4 6 29.5	+19.31	-0.113	-0.11
34	75 Piscium	6½	0 58 40.51	+3.148	+0.0097	+0.004	+12 9 6.4	+19.48	-0.116	+0.08
35	29 Ceti	6½	1 0 15.78	+3.088	+0.0039	+0.010	+ 1 12 27.5	+18.91	-0.117	-0.46
36	<i>e</i> Piscium	5½	1 0 38.77	+3.083	+0.0058	-0.017	+ 4 51 17.8	+19.17	-0.118	-0.19
37	B.A.C. 341	6	1 2 14.87	+3.184	+0.0115	+0.018	+14 52 21.2	+19.15	-0.124	-0.17
38	33 Ceti	6	1 2 50.68	+3.083	+0.0042	+0.002	+ 1 38 46.6	+19.32	-0.122	+0.01
39	35 Ceti	6½	1 4 49.35	+3.072	+0.0043	-0.010	+ 1 40 41.2	+19.12	-0.125	-0.14
40	<i>z</i> Piscium, <i>pr.</i>	4½	1 5 53.84	+3.129	+0.0071	+0.013	+ 6 46 51.1	+19.17	-0.129	-0.06
41	87 Piscium	6½	1 6 9.95	+3.174	+0.0149	-0.001	+15 20 15.4	+19.20	-0.132	-0.03
42	88 Piscium	6½	1 6 54.49	+3.111	+0.0067	-0.001	+ 6 12 3.6	+19.21	-0.131	0.00
43	<i>f</i> Piscium	6	1 10 3.97	+3.090	+0.0051	-0.001	+ 2 49 24.0	+19.12	-0.136	-0.01
44	B.A.C. 408	6½	1 14 57.63	+3.091	+0.0060	-0.009	+ 3 57 8.9	+18.95	-0.145	-0.04
45	94 Piscium	5	1 18 36.06	+3.225	+0.0144	+0.004	+18 27 43.3	+18.88	-0.158	-0.01
46	B.A.C. 433	6½	1 18 46.91	+3.065	+0.0035	+0.004	- 1 10 45.3	+18.88	-0.151	
47	96 Piscium	6½	1 21 13.69	+3.125	+0.0076	+0.001	+ 6 31 7.2	+18.77	-0.158	-0.04
48	μ Piscium	4	1 22 19.73	+3.137	+0.0070	+0.022	+ 5 22 6.6	+18.60	-0.160	-0.18
49	η Piscium	3½	1 23 27.80	+3.200	+0.0121	+0.006	+14 34 14.9	+18.76	-0.166	+0.02
50	B.A.C. 469	6	1 26 42.82	+3.245	+0.0142	+0.017	+17 41 36.0	+18.52	-0.174	-0.12
51	101 Piscium	6	1 27 45.61	+3.196	+0.0119	+0.002	+13 53 35.1	+18.62	-0.174	+0.02
52	B.A.C. 477	6	1 27 48.31	+3.231	+0.0136	+0.011	+16 39 54.1	+18.67	-0.176	+0.07
53	B.A.C. 481	6½	1 28 12.20	+3.132	+0.0080	+0.001	+ 6 52 34.9	+18.62	-0.171	+0.03
54	π Piscium	6	1 29 9.15	+3.171	+0.0104	-0.002	+11 22 21.8	+18.64	-0.176	+0.08
55	104 Piscium	6½	1 31 13.58	+3.203	+0.0118	+0.008	+13 31 24.6	+18.50	-0.181	+0.01
56	105 Piscium	6	1 31 35.69	+3.222	+0.0131	+0.006	+15 38 34.8	+18.47	-0.183	0.00
57	ν Piscium	4½	1 33 37.69	+3.117	+0.0071	+0.002	+ 4 43 34.7	+18.38	-0.180	-0.02
58	\omicron Piscium	4	1 37 28.66	+3.162	+0.0091	+0.010	+ 8 24 2.8	+18.31	-0.190	+0.04
59	3 Arietis	6½	1 38 27.13	+3.239	+0.0140	+0.002	+16 39 33.3	+18.24	-0.197	+0.01
60	4 Arietis	6½	1 40 3.20	+3.241	+0.0137	+0.006	+16 12 27.8	+18.21	-0.200	+0.04

ZODIACAL STARS.

3

No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
1	+0.4876	+8.0837	+8.8310	+6.8386	+1.3022	-8.0076	+9.6286	+9.2528	14	7
2	+0.4870	-7.8515	+8.8963	+6.8870	+1.3022	-8.0607	+9.6362	-9.0251	17	
3	+0.4881	+7.9708	+8.8279	+7.3286	+1.3020	-8.5005	+9.6288	+9.1427	36	10
4	+0.4882	+7.9376	+8.8272	+7.4149	+1.3019	-8.5874	+9.6287	+9.1100	44	
5	+0.4874	+6.9971	+8.8235	+7.4675	+1.3018	-8.6436	+9.6367	+8.1731	57	
6	+0.4886	+7.9342	+8.8268	+7.5772	+1.3015	-8.7497	+9.6266	+9.1067	66	16
7	+0.4865	-7.5491	+8.8234	+7.6900	+1.3011	-8.8655	+9.6408	-8.7246	81	
8	+0.4875	+7.1094	+8.8227	+7.7117	+1.3009	-8.8577	+9.6359	+8.2854	87	21
9	+0.4890	+7.9030	+8.8257	+7.7209	+1.3009	-8.8939	+9.6248	+9.0759	89	22
10	+0.4870	-7.0092	+8.8225	+7.7405	+1.3007	-8.9165	+9.6387	-8.1853	95	25
11	+0.4857	-7.7448	+8.8234	+7.8145	+1.3002	-8.9801	+9.6440	-8.9194	112	28
12	+0.4894	+7.8522	+8.8239	+7.8574	+1.2997	-9.0310	+9.6233	+9.0258	129	
13	+0.4922	+8.1633	+8.8314	+7.9070	+1.2992	-9.0726	+9.5998	+9.3339	142	
14	+0.4855	-7.7089	+8.8221	+7.9037	+1.2991	-9.0785	+9.6453	-8.8837	145	32
15	+0.4867	-7.1867	+8.8208	+7.9076	+1.2990	-9.0835	+9.6401	-8.3627	147	
16	+0.4923	+8.1624	+8.8309	+7.9225	+1.2989	-9.0884	+9.5995	+9.3283	149	
17	+0.4933	+8.2301	+8.8343	+7.9385	+1.2987	-9.1008	+9.5898	+9.3924	156	36
18	+0.4866	-7.1856	+8.8202	+7.9456	+1.2984	-9.1215	+9.6404	-8.3616	163	
19	+0.4848	-7.7764	+8.8211	+7.9834	+1.2977	-9.1577	+9.6486	-8.9507	174	
20	+0.4843	-7.7978	+8.8200	+8.0409	+1.2963	-9.2150	+9.6509	-8.9719	205	
21	+0.4935	+8.1125	+8.8258	+8.0632	+1.2958	-9.2310	+9.5943	+9.2803	213	44
22	+0.4906	+7.8332	+8.8197	+8.0620	+1.2957	-9.2358	+9.6169	+9.0070	216	
23	+0.4910	+7.8725	+8.8199	+8.0718	+1.2954	-9.2451	+9.6142	+9.0458	220	
24	+0.4898	+7.7139	+8.8184	+8.0704	+1.2954	-9.2452	+9.6220	+8.8886	221	47
25	+0.4912	+7.8914	+8.8200	+8.0762	+1.2953	-9.2493	+9.6128	+9.0644	222	50
26	+0.4860	-7.3496	+8.8156	+8.1177	+1.2937	-9.2935	+9.6439	-8.5254	242	56
27	+0.4965	+8.1728	+8.8245	+8.1707	+1.2918	-9.3357	+9.5737	+9.3378	269	
28	+0.4914	+7.8097	+8.8147	+8.1786	+1.2909	-9.3526	+9.6123	+8.9836	274	
29	+0.4923	+7.9054	+8.8145	+8.2045	+1.2895	-9.3773	+9.6035	+9.0782	288	66
30	+0.4877	+6.8017	+8.8108	+8.2084	+1.2891	-9.3844	+9.6350	+7.9778	295	68
31	+0.4912	+7.7390	+8.8118	+8.2175	+1.2886	-9.3920	+9.6144	+8.9135	303	
32	+0.4983	+8.2115	+8.8236	+8.2298	+1.2886	-9.3925	+9.5569	+9.3742	305	
33	+0.4906	+7.6661	+8.8109	+8.2241	+1.2881	-9.3991	+9.6178	+8.8411	311	
34	+0.4974	+8.1426	+8.8194	+8.2373	+1.2878	-9.4035	+9.5693	+9.3089	316	
35	+0.4883	+7.1327	+8.8088	+8.2389	+1.2870	-9.4149	+9.6319	+8.3086	324	
36	+0.4914	+7.7376	+8.8101	+8.2430	+1.2868	-9.4175	+9.6131	+8.9121	328	72
37	+0.5005	+8.2319	+8.8225	+8.2673	+1.2860	-9.4286	+9.5447	+9.3932	341	
38	+0.4887	+7.2659	+8.8076	+8.2567	+1.2857	-9.4266	+9.6294	+8.4418	344	
39	+0.4888	+7.2731	+8.8065	+8.2698	+1.2846	-9.4457	+9.6290	+8.4490	359	
40	+0.4936	+7.8809	+8.8088	+8.2797	+1.2840	-9.4527	+9.5992	+9.0539	368	86
41	+0.5017	+8.2437	+8.8213	+8.2941	+1.2839	-9.4544	+9.5356	+9.4041	370	
42	+0.4931	+7.8412	+8.8077	+8.2856	+1.2834	-9.4591	+9.6024	+9.0147	373	
43	+0.4900	+7.4963	+8.8038	+8.3030	+1.2816	-9.4785	+9.6218	+8.6718	388	
44	+0.4914	+7.6397	+8.8013	+8.3318	+1.2786	-9.5069	+9.6136	+8.8147	408	
45	+0.5080	+8.3214	+8.8208	+8.3736	+1.2762	-9.5267	+9.4844	+9.4746	431	
46	+0.4859	-7.1112	+8.7978	+8.3517	+1.2760	-9.5277	+9.6442	-8.2872	433	
47	+0.4947	+7.8540	+8.7989	+8.3671	+1.2744	-9.5404	+9.5931	+9.0272	442	
48	+0.4934	+7.7682	+8.7972	+8.3718	+1.2736	-9.5460	+9.6012	+8.9424	448	121
49	+0.5044	+8.2093	+8.8087	+8.3898	+1.2728	-9.5517	+9.5190	+9.3712	453	124
50	+0.5090	+8.2959	+8.8131	+8.4125	+1.2704	-9.5675	+9.4787	+9.4509	469	
51	+0.5044	+8.1846	+8.8042	+8.4093	+1.2696	-9.5725	+9.5206	+9.3478	476	
52	+0.5079	+8.2694	+8.8099	+8.4152	+1.2695	-9.5727	+9.4893	+9.4249	477	
53	+0.4957	+7.8723	+8.7941	+8.4016	+1.2692	-9.5745	+9.5864	+9.0452	481	
54	+0.5014	+8.0937	+8.7988	+8.4115	+1.2685	-9.5790	+9.5448	+9.2612	488	137
55	+0.5045	+8.1697	+8.8008	+8.4245	+1.2669	-9.5884	+9.5202	+9.3336	496	
56	+0.5074	+8.2354	+8.8047	+8.4304	+1.2666	-9.5901	+9.4955	+9.3951	500	
57	+0.4934	+7.7040	+8.7881	+8.4245	+1.2649	-9.5991	+9.6018	+8.8786	518	145
58	+0.4986	+7.9527	+8.7881	+8.4442	+1.2617	-9.6156	+9.5670	+9.1241	537	152
59	+0.5102	+8.2586	+8.8012	+8.4621	+1.2609	-9.6196	+9.4717	+9.4160	538	155
60	+0.5099	+8.2445	+8.7988	+8.4677	+1.2595	-9.6262	+9.4752	+9.4030	546	

CATALOGUE OF

No.	Name.	Mag.	Mean Right Ascension 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.
61	B.A.C. 551	6½	^h 40 40.09	^s +3.103	^s +0.0064	^s +0.003	+ 2 56 4.7	+18.14	-0.192	-0.01
62	54 Ceti	6	1 42 54.75	+3.171	+0.0104	-0.005	+10 17 52.6	+18.00	-0.201	-0.07
63	γ ¹ Arietis	4½	1 45 18.38	+3.277	+0.0153	+0.007	+18 33 21.7	+17.89	-0.212	-0.09
64	γ ² Arietis	3½	1 45 18.40	+3.279	+0.0153	+0.009	+18 33 30.8	+17.88	-0.212	-0.09
65	ξ Piscium	4	1 45 47.57	+3.099	+0.0064	+0.003	+ 2 26 40.3	+17.91	-0.201	-0.05
66	B.A.C. 632	6	1 55 29.63	+3.282	+0.0148	+0.007	+17 31 52.2	+17.60	-0.231	+0.04
67	15 Arietis	6	2 2 19.16	+3.310	+0.0158	+0.008	+18 47 26.8	+17.27	-0.245	0.00
68	64 Ceti	6½	2 3 26.37	+3.156	+0.0095	-0.009	+ 7 51 55.4	+17.12	-0.237	-0.10
69	η Arietis	5½	2 4 24.71	+3.341	+0.0170	+0.012	+20 30 12.5	+17.17	-0.251	0.00
70	ξ ¹ Ceti	4½	2 5 3.21	+3.169	+0.0097	-0.001	+ 8 8 26.2	+17.12	-0.240	-0.02
71	θ Arietis	5½	2 9 47.40	+3.325	+0.0161	+0.004	+19 12 16.9	+16.95	-0.260	+0.03
72	B.A.C. 728	6½	2 15 12.05	+3.203	+0.0108		+10 9 3.5	+16.67	-0.258	
73	B.A.C. 741	6½	2 16 29.83	+3.191	+0.0103	+0.001	+ 9 1 57.2	+16.51	-0.261	-0.09
74	ξ Arietis	5½	2 16 46.97	+3.205	+0.0107	+0.003	+ 9 55 41.3	+16.54	-0.263	-0.05
75	B.A.C. 755	6	2 18 43.24	+3.207	+0.0108	+0.004	+ 9 53 9.9	+16.36	-0.266	-0.13
76	ξ ² Ceti	4	2 20 11.34	+3.182	+0.0097	+0.006	+ 7 47 6.0	+16.42	-0.266	0.00
77	26 Arietis	6½	2 22 14.23	+3.347	+0.0161	+0.006	+19 11 12.2	+16.31	-0.283	-0.01
78	27 Arietis	6	2 22 35.61	+3.314	+0.0147	+0.005	+17 2 15.3	+16.26	-0.281	-0.04
79	29 Arietis	6½	2 24 41.42	+3.273	+0.0132	0.000	+14 22 2.9	+16.22	-0.282	+0.03
80	B.A.C. 782	6½	2 25 13.92	+3.340	+0.0155	+0.009	+18 12 57.4	+16.20	-0.288	+0.04
81	B.A.C. 789	6½	2 27 7.92	+3.168	+0.0092	+0.002	+ 6 48 58.0	+15.94	-0.277	-0.12
82	31 Arietis	5½	2 28 27.47	+3.259	+0.0117	+0.020	+11 47 41.4	+15.94	-0.285	-0.05
83	B.A.C. 800	6½	2 28 38.72	+3.174	+0.0094	+0.003	+ 7 4 30.0	+16.00	-0.279	+0.02
84	ν Arietis	5½	2 30 18.44	+3.392	+0.0174	+0.003	+21 18 34.6	+15.86	-0.301	-0.03
85	μ Arietis	5½	2 33 54.98	+3.368	+0.0161	+0.005	+19 22 9.1	+15.69	-0.305	-0.01
86	B.A.C. 830	6	2 34 24.72	+3.218	+0.0100	-0.001	+10 5 53.5	+15.61	-0.293	-0.06
87	ο Arietis	6½	2 36 17.50	+3.294	+0.0133	+0.003	+14 40 19.4	+15.50	-0.303	-0.07
88	38 Arietis	5	2 36 47.54	+3.259	+0.0117	+0.012	+11 48 41.1	+15.47	-0.299	-0.07
89	μ Ceti	4	2 36 50.37	+3.232	+0.0105	+0.020	+ 9 28 39.5	+15.49	-0.296	-0.05
90	40 Arietis	6	2 40 8.03	+3.349	+0.0150	+0.005	+17 39 27.5	+15.43	-0.314	+0.07
91	π Arietis, tr.	5½	2 40 55.73	+3.335	+0.0145	+0.003	+16 50 14.7	+15.35	-0.314	+0.04
92	σ Arietis	6	2 43 13.06	+3.299	+0.0132	+0.003	+14 27 38.1	+15.15	-0.314	-0.03
93	ρ ¹ Arietis	7	2 46 31.37	+3.350	+0.0146	+0.006	+17 7 23.2	+15.05	-0.324	+0.06
94	ρ ² Arietis	6	2 47 23.25	+3.358	+0.0149	+0.002	+17 43 15.3	+14.95	-0.327	+0.01
95	ρ ³ Arietis	6	2 47 58.57	+3.374	+0.0147	+0.023	+17 25 17.5	+14.74	-0.327	-0.17
96	47 Arietis	6	2 49 30.76	+3.419	+0.0162	+0.019	+20 3 48.5	+14.77	-0.334	-0.05
97	ς Arietis, pr.	4½	2 50 38.59	+3.418	+0.0166	+0.004	+20 44 13.1	+14.75	-0.337	0.00
98	λ Ceti	5½	2 51 41.03	+3.213	+0.0099	+0.009	+ 8 18 24.7	+14.70	-0.318	+0.01
99	52 Arietis, gr.	6½	2 56 39.47	+3.500	+0.0191	+0.002	+24 40 2.3	+14.36	-0.356	-0.03
100	53 Arietis	6	2 58 59.34	+3.362	+0.0143	-0.002	+17 17 50.5	+14.24	-0.345	0.00
101	54 Arietis	6½	2 59 51.45	+3.385	+0.0149	+0.003	+18 12 56.0	+14.17	-0.349	-0.02
102	δ Arietis	4½	3 3 3.56	+3.418	+0.0153	+0.015	+19 9 20.2	+14.00	-0.356	+0.01
103	B.A.C. 987	6½	3 3 8.05	+3.284	+0.0117	+0.001	+12 28 33.6	+14.02	-0.343	+0.03
104	ζ Arietis	4½	3 6 17.18	+3.434	+0.0160	+0.001	+20 29 6.1	+13.73	-0.364	-0.06
105	B.A.C. 1032	6½	3 12 14.58	+3.440	+0.0154	+0.008	+19 57 46.9	+13.30	-0.372	-0.10
106	τ ¹ Arietis	5	3 12 34.43	+3.449	+0.0158	+0.004	+20 36 9.9	+13.33	-0.374	-0.05
107	τ ² Arietis	6	3 14 7.91	+3.438	+0.0154	-0.001	+20 12 5.6	+13.26	-0.376	-0.02
108	64 Arietis	6	3 15 27.47	+3.525	+0.0178	+0.002	+24 11 19.1	+13.13	-0.387	-0.06
109	65 Arietis	6	3 15 47.44	+3.444	+0.0154	+0.001	+20 16 0.0	+13.15	-0.379	-0.02
110	66 Arietis	6½	3 19 40.93	+3.494	+0.0165	+0.004	+22 16 59.6	+12.82	-0.389	-0.09
111	ς Tauri	6	3 22 12.98	+3.272	+0.0105	+0.004	+10 49 3.4	+12.70	-0.368	-0.04
112	ζ Tauri	4	3 22 35.92	+3.304	+0.0112	+0.006	+12 25 6.5	+12.72	-0.372	0.00
113	7 Tauri, tr.	6	3 25 34.11	+3.538	+0.0171	+0.003	+23 57 24.8	+12.48	-0.403	-0.03
114	B.A.C. 1096	6	3 25 35.57	+3.376	+0.0134	-0.021	+17 20 14.1	+12.13	-0.387	-0.38
115	9 Tauri	6½	3 28 9.14	+3.512	+0.0162	0.000	+22 42 39.2	+12.30	-0.404	-0.04
116	11 Tauri	6	3 31 49.21	+3.568	+0.0173	+0.003	+24 50 24.1	+12.03	-0.415	-0.05
117	13 Tauri	6½	3 33 40.23	+3.446	+0.0140	+0.001	+19 12 57.8	+11.94	-0.403	-0.01
118	14 Tauri	7	3 35 7.31	+3.458	+0.0138	+0.012	+19 11 13.3	+11.83	-0.406	-0.02
119	g Pleiadum	5½	3 35 53.77	+3.554	+0.0164	+0.006	+23 48 48.4	+11.75	-0.419	-0.05
120	δ Pleiadum	4½	3 35 58.68	+3.548	+0.0163	+0.004	+23 38 15.7	+11.76	-0.418	-0.03

ZODIACAL STARS.

5

No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
61	+0.4913	+7.4904	+8.7812	+8.4531	+1.2589	-9.6287	+9.6145	+8.6659	551	
62	+0.5019	+8.0379	+8.7856	+8.4686	+1.2569	-9.6376	+9.5433	+9.2070	561	
63	+0.5145	+8.3023	+8.7995	+8.4940	+1.2547	-9.6469	+9.4319	+9.4552	572	168
64	+0.5145	+8.3023	+8.7995	+8.4940	+1.2547	-9.6469	+9.4317	+9.4552	573	166
65	+0.4908	+7.4063	+8.7763	+8.4731	+1.2542	-9.6488	+9.6176	+8.5820	574	169
66	+0.5152	+8.2658	+8.7869	+8.5284	+1.2446	-9.6838	+9.4286	+9.4212	632	
67	+0.5188	+8.2907	+8.7827	+8.5542	+1.2372	-9.7065	+9.3925	+9.4430	665	
68	+0.5004	+7.8979	+8.7617	+8.5381	+1.2359	-9.7101	+9.5559	+9.0639	672	
69	+0.5223	+8.3293	+8.7849	+8.5655	+1.2348	-9.7131	+9.3533	+9.4770	682	193
70	+0.5011	+7.9112	+8.7602	+8.5435	+1.2341	-9.7152	+9.5516	+9.0829	684	195
71	+0.5212	+8.2922	+8.7751	+8.5784	+1.2285	-9.7296	+9.3679	+9.4434	707	204
72	+0.5056	+7.9964	+8.7503	+8.5760	+1.2218	-9.7453	+9.5173	+9.1657	728	
73	+0.5038	+7.9432	+8.7473	+8.5783	+1.2202	-9.7490	+9.5321	+9.1138	741	
74	+0.5054	+7.9846	+8.7480	+8.5802	+1.2198	-9.7498	+9.5193	+9.1541	745	
75	+0.5056	+7.9802	+8.7455	+8.5855	+1.2173	-9.7551	+9.5183	+9.1498	755	
76	+0.5018	+7.8728	+8.7410	+8.5870	+1.2153	-9.7591	+9.5468	+9.0449	760	212
77	+0.5239	+8.2758	+8.7591	+8.6133	+1.2126	-9.7646	+9.3401	+9.4271	769	
78	+0.5198	+8.2202	+8.7533	+8.6089	+1.2121	-9.7655	+9.3876	+9.3768	771	214
79	+0.5149	+8.1394	+8.7447	+8.6087	+1.2092	-9.7710	+9.4376	+9.3017	780	217
80	+0.5226	+8.2475	+8.7525	+8.6187	+1.2085	-9.7724	+9.3562	+9.4012	782	
81	+0.5006	+7.8050	+8.7306	+8.6043	+1.2058	-9.7773	+9.5561	+8.9780	789	
82	+0.5104	+8.0454	+8.7349	+8.6138	+1.2039	-9.7806	+9.4793	+9.2122	798	
83	+0.5012	+7.8192	+8.7287	+8.6083	+1.2036	-9.7811	+9.5518	+8.9919	800	
84	+0.5300	+8.3141	+8.7537	+8.6399	+1.2012	-9.7852	+9.2617	+9.4594	808	226
85	+0.5267	+8.2636	+8.7429	+8.6432	+1.1959	-9.7940	+9.3075	+9.4144	825	230
86	+0.5078	+7.9675	+8.7236	+8.6258	+1.1951	-9.7951	+9.5022	+9.1368	830	
87	+0.5174	+8.1320	+8.7284	+8.6379	+1.1923	-9.7996	+9.4153	+9.2937	842	
88	+0.5115	+8.0336	+8.7225	+8.6339	+1.1915	-9.8007	+9.4704	+9.2004	844	237
89	+0.5067	+7.9357	+8.7191	+8.6307	+1.1914	-9.8008	+9.5104	+9.1058	845	238
90	+0.5243	+8.2108	+8.7289	+8.6532	+1.1863	-9.8084	+9.3393	+9.3660	867	
91	+0.5227	+8.1876	+8.7257	+8.6531	+1.1850	-9.8102	+9.3585	+9.3447	870	244
92	+0.5180	+8.1144	+8.7170	+8.6531	+1.1813	-9.8152	+9.4099	+9.2765	881	247
93	+0.5243	+8.1862	+8.7172	+8.6660	+1.1758	-9.8224	+9.3406	+9.3426	898	
94	+0.5258	+8.2006	+8.7171	+8.6692	+1.1743	-9.8242	+9.3228	+9.3555	901	
95	+0.5252	+8.1917	+8.7154	+8.6698	+1.1733	-9.8255	+9.3300	+9.3474	903	249
96	+0.5314	+8.2549	+8.7196	+8.6798	+1.1707	-9.8287	+9.2465	+9.4038	913	251
97	+0.5332	+8.2686	+8.7195	+8.6840	+1.1687	-9.8310	+9.2199	+9.4156	921	254
98	+0.5056	+7.8530	+8.6932	+8.6616	+1.1669	-9.8331	+9.5198	+9.0245	929	
99	+0.5439	+8.3417	+8.7212	+8.7085	+1.1580	-9.8431	+9.0154	+9.4762	957	
100	+0.5268	+8.1686	+8.6954	+8.6916	+1.1536	-9.8476	+9.3118	+9.3246	966	266
101	+0.5291	+8.1910	+8.6960	+8.6955	+1.1520	-9.8492	+9.2817	+9.3447	971	
102	+0.5319	+8.2083	+8.6923	+8.7039	+1.1458	-9.8552	+9.2425	+9.3597	986	271
103	+0.5162	+8.0123	+8.6778	+8.6896	+1.1457	-9.8553	+9.4296	+9.1780	987	
104	+0.5357	+8.2335	+8.6895	+8.7134	+1.1395	-9.8611	+9.1827	+9.3813	999	275
105	+0.5355	+8.2091	+8.6758	+8.7223	+1.1272	-9.8715	+9.1872	+9.3583	1032	
106	+0.5372	+8.2233	+8.6769	+8.7247	+1.1265	-9.8721	+9.1587	+9.3707	1034	282
107	+0.5365	+8.2107	+8.6725	+8.7262	+1.1232	-9.8747	+9.1717	+9.3592	1045	
108	+0.5469	+8.2945	+8.6819	+8.7407	+1.1203	-9.8769	+8.9410	+9.4306	1052	285
109	+0.5369	+8.2086	+8.6691	+8.7291	+1.1196	-9.8774	+9.1641	+9.3570	1053	286
110	+0.5428	+8.2453	+8.6664	+8.7414	+1.1110	-9.8838	+9.0473	+9.3877	1069	293
111	+0.5143	+7.9081	+8.6347	+8.7194	+1.1052	-9.8877	+9.4492	+9.0764	1084	
112	+0.5183	+7.9689	+8.6363	+8.7225	+1.1044	-9.8883	+9.4108	+9.1347	1087	296
113	+0.5484	+8.2665	+8.6582	+8.7559	+1.0974	-9.8929	+8.8993	+9.4038	1095	298
114	+0.5311	+8.1134	+8.6392	+8.7370	+1.0973	-9.8929	+9.2586	+9.2693	1096	
115	+0.5455	+8.2346	+8.6479	+8.7557	+1.0912	-9.8968	+8.9818	+9.3757	1107	301
116	+0.5520	+8.2693	+8.6460	+8.7682	+1.0821	-9.9021	+8.7672	+9.4032	1126	304
117	+0.5372	+8.1414	+8.6240	+8.7535	+1.0775	-9.9047	+9.1629	+9.2926	1135	
118	+0.5373	+8.1370	+8.6202	+8.7555	+1.0737	-9.9067	+9.1608	+9.2882	1140	
119	+0.5500	+8.2382	+8.6320	+8.7704	+1.0717	-9.9078	+8.8476	+9.3756	1146	312
120	+0.5495	+8.2343	+8.6313	+8.7699	+1.0715	-9.9079	+8.8645	+9.3724	1147	313

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s	s	s	s	o	'	"	"	"	"
121	<i>m</i> Pleiadum	7	3 36	13.27	+3.562	+0.0166	+0.001	+24	21	50.3	+11.66	-0.420	-0.11	
122	<i>e</i> Pleiadum	5	3 36	17.22	+3.557	+0.0164	+0.004	+23	59	31.6	+11.75	-0.420	-0.02	
123	1 Pleiadum	8	3 36	32.26	+3.543	+0.0161		+23	33	40.0	+11.75	-0.419		
124	2 Pleiadum	8½	3 36	39.20	+3.553	+0.0163		+23	59	22.7	+11.74	-0.420		
125	3 Pleiadum	9	3 36	41.49	+3.544	+0.0162		+23	36	33.6	+11.74	-0.419		
126	4 Pleiadum	8	3 36	43.00	+3.550	+0.0163		+23	51	42.8	+11.74	-0.420		
127	5 Pleiadum	9	3 36	44.31	+3.557	+0.0165		+24	9	13.7	+11.74	-0.420		
128	6 Pleiadum	9	3 36	46.76	+3.549	+0.0163		+23	48	54.8	+11.73	-0.419		
129	<i>c</i> Pleiadum	5	3 36	54.50	+3.555	+0.0163	+0.004	+23	53	41.0	+11.68	-0.420	-0.04	
130	7 Pleiadum	8	3 36	57.77	+3.544	+0.0161		+23	33	57.8	+11.72	-0.419		
131	B.A.C. 1155	7	3 36	58.22	+3.541	+0.0156	+0.017	+22	40	27.5	+11.61	-0.417	-0.11	
132	<i>k</i> Pleiadum	7½	3 36	59.17	+3.565	+0.0164	+0.009	+24	4	54.9	+11.69	-0.421	-0.03	
133	<i>l</i> Pleiadum	7½	3 37	7.19	+3.557	+0.0164	+0.002	+24	3	23.3	+11.71	-0.421	0.00	
134	8 Pleiadum	8½	3 37	15.27	+3.548	+0.0162		+23	43	23.5	+11.69	-0.420		
135	9 Pleiadum	8½	3 37	21.55	+3.548	+0.0162		+23	43	5.0	+11.69	-0.420		
136	<i>d</i> Pleiadum	5	3 37	25.92	+3.549	+0.0160	+0.006	+23	28	36.5	+11.66	-0.420	-0.03	
137	10 Pleiadum	8	3 37	32.54	+3.550	+0.0162		+23	47	1.3	+11.68	-0.421		
138	11 Pleiadum	8½	3 37	45.10	+3.547	+0.0161		+23	37	57.4	+11.66	-0.420		
139	12 Pleiadum	7½	3 38	4.15	+3.582	+0.0164	+0.025	+24	3	2.2	+11.58	-0.422	-0.06	
140	13 Pleiadum	8½	3 38	10.22	+3.545	+0.0160		+23	31	33.7	+11.63	-0.420		
141	14 Pleiadum	9	3 38	16.19	+3.540	+0.0159		+23	17	48.9	+11.63	-0.419		
142	15 Pleiadum	8½	3 38	22.08	+3.548	+0.0161		+23	39	33.9	+11.62	-0.420		
143	16 Pleiadum	9½	3 38	23.31	+3.541	+0.0159		+23	20	54.6	+11.62	-0.419		
144	17 Pleiadum	8	3 38	24.63	+3.539	+0.0158		+23	15	25.9	+11.62	-0.419		
145	18 Pleiadum	8	3 38	24.81	+3.548	+0.0161		+23	40	13.4	+11.62	-0.421		
146	<i>p</i> Pleiadum	7½	3 38	26.48	+3.548	+0.0160	0.000	+23	38	52.0	+11.50	-0.422	-0.12	
147	19 Pleiadum	8	3 38	27.52	+3.540	+0.0159		+23	20	5.4	+11.61	-0.421		
148	20 Pleiadum	8	3 38	27.94	+3.559	+0.0163		+24	7	11.8	+11.61	-0.423		
149	21 Pleiadum	8½	3 38	30.25	+3.560	+0.0164		+24	11	18.4	+11.61	-0.423		
150	22 Pleiadum	8	3 38	30.60	+3.543	+0.0158		+23	26	46.4	+11.61	-0.422		
151	23 Pleiadum	8½	3 38	33.80	+3.538	+0.0158		+23	12	36.4	+11.61	-0.421		
152	24 Pleiadum	8	3 38	34.31	+3.556	+0.0161	+0.004	+23	49	14.7	+11.56	-0.423	-0.05	
153	<i>y</i> Tauri	3	3 38	34.56	+3.552	+0.0160	+0.004	+23	38	13.3	+11.56	-0.422	-0.05	
154	25 Pleiadum	8½	3 38	43.71	+3.537	+0.0157		+23	8	31.7	+11.59	-0.421		
155	26 Pleiadum	9	3 38	49.80	+3.536	+0.0157		+23	4	32.0	+11.59	-0.421		
156	27 Pleiadum	8½	3 39	14.13	+3.554	+0.0161		+23	51	8.4	+11.55	-0.423		
157	28 Pleiadum	7	3 39	28.50	+3.533	+0.0156	+0.003	+22	57	21.0	+11.48	-0.421	-0.06	
158	29 Pleiadum	8	3 39	34.54	+3.559	+0.0161	+0.004	+23	52	54.0	+11.51	-0.424	-0.02	
159	<i>s</i> Pleiadum	7½	3 40	2.68	+3.544	+0.0158	+0.003	+23	23	38.7	+11.50	-0.423		
160	<i>f</i> Pleiadum	4½	3 40	15.05	+3.552	+0.0159	+0.003	+23	35	25.6	+11.44	-0.424	-0.05	
161	<i>h</i> Pleiadum	5½	3 40	16.21	+3.555	+0.0160	+0.004	+23	40	27.3	+11.44	-0.425	-0.04	
162	30 Pleiadum	8½	3 40	18.54	+3.560	+0.0157	+0.014	+23	25	28.8	+11.44	-0.424	-0.04	
163	31 Pleiadum	8	3 40	20.92	+3.557	+0.0161		+23	55	59.7	+11.48	-0.424		
164	32 Pleiadum	8	3 40	25.95	+3.562	+0.0161	+0.005	+23	55	5.5	+11.38	-0.426	-0.09	
165	33 Pleiadum	8½	3 40	30.57	+3.554	+0.0160		+23	47	7.2	+11.47	-0.425		
166	34 Pleiadum	7½	3 40	50.02	+3.553	+0.0156	+0.011	+23	15	5.6	+11.49	-0.424	+0.05	
167	35 Pleiadum	9	3 40	50.70	+3.554	+0.0160		+23	46	56.8	+11.44	-0.425		
168	36 Pleiadum	9	3 40	59.47	+3.554	+0.0159		+23	45	21.1	+11.43	-0.425		
169	37 Pleiadum	8	3 41	0.93	+3.562	+0.0160	+0.005	+23	53	9.9	+11.14	-0.426	-0.29	
170	38 Pleiadum	8	3 41	3.85	+3.551	+0.0157	+0.005	+23	23	23.8	+11.49	-0.425	+0.06	
171	B.A.C. 1192	6½	3 41	18.47	+3.601	+0.0167	+0.015	+25	7	19.4	+11.16	-0.430	-0.25	
172	39 Pleiadum	8	3 41	31.47	+3.561	+0.0161		+24	2	7.8	+11.39	-0.427		
173	40 Pleiadum	7½	3 41	57.45	+3.549	+0.0157	-0.001	+23	30	16.4	+11.39	-0.427	+0.03	
174	32 Tauri	6	3 48	0.77	+3.531	+0.0145	+0.006	+22	2	32.0	+10.78	-0.431	-0.14	
175	33 Tauri	6	3 48	10.63	+3.548	+0.0148	+0.007	+22	44	9.1	+10.90	-0.433	-0.01	
176	B.A.C. 1240	6	3 52	10.60	+3.441	+0.0121	+0.007	+17	45	59.2	+10.59	-0.425	-0.03	
177	<i>z</i> Tauri	3½	3 52	22.49	+3.315	+0.0097	+0.002	+12	3	44.2	+10.61	-0.410	+0.01	
178	36 Tauri	6½	3 55	23.72	+3.575	+0.0148	+0.002	+23	41	21.1	+10.38	-0.446	+0.01	
179	Weis.III. 1085	8½	3 55	46.45	+3.369	+0.0104		+14	36	38.1	+10.34	-0.421		
180	A' Tauri	4½	3 55	50.02	+3.534	+0.0137	+0.008	+21	40	2.6	+10.28	-0.441	-0.06	

ZODIACAL STARS.

No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
121	+0.5516	+8.2485	+8.6331	+8.7727	+1.0709	-9.9083	+8.7875	+9.3841	1149	315
122	+0.5505	+8.2408	+8.6316	+8.7715	+1.0707	-9.9084	+8.8274	+9.3777	1151	316
123	+0.5493	+8.2312	+8.6295	+8.7704	+1.0700	-9.9087	+8.8683	+9.3695		
124	+0.5506	+8.2307	+8.6306	+8.7719	+1.0697	-9.9088	+8.8256	+9.3766		
125	+0.5495	+8.2319	+8.6293	+8.7708	+1.0696	-9.9089	+8.8624	+9.3700		
126	+0.5502	+8.2370	+8.6301	+8.7716	+1.0696	-9.9089	+8.8381	+9.3743		
127	+0.5510	+8.2429	+8.6310	+8.7727	+1.0695	-9.9090	+8.8068	+9.3792		
128	+0.5501	+8.2359	+8.6297	+8.7715	+1.0694	-9.9090	+8.8321	+9.3734		
129	+0.5504	+8.2372	+8.6297	+8.7720	+1.0691	-9.9092	+8.8338	+9.3744	1154	318
130	+0.5495	+8.2302	+8.6284	+8.7710	+1.0689	-9.9093	+8.8653	+9.3685		
131	+0.5470	+8.2115	+8.6255	+8.7681	+1.0689	-9.9093	+8.9425	+9.3527	1155	
132	+0.5509	+8.2408	+8.6301	+8.7728	+1.0689	-9.9093	+8.8136	+9.3773	1156	
133	+0.5509	+8.2399	+8.6297	+8.7729	+1.0685	-9.9095	+8.8156	+9.3766	1157	
134	+0.5500	+8.2326	+8.6280	+8.7719	+1.0680	-9.9097	+8.8480	+9.3704		
135	+0.5500	+8.2324	+8.6278	+8.7720	+1.0679	-9.9098	+8.8475	+9.3702		
136	+0.5493	+8.2272	+8.6269	+8.7714	+1.0677	-9.9099	+8.8704	+9.3658	1161	320
137	+0.5502	+8.2332	+8.6276	+8.7725	+1.0675	-9.9101	+8.8403	+9.3708		
138	+0.5498	+8.2295	+8.6265	+8.7723	+1.0668	-9.9104	+8.8538	+9.3676		
139	+0.5510	+8.2373	+8.6271	+8.7741	+1.0660	-9.9108	+8.8089	+9.3739	1163	
140	+0.5496	+8.2262	+8.6251	+8.7725	+1.0658	-9.9109	+8.8618	+9.3646		
141	+0.5490	+8.2212	+8.6241	+8.7720	+1.0655	-9.9111	+8.8821	+9.3603		
142	+0.5500	+8.2284	+8.6250	+8.7732	+1.0652	-9.9112	+8.8477	+9.3664		
143	+0.5491	+8.2220	+8.6239	+8.7722	+1.0652	-9.9112	+8.8769	+9.3610		
144	+0.5489	+8.2199	+8.6235	+8.7719	+1.0651	-9.9112	+8.8856	+9.3592		
145	+0.5500	+8.2285	+8.6249	+8.7734	+1.0651	-9.9113	+8.8458	+9.3664		
146	+0.5500	+8.2281	+8.6248	+8.7733	+1.0650	-9.9113	+8.8482	+9.3661	1164	321
147	+0.5491	+8.2215	+8.6237	+8.7723	+1.0650	-9.9113	+8.8777	+9.3605		
148	+0.5513	+8.2376	+8.6263	+8.7749	+1.0650	-9.9113	+8.7985	+9.3740		
149	+0.5515	+8.2389	+8.6264	+8.7752	+1.0649	-9.9114	+8.7903	+9.3751		
150	+0.5494	+8.2236	+8.6239	+8.7727	+1.0648	-9.9114	+8.8674	+9.3623		
151	+0.5488	+8.2185	+8.6229	+8.7719	+1.0647	-9.9114	+8.8892	+9.3580		
152	+0.5505	+8.2313	+8.6250	+8.7740	+1.0647	-9.9115	+8.8300	+9.3687	1165	
153	+0.5500	+8.2275	+8.6244	+8.7734	+1.0646	-9.9115	+8.8488	+9.3655	1166	322
154	+0.5486	+8.2167	+8.6223	+8.7720	+1.0643	-9.9117	+8.8939	+9.3564		
155	+0.5485	+8.2150	+8.6218	+8.7719	+1.0640	-9.9118	+8.8994	+9.3549		
156	+0.5507	+8.2300	+8.6232	+8.7751	+1.0627	-9.9124	+8.8215	+9.3673		
157	+0.5482	+8.2109	+8.6198	+8.7725	+1.0623	-9.9127	+8.9047	+9.3511		
158	+0.5508	+8.2298	+8.6225	+8.7756	+1.0620	-9.9128	+8.8169	+9.3670	1171	
159	+0.5495	+8.2184	+8.6196	+8.7745	+1.0607	-9.9134	+8.8636	+9.3573	1173	
160	+0.5501	+8.2220	+8.6197	+8.7755	+1.0601	-9.9137	+8.8426	+9.3602	1176	326
161	+0.5504	+8.2237	+8.6199	+8.7758	+1.0601	-9.9137	+8.8338	+9.3616	1177	327
162	+0.5497	+8.2184	+8.6190	+8.7750	+1.0600	-9.9138	+8.8585	+9.3571	1178	
163	+0.5511	+8.2287	+8.6205	+8.7767	+1.0599	-9.9138	+8.8061	+9.3658		
164	+0.5511	+8.2282	+8.6203	+8.7768	+1.0596	-9.9139	+8.8069	+9.3653	1182	
165	+0.5507	+8.2252	+8.6196	+8.7764	+1.0595	-9.9140	+8.8213	+9.3628		
166	+0.5493	+8.2134	+8.6170	+8.7752	+1.0586	-9.9145	+8.8722	+9.3527	1186	
167	+0.5508	+8.2243	+8.6187	+8.7769	+1.0586	-9.9145	+8.8188	+9.3619		
168	+0.5507	+8.2234	+8.6183	+8.7771	+1.0582	-9.9147	+8.8103	+9.3610		
169	+0.5511	+8.2260	+8.6186	+8.7775	+1.0581	-9.9147	+8.8069	+9.3632	1187	
170	+0.5497	+8.2156	+8.6169	+8.7759	+1.0579	-9.9148	+8.8573	+9.3545	1188	
171	+0.5546	+8.2500	+8.6221	+8.7822	+1.0572	-9.9151	+8.6415	+9.3829	1192	330
172	+0.5516	+8.2276	+8.6177	+8.7787	+1.0567	-9.9154	+8.8859	+9.3643		
173	+0.5502	+8.2156	+8.6148	+8.7775	+1.0555	-9.9159	+8.8414	+9.3540	1195	
174	+0.5471	+8.1673	+8.5929	+8.7805	+1.0383	-9.9236	+8.9415	+9.3104	1221	
175	+0.5491	+8.1818	+8.5946	+8.7829	+1.0378	-9.9238	+8.8802	+9.3227	1223	
176	+0.5358	+8.0533	+8.5688	+8.7738	+1.0259	-9.9286	+9.1887	+9.2082	1240	341
177	+0.5203	+7.8768	+8.5567	+8.7625	+1.0253	-9.9289	+9.3927	+9.0432	1241	342
178	+0.5530	+8.1799	+8.5759	+8.7945	+1.0160	-9.9324	+8.7292	+9.3177	1253	
179	+0.5275	+7.9525	+8.5507	+8.7710	+1.0145	-9.9328	+9.3092	+9.1143		
180	+0.5472	+8.1354	+8.5681	+8.7886	+1.0146	-9.9329	+8.9300	+9.2797	1257	344

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s	s	s		°	'	"	"	"	
181	A ² Tauri	6	3	56	27.47	+3.541	+0.0136	+0.016	+21	35	58.6	+10.19	-0.441	-0.10
182	Weis.III. 1108	8	3	57	6.57	+3.354	+0.0102		+13	52	28.3	+10.24	-0.421	
183	41 Tauri	6	3	57	24.91	+3.668	+0.0165	+0.006	+27	11	30.8	+10.20	-0.459	-0.02
184	ψ Tauri	5½	3	57	44.78	+3.699	+0.0174	+0.001	+28	35	28.5	+10.22	-0.464	+0.02
185	Weis.III. 1127	8	3	57	57.56	+3.358	+0.0102		+13	59	19.1	+10.18	-0.422	
186	Weis.III. 1133	9	3	58	8.10	+3.357	+0.0101		+13	57	44.5	+10.17	-0.422	
187	Weis.III. 1135	9½	3	58	10.78	+3.357	+0.0101		+13	57	26.1	+10.16	-0.422	
188	B.A.C. 1272	6	3	59	24.35	+3.428	+0.0113	+0.005	+16	56	4.9	+10.66	-0.432	-0.01
189	Lal. 7671	8	4	0	3.78	+3.422	+0.0112		+16	53	31.5	+10.02	-0.432	
190	Lal. 7677	8	4	0	14.43	+3.422	+0.0112		+16	53	27.9	+10.01	-0.433	
191	ω ¹ Tauri	6	4	0	26.02	+3.484	+0.0122	+0.010	+19	12	29.3	+ 9.94	-0.439	-0.06
192	B.A.C. 1275	6½	4	0	39.36	+3.349	+0.0096	+0.011	+12	59	46.9	+ 9.94	-0.422	-0.04
193	Lal. 7702	9½	4	0	47.77	+3.420	+0.0111		+16	45	45.5	+ 9.93	-0.433	
194	ρ Tauri	6	4	1	42.42	+3.643	+0.0155	+0.003	+26	5	7.7	+ 9.90	-0.462	0.00
195	Weisse IV. 24	9	4	2	13.11	+3.379	+0.0102		+14	50	27.6	+ 9.86	-0.429	
196	Lal. 7753	7½	4	2	24.45	+3.394	+0.0105		+15	33	5.7	+ 9.84	-0.431	
197	B.A.C. 1281	7	4	2	30.39	+3.417	+0.0107	+0.007	+16	15	8.0	+ 9.90	-0.433	+0.06
198	Weisse IV. 30	9	4	2	34.53	+3.359	+0.0099		+13	53	1.1	+ 9.83	-0.427	
199	Rumk. 1103	7	4	2	40.43	+3.385	+0.0104		+15	13	59.3	+ 9.81	-0.430	
200	Rumk. 1108	9	4	3	44.53	+3.370	+0.0100		+14	32	38.9	+ 9.74	-0.430	
201	Rumk. 1110		4	3	55.30	+3.424	+0.0109		+16	53	13.3	+ 9.73	-0.437	
202	B.A.C. 1289	7	4	3	57.97	+3.546	+0.0132	+0.002	+22	1	27.6	+ 9.78	-0.452	+0.05
203	Rumk. 1114	9	4	4	13.51	+3.365	+0.0099		+14	14	42.1	+ 9.70	-0.430	
204	Rumk. 1115	9	4	5	5.22	+3.364	+0.0098		+14	10	20.1	+ 9.63	-0.430	
205	Rumk. 1123	8½	4	5	40.09	+3.372	+0.0099		+14	30	33.2	+ 9.58	-0.432	
206	Rumk. 1125	8½	4	5	53.04	+3.365	+0.0097		+14	9	52.8	+ 9.57	-0.431	
207	Rumk. 1126	8½	4	5	57.31	+3.365	+0.0098		+14	14	27.1	+ 9.56	-0.431	
208	48 Tauri	6	4	7	15.71	+3.397	+0.0100	+0.010	+15	1	14.9	+ 9.42	-0.435	-0.05
209	Rumk. 1136	6	4	8	16.61	+3.403	+0.0102		+15	50	18.5	+ 9.38	-0.439	
210	ω ² Tauri	5½	4	8	23.64	+3.507	+0.0120	+0.001	+20	12	17.2	+ 9.32	-0.452	-0.06
211	Lal. 8006	8	4	9	17.95	+3.354	+0.0093		+13	27	38.2	+ 9.31	-0.433	
212	51 Tauri	7	4	9	30.97	+3.542	+0.0124	+0.012	+21	12	30.8	+ 9.30	-0.456	0.00
213	Weis. IV. 190	9	4	9	57.32	+3.370	+0.0095		+14	10	57.8	+ 9.26	-0.436	
214	Lal. 8031	9	4	10	0.31	+3.443	+0.0107		+17	26	26.1	+ 9.26	-0.445	
215	53 Tauri	6½	4	10	35.91	+3.525	+0.0121	+0.004	+20	46	30.8	+ 9.19	-0.456	-0.02
216	56 Tauri	6½	4	10	44.34	+3.541	+0.0123	+0.005	+21	24	27.8	+ 9.19	-0.458	-0.01
217	Weis. IV. 214	9	4	11	6.79	+3.374	+0.0095		+14	19	24.4	+ 9.17	-0.438	
218	φ Tauri	5	4	11	8.15	+3.673	+0.0150	-0.003	+26	59	15.7	+ 9.13	-0.477	-0.04
219	γ Tauri	4	4	11	15.72	+3.407	+0.0098	+0.012	+15	15	38.6	+ 9.14	-0.441	-0.02
220	Weis. IV. 218	8	4	11	17.61	+3.365	+0.0093		+13	55	2.0	+ 9.16	-0.437	
221	55 Tauri	7	4	11	20.02	+3.426	+0.0101	+0.011	+16	9	25.4	+ 9.13	-0.443	-0.03
222	h Tauri	5½	4	11	31.22	+3.371	+0.0092	+0.011	+13	40	8.7	+ 9.13	-0.436	-0.01
223	58 Tauri	6	4	12	6.23	+3.394	+0.0095	+0.010	+14	43	50.3	+ 9.05	-0.440	-0.05
224	B.A.C. 1335	6½	4	12	26.83	+3.370	+0.0090	+0.013	+13	30	5.8	+ 9.05	-0.437	-0.02
225	B.A.C. 1337	7	4	12	41.13	+3.541	+0.0118	+0.020	+20	40	43.1	+ 8.97	-0.458	-0.08
226	Lal. 8122	9	4	12	43.47	+3.455	+0.0107		+17	54	22.5	+ 9.05	-0.450	
227	B.A.C. 1338	7	4	12	45.20	+3.538	+0.0119	+0.013	+20	49	34.9	+ 9.12	-0.459	+0.07
228	Rumk. 1161		4	12	49.36	+3.437	+0.0104		+17	12	54.9	+ 9.04	-0.448	
229	Rumk. 1162	6	4	12	50.34	+3.457	+0.0107		+18	3	23.8	+ 9.04	-0.450	
230	Rumk. 1163	8	4	12	57.34	+3.420	+0.0101		+16	26	42.8	+ 9.03	-0.445	
231	Lal. 8135	7½	4	13	6.40	+3.369	+0.0092		+14	2	59.1	+ 9.02	-0.439	
232	γ Tauri	5½	4	13	27.66	+3.640	+0.0139	+0.005	+25	16	12.9	+ 8.95	-0.474	-0.04
233	B.A.C. 1342	7	4	13	33.73	+3.524	+0.0116	+0.007	+20	27	36.6	+ 8.83	-0.459	-0.15
234	60 Tauri	6½	4	13	36.65	+3.372	+0.0091	+0.010	+13	43	6.7	+ 8.97	-0.439	-0.01
235	Weis. IV. 234	9	4	14	10.20	+3.382	+0.0093		+14	33	5.0	+ 8.94	-0.442	
236	Weis. IV. 236	8	4	14	14.00	+3.385	+0.0094		+14	41	55.7	+ 8.93	-0.442	
237	θ ¹ Tauri	4	4	14	17.33	+3.450	+0.0103	+0.009	+17	11	9.8	+ 8.91	-0.449	-0.02
238	Rumk. 1169		4	14	19.09	+3.524	+0.0117		+20	51	11.3	+ 8.93	-0.460	
239	B.A.C. 1347	8	4	14	26.85	+3.615	+0.0132	+0.010	+24	3	3.5	+ 8.91	-0.471	
240	63 Tauri	6	4	14	48.95	+3.434	+0.0099	+0.010	+16	25	24.4	+ 8.89	-0.448	+0.01

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
181	+0.5472	+8.1319	+8.5659	+8.7891	+1.0126	-9.9336	+8.9425	+9.2764	1260	345
182	+0.5256	+7.9249	+8.5451	+8.7711	+1.0103	-9.9343	+9.3326	+9.0881		
183	+0.5637	+8.2420	+8.5821	+8.8094	+1.0096	-9.9347	+7.8573	+9.3672	1262	
184	+0.5680	+8.2666	+8.5867	+8.8154	+1.0085	-9.9350	+8.4928	+9.3862	1265	
185	+0.5261	+7.9258	+8.5425	+8.7723	+1.0078	-9.9353	+9.3279	+9.0888		
186	+0.5260	+7.9243	+8.5419	+8.7724	+1.0073	-9.9355	+9.3288	+9.0874		
187	+0.5260	+7.9241	+8.5418	+8.7724	+1.0069	-9.9355	+9.3289	+9.0872		
188	+0.5344	+8.0084	+8.5441	+8.7800	+1.0031	-9.9369	+9.2127	+9.1652	1272	348
189	+0.5343	+8.0051	+8.5418	+8.7807	+1.0010	-9.9376	+9.2136	+9.1620		
190	+0.5343	+8.0045	+8.5412	+8.7808	+1.0004	-9.9378	+9.2134	+9.1614		
191	+0.5409	+8.0635	+8.5463	+8.7868	+0.9998	-9.9380	+9.0955	+9.2147	1274	
192	+0.5235	+7.8840	+8.5330	+8.7734	+0.9990	-9.9383	+9.3574	+9.0488	1275	349
193	+0.5340	+7.9991	+8.5391	+8.7812	+0.9986	-9.9384	+9.2181	+9.1563		
194	+0.5611	+8.2071	+8.5639	+8.8100	+0.9955	-9.9394	+7.8692	+9.3365	1279	
195	+0.5288	+7.9387	+8.5303	+8.7786	+0.9938	-9.9399	+9.2931	+9.1001		
196	+0.5307	+7.9594	+8.5311	+8.7802	+0.9932	-9.9401	+9.2659	+9.1193		
197	+0.5328	+7.9792	+8.5323	+8.7819	+0.9929	-9.9402	+9.2373	+9.1376	1281	
198	+0.5262	+7.9073	+8.5272	+8.7771	+0.9926	-9.9403	+9.3266	+9.0705		
199	+0.5296	+7.9491	+8.5295	+8.7799	+0.9923	-9.9404	+9.2779	+9.1086		
200	+0.5276	+7.9244	+8.5245	+8.7796	+0.9887	-9.9415	+9.3022	+9.0863		
201	+0.5345	+7.9919	+8.5289	+8.7848	+0.9880	-9.9417	+9.2074	+9.1489		
202	+0.5494	+8.1165	+8.5425	+8.7986	+0.9879	-9.9418	+8.8710	+9.2597	1289	
203	+0.5270	+7.9133	+8.5223	+8.7795	+0.9870	-9.9421	+9.3123	+9.0759		
204	+0.5269	+7.9080	+8.5192	+8.7803	+0.9840	-9.9429	+9.3040	+9.0707		
205	+0.5279	+7.9167	+8.5178	+8.7815	+0.9820	-9.9435	+9.3012	+9.0787		
206	+0.5270	+7.9050	+8.5164	+8.7811	+0.9813	-9.9438	+9.3133	+9.0677		
207	+0.5270	+7.9072	+8.5163	+8.7813	+0.9810	-9.9439	+9.3106	+9.0697		
208	+0.5298	+7.9268	+8.5133	+8.7842	+0.9765	-9.9452	+9.2804	+9.0878	1302	358
209	+0.5319	+7.9474	+8.5113	+8.7869	+0.9728	-9.9462	+9.2463	+9.1067		
210	+0.5448	+8.0597	+8.5214	+8.7979	+0.9721	-9.9464	+9.0086	+9.2082	1311	359
211	+0.5256	+7.8699	+8.5029	+8.7832	+0.9692	-9.9472	+9.3342	+9.0339		
212	+0.5478	+8.0790	+8.5205	+8.8018	+0.9684	-9.9475	+8.9248	+9.2246	1316	
213	+0.5276	+7.8911	+8.5019	+8.7852	+0.9668	-9.9479	+9.3084	+9.0538		
214	+0.5369	+7.9855	+8.5087	+8.7923	+0.9666	-9.9479	+9.1706	+9.1411		
215	+0.5467	+8.0652	+8.5153	+8.8016	+0.9644	-9.9485	+8.9571	+9.2121	1321	
216	+0.5486	+8.0790	+8.5167	+8.8036	+0.9639	-9.9487	+8.9015	+9.2240	1324	
217	+0.5282	+7.8913	+8.4979	+8.7866	+0.9625	-9.9490	+9.3620	+9.0537		
218	+0.5654	+8.1911	+8.5342	+8.8230	+0.9625	-9.9490	-8.2279	+9.3171	1326	
219	+0.5309	+7.9196	+8.4993	+8.7887	+0.9620	-9.9492	+9.2662	+9.0801	1328	362
220	+0.5270	+7.8777	+8.5065	+8.7861	+0.9619	-9.9492	+9.3165	+9.0408		
221	+0.5334	+7.9454	+8.5009	+8.7907	+0.9617	-9.9492	+9.2284	+9.1040	1329	
222	+0.5263	+7.8687	+8.4952	+8.7858	+0.9611	-9.9494	+9.3251	+9.0323	1330	
223	+0.5294	+7.9004	+8.4951	+8.7884	+0.9589	-9.9500	+9.2858	+9.0620	1332	
224	+0.5259	+7.8597	+8.4915	+8.7864	+0.9576	-9.9503	+9.3300	+9.0236	1335	
225	+0.5467	+8.0553	+8.5073	+8.8034	+0.9567	-9.9505	+8.9586	+9.2024	1337	
226	+0.5385	+7.9876	+8.4998	+8.7961	+0.9566	-9.9506	+9.1415	+9.1421		
227	+0.5471	+8.0584	+8.5075	+8.8039	+0.9565	-9.9506	+8.9460	+9.2051	1338	
228	+0.5362	+7.9690	+8.4978	+8.7945	+0.9562	-9.9507	+9.1770	+9.1252		
229	+0.5387	+7.9911	+8.4997	+8.7965	+0.9561	-9.9507	+9.1331	+9.1452		
230	+0.5340	+7.9475	+8.4955	+8.7929	+0.9557	-9.9508	+9.2133	+9.1054		
231	+0.5275	+7.8752	+8.4900	+8.7880	+0.9551	-9.9509	+9.3099	+9.0381		
232	+0.5605	+8.1495	+8.5192	+8.8189	+0.9538	-9.9513	+8.0334	+9.2819	1341	
233	+0.5461	+8.0469	+8.5034	+8.8036	+0.9534	-9.9514	+8.9736	+9.1947	1342	
234	+0.5267	+7.8625	+8.4875	+8.7879	+0.9532	-9.9514	+9.3212	+9.0260	1343	
235	+0.5292	+7.8870	+8.4869	+8.7900	+0.9511	-9.9520	+9.2902	+9.0490		
236	+0.5296	+7.8914	+8.4870	+8.7904	+0.9509	-9.9520	+9.2845	+9.0530		
237	+0.5367	+7.9627	+8.4922	+8.7958	+0.9507	-9.9521	+9.1761	+9.1190	1346	364
238	+0.5470	+8.0531	+8.5017	+8.8054	+0.9505	-9.9521	+8.9381	+9.1997		
239	+0.5569	+8.1214	+8.5112	+8.8156	+0.9500	-9.9522	+8.4942	+9.2580	1347	365
240	+0.5345	+7.9398	+8.4884	+8.7946	+0.9486	-9.9526	+9.2117	+9.0978	1350	

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s				°	'	"			
241	B.A.C. 1351	6½	4 14 52.74		+3.421	+0.0099		+16 16 30.9	+8.88	-0.447				
242	62 Tauri	7	4 14 57.46		+3.607	+0.0131	+0.004	+23 56 49.7	+8.86	-0.471			-0.01	
243	Weis. IV. 306	9	4 15 3.66		+3.377	+0.0092		+14 18 55.2	+8.87	-0.442				
244	β² Tauri	6	4 15 27.15		+3.451	+0.0101	+0.011	+17 5 30.5	+8.83	-0.450			0.00	
245	Weis. IV. 320	8	4 15 43.19		+3.379	+0.0092		+14 24 23.6	+8.82	-0.443				
246	Lal. 8249	7½	4 15 44.48		+3.431	+0.0100		+16 43 43.1	+8.81	-0.449				
247	Lal. 8256	8	4 15 50.68		+3.427	+0.0099		+16 32 4.2	+8.81	-0.449				
248	Rumk. 1180	7	4 16 0.35		+3.471	+0.0107		+18 33 43.0	+8.78	-0.455				
249	B.A.C. 1361	6	4 16 13.11		+3.477	+0.0107		+18 41 34.6	+8.77	-0.456				
250	α² Tauri	5½	4 16 25.87		+3.559	+0.0120	+0.004	+21 56 46.1	+8.71	-0.466			-0.05	
251	α² Tauri	6½	4 16 29.25		+3.563	+0.0119	+0.010	+21 51 10.7	+8.73	-0.466			-0.02	
252	β² Tauri	5	4 16 48.95		+3.464	+0.0102	+0.012	+17 34 50.9	+8.74	-0.453			+0.01	
253	70 Tauri	7	4 17 3.91		+3.416	+0.0095	+0.009	+15 35 35.2	+8.69	-0.448			-0.02	
254	ν¹ Tauri	4½	4 17 20.28		+3.579	+0.0121	+0.010	+22 28 7.1	+8.66	-0.469			-0.03	
255	Lal. 8311	8	4 17 33.20		+3.395	+0.0093		+15 10 47.5	+8.66	-0.446				
256	Rumk. 1188	6½	4 17 33.65		+3.395	+0.0093		+15 10 43.6	+8.66	-0.446				
257	Rumk. 1189		4 17 47.65		+3.425	+0.0098		+16 30 31.1	+8.65	-0.451				
258	71 Tauri	6	4 17 48.19		+3.410	+0.0093	+0.010	+15 16 22.5	+8.61	-0.447			-0.04	
259	Rumk. 1192		4 17 54.48		+3.432	+0.0099		+16 48 34.5	+8.64	-0.452				
260	ζ Tauri	5	4 18 8.11		+3.380	+0.0090	0.000	+14 22 11.5	+8.59	-0.445			-0.03	
261	Rumk. 1195		4 18 15.77		+3.477	+0.0106		+18 46 44.5	+8.61	-0.458				
262	ν³ Tauri	6	4 18 19.63		+3.579	+0.0121	+0.004	+22 39 14.2	+8.62	-0.471			+0.01	
263	Rumk. 1197		4 18 24.65		+3.457	+0.0102		+17 51 51.0	+8.60	-0.456				
264	Rumk. 1198	6	4 18 33.49		+3.396	+0.0092		+15 10 42.4	+8.59	-0.448				
265	Rumk. 1200		4 19 3.24		+3.397	+0.0092		+15 14 54.3	+8.55	-0.448				
266	B.A.C. 1373	7	4 19 6.99		+3.555	+0.0115	+0.013	+21 16 55.8	+8.59	-0.467			+0.04	
267	Rumk. 1203		4 19 46.27		+3.414	+0.0094		+15 57 43.4	+8.49	-0.451				
268	ε Tauri	3½	4 19 51.79		+3.494	+0.0105	+0.010	+18 50 35.0	+8.47	-0.460			-0.02	
269	75 Tauri	6	4 19 52.26		+3.421	+0.0094	+0.003	+16 1 10.2	+8.53	-0.452			+0.04	
270	76 Tauri	7	4 19 53.89		+3.394	+0.0089	+0.012	+14 24 6.8	+8.42	-0.447			-0.06	
271	δ¹ Tauri	4½	4 20 0.55		+3.413	+0.0093	+0.003	+15 37 23.5	+8.47	-0.451			-0.01	
272	δ² Tauri	4½	4 20 6.18		+3.420	+0.0093	+0.012	+15 32 0.0	+8.46	-0.451			-0.01	
273	Weis. IV. 428	8	4 20 18.98		+3.384	+0.0089		+14 28 53.6	+8.45	-0.448				
274	Rumk. 1210		4 20 24.83		+3.411	+0.0093		+15 49 23.9	+8.44	-0.451				
275	Rumk. 1212	6	4 20 41.08		+3.443	+0.0098		+17 12 36.7	+8.42	-0.456				
276	Rumk. 1214		4 20 49.64		+3.451	+0.0099		+17 31 40.8	+8.41	-0.457				
277	Rumk. 1215	7	4 20 50.95		+3.452	+0.0099		+17 33 31.3	+8.41	-0.457				
278	B.A.C. 1388	7	4 21 30.36		+3.506	+0.0105	+0.005	+19 30 30.8	+8.29	-0.464			-0.07	
279	80 Tauri	6	4 21 35.76		+3.411	+0.0091	+0.008	+15 18 19.3	+8.32	-0.451			-0.03	
280	B.A.C. 1391	5	4 21 58.61		+3.427	+0.0092	+0.011	+15 51 46.6	+8.31	-0.453			-0.01	
281	81 Tauri	5½	4 22 5.94		+3.418	+0.0091	+0.013	+15 21 40.6	+8.28	-0.452			-0.03	
282	83 Tauri	6	4 22 10.95		+3.370	+0.0084	+0.010	+13 23 38.1	+8.28	-0.446			-0.02	
283	B.A.C. 1394	7	4 22 12.23		+3.424	+0.0092	+0.008	+15 49 21.9	+8.42	-0.454			+0.12	
284	84 Tauri	7	4 22 36.69		+3.397	+0.0088	+0.005	+14 46 32.4	+8.18	-0.451			-0.09	
285	Weis. IV. 476	9	4 22 42.26		+3.383	+0.0087		+14 21 36.6	+8.26	-0.450				
286	Rumk. 1227	7	4 22 48.42		+3.405	+0.0090		+15 29 13.9	+8.25	-0.453				
287	Weis. IV. 488	9½	4 23 16.52		+3.383	+0.0086		+14 20 57.1	+8.22	-0.450				
288	85 Tauri	6	4 23 17.91		+3.416	+0.0090	+0.007	+15 31 29.8	+8.15	-0.454			-0.06	
289	Rumk. 1232		4 23 46.57		+3.424	+0.0092		+16 16 26.1	+8.17	-0.456				
290	Rumk. 1233		4 24 0.32		+3.453	+0.0096		+17 32 13.9	+8.14	-0.460				
291	Rumk. 1234		4 24 15.28		+3.489	+0.0101		+19 1 35.7	+8.13	-0.465				
292	Rumk. 1235		4 24 15.38		+3.411	+0.0090		+15 40 57.2	+8.13	-0.455				
293	B.A.C. 1406	7	4 25 3.38		+3.424	+0.0090	+0.002	+16 0 10.7	+8.04	-0.457			-0.03	
294	ε Tauri	5	4 25 20.42		+3.402	+0.0085	+0.014	+14 31 27.1	+8.02	-0.453			-0.03	
295	Lal. 8587	9	4 25 26.59		+3.393	+0.0086		+14 45 40.8	+8.02	-0.453				
296	Weis. IV. 533	9	4 25 27.15		+3.396	+0.0086		+14 50 39.2	+8.04	-0.454				
297	Weis. IV. 541	9	4 25 48.82		+3.391	+0.0085		+14 39 20.9	+8.02	-0.453				
298	Rumk. 1238	10	4 25 52.40		+3.423	+0.0090		+16 11 30.9	+8.00	-0.458				
299	Lal. 8599	9	4 26 1.42		+3.456	+0.0094		+17 26 1.8	+8.00	-0.462				
300	Weis. IV. 549	8½	4 26 2.98		+3.404	+0.0088		+15 11 12.8	+8.00	-0.455				

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a'</i>	<i>b'</i>	<i>c'</i>	<i>d'</i>		
241	+0.5341	+7.9354	+8.4878	+8.7943	+0.9484	-0.9526	+9.2183	+9.0937	1351	
242	+0.5567	+8.1173	+8.5089	+8.8157	+0.9481	-0.9527	+8.5132	+9.2543	1353	
243	+0.5285	+7.8762	+8.4831	+8.7904	+0.9477	-0.9528	+9.2981	+9.0386		
244	+0.5365	+7.9557	+8.4875	+8.7967	+0.9462	-0.9532	+9.1787	+9.1122	1356	366
245	+0.5288	+7.8766	+8.4807	+8.7912	+0.9451	-0.9534	+9.2940	+9.0388		
246	+0.5354	+7.9447	+8.4855	+8.7961	+0.9451	-0.9534	+9.1959	+9.1020		
247	+0.5349	+7.9389	+8.4841	+8.7958	+0.9447	-0.9535	+9.2049	+9.0967		
248	+0.5405	+7.9918	+8.4889	+8.8008	+0.9440	-0.9537	+9.0978	+9.1447		
249	+0.5413	+7.9943	+8.4884	+8.8013	+0.9432	-0.9539	+9.0896	+9.1468	1361	
250	+0.5509	+8.0693	+8.4967	+8.8106	+0.9424	-0.9541	+8.8215	+9.2127	1362	
251	+0.5506	+8.0671	+8.4962	+8.8104	+0.9422	-0.9541	+8.8319	+9.2108	1363	
252	+0.5381	+7.9634	+8.4833	+8.7991	+0.9409	-0.9544	+9.1514	+9.1187	1365	369
253	+0.5323	+7.9073	+8.4779	+8.7948	+0.9399	-0.9546	+9.2453	+9.0671	1366	
254	+0.5526	+8.0771	+8.4948	+8.8131	+0.9388	-0.9549	+8.7521	+9.2189	1367	370
255	+0.5308	+7.8931	+8.4751	+8.7944	+0.9380	-0.9551	+9.2617	+9.0538		
256	+0.5308	+7.8931	+8.4751	+8.7944	+0.9380	-0.9551	+9.2617	+9.0538		
257	+0.5347	+7.9306	+8.4770	+8.7975	+0.9370	-0.9553	+9.2033	+9.0884		
258	+0.5315	+7.8949	+8.4743	+8.7948	+0.9370	-0.9553	+9.2577	+9.0554	1369	371
259	+0.5356	+7.9384	+8.4772	+8.7983	+0.9366	-0.9554	+9.1887	+9.0955		
260	+0.5289	+7.8659	+8.4712	+8.7933	+0.9357	-0.9556	+9.2929	+9.0282	1370	
261	+0.5412	+7.9884	+8.4806	+8.8034	+0.9351	-0.9557	+9.0796	+9.1407		
262	+0.5532	+8.0771	+8.4915	+8.8146	+0.9349	-0.9558	+8.7210	+9.2183	1371	
263	+0.5387	+7.9645	+8.4777	+8.8012	+0.9346	-0.9559	+9.1332	+9.1191		
264	+0.5310	+7.8891	+8.4711	+8.7953	+0.9340	-0.9560	+9.2606	+9.0498		
265	+0.5311	+7.8892	+8.4693	+8.7959	+0.9320	-0.9564	+9.2571	+9.0497		
266	+0.5492	+8.0440	+8.4841	+8.8111	+0.9317	-0.9565	+8.8808	+9.1894	1373	
267	+0.5333	+7.9072	+8.4679	+8.7981	+0.9291	-0.9571	+9.2255	+9.0662		
268	+0.5421	+7.9835	+8.4743	+8.8050	+0.9287	-0.9572	+9.0723	+9.1357	1376	373
269	+0.5338	+7.9085	+8.4676	+8.7983	+0.9287	-0.9572	+9.2227	+9.0674	1377	374
270	+0.5291	+7.8599	+8.4641	+8.7950	+0.9286	-0.9572	+9.2898	+9.0221	1378	
271	+0.5327	+7.8965	+8.4662	+8.7976	+0.9281	-0.9573	+9.2401	+9.0562	1380	375
272	+0.5324	+7.8934	+8.4656	+8.7974	+0.9278	-0.9574	+9.2438	+9.0534	1381	378
273	+0.5294	+7.8607	+8.4626	+8.7955	+0.9270	-0.9575	+9.2864	+9.0227		
274	+0.5329	+7.9006	+8.4649	+8.7983	+0.9265	-0.9576	+9.2309	+9.0599		
275	+0.5369	+7.9381	+8.4670	+8.8017	+0.9254	-0.9579	+9.1643	+9.0943		
276	+0.5379	+7.9459	+8.4671	+8.8026	+0.9248	-0.9580	+9.1473	+9.1014		
277	+0.5381	+7.9467	+8.4671	+8.8027	+0.9247	-0.9586	+9.1456	+9.1020		
278	+0.5442	+7.9931	+8.4694	+8.8082	+0.9220	-0.9586	+9.0228	+9.1435	1388	
279	+0.5319	+7.8805	+8.4590	+8.7983	+0.9216	-0.9587	+9.2519	+9.0409	1390	379
280	+0.5336	+7.8953	+8.4586	+8.7998	+0.9200	-0.9590	+9.2271	+9.0545	1391	380
281	+0.5321	+7.8801	+8.4570	+8.7988	+0.9195	-0.9591	+9.2490	+9.0404	1392	381
282	+0.5264	+7.8177	+8.4529	+8.7951	+0.9192	-0.9592	+9.3249	+8.9818	1393	
283	+0.5335	+7.8932	+8.4576	+8.7999	+0.9191	-0.9592	+9.2287	+9.0525	1394	
284	+0.5305	+7.8603	+8.4537	+8.7981	+0.9174	-0.9596	+9.2723	+9.0218	1395	
285	+0.5293	+7.8470	+8.4525	+8.7973	+0.9170	-0.9596	+9.2886	+9.0093		
286	+0.5321	+7.8809	+8.4543	+8.7997	+0.9166	-0.9597	+9.2426	+9.0409		
287	+0.5293	+7.8442	+8.4500	+8.7978	+0.9146	-0.9601	+9.2885	+9.0665		
288	+0.5327	+7.8799	+8.4523	+8.8002	+0.9145	-0.9601	+9.2403	+9.0399	1402	383
289	+0.5345	+7.8994	+8.4519	+8.8022	+0.9125	-0.9605	+9.2059	+9.0578		
290	+0.5332	+7.9329	+8.4539	+8.8053	+0.9115	-0.9607	+9.1414	+9.0883		
291	+0.5427	+7.9698	+8.4565	+8.8093	+0.9104	-0.9609	+9.0502	+9.1215		
292	+0.5329	+7.8805	+8.4486	+8.8013	+0.9104	-0.9610	+9.2323	+9.0401		
293	+0.5342	+7.8863	+8.4459	+8.8027	+0.9070	-0.9616	+9.2170	+9.0452	1406	
294	+0.5239	+7.8409	+8.4416	+8.7999	+0.9058	-0.9619	+9.2797	+9.0029	1409	388
295	+0.5306	+7.8478	+8.4416	+8.8004	+0.9053	-0.9619	+9.2700	+9.0093		
296	+0.5310	+7.8503	+8.4417	+8.8006	+0.9053	-0.9619	+9.2666	+9.0116		
297	+0.5303	+7.8429	+8.4398	+8.8005	+0.9037	-0.9622	+9.2740	+9.0046		
298	+0.5344	+7.8881	+8.4427	+8.8038	+0.9035	-0.9623	+9.2070	+9.0466		
299	+0.5386	+7.9215	+8.4449	+8.8068	+0.9028	-0.9624	+9.1438	+9.0771		
300	+0.5320	+7.8681	+8.4398	+8.8018	+0.9027	-0.9624	+9.2517	+9.0187		

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s				°	'	"			
301	Lal. 8610	8	4 26	21.20	+3.438	+0.0092		+16	41	1.1	+7.96	-0.460		
302	Lal. 8613	8	4 26	24.22	+3.443	+0.0092		+16	53	9.4	+7.96	-0.461		
303	B.A.C. 1417	7	4 26	55.25	+3.501	+0.0101	-0.006	+19	34	0.7	+7.88	-0.470	-0.04	
304	α Tauri	1	4 27	19.09	+3.436	+0.0089	+0.008	+16	12	11.0	+7.74	-0.460	-0.15	
305	Weis. IV. 613	8	4 28	15.05	+3.400	+0.0084		+14	57	5.0	+7.80	-0.457		
306	Lal. 8677	8	4 28	22.99	+3.400	+0.0084		+14	57	12.2	+7.80	-0.457		
307	Lal. 8678	8	4 28	30.84	+3.476	+0.0095		+18	14	4.2	+7.79	-0.467		
308	Weis. IV. 629	8	4 29	0.00	+3.398	+0.0083		+14	50	20.2	+7.75	-0.457		
309	89 Tauri	7	4 29	34.71	+3.430	+0.0086	+0.012	+15	43	40.9	+7.71	-0.466	0.00	
310	Weis. IV. 641	9	4 29	47.37	+3.407	+0.0084		+15	12	38.8	+7.69	-0.459		
311	Lal. 8714	9	4 29	47.18	+3.482	+0.0095		+18	25	44.0	+7.69	-0.469		
312	σ^1 Tauri	5½	4 30	35.68	+3.420	+0.0084	+0.006	+15	29	56.6	+7.55	-0.460	-0.08	
313	σ^2 Tauri	5½	4 30	42.03	+3.426	+0.0084	+0.010	+15	36	56.7	+7.61	-0.461	-0.01	
314	Rumk. 1241	8	4 31	17.60	+3.428	+0.0086		+16	13	19.3	+7.57	-0.463		
315	c^2 Tauri	5½	4 31	42.69	+3.336	+0.0073	+0.004	+11	53	58.8	+7.57	-0.450	+0.03	
316	Rumk. 1243	8	4 31	48.50	+3.428	+0.0086		+16	12	59.1	+7.53	-0.463		
317	B.A.C. 1444	6	4 31	56.83	+3.746	+0.0131	+0.007	+23	19	9.7	+7.48	-0.506	-0.04	
318	Rumk. 1246	7	4 32	53.39	+3.449	+0.0087		+17	7	3.5	+7.43	-0.467		
319	Rumk. 1247	7	4 32	54.46	+3.433	+0.0085		+16	24	43.2	+7.43	-0.465		
320	Rumk. 1251	8	4 33	13.10	+3.484	+0.0092		+18	32	23.1	+7.41	-0.472		
321	τ Tauri	4½	4 33	14.84	+3.592	+0.0106	+0.003	+22	39	51.7	+7.41	-0.486	0.00	
322	Rumk. 1254	8	4 33	32.52	+3.453	+0.0085		+16	23	22.5	+7.39	-0.465		
323	Rumk. 1255	8	4 33	35.67	+3.416	+0.0082		+15	40	42.7	+7.38	-0.463		
324	Rumk. 1256	7½	4 33	35.88	+3.379	+0.0078		+14	2	3.0	+7.38	-0.458		
325	Rumk. 1258	6	4 34	6.28	+3.482	+0.0091		+18	26	0.0	+7.34	-0.473		
326	Lal. 8852	9½	4 34	19.17	+3.452	+0.0086		+17	1	23.7	+7.32	-0.469		
327	Lal. 8856	8½	4 34	26.93	+3.409	+0.0080		+15	11	51.9	+7.31	-0.463		
328	Rumk. 1263	9½	4 35	50.90	+3.420	+0.0082		+15	46	27.7	+7.20	-0.465		
329	Rumk. 1265	6	4 36	14.62	+3.387	+0.0076		+14	20	35.5	+7.17	-0.462		
330	Lal. 8914	8	4 36	48.25	+3.562	+0.0090		+19	2	51.2	+7.12	-0.477		
331	Lal. 8927	8½	4 37	10.04	+3.499	+0.0089		+18	53	58.4	+7.09	-0.477		
332	Rumk. 1268	8½	4 37	16.67	+3.418	+0.0079		+15	39	4.0	+7.08	-0.466		
333	Rumk. 1269	6½	4 37	20.31	+3.486	+0.0088		+18	31	16.1	+7.08	-0.476		
334	Lal. 8933	9	4 37	20.46	+3.497	+0.0089		+18	51	20.4	+7.08	-0.477		
335	B.A.C. 1468	6	4 37	31.41	+3.491	+0.0088	+0.003	+18	27	30.8	+6.96	-0.476	-0.10	
336	Rumk. 1274	8	4 37	56.47	+3.408	+0.0077		+15	11	42.7	+7.02	-0.445		
337	Lal. 8950	8½	4 38	4.18	+3.390	+0.0075		+14	19	10.0	+7.02	-0.463		
338	Rumk. 1275	8	4 38	12.98	+3.404	+0.0077		+15	1	28.5	+7.02	-0.465		
339	Rumk. 1276	8	4 38	23.30	+3.480	+0.0086		+18	12	45.7	+6.98	-0.465		
340	Rumk. 1278	8	4 39	11.07	+3.402	+0.0076		+14	54	56.9	+6.93	-0.466		
341	B.A.C. 1478	7½	4 39	55.41	+3.503	+0.0085	+0.013	+18	27	17.9	+6.47	-0.478	-0.40	
342	Rumk. 1283	7	4 40	2.75	+3.437	+0.0079		+16	22	3.1	+6.86	-0.471		
343	Rumk. 1285	7	4 40	24.87	+3.418	+0.0076		+15	35	41.2	+6.83	-0.469		
344	Rumk. 1286	7½	4 40	56.41	+3.419	+0.0076		+15	37	20.0	+6.77	-0.469		
345	96 Tauri	6	4 41	9.47	+3.426	+0.0076	+0.003	+15	38	15.7	+6.68	-0.470	-0.08	
346	Rumk. 1289	8	4 41	23.64	+3.412	+0.0075		+15	15	57.7	+6.73	-0.469		
347	Rumk. 1294	8	4 42	11.61	+3.428	+0.0076		+15	56	52.0	+6.67	-0.471		
348	i Tauri	5½	4 42	36.20	+3.502	+0.0083	+0.007	+18	34	46.5	+6.61	-0.481	-0.04	
349	Rumk. 1297	7	4 42	49.37	+3.410	+0.0073		+15	10	22.4	+6.62	-0.469		
350	Rumk. 1298	7½	4 42	51.55	+3.420	+0.0074		+15	37	13.7	+6.61	-0.471		
351	Rumk. 1299	7½	4 43	9.72	+3.464	+0.0079		+17	25	53.5	+6.59	-0.477		
352	Rumk. 1300	7	4 43	15.42	+3.462	+0.0079		+17	22	44.0	+6.58	-0.477		
353	Rumk. 1301	6	4 43	17.03	+3.492	+0.0082		+18	34	45.5	+6.58	-0.481		
354	Rumk. 1302	7	4 43	18.41	+3.490	+0.0082		+18	29	28.5	+6.58	-0.481		
355	B.A.C. 1518	6	4 47	7.72	+3.645	+0.0097		+24	20	44.9	+6.27	-0.505		
356	B.A.C. 1526	6	4 48	42.71	+3.462	+0.0072	+0.004	+16	54	50.3	+6.13	-0.480	-0.01	
357	99 Tauri	6½	4 48	42.93	+3.634	+0.0092	+0.004	+23	42	34.3	+6.11	-0.504	-0.03	
358	k Tauri	5½	4 48	58.90	+3.663	+0.0096	+0.004	+24	48	49.2	+6.03	-0.508	-0.09	
359	B.A.C. 1537	6½	4 50	28.62	+3.390	+0.0064	-0.006	+14	18	32.8	+5.96	-0.473	-0.03	
360	l Tauri	5	4 54	8.62	+3.581	+0.0080	+0.009	+21	22	14.1	+5.65	-0.500	-0.04	

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
301	+0.5363	+7.9008	+8.4417	+8.8053	+0.9014	-9.9627	+9.1825	+9.0572		
302	+0.5369	+7.9051	+8.4420	+8.8058	+0.9012	-9.9627	+9.1722	+9.0620		
303	+0.5450	+7.9713	+8.4464	+8.8129	+0.8989	-9.9632	+9.0052	+9.1216	1417	
304	+0.5350	+7.8821	+8.4364	+8.8050	+0.8971	-9.9635	+9.2047	+9.0406	1420	392
305	+0.5315	+7.8412	+8.4296	+8.8031	+0.8930	-9.9642	+9.2592	+9.0624		
306	+0.5315	+7.8407	+8.4290	+8.8032	+0.8924	-9.9643	+9.2590	+9.0018		
307	+0.5411	+7.9313	+8.4359	+8.8107	+0.8918	-9.9644	+9.0929	+9.0850		
308	+0.5312	+7.8344	+8.4269	+8.8035	+0.8896	-9.9648	+9.2631	+8.9958		
309	+0.5338	+7.8583	+8.4252	+8.8058	+0.8870	-9.9653	+9.2240	+9.0178	1432	
310	+0.5324	+7.8421	+8.4232	+8.8049	+0.8860	-9.9654	+9.2866	+9.0027		
311	+0.5418	+7.9305	+8.4306	+8.8122	+0.8860	-9.9654	+9.0782	+9.0837		
312	+0.5332	+7.8470	+8.4201	+8.8061	+0.8823	-9.9661	+9.2330	+9.0070	1436	
313	+0.5336	+7.8499	+8.4199	+8.8064	+0.8818	-9.9662	+9.2276	+9.0097	1437	
314	+0.5350	+7.8646	+8.4184	+8.8082	+0.8791	-9.9666	+9.1986	+9.0230		
315	+0.5227	+7.7226	+8.4083	+8.8003	+0.8772	-9.9669	+9.3683	+8.8892	1442	396
316	+0.5350	+7.8620	+8.4160	+8.8086	+0.8767	-9.9670	+9.1982	+9.0265		
317	+0.5277	+8.1292	+8.4531	+8.8464	+0.8761	-9.9671	-8.7619	+9.2500	1444	398
318	+0.5377	+7.8818	+8.4130	+8.8114	+0.8716	-9.9678	+9.1504	+9.0382		
319	+0.5357	+7.8634	+8.4113	+8.8098	+0.8715	-9.9679	+9.1871	+9.0204		
320	+0.5421	+7.9172	+8.4149	+8.8152	+0.8700	-9.9681	+9.0644	+9.0701		
321	+0.5550	+8.0123	+8.4265	+8.8269	+0.8699	-9.9681	+8.6274	+9.1535	1449	400
322	+0.5357	+7.8587	+8.4082	+8.8103	+0.8685	-9.9683	+9.2040	+9.0168		
323	+0.5335	+7.8382	+8.4064	+8.8088	+0.8682	-9.9684	+9.2215	+8.9978		
324	+0.5288	+7.7878	+8.4031	+8.8055	+0.8682	-9.9684	+9.2012	+8.9567		
325	+0.5418	+7.9103	+8.4104	+8.8155	+0.8658	-9.9688	+9.0698	+9.0635		
326	+0.5381	+7.8724	+8.4059	+8.8123	+0.8647	-9.9689	+9.1535	+9.0290		
327	+0.5326	+7.8198	+8.4013	+8.8084	+0.8641	-9.9690	+9.2422	+8.9805		
328	+0.5340	+7.8300	+8.3957	+8.8106	+0.8573	-9.9700	+9.2129	+8.9894		
329	+0.5298	+7.7848	+8.3908	+8.8080	+0.8553	-9.9703	+9.2766	+8.9471		
330	+0.5432	+7.9121	+8.3987	+8.8191	+0.8526	-9.9707	+9.0216	+9.0640		
331	+0.5439	+7.9069	+8.3965	+8.8190	+0.8507	-9.9710	+9.0317	+9.0589		
332	+0.5338	+7.8193	+8.3883	+8.8114	+0.8502	-9.9711	+9.2187	+8.9790		
333	+0.5423	+7.8966	+8.3947	+8.8181	+0.8499	-9.9711	+9.0579	+9.0496		
334	+0.5437	+7.9050	+8.3955	+8.8190	+0.8499	-9.9711	+9.0345	+9.0571		
335	+0.5426	+7.8941	+8.3936	+8.8181	+0.8490	-9.9713	+9.0618	+9.0473	1468	
336	+0.5325	+7.8025	+8.3840	+8.8109	+0.8468	-9.9715	+9.2387	+8.9631		
337	+0.5302	+7.7749	+8.3816	+8.8093	+0.8462	-9.9716	+9.2759	+8.9372		
338	+0.5320	+7.7959	+8.3823	+8.8108	+0.8455	-9.9717	+9.2460	+8.9569		
339	+0.5416	+7.8835	+8.3886	+8.8181	+0.8446	-9.9719	+9.0765	+9.0373		
340	+0.5317	+7.7876	+8.3771	+8.8112	+0.8465	-9.9724	+9.2489	+8.9489		
341	+0.5428	+7.8818	+8.3813	+8.8198	+0.8367	-9.9729	+9.0577	+9.0349	1478	
342	+0.5362	+7.8256	+8.3757	+8.8149	+0.8360	-9.9730	+9.1865	+8.9837		
343	+0.5338	+7.8016	+8.3721	+8.8135	+0.8341	-9.9733	+9.2180	+8.9614		
344	+0.5339	+7.7996	+8.3694	+8.8139	+0.8314	-9.9736	+9.2161	+8.9594		403
345	+0.5344	+7.7989	+8.3683	+8.8141	+0.8302	-9.9738	+9.2154	+8.9586	1485	404
346	+0.5330	+7.7867	+8.3662	+8.8135	+0.8289	-9.9739	+9.2421	+8.9472		
347	+0.5350	+7.8024	+8.3634	+8.8154	+0.8247	-9.9745	+9.1991	+8.9614		
348	+0.5434	+7.8707	+8.3674	+8.8219	+0.8225	-9.9748	+9.0442	+9.0235	1493	405
349	+0.5328	+7.7762	+8.3584	+8.8142	+0.8213	-9.9749	+9.2350	+8.9369		
350	+0.5340	+7.7893	+8.3591	+8.8152	+0.8211	-9.9749	+9.2142	+8.9491		
351	+0.5396	+7.8381	+8.3616	+8.8195	+0.8195	-9.9751	+9.1177	+8.9937		
352	+0.5393	+7.8361	+8.3609	+8.8204	+0.8189	-9.9752	+9.1207	+8.9919		
353	+0.5431	+7.8670	+8.3627	+8.8224	+0.8188	-9.9752	+9.0429	+9.0198		
354	+0.5428	+7.8646	+8.3634	+8.8222	+0.8186	-9.9752	+9.0491	+9.0177		
355	+0.5617	+7.9745	+8.3594	+8.8420	+0.7973	-9.9777	+7.5798	+9.1102	1518	
356	+0.5388	+7.7927	+8.3289	+8.8218	+0.7880	-9.9786	+9.1405	+8.9496	1526	
357	+0.5599	+7.9523	+8.3480	+8.8409	+0.7880	-9.9786	+8.1614	+9.0901	1527	
358	+0.5634	+7.9731	+8.3502	+8.8448	+0.7864	-9.9788	-7.7634	+9.1071	1528	411
359	+0.5310	+7.7058	+8.3129	+8.8173	+0.7775	-9.9797	+9.2662	+8.8682	1537	
360	+0.5530	+7.8689	+8.3073	+8.8367	+0.7547	-9.9818	+8.7372	+9.0141	1551	417

No.	Name.	Mag.	Mean Right Ascension 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.
361	11 Orionis	5	h m s	s	s	s	° ' "	"	"	"
362	B.A.C. 1563	6½	4 56 0.08	+3.424	+0.0062	+0.004	+15 11 25.0	+5.49	-0.479	-0.04
363	m Tauri	5½	4 56 41.90	+3.529	+0.0071	0.000	+19 35 40.3	+5.39	-0.495	-0.08
364	l Tauri	5½	4 58 35.47	+3.546	+0.0067	+0.045	+18 26 19.5	+5.34	-0.492	+0.03
365	105 Tauri	6	4 58 56.01	+3.547	+0.0071	+0.001	+20 12 54.0	+5.23	-0.499	-0.05
366	103 Tauri	6	4 58 57.53	+3.582	+0.0074	+0.003	+21 30 8.1	+5.32	-0.504	+0.04
367	15 Orionis	5½	5 1 7.03	+3.430	+0.0057	+0.003	+15 24 3.3	+5.12	-0.483	+0.02
368	B.A.C. 1601	6½	5 3 5.05	+3.450	+0.0056	+0.011	+15 51 16.5	+4.83	-0.486	-0.10
369	n Tauri	6	5 10 16.03	+3.602	+0.0062	+0.006	+21 56 11.7	+4.37	-0.512	+0.05
370	B.A.C. 1648	6½	5 11 34.46	+3.761	+0.0074	+0.001	+27 47 58.4	+4.15	-0.536	-0.06
371	B.A.C. 1649	6½	5 11 40.42	+3.810	+0.0079	+0.002	+29 24 39.4	+4.08	-0.543	-0.12
372	B.A.C. 1651	6½	5 12 5.13	+3.542	+0.0056	+0.004	+19 39 23.1	+4.09	-0.505	-0.07
373	111 Tauri	6	5 15 40.41	+3.498	+0.0047	+0.020	+17 14 24.1	+3.90	-0.498	+0.04
374	β Tauri	2	5 16 48.80	+3.791	+0.0068	+0.008	+28 28 30.6	+3.57	-0.542	-0.19
375	113 Tauri	6	5 17 25.91	+3.468	+0.0044	+0.007	+16 33 43.9	+3.71	-0.496	+0.01
376	115 Tauri	5½	5 18 25.21	+3.495	+0.0046	+0.001	+17 49 41.9	+3.62	-0.501	0.00
377	o Tauri	6	5 18 37.61	+3.602	+0.0052	+0.005	+21 48 12.6	+3.63	-0.516	+0.03
378	116 Tauri	6	5 19 8.65	+3.447	+0.0041	-0.005	+15 44 32.2	+3.54	-0.494	-0.02
379	117 Tauri	6	5 19 19.39	+3.483	+0.0043	+0.007	+17 6 35.6	+3.49	-0.499	-0.05
380	B.A.C. 1709	6½	5 20 8.99	+3.804	+0.0065	+0.002	+29 3 40.3	+3.42	-0.546	-0.05
381	119 Tauri	5½	5 23 25.31	+3.516	+0.0041	+0.004	+18 28 38.8	+3.20	-0.506	+0.01
382	B.A.C. 1728	6½	5 23 32.86	+3.473	+0.0038		+16 56 26.5	+3.18	-0.500	
383	B.A.C. 1733	6½	5 24 43.80	+3.558	+0.0042	-0.003	+20 21 41.5	+2.97	-0.513	-0.10
384	120 Tauri	6	5 24 44.31	+3.518	+0.0039	+0.007	+18 25 41.0	+3.13	-0.506	+0.06
385	121 Tauri	6	5 26 17.65	+3.663	+0.0046	+0.005	+23 56 5.3	+2.92	-0.528	-0.02
386	B.A.C. 1746	6½	5 26 30.81	+3.760	+0.0052	-0.001	+27 33 35.0	+2.86	-0.543	-0.06
387	122 Tauri	6	5 28 21.68	+3.482	+0.0033	+0.008	+16 56 36.0	+2.76	-0.502	0.00
388	τ Tauri	3½	5 28 40.96	+3.585	+0.0038	+0.005	+21 2 45.6	+2.71	-0.517	-0.02
389	26 Aurigæ	6	5 29 0.33	+3.846	+0.0053	-0.002	+30 23 51.8	+2.69	-0.556	-0.01
390	B.A.C. 1772	6	5 29 46.19	+3.809	+0.0049		+29 7 24.6	+2.64	-0.551	
391	B.A.C. 1774	6	5 30 8.36	+3.643	+0.0040	+0.003	+23 13 54.6	+2.58	-0.526	-0.03
392	125 Tauri	6½	5 30 26.63	+3.718	+0.0042	+0.006	+25 48 26.8	+2.57	-0.537	-0.01
393	126 Tauri	5½	5 32 37.69	+3.468	+0.0029	+0.005	+16 27 7.1	+2.41	-0.501	+0.02
394	128 Tauri	6	5 36 14.79	+3.455	+0.0024	+0.003	+16 1 3.8	+2.16	-0.501	+0.08
395	129 Tauri	6	5 38 7.97	+3.451	+0.0022	+0.005	+15 45 31.9	+1.93	-0.500	+0.02
396	130 Tauri	6	5 38 41.51	+3.496	+0.0023	-0.001	+17 40 4.1	+1.86	-0.508	0.00
397	B.A.C. 1835	6½	5 39 25.39	+3.572	+0.0025	-0.005	+20 48 42.1	+1.69	-0.520	-0.11
398	132 Tauri	5½	5 39 48.76	+3.683	+0.0028	+0.005	+24 30 42.1	+1.75	-0.534	-0.01
399	136 Tauri	5	5 43 54.04	+3.771	+0.0025	+0.004	+27 34 15.4	+1.35	-0.548	-0.06
400	χ ¹ Orionis	4½	5 45 30.03	+3.552	+0.0017	-0.011	+20 14 35.3	+1.17	-0.519	-0.10
401	χ ² Orionis	6	5 46 4.05	+3.554	+0.0017	+0.005	+19 42 54.9	+1.23	-0.517	+0.01
402	B.A.C. 1882	6½	5 47 2.07	+3.807	+0.0022	-0.001	+28 54 45.0	+1.12	-0.555	-0.01
403	139 Tauri	5½	5 48 41.35	+3.725	+0.0017	+0.005	+25 55 47.3	+0.99	-0.542	0.00
404	141 Tauri	6	5 52 38.12	+3.623	+0.0010	+0.002	+22 23 28.0	+0.64	-0.528	0.00
405	B.A.C. 1930	6½	5 54 12.54	+3.496	+0.0007		+17 39 40.1	+0.51	-0.510	
406	χ ³ Orionis	5	5 54 34.74	+3.559	+0.0007	+0.010	+19 41 13.9	+0.43	-0.517	-0.04
407	1 Geminor.	5	5 55 0.15	+3.648	+0.0006	+0.003	+23 15 57.4	+0.33	-0.532	-0.11
408	χ ⁴ Orionis	5	5 55 0.77	+3.565	+0.0006	+0.004	+20 8 12.0	+0.40	-0.519	-0.04
409	2 Geminor.	6½	5 57 39.96	+3.658	+0.0004	+0.002	+23 38 49.5	+0.15	-0.533	-0.05
410	B.A.C. 1970	6½	6 0 29.68	+3.610	-0.0000	-0.007	+22 12 35.7	-0.03	-0.527	+0.01
411	3 Geminor.	6	6 0 37.47	+3.648	-0.0000	+0.006	+23 7 56.2	-0.07	-0.531	-0.02
412	5 Geminor.	6	6 2 20.32	+3.682	-0.0004	+0.004	+24 26 50.6	-0.29	-0.536	-0.08
413	68 Orionis	6	6 3 8.34	+3.560	-0.0004	+0.008	+19 49 6.6	-0.34	-0.518	-0.06
414	6 Geminor.	6	6 3 13.31	+3.638	-0.0004	+0.002	+22 56 12.0	-0.30	-0.530	-0.02
415	φ ¹ Orionis	6	6 3 24.33	+3.461	-0.0003	+0.003	+16 9 35.9	-0.28	-0.504	+0.02
416	κ Aurigæ	4½	6 5 49.14	+3.828	-0.0009	0.000	+29 32 51.2	-0.80	-0.558	-0.29
417	η Geminor.	3½	6 5 49.36	+3.624	-0.0008	-0.002	+22 32 41.8	-0.52	-0.529	-0.01
418	71 Orionis	5½	6 6 1.39	+3.534	-0.0007	-0.002	+19 12 5.9	-0.79	-0.516	-0.26
419	φ ² Orionis	6	6 6 46.30	+3.466	-0.0007	+0.007	+16 11 6.6	-0.54	-0.504	+0.05
420	μ Geminor.	3	6 13 53.13	+3.636	-0.0018	+0.010	+22 35 6.8	-1.34	-0.528	-0.13

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
361	+0.5340	+7.6980	+8.2797	+8.8222	+0.7426	-9.9828	+9.2225	+8.8587	1557	420
362	+0.5476	+7.8110	+8.2855	+8.8330	+0.7379	-9.9832	+8.9350	+8.9612	1563	
363	+0.5441	+7.7697	+8.2696	+8.8310	+0.7251	-9.9842	+9.0282	+8.9229	1568	
364	+0.5497	+7.8105	+8.2720	+8.8359	+0.7227	-9.9844	+8.8686	+8.9590	1570	
365	+0.5537	+7.8397	+8.2755	+8.8397	+0.7225	-9.9844	+8.7007	+8.9844	1571	
366	+0.5619	+7.8940	+8.2836	+8.8478	+0.7224	-9.9844	+7.4624	+9.0306	1572	421
367	+0.5349	+7.6690	+8.2448	+8.8253	+0.7072	-9.9855	+9.2082	+8.8292	1591	426
368	+0.5364	+7.6678	+8.2313	+8.8272	+0.6923	-9.9865	+9.1838	+8.8271	1601	
369	+0.5559	+7.7620	+8.1896	+8.8462	+0.6353	-9.9897	+8.5763	+8.9054	1637	436
370	+0.5752	+7.8676	+8.1988	+8.8674	+0.6239	-9.9902	-8.8579	+8.9904	1648	
371	+0.5807	+7.8958	+8.2046	+8.8741	+0.6230	-9.9903	-9.0095	+9.0119	1649	
372	+0.5487	+7.6939	+8.1671	+8.8404	+0.6193	-9.9904	+8.9009	+8.8440	1651	
373	+0.5413	+7.5995	+8.1276	+8.8357	+0.5860	-9.9918	+9.0920	+8.7556	1671	
374	+0.5778	+7.8308	+8.1525	+8.8722	+0.5748	-9.9922	-8.9385	+8.9509	1681	453
375	+0.5393	+7.5636	+8.1087	+8.8348	+0.5686	-9.9925	+9.1329	+8.7213	1689	
376	+0.5433	+7.5876	+8.1016	+8.8381	+0.5585	-9.9928	+9.0492	+8.7423	1692	
377	+0.5559	+7.6802	+8.1103	+8.8490	+0.5564	-9.9929	+8.5740	+8.8240	1695	456
378	+0.5368	+7.5228	+8.0893	+8.8336	+0.5510	-9.9931	+9.1781	+8.6822	1701	
379	+0.5410	+7.5591	+8.0905	+8.8367	+0.5491	-9.9931	+9.0976	+8.7155	1702	
380	+0.5801	+7.8068	+8.1204	+8.8758	+0.5403	-9.9934	-8.9961	+8.9245	1709	
381	+0.5455	+7.5491	+8.0481	+8.8413	+0.5034	-9.9944	+8.9943	+8.7022	1726	462
382	+0.5407	+7.5074	+8.0429	+8.8377	+0.5019	-9.9945	+9.1052	+8.6642	1728	
383	+0.5516	+7.5790	+8.0374	+8.8468	+0.4877	-9.9948	+8.7993	+8.7270	1733	
384	+0.5454	+7.5320	+8.0321	+8.8416	+0.4876	-9.9948	+8.9970	+8.6852	1734	465
385	+0.5632	+7.6371	+8.0289	+8.8582	+0.4682	-9.9953	-7.6721	+8.7742	1742	
386	+0.5753	+7.7046	+8.0394	+8.8716	+0.4654	-9.9954	-8.8633	+8.8284	1746	
387	+0.5408	+7.4464	+7.9818	+8.8390	+0.4409	-9.9959	+9.1018	+8.6032	1764	
388	+0.5539	+7.5434	+7.9821	+8.8498	+0.4365	-9.9959	+8.6920	+8.6895	1767	474
389	+0.5852	+7.7221	+8.0180	+8.8841	+0.4320	-9.9960	-9.1042	+8.8340	1768	476
390	+0.5808	+7.6889	+8.0016	+8.8788	+0.4212	-9.9962	-9.0145	+8.8063	1772	
391	+0.5611	+7.5703	+7.9743	+8.8569	+0.4159	-9.9963	+7.8865	+8.7097	1774	
392	+0.5606	+7.6177	+7.9788	+8.8659	+0.4115	-9.9964	-8.6128	+8.7481	1778	478
393	+0.5394	+7.3703	+7.9182	+8.8390	+0.3783	-9.9969	+9.1303	+8.5282	1792	
394	+0.5381	+7.2967	+7.8559	+8.8388	+0.3170	-9.9977	+9.1541	+8.4556	1810	
395	+0.5373	+7.2534	+7.8195	+8.8386	+0.2811	-9.9980	+9.1632	+8.4128	1821	487
396	+0.5434	+7.2948	+7.8126	+8.8430	+0.2700	-9.9981	+9.0465	+8.4499	1828	
397	+0.5535	+7.3564	+7.8058	+8.8515	+0.2548	-9.9983	+8.7135	+8.5032	1835	
398	+0.5656	+7.4272	+7.8093	+8.8632	+0.2465	-9.9983	-8.2672	+8.5623	1837	493
399	+0.5760	+7.3880	+7.7925	+8.8752	+0.1485	-9.9989	-8.8865	+8.5117	1863	502
400	+0.5518	+7.1915	+7.7524	+8.8507	+0.1031	-9.9991	+8.7917	+8.3399	1876	506
401	+0.5501	+7.1618	+7.6337	+8.8493	+0.0858	-9.9992	+8.8561	+8.3117	1880	
402	+0.5807	+7.3185	+7.6341	+8.8810	+0.0546	-9.9993	-9.0120	+8.4368	1882	
403	+0.5705	+7.2039	+7.5631	+8.8695	+9.9954	-9.9995	-8.6665	+8.3339	1896	515
404	+0.5588	+6.9456	+7.3647	+8.8577	+9.8090	-9.9998	+8.3096	+8.0876	1925	520
405	+0.5436	+6.7294	+7.2474	+8.8447	+9.7048	-9.9999	+9.0422	+7.8845	1930	
406	+0.5501	+6.7518	+7.2243	+8.8500	+9.6764	-9.9999	+8.8561	+7.9017	1934	
407	+0.5617	+6.7957	+7.1991	+8.8607	+9.6406	-9.9999	+7.5798	+7.9350	1938	521
408	+0.5515	+6.7258	+7.1889	+8.8512	+9.6398	-9.9999	+8.8007	+7.8745	1939	522
409	+0.5630	+6.4730	+6.8698	+8.8620	+9.3100	-0.0000	-7.5563	+7.6110	1951	526
410	+0.5583	-5.7688	-6.1913	+8.8574	-8.6362	-0.0000	+8.3766	-6.9114	1970	
411	+0.5613	-5.8906	-6.2064	+8.8603	-8.7383	-0.0000	+7.7924	-7.0303	1971	529
412	+0.5657	-6.4904	-6.8735	+8.8647	-9.3110	-0.0000	-8.2742	-7.6257	1981	
413	+0.5505	-6.5175	-6.9873	+8.8504	-9.4391	-0.0000	+8.8407	-7.6671	1986	532
414	+0.5607	-6.5984	-7.0076	+8.8596	-9.4502	-0.0000	+8.0000	-7.7387	1987	
415	+0.5388	-6.4580	-7.0134	+8.8414	-9.4742	-0.0000	+9.1415	-7.6165	1989	
416	+0.5830	-6.9822	-7.2892	+8.8843	-9.7070	-9.9999	-9.0626	-8.0978	2001	534
417	+0.5594	-6.8469	-7.2632	+8.8533	-9.7070	-9.9999	+8.2430	-7.9885	2002	535
418	+0.5485	-6.7854	-7.2683	+8.8486	-9.7217	-9.9999	+8.9085	-7.9366	2004	536
419	+0.5389	-6.7572	-7.3120	+8.8413	-9.7727	-9.9998	+9.1405	-7.9157	2009	
420	+0.5594	-7.2251	-7.6407	+8.8578	-0.0843	-9.9992	+8.2406	-8.3665	2047	550

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s				°	'	"			
421	15 Geminor.	8	6 18	49.01	+3.579	-0.0023		+20	52	5.3	-1.65	-0.520	"	
422	15 Geminor.	6	6 18	50.15	+3.579	-0.0023	0.000	+20	52	35.3	-1.69	-0.520	-0.04	
423	48 Aurigæ	5½	6 18	55.44	+3.860	-0.0032	+0.002	+30	34	47.3	-1.69	-0.561	-0.04	
424	16 Geminor.	6	6 19	1.41	+3.572	-0.0023	+0.001	+20	34	50.0	-1.70	-0.519	-0.04	
425	ν Geminor.	4½	6 20	3.35	+3.566	-0.0024	+0.003	+20	18	6.7	-1.78	-0.518	-0.03	
426	B.A.C. 2097	6½	6 20	54.06	+3.790	-0.0033	+0.002	+28	18	19.5	-1.93	-0.550	-0.10	
427	19 Geminor.	6½	6 22	59.83	+3.455	-0.0024	+0.003	+16	0	14.7	-2.00	-0.501	+0.01	
428	49 Aurigæ	5½	6 25	45.18	+3.784	-0.0041	+0.003	+28	8	1.5	-2.27	-0.548	-0.02	
429	23 Geminor.	6½	6 27	20.94	+3.478	-0.0029	+0.004	+16	54	51.2	-2.37	-0.503	+0.02	
430	B.A.C. 2154	6½	6 28	15.44	+3.692	-0.0039	+0.011	+24	42	32.0	-2.57	-0.533	-0.10	
431	53 Aurigæ	6½	6 28	52.10	+3.809	-0.0047	0.000	+29	6	24.1	-2.56	-0.551	-0.04	
432	γ Geminor.	2½	6 29	2.74	+3.469	-0.0031	+0.005	+16	31	20.7	-2.56	-0.501	-0.02	
433	54 Aurigæ	6	6 30	5.44	+3.788	-0.0048	+0.001	+28	23	24.4	-2.67	-0.548	-0.04	
434	26 Geminor.	5½	6 33	40.17	+3.499	-0.0037	+0.004	+17	47	13.1	-3.01	-0.504	-0.07	
435	ε Geminor.	3½	6 34	42.13	+3.700	-0.0050	+0.005	+25	16	27.3	-3.05	-0.533	-0.02	
436	28 Geminor.	6	6 35	15.09	+3.810	-0.0058	+0.003	+29	7	1.5	-3.10	-0.549	-0.03	
437	33 Geminor.	6	6 41	11.71	+3.459	-0.0043	+0.002	+16	22	10.1	-3.53	-0.496	+0.06	
438	δ Geminor.	6	6 42	33.58	+3.607	-0.0053	+0.007	+21	55	59.6	-3.72	-0.516	-0.02	
439	B.A.C. 2238	6	6 42	54.07	+3.649	-0.0057		+23	46	26.4	-3.73	-0.523		
440	37 Geminor.	6	6 46	5.09	+3.696	-0.0065	-0.001	+25	33	28.3	-4.00	-0.528	+0.01	
441	39 Geminor.	6½	6 49	32.52	+3.706	-0.0072	-0.009	+26	16	23.5	-4.20	-0.529	+0.10	
442	40 Geminor.	6½	6 50	12.03	+3.711	-0.0072	+0.001	+26	6	44.3	-4.35	-0.528	+0.01	
443	41 Geminor.	6½	6 51	38.51	+3.453	-0.0053	+0.002	+16	16	55.4	-4.44	-0.491	+0.04	
444	ω Geminor.	6	6 53	16.24	+3.664	-0.0072	+0.003	+24	25	27.1	-4.63	-0.520	-0.01	
445	B.A.C. 2301	6½	6 53	58.18	+3.823	-0.0088	+0.014	+29	34	59.1	-5.40	-0.540	-0.72	
446	ζ Geminor.	4	6 55	12.57	+3.567	-0.0065	+0.004	+20	47	7.8	-4.80	-0.505	-0.01	
447	44 Geminor.	6½	6 56	16.38	+3.620	-0.0072	+0.003	+22	51	24.5	-4.90	-0.512	-0.02	
448	45 Geminor.	6	6 59	45.74	+3.447	-0.0060	+0.002	+16	9	59.0	-5.24	-0.485	-0.07	
449	τ Geminor.	4½	7 1	35.20	+3.831	-0.0103	+0.002	+30	29	7.9	-5.39	-0.538	-0.06	
450	47 Geminor.	6	7 2	4.62	+3.732	-0.0092	+0.002	+27	5	53.0	-5.39	-0.524	-0.02	
451	48 Geminor.	6	7 3	19.38	+3.657	-0.0085	+0.004	+24	22	29.0	-5.48	-0.513	-0.01	
452	51 Geminor.	6	7 4	45.34	+3.454	-0.0066	+0.005	+16	24	31.1	-5.58	-0.483	+0.01	
453	52 Geminor.	6	7 5	31.25	+3.679	-0.0090	+0.006	+25	8	20.9	-5.82	-0.514	-0.16	
454	53 Geminor.	6	7 6	34.83	+3.758	-0.0102	+0.002	+28	9	11.6	-5.75	-0.525	0.00	
455	λ Geminor.	3½	7 9	28.22	+3.458	-0.0070	+0.002	+16	48	22.3	-5.99	-0.481	0.00	
456	δ Geminor.	3½	7 11	9.67	+3.597	-0.0088	+0.005	+22	15	12.5	-6.14	-0.499	-0.01	
457	56 Geminor.	5½	7 13	5.63	+3.553	-0.0085	+0.002	+20	43	20.3	-6.29	-0.492	0.00	
458	A Geminor.	5½	7 14	19.59	+3.671	-0.0102	0.000	+25	20	1.8	-6.41	-0.507	-0.02	
459	B.A.C. 2432	6½	7 14	21.69	+3.500	-0.0080	+0.004	+18	33	23.8	-6.52	-0.483	-0.13	
460	59 Geminor.	6½	7 15	13.08	+3.744	-0.0113	+0.003	+27	55	20.8	-6.45	-0.517	+0.02	
461	i Geminor.	4	7 16	24.30	+3.742	-0.0116	-0.003	+28	5	27.5	-6.65	-0.516	-0.09	
462	63 Geminor.	5½	7 18	49.95	+3.572	-0.0095	-0.001	+21	44	50.3	-6.84	-0.491	-0.08	
463	b¹ Geminor.	5½	7 19	59.26	+3.753	-0.0121	+0.002	+28	25	21.4	-6.90	-0.514	-0.04	
464	b² Geminor.	5½	7 20	28.71	+3.747	-0.0121	+0.003	+28	13	14.8	-6.91	-0.513	-0.01	
465	B.A.C. 2472	6	7 21	19.70	+3.745	-0.0123	+0.002	+28	13	18.2	-6.69	-0.512	+0.28	
466	68 Geminor.	5½	7 25	2.65	+3.433	-0.0083	+0.002	+16	8	41.0	-7.23	-0.466	+0.04	
467	v Geminor.	4½	7 26	40.44	+3.714	-0.0125	+0.004	+27	13	27.0	-7.49	-0.503	-0.08	
468	B.A.C. 2514	6½	7 30	7.77	+3.632	-0.0118	-0.003	+24	33	25.0	-7.76	-0.490	-0.07	
469	f Geminor.	6	7 30	48.62	+3.477	-0.0093	+0.005	+18	0	40.5	-7.73	-0.467	+0.01	
470	B.A.C. 2537	6½	7 33	27.33	+3.380	-0.0082	+0.007	+13	49	35.4	-8.02	-0.452	-0.07	
471	σ Geminor.	5	7 33	55.80	+3.764	-0.0143	+0.007	+29	14	29.2	-8.23	-0.503	-0.24	
472	c Geminor.	6	7 34	57.64	+3.675	-0.0130	+0.004	+26	8	10.8	-8.08	-0.490	-0.01	
473	x Geminor.	3½	7 35	23.14	+3.634	-0.0124	0.000	+24	45	10.5	-8.16	-0.485	-0.05	
474	β Geminor.	1½	7 36	7.81	+3.682	-0.0142	-0.048	+28	23	1.1	-8.23	-0.497	-0.06	
475	g Geminor.	5½	7 37	26.02	+3.485	-0.0103	-0.002	+18	52	16.5	-8.31	-0.463	-0.04	
476	84 Geminor.	6½	7 44	6.38	+3.578	-0.0124	+0.004	+22	43	3.1	-8.73	-0.468	+0.07	
477	φ Geminor.	5	7 44	18.61	+3.688	-0.0146	+0.002	+27	8	56.6	-8.85	-0.483	-0.03	
478	85 Geminor.	6½	7 46	54.29	+3.513	-0.0116	+0.001	+20	16	31.5	-9.06	-0.457	-0.04	
479	1 Caneri	6	7 48	23.23	+3.420	-0.0101	+0.004	+16	11	11.1	-9.14	-0.443	0.00	
480	ω¹ Caneri	6	7 51	50.95	+3.646	-0.0146	+0.004	+25	47	56.8	-9.39	-0.469	+0.01	

ZODIACAL STARS.



No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
421	+0.5537	-7.3196	-7.7677	+8.8519	-0.2165	-9.9985	+8.7016	-8.4662		554
422	+0.5537	-7.3196	-7.7677	+8.8519	-0.2165	-9.9985	+8.7016	-8.4662	2080	555
423	+0.5864	-7.5118	-7.8053	+8.8875	-0.2186	-9.9985	-9.1252	-8.6229	2082	556
424	+0.5528	-7.3171	-7.7712	+8.8511	-0.2208	-9.9985	+8.7482	-8.4646	2084	
425	+0.5519	-7.3336	-7.7933	+8.8501	-0.2437	-9.9983	+8.7882	-8.4818	2090	560
426	+0.5784	-7.5145	-7.8386	+8.8774	-0.2616	-9.9982	-8.9547	-8.6353	2097	
427	+0.5381	-7.2823	-7.8419	+8.8389	-0.3030	-9.9978	+9.1547	-8.4412	2111	
428	+0.5776	-7.6017	-7.9282	+8.8758	-0.3519	-9.9973	-8.9340	-8.7232	2133	574
429	+0.5409	-7.3827	-7.9189	+8.8400	-0.3780	-9.9969	+9.1014	-8.5395	2149	
430	+0.5660	-7.5766	-7.9555	+8.8623	-0.3921	-9.9967	-8.3139	-8.7110	2154	
431	+0.5808	-7.6687	-7.9816	+8.8791	-0.4013	-9.9966	-9.0145	-8.7861	2161	
432	+0.5396	-7.3979	-7.9440	+8.8387	-0.4040	-9.9965	+9.1268	-8.5537	2163	579
433	+0.5783	-7.6737	-7.9966	+8.8758	-0.4192	-9.9963	-8.9523	-8.7941	2170	
434	+0.5434	-7.4957	-8.0107	+8.8405	-0.4677	-9.9953	+9.0453	-8.6505	2191	584
435	+0.5676	-7.6765	-8.0461	+8.8626	-0.4807	-9.9950	-8.4728	-8.8089	2194	587
436	+0.5805	-7.7550	-8.0679	+8.8774	-0.4875	-9.9948	-9.0078	-8.8725	2197	
437	+0.5387	-7.5442	-8.0942	+8.8348	-0.5546	-9.9930	+9.1433	-8.7023	2228	
438	+0.5563	-7.6952	-8.1229	+8.8490	-0.5685	-9.9925	+8.5502	-8.8386	2233	
439	+0.5622	-7.7376	-8.1322	+8.8548	-0.5720	-9.9924	+7.0000	-8.8752	2238	
440	+0.5679	-7.8040	-8.1691	+8.8598	-0.6027	-9.9912	-8.4942	-8.9353	2254	
441	+0.5700	-7.8487	-8.2027	+8.8610	-0.6336	-9.9898	-8.6355	-8.9775	2275	
442	+0.5694	-7.8513	-8.2077	+8.8602	-0.6393	-9.9895	-8.6010	-8.9806	2278	611
443	+0.5380	-7.6386	-8.1908	+8.8306	-0.6514	-9.9889	+9.1563	-8.7969	2285	
444	+0.5637	-7.8435	-8.2270	+8.8528	-0.6646	-9.9882	-7.8633	-8.9788	2299	617
445	+0.5808	-7.9460	-8.2525	+8.8724	-0.6702	-9.9879	-9.0116	-9.0614	2301	622
446	+0.5519	-7.7808	-8.2308	+8.8404	-0.6799	-9.9873	+8.7860	-8.9277	2305	626
447	+0.5584	-7.8345	-8.2452	+8.8462	-0.6880	-9.9868	+8.9636	-8.9751	2313	
448	+0.5372	-7.6975	-8.2527	+8.8265	-0.7135	-9.9851	+9.1697	-8.8560	2330	
449	+0.5831	-8.0179	-8.3126	+8.8726	-0.7263	-9.9841	-9.0611	-9.1294	2340	638
450	+0.5717	-7.9604	-8.3018	+8.8583	-0.7297	-9.9839	-8.7210	-9.0859	2343	640
451	+0.5627	-7.9150	-8.3003	+8.8477	-0.7381	-9.9832	-7.2553	-9.0515	2350	
452	+0.5377	-7.7383	-8.2873	+8.8244	-0.7475	-9.9824	+9.1614	-8.8963	2362	647
453	+0.5650	-7.9456	-8.3174	+8.8491	-0.7525	-9.9820	-8.1673	-9.0785	2364	
454	+0.5747	-8.0094	-8.3356	+8.8600	-0.7593	-9.9814	-8.8420	-9.1308	2374	
455	+0.5386	-7.7790	-8.3178	+8.8226	-0.7772	-9.9797	+9.1443	-8.9361	2398	659
456	+0.5553	-7.9209	-8.3426	+8.8363	-0.7873	-9.9787	+8.6128	-9.0634	2410	661
457	+0.5503	-7.8981	-8.3493	+8.8305	-0.7985	-9.9775	-8.8445	-9.0451	2423	
458	+0.5647	-8.0025	-8.3711	+8.8446	-0.8055	-9.9768	-8.1271	-9.1347	2431	
459	+0.5436	-7.8534	-8.3506	+8.8238	-0.8057	-9.9767	+9.0406	-9.0063	2432	
460	+0.5730	-8.0565	-8.3860	+8.8538	-0.8105	-9.9762	-8.7774	-9.1788	2440	663
461	+0.5734	-8.0661	-8.3932	+8.8537	-0.8171	-9.9754	-8.7938	-9.1878	2442	664
462	+0.5530	-7.9527	-8.3839	+8.8298	-0.8301	-9.9738	+8.7348	-9.0967	2460	673
463	+0.5741	-8.0913	-8.4137	+8.8527	-0.8362	-9.9730	-8.8169	-9.2116	2467	
464	+0.5734	-8.0902	-8.4154	+8.8515	-0.8388	-9.9727	-8.7896	-9.2113	2469	
465	+0.5733	-8.0945	-8.4198	+8.8509	-0.8431	-9.9721	-8.7853	-9.2157	2472	
466	+0.5355	-7.8450	-8.4009	+8.8108	-0.8617	-9.9694	+9.1976	-9.0036	2486	679
467	+0.5694	-8.1026	-8.4422	+8.8431	-0.8695	-9.9682	-8.5944	-9.2277	2493	680
468	+0.5605	-8.0672	-8.4455	+8.8306	-0.8857	-9.9655	+8.0334	-9.2021	2514	
469	+0.5405	-7.9225	-8.4323	+8.8107	-0.8888	-9.9650	+9.1055	-9.0768	2519	685
470	+0.5280	-7.8134	-8.4350	+8.7995	-0.9005	-9.9628	+9.3054	-8.9767	2537	
471	+0.5749	-8.1724	-8.4835	+8.8456	-0.9026	-9.9625	-8.8407	-9.2893	2540	
472	+0.5648	-8.1196	-8.4756	+8.8324	-0.9071	-9.9616	-8.1335	-9.2488	2549	691
473	+0.5604	-8.0944	-8.4725	+8.8270	-0.9089	-9.9613	+8.0453	-9.2286	2551	692
474	+0.5718	-8.1665	-8.4894	+8.8402	-0.9121	-9.9606	-8.7193	-9.2869	2555	693
475	+0.5424	-7.9731	-8.4633	+8.8074	-0.9176	-9.9595	+9.0641	-9.1252	2558	694
476	+0.5531	-8.0880	-8.5012	+8.8126	-0.9445	-9.9536	+8.7267	-9.2291	2613	
477	+0.5666	-8.1769	-8.5177	+8.8280	-0.9453	-9.9534	-8.3766	-9.3023	2617	707
478	+0.5455	-8.0444	-8.5046	+8.8026	-0.9552	-9.9509	+8.9895	-9.1927	2632	
479	+0.5335	-7.9455	-8.5003	+8.7909	-0.9610	-9.9494	+9.2271	-9.1041	2639	709
480	+0.5613	-8.1793	-8.5406	+8.8156	-0.9733	-9.9461	+9.7993	-9.3098	2657	

No.	Name.	Mag.	Mean Right Ascension 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.
481	3 Cancri	6	h m s 7 52 11.30	+3.449	-0.0109	+0.001	+17 42' 55.4"	- 9.47	-0.444	-0.04
482	ω^2 Cancri	6½	7 52 40.57	+3.638	-0.0146	+0.005	+25 29 49.7	- 9.48	-0.467	-0.01
483	5 Cancri	6	7 52 57.06	+3.430	-0.0107	+0.002	+16 51 52.0	- 9.45	-0.440	+0.04
484	6 Cancri	5	7 54 17.73	+3.702	-0.0162	+0.002	+28 12 36.2	- 9.66	-0.474	-0.07
485	7 Cancri	6½	7 54 58.81	+3.554	-0.0133	-0.002	+22 29 16.7	- 9.61	-0.455	+0.04
486	B.A.C. 2683	6	7 56 4.85	+3.479	-0.0119		+19 15 44.7	- 9.73	-0.444	
487	8 Cancri	6	7 56 42.93	+3.353	-0.0097	+0.001	+13 32 29.2	- 9.83	-0.427	-0.05
488	μ^1 Cancri	6	7 57 24.59	+3.568	-0.0138	+0.001	+23 3 33.8	- 9.84	-0.453	-0.01
489	μ^2 Cancri	5	7 58 55.89	+3.545	-0.0134	+0.005	+22 0 52.1	- 9.97	-0.448	-0.02
490	12 Cancri	6	8 0 19.21	+3.363	-0.0101	+0.002	+14 4 23.9	-10.10	-0.424	-0.05
491	ψ^1 Cancri	6½	8 1 8.68	+3.641	-0.0158	0.000	+26 16 54.0	-10.14	-0.459	-0.03
492	ψ^2 Cancri	4	8 1 24.66	+3.630	-0.0157	-0.002	+25 57 31.1	-10.47	-0.457	-0.34
493	B.A.C. 2731	6½	8 1 26.97	+3.433	-0.0115	0.000	+17 27 9.9	-10.20	-0.432	-0.06
494	ζ^1 Cancri	4½	8 3 36.25	+3.455	-0.0119	+0.009	+18 5 45.0	-10.41	-0.431	-0.11
495	ζ^2 Cancri	7½	8 3 36.59	+3.450	-0.0119	+0.005	+18 5 38.9	-10.63	-0.431	-0.33
496	χ Cancri	6	8 10 56.76	+3.666	-0.0176	+0.005	+27 41 58.3	-11.22	-0.449	-0.37
497	B.A.C. 2788	6½	8 11 35.85	+3.523	-0.0140	+0.017	+21 13 4.8	-10.87	-0.429	+0.02
498	λ Cancri	6	8 11 36.51	+3.582	-0.0158	0.000	+24 29 25.0	-10.93	-0.439	-0.04
499	d^1 Cancri	6	8 14 46.14	+3.450	-0.0130	0.000	+18 48 35.0	-11.13	-0.419	0.00
500	d^2 Cancri	6	8 17 20.16	+3.409	-0.0126	-0.011	+17 32 11.0	-11.45	-0.412	-0.14
501	ρ^2 Cancri	6	8 17 42.52	+3.641	-0.0181	-0.002	+17 25 16.8	-11.35	-0.438	-0.01
502	27 Cancri	6½	8 18 26.00	+3.330	-0.0107	+0.002	+13 8 44.2	-11.51	-0.399	-0.12
503	ν^2 Cancri	6½	8 19 42.74	+3.573	-0.0165	0.000	+24 38 18.1	-11.56	-0.427	-0.08
504	29 Cancri	6	8 20 14.91	+3.360	-0.0114	+0.002	+14 42 12.2	-11.59	-0.401	-0.07
505	ν^3 Cancri	6	8 22 37.93	+3.565	-0.0167	-0.003	+24 34 55.2	-11.79	-0.423	-0.10
506	δ Cancri	6	8 23 2.23	+3.435	-0.0135	-0.001	+18 35 51.2	-11.77	-0.407	-0.05
507	B.A.C. 2854	6½	8 23 4.55	+3.453	-0.0138	-0.002	+19 29 20.8	-11.76	-0.409	-0.04
508	γ Cancri	6	8 24 1.65	+3.486	-0.0147	+0.001	+20 56 48.3	-11.82	-0.411	-0.03
509	B.A.C. 2872	6½	8 25 26.15	+3.329	-0.0113	-0.005	+13 46 1.4	-11.88	-0.392	+0.01
510	35 Cancri	6½	8 26 41.75	+3.463	-0.0145	0.000	+20 6 1.2	-12.05	-0.405	-0.07
511	B.A.C. 2886	7½	8 27 6.92	+3.465	-0.0146	0.001	+20 17 0.5	-12.07	-0.405	-0.06
512	B.A.C. 2899	7	8 29 10.09	+3.445	-0.0144	-0.008	+19 47 7.7	-12.15	-0.401	0.00
513	B.A.C. 2906	7½	8 30 29.27	+3.475	-0.0147	+0.015	+20 11 56.7	-12.32	-0.400	-0.08
514	B.A.C. 2907	8	8 30 32.31	+3.471	-0.0146	+0.013	+20 6 54.5	-12.32	-0.399	-0.07
515	38 Cancri	7	8 31 5.19	+3.461	-0.0148	-0.001	+20 18 8.6	-12.34	-0.399	-0.06
516	B.A.C. 2914	7	8 31 13.89	+3.452	-0.0146	-0.005	+20 4 18.2	-12.09	-0.398	+0.20
517	39 Cancri	6	8 31 28.25	+3.463	-0.0149	-0.003	+20 42 0.0	-12.33	-0.399	-0.02
518	40 Cancri	6	8 31 33.46	+3.464	-0.0149	-0.001	+20 29 49.4	-12.30	-0.399	+0.02
519	B.A.C. 2919	7	8 31 45.37	+3.463	-0.0148	+0.004	+20 11 43.8	-12.40	-0.398	-0.07
520	ϵ Cancri	6½	8 31 50.33	+3.454	-0.0147	-0.002	+20 4 13.5	-12.38	-0.397	-0.04
521	42 Cancri	6½	8 32 6.17	+3.467	-0.0148	+0.008	+20 14 44.5	-12.40	-0.397	-0.05
522	B.A.C. 2925	6½	8 32 19.80	+3.455	-0.0148	-0.001	+20 6 24.9	-12.42	-0.397	-0.05
523	B.A.C. 2927	8	8 32 35.77	+3.479	-0.0152	+0.005	+21 0 23.3	-12.31	-0.399	+0.08
524	B.A.C. 2931	7	8 33 12.71	+3.460	-0.0150	-0.001	+20 24 15.6	-12.51	-0.396	-0.08
525	γ Cancri	4½	8 34 35.89	+3.488	-0.0160	-0.005	+22 0 15.3	-12.50	-0.398	+0.03
526	A ¹ Cancri	6	8 34 56.02	+3.317	-0.0114	+0.001	+13 12 55.9	-12.54	-0.377	+0.01
527	δ Cancri	4	8 36 9.26	+3.425	-0.0142	+0.003	+18 42 7.0	-12.87	-0.388	-0.24
528	b Cancri	6½	8 36 36.30	+3.266	-0.0104	+0.001	+10 37 15.2	-12.69	-0.369	-0.03
529	A ² Cancri	6	8 38 42.42	+3.298	-0.0113	-0.004	+12 30 24.1	-12.86	-0.371	-0.06
530	54 Cancri	6½	8 42 39.91	+3.353	-0.0130	-0.007	+15 54 11.8	-13.00	-0.372	+0.07
531	60 Cancri	6	8 47 43.85	+3.288	-0.0114	+0.002	+12 11 45.0	-13.40	-0.357	0.00
532	o^1 Cancri	6	8 48 52.60	+3.359	-0.0132	+0.006	+15 53 40.5	-13.44	-0.362	+0.04
533	o^2 Cancri	6	8 49 12.19	+3.362	-0.0134	+0.005	+16 9 13.8	-13.44	-0.362	+0.06
534	B.A.C. 3053	6	8 49 36.33	+3.244	-0.0105		+ 9 57 39.1	-13.52	-0.349	
535	α Cancri	4	8 50 16.72	+3.293	-0.0116	+0.005	+12 26 6.2	-13.60	-0.353	-0.03
536	ν Cancri	6	8 53 57.59	+3.525	-0.0189	+0.001	+25 2 17.5	-13.87	-0.373	-0.07
537	κ Cancri	5	8 59 37.15	+3.262	-0.0133	+0.003	+11 16 7.3	-14.13	-0.333	+0.03
538	75 Cancri	6½	8 59 57.13	+3.549	-0.0208	-0.009	+27 14 48.1	-14.57	-0.367	-0.39
539	ξ Cancri	5	9 0 43.63	+3.466	-0.0176	+0.002	+22 38 55.7	-14.21	-0.356	+0.02
540	B.A.C. 3122	6½	9 1 36.87	+3.271	-0.0117	-0.002	+12 10 21.2	-14.41	-0.335	-0.13

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a'</i>	<i>b'</i>	<i>c'</i>	<i>d'</i>		
481	+0.5375	-8.0006	-8.5173	+8.7908	-0.9745	-9.9457	+9.1608	-9.1556	2659	712
482	+0.5602	-8.1764	-8.5424	+8.8137	-0.9762	-9.9453	+8.0864	-9.3080	2663	
483	+0.5350	-7.9806	-8.5180	+8.7880	-0.9772	-9.9450	+9.2033	-9.1376	2664	713
484	+0.5683	-8.2331	-8.5585	+8.8234	-0.9819	-9.9436	+8.5146	-9.3543	2672	716
485	+0.5510	-8.1230	-8.5403	+8.8012	-0.9843	-9.9429	+8.8169	-9.2647	2676	
486	+0.5415	-8.0532	-8.5348	+8.7907	-0.9881	-9.9417	+9.0835	-9.2042	2683	
487	+0.5253	-7.8937	-8.5242	+8.7772	-0.9902	-9.9411	+9.3375	-9.0575	2690	717
488	+0.5523	-8.1434	-8.5505	+8.8004	-0.9926	-9.9403	+8.7627	-9.2833	2700	719
489	+0.5490	-8.1261	-8.5522	+8.7955	-0.9977	-9.9387	+8.8354	-9.2693	2714	
490	+0.5264	-7.9230	-8.5372	+8.7743	-1.0022	-9.9372	+9.3233	-9.0859	2720	722
491	+0.5612	-8.2202	-8.5740	+8.8076	-1.0049	-9.9363	+7.8261	-9.3489	2727	
492	+0.5602	-8.2149	-8.5737	+8.8061	-1.0058	-9.9360	+8.0569	-9.3448	2730	
493	+0.5357	-8.0251	-8.5481	+8.7803	-1.0059	-9.9359	+9.1909	-9.1807	2731	
494	+0.5373	-8.0488	-8.5565	+8.7795	-1.0128	-9.9335	+9.1644	-9.2028	2744	729
495	+0.5372	-8.0486	-8.5565	+8.7794	-1.0128	-9.9335	+9.1647	-9.2027	2745	730
496	+0.5636	-8.2771	-8.6098	+8.8017	-1.0352	-9.9249	+7.8325	-9.4003	2786	
497	+0.5449	-8.1479	-8.5893	+8.7785	-1.0372	-9.9241	+9.0026	-9.2935	2788	
498	+0.5541	-8.2174	-8.5993	+8.7889	-1.0372	-9.9241	+8.6703	-9.3525	2789	745
499	+0.5378	-8.1003	-8.5918	+8.7679	-1.0463	-9.9201	+9.1538	-9.2525	2799	751
500	+0.5340	-8.0749	-8.5959	+8.7614	-1.0535	-9.9169	+9.2175	-9.2303	2816	752
501	+0.5614	-8.2912	-8.6280	+8.7921	-1.0545	-9.9164	+7.7243	-9.4156	2817	756
502	+0.5221	-7.9466	-8.5898	+8.7509	-1.0565	-9.9154	+9.3718	-9.1112	2826	
503	+0.5531	-8.2432	-8.6232	+8.7791	-1.0600	-9.9138	+8.7210	-9.3778	2833	
504	+0.5260	-8.0021	-8.5976	+8.7514	-1.0615	-9.9130	+9.3263	-9.1637	2836	757
505	+0.5524	-8.2499	-8.6308	+8.7750	-1.0679	-9.9098	+8.7528	-9.3847	2850	
506	+0.5360	-8.1176	-8.6139	+8.7565	-1.0689	-9.9093	+9.1833	-9.2704	2853	758
507	+0.5334	-8.1396	-8.6163	+8.7588	-1.0690	-9.9092	+9.1411	-9.2901	2854	
508	+0.5422	-8.1762	-8.6229	+8.7615	-1.0715	-9.9079	+9.0648	-9.3226	2862	762
509	+0.5230	-7.9860	-8.6095	+8.7425	-1.0752	-9.9060	+9.3615	-9.1495	2872	
510	+0.5395	-8.1635	-8.6274	+8.7554	-1.0784	-9.9042	+9.1202	-9.3123	2880	
511	+0.5399	-8.1689	-8.6289	+8.7553	-1.0795	-9.9036	+9.1119	-9.3171	2886	
512	+0.5382	-8.1623	-8.6327	+8.7510	-1.0846	-9.9007	+9.1430	-9.3119	2899	
513	+0.5391	-8.1753	-8.6371	+8.7502	-1.0879	-9.8988	+9.1265	-9.3238	2906	
514	+0.5389	-8.1735	-8.6370	+8.7499	-1.0880	-9.8987	+9.1310	-9.3222	2907	
515	+0.5393	-8.1792	-8.6389	+8.7496	-1.0893	-9.8979	+9.1229	-9.3274	2913	
516	+0.5386	-8.1741	-8.6386	+8.7488	-1.0897	-9.8977	+9.1348	-9.3230	2914	
517	+0.5398	-8.1855	-8.6405	+8.7497	-1.0903	-9.8973	+9.1123	-9.3331	2917	769
518	+0.5397	-8.1848	-8.6406	+8.7495	-1.0905	-9.8972	+9.1146	-9.3325	2918	770
519	+0.5389	-8.1783	-8.6402	+8.7484	-1.0910	-9.8969	+9.1303	-9.3269	2919	
520	+0.5386	-8.1756	-8.6401	+8.7479	-1.0912	-9.8968	+9.1367	-9.3245	2922	
521	+0.5390	-8.1803	-8.6412	+8.7480	-1.0918	-9.8964	+9.1287	-9.3287	2924	
522	+0.5386	-8.1776	-8.6414	+8.7473	-1.0924	-9.8960	+9.1364	-9.3264	2925	
523	+0.5409	-8.1990	-8.6446	+8.7494	-1.0930	-9.8957	+9.0906	-9.3453	2927	
524	+0.5392	-8.1867	-8.6443	+8.7468	-1.0945	-9.8947	+9.1242	-9.3347	2931	
525	+0.5432	-8.2260	-8.6523	+8.7494	-1.0978	-9.8926	+9.0402	-9.3692	2937	775
526	+0.5206	-7.9910	-8.6319	+8.7277	-1.0986	-9.8921	+9.3878	-9.1555	2942	
527	+0.5343	-8.1527	-8.6467	+8.7377	-1.1015	-9.8903	+9.2093	-9.3053	2953	777
528	+0.5139	-7.8973	-8.6317	+8.7210	-1.1025	-9.8896	+9.4527	-9.0658	2958	
529	+0.5187	-7.9804	-8.6397	+8.7209	-1.1074	-9.8863	+9.4062	-9.1458	2970	780
530	+0.5263	-8.0927	-8.6549	+8.7208	-1.1162	-9.8800	+9.3214	-9.2518	2995	
531	+0.5166	-7.9836	-8.6588	+8.7054	-1.1272	-9.8715	+9.4265	-9.1498	3035	787
532	+0.5254	-8.1057	-8.6682	+8.7104	-1.1296	-9.8696	+9.3316	-9.2649	3047	792
533	+0.5260	-8.1139	-8.6694	+8.7104	-1.1303	-9.8690	+9.3243	-9.2724	3052	793
534	+0.5111	-7.8974	-8.6594	+8.6988	-1.1311	-9.8683	+9.4767	-9.0669	3053	
535	+0.5169	-7.9976	-8.6645	+8.7014	-1.1325	-9.8671	+9.4236	-9.1634	3055	794
536	+0.5470	-8.3311	-8.7045	+8.7274	-1.1400	-9.8606	+8.9355	-9.4643	3079	
537	+0.5131	-7.9721	-8.6811	+8.6826	-1.1510	-9.8502	+9.4582	-9.1398	3111	803
538	+0.5512	-8.3851	-8.7244	+8.7246	-1.1516	-9.8496	+8.7924	-9.5101	3113	
539	+0.5396	-8.2952	-8.7096	+8.7069	-1.1531	-9.8481	+9.1109	-9.4364	3117	804
540	+0.5150	-8.0103	-8.6863	+8.6802	-1.1547	-9.8464	+9.4412	-9.1765	3122	

No.	Name.	Mag.	Mean Right Ascension 1850.0.		Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	
			h	m				s	°	'				"
541	79 Cancri	6	9	1	43.40	+3.468	-0.0176	+0.007	+22	36	5.0	-14.30	-0.354	-0.01
542	80 Cancri	6½	9	3	30.90	+3.350	-0.0152	-0.005	+18	39	21.3	-14.40	-0.344	0.00
543	π ¹ Cancri	6½	9	4	4.81	+3.297	-0.0135	-0.033	+15	35	51.5	-14.15	-0.337	+0.28
544	B.A.C. 3138	6	9	5	2.78	+3.447	-0.0172	+0.005	+21	53	56.6	-14.50	-0.347	-0.01
545	π ² Cancri	6	9	6	56.63	+3.325	-0.0136	-0.001	+15	33	39.1	-14.58	-0.332	+0.02
546	83 Cancri	6	9	10	36.13	+3.361	-0.0152	-0.008	+18	20	16.5	-14.98	-0.331	-0.16
547	B.A.C. 3202	6½	9	15	30.59	+3.204	-0.0100	+0.004	+ 8	21	14.6	-15.21	-0.367	-0.10
548	ω Leonis	6	9	20	25.30	+3.223	-0.0107	+0.006	+ 9	42	24.5	-15.43	-0.301	-0.04
549	3 Leonis	6½	9	20	29.73	+3.199	-0.0103	-0.005	+ 8	50	22.4	-15.43	-0.300	-0.04
550	ξ Leonis	6	9	23	51.38	+3.245	-0.0118	-0.004	+11	57	40.7	-15.64	-0.298	-0.06
551	h Leonis	6	9	23	54.87	+3.228	-0.0111	+0.003	+10	22	27.5	-15.63	-0.296	-0.05
552	7 Leonis	6½	9	27	40.68	+3.292	-0.0136	0.000	+15	2	42.9	-15.66	-0.296	-0.07
553	8 Leonis	6½	9	28	45.62	+3.323	-0.0148	0.000	+17	6	33.2	-15.77	-0.297	+0.07
554	10 Leonis	5½	9	29	17.41	+3.176	-0.0096	-0.002	+ 7	30	22.3	-15.85	-0.283	+0.02
555	B.A.C. 3292	6½	9	30	29.37	+3.388	-0.0172	+0.006	+20	58	19.6	-15.92	-0.299	+0.02
556	o Leonis	3½	9	33	8.46	+3.228	-0.0111	+0.008	+10	34	19.3	-16.13	-0.281	-0.05
557	B.A.C. 3336	5½	9	38	15.18	+3.171	-0.0095		+ 7	23	56.1	-16.34	-0.268	
558	18 Leonis	6	9	38	18.22	+3.243	-0.0121	+0.001	+12	29	55.3	-16.27	-0.274	+0.07
559	B.A.C. 3345	6	9	39	29.33	+3.238	-0.0119	+0.002	+12	7	18.8	-16.57	-0.272	-0.17
560	B.A.C. 3350	6	9	45	50.20	+3.157	-0.0091		+ 6	39	45.5	-16.72	-0.254	
561	B.A.C. 3398	6	9	48	28.64	+3.192	-0.0105	-0.002	+ 9	38	26.7	-16.84	-0.253	0.00
562	ν Leonis	5	9	50	8.89	+3.240	-0.0124	+0.002	+13	9	28.9	-16.93	-0.254	-0.01
563	B.A.C. 3407	6	9	50	10.57	+3.187	-0.0102	+0.002	+ 9	1	38.3	-16.99	-0.249	-0.07
564	π Leonis	5	9	52	17.01	+3.182	-0.0100	+0.002	+ 8	45	41.6	-17.05	-0.245	-0.03
565	B.A.C. 3438	6½	9	56	57.29	+3.139	-0.0084		+ 5	43	45.8	-17.23	-0.234	
566	14 Sextantis	6	9	58	56.63	+3.144	-0.0086	-0.002	+ 6	20	26.3	-17.29	-0.231	+0.03
567	η Leonis	3½	9	59	8.85	+3.285	-0.0149	+0.002	+17	29	30.7	-17.32	-0.241	+0.01
568	A Leonis	5	9	59	56.28	+3.194	-0.0109	-0.003	+10	43	50.5	-17.42	-0.233	-0.05
569	α Leonis	1½	10	0	22.74	+3.206	-0.0120	-0.015	+12	41	53.2	-17.39	-0.234	0.00
570	16 Sextantis	6	10	1	23.15	+3.153	-0.0089	+0.002	+ 6	54	18.2	-17.42	-0.227	+0.01
571	34 Leonis	6	10	3	34.04	+3.242	-0.0128	+0.008	+14	5	35.1	-17.63	-0.229	-0.11
572	B.A.C. 3506	6	10	8	5.54	+3.285	-0.0154	+0.005	+18	29	7.1	-17.71	-0.224	0.00
573	37 Leonis	6	10	8	37.37	+3.235	-0.0129	+0.003	+14	28	26.8	-14.77	-0.220	-0.04
574	B.A.C. 3529	6	10	12	41.15	+3.147	-0.0087		+ 7	11	1.1	-17.90	-0.207	
575	23 Sextantis	6	10	13	17.12	+3.106	-0.0066	+0.003	+ 3	2	31.8	-17.91	-0.203	+0.01
576	42 Leonis	6	10	13	45.96	+3.237	-0.0135	-0.002	+15	43	49.7	-17.95	-0.211	-0.01
577	B.A.C. 3538	6½	10	14	19.40	+3.166	-0.0100	-0.007	+ 9	43	3.0	-18.07	-0.206	-0.11
578	43 Leonis	6	10	15	9.43	+3.146	-0.0087	-0.000	+ 7	18	8.7	-18.09	-0.203	-0.10
579	44 Leonis	6	10	17	20.72	+3.161	-0.0099	-0.007	+ 9	32	43.3	-18.20	-0.200	-0.12
580	B.A.C. 3562	6½	10	17	41.33	+3.175	-0.0099	+0.007	+ 9	32	5.0	-18.29	-0.199	-0.20
581	45 Leonis	6	10	19	43.31	+3.179	-0.0104	+0.003	+10	31	29.6	-18.18	-0.196	-0.01
582	B.A.C. 3579	6	10	20	47.25	+3.221	-0.0130	-0.001	+15	6	26.9	-18.25	-0.197	-0.04
583	B.A.C. 3592	6	10	22	0.76	+3.093	-0.0060		+ 2	15	54.4	-18.25	-0.187	
584	i Leonis	6	10	24	11.11	+3.217	-0.0128	+0.002	+14	54	15.6	-18.37	-0.190	-0.04
585	q Leonis	4	10	24	54.58	+3.171	-0.0099	+0.005	+10	4	35.7	-18.39	-0.186	-0.04
586	48 Leonis	6	10	26	58.26	+3.141	-0.0086	-0.001	+ 7	43	27.6	-18.40	-0.181	+0.03
587	49 Leonis	6	10	27	9.97	+3.158	-0.0095	0.000	+ 9	25	23.4	-18.48	-0.182	-0.05
588	50 Leonis	6½	10	30	51.49	+3.230	-0.0138	+0.005	+16	54	27.4	-18.58	-0.178	-0.02
589	33 Sextantis	6	10	33	46.44	+3.057	-0.0039	-0.005	- 0	57	16.5	-18.79	-0.164	-0.14
590	34 Sextantis	6	10	34	52.56	+3.105	-0.0065	-0.003	+ 4	21	54.7	-18.70	-0.165	-0.01
591	35 Sext. pr.	6½	10	35	33.52	+3.119	-0.0071	+0.002	+ 5	31	59.7	-18.77	-0.164	-0.06
592	36 Sextantis	6	10	37	25.57	+3.096	-0.0059	-0.002	+ 3	16	31.4	-18.77	-0.159	0.00
593	37 Sextantis	6	10	38	16.89	+3.132	-0.0079	+0.003	+ 7	9	43.6	-18.84	-0.159	-0.05
594	k Leonis	6	10	38	28.30	+3.188	-0.0123	-0.007	+14	59	5.9	-18.90	-0.162	-0.10
595	l Leonis	5	10	41	22.05	+3.163	-0.0101	+0.002	+11	20	15.3	-18.88	-0.155	+0.01
596	B.A.C. 3726	6	10	44	31.22	+3.084	-0.0049		+ 1	49	19.5	-18.98	-0.145	
597	55 Leonis	6	10	47	59.43	+3.093	-0.0046	+0.011	+ 1	32	10.0	-19.07	-0.139	0.00
598	d Leonis	5	10	52	48.71	+3.104	-0.0058	+0.003	+ 4	25	17.9	-19.25	-0.131	-0.05
599	c Leonis	5	10	52	58.15	+3.119	-0.0071	+0.002	+ 6	54	21.8	-19.24	-0.131	-0.04
600	p ² Leonis	6	10	55	56.03	+3.075	-0.0038	-0.001	+ 0	48	21.5	-19.31	-0.124	-0.03

ZODIACAL STARS.

No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>a'</i>	<i>b'</i>	<i>c'</i>	<i>d'</i>		
541	+0.5392	-8.2961	-8.7114	+8.7048	-1.1550	-9.8462	+9.1169	-9.4374	3123	805
542	+0.5296	-8.2084	-8.7034	+8.6901	-1.1583	-9.8427	+9.2753	-9.3610	3129	
543	+0.5224	-8.1269	-8.6973	+8.6818	-1.1593	-9.8416	+9.3642	-9.2866	3132	
544	+0.5368	-8.2870	-8.7153	+8.6962	-1.1611	-9.8397	+9.1605	-9.4305	3138	
545	+0.5219	-8.1309	-8.7024	+8.6760	-1.1645	-9.8359	+9.3696	-9.2908	3147	
546	+0.5275	-8.2130	-8.7152	+8.6750	-1.1709	-9.8284	+9.3010	-9.3665	3171	815
547	+0.5051	-7.8678	-8.7055	+8.6466	-1.1792	-9.8180	+9.5235	-9.0392	3202	
548	+0.5075	-7.9420	-8.7151	+8.6373	-1.1871	-9.8071	+9.5047	-9.1118	3227	
549	+0.5057	-7.9007	-8.7141	+8.6361	-1.1873	-9.8070	+9.5189	-9.0716	3228	
550	+0.5118	-8.0403	-8.7237	+8.6326	-1.1925	-9.7992	+9.4684	-9.2068	3250	832
551	+0.5085	-7.9769	-8.7214	+8.6301	-1.1926	-9.7991	+9.4962	-9.1458	3251	833
552	+0.5175	-8.1494	-8.7351	+8.6292	-1.1983	-9.7901	+9.4133	-9.3103	3272	
553	+0.5215	-8.2098	-8.7412	+8.6311	-1.1999	-9.7875	+9.3700	-9.3663	3278	
554	+0.5022	-7.8421	-8.7261	+8.6138	-1.2007	-9.7862	+9.5446	-9.0145	3286	
555	+0.5291	-8.3076	-8.7539	+8.6369	-1.2024	-9.7832	+9.2739	-9.4540	3292	
556	+0.5078	-7.9989	-8.7353	+8.6079	-1.2062	-9.7766	+9.5009	-9.1675	3312	841
557	+0.5012	-7.8484	-8.7386	+8.5908	-1.2133	-9.7633	+9.5511	-9.0209	3336	
558	+0.5109	-8.0807	-8.7454	+8.5975	-1.2133	-9.7632	+9.4747	-9.2464	3337	847
559	+0.5100	-8.0686	-8.7464	+8.5937	-1.2149	-9.7600	+9.4822	-9.2349	3345	
560	+0.4993	-7.8123	-8.7478	+8.5692	-1.2231	-9.7424	+9.5646	-8.9855	3380	
561	+0.5043	-7.9782	-8.7543	+8.5648	-1.2264	-9.7347	+9.5275	-9.1481	3398	
562	+0.5103	-8.1189	-8.7617	+8.5652	-1.2284	-9.7298	+9.4777	-9.2835	3406	855
563	+0.5031	-7.9512	-8.7556	+8.5590	-1.2285	-9.7297	+9.5371	-9.1219	3407	
564	+0.5024	-7.9406	-8.7578	+8.5524	-1.2310	-9.7234	+9.5420	-9.1115	3415	857
565	+0.4968	-7.7595	-8.7602	+8.5349	-1.2364	-9.7088	+9.5806	-8.9334	3438	
566	+0.4977	-7.8062	-8.7630	+8.5290	-1.2386	-9.7024	+9.5747	-8.9796	3449	862
567	+0.5162	-8.2590	-8.7811	+8.5462	-1.2388	-9.7017	+9.4193	-9.4146	3453	863
568	+0.5048	-8.0390	-8.7690	+8.5307	-1.2397	-9.6992	+9.5228	-9.2075	3457	864
569	+0.5080	-8.1147	-8.7726	+8.5324	-1.2402	-9.6977	+9.4967	-9.2800	3459	866
570	+0.4984	-7.8461	-8.7661	+8.5215	-1.2413	-9.6944	+9.5697	-9.0190	3463	
571	+0.5097	-8.1650	-8.7785	+8.5242	-1.2436	-9.6871	+9.4806	-9.3279	3475	
572	+0.5159	-8.2941	-8.7930	+8.5182	-1.2483	-9.6713	+9.4198	-9.4472	3506	
573	+0.5094	-8.1823	-8.7845	+8.5073	-1.2488	-9.6694	+9.4822	-9.3444	3510	
574	+0.4979	-7.8750	-8.7779	+8.4818	-1.2528	-9.6545	+9.5731	-9.0476	3529	
575	+0.4917	-7.5005	-8.7756	+8.4767	-1.2533	-9.6522	+9.6124	-8.6760	3532	
576	+0.5104	-8.2252	-8.7921	+8.4909	-1.2538	-9.6504	+9.4720	-9.3847	3534	
577	+0.5014	-8.0096	-8.7823	+8.4785	-1.2543	-9.6483	+9.5473	-9.1795	3538	
578	+0.4978	-7.8845	-8.7803	+8.4726	-1.2551	-9.6451	+9.5732	-9.0571	3544	881
579	+0.5008	-8.0044	-8.7849	+8.4666	-1.2571	-9.6366	+9.5517	-9.1745	3561	885
580	+0.5007	-8.0043	-8.7852	+8.4652	-1.2574	-9.6352	+9.5521	-9.1744	3562	
581	+0.5019	-8.0500	-8.7883	+8.4583	-1.2593	-9.6271	+9.5432	-9.2187	3575	890
582	+0.5081	-8.2132	-8.7972	+8.4619	-1.2602	-9.6227	+9.4909	-9.3740	3579	
583	+0.4903	-7.3801	-8.7833	+8.4419	-1.2613	-9.6177	+9.6203	-8.5559	3592	
584	+0.5072	-8.2099	-8.7997	+8.4473	-1.2631	-9.6085	+9.4983	-9.3712	3606	
585	+0.5006	-8.0351	-8.7922	+8.4361	-1.2637	-9.6054	+9.5524	-9.2044	3609	896
586	+0.4972	-7.9195	-8.7911	+8.4243	-1.2654	-9.5964	+9.5762	-9.0916	3621	899
587	+0.4994	-8.0073	-8.7932	+8.4254	-1.2656	-9.5956	+9.5606	-9.1775	3622	
588	+0.5085	-8.2730	-8.8004	+8.4220	-1.2685	-9.5789	+9.4842	-9.4299	3643	
589	+0.4861	+7.0142	-8.7925	+8.3891	-1.2707	-9.5652	+9.6435	+8.1902	3663	
590	+0.4924	-7.6759	-8.7945	+8.3850	-1.2716	-9.5598	+9.6076	-8.8508	3667	908
591	+0.4938	-7.7800	-8.7958	+8.3824	-1.2721	-9.5565	+9.5990	-8.9540	3672	
592	+0.4910	-7.5528	-8.7958	+8.3718	-1.2734	-9.5472	+9.6161	-8.7282	3684	911
593	+0.4954	-7.8949	-8.7991	+8.3702	-1.2740	-9.5429	+9.5878	-9.0676	3690	912
594	+0.5045	-8.2234	-8.8109	+8.3809	-1.2741	-9.5419	+9.5173	-9.3845	3693	914
595	+0.4998	-8.1000	-8.8064	+8.3593	-1.2761	-9.5269	+9.5556	-9.2675	3708	916
596	+0.4892	-7.3026	-8.8001	+8.3339	-1.2782	-9.5098	+9.6268	-8.4784	3726	
597	+0.4888	-7.2305	-8.8023	+8.3141	-1.2804	-9.4900	+9.6289	-8.4065	3749	
598	+0.4914	-7.6933	-8.8063	+8.2861	-1.2833	-9.4609	+9.6132	-8.8681	3768	925
599	+0.4938	-7.8883	-8.8082	+8.2869	-1.2834	-9.4599	+9.5978	-9.0612	3769	926
600	+0.4880	-6.9550	-8.8068	+8.2647	-1.2850	-9.4408	+9.6335	-8.1311	3782	

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s				°	'	"			
601	χ Leonis	5	10	57	16.61	+3.103	-0.0077	-0.019	+ 8	8	44.1	-19.39	-0.123	-0.08
602	p^3 Leonis	6	10	59	15.07	+3.063	-0.0047	-0.025	+ 2	46	8.0	-19.45	-0.118	-0.10
603	p^4 Leonis	7	11	1	34.29	+3.072	-0.0029	+0.004	- 0	31	19.3	-19.46	-0.113	-0.05
604	p^5 Leonis	5	11	6	5.02	+3.086	-0.0033	+0.011	+ 0	44	45.6	-19.55	-0.105	-0.05
605	B.A.C. 3836	6	11	6	11.04	+3.087	-0.0045		+ 3	4	10.6	-19.51	-0.105	
606	B.A.C. 3837	6½	11	6	14.05	+3.127	-0.0076	+0.008	+ 8	52	51.1	-19.63	-0.106	-0.12
607	n Leonis	6	11	8	0.85	+3.149	-0.0105	+0.003	+14	7	27.5	-19.58	-0.103	-0.04
608	B.A.C. 3845	6	11	8	7.46	+3.145	-0.0102	+0.001	+13	39	56.8	-19.54	-0.103	0.00
609	φ Leonis	4½	11	9	2.12	+3.053	-0.0014	-0.003	- 2	49	57.4	-19.61	-0.098	-0.05
610	75 Leonis	6	11	9	34.37	+3.093	-0.0042	+0.008	+ 2	50	4.7	-19.75	-0.098	-0.18
611	76 Leonis	6	11	11	13.27	+3.087	-0.0040	+0.004	+ 2	28	20.5	-19.67	-0.095	-0.07
612	σ Leonis	4	11	13	23.98	+3.099	-0.0062	-0.004	+ 6	51	1.8	-19.66	-0.091	-0.02
613	ι Leonis	4	11	16	5.83	+3.137	-0.0085	+0.015	+11	21	18.5	-19.75	-0.087	-0.06
614	79 Leonis	6	11	16	20.42	+3.085	-0.0035	+0.004	+ 2	13	49.1	-19.72	-0.085	-0.03
615	B.A.C. 3882	6½	11	17	12.04	+3.126	-0.0090	+0.001	+12	15	16.8	-19.74	-0.085	-0.03
616	τ Leonis	5	11	20	13.31	+3.091	-0.0041	+0.005	+ 3	40	54.1	-19.78	-0.078	-0.03
617	e Leonis	5	11	22	39.02	+3.066	-0.0010	-0.004	- 2	10	36.2	-19.84	-0.073	-0.05
618	89 Leonis	6	11	26	41.34	+3.076	-0.0039	-0.008	+ 3	53	34.5	-19.97	-0.065	-0.13
619	ν Leonis	4½	11	29	16.06	+3.074	-0.0017	+0.003	+ 0	0	13.3	-19.87	-0.060	+0.01
620	ω Virginis	6½	11	30	43.38	+3.098	-0.0064	0.000	+ 8	57	50.1	-19.94	-0.058	-0.05
621	B.A.C. 3975	6½	11	36	15.47	+3.059	+0.0016	+0.003	- 5	50	38.6	-20.10	-0.046	-0.15
622	ξ Virginis	5	11	37	33.03	+3.097	-0.0061	+0.005	+ 9	5	29.9	-20.00	-0.044	-0.04
623	ν Virginis	4½	11	38	8.96	+3.093	-0.0052	+0.006	+ 7	22	10.7	-20.16	-0.043	-0.20
624	A ¹ Virginis	5½	11	40	12.71	+3.092	-0.0059	+0.003	+ 9	4	42.4	-20.00	-0.039	-0.02
625	B.A.C. 3996	6	11	41	25.51	+3.082	-0.0043		+ 6	1	38.9	-19.99	-0.036	
626	β Virginis	3½	11	42	52.90	+3.128	-0.0024	+0.053	+ 2	36	44.9	-20.28	-0.034	-0.28
627	B.A.C. 4006	6	11	43	22.37	+3.074	+0.0014	+0.011	- 4	29	59.0	-20.10	-0.032	-0.10
628	A ² Virginis	6	11	47	21.26	+3.081	-0.0056	-0.002	+ 9	16	39.1	-20.05	-0.025	-0.02
629	B.A.C. 4043	6½	11	51	22.83	+3.055	-0.0012	-0.017	+ 1	21	54.8	-19.98	-0.017	+0.06
630	b Virginis	6	11	52	15.91	+3.078	-0.0027	+0.004	+ 4	29	26.2	-20.08	-0.015	-0.06
631	π Virginis	4½	11	53	11.16	+3.079	-0.0013	+0.003	+ 7	27	2.3	-20.10	-0.013	-0.05
632	10 Virginis	6	12	2	0.11	+3.074	-0.0013	+0.004	+ 2	44	24.5	-20.28	+0.004	-0.23
633	11 Virginis	6	12	2	24.72	+3.061	-0.0034	-0.008	+ 6	38	30.7	-20.03	+0.005	+0.02
634	B.A.C. 4104	6½	12	3	59.78	+3.064	-0.0024	-0.005	+ 4	53	24.2	-20.19	+0.008	-0.14
635	13 Virginis	6	12	10	58.96	+3.075	+0.0006	+0.004	+ 0	2	48.8	-20.09	+0.022	-0.06
636	η Virginis	3½	12	12	13.90	+3.067	+0.0006	-0.003	+ 0	10	1.4	-20.07	+0.024	-0.04
637	c Virginis	5	12	12	43.99	+3.049	-0.0015	-0.016	+ 4	8	53.5	-20.09	+0.025	-0.07
638	17 Virginis	6	12	14	54.43	+3.051	-0.0023	-0.010	+ 6	8	25.7	-20.08	+0.029	-0.07
639	B.A.C. 4200	6½	12	20	9.71	+3.062	+0.0031	-0.016	+ 3	47	2.9	-20.01	+0.039	-0.03
640	B.A.C. 4225	6½	12	23	55.93	+3.069	+0.0036	-0.012	- 4	13	27.2	-19.93	+0.047	+0.02
641	q Virginis	6	12	26	2.47	+3.091	+0.0060	-0.003	- 8	37	26.3	-19.90	+0.051	+0.03
642	f Virginis	6	12	29	4.06	+3.085	+0.0042	0.000	- 5	0	20.0	-19.98	+0.057	-0.09
643	B.A.C. 4255	6½	12	31	0.73	+3.078	-0.0035	-0.004	+ 3	32	48.8	-19.83	+0.061	+0.04
644	χ Virginis	5	12	31	30.74	+3.094	+0.0055	0.000	- 7	10	7.4	-19.91	+0.062	-0.04
645	B.A.C. 4259	6	12	31	38.53	+3.103	+0.0056	+0.009	- 7	12	20.2	-20.01	+0.062	-0.15
646	γ Virginis	2½	12	34	3.70	+3.040	+0.0022	-0.033	- 0	37	33.8	-19.85	+0.066	-0.02
647	28 Virginis	6	12	34	12.59	+3.099	+0.0054	+0.005	- 6	40	25.7	-19.85	+0.067	-0.02
648	B.A.C. 4277	6	12	35	55.41	+3.073	+0.0024		+ 0	44	54.8	-19.81	+0.070	
649	B.A.C. 4294	6½	12	39	48.38	+3.088	+0.0050	-0.005	- 5	28	47.9	-19.75	+0.078	0.00
650	B.A.C. 4312	6½	12	43	34.81	+3.106	+0.0075	-0.007	- 9	31	15.4	-19.76	+0.086	-0.07
651	37 Virginis	6	12	43	58.92	+3.055	+0.0004	+0.002	+ 3	52	24.6	-19.67	+0.085	+0.02
652	38 Virginis	6	12	45	30.51	+3.072	+0.0039	-0.011	- 2	44	12.8	-19.69	+0.089	-0.03
653	ψ Virginis	5	12	46	33.41	+3.116	+0.0071	+0.004	- 8	43	23.4	-19.66	+0.092	-0.02
654	k Virginis	6	12	51	56.16	+3.088	+0.0044	+0.002	- 3	0	1.9	-19.51	+0.101	+0.03
655	46 Virginis	6½	12	52	52.75	+3.085	+0.0042	+0.001	- 2	33	35.6	-19.45	+0.103	+0.07
656	48 Virginis	6	12	56	10.83	+3.085	+0.0046	-0.002	- 2	51	15.3	-19.48	+0.109	-0.02
657	B.A.C. 4382	6½	12	58	32.49	+3.156	+0.0109	0.000	-14	6	41.9	-19.40	+0.116	0.00
658	g Virginis	6	13	0	2.60	+3.137	+0.0086	+0.006	- 9	56	13.7	-19.40	+0.118	-0.03
659	B.A.C. 4394	5½	13	0	43.47	+3.121	+0.0076		- 8	10	48.4	-19.36	+0.119	
660	50 Virginis	6	13	1	54.61	+3.135	+0.0083	+0.004	- 9	31	41.2	-19.38	+0.122	-0.05

ZODIACAL STARS.

No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
601	+0.4945	-7.9632	-8.8118	+8.2601	-1.2858	-9.4318	+9.5925	-9.1349	3788	934
602	+0.4896	-7.4930	-8.8090	+8.2427	-1.2868	-9.4183	+9.6241	-8.6685	3798	936
603	+0.4868	+6.7692	-8.8097	+8.2257	-1.2880	-9.4017	+9.6397	+7.9452	3816	
604	+0.4878	-6.9258	-8.8118	+8.1914	-1.2901	-9.3674	+9.6344	-8.1019	3832	938
605	+0.4896	-7.5412	-8.8125	+8.1913	-1.2901	-9.3667	+9.6241	-8.7167	3836	
606	+0.4941	-8.0057	-8.8171	+8.1955	-1.2902	-9.3663	+9.5943	-9.1765	3837	940
607	+0.4978	-8.2134	-8.8260	+8.1892	-1.2910	-9.3520	+9.5634	-9.3762	3843	941
608	+0.4974	-8.1986	-8.8252	+8.1875	-1.2910	-9.3511	+9.5667	-9.3622	3845	
609	+0.4852	+7.5075	-8.8136	+8.1679	-1.2914	-9.3435	+9.6477	+8.6830	3848	942
610	+0.4893	-7.5081	-8.8138	+8.1634	-1.2916	-9.3390	+9.6259	-8.6836	3850	943
611	+0.4889	-7.4493	-8.8144	+8.1491	-1.2923	-9.3248	+9.6279	-8.6250	3857	
612	+0.4918	-7.8946	-8.8180	+8.1322	-1.2932	-9.3052	+9.6094	-9.0676	3862	948
613	+0.4944	-8.1187	-8.8245	+8.1121	-1.2942	-9.2796	+9.5888	-9.2562	3877	949
614	+0.4886	-7.4065	-8.8163	+8.1015	-1.2943	-9.2772	+9.6296	-8.5823	3879	950
615	+0.4948	-8.1532	-8.8263	+8.1026	-1.2946	-9.2687	+9.5851	-9.3192	3882	
616	+0.4893	-7.6259	-8.8182	+8.0621	-1.2957	-9.2372	+9.6253	-8.8011	3900	955
617	+0.4861	+7.3979	-8.8184	+8.0344	-1.2964	-9.2102	+9.6434	+8.5737	3916	959
618	+0.4891	-7.6521	-8.8203	+7.9858	-1.2976	-9.1609	+9.6266	-8.8272	3930	
619	+0.4872	-4.6517	-8.8200	+7.9500	-1.2983	-9.1261	+9.6375	-5.8278	3946	964
620	+0.4910	-8.0183	-8.8257	+7.9344	-1.2987	-9.1052	+9.6115	-9.1891	3954	
621	+0.4852	+7.8317	-8.8238	+7.8407	-1.2999	-9.0146	+9.6456	+9.0055	3975	
622	+0.4902	-8.0260	-8.8273	+7.8197	-1.3001	-8.9903	+9.6160	-9.1966	3979	
623	+0.4896	-7.9337	-8.8255	+7.8061	-1.3002	-8.9786	+9.6214	-9.1062	3982	970
624	+0.4898	-8.0258	-8.8278	+7.7651	-1.3006	-8.9357	+9.6179	-9.1964	3989	
625	+0.4888	-7.8461	-8.8249	+7.7346	-1.3008	-8.9083	+9.6264	-9.0198	3996	
626	+0.4879	-7.4816	-8.8232	+7.6972	-1.3010	-8.8728	+9.6336	-8.6572	4002	975
627	+0.4862	+7.7187	-8.8241	+7.6855	-1.3011	-8.8603	+9.6418	+8.8935	4006	
628	+0.4889	-8.0364	-8.8290	+7.5712	-1.3016	-8.7415	+9.6226	-9.2068	4027	
629	+0.4874	-7.2008	-8.8237	+7.3993	-1.3019	-8.5752	+9.6364	-8.3768	4043	
630	+0.4877	-7.7187	-8.8250	+7.3533	-1.3020	-8.5280	+9.6335	-8.8935	4049	983
631	+0.4880	-7.9403	-8.8274	+7.3006	-1.3020	-8.4730	+9.6298	-9.1127	4052	984
632	+0.4871	-7.5039	-8.8244	-6.7657	-1.3022	+7.9413	+9.6374	-8.6795	4094	
633	+0.4870	-7.8900	-8.8268	-6.8491	-1.3022	+8.0222	+9.6358	-9.0632	4096	
634	+0.4869	-7.7560	-8.8254	-7.0666	-1.3022	+8.2411	+9.6374	-8.9305	4104	996
635	+0.4872	-5.7369	-8.8234	-7.5043	-1.3017	+8.6804	+9.6375	-6.9130	4137	1000
636	+0.4872	-6.2885	-8.8233	-7.5510	-1.3016	+8.7271	+9.6377	-7.4646	4145	1002
637	+0.4865	-7.6838	-8.8244	-7.5696	-1.3016	+8.7445	+9.6403	-8.8587	4151	1005
638	+0.4859	-7.8547	-8.8255	-7.6393	-1.3013	+8.8129	+9.6420	-9.0283	4168	
639	+0.4883	+7.6427	-8.8232	-7.7687	-1.3005	+8.9438	+9.6366	+8.8179	4200	
640	+0.4887	+7.6899	-8.8227	-7.8431	-1.2999	+9.0180	+9.6285	+8.8649	4225	
641	+0.4905	+8.0019	-8.8260	-7.8834	-1.2994	+9.0546	+9.6150	+9.1731	4230	1013
642	+0.4893	+7.7629	-8.8221	-7.9276	-1.2987	+9.1621	+9.6246	+8.9373	4247	
643	+0.4888	+7.6122	-8.8208	-7.9548	-1.2982	+9.1300	+9.6282	+8.7875	4255	
644	+0.4905	+7.9194	-8.8232	-7.9643	-1.2981	+9.1369	+9.6165	+9.0921	4257	
645	+0.4905	+7.9216	-8.8232	-7.9661	-1.2981	+9.1387	+9.6162	+9.0943	4259	
646	+0.4875	+6.8577	-8.8191	-7.9944	-1.2974	+9.1705	+9.6358	+8.0337	4268	1020
647	+0.4905	+7.8873	-8.8220	-7.9992	-1.2974	+9.1724	+9.6167	+9.0604	4269	
648	+0.4876	+6.9347	-8.8186	-8.0174	-1.2969	+9.1934	+9.6354	+8.1108	4277	
649	+0.4904	+7.7993	-8.8193	-8.0635	-1.2956	+9.2376	+9.6186	+8.9734	4294	
650	+0.4932	+8.0406	-8.8220	-8.1064	-1.2943	+9.2765	+9.5985	+9.2107	4312	
651	+0.4848	-7.6465	-8.8169	-8.1053	-1.2942	+9.2804	+9.6492	-8.8216	4314	
652	+0.4890	+7.4947	-8.8158	-8.1195	-1.2936	+9.2951	+9.6275	+8.6703	4323	1029
653	+0.4930	+8.0008	-8.8199	-8.1338	-1.2932	+9.3048	+9.6002	+9.1718	4330	1031
654	+0.4895	+7.5321	-8.8133	-8.1761	-1.2910	+9.3516	+9.6249	+8.7076	4352	
655	+0.4892	+7.4627	-8.8127	-8.1836	-1.2906	+9.3592	+9.6267	+8.6383	4358	
656	+0.4895	+7.5085	-8.8113	-8.2095	-1.2890	+9.3850	+9.6246	+8.6840	4373	
657	+0.4991	+8.2100	-8.2229	-8.2398	-1.2879	+9.4026	+9.5555	+9.3727	4382	
658	+0.4957	+8.0524	-8.8154	-8.2438	-1.2871	+9.4133	+9.5830	+9.2219	4391	1047
659	+0.4943	+7.9661	-8.8129	-8.2464	-1.2868	+9.4181	+9.5936	+9.1377	4394	
660	+0.4956	+8.0328	-8.8139	-8.2562	-1.2862	+9.4263	+9.5841	+9.2028	4397	

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s				°	'	"			
661	δ Virginis tr.	4 $\frac{1}{2}$	13	2	11.25	+3.101	+0.0058	+0.001	-4	44	12.9	-19.37	+0.121	-0.05
662	53 Virginis	5	13	4	4.86	+3.181	+0.0119	+0.009	-15	23	17.1	-19.57	+0.128	-0.29
663	B.A.C. 4441	6	13	9	34.33	+3.176	+0.0118		-14	45	11.1	-19.14	+0.138	
664	58 Virginis	6	13	9	35.99	+3.136	+0.0088	-0.003	-9	45	19.2	-19.18	+0.137	-0.04
665	65 Virginis	6	13	15	32.72	+3.102	+0.0061	0.000	-4	8	14.9	-19.00	+0.146	-0.02
666	66 Virginis	6	13	16	44.98	+3.116	+0.0063	+0.012	-4	22	40.1	-18.56	+0.149	-0.02
667	α Virginis	1	13	17	17.78	+3.152	+0.0095	0.000	-10	22	36.6	-18.98	+0.152	-0.05
668	B.A.C. 4488	6 $\frac{1}{2}$	13	18	4.27	+3.201	+0.0129	+0.002	-16	4	39.9	-18.83	+0.156	+0.07
669	i Virginis	5	13	18	48.23	+3.161	+0.0104	-0.005	-11	55	30.5	-18.92	+0.156	-0.04
670	69 Virginis	5 $\frac{1}{2}$	13	19	27.43	+3.190	+0.0124	-0.004	-15	11	39.6	-18.91	+0.158	-0.05
671	l^2 Virginis	5	13	24	10.30	+3.116	+0.0071	-0.001	-5	28	46.7	-18.77	+0.163	-0.05
672	75 Virginis	6	13	24	51.19	+3.196	+0.0122	-0.001	-14	35	24.5	-18.80	+0.169	-0.10
673	h Virginis	5	13	25	4.38	+3.151	+0.0092	0.000	-9	23	25.4	-18.73	+0.167	-0.04
674	B.A.C. 4531	6	13	26	42.84	+3.182	+0.0110	+0.002	-12	26	36.1	-18.70	+0.171	-0.06
675	80 Virginis	6	13	27	43.33	+3.114	+0.0068	+0.003	-4	37	50.1	-18.55	+0.170	+0.05
676	80 Virginis	6	13	33	44.63	+3.141	+0.0087	-0.004	-7	56	39.8	-18.39	+0.182	+0.01
677	83 Virginis	6	13	36	24.75	+3.225	+0.0131	+0.004	-15	25	24.3	-18.37	+0.192	-0.06
678	85 Virginis	6	13	37	30.95	+3.219	+0.0128	0.000	-15	0	48.1	-18.38	+0.194	-0.11
679	86 Virginis	6	13	37	57.13	+3.186	+0.0109	+0.001	-11	40	22.3	-18.25	+0.193	0.00
680	87 Virginis	6	13	39	16.36	+3.248	+0.0142	+0.005	-17	6	25.7	-18.27	+0.199	-0.07
681	B.A.C. 4591	6	13	39	17.94	+3.159	+0.0095		-8	57	20.8	-18.20	+0.193	
682	B.A.C. 4604	6 $\frac{1}{2}$	13	40	54.54	+3.102	+0.0060	+0.011	-2	5	26.8	-18.18	+0.192	-0.04
683	89 Virginis	5 $\frac{1}{2}$	13	41	43.75	+3.246	+0.0144	-0.004	-17	23	5.7	-18.16	+0.204	-0.05
684	B.A.C. 4679	6 $\frac{1}{2}$	13	56	20.29	+3.239	+0.0129	+0.003	-14	14	51.4	-17.56	+0.229	-0.03
685	94 Virginis	6	13	58	21.57	+3.167	+0.0095	+0.002	-8	10	24.3	-17.42	+0.228	+0.02
686	95 Virginis	6	13	58	47.21	+3.164	+0.0097	-0.007	-8	35	41.6	-17.40	+0.229	+0.02
687	96 Virginis	6 $\frac{1}{2}$	14	1	1.51	+3.188	+0.0103	+0.003	-9	37	17.3	-17.32	+0.234	0.00
688	B.A.C. 4700	5 $\frac{1}{2}$	14	2	39.31	+3.256	+0.0137	-0.005	-15	35	28.6	-17.31	+0.243	-0.06
689	α Virginis	4 $\frac{1}{2}$	14	4	54.01	+3.195	+0.0104	+0.007	-9	34	24.1	-17.14	+0.241	+0.01
690	B.A.C. 4720	6 $\frac{1}{2}$	14	6	32.03	+3.120	+0.0083	-0.015	-5	14	54.2	-17.06	+0.240	+0.02
691	B.A.C. 4722	6	14	7	8.80	+3.301	+0.0159	+0.008	-17	29	52.2	-17.06	+0.253	-0.01
692	i Virginis	4	14	8	9.33	+3.142	+0.0083	+0.006	-5	16	55.1	-17.41	+0.243	-0.41
693	B.A.C. 4739	6	14	10	20.41	+3.305	+0.0153		-18	1	5.4	-16.90	+0.260	
694	λ Virginis	4 $\frac{1}{2}$	14	11	0.01	+3.237	+0.0121	+0.004	-12	40	41.0	-16.84	+0.255	+0.03
695	2 Libræ	6	14	15	21.65	+3.217	+0.0113	+0.001	-11	1	34.9	-16.75	+0.261	-0.09
696	106 Virginis	6	14	20	47.33	+3.156	+0.0089	+0.001	-6	13	25.3	-16.44	+0.265	-0.05
697	5 Libræ	6	14	37	41.91	+3.237	+0.0134	+0.002	-14	49	27.9	-15.52	+0.305	-0.03
698	B.A.C. 4888	6 $\frac{1}{2}$	14	40	39.54	+3.448	+0.0188		-23	37	23.6	-15.33	+0.324	
699	α^1 Libræ	6	14	42	23.90	+3.307	+0.0136	-0.003	-15	22	12.9	-15.30	+0.314	-0.07
700	α^2 Libræ	2 $\frac{1}{2}$	14	42	35.30	+3.309	+0.0136	-0.002	-15	24	54.8	-15.29	+0.315	-0.07
701	B.A.C. 4896	6	14	43	11.93	+3.335	+0.0146	-0.005	-17	9	46.2	-15.35	+0.318	-0.17
702	12 Libræ	6	14	45	38.02	+3.467	+0.0190	+0.002	-24	1	27.8	-15.07	+0.334	-0.03
703	ξ^1 Libræ	6	14	46	14.60	+3.245	+0.0114	-0.003	-11	17	0.5	-15.06	+0.314	-0.05
704	ξ^2 Libræ	6	14	48	38.12	+3.245	+0.0112	+0.003	-10	48	4.4	-14.90	+0.317	-0.03
705	B.A.C. 4923	6	14	48	42.76	+3.478	+0.0167	+0.008	-20	44	3.1	-16.54	+0.334	-1.68
706	18 Libræ	6 $\frac{1}{2}$	14	50	47.37	+3.239	+0.0110	0.000	-10	32	15.1	-14.86	+0.320	-0.12
707	20 Libræ	3 $\frac{1}{2}$	14	55	18.10	+3.496	+0.0192	0.000	-24	41	19.5	-14.50	+0.353	-0.03
708	ν^1 Libræ	5	14	58	16.19	+3.335	+0.0135	+0.001	-15	40	16.8	-14.32	+0.341	-0.03
709	ν^2 Libræ	6 $\frac{1}{2}$	14	58	27.15	+3.335	+0.0136	-0.003	-15	53	59.0	-14.29	+0.342	-0.01
710	B.A.C. 4984	6	15	1	7.21	+3.488	+0.0180	+0.006	-23	24	27.5	-14.15	+0.361	-0.04
711	ν^1 Libræ	4 $\frac{1}{2}$	15	3	40.81	+3.407	+0.0153	+0.002	-19	13	13.0	-13.97	+0.357	-0.02
712	ν^2 Libræ	6 $\frac{1}{2}$	15	4	47.11	+3.404	+0.0152	0.000	-19	4	30.2	-13.78	+0.358	+0.10
713	B.A.C. 5006	6	15	5	0.92	+3.524	+0.0194	-0.010	-25	37	36.0	-13.71	+0.372	+0.16
714	B.A.C. 5008	6 $\frac{1}{2}$	15	5	6.45	+3.257	+0.0167	+0.003	-10	26	22.0	-13.96	+0.342	-0.10
715	B.A.C. 5023	6	15	7	41.81	+3.453	+0.0167	-0.009	-21	50	26.0	-13.79	+0.369	-0.09
716	28 Libræ	6	15	12	23.32	+3.390	+0.0141	+0.003	-17	36	36.2	-13.46	+0.368	-0.07
717	α^1 Libræ	6	15	12	38.61	+3.343	+0.0127	+0.005	-15	0	12.9	-13.31	+0.363	+0.07
718	α^2 Libræ	6	15	14	40.25	+3.333	+0.0125	+0.001	-14	35	41.6	-13.24	+0.365	+0.01
719	B.A.C. 5070	6	15	15	38.78	+3.279	+0.0111	-0.003	-11	49	49.5	-13.27	+0.361	-0.09
720	ζ^1 Libræ	4	15	19	48.27	+3.374	+0.0130	+0.006	-16	11	22.9	-12.94	+0.376	-0.04

ZODIACAL STARS.

No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
661	+0.4914	+7.7261	-8.8092	-8.2536	-1.2860	+9.4282	+9.6132	+8.9007	4401	1049
662	+0.5014	+8.2464	-8.8226	-8.2807	-1.2850	+9.4409	+9.5381	+9.4066	4418	1052
663	+0.5019	+8.2241	-8.8181	-8.3140	-1.2819	+9.4756	+9.5361	+9.3856	4441	
664	+0.4968	+8.0389	-8.8099	-8.3060	-1.2819	+9.4757	+9.5763	+9.2087	4442	
665	+0.4916	+7.6593	-8.8010	-8.3352	-1.2782	+9.5101	+9.6122	+8.8342	4477	
666	+0.4920	+7.6831	-8.8004	-8.3419	-1.2774	+9.5168	+9.6102	+8.8579	4478	
667	+0.4985	+8.0615	-8.8059	-8.3508	-1.2770	+9.5197	+9.5650	+9.2304	4480	1061
668	+0.5051	+8.2579	-8.8155	-8.3651	-1.2765	+9.5239	+9.5112	+9.4167	4488	
669	+0.5005	+8.1224	-8.8072	-8.3612	-1.2760	+9.5278	+9.5501	+9.2890	4492	
670	+0.5043	+8.2312	-8.8127	-8.3706	-1.2756	+9.5312	+9.5181	+9.3918	4494	1065
671	+0.4937	+7.7759	-8.7959	-8.3811	-1.2723	+9.5552	+9.5996	+8.9500	4516	1070
672	+0.5047	+8.2089	-8.8077	-8.3967	-1.2718	+9.5585	+9.5169	+9.3708	4520	
673	+0.4984	+8.0118	-8.7991	-8.3894	-1.2716	+9.5596	+9.5669	+9.1820	4521	1072
674	+0.5024	+8.1358	-8.8024	-8.4017	-1.2704	+9.5675	+9.5368	+9.3015	4531	
675	+0.4929	+7.6998	-8.7927	-8.3976	-1.2696	+9.5723	+9.6046	+8.8744	4535	
676	+0.4976	+7.9312	-8.7907	-8.4277	-1.2648	+9.5996	+9.5738	+9.1031	4565	1082
677	+0.5080	+8.2250	-8.8002	-8.4509	-1.2626	+9.6111	+9.4909	+9.3852	4574	
678	+0.5077	+8.2118	-8.7984	-8.4547	-1.2617	+9.6157	+9.4946	+9.3728	4582	
679	+0.5031	+8.0981	-8.7921	-8.4505	-1.2613	+9.6175	+9.5329	+9.2651	4585	1091
680	+0.5110	+8.2701	-8.8015	-8.4665	-1.2601	+9.6230	+9.4643	+9.4265	4590	
681	+0.4996	+7.9793	-8.7871	-8.4523	-1.2601	+9.6231	+9.5604	+9.1500	4591	1093
682	+0.4902	+7.3428	-8.7807	-8.4538	-1.2587	+9.6296	+9.6213	+8.5186	4604	
683	+0.5119	+8.2753	-8.8000	-8.4771	-1.2580	+9.6329	+9.4561	+9.4311	4608	1102
684	+0.5100	+8.1701	-8.7789	-8.5242	-1.2437	+9.6867	+9.4786	+9.3326	4679	
685	+0.5004	+7.9204	-8.7677	-8.5219	-1.2415	+9.6935	+9.5556	+9.0921	4688	1122
686	+0.5012	+7.9422	-8.7677	-8.5238	-1.2411	+9.6950	+9.5504	+9.1133	4690	
687	+0.5031	+7.9895	-8.7665	-8.5324	-1.2386	+9.7023	+9.5362	+9.1595	4698	
688	+0.5133	+8.2042	-8.7748	-8.5478	-1.2368	+9.7076	+9.4486	+9.3640	4700	
689	+0.5035	+7.9830	-8.7620	-8.5447	-1.2343	+9.7147	+9.5336	+9.1530	4716	1131
690	+0.4962	+7.7172	-8.7559	-8.5455	-1.2324	+9.7198	+9.5846	+8.8914	4720	
691	+0.5175	+8.2520	-8.7739	-8.5661	-1.2317	+9.7216	+9.4074	+9.4075	4722	
692	+0.4964	+7.7181	-8.7540	-8.5504	-1.2305	+9.7247	+9.5835	+8.8923	4727	1135
693	+0.5191	+8.2618	-8.7714	-8.5770	-1.2278	+9.7312	+9.3911	+9.4160	4739	
694	+0.5097	+8.1008	-8.7594	-8.5678	-1.2270	+9.7332	+9.4839	+9.2662	4743	1146
695	+0.5073	+8.0330	-8.7514	-8.5778	-1.2216	+9.7458	+9.5045	+9.2010	4765	1151
696	+0.4989	+7.7739	-8.7388	-8.5872	-1.2145	+9.7607	+9.5669	+8.9474	4795	
697	+0.5179	+8.1345	-8.7265	-8.6414	-1.1901	+9.8028	+9.4099	+9.2950	4868	1181
698	+0.5376	+8.3481	-8.7452	-8.6715	-1.1854	+9.8096	+9.1430	+9.4862	4888	
699	+0.5198	+8.1435	-8.7201	-8.6532	-1.1826	+9.8134	+9.3908	+9.3037	4894	1191
700	+0.5199	+8.1445	-8.7199	-8.6537	-1.1823	+9.8130	+9.3897	+9.3047	4895	1192
701	+0.5238	+8.1927	-8.7228	-8.6589	-1.1813	+9.8152	+9.3460	+9.3490	4896	
702	+0.5397	+8.3481	-8.7383	-8.6837	-1.1773	+9.8205	+9.1042	+9.4848	4913	
703	+0.5116	+7.9980	-8.7064	-8.6542	-1.1763	+9.8218	+9.4710	+9.1636	4915	
704	+0.5108	+7.9744	-8.7017	-8.6585	-1.1722	+9.8269	+9.4778	+9.1428	4922	1201
705	+0.5328	+8.2719	-8.7228	-8.6800	-1.1721	+9.8270	+9.2258	+9.4180	4923	1202
706	+0.5105	+7.9597	-8.6976	-8.6626	-1.1685	+9.8313	+9.4809	+9.1234	4935	
707	+0.5436	+8.3446	-8.7237	-8.7059	-1.1604	+9.8404	+9.0216	+9.4791	4950	1212
708	+0.5229	+8.1247	-8.6931	-8.6365	-1.1550	+9.8462	+9.3583	+9.2843	4970	
709	+0.5235	+8.1309	-8.6933	-8.6874	-1.1546	+9.8465	+9.3522	+9.2901	4971	
710	+0.5418	+8.3077	-8.7086	-8.7128	-1.1496	+9.8516	+9.0641	+9.4464	4984	
711	+0.5322	+8.2087	-8.6912	-8.7052	-1.1446	+9.8564	+9.2388	+9.3598	4995	1225
712	+0.5320	+8.2030	-8.6887	-8.7068	-1.1424	+9.8584	+9.2411	+9.3545	5003	
713	+0.5483	+8.3446	-8.7087	-8.7277	-1.1420	+9.8588	+8.8971	+9.4758	5006	
714	+0.5117	+7.9289	-8.6708	-8.6901	-1.1418	+9.8590	+9.4711	+9.0977	5008	
715	+0.5393	+8.2612	-8.6907	-8.7199	-1.1366	+9.8636	+9.1176	+9.4050	5023	
716	+0.5298	+8.1502	-8.6694	-8.7165	-1.1269	+9.8718	+9.2751	+9.3054	5055	1238
717	+0.5234	+8.0762	-8.6631	-8.7111	-1.1264	+9.8722	+9.3547	+9.2372	5057	1239
718	+0.5227	+8.0594	-8.6580	-8.7137	-1.1220	+9.8756	+9.3632	+9.2212	5063	
719	+0.5161	+7.9627	-8.6509	-8.7104	-1.1199	+9.8772	+9.4319	+9.1295	5070	
720	+0.5273	+8.0953	-8.6500	-8.7254	-1.1107	+9.8839	+9.3084	+9.2538	5089	1251

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s				°	'	"			
721	ε ² Libræ	7	15	21	6.31	+3.382	+0.0134	-0.001	-16	55	9.5	-12.79	+0.380	+0.03
722	B.A.C. 5099	7	15	21	42.49	+3.381	+0.0133		-16	44	2.3	-12.78	+0.380	
723	ε ³ Libræ	6	15	22	13.21	+3.372	+0.0129	+0.004	-16	5	28.5	-12.77	+0.379	-0.03
724	B.A.C. 5109	6½	15	24	0.07	+3.423	+0.0144	-0.009	-19	9	16.5	-12.70	+0.389	-0.08
725	ε ⁴ Libræ	6	15	24	27.34	+3.380	+0.0129	+0.004	-16	20	24.2	-12.58	+0.383	+0.01
726	γ Libræ	4½	15	27	8.48	+3.344	+0.0118	+0.006	-14	17	6.7	-12.39	+0.383	+0.02
727	41 Libræ	6	15	30	16.87	+3.443	+0.0139	+0.011	-18	48	10.8	-12.22	+0.398	-0.03
728	42 Libræ	5½	15	31	25.36	+3.531	+0.0163	+0.001	-23	19	33.3	-12.11	+0.410	0.00
729	z Libræ	5	15	33	18.74	+3.445	+0.0140	+0.001	-19	11	18.2	-12.06	+0.403	-0.08
730	η Libræ	6	15	35	38.48	+3.371	+0.0118	+0.007	-15	11	27.0	-11.86	+0.397	-0.05
731	B.A.C. 5197	6	15	36	54.91	+3.559	+0.0165		-24	14	21.0	-11.73	+0.421	
732	b Scorp̄ii	5	15	41	58.00	+3.592	+0.0167	+0.001	-25	17	26.3	-11.40	+0.432	-0.04
733	λ Scorp̄ii	5	15	44	37.01	+3.587	+0.0163	+0.001	-24	52	29.2	-11.19	+0.434	-0.02
734	λ Libræ	6	15	44	38.15	+3.471	+0.0135	+0.002	-19	42	50.7	-11.19	+0.420	-0.02
735	B.A.C. 5253	6	15	44	56.77	+3.569	+0.0158	+0.002	-24	4	54.3	-11.15	+0.433	0.00
736	B.A.C. 5254	6	15	45	0.90	+3.556	+0.0155	+0.001	-23	31	32.1	-11.14	+0.431	0.00
737	B.A.C. 5255	6	15	45	12.19	+3.588	+0.0163		-24	57	37.5	-11.13	+0.435	
738	δ Libræ	4½	15	45	17.47	+3.410	+0.0118	+0.014	-16	17	5.3	-10.99	+0.412	+0.13
739	3 Scorp̄ii	6	15	45	39.69	+3.588	+0.0162	+0.003	-24	47	42.1	-11.28	+0.436	-0.19
740	4 Scorp̄ii	6	15	46	26.74	+3.612	+0.0167	+0.001	-25	49	11.5	-11.18	+0.440	-0.14
741	B.A.C. 5281	6	15	49	14.12	+3.492	+0.0136		-20	32	30.1	-10.83	+0.429	
742	B.A.C. 5286	6½	15	49	35.65	+3.582	+0.0156		-24	23	37.8	-10.81	+0.440	
743	z Scorp̄ii	3	15	49	47.14	+3.615	+0.0164	+0.003	-25	40	39.2	-10.85	+0.444	-0.06
744	48 Libræ	4½	15	49	47.75	+3.349	+0.0106	+0.001	-13	50	32.5	-10.78	+0.412	+0.01
745	49 Libræ	5½	15	51	54.72	+3.357	+0.0114	-0.041	-16	5	13.9	-10.99	+0.420	-0.36
746	B.A.C. 5314	6	15	54	17.35	+3.607	+0.0158	-0.006	-25	26	34.7	-10.59	+0.450	-0.13
747	ρ ¹ Scorp̄ii	2	15	56	43.31	+3.478	+0.0125	+0.003	-19	23	25.2	-10.30	+0.435	-0.02
748	ρ ² Scorp̄ii	5½	15	56	43.83	+3.470	+0.0125	-0.005	-19	23	13.3	-10.36	+0.435	-0.09
749	B.A.C. 5335	6½	15	57	10.28	+3.563	+0.0144		-23	11	33.9	-10.24	+0.447	
750	ω ¹ Scorp̄ii	4½	15	58	2.51	+3.502	+0.0129	+0.006	-20	15	27.2	-10.17	+0.439	+0.01
751	ω ² Scorp̄ii	4½	15	58	36.90	+3.508	+0.0129	+0.007	-20	27	31.1	-10.15	+0.441	-0.02
752	B.A.C. 5347	5	15	58	59.55	+3.642	+0.0156	+0.010	-25	55	13.3	-10.17	+0.458	-0.07
753	B.A.C. 5354	6½	15	59	46.77	+3.569	+0.0142		-23	16	47.7	-10.04	+0.451	
754	c ¹ Scorp̄ii	6	16	3	0.44	+3.692	+0.0164	+0.001	-28	1	17.1	-9.84	+0.470	-0.04
755	c ² Scorp̄ii	5	16	3	4.47	+3.689	+0.0161	+0.010	-27	31	55.1	-9.80	+0.468	-0.01
756	γ ¹ Scorp̄ii	7	16	3	16.01	+3.482	+0.0119	+0.008	-19	3	21.9	-9.89	+0.442	-0.11
757	γ ² Scorp̄ii	4	16	3	17.04	+3.478	+0.0119	+0.004	-19	3	58.7	-9.75	+0.442	+0.03
758	B.A.C. 5395	6	16	4	51.94	+3.519	+0.0126	-0.002	-21	0	46.6	-9.71	+0.450	-0.05
759	B.A.C. 5408	6½	16	6	0.40	+3.456	+0.0113		-18	8	37.1	-9.57	+0.443	
760	B.A.C. 5429	5½	16	9	0.37	+3.703	+0.0159	-0.003	-28	14	8.4	-9.53	+0.478	-0.19
761	19 Scorp̄ii	5½	16	11	37.11	+3.596	+0.0133	0.000	-23	48	6.0	-9.15	+0.467	-0.02
762	σ Scorp̄ii	3½	16	12	4.71	+3.634	+0.0139	+0.002	-25	13	40.0	-9.10	+0.470	0.00
763	B.A.C. 5464	6	16	15	15.15	+3.753	+0.0158	+0.008	-29	20	53.7	-9.02	+0.490	-0.17
764	ψ Ophiuchi	5	16	15	19.86	+3.501	+0.0112	+0.001	-19	40	53.4	-8.90	+0.458	-0.06
765	φ Ophiuchi	5	16	16	35.90	+3.586	+0.0125	+0.002	-23	5	44.8	-8.72	+0.470	+0.02
766	χ Ophiuchi	6	16	18	20.16	+3.468	+0.0103	+0.002	-18	6	40.2	-8.60	+0.457	+0.01
767	α Scorp̄ii	1½	16	20	13.03	+3.668	+0.0136	+0.004	-26	5	38.9	-8.49	+0.485	-0.03
768	22 Scorp̄ii	5	16	21	6.05	+3.635	+0.0128	+0.004	-24	46	44.8	-8.40	+0.481	-0.01
769	φ Ophiuchi	5	16	22	33.61	+3.430	+0.0093	+0.004	-16	16	50.9	-8.30	+0.455	-0.03
770	ω Ophiuchi	5	16	23	15.10	+3.546	+0.0111	+0.004	-21	8	28.2	-8.14	+0.471	+0.08
771	τ Scorp̄ii	3½	16	26	33.16	+3.725	+0.0137	+0.005	-27	53	58.4	-7.94	+0.498	+0.01
772	24 Scorp̄ii	5	16	32	54.17	+3.461	+0.0088	0.000	-17	26	48.8	-7.41	+0.469	+0.03
773	B.A.C. 5603	6½	16	35	37.69	+3.734	+0.0126	-0.006	-28	13	25.7	-7.22	+0.509	0.00
774	25 Scorp̄ii	6	16	37	40.73	+3.667	+0.0111	+0.006	-25	15	3.5	-7.29	+0.500	-0.24
775	18 Ophiuchi	6	16	40	36.81	+3.639	+0.0104	-0.001	-24	22	11.5	-6.83	+0.499	-0.02
776	B.A.C. 5641	6½	16	42	12.71	+3.647	+0.0103		-24	34	15.2	-6.68	+0.502	
777	B.A.C. 5663	6½	16	44	34.11	+3.526	+0.0086	-0.009	-20	9	41.1	-6.63	+0.488	-0.15
778	22 Ophiuchi	6½	16	45	47.28	+3.617	+0.0094	+0.002	-23	15	36.6	-6.43	+0.500	-0.05
779	B.A.C. 5695	6	16	47	22.63	+3.457	+0.0073	+0.009	-16	33	41.5	-6.15	+0.478	+0.10
780	24 Ophiuchi	6½	16	47	45.68	+3.611	+0.0091	+0.003	-22	54	24.1	-6.29	+0.500	-0.07

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
721	+0.5294	+8.1126	-8.6487	-8.7291	-1.1078	+9.8860	+9.2819	+9.2695	5096	1254
722	+0.5290	+8.1062	-8.6469	-8.7296	-1.1064	+9.8870	+9.2869	+9.2635	5099	1256
723	+0.5274	+8.0870	-8.6443	-8.7290	-1.1052	+9.8878	+9.3075	+9.2458	5100	
724	+0.5355	+8.1636	-8.6475	-8.7392	-1.1011	+9.8905	+9.1901	+9.3149	5109	
725	+0.5284	+8.0888	-8.6396	-8.7330	-1.1000	+9.8912	+9.2954	+9.2470	5112	1260
726	+0.5235	+8.0212	-8.6290	-8.7328	-1.0936	+9.8953	+9.3553	+9.1837	5134	1264
727	+0.5356	+8.1397	-8.6315	-8.7476	-1.0860	+9.8999	+9.1901	+9.2920	5161	1274
728	+0.5478	+8.2395	-8.6419	-8.7625	-1.0831	+9.9015	+8.9186	+9.3786	5166	1276
729	+0.5370	+8.1416	-8.6249	-8.7529	-1.0784	+9.9042	+9.1652	+9.2929	5176	1279
730	+0.5269	+8.0278	-8.6095	-8.7468	-1.0724	+9.9075	+9.3162	+9.1885	5190	1283
731	+0.5513	+8.2443	-8.6309	-8.7732	-1.0691	+9.9092	+8.7966	+9.3803	5197	
732	+0.5552	+8.2515	-8.6209	-8.7836	-1.0554	+9.9160	+8.6064	+9.3839	5232	1291
733	+0.5546	+8.2359	-8.6120	-8.7856	-1.0480	+9.9194	+8.6464	+9.3697	5250	1295
734	+0.5401	+8.1240	-8.5959	-8.7695	-1.0480	+9.9194	+9.1082	+9.2738	5251	1296
735	+0.5524	+8.2190	-8.6083	-8.7832	-1.0471	+9.9198	+8.7559	+9.3556	5253	1297
736	+0.5508	+8.2074	-8.6063	-8.7815	-1.0469	+9.9199	+8.8195	+9.3459	5254	
737	+0.5549	+8.2360	-8.6107	-8.7866	-1.0464	+9.9201	+8.6263	+9.3695	5255	
738	+0.5309	+8.0334	-8.5856	-8.7619	-1.0461	+9.9202	+9.2629	+9.1917	5257	1298
739	+0.5545	+8.2314	-8.6088	-8.7866	-1.0451	+9.9207	+8.6484	+9.3655	5260	1299
740	+0.5576	+8.2492	-8.6102	-8.7913	-1.0428	+9.9217	+8.4298	+9.3796	5265	1301
741	+0.5431	+8.1301	-8.5849	-8.7775	-1.0347	+9.9251	+9.0457	+9.2777	5281	
742	+0.5541	+8.2121	-8.5960	-8.7901	-1.0336	+9.9255	+8.6730	+9.3475	5286	
743	+0.5578	+8.2367	-8.5999	-8.7948	-1.0331	+9.9258	+8.4133	+9.3676	5289	1307
744	+0.5248	+7.9464	-8.5675	-8.7625	-1.0330	+9.9258	+9.3418	+9.1697	5290	1308
745	+0.5312	+8.0084	-8.5657	-8.7696	-1.0267	+9.9283	+9.2603	+9.1671	5304	1313
746	+0.5579	+8.2185	-8.5854	-8.7993	-1.0194	+9.9311	+8.4031	+9.3503	5314	
747	+0.5409	+8.0800	-8.5588	-8.7832	-1.0118	+9.9339	+9.0941	+9.2307	5329	1318
748	+0.5409	+8.0799	-8.5588	-8.7832	-1.0118	+9.9339	+9.0945	+9.2306	5330	1319
749	+0.5518	+8.1641	-8.5687	-8.7949	-1.0104	+9.9344	+8.7796	+9.3035	5335	
750	+0.5436	+8.0964	-8.5570	-8.7870	-1.0076	+9.9354	+9.0362	+9.2447	5337	
751	+0.5442	+8.0992	-8.5557	-8.7882	-1.0057	+9.9360	+9.0212	+9.2470	5342	1324
752	+0.5601	+8.2128	-8.5722	-8.8064	-1.0045	+9.9364	+8.1038	+9.3429	5347	
753	+0.5525	+8.1575	-8.5605	-8.7981	-1.0019	+9.9373	+8.7513	+9.2667	5354	
754	+0.5672	+8.2389	-8.5670	-8.8188	-0.9912	+9.9408	-8.4281	+9.3609	5380	
755	+0.5657	+8.2297	-8.5648	-8.8170	-0.9909	+9.9408	-8.2695	+9.3536	5381	1329
756	+0.5408	+8.0503	-8.5364	-8.7895	-0.9902	+9.9411	+9.0973	+9.2019	5383	1330
757	+0.5408	+8.0505	-8.5364	-8.7895	-0.9902	+9.9411	+9.0969	+9.2021	5382	1331
758	+0.5466	+8.0910	-8.5364	-8.7965	-0.9848	+9.9427	+8.9581	+9.2372	5395	
759	+0.5355	+8.0180	-8.5247	-8.7900	-0.9809	+9.9439	+9.1421	+9.1720	5408	
760	+0.5689	+8.2219	-8.5469	-8.8259	-0.9702	+9.9469	-8.5611	+9.3430	5429	
761	+0.5558	+8.1269	-8.5210	-8.8120	-0.9607	+9.9495	+8.5775	+9.2644	5445	
762	+0.5692	+8.1538	-8.5242	-8.8174	-0.9590	+9.9500	+8.1072	+9.2864	5447	1346
763	+0.5735	+8.2186	-8.5283	-8.8365	-0.9470	+9.9530	-8.7889	+9.3350	5464	
764	+0.5440	+8.0218	-8.4945	-8.8031	-0.9467	+9.9530	+9.0265	+9.1718	5467	1349
765	+0.5543	+8.0993	-8.4997	-8.8144	+0.9417	+9.9542	+8.6646	+9.2331	5477	
766	+0.5398	+7.9712	-8.4786	-8.8018	-0.9349	+9.9558	+9.1196	+9.1252	5489	1354
767	+0.5640	+8.1390	-8.4957	-8.8281	-0.9273	+9.9575	-7.9590	+9.2684	5498	1356
768	+0.5601	+8.1097	-8.4873	-8.8241	-0.9237	+9.9582	+8.1239	+9.2438	5501	1358
769	+0.5348	+7.9048	-8.4571	-8.8012	-0.9176	+9.9595	+9.2074	+9.0631	5516	1365
770	+0.5493	+8.0237	-8.4667	-8.8143	-0.9147	+9.9601	+8.8797	+9.1696	5519	1366
771	+0.5706	+8.1460	-8.4759	-8.8404	-0.9005	+9.9629	-8.6637	+9.2684	5539	1371
772	+0.5392	+7.8905	-8.4137	-8.8122	-0.8715	+9.9679	+9.1323	+9.0462	5579	1386
773	+0.5729	+8.1099	-8.4351	-8.8488	-0.8584	+9.9699	-8.7604	+9.2310	5603	
774	+0.5636	+8.0435	-8.4135	-8.8389	-0.8482	+9.9714	-7.5389	+9.1760	5614	1394
775	+0.5611	+8.0109	-8.3953	-8.8379	-0.8331	+9.9734	+7.8573	+9.1464	5633	
776	+0.5619	+8.0064	-8.3875	-8.8396	-0.8246	+9.9745	+7.4150	+9.1412	5641	
777	+0.5484	+7.8983	-8.3609	-8.8274	-0.8117	+9.9760	+8.9096	+9.0469	5663	
778	+0.5582	+7.9599	-8.3634	-8.8376	-0.8049	+9.9768	+8.3856	+9.0992	5680	
779	+0.5376	+7.7908	-8.3359	-8.8201	-0.7958	+9.9778	+9.1617	+8.9485	5695	
780	+0.5572	+7.9412	-8.3510	-8.8376	-0.7936	+9.9781	+8.4713	+9.0816	5698	

No.	Name.	Mag.	Mean Right Ascension 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0	Annual Variation.	Secular Variation.	Proper Motion.
781	B.A.C. 5700	6½	^h 16 48 ^m 15.32 ^s	+3.510	+0.0080	—0.006	—19 17 50.7	—6.21	+0.488	—0.03
782	B.A.C. 5709	6	16 50 46.88	+3.662	+0.0094	0.000	—24 51 39.0	—6.13	+0.510	—0.16
783	26 Ophiuchi	6	16 50 58.60	+3.660	+0.0094	+0.001	—24 45 23.0	—6.09	+0.510	—0.14
784	29 Ophiuchi	6	16 53 4.98	+3.502	+0.0073	—0.001	—18 39 32.0	—5.76	+0.385	+0.01
785	B.A.C. 5758	6	16 57 14.76	+3.575	+0.0076	+0.001	—21 21 2.4	—5.50	+0.502	—0.08
786	B.A.C. 5768	6½	16 59 12.63	+3.821	+0.0101		—30 11 26.7	—5.26	+0.538	
787	B.A.C. 5771	6½	16 59 32.46	+3.472	+0.0064	—0.003	—17 24 25.7	—5.38	+0.489	—0.15
788	γ Ophiuchi	2½	17 1 46.75	+3.435	+0.0057	+0.005	—15 32 2.4	—4.92	+0.484	+0.12
789	29 Scorpii	6½	17 4 53.94	+3.725	+0.0082	—0.002	—26 47 56.7	—4.90	+0.528	—0.12
790	A ¹ Ophiuchi	5½	17 6 7.65	+3.683	+0.0079	—0.032	—26 22 37.3	—5.81	+0.527	—1.14
791	A ² Ophiuchi	6	17 6 7.87	+3.683	+0.0079	—0.032	—26 22 33.5	—5.81	+0.527	—1.14
792	B.A.C. 5809	6½	17 6 16.94	+3.822	+0.0089		—30 1 51.7	—4.66	+0.542	
793	38 Ophiuchi	6½	17 8 20.60	+3.718	+0.0075	—0.001	—26 27 28.4	—4.57	+0.529	—0.09
794	39 Ophiuchi	6	17 8 52.05	+3.654	+0.0069	0.000	—24 7 5.2	—4.44	+0.520	0.00
795	B.A.C. 5831	6	17 8 57.63	+3.657	+0.0069	+0.008	—23 54 7.3	—4.55	+0.519	—0.12
796	B.A.C. 5839	6½	17 11 9.55	+3.486	+0.0053	+0.001	—17 35 40.6	—4.27	+0.497	—0.03
797	ε Ophiuchi	5	17 12 1.04	+3.592	+0.0058	+0.021	—20 56 47.9	—4.36	+0.510	—0.19
798	δ Ophiuchi	3½	17 12 47.98	+3.670	+0.0066	+0.003	—24 50 39.4	—4.15	+0.525	—0.05
799	43 Ophiuchi	6	17 13 55.54	+3.770	+0.0072	+0.003	—27 59 26.4	—4.01	+0.538	0.00
800	B.A.C. 5866	6	17 15 43.78	+3.571	+0.0054	—0.011	—21 17 46.1	—3.93	+0.513	—0.08
801	b Ophiuchi	5	17 17 12.69	+3.660	+0.0057	+0.004	—24 1 54.4	—3.80	+0.524	—0.08
802	d Ophiuchi	4	17 17 46.77	+3.819	+0.0070	—0.002	—29 43 32.9	—3.87	+0.548	—0.20
803	B.A.C. 5884	6½	17 18 4.07	+3.821	+0.0069	+0.004	—29 35 33.3	—4.01	+0.547	—0.36
804	c ² Ophiuchi	5	17 22 15.92	+3.660	+0.0051	+0.007	—23 50 27.5	—3.31	+0.526	—0.02
805	B.A.C. 5909	6½	17 22 25.71	+3.717	+0.0055	—0.001	—26 8 58.0	—3.36	+0.535	—0.09
806	B.A.C. 5948	6½	17 28 59.87	+3.428	+0.0031	—0.009	—15 28 28.3	—2.78	+0.497	—0.07
807	ξ Serpentis	3½	17 28 59.96	+3.433	+0.0031	0.000	—15 17 55.9	—2.75	+0.496	—0.05
808	B.A.C. 5954	6	17 29 44.27	+3.603	+0.0038	+0.002	—21 49 3.5	—2.56	+0.521	+0.08
809	58 Ophiuchi	5	17 34 26.60	+3.594	+0.0032	—0.003	—21 36 16.5	—2.16	+0.521	+0.07
810	3 Sagittarii	5	17 38 7.11	+3.767	+0.0034	—0.004	—27 46 4.6	—1.91	+0.548	0.00
811	B.A.C. 6024	6½	17 40 58.34	+3.751	+0.0020	+0.001	—27 0 25.9	—1.69	+0.545	—0.03
812	63 Ophiuchi	6½	17 45 40.33	+3.693	+0.0020	+0.004	—24 51 12.1	—1.42	+0.537	—0.17
813	B.A.C. 6060	6½	17 47 4.71	+3.518	+0.0015	—0.006	—18 46 10.7	—1.15	+0.513	—0.62
814	B.A.C. 6063	6	17 47 14.76	+3.782	+0.0020		—28 2 13.6	—1.12	+0.551	
815	B.A.C. 6065	6	17 47 41.34	+3.442	+0.0013	—0.006	—15 46 54.6	—1.27	+0.502	—0.19
816	B.A.C. 6072	6½	17 49 7.89	+3.803	+0.0018		—28 43 57.8	—0.95	+0.554	
817	B.A.C. 6074	5	17 49 27.22	+3.852	+0.0018	+0.003	—30 13 55.7	—1.00	+0.561	—0.08
818	4 Sagittarii	5	17 50 38.11	+3.661	+0.0012	+0.001	—23 47 48.3	—0.83	+0.533	—0.01
819	B.A.C. 6081	6½	17 51 4.84	+3.564	+0.0011	—0.001	—20 19 25.6	—0.92	+0.520	—0.14
820	6 Sagittarii	6	17 52 40.26	+3.482	+0.0008	—0.001	—17 8 44.8	—0.64	+0.508	0.00
821	B.A.C. 6088	6	17 52 49.21	+3.628	+0.0010	—0.004	—22 46 16.1	—0.71	+0.529	—0.08
822	7 Sagittarii	6	17 53 39.58	+3.672	+0.0008	—0.001	—24 16 33.4	—0.58	+0.536	—0.02
823	B.A.C. 6098	6	17 53 40.39	+3.574	+0.0008	—0.003	—20 43 52.8	—0.70	+0.521	—0.15
824	9 Sagittarii	4½	17 54 40.59	+3.676	+0.0008	0.000	—24 21 29.2	—0.48	+0.536	—0.01
825	γ ¹ Sagittarii	4	17 55 26.54	+3.840	+0.0007	+0.011	—29 34 53.0	—0.48	+0.558	—0.08
826	γ ² Sagittarii	3½	17 56 10.56	+3.858	+0.0007	+0.002	—30 25 12.4	—0.57	+0.562	—0.23
827	B.A.C. 6120	6½	17 57 17.17	+3.808	+0.0004	+0.015	—28 22 8.2	—0.18	+0.553	+0.06
828	B.A.C. 6127	5	17 58 34.97	+3.795	+0.0002	—0.001	—28 28 2.9	—0.23	+0.554	—0.11
829	B.A.C. 6145	6	18 0 25.57	+3.867	+0.0000	+0.001	—30 44 51.7	—0.09	+0.564	—0.13
830	B.A.C. 6161	6	18 2 34.11	+3.658	—0.0004	0.000	—23 43 31.1	+0.16	+0.534	—0.07
831	μ ¹ Sagittarii	4	18 4 47.56	+3.587	—0.0006	+0.001	—21 5 33.9	+0.43	+0.523	+0.01
832	15 Sagittarii	5	18 6 15.86	+3.578	—0.0008	+0.001	—20 46 5.3	+0.59	+0.522	+0.04
833	16 Sagittarii	6	18 6 17.63	+3.574	—0.0008	+0.006	—20 25 38.7	+0.58	+0.520	—0.03
834	B.A.C. 6190	6½	18 7 52.87	+3.802	—0.0013		—28 41 44.8	+0.69	+0.554	
835	B.A.C. 6191	6½	18 7 53.63	+3.805	—0.0013	+0.014	—28 19 43.0	+0.50	+0.553	—0.19
836	B.A.C. 6194	5½	18 8 39.90	+3.759	—0.0013	+0.005	—27 5 29.8	+0.70	+0.547	—0.06
837	δ Sagittarii	3½	18 11 23.43	+3.842	—0.0020	+0.004	—29 53 10.5	+0.94	+0.559	—0.06
838	B.A.C. 6210	6	18 11 30.76	+3.458	—0.0012	+0.007	—15 53 17.7	+1.01	+0.503	
839	B.A.C. 6217	6½	18 12 17.56	+3.693	—0.0017		—24 58 33.1	+1.08	+0.538	
840	B.A.C. 6220	6½	18 12 30.77	+3.795	—0.0020		—28 29 43.7	+1.09	+0.553	

ZODIACAL STARS.

29

No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
781	+0.5461	+7.8567	-8.3275	-8.8274	-0.7907	+9.9784	+8.9786	+9.0076	5700	
782	+0.5637	+7.9632	-8.3395	-8.8460	-0.7756	+9.9799	-7.8865	+9.0971	5709	
783	+0.5634	+7.9600	-8.3380	-8.8458	-0.7745	+9.9800	-7.7634	+9.0942	5711	
784	+0.5444	+7.8116	-8.3065	-8.8286	-0.7614	+9.9812	+9.0204	+8.9642	5723	
785	+0.5531	+7.8480	-8.2868	-8.8383	-0.7342	+9.9835	+8.7300	+8.9932	5758	
786	+0.5822	+8.0072	-8.3058	-8.8718	-0.7208	+9.9845	-9.0422	+9.1200	5768	
787	+0.5410	+7.7364	-8.2605	-8.8290	-0.7185	+9.9847	+9.0980	+8.8921	5771	
788	+0.5353	+7.6681	-8.2403	-8.8259	-0.7024	+9.9858	+9.2011	+8.8280	5781	1442
789	+0.5713	+7.9041	-8.2501	-8.8606	-0.6790	+9.9873	-8.7042	+9.0308	5800	1450
790	+0.5700	+7.8864	-8.2338	-8.8595	-0.6694	+9.9879	-8.6365	+9.0148	5808	1452
791	+0.5700	+7.8864	-8.2338	-8.8595	-0.6694	+9.9879	-8.6365	+9.0148	5808	1453
792	+0.5823	+7.9518	-8.2525	-8.8744	-0.6682	+9.9880	-9.0453	+9.0653	5809	
793	+0.5704	+7.8701	-8.2212	-8.8608	-0.6515	+9.9889	-8.6609	+8.9981	5822	
794	+0.5628	+7.8198	-8.2085	-8.8527	-0.6471	+9.9891	-7.3802	+8.9562	5827	1463
795	+0.5621	+7.8146	-8.2070	-8.8520	-0.6463	+9.9891	+7.1761	+8.9517	5831	1465
796	+0.5422	+7.6504	-8.1700	-8.8348	-0.6275	+9.9901	+9.0730	+8.8057	5839	1467
797	+0.5528	+7.7246	-8.1713	-8.8440	-0.6199	+9.9904	+8.7451	+8.8710	5844	1471
798	+0.5655	+7.8002	-8.1768	-8.8568	-0.6129	+9.9907	-8.2430	+8.9341	5851	1474
799	+0.5760	+7.8498	-8.1783	-8.8691	-0.6026	+9.9912	-8.8848	+8.9718	5857	
800	+0.5541	+7.6980	-8.1379	-8.8465	-0.5854	+9.9919	+8.6803	+8.8434	5866	
801	+0.5631	+7.7417	-8.1319	-8.8557	-0.5708	+9.9924	-7.5798	+8.8784	5876	1482
802	+0.5822	+7.8434	-8.1481	-8.8778	-0.5651	+9.9926	-9.0438	+8.9582	5881	
803	+0.5817	+7.8381	-8.1446	-8.8773	-0.5622	+9.9927	-9.0342	+8.9535	5884	
804	+0.5627	+7.6838	-8.0772	-8.8567	-0.5168	+9.9941	-7.2553	+8.8211	5907	1496
805	+0.5703	+7.7277	-8.0835	-8.8649	-0.5149	+9.9941	-8.6561	+8.8569	5909	
806	+0.5362	+7.3961	-7.9699	-8.8360	-0.4321	+9.9960	+9.1870	+8.5561	5948	1510
807	+0.5357	+7.3908	-7.9694	-8.8356	-0.4321	+9.9960	+9.1965	+8.5512	5949	1509
808	+0.5564	+7.5458	-7.9757	-8.8524	-0.4217	+9.9962	+8.5378	+8.6816	5954	
809	+0.5559	+7.4680	-7.9019	-8.8528	-0.3436	+9.9973	+8.5752	+8.6125	5987	1522
810	+0.5765	+7.5245	-7.8562	-8.8751	-0.2814	+9.9980	-8.9620	+8.6475	6008	1527
811	+0.5740	+7.4499	-7.7928	-8.8726	-0.2209	+9.9985	-8.8189	+8.5759	6024	
812	+0.5669	+7.2854	-7.6618	-8.8653	-0.0979	+9.9992	-8.4099	+8.4193	6053	
813	+0.5471	+7.1055	-7.5980	-8.8470	-0.0526	+9.9993	+8.9523	+8.2579	6060	
814	+0.5777	+7.2955	-7.6234	-8.8775	-0.0475	+9.9993	-8.9360	+8.4174	6063	
815	+0.5376	+7.0050	-7.5705	-8.8400	-0.0321	+9.9994	+9.1644	+8.1644	6065	
816	+0.5801	+7.2387	-7.5568	-8.8805	-0.9781	+9.9995	-8.9987	+8.3577	6072	
817	+0.5853	+7.2520	-7.5500	-8.8869	-0.9649	+9.9995	-9.1076	+8.3646	6074	1540
818	+0.5634	+7.0795	-7.4737	-8.8621	-0.9134	+9.9996	-7.7782	+8.2170	6077	1541
819	+0.5521	+6.9826	-7.4419	-8.8515	-0.8922	+9.9997	+8.7767	+8.1308	6081	
820	+0.5419	+6.8181	-7.3486	-8.8434	-0.8071	+9.9998	+9.0792	+7.9745	6086	1547
821	+0.5601	+6.9429	-7.3552	-8.8589	-0.7932	+9.9998	+8.1206	+8.0838	6088	1548
822	+0.5651	+6.9199	-7.3059	-8.8640	-0.7440	+9.9998	-8.1875	+8.0558	6097	1556
823	+0.5535	+6.8430	-7.2040	-8.8528	-0.7432	+9.9998	+8.7160	+7.9900	6098	1557
824	+0.5653	+6.8456	-7.2303	-8.8643	-0.6681	+9.9999	-8.2305	+7.9812	6102	1559
825	+0.5831	+6.8765	-7.1831	-8.8845	-0.6008	+9.9999	-9.0652	+7.9920	6107	
826	+0.5861	+6.8149	-7.1105	-8.8882	-0.5245	+9.9999	-9.1209	+7.9267	6115	1562
827	+0.5789	+6.6296	-6.9528	-8.8794	-0.3755	+0.0000	-8.9699	+7.7501	6120	
828	+0.5793	+6.3492	-6.6710	-8.8799	-0.0933	+0.0000	-8.9786	+7.4693	6127	
829	+0.5873	-5.8683	+6.1596	-8.8897	+8.5721	+0.0000	-9.1408	-6.9786	6145	
830	+0.5633	-6.5164	+6.9118	-8.8622	+9.3518	+0.0000	-7.6990	-7.6542	6161	
831	+0.5546	-6.7307	+7.1746	-8.8539	+9.6227	+9.9999	+8.6542	-7.8767	6168	1578
832	+0.5536	-6.8397	+7.2900	-8.8529	+9.7392	+9.9998	+8.7110	-7.9866	6179	1582
833	+0.5525	-6.8336	+7.2908	-8.8520	+9.7409	+9.9998	+8.7619	-7.9815	6180	
834	+0.5800	-7.0985	+7.4171	-8.8806	+9.8385	+9.9997	-8.9965	-8.2177	6190	
835	+0.5787	-7.0926	+7.4163	-8.8791	+9.8392	+9.9997	-8.9647	-8.2133	6191	
836	+0.5745	-7.1104	+7.4520	-8.8741	+9.8798	+9.9997	-8.8370	-8.2360	6194	
837	+0.5841	-7.2796	+7.5821	-8.8854	+9.9984	+9.9995	-9.0846	-8.3937	6209	1587
838	+0.5379	-6.9760	+7.5416	-8.8403	+0.0030	+9.9995	+9.1584	-8.1382	6210	
839	+0.5673	-7.2218	+7.5962	-8.8659	+0.0318	+9.9994	-8.4518	-8.3552	6217	
840	+0.5793	-7.2954	+7.6168	-8.8793	+0.0390	+9.9994	-8.9777	-8.4154	6220	

No.	Name.	Mag.	Mean Right Ascension 1850.0.		Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.		Annual Variation.	Secular Variation.	Proper Motion.
			^h	^m				^s	[°]			
841	B.A.C. 6239	6	18 15	23.15	+3.863	-0.0027	-0.004	-30 49	39.8	+1.20	+0.563	-0.15
842	21 Sagittarii	5	18 16	24.94	+3.574	-0.0020	+0.002	-20 37	0.1	+1.42	+0.520	-0.02
843	B.A.C. 6249	6½	18 17	3.27	+3.855	-0.0029		-30 28	16.9	+1.49	+0.561	
844	B.A.C. 6260	6½	18 18	13.88	+3.837	-0.0031		-29 54	4.1	+1.59	+0.558	
845	λ Sagittarii	3	18 18	43.17	+3.707	-0.0027	+0.001	-25 29	57.3	+1.41	+0.539	-0.23
846	B.A.C. 6267	6	18 19	11.32	+3.501	-0.0021		-17 53	11.0	+1.68	+0.509	
847	B.A.C. 6237	6	18 21	22.63	+3.519	-0.0024	-0.005	-18 49	3.9	+1.78	+0.512	-0.09
848	B.A.C. 6292	6	18 22	31.03	+3.513	-0.0026	-0.016	-18 59	54.0	+1.70	+0.512	-0.27
849	B.A.C. 6293	6½	18 22	37.06	+3.529	-0.0025	+0.017	-18 21	37.1	+1.96	+0.510	-0.02
850	B.A.C. 6274	6	18 22	38.88	+3.509	-0.0025	-0.007	-18 30	1.6	+1.89	+0.510	-0.09
851	B.A.C. 6310	6½	18 24	37.12	+3.869	-0.0043		-30 59	17.5	+2.15	+0.561	
852	24 Sagittarii	6	18 24	43.74	+3.668	-0.0034	+0.002	-24 8	17.0	+2.16	+0.532	0.00
853	B.A.C. 6336	6½	18 28	55.60	+3.593	-0.0036	-0.001	-21 31	0.0	+2.38	+0.520	-0.14
854	B.A.C. 6343	6	18 29	23.20	+3.654	-0.0040	+0.003	-23 37	38.9	+2.59	+0.525	+0.03
855	B.A.C. 6347	6½	18 29	56.71	+3.588	-0.0037	+0.004	-21 10	15.4	+2.27	+0.518	-0.34
856	26 Sagittarii	6	18 32	42.60	+3.666	-0.0044	+0.007	-23 58	4.5	+2.84	+0.528	-0.01
857	B.A.C. 6369	6	18 35	36.34	+3.696	-0.0050	+0.005	-25 9	29.8	+2.82	+0.532	-0.28
858	φ Sagittarii	3½	18 36	16.97	+3.758	-0.0055	+0.011	-27 8	22.8	+3.13	+0.540	-0.03
859	23 Sagittarii	6	18 37	17.93	+3.624	-0.0048	+0.006	-22 32	35.4	+3.26	+0.521	+0.01
860	29 Sagittarii	6	18 40	45.91	+3.565	-0.0049	+0.003	-20 29	23.5	+3.55	+0.511	0.00
861	30 Sagittarii	6	18 41	49.48	+3.612	-0.0053	+0.001	-22 19	42.7	+3.61	+0.518	-0.03
862	B.A.C. 6414	6½	18 43	5.87	+3.857	-0.0074		-30 54	20.7	+3.75	+0.553	
863	31 Sagittarii	6	18 43	7.77	+3.609	-0.0055	+0.005	-22 5	31.3	+3.73	+0.516	-0.02
864	33 Sagittarii	6	18 45	2.21	+3.594	-0.0056	+0.006	-21 32	14.0	+3.96	+0.513	+0.04
865	ν ¹ Sagittarii	5	18 45	6.64	+3.627	-0.0058	+0.002	-22 55	25.9	+3.93	+0.519	+0.01
866	σ Sagittarii	2½	18 45	57.77	+3.729	-0.0068	+0.006	-26 28	38.8	+3.92	+0.532	-0.08
867	τ ² Sagittarii	5	18 46	2.95	+3.632	-0.0060	+0.009	-22 51	9.8	+4.02	+0.518	+0.02
868	B.A.C. 6447	6	18 46	52.53	+3.460	-0.0048		-16 33	13.1	+4.08	+0.494	
869	B.A.C. 6448	6	18 46	55.82	+3.643	-0.0062	+0.007	-23 21	29.0	+4.11	+0.519	+0.03
870	ξ ¹ Sagittarii	6	18 48	25.59	+3.569	-0.0059	+0.001	-20 50	48.9	+4.21	+0.509	0.00
871	ξ ² Sagittarii	4	18 48	46.65	+3.583	-0.0060	+0.003	-21 17	55.0	+4.24	+0.510	0.00
872	B.A.C. 6485	6½	18 52	34.97	+3.612	-0.0068	-0.009	-22 54	0.8	+4.57	+0.514	+0.01
873	ζ Sagittarii	3½	18 53	3.77	+3.828	-0.0088	+0.003	-30 5	20.5	+4.57	+0.543	-0.03
874	B.A.C. 6490	6½	18 53	16.73	+3.678	-0.0075	-0.001	-25 2	59.4	+4.32	+0.522	-0.30
875	ο Sagittarii	4	18 55	41.44	+3.600	-0.0069	+0.006	-21 57	20.9	+4.80	+0.509	-0.03
876	B.A.C. 6519	6	18 57	5.78	+3.439	-0.0057		-15 52	52.1	+4.95	+0.486	
877	τ Sagittarii	3½	18 57	34.27	+3.755	-0.0088	-0.001	-27 53	2.6	+4.76	+0.531	-0.23
878	B.A.C. 6524	6½	18 57	56.72	+3.606	-0.0074	-0.007	-22 43	21.1	+4.98	+0.510	-0.04
879	B.A.C. 6536	6	18 59	27.80	+3.535	-0.0067	+0.006	-19 31	12.4	+5.15	+0.497	
880	B.A.C. 6539	6	18 59	38.68	+3.572	-0.0072		-21 13	4.7	+5.16	+0.503	
881	π Sagittarii	3	19 0	50.33	+3.575	-0.0073	+0.002	-21 15	24.6	+5.27	+0.503	+0.01
882	B.A.C. 6549	6½	19 0	54.14	+3.823	-0.0101		-30 14	22.8	+5.27	+0.538	
883	B.A.C. 6554	6½	19 1	48.66	+3.806	-0.0100		-29 44	24.4	+5.34	+0.535	
884	B.A.C. 6561	6	19 3	29.95	+3.581	-0.0078	-0.007	-21 54	5.1	+5.45	+0.503	-0.04
885	B.A.C. 6562	6½	19 3	59.14	+3.694	-0.0092	-0.008	-26 9	13.1	+5.37	+0.519	-0.16
886	B.A.C. 6569	6	19 5	10.97	+3.796	-0.0105		-29 29	22.3	+5.63	+0.531	
887	ψ Sagittarii	5	19 6	20.44	+3.687	-0.0093	+0.005	-25 30	33.8	+5.74	+0.515	+0.01
888	B.A.C. 6576	6	19 6	24.61	+3.655	-0.0089	+0.002	-24 25	51.1	+5.50	+0.511	-0.23
889	δ Sagittarii	5	19 8	51.27	+3.519	-0.0076	+0.003	-19 12	53.2	+5.98	+0.490	+0.04
890	B.A.C. 6590	6	19 10	26.84	+3.417	-0.0069	-0.014	-15 47	34.4	+5.63	+0.477	-0.44
891	B.A.C. 6607	6	19 11	38.49	+3.594	-0.0090	-0.008	-22 40	38.5	+6.10	+0.500	-0.07
892	θ ¹ Sagittarii	4	19 12	57.99	+3.489	-0.0078	+0.003	-18 7	28.7	+6.34	+0.483	+0.06
893	θ ² Sagittarii	5½	19 13	5.77	+3.508	-0.0079	+0.011	-18 34	53.0	+6.26	+0.484	-0.03
894	υ Sagittarii	4½	19 13	8.01	+3.446	-0.0073	+0.006	-16 13	55.0	+6.25	+0.476	-0.04
895	B.A.C. 6628	6	19 15	8.99	+3.753	-0.0114	+0.005	-28 8	59.7	+6.47	+0.518	+0.01
896	B.A.C. 6631	6½	19 15	36.72	+3.789	-0.0121		-29 35	35.1	+6.50	+0.523	
897	χ ¹ Sagittarii	6	19 16	8.46	+3.659	-0.0103	+0.004	-24 47	39.9	+6.46	+0.504	-0.08
898	χ ² Sagittarii	6½	19 16	15.33	+3.654	-0.0102	+0.002	-24 42	6.3	+6.39	+0.503	-0.16
899	χ ³ Sagittarii	6	19 16	24.71	+3.642	-0.0100	+0.002	-24 15	2.8	+6.60	+0.502	+0.04
900	50 Sagittarii	6	19 17	22.25	+3.587	-0.0094	+0.005	-22 4	21.3	+6.49	+0.493	-0.15

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
841	+0.5873	-7.4263	+7.7167	-8.8891	+0.1288	+9.9990	-9.1418	-8.5363	6239	
842	+0.5530	-7.2541	+7.7074	-8.8515	+0.1570	+9.9989	+8.74.4	-8.4014	6247	1598
843	+0.5860	-7.4648	+7.7597	-8.8873	+0.1735	+9.9988	-9.1196	-8.5764	6249	
844	+0.5840	-7.4835	+7.7859	-8.8845	+0.2022	+9.9986	-9.0814	-8.5976	6260	
845	+0.5689	-7.4139	+7.7799	-8.8670	+0.2137	+9.9986	-8.5729	-8.5455	6263	1602
846	+0.5441	-7.2551	+7.7678	-8.8439	+0.2246	+9.9985	+9.0290	-8.4097	6267	1603
847	+0.5471	-7.3255	+7.8169	-8.8459	+0.2714	+9.9981	+8.9523	-8.4778	6287	
848	+0.5476	-7.3525	+7.8399	-8.8461	+0.2939	+9.9979	+8.9560	-8.5043	6292	
849	+0.5456	-7.3385	+7.8402	-8.8445	+0.2958	+9.9979	+8.9930	-8.4919	6293	
850	+0.5460	-7.3426	+7.8411	-8.8448	+0.2963	+9.9979	+8.9809	-8.4956	6294	1611
851	+0.5876	-7.6327	+7.9210	-8.8883	+0.3325	+9.9975	-9.1457	-8.7419	6310	
852	+0.5642	-7.5075	+7.8958	-8.8611	+0.3344	+9.9975	-8.0253	-8.6438	6312	
853	+0.5555	-7.5196	+7.9532	-8.8518	+0.4022	+9.9965	+8.5999	-8.6644	6336	1624
854	+0.5624	-7.5716	+7.9687	-8.8584	+0.4090	+9.9964	+6.0000	-8.7607	6343	1627
855	+0.5544	-7.5269	+7.9692	-8.8506	+0.4172	+9.9963	+8.6684	-8.6726	6347	1628
856	+0.5634	-7.6249	+8.0161	-8.8586	+0.4553	+9.9956	-7.7482	-8.7618	6356	1635
857	+0.5671	-7.6853	+8.0568	-8.8619	+0.4918	+9.9947	-8.4346	-8.8181	6369	
858	+0.5737	-7.7314	+8.0723	-8.8691	+0.5000	+9.9945	-8.8082	-8.8569	6371	1637
859	+0.5585	-7.6517	+8.0620	-8.8527	+0.5118	+9.9942	-8.3522	-8.7932	6380	
860	+0.5517	-7.6443	+8.1001	-8.8454	+0.5501	+9.9931	+8.7924	-8.7920	6399	1649
861	+0.5576	-7.6963	+8.1166	-8.8505	+0.5611	+9.9927	+8.4440	-8.8385	6407	
862	+0.5862	-7.8728	+8.1621	-8.8827	+0.5739	+9.9923	-9.1212	-8.9823	6414	
863	+0.5567	-7.7043	+8.1290	-8.8493	+0.5742	+9.9923	+8.5132	-8.8473	6415	1650
864	+0.5549	-7.7107	+8.1459	-8.8469	+0.5928	+9.9916	+8.6405	-8.8554	6432	
865	+0.5593	-7.7415	+8.1510	-8.8512	+0.5935	+9.9915	+8.2480	-8.8818	6434	1654
866	+0.5709	-7.8205	+8.1714	-8.8632	+0.6015	+9.9912	-8.6857	-8.9485	6440	1655
867	+0.5590	-7.7488	+8.1595	-8.8506	+0.6023	+9.9912	+8.2878	-8.8893	6441	1656
868	+0.5390	-7.6050	+8.1504	-8.8331	+0.6103	+9.9908	+9.1370	-8.7627	6447	
869	+0.5606	-7.7675	+8.1693	-8.8519	+0.6105	+9.9908	+8.0086	-8.9065	6448	
870	+0.5525	-7.7263	+8.1750	-8.8436	+0.6239	+9.9902	+8.7604	-8.8730	6454	
871	+0.5530	-7.7396	+8.1794	-8.8447	+0.6270	+9.9901	+8.6929	-8.8849	6461	1661
872	+0.5588	-7.8065	+8.2164	-8.8480	+0.6591	+9.9885	+8.3262	-8.9469	6485	
873	+0.5826	-7.9477	+8.2475	-8.8750	+0.6630	+9.9883	-9.6512	-9.6669	6489	1671
874	+0.5657	-7.8560	+8.2293	-8.8550	+0.6647	+9.9882	-8.2765	-8.9822	6490	
875	+0.5555	-7.8107	+8.2379	-8.8437	+0.6835	+9.9871	+8.5977	-8.9541	6507	1674
876	+0.5365	-7.6700	+8.2328	-8.8272	+0.6942	+9.9864	+9.1824	-8.8292	6519	
877	+0.5747	-7.9429	+8.2730	-8.8637	+0.6977	+9.9862	-8.8414	-9.0654	6521	1679
878	+0.5578	-7.8441	+8.2572	-8.8450	+0.7004	+9.9860	+8.4200	-8.9851	6524	
879	+0.5476	-7.7827	+8.2588	-8.8348	+0.7114	+9.9852	+8.9345	-8.9331	6536	1686
880	+0.5529	-7.8235	+8.2649	-8.8395	+0.7127	+9.9851	+8.7388	-8.6991	6539	
881	+0.5530	-7.8323	+8.2734	-8.8390	+0.7211	+9.9845	+8.7372	-8.9783	6548	1687
882	+0.5824	-8.0088	+8.3067	-8.8719	+0.7215	+9.9845	-9.0453	-9.1214	6549	
883	+0.5805	-8.0062	+8.3108	-8.8692	+0.7278	+9.9840	-9.0043	-9.1210	6554	
884	+0.5548	-7.8652	+8.2935	-8.8396	+0.7302	+9.9831	-8.6415	-9.0087	6561	
885	+0.5684	-7.9553	+8.3111	-8.8537	+0.7425	+9.9829	-8.5340	-9.0845	6562	
886	+0.5794	-8.0245	+8.3323	-8.8664	+0.7503	+9.9822	-8.9768	-9.1403	6569	
887	+0.5661	-7.9581	+8.3240	-8.8500	+0.7577	+9.9816	-8.3222	-9.6897	6575	
888	+0.5626	-7.9372	+8.3206	-8.8462	+0.7582	+9.9815	-7.1139	-9.6725	6576	
889	+0.5460	-7.8374	+8.3200	-8.8259	+0.7734	+9.9801	+8.9706	-8.9866	6584	1694
890	+0.5354	-7.7563	+8.3214	-8.8198	+0.7830	+9.9792	+9.1992	-8.9157	6590	1701
891	+0.5566	-7.9328	+8.3467	-8.8373	+0.7901	+9.9784	+8.5250	-9.0740	6607	
892	+0.5424	-7.8345	+8.3416	-8.8226	+0.7978	+9.9776	+9.0682	-8.9885	6619	1716
893	+0.5438	-7.8468	+8.3435	-8.8247	+0.7986	+9.9775	+9.0362	-8.9866	6620	1717
894	+0.5366	-7.7846	+8.3382	-8.8191	+0.7988	+9.9775	+9.1798	-8.9430	6621	1718
895	+0.5738	-8.0603	+8.3865	-8.8548	+0.8102	+9.9762	-8.8062	-9.1817	6628	
896	+0.5785	-8.0886	+8.3951	-8.8605	+0.8127	+9.9759	-8.9528	-9.2040	6631	
897	+0.5628	-8.0019	+8.3793	-8.8415	+0.8186	+9.9756	-7.3979	-9.1360	6633	1723
898	+0.5625	-8.0007	+8.3796	-8.8411	+0.8163	+9.9755	-6.9031	-9.1351	6634	
899	+0.5611	-7.9925	+8.3789	-8.8394	+0.8171	+9.9754	+7.8808	-9.1285	6636	
900	+0.5542	-7.9520	+8.3771	-8.8317	+0.8223	+9.9748	+8.6776	-9.0951	6638	

No.	Name.	Mag.	Mean Right Ascension 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.	Annual Variation.	Secular Variation.	Proper Motion
901	B.A.C. 6639	6	^h 19 17 27.38	^s +3.804	^s -0.0125	^s +0.004	-30° 2' 6.8	+ 6.46	+0.523	-0.19
902	B.A.C. 6643	6	19 17 38.74	+3.414	-0.0074	-0.003	-15 20 46.1	+ 6.56	+0.470	-0.11
903	B.A.C. 6658	6	19 19 21.51	+3.495	-0.0085		-18 39 26.4	+ 6.81	+0.480	
904	B.A.C. 6666	6	19 20 34.99	+3.712	-0.0117	-0.006	-27 17 16.9	+ 6.78	+0.509	-0.13
905	B.A.C. 6671	6	19 21 59.45	+3.558	-0.0097	-0.009	-21 37 8.3	+ 6.92	+0.487	-0.10
906	B.A.C. 6699	6½	19 26 37.41	+3.611	-0.0110	-0.003	-23 37 54.1	+ 7.41	+0.490	+0.01
907	<i>h</i> ¹ Sagittarii	6	19 26 54.88	+3.655	-0.0115	+0.004	-25 2 33.2	+ 7.41	+0.495	-0.02
908	<i>h</i> ² Sagittarii	4½	19 27 34.38	+3.663	-0.0117	+0.008	-25 12 33.9	+ 7.48	+0.495	0.00
909	B.A.C. 6727	6½	19 31 5.90	+3.618	-0.0115	+0.005	-23 45 57.7	+ 7.85	+0.486	+0.09
910	<i>e</i> ¹ Sagittarii	6	19 32 7.42	+3.445	-0.0090	+0.007	-16 37 56.5	+ 7.85	+0.460	0.00
911	<i>e</i> ² Sagittarii	5	19 33 56.10	+3.440	-0.0091	+0.007	-16 28 13.8	+ 8.03	+0.459	+0.04
912	B.A.C. 6746	6	19 34 59.79	+3.420	-0.0090	+0.003	-15 48 49.5	+ 7.81	+0.456	-0.27
913	<i>f</i> Sagittarii	5	19 37 36.49	+3.508	-0.0107	-0.009	-20 7 0.8	+ 8.26	+0.467	-0.03
914	B.A.C. 6776	6½	19 39 37.07	+3.372	-0.0088	-0.003	-14 4 4.1	+ 8.37	+0.446	-0.08
915	57 Sagittarii	5½	19 43 28.69	+3.498	-0.0109	+0.003	-19 25 17.3	+ 8.69	+0.459	-0.06
916	<i>ω</i> Sagittarii	5	19 46 38.65	+3.689	-0.0146	+0.018	-26 41 33.8	+ 9.10	+0.479	+0.10
917	6 Sagittarii	5	19 47 44.09	+3.696	-0.0152	+0.003	-27 33 44.7	+ 9.09	+0.480	+0.01
918	<i>g</i> Sagittarii	5½	19 49 26.41	+3.411	-0.0100	+0.002	-15 53 7.2	+ 9.17	+0.442	-0.05
919	A Sagittarii	5	19 49 48.36	+3.667	-0.0149	+0.002	-26 35 49.1	+ 9.29	+0.474	+0.04
920	B.A.C. 6864	6	19 52 28.63	+3.578	-0.0134	+0.003	-23 8 40.3	+ 9.39	+0.460	-0.06
921	<i>c</i> Sagittarii	5	19 53 25.50	+3.705	-0.0161	+0.006	-28 7 19.0	+ 9.58	+0.475	+0.05
922	63 Sagittarii	6	19 53 34.22	+3.368	-0.0097	+0.003	-14 2 51.0	+ 9.61	+0.432	+0.07
923	B.A.C. 6878	6½	19 54 50.47	+3.558	-0.0136	-0.011	-23 0 40.3	+ 9.62	+0.457	-0.01
924	B.A.C. 6889	6	19 56 8.19	+3.537	-0.0131	+0.005	-21 43 57.6	+ 9.68	+0.451	-0.05
925	65 Sagittarii	6	19 57 5.69	+3.342	-0.0095	0.000	-13 5 1.9	+ 9.84	+0.425	+0.03
926	<i>γ</i> ¹ Capricorni	6	20 3 39.00	+3.333	-0.0098	+0.001	-12 49 57.7	+10.30	+0.417	0.00
927	<i>γ</i> ² Capricorni	6	20 4 4.29	+3.352	-0.0099	+0.016	-13 3 5.7	+10.18	+0.417	-0.15
928	B.A.C. 6947	6	20 5 55.42	+3.757	-0.0171	+0.093	-27 28 28.8	+10.31	+0.456	-0.16
929	3 Capricorni	6½	20 8 4.37	+3.332	-0.0100	+0.004	-12 47 27.8	+10.69	+0.412	+0.06
930	4 Capricorni	6	20 9 12.34	+3.539	-0.0144	+0.006	-22 16 6.9	+10.67	+0.436	-0.05
931	<i>α</i> ¹ Capricorni	3½	20 9 19.77	+3.334	-0.0102	+0.003	-12 58 4.1	+10.75	+0.410	+0.02
932	<i>α</i> ² Capricorni	3½	20 9 43.67	+3.339	-0.0102	+0.008	-13 0 20.7	+10.79	+0.410	+0.03
933	<i>σ</i> Capricorni	5½	20 10 43.96	+3.477	-0.0132	+0.006	-19 34 55.8	+10.86	+0.426	+0.03
934	<i>ν</i> Capricorni	5	20 12 20.30	+3.337	-0.0105	+0.003	-13 13 36.7	+10.94	+0.407	-0.01
935	B.A.C. 6992	6½	20 12 20.65	+3.379	-0.0113	+0.003	-15 15 14.0	+10.94	+0.413	-0.01
936	<i>β</i> Capricorni	3	20 12 34.70	+3.380	-0.0113	+0.004	-15 15 3.4	+11.01	+0.412	+0.04
937	<i>π</i> Capricorni	5	20 18 43.78	+3.446	-0.0132	+0.003	-18 41 57.1	+11.46	+0.413	+0.05
938	<i>ρ</i> Capricorni	5	20 20 17.89	+3.433	-0.0131	0.000	-18 18 19.4	+11.55	+0.410	+0.03
939	B.A.C. 7043	6½	20 20 26.24	+3.421	-0.0130	-0.003	-17 55 32.0	+11.53	+0.409	0.00
940	B.A.C. 7049	6	20 20 42.83	+3.531	-0.0156	-0.001	-22 53 2.9	+11.51	+0.421	-0.04
941	<i>ο</i> Capricorni	6	20 21 17.67	+3.450	-0.0136	+0.002	-19 4 30.0	+11.58	+0.410	-0.02
942	B.A.C. 7063	6	20 22 39.77	+3.373	-0.0119		-15 33 9.7	+11.70	+0.400	
943	B.A.C. 7077	6	20 23 55.77	+3.574	-0.0173	-0.011	-25 26 49.0	+11.66	+0.423	-0.12
944	B.A.C. 7097	6	20 27 2.75	+3.397	-0.0129	-0.002	-17 2 14.0	+11.88	+0.397	-0.12
945	B.A.C. 7108	6½	20 28 55.78	+3.581	-0.0178		-25 37 37.0	+12.13	+0.416	
946	<i>τ</i> ¹ Capricorni	6	20 28 56.19	+3.374	-0.0124	+0.005	-15 39 46.2	+12.15	+0.391	+0.01
947	<i>τ</i> ² Capricorni	5	20 30 52.75	+3.365	-0.0123	+0.002	-15 28 38.5	+12.24	+0.388	-0.03
948	<i>ν</i> Capricorni	5½	20 31 30.27	+3.426	-0.0139	-0.001	-18 39 46.1	+12.36	+0.395	+0.05
949	B.A.C. 7145	6½	20 32 6.39	+3.379	-0.0130	-0.007	-16 39 14.0	+12.35	+0.389	0.00
950	B.A.C. 7147	6½	20 32 26.33	+3.596	-0.0187		-26 31 37.6	+12.38	+0.413	
951	<i>ψ</i> Capricorni	4½	20 37 12.31	+3.570	-0.0185	-0.001	-25 48 22.0	+12.55	+0.403	-0.15
952	17 Capricorni	6	20 37 27.89	+3.495	-0.0161	+0.006	-22 3 19.0	+12.72	+0.393	0.00
953	B.A.C. 7197	6	20 39 36.09	+3.513	-0.0170	+0.001	-23 16 49.9	+12.68	+0.393	-0.18
954	B.A.C. 7202	6	20 39 53.23	+3.418	-0.0143		-18 44 51.2	+12.89	+0.382	
955	B.A.C. 7205	6	20 40 22.71	+3.573	-0.0191	-0.004	-26 19 52.1	+12.80	+0.397	-0.12
956	B.A.C. 7209	6½	20 40 49.52	+3.411	-0.0143	-0.003	-18 35 6.3	+12.86	+0.380	-0.09
957	B.A.C. 7221	6	20 42 25.44	+3.322	-0.0117	+0.015	-13 5 46.6	+12.96	+0.366	-0.09
958	B.A.C. 7237	6	20 44 12.85	+3.538	-0.0180	+0.011	-24 20 28.8	+13.06	+0.388	-0.11
959	B.A.C. 7242	6	20 44 52.94	+3.286	-0.0112	-0.001	-12 8 14.3	+13.20	+0.361	-0.02
960	19 Capricorni	6	20 46 19.05	+3.405	-0.0145	0.000	-18 29 13.4	+13.35	+0.372	+0.04

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
901	+0.5798	-8.1066	+8.4071	-8.8613	+0.8228	+9.9747	-8.9845	-9.2200	6639	1727
902	+0.5336	-7.7840	+8.3613	-8.8143	+0.8238	+9.9746	+9.2276	-8.9443	6643	1728
903	+0.5435	-7.8831	+8.3781	-8.8208	+0.8329	+9.9734	+9.0426	-9.0357	6658	
904	+0.5703	-8.0735	+8.4122	-8.8477	+0.8393	+9.9726	-8.6503	-9.1984	6666	
905	+0.5523	-7.9662	+8.3999	-8.8272	+0.8465	+9.9716	+8.7657	-9.1106	6671	
906	+0.5580	-8.0320	+8.4290	-8.8302	+0.8693	+9.9682	+8.3979	-9.1701	6699	
907	+0.5624	-8.0619	+8.4352	-8.8348	+0.8707	+9.9680	-6.0000	-9.1951	6704	1750
908	+0.5628	-8.0683	+8.4390	-8.8349	+0.8738	+9.9675	-7.4150	-9.2009	6706	1751
909	+0.5579	-8.0555	+8.4502	-8.8271	+0.8901	+9.9648	+8.4082	-9.1931	6727	
910	+0.5363	-7.8916	+8.4349	-8.8064	+0.8947	+9.9639	+9.1830	-9.0491	6733	1758
911	+0.5357	-7.8951	+8.4425	-8.8046	+0.9027	+9.9625	+9.1937	-9.0530	6742	1763
912	+0.5337	-7.8811	+8.4457	-8.8022	+0.9072	+9.9616	+9.2256	-9.0404	6746	
913	+0.5461	-8.0038	+8.4673	-8.8106	+0.9183	+9.9594	+8.9745	-9.1526	6760	1766
914	+0.5282	-7.8473	+8.4615	-8.7947	+0.9266	+9.9576	+9.3021	-9.0101	6776	
915	+0.5434	-8.0110	+8.4892	-8.8035	+0.9420	+9.9541	+9.0418	-9.1616	6803	1775
916	+0.5648	-8.1773	+8.5248	-8.8240	+0.9542	+9.9512	-8.1367	-9.3044	6823	1780
917	+0.5673	-8.1976	+8.5323	-8.8264	+0.9583	+9.9501	-8.4440	-9.3214	6832	1783
918	+0.5326	-7.9405	+8.5032	-8.7893	+0.9646	+9.9485	+9.2413	-9.0996	6840	1786
919	+0.5640	-8.1872	+8.5362	-8.8206	+0.9659	+9.9481	-7.9685	-9.3147	6842	1787
920	+0.5532	-8.1281	+8.5337	-8.8058	+0.9755	+9.9455	+8.7185	-9.2678	6864	
921	+0.5681	-8.2285	+8.5551	-8.8230	+0.9789	+9.9445	-8.5065	-9.3500	6870	1792
922	+0.5270	-7.8994	+8.5143	-8.7814	+0.9794	+9.9443	+9.3170	-9.0623	6871	
923	+0.5525	-8.1336	+8.5415	-8.8030	+0.9838	+9.9430	+8.7521	-9.2737	6878	
924	+0.5486	-8.1105	+8.5420	-8.7976	+0.9883	+9.9417	+8.8993	-9.2546	6889	
925	+0.5240	-7.8795	+8.5246	-8.7760	+0.9915	+9.9407	+9.3526	-9.0441	6894	
926	+0.5227	-7.8922	+8.5456	-8.7684	+1.0130	+9.9335	+9.3664	-9.0573	6935	
927	+0.5233	-7.9011	+8.5473	-8.7683	+1.0143	+9.9330	+9.3604	-9.0658	6938	
928	+0.5639	-8.2578	+8.5937	-8.8067	+1.0201	+9.9309	-7.9294	-9.3819	6947	
929	+0.5222	-7.9044	+8.5593	-8.7632	+1.0267	+9.9283	+9.3720	-9.0696	6956	
930	+0.5482	-8.1640	+8.5854	-8.7846	+1.0301	+9.9270	+8.9101	-9.3064	6971	
931	+0.5225	-7.9144	+8.5634	-8.7620	+1.0304	+9.9268	+9.3679	-9.0792	6972	1814
932	+0.5226	-7.9169	+8.5646	-8.7616	+1.0316	+9.9264	+9.3672	-9.0817	6974	1816
933	+0.5404	-8.1074	+8.5822	-8.7749	+1.0346	+9.9251	+9.1031	-9.2577	6981	1818
934	+0.5230	-7.9322	+8.5727	-8.7588	+1.0393	+9.9232	+9.3631	-9.0966	6991	1820
935	+0.5284	-7.9967	+8.5766	-8.7627	+1.0393	+9.9232	+9.2973	-9.1572	6992	1821
936	+0.5284	-7.9973	+8.5773	-8.7624	+1.0400	+9.9229	+9.2978	-9.1578	6995	1822
937	+0.5369	-8.1086	+8.6026	-8.7625	+1.0574	+9.9150	+9.1688	-9.2611	7031	1831
938	+0.5356	-8.1029	+8.6059	-8.7954	+1.0616	+9.9130	+9.1903	-9.2564	7042	1833
939	+0.5346	-8.0935	+8.6053	-8.7583	+1.0620	+9.9128	+9.2071	-9.2480	7043	
940	+0.5480	-8.2098	+8.6200	-8.7719	+1.0627	+9.9124	+8.9138	-9.3503	7049	
941	+0.5375	-8.1248	+8.6105	-8.7601	+1.0643	+9.9116	+9.1569	-9.2764	7054	
942	+0.5280	-8.0342	+8.6059	-8.7498	+1.0680	+9.9097	+9.3017	-9.1941	7063	
943	+0.5545	-8.2704	+8.6373	-8.7763	+1.0713	+9.9081	+8.6454	-9.4022	7077	
944	+0.5313	-8.0873	+8.6204	-8.7471	+1.0793	+9.9037	+9.2558	-9.2439	7097	1837
945	+0.5540	-8.2866	+8.6506	-8.7699	+1.0840	+9.9010	+8.6721	-9.4177	7108	
946	+0.5275	-8.0535	+8.6222	-8.7414	+1.0840	+9.9010	+9.3075	-9.2131	7110	
947	+0.5268	-8.0529	+8.6266	-8.7381	+1.0888	+9.8982	+9.3162	-9.2129	7127	1847
948	+0.5349	-8.1406	+8.6355	-8.7446	+1.0904	+9.8973	+9.2000	-9.2933	7134	1848
949	+0.5296	-8.0894	+8.6321	-8.7389	+1.0918	+9.8964	+9.2788	-9.2469	7145	
950	+0.5558	-8.3125	+8.6626	-8.7681	+1.0926	+9.8959	+8.5682	-9.4403	7147	1851
951	+0.5528	-8.3100	+8.6712	-8.7582	+1.1039	+9.8886	+8.7308	-9.4405	7177	1857
952	+0.5428	-8.2338	+8.6592	-8.7452	+1.1045	+9.8882	+9.0488	-9.3769	7179	
953	+0.5455	-8.2648	+8.6680	-8.7457	+1.1094	+9.8849	+8.9796	-9.4040	7197	
954	+0.5338	-8.1624	+8.6554	-8.7320	+1.1100	+9.8844	+9.2164	-9.3149	7202	
955	+0.5535	-8.3274	+8.6804	-8.7551	+1.1111	+9.8837	+8.6955	-9.4559	7205	
956	+0.5333	-8.1605	+8.6571	-8.7301	+1.1122	+9.8829	+9.2251	-9.3133	7209	
957	+0.5194	-8.0041	+8.6489	-8.7157	+1.1157	+9.8804	+9.3992	-9.1687	7221	1867
958	+0.5474	-8.2968	+8.6818	-8.7418	+1.1196	+9.8774	+8.9274	-9.4325	7237	
959	+0.5168	-7.9753	+8.6526	-8.7101	+1.1211	+9.8763	+9.4252	-9.1416	7242	
960	+0.5321	-8.1700	+8.6689	-8.7208	+1.1242	+9.8730	+9.2416	-9.3231	7249	

No.	Name.	Mag.	Mean Right Ascension 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.	Annual Variation.	Secular Variation.	Proper Motion.
961	7 Aquarii	6	^h 20 48 47.35	^s +3.251	^s -0.0105	^s +0.001	^o -10 16 11.6	+13.46	+0.351	-0.01
962	20 Capricorni	6	20 51 4.49	+3.426	-0.0153	+0.006	-19 36 50.7	+13.57	+0.366	-0.05
963	8 Aquarii	6	20 51 39.96	+3.307	-0.0122	-0.001	-13 37 48.0	+13.73	+0.353	+0.07
964	21 Capricorni	6	20 52 24.89	+3.390	-0.0146	0.000	-18 6 42.6	+13.73	+0.361	+0.03
965	9 Aquarii	6	20 52 51.93	+3.318	-0.0125	+0.002	-14 6 44.2	+13.79	+0.352	+0.06
966	γ Capricorni	5½	20 55 51.59	+3.430	-0.0160	+0.001	-20 26 40.7	+13.90	+0.360	-0.02
967	δ Capricorni	4	20 57 30.54	+3.387	-0.0146	+0.009	-17 49 30.0	+14.00	+0.352	-0.03
968	γ Capricorni	6	20 59 57.60	+3.453	-0.0170	+0.004	-21 47 33.5	+14.20	+0.356	+0.02
969	27 Capricorni	6	21 0 58.07	+3.447	-0.0167	+0.012	-21 9 16.7	+14.15	+0.353	+0.09
970	ν Aquarii	4½	21 1 25.03	+3.276	-0.0116	+0.006	-11 58 32.8	+14.28	+0.335	+0.01
971	φ Capricorni	6	21 7 5.28	+3.428	-0.0170	+0.001	-21 16 12.4	+14.68	+0.342	+0.07
972	29 Capricorni	6	21 7 26.34	+3.334	-0.0137	+0.005	-15 47 29.3	+14.66	+0.332	+0.03
973	30 Capricorni	6	21 9 32.20	+3.377	-0.0153	+0.002	-18 36 32.0	+14.83	+0.333	+0.07
974	31 Capricorni	6½	21 9 51.71	+3.371	-0.0151	+0.005	-18 5 12.9	+14.86	+0.332	+0.08
975	ι Capricorni	4½	21 13 53.46	+3.357	-0.0148	+0.007	-17 28 10.2	+15.07	+0.324	+0.06
976	B.A.C. 7413	6	21 14 24.21	+3.461	-0.0184	+0.009	-23 18 19.2	+15.05	+0.333	+0.01
977	17 Aquarii	6	21 14 53.69	+3.292	-0.0107	-0.003	-9 57 23.5	+15.02	+0.310	-0.05
978	33 Capricorni	6	21 15 38.76	+3.416	-0.0173	-0.001	-21 29 7.2	+15.05	+0.328	-0.07
979	18 Aquarii	6	21 15 59.53	+3.291	-0.0126	+0.009	-13 31 3.1	+15.20	+0.314	+0.06
980	19 Aquarii	6	21 17 9.12	+3.231	-0.0110	+0.001	-10 23 3.6	+15.03	+0.307	-0.17
981	ζ Capricorni	4	21 18 5.65	+3.443	-0.0184	+0.003	-23 3 27.7	+15.31	+0.326	+0.05
982	35 Capricorni	6	21 18 44.25	+3.419	-0.0176	+0.002	-21 50 28.7	+15.30	+0.322	+0.01
983	η Capricorni	5½	21 20 9.89	+3.439	-0.0181	+0.013	-22 27 22.2	+15.41	+0.321	+0.04
984	B.A.C. 7487	6½	21 26 5.62	+3.291	-0.0130	+0.011	-14 8 47.7	+15.73	+0.298	+0.03
985	37 Capricorni	6	21 26 25.33	+3.387	-0.0170	+0.002	-20 44 59.6	+15.76	+0.307	+0.04
986	ε Capricorni	4½	21 28 40.45	+3.375	-0.0166	+0.004	-20 8 6.5	+15.86	+0.302	+0.02
987	ξ Aquarii	4½	21 29 45.78	+3.202	-0.0101	+0.009	-8 31 26.7	+15.89	+0.284	-0.01
988	γ Capricorni	3½	21 31 46.39	+3.341	-0.0149	+0.019	-17 20 13.2	+16.02	+0.292	+0.01
989	42 Capricorni	6	21 33 23.23	+3.273	-0.0134	-0.007	-14 42 47.3	+15.83	+0.286	-0.26
990	α Capricorni	5	21 34 16.48	+3.264	-0.0163	+0.011	-19 32 49.8	+16.16	+0.290	+0.02
991	B.A.C. 7550	6	21 34 49.53	+3.359	-0.0169	-0.004	-20 18 14.5	+16.01	+0.290	-0.15
992	44 Capricorni	6	21 34 53.11	+3.287	-0.0136	+0.003	-15 4 59.8	+16.20	+0.283	+0.03
993	45 Capricorni	6	21 35 49.30	+3.287	-0.0138	-0.001	-15 26 7.8	+16.04	+0.282	-0.18
994	c ¹ Capricorni	6	21 37 0.25	+3.208	-0.0107	+0.003	-9 46 9.7	+16.29	+0.273	+0.01
995	c ² Capricorni	6½	21 38 15.89	+3.209	-0.0108	+0.002	-9 57 56.3	+16.34	+0.271	0.00
996	λ Capricorni	5½	21 38 27.34	+3.240	-0.0119	+0.004	-12 3 18.5	+16.37	+0.273	+0.02
997	δ Capricorni	3	21 38 45.30	+3.323	-0.0146	+0.019	-16 48 18.6	+16.12	+0.279	-0.25
998	μ Capricorni	5	21 45 6.74	+3.285	-0.0131	+0.026	-14 15 18.1	+16.72	+0.264	+0.04
999	B.A.C. 7620	6	21 45 35.00	+3.215	-0.0113		-11 0 52.4	+16.70	+0.260	
1000	B.A.C. 7650	6½	21 50 21.49	+3.150	-0.0088	+0.002	-6 8 0.0	+16.80	+0.246	-0.13
1001	29 Aquarii	6	21 54 13.64	+3.205	-0.0151	+0.002	-17 41 3.2	+17.19	+0.251	+0.08
1002	30 Aquarii	5½	21 55 22.88	+3.167	-0.0091	+0.008	-7 14 42.0	+17.18	+0.238	+0.02
1003	ι Aquarii	4	21 58 19.76	+3.252	-0.0132	+0.005	-14 35 42.3	+17.25	+0.240	-0.05
1004	35 Aquarii	6	22 0 45.04	+3.304	-0.0160	+0.001	-19 15 3.4	+17.42	+0.240	+0.02
1005	e ¹ Aquarii	6	22 2 31.38	+3.208	-0.0114	+0.003	-11 33 23.4	+17.53	+0.229	+0.05
1006	e ² Aquarii	6	22 2 36.21	+3.222	-0.0117	+0.008	-12 17 59.6	+17.52	+0.230	+0.04
1007	B.A.C. 7726	6½	22 2 44.25	+3.129	-0.0079	+0.001	-5 0 16.2	+17.28	+0.223	-0.21
1008	42 Aquarii	6	22 8 45.73	+3.221	-0.0124	0.000	-13 34 35.1	+17.78	+0.219	+0.04
1009	δ Aquarii	4½	22 8 54.84	+3.175	-0.0096	+0.011	-8 31 41.4	+17.75	+0.215	0.00
1010	B.A.C. 7774	6	22 8 57.22	+3.175	-0.0102	-0.003	-9 47 9.1	+17.73	+0.216	-0.02
1011	44 Aquarii	6	22 9 16.49	+3.137	-0.0083	0.000	-6 8 3.2	+17.81	+0.213	+0.05
1012	45 Aquarii	6	22 10 57.56	+3.233	-0.0126	+0.009	-14 3 10.4	+17.88	+0.215	+0.05
1013	g Aquarii	5½	22 12 18.17	+3.165	-0.0095	+0.003	-8 34 19.6	+17.93	+0.209	+0.05
1014	51 Aquarii	6	22 16 17.89	+3.130	-0.0079	+0.002	-5 35 38.8	+18.02	+0.199	-0.02
1015	50 Aquarii	6	22 16 24.63	+3.223	-0.0126	+0.004	-14 17 15.6	+18.08	+0.205	+0.04
1016	B.A.C. 7818	6½	22 18 25.06	+3.271	-0.0145	+0.020	-17 30 7.2	+18.17	+0.203	+0.05
1017	53 Aquarii	6	22 18 25.47	+3.267	-0.0145	+0.016	-17 30 10.0	+18.16	+0.203	+0.04
1018	B.A.C. 7835	6½	22 21 59.98	+3.217	-0.0121	+0.011	-13 40 49.7	+18.25	+0.194	
1019	56 Aquarii	6	22 22 14.68	+3.227	-0.0131	+0.004	-15 21 2.6	+18.25	+0.194	-0.01
1020	σ Aquarii	4½	22 22 42.21	+3.184	-0.0108	+0.002	-11 26 37.3	+18.36	+0.191	+0.08

ZODIACAL STARS.

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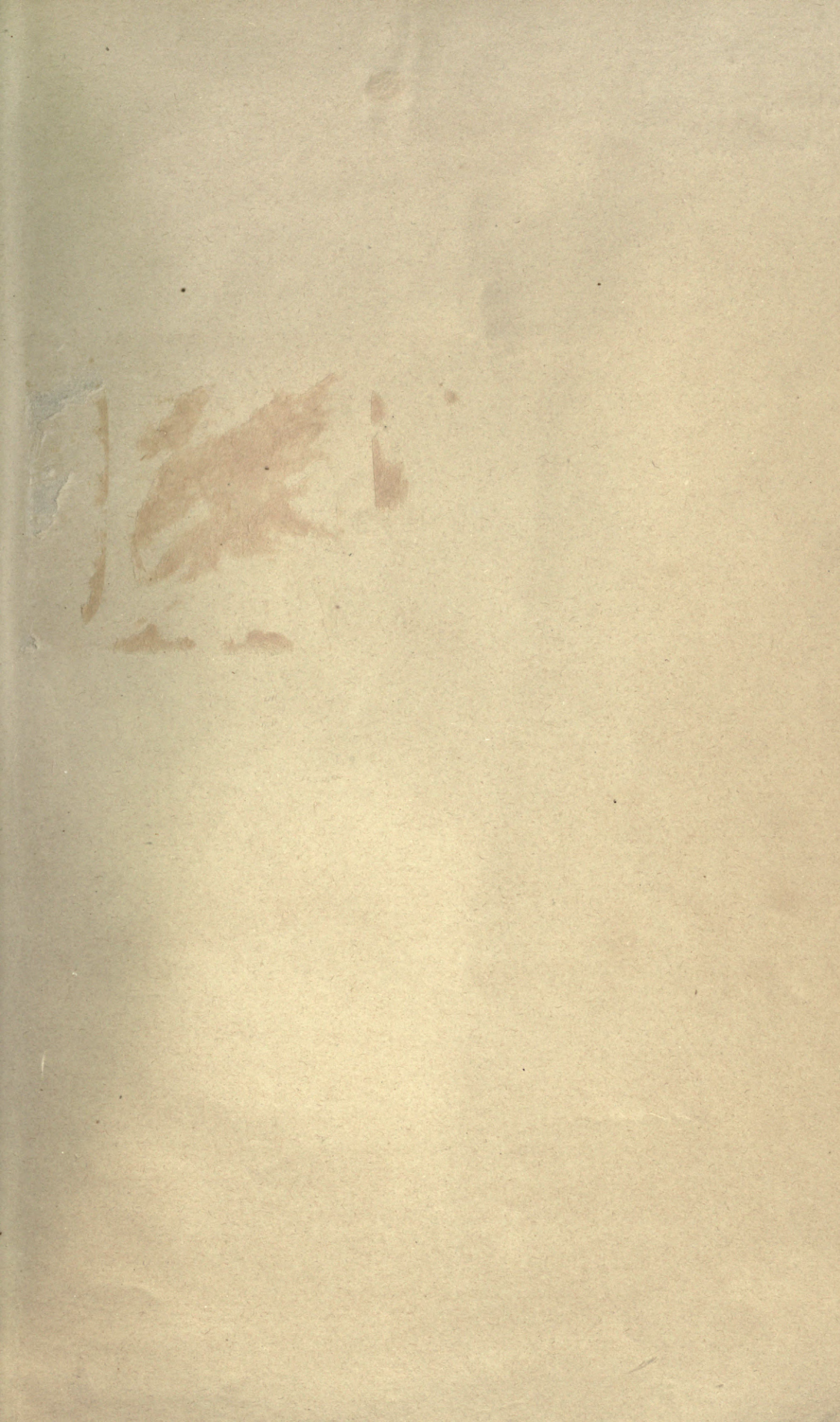
No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
961	+0.5119	-7.9092	+8.6581	-8.7007	+1.1294	+9.8697	+9.4697	-9.0783	7261	
962	+0.5341	-8.2077	+8.6818	-8.7156	+1.1341	+9.8658	+9.2106	-9.3578	7270	
963	+0.5196	-8.0417	+8.6694	-8.7010	+1.1353	+9.8647	+9.3964	-9.2054	7279	
964	+0.5302	-8.1732	+8.6806	-8.7094	+1.1368	+9.8634	+9.2683	-9.3272	7282	
965	+0.5206	-8.0598	+8.6728	-8.6998	+1.1378	+9.8626	+9.3860	-9.2226	7288	
966	+0.5352	-8.2369	+8.6937	-8.7094	+1.1437	+9.8572	+9.1909	-9.3847	7305	1881
967	+0.5237	-8.1759	+8.6900	-8.6994	+1.1469	+9.8542	+9.2885	-9.3306	7322	1882
968	+0.5376	-8.2752	+8.7055	-8.7057	+1.1516	+9.8496	+9.1471	-9.4191	7335	1885
969	+0.5359	-8.2629	+8.7055	-8.7019	+1.1535	+9.8476	+9.1778	-9.4087	7343	
970	+0.5145	-8.0026	+8.6856	-8.6803	+1.1544	+9.8468	+9.4451	-9.1692	7344	1888
971	+0.5349	-8.2767	+8.7171	-8.6902	+1.1647	+9.8356	+9.1929	-9.4221	7371	
972	+0.5223	-8.1386	+8.7038	-8.6755	+1.1654	+9.8349	+9.3646	-9.2979	7374	1892
973	+0.5233	-8.2180	+8.7141	-8.6779	+1.1690	+9.8306	+9.2905	-9.3708	7390	
974	+0.5271	-8.2053	+8.7133	-8.6759	+1.1696	+9.8300	+9.3066	-9.3594	7391	
975	+0.5250	-8.1961	+8.7187	-8.6659	+1.1765	+9.8215	+9.3322	-9.3517	7407	1900
976	+0.5380	-8.3333	+8.7360	-8.6813	+1.1774	+9.8204	+9.1367	-9.4724	7413	
977	+0.5086	-7.9443	+8.7065	-8.6498	+1.1782	+9.8193	+9.4960	-9.1138	7415	
978	+0.5336	-8.2962	+8.7324	-8.6729	+1.1794	+9.8177	+9.2125	-9.4410	7425	
979	+0.5161	-8.0826	+8.7139	-8.6531	+1.1800	+9.8170	+9.4289	-9.2465	7427	
980	+0.5093	-7.9666	+8.7108	-8.6455	+1.1819	+9.8144	+9.4904	-9.1356	7435	
981	+0.5366	-8.3342	+8.7413	-8.6724	+1.1834	+9.8123	+9.1617	-9.4741	7445	1902
982	+0.5337	-8.3091	+8.7385	-8.6672	+1.1845	+9.8109	+9.2098	-9.4528	7447	
983	+0.5347	-8.3247	+8.7427	-8.6659	+1.1867	+9.8077	+9.1236	-9.4666	7460	
984	+0.5159	-8.1191	+8.7310	-8.6312	+1.1959	+9.7939	+9.4293	-9.2818	7487	
985	+0.5296	-8.2966	+8.7472	-8.6462	+1.1964	+9.7931	+9.2691	-9.4435	7490	1913
986	+0.5278	-8.2857	+8.7488	-8.6390	+1.1998	+9.7877	+9.2929	-9.4344	7506	1922
987	+0.5042	-7.8988	+8.7279	-8.6138	+1.2013	+9.7850	+9.5299	-9.0701	7514	1923
988	+0.5214	-8.2203	+8.7461	-8.6241	+1.2042	+9.7800	+9.3705	-9.3762	7525	1926
989	+0.5159	-8.1475	+8.7427	-8.6143	+1.2065	+9.7760	+9.4283	-9.3091	7537	
990	+0.5254	-8.2798	+8.7553	-8.6234	+1.2078	+9.7737	+9.3228	-9.4301	7543	1931
991	+0.5268	-8.2984	+8.7581	-8.6240	+1.2086	+9.7723	+9.3045	-9.4467	7550	
992	+0.5164	-8.1609	+8.7456	-8.6113	+1.2086	+9.7721	+9.4233	-9.3218	7551	
993	+0.5169	-8.1727	+8.7476	-8.6095	+1.2099	+9.7697	+9.4178	-9.3328	7556	
994	+0.5058	-7.9692	+8.7396	-8.5963	+1.2116	+9.7666	+9.5167	-9.1390	7563	
995	+0.5061	-7.9797	+8.7416	-8.5938	+1.2133	+9.7633	+9.5147	-9.1492	7573	
996	+0.5100	-8.0647	+8.7449	-8.5963	+1.2135	+9.7627	+9.4822	-9.2311	7577	1941
997	+0.5190	-8.2156	+8.7546	-8.6048	+1.2139	+9.7619	+9.3950	-9.3728	7580	1942
998	+0.5131	-8.1488	+8.7575	-8.5819	+1.2222	+9.7444	+9.4532	-9.3113	7618	1952
999	+0.5071	-8.0337	+8.7526	-8.5751	+1.2228	+9.7431	+9.5056	-9.2017	7620	
1000	+0.4980	-7.7816	+8.7529	-8.5556	+1.2287	+9.7292	+9.5731	-8.9552	7650	
1001	+0.5176	-8.2585	+8.7760	-8.5623	+1.2333	+9.7174	+9.4065	-9.4136	7666	
1002	+0.4995	-7.8605	+8.7598	-8.5412	+1.2346	+9.7138	+9.5627	-9.0331	7670	1964
1003	+0.5115	-8.1752	+8.7739	-8.5426	+1.2379	+9.7044	+9.4660	-9.3371	7691	1969
1004	+0.5189	-8.3054	+8.7873	-8.5454	+1.2406	+9.6965	+9.3906	-9.4565	7711	1973
1005	+0.5058	-8.0748	+8.7731	-8.5234	+1.2425	+9.6906	+9.5144	-9.2420	7719	
1006	+0.5070	-8.1028	+8.7743	-8.5243	+1.2426	+9.6903	+9.5046	-9.2688	7722	
1007	+0.4953	-7.7967	+8.7661	-8.5154	+1.2427	+9.6899	+9.5906	-8.8812	7726	
1008	+0.5080	-8.1535	+8.7829	-8.5051	+1.2489	+9.6689	+9.4946	-9.3173	7771	
1009	+0.5002	-7.9467	+8.7756	-8.4971	+1.2491	+9.6683	+9.5564	-9.1180	7773	1993
1010	+0.5022	-8.0075	+8.7772	-8.4985	+1.2491	+9.6682	+9.5421	-9.1773	7774	
1011	+0.4966	-7.8024	+8.7736	-8.4934	+1.2494	+9.6670	+9.5820	-8.9760	7776	
1012	+0.5084	-8.1713	+8.7860	-8.4980	+1.2511	+9.6609	+9.4911	-9.3342	7781	
1013	+0.5000	-7.9523	+8.7790	-8.4847	+1.2524	+9.6559	+9.5582	-9.1235	7784	1997
1014	+0.4953	-7.7689	+8.7799	-8.4667	+1.2562	+9.6407	+9.5903	-8.9429	7805	2003
1015	+0.5078	-8.1839	+8.7916	-8.4778	+1.2563	+9.6403	+9.4951	-9.3464	7806	
1016	+0.5121	-8.2785	+8.8004	-8.4768	+1.2581	+9.6323	+9.4547	-9.4340	7818	2007
1017	+0.5121	-8.2786	+8.8004	-8.4768	+1.2581	+9.6323	+9.4547	-9.4341	7819	2008
1018	+0.5059	-8.1693	+8.7954	-8.4541	+1.2612	+9.6177	+9.5100	-9.3329	7835	
1019	+0.5082	-8.2217	+8.7989	-8.4564	+1.2615	+9.6167	+9.4900	-9.3820	7836	
1020	+0.5027	-8.0898	+8.7923	-8.4474	+1.2619	+9.6148	+9.5361	-9.2572	7840	2018

No.	Name.	Mag.	Mean Right Ascension 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.	Mean Declination 1850.0.			Annual Variation.	Secular Variation.	Proper Motion.
			h	m	s				°	'	"			
1021	58 Aquarii	6	22	23	43.99	+3.189	-0.0108	+0.006	-11	40	18.4	+18.32	+0.189	+0.01
1022	60 Aquarii	6½	22	26	18.99	+3.097	-0.0058	+0.005	-2	20	38.7	+18.42	+0.179	+0.02
1023	61 Aquarii	6½	22	27	43.89	+3.242	-0.0148	-0.001	-18	13	56.9	+18.44	+0.185	-0.01
1024	z Aquarii	5	22	29	59.08	+3.114	-0.0070	-0.001	-5	0	0.6	+18.44	+0.174	-0.09
1025	64 Aquarii	6½	22	31	22.33	+3.168	-0.0101	+0.001	-10	48	22.4	+18.59	+0.174	+0.02
1026	67 Aquarii	6	22	35	24.07	+3.136	-0.0084	0.000	-7	44	45.2	+18.75	+0.165	+0.05
1027	r ¹ Aquarii	6	22	39	44.65	+3.194	-0.0122	+0.002	-14	50	44.7	+18.85	+0.160	+0.01
1028	70 Aquarii	6	22	40	36.43	+3.165	-0.0101	+0.006	-11	20	45.7	+18.90	+0.157	+0.04
1029	r ² Aquarii	4	22	41	38.70	+3.187	-0.0119	+0.001	-14	22	58.2	+18.90	+0.156	+0.01
1030	λ Aquarii	4	22	44	47.09	+3.133	-0.0083	-0.001	-8	22	34.8	+19.05	+0.147	+0.06
1031	74 Aquarii	6	22	45	34.67	+3.169	-0.0105	+0.004	-12	24	43.7	+19.04	+0.147	+0.03
1032	78 Aquarii	6	22	46	45.46	+3.130	-0.0081	0.000	-7	59	58.0	+19.66	+0.143	+0.02
1033	1 Piscium	6	22	47	19.00	+3.076	-0.0038	+0.007	+0	16	0.4	+19.03	+0.140	-0.03
1034	2 Piscium	6½	22	51	46.27	+3.078	-0.0035	+0.008	+0	9	42.8	+19.05	+0.131	-0.12
1035	3 Piscium	6	22	52	56.28	+3.080	-0.0039	+0.005	-0	37	5.7	+19.22	+0.129	+0.02
1036	81 Aquarii	6	22	53	35.85	+3.125	-0.0076	+0.002	-7	51	50.8	+19.28	+0.130	+0.06
1037	82 Aquarii	6	22	54	45.15	+3.120	-0.0074	+0.001	-7	22	38.1	+19.26	+0.128	+0.01
1038	h ¹ Aquarii	6	22	57	20.49	+3.138	-0.0079	+0.013	-8	30	5.6	+19.37	+0.123	+0.06
1039	h ² Aquarii	7	22	57	30.43	+3.133	-0.0078	+0.008	-8	33	42.6	+19.38	+0.123	+0.07
1040	h ³ Aquarii	7	22	58	4.21	+3.130	-0.0079	+0.004	-8	44	40.6	+19.37	+0.122	+0.04
1041	h ⁴ Aquarii	7½	22	59	24.11	+3.133	-0.0078	+0.010	-8	30	3.0	+19.40	+0.119	+0.04
1042	A Piscium	5½	23	0	59.97	+3.074	-0.0025	+0.011	+1	18	46.7	+19.54	+0.114	+0.15
1043	q Aquarii	4½	23	6	33.14	+3.114	-0.0065	+0.006	+6	51	24.3	+19.35	+0.105	-0.16
1044	B.A.C. 8094	4	23	7	50.77	+3.093	-0.0051		-4	18	42.3	+19.54	+0.102	
1045	ψ ¹ Aquarii	4½	23	8	1.59	+3.151	-0.0081	+0.028	-9	54	15.0	+19.54	+0.102	0.00
1046	χ Aquarii	5½	23	9	4.33	+3.115	-0.0073	0.000	-8	32	34.7	+19.60	+0.100	+0.04
1047	γ Piscium	4	23	9	23.35	+3.110	-0.0016	+0.052	+2	27	48.9	+19.61	+0.098	+0.04
1048	ψ ² Aquarii	4½	23	10	6.54	+3.128	-0.0080	+0.006	-10	0	2.8	+19.56	+0.098	-0.02
1049	ψ ³ Aquarii	5	23	11	9.28	+3.128	-0.0083	+0.005	-10	25	47.8	+19.62	+0.096	+0.02
1050	96 Aquarii	5½	23	11	37.19	+3.116	-0.0058	+0.016	-5	56	35.4	+19.64	+0.095	+0.03
1051	B.A.C. 8134	6½	23	13	37.58	+3.096	-0.0054		-5	29	33.0	+19.65	+0.091	
1052	B.A.C. 8152	6	23	15	50.03	+3.066	-0.0027	-0.007	-0	31	56.6	+19.60	+0.086	-0.08
1053	z Piscium	4½	23	19	14.61	+3.079	-0.0021	+0.010	+0	26	6.2	+19.64	+0.079	-0.10
1054	9 Piscium	6	23	19	33.74	+3.072	-0.0020	+0.003	+0	17	57.6	+19.69	+0.079	-0.05
1055	11 Piscium	6½	23	21	45.01	+3.081	-0.0034	0.000	-2	36	56.9	+19.79	+0.075	+0.01
1056	14 Piscium	6½	23	26	26.21	+3.085	-0.0030	+0.007	-2	4	31.4	+19.85	+0.066	+0.01
1057	B.A.C. 8214	6½	23	27	47.62	+3.088	-0.0061	-0.010	-8	17	38.1	+19.82	+0.063	-0.04
1058	15 Piscium	6½	23	27	48.60	+3.068	-0.0016	-0.001	+0	29	3.4	+19.81	+0.063	-0.05
1059	16 Piscium	6	23	28	44.14	+3.064	-0.0011	-0.003	+1	16	13.6	+19.97	+0.061	+0.10
1060	λ Piscium	5	23	34	23.56	+3.064	-0.0009	-0.004	+0	57	17.5	+19.80	+0.050	-0.13
1061	19 Piscium	6	23	38	43.87	+3.067	+0.0002	+0.002	+2	39	20.3	+19.99	+0.041	+0.02
1062	20 Piscium	6	23	40	13.75	+3.085	-0.0030	+0.007	-3	35	43.0	+20.00	+0.039	+0.02
1063	B.A.C. 8274	6½	23	40	49.63	+3.100	-0.0049	-0.015	-7	12	46.6	+19.91	+0.038	-0.08
1064	B.A.C. 8276	6½	23	41	8.63	+3.058	-0.0004	-0.010	+1	22	59.5	+19.97	+0.037	-0.02
1065	21 Piscium	6	23	41	46.76	+3.073	-0.0009	+0.003	+0	14	32.0	+19.91	+0.036	-0.08
1066	22 Piscium	6	23	44	17.30	+3.071	+0.0002	+0.004	+2	5	50.8	+20.03	+0.031	+0.02
1067	24 Piscium	6½	23	45	13.32	+3.086	-0.0029	+0.009	-3	59	14.6	+20.03	+0.029	+0.02
1068	25 Piscium	6½	23	45	23.81	+3.070	-0.0001	+0.001	+1	15	26.3	+20.03	+0.029	+0.02
1069	B.A.C. 8311	6½	23	47	5.85	+3.058	-0.0011	-0.014	+0	43	30.2	+19.96	+0.025	-0.06
1070	26 Piscium	6	23	47	27.56	+3.068	+0.0025	+0.005	+6	14	15.5	+20.05	+0.024	+0.02
1071	27 Piscium	5½	23	50	59.55	+3.072	-0.0028	-0.003	-4	23	18.1	+19.92	+0.018	-0.12
1072	ω Piscium	4	23	51	36.63	+3.080	+0.0026	+0.015	+6	1	58.1	+19.96	+0.016	-0.08
1073	29 Piscium	5½	23	54	8.17	+3.075	-0.0023	+0.002	-3	51	44.5	+20.07	+0.012	+0.02
1074	30 Piscium	5	23	54	15.96	+3.082	-0.0039	+0.007	-6	50	52.0	+20.03	+0.011	-0.02
1075	c ¹ Piscium	6	23	54	43.37	+3.065	+0.0040	-0.001	+8	7	18.7	+20.04	+0.010	-0.01
1076	c ² Piscium	6	23	54	49.95	+3.065	+0.0037	-0.002	+7	39	9.2	+20.02	+0.010	-0.03
1077	B.A.C. 8365	6½	23	57	22.47	+3.076	-0.0008	+0.005	-1	20	9.7	+19.97	+0.005	-0.08
1078	33 Piscium	5	23	57	39.38	+3.076	-0.0035	+0.004	-6	32	48.8	+20.10	+0.005	+0.05

ZODIACAL STARS.

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No.	LOGARITHMS OF								No. B.A.C.	No. T.Y.C.
	a	b	c	d	a'	b'	c'	d'		
1021	+0.5029	-8.0995	+8.7935	-8.4434	+1.2627	+9.6105	+9.5347	-9.2665	7849	
1022	+0.4903	-7.3987	+8.7869	-8.4236	+1.2649	+9.5993	+9.6205	-8.5744	7863	
1023	+0.5110	-8.3055	+8.8101	-8.4394	+1.2660	+9.5931	+9.4618	-9.4592	7870	
1024	+0.4935	-7.7315	+8.7912	-8.4085	+1.2678	+9.5829	+9.6009	-8.9059	7884	2027
1025	+0.5006	-8.0713	+8.7984	-8.4082	+1.2689	+9.5765	+9.5510	-9.2397	7890	
1026	+0.4964	-7.9272	+8.7976	-8.3852	+1.2719	+9.5573	+9.5814	-9.0993	7921	
1027	+0.5041	-8.2201	+8.8115	-8.3740	+1.2750	+9.5354	+9.5206	-9.3814	7949	
1028	+0.4999	-8.0998	+8.8059	-8.3634	+1.2756	+9.5309	+9.5547	-9.2673	7952	
1029	+0.5032	-8.2070	+8.8119	-8.3631	+1.2763	+9.5254	+9.5278	-9.3693	7954	2046
1030	+0.4961	-7.9681	+8.8048	-8.3369	+1.2784	+9.5083	+9.5824	-9.1396	7970	2054
1031	+0.5003	-8.1432	+8.8109	-8.3380	+1.2789	+9.5039	+9.5505	-9.3090	7974	
1032	+0.4955	-7.9491	+8.8056	-8.3253	+1.2797	+9.4972	+9.5866	-9.1210	7981	
1033	+0.4870	+6.4682	+8.8017	-8.3179	+1.2800	+9.4939	+9.6389	+7.6443	7985	2058
1034	+0.4871	+6.2556	+8.8044	-8.2913	+1.2827	+9.4674	+9.6383	+7.4317	8005	
1035	+0.4878	-6.8384	+8.8051	-8.2840	+1.2834	+9.4601	+9.6343	-8.0144	8012	2067
1036	+0.4946	-7.9457	+8.8095	-8.2839	+1.2837	+9.4559	+9.5920	-9.1177	8016	
1037	+0.4941	-7.9183	+8.8097	-8.2760	+1.2844	+9.4485	+9.5958	-9.0907	8020	
1038	+0.4948	-7.9821	+8.8123	-8.2601	+1.2858	+9.4314	+9.5903	-9.1534	8035	
1039	+0.4948	-7.9853	+8.8124	-8.2590	+1.2859	+9.4303	+9.5900	-9.1565	8038	
1040	+0.4949	-7.9949	+8.8129	-8.2554	+1.2862	+9.4264	+9.5892	-9.1659	8041	
1041	+0.4945	-7.9831	+8.8134	-8.2459	+1.2869	+9.4172	+9.5917	-9.1544	8050	
1042	+0.4861	+7.1696	+8.8095	-8.2299	+1.2877	+9.4059	+9.6432	+8.3456	8060	
1043	+0.4925	-7.8921	+8.8151	-8.1908	+1.2903	+9.3638	+9.6056	-9.0650	8085	2086
1044	+0.4904	-7.6899	+8.8138	-8.1785	+1.2909	+9.3533	+9.6188	-8.8648	8094	
1045	+0.4946	-8.0547	+8.8192	-8.1823	+1.2910	+9.3518	+9.5897	-9.2243	8095	2087
1046	+0.4935	-7.9808	+8.8180	-8.1720	+1.2914	+9.3432	+9.5981	-9.1611	8102	
1047	+0.4854	+7.4471	+8.8136	-8.1648	+1.2915	+9.3405	+9.6464	+8.6228	8105	2088
1048	+0.4944	-8.0599	+8.8202	-8.1650	+1.2919	+9.3344	+9.5910	-9.2294	8109	2089
1049	+0.4945	-8.0790	+8.8212	-8.1565	+1.2923	+9.3253	+9.5894	-9.2478	8116	2092
1050	+0.4913	-7.8316	+8.8165	-8.1475	+1.2925	+9.3212	+9.6127	-9.0053	8119	2093
1051	+0.4909	-7.7979	+8.8170	-8.1290	+1.2933	+9.3031	+9.6157	-8.9720	8124	
1052	+0.4876	-6.7840	+8.8158	-8.1062	+1.2941	+9.2822	+9.6356	-7.9601	8152	
1053	+0.4870	-6.6974	+8.8170	-8.0716	+1.2953	+9.2477	+9.6388	+7.8735	8169	2100
1054	+0.4871	+6.5337	+8.8171	-8.0683	+1.2954	+9.2444	+9.6384	+7.7098	8170	2101
1055	+0.4887	-7.4776	+8.8183	-8.0448	+1.2961	+9.2204	+9.6293	-8.6533	8183	
1056	+0.4882	-7.3784	+8.8195	-7.9883	+1.2976	+9.1641	+9.6319	-8.5542	8205	
1057	+0.4911	-7.9833	+8.8242	-7.9748	+1.2979	+9.1463	+9.6119	-9.1548	8214	
1058	+0.4870	-6.7465	+8.8196	-7.9700	+1.2979	+9.1461	+9.6386	+7.9226	8215	
1059	+0.4867	+7.1660	+8.8200	-7.9576	+1.2982	+9.1335	+9.6404	+8.3420	8218	2114
1060	+0.4869	+7.0434	+8.8213	-7.8712	+1.2995	+9.0472	+9.6393	+8.2194	8243	2122
1061	+0.4864	+7.4884	+8.8225	-7.7913	+1.3004	+8.9669	+9.6413	+8.6640	8262	
1062	+0.4882	-7.6204	+8.8232	-7.7600	+1.3006	+8.9353	+9.6311	-8.7957	8271	2127
1063	+0.4892	-7.9247	+8.8258	-7.7494	+1.3007	+8.9220	+9.6233	-9.0973	8274	
1064	+0.4869	+7.2053	+8.8226	-7.7388	+1.3008	+8.9148	+9.6393	+8.3813	8276	
1065	+0.4872	+6.4486	+8.8225	-7.7239	+1.3009	+8.8999	+9.6378	+7.6247	8281	
1066	+0.4867	+7.3867	+8.8232	-7.6599	+1.3012	+8.8357	+9.6397	+8.5625	8295	
1067	+0.4881	-7.6663	+8.8241	-7.6341	+1.3013	+8.8091	+9.6319	-8.8413	8302	
1068	+0.4870	+7.1644	+8.8231	-7.6230	+1.3013	+8.8040	+9.6388	+8.3404	8303	
1069	+0.4874	-6.9255	+8.8233	-7.5742	+1.3015	+8.7503	+9.6367	-8.1015	8311	
1070	+0.4861	+7.8619	+8.8258	-7.5644	+1.3016	+8.7379	+9.6408	+9.0354	8312	
1071	+0.4878	-7.7086	+8.8249	-7.4194	+1.3019	+8.5942	+9.6332	-8.8834	8328	2136
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