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SPHERICAL BASIS

OF

ASTROLOGY.

TABLE OF HOUSES

FOR

LATITUDES 22° TO 60°





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THE  
SPHERICAL BASIS OF ASTROLOGY

BEING

A COMPREHENSIVE

TABLE OF HOUSES

FOR

LATITUDES 22° TO 60°

WITH

*RATIONAL VIEWS AND SUGGESTIONS, EXPLANATION AND INSTRUCTIONS  
CORRECTION OF WRONG METHODS, AND AUXILIARY TABLES*

BY

JOSEPH G. DALTON

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SEVENTH EDITION

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Incorporating Tables for Latitudes to  
60°, by the courtesy of the publishers  
of Raphael's TABLES OF HOUSES

RICHMOND, VIRGINIA  
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## VIEWS AND SUGGESTIONS.

There appears to be a wide and increasing interest in regard to Astrology in this country, and perhaps there are some who wish to study it with as much exactness and thoroughness as the peculiar subject is capable of, in its principal branch the doctrine of nativities. If such are very few as yet, the spirit of this age, now inclining to submit the occult and elusive to scientific scrutiny, is likely to breed them ere long. The present writer has studied it, in quite a private way, from a rational point of view and with careful induction, for many years, taking its fundamental ideas as probable hypotheses and using a strict mathematical method according to the best works on spherical astronomy, with the intent particularly of testing with scientific caution what correspondence there is between "arcs of direction" and the events of a person's life, when the data are known to be correct. As geometrical laws shape everything, this is the part that can probably be made nearly an exact science. The rest of it — after rejecting the mouldy old nonsense and jargon, the figments and lies of the books — is mostly deductions from general and ambiguous symbols which yield little definite meaning to the intellect, though often read wonderfully by some persons who have the fine divining faculty; but this insight, however real in its way, is a raw poetry not science, and is unreliable, especially as to times of events. I have reached numerous confident conclusions on the subject by a long inquisitorial search. Some are negative ones, indeed, yet valuable; but many are drawn from positive proof of close accord between planetary movements and personal events, disclosing to view the main points and lines in the geometrical plan of life, though giving no clear picture of anything.

Astrology is far from being a baseless and refuted pretension, as the cyclopedias and scientists, with "orthodox mental strut," generally assert. They condemn it without a trial, without examination and experiment, confounding its essential truth with the error and folly that corrupt it. Genteel scholarship and formal intellects are naturally content to abide in ignorance and aversion concerning these ancient ideas of "spherical predominance," which the unsophisticated multitude treat with innate sympathy, and which many great poets and thinkers have entertained as easily credible

in a universe so full of wonders and mystery. Its coarser aspect is conspicuous in the salable books and almanacs of the elusory charlatans who commonly lurk concealed under the name of some angel or star to prey upon the credulous, and in whose hands it has made no progress for hundreds of years. They "hitch their wagon to a star," but remain in the mire and the mist. As practised for gain and gammon, Astrology is eternal truth in distress and demoralized, disgraced by its friends, despised by its foes, and thus ever in deserved ill-repute with sensible people. It was in the same dismal plight in Bacon's time, who said that it "is so full of superstition that scarce anything sound can be discovered in it, though we judge it should rather be purged than absolutely rejected." Bacon also looked for what he calls "*Astronomia viva*, a living astronomy, an astronomy that should set forth the nature, the motion, and the influences of the heavenly bodies, as they really are." Here is the hint of a wise ideal which, after three centuries, modern astronomy, in all its extreme excellence of material means, does not fulfil. It is a vast and complex growth of declared exact science, but all mechanical and soulless, empty of divine reason and human meaning. It has been wanting in the very precision which is its chief pride. That the tabular positions of planets were erroneous, and getting more and more wide of their observed places, was seldom mentioned except in official documents. In 1882 Prof. Newcomb said, "the increasing discordance between theory and observation is a field which greatly needs to be investigated." The showy astronomy was mainly devoted to solar gas and meteors and exact places of millions of the minutest stars. Since then the American astronomers have perfected new tables of the planets.

Astrology is a curious and seductive rather than a useful study; yet is a legitimate subject for research, with the attraction of general interest, but has its own perplexities and hindrances like any other scientific inquiry. It needs an invigorating infusion of modern thought, students of the right kind to give intellectual respectability to its aims and methods; minds with the true soular elevation and openness, "not regarding of any one's mocks," and able to emulate the patient and

severe sagacity that has reached the admirable results of the established sciences. It requires no high mathematical ability, but such as will be enamoured of much dry ciphering if it lead to a real advance by gradual steps. For the sake of such students, to furnish them a new and ample instrument, and to diminish their

liability to error, this volume is issued. Drink deep, or taste not, the Uranian cup of mystical science; the empty froth and dubious flavor are mostly on the surface. Tarry not in the dim region of fallible conjecture, but proceed to mathematic certainties.

*Ars vera est, sed pauci artifices reperiuntur.*

## EXPLANATIONS AND INSTRUCTIONS.

### WITH USEFUL TABLES.

The twelve astrological Houses are formed by trisecting each of the four natural divisions of the heavens made by the meridian and horizon. It is as if the eastern horizon were tilted up to  $\frac{1}{3}$  and to  $\frac{2}{3}$  the distance, and then down in like manner. This makes six equal sections on the east of the meridian, the others being directly opposite. The celestial equator is equally divided by these into arcs of  $30^\circ$  each; the ecliptic on account of its obliquity is unequally divided, hence the present Table which gives for each latitude the intersecting points of the ecliptic with the eastern horizon and those other great circles, to each degree of ecliptic longitude on the meridian and its proper sidereal time. It is the only general one of the kind ever made. The original MS. covers from  $10^\circ$  to  $60^\circ$  of latitude, but the limits here,  $22^\circ$  to  $56^\circ$ , include the whole civilized globe. Hitherto all such tables have been for some one latitude, and they but rudely serve within narrow bounds. Its usefulness therefore is very obvious in making a diagram of the heavens at a given date and locality to get the mundane positions of planets and stars for astrological purposes or any questions that require such a figure. An immense amount of laborious calculation has been necessary, and systematic method and the utmost care was used to insure its correctness. The ascendant, or first house, was strictly computed to the nearest tenth of a minute at a sufficient number of points (according to the more or less uniform variation), and then interpolated downward and across the page by second, third and often fourth differences, insuring general accuracy to the nearest minute. The other and minor houses were similarly fixed at many points to the nearest hundredth of a degree, and interpolated for accuracy to the nearest tenth. More than a thousand operations in trigonometry, by seven or ten logarithms each, were performed, between which to fill in by the quicker but correct process of interpolation. The ecliptic obliquity used was  $23^\circ 27' 15''$ , its mean value in 1885. On account of the very slow decrease in this angle, I find that for dates at least sixty years before and after that year the Table will hardly err anywhere more than  $1'$  on the horizon, and this mostly in the highest latitudes. It will serve still for a century more either way and be but a trifle wrong sometimes. The formula used in the computa-

tions was adapted from that for getting the longitude of "the nonagesimal," or ecliptic point  $90^\circ$  from the horizon, as given in the appendix to Bowditch's Navigator, Problem IV (old editions). It is substantially the same as that by which the ordinary tables are made for single latitudes; but I have examined many of these and find them erroneous in several ways,\* and they betray a defective method in not showing the exact recurrence of the series of differences and the consequent agreements of one quadrant with another. That the simple mathematical facts of these conformities appear in the present Table is a means of *detecting any copying* from it, on pretence of original work, by that sort of persons who make the usual tables. These plainly show the incapacity of the computers, who do more than is needful, and worse than is endurable.

The astrological books are so erroneous and various in the rules for making a figure, that it is well to have here some instructions and cautions for getting the true sidereal time in any case, with which to use this Table. Hardly a single one of those books mentions the correction to be applied for distance in longitude from Greenwich! and most of them ignore also the correction of mean time to sidereal. Neglect of the first one makes an error of  $47'$  at Boston and of  $1^m 20'$  on the Pacific coast, which in arc equals  $12'$  to  $20'$ , a difference of four months in directions to the "angles." To neglect the other correction may cause a further error of  $57'$ —about a whole year. I give the usual table here for making these corrections, and the entire process is as follows:

To the Greenwich sidereal time at the previous mean noon add the correction for longitude of the place, taken from table A, and you have the sidereal time of the same noon at the given place. (East of Greenwich this correction is *minus*.) To this add the interval between that noon and the given time, and by the same table its correction. The sum is the sidereal time or right ascension of the midheaven for the given place and time.

It is to enable students to be accurate, when necessary, that these details of precision are given, as otherwise they must be gathered from several sources. Of course

\* Some give the sidereal time to the nearest minute only, which is often an error of seven minutes of arc, to start with!

they can be omitted in making a rough figure for general consideration, and then the rule is: Gr. sid. t. at previous noon + time from same local noon = approx. sid. t. required. Add 2 or 3 minutes, and it will be nearer right on the average.

There is, however, of late a liability to fall into much larger errors. On Nov. 18, 1883, Standard Time was adopted in this country, and time-pieces no longer indicate mean solar time, though they measure it. Any given standard time must therefore first be corrected to mean time. Boston, for example, is in the Eastern Division, the central meridian of which is five hours west longitude, and the new time throughout that division is fixed at five hours earlier than Greenwich time. As Boston is east of the centre, with longitude or time-difference of 4<sup>h</sup> 44<sup>m</sup> 15<sup>s</sup>, its standard time is too slow by 15<sup>m</sup> 45<sup>s</sup>. Therefore, add that amount to get the mean time. At New York it is too slow by 3<sup>m</sup> 58<sup>s</sup>. Philadelphia is in the same division, but a little *west* of the centre, in longitude 5<sup>h</sup> 0<sup>m</sup> 36<sup>s</sup>; hence standard time there is 36<sup>s</sup> too *fast*. So of any place in either of the five hourly divisions: the long.-diff. of cent. merid. and place = corr. to mean t., and is *plus* if the place be east, and *minus* if west, of the meridian. This correction must be made with care, as it amounts to about *half an hour* near the border of a division, and if applied wrongly may make an error of double that! Practically there are many exceptions and uncertainties in the use of our standard time, also liabilities to large error for such places as many in Maine, Ohio and Pennsylvania, where it was not fully adopted until several years after. In "The Pathfinder Railway Guide," of Boston, there *has been* much information as to its local use, with a map.\*

Now with the sidereal time and the *geographic*, or the *geocentric*, latitude (as you may think proper), the Table is used like any table of double entry. Sid. T., with its equivalent arc, † to each degree on the meridian or 10th house, heads each main column. "H" below indicates the other houses, and on the side is the Latitude. Intermediate values are got generally by simple proportion between the two nearest ones, in doing which between columns it is easier to use the arc than the time. Time can be changed into arc by table C. To save needless repetition many figures and decimal points are omitted where they are readily seen above. On each left-hand page a column is duplicated from the previous page to escape the awkwardness of reckoning between columns so situated.

There is hardly any obvious use in having the minor houses so closely calculated, but it might be needed for some purposes, and their columns would not look well if they differed too much in that respect from the ascendant.

*These Explanations, etc., are now much amended, 1903.*

The geographical latitude is certainly not to be used for primary directions, for all such calculations as are affected by the earth's rotation will be wrong except when the equinoctial points are near the horizon. For those purposes, therefore, the latitude must be corrected for the spheroidal shape of the earth by table B, to convert it into the *geocentric* latitude by "the angle of the vertical," as astronomers do in computing eclipses, for which fact see the same chapter in Bowditch, before re-

TABLE A.										TABLE B.				
CORRECTION OF MEAN TO SIDEREAL TIME.										CORRECTION OF LATITUDE.				
										Always minus.				
Mean time.	Corr.	Mean time.	Corr.	Mean time.	Corr.	Mean time.	Corr.	Mean time.	Corr.	Lat.	Correc.	Lat.	Correc.	
H.	M.	S.	M.	S.	M.	S.	M.	S.	M.	"	"	"	"	
1	0	9.86	1	0.16	31	5.09	1	.00	31	.09	22	8 8	41	11 37
2	0	19.71	2	0.33	32	5.26	2	.00	32	.09	23	8 25	42	11 40
3	0	29.57	3	0.49	33	5.42	3	.01	33	.09	24	8 42	43	11 42
4	0	39.43	4	0.66	34	5.58	4	.01	34	.09	25	8 58	44	11 43
5	0	49.28	5	0.82	35	5.75	5	.01	35	.10	26	9 14	45	11 44
6	0	59.14	6	0.99	36	5.91	6	.02	36	.10	27	9 29	46	11 44
7	1	9.00	7	1.15	37	6.08	7	.02	37	.10	28	9 43	47	11 43
8	1	18.85	8	1.31	38	6.24	8	.02	38	.10	29	9 56	48	11 40
9	1	28.71	9	1.48	39	6.41	9	.02	39	.11	30	10 9	49	11 38
10	1	38.57	10	1.64	40	6.57	10	.03	40	.11	31	10 21	50	11 34
11	1	48.42	11	1.81	41	6.73	11	.03	41	.11	32	10 32	51	11 29
12	1	58.28	12	1.97	42	6.90	12	.03	42	.11	33	10 42	52	11 24
13	2	8.13	13	2.14	43	7.06	13	.04	43	.12	34	10 52	53	11 17
14	2	17.99	14	2.30	44	7.23	14	.04	44	.12	35	11 1	54	11 10
15	2	27.85	15	2.46	45	7.39	15	.04	45	.12	36	11 9	55	11 2
16	2	37.70	16	2.63	46	7.56	16	.04	46	.13	37	11 16	56	10 54
17	2	47.56	17	2.79	47	7.72	17	.05	47	.13	38	11 23	57	10 44
18	2	57.42	18	2.96	48	7.88	18	.05	48	.13	39	11 28	58	10 34
19	3	7.27	19	3.12	49	8.05	19	.05	49	.13	40	11 31	59	10 23
20	3	17.13	20	3.28	50	8.21	20	.05	50	.14	41	11 37	60	10 11
21	3	26.99	21	3.45	51	8.38	21	.06	51	.14	N. B. This table is newly calculated from the latest determination of the ellipticity, E, by the formula,			
22	3	36.84	22	3.61	52	8.54	22	.06	52	.14	tan geoc. Lat. = (1-E) tan lat.			
23	3	46.70	23	3.78	53	8.71	23	.06	53	.15	Log. of (1-E) is 9.9970351.			
24	3	56.56	24	3.94	54	8.87	24	.07	54	.15				
25	4	6.42	25	4.11	55	9.03	25	.07	55	.15				
26	4	16.28	26	4.27	56	9.20	26	.07	56	.15				
27	4	26.14	27	4.43	57	9.36	27	.07	57	.16				
28	4	36.00	28	4.60	58	9.53	28	.08	58	.16				
29	4	45.86	29	4.76	59	9.69	29	.08	59	.16				
30	4	55.72	30	4.93	60	9.86	30	.08	60	.16				

The sum of correct's will be taken to nearest second.

ferred to, and the reductions of latitude in the British and the American Ephemeris with the list of observatories. This correction often alters very much all semi-arc, especially in high latitudes; hence a main cause of the monstrous errors constantly made by those who attempt to calculate primary directions is their use of the geographic latitude.

The matter of the "poles" of the minor houses is unsound in the astrological books, and their tables of them are wrong. It should be understood, therefore, that those houses in the present Table are calculated by a strictly correct method, which for some parts in high latitudes gives results that differ, sometimes more than half a degree, from those got by using the common table of poles. I found it necessary to examine the whole question thoroughly. These poles are angles analogous to the pole of a place, its latitude, and while

\* As to the various systems of standard time in foreign countries information is not easy to obtain; the astrologians know little of it and say nothing, for they always prefer to evade difficulties.  
 † The calculations were made from the exact R. A. in arc, but it is here given to the nearest tenth of a minute as best for getting proportional parts in the Table.

the ascendant is obtained directly from that, the other houses can be had precisely only by a trial-and-error process from a mean or approximate pole to begin with, because the poles are factors in the operation that depend upon the very thing sought for. Now the usual table of poles is not made for an average case, but for the extreme one, that is when  $\varpi 0$  or  $\wp 0$  is on the cusp — the blunder of some one about a century ago, and has been blindly copied ever since. The errors therein are large for high latitudes. The proper average poles are a mean between those of  $\varphi 0$  on the cusp of a house, and those when  $\varpi 0$  is there. I find that a near average is had when  $8 22$ , or any point of same declination, is on the cusps. The table D below is made accordingly. The formula for 11th and 3d houses is  $\tan \text{ pole} = \frac{\sin \frac{1}{2} \text{ asc. diff.}}{\tan \text{ decl.}}$ . For the 12th and 2d,  $\frac{2}{3}$  is put instead of  $\frac{1}{2}$ . Ecliptic obliquity is taken at  $23^\circ 27' 15''$ , but its variation for many years has little effect. This table will give in all cases nearly true results\* directly by the usual formula, especially if account be made of 2d differences between the tabular latitudes.

OF FIGURES FOR SOUTH LATITUDE.

Though the Table, as it stands, is for North latitudes only, it is equally and easily available for Southern ones, as follows: Obtain the R. A. and longitude of the mid-heaven as usual; then, instead of getting the other houses from same page, add  $180^\circ$ , and in that part of the Table, with the latitude, find the values for those houses, but substitute the opposite signs for the ones found there.\*

Make the figure with ascendant on the left as usual. To reverse it, though correct in idea, causes endless confusion to one accustomed to the common position. Only bear in mind that the equator and zodiacal ring above the earth are now behind you, to the North. In calculations from a Southern figure the only change is that the plus-or-minus rule for ascensional difference is reversed.

If the geographical latitude be proper for figures, then the English tables of houses are tolerably correct except some inaccuracies in making, and by taking ecliptic obliquity at  $23^\circ 28'$ , its amount more than a century ago. But the whole system of primary direction has been confused and falsified owing to ignorance of that essential factor, the Geocentric latitude. These pages rectify all that and provide means for correct figures at any point in two wide belts around the world, at any date for about two centuries before or after our assumed Obliquity of 1885.

Of course there can be no really scientific and thorough treatment of nativities unless the factors for all operations are complete and correct. The present work is "well calculated" to facilitate that; and our "Sixteen Principal Stars" repairs many glaring omissions in all writers on the subject.

The working of nativities has always been utterly chaotic, and is worse than ever now that they falsely equate arcs by that vain scheme of a degree for a year. It can never be otherwise without the full astronomical basis and a right mathematical method, in place of the scant system and excessive error of the sordid Sidrophels who debase the real astrology by their confusions and deceit, and whose spurious teaching is the worst obstacle to the development of what exact science in it is possible. *O curvæ animæ, et mathesis inanis.*

\* This very necessary problem is left out of all the old books, and recent writers have mostly ignored or befogged it.

TABLE C. TO CONVERT SIDEREAL TIME INTO R. A. IN ARC.						TABLE D. APPROXIMATE POLES.		
Time	Arc.	Time	Arc.	Time	Arc.	Lat.	11th and 3d H.	12th and 2d H.
h.	m.	m.	s.	m.	s.	°	'	"
1	15	1	0 15	31	7 45	10	3 21.9	6 42.4
2	30	2	0 30	32	8 0	13	4 24.3	8 45.3
3	45	3	0 45	33	8 15	16	5 28.0	10 49.8
4	60	4	1 0	34	8 30	19	6 33.5	12 56.5
5	75	5	1 15	35	8 45	22	7 41.4	15 5.9
6	90	6	1 30	36	9 0	25	8 52.0	17 18.3
7	105	7	1 45	37	9 15	28	10 5.8	19 34.2
8	120	8	2 0	38	9 30	31	11 23.5	21 54.1
9	135	9	2 15	39	9 45	34	12 45.8	24 18.7
10	150	10	2 30	40	10 0	37	14 13.7	26 48.6
11	165	11	2 45	41	10 15	40	15 48.1	29 24.1
12	180	12	3 0	42	10 30	42	16 55.1	31 11.3
13	195	13	3 15	43	10 45	44	18 6.3	33 1.7
14	210	14	3 30	44	11 0	46	19 22.1	34 55.5
15	225	15	3 45	45	11 15	48	20 42.8	36 52.8
16	240	16	4 0	46	11 30	50	22 9.0	38 53.6
17	255	17	4 15	47	11 45	51	22 54.6	39 55.5
18	270	18	4 30	48	12 0	52	23 41.9	40 58.6
19	285	19	4 45	49	12 15	53	24 31.2	42 2.8
20	300	20	5 0	50	12 30	54	25 22.6	43 8.1
21	315	21	5 15	51	12 45	55	26 16.1	44 14.5
22	330	22	5 30	52	13 0	56	27 12.0	45 22.1
23	345	23	5 45	53	13 15	57	28 10.5	46 31.0
24	360	24	6 0	54	13 30	58	29 11.8	47 41.2
		25	6 15	55	13 45	59	30 16.3	48 52.7
		26	6 30	56	14 0	60	31 24.1	50 5.7
		27	6 45	57	14 15			
		28	7 0	58	14 30			
		29	7 15	59	14 45			
		30	7 30	60	15 0			

This table is merely to multiply by 15, as the units of time are that larger than those of arc.

This table is only for use in making figures without a table of houses, or to form such a one.

\* The test of exactness in such point is, that  $\frac{1}{2}$  (or  $\frac{2}{3}$ ) its semi-arc should equal its meridian distance by right ascension.

COMPREHENSIVE TABLE OF HOUSES

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 0 0 0 } $\gamma$ ARC 0° 0'.0 } 0°					H. M. S. 0 3 40 } $\gamma$ 1° 0° 55'.0 }					H. M. S. 0 7 20 } $\gamma$ 2° 1° 50'.1 }					H. M. S. 0 11 1 } $\gamma$ 3° 2° 45'.2 }					H. M. S. 0 14 41 } $\gamma$ 4° 3° 40'.2 }					H. M. S. 0 18 21 } $\gamma$ 5° 4° 35'.3 }				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	4.0	7.9	9 8	3.2	29.4		5.0	8.8	9 57	4.0	0.3	6.0	9.7	10 46	4.8	1.3	7.0	10.6	11 35	5.7	2.2	8.0	11.5	12 24	6.5	3.1	9.0	12.4	13 13	7.3	4.1
23	1	8.2	9 35	4	5	1	9.1	10 24	2	4	1	10.0	11 13	5.1	4	1	9 12	2	9	3	1	8 12	5 1	7	2	1	7 13	4 0	6	1	
24	2	6 10	3	7	6	2	5 10	5 2	5	5	2	4 11	4 1	3	4	2	11.3	12 29	6.2	3	2	12.2	13 18	7.0	3	2	13.1	14 7	8	2	
25	3	9 10	3 1	9	7	3	8 11	20	8	6	3	7 12	8	6	5	3	6 12	5 7	4	4	3	5 13	4 5	2	4	3	4 14	3 4	8.1	3	
26	4	9.2	10 59	4.2	29.8	4	10.1	11 48	5.0	0.7	4	11.0	12 36	8	6	4	9 13	2 5	7	5	4	8 14	1 3	5	3.4	4	7 15	1 3	4.3		
27	4.5	6 11	2 7	5	8	5.5	5 12	1 6	3	7	6.5	4 13	5 6.1	1.7	7.5	12.3	13 53	9	2.6	8.5	13.2	14 41	7	5	9.5	14.1	15 29	6	4		
28	6	9 11	5 6	7	9	6	8 12	4 5	6	8	7	7 13	3 4	4	7	7	6 14	2 2	7.2	7	7	5 15	1 0	8.0	6	7	4 15	5 7	8	5	
29	7	10.2	12 26	5.0	π	7	11.1	13 15	8	9	8	12.1	14 3	6	8	8	13.0	14 51	5	7	8	9 15	3 8	3	7	8	8 16	2 6	9.1	6	
30	8	6 12	5 6	3	0.1	8	5 13	4 4	6.1	1.0	9	4 14	3 2	9	9	9	3 15	2 0	7	8	9	14.2	1 6	7	5	3.7	9 15.1	1 6	5 5	4.7	
31	4.9	11.0	13 26	6	2	6.0	9 14	1 5	4	1	7.0	8 15	2 7.2	2.0	8.0	7 15	5 0	8.0	9	9.0	6 16	3 7	8	8	10.0	5 17	2 5	6	7		
32	5.0	3 13	5 7	8	3	1	12.2	14 4 5	7	2	2	13.2	1 5 3 3	5	1	2	14.1	1 6 2 0	3	3.0	2	15.0	1 7 7	9.1	9	2	9 17	5 4	9	8	
33	2	7 14	2 9	6.1	4	2	6 15	1 7	9	3	3	6 16	4 8	2	3	5 16	5 1	3	4 17	3 3	4.0	3	4 17	3 8	3	4.0	3 16.3	1 8 2 5	10.1	9	
34	3	12.1	1 5 1	4	5	4	13.0	1 5 4 9	7.2	4	4	14.0	1 6 3 6	8.0	3	5	9 17	2 2	8	2	5	8 18	9 6	1	5	7 18	5 6	4	5.0		
35	4	5 15	3 4	7	0.6	6.5	4 16	2 1	5	1.5	7.6	4 17	8 3	4	8.6	1 5.3	1 7 5 4	9.1	3	9.6	1 6.2	1 8 4 1	9	2	6 17.1	1 9 2 7	7	1			
36	5.6	13.0	1 6 8	7.0	7	7	9 16	5 4	8	6	7	9 17	4 1	6	2.5	8	8 18	2 7	4	4	8	7 19	1 3	10.2	3	8	6 19	5 9	11.0	2	
37	7	4 16	4 2	3	8	8	14.3	1 7 2 8	8.1	7	9	15.3	1 8 1 4	9	6	9	16.2	1 9 0	7	3.5	9	17.1	1 9 4 6	5	4.4	11.0	1 8.0	2 0 3 2	3	2	
38	9	9 17	1 6	7	9	7.0	8 18	2 4	8	8	8.1	8 18	4 8	9.2	7	9.1	7 19	3 4	10.0	6	10.1	6 20	2 0	8	4	1	5 21	5 6	5.3		
39	6.1	14.4	1 7 5 2	8.0	1.0	1	15.3	1 8 3 7	7	9	2	16.3	1 9 2 3	5	8	3	17.2	2 0 8	3	7	3	18.1	2 0 5 4	11.0	5	3	19.0	2 1 3 9	8	4	
40	3	9 18	2 8	3	1	3	8 19	1 3	9.0	2.0	4	8 19	5 9	9	4	7 20	4 4	6	8	5	6 21	2 9	3	6	5	5 22	1 4	12.1	5		
41	4	15.4	1 9 5	7	2	4	16.3	1 9 5 0	3	1	6	17.3	2 0 3 5	10.2	3.0	6	18.2	2 1 2 0	11.0	9	7	19.1	2 2 4	6	4.7	7 20.0	2 2 4 9	4	6		
42	6	9 19	4 3	9.0	4	6	9 20	2 8	7	2	8	8 21	1 2	5	1	8	7 21	5 6	3	4.0	9	6 22	4 1	12.0	8	9	5 23	2 5	7	5.7	
43	8	16.5	2 0 2 2	3	5	8	17.4	2 1 6 10.0	4	4	9	18.4	2 1 5 0	9	2	10.0	1 9.3	2 2 3 4	6	1	11.1	2 0.2	2 3 1 8	3	9	12.1	2 1.1	2 4 2 13.1	8		
44	7.0	17.1	2 1 1	6	1.6	8.0	18.0	2 1 4 5	4	5	9.1	19.0	2 2 2 9	11.2	3	1	9 23	1 3	12.0	2	3	8 23	5 6	7	5.0	4	7 24	4 0	4	9	
45	2	7 21	4 2	10.0	7	2	6 22	2 6	8	2.6	3	6 23	9 5	3.4	3	20.5	2 3 5 2	3	3	4	21.4	2 4 3 5	13.0	1	6	22.3	2 5 1 9	8	6.0		
46	5	18.3	2 2 2 4	4	8	4	19.3	2 3 7 11.1	7	7	5	20.3	2 3 5 0	8	5	5	21.1	2 4 3 3	6	4.4	6	22.0	2 5 1 6	4	2	8	9 25	5 8	14.1	1	
47	7	19.0	2 3 7	8	9	6	9 23	5 0	5	8	7	9 24	3 2	12.2	6	7	8 25	1 5	9	5	8	7 25	5 7	7	3	13.0	2 3.6	2 6 3 9	4	2	
48	9	7 23	5 1	11.2	2.1	8	20.6	2 4 3 3	9	9	9	21.6	2 5 1 5	6	7	9	22.5	2 5 5 7	13.3	6	12.0	2 3.4	2 6 3 9	14.1	4	2	24.3	2 7 2 0	8	3	
49	8.1	20.4	2 4 3 6	6	2	9.1	21.3	2 5 1 8	12.3	3.0	10.2	22.3	2 5 5 9	13.0	9	11.2	23.2	2 6 4 1	7	7	3	24.0	2 7 2 2	5	5.6	5	9 28	3 1 5.2	4		
50	3	21.2	2 5 2 2	12.0	3	4	22.1	2 6 4	7	2	5	23.0	2 6 4 5	4	4.0	5	9 27	2 6 1 4	14.1	9	6	7 28	6 9	7	7	7 25.6	2 8 4 7	6	6.5		
51	6	22.0	2 6 1 0	4	4	6	9 26	5 1	13.1	4	8	8 27	3 1	8	2	8	24.7	2 8 1 2	5	5.0	9	25.5	2 8 5 2	15.3	8	14.0	2 6.4	2 9 3 2	16.0	6	
52	9	9 26	5 9	8	6	9	23.7	2 7 4 0	5	5	11.1	24.6	2 8 2 0	14.2	3	12.1	25.5	2 8 5 9	9	1	13.2	26.3	2 9 3 9	7	9	3	27.2	0 1 9	4	7	
53	9.2	23.8	2 7 5 0	13.3	8	10.2	24.6	2 8 3 0	14.0	3.6	4	25.5	2 9 9	7	4	4	26.4	2 9 4 8	15.4	2	5	27.2	0 2 7	16.1	6.1	6	28.1	1 7	8	8	
54	5	24.8	2 8 4 3	8	3.0	6	25.6	2 9 2 2	5	7	7	26.5	0 0 1 5.2	5	5	8	27.4	0 3 9	9	4	9	28.2	1 1 7	5	2	15.0	29.1	1 5 6	17.2	7.0	
55	8	25.8	2 9 3 7	14.3	1	9	26.7	0 1 5	15.0	9	12.0	27.5	0 5 3	7	7	13.2	28.4	1 3 1	16.4	6	14.3	29.3	2 9 1 7.0	4	4	4	0.1	2 4 7	7	2	
56	10.1	27.0	0 3 2	8	3	11.3	27.8	1 1 0	5	4.1	4	28.6	1 4 7	16.2	8	6	29.5	2 2 5	9	7	6	0.4	3 2	5	5	8	1.2	3 3 9	18.2	3	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 0 22 2 } $\Upsilon$ 6° ARC 5° 30'.4 }					H. M. S. 0 25 42 } $\Upsilon$ 7° 6° 25'.6 }					H. M. S. 0 29 23 } $\Upsilon$ 8° 7° 20'.8 }					H. M. S. 0 33 4 } $\Upsilon$ 9° 8° 16'.0 }					H. M. S. 0 36 45 } $\Upsilon$ 10° 9° 11'.3 }					H. M. S. 0 40 27 } $\Upsilon$ 11° 10° 6'.6 }																
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3												
22	10.0	8	13.3	14	2	8.2	5.0	10.9	14.2	14	51	9.0	5.9	11.9	15.1	15	40	9.9	6.8	12.9	16.0	16	29	10.7	7.8	13.9	16.9	17	18	11	6	8.7	14.8	17.7	18	7	12.4	9.6					
23	1	6	14	29	4	1	11.1	5	15	17	3	6.0	12.0	4	16	6	10.1	9	13.0	3	16	55	9	8	14.0	17.2	17	44	8	8	15.0	18.1	18	32	6	7							
24	2	14	0	14	55	7	1	2	8	15	44	5	0	2	8	16	32	3	7.0	1	6	17	21	11.2	9	1	5	18	10	12.0	8	1	4	18	58	8	8						
25	3	3	15	22	9	2	3	15.2	16	11	7	1	3	16.1	16	59	6	0	2	17.0	17	47	4	8.0	2	8	18	36	2	9	2	7	19	24	13	1	8						
26	4	6	15	50	9.1	3	4	5	16	38	10.0	2	4	4	17	26	8	1	4	3	18	14	6	0	3	18.2	19	2	4	9	3	19.1	19	50	3	9							
27	10.5	15.0	16	17	4	5.3	11.5	9	17	5	2	3	12.5	8	17	54	11.0	2	13.5	6	18	41	9	1	14.5	5	19	29	7	9.0	15.5	4	20	17	5	9							
28	7	3	16	45	6	4	7	16.2	17	33	5	6.3	7	17.1	18	21	3	2	6	18.0	19	9	12.1	1	6	9	19	57	9	1	6	8	20	44	8	10.0							
29	8	7	17	14	9	5	8	6	18	1	7	4	8	5	18	49	5	7.3	8	3	19	37	3	2	7	19.2	20	24	13.2	1	7	20.1	21	12	14.0	1							
30	9	16	0	17	43	10.2	6	9	9	18	30	11.0	5	9	8	19	17	8	4	9	7	20	5	6	8.3	9	6	20	52	4	2	9	5	21	39	2	1						
31	11.1	4	18	12	4	5.6	12.1	17.3	18	59	2	5	13.0	18.2	19	46	12.0	5	14.0	19.1	20	33	8	4	15.0	9	21	20	7	3	16.0	8	22	7	5	2							
32	2	8	18	41	7	7	2	7	19	29	5	6.6	2	5	20	16	3	5	2	4	21	3	13.1	4	2	20.3	21	49	9	9.3	2	21.2	22	36	7	2							
33	3	17	2	19	12	11.0	8	4	18.1	19	59	8	7	3	9	20	45	6	6	3	8	21	32	4	5	3	7	22	18	14.2	4	3	6	23	5	15.0	10.3						
34	5	6	19	42	2	9	5	5	20	29	12.0	8	5	19.3	21	15	8	7.7	5	20.2	22	2	6	6	5	21.1	22	48	4	5	5	22.0	23	34	2	4							
35	7	18	0	20	14	5	6.0	7	9	21	0	3	9	7	8	21	46	13.1	7	7	6	22	32	9	8.6	7	5	23	18	7	5	7	4	24	4	5	4						
36	8	5	20	45	8	0	8	19.3	21	31	6	7.0	8	20.2	22	17	4	8	8	21.1	23	3	14.2	7	8	22.0	23	49	15.0	6	8	8	24	35	8	5							
37	12.0	9	21	18	12.1	1	13.0	8	22	3	9	1	14.0	7	22	49	7	9	15.0	5	23	34	4	8	16.0	4	24	20	2	9.7	17.0	23.3	25	5	16.0	6							
38	2	19.4	21	51	4	2	2	20.3	22	36	13.1	2	2	21.1	23	21	9	8.0	2	22.0	24	7	6	9	2	9	24	52	5	8	2	7	25	37	2	10.6							
39	3	9	22	24	6	6.3	4	7	23	9	4	3	4	6	23	54	14.2	1	4	5	24	39	9	9	4	23.4	25	24	7	8	4	24.2	26	9	5	7							
40	5	20.4	22	58	9	4	5	21.2	23	43	7	7.4	6	22.1	24	28	5	1	6	23.0	25	13	15.2	9.0	6	9	25	57	16.0	9	6	8	26	42	8	8							
41	7	9	23	33	13.2	5	7	8	24	18	14.1	4	8	6	25	2	8	2	8	5	25	47	5	1	8	24.4	26	31	3	10.0	8	25.3	27	15	17.1	9							
42	9	21.4	24	9	5	6	14.0	22.3	24	53	4	5	15.0	23.2	25	37	15.1	8.3	16.0	24.1	26	21	8	2	17.0	9	27	5	6	1	18.0	8	27	49	4	9							
43	13.2	22.0	24	46	8	6.7	2	9	25	30	7	5	2	7	26	13	4	4	2	6	26	57	16.1	3	2	25.5	27	40	9	1	3	26.4	28	24	7	11.0							
44	4	6	25	23	14.1	8	4	23.5	26	7	15.0	7.6	4	24.3	26	50	7	5	5	25.2	27	33	5	9.4	5	26.1	28	16	17.2	2	5	9	28	59	18	0	1						
45	6	23.2	26	2	5	9	6	24.1	26	44	3	7	6	9	27	27	16.0	6	7	8	28	10	8	4	7	7	28	53	5	10.3	7	27	5	29	36	3	2						
46	8	8	26	41	8	7.0	8	7	27	23	6	8	8	25.5	28	6	3	8.7	9	26.4	28	48	17.1	5	9	27.3	29	30	8	4	9	28.1	0	13	6	3							
47	14.0	24.5	27	21	15.1	1	15.0	25.3	28	3	16.0	9	16.1	26.2	28	45	6	8	17.1	27.1	29	27	4	6	18.2	9	0	9	18.1	5	19.1	8	0	51	19.0	11.3							
48	3	25.1	28	2	5	2	2	26.0	28	44	4	8.0	4	8	29	25	17.0	9	4	7	0	7	7	9.7	5	28.6	0	48	5	6	4	29	4	1	30	3	4						
49	5	8	28	45	9	3	5	7	29	26	7	1	6	27.5	0	7	4	9.0	7	28.4	0	48	18.1	8	7	29.2	1	29	8	10.7	7	0	1	2	9	7	5						
50	8	26.5	29	28	16.3	4	8	27.4	0	9	17.1	2	9	28.2	0	49	8	1	18.0	29.1	1	30	5	9	19.0	9	2	10	19.2	8	20	0	8	2	50	20.0	6						
51	15.1	27.3	0	13	7	7.5	16.1	28.2	0	53	5	3	17.2	29.0	1	33	18.2	2	3	9	2	12	9	10.0	3	0	7	2	52	6	9	3	1	5	3	32	3	11.7					
52	4	28.1	0	58	17.1	6	4	29.0	1	38	9	8.4	5	8	2	18	6	3	6	0	7	2	57	19.3	1	6	1	5	3	36	20.0	11.0	7	2	3	4	15	7	8				
53	7	29.0	1	46	5	7	8	8	2	25	18.3	5	9	0	7	3	4	19.0	9.4	9	1	5	342	7	2	20.0	2	3	4	21	4	1	21.1	3	2	5	0	21.1	9				
54	16.1	9	2	34	9	8	17.2	0	8	3	13	7	6	18.3	1	6	3	51	4	5	19.3	2	4	29	20.1	3	4	3	2	5	7	8	2	5	4	1	5	4	5	12.0			
55	5	0	9	3	24	18.4	8.0	6	1	8	4	2	19.1	8	7	2	6	440	8	6	7	3	4	5	17	5	4	8	4	2	5	5	21	2	3	9	5	1	6	32	9	1	
56	9	2	0	4	16	9	1	18.0	2	9	4	5	3	19.1	3	7	5	30	20.2	7	20.2	4	5	6	7	9	5	21.3	5	2	6	44	6	4	22	4	6	1	7	21	22	3	2

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

4 UPPER MERIDIAN, CUSP OF 10th H.

H.	H. M. S. } $\Upsilon$ 11°					H. M. S. } $\Upsilon$ 12°					H. M. S. } $\Upsilon$ 13°					H. M. S. } $\Upsilon$ 14°					H. M. S. } $\Upsilon$ 15°					H. M. S. } $\Upsilon$ 16°								
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2
22	14.8	17.7	18 7	12.4	9.6	15.8	18.6	18 55	13.3	10.6	16.8	19.5	19 44	14.1	11.5	17.7	20.4	20 33	15.0	12.4	18.7	21.2	21 22	15.8	13.4	19.7	22.1	22 10	16.7	14.3				
23	15.0	18.1	18 32	6 7	7	9 9	19 21	5 6	9	8 20	9 3	6	9	7 20	58 2	5	8	6 21	47 16.0	4	8	4 22	35 9	4										
24	1 4	18 58	8 8	16.1	19.3	19 46	7 7	17.0	20.2	20 35	5 6	18.0	21.0	21 23	4 5	19.0	9 22	12 2	5 9	8 23	0 17.1	4												
25	2 7	19 24	13.1	8 2	6 20	12 9	7 2	5 21	1 8	7 1	4 21	49 6	6 1	22.2	22 37	4 5	20.0	23.1	23 25	3 5														
26	3 19.1	19 50	3 9	3 9	20 38	14.1	10.8	3 8	21 27	15.0	7 2	7 22	15 8	6 2	6 23	3 6	13.6	2 4	23 51	5 5														
27	15.5	4 20	17 5	9 4	20.3	21 5	4 8	4 21.2	21 53	2 11.8	4 22.0	22 41	16.0	12.7	4 9	23 29	9 6	3 8	24 17	7 14.6														
28	6 8	20 44	8 10.0	16.6	6 21	32 6	9 17.6	5 22	20 4	8 18.5	4 23	7 3	7 19.5	23.3	23 55	17.1	7 5	24.1	24 43	9 6														
29	7 20.1	21 12	14.0	1 7	21.0	21 59	8 11.0	7 9	22 46	7 9	7 7	23 34	5 8	6 6	24 21	3 7	20.6	5 25	9 18.1	6														
30	9 5	21 39	2 1	9 4	22 26	15.1	0 8	22.2	23 14	9 9	8 23.1	24 1	7 9	8 24.0	24 48	5 13.8	8 8	25 35	4 7															
31	16.0	8 22	7 5	2 17.0	7 22	54 3	1 18.0	6 23	41 16.1	12.0	19.0	5 24	28 9	9 20.0	3 25	15 8	8 9	25.2	26 2	6 7														
32	2 21.2	22 36	7 2	2 22.1	23 23	6 1	1 23.0	24 9	4 1	1 8 24	56 17.2	13.0	1 7	25 43	18.0	9 21.1	6 26	30 8	14.8															
33	3 6	23 5	15.0	10.3	3 5	23 51	8 2	3 3	24 38	6 1	3 24.2	25 24	4 0	3 25.1	26 11	2 9	3 26.0	26 57	19.0	8														
34	5 22.0	23 34	2 4	5 9	24 21	16.1	11.3	5 7	25 7	9 2	5 6	25 53	7 1	5 5	26 39	5 14.0	4 4	27 25	3 9															
35	7 4	24 4	5 4	6 23.3	24 50	3 3	6 24.2	25 36	17.1	2 6 25.0	26 22	9 1	6 6	27 8	7 0	6 8	27 54	5 9																
36	8 8	24 35	8 5	8 7	25 20	6 4	8 6	26 6	4 12.3	8 5	26 52	18.2	2 8	26.3	27 37	19.0	1 8	27.2	28 23	8 15.0														
37	17.0	23.3	25 5	16.0	6 18.0	24.2	25 51	8 5	19.0	25.0	26 36	6 4	20.0	9 27	22 4	13.3	21.0	8 28	7 2	1 22.0	6 28	53 20.0	0											
38	2 7	25 37	2 10.6	2 6	26 22	17.1	5 2	5 27	7 9	4 2 26.4	27 52	7 3	2 27.2	28 37	5 14.2	2 28.1	29 23	2 1																
39	4 24.2	26 9	5 7	4 25.1	26 54	4 11.6	4 26.0	27 39	18.2	5 4 9	28 23	9 4	4 4	7 29	8 7	3 4	6 29	53 4	2															
40	6 8	26 42	8 8	6 6	27 26	6 7	6 5	28 11	4 6	6 27.4	28 55	19.2	4 6	28.2	29 39	20.0	3 6	29.1	0 24	7 15.2														
41	8 25.3	27 15	17.1	9 8	26.1	27 59	9 7	8 27.0	28 43	7 12.6	8 9	29 27	5 5	8 7	0 11	3 4	8 6	0 55	21.0	3														
42	18.0	8 27	49 4	9 19.0	7 28	33 18.2	8 20.0	5 29	17 19.0	7 21.0	28.4	0 0	8 13.6	22.0	29.2	0 44	5 14.4	23.0	0 1	1 28	2 3													
43	3 26.4	28 24	7 11.0	3 27.2	29 7	5 9	3 28.1	29 51	3 8	3 9	0 34	20.0	6 3	8 1	117 8	5 3	6 2	1 5	4															
44	5 9	28 59	18.0	1 5	8 29	42 8	12.0	5 7	0 25	6 8	5 29.5	1 8	3 7	5 0.3	1 51	21.1	6 5	1.2	2 34	8 15.5														
45	7 27.5	29 36	3 2	7 28.4	0 18	19.1	1 7	29.3	1 1	8 9	7 0.1	1 43	6 8	8 9	2 26	4 7	8 8	3 8	22.1	5														
46	9 28.1	0 13	6 3	9 29.0	0 55	4 2	9 9	1 37	20.1	13.0	9 7	2 19	9 9	23.0	1.5	3 1	7 14.7	24.0	2.4	3 44	4 6													
47	19.1	8 0	51 19.0	11.3	20.2	6 1	1 32	7 2	21.2	0.5	2 14	4 0	22.2	1.3	2 56	21.2	14.0	3 2.1	3 38	22.0	8 3	3.0	4 19	7 7										
48	4 29.4	1 30	3 4	5 0.3	2 11	20.0	12.3	5 1.1	2 52	7 1	5 2.0	3 34	5 0	6 8	4 15	3 9	6 6	4 56	23.0	15.8														
49	7 0.1	2 9	7 5	8 9	2 50	3 4	8 8	3 31	21.0	2 8	6 4	12 8	1 9	3.5	4 53	6 9	9 4.3	5 33	3 8															
50	20.0	8 2	50 20.0	6 21.1	1.6	3 31	7 5	22.1	2.5	4 11	4 3	23.1	3.3	4 51	22.2	2 24.2	4.1	5 32	9 15.0	25.2	5.0	6 12	6 9											
51	3 1.5	3 32	3 11.7	4 2.4	4 12	21.0	5 4	3.2	4 52	7 13.4	5 4.1	5 32	5 3	6 8	6 11	23.2	1 6	7 6	51 9	9														
52	7 2.3	4 15	7 8	8 3.2	4 55	4 12.6	8 4.0	5 34	22.1	4 9	9 6	13	9 14.3	9 5.6	6 52	6 1	26.0	6.5	7 32	24.3	16.0													
53	21.1	3.2	5 0	21.1	9 22.2	4.1	5 38	8 7	23.2	9 6	17 5	5 24.3	5.7	6 56	23.2	4 25.3	6.4	7 34	9 2	4 7.3	8 13	6 1												
54	5 4.1	5 45	5 12.0	6 5.0	6 23	22.2	8 6	5.8	7 2	9 6	7 6.6	7 40	6 5	7 7.3	8 18	24.3	15.3	8 8.1	8 56	25.0	2													
55	9 5.1	6 32	9 1	23.0	5.9	7 10	6 9	24.0	6.7	7 47	23.3	7 25.1	7.5	8 25	24.0	6 26.1	8.2	9 2	7 4	27.2	9.0	9 40	4 2											
56	22.4	6.1	7 21	22.3	2 5	6.9	7 57	23.0	13.0	5 7.7	8 34	7 8	6 8.5	9 11	4 7	6 9.2	9 48	25.1	5 7	10.0	10 25	8 3												

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H.	H. M. S. } $\Upsilon$ 17° SID. T. 1 2 4 0 } ARC 15° 40'.0 }					H. M. S. } $\Upsilon$ 18° 1 6 23 } 16° 35'.9 }					H. M. S. } $\Upsilon$ 19° 1 10 7 } 17° 31'.8 }					H. M. S. } $\Upsilon$ 20° 1 13 51 } 18° 27'.8 }					H. M. S. } $\Upsilon$ 21° 1 17 36 } 19° 24'.0 }					H. M. S. } $\Upsilon$ 22° 1 21 21 } 20° 20'.2 }																						
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3																		
22	20.6	23.0	22.59	17.5	15.3	21.6	23.8	23.49	18.4	16.2	22.5	24.7	24.38	19.3	17.2	23.5	25.6	25.27	20.1	18.1	24.4	26.4	26.16	21.0	19.1	25.4	27.3	27.5	21.9	20.1																		
23	7	3	23	24	7	3	7	24	24	13	6	3	7	25	25	2	5	2	6	9	25	51	3	2	6	8	26	40	2	1	5	6	27	29	22.1	1												
24	9	6	23	49	9	4	8	5	24	38	8	3	8	4	25	26	7	3	7	26	26	15	5	2	7	27	1	27	4	4	2	7	9	27	53	3	1											
25	21.0	24.0	24	14	18.1	4	22.0	8	25	19	0	3	9	7	25	51	9	3	9	5	26	39	7	2	8	4	27	28	6	2	8	28	3	28	17	5	2											
26	1	3	24	39	3	4	1	25	25	27	2	4	23.1	26.0	26	16	20.1	3	24.0	9	27	4	9	3	25.0	7	27	52	8	2	26.0	6	28	41	7	2												
27	3	6	25	5	6	15.5	2	5	25	53	4	16.4	2	4	26	41	3	17.4	2	27	27	29	21.1	18.3	1	28	1	28	17	22.0	19.3	1	9	29	5	8	20.2											
28	4	25	0	25	30	8	5	4	8	26	18	6	5	4	4	7	27	6	5	4	3	6	27	54	3	3	3	4	28	42	2	3	3	29	3	29	30	23.0	2									
29	21.6	3	25	56	19.0	6	22.5	26	26	44	8	5	5	27	1	27	32	7	4	5	9	28	19	5	4	5	8	29	7	4	3	4	6	29	55	2	3											
30	7	7	26	23	2	6	7	6	27	10	20.1	6	7	4	27	57	9	5	6	28	3	28	45	7	4	6	29	1	29	32	6	4	26.6	26	0	20	4	3										
31	9	26	1	26	49	4	7	9	9	27	36	3	16.6	8	8	28	24	21.1	5	8	6	29	11	9	18.4	8	5	29	58	8	4	7	0	4	45	6	3											
32	22.1	4	27	16	6	15.7	23.0	27	3	28	3	5	6	24.0	28	1	28	50	3	17.6	25.0	29	0	29	37	22.1	5	26.0	9	0	24	23	0	19.4	9	7	1	11	8	20.4								
33	2	8	27	44	9	8	2	7	28	30	7	7	2	5	29	17	6	6	2	4	0	4	4	5	1	0	2	0	50	2	5	27.1	1.1	1	37	24	0	4										
34	4	27	2	28	12	20.1	8	4	28	1	28	58	9	7	3	9	29	44	8	7	4	8	0	31	6	6	3	6	1	17	4	5	3	5	2	4	2	4										
35	6	6	28	40	4	9	6	5	29	26	21.2	16.8	5	29	3	0	12	22.0	7	5	0	2	0	58	8	18.6	5	1	0	144	6	5	5	9	2	30	4	5										
36	8	28	0	29	9	6	9	8	9	29	54	4	8	7	7	0	40	2	7	7	6	1	26	23.0	6	7	7	5	2	12	8	6	7	2	4	2	58	6	5									
37	23.0	5	29	38	8	16.0	24.0	29	3	0	23	6	9	9	0	2	1	9	4	17.8	9	1	0	1	54	2	7	9	9	2	40	24	0	19.6	9	8	3	25	8	20.5								
38	2	9	0	7	21.0	0	2	8	0	53	8	9	25.1	6	1	38	6	8	26.1	5	2	23	4	7	27.1	2	4	3	8	2	7	28.1	3	2	53	25	0	6										
39	4	29	4	0	38	2	1	4	0	3	122	22.0	17.0	3	1	1	2	7	8	9	3	2	0	2	52	6	18.8	3	8	3	37	4	7	3	7	4	22	2	6									
40	6	9	1	8	5	1	6	8	1	53	3	0	6	6	2	37	23	1	9	5	5	3	22	9	8	5	3	3	4	6	7	7	5	4	2	45	5	6										
41	8	0	4	14	0	7	2	8	1	3	224	5	1	8	2	1	3	8	3	18.0	8	3	0	3	52	24.1	9	7	8	4	3	6	9	19.8	7	6	5	20	7	20.7								
42	24.0	9	2	11	22	0	16.2	25.0	8	2	55	8	1	26.0	6	3	39	6	0	27.0	5	4	22	4	9	28.0	4	3	5	7	25.2	8	9	5	1	5	50	26.0	7									
43	3	1	5	244	3	3	3	3	2	3	27	23	1	2	2	3	2	4	11	9	1	2	4	0	4	54	6	19.0	2	9	5	38	4	9	29	2	7	6	21	2	7							
44	5	2	0	3	17	6	4	5	9	4	0	3	17.2	5	7	4	43	24.1	1	5	6	5	26	9	0	5	5	4	6	9	7	9	4	6	2	6	52	5	8									
45	7	6	3	51	9	4	7	7	3	5	433	6	3	7	4	3	5	16	4	2	7	5	1	5	58	25.2	1	7	6	0	6	41	9	20.0	6	8	7	24	7	20.8								
46	25.0	3	2	4	26	23	2	16.5	26.0	4	1	5	8	9	4	27.0	9	5	50	7	18.2	9	7	6	32	5	1	9	5	7	14	26	2	0	9	7	3	7	56	27	0	8						
47	3	8	5	1	5	6	3	7	5	43	24	2	4	3	5	5	6	24	9	3	25.2	6	3	7	6	7	2	29	2	7	1	7	48	4	1	0	2	9	8	29	3	9						
48	6	4	4	5	37	8	6	6	5	3	6	18	5	17.5	6	6	1	7	0	25.2	3	5	9	7	41	26	0	19.2	5	7	8	22	7	1	5	8	5	9	3	5	9							
49	9	5	1	6	14	24	1	7	9	9	6	55	8	5	9	7	7	36	5	4	8	7	6	8	16	3	3	8	8	3	57	27	0	1	8	9	2	9	38	8	21.0							
50	26.2	8	6	52	4	16	7	27	2	6	6	7	32	25.1	6	28	2	7	4	8	13	8	4	29	2	8	2	8	53	6	3	0	2	9	0	33	3	20.2	1	2	8	10	14	28	1	0		
51	6	6	5	7	31	7	8	6	7	3	8	11	4	7	6	8	1	8	51	26	1	18.5	6	9	9	30	9	4	6	7	10	10	6	2	6	10	8	10	50	4	1							
52	27.0	7	3	8	11	25	0	8	28	0	8	1	8	50	7	17	7	29	0	9	9	29	4	5	0	9	6	10	8	27	2	19	4	1	0	10	4	8	9	3	2	0	11	2	11	27	7	1
53	4	8	1	8	52	3	9	4	9	9	31	26	1	8	4	9	7	10	9	8	6	0	4	10	4	10	48	5	5	4	11	2	11	27	28	2	3	4	12	0	12	6	29	0	21	2		
54	8	9	9	34	7	17	0	8	9	7	10	12	4	8	8	10	5	10	50	27	1	7	8	11	2	11	28	8	5	8	12	0	12	6	5	20	4	9	8	12	45	3	3					
55	28.2	9	8	10	17	26	1	1	29	3	10	6	10	55	8	9	0	3	11	4	11	32	5	8	1	3	12	1	12	10	28	2	6	2	3	9	12	47	9	4	3	4	13	7	13	25	6	3
56	7	10	7	11	2	5	1	8	11	5	11	39	27	2	9	8	12	3	12	15	9	9	8	13	0	12	53	6	7	8	13	8	13	29	29	3	5	9	14	6	14	6	0	0	4			

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

6					UPPER MERIDIAN, CUSP OF 10th H.																																
H. M. S. SID. T. 1 21 21 } $\gamma$ ARC 20° 20' 2 } 22°					H. M. S. 1 25 6 } $\gamma$ 23° 21° 16' 6 }					H. M. S. 1 28 52 } $\gamma$ 24° 22° 13' }					H. M. S. 1 32 38 } $\gamma$ 25° 23° 9' 6 }					H. M. S. 1 36 25 } $\gamma$ 26° 24° 6' 3 }					H. M. S. 1 40 12 } $\gamma$ 27° 25° 3' 2 }												
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3							
Lat.	$\gamma$	$\pi$	$\varpi$	$\rho$	$\mu$	$\gamma$	$\pi$	$\varpi$	$\rho$	$\mu$	$\gamma$	$\pi$	$\varpi$	$\rho$	$\mu$	$\gamma$	$\pi$	$\varpi$	$\rho$	$\mu$	$\gamma$	$\varpi$	$\rho$	$\mu$	$\gamma$	$\varpi$	$\rho$	$\mu$	$\gamma$	$\varpi$	$\rho$	$\mu$					
22	25.4	27.3	27	5	21.9	20.1	26.3	28.2	27	55	22.8	21.0	27.3	29.0	28	45	23.7	22.0	28.2	29.9	29	34	24.5	23.0	29.1	0.8	0	24	25.4	24.0	0.1	1.6	1	14	26.3	24.9	
23	5	6	27	29	22.1	1	5	5	28	18	9	1	4	4	29	8	8	0	3	0.2	29	57	7	0	3	1.1	0	46	6	0	2	9	1	36	5	9	
24	7	9	27	53	3	1	6	8	28	42	23.1	1	5	7	29	31	24.0	1	5	5	0	20	9	0	4	4	1	9	8	0	4	2.3	1	59	7	25.0	
25	8	28.3	28	17	5	2	8	29.1	29	6	3	1	7	$\varpi$	29	54	2	1	6	9	0	43	25.1	1	6	7	1	32	9	0	5	6	2	22	8	0	
26	26.0	6	28	41	7	2	9	5	29	30	5	1	8	0.3	0	18	4	1	8	1.2	1	7	3	1	7	2.1	1	56	26.1	0	7	9	2	45	27.0	0	
27	1	9	29	5	8	20.2	27.1	8	29	54	7	21.2	28.0	7	0	42	6	22.1	29.0	5	1	31	4	23.1	$\pi$	9	4	2	19	3	24.0	9	3.2	3	8	2	0
28	3	29.3	29	30	23.0	2	2	0.1	0	18	9	2	1	1.0	1	6	7	1	1	9	1	54	6	1	0.1	7	2	43	5	1	1.0	6	3	31	4	0	
29	4	6	29	55	2	3	4	5	0	43	24.1	2	3	4	1	31	9	2	3	2.2	2	19	8	1	2	3.1	3	7	7	1	2	9	3	55	5	25.0	
30	26.6	$\varpi$	0	20	4	3	5	9	1	8	3	3	5	7	1	55	25.1	2	4	6	2	43	26.0	2	4	4	4	3	31	8	1	4	4.3	4	19	7	1
31	7	0.4	0	45	6	3	7	1.2	1	33	5	3	7	2.1	2	20	3	2	6	9	3	8	2	2	6	8	3	55	27.0	1	5	7	4	43	9	1	
32	9	7	1	11	8	20.4	9	6	1	58	7	21.3	8	4	2	45	5	22.2	8	3.3	3	32	4	23.2	8	4.2	4	20	2	24.1	7	5.0	5	7	28.1	1	
33	27.1	1.1	1	37	24.0	4	28.1	2.0	2	24	9	3	29.0	8	3	11	7	3	$\pi$	7	3	58	6	2	1.0	5	4	45	4	2	9	4	5	32	2	1	
34	3	5	2	4	2	4	2	4	2	50	25.1	4	2	3.2	3	37	9	3	0.2	4.1	4	23	7	2	1	9	5	10	6	2	2.1	8	5	57	4	25.1	
35	5	9	2	30	4	5	4	8	3	17	3	4	4	6	4	3	26.1	3	4	5	4	49	9	3	3	5.3	5	36	8	2	3	6.2	6	22	6	1	
36	7	2.4	2	58	6	5	6	3.2	3	43	5	4	6	4.0	4	30	3	3	6	9	5	16	27.1	3	5	7	6	2	28.0	2	5	6	6	48	8	2	
37	9	8	3	25	8	20.5	8	6	4	11	6	21.5	8	4	4	57	5	22.4	8	5.3	5	42	3	23.3	7	6.1	6	28	2	24.2	7	7.0	7	14	29.0	2	
38	28.1	3.2	3	53	25.0	6	29.0	4.1	4	38	8	5	$\pi$	9	5	24	7	4	1.0	7	6	9	6	3	9	6	6	55	4	3	9	4	7	40	2	2	
39	3	7	4	22	2	6	2	5	5	7	26.0	5	0.2	5.4	5	52	9	4	2	6.2	6	37	8	4	2.1	7.1	7	22	6	3	3.1	9	8	7	4	25.2	
40	5	4.2	4	51	5	6	5	5.0	5	35	3	6	4	8	6	20	27.1	5	4	7	7	5	28.0	4	4	5	7	49	8	3	3	8.4	8	34	6	2	
41	7	6	5	20	7	20.7	7	5	6	5	5	6	7	6.3	6	49	3	5	6	7.1	7	33	2	4	6	8.0	8	18	29.0	3	6	8	9	2	8	3	
42	9	5.1	5	50	26.0	7	9	6.0	6	34	8	21.6	9	8	7	18	5	22.5	9	6	8	2	4	23.4	8	5	8	46	2	24.4	8	9.3	9	30	$\mu$	3	
43	29.2	7	6	21	2	7	0.2	5	7	4	27.0	7	1.1	7.4	7	48	8	6	2.1	8.1	8	32	7	5	3.1	9.0	9	15	4	4	4.1	8	9	59	0.2	3	
44	4	6.2	6	52	5	8	4	7.0	7	35	3	7	4	9	8	18	28.0	6	4	7	9	2	9	5	4	5	9	45	6	4	3	10.4	10	28	4	25.3	
45	6	8	7	24	7	20.8	6	6	8	6	5	7	6	8.5	8	49	3	6	7	9.2	9	32	29.1	5	7	10.1	10	15	8	4	6	9	10	58	6	3	
46	9	7.3	7	56	27.0	8	9	8.1	8	38	7	8	9	9.0	9	21	5	7	9	8	10	3	3	5	9	7	10	46	$\mu$	0.1	5	9	11.5	11	28	8	4
47	$\pi$	0.2	9	8	29	3	9	1.2	7	9	11	9	21.8	2.2	6	9	53	7	22.7	3.2	10.4	10	35	5	23.6	4.2	11.2	11	17	3	24.5	5.2	12.0	11	59	1.0	4
48	5	8.5	9	3	5	9	5	9.3	9	45	28.2	8	5	10.2	10	26	29.0	7	5	11.0	11	8	7	6	5	8	11	49	6	5	5	6	12	31	3	25.4	
49	8	9.2	9	38	8	21.0	8	10.0	10	19	5	9	8	8	11	0	3	8	9	6	11	41	$\mu$	6	9	12.4	12	22	9	5	8	13.2	13	3	5	4	
50	1.2	8	10	14	28.1	0	2.2	6	10	54	8	9	3.2	11.4	11	35	6	8	4.2	12.2	12	15	0.3	6	5.2	13.0	12	56	1.1	5	6.2	8	13	36	8	4	
51	6	10.5	10	50	4	1	6	11.3	11	30	29.1	9	6	12.1	12	10	9	22.8	6	9	12	50	6	7	6	7	13	30	4	6	6	14.5	14	10	2.1	5	
52	2.0	11.2	11	27	7	1	3.0	12.0	12	7	4	22.0	4.0	8	12	46	$\mu$	0.2	9	5.0	13.6	13	26	9	23.7	6.0	14.4	14	5	6	24.6	7.0	15.2	14	45	3	25.5
53	4	12.0	12	6	29.0	21.2	4	8	12	44	7	0	4	13.6	13	23	5	9	4	14.4	14	2	1.2	7	4	15.1	14	41	9	6	4	9	15	20	6	5	
54	9	8	12	45	3	3	9	13.6	13	23	$\mu$	1	9	14.4	14	1	8	23.0	9	15.2	14	40	5	8	9	9	15	18	2.2	7	9	16.7	15	57	9	5	
55	3.4	13.7	13	25	6	3	4.4	14.5	14	3	0.3	1	5.4	15.2	14	40	1.1	0	6.4	16.0	15	17	8	8	7.4	16.7	15	56	5	7	8.4	17.5	16	34	3.2	5	
56	9	14.6	14	6	$\mu$	4	9	15.4	14	43	7	2	9	16.1	15	21	4	1	9	9	15	58	2.1	9	8.0	17.5	16	35	8	7	9.0	18.4	17	13	5	6	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 1 44 0 } $\varphi$ ARC 26° 0'.1 } 28°					H. M. S. 1 47 49 } $\varphi$ 29° 26° 57'.2 } 29°					H. M. S. 1 51 38 } $\delta$ 0° 27° 54'.5 } 30°					H. M. S. 1 55 27 } $\delta$ 1° 28° 51'.9 } 31°					H. M. S. 1 59 18 } $\delta$ 2° 29° 49'.4 } 32°					H. M. S. 2 3 8 } $\delta$ 3° 30° 47'.1 } 33°				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	1.0	2.5	2 4	27.2	25.9		1.9	3.4	2 54	28.1	26.9	2.9	4.2	3 44	29.0	27.9	3.8	5.1	4 35	0.0	28.9	4.8	6.0	5 25	0.9	29.8	5.7	6.8	6 16	1.8	0.8
23	2	8	2 26	4	9		2.1	7	3 16	3	9	3.0	5	4 6	2	9	4.0	4	4 56	1	9	9	3	5 47	1.0	8	8	7.1	6 37	9	8
24	3	3.1	2 48	5	9		2	4.0	3 38	5	9	2	9	4 28	4	9	1	7	5 18	3	9	5.1	6	6 8	2	8	6.0	5	6 58	2.1	8
25	5	5	3 11	7	9		4	3	4 0	6	9	3	5.2	4 50	5	9	3	6.0	5 40	4	9	2	9	6 30	3	8	2	8	7 20	2	8
26	7	8	3 34	9	26.0		6	7	4 23	8	9	5	5	5 12	7	27.9	4	4	6 2	0.6	9	4	7.2	6 51	5	8	3	8.1	7 41	3	8
27	8	4.1	3 56	28.1	0		7	5.0	4 45	9	9	6	8	5 35	8	9	4.6	7	6 24	7	28.9	5	6	7 13	1.6	29.8	6.5	4	8 3	5	0.8
28	2.0	5	4 20	2	0		9	3	5 8	29.1	27.0	8	6.2	5 57	9		8	7.0	6 46	9	9	7	9	7 35	7	8	6	8	8 25	2.6	8
29	1	8	4 43	4	0		3.0	7	5 31	3	0	4.0	5	6 20	0.1	9	9	4	7 9	1.0	9	9	8.2	7 58	9	8	8	9.1	8 47	8	8
30	3	5.2	5 7	6	0		2	6.0	5 55	4	0	2	9	6 43	3	27.9	5.1	7	7 32	2	9	6.1	6	8 20	2.0	8	7.0	5	9 9	9	8
31	5	5	5 31	7	26.0		4	4	6 18	6	0	3	7.2	7 6	5	9	3	8.1	7 55	3	9	2	9	8 43	2	8	2	8	9 31	3.1	8
32	7	9	5 55	9	0		6	7	6 42	8	0	5	6	7 30	6	9	5	4	8 18	5	28.9	4	9.3	9 6	4	29.8	4	10.2	9 54	2	0.8
33	9	6.2	6 19	29.1	1		8	7.1	7 6	9	27.0	7	8.0	7 54	8	28.0	7	8	8 41	6	9	6	7	9 29	5	8	6	5	10 17	4	8
34	3.1	6	6 44	3	1		4.0	5	7 31	0.1	0	9	3	8 18	1.0	0	9	9.2	9 5	8	9	8	10.0	9 52	7	8	8	9	10 40	5	8
35	3	7.0	7 9	5	1		2	9	7 55	3	0	5.1	7	8 42	1	0	6.1	6	9 29	2.0	9	7.0	4	10 16	8	8	8.0	11.3	11 3	7	8
36	5	4	7 34	7	26.1		4	8.3	8 20	5	0	3	9.1	9 7	3	0	3	10.0	9 54	2	9	2	8	10 40	3.0	8	2	7	11 27	9	8
37	7	8	8 0	9	1		6	7	8 46	6	0	5	5	9 32	4	0	5	4	10 18	3	28.9	4	11.2	11 4	2	29.8	4	12.1	11 51	4	0.8
38	9	8.3	8 26	9	1		8	9.1	9 12	8	27.1	7	10.0	9 57	6	28.0	7	8	10 43	5	9	6	7	11 29	4	8	6	5	12 15	1	8
39	4.1	7	8 52	0.2	1		5.0	6	9 38	1.0	1	6.0	4	10 23	8	0	9	11.3	11 9	7	9	9	12.1	11 54	5	8	8	9	12 40	3	8
40	3	9.2	9 19	4	2		2	10.0	10 4	2	1	2	9	10 49	2.0	0	7.1	7	11 34	9	9	8.1	5	12 20	7	8	9.0	13.3	13 5	5	8
41	5	7	9 47	6	26.2		5	4	10 31	4	1	4	11.3	11 16	2	0	4	12.2	12 1	3.1	9	4	13.0	12 46	9	8	3	7	13 31	7	8
42	8	10.2	10 14	8	2		7	9	10 59	6	1	7	8	11 43	4	0	7	7	12 27	2	28.9	6	5	13 12	4.1	29.8	6	14.2	13 57	8	0.8
43	5.0	7	10 43	1.0	2		6.0	11.4	11 26	8	27.1	7.0	12.3	12 10	6	28.0	9	13.2	12 55	4	9	9	14.0	13 39	3	8	9	7	14 23	5.0	8
44	3	11.2	11 12	2	2		3	9	11 55	2.0	1	3	9	12 38	8	0	8.2	7	13 22	6	9	9.2	5	14 6	4	8	10.1	15.2	14 50	2	8
45	5	7	11 41	4	2		5	12.5	12 24	2	1	5	13.4	13 7	3.0	0	5	14.2	13 50	8	9	4	15.0	14 33	6	8	4	7	15 17	4	8
46	8	12.3	12 11	6	26.2		8	13.0	12 53	4	1	8	9	13 36	2	0	8	7	14 19	4.0	9	7	5	15 2	8	8	7	16.3	15 45	6	8
47	6.1	9	12 41	8	3		7.1	6	13 23	7	2	8.1	14.5	14 6	4	0	9.1	15.3	14 48	3	28.9	10.0	16.1	15 30	5.0	29.8	11.0	9	16 13	8	0.7
48	4	13.4	13 12	2.0	3		4	14.2	13 54	9	27.2	4	15.1	14 36	6	28.0	4	9	15 18	5	9	3	7	16 0	2	8	3	17.5	16 42	6.0	7
49	7	14.0	13 44	3	3		7	8	14 26	3.2	2	8	6	15 7	8	0	7	16.4	15 48	7	9	6	17.2	16 30	4	8	6	18.0	17 11	2	7
50	7.1	6	14 17	6	3		8.1	15.4	14 58	4	2	9.1	16.2	15 39	4.1	0	10.1	17.0	16 19	9	9	11.0	8	17 0	6	8	12.0	6	17 41	4	7
51	5	15.3	14 50	8	26.3		5	16.1	15 31	6	2	5	8	16 11	3	1	5	7	16 51	5.1	29.0	4	18.5	17 32	8	8	4	19.2	18 12	6	7
52	9	16.0	15 25	3.0	4		9	8	16 4	8	27.2	9	17.5	16 44	5	28.1	9	18.4	17 24	3	0	8	19.2	18 4	6.0	29.8	8	9	18 44	8	0.7
53	8.3	7	16 0	3	4		9.3	17.5	16 39	4.0	2	10.3	18.2	17 18	7	1	11.3	19.1	17 57	6	0	12.3	9	18 37	2	8	13.2	20.6	19 16	7.0	7
54	8	17.5	16 35	6	4		8	18.2	17 14	3	2	8	19.0	17 52	5.0	1	8	18	18 31	8	0	8	20.6	19 10	5	8	7	21.3	19 49	2	7
55	9.3	18.3	17 12	9	4		10.3	19.0	17 50	6	2	11.3	8	18 28	3	1	12.3	20.5	19 6	6.1	0	13.3	21.3	19 45	8	8	14.2	22.1	20 23	5	7
56	9	19.1	17 50	4.2	5		9	8	18 27	9	3	9	20.6	19 5	6	2	9	21.3	19 42	4	0	9	22.1	20 20	7.0	8	8	9	20 58	7	7

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 2 3 8 } 3° ARC 30° 47'.1 } 3°					H. M. S. 2 7 0 } 4° 31° 44'.9 } 4°					H. M. S. 2 10 52 } 5° 32° 42'.9 } 5°					H. M. S. 2 14 44 } 6° 33° 41' } 6°					H. M. S. 2 18 37 } 7° 34° 39'.4 } 7°					H. M. S. 2 22 31 } 8° 35° 37'.8 } 8°				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	5.7 6.8 6.16 1.8 0.8	6.7 7.7 7.7 2.7 1.8	7.6 8.6 7.58 3.6 2.8	8.6 9.5 8.49 4.5 3.8	9.5 10.4 9.41 5.5 4.8	10.4 11.2 10.33 6.4 5.8																									
23	8 7.1 6.37 9 8	8 8.0 7.28 8 8	8 9 8.19 8 8	7 8 9.10 7 8	6 7.10 1 6 8	6 5.10.53 5 8																									
24	6.0 5 6.58 2.1 8	7.0 3 7.49 3.0 8	9 9.2 8.40 9 8	9 10.1 9.30 8 8	8 11.0 10.21 7 8	7 8.11.12 6 8																									
25	2 8 7.20 2 8	2 6 8.10 1 8	8.1 5 9 0 4.0 8	9.0 4 9.51 9 8	10.0 3 10.42 8 8	9 12.1 11.32 8 8																									
26	3 8.1 7.41 3 8	3 9.0 8.31 2 8	2 8 9.21 1 8	2 7.10.12 5.1 8	1 6.11 2 6.0 7	11.1 5.11.53 9 7																									
27	6.5 4 8 3 5 0.8	5 3 8.53 4 1.8	4 10.2 9.43 3 2.8	4 11.0 10.32 2 3.7	3 9.11.23 1 4.7	2 8.12.13 7.0 5.7																									
28	6 8 8.25 2.6 8	6 6 9.14 3.5 8	6 5.10 4 4 8	5 4.10.53 3 7	5 12.2 11.43 2 7	4 13.1 12.33 1 7																									
29	8 9.1 8.47 8 8	8 10.0 9.36 7 8	8 8.10.25 4.6 8	7 7.11.14 5 7	6 6.12 4 3 7	6 4.12.54 2 7																									
30	7.0 5 9 9 9 8	8.0 3 9.58 8 8	9 11.2 10.47 7 7	9 12.0 11.36 5.6 7	8 9.12.25 6.5 7	8 8.13.14 4 7																									
31	2 8 9.31 3.1 8	2 7.10.20 9 8	9.1 5.11 9 8 7	10.1 4.11.57 7 7	11.0 13.2 12.46 6 7	9 14.1 13.35 7.5 6																									
32	4 10.2 9.54 2 0.8	4 11.0 10.42 4.1 1.8	3 9.11.31 5.0 2.7	2 7.12.19 9 3.7	2 6.13 8 7 4.7	12.1 4.13.56 6 5.6																									
33	6 5.10.17 4 8	5 4.11 5 2 8	5 12.2 11.53 1 7	4 13.1 12.41 6.0 7	4 9.13.29 9 6	3 8.14.18 8 6																									
34	8 9.10.40 5 8	7 8.11.28 4 8	7 6.12.15 3 7	6 5.13 3 1 7	6 14.3 13.51 7.0 6	5 15.2 14.39 9 6																									
35	8.0 11.3 11 3 7 8	9 12.2 11.51 6 7	9 13.0 12.38 4 7	8 9.13.25 3 6	8 7.14 13 2 6	7 6.15 1 8.0 6																									
36	2 7.11.27 9 8	9.1 6.12.14 7 7	10.1 4.13 1 5.6 7	11.0 14.3 13.48 4 6	12.0 15.1 14.35 3 6	9 9.15.23 2 5																									
37	4 12.1 11.51 4.0 0.8	3 13.0 12.38 9 1.7	3 8.13.24 7 2.7	2 7.14 11 6.6 3.6	2 5.14.58 5 4.6	13.1 16.3 15.45 3 5.5																									
38	6 5.12.15 1 8	6 4.13 2 5.0 7	5 14.2 13.48 9 7	5 15.1 14.34 8 6	4 9.15.21 7.6 6	3 7.16 8 4 5																									
39	8 9.12.40 3 8	8 8.13.26 2 7	7 6.14.12 6.1 7	7 5.14.58 9 6	6 16.3 15.44 8 5	6 17.2 16.31 8.5 5																									
40	9.0 13.3 13 5 5 8	10.0 14.2 13.51 4 7	11.0 15.1 14.36 2 7	9 9.15.22 7.0 6	9 7.16 8 9 5	8 6.16.54 7 5																									
41	3 7.13.31 7 8	3 7.14.16 6 7	2 5.15 1 4 6	12.2 16.3 15.46 1 6	13.1 17.2 16.32 8.1 5	14.1 18.0 17.17 8 4																									
42	6 14.2 13.57 8 0.8	5 15.1 14.41 8 1.7	5 16.0 15.26 6 2.6	4 8.16.11 3 3.5	4 6.16.56 2 4.5	3 5.17.41 9.0 5.4																									
43	9 7.14.23 5.0 8	8 6.15 7 9 7	8 4.15.52 8 6	7 17.3 16.36 5 5	7 18.1 17.21 4 5	6 9.18 5 1 4																									
44	10.1 15.2 14.50 2 8	11.1 16.1 15.34 6.1 7	12.1 9.16.18 9 6	13.0 7.17 2 7 5	14.0 6.17.46 5 4	9 19.4 18.30 3 4																									
45	4 7.15.17 4 8	4 6.16 0 2 7	4 17.4 16.44 7.0 6	3 18.2 17.28 8 5	3 19.1 18.12 6 4	15.2 9.18.55 5 3																									
46	7 16.3 15.45 6 8	7 17.1 16.28 4 7	7 9.17.11 2 6	6 7.17.54 8.0 5	6 6.18.38 7 4	5 20.4 19.21 6 3																									
47	11.0 9.16.13 8 0.7	12.0 7.16.56 6 1.7	13.0 18.5 17.38 4 2.6	9 19.3 18.21 1 3.5	9 20.1 19 4 9 4.4	8 9.19.47 8 5.3																									
48	3 17.5 16.42 6.0 7	3 18.2 17.24 8 6	3 19.0 18 6 5 6	14.2 8.18.48 3 4	15.2 7.19.31 9.1 3	16.1 21.5 20.14 10.0 3																									
49	6 18.0 17.11 2 7	6 8.17.53 7.0 6	6 6.18.35 7 5	5 20.4 19.16 5 4	5 21.2 19.58 3 3	4 22.0 20.41 2 2																									
50	12.0 6.17.41 4 7	13.0 19.4 18.22 2 6	9 20.2 19 4 9 5	9 21.0 19.45 7 4	8 8.20.27 5 3	8 6.21 8 3 2																									
51	4 19.2 18.12 6 7	4 20.0 18.53 4 6	14.3 8.19.33 8.1 5	15.3 6.20.14 9 4	16.2 22.4 20.55 7 3	17.2 23.2 21.36 4 2																									
52	8 9.18.44 8 0.7	8 7.19.24 6 1.6	7 21.5 20 4 3 2.5	7 22.3 20.44 9.1 3.4	6 23.0 21.25 9 4.2	6 8.22 5 6 5.2																									
53	13.2 20.6 19.16 7.0 7	14.2 21.4 19.55 8 6	15.2 22.2 20.35 5 5	16.1 9.21.15 3 3	17.1 7.21.55 10.1 2	18.0 24.4 22.35 8 1																									
54	7 21.3 19.49 2 7	7 22.1 20.28 8.0 6	7 9.21 7 7 5	6 23.6 21.47 5 3	6 24.4 22.26 3 2	4 25.1 23 5.11.0 1																									
55	14.2 22.1 20.23 5 7	15.2 8.21 1 3 6	16.2 23.6 21.40 9.0 4	17.1 24.3 22.19 7 3	18.1 25.1 22.58 5 2	19.0 8.23.36 2 1																									
56	8 9.20.58 7 7	8 23.6 21.36 5 6	8 24.4 22.14 2 4	7 25.0 22.52 9 3	7 8.23.30 8 1	5 26.5 24 8 4 1																									

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 2 26 26 } 8 ARC 36° 36'.5 } 9°					H. M. S. 2 30 21 } 8 10° 37° 35'.3 } 10°					H. M. S. 2 34 17 } 8 11° 38° 34'.3 } 11°					H. M. S. 2 38 14 } 8 12° 39° 33'.4 } 12°					H. M. S. 2 42 11 } 8 13° 40° 32'.8 } 13°					H. M. S. 2 46 9 } 8 14° 41° 32'.3 } 14°				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	11.3	12.1	11 25	7.3	6.8	12.3	13.0	12 17	8.3	7.8	13.2	13.9	13 9	9.2	8.8	14.1	14.8	14 1	10.2	9.8	15.1	15.7	14 54	11.1	10.8	16.0	16.5	15 47	12.1	11.8	
23	5	4 11 44	4	8	4	3 12 36	4	8	4	14.2	13 28	3	8	3	15.1	14 20	3	8	2	16.0	15 12	2	8	2	8	16	5	1	8		
24	7	7 12 4	6	7	6	6 12 55	5	7	5	5 13 47	4	8	5	4	14 39	4	7	4	3	15 30	3	7	3	17.1	16 23	2	7				
25	8	13.0	12 23	7	7	8 9 13 14	6	7	7	8 14 6	5	7	6	7	14 57	5	7	5	6	15 49	4	7	5	4	16 41	3	7				
26	12.0	3 12 43	8	7	9	14.2	13 34	8.7	7	9	15.1	14 25	9.6	7	8	16.0	15 16	10.6	7	7	9	16 8	5	7	6	7	16 59	4	7		
27	2	6 13 3	9	6.7	13.1	5 13 54	8	7.7	14.0	4 14 44	8	8.7	15.0	3 15 35	7	9.7	9	17.2	16 26	11.6	10.7	8	18.0	17 18	12.5	11.6					
28	3	14.0	13 23	8.0	7	3 8 14 13	9	7	2	7 15 4	9	6	1	6 15 54	8	6	16.1	5 16 45	7	6	17.0	4 17 36	6	6							
29	5	3 13 43	2	6	4	15.2	14 33	9.1	6	4	16.0	15 23	10.0	6	3	9 16 14	9	6	2	8 17 4	8	6	2	7	17 55	7	6				
30	7	6 14 4	3	6	6	5 14 53	2	6	6	4 15 43	1	6	5	17.2	16 33	11.0	6	4	18.1	17 23	9	5	3	19.0	18 13	8	5				
31	9	15.0	14 24	4	6	8 8 15 14	3	6	7	7 16 3	2	6	7	6 16 53	1	5	6	4	17 42	12.0	5	5	3	18 32	9	5					
32	13.1	3 14 45	8.5	6.6	14.0	16.2	15 34	4	7.6	9	17.0	16 23	3	8.5	9	9 17 13	2	9.5	8	8 18 2	1	10.5	7	7	18 52	13.0	11.4				
33	3	7 15 6	7	6	2	5 15 55	9.5	5	15.1	4 16 43	4	5	16.1	18.3	17 33	3	5	17.0	19.1	18 21	2	4	9	20.0	19 11	1	4				
34	5	16.0	15 27	8	5	4 9 16 16	6	5	3	7 17 4	10.5	5	3	6 17 53	4	4	2	5	18 41	3	4	18.1	3	19 30	2	4					
35	7	4 15 49	9	5	6	17.3	16 37	8	5	5 18.1	17 25	7	4	5	19.0	18 13	11.5	4	4	9 19 1	4	4	3	7	19 50	3	3				
36	9	8 16 10	9.1	5	8	6 16 58	9	5	7	5 17 46	8	4	7	4 18 34	7	9.4	6	20.2	19 22	12.5	3	5	21.1	20 10	4	3					
37	14.1	17.2	16 32	2	6.5	15.0	18.0	17 20	10.0	7.4	9	9 18 7	9	8.4	9	7 18 55	8	3	8	6 19 42	7	10.3	8	5	20 30	13.5	11.2				
38	3	6 16 55	3	4	2	4 17 41	1	4	16.2	19.3	18 29	11.0	3	17.1	20.1	19 16	9	3	18.0	21.0	20 3	8	2	19.0	9	20 51	6	2			
39	5	18.0	17 17	5	4	5 8 18 4	2	4	4	7 18 50	2	3	3	5 19 37	12.0	3	3	4	20 24	9	2	2	22.3	21 12	8	2					
40	8	4 17 40	9.6	4	7	19.3	18 26	4	3	6	20.1	19 12	3	3	6	9 19 59	2	9.2	5	8	20 45	13.0	2	5	7	21 33	9	1			
41	15.0	9 18 3	8	4	16.0	7 18 49	10.5	7.3	9	5 19 35	4	8.2	8	21.4	20 21	3	2	8	22.2	21 7	1	1	7	23.1	21 54	14.0	11.1				
42	3	19.3	18 26	9	6.3	2	20.1	19 12	6	3	17.2	21.0	19 58	11.6	2	18.1	8	20 43	4	1	19.0	6	21 29	3	10.1	20.0	5	22 15	1	0	
43	5	8 18 50	10.1	3	5	6 19 36	8	2	4	4 20 21	7	2	4	22.2	21 6	12.5	1	3	23.1	21 51	4	0	2	9	22 37	2	0				
44	8	20.2	19 15	2	3	8	21.1	19 59	9	2	7	9 20 44	8	1	7	7 21 29	6	9.1	6	5	22 14	13.5	0	5	24.4	22 59	3	0			
45	16.1	7 19 39	3	2	17.1	6 20 24	11.1	7.2	18.0	22.4	21 8	9	8.1	19.0	23.2	21 52	7	0	9	24.0	22 37	6	0	8	9	23 22	4	10.9			
46	4	21.2	20 5	4	2	4	22.1	20 48	2	1	3	9 21 32	12.1	1	3	7 22 16	9	0	20.2	5	23 0	7	9.9	21.1	25.3	23 45	14.5	9			
47	8	8 20 30	10.6	6.2	7	6 21 13	4	1	6	23.4	21 57	2	0	6	24.2	22 40	13.0	0	5	25.0	23 24	8	9	4	8	24 8	6	8			
48	17.1	22.3	20 56	8	2	18.0	23.1	21 39	6	1	19.0	9 22 22	4	0	9	7 23 5	2	8.9	8	4	23 48	14.0	9	8	26.2	24 32	8	8			
49	4	9 21 23	9	1	3	6 22 5	7	7.1	3	24.4	22 48	5	7.9	20.3	25.2	23 30	3	9	21.1	9	24 13	1	8	22.1	7	24 56	9	10.7			
50	7	23.4	21 50	11.1	1	7	24.2	22 32	9	0	6	9 23 14	7	9	6	7 23 56	5	9	5	26.5	24 38	3	8	5	27.3	25 21	15.1	7			
51	18.1	24.0	22 18	3	1	19.1	8 22 59	12.1	0	20.0	25.5	23 41	9	9	21.0	26.3	24 23	13.6	8	9	27.1	25 4	4	9.7	9	9	25 46	2	6		
52	5	6 22 46	4	6.1	5	25.4	23 27	2	0	4	26.1	24 8	13.0	8	4	9 24 50	7	8.8	22.4	7	25 30	14.5	7	23.3	28.5	26 12	3	6			
53	19.0	25.2	23 15	6	0	9	26.0	23 56	3	6.9	9	7 24 36	1	7.8	9	27.5	25 17	8	7	8	28.3	25 57	6	6	7	29.1	26 38	4	10.5		
54	5	9 23 45	8	0	20.4	6 24 25	5	9	21.4	27.4	25 5	3	8	22.3	28.1	25 45	14.0	7	23.3	9	26 25	8	6	24.2	7	27 5	6	5			
55	20.0	26.6	24 16	12.0	0	9	27.3	24 55	7	9	9	28.1	25 34	5	7	8	8 26 13	2	6	8	29.6	26 53	15.0	5	7	0.3	27 33	8	4		
56	6	27.3	24 47	2	5.9	21.5	28.0	25 25	9	8	22.4	8 26 4	7	7	23.4	29.5	26 43	4	5	24.4	0.3	27 22	2	5	25.5	1	28 1	16.0	4		

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 2 46 9 } 8 ARC 41° 32' 3 } 14°					H. M. S. 2 50 8 } 8 15°					H. M. S. 2 54 7 } 8 16°					H. M. S. 2 58 7 } 8 17°					H. M. S. 3 2 8 } 8 18°					H. M. S. 3 6 10 } 8 19°									
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22°	16.0	16.5	15.47	12.1	11.8	16.9	17.4	16.40	13.0	12.8	17.9	18.3	17.33	14.0	13.8	18.8	19.2	18.27	14.9	14.9	19.7	20.1	19.20	15.9	15.9	20.7	21.0	20.14	16.9	16.9						
23	2	8	16	5	1	8	17.1	7	16	57	1	8	18.0	6	17	51	1	8	19.0	5	18	44	15.0	8	9	4	19	37	16.0	8	8	3	20	31	9	8
24	3	17.1	16	23	2	7	2	18.0	17	15	2	8	2	9	18	8	1	8	1	8	19	1	1	8	20.1	7	19	54	0	8	21.0	6	20	48	17.0	8
25	5	4	16	41	3	7	4	3	17	33	3	7	3	19.2	18	26	2	7	3	20.1	19	18	2	7	2	21.0	20	11	1	7	2	9	21	4	1	7
26	6	7	16	59	4	7	6	6	17	51	13.4	7	5	5	18	43	14.3	7	4	4	19	35	3	7	4	3	20	28	2	7	3	22.2	21	21	1	7
27	8	18.0	17	18	12.5	11.6	7	9	18	9	4	12.6	7	8	19	1	4	13.6	6	7	19	53	15.3	14.6	6	6	20	45	3	15.6	5	5	21	38	2	16.6
28	17.0	4	17	36	6	6	9	19.2	18	27	5	6	9	20.1	19	19	5	6	8	21.0	20	10	4	6	7	9	21	2	16.3	6	7	8	21	55	17.3	6
29	2	7	17	55	7	6	18.1	6	18	46	6	6	19.0	4	19	37	6	5	20.0	3	20	28	5	5	9	22.2	21	20	4	5	9	23.1	22	12	4	5
30	3	19.0	18	13	8	5	3	9	19	4	13.7	5	2	8	19	55	14.7	5	2	6	20	46	6	5	21.1	5	21	37	5	5	22.0	4	22	29	4	5
31	5	3	18	32	9	5	5	20.2	19	23	8	12.5	4	21.1	20	13	7	13.5	3	22.0	21	4	15.7	4	3	8	21	55	6	4	2	7	22	46	5	4
32	7	7	18	52	13.0	11.4	7	5	19	41	9	4	6	4	20	32	8	4	5	3	21	22	7	14.4	5	23.2	22	12	16.7	15.4	4	24.1	23	3	6	16.4
33	9	20.0	19	11	1	4	9	9	20	0	14.0	4	8	7	20	50	9	4	7	6	21	40	8	3	7	5	22	30	7	3	6	4	23	21	17.7	3
34	18.1	3	19	30	2	4	19.1	21.2	20	20	1	4	20.0	22.1	21	9	15.0	3	9	23.0	21	59	9	3	9	8	22	48	8	3	8	7	23	38	7	3
35	3	7	19	50	3	3	3	6	20	39	2	12.3	2	5	21	28	1	13.3	21.1	3	22	17	16.0	2	22.1	24.2	23	7	9	2	23.0	25.1	23	56	8	2
36	5	21.1	20	10	4	3	5	22.0	20	59	3	3	4	8	21	47	2	2	3	7	22	36	1	2	3	5	23	25	17.0	15.2	2	4	24	14	9	16.1
37	8	5	20	30	13.5	11.2	7	3	21	18	4	2	6	23.2	22	7	3	2	5	24.0	22	55	2	14.1	5	9	23	44	1	1	4	8	24	32	18.0	1
38	19.0	9	20	51	6	2	9	7	21	38	14.5	2	8	6	22	26	4	1	8	3	23	14	3	1	7	25.3	24	3	2	1	6	26.2	24	51	1	0
39	2	22.3	21	12	8	2	20.1	23.1	21	59	6	12.1	21.1	24.0	22	46	15.5	13.1	22.0	7	23	34	4	0	9	7	24	22	3	0	9	5	25	10	1	0
40	5	7	21	33	9	1	4	4	22	20	7	1	3	4	23	7	6	0	2	25.1	23	54	16.5	0	23.2	26.1	24	41	17.3	14.9	24.1	9	25	29	2	15.9
41	7	23.1	21	54	14.0	11.1	6	8	22	40	9	0	6	8	23	27	7	0	5	5	24	14	6	13.9	4	5	25	1	4	9	4	27.3	25	48	18.3	8
42	20.0	5	22	15	1	0	9	24.3	23	1	15.0	0	8	25.2	23	48	8	0	8	9	24	34	7	9	7	9	25	21	5	8	6	7	26	7	4	8
43	2	9	22	37	2	0	21.2	7	23	23	1	11.9	22.1	6	24	9	9	12.9	23.0	26.3	24	54	8	8	24.0	27.3	25	41	6	8	9	28.1	26	27	5	7
44	5	24.4	22	59	3	0	5	25.2	23	44	2	9	4	26.1	24	30	16.0	9	3	8	25	15	9	8	2	7	26	1	17.7	14.7	25.2	6	26	47	6	7
45	8	9	23	22	4	10.9	8	7	24	6	3	9	7	5	24	51	1	8	6	27.2	25	37	17.0	7	5	28.2	26	22	7	7	5	29.0	27	7	18.7	15.6
46	21.1	25.3	23	45	14.5	9	22.1	26.1	24	29	15.4	8	23.0	27.0	25	13	2	8	9	7	25	58	1	13.7	8	6	26	43	8	6	8	4	27	28	8	6
47	4	8	24	8	6	8	4	6	24	52	5	8	3	5	25	36	3	7	24.2	28.2	26	21	1	6	25.2	29.1	27	5	9	6	26.1	8	27	49	9	5
48	8	26.2	24	32	8	8	7	27.0	25	15	6	11.7	6	9	25	59	4	12.7	6	7	26	42	2	6	5	5	27	26	18.0	14.5	5	0.3	28	10	9	5
49	22.1	7	24	56	9	10.7	23.1	5	25	39	7	7	24.0	28.4	26	22	16.5	6	9	29.2	27	5	3	5	8	27	49	1	5	9	8	28	32	19.0	4	
50	5	27.3	25	21	15.1	7	4	28.1	26	3	9	6	4	9	26	46	7	6	25.3	7	27	28	17.5	5	26.2	0.5	28	11	3	4	27.2	1.3	28	54	1	15.4
51	9	9	25	46	2	6	8	7	26	28	16.0	6	7	29.4	27	10	8	5	7	0.2	27	52	6	13.4	6	1.0	28	34	4	3	6	8	29	17	2	3
52	23.3	28.5	26	12	3	6	24.2	29.3	26	53	1	11.5	25.1	27	35	9	12.5	26.1	8	28	16	7	3	27.0	6	28	58	18.5	14.2	28.0	2.3	29	40	3	2	
53	7	29.1	26	38	4	10.5	6	9	27	19	2	5	6	0.6	28	0	17.0	4	5	4	28	41	8	3	4	2.2	29	22	6	2	4	9	0	3	19.4	1
54	24.2	7	27	5	6	5	25.1	0.5	27	45	16.3	4	26.1	1.2	28	26	1	3	27.0	2.0	29	6	9	2	9	8	29	47	7	1	9	3.5	0	28	5	0
55	7	0.3	27	33	8	4	6	1.1	28	12	5	3	6	9	28	52	3	2	5	6	29	32	18.1	1	28.4	3.4	0	12	9	0	29.4	4.1	0	52	6	14.9
56	25.3	1.0	28	1	16.0	4	26.2	8	28	40	7	3	27.1	2.6	29	19	4	1	28.0	3.3	29	58	3	0	29.0	4.0	0	38	19.0	13.9	9	8	1	18	8	8

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } 20° SID. T. 3 10 12 } ARC 47° 33'.1 }					H. M. S. } 21° 3 14 16 } 48° 33'.9 }					H. M. S. } 22° 3 18 19 } 49° 34'.8 }					H. M. S. } 23° 3 22 24 } 50° 36'.0 }					H. M. S. } 24° 3 26 29 } 51° 37'.3 }					H. M. S. } 25° 3 30 35 } 52° 38'.8 }					
Lat.	H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
		Π	♄	♃	♁	♅	Π	♄	♃	♁	♅	Π	♄	♃	♁	♅	Π	♄	♃	♁	♅	Π	♄	♃	♁	♅	Π	♄	♃	♁	♅	
22		21.6	21.9	21.9	17.8	17.9	22.6	22.8	22.3	18.8	18.9	23.5	23.7	22.58	19.8	20.0	24.4	24.7	23.53	20.8	21.0	25.4	25.6	24.48	21.8	22.0	26.3	26.5	25.43	22.8	23.1	
23		8	22.2	21.25	9	9	7	23.1	22.19	9	9	7	24.0	23.13	8	19.9	6	25.0	24.8	8	20.9	5	9	25.3	8	0	5	8	25.58	8	0	
24		9	5	21.41	18.0	8	9	4	22.35	9	8	8	3	23.29	9	9	8	2	24.23	9	9	7	26.2	25.18	9	21.9	6	27.1	26.12	8	22.9	
25		22.1	8	21.57	0	8	23.0	7	22.51	19.0	8	24.0	6	23.45	20.0	8	9	5	24.39	9	8	9	4	25.33	9	8	8	4	26.27	9	9	
26		3	23.1	22.14	1	7	2	24.0	23.7	1	7	1	9	24.0	0	7	25.1	8	24.54	21.0	7	26.0	7	25.48	22.0	8	27.0	6	26.42	9	8	
27		4	4	22.30	2	17.7	4	3	23.23	1	18.7	3	25.2	24.16	1	19.7	3	26.1	25.9	0	7	2	27.0	26.3	0	7	2	9	26.56	23.0	7	
28		6	7	22.47	2	6	6	6	23.39	2	6	5	5	24.32	1	6	4	4	25.25	1	20.6	4	3	26.18	0	7	3	28.2	27.11	0	7	
29		8	24.0	23.3	3	3	5	7	9	23.56	2	5	7	8	24.48	2	6	6	7	25.40	1	6	6	6	26.33	1	21.6	5	5	27.26	0	22.6
30		23.0	3	23.20	18.4	5	9	25.2	24.12	19.3	5	9	26.1	25.4	20.2	5	8	27.0	25.56	2	5	7	9	26.48	1	5	7	8	27.41	1	5	
31		2	6	23.37	4	17.4	24.1	5	24.29	4	18.4	25.0	4	25.20	3	19.4	26.0	3	26.12	21.2	4	9	28.2	27.4	2	4	9	29.1	27.56	1	5	
32		4	9	23.54	5	4	3	8	24.45	4	4	2	7	25.36	4	4	2	6	26.28	3	4	27.1	5	27.19	22.2	4	28.1	4	28.11	23.2	4	
33		5	25.2	24.11	6	3	5	26.1	25.2	5	3	4	27.0	25.53	4	3	4	9	26.44	3	20.3	3	8	27.35	3	3	3	7	28.26	2	3	
34		7	6	24.29	6	2	7	5	25.19	6	2	6	3	26.9	5	2	6	28.2	27.0	4	2	5	29.1	27.51	3	21.2	5	9	28.42	2	22.2	
35		9	9	24.46	18.7	17.2	9	8	25.36	19.6	18.2	8	7	26.26	5	19.2	8	6	27.16	4	2	7	5	28.7	4	2	7	0.4	28.57	3	2	
36		24.2	26.3	25.4	8	1	25.1	27.2	25.53	7	1	26.0	28.0	26.43	20.6	1	27.0	9	27.33	21.5	1	9	8	28.23	4	1	9	7	29.13	3	1	
37		4	6	25.21	9	1	3	5	26.11	8	0	2	4	27.0	7	0	2	29.3	27.49	6	0	28.1	0.1	28.39	5	0	29.1	1.0	29.29	23.4	0	
38		6	27.0	25.39	9	0	5	9	26.28	8	0	5	7	27.17	7	0	4	6	28.6	6	19.9	3	5	28.55	22.5	20.9	3	4	29.45	4	21.9	
39		8	4	25.58	19.0	16.9	8	28.2	26.46	9	17.9	7	29.1	27.34	8	18.9	6	9	28.23	7	9	6	9	29.12	6	8	5	7	0.1	5	8	
40		25.1	7	26.16	1	9	26.0	6	27.4	20.0	8	9	5	27.52	8	8	9	0.3	28.40	21.7	8	8	1.2	29.29	6	8	8	2.1	0.17	5	8	
41		3	28.1	26.35	2	8	3	29.0	27.23	0	8	27.2	9	28.10	9	7	28.1	7	28.58	8	7	29.1	6	29.46	7	7	5	0.34	23.6	7		
42		6	5	26.54	3	7	5	4	27.41	1	7	5	0.3	28.28	21.0	6	4	1.1	29.15	9	6	3	2.0	0.3	22.7	6	0.3	9	0.51	6	6	
43		8	29.0	27.13	19.3	7	8	8	28.0	2	6	7	7	28.47	1	6	7	5	29.33	9	19.5	6	4	0.20	8	20.5	5	3.3	1.8	7	21.5	
44		26.1	4	27.33	4	16.6	27.1	0.2	28.19	3	17.6	28.0	1.1	29.5	1	18.5	9	9	29.52	22.0	5	9	8	0.38	9	5	8	7	1.25	7	5	
45		4	8	27.53	5	6	4	7	28.38	20.4	5	3	5	29.24	2	4	29.2	2.4	0.10	1	4	0.2	3.2	0.56	9	4	1.1	4.1	1.43	23.8	4	
46		7	0.3	28.13	6	5	7	1.1	28.58	4	5	6	9	29.43	3	4	5	8	0.29	1	4	5	7	1.14	23.0	4	4	4	2.0	8	3	
47		27.0	7	28.33	19.7	5	28.0	5	29.18	5	4	9	2.3	0.3	21.4	3	9	3.2	0.48	2	3	8	4.1	1.33	0	20.3	7	8	2.18	9	21.2	
48		4	1.1	28.54	8	4	3	2.0	29.39	6	3	29.2	8	0.23	4	18.3	0.2	6	1	7	22.3	19.2	1.1	5	1.52	1	2	2.1	5.3	2.37	9	1
49		7	6	29.15	8	16.3	7	4	29.59	20.7	17.2	6	3.3	0.43	5	2	5	4.0	1.27	3	2	5	9	2.11	2	1	4	7	2.56	24.0	1	
50		28.1	2.1	29.37	9	3	29.1	9	0.20	8	2	5	7	1.4	6	1	9	5	1.47	4	1	9	5.4	2.31	2	0	8	6.2	3.15	1	0	
51		4	6	29.59	20.0	2	5	3.4	0.42	9	1	0.3	4.2	1.25	21.7	0	1.2	5.0	2.8	5	0	2.3	9	2.51	23.3	19.9	3.1	7	3.34	1	20.9	
52		8	3.1	0.22	1	1	9	9	1.4	9	0	7	7	1.46	8	17.9	6	5	2.29	6	18.9	7	6.4	3.11	4	8	5	7.2	3.54	2	8	
53		29.3	7	0.45	2	0	0.3	4.5	1.26	21.0	16.9	1.1	5.2	2.8	9	8	2.0	6.0	2.50	22.7	8	3.1	9	3.32	4	7	9	7	4.15	24.2	7	
54		7	4.3	1.9	3	15.9	7	5.1	1.49	1	8	6	8	2.31	22.0	7	5	6	3.12	7	7	5	7.4	3.54	5	6	4.4	8.2	4.38	3	6	
55		0.3	9	1.33	4	8	1.2	7	2.13	2	7	2.1	6.4	2.54	0	6	3.1	7.2	3.35	8	5	4.0	8.0	4.15	6	4	9	7	4.57	4	4	
56		8	5.5	1.57	5	7	7	6.3	2.37	3	6	6	7.0	3.17	1	5	6	8	3.57	9	4	5	5	4.38	7	3	5.4	9.3	5.18	4	3	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 3 30 35 } ARC 52° 38'.8 } 25°					H. M. S. 3 34 42 } 26° 53° 40'.5 }					H. M. S. 3 38 49 } 27° 54° 42'.3 }					H. M. S. 3 42 57 } 28° 55° 44'.4 }					H. M. S. 3 47 6 } 29° 56° 46'.6 }					H. M. S. 3 51 16 } II 0° 57° 48'.9 }						
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
Lat.	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	♏	♐	♑	♒	♓	
22	26.3	26.5	25.43	22.8	23.1	27.3	27.5	26.39	23.7	24.1	28.2	28.4	27.35	24.8	25.1	29.2	29.4	28.31	25.7	26.2	0.1	0.3	29.27	26.8	27.3	1.1	1.2	0.23	27.8	28.3	
23	5	8	25.58	8	0	4	7	26.53	8	0	4	7	27.48	8	1	3	6	28.44	8	1	3	5	29.40	8	2	2	5	0.36	8	3	
24	6	27.1	26.12	8	22.9	6	28.0	27.7	8	0	5	9	28.2	8	0	5	9	28.58	8	1	4	8	29.53	8	1	4	7	0.49	8	2	
25	8	4	26.27	9	9	8	3	27.21	9	23.9	7	29.2	28.16	8	24.9	7	0.2	29.11	8	0	6	1.1	0.6	8	1	6	2.0	1	2	8	1
26	27.0	6	26.42	9	8	9	6	27.36	9	8	9	5	28.30	24.9	9	8	4	29.25	8	25.9	8	3	0.19	26.8	0	7	3	1.15	8	0	
27	2	9	26.56	23.0	7	28.1	8	27.50	9	8	29.0	8	28.44	9	8	♐	7	29.38	25.9	9	1.0	6	0.33	9	26.9	9	5	1.27	27.8	27.9	
28	3	28.2	27.11	0	7	3	29.1	28.5	24.0	7	2	♑	28.58	9	7	0.2	1.0	29.52	9	8	1	9	0.46	9	8	2.1	8	1.40	8	9	
29	5	5	27.26	0	22.6	5	4	28.19	0	6	4	0.3	29.12	25.0	7	4	3	0.6	9	7	3	2.1	0.59	9	7	2	3.1	1.53	9	8	
30	7	8	27.41	1	5	6	7	28.34	0	23.6	6	6	29.26	0	24.6	5	5	0.20	9	25.6	5	4	1.13	26.9	7	4	4	2.6	9	7	
31	9	29.1	27.56	1	5	8	♑	28.48	1	5	8	9	29.41	0	5	7	8	0.33	26.0	5	7	7	1.26	9	26.6	6	6	2.19	9	27.6	
32	28.1	4	28.11	23.2	4	29.0	0.3	29.3	1	4	♐	1.2	29.55	0	4	9	2.1	0.47	0	5	9	3.0	1.40	9	5	8	9	2.33	27.9	5	
33	3	7	28.26	2	3	2	6	29.18	24.1	3	0.2	5	0.9	1	3	1.1	4	1.1	0	4	2.1	3	1.54	27.0	4	3.0	4.2	2.46	9	4	
34	5	♑	28.42	2	22.2	4	9	29.33	2	23.2	3	8	0.24	25.1	24.3	3	7	1.16	0	25.3	2	6	2.7	0	3	2	5	2.59	9	3	
35	7	0.4	28.57	3	2	6	1.2	29.48	2	2	5	2.1	0.39	1	2	5	3.0	1.30	1	2	4	9	2.21	0.26.2	4	8	3.13	9	27.2		
36	9	7	29.13	3	1	8	6	0.3	2	1	7	5	0.54	2	1	7	4	1.44	26.1	1	6	4.2	2.36	0	1	6	5.1	3.26	28.0	2	
37	29.1	1.0	29.29	23.4	0	♐	9	0.19	3	0	1.0	8	1.9	2	0	9	7	1.59	1	0	9	6	2.50	0	0	8	4	3.40	0	1	
38	3	4	29.45	4	21.9	0.2	2.2	0.34	24.3	22.9	2	3.1	1.24	2	23.9	2.1	4.0	2.14	1	24.9	3.1	9	3	4	27.1	0	4.0	7	3.54	0	0
39	5	7	0.1	5	8	5	5	0.50	4	8	4	5	1.39	25.3	8	4	4	2.29	2	8	3	5.2	3.18	1	25.9	3	6.0	4	8	0	26.9
40	8	2.1	0.17	5	8	7	9	1.6	4	8	6	8	1.55	3	8	6	7	2.44	26.2	7	5	6	3.33	1	8	5	4	4.22	0	8	
41	♐	5	0.34	23.6	7	1.0	3.2	1.22	5	7	9	4.2	2.11	3	7	8	5.1	2.59	2	6	8	9	3.48	1	7	7	8	4.37	28.0	7	
42	0.3	9	0.51	6	6	2	6	1.38	5	22.6	2.2	6	2.26	4	23.6	3.1	5	3.15	3	24.5	4.1	6.3	4	3	2	6	5.0	7.1	4.51	1	6
43	5	3.3	1.8	7	21.5	5	4.0	1.55	24.6	5	4	5.0	2.43	25.4	5	4	8	3.30	3	4	3	7	4.18	27.2	4	3	5	5.6	1	5	
44	8	7	1.25	7	5	8	4	2.12	6	4	7	4	2.59	5	4	7	6.2	3.46	26.3	4	6	7.0	4.34	2	25.3	6	9	5.21	1	26.4	
45	1.1	4.1	1.43	23.8	4	2.1	8	2.29	6	3	3.0	7	3.16	5	4	9	5	4.2	4	3	9	4	4.49	2	3	8	8.3	5.36	1	3	
46	4	4	2.0	8	3	4	5.2	2.46	7	22.3	3	6.1	3.33	5	23.3	4.2	9	4.19	4	24.2	5.2	8	5	5	3	2	6.1	7	5.52	28.1	2
47	7	8	2.18	9	21.2	7	7	3.4	7	2	6	5	3.50	25.6	1	6	7.3	4.35	4	1	5	8.2	5.21	3	1	4	9.1	6.7	2	1	
48	2.1	5.3	2.37	9	1	3.0	6.1	3.22	24.8	1	9	9	4.7	6	0	9	7	4.52	26.5	0	8	6	5.38	27.3	0	8	5	6.23	2	0	
49	4	7	2.56	24.0	1	3	6	3.40	8	0	4.3	7.3	4.25	7	22.9	5.2	8.1	5.10	5	23.9	6.1	9.0	5.55	3	24.8	7.1	9	6.39	2	25.9	
50	8	6.2	3.15	1	0	7	7.0	3.59	9	21.9	7	8	4.43	7	8	6	6	5.27	6	8	5	4	6.12	4	7	5	10.3	6.56	2	7	
51	3.1	7	3.34	1	20.9	4.0	5	4.18	9	8	5.0	8.3	5	1	25.8	7	9	9.1	5.45	6	7	8	9	6.29	4	6	8	7	7.13	28.2	6
52	5	7.2	3.54	2	8	4	8.0	4.37	25.0	7	4	8	5.20	8	6	6.3	6	6	3	26.6	6	7.2	10.4	6.47	27.4	5	8.1	11.1	7.30	3	5
53	9	7	4.15	24.2	7	8	5	4.57	0	6	8	9.3	5.39	8	22.5	7	10.1	6.22	7	23.4	6	9	7	5	5	24.3	5	6	7.48	3	25.4
54	4.4	8.2	4.35	3	6	5.3	9.0	5.17	1	5	6.2	8	5.59	9	4	7.2	6	6.41	7	3	8.1	11.4	7.23	5	2	9.0	12.1	8	5	3	2
55	9	7	4.57	4	4	8	5	5.38	2	3	7	10.3	6.19	26.0	2	7	11.1	7	0	8	1	6	9	7.42	6	0	5	6	8.24	4	0
56	5.4	9.3	5.18	4	3	6.3	10.1	5.59	2	2	7.2	9	6.40	0	1	8.2	6	7.20	8	0	9.1	12.4	8	1	6	23.9	10.0	13.1	8.42	4	24.9

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 3 55 26 } II ARC 58° 51'.5 } 1°					H. M. S. 3 59 37 } II 2° 59° 54'.2 }					H. M. S. 4 3 48 } II 3° 60° 57'.1 }					H. M. S. 4 8 1 } II 4° 62° 0'.1 }					H. M. S. 4 12 13 } II 5° 63° 3'.3 }					H. M. S. 4 16 27 } II 6° 64° 6'.7 }								
Lat.	H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3				
22	20	2.1	120	28.8	29.4	3.0	3.1	217	29.8	0.4	3.9	4.1	314	0.8	1.5	4.9	5.0	411	1.8	2.5	5.9	6.0	59	2.9	3.6	6.8	7.0	67	3.9	4.6					
23	2	4	133	8	3	2	3	229	8	3	4.1	3	326	8	4	5.1	3	423	8	4	6.0	3	520	9	5	7.0	2	617	9	5					
24	4	7	145	8	2	3	6	241	8	3	3	6	337	8	3	2	5	434	8	3	2	5	531	9	4	2	5	628	9	4					
25	5	9	157	8	1	5	9	253	8	2	4	8	349	8	2	4	8	445	8	3	4	8	542	8	3	3	7	635	9	3					
26	7	3.2	210	8	1	6	4.1	3	5	8	1	6	5.1	4	1	8	1.1	6	6.0	4	57	8	2.2	5	7.0	5	553	8	3.2	5	8.0	6	49	8	4.2
27	9	5	222	28.8	0	8	4	317	29.8	0	8	3	413	0.8	1	7	3	58	1.8	1	7	3	64	2.8	1	7	2	659	3.8	1					
28	3.0	7	235	8	28.9	4.0	6	330	8	29.9	9	6	424	8	0	9	5	519	8	0	9	5	615	8	0	8	5	710	8	1					
29	2	4.0	247	8	8	2	9	342	8	8	5.1	8	436	8	0.9	6.1	8	531	8	1.9	7.0	8	626	8	2.9	8.0	7	721	8	0					
30	4	3	30	8	7	3	5.2	354	8	8	3	6.1	448	8	8	3	7.0	542	8	8	2	8.0	637	7	8	2	9.0	731	7	3.9					
31	6	5	313	8	6	5	5	46	8	7	5	4	50	8	7	4	3	554	8	7	4	3	648	7	7	4	2	742	7	8					
32	8	8	326	28.8	28.5	7	7	419	29.8	29.6	7	7	512	0.8	6	6	6	65	1.8	6	6	6	659	2.7	6	5	5	753	3.7	7					
33	4.0	5.1	338	9	5	9	6.0	431	8	5	9	9	524	8	5	8	9	617	7	5	8	8	710	7	5	7	8	84	7	6					
34	1	4	351	9	4	5.1	3	444	8	4	6.0	7.2	536	8	0.4	7.0	8.1	629	7	1.4	8.0	9.1	722	7	2.4	9	10.0	814	6	5					
35	3	7	44	9	3	3	6	456	8	3	2	5	548	8	3	2	4	641	7	3	2	4	733	7	3	9.1	3	825	6	3.4					
36	5	6.0	418	9	28.2	5	9	59	8	29.2	4	8	61	8	2	4	7	653	7	2	4	7	744	7	2	3	6	837	6	2					
37	8	3	431	28.9	1	7	7.2	522	29.8	1	7	8.1	613	0.8	1	6	9.0	75	1.7	1	6	10.0	756	2.7	1	5	9	848	3.6	1					
38	5.0	6	444	9	0	9	5	535	8	0	9	4	626	8	0	8	3	717	7	0	8	3	88	6	0	7	11.2	859	6	0					
39	2	9	458	9	27.9	6.2	8	548	8	28.9	7.1	7	638	8	29.9	8.1	7	729	7	0.9	9.0	6	819	6	1.9	10.0	5	910	5	2.9					
40	4	7.3	512	9	8	4	8.2	62	8	8	3	9.1	651	8	8	3	10.0	741	7	8	2	9	831	6	8	2	8	922	5	8					
41	7	6	526	9	7	6	5	615	29.8	7	6	4	74	8	7	5	3	754	7	6	5	11.3	844	6	6	4	12.2	933	5	6					
42	6.0	8.0	540	29.0	5	9	9	629	8	5	9	8	718	0.8	5	8	7	87	1.7	5	8	6	856	2.6	5	7	5	945	3.5	5					
43	2	4	554	0	4	7.2	9.2	643	9	4	8.1	10.1	731	8	4	9.1	11.0	820	7	0.4	10.0	12.0	98	6	1.4	11.0	8	957	4	2.4					
44	5	7	69	0	27.3	5	6	657	9	28.3	4	5	744	8	29.3	3	4	833	7	3	3	3	921	6	2	2	13.1	109	4	2					
45	8	9.1	623	0	2	7	10.0	711	29.9	2	7	8	758	8	2	6	7	846	6	1	6	6	934	6	1	5	4	1021	4	1					
46	7.1	5	638	0	1	8.0	4	725	9	1	9.0	11.2	812	8	1	9	12.1	859	6	0	9	9	947	5	0	8	8	1034	4	0					
47	4	8	653	29.0	0	3	7	740	9	0	3	5	826	0.8	0	10.2	5	913	1.6	29.9	11.2	13.3	100	2.5	0.9	12.1	14.2	1046	3.3	1.9					
48	7	10.2	79	0	26.9	6	11.1	755	9	27.9	6	9	841	8	28.8	5	8	927	6	8	5	6	1013	5	7	4	5	1059	3	7					
49	8.0	6	725	1	7	9.0	5	810	29.9	8	10.0	12.3	855	8	7	8	13.2	941	6	6	8	14.0	1027	5	6	7	5	1112	3	5					
50	4	11.1	741	1	6	3	9	825	9	6	3	7	910	8	5	11.2	6	955	6	5	12.1	4	1041	5	4	13.1	15.2	1126	3	4					
51	7	5	757	1	5	6	12.3	841	9	5	6	13.1	925	8	4	5	14.0	1010	6	29.3	4	8	1055	5	0.3	4	6	1139	3	3					
52	9.1	9	813	29.1	26.4	10.0	7	857	9	27.3	11.0	5	941	0.8	2	9	4	1025	1.6	2	8	15.2	119	2.4	1	8	16.0	1153	3.2	1					
53	5	12.4	830	1	2	4	13.2	913	2	4	14.0	957	8	1	12.3	8	1040	6	0	13.2	6	1124	4	0	14.2	4	12	7	2	0.9					
54	9	9	848	1	1	9	7	930	0.0	0	8	5	1013	8	27.9	7	15.3	1056	6	28.9	6	16.1	1139	4	29.8	6	9	1222	2	7					
55	10.4	13.4	95	2	25.9	11.3	14.2	947	0	26.8	12.2	15.0	1029	8	7	13.2	8	1111	6	7	14.1	6	1154	4	6	15.0	17	4	1236	2	5				
56	9	9	923	2	8	9	7	105	0	7	7	5	1046	8	6	7	16.3	1125	5	5	6	17.1	1210	3	4	5	9	1251	1	3					

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

14		UPPER MERIDIAN, CUSP OF 10th H.																												
H. M. S. } II SID. T. 4 16 27 } II ARC 64° 6'.7 } 6°					H. M. S. } II 7° 4 20 41 } II 7° 65° 10'.2 } II 7°					H. M. S. } II 8° 4 24 55 } II 8° 66° 13'.8 } II 8°					H. M. S. } II 9° 4 29 11 } II 9° 67° 17'.6 } II 9°					H. M. S. } II 10° 4 33 26 } II 10° 68° 21'.6 } II 10°					H. M. S. } II 11° 4 37 42 } II 11° 69° 25'.6 } II 11°					
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"
22	6.8	7.0	6 7	3.9	4.6	7.8	7.9	7 5	5.0	5.6	8.8	8.9	8 3	6.0	6.7	9.8	9.9	9 2	7.0	7.7	10.7	10.9	10 0	8.1	8.8	11.7	11.8	10 59	9.2	9.8
23	7.0	2	6 17	9	5	8.0	8.2	7 15	4.9	5	9	9.2	8 13	0	6	9	10.1	9 11	0	6	9	11.1	10 9	1	7	9	12.1	11 8	1	7
24	2	5	6 28	9	4	1	4	7 25	9	5	9.1	4	8 22	5.9	5	10.1	4	9 20	0	5	11.0	3	10 18	0	6	12.0	3	11 16	1	6
25	3	7	6 38	9	3	3	7	7 35	9	4	3	6	8 32	9	4	2	6	9 29	6.9	4	2	6	10 27	0	5	2	5	11 24	0	5
26	5	8.0	6 49	8	4.2	4	9	7 45	8	5.3	4	9	8 42	9	6.3	4	8	9 39	9	7.3	4	8	10 36	7.9	4	3	7	11 33	8.9	4
27	7	2	6 59	3.8	1	6	9.2	7 55	8	2	6	10.1	8 52	8	2	5	11.1	9 48	8	2	5	12.0	10 44	9	8.3	5	13.0	11 41	9	9.3
28	8	5	7 10	8	1	8	4	8 6	4.8	1	8	4	9 1	8	1	7	3	9 57	8	1	7	3	10 53	8	2	7	2	11 50	8	2
29	8.0	7	7 21	8	0	9.0	7	8 16	8	0	9	6	9 11	5.8	0	9	5	10 7	8	0	9	5	11 2	8	1	8	4	11 58	8	1
30	2	9.0	7 31	7	3.9	1	9	8 26	7	4.9	10.1	8	9 21	7	5.9	11.1	8	10 16	6.7	6.9	12.0	7	11 11	7	0	13.0	7	12 7	7	0
31	4	2	7 42	7	8	3	10.2	8 36	7	8	3	11.1	9 31	7	8	2	12.0	10 25	7	8	2	13.0	11 20	7.7	7.9	2	9	12 15	8.7	8.9
32	5	5	7 53	3.7	7	5	4	8 47	7	7	5	3	9 41	7	7	4	3	10 35	6	7	4	2	11 29	6	7	3	14.2	12 24	6	8
33	7	8	8 4	7	6	7	7	8 57	4.6	6	6	6	9 51	6	6	6	5	10 44	6	6	6	5	11 38	6	6	5	4	12 33	6	6
34	9	10.0	8 14	6	5	9	11.0	9 8	6	5	8	9	10 1	5.6	5	8	8	10 54	6	5	8	8	11 48	5	5	7	7	12 41	5	5
35	9.1	3	8 25	6	3.4	10.1	2	9 18	6	4.4	11.0	12.2	10 11	6	5.4	12.0	13.1	11 4	6.5	6.4	13.0	14.0	11 57	5	7.4	9	9	12 50	5	8.4
36	3	6	8 37	6	2	3	5	9 29	6	2	2	4	10 21	5	3	2	3	11 13	5	3	2	3	12 6	7.4	3	14.1	15.2	12 59	8.4	3
37	5	9	8 48	3.6	1	5	8	9 40	6	1	4	7	10 31	5	1	4	5	11 23	4	1	4	5	12 16	4	1	3	5	13 8	3	1
38	7	11.2	8 59	6	0	7	12.1	9 50	4.6	0	7	13.0	10 42	4	0	6	8	11 33	4	0	6	7	12 25	3	0	5	7	13 17	3	0
39	10.0	5	9 10	5	2.9	9	4	10 1	5	3.9	9	3	10 52	5.4	4.9	8	14.1	11 43	3	5.9	8	15.0	12 35	3	6.9	8	9	13 26	2	7.9
40	2	8	9 22	5	8	11.1	7	10 12	5	8	12.1	6	11 3	4	7	13.1	4	11 53	6.3	7	14.0	3	12 44	7.3	7	15.0	16.2	13 35	8.2	7
41	4	12.2	9 33	5	6	4	13.1	10 23	5	6	4	14.0	11 13	3	6	3	8	12 4	3	6	3	6	12 54	2	6	2	5	13 44	1	6
42	7	5	9 45	3.5	5	7	4	10 35	5	5	6	3	11 24	3	5	6	15.1	12 14	2	5	5	16.0	13 4	2	4	5	8	13 54	1	4
43	11.0	8	9 57	4	2.4	9	7	10 46	4.5	3.3	9	6	11 35	5.3	4.3	8	4	12 24	2	5.3	8	3	13 14	2	6.3	7	17.1	14 3	0	3
44	2	13.1	10 9	4	2	12.2	14.0	10 58	4	2	13.1	9	11 46	2	2	14.1	7	12 35	1	2	15.0	6	13 24	7.1	1	16.0	5	14 13	7.9	1
45	5	4	10 21	4	1	5	3	11 10	4	0	4	15.2	11 58	2	0	4	16.1	12 46	6.1	0	3	9	13 34	1	0	3	8	14 23	9	6.9
46	8	8	10 34	4	0	8	7	11 22	4	2.9	7	5	12 9	1	3.9	6	4	12 57	0	4.9	6	17.3	13 45	0	5.8	6	18.1	14 33	8	8
47	12.1	14.2	10 46	3.3	1.9	13.0	15.0	11 34	3	8	14.0	9	12 21	5.1	7	9	7	13 8	0	8	9	6	13 55	0	7	8	4	14 43	8	6
48	4	5	10 59	3	7	3	3	11 46	4.3	7	3	16.2	12 32	1	5	15.2	17.0	13 19	0	6	16.2	9	14 6	6.9	6	17.1	7	14 53	7.7	4
49	7	8	11 12	3	5	7	7	11 58	3	5	6	5	12 44	0	4	5	4	13 31	5.9	4	5	18.2	14 17	9	4	4	19.1	15 3	7	6.2
50	13.1	15.2	11 26	3	4	14.0	16.1	12 11	2	2.3	9	9	12 57	0	2	9	8	13 42	9	2	8	6	14 28	8	2	7	4	15 14	6	1
51	4	6	11 39	3	3	3	5	12 24	2	2	15.2	17.3	13 9	4.9	0	16.2	18.2	13 54	9	1	17.1	19.0	14 39	7	1	18.1	8	15 25	6	0
52	8	16.0	11 53	3.2	1	7	9	12 37	4.1	1	6	7	13 22	9	2.8	5	6	14 6	8	3.9	5	4	14 51	6.7	4.9	4	20.2	15 36	7.5	5.8
53	14.2	4	12 7	2	0.9	15.1	17.3	12 51	1	1.9	9	18.1	13 35	8	6	9	19.0	14 19	5.7	7	9	8	15 3	6	7	7	6	15 47	4	6
54	6	9	12 22	2	7	5	7	13 5	0	7	16.3	5	13 48	8	4	17.3	4	14 31	7	5	18.3	20.2	15 15	6	5	19.1	21.0	15 58	4	4
55	15.0	17.4	12 36	2	5	9	18.2	13 19	0	5	8	19.0	14 1	7	1	7	8	14 44	6	3	7	6	15 27	5	3	6	4	16 10	3	2
56	5	9	12 51	1	3	16.4	7	13 33	3.9	3	17.3	4	14 15	6	1.9	18.2	20.2	14 57	5	1	19.1	21.0	15 40	4	1	20.1	8	16 22	3	0

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. Lat.	H. M. S. } II 12° SID. T. 4 41 59 } ARC 70° 29' 8					H. M. S. } II 13° 4 46 16 } 71° 34' 1					H. M. S. } II 14° 4 50 34 } 72° 38' 5					H. M. S. } II 15° 4 54 52 } 73° 43' 1					H. M. S. } II 16° 4 59 11 } 74° 47' 7					H. M. S. } II 17° 5 3 30 } 75° 52' 5				
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	12.7	12.8	11 58	10.2	10.9	13.7	13.8	12 57	11.3	11.9	14.6	14.8	13 57	12.4	12.9	15.6	15.8	14 56	13.4	13.9	16.6	16.8	15 56	14.5	15.0	17.6	17.8	16 55	15.6	16.0
23	8	13.0	12 6	2	8	8	14.0	13 5	2	8	8	15.0	14 4	3	8	8	16.0	15 3	4	8	8	17.0	16 2	4	14.9	7	18.0	17 1	5	15.9
24	13.0	3	12 14	1	7	14.0	2	13 12	1	7	9	2	14 11	2	7	9	2	15 9	3	7	9	2	16 8	3	8	9	2	17 7	4	8
25	1	5	12 22	0	6	1	5	13 20	1	6	15.1	4	14 18	1	6	16.1	4	15 16	2	6	17.1	4	16 14	2	7	18.0	4	17 13	3	7
26	3	7	12 30	0	5	3	7	13 27	0	5	3	7	14 25	1	5	2	6	15 23	1	5	2	6	16 21	1	5	2	6	17 19	1	5
27	5	9	12 38	9.9	10.3	4	9	13 35	10.9	11.4	4	9	14 32	0	12.4	4	8	15 29	0	13.4	4	8	16 27	1	4	4	8	17 24	1	5
28	6	14.2	12 46	8	2	14.6	15.1	13 43	9	2	6	16.1	14 39	11.9	2	6	17.1	15 36	12.9	3	5	18.0	16 33	0	14.3	5	19.0	17 30	0	15.3
29	8	4	12 54	8	1	8	4	13 50	8	1	7	3	14 46	8	2	7	3	15 43	9	2	7	2	16 39	13.9	2	7	2	17 36	14.9	2
30	14.0	6	13 2	7	0	9	6	13 58	7	0	9	5	14 54	8	0	9	5	15 50	8	1	9	5	16 46	8	1	8	4	17 42	8	1
31	1	9	13 10	9.7	9.9	15.1	8	14 6	7	10.9	16.1	8	15 1	7	11.9	17.1	7	15 56	7	12.9	18.0	7	16 52	7	0	19.0	6	17 48	7	0
32	3	15.1	13 18	6	8	3	16.1	14 13	10.6	8	2	17.0	15 8	6	8	2	18.0	16 3	6	8	2	9	16 59	6	13.8	2	9	17 54	6	14.8
33	5	4	13 27	5	7	5	3	14 21	5	7	4	2	15 16	11.5	7	4	2	16 10	12.5	7	4	19.1	17 5	13.5	7	4	20.1	18 0	14.5	7
34	7	6	13 35	5	5	6	5	14 29	5	5	6	5	15 23	5	6	6	4	16 17	5	6	6	4	17 11	5	6	5	3	18 6	4	6
35	9	9	13 43	9.4	9.4	8	8	14 37	4	10.4	8	7	15 30	4	11.4	8	7	16 24	4	12.4	8	6	17 18	4	4	7	5	18 12	3	4
36	15.1	16.1	13 52	4	3	16.0	17.1	14 45	4	3	17.0	9	15 38	3	3	18.0	9	16 31	3	3	9	8	17 25	3	13.3	9	7	18 18	3	14.3
37	3	4	14 0	3	1	2	3	14 53	10.3	1	2	18.1	15 45	11.2	1	2	19.1	16 38	12.2	2	19.1	20.0	17 31	13.3	2	20.1	9	18 24	14.2	1
38	5	6	14 9	2	0	5	5	15 1	2	0	4	4	15 53	2	0	4	3	16 45	1	0	4	3	17 38	2	0	3	2	18 30	1	0
39	7	9	14 17	9.2	8.9	7	8	15 9	1	9.9	6	7	16 1	1	10.9	6	6	16 53	1	11.9	6	5	17 45	1	12.9	6	4	18 37	0	13.9
40	9	17.1	14 26	1	7	9	18.1	15 17	1	7	9	19.0	16 9	0	7	8	9	17 0	0	7	8	8	17 52	0	7	8	7	18 43	13.9	7
41	16.2	4	14 35	1	6	17.1	3	15 26	0	6	18.1	2	16 17	10.9	6	19.1	20.2	17 7	11.9	5	20.0	21.1	17 58	12.9	5	21.0	22.0	18 50	8	5
42	4	7	14 44	0	4	4	6	15 34	9.9	4	4	5	16 25	9	4	3	4	17 15	8	4	3	3	18 5	9	4	2	2	18 56	7	4
43	7	18.0	14 53	8.9	3	7	9	15 43	9	3	6	8	16 33	8	2	6	7	17 23	7	2	5	6	18 13	8	2	5	5	19 3	6	2
44	17.0	4	15 2	8	1	9	19.2	15 51	8	1	9	20.1	16 41	7	1	8	21.0	17 30	6	0	8	9	18 20	7	0	8	8	19 9	5	0
45	2	7	15 11	8	7.9	18.2	5	16 0	7	8.9	19.1	4	16 49	10.6	9.9	20.1	3	17 38	11.5	10.9	21.1	22.2	18 27	6	11.9	22.0	23.1	19 16	13.4	12.9
46	5	19.0	15 21	7	8	5	9	16 9	6	8	4	7	16 58	5	8	4	6	17 46	4	8	3	4	18 34	12.5	8	3	3	19 23	3	7
47	8	3	15 30	7	7	7	20.2	16 18	9.6	6	6	21.0	17 6	4	6	6	9	17 54	4	6	5	7	18 42	3	6	5	6	19 30	2	5
48	18.0	6	15 40	8.6	5	19.0	5	16 27	5	5	9	3	17 15	3	4	9	22.2	18 2	3	4	8	23.0	18 50	2	4	7	9	19 37	1	3
49	3	9	15 50	6	3	3	8	16 37	5	3	20.2	6	17 24	10.2	2	21.2	5	18 10	11.2	2	22.1	3	18 57	1	2	23.0	24.2	19 44	0	1
50	6	20.3	16 0	5	1	6	21.1	16 46	4	1	5	22.0	17 32	2	0	5	8	18 19	1	0	4	7	19 5	0	10.9	3	5	19 51	12.9	11.9
51	9	6	16 10	4	6.9	9	5	16 56	9.3	7.9	8	3	17 41	1	8.8	8	23.2	18 27	0	9.8	7	24.0	19 13	11.9	7	6	9	19 59	8	7
52	19.3	21.0	16 21	8.3	7	20.2	8	17 6	2	7	21.1	6	17 51	0	6	22.1	5	18 36	10.9	6	23.0	3	19 21	8	5	9	25	2 20	6	5
53	7	4	16 31	3	5	6	22.2	17 16	1	5	5	23.0	18 0	9.9	4	4	8	18 45	8	4	4	6	19 29	6	3	24.3	5	20 14	5	3
54	20.1	8	16 42	2	3	21.0	6	17 26	0	3	9	4	18 10	8	2	8	24.2	18 54	7	2	8	25.0	19 38	5	1	7	8	20 2	12.3	1
55	5	22.2	16 53	1	1	4	23.0	17 36	8.9	0	22.3	8	18 20	7	0	23.2	6	19 3	6	8.9	12	4	19 46	4	9.8	25.1	26	2 20	10.8	10.8
56	21.0	6	17 4	0	5.9	9	4	17 47	8	6.8	8	24.2	18 30	6	7.8	7	25.0	19 12	5	7	6	8	19 58	2	6	6	6	20 3	1	5

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H.	H. M. S. } II 17° SID. T. 5 3 30 } ARC 75° 52'.5 }					H. M. S. } II 18° 5 7 49 } 76° 57'.3 }					H. M. S. } II 19° 5 12 9 } 78° 2'.2 }					H. M. S. } II 20° 5 16 29 } 79° 7'.2 }					H. M. S. } II 21° 5 20 49 } 80° 12'.3 }					H. M. S. } II 22° 5 25 10 } 81° 17'.4 }										
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3						
Lat.	☾	♈	♉	♊	♋	☾	♈	♉	♊	♋	☾	♈	♉	♊	♋	☾	♈	♉	♊	♋	☾	♈	♉	♊	♋	☾	♈	♉	♊	♋						
22	17.6	17.8	16.55	15.6	16.0	18.6	18.8	17.55	16.6	17.1	19.6	19.8	18.55	17.7	18.1	20.6	20.8	19.55	18.7	19.1	21.6	21.8	20.55	19.8	20.2	22.6	22.8	21.55	20.8	21.2						
23	7	18.0	17	1	5	15.9	7	19.0	18	1	5	0	7	20.0	19	0	6	0	7	21.0	20	0	6	0	7	22.0	20	59	6	0	7	9	21	59	7	1
24	9	2	17	7	4	8	9	2	18	6	4	16.8	9	2	19	5	5	17.9	9	1	20	4	5	18.9	9	2	21	3	5	19.9	9	23.1	22	2	6	20.9
25	18.0	4	17	13	3	7	19.0	4	18	11	3	7	20.0	4	19	10	4	7	21.0	3	20	9	4	8	22.0	3	21	7	4	8	23.0	3	22	6	5	8
26	2	6	17	19	15.2	6	2	6	18	17	16.2	6	2	6	19	15	17.3	6	2	5	20	13	18.3	6	2	5	21	12	19.3	7	2	5	22	10	20.3	7
27	4	8	17	24	1	5	3	8	18	22	1	5	3	8	19	20	1	5	3	7	20	18	2	5	3	7	21	16	2	6	3	7	22	14	2	6
28	5	19.0	17	30	0	15.3	5	20.0	18	27	0	16.4	5	21.0	19	25	0	17.4	5	9	20	22	1	18.4	5	9	21	20	1	19.4	5	9	22	17	1	20.4
29	7	2	17	36	14.9	2	7	2	18	33	15.9	2	7	2	19	30	16.9	3	6	22.1	20	27	0	3	6	23.1	21	24	0	3	23.6	24.1	22	21	0	3
30	8	4	17	42	8	1	8	4	18	38	8	1	8	4	19	35	8	1	8	3	20	31	17.8	1	8	3	21	28	18.9	2	8	3	22	25	19.9	2
31	19.0	6	17	48	7	0	20.0	6	18	44	7	0	21.0	6	19	40	7	0	22.0	5	20	36	7	0	23.0	5	21	32	7	0	9	5	22	28	7	0
32	2	9	17	54	6	14.8	2	8	18	49	6	15.9	2	8	19	45	6	16.9	1	8	20	41	6	17.9	1	7	21	36	6	18.9	24.1	7	22	32	6	19.9
33	4	20.1	18	0	14.5	7	3	21.0	18	55	15.5	7	3	22.0	19	50	5	7	3	23.0	20	45	5	7	3	9	21	40	5	8	3	9	22	36	5	8
34	5	3	18	6	4	6	5	3	19	0	4	6	5	2	19	55	16.4	6	5	2	20	50	4	6	5	24.1	21	45	18.4	6	5	25.1	22	39	19.4	6
35	7	5	18	12	3	4	7	5	19	6	3	4	7	4	20	0	3	4	7	4	20	55	17.3	4	7	3	21	49	3	5	6	3	22	43	3	5
36	9	7	18	18	3	14.3	9	7	19	12	3	15.3	9	6	20	5	2	16.3	9	5	20	59	2	17.3	8	5	21	53	2	18.3	8	5	22	47	1	19.3
37	20.1	9	18	24	14.2	1	21.1	9	19	17	15.2	1	22.1	8	20	11	1	1	23.1	7	21	4	1	1	24.0	7	21	57	0	1	25.0	7	22	51	0	1
38	3	21.2	18	30	1	0	3	22.1	19	23	1	0	3	23.0	20	16	0	0	3	24.0	21	9	0	0	2	9	22	2	17.9	0	2	9	22	55	18.9	0
39	6	4	18	37	0	13.9	5	4	19	29	0	14.8	5	3	20	21	15.9	15.8	5	2	21	14	16.9	16.8	4	25.1	22	6	8	17.8	4	26.1	22	59	8	18.8
40	8	7	18	43	13.9	7	7	6	19	35	14.9	7	7	5	20	27	8	7	7	5	21	19	8	7	6	4	22	10	7	7	6	3	23	2	7	6
41	21.0	22.0	18	50	8	5	22.0	9	19	41	8	5	9	8	20	32	7	5	9	7	21	23	7	5	9	6	22	15	6	5	8	5	23	6	6	5
42	2	2	18	56	7	4	2	23.1	19	47	7	3	23.2	24.0	20	38	6	3	24.1	25.0	21	28	6	3	25.1	9	22	19	17.4	3	26.1	8	23	10	18.5	3
43	5	5	19	3	6	2	5	4	19	53	6	2	4	3	20	43	4	1	4	2	21	34	16.5	1	3	26.1	22	24	3	1	3	27.0	23	14	3	1
44	8	8	19	9	5	0	7	7	19	59	14.5	0	7	6	20	49	15.3	0	6	5	21	39	3	15.9	6	4	22	29	2	16.9	6	3	23	19	2	17.9
45	22.0	23.1	19	16	13.4	12.9	23.0	24.0	20	5	4	13.9	9	9	20	55	2	14.9	9	7	21	44	2	8	9	6	22	33	0	8	8	5	23	23	0	8
46	3	3	19	23	3	7	2	2	20	12	2	7	24.1	25.1	21	0	1	7	25.1	26.0	21	49	1	6	26.1	9	22	38	16.9	6	27.0	7	23	27	17.8	6
47	5	6	19	30	2	5	4	4	20	18	0	5	3	3	21	6	0	5	3	2	21	55	15.9	4	3	27.2	22	43	7	4	2	28.0	23	31	6	4
48	7	9	19	37	1	3	7	7	20	25	13.9	3	6	6	21	12	14.9	2	6	5	22	0	8	2	5	5	22	48	6	2	4	2	23	35	5	1
49	23.0	24.2	19	44	0	1	24.0	25.1	20	31	8	1	9	9	21	18	8	0	9	8	22	5	7	0	8	7	22	53	4	0	7	5	23	40	3	16.9
50	3	5	19	51	12.9	11.9	3	4	20	38	7	12.9	25.2	26.2	21	24	6	13.8	26.2	27.1	22	11	5	14.8	27.1	28.0	22	58	16.3	15.8	28.0	8	23	44	2	7
51	6	9	19	59	8	7	6	7	20	45	5	7	5	5	21	31	5	6	5	4	22	17	15.4	6	4	3	23	3	2	6	3	29.1	23	49	0	5
52	9	25.2	20	6	6	5	9	26.0	20	52	13.4	5	8	8	21	37	14.3	4	8	7	22	23	2	4	7	6	23	8	1	4	6	4	23	54	16.9	3
53	24.3	5	20	14	5	3	25.2	3	20	59	3	3	26.1	27.1	21	44	2	2	27.1	28.0	22	29	0	2	28.0	9	23	13	15.9	1	9	7	23	58	8	1
54	7	8	20	22	12.3	1	6	7	21	6	2	0	5	5	21	50	0	12.9	5	3	22	35	14.9	13.9	4	29.2	23	19	7	14.8	29.3	♉	24	3	6	15.8
55	25.1	26.2	20	30	2	10.8	26.0	27.1	21	13	0	11.7	9	9	21	57	13.9	6	9	7	22	41	7	6	8	5	23	24	5	5	7	0.3	24	8	4	5
56	5	6	20	38	1	5	4	5	21	21	12.9	4	27.3	28.3	22	4	7	3	28.3	29.1	22	47	5	3	29.2	9	23	30	3	2	0.1	7	24	13	2	2

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } II SID. T. 5 29 30 } II ARC 82° 22'.6 } 23°					H. M. S. } II 5 33 51 } II 83° 27'.8 } 24°					H. M. S. } II 5 38 12 } II 84° 33'.1 } 25°					H. M. S. } II 5 42 34 } II 85° 38'.5 } 26°					H. M. S. } II 5 46 55 } II 86° 43'.8 } 27°					H. M. S. } II 5 51 17 } II 87° 49'.2 } 28°				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
	°	♄	♃	♂	♆	♅	♄	♃	♂	♆	♅	♄	♃	♂	♆	♅	♄	♃	♂	♆	♅	♄	♃	♂	♆	♅	♄	♃	♂	♆	♅
22	23.6	23.8	22 56	21.8	22.2	24.6	24.8	23 56	22.8	23.2	25.6	25.8	24 57	23.8	24.3	26.6	26.8	25 57	24.8	25.3	27.6	27.8	26 58	25.9	26.3	28.6	28.9	27 56	26.9	27.3	
23	7	24.0	22 59	7	1	7 25.0	23 59	6	1	7 26.0	24 59	8	1	7 27.0	25 59	7	2	7 28.0	26 59	8	2	7 29.0	27 59	8	2	7 29.0	27 59	8	2		
24	9	1 23	2	6	0	8	2 24	2	5	0	9	1 25	1	6	0	9	2 26	1	6	0	9	2 27	1	6	0	9	2 28	0	6	1	
25	24.0	3 23	5	5	21.8	25.0	3 24	4	4	22.9	26.0	3 25	3	5	23.9	27.0	3 26	3	5	24.9	28.0	3 27	2	5	25.9	29.0	4 28	1	5	26.9	
26	2	5 23	9	21.4	7	1	5 24	7	22.3	7	2	5 25	6	23.3	8	2	5 26	4	24.3	8	2	5 27	3	25.4	8	2	5 28	2	26.4	8	
27	3	7 23	12	2	6	3	7 24	10	2	6	3	7 25	8	2	6	3	7 26	6	2	6	3	7 27	5	2	6	3	7 28	3	2	7	
28	5	9 23	15	1	5	4	9 24	13	0	5	5	9 25	10	1	5	5	9 26	8	1	5	5	9 27	6	1	5	5	9 28	4	1	5	
29	24.6	25.1	23 18	0	21.3	25.6	26.1	24 15	21.9	22.3	26.6	27.0	25 13	22.9	23.3	27.6	28.0	26 10	23.9	24.4	28.6	29.0	27 7	24.9	25.4	29.6	♄	28 5	25.9	26.4	
30	8	2 23	21	20.9	2	8	2 24	18	8	2	8	2 25	15	8	2	8	2 26	12	8	2	8	2 27	9	8	2	8	0.2	28 6	8	2	
31	9	4 23	25	8	0	9	4 24	21	7	1	9	4 25	17	7	1	9	4 26	14	7	1	9	3 27	10	7	1	9	3 28	7	7	1	
32	25.1	6 23	28	6	20.9	26.1	6 24	24	6	21.9	27.1	6 25	20	5	22.9	28.1	6 26	16	5	23.9	29.1	5 27	12	5	24.9	♄	0.1	5 28	8	5	25.9
33	3	8 23	31	5	8	3	8 24	27	21.4	8	3	8 25	22	22.4	8	3	7 26	17	23.4	8	2	7 27	13	24.4	8	2	7 28	9	25.4	8	
34	4	26.0	23 34	20.4	6	4	27.0	24 29	3	6	4	28.0	25 24	3	6	4	9 26	19	2	6	4	9 27	14	3	6	4	5 28	10	2	6	
35	6	2 23	38	3	5	6	2 24	32	2	5	6	1 25	27	1	5	6	29.1	26 21	1	5	6	♄	0.1	27 16	1	5	6	1.0	28 11	1	4
36	8	4 23	41	1	20.3	8	4 24	35	0	21.3	8	3 25	29	0	22.3	8	3 26	23	0	23.3	8	3 27	17	0	3	8	2 28	11	24.9	3	
37	26.0	7 23	44	0	1	27.0	6 24	38	20.9	1	28.0	5 25	31	21.9	1	0	5 26	25	22.8	1	9	4 27	19	23.9	1	9	4 28	12	7	1	
38	2	9 23	48	19.9	0	2	8 24	41	8	0	2	7 25	34	7	0	29.2	7 26	27	7	0	♄	0.1	6 27	20	8	23.9	1.1	5 28	13	6	24.9
39	4	27.1	23 51	7	19.8	4	28.0	24 44	7	20.8	4	9 25	36	6	21.8	3	9 26	29	5	22.8	3	8 27	22	6	8	3	7 28	14	4	7	
40	6	3 23	54	6	6	6	2 24	47	6	6	6	29.1	25 39	4	6	5	♄	0.1	26 31	4	6	5	1.0	27 23	4	6	5	9 28	15	2	6
41	8	5 23	58	5	4	8	5 24	50	20.5	4	8	3 25	41	21.3	4	8	3 26	33	2	4	7	2 27	25	3	4	7	2.1	28 16	1	4	
42	27.1	7 24	1	19.3	3	28.0	7 24	53	3	2	29.0	5 25	44	1	2	♄	5 26	35	0	2	9	4 27	26	1	2	9	3 28	17	23.9	2	
43	3	9 24	5	2	1	2	9 24	56	2	0	2	7 25	46	0	0	0.2	8 26	37	21.9	0	1.2	7 27	28	22.9	0	2.1	5 28	18	7	0	
44	5	28.2	24 9	0	18.9	4	29.2	24 59	0	19.8	5	9 25	49	20.8	20.9	4	1.0	26 39	7	21.8	4	9 27	29	8	22.8	3	7 28	19	6	23.8	
45	8	4 24	12	18.9	7	6	4 25	2	19.8	6	7	♄	0.1	25 51	6	7	6	2 26	41	5	6	6	2 1	27 31	6	6	5	9 28	20	4	6
46	28.0	7 24	16	7	5	8	6 25	5	7	5	9	4 25	54	5	5	8	4 26	43	4	4	8	3 27	32	4	4	7	3 1	28 21	3	4	
47	2	9 24	20	5	3	29.0	8 25	8	5	3	♄	0.1	6 25	57	3	2	1.0	6 26	45	3	2	2.0	5 27	34	2	2	9	4 28	22	1	2
48	4	29.1	24 23	4	1	3	♄	0.1	25 11	3	1	3	9 25	59	1	0	2	8 26	47	1	0	2	7 27	35	0	0	3.2	6 28	24	22.9	0
49	7	4 24	27	18.2	17.9	6	3 25	15	2	18.9	6	1.1	26 2	19.9	19.8	5	2.1	26 50	20.9	20.8	5	9 27	37	21.8	21.8	4	8 28	25	7	22.8	
50	29.0	7 24	31	1	7	9	6 25	18	0	6	9	4 26	5	8	6	8	3 26	52	7	6	8	3.2	27 39	6	5	7	4 1	28 26	5	5	
51	3	9 24	35	0	5	♄	0.2	9 25	21	18.8	4	1.2	6 26	8	7	4	2.1	6 26	54	5	3	3.1	5 27	40	4	3	4.0	3 28	27	3	2
52	6	♄	0.2	24 39	17.8	3	5	1.1	25 25	6	2	5	9 26	11	5	1	4	8 26	56	3	1	4	7 27	42	2	0	3	5 28	28	1	21.9
53	9	5 24	43	6	0	8	4 25	29	4	17.9	8	2.2	26 14	3	18.8	7	3.0	26 59	1	19.8	7	9 27	44	0	20.7	6	7 28	29	21.9	6	
54	♄	0.2	8 24	48	4	16.7	1.1	7 25	32	2	6	2.1	5 26	17	1	5	3.0	3 27	1	19.9	5	4.0	4 27	46	20.8	4	9	5 0	28 31	7	3
55	6	1.1	24 52	2	4	5	2.0	25 36	0	3	5	8 26	20	18.9	2	4	6 27	4	7	2	3	5 27	48	6	1	5.2	3 28	32	4	0	
56	1.0	4 24	56	0	1	9	3 25	40	17.8	0	9	3.1	26 23	7	17.9	8	9 27	6	5	18.9	7	5 27	50	4	19.8	6	6 28	33	1	20.7	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

18 UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 5 51 17 } II ARC 87° 49'.2 } 28°						H. M. S. 5 55 38 } II 29° 88° 54'.6 }					H. M. S. 6 0 0 } 30° 90° 0'.0 }					H. M. S. 6 4 22 } 31° 91° 5'.4 }					H. M. S. 6 8 43 } 32° 92° 10'.8 }					H. M. S. 6 13 5 } 33° 93° 16'.2 }										
Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3						
22	28.6	28.9	27.58	26.9	27.3	29.6	29.9	28.59	28.0	28.4	0.6	1.0	0	0	29.0	29.4	1.6	2.0	1	1	0.1	0.4	2.7	3.1	2	2	1.1	1.4	3.7	4.1	3	2	2.2	2.4		
23	7	29.0	27.59	8	2	7	29	0	27.8	2	7	1	0	0	28.9	3	8	2	1	0	0	3	8	2	2	1	0	3	8	2	3	1	0	3		
24	9	2	28	0	6	1	9	2	29	0	7	1	9	3	0	0	7	1	9	3	1	0	29.8	1	9	4	2	0	0.8	1	4.0	4	2	59	1.8	1
25	29.0	4	28	1	5	26.9	9	4	29	1	6	0	1.0	4	0	0	6	0	2.0	4	0	59	6	0	3.1	5	1	59	6	0	1	5	2	58	7	0
26	2	5	28	2	26.4	8	0.2	5	29	1	4	27.8	2	1.6	0	0	4	28.8	2	2.6	0	59	5	29.8	2	3.6	1	58	5	0.8	2	4.6	2	57	5	1.8
27	3	7	28	3	2	7	3	7	29	1	27.3	7	3	7	0	0	28.3	7	3	7	0	59	3	7	3	8	1	57	3	7	4	8	2	55	3	7
28	5	8	28	4	1	5	4	8	29	2	1	5	4	9	0	0	1	6	5	9	0	58	2	6	5	9	1	56	2	5	4.5	9	2	54	2	5
29	29.6	28	5	25.9	26.4	0.6	1.0	29	2	0	4	1.6	2.0	0	0	0	4	2.6	3.0	0	58	0	4	3.6	4.1	1	55	0	4	6	5.1	2	53	0	4	
30	8	0.2	28	6	8	2	7	1	29	3	26.8	2	8	2	0	0	27.8	2	8	2	0	57	28.9	3	8	2	1	54	29.8	2	8	2	2	51	0.8	2
31	9	3	28	7	7	1	9	3	29	3	7	1	9	4	0	0	6	1	9	3	0	57	7	1	9	3	1	53	7	1	9	3	2	50	7	1
32	0.1	5	28	8	5	25.9	1.1	5	29	4	5	26.9	2.1	5	0	0	5	27.9	3.1	5	0	56	5	28.9	4.1	5	1	52	5	29.9	5.1	5	2	48	5	0.9
33	2	7	28	9	25.4	8	2	7	29	4	3	8	2	7	0	0	3	8	2	7	0	56	3	8	2	4.6	1	51	3	8	2	5.6	2	47	3	8
34	4	8	28	10	2	6	4	8	29	5	2	6	4	9	0	0	1	6	4	8	0	55	2	6	4	8	1	50	2	6	4	7	2	46	1	6
35	6	1.0	28	11	1	4	6	2.0	29	5	0	4	5	3.0	0	0	0	5	6	4.0	0	55	0	4	6	9	1	49	0	4	5	9	2	44	29.9	4
36	8	2	28	11	24.9	3	7	2	29	6	25.9	3	7	2	0	0	26.8	3	7	1	0	54	27.8	3	7	5.1	1	49	28.8	2	7	6.0	2	43	7	2
37	9	4	28	12	7	1	9	3	29	6	8	1	9	4	0	0	6	1	9	2	0	54	7	1	9	3	1	48	6	1	9	1	2	41	6	1
38	1.1	5	28	13	6	24.9	2.1	5	29	7	6	25.9	3.1	5	0	0	5	26.9	4.1	4	0	53	5	27.9	5.1	4	1	47	5	28.9	6.1	2	2	40	4	29.9
39	3	7	28	14	4	7	3	7	29	7	5	7	3	7	0	0	3	7	3	4.5	0	53	3	7	3	6	1	46	3	7	2	4	2	38	2	7
40	5	9	28	15	2	6	5	9	29	8	25.3	6	5	8	0	0	2	5	4	7	0	52	1	5	4	8	1	45	1	5	4	6.6	2	37	0	5
41	7	2.1	28	16	1	4	7	3.1	29	8	1	4	7	4.0	0	0	0	3	6	9	0	52	26.9	3	6	9	1	44	27.9	3	6	7	2	35	28.8	3
42	9	3	28	17	23.9	2	9	3	29	9	0	2	9	2	0	0	25.8	1	8	5.0	0	51	7	1	8	6.1	1	43	7	1	8	9	2	34	6	1
43	2.1	5	28	18	7	0	3.1	5	29	9	24.8	24.9	4.1	4	0	0	6	25.9	5.1	2	0	51	5	26.9	6.0	3	1	42	5	27.9	7.0	7.1	2	32	3	28.8
44	3	7	28	19	6	23.8	3	7	29	10	6	7	3	5	0	0	5	7	3	4	0	50	3	7	2	4	1	41	3	7	2	2	2	31	1	6
45	5	9	28	20	4	6	6	9	29	10	4	5	5	7	0	0	3	5	5	6	0	50	1	4	4	6	1	40	1	5	4	4	2	29	27.9	4
46	7	3.1	28	21	3	4	8	4.1	29	11	2	3	7	9	0	0	1	3	7	8	0	49	25.9	2	6	7	1	39	26.9	3	6	6	2	28	7	2
47	9	4	28	22	1	2	4.0	3	29	11	23.9	1	9	5.1	0	0	24.9	1	9	6.1	0	49	7	0	8	9	1	38	6	1	8	8	2	26	5	0
48	3.2	6	28	24	22.9	0	2	5	29	12	7	23.9	5.1	3	0	0	7	24.9	6.1	3	0	48	5	25.8	7.0	7.1	1	36	4	26.8	8.0	8.0	2	25	3	27.8
49	4	8	28	25	7	22.8	5	7	29	12	5	7	3	6	0	0	4	7	3	5	0	48	3	5	2	3	1	35	2	6	2	2	2	23	1	5
50	7	4.1	28	26	5	5	7	9	29	13	3	4	6	8	0	0	2	4	6	7	0	47	1	3	5	5	1	34	25.9	3	5	4	2	21	26.8	2
51	4.0	3	28	27	3	2	5.0	5.1	29	13	1	2	9	6.0	0	0	0	1	8	9	0	47	24.9	0	8	7	1	33	7	0	7	6	2	20	5	26.9
52	3	5	28	28	1	21.9	3	3	29	14	22.9	22.9	6.2	2	0	0	23.8	23.8	7.1	7.1	0	46	7	24.7	8.1	9	1	32	5	25.7	9.0	8	2	18	3	6
53	6	7	28	29	21.9	6	6	5	29	15	7	6	5	4	0	0	6	5	4	3	0	45	5	4	4	8.1	1	31	3	4	3	9.0	2	16	1	3
54	9	5.0	28	31	7	3	9	8	29	15	5	3	8	7	0	0	3	2	7	5	0	45	2	1	7	3	1	29	0	1	6	2	14	25.8	0	
55	5.2	3	28	32	4	0	6.2	6.1	29	16	2	0	7.1	7.0	0	0	0	22.9	8.0	8	0	44	23.9	23.8	9.0	6	1	28	24.7	24.8	9	4	2	12	5	25.7
56	6	6	28	33	1	20.7	5	3	29	16	0	21.7	4	2	0	0	22.8	6	3	8.0	0	44	7	5	3	9	1	27	4	4	10.2	5	2	10	2	3

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 6 17 26 } $\overline{56}$ ARC 94° 21'.5 } 4°					H. M. S. 6 21 47 } $\overline{55}$ 5°					H. M. S. 6 26 9 } $\overline{56}$ 6°					H. M. S. 6 30 30 } $\overline{56}$ 7°					H. M. S. 6 34 50 } $\overline{56}$ 8°					H. M. S. 6 39 11 } $\overline{56}$ 9°									
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3					
	°	Q	♈	♉	♊	♋	Q	♈	♉	♊	♋	Q	♈	♉	♊	♋	Q	♈	♉	♊	♋	Q	♈	♉	♊	♋	Q	♈	♉	♊	♋					
22	4.7	5.2	4	3	3.2	3.4	5.7	6.2	5	3	4.2	4.4	6.8	7.2	6	4	5.2	5.4	7.8	8.3	7	4	6.2	6.4	8.8	9.2	8	5	7.2	7.4	9.8	10.2	9	5	8.2	8.4
23	8	3	4	1	0	3	9	3	5	1	0	3	9	4	6	1	0	3	9	4	7	1	0	3	9	3	8	1	1	3	10.0	4	9	1	0	3
24	5.0	4	3	59	2.8	1	6.0	4	4	59	3.9	1	7.0	5	5	58	4.8	2	8.0	5	6	58	5.9	1	9.1	4	7	58	6.9	1	1	5	8	57	7.8	1
25	1	5	3	57	7	0	1	5	4	57	7	0	1	6	5	56	7	0	2	6	6	55	7	0	2	5	7	54	7	0	2	6	8	53	7	0
26	2	5.7	3	56	5	2.8	2	6.7	4	54	5	3.8	3	7	5	53	5	4.9	3	7	6	51	5	5.8	3	9.7	7	50	5	6.8	3	10.7	8	48	5	7.8
27	4	8	3	54	3	7	4	8	4	52	3	7	4	8	5	50	3	7	4	8	6	48	3	7	4	8	7	47	3	7	10.4	8	8	44	3	7
28	5.5	9	3	52	1	5	6.5	9	4	50	1	5	7.5	8.0	5	47	1	6	8.5	9.0	6	45	1	5	9.6	9	7	43	1	5	6	9	8	40	1	5
29	6	6.1	3	50	0	4	7	7.1	4	47	0	4	7	1	5	45	3.9	4	7	1	6	42	4.9	4	7	10.0	7	39	5.9	4	7	11.0	8	36	6.9	4
30	8	2	3	48	1.8	2	8	2	4	45	2.8	2	8	2	5	42	8	2	8	2	6	39	8	2	8	1	7	35	7	2	8	1	8	32	7	2
31	9	3	3	46	6	1	9	3	4	43	6	1	9	3	5	39	6	1	9.0	3	6	35	6	1	10.0	3	7	32	5	1	11.0	3	8	28	5	0
32	6.1	5	3	44	4	1.9	7.1	5	4	40	4	2.9	8.1	8.4	5	36	4	3.9	1	4	6	32	4	4.9	1	4	7	28	3	5.9	1	4	8	24	3	6.9
33	2	6.6	3	43	3	7	2	7.6	4	38	2	7	2	6	5	33	2	7	2	9.6	6	29	2	7	2	10.5	7	24	1	7	2	11.5	8	20	1	7
34	4	8	3	41	1	6	4	7	4	36	0	6	4	7	5	31	0	6	4	7	6	26	0	6	4	6	7	21	4.9	5	4	6	8	15	5.9	5
35	5	9	3	39	0.9	4	5	9	4	33	1.9	4	5	8	5	28	2.8	4	9.5	8	6	22	3.8	4	10.5	7	7	17	7	4	11.5	7	8	11	7	3
36	7	7.0	3	37	7	2	7	8.0	4	31	7	2	7	9.0	5	25	6	2	7	9	6	19	6	2	7	9	7	13	5	2	7	8	8	7	5	2
37	9	2	3	35	5	0	9	1	4	29	5	0	9	1	5	22	4	0	9	10.1	6	16	3	0	9	11.0	7	9	3	0	9	12.0	8	3	3	0
38	7.0	3	3	33	3	0.8	8.0	3	4	26	3	1.8	9.0	2	5	19	2	2.8	10.0	2	6	12	1	3.8	11.0	1	7	5	1	4.8	12.0	1	7	5	5.8	
39	2	5	3	31	1	7	2	4	4	24	1	6	2	3	5	16	0	6	2	3	6	9	2.9	6	2	2	7	1	3.9	6	2	2	7	5	4.9	6
40	4	6	3	29	$\overline{29.9}$	5	4	8.6	4	21	0.9	4	4	9.4	5	13	1.8	4	4	5	6	6	7	4	4	3	6	55	7	4	3	3	7	50	6	4
41	6	8	3	27	7	2	6	7	4	19	7	2	6	5	5	10	5	2	6	10.6	6	2	5	2	5	11.4	6	54	5	2	5	12.4	7	45	4	1
42	8	8.0	3	25	5	0	8	9	4	16	5	0	8	7	5	7	3	0	7	7	5	59	3	2.9	7	5	6	50	2	3.9	7	6	7	41	1	4.9
43	8.0	1	3	23	$\overline{29.8}$	$\overline{m}$	9.0	9.0	4	14	3	0.8	10.0	8	5	4	1	1.8	9	9	5	55	1	7	9	7	6	46	0	7	9	7	7	36	3.9	7
44	2	3	3	21	0	6	2	2	4	11	1	5	2	10.0	5	1	0.8	6	11.1	11.0	5	51	1.8	5	12.1	8	6	41	2.7	4	13.1	8	7	31	6	4
45	4	5	3	19	28.8	4	4	4	4	9	$\overline{29.9}$	3	4	2	4	58	6	4	3	2	5	48	6	2	2	12.0	6	37	5	2	2	13.0	7	27	4	1
46	6	8.6	3	17	6	2	6	5	4	6	6	1	5	3	4	55	4	2	5	3	4	44	3	0	4	2	6	33	3	0	4	1	7	22	1	3.9
47	8	7	3	15	4	0	8	7	4	3	$\overline{29.9}$	7	7	5	4	52	2	0	7	5	5	40	1	1.8	6	4	6	29	0	2.8	6	3	7	17	2.8	7
48	9.0	9	3	13	$\overline{28.8}$	$\overline{m}$	10.0	9	4	1	1	7	9	7	4	49	$\overline{29.9}$	0.7	9	11.7	5	37	0.9	6	9	5	6	25	1.8	6	8	4	7	12	5	5
49	2	9.1	3	10	27.9	5	2	10.1	3	58	28.9	4	11.1	8	4	45	7	4	12.1	8	5	33	6	3	13.1	7	6	20	5	3	14.0	13	6	7	3	2
50	4	3	3	8	7	2	4	2	3	55	6	1	4	11.0	4	42	4	1	3	9	5	29	3	0	3	8	6	16	2	0	2	7	7	2	0	2.9
51	7	5	3	6	4	27.9	6	3	3	52	4	28.8	6	2	4	39	$\overline{129.8}$	5	12.0	5	25	1	0.7	5	13.0	6	11	0.9	1.7	4	8	6	57	1.7	6	
52	9	7	3	4	2	6	9	5	3	49	1	5	8	4	4	35	28.9	5	7	2	5	21	$\overline{29.8}$	4	7	1	6	6	6	4	6	9	6	52	4	3
53	10.2	9	3	1	0	3	11.2	7	3	46	27.8	2	12.1	6	4	31	6	2	13.0	4	5	17	5	1	9	2	6	2	3	1	9	14	6	47	1	0
54	5	10.1	2	59	26.7	0	5	9	3	43	5	27.9	4	8	4	28	3	28.9	3	6	5	12	$\overline{229.8}$	14.2	4	5	57	0	0.7	15.2	3	6	41	0.8	16	
55	8	3	2	56	4	26.6	8	11.1	3	40	2	5	7	12.0	4	24	0	5	6	8	5	8	28.9	4	5	6	52	$\overline{29.7}$	3	6	5	6	36	5	2	
56	11.1	5	2	54	1	2	12.1	3	3	37	26.9	1	13.0	2	4	20	27.7	1	9	13.0	5	3	6	0	8	8	5	47	$\overline{29.9}$	8	7	6	30	1	0	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 6 39 11 } 9° ARC 99° 47'.7 }					H. M. S. 6 43 31 } 10° 100° 52'.8 }					H. M. S. 6 47 51 } 11° 101° 57'.8 }					H. M. S. 6 52 11 } 12° 103° 2'.7 }					H. M. S. 6 56 30 } 13° 104° 7'.5 }					H. M. S. 7 0 49 } 14° 105° 12'.3 }									
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3					
		Ω	♈	♉	♊	♋	Ω	♈	♉	♊	♋	Ω	♈	♉	♊	♋	Ω	♈	♉	♊	♋	Ω	♈	♉	♊	♋	Ω	♈	♉	♊	♋					
22	9.8	10.2	9	5	8.2	8.4	10.9	11.3	10	5	9.2	9.4	11.9	12.3	11	5	10.2	10.4	12.9	13.4	12	5	11.2	11.4	14.0	14.4	13	5	12.2	12.4	15.0	15.5	14	4	13.2	13.4
23	10.0	4	9	1	0	3	11.0	4	10	0	0	3	12.0	4	11	0	0	3	13.0	5	11	59	0	3	1	5	12	59	0	3	1	6	13	58	0	2
24	1	5	8	57	7.8	1	1	5	9	56	8.9	1	1	5	10	55	9.8	1	2	6	11	54	10.8	1	2	6	12	53	11.8	1	2	7	13	52	12.8	1
25	2	6	8	53	7	0	2	6	9	51	7	0	3	6	10	50	6	0	3	7	11	49	6	0	3	7	12	47	6	0	3	8	13	46	6	12.9
26	3	10.7	8	48	5	7.8	4	11.7	9	47	5	8.8	4	7	10	45	4	9.8	4	8	11	43	4	10.8	4	8	12	41	4	11.8	5	9	13	39	4	8
27	10.4	8	8	44	3	7	11.5	8	9	42	3	7	12.5	9	10	40	2	7	13.5	9	11	38	2	7	14.5	9	12	36	2	6	15.6	9	13	33	2	6
28	6	9	8	40	1	5	6	9	9	38	1	5	6	13.0	10	35	0	5	6	14.0	11	33	0	5	7	15.0	12	30	0	5	7	16.0	13	27	0	5
29	7	11.0	8	36	6.9	4	7	12.0	9	33	7.9	4	7	1	10	30	8.8	3	8	1	11	27	9.8	3	8	1	12	24	10.8	3	8	1	13	21	11.8	12.3
30	8	1	8	32	7	2	9	2	9	29	7	2	9	2	10	25	6	2	9	2	11	22	6	2	9	2	12	18	6	2	9	2	13	14	5	1
31	11.0	3	8	28	5	0	12.0	3	9	24	5	0	13.0	3	10	20	4	0	14.0	3	11	16	4	0	15.0	3	12	12	4	0	16.0	3	13	8	3	0
32	1	4	8	24	3	6.9	1	4	9	19	2	7.9	1	4	10	15	2	8.8	1	14.4	11	11	2	9.8	2	15.4	12	6	1	10.8	2	16.4	13	1	1	11.8
33	2	11.5	8	20	1	7	3	5	9	15	0	7	3	13.5	10	10	0	7	3	5	11	5	0	7	3	5	12	0	9.9	6	3	5	12	55	10.9	6
34	4	6	8	15	5.9	5	4	12.6	9	10	6.8	5	4	6	10	5	7.8	5	4	6	11	0	8.7	5	4	6	11	54	7	5	4	5	12	49	6	4
35	11.5	7	8	11	7	3	12.6	7	9	5	6	3	13.6	7	10	0	6	3	14.6	7	10	54	5	3	15.6	7	11	48	5	3	16.6	6	12	42	4	2
36	7	8	8	7	5	2	7	8	9	1	5	1	7	8	9	55	4	1	7	14.7	10	48	3	1	7	15.7	11	42	3	1	7	16.7	12	35	2	1
37	9	12.0	8	3	3	0	9	9	8	56	3	6.9	9	9	9	49	2	7.9	9	8	10	43	1	8.9	9	8	11	36	1	9.9	8	7	12	29	0	10.9
38	12.0	1	7	58	1	5.8	13.0	13.0	8	51	0	7	14.0	14.0	9	44	0	7	15.0	9	10	37	7.9	7	16.0	9	11	30	8.8	7	17.0	8	12	22	9.7	6
39	2	2	7	54	4.9	6	2	1	8	46	5.8	5	2	1	9	39	6.7	5	2	15.0	10	31	6	5	1	16.0	11	23	6	4	1	9	12	15	5	4
40	3	3	7	50	6	4	3	2	8	41	5	3	3	2	9	33	5	3	3	1	10	25	4	3	3	1	11	17	3	2	3	17.0	12	8	2	2
41	5	12.4	7	45	4	1	5	3	8	37	3	1	5	3	9	28	2	1	5	2	10	19	1	0	5	2	11	10	0	0	5	1	12	2	8.9	0
42	7	6	7	41	1	4.9	7	13.4	8	32	0	5.9	7	4	9	22	0	6.8	7	3	10	13	6.9	7.8	6	3	11	4	7.8	8.8	6	1	11	55	7	9.7
43	9	7	7	36	3.9	7	9	5	8	26	4.8	6	9	14.6	9	17	5.7	6	8	15.4	10	7	6	5	8	4	10	57	5	5	8	2	11	47	4	5
44	13.1	8	7	31	6	4	14.1	7	8	21	5	4	15.0	7	9	11	4	3	16.0	5	10	1	3	3	17.0	16.5	10	51	2	2	18.0	3	11	40	1	2
45	2	13.0	7	27	4	1	2	8	8	16	3	1	1	8	9	5	1	1	1	6	9	55	0	0	1	6	10	44	6.9	0	1	17.4	11	33	7.8	8.9
46	4	1	7	22	1	3.9	4	9	8	11	0	4.9	3	9	9	0	4.9	5.9	3	8	9	48	5.8	6.8	3	7	10	37	7	7.7	2	5	11	26	6	7
47	6	3	7	17	2.8	7	6	14.1	8	5	3.8	7	5	15.0	8	54	7	7	5	16.0	9	42	6	6	5	8	10	30	4	5	4	7	11	18	3	5
48	8	4	7	12	5	5	8	2	8	0	5	4	8	1	8	48	4	4	7	1	9	35	3	3	7	9	10	23	1	3	6	8	11	10	0	2
49	14.0	13.6	7	7	3	2	15.0	3	7	55	2	1	16.0	2	8	42	1	1	9	2	9	29	4.9	0	9	17.0	10	16	5.8	0	8	9	1	3	6.7	7.9
50	2	7	7	2	0	2.9	2	14.5	7	49	2.9	3.8	2	4	8	36	3.8	4.8	17.1	3	9	22	6	5.7	18.1	1	10	9	5	6.7	19.1	18.0	10	55	3	6
51	4	8	6	57	1.7	6	4	6	7	43	6	5	4	15.5	8	29	5	5	3	16.5	9	15	3	4	3	2	10	1	1	4	3	1	10	47	0	3
52	6	9	6	52	4	3	6	8	7	37	3	2	6	7	8	23	2	2	5	6	9	8	0	1	5	4	9	54	4.8	1	5	2	10	39	5.7	0
53	9	14.1	6	47	1	0	8	15.0	7	31	0	2.9	8	8	8	16	2.9	3.9	7	7	9	1	3.7	4.8	7	17.5	9	46	5	5.7	7	18.4	10	31	4	6.6
54	15.2	3	6	41	0.8	1.6	16.1	1	7	25	1.7	5	17.1	16.0	8	10	5	5	18.0	8	8	54	3	4	9	7	9	38	2	3	9	5	10	22	0	2
55	5	5	6	36	5	2	4	3	7	19	3	1	4	1	8	3	1	1	3	17.0	8	47	2.9	0	19.2	8	9	30	3.8	4.9	20.2	6	10	14	4.6	5.8
56	8	7	6	30	1	0.8	7	5	7	13	0.9	1.7	7	3	7	56	1.7	2.7	6	1	8	39	5	3.6	5	9	9	22	4	5	4	8	10	5	2	4

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

Lat.	H. M. S. } $\varnothing$ 15° SID. T. 7 5 8 ARC 106° 16'.9					H. M. S. } $\varnothing$ 16° 7 9 26 107° 21'.5					H. M. S. } $\varnothing$ 17° 7 13 44 108° 25'.9					H. M. S. } $\varnothing$ 18° 7 18 1 109° 30'.2					H. M. S. } $\varnothing$ 19° 7 22 18 110° 34'.4					H. M. S. } $\varnothing$ 20° 7 26 34 111° 38'.4					
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
22	16.1	16.6	15 4	14.2	14.4	17.1	17.6	16 3	15.2	15.4	18.1	18.7	17 3	16.2	16.3	19.1	19.8	18 2	17.2	17.3	20.2	20.8	19 1	18.2	18.3	21.2	21.9	20 6	19.1	19.3	
23	2	6	14 57	0	2	2	7	15 56	0	2	2	8	16 55	0	2	2	8	17 54	0	2	3	9	18 52	17.9	1	3	9	19 51	18.9	1	
24	3	7	14 51	13.8	1	3	8	15 49	14.8	1	3	9	16 48	15.8	0	3	9	17 46	16.7	0	4	9	18 44	7	0	4	22 0	19 42	7	0	
25	4	8	14 44	6	13.9	4	9	15 42	6	14.9	4	9	16 40	5	15.9	4	20.0	17 38	5	16.9	5	21.0	18 36	5	17.8	5	0	19 33	4	18.8	
26	5	9	14 37	4	8	17.5	9	15 35	3	7	18.5	19.0	16 33	3	7	19.5	0	17 30	3	7	20.6	1	18 27	3	7	21.6	1	19 24	2	6	
27	16.6	17.0	14 31	2	6	6	18.0	15 28	1	6	6	1	16 25	1	6	7	1	17 22	1	5	7	1	18 19	0	5	7	1	19 16	0	5	
28	7	1	14 24	12.9	4	7	1	15 21	13.9	4	8	1	16 18	14.9	4	8	2	17 14	15.8	4	8	2	18 10	16.8	3	8	2	19 7	17.7	3	
29	8	1	14 17	7	3	8	2	15 14	7	3	9	2	16 10	6	2	9	2	17 6	6	2	9	2	18 2	6	2	9	2	22 2	18 58	5	1
30	9	2	14 10	5	1	18.0	2	15 6	5	1	19.0	3	16 2	4	1	20.0	20.3	16 58	4	0	21.0	21.3	17 53	3	0	22.0	3	18 49	3	0	
31	17.1	3	14 4	3	12.9	1	3	14 59	2	13.9	1	3	15 54	2	14.9	1	3	16 50	1	15.9	1	3	17 45	1	16.8	1	3	18 40	0	17.8	
32	2	17.4	13 57	0	8	2	18.4	14 52	0	8	2	4	15 47	13.9	7	2	4	16 42	14.9	7	2	4	17 36	15.8	7	3	4	18 31	16.8	6	
33	3	5	13 50	11.8	6	3	5	14 44	12.8	6	3	5	15 39	7	5	3	5	16 33	6	5	4	4	17 27	6	5	4	4	18 22	5	4	
34	4	5	13 43	6	4	18.4	5	14 37	5	4	19.5	5	15 31	5	4	20.5	20.5	16 25	4	3	21.5	5	17 19	3	3	22.5	22	5	18 12	2	2
35	17.6	6	13 36	3	2	6	6	14 30	3	2	6	6	15 23	2	2	6	6	16 17	1	1	6	21.5	17 10	1	1	6	5	18 3	0	0	
36	7	17.7	13 29	1	0	7	18.7	14 22	1	0	7	19.6	15 15	12.9	0	7	6	16 8	13.9	14.9	7	6	17 1	14.8	15.9	7	6	17 54	15.7	16.8	
37	8	8	13 22	10.9	11.8	9	8	14 15	11.9	12.8	9	7	15 7	7	13.8	9	7	16 0	6	7	9	7	16 52	5	7	9	6	17 44	5	6	
38	18.0	9	13 15	7	6	19.0	8	14 7	6	6	20.0	8	14 59	5	5	21.0	20.8	15 51	4	5	22.0	7	16 43	3	5	23.0	22	7	17 35	3	4
39	1	9	13 7	4	4	1	9	13 59	3	4	1	9	14 51	2	3	1	8	15 43	1	3	1	21.8	16 34	1	2	1	7	17 25	0	2	
40	3	18.0	13 0	1	2	3	19.0	13 51	0	1	3	9	14 43	11.9	1	3	9	15 34	12.9	1	3	8	16 25	13.8	0	3	7	17 16	14.7	0	
41	5	1	12 53	9.8	10.9	4	1	13 43	10.8	11.9	4	20.0	14 34	7	12.9	4	9	15 25	6	13.8	4	9	16 16	5	14.8	4	8	17 6	4	15.7	
42	6	2	12 45	6	7	19.6	1	13 35	5	6	20.6	1	14 26	4	6	21.6	21.0	15 16	3	6	22.6	9	16 6	2	5	23.6	22.8	16 56	0	5	
43	8	3	12 37	3	4	8	2	13 27	2	4	7	1	14 17	1	3	7	1	15 7	0	3	7	22.0	15 57	12.9	3	7	8	16 46	13.7	2	
44	19.0	18.4	12 30	0	2	9	19.3	13 19	9.9	1	9	2	14 9	10.8	1	9	2	14 58	11.6	0	9	1	15 47	5	0	9	9	16 36	4	0	
45	1	5	12 22	8.7	9.9	20.1	4	13 11	6	10.9	21.1	3	14 0	5	11.8	22.1	2	14 49	3	12.8	23.1	1	15 37	2	13.7	24.0	9	16 26	1	14.7	
46	2	6	12 14	4	6	2	5	13 2	3	6	2	20.4	13 51	1	5	2	3	14 39	0	5	2	2	15 27	11.9	4	2	23.0	16 15	12.7	4	
47	4	6	12 6	1	4	4	6	12 54	0	4	4	4	13 42	9.8	3	3	21.3	14 30	10.7	2	4	4	2	15 17	6	2	3	0	16 5	4	1
48	6	18.7	11 58	7.8	1	6	19.7	12 45	8.7	1	5	5	13 33	5	0	5	4	14 20	4	0	6	22.3	15 7	3	12.9	4	1	15 54	1	11.8	
49	8	8	11 50	5	8.8	8	8	12 36	4	9.8	7	5	13 23	2	10.7	7	4	14 10	1	11.7	8	3	14 57	10.9	6	24.6	1	15 43	11.8	8	
50	20.0	9	11 41	2	5	21.0	8	12 28	0	5	9	20.6	13 14	8.9	4	9	5	14 0	9.7	4	9	4	14 46	6	3	8	2	15 31	4	2	
51	2	19.0	11 33	6.8	2	2	9	12 19	7.7	2	22.1	7	13 4	5	1	23.1	6	13 50	4	1	24.0	4	14 35	2	11.9	9	23.3	15 21	0	12.9	
52	4	1	11 24	5	7.9	4	20.0	12 9	4	8.9	3	8	12 54	2	9.8	3	21.7	13 39	0	10.7	2	22.5	14 24	9.8	6	25.1	1	15 9	10.6	5	
53	6	2	11 15	2	6	6	1	12 0	0	5	5	9	12 44	7.8	4	5	7	13 29	8.6	3	4	6	14 13	4	3	3	4	14 57	2	1	
54	8	3	11 6	5.8	2	8	2	11 50	6.6	1	7	21.0	12 34	4	0	7	8	13 18	2	9.9	6	6	14 2	0	10.9	5	4	14 45	9.1	11.7	
55	21.1	4	10 57	4	6.8	22.0	3	11 40	2	7.7	23.0	1	12 24	0	8.6	9	9	12 7	7.8	5	8	7	13 50	8.6	4	7	5	14 33	4	3	
56	3	5	10 48	0	3	2	4	11 30	5.8	2	2	2	12 13	6.6	1	24.1	22.0	12 56	4	0	25.0	7	13 38	2	9.9	9	6	14 21	0	10.9	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 7 26 34 } $\overline{20}^{\circ}$ ARC 111° 38'.4					H. M. S. 7 30 49 } $\overline{21}^{\circ}$ 112° 42'.4					H. M. S. 7 35 5 } $\overline{22}^{\circ}$ 113° 46'.2					H. M. S. 7 39 19 } $\overline{23}^{\circ}$ 114° 49'.8					H. M. S. 7 43 33 } $\overline{24}^{\circ}$ 115° 53'.3					H. M. S. 7 47 47 } $\overline{25}^{\circ}$ 116° 56'.7					
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌
22	21.2	21.9	20 0	19.1	19.3	22.3	23.0	20 58	20.1	20.2	23.3	24.0	21 57	21.1	21.2	24.4	25.0	22 55	22.1	22.2	25.4	26.1	23 53	23.0	23.2	26.4	27.1	24 51	24.0	24.1
23	3	9	19 51	18.9	1	4	0	20 49	19.9	1	4	0	21 47	20.8	1	5	1	22 45	21.8	0	5	1	23 43	22.8	0	5	1	24 40	23.7	0
24	4	22	0 19 42	7	0	5	0	20 40	6	19.9	5	1	21 38	6	20.9	5	1	22 35	6	21.9	6	1	23 32	5	22.8	6	1	24 29	5	23.8
25	5	0	19 33	4	18.8	6	1	20 31	4	8	6	1	21 28	4	7	6	1	22 25	3	7	7	1	23 22	3	7	7	2	24 18	2	6
26	21.6	1	19 24	2	6	22.7	1	20 21	2	6	23.7	1	21 18	1	6	24.7	2	22 15	1	6	25.8	2	23 11	0	5	8	2	24 7	0	5
27	7	1	19 16	0	5	8	23.2	20 12	18.9	5	8	24.2	21 9	19.9	4	8	25.2	22 5	20.8	4	9	26.2	23 1	21.8	3	9	27.2	23 56	22.7	3
28	8	2	19 7	17.7	3	9	2	20 3	7	3	9	2	20 59	6	2	9	2	21 54	6	2	9	2	22 50	5	2	27.0	2	23 45	5	1
29	9	22.2	18 58	5	1	23.0	2	19 53	5	1	24.0	2	20 49	4	1	25.0	2	21 44	3	0	26.0	2	22 39	3	0	1	2	23 34	2	0
30	22.0	3	18 49	3	0	1	3	19 44	2	18.9	1	3	20 39	2	19.9	1	3	21 34	1	20.9	1	3	22 29	0	21.8	2	3	23 23	0	22.8
31	1	3	18 40	0	17.8	2	3	19 35	0	8	2	3	20 29	18.9	7	2	3	21 24	19.8	7	2	3	22 18	20.8	6	3	3	23 12	21.7	6
32	3	4	18 31	16.8	6	3	23.4	19 25	17.7	6	3	24.3	20 19	7	5	3	25.3	21 13	6	5	3	26.3	22 7	5	5	4	27.3	23 1	4	4
33	4	4	18 22	5	4	4	4	19 16	5	4	4	4	20 9	4	4	4	4	21 3	3	3	4	3	21 56	2	3	27.5	3	22 50	2	2
34	22.5	22.5	18 12	2	2	23.5	4	19 6	2	2	24.5	4	19 59	1	2	25.5	4	20 52	0	1	26.5	4	21 46	0	1	6	3	22 38	20.9	0
35	6	5	18 3	0	0	6	5	18 56	16.9	0	6	4	19 49	17.8	0	6	4	20 42	18.8	19.9	6	4	21 35	19.7	20.9	7	3	22 27	6	21.8
36	7	6	17 54	15.7	16.8	7	5	18 47	7	17.8	7	5	19 39	6	18.8	8	4	20 31	5	7	8	4	21 23	4	7	8	3	22 15	3	6
37	9	6	17 44	5	6	9	23.6	18 37	5	6	9	24.5	19 28	3	6	9	25.4	20 21	2	5	9	26.4	21 12	1	5	9	27.3	22 4	0	4
38	23.0	22.7	17 35	3	4	24.0	6	18 27	2	4	25.0	6	19 18	0	3	26.0	4	20 10	17.9	3	27.0	4	21 1	18.8	3	28.0	4	21 52	19.7	2
39	1	7	17 25	0	2	1	7	18 17	15.9	2	1	6	19 8	16.7	1	1	5	19 59	6	1	1	5	20 50	5	0	1	4	21 41	4	0
40	3	7	17 16	14.7	0	3	7	18 7	6	16.9	3	6	18 57	4	17.9	2	5	19 48	3	18.9	2	5	20 38	2	19.8	2	4	21 29	1	20.8
41	4	8	17 6	4	15.7	4	7	17 56	2	7	4	7	18 47	0	6	4	5	19 37	16.9	6	4	5	20 27	17.8	6	4	4	21 17	18.7	5
42	23.6	22.8	16 56	0	5	24.5	23.8	17 46	14.9	4	25.5	24.7	18 36	15.7	4	26.5	25.5	19 25	6	3	27.5	26.5	20 15	5	3	28.5	27.4	21 4	4	2
43	7	8	16 46	13.7	2	7	8	17 36	6	2	7	7	18 25	4	1	7	5	19 14	3	1	6	6	20 3	2	0	6	4	20 52	0	0
44	9	9	16 36	4	0	8	9	17 25	3	15.9	8	8	18 14	1	16.9	8	6	19 2	0	17.8	8	6	19 51	16.9	18.8	8	4	20 39	17.7	19.7
45	24.0	9	16 26	1	14.7	25.0	9	17 14	13.9	6	26.0	8	18 2	14.8	6	27.0	6	18 50	15.7	5	9	6	19 39	6	5	9	4	20 26	4	4
46	2	23.0	16 15	12.7	4	1	24.0	17 3	6	4	1	8	17 51	5	3	1	25.6	18 38	3	2	28.0	6	19 26	2	2	29.0	5	20 13	1	1
47	3	0	16 5	4	1	2	0	16 52	3	1	2	24.9	17 39	1	0	2	7	18 26	0	0	1	26.7	19 14	15.8	17.9	1	27.5	20 0	16.7	18.8
48	4	1	15 54	1	13.8	4	0	16 41	0	14.8	4	9	17 28	13.8	15.7	3	7	18 14	14.7	16.7	3	7	19 1	5	6	3	5	19 47	4	5
49	24.6	1	15 43	11.8	5	25.6	1	16 29	12.6	5	26.5	9	17 16	5	4	27.5	7	18 2	3	3	5	7	18 48	2	3	4	5	19 33	0	2
50	8	2	15 32	4	2	8	1	16 18	2	1	7	9	17 3	1	1	7	25.8	17 49	13.9	0	28.6	7	18 34	14.8	16.9	29.6	5	19 19	15.6	17.9
51	9	23.3	15 21	0	12.9	9	24.1	16 6	11.8	13.8	8	25.0	16 51	12.7	14.8	8	8	17 36	5	15.7	7	7	18 21	4	6	7	5	19 5	2	6
52	25.1	3	15 9	10.6	5	26.1	2	15 54	4	5	27.0	0	16 38	3	4	9	9	17 23	1	3	9	26.8	18 7	0	2	9	27.6	18 51	14.8	2
53	3	4	14 57	2	1	3	3	15 41	0	1	2	1	16 25	11.9	1	28.1	9	17 9	12.7	14.9	29.1	8	17 53	13.6	15.8	♏	6	18 36	4	16.8
54	5	4	14 45	9.8	11.7	5	3	15 29	10.6	12.7	4	1	16 12	5	13.7	3	26.0	16 55	3	5	3	8	17 38	1	4	0.2	6	18 21	13.9	4
55	7	5	14 33	4	3	7	4	15 16	2	3	6	2	15 59	0	2	5	0	16 41	11.8	1	5	8	17 24	6	0	4	6	18 6	4	15.9
56	9	6	14 20	0	10.9	9	5	15 3	9.8	11.8	8	3	15 45	10.6	12.7	7	1	16 27	3	13.6	7	9	17 9	12.1	14.5	6	7	17 50	12.9	4

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 7 51 59 } $\overline{\text{♁}}$ 26° ARC 117° 59'.9					H. M. S. 7 56 12 } $\overline{\text{♁}}$ 27° 119° 2'.9					H. M. S. 8 0 23 } $\overline{\text{♁}}$ 28° 120° 5'.8					H. M. S. 8 4 34 } $\overline{\text{♁}}$ 29° 121° 8'.5					H. M. S. 8 8 44 } $\overline{\text{♁}}$ 0° 122° 11'.1					H. M. S. 8 12 54 } $\overline{\text{♁}}$ 1° 123° 13'.4					
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
	♊	♋	♌	♍	♎	♏	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓	♊	♋	♌	♍	♎	♏
22	27.5	28.2	25.49	25.0	25.1	28.5	29.2	26.46	25.9	26.1	29.6	0.2	27.43	26.9	27.0	0.6	1.2	28.40	27.9	28.0	1.7	2.2	29.37	28.8	28.9	2.7	3.2	0.33	29.7	29.9		
23	6	2	25.37	24.7	24.9	6	2	26.34	7	25.9	7	2	27.31	7	26.8	7	2	28.27	6	27.8	7	2	29.24	5	8	8	2	0	20	5	7	
24	7	2	25.26	5	8	7	2	26.22	4	7	7	2	27.19	4	7	8	2	28.15	3	6	8	2	29.11	3	6	9	2	0	7	2	6	
25	7	2	25.14	2	6	8	2	26.10	2	6	8	2	27.7	1	5	9	2	28.3	1	5	9	2	28.58	0	4	9	2	7	54	28.9	4	
26	8	2	25.3	0	4	9	2	25.59	24.9	4	9	2	26.55	25.9	4	9	2	27.50	26.8	3	2.0	2	28.45	27.7	3	3.0	3.2	29.41	7	2		
27	9	28.2	24.52	23.7	3	9	29.2	25.47	7	2	♏	0.2	26.43	6	2	1.0	1.2	27.38	5	1	1	2.2	28.33	5	1	1	1	29.27	4	0		
28	28.0	2	24.41	5	1	29.0	2	25.36	4	1	0.1	2	26.30	4	0	1	2	27.25	3	0	1	2	28.20	2	27.9	2	1	29.14	1	28.9		
29	1	2	24.29	2	23.9	1	2	25.24	2	24.9	2	2	26.18	1	25.8	2	2	27.13	0	26.8	2	1	28.7	26.9	7	3	1	29	1	27.9	7	
30	2	2	24.18	0	7	2	2	25.12	23.9	7	2	2	26.6	24.8	7	3	2	27.0	25.7	6	2.3	1	27.54	6	6	3.3	3.1	28.47	6	5		
31	3	2	24.6	22.7	6	3	2	25.0	6	5	3	2	25.54	5	5	1.4	2	26.47	5	4	4	1	27.41	4	4	4	1	28.34	3	3		
32	4	28.2	23.55	4	4	4	29.2	24.48	3	3	4	0.2	25.41	3	3	5	1.2	26.34	2	2	5	2.1	27.27	1	2	5	1	28.20	0	1		
33	28.5	3	23.43	1	2	29.5	2	24.36	1	1	0.5	2	25.29	0	1	5	1	26.22	24.9	0	6	1	27.14	25.5	0	6	0	28	6	26.7	27.9	
34	6	3	23.31	21.9	0	6	2	24.24	22.8	0	6	2	25.16	23.7	24.9	6	1	26.9	6	25.9	2.7	1	27.1	5	26.8	3.7	3.0	27.53	4	8		
35	7	3	23.19	6	22.8	7	2	24.12	5	23.8	7	2	25.4	4	7	1.7	1	25.56	3	7	8	1	26.47	2	6	8	0	27.39	1	6		
36	8	3	23.7	3	6	8	2	23.59	2	6	8	2	24.51	1	5	8	1	25.42	0	5	8	0	26.34	24.9	4	9	0	27.24	25.5	4		
37	9	28.3	22.55	0	4	9	29.2	23.47	21.9	3	9	0.2	24.38	22.8	3	9	1.1	25.29	23.7	2	9	2.0	26.20	6	2	4.0	0	27.10	4	1		
38	29.0	3	22.43	20.7	2	♏	2	23.34	6	1	1.0	2	24.25	5	1	2.0	1	25.16	4	0	3.0	0	26.6	3	0	6	2	26.56	1	26.9		
39	1	3	22.31	3	21.9	0.1	2	23.22	3	22.9	1	2	24.12	2	23.8	1	1	25.2	1	24.8	1	0	25.52	0	25.7	1	9	26.42	24.8	7		
40	2	3	22.19	0	7	2	2	23.9	20.9	7	2	2	23.58	21.8	6	2	1	24.48	22.7	6	2	0	25.38	23.6	5	2	9	26.27	4	5		
41	4	3	22.6	19.7	5	3	2	22.56	6	4	3	2	23.45	5	4	3	1.1	24.34	4	3	3	0	25.23	2	3	4.3	9	26.12	1	2		
42	29.5	28.3	21.53	3	2	5	29.2	22.42	2	1	5	0.2	23.31	1	1	5	0	24.20	0	0	4	1.9	25.9	22.9	0	4	8	25.57	23.7	25.9		
43	6	3	21.40	0	20.9	0.6	2	22.29	19.9	21.9	1.6	1	23.17	20.8	22.8	2.6	0	24.6	21.6	23.8	3.5	9	24.54	5	24.7	6	28	25.42	3	7		
44	7	3	21.27	18.6	7	7	2	22.16	5	6	7	1	23.3	4	5	7	0	23.51	3	5	6	9	24.39	1	4	7	8	25.26	0	4		
45	9	4	21.14	3	4	8	2	22.2	2	3	8	1	22.49	0	3	8	1.0	23.37	20.9	2	7	9	24.24	21.7	2	4.7	8	25.11	22.4	1		
46	♏	4	21.1	17.9	1	9	2	21.48	18.8	0	9	1	22.35	19.6	0	9	0	23.22	5	22.9	8	9	24.8	3	23.9	8	7	24.55	2	24.8		
47	0.1	28.4	20.47	5	19.8	1.0	29.2	21.34	5	20.7	2.0	0.1	22.20	3	21.7	3.0	0	23.7	2	6	9	1.8	23.53	20.9	6	9	7	24.39	21.8	5		
48	2	4	20.33	2	5	2	2	21.19	1	4	1	1	22.5	18.9	4	1	0	22.51	19.8	3	4.0	8	23.37	5	2	5.0	2.7	24.22	4	2		
49	4	4	20.19	16.8	2	3	2	21.5	17.7	0	2	1	21.50	5	0	3	0.9	22.35	4	0	1	8	23.21	1	22.9	2	7	24.5	0	23.9		
50	5	4	20.5	4	18.8	5	2	20.50	3	19.7	4	1	21.35	1	20.7	4	9	22.19	18.9	21.6	3	8	23.4	19.7	5	3	6	23.49	20.6	5		
51	7	4	19.50	0	5	1.6	2	20.35	16.9	4	2.5	1	21.19	17.7	4	3.5	9	22.3	5	3	4	8	22.47	3	2	4	6	23.31	1	2		
52	8	28.4	19.35	15.6	1	8	29.2	20.19	5	0	7	0.1	21.3	3	0	6	9	21.47	1	20.9	4.5	1.7	22.30	18.9	21.9	5.5	2	21.13	19.6	22.5		
53	1.0	4	19.20	2	17.7	9	2	20.3	0	18.6	8	0	20.47	16.8	19.6	8	0.9	21.30	17.6	5	6	7	22.12	4	5	7	5	22.55	1	4		
54	1	4	19.4	7	3	2.1	2	19.47	15.5	2	3.0	0	20.30	3	1	9	9	21.12	1	1	8	7	21.55	17.9	0	8	5	22.37	18.6	21.8		
55	3	4	18.49	14.2	16.8	3	2	19.31	0	17.8	2	0	20.13	15.8	18.7	4.1	8	20.5	16.6	19.6	5.0	6	21.36	4	20.5	6.0	4	22.18	1	4		
56	5	5	18.32	13.7	3	4	2	19.14	14.5	3	3	0	19.55	3	1	2	8	20.37	1	1	1	6	21.18	16.9	0	1	4	21.59	17.6	21.5		

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. } SID. T. 8 12 54 } ARC 123° 13'.4 } 1°						H. M. S. } 8 17 3 } 124° 15'.6 } 2°					H. M. S. } 8 21 11 } 125° 17'.7 } 3°					H. M. S. } 8 25 18 } 126° 19'.5 } 4°					H. M. S. } 8 29 25 } 127° 21'.2 } 5°					H. M. S. } 8 33 31 } 128° 22'.7 } 6°				
11.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	☉	☽	♂	♀	♃	☉	☽	♂	♀	♃	☉	☽	♂	♀	♃	☉	☽	♂	♀	♃	☉	☽	♂	♀	♃	☉	☽	♂	♀	♃
22	2.7	3.2	0 33	29.7	29.9	3.8	4.3	0 129	0.6	0.8	4.9	5.2	0 225	1.6	1.8	5.9	6.3	0 321	2.5	2.7	6.9	7.2	0 417	3.5	3.7	8.0	8.2	0 512	4.4	4.6
23	8	2	0 20	5	7	9	2	1 16	4	7	9	2	2 12	3	6	6.0	2	3 7	3	6	7.0	2	4 2	2	5	0	2	4 57	1	5
24	9	2	0 7	2	6	9	2	1 2	1	5	5.0	2	1 58	1	5	0	2	2 53	0	4	1	2	3 48	2.9	4	1	1	4 42	3.8	3
25	9	2	29 54	28.9	4	4.0	2	0 49	29.8	3	1	2	1 44	0.8	3	1	1	2 39	1.7	2	1	1	3 33	6	2	2	1	4 27	6	1
26	3.0	3.2	29 41	7	2	1	2	0 35	6	2	1	5.1	1 30	5	1	2	1	2 24	4	1	2	7.1	3 18	4	0	2	8.0	4 12	3	0
27	1	1	29 27	4	0	1	4.1	0 22	3	0	2	1	1 16	2	0	2	6.1	2 10	2	1.9	3	0	3 4	1	2.8	8.3	0	3 57	0	3.8
28	2	1	29 14	1 28.9	2	1	0 8	0 29.8	3	1	1	2	0	0.8	6.3	0	1 55	0.9	7	7.3	0	2 49	1.8	7	3	0	3 42	2.7	6	
29	3	1	29 1	27.9	7	4.3	1 29 54	28.7	6	5.3	0	0 48	29.7	6	4	0	1 41	6	5	4	0	2 34	5	5	4	7.9	3 27	4	4	
30	3.3	3.1	28 47	6	5	4	1 29 40	5	5	4	5.0	0 34	4	4	4	0	1 26	3	4	5	6.9	2 19	2	3	5	9	3 12	1	3	
31	4	1	28 34	3	3	5	4.0 29 27	2	3	5	0	0 19	1	2	5	5.9	1 12	0	2	5	9	2	4	0.9	1	6	8	2 56	1.8	1
32	5	1	28 20	0	1	5	0 29 13	27.9	1	6	0	0 5	28.8	0	6	9	0 57	29.7	0	6	8	1 49	6	1.9	8.6	8	2 41	5	2.9	
33	6	0	28 6	26.7	27.9	4.6	0 28 59	6 28.9	5.7	4.9	29 51	5 29.8	6.7	9	0 42	4	0.8	7.7	8	1 34	3	7	7	7	7	7	2 25	2	7	
34	3.7	3.0	27 53	4	8	7	0 28 44	3	7	7	9	29 36	2	7	8	8	0 27	1	6	8	8	1 18	0	5	8	7.7	2 9	0.9	5	
35	8	0	27 39	1	6	8	3.9 28 30	0	5	8	9	29 21	27.9	5	8	8	0 12	28.8	4	8	6.7	1 3	29.6	3	8	6	1 53	5	3	
36	9	0	27 24	25.8	4	9	9 28 16	26.6	3	9	8	29 6	5	3	9	5.8	29 57	4	2	9	7	0 47	3	1	9	6	1 37	2	1	
37	4.0	0	27 10	4	1	5.0	9 28 1	3	1	6.0	8	28 51	2	0	7.0	7	29 41	1	0	8.0	6	0 31	0	0.9	9.0	5	1 21	29.9	1.9	
38	0	2.9	26 56	1 26.9	1	9	27 46	0 27.9	1	4.8	28 36	26.9	28.8	1	7	29 26	27.8	29.8	1	6	0 15	28.6	7	1	5	1 5	5	7		
39	1	9	26 42	24.8	7	2	8 27 31	25.6	6	2	7	28 21	5	6	2	6	29 10	5	5	2	5	29 59	3	5	2	7.4	0 48	1	4	
40	2	9	26 27	4	5	3	3.8 27 16	3	4	2	7	28 5	2	4	2	6	28 54	1	3	2	6.5	29 43	27.9	2	2	4	0 31	28.8	2	
41	4.3	9	26 12	1	2	5.4	8 27 1	24.9	2	6.3	7	27 49	25.8	1	7.3	5.5	28 38	26.8	0	3	4	29 26	5	0	3	3	0 14	4	0.9	
42	4	8	25 57	23.7	25.9	5	7 26 45	5 26.9	4	6	27 34	4 27.8	4	5	28 22	4 28.8	8.4	4	29 9	1 29.7	9.4	3	29 57	0	7					
43	6	2.8	25 42	3	7	6	7 26 30	2	6	5	4.6 27 17	0	6	5	4	28 5	0	5	5	3	28 52	26.7	5	5	2	29 40	27.6	4		
44	7	8	25 26	0	4	6	7 26 14	23.8	3	6	5	27 1	24.6	3	6	4	27 48	25.6	2	5	3	28 35	3	2	5	7.1	29 22	2	1	
45	4.7	8	25 11	22.6	1	5.7	3.6 25 58	5	1	6.6	5	26 44	3	0	7.7	4	27 31	2 27.9	6	6.2	28 17	25.9	28.9	6	1	29 4	26.8	29.8		
46	8	7	24 55	2 24.8	8	6	25 41	1 25.8	7	5	26 27	23.9	26.7	7	5.3	27 14	24.8	6	8.7	2	28 0	6	6	9.6	0	28 46	3	5		
47	9	7	24 39	21.8	5	9	6 25 25	22.7	4	9	4	26 10	5	4	8	3	26 56	3	3	8	1	27 42	2	3	7	0	28 27	25.9	2	
48	5.0	2.7	24 22	4	2	6.0	5 25 8	3	1	7.0	4.4 25 53	1	1	9	2	26 38	23.9	0	9	1	27 23	24.7	27.9	8	6.9	28 8	5	28.9		
49	2	7	24 5	0 23.9	1	3.5	24 50	21.9	24.8	1	3	25 35	22.7	25.7	8.0	2	26 20	4 26.7	9	0	27 4	3	6	9	8	27 49	1	5		
50	3	6	23 49	20.6	5	2	5 24 33	4	4	2	3	25 17	2	3	1	5.1	26 1	0	3	9.0	5.9	26 45	23.8	2	10.0	8	27 29	24.6	1	
51	4	6	23 31	1	2	3	4 24 15	20.9	1	3	2	24 59	21.7	0	2	1	25 42	22.5	0	1	9	26 26	3 26.9	1	7	27 9	1 27.7			
52	5.5	2.6	23 13	19.6	22.8	6.4	4 23 57	4 23.7	7.4	4.2	24 40	2 24.6	3	0	25 23	0 25.6	2	8	26 6	22.8	5	2	6.6	26 49	23.6	3				
53	7	5	22 55	1	4	6	3.3 23 38	19.9	3	5	2	24 21	20.7	2	8.4	0	25 3	21.5	2	3	8	25 45	3	1	3	6	26 28	1 26.9		
54	8	5	22 37	18.6	21.9	7	3 23 19	4 22.8	6	1	24 1	2 23.8	5	4.9	24 43	0 24.7	9.4	5.7	25 25	21.8	25.6	10.4	5	26 6	22.6	5				
55	6.0	4	22 18	1	4	9	2 23 0	18.9	3	8	0	23 41	19.7	3	7	8	24 22	20.5	2	6	6	25 3	3	1	6	4	25 45	0	0	
56	1	4	21 59	17.6	20.9	7.0	2 22 40	4 21.8	9	0	23 20	1 22.8	8	8	24 1	19.9	23.7	7	6	24 42	20.7	24.6	7	3	25 22	21.4	25.5			

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 8 37 36 } Ω ARC 129° 24'.0 } 7°						H. M. S. 8 41 41 } Ω 8° 130° 25'.2 } 8°						H. M. S. 8 45 44 } Ω 9° 131° 26'.1 } 9°						H. M. S. 8 49 48 } Ω 10° 132° 26'.9 } 10°						H. M. S. 8 53 50 } Ω 11° 133° 27'.5 } 11°						H. M. S. 8 57 52 } Ω 12° 134° 27'.9 } 12°					
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3					
Lat.	☉	♌	♍	♎	♏	☉	♌	♍	♎	♏	☉	♌	♍	♎	♏	☉	♌	♍	♎	♏	☉	♌	♍	♎	♏	☉	♌	♍	♎	♏					
22	9.0	9.2	6 7	5.3	5.6	10.0	10.2	7 2	6.3	6.5	11.1	11.2	7 57	7.2	7.4	12.1	12.2	8 51	8.1	8.4	13.1	13.1	9 46	9.0	9.3	14.1	14.1	10 40	9.9	10.3					
23	1	2	5 52	0	4	1	2	6 47	0	3	1	1	7 41	6.9	3	1	1	8 35	7.8	2	2	1	9 29	8.7	2	2	0	10 23	6	1					
24	1	1	5 37	4.8	2	1	1	6 31	5.7	2	2	1	7 25	6	1	2	0	8 19	5	1	2	0	9 12	4	0	2	0	10 6	3	9.9					
25	2	1	5 21	5	1	2	0	6 15	4	0	2	0	7 9	3	0	2	0	8 3	2	7.9	3	12.9	8 56	1	8.8	3	13.9	9 49	0	8					
26	3	0	5 6	2	4.9	3	0	6 0	1	5.9	3	10.9	6 53	0	6.8	12.3	11.9	7 46	6.9	7	13.3	9	8 39	7.8	7	3	8	9 32	8.7	6					
27	9.3	0	4 51	3.9	7	10.3	9.9	5 44	4.8	7	11.3	9	6 37	5.7	6	3	8	7 30	6	6	4	8	8 22	5	5	14.4	7	9 15	4	4					
28	4	8.9	4 35	6	6	4	9	5 28	5	5	4	8	6 21	4	4	4	8	7 13	3	4	4	7	8 5	2	3	4	7	8 58	1	3					
29	4	9	4 20	3	4	4	8	5 12	2	3	5	8	6 4	1	3	5	7	6 57	0	2	5	6	7 48	6.9	1	5	13.6	8 40	7.8	1					
30	5	8	4 4	0	2	5	8	4 56	3.9	1	5	10.7	5 48	4.8	1	12.5	6	6 40	5.7	0	13.5	12.6	7 31	6	0	5	5	8 23	5	8.9					
31	6	8	3 48	2.7	0	6	9.7	4 40	6	0	6	6	5 31	5	5.9	6	11.6	6 23	4	6.8	6	5	7 14	3	7.8	14.6	4	8 5	2	7					
32	9.6	7	3 32	4	3.8	10.6	6	4 24	3	4.8	11.6	6	5 15	2	7	6	5	6 6	1	6	6	4	6 57	5.9	6	6	3	7 48	6.8	5					
33	7	8.7	3 16	1	6	7	6	4 7	0	6	7	5	4 58	3.9	5	7	4	5 49	4.8	5	7	3	6 39	6	4	7	13.3	7 30	5	3					
34	8	6	3 0	1.8	4	8	5	3 51	2.7	4	8	10.4	4 41	5	3	12.8	4	5 31	4	3	13.7	12.3	6 22	3	2	7	2	7 12	2	1					
35	8	6	2 44	4	2	8	9.5	3 34	3	2	8	4	4 24	2	1	8	3	5 14	1	1	8	2	6 4	4.9	0	14.8	1	6 53	5.8	7.9					
36	9	5	2 27	1	0	9	4	3 17	0	0	9	3	4 7	2.8	4.9	9	11.2	4 56	3.7	5.8	9	1	5 46	6	6.8	8	0	6 35	5	7					
37	10.0	8.4	2 11	0.7	2.8	11.0	3	3 0	1.6	3.8	12.0	2	3 49	5	7	9	1	4 39	4	6	9	0	5 28	2	6	9	12.9	6 16	1	5					
38	1	4	1 54	4	6	0	3	2 43	3	5	0	10.2	3 32	1	5	13.0	1	4 21	0	4	14.0	11.9	5 9	3.8	4	9	8	5 57	4.7	3					
39	1	3	1 37	0	4	1	9.2	2 26	0.9	3	1	1	3 14	1.8	2	1	0	4 2	2.6	2	0	9	4 50	5	1	15.0	7	5 38	3	1					
40	2	3	1 20	29.7	1	2	2	2 8	5	1	2	0	2 56	4	0	1	10.9	3 44	3	4.9	1	8	4 31	1	5.9	1	7	5 19	0	6.8					
41	3	8.2	1 2	3	1.9	3	1	1 50	1	2.8	2	0	2 37	0	3.7	2	8	3 25	1.9	7	2	7	4 12	2.7	6	1	12.6	4 59	3.5	6					
42	10.4	1	0 45	28.9	6	11.4	0	1 32	29.7	5	12.3	9.9	2 19	0.6	5	3	7	3 6	5	4	14.2	11.6	3 53	3	4	2	5	4 39	1	3					
43	5	1	0 27	5	3	4	8.9	1 13	3	3	4	8	2 0	2	2	13.3	7	2 47	0	2	3	5	3 33	1.9	1	15.2	4	4 19	2.7	0					
44	5	0	0 8	1	1	5	9	0 55	28.9	0	4	7	1 41	29.8	2.9	4	10.6	2 27	0.6	3.9	3	4	3 13	4	4.8	3	3	3 59	3	5.8					
45	6	7.9	29 50	27.6	0.8	6	8	0 36	5	1.7	5	6	1 22	3	6	4	5	2 7	2	6	4	3	2 53	0	5	3	12.3	3 38	1.8	5					
46	6	9	29 31	2	5	6	7	0 17	1	4	5	9.6	1 2	28.9	3	5	4	1 47	29.7	3	14.4	11.2	2 32	0.6	2	4	2	3 17	4	2					
47	10.7	8	29 12	26.8	1	11.7	6	29 57	27.7	1	12.6	5	0 42	5	0	5	3	1 27	3	0	5	1	2 11	2	3.9	15.4	1	2 58	0.9	4.8					
48	8	7	28 53	4	29.8	7	8.6	29 37	2	0.8	7	4	0 21	0	1.7	13.6	10.2	1 6	28.9	2.6	5	1	1 50	29.7	5	5	0	2 34	5	5					
49	8	7.7	28 33	0	5	8	5	29 17	26.7	4	8	3	0 1	27.6	3	7	2	0 45	4	3	6	0	1 28	2	1	5	11.9	2 11	0	2					
50	9	6	28 13	25.5	1	9	4	28 56	3	0	8	9.2	29 40	1	0.9	7	1	0 23	27.9	1.9	14.6	10.9	1 6	28.7	2.8	6	7	1 49	2.5	3.8					
51	11.0	5	27 52	0	28.8	12.0	3	28 35	25.8	29.7	9	1	29 18	26.6	5	8	0	0 1	4	6	7	8	0 43	2	4	15.7	6	1 30	0	4					
52	1	4	27 31	24.5	4	1	8.2	28 14	3	3	13.0	1	28 56	1	1	9	9.9	29 38	26.9	2	8	7	0 20	27.7	0	8	5	1 28	4	0					
53	2	7.3	27 10	0	0	2	1	27 52	24.8	28.9	1	0	28 34	25.5	29.7	14.0	8	29 15	3	0.7	9	6	29 57	1	1.6	8	11.4	0 38	2.5	2.6					
54	3	3	26 48	23.4	27.5	3	0	27 29	2	4	2	8.9	28 11	24.9	3	1	7	28 51	25.7	3	15.0	10.5	29 32	26.8	1	9	3	0 13	2	1					
55	5	2	26 25	22.8	26.9	4	0	27 6	23.6	27.9	3	8	27 47	3	28.8	2	6	28 27	1	29.7	1	4	29 5	25.9	0.6	16.4	1	4.5	2.6	1.6					
56	6	1	26 3	2	4	5	7.9	26 43	0	4	4	7	27 23	23.7	3	3	5	28 3	24.5	2	2	2	28 42	2	1	1	0	29 22	0	0					

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } Ω 12° SID. T. 8 57 52 } ARC 134° 27'9					H. M. S. } Ω 13° 9 1 53 } 135° 28'1					H. M. S. } Ω 14° 9 5 53 } 136° 28'2					H. M. S. } Ω 15° 9 9 52 } 137° 28'0					H. M. S. } Ω 16° 9 13 51 } 138° 27'7					H. M. S. } Ω 17° 9 17 49 } 139° 27'2									
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	14.1	14.1	10 40	9.9	10.3	15.1	15.1	11 33	10.8	11.2	16.2	16.0	12 27	11.7	12.1	17.2	17.0	13 20	12.6	13.1	18.2	17.9	14 13	13.5	14.0	19.2	18.9	15 6	14.3	14.9						
23	2	0 10 23	6	1	2	0 11 16	5	0	2	15 9 12 9	4	0	2	16 9 13 3	3	12 9	2	9 13 55	2	13 8	2	8 14 48	0	8												
24	2	0 10 6	3	9 9	2	14 9 10 59	2	10 9	2	9 11 52	1	11 8	2	8 12 45	0	8	3	8 13 37	12 9	7	3	7 14 30	13 7	6												
25	3	13 9 9 49	0	8	3	8 10 42	9 9	7	3	8 11 34	10 8	7	3	8 12 27	11 7	6	3	7 13 19	6	5	3	6 14 11	4	5												
26	3	8 9 32	8 7	6	3	7 10 25	6	6	3	7 11 17	5	5	3	7 12 9	4	4	3	17 6 13 1	3	4	3	5 13 52	1	3												
27	14.4	7 9 15	4	4	15.4	7 10 7	3	4	16.4	15 6 10 59	2	3	17.4	16 6 11 51	1	3	18.4	5 12 42	0	2	19.3	18 4 13 34	12 8	1												
28	4	7 8 58	1	3	4	14 6 9 50	0	2	4	5 10 41	9 9	1	4	5 11 33	10 8	1	4	4 12 24	11 6	0	4	3 13 15	5	13 9												
29	5	13 6 8 40	7 8	1	5	5 9 32	8 7	0	5	4 10 23	6	0	4	4 11 14	4	11 9	4	3 12 5	3	12 8	4	2 12 56	2	8												
30	5	5 8 23	5	8 9	5	4 9 14	4	9 8	5	3 10 5	2	10 8	5	3 10 56	1	7	5	17 2 11 47	0	7	5	1 12 37	11 9	6												
31	14.6	4 8 5	2	7	15.6	3 8 56	0	7	5	15 3 9 47	8 9	6	5	16 2 10 37	9 8	5	5	1 11 28	10 7	5	19.5	0 12 18	6	4												
32	6	3 7 48	6 8	5	6	14 3 8 38	7 7	5	16.6	2 9 28	6	4	17.6	1 10 19	5	3	18.6	0 11 8	3	3	5	17 9 11 58	2	2												
33	7	13 3 7 30	5	3	7	2 8 20	4	3	6	1 9 10	3	2	6	0 10 0	1	1	6	16 9 10 49	0	1	6	8 11 39	10 9	0												
34	7	2 7 12	2	1	7	1 8 1	0	1	7	0 8 51	7 9	0	6	15 9 9 40	8 8	10 9	6	8 10 30	9 7	11 9	6	7 11 19	5	12 8												
35	14.8	1 6 53	5 8	7 9	15.8	0 7 43	6 7	8 9	7	14 9 8 32	5	9 8	7	8 9 21	4	7	7	7 10 10	3	7	19.6	6 10 59	1	6												
36	8	0 6 35	5	7	8	13 9 7 24	3	7	16.8	8 8 13	2	6	7	7 9 1	0	5	7	6 9 50	8 9	5	7	5 10 38	9 8	4												
37	9	12 9 6 16	1	5	9	8 7 5	0	5	8	7 7 53	6 8	4	17.8	6 8 42	7 7	3	18.8	5 9 30	5	2	7	17 3 10 18	4	2												
38	9	8 5 57	4 7	3	9	7 6 46	5 7	2	9	6 7 34	4	2	8	5 8 22	3	1	8	16 4 9 9	1	0	8	2 9 57	0	0												
39	15.0	7 5 38	3	1	16.0	6 6 26	3	0	9	5 7 14	0	8 9	9	15 4 8 1	6 9	9 9	8	2 8 48	7 7	10 8	19.8	1 9 36	8 6	11 7												
40	1	7 5 19	0	6 8	0	5 6 6	4 9	7 8	17.0	14 4 6 53	5 6	7	9	3 7 40	6	6	9	1 8 27	3	5	8	0 9 15	2	5												
41	1	12 6 4 59	3 5	6	1	13 4 5 46	5	5	0	3 6 33	2	4	18.0	1 7 20	2	4	9	0 8 6	6 9	3	9	16 9 8 53	7 8	2												
42	2	5 4 39	1	3	1	3 5 26	1	2	0	2 6 12	4 8	2	0	0 6 59	5 7	1	19.0	15 9 7 45	5	0	9	7 8 31	4	0												
43	15.2	4 4 19	2 7	0	2	2 5 6	3 7	0	1	1 5 51	4	7 9	1	14 9 6 37	3	8 8	0	8 7 23	1	9 8	20.0	6 8 9	6 9	10 7												
44	3	3 3 59	3	5 8	16.2	1 4 45	2	6 7	17.1	0 5 30	3 9	6	1	8 6 16	4 8	5	0	7 7 1	5 6	5	0	5 7 46	5	4												
45	3	12 3 3 38	1 8	5	3	0 4 23	2 8	4	2	13 9 5 9	5	3	1	7 5 54	3	2	1	6 6 38	1	2	0	16 4 7 23	0	1												
46	4	2 3 17	4	2	3	12 9 4 2	3	1	2	8 4 47	0	0	18.2	6 5 31	3 9	7 9	1	15 5 6 15	4 7	8 9	1	3 7 0	5 5	9 8												
47	15.4	1 2 55	0 9	4 8	4	9 3 39	1 8	5 8	3	7 4 24	2 5	6 7	2	5 5 8	4	6	19.2	4 5 52	2	6	1	2 6 36	0	5												
48	5	0 2 34	5	5	16.4	8 3 18	3	4	17.3	6 4 1	1	4	3	14 4 4 45	0	3	2	2 5 28	3 8	2	20.1	0 6 12	4 6	2												
49	5	11 9 2 11	0	2	5	7 2 55	0 8	1	4	5 3 38	1 6	0	3	3 4 21	2 5	6 9	3	1 5 4	3	7 9	2	15 9 5 47	1	8 9												
50	6	7 1 49	29 5	3 8	5	5 2 32	3	4 7	4	13 3 3 14	1	5 6	4	1 3 57	1 9	6	3	14 9 4 39	2 7	5	2	7 5 22	3 5	5												
51	15.7	6 1 26	0	4	6	12 4 2 8	29 8	3	5	2 2 50	0 6	3	18.4	0 3 32	3	2	4	8 4 14	1	1	3	6 4 56	2 9	1												
52	8	5 1 2 28 4	0	16 7	3	1 44	2	7 9	17.5	1 2 25	0	4 9	5	13 9 3 7	0 7	5 8	19.4	7 3 48	1 5	6 7	20.3	5 4 30	3	7 6												
53	8	11 4 0 38	27 8	2 6	7	2 1 19	28 6	5	6	0 2 0 29 4	4	5	8	2 4 1	1	4	5	6 3 22	0 9	3	4	15 4 4 3	1 7	2												
54	9	3 0 13	2	1	8	1 0 54	0	0	7	12 9 1 34	28 8	3 9	6	7 2 15	29 5	4 9	5	14 4 2 55	3	5 8	4	2 3 35	1	6 7												
55	16.0	1 29 48	26 6	1 6	9	11 9 0 28	27 4	2 5	8	7 1 8	1	4	7	5 1 48	28 9	4	6	2 2 27	29 7	3	5	0 3 7	0 4	2												
56	1	0 29 22	0	0	17.0	7 0 2 26 7	0	9	9	6 0 41	27 4	2 9	7	3 1 20	2	3 8	6	0 1 59	0	4 7	5	14 8 2 38	29 7	5 6												

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } Ω 18° SID. T. 9 21 46 } ARC 140° 26'.6 }					H. M. S. } Ω 19° 9 25 43 } 141° 25'.7 }					H. M. S. } Ω 20° 9 29 30 } 142° 24'.7 }					H. M. S. } Ω 21° 9 33 34 } 143° 23'.5 }					H. M. S. } Ω 22° 9 37 29 } 144° 22'.2 }					H. M. S. } Ω 23° 9 41 23 } 145° 20'.0 }						
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3		
	°	′	″	′	″	′	′	″	′	″	′	′	″	′	″	′	′	″	′	″	′	′	″	′	″	′	′	″	′	″	′		
22	20.2	19.8	15.59	15.2	15.9	21.2	20.8	16.51	16.1	16.8	22.2	21.7	17.43	17.0	17.7	23.2	22.7	18.35	17.9	18.7	24.2	23.6	19.27	18.8	19.6	25.2	24.5	20.19	19.6	20.5			
23	2	7	15.40	14.9	7	2	7	16.32	15.8	6	2	6	17.24	16.7	6	2	6	18.16	17.6	5	2	5	19.7	19.2	5	4	2	4	19.59	19.1	19.9		
24	3	6	15.21	14.7	5	2	6	16.13	15.6	5	3	5	17.5	17.0	4	3	4	17.56	17.0	3	2	4	18.45	17.9	2	3	2	3	19.39	18.9	19.3		
25	3	5	15.3	14.8	4	3	5	15.54	15.0	3	3	4	16.46	15.9	2	3	3	17.37	16.8	1	2	2	18.28	17.7	1	2	2	19.18	18.7	19.0			
26	3	4	14.44	13.9	2	3	20.4	15.35	14.9	1	3	21.3	16.26	15.8	1	3	22.2	17.17	16.7	0	3	1	18.7	18.2	5	18.9	3	0	18.58	18.1	18.5		
27	3	19.3	14.25	13.7	0	21.3	2	15.16	14.6	0	22.3	2	16.6	16.1	5	16.9	23.3	1	16.57	16.0	4	17.8	24.3	0	17.47	2	5	25.3	23.9	18.37	17.9	18.3	
28	20.4	2	14.6	14.1	4	14.9	4	14.56	14.0	3	15.47	2	7	3	0	16.37	0	7	3	22.9	17.27	16.9	6	3	5	15.17	14.7	14.5	14.2	14.0			
29	4	1	13.46	12.9	1	4	0	14.37	13.8	6	4	20.9	15.27	14.8	6	4	21.8	16.17	15.7	5	3	5	17.6	17.1	6	4	3	7	17.56	17.1	17.4		
30	4	0	13.27	12.8	5	4	19.9	14.17	13.6	4	4	8	15.7	15.2	4	4	7	15.56	15.0	4	3	3	6	16.46	2	2	3	5	17.35	16.9	17.2		
31	5	18.9	13.7	12.7	4	3	4	8	13.57	13.0	3	4	7	14.46	13.9	2	4	6	15.36	14.8	0	4	5	16.25	15.7	1	3	23.4	17.14	16.8	16.5	16.2	
32	5	8	12.47	11.9	1	21.5	7	13.37	12.8	0	22.4	6	14.26	13.8	0	23.4	5	15.15	14.7	16.9	24.4	22.4	16.4	6	17.9	25.3	3	16.52	16.1	15.8	15.5		
33	20.5	7	12.27	11.7	13.9	5	6	13.17	12.6	14.9	5	5	14.5	14.0	5	15.8	4	21.3	14.54	14.0	3	7	4	2	15.42	2	7	4	1	16.31	15.9	16.2	
34	6	6	12.7	12.2	4	7	5	12.56	12.0	3	7	5	20.4	13.44	12.9	6	5	2	14.33	13.8	0	5	4	1	15.21	14.8	5	4	0	16.9	16.5	16.8	
35	6	5	11.47	10.9	5	6	19.3	12.35	11.9	5	5	2	13.23	12.7	4	5	1	14.11	13.6	3	4	0	14.59	4	3	4	22.5	15.47	15.1	14.8	14.5		
36	6	18.3	11.26	10.6	3	6	2	12.14	11.6	3	5	1	13.2	12.7	4	2	5	20.9	13.50	13.0	2	1	5	21.5	14.37	1	1	4	7	15.25	14.9	15.2	
37	20.7	2	11.5	11.0	3	1	21.6	1	11.53	11.0	1	22.6	0	12.40	11.9	0	23.5	8	13.28	12.8	15.9	24.5	7	14.15	13.7	16.9	25.4	5	15.2	14.8	15.1		
38	7	1	10.44	9.9	12.9	7	0	11.31	10.8	13.8	6	19.9	12.19	11.6	14.8	6	7	13.5	13.0	4	7	5	6	13.52	3	7	4	4	14.39	14.0	14.3		
39	7	0	10.23	9.7	7	7	18.8	11.10	10.6	3	6	6	8	11.56	11.0	2	6	5	12.43	11.9	0	5	5	5	13.29	12.8	4	5	2	14.16	13.7	14.0	
40	8	17.8	10.1	9.6	1	4	7	7	10.48	9.9	4	7	6	11.34	10.8	3	6	20.4	12.20	11.6	2	5	21.3	13.6	4	2	5	1	13.52	13.1	13.4		
41	20.8	7	9.39	8.8	2	8	6	10.25	9.7	1	7	5	11.11	10.6	0	23.6	2	11.57	11.0	1	0	6	2	12.43	0	15.9	5	21.9	13.25	12.8	13.1		
42	9	6	9.17	8.6	21.9	21.8	4	10.2	9.7	0	12.8	22.7	19.4	10.48	9.9	13.8	7	1	11.34	10.8	14.7	24.6	0	12.19	11.5	7	25.5	8	13.4	13.0	13.3		
43	9	5	8.54	8.0	6	8	18.3	9.39	8.8	6	8	2	10.24	9.7	5	7	19.9	11.10	10.6	2	5	6	20.9	11.55	1	4	5	6	12.39	11.9	12.2		
44	9	17.4	8.31	7.8	3	9	2	9.16	8.6	1	3	8	1	10.1	9.6	2	7	8	10.45	9.9	2	6	7	11.30	10.8	1	6	5	12.14	11.7	12.0		
45	21.0	3	8.8	8.3	0	9	1	8.52	8.0	7.6	0	8	18.9	9.36	8.8	12.9	23.8	7	10.21	9.7	13.9	7	5	11.5	11.0	14.8	6	21.4	11.48	11.0	11.3		
46	0	1	7.44	6.9	3	10.7	9	17.9	8.28	1	11.7	22.9	8	9.12	8.6	9	8	6	9.55	9.0	8.8	6	7	4	10.39	9.8	5	6	3	11.22	10.8	11.1	
47	0	0	7.20	6.7	4	22.0	8	8.3	7.8	6.6	4	9	6	8.47	7.9	3	8	19.4	9.30	8.8	2	24.7	2	10.13	1	2	25.6	1	10.56	10.1	10.4		
48	1	16.8	6.55	6.0	3	1	0	6.738	6.2	1	0	9	4	8.21	7.7	0	8	2	9.4	8.9	7.7	12.9	7	0	9.46	8.9	13.9	7	2	10.29	9.8	10.1	
49	21.1	7	6.30	5.8	9.7	1	5	7.12	6.6	10.7	9	3	7.55	7.0	11.7	23.9	1	8.37	7.8	1	6	8	19.8	9.19	0	6	7	7	10.2	9.8	10.1		
50	1	5	6.4	5.9	3	4	1	17.3	6.46	1	4	23.0	1	7.28	6.8	3	9	18.9	8.10	7.6	3	8	7	8.52	8.0	2	7	5	9.13	8.7	9.0		
51	2	4	5.37	4.8	0	1	1	6.19	5.7	4.5	0	0	17.9	7.1	2	10.9	9	7	7.42	6.9	0	11.9	8	6	8.24	7.7	12.5	7	3	9.5	9.1	9.4	
52	2	16.3	5.10	4.6	1	8.6	22.2	0	5.52	5.0	9.6	0	8	6.33	5.8	5	9	6	7.14	6.6	5.4	24.8	4	7.55	2	4	25.8	1	8.3	7.9	8.2		
53	21.3	2	4.43	3.9	1	2	16.9	5.24	4.7	3	1	1	7	6.4	5.9	1	24.0	4	6.45	5.9	4.8	0	9	2	7.25	6.7	11.4	8	1	8.5	8.1	8.4	
54	3	0	4.15	3.6	7.7	2	7	4.55	4.0	8.6	23.1	5	5.35	4.8	9.6	0	2	6.15	5.6	4.5	0	9	0	6.55	6.0	11.4	8	7	7.8	7.4	7.7		
55	4	15.8	3.47	2.9	2	3	5	4.26	3.7	1	1	3	5	5	2.7	1	0	0	5.44	4.9	3.8	0	8	18.8	6.24	2	0	8	5	7	7.4	7.0	7.3
56	5	6	3.17	2.6	6.6	3	3	3.56	3.0	7.6	2	1	4.35	3.8	8.5	1	17.8	5	4.3	3.2	9.4	9	6	5.52	5.0	10.5	8	2	6.30	5.9	6.2		

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 9 41 23 } Ω 23° ARC 145° 20'.6						H. M. S. 9 45 18 } Ω 24° 146° 19'.0						H. M. S. 9 49 8 } Ω 25° 147° 17'.1						H. M. S. 9 53 0 } Ω 26° 148° 15'.1						H. M. S. 9 56 52 } Ω 27° 149° 12'.9						H. M. S. 10 0 42 } Ω 28° 150° 10'.6							
U.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3							
Lat.	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌							
22	25.2	24.5	20	19	19.6	20.5	26.2	25.5	21	11	20.5	21.4	27.2	26.4	22	2	21.4	22.4	28.2	27.3	22	53	22.3	23.3	29.2	28.2	23	44	23.2	24.3	0.2	29.1	24	35	24.0	25.2	
23	2	4	19	59	3	4	2	3	20	50	2	3	2	2	21	41	1	2	2	2	22	32	0	2	2	2	1	23	23	22.9	2	2	0	24	13	23.7	1
24	2	3	19	39	0	2	2	2	20	30	19.9	1	2	1	21	20	20.8	1	2	0	22	11	21.7	0	2	2	27.9	23	2	5	0	2	28.8	23	52	4	24.9
25	2	2	19	18	18.7	0	2	1	20	9	6	0	2	0	21	0	5	21.9	2	26.9	21	50	4	22.8	2	8	22	40	2	23.8	2	7	23	30	1	8	
26	3	0	18	58	4	19.9	2	24.9	19	48	3	20.8	2	25.9	20	38	2	8	2	8	21	29	0	7	2	7	22	19	21.9	7	2	5	23	9	22.8	6	
27	25.3	23.9	18	37	1	7	26.3	8	19	28	0	6	27.2	7	20	17	19.8	6	28.2	6	21	7	20.7	5	29.2	5	21	57	6	5	0.2	4	22	47	4	5	
28	3	8	18	17	17.8	5	3	7	19	7	18.6	5	2	6	19	56	5	4	2	5	20	46	4	4	2	2	27.4	21	35	2	4	2	28.3	22	25	1	3
29	3	7	17	56	4	4	3	5	18	46	3	3	2	4	19	35	2	2	2	26.3	20	24	0	2	2	2	2	21	13	20.9	2	2	1	22	2	21.8	1
30	3	5	17	35	1	2	3	24.4	18	24	0	1	3	25.3	19	13	18.8	1	2	2	20	2	19.7	0	2	1	20	51	5	0	2	0	21	40	4	23.9	
31	3	23.4	17	14	16.8	0	3	3	18	3	17.6	19.9	3	2	18	51	5	20.9	2	1	19	40	3	21.8	2	26.9	20	29	2	22.8	2	27.8	21	17	1	8	
32	25.3	3	16	52	4	18.8	26.3	1	17	41	3	8	27.3	0	18	29	1	7	28.2	25.9	19	18	0	6	29.2	8	20	6	19.8	6	0.2	6	20	54	20.7	6	
33	4	1	16	31	1	6	3	0	17	19	16.9	6	3	24.9	18	7	17.8	5	2	8	18	55	18.6	5	2	6	19	43	5	4	2	5	20	31	3	4	
34	4	0	16	9	15.7	4	3	23.9	16	57	5	4	3	7	17	45	4	3	2	6	18	32	2	3	2	5	19	20	1	2	2	3	20	8	0	2	
35	4	22.8	15	47	3	2	4	7	16	35	1	2	3	6	17	22	0	1	3	4	18	9	17.8	1	2	26.3	18	57	18.7	0	2	2	19	44	19.6	0	
36	4	7	15	25	14.9	0	4	6	16	12	15.7	0	3	4	16	59	16.6	19.9	3	25.3	17	46	4	20.9	2	1	18	33	3	21.8	2	0	19	20	2	22.8	
37	25.4	5	15	2	5	17.8	26.4	4	15	49	3	18.8	27.3	3	16	36	2	7	28.3	1	17	22	0	7	29.2	0	18	9	17.9	6	0.2	26.8	18	56	18.8	6	
38	4	4	14	39	1	6	4	23.2	15	26	14.9	5	3	1	16	12	15.8	5	3	0	16	58	16.6	4	2	25.9	17	45	5	4	2	6	18	31	3	4	
39	5	2	14	16	13.7	4	4	1	15	2	5	3	3	23.9	15	48	4	3	3	24.8	16	34	2	2	2	7	17	20	1	2	2	5	18	6	17.9	1	
40	5	1	13	52	3	1	4	0	14	38	1	1	4	8	15	24	14.9	0	3	6	16	9	15.8	0	2	5	16	55	16.7	0	2	3	17	40	5	21.9	
41	5	21.9	13	28	12.8	16.9	4	22.9	14	14	13.7	17.8	4	6	14	59	5	18.8	3	4	15	44	3	19.7	2	3	16	29	3	20.7	2	1	17	14	0	6	
42	25.5	8	13	4	4	6	26.5	7	13	49	2	6	27.4	4	14	34	0	5	28.3	2	15	19	14.9	5	29.2	2	16	3	15.8	4	0.2	25.9	16	48	16.5	4	
43	5	6	12	39	11.9	3	5	5	13	24	12.7	3	4	23.2	14	8	13.6	2	3	1	14	53	4	2	2	0	15	37	3	1	2	7	16	21	0	1	
44	6	5	12	14	4	0	5	3	12	58	3	0	4	1	13	42	1	17.9	3	23.9	14	26	13.9	18.9	2	24.8	15	10	14.8	19.9	2	6	15	54	15.5	20.8	
45	6	21.4	11	48	10.9	15.7	5	2	12	32	11.8	16.7	4	0	13	16	12.6	6	3	8	14	0	4	6	2	6	14	43	3	6	2	4	15	27	0	6	
46	6	3	11	22	4	4	5	0	12	6	3	4	4	22.8	12	49	1	3	3	6	13	32	12.9	3	2	4	14	15	13.7	3	2	2	14	58	14.5	3	
47	25.6	1	10	56	9.9	1	26.5	21.9	11	39	10.7	1	27.4	6	12	22	11.5	0	28.3	4	13	4	3	0	29.3	2	13	47	1	0	0.2	0	14	30	13.9	0	
48	7	20.9	10	29	3	14.8	6	7	11	12	2	15.8	4	5	11	54	0	16.7	4	2	12	36	11.8	17.7	3	0	13	18	12.5	18.7	2	24.8	14	0	3	19.7	
49	7	7	10	2	8.8	5	6	5	10	44	9.6	5	5	3	11	25	10.4	4	4	0	12	7	2	4	3	23.8	12	49	0	4	2	6	13	30	12.8	4	
50	7	5	9	33	2	2	6	3	10	15	0	1	5	1	10	56	9.8	1	4	22.8	11	38	10.6	0	3	6	12	19	11.4	0	2	4	13	0	2	0	
51	7	3	9	5	7.6	13.8	6	1	9	46	8.4	14.7	5	21.9	10	27	2	15.7	4	6	11	7	0	16.6	3	4	11	48	10.8	17.6	2	2	12	28	11.5	18.6	
52	25.8	1	8	35	0	4	26.6	20.9	9	16	7.7	3	27.5	7	9	56	8.5	3	28.4	4	10	36	9.3	2	29.3	2	11	16	1	2	0.2	0	11	56	10.8	2	
53	8	19.9	8	5	6.3	12.9	7	7	8	45	1	13.9	5	5	9	25	7.8	14.8	4	2	10	5	8.6	15.8	3	0	10	44	9.4	16.8	2	23.8	11	23	1	17.7	
54	8	7	7	34	5.6	4	7	5	8	13	6.4	4	5	3	8	53	1	3	4	0	9	32	7.9	3	3	22.8	10	11	8.7	3	2	5	10	50	9.4	2	
55	8	5	7	2	4.9	11.9	7	3	7	41	5.7	12.9	6	0	8	20	6.4	13.8	4	21.7	8	59	2	14.8	3	5	9	37	7.9	15.8	2	2	10	15	8.7	16.7	
56	9	2	6	30	2	3	7	1	7	8	0	3	6	20.8	7	46	5.6	2	4	5	8	24	6.4	2	3	3	9	2	1	2	2	0	9	40	7.9	1	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 10 4 33 } Ω ARC 151° 8'.1 } 29°					H. M. S. 10 8 22 } π 0° 152° 5'.5 }					H. M. S. 10 12 11 } π 1° 153° 2'.8 }					H. M. S. 10 16 0 } π 2° 153° 59'.9 }					H. M. S. 10 19 47 } π 3° 154° 56'.8 }					H. M. S. 10 23 35 } π 4° 155° 53'.7 }				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
	°	′	″	′	″	′	″	′	″	′	″	′	″	′	″	′	″	′	″	′	″	′	″	′	″	′	″	′	″	′	″
22	1.1	0.0	25.25	24.9	26.2	2.1	1.0	26.16	25.8	27.1	3.1	1.9	27.6	26.6	28.1	4.1	2.8	27.56	27.5	29.0	5.1	3.7	28.46	28.4	29.9	6.0	4.6	29.36	29.2	0.9	
23		1	29.9	25.4	6.0	1	0.8	25.54	5.0	0	1	7	26.44	3	27.9	1	6	27.34	2	28.8	1	5	28.24	1	8.0	4	29.14	28.9	7		
24	2	7	24.42	3	25.9	1	6	25.32	1	26.8	1	5	26.22	0	8.1	1	5	27.12	26.9	7	0	3	28.1	27.7	6.0	0	2	28.51	6	6	
25	1	6	24.20	0	7.1	1	5	25.10	24.8	7.1	1	4	26.0	25.7	6.1	1	3	26.49	5	5.0	0	2	27.38	4	5.0	0	1	28.28	3	4	
26	1	4	23.58	23.6	6.1	1	3	24.48	5	5.3.1	2	25.37	3	4.4.0	1	2	26.26	2	3.5.0	0	2	27.15	1	29.3	0	3.9	28.4	27.9	3		
27	1.1	29.3	23.36	3	4.2.1	2	24.25	2	4.1	1	1	25.15	0	27.3	9	1.9	26.4	25.9	2	0	2.8	26.52	26.8	1	0	7	27.41	6	1		
28	1	1	23.14	0	2.1	0	24.3	23.8	2	0	0.9	24.52	24.7	1	0	8	25.40	5	0	0	6	26.29	4	0	5.9	5	27.17	3	29.9		
29	1	0	22.51	22.6	1	1	29.9	23.40	5	0	0	7	24.29	3	0	0	6	25.17	2	27.9	0	5	26.5	1	28.8	9	3	26.53	26.9	8	
30	1	28.8	22.28	3	24.9	1	7	23.17	1	25.8	3.0	6	24.5	0	26.8	4.0	4	24.53	24.8	7	4.9	3	25.41	25.7	6	9	2	26.29	6	6	
31	1	7	22.5	21.9	7.1	1	5	22.54	22.8	7.0	0	4	23.42	23.6	6.0	0	3	24.29	5	5.9	1	25.17	3	5.9	9	0	26.5	2	4		
32	1.1	5	21.42	6	5.2.1	4	22.30	4	5.0	2	23.18	3	4.0	1	24.5	1	3.9	1.9	24.53	0	3.9	2.8	25.40	25.8	2						
33	1	4	21.19	2	3.0	2	22.6	0	3.0	0	1	22.54	22.9	2.3.9	0.9	23.41	23.8	1.9	8	24.28	24.6	1.5.8	6	25.15	5	0					
34	1	2	20.55	20.8	1.0	0	21.42	21.7	1.3.0	29.9	22.29	5	0.9	7	23.16	4	26.9	9	6	24.3	2	27.9	8	4	24.50	1	28.9				
35	1	0	20.31	4	23.9	0	28.9	21.18	3	24.9	0	7	22.5	1	25.8	9	5	22.51	0	7.4.9	4	23.38	23.8	7.8	8	2	24.24	24.7	7		
36	1	27.8	20.6	0	7.0	7	20.53	20.9	7.0	5	21.40	21.7	6.9	3	22.26	22.6	5.8	2	23.12	4	5.8	0	23.58	3	5						
37	1.1	7	19.42	19.6	5.2.0	6	20.28	5	5.0	4	21.14	3	4.9	1	22.0	2	3.8	0	22.46	0	3.8	1.8	23.32	23.9	3						
38	1	5	19.17	2	3.0	4	20.3	0	3.2.9	2	20.48	20.9	2.3.9	0	21.34	21.7	1.8	0.8	22.20	22.6	1.5.7	6	23.5	4	1						
39	1	3	18.51	18.7	1.0	2	19.37	19.6	0.9	0	20.22	4	0.9	29.8	21.8	3	25.9	8	6	21.53	1	26.9	7	4	22.38	22.9	27.9				
40	1	1	18.26	3	22.9	0	0	19.11	1	23.8	9	28.8	19.56	0	24.8	8	6	20.41	20.8	7.4.8	4	21.26	21.6	7.7	7	2	22.11	5	6		
41	1	26.9	17.59	17.8	6.0	27.8	18.44	18.7	6.9	6	19.29	19.6	5.8	4	20.13	3	5.7	2	20.58	2	4.7	0	21.42	0	4						
42	1.1	8	17.33	3	3.2.0	6	18.17	2	3.9	4	19.1	1	3.8	2	19.46	19.8	2.7	0	20.30	20.7	2.6.0	8	21.14	21.5	2						
43	1	6	17.5	16.8	1.0	4	17.50	17.7	0.2.9	2	18.34	18.6	0.3.8	0	19.17	3	0.7	29.8	20.1	2	25.9	5.6	6	20.45	0	26.9					
44	1	4	16.38	3	21.8	0	2	17.22	1	22.7	9	0	18.5	1	23.7	8	28.8	18.48	18.8	24.7	7.6	6	19.32	19.6	7.6	4	20.15	20.5	6		
45	1	2	16.10	15.8	5.0	0	16.53	16.6	5.9	27.8	17.36	17.5	5.8	6	18.19	3	5.4.7	4	19.2	1	4.6	2	19.45	19.9	3						
46	1	0	15.41	3	2.0	26.8	16.24	1	2.9	6	17.7	0	2.8	4	17.49	17.7	2.6	2	18.32	18.5	1.5	29.9	19.14	3	1						
47	1.1	25.7	15.12	14.7	20.9	2.0	6	15.54	15.5	21.9	8	3	16.37	16.4	22.9	7	2	17.19	1	23.9	6	0	18.1	0	24.8	5	7	18.43	18.8	25.8	
48	1	5	14.42	1	6.0	4	15.23	14.9	6.2.8	1	16.6	15.8	6.3.7	0	16.48	16.6	6.6	6	28.7	17.29	17.4	5.5.5	4	18.11	2	5					
49	1	3	14.12	13.6	3.0	0	2	14.52	4	2.8	26.8	15.34	2	3.7	27.7	16.16	0	3.4.6	5	16.57	16.8	2.5	1	17.38	17.6	1					
50	1	1	13.41	0	19.9	0	25.9	14.21	13.8	20.9	8	6	15.2	14.6	21.9	7	4	15.43	15.4	22.9	6	2	16.24	2	23.8	5	28.9	17.4	0	24.8	
51	0	24.9	13.9	12.3	5.1.9	7	13.49	2	5.8	4	14.29	13.9	5.7	2	15.10	14.7	5.5	5	27.9	15.50	15.5	4.4	6	16.30	16.3	4					
52	1.0	7	12.36	11.6	1.9	5	13.16	12.5	1.2.8	2	13.56	2	1.3.6	0	14.35	0	1.5	7	15.15	14.8	0.5.4	4	15.55	15.6	0						
53	0	4	12.3	10.9	18.7	9	3	12.42	11.8	19.7	8	0	13.21	12.5	20.7	6	26.7	14	0	13.3	21.7	4.5	4	14.40	1	22.6	4	1	15.19	14.9	23.6
54	0	2	11.28	2	2.9	0	12.8	0	2.8	25.7	12.46	11.8	2.6	4	13.25	12.5	2.5	1	14.3	13.3	1.3	27.8	14.42	1	1						
55	0	23.9	10.54	9.5	17.7	9	24.7	11.32	10.2	18.7	8	4	12.10	0	19.7	6	1	12.48	11.7	20.7	5	26.8	13.26	12.5	21.6	3	5	14.4	13.3	22.6	
56	0	6	10.18	8.7	1.8	4	10.55	9.4	1.7	1	11.33	10.2	1.5	25.8	12.10	10.9	1.4	5	12.47	11.6	0.3	2	13.25	12.5	0						

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 10 23 35 } $\pi$ ARC 155° 53'.7 } 4°					H. M. S. 10 27 22 } $\pi$ 5° 156° 50'.4 }					H. M. S. 10 31 8 } $\pi$ 6° 157° 47'.0 }					H. M. S. 10 34 54 } $\pi$ 7° 158° 43'.4 }					H. M. S. 10 38 39 } $\pi$ 8° 159° 39'.8 }					H. M. S. 10 42 24 } $\pi$ 9° 160° 36'.0 }							
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3		
Lat.	$\sphericalangle$	$\mu$	$\mu$	$f$	$\sphericalangle$	$\sphericalangle$	$\mu$	$f$	$\nu$	$\sphericalangle$	$\sphericalangle$	$\mu$	$f$	$\nu$	$\sphericalangle$	$\sphericalangle$	$\mu$	$f$	$\nu$	$\sphericalangle$	$\sphericalangle$	$\mu$	$f$	$\nu$	$\sphericalangle$	$\sphericalangle$	$\mu$	$f$	$\nu$	$\sphericalangle$	$\sphericalangle$	
22	6.0	4.6	29 36	29.2	0.9	7.0	5.5	0 26	0.1	1.8	8.0	6.3	1 15	1.0	2.7	9.0	7.2	2 5	1.8	3.7	9.9	8.1	2 55	2.7	4.6	10.9	9.0	3 44	3.6	5.6		
23	0	4 29	14	28.9	7	0	3 0 3	29.8	$f$	7	0	2 0 52	0.6	6	8.9	1 1 42	5	5	9	7.9	2 31	4	5	9	8.8	3 20	2	4				
24	0	2 28	51	6	6	0	1 29	40	$\mu$	5	5	7.9	0 0 29	3	5	9	6.9	1 18	2	4	9	7 2 7	1	3	8	6 2 56	2.9	3				
25	0	1 28	28	3	4	6.9	4.9	29 17	1	4	9	5.8	0 6	0	3	9	7 0 54	0.9	2	8	5 1 43	1.7	2	8	4 2 32	6	2					
26	0	3.9	28 4	27.9	3	9	7 28	53	28.8	2	9	6 29	42	29.7	2	9	5 0 30	5	1	8	3 1 19	4	0	8	2 2 8	3	0					
27	0	7 27	41	6	1	9	6 28	29	5	0	9	4 29	18	3	0	8	3 0 6	2	2.9	9.8	2 0 55	1	3.9	10.7	0 1 43	1.9	4.9					
28	5.9	5 27	17	3	29.9	9	4 28	6	1	0.9	9	3 28	54	0	1.8	8.8	1 29	42	29.9	8	8	0 0 30	0.7	7	7 7.8	1 18	6	7				
29	9	3 26	53	26.9	8	9	2 27	41	27.8	7	7.8	1 28	29	28.6	7	8	5.9	29 17	5	6	7	6.8	0 5	4	6	7 6 0 53	2	5				
30	9	2 26	29	6	6	6.8	0 27	17	4	6	8	4.9	28 5	3	5	7	7 28	52	1	5	7	6 29	40	0	4	6 4 0 28	0.9	4				
31	9	0 26	5	2	4	8	3.8	26 52	1	4	8	7 27	40	27.9	3	7	5 28	27	28.8	3	7	4 29	15	29.6	3	6	2 0 2	5	2			
32	9	2.8	25 40	25.8	2	8	6 26	28	26.7	2	8	5 27	15	6	2	7	3 28	2	4	1	9.6	2 28	49	3	1	10.6	0 29	36	1	0		
33	5.8	6 25	15	5	0	8	4 26	2	3	0	7	3 26	49	2	0	8.7	1 27	36	0	1.9	6	0 28	23	28.9	2.9	5	6.8	29 10	29.8	3.9		
34	8	4 24	50	1	28.9	8	3 25	37	25.9	29.8	7.7	1 26	23	26.8	0.8	6	4.9	27 10	27.6	8	6	5.8	27 56	5	7	5 6 28	43	4	7			
35	8	2 24	24	24.7	7	6.7	1 25	11	5	6	7	3.9	25 57	4	6	6	7 26	43	2	6	5	6 27	30	1	5	5 4 28	16	0	5			
36	8	0 23	58	3	5	7	2.9	24 44	1	4	7	7 25	30	0	4	6	5 26	17	26.8	4	5	4 27	2 27.6	3	4	2 27	48	28.5	3			
37	8	1.8	23 32	23.9	3	7	7 24	18	24.7	2	6	5 25	3 25.6	2	5	4 25	49	4	2	9.5	2 26	35	2	1	10.4	0 27	20	1	1			
38	5.7	6 23	5	4	1	7	4 23	51	3	0	6	3 24	36	1	0	8.5	2 25	22	25.9	0	4	0 26	7 26.8	1.9	3	5.8	26 52	27.6	2.9			
39	7	4 22	38	22.9	27.9	6	2 23	23	23.8	28.8	7.6	1 24	8 24.6	29.8	5	0 24	53	5	0.8	4	4.8	25 38	3	7	3 6 26	23	2	7				
40	7	2 22	11	5	6	6.6	0 22	55	3	6	5	2.9	23 40	2	6	4	3.7	24 25	0	5	4	5 25	9 25.8	5	3	3 25	54	26.7	5			
41	7	0 21	42	0	4	6	1.8	22 27	22.9	4	5	7 23	11	23.7	4	4	5 23	55	24.5	3	3	3 24	40	4	3	2 1 25	24	2	3			
42	6	0.8	21 14	21.5	2	6	6 21	58	4	1	5	5 22	42	2	1	8.4	2 23	26	0	1	9.3	0 24	10 24.9	1	10.2	4.8	24 53	25.7	0			
43	5.6	6 20	45	0	26.9	5	3 21	28	21.9	27.9	4	2 22	12	22.6	28.9	3	0 22	56	23.5	29.8	3	3.8	23 39	3	0.8	1 6 24	22	1	1.8			
44	6	4 20	15	20.5	6	6.5	1 20	58	3	6	7.4	0 21	42	1	6	3	2.7	22 25	0	6	2	5 23	8 23.8	6	1	3 23	51	24.6	5			
45	6	2 19	45	19.9	3	5	0.9	20 28	20.8	3	4	1.7	21 11	21.5	4	3	5 21	54	22.4	4	2	3 22	36	2	4	0 1 23	19	0	3			
46	5	29.9	19 14	3	1	5	7 19	57	2	1	3	5 20	39	0	1	8.2	3 21	22	21.9	1	2	0 22	4 22.7	1	0	3.8	22 46	23.5	1			
47	5	7 18	43	18.8	25.8	4	5 19	25	19.6	26.8	3	3 20	7 20.4	27.8	2	1 20	49	3	28.8	9.1	2.7	21 31	1	29.8	9.9	6 22	12	22.9	0.8			
48	5.5	4 18	11	2	5	6.4	3 18	52	0	5	7.3	0 19	34	19.8	5	2	1.8	20 15	20.7	5	1	5 20	57	21.5	5	9	3 21	38	3	5		
49	5	1 17	38	17.6	1	4	0 18	19	18.4	1	2	0.7	19 0	2	2	1	5 19	41	0	2	0	2 20	22 20.8	2	9	0 21	3 21.7	2				
50	5	28.9	17 4	0	24.8	4	29.7	17 45	17.8	25.8	2	4 18	25	18.6	26.8	8.1	2 19	6 19.4	27.8	0	1.9	19 46	2	28.8	8	2.7	20 27	0	29.8			
51	4	6 16	30	16.3	4	3	4 17	10	1	4	2	1 17	50	17.9	4	1	0.9	18 30	18.7	4	8.9	6 19	10 19.5	4	8	4 19	50	20.3	4			
52	5.4	4 15	55	15.6	0	6.3	1 16	34	16.4	0	7.1	29.8	17 14	2	0	0	6 17	53	0	0	9	3 18	33	18.8	0	9.7	1 19	12	19.6	0		
53	4	1 15	19	14.9	23.6	3	28.8	15 58	15.6	24.6	1	5 16	37	16.4	25.6	0	3 17	16	17.2	26.6	8	0 17	54	0	27.6	7 1.8	18 33	18.8	28.6			
54	3	27.8	14 42	1	1	2	5 15	20	14.8	1	0	2 15	59	15.6	1	7.9	0 16	37	16.4	1	7	0.7	17 15	17.2	1	6	5 17	54	0	2		
55	3	5 14	4	13.3	22.6	2	2 14	43	0	23.6	0	28.9	15 20	14.8	24.6	9	29.7	15 57	15.5	25.6	7	4 16	35	16.3	26.6	6	1 17	13	17.1	27.7		
56	3	2 13	25	12.5	0	1	27.9	14 2	13.1	1	6.9	6 14	39	13.9	1	8	3 15	17	14.6	1	6	0 15	54	15.4	1	5	0.7	16 31	16.2	2		

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. Lat.	H. M. S. } 10° SID. T. 10 46 9 } ARC 161° 32'.2 }					H. M. S. } 11° 10 49 53 } 162° 28'.2 }					H. M. S. } 12° 10 53 37 } 163° 24'.1 }					H. M. S. } 13° 10 57 20 } 164° 20'.0 }					H. M. S. } 14° 11 1 3 } 165° 15'.7 }					H. M. S. } 15° 11 4 46 } 166° 11'.4 }				
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	11.9	9.9	4 33	4.4	6.5	12.8	10.7	5 22	5.3	7.5	13.8	11.6	6 11	6.2	8.4	14.7	12.5	7 1	7.0	9.4	15.7	13.3	7 50	7.9	10.3	16.6	14.2	8 35	8.8	11.3
23	8	7 4 9	1	4	8	5 4 58	0	3	7	4 5 47	5.8	3	7	3 6 36	6.7	3	6	1 7 25	6	2	6	0 8 13	4	2						
24	8	5 3 45	3.8	3	7	3 4 34	4.6	2	7	2 5 22	5	2	6	1 6 11	4	1	6	12.9	7	0	2	1	5	13.8	7 48	1	0			
25	8	3 3 21	5	1	7	1 4 9	3	1	7	0 4 58	2	0	6	11.9	5 46	0	0	5	7 6 35	6.9	0	5	6 7 23	7.8	10.9					
26	7	1 2 56	1	0	7	9.9	3 44	0	6.9	6 10.8	4 33	4.8	7.9	6	7 5 21	5.7	8.9	15.5	5 6 9	6	9.8	4	4 6 57	4	8					
27	11.7	8.9	2 31	2.8	5.8	12.6	7 3 19	3.6	8	13.6	6 4 7	5	8	14.5	4 4 55	4	7	4	3 5 43	2	7	16.4	1 6 31	1	6					
28	7	7 2 6	4	7	6	5 2 54	3	6	5	4 3 42	2	6	5	2 7 30	0	6	4	1 5 17	5.9	5	3	12.9	6 5 6.7	5						
29	6	5 1 41	1	5	6	3 2 28	2.9	5	5	2 3 16	3.8	5	4	0 4 4	4.7	4	4	11.9	4 5 1	5	4	3	7 5 39	4	10.4					
30	6	3 1 15	1.7	4	5	1 2 3	6	6.3	4	9.9	2 50	4	7.3	4	10.8	3 37	3	3	15.3	6 4 25	2	2	2	5 5 12	0	2				
31	6	1 0 49	4	2	12.5	8.9	1 36	2	2	4	7 2 24	1	1	14.3	6 3 11	3.9	1	3	4 3 58	4.8	1	2	2 4 45	5.7	0					
32	11.5	7.9	0 23	0	4	7 1 10	1.9	0	13.4	5 1 57	2.7	0	3	4 2 44	6	7.9	2	2 3 30	4	8.9	16.1	0 4 17	3	9.9						
33	5	6 29 56	0.6	4.8	4	5 0 43	5	5.8	3	3 1 30	3	6.8	2	1 2 16	2	8	2	0 3 3	0	7	1	11.8	3 49	4.9	7					
34	4	4 29 29	2	6	3	2 0 16	1	7	3	1 1 2	1.9	6	2	9.9	1 48	2.8	6	15.1	10.7	2 35	3.6	6	0 5 3 21	5	5					
35	4	2 29 29	2	5	12.3	0 29 48	0.7	5	2	8.8	0 34	5	4	14.1	6 1 20	4	4	1	5 2 6	2	4	0	3 2 52	1	4					
36	4	0 28 34	4	3	3	7.8	29 20	3	3	2	6 0 6	1	2	1	4 0 51	0	2	0	2 1 37	2.8	2	15.9	0 2 23	3.7	2					
37	11.3	6.8	28 6	0	1	2 6 28	5 1 29.8	1	13.1	4 29 37	0.7	0	0	2 0 22	1.5	0	0	0 1 7	4	0	9	10.8	1 53	2	0					
38	3	6 27 37	28.5	3.9	2	4 28 22	4	4.9	1	2 29 7	2	5.8	0	0 29 53	1	6.8	14.9	9.8	0 37	1.9	7.8	8	5 1 23	2.8	8.8					
39	2	4 27 8	0	7	12.1	2 27 53	28.9	7	0	0 28 38	29.7	6	13.9	8.8	29 22	0.6	6	8	6 0 7	4	6	7	3 0 52	3	6					
40	2	1 26 38	27.5	5	1	6.9	27 23	4	4	0	7.7	28 7	2	4	9	5 28 52	1	4	8	3 29 36	0.9	4	7	0 0 21	1.8	4				
41	11.1	5.9	26 8	0	2	0 7 26	52 27.9	2	12.9	5 27 36	28.7	2	8	3 28 20	29.6	2	7	0 29 5	4	2	15.6	9.7	29 49	3	2					
42	1	6 25 38	26.5	0	0	4 26 21	4	0	9	2 27 5	2	0	8	0 27 49	1	0	7	8.8	28 32	29.9	0	6	5 29 16	0.8	7.9					
43	0	4 25 6	0	2.8	11.9	1 25 49	26.8	3.8	8	6.9	26 33	27.7	4.7	13.7	7.7	27 16	28.5	5.7	14.6	5 27 59	4	6.7	5	2 28 43	2	7				
44	0	1 24 34	25.4	5	9	5.9	25 17	3	5	8	7 26 0	1	5	6	4 26 43	0	5	5	2 27 26	28.8	5	4	8.9	28 9 29.7	4					
45	10.9	4.8	24 2 24.9	3	8	6 24 44	25.7	3	7	4 25 27	26.5	3	6	1 26 9	27.4	3	5	7.9	26 52	2	2	3	6 27 34	1	2					
46	9	5 23 28	3	1	8	3 24 10	1	0	12.6	1 24 52	25.9	0	5	6.8	25 34	26.8	0	4	6 26 16	27.6	0	15.3	3 26 59	28.5	0					
47	8	3 22 54	23.7	1.8	7	1 23 36	24.5	2.7	6	5.8	24 17	3	3.7	13.4	5 24 59	2	4.7	3	3 25 41	0	5.7	2	0 26 22	27.9	6.7					
48	8	0 22 19	1	5	11.7	4.8	23 0 23.9	4	5	5 23 42	24.7	4	4	2 24 23	25.6	4	14.2	0 25 4	4 26.4	4	1	7.7	25 45	2	4					
49	10.7	3.7	21 44	22.4	2	6 5 22	24	3	1	5	2 23 5	1	1	3	5.9	23 46	24.9	1	2	6.7	24 27	25.7	1	1	4 25 7 26.5	4				
50	7	4 21 7 21.8	0.8	6	2 21 47	22.6	1.8	4	4.9	22 28	23.4	2.8	3	6 23 8	2	3.8	1	4 23 48	0	4.8	0	1 24 28	25.9	5.8						
51	6	1 20 30	1	4	5	3.9	21 9 21.9	4	12.3	6 21 49	22.7	4	13.2	3 22 29	23.5	4	1	1 23 9	24.3	4	14.9	6 8 23 49	2	4						
52	6	2.8	19 52	20.4	0	6 20 31	1	0	3	3 21 10	21.9	0	2	0 21 49	22.7	0	0	5.7	22 28	23.5	0	9	4 23 8 24.4	1						
53	10.5	5 19 12	19.6	29.6	4	2 19 51	20.3	0.6	2	3.9	20 29	1	1.6	1	4.7	21 8 21.9	2.6	13.9	4 21 47	22.7	3.6	8	1 22 26 23.6	4.7						
54	5	2 18 32	18.8	2	3	2.9	19 10 19.5	2	2	6 19 48	20.3	2	0	3 20 26	1	2	8	0 21 4	21.9	2	7	5.7	21 42 22.7	3						
55	4	1.8	17 50	17.9	28.7	2	5 18 28	18.6	29.7	1	2 19 5	19.4	0.7	12.9	3.9	19 43	20.2	1.8	8	4 6 20	20	0	2.8	6 3 20 58 21.8	3.9					
56	3	4 17 7	0	2	1	1 17 45	17.7	2	1	2 8 18	21	18.5	2	9	5 18 58	19.3	3	7	2 19 35	20.0	3	5	4 9 20 12 20.8	4						

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. } SID. T. 11 4 46 } ARC 166° 11'.4 } 15°					H. M. S. } 11 8 28 } 167° 7'.0 } 16°					H. M. S. } 11 12 10 } 168° 2'.5 } 17°					H. M. S. } 11 15 52 } 168° 58'.0 } 18°					H. M. S. } 11 19 33 } 169° 53'.4 } 19°					H. M. S. } 11 23 15 } 170° 48'.7 } 20°											
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3						
Lat.	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌						
22	16.6	14.2	8.38	8.8	11.3	17.6	15.0	9.27	9.6	12.3	18.5	15.9	10.16	10.5	13.2	19.4	16.7	11.5	11.4	14.2	20.4	17.6	11.53	12.3	15.2	21.3	18.4	12.42	13.1	16.1						
23	6	0	8.13	4	2	5.14	8	9	2	3	1	4	7	9.51	2	1	4	5	10.39	1	1	3	4	11.28	11.9	0	2	2	12.16	12.8	0					
24	5	13.8	7.48	1	0	5	6	8.37	0	0	4	5	9.25	9.8	0	3	3	10.14	10.7	13.9	2	2	11	2	6	14.9	2	0	11.50	5	15.9					
25	5	6	7.23	7.8	10.9	4	4	8.11	8.6	11.9	3	2	8.59	5	12.8	3	1	9.48	4	8	2	16.9	10.36	3	8	1	17.8	11.24	2	8						
26	4	4	6.57	4	8	17.4	2	7.45	3	8	3	0	8.33	2	7	2	15.8	9.22	1	7	20.1	7	10	10	10.9	7	1	6	10.58	11.8	7					
27	16.4	1	6.31	1	6	3	0	7.19	0	6	18.2	14.8	8	7	8.8	6	19.2	6	8.55	9.7	6	1	5	9.43	6	5	0	3	10.31	5	5					
28	3	12.9	6	5	6.7	5	3	13.7	6.53	7.6	5	2	6	7.40	5	4	1	4	8.28	4	13.4	0	2	9.16	2	14.4	20.9	1	10	3	1	15.4				
29	3	7	5.39	4	10.4	2	5	6.26	3	11.3	1	3	7.14	1	12.3	0	2	8	1	0	3	19.9	0	8.48	9.9	3	9	16.8	9.36	10.8	3					
30	2	5	5.12	0	2	17.1	3	5.59	6.9	2	1	1	6.46	7.8	2	0	14.9	7.34	8.6	1	9	15.8	8.21	5	1	8	6	9	8	4	1					
31	2	2	4.45	5.7	0	1	1	5.32	5	0	0	13.9	6.19	4	0	18.9	7	7	6	3	0	8	5	7.53	2	0	7	3	8.40	1	0					
32	16.1	0	4.17	3	9.9	0	12.8	5	4	2	10.9	17.9	6	5.51	0	11.9	9	5	6.37	7.9	12.8	8	3	7.24	8.8	13.8	7	1	8.11	9.7	14.8					
33	1	11.8	3.49	4.9	7	0	6	4.36	5.8	7	9	4	5.22	6.7	7	8	2	6	9	5	7	7	0	6.55	4	7	20.6	15.8	7.42	3	7					
34	0	5	3.21	5	5	16.9	3	4	7	4	5	8	1	4.53	3	5	7	0	5.39	1	5	19.6	14.8	6.26	0	5	5	6	7.12	8.9	5					
35	0	3	2.52	1	4	9	1	3.38	0	4	8	12.9	4.24	5.8	4	7	13.7	5.10	6.7	4	6	5	5.56	7.6	3	5	3	6.42	5	3						
36	15.9	0	2.23	3.7	2	8	11.8	3	8	4.5	2	17.7	6	3.54	4	2	18.6	4	4.40	3	2	5	2	5.25	2	2	4	0	6.11	0	2					
37	9	10.8	1.53	2	0	7	6	2.38	1	0	6	4	3.24	0	0	5	2	4	9	5.8	0	4	0	4.55	6.7	0	3	14.8	5.40	7.6	0					
38	8	5	1.23	2.8	8.8	7	3	2	8	3.6	9.8	6	1	2.53	4.5	10.8	5	12.9	3.38	4	11.8	4	13.8	4.23	3	12.8	20.2	5	5	8	1	13.8				
39	7	3	0.52	3	6	16.6	1	1.37	1	6	5	11.8	2.21	0	6	4	6	3	6	4.9	6	19.3	5	3.51	5.8	6	2	3	4.36	6.6	6					
40	7	0	0.21	1.8	4	6	10.8	1	5	2.6	4	17.4	6	1.49	3.5	4	3	4	2.34	4	4	2	2	3.18	2	4	1	0	4	3	1	4				
41	15.6	9.7	29.49	3	2	5	5	0.33	1	2	4	3	1.17	0	2	18.3	1	2	1	3.9	2	1	12.9	2.45	4.7	2	0	13.7	3.29	5.6	2					
42	6	5	29.16	0.8	7.9	4	2	0	0	1.6	8.9	3	0	0.43	2.5	9.9	2	11.8	1.27	3	0	1	6	2.11	2	0	19.9	4	2.55	1	0					
43	5	2	28.43	2	7	4	0	29.26	1	7	2	10.7	0	9	1.9	7	1	5	0.53	2.8	10.7	0	3	1.36	3.6	11.7	9	1	2.20	4.5	12.8					
44	4	8.9	28	9	29.7	4	16.3	9.7	28.52	0.5	5	17.2	4	29.35	3	5	0	2	0.18	2	5	18.9	0	1	1	1	5	8	12.8	1.44	3.9	5				
45	3	6	27.34	1	2	2	4	28.17	29.9	3	1	2	28.59	0.7	3	17.9	10.9	29.42	1.6	3	8	11.7	0.24	2.5	3	7	5	1	7	3	3					
46	15.3	3	26.59	28.5	0	1	1	27.41	3	1	0	9.9	28.23	1	1	8	6	29	5	0	1	7	4	29.47	1.9	1	19.6	2	0.30	2.7	1					
47	2	0	26.22	27.9	6.7	0	8.8	27	4	28.7	7.8	0	6	27.46	29.5	8.8	8	3	28.28	0.4	9.8	7	0	29	9	2	10.9	5	11.9	29.51	1	11.8				
48	1	7.7	25.45	2	4	0	5	26.26	0	5	16.9	3	27	8	28.9	5	7	0	27.49	29.7	5	18.6	10.7	28.30	0.6	6	4	5	29.12	1.4	5					
49	1	4	25	7	26.5	1	15.9	2	25	48	27.4	2	8	0	26.29	2	2	17.6	9.7	27	10	1	2	5	3	27.51	29.9	3	3	2	28.31	0.8	3			
50	0	1	24	28	25.9	5.8	8	7.8	25	9	26.7	6.9	7	8.6	25	49	27.5	7.9	5	3	26	29	28.4	8.9	4	0	27	10	2	0	19.2	10.8	27	50	1	0
51	14.9	6.8	23	49	2	4	7	5	24	28	25.9	5	6	3	25	8	26.8	6	5	0	25	48	27.6	6	3	9.7	26	28	28.5	9.7	1	4	27	8	29.3	10.7
52	9	4	23	8	24.4	1	7	1	23	47	1	1	16.6	7.9	24	26	0	2	4	8.6	25	5	26.8	2	18.2	3	25	45	27.7	3	0	0	26	24	28.5	4
53	8	1	22	26	23.6	4.7	15.6	6.8	23	4	24.3	5.7	5	5	23	43	25.1	6.8	17.3	2	24	22	25.9	7.8	1	8.9	25	0	26.8	8.9	18.9	9.6	25	39	27.7	0
54	7	5.7	21	42	22.7	3	5	4	22	20	23.4	3	4	1	22	58	24.2	4	2	7.8	23	37	0	4	0	5	24	15	25.9	5	8	2	24	53	26.8	9.6
55	6	3	20	58	21.8	3.9	4	0	21	35	22.5	4.9	3	6.7	22	13	23.3	0	1	4	22	50	24.1	0	17.9	1	23	28	24.9	1	7	8.8	24	5	25.8	2
56	5	4.9	20	12	20.8	4	3	5.6	20	49	21.5	4	2	3	21	26	22.3	5.5	0	0	22	3	23.1	6.5	8	7.7	22	39	23.9	7.6	6	4	23	16	24.8	8.7

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } 21°					H. M. S. } 22°					H. M. S. } 23°					H. M. S. } 24°					H. M. S. } 25°					H. M. S. } 26°										
SID. T. 11 26 56 } 21°		ARC 171° 44'.0					H. M. S. } 22°					H. M. S. } 23°					H. M. S. } 24°					H. M. S. } 25°					H. M. S. } 26°										
		172° 39'.2					173° 34'.4					174° 29'.6					175° 24'.7					176° 19'.8															
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3						
		°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"						
22	22.2	19.3	13	31	14.0	17.1	23.2	20.1	14	20	14.9	18.1	24.1	21.0	15	9	15.8	19.1	25.0	21.8	15	58	16.7	20.0	25.9	22.7	16	47	17.6	21.0	26.9	23.5	17	36	18	5	22.0
23	2	1	13	5	13.7	0	1	19.9	13	54	6	0	0	20.7	14	43	5	18.9	24.9	6	15	31	4	19.9	9	4	16	20	3	20.9	8	3	17	9	2	21.9	
24	1	18.8	12	39	4	16.9	0	7	13	28	2	17.8	0	5	14	16	2	8	9	3	15	5	0	8	8	2	15	53	16.9	8	7	0	16	42	17.8	8	
25	0	6	12	13	0	8	0	4	13	1	13.9	7	23.9	3	13	49	14.8	7	8	1	14	38	15.7	7	7	21.9	15	26	6	7	6	22.8	16	15	5	7	
26	0	4	11	46	12.7	6	22.9	2	12	34	6	6	8	0	13	22	5	6	7	20.9	14	10	4	6	7	7	14	58	3	6	26.6	5	15	47	2	6	
27	21.9	1	11	19	4	5	8	0	12	6	2	5	7	19.8	12	55	1	18.5	7	6	13	43	0	19.5	25.6	4	14	31	15.9	5	5	3	15	19	16.8	4	
28	9	17.9	10	51	0	16.4	8	18.7	11	39	12.9	17.4	7	5	12	27	13.8	3	24.6	4	13	15	14.7	3	5	2	14	3	6	20.3	4	0	14	50	5	21.3	
29	8	7	10	23	11.7	2	7	5	11	11	5	2	23.6	3	11	59	4	2	5	1	12	46	3	2	4	20.9	13	34	2	2	3	21.7	14	22	1	2	
30	7	4	9	55	3	1	6	2	10	43	2	1	5	0	11	30	1	1	4	19.8	12	17	0	1	3	7	13	5	14.9	1	26.3	5	13	53	15.8	1	
31	6	2	9	27	10.9	0	22.5	0	10	14	11.8	0	5	18.8	11	1	12.7	17.9	4	6	11	48	13.6	18.9	25.3	4	12	35	5	0	2	2	13	23	4	0	
32	21.6	16.9	8	57	6	15.8	5	17.7	9	44	5	16.8	4	5	10	31	3	8	3	3	11	19	2	8	2	1	12	6	1	19.8	1	20.9	12	53	0	20.8	
33	5	6	8	28	2	7	4	4	9	15	1	7	23.3	2	10	1	11.9	6	24.2	0	10	48	12.8	7	1	19.9	11	35	13.7	7	0	7	12	22	14.6	7	
34	4	4	7	58	9.8	5	3	2	8	45	10.7	5	2	0	9	31	5	5	1	18.8	10	18	4	5	0	6	11	4	3	5	25.9	4	11	51	2	5	
35	4	1	7	28	4	3	22.3	16.9	8	14	2	3	1	17.7	9	0	1	17.3	0	5	9	46	0	18.3	24.9	3	10	33	12.9	4	8	1	11	19	13.8	4	
36	3	15.9	6	57	8.9	2	2	6	7	43	9.8	2	0	4	8	29	10.7	2	0	2	9	15	11.5	2	8	0	10	1	4	2	7	19.8	10	47	3	2	
37	21.2	6	6	26	5	0	1	3	7	11	3	0	22.9	1	7	57	2	0	23.9	17.9	8	42	1	0	8	18.7	9	28	0	0	6	5	10	14	12.9	1	
38	1	4	5	53	0	14.8	0	1	6	39	8.9	15.8	8	16.9	7	24	9.7	16.8	8	6	8	9	10.6	17.8	7	4	8	55	11.5	18.9	25.6	2	9	40	4	19.9	
39	1	1	5	21	7.5	6	21.9	15.8	6	6	4	6	7	6	6	51	3	6	7	4	7	36	1	7	24.6	2	8	21	0	7	5	0	9	6	11.9	7	
40	0	14.8	4	47	0	4	9	5	5	32	7.9	4	6	3	6	17	8.8	5	6	1	7	2	9.6	5	5	17.9	7	46	10.5	5	4	18.7	8	31	4	5	
41	20.9	5	4	13	6.5	2	8	2	4	58	4	2	22.6	15.9	5	42	2	3	5	16.8	6	27	1	3	4	6	7	11	0	3	3	4	7	56	10.9	3	
42	8	2	3	39	5.9	0	7	14.9	4	23	6.8	0	5	6	5	7	7.7	0	23.4	5	5	51	8.6	1	3	3	6	35	9.5	1	25.2	0	7	19	4	1	
43	7	13.9	3	3	4	13.8	21.6	6	3	47	3	14.8	5	3	4	30	1	15.8	3	2	5	14	0	16.8	24.2	16.9	5	58	8.9	17.9	1	17.7	6	42	9.8	18.9	
44	6	5	2	27	4.8	5	5	3	3	10	5.7	6	4	0	3	53	6.5	6	2	15.9	4	37	7.4	6	1	6	5	20	3	6	0	3	6	4	2	7	
45	20.6	2	1	50	2	3	4	0	2	33	1	4	22.3	14.7	3	16	5.9	4	1	5	3	58	6.8	4	0	2	4	41	7.7	4	24.9	0	5	25	8.6	6	
46	5	12.9	1	12	3.6	1	3	13.7	1	54	4.5	2	2	4	2	37	3	2	0	2	3	19	2	2	23.9	15.9	4	2	1	2	8	16.6	4	44	0	4	
47	4	6	0	33	2.9	12.9	21.2	4	1	15	3.8	13.9	1	0	1	57	4.7	0	22.9	14.9	2	39	5.5	0	8	6	3	21	6.4	0	7	3	4	3	7.3	2	
48	3	3	29	53	3	6	1	0	0	35	2	6	0	13.6	1	16	0	14.8	8	5	1	58	4.9	15.7	7	2	2	40	5.7	16.8	6	15.9	3	21	6.6	0	
49	20.2	11.9	29	12	1.6	3	0	12.6	29	53	2.5	4	21.9	3	0	34	3.3	5	7	1	1	15	2	5	6	14	8	1	57	1	5	24.4	5	2	38	0	17.7
50	1	5	28	30	0.9	0	20.9	2	29	11	1.8	1	8	12.9	29	51	2.6	2	6	13.7	0	32	3.5	2	5	4	1	13	4.4	3	3	1	1	54	5.3	4	
51	0	1	27	48	1	11.7	8	11.8	28	27	0	12.8	7	5	29	7	1.8	13.9	5	3	29	47	2.7	14.9	23.4	0	0	28	3.6	0	2	14.7	1	8	4.5	1	
52	19.9	10.7	27	3	29.3	4	7	4	27	42	0.2	5	6	1	28	22	0	6	22.4	12.9	29	2	1.9	6	3	13.6	29	41	2.8	15.7	1	3	0	21	3.7	16.8	
53	8	3	26	18	28.5	1	6	0	26	56	29.3	1	21.5	11.7	27	35	0.2	2	3	5	28	14	0	3	2	2	28	53	1.9	4	23.9	13.9	29	33	2.8	5	
54	7	9	25	31	27.6	10.7	20.5	10.6	26	9	28.4	11.7	4	3	26	47	29.2	12.8	2	1	27	26	0.1	13.9	0	12	8	28	4	0.9	0	8	5	28	43	1.8	1
55	6	5	24	43	26.6	3	4	2	25	20	27.4	3	2	10.9	25	58	28.2	4	0	11.6	26	36	29.1	5	22.8	3	27	13	29	9	14.6	0	0	27	51	0.7	15.7
56	5	1	23	53	25.5	9.8	3	9.8	24	30	26.3	10.9	1	4	25	7	27.1	0	21.9	1	25	44	28.0	1	7	11.8	26	21	28.8	2	5	12.5	26	58	29.6	3	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 11 45 19 } $\approx 26^\circ$ ARC 176° 19'.8					H. M. S. 11 48 59 } $\approx 27^\circ$ 177° 14'.8					H. M. S. 11 52 40 } $\approx 28^\circ$ 178° 9'.9					H. M. S. 11 56 20 } $\approx 29^\circ$ 179° 5'.0					H. M. S. 12 0 0 } $\approx 0^\circ$ 180° 0'.0					H. M. S. 12 3 40 } $\approx 1^\circ$ 180° 55'.0					
11.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	$\approx$	$\mu$	$f$	$\nu$	$\infty$	$\approx$	$\mu$	$f$	$\nu$	$\infty$	$\approx$	$\mu$	$f$	$\nu$	$\infty$	$\approx$	$\mu$	$f$	$\nu$	$\infty$	$\mu$	$\mu$	$f$	$\nu$	$\infty$	$\mu$	$\mu$	$f$	$\nu$	$\infty$
22	26.9	23.5	17 36	18.5	22.0	27.8	24.3	18 24	19.4	23.0	28.7	25.2	19 14	20.3	24.0	29.7	26.0	20 3	21.2	25.0	0.6	26.8	20 52	22.1	26.0	1.5	27.7	21 41	23.0	27.0
23	8	3 17 9	2	21.9	7	1 17 57	1	22.9	6	24.9	18 47	0	23.9	6	25.8	19 36	20.9	24.9	5	6	20 25	21.8	25.9	4	4	21 14	22.7	26.9		
24	7	0 16 42	17.8	8	7	23.8	17 30	18.7	8	6	7 18 19	19.6	8	5	5 19 8	5	8	4	3	19 57	4	8	3	2	20 46	4	8			
25	6	22.8	16 15	5	7	6	6 17 3	4	7	5	4 17 52	3	7	4	2 18 40	2	7	3	1	19 29	1	7	2	26.9	20 18	0	7			
26	26.6	5 15 47	2	6	27.5	3 16 35	1	6	4	2	17 24	0	6	3	0 18 12	19.9	6	0.2	25.8	19 1	20.8	6	1.1	6	19 50	21.7	6			
27	5	3 15 19	16.8	4	4	1 16 7	17.7	5	28.3	23.9	16 55	18.6	5	29.3	24.7	17 44	5	5	2	5	18 33	4	5	0	4	19 21	4	5		
28	4	0 14 50	5	21.3	3	22.8	15 38	4	22.3	3	6 16 26	3	23.3	2	4 17 15	2	24.4	1	3	18 4	1	25.4	0	1	18 51	0	26.4			
29	3	21.7	14 22	1	2	3	5 15 9	0	2	2	4 15 57	17.9	2	1	2 16 45	18.9	3	0	0	17 34	19.8	3	0.9	25.8	18 22	20.7	3			
30	26.3	5 13 53	15.8	1	27.2	3 14 40	16.7	1	1	1	1 15 28	6	1	0	23.9	16 16	5	2	29.9	24.7	17 4	4	2	8	5	17 52	3	2		
31	2	2 13 23	4	0	1	0 14 10	3	0	0	22.8	14 58	2	0	28.9	6 15 45	1	0	8	4	16 34	0	1	7	2	17 21	0	0			
32	1	20.9	12 53	0	20.8	0	21.7	13 39	15.9	21.8	27.9	5 14 27	16.8	22.8	8	3 15 15	17.8	23.9	7	2	16 3	18.7	0	6	0	16 50	19.6	25.9		
33	0	7 12 22	14.6	7	26.9	5 13 9	5	7	8	2	13 56	4	7	7	1 14 43	4	8	6	23.9	15 31	3	24.8	5	24.7	16 18	2	8			
34	25.9	4 11 51	2	5	8	2 12 38	1	5	7	0	13 24	0	6	6	22.8	14 11	0	6	5	6	14 59	17.9	7	0.4	4	15 45	18.8	6		
35	8	1 11 19	13.8	4	7	20.9	12 6 14.7	4	6	21.7	12 52	15.6	4	5	5 13 39	16.6	5	29.4	3	14 26	5	6	3	1	15 13	4	5			
36	7	19.8	10 47	3	2	6	6 11 33	2	2	5	4 12 19	1	2	28.4	2 13 6	1	23.3	3	0	13 52	0	4	2	23.8	14 39	17.9	25.3			
37	6	5 10 14	12.9	1	5	3 11 0	13.8	1	27.4	1 11 46	14.7	1	3	21.9	12 32	15.7	2	2	22.7	13 18	16.6	3	1	4	14 5	5	2			
38	25.6	2 9 40	4	19.9	26.4	0 10 26	3	20.9	3	20.8	11 12	2	21.9	2	6 11 58	2	0	1	3	12 44	1	1	29.9	1	13 30	0	0			
39	5	0 9 6	11.9	7	3	19.7	9 52	12.8	7	2	5 10 37	13.7	8	1	3 11 23	14.7	22.9	0	0	12 8	15.6	23.9	8	22.8	12 54	16.5	24.9			
40	4	18.7	8 31	4	5	2 4 9 16	3	6	1	1 10 1	2	6	0	0	10 47	2	7	28.9	21.7	11 32	1	7	7	5	12 17	0	8			
41	3	4 7 56	10.9	3	1	0 8 40	11.8	4	0	19.8	9 25	12.7	4	27.9	20.7	10 10	13.7	6	8	3	10 55	14.6	6	6	1	11 40	15.5	6		
42	25.2	0 7 19	4	1	0	18.7	8 4	3	2	26.9	5 8 48	2	2	8	3 9 32	1	4	6	0	10 17	1	4	5	21.7	11 2	0	4			
43	1	17.7	6 42	9.8	18.9	25.9	4 7 26	10.7	0	8	1 8 10	11.6	1	6	0 8 54	12.6	2	5	20.7	9 38	13.5	2	29.4	4	10 22	14.4	2			
44	0	3 6 4	2	7	8	0 6 47	1	19.9	7	18.8	7 31	0	20.9	5	19.6	8 15	0	0	28.4	4 8 59	12.9	0	2	0	9 42	13.8	0			
45	24.9	0 5 25	8.6	6	7	17.7	6 8 9.5	7	6	5	6 51	10.4	7	4	2 7 34	11.4	21.8	3	0	8 18	3	22.8	1	20.6	9 1	2	23.8			
46	8	16.6	4 44	0	4	6 4 5 27	8.9	5	5	2	6 10 9.7	5	27.3	18.9	6 53	10.7	6	2	19.6	7 36	11.7	5	0	3	8 19	12.6	6			
47	7	3 4 3	7.3	2	5	1 4 46	2	3	26.4	17.8	5 28	1	3	2	5 6 10	1	4	1	2	6 53	0	3	28.9	19.9	7 36	11.9	5			
48	6	15.9	3 21	6.6	0	25.4	16.7	4 3 7.5	1	3	4 4 45	8.4	1	1	1 5 27	9.4	2	27.9	18.8	6 9	10.3	1	8	5	6 52	2	3			
49	24.4	5 2 38	0	17.7	3	3 3 19	6.8	18.8	1	0	4 1 7.7	19.8	0	17.7	4 42	8.7	20.9	8	4	5 24	9.6	21.9	6	1	6 6	10.5	1			
50	3	1 1 54	5.3	4	1	15.9	2 34	1	5	0	16.6	3 15	0	5	26.8	3 3 56	7.9	6	7	0 4 38	8.8	7	5	18.7	5 19	9.7	22.9			
51	2	14.7	1 8 4.5	1	0	5 1 48	5.3	2	25.8	2 2 29	6.2	2	6	16.9	3 9	1	4	6	17.6	3 50	0	4	28.3	3 4 30	8.9	6				
52	1	3 0 21	3.7	16.8	24.9	1 1 1 4.5	17.9	7	15.8	1 40	5.4	18.9	5	5	2 20	6.3	1	27.4	2 3 1	7.1	1	1	1	17.9	3 40	0	3			
53	23.9	13.9	29 33	2.8	5	8 14.6	0 12 3.6	6	6	3	0 51	4.5	6	4	0 1 30	5.4	19.8	2	16.7	2 10	6.2	20.8	0	4	2 49	7.1	0			
54	8	5 28 43	1.8	1	6	1 29 21	2.6	2	5	14.8	0 0 3.5	3	3	3	15.5	0 38	4.4	4	0	2 1 17	5.2	5	27.9	16.9	1 56	6.1	21.7			
55	6	0 27 51	0.7	15.7	4	13.6	28 29	1.6	16.8	3	3 29 7	2.5	0	1	0 29 45	3.3	1	26.9	15.7	0 23	4.2	2	7	4 1 1	5.1	4				
56	5	12.5	26 58	29.6	3	3	1 27 35	0.5	4	2	13.8	28 13	1.4	17.6	25.9	14.5	28 50	2.2	18.7	7	2 29 28	3.0	19.9	5	15.9	0 5	4.0	1		

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 12 7 20 } $\approx 2^\circ$ ARC 181° 50'.1					H. M. S. 12 11 1 } $\approx 3^\circ$ 182° 45'.2					H. M. S. 12 14 41 } $\approx 4^\circ$ 183° 40'.2					H. M. S. 12 18 21 } $\approx 5^\circ$ 184° 35'.3					H. M. S. 12 22 2 } $\approx 6^\circ$ 185° 30'.4					H. M. S. 12 25 42 } $\approx 7^\circ$ 186° 25'.6				
II.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	24	28.5	22.31	23.9	28.0	3.3	29.3	23.20	24.8	29.0	4.2	0.2	24.10	25.7	0.0	5.1	1.0	24.59	26.6	1.1	6.0	1.8	25.49	27.6	2.1	6.9	2.6	26.40	28.5	3.1	
23	3	222	3	6	27.9	2	122	53	5	28.9	1	29.9	23.42	4	29.9	0	0.7	24.31	3	0	5.9	5	25.21	3	0	8	4	26.11	2	0	
24	2	0	21.35	3	8	1	28.8	22.25	2	8	0	6	23.14	1	9	4.9	5	24.3	0	0.9	8	3	24.53	0	1.9	7	1	25.43	27.9	2.9	
25	1	27.7	21	7	22.9	7	0	6	21.56	23.9	7	3.9	4	22.45	24.8	8	8	2	23.35	25.7	8	7	0	24.24	26.6	8	6	1.8	25.14	6	8
26	0	5	20.38	6	6	2.9	3	21.27	5	6	8	1	22.17	4	7	7	29.9	23.6	4	7	6	0.7	23.55	3	7	5	5	24.45	3	7	
27	1.9	2	20.9	3	5	8	0	20.58	2	5	7	28.8	21.47	1	6	6	6	22.36	0	6	5	4	23.26	0	6	6.4	3	24.15	26.9	7	
28	8	26.9	19.40	21.9	27.4	7	27.7	20.29	22.9	28.4	6	5	21.18	23.8	29.5	5	4	22.6	24.7	5	5.4	2	22.56	25.7	5	3	0	23.45	6	2.6	
29	7	6	19.10	6	3	6	4	19.59	5	3	5	3	20.47	4	3	4.4	1	21.36	4	0.4	3	29.9	22.25	3	1.4	2	0.7	23.14	3	5	
30	7	3	18.40	3	2	5	2	19.28	2	2	3.4	0	20.17	1	2	3	28.8	21.5	0	3	2	6	21.54	0	3	1	4	22.43	25.9	4	
31	6	1	18.9	20.9	1	2.4	26.9	18.57	21.8	1	3	27.7	19.45	22.8	1	2	5	20.34	23.7	2	1	3	21.22	24.6	2	0	1	22.11	6	3	
32	1.5	25.8	17.37	5	26.9	3	6	18.26	4	0	2	4	19.14	4	0	1	2	20.1	3	1	0	0	20.50	3	1	5.8	29.8	21.38	2	2.2	
33	4	5	17.5	1	8	2	3	17.53	0	27.8	1	1	18.41	0	28.9	0	27.9	19.29	22.9	0	4.9	28.7	20.17	23.9	0	7	5	21.5	24.8	1	
34	3	2	16.33	19.7	7	1	0	17.20	20.6	7	0	26.8	18.8	21.6	8	3.9	6	18.56	5	29.8	7	4	19.44	5	0.9	6	2	20.32	4	0	
35	1	24.9	15.59	3	5	0	25.7	16.47	2	6	2.9	5	17.34	2	6	8	2	18.22	1	7	6	0	19.9	0	8	5	28.8	19.57	0	1.9	
36	0	5	15.26	18.9	26.4	1.9	3	16.13	19.8	5	8	1	17.0	20.7	5	6	26.9	17.47	21.7	6	5	27.7	18.35	22.6	7	5.4	5	19.22	23.5	7	
37	0.9	2	14.51	4	2	8	0	15.38	3	27.3	6	25.8	16.25	3	28.4	5	6	17.12	2	5	4.4	4	17.59	1	5	3	2	18.47	1	6	
38	8	23.9	14.16	17.9	1	7	24.7	15.2	18.9	2	5	5	15.49	19.8	2	3.4	3	16.36	20.7	29.3	3	0	17.23	21.7	0.4	1	27.8	18.10	22.6	5	
39	7	6	13.40	5	0	6	4	14.26	4	0	2.4	1	15.12	3	1	3	25.9	15.59	2	2	2	26.7	16.46	2	3	0	5	17.32	1	1.4	
40	6	3	13.3	0	25.9	1.4	1	13.49	17.9	26.9	3	24.8	14.35	18.8	0	2	6	15.21	19.7	1	0	4	16.7	20.7	2	4.9	2	16.54	21.6	2	
41	5	0	12.25	16.4	7	3	23.8	13.11	4	7	2	4	13.57	3	27.9	0	2	14.42	2	28.9	3.9	0	15.28	2	0	8	26.9	16.15	1	1	
42	0.3	22.6	11.47	15.9	5	2	4	12.32	16.8	5	0	1	13.17	17.8	7	2.9	24.8	14.3	18.7	8	8	25.6	14.48	19.6	29.9	6	5	15.34	20.6	0.9	
43	2	3	11.7	3	3	1	0	11.52	3	4	1.9	23.7	12.37	2	5	8	5	13.22	1	6	6	3	14.7	1	7	5	1	14.53	0	8	
44	1	21.9	10.27	14.7	1	0.9	22.7	11.11	15.7	2	8	3	11.56	16.6	4	6	1	12.40	17.5	4	5	24.9	13.25	18.5	6	4.3	25.7	14.10	19.4	6	
45	0	5	9.45	1	24.9	8	3	10.29	1	0	6	22.9	11.13	0	2	5	23.7	11.58	16.9	3	3.3	5	12.42	17.8	4	2	3	13.27	18.8	5	
46	29.9	1	9	3	13.5	8	7	21.9	9.46	14.4	25.8	5	5	10.30	15.3	0	2.3	3	11.14	3	1	2	1	11.58	2	2	0	24.9	12.42	1	0.3
47	8	20.7	8.19	12.8	6	6	5	9.2	13.7	7	1.3	1	9.45	14.6	26.8	2	22.9	10.29	15.6	27.9	1	23.7	11.12	16.5	0	3.9	5	11.56	17.5	1	
48	6	3	7.34	1	4	0.4	1	8.16	0	5	2	21.7	8.59	13.9	6	1	5	9.42	14.9	7	2.9	3	10.25	15.8	28.8	8	1	11.9	16.8	0	
49	5	19.9	6.48	11.4	2	3	20.7	7.30	12.3	3	1	3	8.12	2	4	1.9	1	8.54	2	5	8	22.9	9.37	1	6	6	23.6	10.20	0	29.8	
50	3	5	6.0	10.6	0	2	2	6.41	11.5	1	0	20.9	7.23	12.5	2	8	21.6	8.5	13.4	3	6	4	8.47	14.4	4	4	1	9.29	15.3	6	
51	1	1	5.11	9.8	23.7	0	19.8	5.52	10.7	24.9	0.9	5	6.33	11.7	25.9	6	2	7.15	12.6	1	4	21.9	7.56	13.6	2	2	22.6	8.58	14.5	3	
52	28.9	18.6	4.21	8.9	4	29.9	3	5.1	9.8	6	7	0	5.41	10.8	6	4	20.7	6.22	11.7	26.8	2	4	7.3	12.7	0	0	1	7.44	13.0	1	
53	8	1	3.29	0	1	7	18.8	4.8	8.9	3	5	19.5	4.48	9.9	3	2	2	5.29	10.8	6	0	20.9	6.8	11.7	27.8	2.9	21.6	6.49	12.7	28.8	
54	6	17.6	2.35	7.0	22.8	5	3	3.14	7.9	0	3	0	3.53	8.9	1	1	19.7	4.33	9.8	3	1.9	4	5.12	10.7	5	7	1	5.52	11.7	6	
55	5	1	1.40	6.0	5	3	17.8	2.18	6.9	23.7	1	18.5	2.56	7.8	24.8	0.9	2	3.38	8.7	0	7	19.9	4.14	9.6	2	5	20.5	4.53	10.6	3	
56	3	16.6	0.42	4.9	2	1	3	1.20	5.7	4	29.9	17.9	1.58	6.6	5	6	18.6	2.36	7.5	25.7	5	3	3.14	8.4	26.8	3	19.9	3.52	9.4	0	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 12 25 42 } $\approx 7^\circ$ ARC 186° 25'.6					H. M. S. 12 29 23 } $\approx 8^\circ$ 187° 20'.8					H. M. S. 12 33 4 } $\approx 9^\circ$ 188° 16'.0					H. M. S. 12 36 45 } $\approx 10^\circ$ 189° 11'.3					H. M. S. 12 40 27 } $\approx 11^\circ$ 190° 6'.6					H. M. S. 12 44 8 } $\approx 12^\circ$ 191° 2'.0				
Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
22	6.9	2.6	26.40	28.5	3.1	7.8	3.5	27.29	29.4	4.1	8.7	4.3	28.20	0.4	5.1	9.6	5.1	29.10	1.3	6.2	10.5	5.9	0	1	2.3	7.2	11.4	6.8	0.52	3.2	8.2
23	8	4	26.11	2	0	7	2	27.1	1	0	6	0	27.52	1	1	5	4.8	28.42	0	1	4	7	29.32	0	1	3	5	0.23	2.9	2	
24	7	1	25.43	27.9	2.9	6	2.9	26.33	28.8	0	5	3.7	27.23	29.8	0	4	6	28.13	0.7	0	3	4	29.4	1.7	1	1	2	29.54	6	1	
25	6	1.8	25.14	6	8	5	6	26.4	5	3.9	4	5	26.54	5	4.9	3	3	27.44	4	0	1	1	28.34	4	0	0	5.9	29.25	3	0	
26	5	5	24.45	3	7	7.4	4	25.34	2	8	8.3	2	26.24	1	8	1	0	27.14	1	5.9	0	4.8	28.5	1	6.9	10.9	6	28.55	0	0	
27	6.4	3	24.15	26.9	7	3	1	25.4	27.9	7	2	2.9	25.54	28.8	7	0	3.7	26.44	29.8	8	9.9	5	27.34	0.7	8	8	3	28.25	1.7	7.9	
28	3	0	23.45	6	2.6	2	1.8	24.34	5	6	0	6	25.24	5	7	8.9	4	26.14	5	7	8	2	27.4	4	8	7	0	27.54	4	8	
29	2	0.7	23.14	3	5	1	5	24.3	2	5	7.9	3	24.53	2	4.6	8	1	25.42	1	6	7	3.9	26.32	1	7	6	4.7	27.22	1	7	
30	1	4	22.43	25.9	4	6.9	2	23.32	26.9	3.4	8	0	24.21	27.8	5	7	2.8	25.11	28.8	5	6	6	26.0	29.8	6.6	5	4	26.50	0.7	7	
31	0	1	22.11	6	3	8	0.9	23.0	5	3	7	1.7	23.49	5	4	6	5	24.38	4	5.4	5	3	25.28	4	5	10.3	1	26.17	4	7.6	
32	5.8	29.8	21.38	2	2.2	7	6	22.27	1	2	6	4	23.16	1	3	5	2	24.5	1	3	9.4	0	24.54	1	4	2	3.8	25.44	0	5	
33	7	5	21.5	24.8	1	6	3	21.54	25.8	1	5	1	22.43	26.7	4.2	8.4	1.9	23.32	27.7	2	2	2.7	24.21	28.7	3	1	5	25.10	29.6	4	
34	6	2	20.32	4	0	5	0	21.20	4	0	7.4	0.8	22.9	3	1	2	6	22.57	3	1	1	4	23.46	3	6.2	0	2	24.35	2	3	
35	5	28.8	19.57	0	1.9	6.4	29.6	20.45	24.9	2.9	2	4	21.34	25.9	0	1	2	22.22	26.9	0	0	0	23.11	27.9	1	9.9	2.8	24.0	28.8	7.2	
36	5.4	5	19.22	23.5	7	3	3	20.10	5	8	1	1	20.58	5	3.9	0	0.9	21.47	5	4.9	8.9	1.7	22.35	4	0	7	5	23.24	4	1	
37	3	2	18.47	1	6	1	0	19.34	1	7	0	29.8	20.21	0	8	7.9	6	21.10	0	8	7	3	21.58	0	5.9	6	1	22.47	0	0	
38	1	27.8	18.10	22.6	5	0	28.6	18.57	23.6	6	6.9	4	19.45	24.6	6	7	2	20.32	25.6	7	6	0	21.20	26.6	8	5	1.8	22.9	27.6	6.9	
39	0	5	17.32	1	1.4	5.9	3	18.19	1	2.4	7	1	19.7	1	5	6	29.8	19.54	1	6	5	0.6	20.42	1	7	9.3	4	21.30	1	8	
40	4.9	2	16.54	21.6	2	7	27.9	17.41	22.6	3	6	28.7	18.28	23.6	3.4	5	5	19.15	24.6	5	8.3	3	20.2	25.6	6	2	0	20.50	26.6	7	
41	8	26.9	16.15	1	1	6	5	17.1	1	2	5	3	17.48	1	3	7.3	1	18.34	1	4.4	2	29.9	19.22	0	5	0	0.6	20.9	0	6	
42	6	5	15.34	20.6	0.9	5	2	16.21	21.5	0	6.3	27.9	17.7	22.5	1	2	28.7	17.53	23.6	3	0	5	18.40	24.5	5.3	8.9	2	19.27	25.5	4	
43	5	1	14.53	0	8	5.3	26.8	15.39	0	1.9	2	5	16.25	21.9	0	0	3	17.11	0	2	7.9	1	17.57	0	2	7	29.8	18.43	0	6.3	
44	4.3	25.7	14.10	19.4	6	2	4	14.56	20.4	7	0	1	15.41	3	2.9	6.9	27.9	16.27	22.4	1	7	28.7	17.13	23.4	1	6	4	17.59	24.4	2	
45	2	3	13.27	18.8	5	0	0	14.12	19.8	6	5.9	26.7	14.57	20.7	8	7	5	15.42	21.8	3.9	5	2	16.28	22.8	0	4	0	17.14	23.8	1	
46	0	24.9	12.42	1	0.3	4.9	25.5	13.27	1	5	7	3	14.12	1	6	5	0	14.56	2	7	4	27.8	15.41	1	4.8	8.2	28.5	16.27	1	0	
47	3.9	5	11.56	17.5	1	8	1	12.40	18.4	3	6	25.9	13.25	19.4	4	4	26.6	14.9	20.5	5	3	4	14.53	21.4	7	1	1	15.38	22.5	5.8	
48	8	1	11.9	16.8	0	7	24.7	11.52	17.7	1	5	5	12.37	18.7	2	2	2	13.20	19.8	3	1	0	14.4	20.7	5	0	27.7	14.48	21.8	6	
49	6	23.6	10.20	0	29.8	5	3	11.3	0	0.9	3	0	11.47	0	1	1	25.8	12.30	1	2	6.9	26.5	13.13	0	4	7.8	2	13.57	0	5	
50	4	1	9.29	15.3	6	3	23.8	10.12	16.3	7	1	24.5	10.55	17.3	1.9	5.9	3	11.38	18.3	0	7	0	12.21	19.3	2	6	26.7	13.4	20.3	4	
51	2	22.6	8.38	14.5	3	1	3	9.20	15.5	5	4.9	0	10.2	16.5	6	7	24.8	10.44	17.5	2.8	5	25.5	11.27	18.5	0	4	2	12.9	19.5	2	
52	0	1	7.44	13.6	1	3.9	22.8	8.26	14.6	2	7	23.5	9.7	15.6	4	6	3	9.49	16.6	6	3	0	10.31	17.6	3.7	2	25.7	11.13	18.6	4.9	
53	2.9	21.6	6.49	12.7	28.8	7	3	7.30	13.6	0	5	0	8.10	14.6	2	4	23.8	8.52	15.6	3	2	24.5	9.33	16.6	5	0	2	10.14	17.6	7	
54	7	1	5.52	11.7	6	5	21.8	6.32	12.6	29.8	3	22.5	7.12	13.6	0.9	2	2	7.53	14.5	1	0	23.9	8.33	15.5	3	6.8	24.6	9.14	16.5	5	
55	5	20.5	4.53	10.6	3	3	2	5.32	11.5	5	1	21.9	6.12	12.5	7	0	22.6	6.51	13.4	1.9	5.8	3	7.31	14.4	1	6	0	8.11	15.4	3	
56	3	19.9	3.52	9.4	0	1	20.6	4.31	10.3	3	3.8	3	5.10	11.3	5	4.7	0	5.48	12.2	7	5	22.7	6.27	13.2	2.9	3	23.4	7.6	14.1	0	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 12 47 50 } $\approx 13^\circ$ ARC 191° 57'.5					H. M. S. 12 51 32 } $\approx 14^\circ$ 192° 53'.0					H. M. S. 12 55 14 } $\approx 15^\circ$ 193° 48'.6					H. M. S. 12 58 57 } $\approx 16^\circ$ 194° 44'.3					H. M. S. 13 2 40 } $\approx 17^\circ$ 195° 40'.0					H. M. S. 13 6 23 } $\approx 18^\circ$ 196° 35'.9																
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3											
Lat.	m	f	l	z	x	m	f	l	z	x	m	f	l	z	x	m	f	l	z	x	m	f	l	z	x	m	f	l	z	x											
22	12.3	7.6	1.43	4.2	9.3	13.1	8.4	2.34	5.2	10.3	14.0	9.3	3.26	6.1	11.4	14.9	10.1	4.18	7.1	12.4	15.8	11.0	5.10	8.1	13.5	16.7	11.8	6.1	9.1	14.6											
23	1	3	1.14	3.9	2	0	2	2.5	4.9	3	13.9	0	2.57	5.9	3	8	9.8	3.49	6.8	4	7	10.7	4.41	7.8	4	6	5	5.33	8.8	5											
24	0	0	0.45	6	2	12.9	7.9	1.36	6	2	8	8.7	2.28	6	3	7	6	3.19	6	3	6	4	4.11	5	4	5	2	5.3	6	5											
25	11.9	6.8	0.16	3	1	8	6	1.7	3	1	7	4	1.58	3	2	6	3	2.50	3	3	5	1	3.41	2	3	4	10.9	4.33	3	4											
26	8	5	29.46	0	0	7	3	0.36	0	1	6	1	1.28	0	11.1	5	0	2.19	0	2	15.4	9.8	3.11	6.9	3	16.3	6	4	3	0.14.4											
27	7	2	29.15	2.7	0	6	0	0.6	3.7	0	5	7.8	0.57	4.7	1	14.4	8.7	1.49	5.7	12.2	2	5	2.40	6	13.2	1	3	3.32	7.7	3											
28	6	5.9	28.44	4	8.9	5	6.7	29.35	3	9.9	13.4	5	0.26	3	0	2	3	1.17	3	1	1	2	2.9	3	2	0	0	3.0	4	3											
29	5	6	28.12	0	8	12.4	4	2.9	3	0	9	2	2.29.54	0	10.9	1	0	0.45	0	0	0	8.8	1.37	0	1	15.9	9.7	2.28	1	2											
30	11.4	2	27.40	1.7	7	2	1.28	3.1	2.7	8	1	6.9	2.92	3.7	9	0	7.7	0.13	4.7	0	14.9	5	1	4	5.7	0	8	3	1.55	6.7	14.1										
31	2	4.9	27.8	4	6	1	5.7	27.58	4	7	0	6.28	4.9	4	8	13.9	4	2.9.40	4	11.9	7	2	0.31	4	0	6	0	1.22	4	1											
32	1	6	26.34	0	8.6	0	4	27.24	0	6	12.9	2	2.8	15	0	7	7	1.29	6	0	8	6	7.9	2.9.57	0	12.9	5	8.7	0.48	1	0										
33	0	3	26	0	0.6	5	11.9	1.26	5.0	1.6	9.6	7	5.9	27.40	2.6	7	6	6.7	28.31	3.7	7	5	5.29.22	4.7	8	15.4	3	0.13	5.7	13.9											
34	10.9	0	25.25	2	4	7	4.8	26.15	2	5	6	6.27	5	2	10.6	5	4	2.7	5.5	3	7	14.4	2.28	4.6	3	8	2	0.29.37	3	9											
35	7	3.6	24.49	29.8	3	6	4	2.5	3.9	0.8	4	5	2.26	2.8	1.8	5	13.3	0	2.7	1.9	2.9	11.6	2	6.8	2.8	9	3.9	7	1	7.6	2.9	0	4.9	8							
36	6	3	24.13	4	8.2	5	1	2.5	2	4	3	12.3	4.9	2.5	5.1	4	4	2	5.7	26.41	5	5	1	5.27.32	5	12.6	14.9	3	2.8	2.2	5	7									
37	5	2.9	23.35	0	1	11.3	3.7	24.24	0	9.2	2	5	2.5	1.4	0	3	1	3.26	3	0	4	13.9	1.26	5.4	1	5	8	6.9	2.7	4.4	1	7									
38	10.3	6	22.57	28.6	1	2	4	2.3	4.6	29.5	1	1	2.24	3.5	0.5	10.3	12.9	0	2.5	2.4	1.6	3	8	5.7	2.6	1.5	2.6	5	6	5.2	7	3.7	13.6								
39	2	2	22.18	1	0	0	0	2.3	6	1	0	11.9	3.8	2.3	5.5	1	2	8	4.6	24.44	1	11.2	6	4	2.5	3.4	2	4	5	2.26	2.4	2	6								
40	0	1.8	21.38	27.6	7.9	10.9	2.6	2.2	2.6	28.6	0	7	4	2.3	1.5	29.6	1	6	2.24	4	0.6	2	5	0	2.4	5.3	1.7	12.3	14.3	5.8	2.5	4.2	2.7	5							
41	9.9	4	20.57	0	8	7	2	2.1	4.4	0	8.9	6	0	2.2	3.3	1	0	4	3.8	2.3	2.2	1	1	13.3	4.6	2.4	1.1	1	2	2	4	2.5	0	2	4						
42	7	0	20.14	26.5	7	6	1.8	2.1	2.2	7.5	8	4	2.6	2.1	5.0	28.5	9.9	3	4	2.2	3.8	29.6	0	1	2	2.3	2.7	0.6	1	0	4.9	2.4	1.6	1.7	13.3						
43	6	0.6	19.31	0	5	4	4	2.0	1.8	0	7	3	2.2	1	6	0	8	1	0.2	1.5	4	10.9	0	3.7	2.2	4.2	0	0	13.8	5	2.3	3.1	1	2							
44	4	2	18.46	25.4	7.4	10.3	0	1.9	3.3	2.6	5	1	1.7	2.0	2.0	27.4	7	11.9	2.5	2.1	8	28.4	8	12.8	3	2.1	5.5	29.4	11.9	6	1	2.2	4.4	0.5	1						
45	2	29.7	18	0	2.4	3	1	0.5	1.8	4.6	2.5	8.4	10.9	3	1.9	3.3	2.6	8	1	2.0	2.0	27.8	7	6	2.8	2.1	7	2.8	8	4	3.6	2.1	5.6	29.9	0						
46	0	3	17.13	1	1	0	1	1.7	5.8	2	3	7	0.9	1.8	4.4	2	9.4	7	1.6	1.9	3.1	2	6	4	4	2.0	1.8	2	7	3	2.2	1	6	3	12.9						
47	8.9	28.8	16.24	23.4	0	9.8	29.6	1.7	9	2.4	5	6	5	1.7	5.5	2.5	3	5	2	1.8	4.1	2.6	10.5	3	1.9	1.9	2.7	2.6	6	1	2.7	2.0	1.4	28.7	8						
48	8	4	15.34	2.8	6.9	6	2	1.6	1.8	2.3	0	4	0	1.7	3.2	4.9	2	3	0.7	1.7	4.9	2.5	3	1	4	1.8	3.5	2.6	9	5	12.9	2	1.9	2.1	1	7					
49	6	0	14.42	1	7	4	2.8	7.1	5	2.5	7.9	2	2.9	5	1.6	1.1	2	0	1	2	1.6	5.5	1	2	11.9	0.9	1.7	4.1	2	11.4	7	1.7	1.8	2.7	2.4	6					
50	4	27.5	13.48	2.1	5	2	2	1.4	3.1	2.2	7	1	0	1.5	1.6	2.3	4	8.9	10.9	29.7	1.6	0	2.4	1	7	4	1.6	4.5	2.5	3	5	2	1.7	3.1	2.6	12.5					
51	2	0	12.52	2.0	3	0	2.7	1.3	3.6	2.1	5	9.9	2.8	5	1.4	1.9	2.2	6	7	2	1.5	3	2.3	6	9.9	5	2.9	1.5	4.8	2.4	7	1	3	0.6	1.6	3.2	2.5	4			
52	0	2.6	1.1	5.5	1.9	1	8.8	2	1.2	3.8	2.0	3	7	2.7	9	1.3	2.0	2.1	7	6	5	2.8	6	1.4	4	2.2	7	8	3	3	1.4	4.8	2.3	5	0	0	1.5	3.2	2.4	9	2
53	7.8	2.5	10.55	1.8	5.9	6	2.6	6	1.1	3.8	1.9	1	4	3	1.2	2.0	2.0	7	4	2	0	1.3	3	2.1	6	1	2.8	7	1.3	4.6	2.2	7	10.8	11.8	2.9	4	1.4	2.9	2.3	9	0
54	6	3	9.54	1.7	8	4	0	1.0	3.6	1.8	0	2	2.6	7	1.1	1.7	1.9	2	0	2.7	4	1.1	5.9	2.0	7	10.9	1	1.2	4.2	2.1	7	6	2.8	8	1.3	2.4	2.2	8	11.9		
55	4	2.4	8.51	1.6	6	2	2.5	4	9	3.2	1.7	6.8	0	1	1.0	1.3	1.8	5	0	9.8	2.6	8	1.0	5.4	1.9	2	6	2.7	5	1.1	3.5	2.0	6	5	4	2	1.2	1.6	2.1	7	7
56	1	1	7.46	1.5	4	7.9	2.4	8	2.5	1.6	3	5	8.7	2.5	9	5	1.7	2	7.8	5	2	9	4.5	1.8	3	0	3	2.6	9	1.0	2.6	1.9	3	1	2.7	5	1.1	6	2.0	4	6

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 13 6 23 } $\simeq$ 18° ARC 196° 35'.9						H. M. S. 13 10 7 } $\simeq$ 19° 197° 31'.8						H. M. S. 13 13 51 } $\simeq$ 20° 198° 27'.8						H. M. S. 13 17 36 } $\simeq$ 21° 199° 24'.0						H. M. S. 13 21 21 } $\simeq$ 22° 200° 20'.2						H. M. S. 13 25 6 } $\simeq$ 23° 201° 16'.6					
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3					
Lat.	m	f	v	z	x	m	f	v	z	x	m	f	v	z	x	m	f	v	z	x	m	f	v	z	x	m	f	v	z	x					
22	16.7	11.8	6 1	9.1	14.6	17.6	12.6	6 54	10.1	15.6	18.5	13.5	7 47	11.1	16.7	19.4	14.3	8 41	12.1	17.8	20.3	15.1	9 34	13.2	18.8	21.2	16.0	10 28	14.2	19.9					
23	6	5	5 33	8.8	5	5	3	6 26	9.8	6	4	2	7 18	10.8	6	3	0	8 12	11.9	7	2	14.8	9 5	12.9	8	1	15.7	9 59	13.9	9					
24	5	2	5 3	6	5	4	0	5 56	6	5	3	12.9	6 49	6	6	1	13.7	7 42	6	7	0	5	8 35	6	8	20.9	4	9 29	7	9					
25	4	10.9	4 33	3	4	3	11.7	5 26	3	5	1	6	6 19	3	6	0	4	7 12	3	7	19.9	2	8 5	3	7	8	1	8 59	4	8					
26	16.3	6	4 3	0	14.4	1	4	4 56	0	4	0	3	5 48	0	5	18.9	1	6 41	0	6	8	13.9	7 35	1	7	7	14.8	8 28	1	8					
27	1	3	3 32	7.7	3	0	1	4 25	8.7	15.4	17.9	0	5 17	9.7	16.5	8	12.8	6 10	10.7	17.6	7	6	7 3	11.8	18.7	5	5	7 57	12.8	19.8					
28	0	0	3 0	4	3	16.9	10.8	3 53	4	3	8	11.6	4 45	4	4	6	5	5 38	4	5	5	3	6 31	5	6	20.4	1	7 25	5	7					
29	15.9	9.7	2 28	1	2	8	5	3 21	1	3	6	3	4 13	1	4	5	2	5 6	1	5	19.4	0	5 59	2	6	3	13.8	6 52	2	7					
30	8	3	1 55	6.7	14.1	6	2	2 48	7.8	2	5	0	3 40	8.8	3	18.4	11.8	4 33	9.8	4	3	12.7	5 25	10.9	5	1	5	6 19	11.9	6					
31	6	0	1 22	4	1	5	9.8	2 14	4	15.2	17.4	10.7	3 6	5	3	3	5	3 59	5	4	1	3	4 51	6	5	0	1	5 44	6	6					
32	5	8.7	0 48	1	0	16.4	5	1 40	1	1	3	3	2 31	1	16.2	1	2	3 24	2	17.3	0	0	4 16	2	18.4	19.9	12.8	5 10	3	19.6					
33	15.4	3	0 13	5.7	13.9	2	2	1 4	6.7	0	1	0	1 56	7.8	2	0	10.8	2 48	8.8	3	18.9	11.6	3 41	9.9	4	7	4	4 34	10.9	5					
34	2	0	29 37	3	9	1	8.8	0 28	4	0	0	9.6	1 20	4	1	17.8	5	2 12	5	2	7	3	3 4	5	3	6	1	3 57	6	5					
35	1	7.6	29 0	4.9	8	0	5	29 51	0	14.9	16.8	3	0 43	0	0	7	1	1 35	1	2	6	10.9	2 27	1	3	4	11.7	3 20	2	4					
36	14.9	3	28 22	5	7	15.8	1	29 13	5.6	9	7	8.9	0 5	6.6	0	5	9.7	0 56	7.7	17.1	4	5	1 48	8.7	2	19.3	3	2 41	9.8	19.4					
37	8	6.9	27 44	1	7	7	7.7	28 35	2	8	5	5	29 26	2	15.9	4	3	0 17	3	1	3	1	1 9	3	18.2	1	0	2 1	4	3					
38	6	5	27 4	3.7	13.6	5	3	27 55	4.7	7	4	2	28 46	5.8	8	2	8.9	29 37	6.8	0	1	9.7	0 29	7.9	1	0	10.6	1 21	0	3					
39	5	2	26 24	2	6	3	0	27 14	3	6	2	7.8	28 5	3	8	1	5	28 56	4	0	17.9	3	29 47	5	1	18.8	2	0 39	8.5	2					
40	14.3	5.8	25 42	2.7	5	2	6.6	26 33	3.8	14.6	0	4	27 23	4.9	7	16.9	1	28 13	5.9	16.9	8	8.9	29 4	0	0	6	9.7	29 56	1	19.2					
41	2	4	25 0	2	4	0	2	25 50	3	5	15.9	6.9	26 39	4	6	7	7.7	27 30	4	9	6	5	28 20	6.5	17.9	4	3	29 12	7.6	1					
42	0	4.9	24 16	1.7	13.3	14.8	5.7	25 5	2.7	4	7	5	25 55	3.9	15.5	5	3	26 45	4.9	8	4	1	27 35	0	9	3	8.9	28 26	1	0					
43	13.8	5	23 31	1	2	7	3	24 20	2	4	5	1	25 9	4	5	4	6.9	25 58	4	7	2	7.6	26 48	5.5	8	1	4	27 39	6.6	0					
44	6	1	22 44	0.5	1	5	4.8	23 32	1.6	14.3	3	5.6	24 21	2.8	4	2	4	25 10	3.9	16.6	0	2	26 0	0	8	17.9	7.9	26 50	0	18.9					
45	4	3.6	21 56	29.9	0	3	4	22 44	0	2	2	2	23 32	2	4	0	5.9	24 21	3	6	16.8	6.7	25 10	4.4	7	7	5	26 0	5.5	8					
46	3	2	21 6	3	12.9	2	3.9	21 54	0.4	1	0	4.7	22 42	1.6	15.3	15.8	4	23 30	2.7	5	7	2	24 19	3.8	17.7	5	0	25 8	4.9	8					
47	1	2.7	20 14	28.7	8	0	4	21 2	29.7	0	14.8	2	21 49	0	2	6	4.9	22 37	1	4	5	5.8	23 26	2	6	3	6.5	24 15	3	7					
48	12.9	2	19 21	1	7	13.8	2.9	20 8	1	13.9	6	3.7	20 55	0.3	1	4	4	21 43	1.4	16.3	3	3	22 31	2.5	5	1	0	23 19	3.6	18.7					
49	7	1.7	18 27	27.4	6	6	4	19 13	28.4	8	4	2	20 0	29.6	0	2	3.9	20 47	0.7	2	1	4.7	21 34	1.8	4	16.9	5.5	22 22	2.9	6					
50	5	2	17 31	26.6	12.5	4	1.9	18 16	27.7	7	2	2.7	19 2	28.8	14.9	0	4	19 48	29.9	1	15.9	2	20 35	0	17.3	7	4.9	21 22	2	5					
51	3	0.6	16 32	25.8	4	2	3	17 17	26.9	6	13.9	1	18 2	0	8	14.8	2.8	18 48	1	0	7	3.6	19 34	0.2	2	4	3	20 20	1.4	4					
52	0	0	15 32	24.9	2	12.9	0.7	16 16	0	13.4	7	1.5	17 0	27.1	7	5	2	17 45	28.2	15.8	4	0	18 30	29.3	1	1	3.7	19 16	0.5	18.3					
53	11.8	29.4	14 29	23.9	0	7	1	15 12	25.0	3	5	0.9	15 56	26.1	5	3	1.6	16 40	27.2	7	2	2.4	17 25	28.3	0	15.9	1	18 10	29.5	2					
54	6	28.8	13 24	22.8	11.9	5	29.5	14 6	23.9	1	3	3	14 49	25.1	14.4	0	0	15 33	26.2	6	14.9	1.8	16 16	27.3	16.9	7	2.5	17 1	28.5	2					
55	4	2	12 16	21.7	7	2	28.9	12 58	22.8	0	0	29.7	13 40	24.0	2	13.8	0.4	14 23	25.1	5	6	1	15 6	26.2	8	4	1.8	15 49	27.4	1					
56	1	27.5	11 6	20.4	6	11.9	2	11 47	21.5	12.9	12.7	0	12 28	22.7	1	5	29.7	13 10	23.8	3	3	0.4	13 52	25.0	7	1	1	14 34	26.2	0					

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 13 28 52 } $\simeq$ 24° ARC 202° 13'.0					H. M. S. 13 32 38 } $\simeq$ 25° 203° 9'.6					H. M. S. 13 36 25 } $\simeq$ 26° 204° 6'.3					H. M. S. 13 40 13 } $\simeq$ 27° 205° 3'.2					H. M. S. 13 44 0 } $\simeq$ 28° 206° 0'.1					H. M. S. 13 47 49 } $\simeq$ 29° 206° 57'.2					
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	$\mu$	$\rho$	$\nu$	$\omega$	$\chi$	$\mu$	$\rho$	$\nu$	$\omega$	$\chi$	$\mu$	$\rho$	$\nu$	$\omega$	$\chi$	$\mu$	$\rho$	$\nu$	$\omega$	$\chi$	$\mu$	$\rho$	$\nu$	$\omega$	$\chi$	$\mu$	$\rho$	$\nu$	$\omega$	$\chi$
22	22.1	16.8	11 22	15.2	21.0	23.0	17.7	12 16	16.3	22.1	23.9	18.5	13 11	17.3	23.2	24.7	19.4	14 6	18.4	24.3	25.6	20.3	15 2	19.4	25.4	26.5	21.1	15 55	20.5	26.5
23	21.9	5 10 53	0	0	22.8	4 11 47	0	1	7	2 12 42	1	2	6	1 13 37	1	3	5	0 14 33	2	4	4 20.8	15 29	3	5						
24	8	2 10 23	14.7	20.9	7	1 11 18	15.8	1	6	17.9	12 12	16.8	1	5	18.8	13 7	17.9	2	4	19.6	14 3	18.9	4	3	5 14 59	0	5			
25	7 15.9	9 53	4	9	6 16.8	10 47	5	0	5	6 11 42	6	1	4	5 12 37	6	2	2	3 13 33	7	4	1	2 14 29	19.8	4						
26	6	6 9 22	2	9	4	5 10 17	2	0	23.3	3 11 11	3	1	2	2 12 6	4	2	1	0 13 2	4	3	0 19.9	13 58	5	4						
27	21.4	3 8 51	13.9	9	22.3	1 9 45	0	0	2	0 10 40	0	23.1	1	17.8	11 35	124.2	0	18.7	12 31	2 25.3	25.9	5 13 26	3 26.4							
28	3	0 8 19	6	8	2 15.8	9 13	14.7	21.9	1	16.7	10 8	15.7	1	23.9	5 11 3	16.8	2	24.8	4 11 58	17.9	3	7	2 12 54	0	4					
29	2 14.6	7 46	3 20.8	0	5 8 40	4	9	22.9	3 9 35	4	0	8	2 10 30	5	1	7	0 11 25	6	3	6 18.9	12 21	18.7	4							
30	0	3 7 12	0	8	21.9	2 8 7	1	9	8	0 9 1	1	0	7	16.8	9 56	2	1	5	17.7	10 51	3	3	4	5 11 47	4	4				
31	20.9	0 6 38	12.7	7	8 14.8	7 32	13.8	8	6	15.7	8 27	14.8	0	5	5 9 22	15.9	24.1	4	3	10 17	0 25.2	25.3	2 11 13	1	4					
32	7 13.6	6 3	3	7	6	5 6 57	4	8	5	3 7 51	5 22.9	23.4	1	8 46	6	1	24.3	0 9 41	16.7	2	1 17.8	10 37	17.8	26.4						
33	6	3 5 27	0	6	5	1 6 21	1 21.8	22.4	14.9	7 15	2	9	2	15.8	8 10	3	1	1	16.6	9 5	4	2	0	4 10 1	5	3				
34	4 12.9	4 50	11.7	20.6	21.3	13.8	5 44	12.8	7	2	6 6 38	13.9	9	1	4 7 33	0	0	0	2 8 28	1	2 24.8	1 9 23	2	3						
35	20.3	6 4 13	3	6	2	4 5 6	4	7	1	2 6 0	5	8	22.9	0 6 55	14.6	24.0	23.8	15.9	7 49	15.7	25.2	7 16.7	8 45	16.8	3					
36	1	2 3 34	10.9	5	0	0 4 27	0	7	21.9	13.8	5 21	1	8	8 14.6	6 16	2	0	6	5 7 10	3	1	5	3 8 5	5	3					
37	0 11.8	2 54	5	5	20.9	12.6	3 47	11.6	6	7	4 4 41	12.7	22.8	6	2	5 35	13.8	0	5	1 6 30	0	1	3 15.9	7 25	1 26.3					
38	19.8	4 2 13	1	4	7	2 3 6	2 21.6	6	0	4 0	3	7	4 13.8	4 54	4	0	3	14.7	5 48	14.6	1	2	5 6 43	15.7	3					
39	7	0 1 31	9.6	20.4	5 11.8	2 24	10.8	5	4	12.6	3 17	11.9	7	2	4 4 11	0 23.9	1	2	5 5	2 25.1	0	1	5 59	4	2					
40	5 10.6	0 48	2	4	4	4 1 40	4	5	2	2 2 33	5	7	1	0 3 27	12.6	9	22.9	13.8	4 20	13.8	0	23.8	14.6	5 15	0	2				
41	3	1 0 3	8.7	4	3 10.9	0 55	9.9	4	0	11.7	1 48	0	6	21.9	12.5	2 41	1	9	7	4 3 35	4	0	6	2 4 29	14.6	2				
42	1	9.7	29 17	2	3	1	5 0 9	4	4	20.8	3 1 1	10.5	22.6	7	1	1 54	11.6	9	5	12.9	2 48	12.9	0	4 13.7	3 41	1 26.2				
43	18.9	2 28 30	7.7	3	19.9	0 29 21	8.9	21.3	6	10.8	0 13	0	5	5 11.6	1 5	1	8	3	4 1 59	4 24.9	2	3	2 52	13.6	2					
44	7	8.7	27 41	1	20.2	7 9.5	28 32	4	3	4	3 29 23	9.5	5	3	1 0 15	10.6	23.8	1	11.9	1 8	11.9	9	0 12.8	2 1	1 1					
45	5	3 26 50	6.5	1	5	1 27 41	7.8	2	2	9.8	28 32	8.9	5	1	10.6	29 24	1	8	21.9	4 0 16	4	9	22.8	3 1 9	12.6	1				
46	3	7.8	25 58	0	1	3	8.6	26 48	2	2	0	3 27 39	3	4	20.8	1 28 30	9.5	7	7	10.9	29 22	10.8	8	6 11.8	0 14	0 1				
47	1	3 25 4	5.4	0	1	0 25 54	6.6	21.1	19.8	8.8	26 44	7.7	22.4	6	9.6	27 34	8.9	7	6	4 28 26	2	8	4	2 29 18	11 4	26.1				
48	17.9	6.8	24 8	4.7	19.9	18.9	7.5	24 57	5.9	1	6	3 25 47	1	4	4	1 26 37	3 23.6	4	9.9	27 28	9.6	24.8	2	10.7	28 19	10.8	0			
49	7	3 23 10	0	9	7	6.9	23 58	2	0	4	7.8	24 48	6.4	3	2	8.6	25 37	7.6	6	2	3 26 27	8.9	7	21.9	1 27 18	1	0			
50	5	5.7	22 10	3.3	8	4	4 22 58	4.5	0	2	2 23 46	5.7	3	0	0 24 35	6.9	5	20.9	8.7	25 25	2	7	7	9.5	26 14	9.4	0			
51	2	1 21 7	2.5	7	2	5.8	21 55	3.7	20.9	18.9	6.6	22 42	4.9	22.2	19.7	7.4	23 31	1	5	6	1 24 20	7.4	6	4	8.9	25 9	8.7	25.9		
52	0	4.5	20 2	1.6	19.6	17.9	2 20 49	2.8	9	7	0 21 36	1	1	4	6.8	22 24	5.3	23.4	3	7.5	23 12	6.6	24.6	1	3 24 0	7.9	9			
53	16.8	3.9	18 55	0.7	5	6	4.6	19 41	1.9	8	5	5.4	20 27	3.2	1	2	1 21 14	4.4	3	1	6.8	22 1	5.7	5	20.9	7.6	22 49	0	9	
54	5	2 17 45	29.7	4	3	3.9	18 30	0.9	7	2	4.7	19 16	2.2	0	0	5.4	20 1	3.4	3	19.8	1 20 48	4.7	5	6	6.9	21 35	6.0	8		
55	2	2.5	16 32	28.6	3	0	2 17 17	29.8	6	17.9	0 18 1	1.1	21.9	18.7	4.7	18 46	2.3	2	5	5.4	19 31	3.6	5	3	2 20 17	4.9	8			
56	15.9	1.8	15 17	27.4	2	16.7	2.5	16 0	28.6	4	5	3.3	16 43	29.9	8	3	0 17 27	1.1	1	1	4.7	18 12	2.4	4	0	5.4	18 56	3.7	8	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

40 UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 13 47 49 } $\approx$ 29° ARC 206° 57'.2						H. M. S. 13 51 38 } $\mu$ 0° 207° 54'.5					H. M. S. 13 55 27 } $\mu$ 1° 208° 51'.9					H. M. S. 13 59 18 } $\mu$ 2° 209° 49'.4					H. M. S. 14 3 8 } $\mu$ 3° 210° 47'.1					H. M. S. 14 7 0 } $\mu$ 4° 211° 44'.9					
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
Lat.	$\mu$	$\rho$	$\rho$	$\rho$	$\rho$	$\mu$	$\rho$	$\rho$	$\rho$	$\rho$	$\mu$	$\rho$	$\rho$	$\rho$	$\rho$	$\mu$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$	$\rho$		
22	26.5	21.1	15 58	20.5	26.5	27.4	22.0	16 54	21.6	27.6	28.3	22.8	17 51	22.7	28.7	29.2	23.7	18 48	23.8	29.8	0.1	24.6	19 46	24.9	0.9	1.0	25.4	20 44	25.9	2.0	
23	4	20.8	15 29	3	5	3	21.7	16 25	3	6	2	5	17 22	4	7	1	4	18 19	5	8	0	3	19 17	7	9	0.9	1	20 15	7	0	
24	3	5	14 59	0	5	2	4	15 56	1	6	1	2	16 52	2	7	0	1	17 50	3	8	29.8	0	18 48	4	9	7	24.8	19 46	5	0	
25	1	2	14 29	19.8	4	0	0	15 25	20.9	6	27.9	21.9	16 22	0	7	28.8	22.8	17 20	1	8	7	23.6	18 17	2	9	6	5	19 16	3	0	
26	0	19.9	13 58	5	4	26.9	20.7	14 54	6	6	8	6	15 51	21.7	7	7	4	16 49	22.9	8	6	3	17 47	0	9	5	2	18 45	1	0	
27	25.9	5	13 26	3	26.4	7	4	14 23	4	27.5	6	3	15 20	5	28.7	5	1	16 17	6	29.8	4	0	17 15	23.7	0.9	0.3	23.8	18 13	24.9	2.1	
28	7	2	12 54	0	4	6	1	13 51	1	5	5	20.9	14 47	2	7	4	21.8	15 45	3	8	29.3	22.6	16 43	5	9	2	5	17 41	6	1	
29	6	18.9	12 21	18.7	4	5	19.7	13 17	19.8	5	27.3	6	14 14	0	7	2	4	15 12	1	8	1	3	16 9	2	9	0	2	17 8	4	1	
30	4	5	11 47	4	4	26.3	4	12 44	6	5	2	2	13 40	20.7	7	1	1	14 38	21.8	8	0	21.9	15 35	0	9	29.9	22.8	16 34	1	1	
31	25.3	2	11 13	1	4	2	0	12 9	3	5	0	19.9	13 6	4	6	27.9	20.7	14 3	5	8	28.8	6	15	1	22.7	0.9	7	5	15 59	23.8	1
32	1	17.8	10 37	17.8	26.4	0	18.7	11 33	18.9	27.5	26.9	5	12 30	1	28.6	8	4	13 27	2	29.8	7	2	14 25	4	9	5	1	15 23	6	2.1	
33	0	4	10 1	5	3	25.9	3	10 57	6	5	7	1	11 53	19.8	6	6	0	12 50	20.9	8	5	20.8	13 48	1	9	4	21.7	14 46	3	1	
34	24.8	1	9 23	2	3	7	17.9	10 19	3	5	6	18.8	11 16	5	6	5	19.6	12 13	6	8	3	5	13 10	21.8	9	2	3	14 9	0	1	
35	7	16.7	8 45	16.8	3	5	5	9 41	0	5	4	4	10 37	1	6	3	2	11 34	3	8	2	1	12 32	5	1.0	0	20.9	13 30	22.7	1	
36	5	3	8 5	5	3	4	1	9 1	17.6	5	2	0	9 57	18.8	6	1	18.8	10 54	0	8	1	19.7	11 52	2	0	28.9	5	12 50	3	1	
37	3	15.9	7 25	1	26.3	3	16.7	8 20	2	27.4	1	17.6	9 16	4	28.6	26.9	4	10 13	19.6	29.8	27.9	3	11 10	20.8	0	7	1	12 8	0	2.2	
38	2	5	6 43	15.7	3	1	3	7 38	16.9	4	25.9	2	8 34	1	6	8	0	9 31	2	8	7	18.8	10 28	4	0	5	19.7	11 25	21.7	2	
39	0	1	5 59	4	2	24.9	15.9	6 54	5	4	7	16.7	7 50	17.7	6	6	17.6	8 47	18.9	8	5	4	9 44	1	0	3	3	10 41	4	2	
40	23.8	14.6	5 15	0	2	7	5	6 10	1	4	5	3	7 5	3	6	4	1	8 1	5	8	3	0	8 58	19.7	1.0	1	18.8	9 55	0	2	
41	6	2	4 29	14.6	2	5	0	5 23	15.7	4	3	15.8	6 19	16.9	6	2	16.7	7 15	1	8	1	17.5	8 11	3	0	27.9	4	9 8	20.6	2	
42	4	13.7	3 41	1	26.2	3	14.6	4 36	2	27.4	1	4	5 31	4	28.6	0	2	6 26	17.7	29.8	26.9	0	7 22	18.9	0	7	17.9	8 19	2	2.2	
43	2	3	2 52	13.6	2	1	1	3 46	14.7	4	24.9	14.9	4 41	15.9	6	25.8	15.7	5 36	2	8	7	16.5	6 32	5	0	5	4	7 29	19.8	2	
44	0	12.8	2 1	1	1	23.9	13.6	2 55	2	4	7	4	3 49	4	6	6	2	4 44	16.7	8	5	0	5 40	0	1.0	3	16.9	6 36	3	2	
45	22.8	3	1 9	12.6	1	7	1	2 2	13.7	3	5	13.9	2 56	14.9	5	3	14.7	3 50	2	8	3	15.5	4 46	17.5	0	1	3	5 42	18.8	2	
46	6	11.8	0 14	0	1	5	12.6	1 7	2	3	3	4	2 0	4	5	1	2	2 55	15.7	8	1	0	3 50	0	0	26.9	15.8	4 45	3	3	
47	4	2	29 18	11.4	26.1	3	0	0 10	12.6	27.3	1	12.8	1 3	13.8	28.5	24.9	13.6	1 56	1	29.8	25.8	14.4	2 51	16.4	0	7	2	3 46	17.8	2.3	
48	2	10.7	28 19	10.8	0	0	11.5	29 11	0	3	23.9	3	0 3	2	5	7	1	0 56	14.5	8	6	13.9	1 50	15.8	1.0	4	14.7	2 45	2	3	
49	21.9	1	27 18	1	0	22.8	10.9	28 9	11.4	3	7	11.7	29 1	12.6	5	5	12.5	29 53	13.9	8	3	3	0 47	2	0	1	1	1 41	16.6	3	
50	7	9.5	26 14	9.4	0	5	3	27 5	10.7	2	4	1	27 56	11.9	5	2	11.9	28 48	2	8	0	12.7	29 41	14.5	0	25.9	13.5	0 34	15.9	3	
51	4	8.9	25 9	8.7	25.9	2	9.6	25 59	0	2	1	10.5	26 49	2	5	23.9	3	27 40	12.5	8	24.7	1	28 32	13.8	1	6	12.9	29 24	2	3	
52	1	3	24 0	7.9	9	21.9	0	24 49	9.2	27.2	22.8	9.9	25 39	10.4	28.5	6	10.6	26 29	11.7	29.8	4	11.4	27 20	0	1.1	3	2	28 12	14.4	2.3	
53	20.9	7.6	22 49	0	9	6	8.3	23 37	8.3	2	5	2	24 76	9.5	4	3	9.9	25 16	10.8	8	2	10.7	26 6	12.2	1	0	11.5	26 56	13.6	4	
54	6	6.9	21 35	6.0	8	4	7.6	22 22	7.3	1	2	8.5	23 10	8.5	4	0	2	23 58	9.9	8	23.9	0	24 48	11.3	1	24.7	10.7	25 37	12.7	4	
55	3	2	20 17	4.9	8	1	6.9	21 3	6.2	1	21.9	7.7	21 50	7.5	4	22.7	8.4	22 38	8.9	8	6	9.2	23 26	10.3	1	4	9.9	24 15	11.7	4	
56	0	5.4	18 56	3.7	8	20.8	1	19 42	5.0	1	5	6.9	20 27	6.4	4	3	7.6	21 14	7.8	8	2	8.4	22 1	9.2	1	0	1	22 48	10.6	4	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 14 10 52 } m 5° ARC 212° 42'.9 } 5°					H. M. S. 14 14 44 } m 6° 213° 41'.0 } 6°					H. M. S. 14 18 37 } m 7° 214° 39'.4 } 7°					H. M. S. 14 22 31 } m 8° 215° 37'.8 } 8°					H. M. S. 14 26 26 } m 9° 216° 36'.5 } 9°					H. M. S. 14 30 21 } m 10° 217° 35'.3 } 10°				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
		f	f	∅	∞	∅	f	f	∅	∞	∅	f	f	∅	∞	∅	f	f	∅	∞	∅	f	f	∅	∞	∅	f	∅	∅	∞	∅
22	1.9	26.3	21.43	27.1	3.1	2.8	27.2	22.42	28.2	4.3	3.7	28.1	23.41	29.3	5.4	4.6	29.0	24.41	0.5	6.5	5.5	29.9	25.42	1.6	7.6	6.4	0.8	26.43	2.8	8.5	
23	8	0 21 14	26.9	2	7	26.9	22 13	0	3	6	27.8	23 13	2	4	5	28.7	24 13	3	5	4	6	25 13	4	7	3	5	26 14	6	8		
24	6	25.7	20 45	7	2	5	6 21 44	27.8	3	4	5	22 43	0	4	3	3	23 43	1	6	2	2	24 44	2	7	1	1	25 45	4	8		
25	5	4	20 14	5	2	4	3	21 14	6	3	3	1	22 13	28.8	4	2	0	23 14	29.9	6	1	28.9	24 14	0	7	0	29.8	25 16	2	9	
26	1.4	0	19 43	2	2	2	25.9	20 43	4	3	1	26.8	21 43	6	5	0	27.7	22 43	7	6	4.9	6	23 44	0.8	7.7	5.8	5	24 46	0	9	
27	2	24.7	19 12	0	3.2	1	6	20 11	2	4.3	0	5	21 11	3	5.5	3.9	4	22 12	5	6.6	8	3	23 13	6	8	7	1	24 15	1.8	9	
28	1	4	18 40	25.8	2	1.9	3	19 39	26.9	3	2.8	1	20 39	1	5	7	0	21 39	3	7	6	27.9	22 41	4	8	5	28.8	23 43	6	9.0	
29	0.9	0	18 7	5	2	8	24.9	19 6	7	4	7	25.8	20 6	27.9	5	6	26.7	21 7	0	7	5	6	22 8	2	8	4	5	23 10	4	0	
30	7	23.7	17 33	3	2	6	6	18 32	4	4	5	4	19 32	6	5	4	3	20 33	28.8	7	4.3	2	21 34	0	7.9	2	1	22 36	2	0	
31	6	3	16 58	0	2	5	2	17 57	2	4	4	1	18 57	4	6	3	0	19 58	6	6.7	1	26.9	20 59	29.8	9	0	27.7	22 1	0	1	
32	4	0	16 22	24.7	3.3	1.3	23.8	17 22	25.9	4.4	2	24.7	18 22	1	5.6	1	25.6	19 22	3	8	0	5	20 23	5	9	4.9	4	21 25	0.7	1	
33	3	22.6	15 45	4	3	1	5	16 45	6	4	0	3	17 45	26.8	6	2.9	2	18 45	0	8	3.8	1	19 46	3	8.0	7	0	20 48	5	9.1	
34	1	2	15 7	1	3	0	1	16 7	3	5	1.9	23.9	17 7	5	6	8	24.8	18 7	27.8	8	6	25.7	19 8	0	0	5	26.6	20 10	2	2	
35	29.9	21.8	14 28	23.8	3	0.8	22.7	15 28	0	5	7	5	16 27	3	7	6	4	17 28	5	6.8	5	3	18 29	28.7	0	4	2	19 31	0	2	
36	8	4	13 48	5	3	6	3	14 47	24.7	5	6	1	15 47	0	7	4	0	16 47	2	9	3	24.9	17 49	4	1	2	25.8	18 50	29.7	2	
37	6	0	13 6	2	3.3	4	21.8	14 6	4	4.5	4	22.7	15 5	25.7	5.7	2	23.6	16 5	0	9	1	5	17 7	2	1	0	4	18 9	5	3	
38	4	20.6	12 23	22.9	4	3	4	13 22	1	5	2	3	14 22	4	7	0	2	15 22	26.7	9	2.9	0	16 23	27.9	8.1	3.8	24.9	17 25	2	9.3	
39	2	1	11 39	6	4	1	0	12 38	23.7	6	0	21.8	13 37	1	8	1.8	22.7	14 37	3	7.0	7	23.6	15 38	6	2	6	5	16 40	28.9	4	
40	0	19.7	10 53	2	4	29.9	20.5	11 52	4	6	0.8	4	12 51	24.7	8	6	3	13 51	0	0	5	1	14 52	3	2	4	0	15 53	6	4	
41	28.8	2	10 6	21.8	4	7	1	11 4	0	6	6	20.9	12 3	3	8	4	21.8	13 3	25.6	0	3	22.6	14 4	0	3	2	23.5	15 5	3	5	
42	6	18.7	9 17	4	3.4	5	19.6	10 15	22.6	4.6	4	4	11 14	23.9	5.9	2	3	12 14	2	1	1	1	13 13	26.6	8.3	2.9	0	14 15	27.9	9.5	
43	4	2	8 26	0	4	3	1	9 24	2	6	2	19.9	10 23	5	9	0	20.8	11 22	24.8	1	1.8	21.6	12 22	2	4	7	22.5	13 22	5	6	
44	2	17.7	7 33	20.6	5	0	18.5	8 31	21.8	7	0	4	9 29	1	9	0.7	2	10 28	4	7.2	6	1	11 28	25.8	4	5	21.9	12 28	1	6	
45	0	2	6 38	1	5	28.8	0	7 35	4	7	29.8	18.8	8 33	22.7	9	5	19.7	9 32	0	2	4	20.5	10 31	4	5	2	4	11 31	26.7	7	
46	27.8	16.6	5 41	19.6	5	6	17.4	6 38	20.9	4.7	5	3	7 35	2	6.0	3	1	8 33	23.5	3	2	0	9 32	0	8.5	0	20.8	10 32	3	9.7	
47	5	1	4 41	1	3.5	4	16.9	5 38	4	7	3	17.7	6 35	21.7	0	0	18.5	7 32	0	3	0	19.4	8 31	24.5	5	1.8	2	9 31	25.8	8	
48	3	15.5	3 39	18.5	6	1	3	4 36	19.8	7	0	1	5 32	2	0	29.8	17.9	6 29	22.5	7.3	0.7	18.8	7 27	0	6	6	19.6	8 26	3	8	
49	0	14.9	2 35	17.9	6	27.9	15.7	3 30	2	8	28.7	16.5	4 26	20.6	1	6	3	5 23	0	4	4	2	6 20	23.4	6	3	0	7 19	24.8	9	
50	26.7	3	1 28	2	6	6	1	2 22	18.6	4.8	4	15.9	3 18	0	1	3	16.7	4 14	21.4	4	1	17.5	5 11	22.8	8.7	0	18.4	6 8	2	10.0	
51	4	13.6	0 18	16.5	6	3	14.4	1 11	17.9	8	1	2	2 6	19.4	6.1	0	0	3 1	20.8	4	29.8	16.9	3 58	2	7	0.7	17.7	4 55	23.6	0	
52	1	12.9	29 4	15.8	3.6	26.9	13.7	29 57	2	9	27.8	14.5	0 51	18.7	2	28.6	15.3	1 46	1	7.5	5	2	24 1	21.5	8	5	0	3 37	22.9	1	
53	25.8	2	27 48	0	7	6	0	28 40	16.4	9	6	13.8	29 33	17.9	2	3	14.6	0 26	19.3	6	2	15.4	1 21	20.7	9	0	16.2	2 16	2	2	
54	5	11.5	26 28	14.1	7	3	12.3	27 19	15.5	5.0	3	0	28 11	0	3	0	13.8	29 3	18.4	7	28.9	14.6	29 57	19.9	9.0	29.7	15.4	0 51	21.4	10.3	
55	2	10.7	25 4	13.1	7	0	11.5	25 51	14.5	1	26.9	12.3	26 45	16.0	4	27.7	0	27 36	17.5	7	5	13.8	28 28	0	0	3	14 6	21 20.5	4		
56	24.8	9.9	23 36	12.0	7	25.6	10.7	24 25	13.4	1	5	11.5	25 15	14.9	5	3	12.2	26 5	16.5	8	1	0	26 56	18.0	1	28.9	13.8	27 48	19.8	5	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H.	H. M. S. } m 10°					H. M. S. } m 11°					H. M. S. } m 12°					H. M. S. } m 13°					H. M. S. } m 14°					H. M. S. } m 15°								
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2
22	6.4	0.8	26.43	2.8	8.8	7.3	1.7	27.44	3.9	9.9	8.2	2.6	28.46	5.1	11.0	9.1	3.5	29.49	6.3	12.2	10.1	4.4	0.52	7.4	13.3	11.0	5.3	1.56	8.6	14.5				
23	3	5	26.14	6	8	2	4	27.16	7	9	1	3	28.18	4.9	1	0	2	29.21	1	2	9.9	1	0.25	3	4	10.8	0	1.29	5	5				
24	1	1	25.45	4	8	0	0	26.47	6	10.0	0	1	27.50	8	1	8.9	2	28.53	5.9	3	8	3	8.29	5.6	1	4	7	4.7	1	4	6			
25	0	29.8	25.16	2	9	6.9	0.7	26.18	4	0	7.8	6	27.20	6	1	7	5	28.24	8	3	6	4	29.27	0	4	5	4	0.32	2	6				
26	5.8	5	24.46	0	9	7	4	25.48	2	0	7	3	26.50	4	2	6	2	27.54	6	3	5	1	28.57	6.8	5	4	0	0.2	1	7				
27	7	1	24.15	1.8	9	6	0	25.17	0	1	5	0	26.19	2	11.2	4	1	27.23	5	12.4	9.3	2	28.27	7	13.5	2	3	29.32	7.9	14.7				
28	5	28.8	23.43	6	9.0	4	29.7	24.45	2.8	1	3	6	25.48	0	3	2	5	26.51	3	4	1	4	27.55	5	6	0	3	29.0	7	8				
29	4	5	23.10	4	0	3	4	24.12	6	10.1	2	3	25.15	3.8	3	1	2	26.18	1	5	0	1	27.23	3	6	9.9	0	28.28	6	8				
30	2	1	22.36	2	0	1	0	23.38	4	2	0	29.9	24.41	6	4	7.9	0	25.45	4.9	5	8.8	1	26.49	1	7	7	2	27.55	4	9				
31	0	27.7	22.1	0	1	5.9	28.6	23.3	2	2	6.8	5	24.6	4	4	7	5	25.10	7	12.6	6	4	26.15	5.9	13.7	5	3	27.20	2	9				
32	4.9	4	21.25	0.7	1	8	3	22.27	0	3	7	2	23.31	2	11.4	6	1	24.35	5	6	5	0	25.39	7	8	4	1	26.45	0	15.0				
33	7	0	20.48	5	9.1	6	27.9	21.51	1.7	3	5	28.8	22.54	0	5	4	29.7	23.58	3	7	3	0	24.5	3	5	8	2	5	26.9	6.8	0			
34	5	26.6	20.10	2	2	4	5	21.13	5	10.3	3	4	22.16	2.8	5	2	3	23.20	0	7	1	2	24.25	3	9	0	1	25.31	6	1				
35	4	2	19.31	0	2	2	1	20.34	2	4	1	0	21.37	5	6	0	28.9	22.41	3.8	12.8	7.9	29.8	23.46	1	14.0	8.8	0	7	24.52	4	1			
36	2	25.8	18.50	29.7	2	1	26.7	19.53	0	4	5.9	27.6	20.56	3	11.6	6.8	5	22.1	6	8	7	4	23.5	4.9	0	6	3	24.11	2	2				
37	0	4	18.9	5	3	4.9	3	19.11	0.7	5	7	2	20.15	0	6	6	1	21.19	3	9	5	0	22.23	6	1	4	29.8	23.29	0	15.3				
38	3.8	24.9	17.25	2	9.3	7	25.8	18.28	4	5	5	26.7	19.31	1.8	7	4	27.6	20.35	0	9	3	28.5	21.40	4	1	2	4	22.46	5.7	3				
39	6	5	16.40	28.9	4	5	4	17.43	2	10.6	3	3	18.46	5	7	2	2	19.50	2.8	13.0	1	1	20.55	1	2	0	28.9	22.0	5	4				
40	4	0	15.53	6	4	3	24.9	16.56	29.9	6	1	25.8	17.59	2	11.8	0	26.7	19.3	5	0	6.9	27.6	20.8	3.9	14.3	7.8	4	21.13	2	5				
41	2	23.5	15.5	3	5	0	4	16.7	6	7	4.9	3	17.10	0.9	8	5.8	2	18.14	2	1	7	1	19.19	6	4	6	27.9	20.24	4.9	6				
42	2.9	0	14.15	27.9	9.5	3.8	23.9	15.17	3	7	7	24.8	16.20	6	9	6	25.6	17.23	1.9	2	5	26.5	18.28	3	4	4	4	19.34	6	15.6				
43	7	22.5	13.22	5	6	6	4	14.24	28.9	10.8	5	2	15.27	3	9	4	1	16.30	6	13.3	3	0	17.35	0	5	1	26.9	18.40	3	7				
44	5	21.9	12.28	1	6	4	22.8	13.29	5	8	2	23.7	14.32	0	12.0	1	24.6	15.35	3	4	0	25.5	16.39	2.7	5	6.9	4	17.45	0	8				
45	2	4	11.31	26.7	7	1	3	12.32	1	9	0	1	13.35	29.6	1	4.9	0	14.38	0	4	5.8	24.9	15.42	4	14.6	6	25.8	16.47	3.7	9				
46	0	20.8	10.32	3	9.7	2.9	21.7	11.33	27.7	9	3.8	22.6	12.35	2	2	7	23.4	13.37	0.6	5	6	3	14.41	0	7	4	2	15.46	4	16.0				
47	1.8	2	9.31	25.8	8	7	1	10.31	3	11.0	6	0	11.32	28.8	3	4	22.8	12.34	2	13.5	3	23.7	13.38	1.6	8	2	24.6	14.42	0	1				
48	6	19.6	8.26	3	8	4	20.5	9.26	26.8	1	3	21.4	10.27	3	12.4	2	2	11.29	29.7	6	0	1	12.32	2	9	5.9	0	13.35	2.6	2				
49	3	0	7.19	24.8	9	1	19.9	8.18	3	2	0	20.7	9.19	27.8	5	3.9	21.6	10.20	2	7	4.7	22.5	11.22	0.7	15.0	6	23.3	12.25	2	3				
50	0	18.4	6.8	2	10.0	1.8	2	7.25.7	3	2.7	0	8.7	2	5	6	20.9	9.7	28.7	8	4	21.8	10.9	2	1	3	22.6	11.12	1.7	16.4					
51	0.7	17.7	4.55	23.6	0	5	18.5	5.52	1	4	4	19.4	6.51	26.6	6	2	2	7.51	1	14.0	1	1	8.52	29.6	3	0	21.9	9.54	2	5				
52	3	0	3.37	22.9	1	2	17.8	4.34	24.5	11.5	1	18.7	5.32	0	12.7	2.9	19.5	6.31	27.5	1	3.8	20.4	7.32	0	4	4.6	2	8.33	0.6	7				
53	0	16.2	2.16	2	2	0.8	0	3.12	23.8	5	1.8	17.9	4.9	25.3	8	6	18.7	5.7	26.8	2	4	19.6	6.7	28.4	15.5	3	20.4	7.7	0	8				
54	29.7	15.4	0.51	21.4	10.3	5	16.2	1.46	0	6	4	0	2.42	24.5	9	3	17.9	3.39	0	3	1	18.8	4.37	27.7	6	0	19.5	5.36	29.3	17.0				
55	3	14.6	29.21	20.5	4	2	15.4	0.15	22.1	7	0	16.2	1.10	23.6	13.1	1.9	0	2.6	25.2	4	2.7	17.9	3.3	26.9	7	3.6	18.7	4.1	28.5	1				
56	28.9	13.8	27.48	19.5	5	29.8	14.5	28.40	21.1	9	0.6	15.3	29.34	22.6	3	5	16.1	0.28	24.2	5	3	0	1.24	25.9	9	1	17.8	2.20	27.6	3				

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 14 54 7 } m ARC 223° 31'.8 } 16°					H. M. S. 14 58 7 } m 17° 224° 31'.9 }					H. M. S. 15 2 8 } m 18° 225° 32'.1 }					H. M. S. 15 6 10 } m 19° 226° 32'.5 }					H. M. S. 15 10 12 } m 20° 227° 33'.1 }					H. M. S. 15 14 16 } m 21° 228° 33'.9 }									
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
		f	♋	♌	♍	♎	f	♋	♌	♍	♎	f	♋	♌	♍	♎	f	♋	♌	♍	♎	f	♋	♌	♍	♎	f	♋	♌	♍	♎	f	♋	♌	♍	♎
22	11.9	6.3	3 1	9.8	15.6	12.8	7.2	4 6	11.0	16.7	13.7	8.1	5 11	12.3	17.9	14.6	9.1	6 17	13.5	19.0	15.5	10.0	7 24	14.7	20.2	16.5	11.0	8 32	16.0	21.3						
23	7	0	233	7	7	6	6.9	3 39	10.9	8	6	7.8	4 45	1	9	5	8.8	5 51	4	1	4	9.7	6 58	6	2	3	10.7	8	6	15.9	4					
24	6	5.6	2 5	6	7	5	6	3 11	8	8	4	5	4 17	0	18.0	3	5	5 24	3	1	2	4	6 31	5	3	2	4	7 39	8	4						
25	4	3	1 37	4	8	3	2	2 42	7	9	3	2	3 49	11.9	1	2	1	4 56	1	2	1	1	6 3	4	3	0	0	7 12	7	5						
26	11.3	0	1 7	9.3	15.8	2	5.9	2 13	5	9	1	6.8	3 20	8	1	0	7.8	4 27	0	3	14.9	8.7	5 35	14.3	20.4	15.9	9.7	6 43	6	6						
27	1	4.6	0 37	1	9	0	6	1 43	10.4	17.0	12.9	5	2 50	6	2	13.9	4	3 57	12.9	19.3	8	4	5 5	2	5	7	4	6 14	5	21.6						
28	0	3	0 6	0	9	11.9	2	1 12	2	1	8	1	2 19	5	2	7	1	3 27	8	4	6	0	4 35	1	6	5	0	5 44	15.4	7						
29	10.8	3.9	29 34	8.8	16.0	7	4.9	0 40	1	1	6	5.8	1 47	11.4	18.3	5	6.7	2 55	7	5	4	7.7	4 4	13.9	6	4	8.7	5 13	3	8						
30	6	6	29 0	7	0	5	5	0 7	0	2	4	4	1 14	2	4	4	4	2 23	5	5	3	3	3 31	8	20.7	2	3	4 41	1	9						
31	5	2	28 26	5	1	4	1	29 33	9.8	2	3	1	0 41	1	4	2	0	1 49	12.4	6	1	0	2 58	7	8	0	7.9	4 8	0	9						
32	3	2.8	27 51	3	1	2	3.8	28 58	6	17.3	1	4.7	0 6	10.9	5	0	5.6	1 14	2	19.7	13.9	6.6	2 23	6	9	14.8	5	3 34	14.9	22.0						
33	1	4	27 15	1	2	0	4	28 22	4	4	11.9	3	29 30	8	6	12.8	2	0 39	1	7	7	2	1 48	13.4	9	7	1	2 58	8	1						
34	9.9	0	26 37	7.9	16.3	10.8	0	27 44	3	5	7	3.9	28 52	6	18.6	6	4.8	0 1	11.9	8	6	5.8	1 11	3	21.0	5	6.7	2 21	6	2						
35	7	1.6	25 58	7	3	6	2.6	27 5	1	5	5	5	28 14	4	7	4	4	29 23	8	9	4	4	0 33	1	1	3	3	1 43	5	3						
36	5	2	25 18	5	4	4	1	26 25	8.9	6	3	1	27 34	2	7	2	0	28 42	6	20.0	2	4.9	29 53	12.9	2	1	5.9	1 4	14.3	4						
37	3	0.8	24 36	3	5	2	1.7	25 44	7	17.7	1	2.6	26 52	0	8	0	3.6	28 1	4	1	0	5	29 11	8	3	13.9	4	0 23	2	22.5						
38	1	3	23 52	1	6	0	2	25 0	4	8	10.9	2	26 8	9.8	9	11.8	1	27 17	2	2	12.8	0	28 28	6	4	7	0	29 40	0	6						
39	8.9	29.8	23 7	6.8	16.6	9.8	0.8	24 15	2	8	7	1.7	25 23	6	19.0	6	2.6	26 32	0	3	5	3.6	27 43	4	21.5	5	4.5	28 55	13.8	7						
40	7	4	22 20	6	7	6	3	23 28	0	9	5	2	24 36	4	1	4	1	25 46	10.8	4	3	1	26 56	2	6	2	0	28 8	6	8						
41	5	28.9	21 31	3	8	4	29.8	22 39	7.7	18.0	3	0.7	23 47	1	2	2	1.6	24 57	5	20.5	1	2.6	26 7	0	7	0	3.5	27 19	4	9						
42	3	4	20 40	0	9	2	3	21 47	5	1	1	2	22 56	8.9	3	0	1	24 6	3	6	11.9	0	25 16	11.8	8	12.8	0	26 28	2	23.0						
43	0	27.8	19 47	5.7	17.0	8.9	28.7	20 54	2	2	9.8	29.7	22 2	7	4	10.7	0.6	23 12	1	7	6	1.5	24 22	6	9	5	2.4	25 34	0	2						
44	7.8	3	18 51	4	1	7	2	19 58	6.9	3	6	1	21 6	4	19.5	5	0	22 16	9.9	8	4	0.9	23 26	3	22.1	3	1.8	24 38	12.8	3						
45	5	26.7	17 53	2	1	4	27.6	19 0	7	4	3	28.5	20 8	1	6	2	29.4	21 17	6	21.0	1	3	22 27	1	2	0	3	23 39	5	5						
46	2	1	16 51	4.9	2	1	0	17 58	4	18.5	0	27.9	19 6	7.8	7	9.9	28.8	20 15	3	1	10.9	29.7	21 25	10.8	4	11.7	0.7	22 36	3	23.6						
47	0	25.5	15 47	5	3	7.9	26.4	16 54	1	6	8.8	3	18 1	5	9	7	2	19 10	0	2	6	1	20 20	5	5	4	0	21 31	0	7						
48	6.8	24.9	14 40	1	17.5	6	25.8	15 46	5.7	7	5	26.7	16 53	1	20.0	4	27.6	18 1	8.7	3	3	28.5	19 11	2	22.6	1	29.4	20 22	11.7	8						
49	5	2	13 30	3.7	6	3	1	14 35	3	9	2	0	15 42	6.7	2	1	26.9	16 50	3	21.5	0	27.8	17 59	9.9	7	10.8	28.7	19 9	4	24.0						
50	2	23.5	12 16	2	7	0	24.4	13 20	4.8	19.0	7.9	25.3	14 26	3	3	8.8	2	15 34	7.9	6	9.7	1	16 42	5	9	5	0	17 52	1	2						
51	5.8	22.8	10 57	2.7	8	6.6	23.7	12 2	3	2	6	24.6	13 7	5.9	5	5	25.5	14 14	5	8	4	26.4	15 22	1	23.1	2	27.3	16 31	10.7	4						
52	5	0	9 35	2	18.0	3	22.9	10 39	3.8	4	3	23.8	11 43	4	7	1	24.7	12 49	0	22.0	0	25.6	13 56	8.7	3	9.9	26.5	15 5	3	6						
53	2	21.2	8 8	1.6	1	0	1	9 11	2	5	6.9	0	10 15	4.9	9	7.8	23.9	11 19	6.5	1	8.6	24.7	12 26	2	4	5	25.6	13 33	9.9	8						
54	4.8	20.4	6 37	0.9	3	5.7	21.3	7 38	2.6	7	5	22.1	8 41	3	21.0	4	0	9 44	5.9	3	2	23.8	10 50	7.7	6	1	24.7	11 56	4	25.0						
55	4	19.5	5 0	2	4	3	20.4	6 0	1.9	8	1	21.2	7 1	3.6	1	0	22.1	8 4	3	5	7.8	22.9	9 8	1	8	8.7	23.8	10 13	8.9	2						
56	0	18.6	3 18	29.3	6	4.9	19.4	4 17	1	20.0	5.6	20.2	5 16	2.8	3	6	21.1	6 17	4.6	7	4	21.9	7 20	6.4	24.0	2	22.8	8 24	3	4						

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H.	H. M. S. } $\cap$ 21°					H. M. S. } $\cap$ 22°					H. M. S. } $\cap$ 23°					H. M. S. } $\cap$ 24°					H. M. S. } $\cap$ 25°					H. M. S. } $\cap$ 26°								
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2
22	16.5	11.0	8 32	16.0	21.3	17.4	12.0	9 40	17.2	22.5	18.3	12.9	10 49	18.4	23.6	19.3	13.9	11 59	19.7	24.7	20.2	14.9	13 9	20.9	25.9	21.1	15.9	14 19	22.2	27.0				
23	3	10.7	8 6	15.9	4	3	11.6	9 15	1	5	2	6	10 24	4	7	1	6	11 33	6	8	0	6	12 44	9	26.0	0	6	13 55	2	1				
24	2	4	7 39	8	4	1	3	8 48	0	6	0	3	9 58	3	7	0	3	11 8	6	9	19.9	3	12 18	8	0	20.8	2	13 30	1	2				
25	0	0	7 12	7	5	16.9	0	8 21	16.9	7	17.9	0	9 31	2	8	18.8	12.9	10 41	5	25.0	7	13.9	11 52	8	1	7	14.9	13 4	1	3				
26	15.9	9.7	6 43	6	6	8	10.7	7 53	8	22.7	7	11.6	9 3	1	9	6	6	10 13	4	0	6	6	11 25	7	2	5	6	12 37	0	27.4				
27	7	4	6 14	5	21.6	6	3	7 24	7	8	5	3	8 34	0	24.0	5	3	9 45	19.3	1	4	2	10 57	20.6	26.3	3	2	12 10	21.9	5				
28	5	0	5 44	15.4	7	5	0	6 54	6	9	4	10.9	8 5	17.9	0	3	11.9	9 16	2	2	2	12.9	10 28	6	4	2	13.9	11 41	9	5				
29	4	8.7	5 13	3	8	3	9.6	6 23	5	23.0	2	6	7 34	9	1	1	6	8 46	2	25.3	1	5	9 58	5	5	0	5	11 12	8	6				
30	2	3	4 41	1	9	1	2	5 51	16.4	0	0	2	7 3	8	2	0	2	8 15	1	4	18.9	2	9 28	4	6	19.8	2	10 41	8	27.7				
31	0	7.9	4 8	0	9	15.9	8.9	5 19	3	1	16.9	9.8	6 30	7	24.3	17.8	10.8	7 42	0	5	7	11.8	8 56	3	26.7	6	12.8	10 10	7	8				
32	14.8	5	3 34	14.9	22.0	8	5	4 45	2	2	7	5	5 56	6	4	6	4	7 9	18.9	6	5	4	8 23	20.3	8	5	4	9 37	21.6	9				
33	7	1	2 58	8	1	6	1	4 9	1	23.3	5	1	5 21	17.5	5	4	0	6 35	8	25.7	3	0	7 49	2	9	3	0	9 3	5	28.0				
34	5	6.7	2 21	6	2	4	7.7	3 33	0	4	3	8.7	4 45	3	6	2	9.6	5 59	7	8	2	10.6	7 13	1	27.0	1	11.6	8 28	5	2				
35	3	3	1 43	5	3	2	3	2 55	15.8	5	1	2	4 8	2	24.7	0	2	5 21	6	9	0	2	6 36	0	1	18.9	2	7 52	4	3				
36	1	5.9	1 4	14.3	4	0	6.8	2 16	7	6	15.9	7.8	3 29	1	8	16.8	8.8	4 43	5	26.0	17.8	9.8	5 57	19.9	2	7	10.8	7 14	21.3	4				
37	13.9	4	0 23	2	22.5	14.8	4	1 35	6	23.7	7	4	2 48	0	9	6	3	4 2	18.4	1	6	3	5 17	8	3	5	3	6 34	2	28.5				
38	7	0	29 40	0	6	6	5.9	0 52	4	8	5	6.9	2 5	16.8	25.0	4	7.8	3 20	2	2	3	8.8	4 35	7	27.4	3	9.8	5 52	1	6				
39	5	4.5	28 55	13.8	7	4	4	0 7	2	9	3	4	1 21	7	1	2	4	2 35	1	3	1	4	3 51	6	5	0	4	5 8	0	8				
40	2	0	28 8	6	8	1	0	29 20	1	24.0	0	5.9	0 34	5	2	0	6.9	1 49	0	26.5	16.9	7.9	3 5	19.4	7	17.8	8.9	4 22	20.9	9				
41	0	3.5	27 19	4	9	13.9	4.5	28 31	14.9	1	14.8	4	29 45	3	4	15.7	4	1 0	17.8	6	6	4	2 17	3	8	6	3	3 34	8	29.0				
42	12.8	0	26 28	2	23.0	7	3.9	27 40	7	3	6	4.9	28 54	2	25.5	5	5.9	0 10	7	7	4	6.8	1 26	1	28.0	3	7.8	2 43	6	2				
43	5	2.4	25 34	0	2	4	4	26 47	5	4	3	3	28 1	0	7	3	3	29 16	5	9	1	3	0 33	0	1	0	3	1 51	5	3				
44	3	1.8	24 38	12.8	3	2	2.8	25 51	3	24.6	1	3.8	27 5	15.8	8	0	4.7	28 20	3	27.0	15.9	5.7	29 37	18.8	3	16.8	6.7	0 55	20.4	5				
45	0	3	23 39	5	5	12.9	2	24 52	0	7	13.8	2	26 6	6	9	14.7	1	27 21	1	2	6	1	28 38	6	4	5	1	29 56	2	6				
46	11.7	0.7	22 36	3	23.6	6	1.6	23 49	13.8	8	5	2.6	25 3	3	26.0	4	3.5	26 19	16.9	3	3	4.5	27 35	5	28.5	2	5.5	28 54	1	8				
47	4	0	21 31	0	7	3	0	22 44	6	9	2	1.9	23 58	1	2	1	2.9	25 13	7	4	0	3.8	26 30	3	7	15.9	4.8	27 48	19.9	8				
48	1	29.4	20 22	11.7	8	0	0.3	21 35	3	25.1	12.9	3	22 48	14.8	4	13.8	2	24 3	5	5	14.7	2	25 20	1	9	6	1	26 38	7	0.2				
49	10.8	28.7	19 9	4	24.0	11.7	29.6	20 21	1	2	6	0.6	21 35	6	6	5	1.5	22 50	3	7	4	2.5	24 6	17.9	29.1	3	3.4	25 24	6	3				
50	5	0	17 52	1	2	4	28.9	19 4	12.8	4	3	29.8	20 17	4	7	2	0.8	21 31	1	28.0	1	1.7	22 47	8	3	0	2.7	24 5	5	5				
51	2	27.3	16 31	10.7	4	0	2	17 42	5	6	11.9	1	18 54	1	9	12.8	0	20 8	15.8	2	13.8	0	21 24	6	5	14.7	1.9	22 41	3	8				
52	9.9	26.5	15 5	3	6	10.7	27.4	16 15	1	8	6	28.3	17 27	13.8	27.1	5	29.2	18 40	5	4	4	0.2	19 55	3	7	3	1	21 11	1	1.0				
53	5	25.6	13 33	9.9	8	4	26.5	14 43	11.7	26.1	2	27.4	15 53	4	3	1	28.4	17 6	2	7	0	29.3	18 20	0	9	13.9	0.2	19 36	18.8	2				
54	1	24.7	11 56	4	25.0	0	25.6	13 4	2	3	10.8	26.5	14 14	0	6	11.7	27.5	15 26	14.8	9	12.6	28.4	16 39	16.7	8	0.2	5	29.3	17 54	5	5			
55	8.7	23.8	10 13	8.9	2	9.6	24.6	11 20	10.7	5	4	25.5	12 29	12.5	8	3	26.4	13 39	4	29.2	2	27.3	14 51	3	5	1	28.3	16 4	2	8				
56	2	22.8	8 24	3	4	1	23.6	9 29	1	7	0	24.4	10 36	0	28.1	10.8	25.3	11 45	13.9	4	11.7	26.3	12 55	15.9	8	12.6	27.2	14 7	17.9	2.1				

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } $\cap$ 27°					H. M. S. } $\cap$ 28°					H. M. S. } $\cap$ 29°					H. M. S. } $\uparrow$ 0°					H. M. S. } $\uparrow$ 1°					H. M. S. } $\uparrow$ 2°									
SID. T. 15 38 49		234° 42' 3					235° 44' 4					236° 46' 6					237° 48' 9					238° 51' 5					239° 54' 2									
ARC		27°					28°					29°					0°					1°					2°									
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
		f	g	h	k	l	f	g	h	k	l	f	g	h	k	l	f	g	h	k	l	f	g	h	k	l	f	g	h	k	l	f	g	h	k	l
22	22.1	16.9	15 30	23.5	28.2	23.0	17.9	16 42	24.8	29.3	24.0	18.9	17 55	26.0	0.5	24.9	19.9	19 8	27.3	1.6	25.9	20.9	20 22	28.6	2.8	26.8	22.0	21 36	29.9	3.9						
23	21.9	6 15	6 4	3	22.9	6 16	19 7	4	23.8	6 17	32 0	6	8	6 18	45 3	7	7	6 19	59 6	9	7 21	7 21	15 9	4.0												
24	8	2 14	42 4	3	7	2 15	54 7	5	6	3 17	8 0	7	6	3 18	22 3	8	6	3 19	37 6	3.0	5	4 20	52 9	1												
25	6 15.9	14 16	3 4	5	16.9	15 29	7 6	5	17.9	16 43	25.9	8	5	18.9	17 58	3 9	4	0 19	13 6	1	3	1 20	29 9	2												
26	4	6 13	50 23.3	5	4	6 15	4 6	29.7	3	6 16	18 9	9	24.3	6 17	33 2	2.0	2	19.7	18 49	6	2	2 20	8 20	5 9	3											
27	3	2 13	23 2	28.6	2	2 14	37 24.6	8	2	3 15	52 9	1.0	1	3 17	7 27.2	1	1	4 18	24 28.5	3	0	5 19	41 29.9	4												
28	1 14.9	12 55	2 7	0	15.9	14 9	5 9	0	16.9	15 25	8 1	0	17.9	16 41	2 2	24.9	0	17 58	5 4	25.8	1 19	15 9	4.5													
29	20.9	5 12	26 1	8	21.9	5 13	41 5	8	22.8	6 14	57 8	2	23.8	6 16	13 2	3	7	18.6	17 31	5	3.5	7 19.7	18 49	9	7											
30	8	2 11	56 23.1	9	7	2 13	11 4	0.1	6	2 14	28 25.8	3	6	2 15	45 1	4	5	2 17	3 5	6	5	3 18	21 9	8												
31	6 13.8	11 25	0 29.0	5	14.8	12 41	24.4	2	5	15.8	13 57	7 4	4	16.8	15 15	1 7.5	4	17.8	16 34	5	7	3 18.9	17 53	9	9											
32	4	4 10	52 0	1	3	4 12	9 3	3	3	4 13	26 7	1.5	2	5 14	44 27.1	6	2	4 16	3 28.5	8	1	5 17	23 29.9	5.0												
33	2	0 10	19 22.9	2	1	0 11	36 3	4	1	0 12	54 7	6	0	1 14	12 1	8	0	0 15	32 5	4.0	24.9	1 16	52 9	2												
34	0 12.6	9 44	9 3	0	13.6	11 1	2 0.5	21.9	14.6	12 20	25.6	7	22.8	15.6	13 39	0 9	23.8	16.6	14 59	5 1	7	17.7	16 20	9	3											
35	19.8	2 9	8 8	29.5	20.8	2 10	26 24.2	6	7	2 11	44 6	8	6	2 13	4 0	3.0	6	2 14	24 4	2	5	3 15	46 9	4												
36	6 11.8	8 30	7 6	6	12.8	9 48	1 8	5	13.8	11 7	5 9	4	14.8	12 27	0 1	4	15.8	13 48	4 3	3	16.9	15 11	9 5.5													
37	4	3 7	51 22.6	7	3	3 9	9 1	9	3	3 10	28 5	2.0	2	3 11	49 26.9	3	2	4 13	11 28.4	4.4	1	4 14	33 29.9	6												
38	2 10.8	7 10	6 8	1	11.8	8 28	0 1.0	1	12.8	9 48	25.4	1	0	13.9	11 9	9 4	0	14.9	12 31	4 6	23.9	15.9	13 55	9	8											
39	0	4 6	26 5	8	19.9	4 7	45 23.9	2	20.8	4 9	5 4	3	21.8	4 10	27 9	3.6	22.7	4 11	50 4	7	7	5 13	14 9	9												
40	18.7	9.9	5 41	4	0.1	7 10.9	7 0	9 3	6	11.9	8 21	3 5	5	12.9	9 43	8 7	5	13.9	11 6	3 9	4	0 12	31 9	6.1												
41	5	3 4	53 22.3	3	4	3 6	13 8	5	4	4 7	34 3	6	3	4 8	57 8	9	2	4 10	20 28.3	5.1	2	14.4	11 45	9	3											
42	2	8.8	4 3	2	4	2 9.8	5 23	7 1.7	1	10.8	6 45	25.2	8	1	11.8	8 8	26.8	4.0	0 12.8	9 32	3	2	22.9	13.9	10 58	29.9	4									
43	0	3 3	10 1	6	18.9	3 4	31 23.6	8	19.8	2 5	53 2	3.0	20.8	3 7	16 7	2	21.7	2 8	41 3	4	6	3 10	6 8	6												
44	17.7	7.7	2 14	21.9	7	6 8.7	3 35	5 9	6	9.7	4 58	1 2	5	10.7	6 21	7 4	4	11.6	7 47	2 6	4	12.7	9 14	8	8											
45	4	1 1	116 8	8	4	1 2	37 4	2.1	3	1 3	59 0	4	3	1 5	23 6	6	1	0 6	49 28.2	8	1	1 8	17 8	7.0												
46	1	6.5	0 13	7	1.0	1 7.4	1 35	3 3	0	8.4	2 57	24.9	6	0	9.4	4 22	6 8	20.9	10.4	5 48	2 6.0	21.8	11.5	7 16	8	2										
47	16.8	5.8	29 7	6	2	17.8	6.8	0 29	23.2	5	18.7	7.8	1 52	9 7	19.7	8.8	3 17	26.5	5.0	6	9.7	4 43	2 2	5	10.8	6 12	29.8	4								
48	5	1 27	58 21.4	4	5	1 29	19 1	7 4	1	0 42	8 9	3	1	2 7	5 2	3	0	3 34	1 4	2	1 5	3 8	6													
49	2	4.4	26 43	3	6	2 5.4	28 5	0 9	1	6.4	29 28	7 4.1	0	7.4	0 53	4 4	19.9	8.3	2 20	28.1	6	20.9	9.4	3 49	8	8										
50	15.9	3.7	25 24	2	8	16.8	4.7	26 46	22.9	3.1	17.7	5.6	28 9	6 4	18.7	6.6	29 34	4 6	6	7.6	1 0	1 9	5 8	7 2 29	8	8.1										
51	5	2.9	24 0	0	2.1	5 3.9	25 21	8 3	4	4.8	26 44	24.5	6	3	5.8	28 8	26.3	9	2	6.8	29 35	0 7.2	2	7.9	1 4	8	4									
52	2	1 22	30 20.8	3	1	1 23	50 7	6 0	0	25 13	4 8	17.9	0	26 37	2 6.1	18.8	0 28	4 0	5	19.8	0 29	35 29.5	7													
53	14.8	1.2	20 53	6	5	15.7	2.2	22 13	5 8	16.6	3.1	23 35	3 5.1	5	4.1	24 59	1 4	4	5.1	26 25	27.9	8	4	6.1	27 54	8	9.0									
54	4	0.2	19 10	4	8	3 1.2	20 29	3 4.1	2	2.2	21 51	2 4	1	3.1	23 14	0 7	0	4.1	24 39	9 8.1	18.9	5.1	26 7	8	3											
55	0 29.2	17 20	1 3.1	14.9	0.1	18 38	1 4	15.8	1.1	19 58	0 7	16.7	2.1	21 20	25.9	7.0	17.6	3.1	22 44	9 3	5	4.1	24 11	8	6											
56	13.5	28.2	15 22	19.8	4	4 29.0	16 38	21.9	7	3	0.0	17 56	23.8	6.0	2	1.0	19 17	8 4	1	2.0	20 40	8 7	0	3.0	22 6	8	9									

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 15 59 37 } † ARC 239° 54'.2 } 2°						H. M. S. 16 3 48 } † 3° 240° 57'.1 } † 3°						H. M. S. 16 8 0 } † 4° 242° 0'.1 } † 4°						H. M. S. 16 12 13 } † 5° 243° 3'.3 } † 5°						H. M. S. 16 16 27 } † 6° 244° 6'.7 } † 6°						H. M. S. 16 20 41 } † 7° 245° 10'.2 } † 7°					
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	†	‡	≡	⋈	♄	†	‡	≡	♁	♄	†	‡	≡	♁	♄	†	‡	≡	♁	♄	†	‡	≡	♁	♄	†	‡	≡	♁	♄	†	‡	≡	♁	♄
22	26.8	22.0	21 36	29.9	3.9	27.8	23.0	22 51	1.2	5.1	28.8	24.0	24 7	2.5	6.2	29.7	25.1	25 24	3.7	7.3	0.7	26.2	26 41	5.0	8.5	1.7	27.2	27 59	6.3	9.6					
23	7	21.7	21 15	9	4.0	6	22.7	22 30	2	2	6	23.7	23 47	5	3	6	24.8	25 4	8	4	5	25.8	26 22	1	6	5	26.9	27 40	4	7					
24	5	4	20 52	9	1	5	4	22 8	2	3	4	4	23 25	5	4	4	5	24 43	8	5	4	5	26 2	1	7	3	6	27 21	4	8					
25	3	1	20 29	9	2	3	1	21 46	2	4	3	1	23 3	5	5	2	1	24 22	8	6	2	2	25 41	1	8	2	3	27 0	5	9					
26	2	20.8	20 5	9	3	1	21.8	21 23	2	5	1	22.8	22 41	5	6.6	1	23.8	24 0	3.8	8	0	24.9	25 19	2	9	0	0	26 40	6.5	10.1					
27	0	5	19 41	29.9	4	0	5	20 59	1.2	5.6	27.9	4	22 17	2.5	7	28.9	5	23 37	9	9	29.9	6	24 57	5.2	9.0	0.8	25.6	26 18	6	2					
28	25.8	1	19 15	9	4.5	26.8	1	20 34	2	7	8	1	21 53	6	9	7	1	23 13	9	8.0	7	2	24 34	2	2	7	3	25 56	6	3					
29	7	19.7	18 49	9	7	6	20.7	20 8	2	8	6	21.7	21 28	6	7.0	6	22.8	22 48	9	1	5	23.9	24 10	3	3	5	0	25 32	7	4					
30	5	3	18 21	9	8	4	3	19 41	2	9	4	4	21 2	6	1	4	4	22 23	4.0	3	3	5	23 45	3	4	3	24.6	25 8	6.7	10.6					
31	3	18.9	17 53	9	9	3	19.9	19 13	2	6.1	2	0	20 34	6	2	2	1	21 56	0	4	2	2	23 19	4	9.6	1	2	24 43	8	7					
32	1	5	17 23	29.9	5.0	1	5	18 44	1.3	2	0	20.6	20 6	2.7	4	0	21.7	21 29	0	8.5	0	22.8	22 52	5.4	7	29.9	23.9	24 17	8	9					
33	24.9	1	16 52	9	2	25.9	1	18 14	3	3	26.8	2	19 36	7	7.5	27.8	3	20 59	1	6	28.8	4	22 24	5	8	7	5	23 49	9	11.0					
34	7	17.7	16 20	9	3	7	18.7	17 42	3	5	6	19.8	19 5	7	6	6	20.9	20 29	1	8	6	0	21 54	5	10.0	5	1	23 20	7.0	2					
35	5	3	15 46	9	4	5	3	17 9	3	6.6	4	4	18 32	7	7	4	5	19 57	4.2	9	4	21.6	21 23	6	1	3	22.7	22 50	0	3					
36	3	16.9	15 11	9	5.5	3	17.9	16 34	3	7	2	0	17 58	2.7	8	2	1	19 24	2	9.1	2	1	20 50	6	3	1	2	22 18	1	5					
37	1	4	14 33	29.9	6	1	5	15 57	1.3	8	0	18.5	17 22	8	8.0	0	19.6	18 49	2	2	27.9	20.7	20 16	5.7	4	28.9	21.8	21 45	2	6					
38	23.9	15.9	13 55	9	8	24.9	0	15 19	3	7.0	25.8	1	16 45	8	1	26.8	1	18 12	3	4	7	2	19 40	8	10.6	7	3	21 10	7.3	8					
39	7	5	13 14	9	9	6	16.5	14 39	3	1	6	17.6	16 5	8	3	5	18.7	17 33	3	5	5	19.7	19 2	8	8	5	20.8	20 33	3	12.0					
40	4	0	12 31	9	6.1	4	0	13 57	4	3	3	1	15 24	2.9	5	3	2	16 53	4.4	7	3	2	18 22	9	9	2	3	19 54	4	1					
41	2	14.4	11 45	9	3	1	15.5	13 12	4	5	1	16.6	14 40	9	7	1	17.6	16 9	4	9	0	18.7	17 40	6.0	11.0	0	19.8	19 12	5	3					
42	22.9	13.9	10 58	29.9	4	23.9	14.9	12 25	1.4	6	24.9	0	13 54	9	9	25.8	1	15 24	5	10.1	26.7	2	16 56	0	2	27.7	3	18 28	7.6	5					
43	6	3	10 6	8	6	6	3	11 35	4	8	6	15.4	13 4	3.0	9.1	5	16.5	14 35	5	3	5	17.6	16 8	1	4	4	18.7	17 42	7	6					
44	4	12.7	9 14	8	8	3	13.7	10 42	4	8.0	3	14.8	12 12	0	2	2	15.9	13 44	6	5	2	0	15 17	2	6	2	1	16 52	8	8					
45	1	1	8 17	8	7.0	0	1	9 46	4	2	0	2	11 17	1	4	24.9	3	12 49	4.7	7	25.9	16.4	14 23	6.3	9	26.9	17.5	15 59	9	13.0					
46	21.8	11.5	7 16	8	2	22.7	12.5	8 46	5	5	23.7	13.6	10 17	1	6	6	14.7	11 50	8	9	6	15.8	13 25	4	12.1	6	16.8	15 2	8.1	2					
47	5	10.8	6 12	29.8	4	4	11.8	7 42	1.5	7	4	12.9	9 14	2	8	3	0	10 48	8	11.1	3	1	12 23	5	3	3	2	14 1	2	4					
48	2	1	5 3	8	6	1	1	6 33	5	9	1	2	8 6	3.2	10.0	0	13.3	9 40	9	4	0	14.4	11 17	6	5	25.9	15.5	12 56	3	7					
49	20.9	9.4	3 49	8	8	21.8	10.4	5 20	5	9.1	22.8	11.5	6 53	3	3	23.7	12.6	8 28	5.0	6	24.6	13.7	10 5	6.7	8	6	14.7	11 45	5	14.0					
50	5	8.7	2 29	8	8.1	5	9.7	4 1	6	4	4	10.7	5 34	3	6	4	11.8	7 10	1	9	3	12.9	8 48	8	13.1	3	0	10 28	8.6	3					
51	2	7.9	1 4	8	4	1	8.9	2 36	6	7	1	9.9	4 9	4	9	0	0	5 45	2	12.2	23.9	1	7 24	9	4	24.9	13.2	9 5	7	6					
52	19.8	0	29 33	29.8	7	20.7	1	1 4	1.7	10.0	21.7	1	2 38	3.5	11.2	22.6	10.1	4 14	3	5	5	11.2	5 53	7.1	7	5	12.3	7 35	9	9					
53	4	6.1	27 54	8	9.0	3	7.2	29 25	7	3	2	8.2	0 59	6	5	2	9.2	2 35	5.4	8	1	10.3	4 14	3	14.1	1	11.3	5 57	9.1	15.2					
54	18.9	5.1	26 7	8	3	19.9	6.2	27 38	8	6	20.8	7.2	29 11	7	8	21.7	8.2	0 47	6	13.1	22.7	9.3	2 27	5	4	23.6	10.3	4 9	3	6					
55	5	4.1	24 11	8	6	4	5.1	25 41	8	9	3	6.1	27 14	7	12.2	3	7.1	28 50	7	5	2	8.2	0 28	7	8	1	9.3	2 10	6	16.1					
56	0	3.0	22 6	8	9	18.9	3.9	23 35	8	11.3	19.8	5.0	25 6	8	5	20.8	6.0	26 41	9	9	21.7	7.0	28 19	9	15.2	22.6	8.1	0 0	9	5					

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. } ♀ SID. T. 16 24 55 } ARC 246° 13'.8 } 8°					H. M. S. } ♀ 9° 16 29 11 } 247° 17'.6 }					H. M. S. } ♀ 10° 16 33 26 } 248° 21'.6 }					H. M. S. } ♀ 11° 16 37 42 } 249° 25'.6 }					H. M. S. } ♀ 12° 16 41 59 } 250° 29'.8 }					H. M. S. } ♀ 13° 16 46 16 } 251° 34'.1 }								
11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3				
Lat.	♌	♍	♎	♏	♌	♍	♎	♏	♌	♍	♎	♏	♌	♍	♎	♏	♌	♍	♎	♏	♌	♍	♎	♏	♌	♍	♎	♏					
22	2.6	23.3	29.18	7.6	10.7	3.6	29.4	0.37	8.9	11.9	4.6	0.5	1.57	10.3	13.0	5.6	1.6	3.17	11.6	14.1	6.6	2.7	4.38	12.9	15.2	7.6	3.8	5.59	14.2	16.4			
23	5	0	28.59	7	8	5	1	0.19	9.0	12.0	4	2	1.40	3	1	4	3	3	1	6	2	4	4	4.22	13.0	4	4	5	5.44	3	5		
24	3	27.7	28.40	7	11.0	3	28.8	0	1	1	1	3	29.9	1.22	4	2	3	0	2.44	7	4	3	1	4	6	1	5	2	2	5.29	4	6	
25	2	4	28.21	8	1	1	5	29.42	1	2	1	6	1	4	5	4	1	0.7	2.26	8	5	1	1.8	3.49	1	6	1	2.9	5	13	5	8	
26	0	1	28	1	8	2	0	2	29.23	2	3	3.9	3	0.45	5	13.5	4.9	4	2	8	9	14.6	5.9	5	3.32	2	7	6.9	6	4	5.6	14.6	9
27	1.8	26.7	27.40	9	3	2.8	27.8	29	2	3	12.5	8	28.9	0.26	10.6	6	8	0	1.50	12.0	7	7	1	3	1.4	3	9	7	3	4	3.9	7	17.0
28	6	4	27.18	8.0	11.5	6	5	28.41	9.3	6	6	6	0	5	7	7	6	29.7	1.30	1	9	6	0.8	2.56	13.4	16.0	6	0	4	2.2	8	2	
29	5	0	26.56	0	6	4	1	28.20	4	7	4	3	29.44	8	9	4	4	1	1.10	2	15.0	4	5	2.36	5	2	4	1.6	4	3	9	3	
30	3	25.7	26.32	1	7	3	26.8	27.57	5	9	2	27.9	29.22	9	14.0	2	0	0.49	3	2	2	2	2	1.6	7	3	2	3	3	4.4	15.1	5	
31	1	3	26	8	2	9	1	4	27.33	6	13.0	1	5	29	0	11.0	2	0	28.7	0.27	4	3	0	29.8	1.55	8	5	0	0.9	3	2.4	2	17.6
32	0.9	0	25.42	2	12.0	1.9	1	27	8	9.6	2	2.9	2	28.36	1	3	3.8	3	0	4	12.5	5	4.8	5	1.33	9	16.6	5.8	6	3	3	3	8
33	7	24.6	25.15	8.3	2	7	25.7	26.42	7	3	7	26.8	28.11	2	5	6	27.9	29.40	6	15.6	6	1	1	1.10	14.0	8	6	2	2	4.0	4	9	
34	5	2	24.47	4	3	5	3	26.15	8	5	5	4	27.44	3	6	4	5	29.14	7	8	4	28.7	0.45	1	9	4	29.8	2	17	15.6	18.0		
35	3	23.8	24.18	5	5	3	24.9	25.47	9	13.6	3	0	27.17	4	8	2	1	28.48	8	9	2	3	0	2.0	3	17.1	2	4	1	5.3	7	1	
36	1	3	23.47	6	6	1	4	25.17	10.0	8	1	25.6	26.48	11.5	15.0	0	26.7	28.20	9	16.0	0	27.8	29.53	4	3	0	0	1	2.7	9	3		
37	29.9	22.9	23.15	8.6	8	0.8	0	24.45	1	9	1.8	1	26.17	6	1	2.8	3	27.51	13.1	2	3.8	4	29.25	14.6	5	4.8	28.5	1	0	16.0	5		
38	7	4	22.40	7	13.0	6	23.5	24.12	2	14.0	6	24.7	25.45	7	2	6	25.8	27.20	2	4	6	26.9	28.55	7	6	6	1	0	3.2	2	7		
39	4	21.9	22	4	8	1	4	0	23.37	3	2	4	2	25.11	8	4	4	3	26.47	4	6	3	5	28.23	9	8	3	2	7.6	0	1	4	9
40	2	4	21.26	9	3	2	22.5	23	0	4	4	1	23.7	24.35	12.0	6	1	24.8	26.12	5	8	1	0	27.50	15.0	18.0	1	1	2	29	5	19.1	
41	28.9	20.9	20.46	9.0	5	29.9	0	22.21	10.5	6	0.9	2	23.57	1	8	1.9	3	25.35	7	17.0	2.9	25.5	27.14	2	2	3.8	26.6	28	5.4	7	3		
42	7	4	20	3	2	7	7	21.5	21.39	6	8	6	22.6	23.17	3	16.0	6	23.8	24.56	9	2	6	24.9	26.36	4	4	6	1	28	18	9	5	
43	4	19.8	19.17	3	9	4	20.9	20.55	7	15.0	4	0	22.33	5	2	3	2	24.14	14.1	4	3	3	25.55	6	6	3	25.5	27	39	17.1	8		
44	1	2	18.29	4	14.1	1	3	20	7	9	2	1	21.4	21.47	12.6	5	1	22.6	23.29	3	7	0	23.7	25.12	8	9	0	24.9	26	5.7	3	20.0	
45	27.8	18.6	17.36	9.6	3	28.8	19.7	19.16	11.1	4	29.8	20.8	20.57	7	7	0.8	0	22.40	5	9	1.7	1	24.25	16.0	19.1	2.7	3	26	12	6	3		
46	5	17.9	16.41	7	6	5	0	18.22	3	7	5	2	20	4	9	9	5	21.3	21.48	7	18.1	4	22.5	23.35	2	3	4	23.6	25	23	8	6	
47	2	3	15.41	8	8	2	18.4	17.23	5	9	2	19.5	19	7	13.1	17.1	2	20.6	20.52	9	3	1	21.8	22.41	4	6	1	0	24	31	18.1	8	
48	26.9	16.6	14.36	9	15.0	27.9	17.7	16.19	7	16.2	28.9	18.8	18	5	3	4	29.8	19.9	19.52	15.1	6	0.8	1	21.42	7	9	1.8	22.3	23	34	4	21.1	
49	6	15.8	13.27	10.1	3	5	16.9	15.11	9	5	5	1	16.58	5	7	5	2	18.46	3	9	5	20.4	20.38	17	0	20.2	5	21.5	22	32	7	4	
50	2	1	12.11	3	6	2	2	13.56	12.1	8	1	17.3	15.44	8	18.0	1	18.4	17.35	6	19.2	1	19.6	19.28	3	5	1	20.8	21	24	19	0	7	
51	25.8	14.3	10.49	5	9	26.8	15.4	12.35	3	17.2	27.8	16.5	14	24	14.1	3	28.7	17.6	16.16	9	5	29.7	18.8	18.11	6	8	0	7	19.9	20	9	4	22.0
52	4	13.4	9.19	7	16.2	4	14.5	11	7	6	5	4	15.6	12.57	4	6	3	16.7	14.50	16.2	9	3	17.9	16.47	18.0	21.1	3	0	18	46	8	4	
53	0	12.4	7.42	9	6	0	13.5	9.30	9	8	0	14.7	11.21	7	19.0	27.9	15.8	13.15	5	20.3	28.9	16.9	15.14	4	5	29.9	18.1	17	15	20.2	7		
54	24.6	11.4	5.54	11.2	9	25.5	12.5	7.43	13.2	18.2	26.5	13.6	9.35	15.0	4	4	14.8	11.31	9	7	4	15.9	13.31	8	9	4	17.1	15	34	7	23.1		
55	1	10.3	3.56	5	17.3	0	11.4	5.45	5	6	0	12.5	7.38	4	8	26.9	13.7	9.35	17.3	21.1	27.9	14.8	11.36	19.3	22.3	28.9	16.0	13	41	21.2	6		
56	23.6	9.1	1.45	8	7	24.5	10.2	3.34	9	19.0	25.5	11.3	5.27	8	20.2	4	12.5	7.25	8	5	4	13.6	9.27	8	7	3	14.8	11	33	8	24.0		

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } † 13°					H. M. S. } † 14°					H. M. S. } † 15°					H. M. S. } † 16°					H. M. S. } † 17°					H. M. S. } † 18°									
SID. T. 16 46 16		16 50 34					16 54 52					16 59 11					17 3 30					17 7 49														
ARC 251° 34'.1		252° 38'.5					253° 43'.1					254° 47'.7					255° 52'.5					256° 57'.3														
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3						
Lat.	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎						
22	7.6	3.8	5.59	14.2	16.4	8.6	4.9	7.21	15.5	17.5	9.6	6.1	8.43	16.8	18.6	10.6	7.2	10.6	18.1	19.7	11.6	8.3	11.29	19.4	20.8	12.6	9.5	12.53	20.7	21.9						
23	4	5	5.44	3	5	4	6	7	7	6	4	5.8	8.30	9	7	4	6.9	9.53	2	9	4	1	11	17	5	21.0	4	2	12	42	9	22.1				
24	2	2	5.29	4	6	2	3	6.52	7	8	2	5	8.16	17.0	9	3	6	9.40	4	20.0	3	7.8	11	5	7	1	3	8.9	12	31	21.0	2				
25	1	2.9	5.13	5	8	1	0	6.37	8	9	1	2	8	2	2	19.0	1	3	9.27	5	1	1	5	10	53	8	2	1	6	12	19	1	4			
26	6.9	6	4.56	14.6	9	7.9	3.7	6.21	9	18.0	8.9	4.9	7.47	3	1	9.9	0	9.13	18.6	3	10.9	2	10	40	20.0	4	0	3	12	7	3	5				
27	7	3	4.39	7	17.0	7	4	6	5	16.0	2	7	6	7.31	4	3	8	5.7	8.59	8	4	8	6.9	10	26	1	21.5	11.8	0	11	54	4	22.6			
28	6	0	4.22	8	2	6	1	5.48	2	3	6	2	7.15	17.5	4	6	4	8.44	9	20.5	6	6	10	12	3	7	6	7.7	11	41	6	8				
29	4	1.6	4	3	9	3	4	2.8	5.31	3	4	4	3.9	6.59	7	19.6	4	1	8.28	19.0	7	4	3	9.57	4	8	4	4	11	27	8	9				
30	2	3	3.44	15.1	5	2	4	5.12	4	18.6	2	6	6.42	8	7	2	4.7	8.11	2	9	2	5.9	9.42	20.6	22.0	3	1	11	13	22.0	23.1					
31	0	0.9	3.24	2	17.6	0	1	4.53	16.6	7	0	3	6.23	18.0	9	0	4	7.54	4	21.0	0	6	9.26	8	1	1	6.8	10	58	1	3					
32	5.8	6	3	3	3	8	6.8	1.7	4.33	7	9	7.8	2.9	6	4	1	20.0	8.8	1	7.36	5	2	9.8	2	9	9	9	3	10.9	4	10	43	3	4		
33	6	2	2.40	4	9	6	4	4.12	9	19.0	6	5	5.45	3	2	6	3.7	7.18	7	3	6	4.9	8.52	21.1	5	7	1	10	26	5	6					
34	4	29.8	2.17	15.6	18.0	4	0	3.50	17.0	2	4	1	5.24	4	4	4	3	6.58	9	5	4	5	8.33	3	6	5	5.7	10	9	7	7					
35	2	4	1.53	7	1	2	0.6	3.27	2	4	2	1.7	5	2	6	5	2	2.9	6.37	20.0	7	2	1	8.13	5	8	3	3	9.51	9	9					
36	0	0	1.27	9	3	0	1	3	2	4	6	0	3	4.38	8	7	0	5	6.15	2	9	0	3.7	7.53	7	23.0	1	4.9	9.32	23.1	24.1					
37	4.8	28.5	1	0	16.0	5	5.8	29.7	2.37	5	7	6.8	0.9	4.14	19.0	9	7.8	1	5.52	4	22.1	8.8	2	7.31	9	2	9.8	5	9	11	3	3				
38	6	1	0.32	2	7	6	3	2	9	7	9	6	4	3.48	2	21.1	6	1.6	5.27	6	2	6	2.8	7	8	22.1	4	6	0	8.50	6	5				
39	3	27.6	0	1	4	9	3	28.8	1.40	9	20.1	3	0	3.20	4	3	3	2	5	1	8	4	4	3	6.44	3	6	4	3.6	8.27	8	7				
40	1	1	29.29	5	19.1	1	3	1	9	18.0	3	1	29.5	2.51	5	5	1	0.7	4.34	21.0	6	1	1.9	6.18	5	8	2	1	8	3	24.0	9				
41	3.8	26.6	28	54	7	3	4.8	27.8	0.36	2	5	5.8	0	2.19	7	7	6.9	2	4	4	2	8	7.9	4	5.50	8	24.0	8.9	2.6	7.36	3	25.1				
42	6	1	28	18	9	5	6	3	0	1	5	7	6	28.4	1.46	9	9	6	29.6	3.32	5	23.0	6	0.9	5.20	23.1	2	6	1	7	8	6	3			
43	3	25.5	27	39	17.1	8	3	26.7	29.24	7	9	3	27.9	1.10	20.2	22.1	3	1	2.58	8	3	3	3	4.48	4	4	4	1.5	6.38	9	6					
44	0	24.9	26	57	3	20.0	0	1	28.44	9	21.2	0	3	0.32	5	4	0	28.5	2.22	22.1	5	1	29.7	4	13	7	7	1	0.9	6	6	25.2	8			
45	2.7	3	26	12	6	3	3.7	25.5	28	0	19.2	5	4.7	26.7	29.50	8	6	5.7	27.9	1.42	4	8	6.8	1	3.36	24.0	25.0	7.8	3	5.31	5	26.1				
46	4	23.6	25	23	8	6	4	24.8	27	14	4	7	4	0.29	6	21.1	9	4	2	1	0	7	24.1	5	28.5	2.55	3	2	5	29.7	4	53	8	4		
47	1	0	24	31	18.1	8	1	1	26.23	7	22.0	1	25.3	28	17	4	23.2	1	26.6	0.13	23.0	4	1	27.8	2.12	6	5	1	0	4	12	26.2	7			
48	1.8	22.3	23	34	4	21.1	2.8	23.4	25	28	20.0	3	3.8	24.6	27	25	7	5	4.8	25.9	29	23	3	7	5.8	1	1	24	25.0	8	6.8	28.3	3	27	6	27.0
49	5	21.5	22	32	7	4	4	22.7	24	28	3	6	4	23.9	26	27	22.0	8	4	2	28	28	7	25.0	4	26.4	0.32	4	26.1	5	27.6	2	37	27.0	3	
50	1	20.8	21	24	19.0	7	1	21.9	23	22	7	9	1	1	25	23	4	24.1	1	24.4	27	27	24.1	3	1	25.6	29	34	8	4	1	26.8	1	42	5	6
51	0.7	19.9	20	9	4	22.0	1.7	1	22	10	21.1	23.2	2.7	22.3	24	13	8	4	3.7	23.5	26	20	5	7	4.7	24.8	28	29	26.3	8	5.7	0	0.42	28.0	9	
52	3	0	18	46	8	4	3	20.2	20	50	5	6	3	21.4	22	56	23.2	8	3	22.6	25	5	25.0	26.0	3	23.9	27	18	8	27.2	3	25.1	29	34	5	28.3
53	29.9	18.1	17	15	20.2	7	0.9	19.2	19	21	22.0	24.0	1.9	20.4	21	30	7	25.2	2.9	21.7	23	42	5	3	3.9	22.9	25	58	27.4	6	4.9	24.2	28	18	29.1	7
54	4	17.1	15	34	7	23.1	4	18.2	17	41	5	4	4	19.4	19	53	24.3	6	4	20.6	22	9	26.1	7	4	21.8	24	28	28.0	28.0	4	23.2	26	52	8	29.1
55	28.9	16.0	13	41	21.2	6	29.9	17.1	15	50	23.1	8	0.9	18.3	18	4	9	26.0	1.9	19.5	20	23	8	27.2	2.9	20.8	22	46	7	4	3.9	22.0	25	14	0.5	6
56	3	14.8	11	33	8	24.0	3	15.9	13	45	7	25.2	3	17.0	16	1	25.6	5	3	18.2	18	22	27.6	8	3	19.6	20	50	29.5	9	3	20.8	23	22	1.3	0.2

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

SID. T.	H. M. S. 17 12 9 } ♀ 19°					H. M. S. 17 16 29 } ♀ 20°					H. M. S. 17 20 49 } ♀ 21°					H. M. S. 17 25 10 } ♀ 22°					H. M. S. 17 29 30 } ♀ 23°					H. M. S. 17 33 51 } ♀ 24°																						
	ARC	258°	2'.	2	19°	259°	7'.	2	20°	260°	12'.	3	21°	261°	17'.	4	22°	262°	22'.	6	23°	263°	27'.	8	24°																							
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3																							
Lat.	♌	♍	♎	♏	♐	♌	♍	♎	♏	♐	♌	♍	♎	♏	♐	♌	♍	♎	♏	♐	♌	♍	♎	♏	♐																							
22	13.6	10.7	14	17	22.0	14.6	11.8	15	42	23.3	15.6	13.0	17	6	24.6	16.7	14.2	18	32	25.9	17.7	15.4	19	57	27.2	27.4	18	8	16.6	21	23	28.5	28.5															
23	5	4	14	7	2	5	6	15	32	5	5	12	7	16	58	8	5	13	9	24	26.1	5	5	1	19	51	4	6	6	3	21	17	7	6														
24	3	1	13	57	3	3	3	15	23	6	4	3	5	16	50	9	4	7	18	17	2	6	4	14	9	19	44	6	7	4	1	21	11	9	8													
25	1	9	8	13	46	5	5	2	0	15	13	8	6	2	16	41	25.1	7	2	4	18	9	4	8	2	6	19	37	7	9	3	15	8	21	5	29.1	9											
26	0	5	13	35	6	23.6	0	10	7	15	3	24.0	7	0	11	9	16	31	3	8	0	1	18	0	6	9	1	3	19	30	9	28.0	1	5	20	59	3	29.1										
27	12.8	2	13	23	8	8	13.8	4	14	52	1	9	14.8	6	16	22	5	26.0	15.9	12.8	17	52	8	27.1	16.9	0	19	22	28.1	2	17	9	3	20	53	5	3											
28	6	8	9	13	11	23.0	9	6	1	14	41	3	25.0	7	3	16	12	6	1	7	5	17	43	27.0	2	7	13	7	19	14	3	3	8	0	20	46	7	4										
29	4	6	12	58	1	24.0	5	9	8	14	30	5	2	5	0	16	1	8	3	5	2	17	33	2	4	6	5	19	6	5	5	6	14	7	20	39	9	6										
30	3	3	12	45	3	2	3	5	14	17	7	3	3	10	7	15	50	26.0	4	3	11	9	17	24	4	5	4	2	18	57	8	6	4	4	20	31	0.1	7										
31	1	0	12	31	5	4	1	2	14	5	9	5	1	4	15	39	2	6	2	6	17	13	6	7	2	12	9	18	48	29.0	8	2	1	20	24	3	9											
32	11.9	7	6	12	17	7	5	12	9	13	51	25.1	7	13	9	1	15	27	4	8	0	3	17	3	8	9	0	5	18	39	2	29.0	1	13	8	20	16	5	0.1									
33	7	3	12	2	9	7	7	5	13	37	3	8	7	9	7	15	14	7	27.0	14.8	0	16	51	28.0	28.1	15.8	2	18	29	4	2	16	9	4	20	7	8	3										
34	5	6	9	11	46	24.1	9	5	1	13	23	5	26.0	5	3	15	1	9	1	6	10	6	16	39	3	3	6	11	8	18	18	6	4	7	1	19	58	1.0	5									
35	3	5	11	29	3	25.1	3	7	7	13	7	7	2	3	0	14	47	27.1	3	4	2	16	27	5	4	4	4	18	7	9	6	5	12	7	19	48	3	7										
36	1	1	11	11	5	3	1	3	12	51	26.0	4	1	8	6	14	32	4	5	2	9	8	16	14	8	6	2	1	17	56	0.2	8	3	3	19	38	6	9										
37	10.8	5	7	10	52	8	5	11	9	12	34	2	6	12	9	2	14	16	6	7	13	9	4	15	59	29.1	8	0	10	7	17	43	5	Π	0	11	9	19	27	9	1.1							
38	6	2	10	32	25.0	7	7	5	12	15	5	8	7	7	7	14	0	9	9	7	0	15	44	4	29.0	14.8	3	17	30	8	0.2	15	8	5	19	16	2.2	3										
39	4	4	8	10	11	3	9	4	0	11	56	8	27.0	5	3	13	42	28.2	28.1	5	8	6	15	28	7	3	5	9	8	17	16	1.1	4	6	1	19	4	5	5									
40	2	3	9	48	5	26.1	2	5	6	11	35	27.0	2	2	6	8	13	23	5	3	2	1	15	11	8	5	3	4	17	1	4	6	3	10	7	18	51	8	7									
41	9.9	3	8	9	24	8	3	10	9	1	11	13	3	4	0	3	13	3	9	5	0	7	6	14	53	0.3	7	0	8	9	16	45	8	8	1	2	18	37	3.2	2.0								
42	6	3	8	58	26.1	5	7	4	6	10	49	6	6	11	7	5	8	12	41	29.2	7	12	7	1	14	34	7	Π	13	8	4	16	28	2.2	1.1	14	8	9	7	18	22	6	2					
43	4	2	8	8	30	4	7	4	0	10	23	9	9	4	3	12	18	6	29.0	5	6	6	14	13	1.1	0.2	5	7	9	16	9	6	4	6	2	18	6	4.0	5									
44	1	2	8	0	7	27.0	1	3	5	9	55	28.3	28.1	1	4	7	11	52	8	3	2	0	13	50	5	4	2	3	15	49	3.0	6	3	8	6	17	49	5	7									
45	8.8	1	6	7	27	27.1	2	9	8	2	9	26	7	4	10	8	1	11	25	0.4	6	11	9	5	4	11.9	5	4	13	26	9	7	12	9	6	7	15	27	4	9	0	0	17	30	9	3.0		
46	5	0	6	52	5	5	5	2	8	53	29.1	7	5	3	5	10	55	7	9	6	4	8	12	59	2.3	1.0	6	1	15	4	8	2.2	13	7	4	17	9	5	3	3								
47	2	0	3	6	14	9	8	2	1	6	8	17	5	2	2	8	10	23	1.1	0.2	3	1	12	29	7	3	3	5	5	14	38	4.2	4	3	6	8	16	47	7	6								
48	7.8	29.6	5	32	28.3	28.2	8	9	0	9	7	38	9	3	9	9	1	9	47	5	5	10	9	5	5	10.9	3	4	11	57	3.1	6	0	4	8	14	9	7	7	0	1	16	22	6.2	9			
49	5	28	9	4	45	7	5	5	1	6	55	0.3	6	5	1	4	9	8	2.0	8	6	2	7	11	22	6	2.0	11	6	1	13	37	5.2	3.1	12	7	5	4	15	55	7	4.3						
50	1	1	3	54	29.2	8	1	29	4	6	8	8	Π	2	0	7	8	24	5	1.2	2	0	10	42	4.1	3	2	3	4	13	2	7	4	3	4	7	15	24	7.3	6								
51	6	7	27	3	257	7	29.2	7	8	28	6	5	1.3	0.4	8	8	29	7	35	3.1	5	9	8	1	2	9	10.9	2	6	12	23	6.3	8	11	9	3	9	14	50	9	5.0							
52	3	26	4	1	53	0.3	5	4	2	7	7	4	15	9	8	4	0	6	41	7	9	4	0	3	9	9	5	3	1	1	7	11	30	7	0	4	2	5	0	14	12	8	6	4				
53	5	9	25	4	0	42	9	9	6	9	26	8	3	8	2	6	1.2	7	9	28	1	5	39	4	4	2.3	0	29	4	8	13	6	0	0	7	10	48	7	6	1	2	1	13	28	9	4	8	
54	4	24	4	29	20	1.6	0.3	4	25	8	1	52	3.3	6	4	27	1	4	28	5.1	8	8	5	28	3	7	8	9	9	5	29	7	9	5	1	10	6	1	1	13	37	10	2	6				
55	4	9	23	3	27	47	2.3	8	5	9	24	6	0	25	4	1	2	0	25	3	7	9	3	3	0	27	2	5	54	7	6	44	0	28	6	8	44	9	4	6	0	0	0	11	38	11	1	7
56	3	22	0	26	0	3.1	1.3	3	23	3	28	44	5	0	5	4	24	6	8	9	7	4	26	0	4	27	8	5	9	8	4	27	4	7	26	10	4	6	2	9	5	28	5	10	30	12	1	7

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 17 33 51 } † ARC 263° 27'.8 } 24°					H. M. S. 17 38 13 } † 25° 264° 33'.1 }					H. M. S. 17 42 34 } † 26° 265° 38'.5 }					H. M. S. 17 46 55 } † 27° 266° 43'.8 }					H. M. S. 17 51 17 } † 28° 267° 49'.2 }					H. M. S. 17 55 38 } † 29° 268° 54'.6 }				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
	°	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎
22	18.8	16.6	21.23	28.5	28.5	19.8	17.8	22.49	29.8	29.6	20.8	19.0	24.15	1.0	0.7	21.9	20.2	25.41	2.3	1.7	22.9	21.5	27.7	3.6	2.8	24.0	22.7	28.33	4.8	3.9	
23	6	3	21.17	7	6	6	5	22.44	9	7	7	18.8	24.11	2	8	7	0	25.38	5	9	8	2	27.5	8	3.0	23.8	5	28.33	5.0	4.0	
24	4	1	21.11	9	8	5	3	22.39	0.1	9	5	5	24.7	4	1.0	6	19.8	25.35	7	2.0	6	0	27.3	4.0	1	7	2	28.32	2	2	
25	3	15.8	21.5	29.1	9	3	0	22.34	3	Π	4	3	24.3	6	1	4	5	25.32	9	2	5	20.7	27.1	2	3	5	0	28.31	5	3	
26	1	5	20.59	3	29.1	2	16.8	22.29	5	0.2	2	0	23.59	8	3	3	3	25.29	3.1	3	22.3	5	26.59	4	4	4	21.8	28.29	7	5	
27	17.9	3	20.53	5	3	0	5	22.24	7	3	0	17.8	23.55	2.1	4	1	0	25.26	4	5	2	2	26.57	6	3.6	2	5	28.28	9	7	
28	8	0	20.46	7	4	18.8	2	22.18	1.0	5	19.9	5	23.50	3	1.6	20.9	18.7	25.22	6	7	0	0	26.55	9	7	0	3	28.27	6.2	8	
29	6	14.7	20.39	9	6	7	15.9	22.12	2	7	7	2	23.45	5	7	8	5	25.19	8	8	21.8	19.7	26.52	5.1	9	22.9	0	28.26	4	5.0	
30	4	4	20.31	0.1	7	5	6	22.6	4	8	5	16.9	23.40	7	9	6	2	25.15	4.1	3.0	6	4	26.50	4	4.1	7	20.7	28.25	7	1	
31	2	1	20.24	3	9	3	3	21.59	6	1.0	3	6	23.35	3.0	2.1	4	17.9	25.11	3	2	5	2	26.47	6	3	5	5	28.23	9	3	
32	1	13.8	20.16	5	0.1	1	0	21.52	9	2	2	3	23.29	2	3	2	6	25.7	5	3	3	18.9	26.44	9	4	4	2	28.22	7.2	5	
33	16.9	4	20.7	8	3	17.9	14.7	21.45	2.1	4	0	0	23.23	5	4	0	3	25.2	8	5	1	6	26.41	6.1	6	2	19.9	28.21	5	7	
34	7	1	19.58	1.0	5	7	4	21.38	4	5	18.8	15.6	23.17	7	6	19.8	16.9	24.58	5.1	7	20.9	2	26.38	4	8	0	6	28.19	8	9	
35	5	12.7	19.48	3	7	5	0	21.30	7	7	6	3	23.11	4.0	8	6	6	24.53	4	9	7	17.9	26.35	7	5.0	21.8	2	28.18	8.1	6.1	
36	3	3	19.38	6	9	3	13.6	21.21	3.0	9	4	14.9	23.4	3	3.0	4	2	24.48	7	4.1	5	5	26.32	7.1	2	6	18.9	28.16	4	3	
37	0	11.9	19.27	9	1.1	1	2	21.12	3	2.1	1	5	22.57	7	2	2	15.9	24.43	6.0	3	3	2	26.28	4	4	3	5	28.14	8	5	
38	15.8	5	19.16	2.2	3	16.9	12.8	21.2	6	4	17.9	1	22.49	5.0	5	0	5	24.37	4	5	1	16.8	26.24	8	6	1	1	28.12	9.1	7	
39	6	1	19.4	5	5	6	4	20.52	9	6	7	13.7	22.41	4	7	18.8	1	24.31	7	8	19.8	4	26.20	8.1	9	20.9	17.7	28.10	5	9	
40	3	10.7	18.51	8	7	4	0	20.41	4.3	8	4	3	22.33	7	9	5	14.6	24.24	7.1	5.0	6	0	26.16	5	6.1	6	3	28.8	9	7.2	
41	1	2	18.37	3.2	2.0	1	11.5	20.30	7	3.1	2	12.8	22.23	6.1	4.2	3	2	24.17	5	2	3	15.5	26.11	9	3	4	16.9	28.6	10.3	4	
42	14.8	9.7	18.22	6	2	15.9	0	20.17	5.1	3	16.9	4	22.13	5	4	0	13.7	24.10	8.0	5	1	1	26.6	9.4	6	2	4	28.3	8	7	
43	6	2	18.6	4.0	5	6	10.5	20.4	5	6	7	11.9	22.2	7.0	7	17.7	2	24.1	4	8	18.8	14.6	26.1	8	9	19.9	0	28.0	11.2	8.0	
44	3	8.6	17.49	5	7	3	9.9	19.49	6.0	8	4	3	21.51	4	9	5	12.7	23.52	9	6.0	5	1	25.55	10.3	7.1	6	15.5	27.57	7	2	
45	0	0	17.30	9	3.0	0	4	19.33	4	4.1	1	10.8	21.38	9	5.2	2	1	23.43	9.4	3	2	13.5	25.48	8	4	3	14.9	27.54	12.2	5	
46	13.7	7.4	17.9	5.3	3	14.7	8.8	19.16	8	4	15.8	2	21.24	8.3	5	16.9	11.6	23.32	9	6	17.9	12.9	25.41	11.3	7	0	4	27.51	7	8	
47	3	6.8	16.47	7	6	4	2	18.57	7.3	7	5	9.6	21.9	8	8	5	0	23.21	10.4	9	6	3	25.34	8	8.0	18.7	13.9	27.47	13.2	9.1	
48	0	1	16.22	6.2	9	1	7.5	18.37	8	5.0	1	8.9	20.52	9.3	6.1	2	10.4	23.8	9	7.2	3	11.7	25.25	12.4	3	3	3	27.42	8	4	
49	12.7	5.4	15.55	7	4.3	13.7	6.8	18.13	8.3	3	14.8	2	20.33	9	4	15.8	9.7	22.54	11.5	5	16.9	1	25.16	13.0	6	0	12.6	27.38	14.4	7	
50	3	4.7	15.24	7.3	6	3	1	17.48	9	7	4	7.5	20.12	10.5	8	5	0	22.38	12.1	9	6	10.4	25.5	6	9.0	17.6	11.9	27.33	15.1	10.1	
51	11.9	3.9	14.50	9	5.0	0	5.3	17.19	9.5	6.1	0	6.7	19.49	11.2	7.2	1	8.2	22.21	8	8.3	2	9.6	24.53	14.3	4	2	2	27.27	8	5	
52	5	0	14.12	8.6	4	12.6	4.4	16.46	10.2	5	13.6	5.9	19.23	9	6	14.7	7.4	22.1	13.5	7	15.8	8.8	24.40	15.1	8	16.8	10.4	27.20	16.6	9	
53	1	2.1	13.28	9.4	8	1	3.5	16.9	11.0	9	2	0	18.52	12.7	8.0	2	6.5	21.38	14.3	9.1	3	7.9	24.25	9	10.2	4	9.5	27.12	17.5	11.3	
54	10.6	1.1	12.37	10.2	6.2	11.6	2.5	15.26	9	7.4	12.7	4.0	18.18	13.6	5	13.7	5.5	21.12	15.2	6	14.8	6.9	24.7	16.8	7	15.9	8.5	27.3	18.4	8	
55	0	0.0	11.38	11.1	7	1	1.4	14.36	12.8	9	2	2.9	17.37	14.5	9.0	2	4.4	20.41	16.1	10.1	3	5.9	23.46	17.8	11.2	4	7.4	26.53	19.4	12.3	
56	9.5	28.8	10.30	12.1	7.2	10.5	0.2	13.38	13.8	8.5	11.6	1.7	16.49	15.5	6	12.7	3.2	20.4	17.1	7	13.7	4.7	23.21	18.9	8	14.8	6.2	26.40	20.5	9	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 18 0 0 } $\frac{1}{2}$ } ARC 270° 0'0 } 0°					H. M. S. 18 4 22 } $\frac{1}{2}$ } 1° 271° 5'4 } $\frac{1}{2}$ } 1°					H. M. S. 18 8 43 } $\frac{1}{2}$ } 2° 272° 10'8 } $\frac{1}{2}$ } 2°					H. M. S. 18 13 5 } $\frac{1}{2}$ } 3° 273° 16'2 } $\frac{1}{2}$ } 3°					H. M. S. 18 17 26 } $\frac{1}{2}$ } 4° 274° 21'5 } $\frac{1}{2}$ } 4°					H. M. S. 18 21 47 } $\frac{1}{2}$ } 5° 275° 26'9 } $\frac{1}{2}$ } 5°											
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3							
		$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{1}{4}$	$\frac{1}{2}$	$\frac{1}{2}$							
22	25.0	23.9	0	0	6.1	5.0	26.1	25.2	1	27	7.3	6.0	27.2	26.4	2	53	8.5	7.1	28.3	27.7	4	19	9.8	8.1	29.3	29.0	5	45	11.0	9.2	0.4	0.2	7	11	12	2	10.2	
23	24.9	7	0	0	3	1	0	0	1	27	5	2	0	2	2	55	8	2	1	5	4	22	10.0	3	2	28.8	5	49	2	3	3	1	7	16	5	4		
24	7	5	0	0	5	3	25.8	24.8	1	28	8	3	26.9	0	2	57	9.0	4	0	3	4	25	2	4	0	6	5	53	5	5	1	29.9	7	21	7	5		
25	6	3	0	0	7	4	7	5	1	29	8.0	5	7	25.8	2	59	3	5	27.8	1	4	28	5	6	28.9	4	5	57	7	6	0	7	7	26	13.0	7		
26	4	0	0	0	7.0	5.6	5	3	1	31	2	6	6	6	3	1	5	7	7	26.9	4	31	7	7	7	2	6	1	12.0	8	29.8	5	7	31	2	8		
27	3	22.8	0	0	2	7	3	1	1	32	5	8	4	4	3	3	8	8	5	6	4	34	11.0	9	6	27.9	6	5	2	10.0	7	3	7	36	5	11.0		
28	1	5	0	0	5	9	2	23.8	1	33	7	7.0	3	1	3	5	10.0	8.0	3	4	4	38	3	9.1	4	7	6	10	5	1	5	0	7	42	8	2		
29	23.9	3	0	0	7	6.1	0	6	1	34	9.0	1	1	24.9	3	8	3	2	2	2	4	41	5	2	3	5	6	15	8	3	3	28.8	7	48	14.1	3		
30	8	0	0	0	8.0	2	24.9	3	1	35	3	3	25.9	6	3	10	6	4	0	25.9	4	45	8	4	1	3	6	20	13.1	5	2	6	7	54	4	5		
31	6	21.8	0	0	2	4	7	1	1	37	5	5	7	4	3	13	8	5	26.8	7	4	49	12.1	6	27.9	0	6	25	4	7	0	4	8	1	7	7		
32	4	5	0	0	5	6	5	22.8	1	38	8	6	6	1	3	16	11.1	7	7	5	4	53	4	8	7	26.8	6	31	7	8	28.8	1	8	8	15.0	9		
33	2	2	0	0	8	8	3	5	1	39	10.1	8	4	23.9	3	19	4	9	5	2	4	58	7	10.0	6	5	6	37	14.0	11.0	6	27.9	8	15	3	12.1		
34	0	20.9	0	0	9.1	7.0	1	2	1	41	4	8.0	2	6	3	22	8	9.1	3	24.9	5	2	13.1	2	4	3	6	43	4	2	5	6	8	22	6	3		
35	22.8	6	0	0	4	2	23.9	2	1	42	8	2	0	3	3	25	12.1	3	1	6	5	7	4	4	2	0	6	49	7	4	3	3	8	30	16.0	5		
36	6	2	0	0	8	4	7	6	1	44	11.1	4	24.8	22.9	3	28	5	5	25.9	3	5	12	8	6	0	25.7	6	56	15.1	6	1	0	8	39	4	7		
37	4	19.9	0	0	10.1	6	5	2	1	46	5	7	6	6	3	32	8	7	7	0	5	17	14.1	8	26.8	3	7	3	5	9	27.9	26.7	8	48	8	9		
38	2	5	0	0	5	8	3	20.9	1	48	9	9	4	2	3	36	13.2	9	5	23.6	5	23	5	11.0	5	0	7	11	9	12.1	6	4	8	58	17.2	13.1		
39	0	1	0	0	9	8.0	1	5	1	50	12.3	9.1	1	21.9	3	40	6	10.2	2	3	5	29	9	2	3	24.6	7	19	16.3	3	4	1	9	8	6	4		
40	21.7	18.7	0	0	11.3	3	22.8	1	1	52	7	4	23.9	5	3	44	14.0	4	0	22.9	5	36	15.4	5	1	3	7	27	7	6	2	25.7	9	19	18.0	6		
41	5	3	0	0	7	5	6	19.7	1	54	13.1	6	7	1	3	49	5	7	24.8	5	5	43	8	7	25.8	23.9	7	37	17.2	8	26.9	3	9	30	5	9		
42	2	17.8	0	0	12.2	8	3	2	1	57	6	8	4	20.6	3	54	9	9	5	0	5	50	16.3	12.0	6	5	7	47	6	13.1	7	24.9	9	43	19.0	14.1		
43	0	4	0	0	6	9.0	0	18.8	2	0	14.0	10.1	1	2	3	59	15.4	11.2	2	21.6	5	59	8	3	3	0	7	58	18.1	3	4	5	9	56	5	4		
44	20.7	16.9	0	0	13.1	3	21.8	3	2	3	5	4	22.9	19.7	4	5	9	5	0	1	6	8	17.3	5	1	22.6	8	9	7	6	2	0	10	11	20.1	7		
45	4	3	0	0	7	6	5	17.8	2	6	15.1	7	6	2	4	12	16.5	8	23.7	20.6	6	17	9	8	24.8	1	8	22	19.2	9	25.9	23.6	10	27	6	15.0		
46	1	15.8	0	0	14.2	9	2	3	2	9	6	11.0	3	18.7	4	19	17.1	12.1	4	1	6	28	18.4	13.1	5	21.7	8	36	8	14.2	6	2	10	44	21.2	3		
47	19.8	3	0	0	7	10.2	20.9	16.8	2	13	16.1	3	0	2	4	26	7	4	1	19.6	6	39	19.0	5	2	2	8	51	20.4	5	3	22	7	11	3	8	6	
48	4	14.7	0	0	15.3	6	6	2	2	18	7	7	21.7	17.6	4	35	18.3	7	22.8	1	6	52	6	8	23.9	20.7	9	8	21.1	9	0	2	11	23	22.5	9		
49	1	0	0	0	16.0	9	3	15.6	2	22	17.4	12.0	4	0	4	41	9	13.1	5	18.5	7	6	20.3	14.2	6	1	9	27	8	15.2	24	7	21.7	11	47	23.2	16.3	
50	18.7	13.4	0	0	6	11.3	19.9	14.9	2	27	18.1	4	0	16.4	4	55	19.6	4	1	17.9	7	22	21.0	5	2	19.5	9	48	22.5	6	3	1	12	12	9	7		
51	3	12.7	0	0	17.3	7	5	2	2	33	8	8	20.6	15.7	5	7	20.4	8	21.7	2	7	39	8	9	22.8	18.8	10	11	23	3	16.0	23.9	20.5	12	41	24.7	17.0	
52	17.9	11.9	0	0	18.1	12.1	1	13.4	2	40	19.6	13.2	2	14.9	5	20	21.2	14.2	3	16.5	7	59	22.6	15.3	4	1	10	37	24.1	4	5	19	8	13	14	25.6	4	
53	5	0	0	0	19.0	5	18.7	12.5	2	48	20.5	6	19.8	1	5	35	22.1	7	20.9	15.7	8	22	23.5	8	0	17.3	11	8	25.0	8	1	0	13	51	26.5	9		
54	0	10.0	0	0	20.0	13.0	2	11.6	2	57	21.5	14.1	3	13.2	5	53	23.1	15.2	4	14.8	8	48	24.5	16.3	21.5	16.4	11	42	26.0	17	3	22	6	18.1	14	34	27.5	18.4
55	16.5	9.0	0	0	21.0	5	17.7	10.6	3	7	22.6	6	18.8	12.2	6	14	24.1	7	19.9	13.9	9	19	25.6	8	0	15.5	12	23	27.1	8	1	17.2	15	24	28.6	9		
56	15.9	7.9	0	0	22.1	14.1	1	9.5	3	20	23.8	15.2	2	11.1	6	39	25.3	16.3	3	12.9	9	56	26.8	17.3	20.4	14.5	13	11	28	3	18.4	21	5	16.2	16	22	29.8	19.5

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 18 21 47 } $\text{♁}$ ARC 275° 26'.9 } $5^\circ$					H. M. S. 18 26 9 } $\text{♁}$ $6^\circ$ 276° 32'.2 } $\text{♁}$ $6^\circ$					H. M. S. 18 30 30 } $\text{♁}$ $7^\circ$ 277° 37'.4 } $\text{♁}$ $7^\circ$					H. M. S. 18 34 50 } $\text{♁}$ $8^\circ$ 278° 42'.6 } $\text{♁}$ $8^\circ$					H. M. S. 18 39 11 } $\text{♁}$ $9^\circ$ 279° 47'.7 } $\text{♁}$ $9^\circ$					H. M. S. 18 43 31 } $\text{♁}$ $10^\circ$ 280° 52'.8 } $\text{♁}$ $10^\circ$									
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3					
22	0.4	0.2	7 11	12.2	10.2		1.5	1.5	8 37	13.4	11.2		2.6	2.8	10 3	14.6	12.3		3.7	4.1	11 28	15.8	13.3		4.8	5.4	12 54	17.0	14.4		5.9	6.7	14 18	18.2	15.4	
23	3	1	7 16	5	4		4	3	8 43	7	4		4	6	10 9	9	5		5	3.9	11 36	16.1	5		6	2	13 2	3	5		7	5	14 28	4	5	
24	1	29.9	7 21	7	5		2	1	8 49	9	6		3	4	10 16	15.1	6		4	8	11 43	3	6		5	1	13 10	5	7		6	4	14 37	7	7	
25	0	7	7 26	13.0	7		1	0.9	8 55	14.2	7		1	3	10 23	4	8		2	6	11 51	6	8		3	4.9	13 19	8	8		4	2	14 47	19.0	8	
26	29.8	5	7 31	2	8		0.9	7	9 1	5	9		0	1	10 30	7	9		1	4	12 0	9	14.0		2	7	13 29	18.1	15.0		5.3	0	14 57	3	16.0	
27	7	3	7 36	5	11.0		7	5	9 7	7	12.1		1.8	1.9	10 38	16.0	13.1		2.9	2	12 8	17.2	1		0	5	13 38	4	2		1	5.9	15 8	6	2	
28	5	0	7 42	8	2		6	3	9 14	15.0	2		7	7	10 46	3	3		8	0	12 17	5	3		3.9	4	13 48	7	3		0	7	15 19	9	4	
29	3	28.8	7 48	14.1	3		4	1	9 21	3	4		5	5	10 54	5	4		6	2.8	12 27	8	5		7	2	13 59	19.0	5		4.8	5	15 30	20.2	5	
30	2	6	7 54	4	5		3	29.9	9 29	6	6		4	2	11 3	8	6		5	6	12 36	18.1	7		6	0	14 10	3	7		7	3	15 43	5	7	
31	0	4	8 1	7	7		1	7	9 36	9	8		2	0	11 12	17.1	8		3	4	12 47	4	8		4	3.8	14 21	6	9		5	1	15 55	8	9	
32	28.8	1	8 8	15.0	9		29.9	5	9 44	16.2	9		0	0.8	11 21	5	14.0		1	2	12 57	7	15.0		2	6	14 33	9	16.1		3	4.9	16 9	21.1	17.1	
33	6	27.9	8 15	3	12.1		7	2	9 53	6	13.1		0.8	6	11 31	8	2		1.9	0	13 9	19.0	2		0	3	14 46	20.3	3		2	7	16 23	5	3	
34	5	6	8 22	6	3		5	0	10 2	9	3		6	4	11 42	18.2	4		7	1.7	13 21	4	4		2.9	1	14 59	7	5		0	5	16 37	9	5	
35	3	3	8 30	16.0	5		3	28.7	10 12	17.3	5		4	1	11 53	6	6		6	5	13 33	8	6		7	2.9	15 13	21.0	7		3.8	3	16 53	22.3	7	
36	1	0	8 39	4	7		1	4	10 22	7	7		2	29.8	12 4	9	8		4	2	13 46	20.2	8		5	6	15 28	4	9		6	0	17 9	7	9	
37	27.9	26.7	8 48	8	9		28.9	1	10 33	18.1	14.0		0	5	12 17	19.3	15.0		2	0.9	14 1	6	16.1		3	4	15 44	8	17.1		4	3.8	17 26	23.1	18.1	
38	6	4	8 58	17.2	13.1		7	27.8	10 44	5	2		29.8	2	12 30	7	2		0	6	14 16	21.0	3		1	1	16 0	22.3	3		2	5	17 45	5	3	
39	4	1	9 8	6	4		5	5	10 56	9	4		6	28.9	12 44	20.2	5		0.7	3	14 32	4	5		1.9	1.8	16 18	7	5		0	2	18 4	24.0	6	
40	2	25.7	9 19	18.0	6		3	2	11 9	19.3	7		4	6	12 59	6	7		5	0	14 49	9	7		7	5	16 37	23.2	8		2.8	0	18 25	4	8	
41	26.9	3	9 30	5	9		0	26.8	11 23	8	9		2	2	13 15	21.1	16.0		3	29.7	15 7	22.4	17.0		5	1	16 57	7	18.0		6	2.7	18 47	9	19.1	
42	7	24.9	9 43	19.0	14.1		27.8	4	11 38	20.3	15.2		28.9	27.8	13 32	6	2		0	3	15 26	9	3		3	0.8	17 19	24.2	3		4	4	19 11	25.4	3	
43	4	5	9 56	5	4		5	0	11 54	8	4		6	4	13 51	22.1	5		29.8	28.9	15 47	23.4	5		0	4	17 42	7	6		1	1	19 37	26.0	6	
44	2	0	10 11	20.1	7		3	25.5	12 11	21.4	7		4	0	14 11	7	8		6	5	16 10	24.0	8		0.7	0	18 8	25.3	9		1.9	1.7	20 5	5	9	
45	25.9	23.6	10 27	6	15.0		0	1	12 30	22.0	16.0		1	26.6	14 33	23.3	17.1		3	1	16 34	6	18.1		4	29.6	18 35	9	19.2		6	3	20 34	27.1	20.2	
46	6	2	10 44	21.2	3		26.7	24.7	12 51	6	3		27.8	2	14 56	9	4		0	27.7	17 1	25.2	4		1	3	19 5	26.5	5		3	0.9	21 7	8	5	
47	3	22.7	11 3	8	6		4	3	13 13	23.2	7		6	25.8	15 22	24.5	7		28.7	3	17 31	9	7		29.8	28.9	19 37	27.2	8		0	5	21 43	28.4	8	
48	0	2	11 23	22.5	9		1	23.8	13 38	9	17.0		3	3	15 51	25.2	18.0		4	26.9	18 3	26.6	19.1		5	5	20 13	9	20.1		0.7	1	22 22	29.1	21.1	
49	24.7	21.7	11 47	23.2	16.3		25.7	3	14 5	24.6	3		26.9	24.8	16 23	9	4		0	4	18 38	27.3	4		2	0	20 52	28.6	5		4	29.7	23 5	9	5	
50	3	1	12 12	9	7		4	22.7	14 36	25.3	7		6	3	16 58	26.6	8		27.7	25.9	19 18	28.0	8		28.8	27.5	21 36	29.3	8		0	2	23 52	0.6	9	
51	23.9	20.5	12 41	24.7	17.0		0	1	15 10	26.1	18.1		2	23.7	17 37	27.4	19.1		3	3	20 2	8	20.2		5	26.9	22 25	0.1	21.2		29.6	28.7	24 45	1.4	22.2	
52	5	19.8	13 14	25.6	4		24.6	21.4	15 48	27.0	5		25.8	0	18 21	28.3	5		26.9	24.7	20 51	29.7	6		1	3	23 19	1.0	6		2	1	25 45	2.3	6	
53	1	0	13 51	26.5	9		2	20.6	16 32	9	9		4	22.3	19 12	29.3	20.0		5	0	21 47	0.6	21.0		27.7	25.6	24 21	9	22.1		28.8	27.4	26 52	3.2	23.1	
54	22.6	18.1	14 34	27.5	18.4		23.8	19.8	17 23	28.9	19.4		24.9	21.5	20 9	0.3	5		1	23.2	22 52	1.7	5		2	24.9	25 32	2.9	6		4	26.7	28 8	4.2	6	
55	1	17.2	15 24	28.6	9		3	18.9	18 22	0.1	20.0		4	20.6	21 16	1.4	21.0		25.6	22.4	24 6	2.8	22.0		26.7	1	26 53	4.1	23.1		0	25.9	29 35	5.4	24.1	
56	21.5	16.2	16 22	29.8	19.5		22.8	17.9	19 30	1.2	5		23.8	19.6	22 34	2.6	6		1	21.5	25 33	4.0	6		1	23.2	28 27	5.4	6		27.5	0	1 16	6.7	7	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } SID. T. 18 47 51 } ARC 281° 57'.8 } 11°					H. M. S. } 18 52 11 } 283° 2'.7 } 12°					H. M. S. } 18 56 30 } 284° 7'.5 } 13°					H. M. S. } 19 0 49 } 285° 12'.3 } 14°					H. M. S. } 19 5 8 } 286° 16'.9 } 15°					H. M. S. } 19 9 26 } 287° 21'.5 } 16°				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
		♁	♋	♎	♏	♐	♁	♋	♎	♏	♐	♁	♋	♎	♏	♐	♁	♋	♎	♏	♐	♁	♋	♎	♏	♐	♁	♋	♎	♏	♐
22	7.0	8.0	15 43	19.3	16.4	8.1	9.3	17 7	20.5	17.4	9.2	10.6	18 31	21.7	18.4	10.3	11.9	19 54	22.8	19.4	11.4	13.2	21 17	23 9	20.4	12.5	14.5	22 39	25.1	21.4	
23	6.8	7.8	15 53	6	5	7.9	1 17	18 8	6	0	5 18	43	9	6	1	8 20	7 23.1	6	3	1 21	30	24.2	6	4	4 22	53	4	6			
24	7	7	16 3	9	7	8	0 17	29	21.1	7	8.9	3 18	55	22.2	7	0	6 20	20	4	7	1	0 21	44	5	8	2	3 23	8	7	8	
25	5	5	16 14	20.2	9	6	8.9	17 41	4	9	8	2 19	7	5	9	9.9	5 20	33	7	9	0	12.8	21 58	8	9	1	2 23	23	26.0	9	
26	4	4	16 25	5	17.0	5	7 17	53	7	18.0	6	0 19	20	8	19.1	7	11.4	20 47	24.0	20.1	10.9	7 22	13 25.1	21.1	0	1 23	39	3	22.1		
27	6.2	2	16 37	8	2	7.4	6 18	6 22.0	2	5	9.9	19 34	23.1	2	6	2 21	1	3	2	7	6 22	29	4	3	11.8	0 23	55	6	3		
28	1	0	16 49	21.1	4	2	4 18	19	3	4	8.3	7 19	48	4	4	5	1 21	16	6	4	6	5 22	45	8	4	7	13.8	24 12	9	4	
29	0	6.9	17 2	4	6	1	2 18	33	6	6	2	6 20	3	7	6	9.3	0 21	32	9	6	4	12.3	23 1	126.1	6	6	7 24	29	27.2	6	
30	5.8	7	17 15	7	7	6.9	0 18	47	9	7	0	4 20	18	24.1	8	1	10.8	21 49	25.3	8	10.3	2 23	18	4	8	4	6 24	48	6	8	
31	6	5	17 29	22.0	9	7	7.9	19 2	23.2	9	7.9	2 20	34	4	20.0	0	6 22	6	6	21.0	1	0 23	37	7	22.0	11.3	4 25	7	9	23.0	
32	5	3	17 43	4	18.1	6	7 19	17	6	19.1	7	1 20	51	8	2	8.8	5 22	24	9	2	0	11.9	23 56	27.1	2	1	13.3	25 27	28.3	2	
33	3	1	17 58	7	3	4	5 19	34	9	3	5	8.9	21	8	25.1	4	7	3 22	42	26.3	4	9.8	7 24	15	5	4	0	1 25	48	6	4
34	1	5.9	18 14	23.1	5	3	3 19	51	24.3	5	4	7 21	27	5	6	5	1 23	2	7	6	6	6 24	36	9	6	10.8	0 26	10	29.0	6	
35	4.9	7	18 31	5	7	1	1 20	9	7	7	2	5 21	47	9	8	3	0 23	23	27.1	8	5	4 24	58	28.3	8	6	12.8	26 33	4	8	
36	7	5	18 49	9	9	5.9	6.9	20 28	25.1	9	0	3 22	7	26.3	21.0	1	9.8	23 45	5	22.0	3	2 25	22	7	23.0	4	6 26	58	9	24.0	
37	5	2	19 8	24.3	19.2	7	7 20	49	5	20.2	6.8	1 22	29	8	2	7.9	6 24	8	9	2	1	0 25	46	29.1	2	3	5 27	23	0.3	2	
38	3	0	19 28	8	4	5	4 21	10	26.0	4	6	7.9	22 52	27.2	4	8	4 24	33	28.4	4	8.9	10.8	26 12	6	4	1	3 27	51	7	4	
39	1	4.7	19 49	25.2	6	3	2 21	33	4	6	4	7 23	16	7	6	6	2 24	59	8	7	7	6 26	40	π	7	9.9	1 28	20	1.2	7	
40	3.9	5	20 12	7	8	1	0 21	57	9	9	2	5 23	42	28.1	9	4	0 25	26	29.3	9	5	5 27	9	0.5	9	7	0 28	51	7	9	
41	7	2	20 36	26.2	20.1	4.9	5.7	22 24	27.4	21.1	0	2 24	10	6	22.1	2	8.8	25 56	8	23.1	3	3 27	41	1.0	24.2	5	11.8	29 24	2.2	25.2	
42	5	3.9	21 2	7	4	7	4 22	52	9	4	5.8	6.9	24 40	29.1	4	0	5 26	28	π	0.4	4	1	1 28	14	6	4	3	5 29	59	7	4
43	3	6	21 30	27.2	6	4	1 23	22	28.5	6	6	6 25	12	7	7	6.7	2 27	2	9	7	7.9	9.8	28 50	2.1	7	1	3	0 36	3.3	7	
44	0	3	22 0	8	9	2	4.8	23 54	29.1	9	3	3 25	47	0.3	9	5	7.9	27 38	1.5	24.0	6	5 29	28	7	25.0	8.8	1	1 16	9	26.0	
45	2.8	2.9	22 33	28.4	21.2	3.9	5 24	29	7	22.2	0	0 26	24	9	23.2	2	6 28	18	2.1	3	4	2 0 10	3.3	3	5	10.8	2 0	4.5	3		
46	5	5	23 8	29.0	5	6	2 25	7	π	0.3	5	4.8	5.7	27	5	1.5	5.9	3 29	0	8	6	1	8.9	0.54	4.0	6	3	6 24	6	5.2	
47	2	1	23 46	7	8	3	3.8	25 48	1.0	9	5	4 27	48	2.2	9	6	0 29	47	3.4	9	6.8	6 14	3	7	9	0	3 33	7	9	9	
48	1.8	1.7	24 28	π	0.4	22.2	0	4 26	33	7	2	0 28	36	9	24.2	3	6.7	0 37	4.1	25.2	5	3 2 35	5.4	26.2	7.7	0	4 32	6.6	27.2		
49	5	3	25 15	1.1	5	2.7	0 27	23	2.4	5	3.9	4.6	29 28	3.6	6	0	3 1 32	8	6	2	0 3 33	6.1	6	4	9.7	5 32	7.3	6			
50	2	0.8	26 6	9	9	4	2.5	28 18	3.2	9	6	2 0 26	4.4	9	4.7	5.9	2 33	5.6	9	5.9	7.6	4 37	9	9	1	3 6 38	8.1	9			
51	0.8	3	27 3	2.7	23.3	1	0 29	18	4.0	24.3	2	3.7	1 31	5.2	25.3	3	5 3 40	6.5	26.3	6	2 5 47	7.7	27.3	6.8	8.9	7 50	9	28.3			
52		♁	29.7	28 7	3.6	7	1.7	1.5	0 26	9	7	2.8	2 2 42	6.1	7	0	0 4 55	7.4	7	2	6.8	7 4	8.6	7	4	5 9	10	9.8	7		
53	1	1	29 18	4.6	24.1	3	0.9	1 42	5.8	25.1	4	2.6	4 2	7.1	26.1	3.7	4.5	6 18	8.3	27.1	4.5	3 8 30	9.6	28.1	0	0 10	39	10.8	29.1		
54	29.7	28.4	0 40	5.6	6	0.9	2 3 8	6.8	6	0	0	0 5 32	8.2	6	3	3.9	7 51	9.4	6	4	5.7	10 7	10.6	6	5.6	7.5	12 19	11.8	6		
55	2	2.7	2 13	6.7	25.1	4	29.5	4 46	8.0	26.1	1.6	1.3	7 14	9.2	27.1	2.8	2 9 37	10.5	28.1	0	1 11	56	11.7	29.1	2	6.9	14 10	12.9	0.1		
56	28.7	26.9	4 0	8.0	7	29.8	28.7	6 38	9.2	7	1	0.5	9 10	10.4	7	2	2.4	11 38	11.8	7	3.5	4.4	13 59	13.0	7	4.8	3 16	15	14.1	7	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 19 9 26 } $\frac{1}{2}$ ARC 287° 21'.5 } 16°					H. M. S. 19 13 44 } $\frac{1}{2}$ 17° 288° 25'.9 }					H. M. S. 19 18 1 } $\frac{1}{2}$ 18° 289° 30'.2 }					H. M. S. 19 22 18 } $\frac{1}{2}$ 19° 290° 34'.4 }					H. M. S. 19 26 34 } $\frac{1}{2}$ 20° 291° 38'.4 }					H. M. S. 19 30 49 } $\frac{1}{2}$ 21° 292° 42'.4 }											
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3						
Lat.	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎						
22	12.5	14.5	22.39	25.1	21.4	13.6	15.8	24.1	26.2	22.4	14.8	17.1	25.22	27.3	23.4	15.9	18.4	26.43	28.4	24.4	17.0	19.7	28.3	29.5	25.4	18.1	21.1	29.23	0.6	26.4						
23	4	4	22.53	4	6	5	7	24.16	5	6	6	0	25.38	6	6	8	4	26.59	7	6	16.9	7	28.20	8	6	0	0	29.41	9	5						
24	2	3	23.8	7	8	4	6	24.31	8	8	5	16.9	25.54	9	7	6	3	27.16	29.0	7	8	6	28.38	0.1	7	17.9	20.9	29.59	1.2	7						
25	1	2	23.23	26.0	9	2	5	24.47	27.1	9	4	9	26.11	28.2	9	5	2	27.34	3	9	6	5	28.56	4	9	8	9	0	18	5	9					
26	0	1	23.39	3	22.1	1	15.4	25.4	4	23.1	14.3	8	26.28	5	24.1	15.4	1	27.52	6	25.1	5	5	29.15	7	26.1	7	8	0	37	8	27.0					
27	11.8	0	23.55	6	3	0	3	25.21	7	3	1	7	26.46	9	3	3	0	28.10	Π	2	16.4	19.4	29.34	1.1	2	5	7	0	58	2.2	2					
28	7	13.8	24.12	9	4	12.8	2	25.38	28.0	4	0	6	27.4	29.2	4	1	17.9	28.30	0.3	4	3	3	29.55	4	4	17.4	7	1	19	5	4					
29	6	7	24.29	27.2	6	7	1	25.57	4	6	13.8	16.5	27.24	5	6	0	8	28.50	6	6	1	2	0	16	7	6	3	20.6	1	40	9	6				
30	4	6	24.48	6	8	5	14.9	26.16	7	8	7	3	27.44	8	8	14.8	7	29.11	1.0	8	0	1	0	38	2.1	8	1	5	2	3	3.2	7				
31	11.3	4	25.7	9	23.0	4	8	26.36	29.1	24.0	5	2	28.5	0.2	25.0	7	6	29.33	3	26.0	15.8	0	1	0	5	9	0	4	2	27	6	9				
32	1	13.3	25.27	28.3	2	12.2	7	26.57	4	2	4	1	28.27	5	2	5	5	29.56	7	2	7	18.9	1	24	8	27.1	16.8	4	2	52	9	28.1				
33	0	1	25.48	6	4	1	6	27.20	8	4	2	0	28.50	9	4	4	17.4	0	20	2.1	4	5	8	1	49	3.2	3	7	20.3	3	18	4.3	3			
34	10.8	0	26.10	29.0	6	0	14.4	27.43	Π	0.2	6	1	15.9	29.15	1.3	6	14.2	3	0	46	5	6	4	7	2	16	6	5	5	2	3	45	7	5		
35	6	12.8	26.33	4	8	11.9	3	28.7	6	8	12.9	7	29.40	7	8	1	2	1	12	9	8	2	6	2	43	4.0	7	4	1	4	13	5.1	7			
36	4	6	26.58	9	24.0	7	1	28.33	1.0	25.0	7	6	0	7	2.2	26.0	0	1	140	3.3	27.0	0	5	3	12	4	9	16.2	0	4	43	6	9			
37	3	5	27.23	0.3	2	5	0	29.0	5	2	5	4	0	35	6	2	13.8	16.9	2	9	7	2	14.9	18.4	3	43	9	28.2	1	19.9	5	15	6.0	29.2		
38	1	3	27.51	7	4	3	13.8	29.28	9	4	4	15.3	1	5	3.1	4	6	8	2	40	4.2	4	8	3	4	15	5.3	4	0	8	5	48	5	4		
39	9.9	1	28.20	1.2	7	1	6	29.59	2.4	7	2	1	1	37	5	7	4	6	3	13	7	6	6	2	4	49	8	6	15.8	7	6	23	7.0	6		
40	7	0	28.51	7	9	10.9	5	0	31	9	9	0	0	2	10	4.0	9	2	5	3	48	5.2	9	4	0	5	25	6.3	9	6	6	7	0	5	8	
41	5	11.8	29.24	2.2	25.2	7	3	1	6	3.4	26.2	11.8	14.8	2	46	5	27.1	0	3	4	25	7	28.1	2	17.9	6	3	8	29.1	4	19.5	7	39	8.0	0.1	
42	3	5	29.59	7	4	5	1	1	42	9	4	6	6	3	24	5.1	4	12.8	1	5	4	6.2	4	0	7	6	43	7.4	4	2	4	8	21	5	3	
43	1	3	0	36	3.3	7	2	12.9	2	21	4.5	7	4	4	5	7	7	6	15.9	5	46	8	7	13.8	5	7	27	8.0	6	0	3	9	5	9.1	6	
44	8.8	1	1	16	9	26.0	0	7	3	3	5.1	27.0	1	2	4	48	6.3	3	7	6	31	7.4	9	5	4	8	13	6	9	14.8	1	9	53	7	9	
45	5	10.8	2	0	4.5	3	9.7	4	3	48	7	3	10.9	0	5	35	9	3	1	5	7	20	8.0	29.2	3	3	9	3	9.2	0.2	6	18.9	10	44	10.3	1.2
46	3	6	2	46	5.2	6	4	2	4	37	6.4	6	7	13.8	6	25	7.5	6	11.9	3	8	12	7	5	1	1	9	56	8	5	3	7	11	38	11.0	5
47	0	3	3	37	9	9	2	11.9	5	29	7.0	9	4	6	7	19	8.2	9	7	1	9	8	9.4	8	12.9	16.9	10	53	10.5	8	1	5	12	37	6	8
48	7.7	0	4	32	6.6	27.2	8.9	6	6	26	7	28.2	1	3	8	18	9	29.2	4	14.9	10	8	10.1	0.2	6	7	11	55	11.2	1.1	13.8	3	13	41	12.3	2.1
49	4	9.7	5	32	7.3	6	6	3	7	28	8.5	5	9.8	0	9	22	9.6	5	1	7	11	14	8	5	3	5	13	2	9	5	5	1	14	49	13.1	5
50	1	3	6	38	8.1	9	3	0	8	36	9.2	9	5	12.7	10	32	10.4	9	10.8	4	12	25	11.6	9	0	2	14	16	12.7	9	2	17.9	16	4	8	8
51	6.8	8.9	7	50	9	28.3	0	10.6	9	51	10.1	29.3	2	4	11	49	11.2	0.3	5	1	13	44	12.4	1.3	11.7	15.9	15	36	13.5	2.2	12.8	7	17	25	14.6	3.2
52	4	5	9	10	9.8	7	7.6	2	11	14	11.0	7	8.9	0	13	13	12.1	7	1	13.8	15	10	13.3	7	4	6	17	3	14.4	6	5	4	18	53	15.5	6
53	0	0	10	39	10.8	29.1	3	9.8	12	45	9	0.1	5	11.6	14	46	13.1	1.1	9.7	5	16	45	14.2	2.1	0	3	18	39	15.3	3.0	2	1	20	30	16.5	4.0
54	5.6	7.5	12	19	11.8	6	6.9	3	14	26	12.9	6	1	2	16	29	14.1	6	3	1	18	29	15.2	6	10.6	0	20	25	16.4	5	11.8	16.8	22	17	17.5	5
55	2	6.9	14	10	12.9	0.1	4	8.8	16	19	14.0	1.1	7.7	10.7	18	24	15.2	2.1	8.9	12.7	20	25	16.3	3.1	2	14.6	22	22	17.5	4.0	4	5	24	15	18.6	5.0
56	4.8	3	16	15	14.1	7	0	2	18	27	15.2	7	3	2	20	33	16.4	6	5	2	22	35	17.5	6	9.8	2	24	33	18.7	5	0	1	26	26	19.8	5

UPPER MERIDIAN, CUSP OF 10th H.

H. M. S. SID. T. 19 35 5 } 1/3 ARC 293° 46'.2 } 22°					H. M. S. 19 39 19 } 1/3 23° 294° 49'.8 } 23°					H. M. S. 19 43 33 } 1/3 24° 295° 53'.3 } 24°					H. M. S. 19 47 47 } 1/3 25° 296° 56'.7 } 25°					H. M. S. 19 51 59 } 1/3 26° 297° 59'.9 } 26°					H. M. S. 19 56 12 } 1/3 27° 299° 2'.9 } 27°						
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
Lat.	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♊	♋	♌	♍	♎	♏	♊	♋	♌	♍	♎	♏	♐	♑	♒	
22	19.3	22.4	0 42	1.7	27.4	20.4	23.7	2 1	2.8	28.3	21.5	25.0	3 19	3.8	29.3	22.7	26.3	4 36	4.9	0.3	23.8	27.5	5 53	6.0	1.2	24.9	28.5	7 9	7.0	2.2	
23	2	3	1 1	2.0	5	3	6	2 20	3.1	5	4 24.9	3 38	4.2	5	6	2	4 56	5.2	4	7	5	6 13	3	4	8	8	7 30	3	4		
24	0	3	1 20	3	7	2	6	2 39	4	7	3	9	3 58	5	6	5	2	5 17	5	6	6	5	6 35	6	6	7	8	7 52	6	5	
25	18.9	2	1 39	6	8	1	5	3 0	7	8	2	9	4 19	8	8	4	2	5 38	9	8	5	5	6 57	9	7	6	8	8 14	9	7	
26	8	22.2	1 59	9	28.0	19.9	5	3 20	4.0	29.0	1	8	4 41	5.1	22.2	26.2	6 0	6.2	9	23.4	5	7 19	7.2	9	5	8	8 37	8.2	9		
27	7	1	2 20	3.3	2	8	23.4	3 42	4	2	0	8	5 3	4	0.1	1	1	6 23	5	1.1	3	27.5	7 43	6	2.1	24.4	28.8	9 1	5	3.0	
28	5	0	2 42	6	4	7	4	4 4	7	3	20.8	24.8	5 26	8	3	0	1	6 47	9	3	1	4	8	7	9	2	8	9 26	9	2	
29	18.4	0	3 4	4.0	5	6	3	4 28	5.0	5	7	7	5 50	6.1	5	21.9	1	7 12	7.2	4	0	4	8 32	8.3	4	2	8	9 52	9.3	4	
30	3	21.9	3 28	3	7	19.4	3	4 52	4	7	6	7	6 15	5	7	7	26.0	7 37	6	6	22.9	4	8 58	6	6	1	8	10 19	7	6	
31	1	8	3 52	7	9	3	2	5 17	8	9	4	6	6 41	8	8	6	0	8 4	9	8	8	4	9 26	9.0	8	23.9	8	10 47	10.1	7	
32	0	8	4 18	5.0	29.1	1	23.2	5 43	6.1	0.1	20.3	6	7	8	7.2	1.0	5	0	8 31	8.3	2.0	6	27.3	9 54	4	3.0	8	28.7	11 16	5	9
33	17.8	7	4 45	4	3	0	1	6 11	5	3	2	24.5	7 36	6	2	21.4	25.9	9 1	7	2	5	3	10 24	8	2	7	7	11 46	9	4.1	
34	7	21.6	5 13	8	5	18.8	0	6 40	9	5	0	5	8	6	8.0	4	2	9	9 31	9.1	4	22.4	3	10 55	10.2	4	5	7	12 18	11.3	3
35	5	5	5 42	6.2	7	7	0	7 10	7.3	7	19.9	4	8 37	4	6	1	8	10 3	5	6	3	3	11 28	6	6	23.4	7	12 51	7	5	
36	4	4	6 13	7	9	5	22.9	7 42	8	9	7	4	9 10	9	8	20.9	8	10 36	9	8	2	3	12	2 11.0	8	3	7	13 26	12.1	7	
37	2	4	6 45	7.1	0.1	4	8	8 15	8.2	1.1	6	3	9 44	9.3	2.1	8	8	11 11	10.4	3.0	0	27.2	12 38	5	4.0	2	28.7	14 3	5	9	
38	0	21.3	7 20	6	3	2	7	8 50	7	3	4	24.2	10 20	8	3	6	25.7	11 48	9	2	21.9	2	13 15	9	2	0	7	14 41	13.0	5.1	
39	16.9	2	7 56	8.1	6	0	7	9 27	9.2	5	19.2	2	10 58	10.3	5	5	7	12 27	11.3	5	7	2	13 55	12.4	4	22.9	7	15 21	5	4	
40	7	1	8 34	6	8	17.9	6	10 6	7	8	1	1	11 38	8	7	3	6	13 7	8	7	5	1	14 36	9	7	7	6	16 3	14.0	6	
41	5	0	9 14	9.1	1.1	7	22.5	10 48	10.2	2.0	0	0	12 20	11.3	3.0	1	6	13 51	12.4	9	3	27.1	15 20	13.4	9	5	6	16 48	5	9	
42	3	20.8	9 57	6	3	5	4	11 32	7	3	18.8	0	13 4	8	3	19.9	25.5	14 36	9	4.2	1	1	16	6 14.0	5.1	4	28.6	17 35	15.1	6.1	
43	1	7	10 43	10.2	6	4	3	12 18	11.3	6	6	23.9	13 52	12.4	5	7	5	15 25	13.5	5	20.9	0	16 56	6	4	2	6	18 25	7	4	
44	15.9	6	11 31	8	9	2	2	13 8	9	8	4	8	14 43	13.0	8	5	4	16 16	14.1	8	8	0	17 48	15.2	7	0	6	19 18	16.3	7	
45	7	4	12 24	11.4	2.2	0	1	14 11	12.5	3.1	1	7	15 37	6	4.1	3	3	17 11	7	5.1	6	26.9	18 43	8	6.0	21.8	6	20 14	9	7.0	
46	4	20.3	13 19	12.1	5	16.8	21.9	14 58	13.2	4	17.9	6	16 35	14.2	4	1	25.2	18 10	15.3	4	4	9	19 43	16.4	3	5	5	21 14	17.5	3	
47	2	2	14 19	7	8	6	8	15 59	8	7	7	5	17 37	9	7	18.9	2	19 12	16.0	7	2	8	20 46	17.1	6	3	28.5	22 18	18.2	6	
48	0	1	15 24	13.4	3.1	3	7	17 4	14.5	4.1	5	23.4	18 43	15.6	5.0	6	1	20 20	7	6.0	0	8	21 54	8	9	1	5	23 27	9	9	
49	14.7	19.9	16 33	14.2	4	0	5	18 15	15.3	4	2	3	19 55	16.3	4	4	0	21 32	17.4	3	19.7	26.7	23 7	18.5	7.2	20.9	5	24 40	19.6	8.2	
50	4	7	17 49	9	8	15.7	21.4	19 32	16.0	7	16.9	2	21 12	17.1	7	1	24.9	22 50	18.2	6	4	7	24 26	19.3	6	6	4	25 59	20.3	5	
51	1	5	19 11	15.7	4.2	4	3	20 55	8	5.1	6	1	22 36	9	6.1	17.8	8	24 15	19.0	7.0	1	6	25 51	20.1	9	3	4	27 24	21.1	9	
52	13.8	3	20 41	16.6	6	1	1	22 25	17.7	5	3	22.9	24 7	18.8	5	5	7	25 46	9	4	18.8	5	27 22	9	8.3	0	28.3	28 56	9	9.3	
53	4	1	22 18	17.6	5.0	14.8	20.9	24 3	18.7	9	15.9	7	25 46	19.7	9	2	6	27 25	20.8	8	5	26.4	29 1	21.8	8	19.7	3	0 35	22.8	7	
54	1	18.8	24 6	18.6	4	4	7	25 51	19.7	6.4	6	5	27 33	20.7	7.3	16.9	24.4	29 13	21.8	8.3	2	3	0 49	22.8	9.2	4	2	2 22	23 8	10.1	
55	12.7	5	26 4	19.7	9	13.9	4	27 50	20.7	9	2	3	29 32	21.8	8	5	3	1 10	22.9	7	17.8	3	2 46	23 9	7	1	2	4 19	24.9	6	
56	3	2	28 15	20.9	6.4	5	1	0 0	21.9	7.4	14.8	1	1 41	23.0	8.3	1	1	3 19	24 0	9.2	5	2	4 54	25.0	10.2	18.7	2	6 25	26.1	11.1	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 19 56 12 } 27° ARC 299° 2'9 } 27°					H. M. S. 20 0 23 } 28° 300° 5'8 } 28°					H. M. S. 20 4 34 } 29° 301° 8'5 } 29°					H. M. S. 20 8 44 } 0° 302° 11'1 } 0°					H. M. S. 20 12 54 } 1° 303° 13'4 } 1°					H. M. S. 20 17 3 } 2° 304° 15'6 } 2°										
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
22	24.9	28.8	7	9	7.0	2.2	26.1	0.1	8	24	8.0	3.2	27.2	1.4	9	38	9.1	4.1	28.4	2.7	10	52	10.1	5.1	29.5	4.0	12	5	11.1	6.0	0.7	5.2	13	18	12.1	7.0	
23	8	8	7	30	3	4	0	1	8	45	3	3	1	4	10	1	4	3	3	7	11	15	4	2	4	0	12	28	4	2	6	3	13	41	4	1	
24	7	8	7	52	6	5	25.9	1	9	8	6	5	0	4	10	23	7	4	2	7	11	38	7	4	3	0	12	52	7	4	5	3	14	6	8	3	
25	6	8	8	14	9	7	8	1	9	31	9	7	26.9	4	10	47	10.0	6	1	7	12	2	11.1	5	2	1	13	17	12.1	5	4	3	14	31	13.1	5	
26	5	8	8	37	8.2	9	7	1	9	55	9.2	8	8	4	11	11	3	8	0	2.8	12	27	4	7	1	1	13	42	4	7	0.3	5.4	14	56	4	6	
27	24.4	28.8	9	1	5	3.0	6	0.1	10	19	5	4.0	7	1.5	11	36	6	9	27.9	8	12	53	7	9	0	4.1	14	8	7	8	2	4	15	23	8	8	
28	3	8	9	26	9	2	5	1	10	45	9	2	6	5	12	2	11.0	5.1	8	8	13	19	12.1	6.0	28.9	2	14	35	13.1	7.0	1	5	15	51	14.1	8.0	
29	2	8	9	52	9.3	4	25.3	1	11	11	10.3	3	5	5	12	29	4	3	7	8	13	47	4	2	8	2	15	3	4	2	0	5	16	19	5	1	
30	1	8	10	19	7	6	2	1	11	39	7	5	26.4	5	12	57	8	5	6	2.9	14	15	8	4	7	2	15	32	8	4	29.9	5.6	16	49	8	3	
31	23.9	8	10	47	10.1	7	1	1	12	7	11.1	7	3	5	13	26	12.2	6	5	9	14	45	13.2	6	6	3	16	3	14.2	5	8	6	17	19	15.2	5	
32	8	28.7	11	16	5	9	0	0.1	12	37	5	9	2	1.5	13	57	6	8	27.4	9	15	16	5	8	5	4.3	16	34	6	7	7	7	17	51	6	7	
33	7	7	11	46	9	4.1	24.8	1	13	8	9	5.1	0	5	14	28	13.0	6.0	2	9	15	48	9	7.0	28.4	3	17	6	15.0	9	6	7	18	24	16.0	9	
34	5	7	12	18	11.3	3	7	1	13	40	12.3	3	25.9	5	15	1	4	2	1	3.0	16	21	14.4	2	3	4	17	40	4	8.1	5	5.8	18	59	4	9.0	
35	23.4	7	12	51	7	5	6	1	14	14	7	5	8	6	15	36	8	4	0	0	16	56	8	4	2	4	18	16	8	3	29.4	8	19	34	8	2	
36	3	7	13	26	12.1	7	5	1	14	49	13.1	7	7	6	16	12	14.2	6	26.9	0	17	33	15.2	6	1	5	18	53	16.2	5	2	9	20	12	17.2	4	
37	2	28.7	14	3	5	9	24.4	0.1	15	27	6	9	6	1.6	16	49	6	8	7	1	18	11	7	8	0	4.5	19	32	7	7	1	9	20	51	7	7	
38	0	7	14	41	13.0	5.1	2	1	16	5	14.1	6.1	25.4	6	17	29	15.1	7.0	6	1	18	51	16.1	8.0	27.9	6	20	12	17.2	9	0	6.0	21	32	18.2	9	
39	22.9	7	15	21	5	4	1	1	16	46	5	3	3	6	18	10	6	3	4	3.1	19	33	6	2	7	6	20	55	6	9.2	28.8	1	22	15	6	10.1	
40	7	6	16	3	14.0	6	23.9	1	17	29	15.0	6	1	7	18	54	16.1	5	26.3	2	20	17	17.1	5	5	7	21	39	18.1	4	7	1	23	0	19.1	3	
41	5	6	16	48	5	9	7	1	18	15	6	8	24.9	7	19	40	6	8	1	2	21	3	6	7	4	4	7	22	26	6	6	5	2	23	47	7	6
42	4	28.6	17	35	15.1	6.1	6	0.1	19	2	16.1	7.1	8	1.7	20	28	17.2	8.0	0	2	21	52	18.2	9	2	8	23	15	19.2	9	3	6.3	24	37	20.2	8	
43	2	6	18	25	7	4	4	2	19	54	7	4	6	7	21	19	8	3	25.8	3	22	44	7	9.2	0	8	24	7	8	10.2	2	4	25	29	7	11.1	
44	0	6	19	18	16.3	7	2	2	20	46	17.3	6	4	8	22	13	18.4	6	6	3.3	23	39	19.3	5	26.8	9	25	2	20.3	4	1	5	26	25	21.3	4	
45	21.8	6	20	14	9	7.0	0	2	21	43	9	9	2	8	23	11	19.0	9	4	4	24	37	9	7	6	5.0	26	1	9	7	27.9	6	27	23	9	6	
46	5	5	21	14	17.5	3	22.8	2	22	44	18.5	8.2	0	8	24	12	6	9.1	2	4	25	38	20.6	10.0	4	1	27	3	21.6	11.0	7	6.7	28	25	22.6	9	
47	3	28.5	22	18	18.2	6	6	0.2	23	48	19.2	5	23.8	1.8	25	17	20.3	4	0	5	26	43	21.2	3	3	1	28	8	22.2	3	5	8	29	31	23.2	12.2	
48	1	5	23	27	9	9	4	2	24	57	9	8	6	9	26	26	21.0	7	24.8	5	27	53	9	7	1	2	29	18	9	6	3	9	0	41	9	5	
49	20.9	5	24	40	19.6	8.2	2	2	26	11	20.6	9.1	4	9	27	40	7	10.1	6	3.6	29	7	22.6	11.0	25.9	3	0	32	23.6	9	1	7.0	1	55	24.6	8	
50	6	4	25	59	20.3	5	21.9	2	27	31	21.3	5	1	9	29	0	22.4	4	4	6	0	26	23.4	3	6	5.4	1	51	24.4	12.3	26.9	1	3	14	25.3	13.2	
51	3	4	27	24	21.1	9	6	2	28	56	22.1	8	22.8	2.0	0	25	23.2	8	1	7	1	52	24.2	7	4	5	3	16	25.2	6	7	2	4	39	26.1	5	
52	0	28.3	28	56	9	9.3	3	0.2	0	27	23.0	10.2	5	0	1	56	24.0	11.2	23.9	8	3	23	25.0	12.1	2	6	4	47	26.0	13.0	4	3	6	10	9	9	
53	19.7	3	0	35	22.8	7	0	2	2	6	9	6	2	1	3	35	9	6	6	9	5	1	9	5	24.9	7	6	25	9	4	2	7.5	7	47	27.8	14.3	
54	4	2	22	23.8	10.1	20.7	2	3	53	24.9	11.1	21.9	1	5	21	25.9	12.0	3	4.0	6	46	26.9	9	6	8	8	9	27.8	8	25.9	7	9	31	28.8	7		
55	1	2	4	19	24.9	6	4	2	5	49	25.9	5	7	2	7	16	26.9	4	0	1	8	40	27.9	13.3	3	6.0	10	2	28.9	14.2	6	9	11	22	29.9	15.1	
56	18.7	2	6	25	26.1	11.1	1	2	7	54	27.0	12.0	3	2	9	20	28.0	9	22.6	2	10	43	29.0	8	0	2	12	4	26	7	3	8.1	13	22	1.0	6	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H.	H. M. S. } $\approx 3^\circ$					H. M. S. } $\approx 4^\circ$					H. M. S. } $\approx 5^\circ$					H. M. S. } $\approx 6^\circ$					H. M. S. } $\approx 7^\circ$					H. M. S. } $\approx 8^\circ$									
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
Lat.	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌
22	1.8	6.5	14.30	13.1	7.9	3.0	7.8	15.41	14.1	8.9	4.1	9.1	16.51	15.1	9.8	5.3	10.3	18.1	16.1	10.7	6.4	11.6	19.11	17.1	11.7	7.5	12.8	20.20	18.0	12.6					
23	7	6	14.54	4	8.1	2.9	8	16.5	4	9.0	0	1	17.16	4	10.0	2	4	18.27	4	9	3	6	19.36	4	8	5	9	20.45	4	7					
24	7	6	15.18	8	2	8	9	16.30	8	2	0	2	17.42	7	1	1	4	18.52	7	11.0	3	7	20.2	7	12.0	4	13.0	21.12	7	9					
25	6	7	15.44	14.1	4	7	9	16.56	15.1	3	3.9	2	18.8	16.1	3	0	5	19.19	17.1	2	2	8	20.29	18.0	1	3	1	21.39	19.0	13.1					
26	5	7	16.10	4	6	6	8	0.17	23	4	5	8	3	18.35	4	4	0	6	19.47	4	4	6.1	9	20.57	4	3	3	3	22.7	3	2				
27	1.4	6.8	16.37	8	7	2.5	1	17.50	8	7	7	9.4	19.3	8	10.6	4.9	10.7	20.15	7	5	0	12.0	21.26	7	5	7.2	3	22.36	7	4					
28	3	8	17.5	15.1	9	5	1	18.19	16.1	8	6	4	19.32	17.1	8	8	8	20.44	18.1	7	0	1	21.55	19.1	6	1	4	23.6	20.0	5					
29	2	9	17.34	5	9.1	4	2	18.48	5	10.0	5	5	20.2	5	9	7	8	21.14	4	9	5.9	1	22.26	4	8	0	13.5	23.37	4	7					
30	1	9	18.4	8	2	3	2	19.19	8	2	3.4	6	20.32	8	11.1	6	9	21.45	8	12.0	8	2	22.57	8	13.0	0	6	24.9	8	9					
31	0	7.0	18.35	16.2	4	2.2	8.3	19.50	17.2	4	3	9.7	21.4	18.2	3	5	11.0	22.18	19.2	2	7	3	23.30	20.2	1	6.9	7	24.41	21.1	14.1					
32	0.9	0	19.8	6	6	1	4	20.23	6	5	2	7	21.37	6	5	4.4	1	22.51	6	4	6	12.4	24.4	5	3	8	8	25.15	5	2					
33	8	1	19.41	17.0	8	0	5	20.57	18.0	7	1	8	22.11	19.0	7	3	2	23.25	20.0	6	5	5	24.39	9	5	7	9	25.51	9	4					
34	7	1	20.16	4	10.0	1.8	5	21.32	4	9	0	9	22.47	4	8	2	3	24.1	4	8	5.4	7	25.15	21.3	7	6	14.0	26.27	22.3	6					
35	5	2	20.52	8	2	7	8.6	22.8	8	11.1	2.9	10.0	23.24	8	12.0	1	4	24.39	8	13.0	3	8	25.52	8	9	5	2	26.5	7	8					
36	0.4	7.3	21.30	18.2	4	6	7	22.46	19.2	3	8	1	24.3	20.2	2	0	11.5	25.17	21.2	2	2	9	26.31	22.2	14.1	6.4	3	27.44	23.2	15.0					
37	3	4	22.9	7	6	5	8	23.26	7	5	7	2	24.43	7	4	3.9	6	25.58	7	4	1	13.0	27.12	6	3	3	4	28.25	6	2					
38	2	4	22.50	19.2	8	1.4	9	24.8	20.2	7	6	3	25.25	21.2	7	8	8	26.40	22.2	6	0	2	27.55	23.1	5	2	14.6	29.8	24.1	4					
39	0	5	23.34	6	11.0	2	9	0.24	52	6	12.0	2.5	10.4	26.9	6	9	7	9	27.25	6	8	4.9	3	28.39	6	7	1	8	29.53	6					
40	29.9	7.6	24.19	20.1	3	1	1	25.38	21.1	2	3	6	26.55	22.1	13.1	5	12.0	28.11	23.1	14.0	8	5	29.26	24.1	15.0	0	9	0	40	25.0					
41	7	7	25.7	7	5	0	2	26.26	7	4	2	7	27.43	6	4	3.4	2	29.0	6	3	6	7	0	15	6	2	5.9	15.1	1	29					
42	6	8	25.57	21.2	8	0.8	4	27.17	22.2	7	0	9	28.34	23.2	6	3	3	29.50	24.1	5	5	8	1	6	25.1	4	7	3	2	20					
43	4	9	26.50	7	12.0	7	9.5	28.9	7	13.0	1.9	11.0	29.27	7	9	1	5	0	44	7	7	4.3	14.0	1	59	7	7	6	5	3					
44	29.3	8.1	27.46	22.3	3	5	6	29.5	23.3	2	7	2	0	23	24.3	14.1	0	7	1	40	25.3	15.0	2	2	2	55	26.2	9	4	7	4	9			
45	2	2	28.44	9	6	4	8	0	4	9	5	6	4	1	22	9	4	2.8	9	2	39	9	3	1	4	3	54	8	16.2	5.3	16.0	5	8		
46	0	3	29.47	23.5	9	2	9	1	6	24.5	8	5	5	2	25	25.5	7	7	13.1	3	41	26.5	6	0	7	4	57	27.4	5	2	2	6	11		
47	28.8	4	0	53	24.2	13.2	0	10.1	2	12	25.2	14.1	3	7	3	30	26.2	15.0	6	3	4	47	27.1	9	3.8	9	6	2	28.1	8	1	4	7	16	
48	6	8.6	2	2	9	5	29.8	3	3	22	9	4	1	9	4	40	8	3	5	5	5	57	8	16.2	6	15.2	7	12	7	17.1	4.9	7	8	25	
49	4	7	3	17	25.6	8	7	4	3	6	26.6	7	0.9	12.1	5	54	27.5	6	3	7	7	10	28.5	5	4	4	8	25	29.4	4	8	9	9	39	
50	2	8	4	36	26.3	14.1	5	5	5	55	27.3	15.0	7	2	7	13	28.3	9	0	9	8	29	29.2	8	3	6	9	43	0	2	7	6	17	2	
51	27.9	9.0	6	0	27.1	5	2	7	7	19	28.1	3	5	4	8	36	29.0	16.2	1.8	14.2	9	52	29	17.2	1	9	11	6	9	18.1	4	5	12	18	
52	7	2	7	30	9	8	0	9	8	49	9	7	3	7	10	5	8	6	6	5	11	20	0.8	5	2.9	16.2	12	33	1.7	4	2	9	13	45	
53	5	4	9	7	28.8	15.2	28.8	11.2	10	24	29.8	16.1	1	13.0	11	40	0	7	3	8	12	54	1.6	9	7	6	14	7	2.6	8	3.9	18.3	15	17	
54	2	6	10	50	29.8	6	5	5	12	6	0.7	5	29.8	3	13	21	1.6	4	1	15.2	14	34	2.5	18.3	4	17.0	15	46	3.5	19.2	7	8	16	56	
55	26.9	9	12	40	0.8	16.0	2	8	13	56	1.7	9	5	7	15	9	2.6	8	0.8	6	16	21	3.6	7	2	5	17	31	4.5	6	5	19	3	18	
56	6	10.2	14	38	1.8	5	27.9	12.1	15	53	2.8	17.4	2	14.1	17	5	3.7	18.3	6	16.1	18	15	4.7	19.2	1.9	18.0	19	24	5.6	20.0	3	9	20	31	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

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UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 20 41 41 } $\approx 8^\circ$ ARC 310° 25'.2					H. M. S. 20 45 44 } $\approx 9^\circ$ 311° 26'.1					H. M. S. 20 49 48 } $\approx 10^\circ$ 312° 26'.9					H. M. S. 20 53 50 } $\approx 11^\circ$ 313° 27'.5					H. M. S. 20 57 52 } $\approx 12^\circ$ 314° 27'.9					H. M. S. 21 1 53 } $\approx 13^\circ$ 315° 28'.1									
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3					
		♋	♌	♍	♎	♏	♋	♌	♍	♎	♏	♋	♌	♍	♎	♏	♋	♌	♍	♎	♏	♋	♌	♍	♎	♏	♋	♌	♍	♎	♏					
22	7.5	12.8	20.20	18.0	12.6	8.7	14.0	21.28	19.0	13.5	9.8	15.3	22.36	20.0	14.5	11.0	16.5	23.43	20.9	15.4	12.1	17.7	24.49	21.9	16.3	13.3	19.0	25.54	22.8	17.2						
23	5	9	20.45	4	7	6	1	21.54	3	7	8	4	23	2	3	6	10.9	6	24	9	21.2	5	1	9	25	15	22.2	4	2	1	26	21	23.1	4		
24	4	13.0	21.12	7	9	6	2	22.21	6	8	7	5	23	29	6	8	9	7	24	36	5	7	0	18.0	25	43	5	6	2	2	26	49	4	5		
25	3	1	21.39	19.0	13.1	5	3	22.48	20.0	14.0	7	6	23	57	9	9	8	9	25	4	9	8	11.9	1	26	11	8	7	1	3	27	18	8	7		
26	3	2	22	7	3	2	8.4	4	23	17	3	1	6	15.7	24	25	21.3	15.1	7	17.0	25	33	22.2	16.0	9	2	26	40	23.2	9	1	19.5	27	47	24.1	8
27	7.2	3	22	36	7	4	4	14.5	23	46	6	3	9.5	8	24	55	6	2	7	1	26	3	6	1	8	4	27	10	5	17.1	0	6	28	17	4	18.0
28	1	4	23	6	20.0	5	3	6	24	16	21.0	5	4	9	25	25	22.0	4	10.6	2	26	33	9	3	8	18.5	27	41	9	2	12.9	8	28	48	8	1
29	0	13.5	23	37	4	7	2	7	24	47	3	6	4	16.1	25	56	3	6	5	3	27	5	23.3	5	7	6	28	13	24.2	4	9	9	29	20	25.1	3
30	0	6	24	9	8	9	8.1	9	25	19	7	8	3	2	26	29	7	7	5	17.5	27	37	6	6	11.6	8	28	46	6	6	8	20.0	29	53	5	5
31	6.9	7	24	41	21.1	14.1	1	15.0	25	52	22.1	15.0	9.2	3	27	2	23.0	9	4	6	28	11	24.0	8	6	9	29	19	9	7	8	2	0	27	9	6
32	8	8	25	15	5	2	0	1	26	26	5	2	1	4	27	37	4	16.1	3	8	28	46	4	17.0	5	19.1	29	54	25.3	9	7	4	1	2	26.2	8
33	7	9	25	51	9	4	7.9	2	27	2	9	3	1	16.6	28	12	8	3	10.3	9	29	21	8	2	4	2	0	30	7	18.1	12.6	6	1	38	6	19.0
34	6	14.0	26	27	22.3	6	8	4	27	39	23.3	5	0	7	28	49	24.2	4	2	18.1	29	59	25.2	4	4	4	1	8	26.1	3	5	7	2	16	27.0	2
35	5	2	26	5	7	8	7	15.5	28	17	7	7	8.9	9	29	27	6	6	1	2	0	37	6	6	11.3	6	1	46	5	5	5	9	2	55	4	4
36	6.4	3	27	44	23.2	15.0	6	7	28	56	24.1	9	8	17.1	0	7	25.1	8	0	4	1	18	26.0	8	3	8	2	26	9	7	4	21.1	3	35	9	6
37	3	4	28	25	6	2	5	8	29	37	6	16.1	7	2	0	49	5	17.0	9.9	6	1	59	4	18.0	2	20.0	3	8	27.4	9	3	3	4	16	28.3	8
38	2	14.6	29	8	24.1	4	7.4	16.0	0	20	25.0	3	6	4	1	32	26.0	2	8	8	2	43	9	2	1	2	3	52	8	19.1	12.2	6	5	0	8	20.0
39	1	8	29	53	6	6	3	2	1	5	5	5	5	6	2	17	4	5	7	19.0	3	28	27.4	4	0	4	4	37	28.3	3	2	8	5	45	29.2	2
40	0	9	0	40	25.0	9	2	4	1	52	26.0	8	8.4	8	3	4	9	7	6	2	4	14	9	6	10.9	6	5	24	8	5	1	22.0	6	32	7	4
41	5.9	15.1	1	29	5	16.1	1	6	2	41	5	17.0	3	18.0	3	53	27.4	9	5	5	5	3	28.4	8	8	9	6	13	29.3	7	0	3	7	21	0.2	6
42	7	3	2	20	26.1	3	0	8	3	32	27.0	2	2	2	44	28.0	18.1	9.4	7	5	54	9	19.0	7	21.1	7	4	8	9	11.9	5	8	13	7	8	
43	6	5	3	13	6	6	6.8	17.0	4	26	6	5	1	4	5	38	5	4	3	9	6	48	29.4	3	6	3	7	58	0.3	20.2	8	8	9	6	1.3	21.1
44	4	7	4	9	27.2	8	7	2	5	22	28.2	7	7.9	7	6	34	29.1	6	2	20.1	7	44	30	5	5	6	8	54	9	4	7	23.1	10	2	8	3
45	5.3	16.0	5	8	8	17.1	5	5	6	21	7	18.0	8	9	7	33	7	9	0	4	8	43	0.6	8	10.4	9	9	52	1.5	7	6	3	11	0	2.4	6
46	2	2	6	11	28.4	4	4	7	7	24	29.3	3	6	19.2	8	35	0.3	19.1	8.9	7	9	45	1.2	20.1	3	22.2	10	54	2.1	21.0	5	6	12	2	3.0	9
47	1	4	7	16	29.0	7	6.3	18.0	8	29	30	6	5	5	9	40	9	4	8	21.0	10	50	8	3	1	5	11	59	7	2	11.4	9	13	6	6	22.1
48	4.9	7	8	25	7	18.0	2	3	9	38	0.6	9	7.4	8	10	49	1.5	7	7	3	11	59	2.4	6	0	9	13	7	3.3	5	3	24.3	14	14	4.2	4
49	8	9	9	39	0.4	3	0	6	10	51	1.3	19.2	3	20.1	12	1	2.2	20.0	5	7	13	10	3.1	9	9.8	23.3	14	18	4.0	8	1	7	15	25	9	7
50	6	17.2	10	56	1.1	6	5.8	9	12	8	2.0	5	1	5	13	18	9	3	8.4	22.1	14	26	8	21.2	7	7	15	34	7	22.1	0	25.2	16	40	5.6	23.0
51	4	5	12	18	8	19.0	6	19.3	13	29	7	8	6.9	9	14	38	3.6	6	2	5	15	46	4.5	5	5	24.1	16	53	5.4	4	10.8	7	17	58	6.3	4
52	2	9	13	45	2.6	3	4	7	14	55	3.5	20.1	7	21.3	16	4	4.4	21.0	0	23.0	17	11	5.3	9	3	6	18	17	6.2	7	6	26.2	19	21	7.1	7
53	3.9	18.3	15	17	3.5	6	2	20.1	16	27	4.4	5	6	8	17	34	5.3	4	7.9	5	18	41	6.1	22.2	1	25.1	19	45	7.0	23.1	5	8	20	49	9	24.0
54	7	8	16	56	4.4	20.0	0	6	18	4	5.3	9	4	22.3	19	10	6.2	8	7	24.1	20	16	7.0	6	0	7	21	19	9	5	3	27.4	22	22	8.7	3
55	5	19.3	18	40	5.3	4	4.8	21.1	19	47	6.2	21.3	2	9	20	52	7.1	22.2	5	7	21	56	9	23.0	8.9	26.4	22	59	8.8	9	2	28.1	24	0	9.6	7
56	3	9	20	31	6.4	9	6	7	21	36	7.2	8	0	23.6	22	40	8.1	6	3	25.4	23	43	8.9	4	7	27.2	24	44	9.8	24.4	0	9	25	43	10.6	25.1

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 21 5 53 } $\approx$ 14° ARC 316° 28'.2					H. M. S. 21 9 52 } $\approx$ 15° 317° 28'.0					H. M. S. 21 13 51 } $\approx$ 16° 318° 27'.7					H. M. S. 21 17 49 } $\approx$ 17° 319° 27'.2					H. M. S. 21 21 46 } $\approx$ 18° 320° 26'.6					H. M. S. 21 25 43 } $\approx$ 19° 321° 25'.7								
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3				
	°	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌	♈	♉	♊	♋	♌				
22	14.4	20.2	26.59	23.7	18.1	15.5	21.4	28.4	24.7	19.0	16.7	22.6	29.8	25.6	19.9	17.8	23.7	0.11	26.5	20.9	19.0	24.9	1.14	27.4	21.8	20.1	26.1	2.16	28.3	22.7					
23	3	3	27.27	24.0	3	5	5	28.31	25.0	2	6	7	29.35	9	20.1	8	9	0.39	8	21.0	18.9	25.1	1.42	7	9	1	3	2.44	6	8					
24	3	4	27.55	4	4	4	6	28.59	3	3	6	9	0.4	26.2	2	7	24.1	1	7	27.1	1	9	2	2.10	28.1	22.0	0	4	3.13	29.0	23.0				
25	2	6	28.23	7	6	4	8	29.28	6	5	6	23.0	0.33	6	4	7	2	1.36	5	3	9	4	2.40	4	2	0	6	3.42	3	1					
26	2	7	28.53	25.0	7	15.3	9	29.58	26.0	6	5	2	1	3	9	5	7	4	2	6	8	4	8	6	3.10	7	3	0	8	4.12	6	3			
27	14.1	9	29.23	4	9	3	22.1	0.28	3	8	16.5	3	1.33	27.2	7	17.6	5	2.37	28.1	21.6	8	8	3.41	29.1	5	19.9	27.0	4.43	26	4					
28	1	21.0	29.54	7	19.0	2	3	1	0	7	20.0	4	5	2	5	6	9	6	7	3	9	5	8	18.7	26.0	4	12	4	7	9	2	5.15	0.3	23.6	
29	0	2	0.26	26.1	2	2	4	1.32	27.0	1	4	7	2.37	9	21.0	5	9	3.42	8	9	7	2	4.45	7	8	9	4	5.48	6	7					
30	0	3	1	0	4	4	15.1	6	2	5	4	3	9	3.11	28.3	2	5	25.1	4	15	29.2	22.1	6	4	5.19	0.1	23.0	8	6	6.22	1.0	9			
31	13.9	5	1.34	8	5	1	8	2.40	7	5	3	24.1	3.45	6	4	4	3	4.50	5	3	6	6	5.54	5	2	8	8	6.57	4	24.1					
32	9	7	2	9	27.2	7	0	23.0	3.15	28.1	6	16.2	3	4.21	29.0	5	17.4	5	5.25	9	4	6	8	6.29	8	3	19.7	28.0	7.33	7	2				
33	8	9	2.45	6	9	0	2	3.51	5	8	2	5	4.57	4	7	3	7	6	2	0.3	6	18.5	27.0	7	6	1.2	5	7	3	8	9	2.1	4		
34	7	22.1	3.23	28.0	20.1	14.9	4	4.29	9	21.0	1	7	5.35	8	9	3	26.0	6.40	7	8	5	2	7.44	6	7	7	5	8.47	5	6					
35	7	3	4	2	4	3	9	6	5	8	29.3	2	0	9	6.14	0.2	22.1	2	2	7.19	1.1	23.0	4	5	8.23	2.0	9	6	8	9.26	9	8			
36	13.6	5	4.42	8	5	8	8	5.49	7	4	0	25.1	6.55	6	3	2	4	7.59	5	2	4	7	9	4	4	24.1	19.6	29.0	10	7	3.3	9			
37	5	7	5.24	29.2	7	7	24.0	6.31	0.2	6	15.9	4	7.37	1.0	5	17.1	7	8.41	9	4	18.4	28.0	9.45	8	3	5	3	10.49	7	25.1					
38	4	9	6	8	7	9	7	3	7.14	6	8	9	6	8.20	5	7	1	27.0	9.25	2.4	6	3	2	10.29	3.3	5	5	6	11.32	4.2	3				
39	4	23.2	6.53	0.2	21.1	14.6	5	8	0	1.1	22.0	8	9	9	5	9	0	2	10.10	8	8	3	5	11.14	7	7	4	8	12.17	6	5				
40	13.3	4	7.40	6	3	5	8	8.47	6	2	7	26.1	9.52	2.4	23.1	0	5	10.57	3.3	24.0	2	8	12	1	4.2	9	19.4	0.1	13	4	5.1	7			
41	2	7	8.29	1.1	5	4	25.1	9.36	2.1	4	6	4	10.41	9	3	16.9	8	11.46	8	2	18.2	29.1	12.50	7	25.1	3	4	13.53	6	26.0					
42	1	24.0	9.20	6	7	4	4	10.26	6	6	15.6	7	11.32	3.5	5	8	28.1	12.37	4.4	4	1	4	13.40	5.2	3	3	7	14.43	6.1	2					
43	0	3	10.13	2.2	22.0	14.3	7	11.20	3.1	9	5	27.0	12.25	4.0	7	7	4	13.30	9	6	1	7	14.33	8	5	2	1.1	15.36	6	4					
44	12.9	6	11	9	7	2	2	26.0	12.15	6	23.1	5	3	13.21	5	24.0	6	7	14.25	5.4	9	0	8	15.28	6.3	8	19.2	5	16.31	7.2	6				
45	9	8	12	7	3.3	5	1	3	13.13	4.2	4	4	6	14.18	5.1	2	16.6	29.0	15.22	6.0	25.1	17.9	0.4	16.25	9	26.0	1	9	17.28	7	9				
46	8	25.1	13	9	9	8	0	6	14.14	8	6	15.3	28.0	15.19	7	4	5	4	16.23	6	3	8	8	17.25	7.4	2	1	2.3	18.27	8.3	27.1				
47	7	5	14.13	4.5	23.0	13.9	27.0	15.18	5.4	8	2	4	16.22	6.3	7	5	8	17.26	7.2	6	7	1.2	18.28	8.0	4	0	7	19.29	9	3					
48	5	9	15.20	5.1	2	8	4	16.25	6.0	24.1	1	8	17.28	9	25.0	4	0.3	18.31	8	8	6	7	19.33	6	7	18.9	3.2	20.34	9.5	6					
49	12.4	26.3	16.30	8	5	7	8	17.35	7	4	0	29.3	18.38	7.5	3	16.3	8	19.40	8.4	26.1	5	2.2	20.41	9.3	27.0	8	7	21.42	10.1	9					
50	3	8	17.44	6.5	8	6	28.3	18.48	7.4	7	14.9	8	19.51	8.2	6	2	1.3	20.53	9.1	4	17.5	8	21.53	10.0	3	7	4.3	22.53	8	28.2					
51	2	27.3	19	3	7.2	24.2	13.5	8	20	6	8.1	25.0	7	0.4	21	8	9	9	0	9.22	9	8	8	4	3.4	23	9	6	6	6	9	24	8	11.5	5
52	0	8	20.25	8.0	5	3	29.4	21.27	8	4	6	1.0	22.28	9.6	26.2	15.9	2.5	23	29	10.5	27.1	3	4.0	24	28	11.3	9	18.5	5.5	25	26	12.2	8		
53	11.9	28.4	21.52	8	8	2	8	22.53	9.6	7	5	6	23	53	10.4	6	8	3.2	24.53	11.3	4	2	7	25.51	12.1	28.2	5	6.2	26.48	13.0	29.2				
54	7	29.1	23.23	9.6	25.2	0	0.7	24.24	10.5	26.0	14.4	2.3	25	23	11.2	9	7	4.0	26.21	12.1	7	1	5.5	27	18	13.0	6	4	7.0	28	14	8	5		
55	6	8	25	0	10.5	6	12.9	1.5	25.59	11.3	4	3	3.1	26.57	12.1	27.3	6	8	27.54	13.0	28.1	16.9	6.4	28	50	8	29.0	3	9	29.45	14.6	8			
56	4	0.7	26.42	11.4	26.0	7	2.4	27.40	12.2	9	1	4.1	28.36	13.0	7	5	5.8	29.32	9	5	7	7.4	0.26	14.7	4	1	8.9	1.20	15.5	0.2	9				

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } $\approx 19^\circ$					H. M. S. } $\approx 20^\circ$					H. M. S. } $\approx 21^\circ$					H. M. S. } $\approx 22^\circ$					H. M. S. } $\approx 23^\circ$					H. M. S. } $\approx 24^\circ$									
SID. T. 21 25 43 } $\approx 19^\circ$		21 29 39 } $\approx 20^\circ$					21 33 34 } $\approx 21^\circ$					21 37 29 } $\approx 22^\circ$					21 41 23 } $\approx 23^\circ$					21 45 16 } $\approx 24^\circ$														
ARC 321° 25'.7 } $\approx 19^\circ$		322° 24'.7 } $\approx 20^\circ$					323° 23'.5 } $\approx 21^\circ$					324° 22'.2 } $\approx 22^\circ$					325° 20'.6 } $\approx 23^\circ$					326° 19'.0 } $\approx 24^\circ$														
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3					
		X	Y	II	III	IV	X	Y	II	III	IV	X	Y	II	III	IV	X	Y	II	III	IV	X	Y	II	III	IV	X	Y	II	III	IV					
22	20.1	26.1	2 16	28.3	22.7	21.2	27.2	3 17	29.2	23.6	22.4	28.4	4 18	0.1	24.5	23.5	29.5	5 19	1.0	25.4	24.6	0.7	6 19	1.9	26.3	25.7	1.8	7 18	2.8	27.2						
23	1	3	2 44	6	8	2	4	3 46	5	7	3	6	4 47	4	6	5	7	5 47	3	5	6	8	6 47	2.2	4	7	2.0	7 47	3.1	3						
24	0	4	3 13	29.0	23.0	2	6	4 15	9	9	3	8	5 16	8	8	4	9	6 17	7	7	6	1.0	7 17	5	6	7	2	8 16	4	5						
25	0	6	3 42	3	1	1	8	4 44	0.2	24.0	3	29.0	5 46	1.1	9	4	0.1	6 46	2.0	8	6	2	7 47	9	7	7	4	8 46	7	6						
26	0	8	4 12	6	3	1	28.0	5 14	5	2	3	2	6 16	4	25.1	4	3	7 17	3	26.0	5	4	8 17	3.2	9	7	6	9 17	4.1	8						
27	19.9	27.0	4 43	26	4	21.1	2	5 45	9	3	22.2	4	6 47	7	2	23.4	5	7 48	6	1	24.5	7	8 49	5	27.0	25.7	8	9 49	4	9						
28	9	2	5 15	0.3	23.6	0	4	6 17	1.2	5	2	6	7 19	2.1	4	3	7	8 21	3.0	3	5	9	9 21	9	2	7	3.1	10 21	7	28.1						
29	9	4	5 48	6	7	0	6	6 50	5	6	2	8	7 52	4	5	3	1.0	8 53	3	4	5	2.1	9 54	4.2	3	6	3	10 54	5.1	2						
30	8	6	6 22	1.0	9	0	8	7 24	9	8	1	8	8 26	8	7	3	2	9 27	7	26.6	5	4	10 28	6	5	6	6	11 28	4	4						
31	8	8	6 57	4	24.1	20.9	29.0	7 59	2.3	25.0	1	0.2	9 1	3.1	9	3	4	10 2	4.0	7	4	6	11 3	9	6	6	8	12 3	8	5						
32	19.7	28.0	7 33	7	2	9	3	8 35	6	1	22.1	5	9 37	5	26.0	23.2	7	10 38	4	9	24.4	9	11 38	5.3	8	25.6	4.1	12 38	6.2	7						
33	7	3	8 9	2.1	4	9	5	9 12	3.0	3	0	7	10 14	9	2	2	2.0	11 15	8	27.1	4	3.2	12 15	7	28.0	6	4	13 15	5	9						
34	7	5	8 47	5	6	8	8	9 50	4	5	0	1.0	10 52	4.3	4	2	2	11 53	5.2	2	4	5	12 53	6.1	1	5	7	13 53	9	29.0						
35	6	8	9 26	9	8	8	8	10 29	8	6	0	3	11 31	7	5	2	5	12 32	6	4	3	7	13 33	5	3	5	5.0	14 32	7.3	2						
36	19.6	29.0	10 7	3.3	9	20.8	0.3	11 10	4.2	8	21.9	6	12 11	5.1	7	1	8	13 13	6.0	6	3	4.0	14 14	9	4	5	3	15 13	7	4						
37	5	3	10 49	7	25.1	7	5	11 51	6	26.0	9	8	12 53	5	9	23.1	3.0	13 55	4	8	24.3	3	14 55	7.3	6	25.5	6	15 54	8.2	6						
38	5	6	11 32	4.2	3	7	8	12 35	5.1	2	9	2.1	13 37	6.0	27.1	1	3	14 38	8	28.0	3	6	15 38	7	8	5	9	16 38	6	7						
39	4	8	12 17	6	5	6	1.1	13 20	5	4	8	4	14 22	4	3	0	7	15 23	7.3	2	2	9	16 23	8.2	29.0	4	6.3	17 22	9.0	9						
40	19.4	0.1	13 4	5.1	7	20.6	4	14 7	6.0	6	8	7	15 8	9	5	0	4.0	16 9	7	4	2	5.3	17 9	6	2	4	6	18 8	5	0.1						
41	3	4	13 53	6	26.0	5	7	14 55	5	8	21.7	3.0	15 56	7.4	7	0	4	16 57	8.2	6	24.2	7	17 57	9.1	4	4	7.0	18 56	9	3						
42	3	7	14 43	6.1	2	5	2.1	15 45	7.0	27.1	7	4	16 47	9	9	22.9	8	17 46	7	8	1	6.1	18 46	6	6	25.4	4	19 45	10.4	5						
43	2	1.1	15 36	6	4	4	5	16 38	5	3	6	8	17 38	8.4	28.2	9	5.2	18 38	9.2	29.0	1	5	19 37	10.1	8	4	8	20 36	9	7						
44	19.2	5	16 31	7.2	6	20.4	9	17 32	8.1	5	6	4.2	18 32	9	4	8	6	19 32	8	3	1	9	20 31	6	8	3	8.2	21 29	11.5	1.0						
45	1	9	17 28	7	9	3	3.3	18 29	6	8	5	6	19 29	9.5	6	8	6.0	20 28	10.3	5	24.1	7.3	21 27	11.2	0.2	3	6	22 25	12.0	2						
46	1	2.3	18 27	8.3	27.1	3	7	19 28	9.2	28.0	21.5	5.0	20 28	10.0	8	7	5	21 27	9	7	0	8	22 25	7	5	3	9.1	23 22	6	4						
47	0	7	19 29	9	3	2	4.2	20 29	8	2	5	5	21 29	6	29.0	22.7	7.0	22 28	11.5	8	0	8.3	23 25	12.3	7	25.3	6	24 22	13.1	6						
48	18.9	3.2	20 34	9.5	6	20.2	7	21 34	10.4	4	4	6.0	22 33	11.2	3	7	5	23 31	12.1	0.2	0	8	24 28	9	1.0	3	10.2	25 24	7	9						
49	8	7	21 42	10.1	9	1	5.2	22 41	11.0	7	4	6	23 40	8	6	6	8.0	24 37	7	4	23.9	9.4	25 34	13.5	3	2	8	26 30	14.3	2.1						
50	7	4.3	22 53	8	28.2	0	8	23 52	6	29.0	3	7.2	24 49	12.5	9	6	6	25 46	13.3	7	9	10.0	26 42	14.1	6	2	11.4	27 38	9	4						
51	6	9	24 8	11.5	5	0	6.4	25 5	12.3	3	21.3	8	26 2	13.1	8	6	9.2	26 59	14.0	1.0	9	6	27 54	8	9	25.2	12.1	28 49	15.6	7						
52	18.5	5.5	25 26	12.2	8	19.9	7.1	26 23	13.0	7	2	8.5	27 19	8	5	22.5	9	28 14	7	4	8	11.3	29 9	15.5	2.2	1	8	0	3	16.3	3.1					
53	5	6.2	26 48	13.0	29.2	8	8	27 44	8	8	1	9.3	28 39	14.6	8	4	10.7	29 34	15.4	7	23.8	12.1	0	27	16.2	4	1	13.6	120	17.0	4					
54	4	7.0	28 14	8	5	7	8.6	29 9	14.6	0.3	0	10.1	0	3	15.4	1.1	3	11.6	0	57	16.2	2.0	7	13.0	1	49	17.0	7	0	14.5	2	41	7	7		
55	3	9	29 45	14.6	8	6	9.5	0	39	15.4	7	20.9	11.0	1	32	16.2	5	3	12.5	2	24	17.0	3	6	14.0	3	15	7	3.1	24.9	15.5	4	6	18.5	4.0	
56	1	8.9	1	20	15.5	8	5	10.5	2	12	16.2	1.1	9	12.0	3	4	17.0	9	2	13.5	3	55	8	7	5	15.1	4	45	18.5	5	9	16.6	5	35	19.3	4

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } $\approx 25^\circ$ SID. T. 21 49 8 } ARC 327° 17'.1 }					H. M. S. } $\approx 26^\circ$ 21 53 0 } 328° 15'.1 }					H. M. S. } $\approx 27^\circ$ 21 56 52 } 329° 12'.9 }					H. M. S. } $\approx 28^\circ$ 22 0 42 } 330° 10'.6 }					H. M. S. } $\approx 29^\circ$ 22 4 33 } 331° 8'.1 }					H. M. S. } $\approx 30^\circ$ 22 8 22 } 332° 5'.5 }				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	26.9	2.9	8.17	3.7	28.1	28.0	4.1	9.16	4.6	29.0	29.1	5.1	10.14	5.4	29.9	0.2	6.2	11.12	6.3	0.8	1.3	7.3	12.9	7.2	1.7	2.4	8.4	13.6	8.0	2.6	
23	8	3.1	8.46	4.0	2	0	3	9.45	9	1	1	3	10.43	7	9	2	5	11.41	6	9	3	6	12.38	5	8	4	7	13.35	3	7	
24	8	3	9.15	3	4	0	5	10.14	5.2	3	1	6	11.12	6.0	0.2	2	7	12.10	9	1.0	3	8	13.8	8	9	4	9	14.4	6	8	
25	8	5	9.46	6	5	0	7	10.44	5	4	1	8	11.43	4	3	2	9	12.40	7.2	2	3	8.0	13.38	8.1	2.1	4	9.1	14.35	9.0	3.0	
26	8	8	10.17	5.0	28.6	0	9	11.15	8	29.5	1	6.0	12.13	7	4	2	7.1	13.11	6	3	3	3	14.9	4	2	4	4	15.6	3	1	
27	26.8	4.0	10.48	3	8	27.9	5.1	11.47	6.2	7	29.1	3	12.45	7.0	6	0.2	4	13.43	9	5	1.3	5	14.40	7	4	2.5	6	15.37	6	3	
28	8	2	11.20	6	9	9	4	12.19	5	8	1	5	13.17	4	7	2	7	14.15	8.2	1.6	3	8	15.13	9.1	5	5	9	16.9	9	4	
29	8	5	11.53	6.0	29.1	9	6	12.52	8	9	1	8	13.51	7	9	2	9	14.48	6	8	3	9.0	15.46	4	7	5	10.2	16.43	10.3	3.5	
30	8	7	12.27	3	3	9	9	13.26	7.2	0.1	1	7.0	14.25	8.1	1.0	2	8.2	15.22	9	9	3	3	16.20	8	8	5	4	17.16	6	7	
31	8	5.0	13.2	7	4	9	6.2	14.1	5	3	1	3	14.59	4	2	2	5	15.57	9.3	2.1	4	6	16.54	10.1	3.0	5	7	17.51	11.0	8	
32	26.7	3	13.38	7.0	6	27.9	4	14.37	9	5	29.1	6	15.35	8	3	0.2	8	16.33	6	2	1.4	9	17.30	5	1	2.5	11.1	18.27	3	4.0	
33	7	6	14.15	4	7	9	7	15.14	8.3	6	1	9	16.12	9.2	5	2	9	17.10	10.0	4	4	10.2	18.7	9	3	5	4	19.3	7	1	
34	7	9	14.53	8	9	9	7.0	15.51	7	8	1	8.2	16.50	5	1.7	2	4	17.47	4	5	4	5	18.44	11.2	4	5	7	19.41	12.1	3	
35	7	6.2	15.32	8.2	0.1	9	3	16.30	9.1	1.0	0	5	17.28	9	8	2	7	18.26	8	7	4	9	19.23	6	3.6	5	12.0	20.19	5	5	
36	7	5	16.12	6	2	9	7	17.10	5	1	0	8	18.8	10.3	9	2	10.0	19.6	11.2	9	4	11.2	20.3	12.0	8	5	4	20.59	9	4.6	
37	26.7	8	16.54	9.0	4	27.8	8.0	17.52	9	3	29.0	9.2	18.50	7	2.1	0.2	4	19.47	6	3.1	1.4	6	20.44	4	9	2.6	8	21.40	13.3	7	
38	6	7.1	17.37	4	6	8	3	18.35	10.3	5	0	6	19.32	11.2	3	2	8	20.29	12.0	2	4	9	21.26	8	4.1	6	13.1	22.22	7	9	
39	6	4	18.21	9	8	8	6	19.19	7	7	0	9	20.16	6	5	2	11.1	21.13	4	4	4	12.3	22.10	13.3	3	6	5	23.6	14.1	5.1	
40	6	8	19.7	10.3	1.0	8	9.0	20.5	11.2	9	0	10.3	21.2	12.0	7	2	5	21.59	9	6	4	7	22.55	7	5	6	9	23.56	5	3	
41	6	8.2	19.54	8	2	8	4	20.52	6	2.1	0	7	21.49	5	9	2	9	22.45	13.3	8	4	13.1	23.41	14.2	7	6	14.3	24.37	15.0	5	
42	26.6	6	20.43	11.3	4	27.8	8	21.41	12.1	3	29.0	11.1	22.38	13.0	3.1	0.2	12.3	23.34	8	4.0	1.4	6	24.29	6	9	2.6	8	25.24	4	7	
43	6	9.0	21.34	8	6	8	10.2	22.31	6	5	0	5	23.28	5	3	2	8	24.24	14.3	2	4	14.1	25.19	15.1	5.1	6	15.3	26.14	9	9	
44	5	4	22.27	12.3	8	8	7	23.24	13.1	7	0	12.0	24.20	14.0	5	2	13.3	25.16	8	4	4	6	26.11	6	3	6	8	27.5	16.4	6.1	
45	5	9	23.22	8	2.0	8	11.2	24.18	7	9	0	5	25.14	5	7	2	8	26.10	15.3	7	5	15.1	27.4	16.1	5	7	16.3	27.58	9	3	
46	5	10.4	24.19	13.4	2	7	7	25.15	14.2	3.1	0	13.0	26.10	15.0	9	2	14.3	27.5	8	9	5	6	28.0	6	7	7	8	28.53	17.4	5	
47	26.5	9	25.19	9	5	27.7	12.2	26.14	8	3	29.0	6	27.9	6	4.2	0.2	9	28.4	16.4	5.1	1.5	16.2	28.57	17.2	9	2.7	17.4	29.50	18.1	7	
48	4	11.5	26.21	14.5	7	7	8	27.15	15.3	6	0	14.2	28.10	16.1	4	2	15.5	29.4	9	3	5	8	29.57	7	6.1	7	18.0	0.44	8	7.0	
49	4	12.1	27.25	15.1	3.0	7	13.4	28.19	9	9	0	8	29.13	7	7	2	16.1	0	7	17.5	5	17.4	0.59	18.3	3	7	6	18.1	19.1	2	
50	4	8	28.32	7	3	7	14.1	29.26	16.5	4.1	0	15.5	0	19	17.3	5.0	2	8	11.2	18.1	8	5	18.1	2.4	9	6	8	19.3	2.55	7	5
51	4	13.5	29.42	16.4	6	7	8	0.36	17.1	4	28.9	16.2	1.28	9	3	2	17.5	2.20	7	6.1	5	8	3.11	19.5	9	8	20.0	4.1	20.4	8	
52	26.4	14.2	0.56	17.1	9	27.7	15.6	1.48	8	7	9	17.0	2.40	18.6	6	0.2	18.3	3.31	19.4	4	1.5	19.6	4.21	20.1	7.2	2.8	8	5.11	21.0	8.1	
53	3	15.0	2.12	8	4.2	6	16.4	3.4	18.5	5.0	9	8	3.54	19.3	8	2	19.2	4.44	20.1	7	5	20.5	5.34	8	5	8	21.7	6.23	7	4	
54	3	9	3.32	18.5	5	6	17.3	4.23	19.3	3	9	18.7	5.12	20.0	6.1	2	20.1	6.2	8	7.0	6	21.5	6.50	21.5	8	9	22.7	7.35	22.4	6	
55	3	16.9	4.56	19.3	8	6	18.3	5.45	20.1	6	9	19.7	6.34	8	4	2	21.1	7.22	21.6	3	6	22.5	8.10	22.3	8.1	9	23.5	8.57	23.1	9	
56	3	18.0	6.24	20.1	5.2	6	19.4	7.12	9	6.0	9	20.8	7.59	21.6	8	2	22.2	8.46	22.4	7	6	23.6	9.33	23.1	5	9	25.0	10.18	9	9.2	

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. SID. T. 22 8 22 } $\times$ ARC 332° 5'.5 } 0°					H. M. S. 22 12 11 } $\times$ 1° 333° 2'.8 }					H. M. S. 22 16 0 } $\times$ 2° 333° 59'.9 }					H. M. S. 22 19 47 } $\times$ 3° 334° 56'.8 }					H. M. S. 22 23 35 } $\times$ 4° 335° 53'.7 }					H. M. S. 22 27 22 } $\times$ 5° 336° 50'.4 }										
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3						
	°	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$						
22	2.4	8.4	13	6	8.0	2.6	3.5	9.5	14	2	8.9	3.5	4.6	10.6	14	58	9.7	4.4	5.7	11.6	15	54	10.6	5.3	6.8	12.7	16	49	11.5	6.1	7.9	13.7	17	44	12.3	7.0	
23	4	7	13	35	3	7	5	7	14	31	9.2	6	6	8	15	27	10.0	5	7	9	16	23	9	4	8	9	17	18	8	3	9	14.0	18	13	6	2	
24	4	9	14	4	6	8	5	10.0	15	1	5	7	6	11.1	15	57	4	6	8	12.1	16	53	11.2	5	9	13.2	17	48	12.1	4	9	2	18	42	9	3	
25	4	9.1	14	35	9.0	3.0	6	2	15	31	8	9	6	3	16	27	7	8	8	4	17	23	5	6	9	4	18	18	4	5	8.0	5	19	13	13.2	4	
26	4	4	15	6	3	1	6	5	16	2	10.1	4.0	7	6	16	58	11.0	9	5.8	6	17	54	8	8	6.9	7	18	49	7	6.7	0	8	19	43	5	7.6	
27	2.5	6	15	37	6	3	3.6	7	16	34	5	1	4.7	8	17	29	3	5.0	8	9	18	25	12.2	9	9	14.0	19	20	13.0	8	0	15.0	20	15	9	7	
28	5	9	16	9	9	4	6	11.0	17	6	8	3	7	12.1	18	2	6	2	8	13.2	18	57	5	6.1	9	3	19	52	3	9	1	3	20	47	14.2	8	
29	5	10.2	16	43	10.3	3.5	6	3	17	39	11.1	4	7	4	18	35	12.0	3	9	5	19	30	8	2	7.0	6	20	25	7	7.1	1	6	21	20	5	8.0	
30	5	4	17	16	6	7	6	6	18	13	5	4.6	7	7	19	9	3	5	5.9	8	20	4	13.2	3	0	9	20	59	14.0	2	8.1	9	21	53	8	1	
31	5	7	17	51	11.0	8	6	9	18	47	8	7	8	13.0	19	43	7	5.6	9	14.1	20	38	5	5	0	15.2	21	33	3	4	2	16.2	22	28	15.2	2	
32	2.5	11.1	18	27	3	4.0	3.6	12.2	19	23	12.2	9	4.8	3	20	19	13.0	7	9	4	21	14	9	6.6	1	5	22	9	7	5	2	6	23	3	5	4	
33	5	4	19	3	7	1	7	5	19	59	6	5.0	8	6	20	55	4	9	9	7	21	50	14.2	8	1	8	22	45	15.1	7.6	2	9	23	39	9	8.5	
34	5	7	19	41	12.1	3	7	8	20	37	9	2	8	9	21	32	8	6.0	6.0	15.0	22	27	6	9	7.1	16.1	23	22	4	8	3	17.2	24	16	16.2	7	
35	5	12.0	20	19	5	5	7	13.2	21	15	13.3	3	8	14.3	22	11	14.1	2	0	4	23	5	15.0	7.1	2	5	24	0	8	9	8.3	6	24	54	6	8	
36	5	4	20	59	9	4.6	3.7	5	21	55	7	5	4.9	7	22	50	5	4	0	8	23	44	4	2	2	9	24	39	16.2	8.1	3	18.0	25	33	17.0	9.0	
37	2.6	8	21	40	13.3	7	7	9	22	35	14.1	7	9	15.0	23	30	9	5	0	16.2	24	25	8	4	2	17.3	25	19	6	3	4	4	26	13	4	1	
38	6	13.1	22	22	7	9	7	14.3	23	17	5	8	9	4	24	12	15.3	7	0	6	25	6	16.2	6	3	7	26	0	17.0	4	4	8	26	54	8	3	
39	6	5	23	6	14.1	5.1	8	6	24	1	9	6.0	9	8	24	55	8	9	6.1	17.0	25	49	6	8	7.3	18.1	26	43	4	6	5	19.2	27	36	18.2	5	
40	6	9	23	50	5	3	3.8	15.0	24	45	15.4	2	5.0	16.2	25	40	16.2	7.1	1	4	26	33	17.0	9	3	5	27	27	8	8	8.5	6	28	20	6	9.6	
41	6	14.3	24	37	15.0	5	8	4	25	31	8	4	0	6	26	25	6	3	1	9	27	19	5	8.1	4	19.0	28	12	18.3	9.0	6	20.1	29	5	19.1	7	
42	2.6	8	25	24	4	7	8	9	26	19	16.3	6	0	17.1	27	12	17.1	5	1	18.4	28	6	9	3	4	5	28	59	7	2	6	6	29	51	5	9	
43	6	15.3	26	14	9	9	8	16.4	27	8	7	8	1	6	28	1	6	7	2	9	28	55	18.4	5	5	20.0	29	47	19.2	4	7	21.1	0	39	20.0	10.1	
44	6	8	27	5	16.4	6.1	3.9	9	27	59	17.2	7.0	5.1	18.1	28	52	18.1	9	6.2	19.4	29	45	9	7	7.5	5	0	37	7	6	7	6	1	28	5	3	
45	7	16.3	27	58	9	3	9	17.4	28	51	7	2	1	6	29	44	6	8.1	2	9	0	36	19.4	9	5	21.1	1	28	20.2	8	8.8	22.2	2	19	9	5	
46	7	8	28	53	17.4	5	9	18.0	29	46	18.2	4	2	19.2	0	38	19.1	3	3	20.5	1	30	9	9.2	6	7	2	21	7	10.0	8	8	3	12	21.4	7	
47	2.7	17.4	29	50	18.0	7	9	6	0	42	8	6	2	8	1	34	6	4	3	21.1	2	26	20.4	4	6	22.3	3	16	21.2	2	9	23.4	4	6	22.0	9	
48	7	18.0	0	49	5	7.0	4.0	19.2	1	41	19.3	8	5.2	20.4	2	32	20.1	6	6.4	7	3	23	9	6	6	9	4	13	7	4	9	24.1	5	3	5	11.1	
49	7	6	1	51	19.1	2	0	9	2	42	9	8.1	3	21.1	3	33	7	8	4	22.4	4	23	21.4	8	7.7	23.6	5	12	22.2	6	9.0	8	6	2	23.1	3	
50	8	19.3	2	55	7	5	0	20.6	3	46	20.5	3	3	8	4	35	21.3	9.1	5	23.1	5	25	22.0	10.0	7	24.3	6	14	8	8	0	25.5	7	2	6	6	
51	8	20.0	4	1	20.4	8	1	21.3	4	51	21.1	6	4	22.6	5	40	9	4	5	9	6	29	6	3	8	25.1	7	18	23.4	11.1	1	26.3	8	5	24.2	8	
52	2.8	8	5	11	21.0	8.1	4.1	22.1	6	0	7	9	5.4	23.4	6	48	22.5	7	6.6	24.7	7	36	23.2	6	9	9	8	24	24.0	3	1	27.2	9	11	8	12.1	
53	8	21.7	6	23	7	4	1	23.0	7	11	22.4	9.1	5	24.3	7	59	23.2	9	7	25.6	8	46	9	8	9	26.8	9	33	6	5	9.2	28.1	10	19	25.4	4	
54	9	22.7	7	38	22.4	6	2	24.0	8	25	23.1	4	5	25.3	9	12	9	10.2	7	26.6	9	59	24.6	11.0	8.0	27.8	10	44	25.3	8	3	29.1	11	30	26.1	7	
55	9	23.8	8	57	23.1	9	2	25.1	9	43	8	7	5	26.4	10	29	24.6	5	8	27.7	11	14	25.3	3	1	28.9	11	59	26.0	12.1	4	0	2	12	43	8	13.0
56	9	25.0	10	18	9	9.2	2	26.3	11	4	24.6	10.0	6	27.6	11	48	25.3	9	9	28.9	12	33	26.0	7	2	0	1	13	17	7	5	6	1.4	14	0	27.5	3

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } $\times 6^\circ$ SID. T. 22 31 8 } ARC 337° 47'.0 }					H. M. S. } $\times 7^\circ$ 22 34 54 } 338° 43'.4 }					H. M. S. } $\times 8^\circ$ 22 38 39 } 339° 39'.8 }					H. M. S. } $\times 9^\circ$ 22 42 24 } 340° 36'.0 }					H. M. S. } $\times 10^\circ$ 22 46 9 } 341° 32'.2 }					H. M. S. } $\times 11^\circ$ 22 49 53 } 342° 28'.2 }				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
	°	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$
22	9.0	14.8	18.38	13.2	7.9	10.1	15.8	19.32	14.0	8.8	11.2	16.8	20.26	14.9	9.7	12.2	17.9	21.19	15.7	10.6	13.3	18.9	22.13	16.5	11.5	14.4	19.9	23.6	17.4	12.4	
23	0	15.0	19.7	5	8.1	1	16.1	20.1	3	9	2	17.1	20.55	15.2	8	3	18.1	21.48	16.0	7	4	19.2	22.42	8	6	4	20.2	23.34	7	5	
24	1	3	19.37	8	2	1	3	20.31	6	9.1	2	4	21.25	5	10.0	3	4	22.18	3	9	4	4	23.11	17.1	7	5	4	24	4	18.0	6
25	1	6	20.7	14.1	3	2	6	21.1	9	2	3	7	21.55	8	1	3	7	22.48	6	11.0	4	7	23.41	4	9	5	7	24.34	3	7	
26	1	8	20.38	4	4	2	9	21.32	15.2	3	3	9	22.25	16.1	2	12.4	19.0	23.19	9	1	5	20.0	24.12	7	12.0	14.6	21.0	25	4	6	9
27	9.1	16.1	21.9	7	8.6	10.2	17.2	22.3	5	5	11.3	18.2	22.57	4	3	4	3	23.50	17.2	2	13.5	3	24.43	18.0	1	6	3	25.35	9	13.0	
28	2	4	21.41	15.0	7	3	5	22.35	9	9.6	4	5	23.29	7	10.5	5	6	24.22	5	4	6	6	25.15	4	2	7	6	26	7	19.2	1
29	2	7	22.14	4	8	3	8	23.8	16.2	7	4	8	24.1	17.0	6	5	9	24.54	8	11.5	6	9	25.47	7	4	7	9	26.39	5	2	
30	2	17.0	22.48	7	9.0	4	18.1	23.41	5	9	5	19.1	24.35	3	7	12.6	20.2	25.27	18.2	6	7	21.2	26.20	19.0	12.5	14.8	22.2	27.12	8	4	
31	3	3	23.22	16.0	1	4	4	24.16	9	10.0	5	4	25.9	7	9	6	5	26.1	5	7	13.7	5	26.54	3	6	8	6	27.46	20.2	13.5	
32	9.3	7	23.57	4	3	10.4	7	24.50	17.2	1	11.6	8	25.44	18.0	11.0	7	8	26.36	8	9	8	9	27.29	7	7	9	9	28.20	5	6	
33	4	18.0	24.33	7	4	5	19.1	25.26	6	3	6	20.1	26.19	4	1	7	21.2	27.12	19.2	12.0	8	22.2	28.4	20.0	9	15.0	23.3	28.56	8	8	
34	4	3	25.10	17.1	9.6	5	4	26.3	9	4	7	5	26.56	7	3	12.8	5	27.48	5	2	9	6	28.40	4	13.0	0	6	29.32	21.2	9	
35	4	7	25.47	4	7	6	8	26.40	18.3	10.6	7	9	27.33	19.1	4	8	9	28.25	9	3	14.0	23.0	29.17	7	2	1	24.0	0	9	5	14.0
36	5	19.1	26.26	8	9	6	20.2	27.19	7	7	11.8	21.3	28.12	5	11.6	9	22.3	29.4	20.3	5	0	4	29.55	21.1	3	1	4	0.47	9	2	
37	9.5	5	27.6	18.2	10.0	10.7	6	27.59	19.0	9	8	7	28.51	9	7	9	7	29.43	7	12.6	1	8	0.34	5	5	2	8	1	25.22.3	3	
38	6	9	27.47	6	2	7	21.0	28.39	4	11.0	9	22.1	29.31	20.3	9	13.0	23.2	0.23	21.1	8	2	24.2	1.14	8	6	15.3	25.3	2	5	7	5
39	6	20.4	28.29	19.0	3	8	5	29.21	8	2	9	5	0.13	7	12.1	0	6	1	4	5	9	2	7	1.55	22.2	8	4	7	2.46	23.0	7
40	6	8	29.12	4	5	8	9	0	4	20.3	4	12.0	23.0	0.56	21.1	2	1	24.1	1.47	9	13.1	14.3	25.1	2.37	6	14.0	4	26.2	3.27	4	8
41	6	21.3	29.57	9	7	9	22.4	0.48	7	6	1	5	1.40	5	4	1	6	2.30	22.3	3	4	6	3.21	23.1	1	5	7	4	10	8	15.0
42	9.7	8	0.43	20.3	9	11.0	9	1.34	21.1	7	1	24.0	2.25	9	6	2	25.1	3.15	7	5	5	26.1	4	5	5	3	6	27.3	4.55	24.3	2
43	7	22.3	1.30	8	11.1	0	23.4	2.21	6	9	2	5	3.12	22.4	8	13.3	6	4	2.23.1	6	5	6	4.51	9	5	15.6	8	5.40	7	3	
44	8	9	2.19	21.3	3	1	24.0	3.10	22.1	12.1	2	25.0	4	0	8	13.0	4	26.1	4.50	6	8	6	27.2	5.39	24.4	7	7	28.4	6.28	25.2	5
45	9	23.4	3.10	7	5	2	5	4	0	5	3	12.3	6	4.50	23.3	2	4	7	5.39	24.1	14.0	14.6	8	6.28	8	8	8	29.0	7.16	6	7
46	9	24.0	4	2.22.2	7	2	25.1	4.52	23.0	5	3	26.2	5.41	8	3	5	27.3	6.30	6	2	7	28.4	7.18	25.3	15.0	9	6	8	6.26.1	8	
47	10.0	6	4.56	7	9	11.3	7	5.45	5	7	4	8	6.34	24.2	5	13.6	9	7.23	25.1	4	8	29.0	8.11	8	2	16.0	0.3	8.58	6	16.0	
48	1	25.3	5.52	23.2	12.1	3	26.4	6.41	24.0	9	5	27.5	7.29	7	7	7	28.6	8.17	6	6	9	7	9	5.26.3	4	1	9	9.52	27.1	2	
49	1	26.0	6.50	7	3	4	27.1	7.38	5	13.1	12.6	28.2	8.26	25.3	9	8	29.3	9.13	26.1	8	15.0	0.4	10	0	8	6	2	16	10.47	6	4
50	2	7	7.50	24.3	5	5	8	8.38	25.1	3	7	29.0	9.25	8	14.1	9	0.1	10.12	6	15.0	1	1.2	10.58	27.3	8	3	3	2.3	11.44	28.1	6
51	3	27.5	8.53	9	8	6	28.6	9.40	7	6	8	8	10.26	26.4	3	14.0	9	11.12	27.2	2	2	2.0	11.58	9	16.1	16.4	3.1	12.43	7	8	
52	10.4	28.4	9.58	25.5	13.0	11.7	29.5	10.44	26.3	9	9	0.7	11.30	27.0	6	2	1.8	12.15	8	5	3	9	13	0.28.5	3	6	4.0	13.44	29.3	17.1	
53	5	29.3	11	5.26.1	2	8	0.5	11.50	9	14.1	13.0	1.7	12.35	6	8	3	2.8	13.20	28.4	7	15.5	3.9	14	4.29.1	5	7	5.0	14.48	9	3	
54	6	0.3	12.15	8	5	8	1.5	12.59	27.5	3	1	2.7	13.44	28.2	15.1	4	3.8	14.27	29.0	16.0	6	4.9	15.11	7	7	9	6.1	15.54	0.5	5	
55	7	1.4	13.28	27.5	8	9	2.6	14.11	28.2	6	2	3.8	14.54	9	4	5	4.9	15.37	6	2	8	6.0	16.20	0.3	17.0	17.0	7.2	17	2	11	8
56	8	2.6	14.43	28.2	14.1	12.0	3.8	15.26	9	9	3	5.0	16	8	29.6	7	7	6.2	16.50	0.3	5	9	7.3	17.32	10	3	1	8.5	18.13	8	18.1

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

H.	H. M. S. } $\times 11^\circ$ SID. T. 22 49 53 } ARC 342° 28'.2					H. M. S. } $\times 12^\circ$ 22 53 37 } 343° 24'.1					H. M. S. } $\times 13^\circ$ 22 57 20 } 344° 20'.0					H. M. S. } $\times 14^\circ$ 23 1 3 } 345° 15'.7					H. M. S. } $\times 15^\circ$ 23 4 46 } 346° 11'.4					H. M. S. } $\times 16^\circ$ 23 8 28 } 347° 7'.0				
	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	14.4	19.9	23 6	17.4	12.4	15.4	20.9	23 59	18.2	13.3	16.5	21.9	24 50	19.0	14.2	17.6	22.9	25 42	19.9	15.1	18.6	23.9	26 34	20.7	16.0	19.7	24.8	27 26	21.6	16.9
23	4	20.2	23 34	7	5	5	21.2	24 27	5	4	6	22.2	25 19	3	3	6	23.2	26 11	20.2	2	7	24.1	27 3	21.0	1	7	25.1	27 55	8	17.0
24	5	4	24 4	18.0	6	5	4	24 57	8	5	6	5	25 49	6	4	7	4	26 41	4	3	7	4	27 32	3	2	8	4	28 24	22.1	1
25	5	7	24 34	3	7	6	7	25 27	19.1	6	7	8	26 19	9	5	7	7	27 10	7	4	8	7	28 2	6	3	9	7	28 53	4	2
26	14.6	21.0	25 4	6	9	6	22.0	25 57	4	7	16.7	23.1	26 49	20.2	14.6	17.8	24.0	27 41	21.0	15.5	9	25.0	28 32	9	4	9	26.0	29 24	7	3
27	6	3	25 35	9	13.0	15.7	3	26 28	7	9	8	4	27 20	5	8	8	3	28 11	3	6	9	3	29 3	22.2	16.5	20.0	3	29 54	23.0	4
28	7	6	26 7	19.2	1	7	6	27 0	20.0	14.0	8	7	27 51	8	9	9	7	28 43	7	8	19.0	7	29 34	5	6	1	7	0 25	3	17.5
29	7	9	26 39	5	2	8	9	27 32	3	1	9	24.0	28 23	21.2	15.0	18.0	25.0	29 15	22.0	9	1	26.0	0 6	8	8	1	27.0	0 57	6	6
30	14.8	22.2	27 12	8	4	9	23.3	28 5	7	2	17.0	3	28 56	5	1	0	3	29 47	3	16.0	1	3	0 38	23.1	9	2	3	1 29	9	8
31	8	6	27 46	20.2	13.5	9	6	28 38	21.0	4	0	6	29 29	8	3	1	6	0 20	6	1	2	6	1 11	4	17.0	20.3	6	2 24.3	9	
32	9	9	28 20	5	6	16.0	9	29 12	3	14.5	1	25.0	0 3	22.1	4	2	26.0	0 54	9	3	3	27.0	1 45	8	1	4	28.0	2 36	6	18.0
33	15.0	23.3	28 56	8	8	1	24.3	29 47	7	6	2	3	0 38	5	15.5	3	3	1 29	23.3	4	19.3	4	2 20	24.1	3	4	4	3 10	9	1
34	0	6	29 32	21.2	9	1	7	0 23	22.0	8	2	7	1 14	8	6	18.3	7	2 5	6	16.5	4	8	2 55	4	4	5	8	3 45	25.2	3
35	1	24.0	0 9	5	14.0	2	25.1	1 0	4	9	17.3	26.1	1 51	23.2	8	4	27.1	2 41	24.0	7	5	28.2	3 32	8	17.5	20.6	29.2	4 21	6	4
36	1	4	0 47	9	2	3	5	1 38	7	15.1	4	5	2 28	5	9	5	5	3 19	3	8	6	6	4 9	25.1	7	7	6	4 58	9	18.5
37	2	8	1 25	22.3	3	16.3	9	2 16	23.1	2	5	9	3 6	9	16.1	6	28.0	3 57	7	9	19.7	29.0	4 46	5	8	8	8	5 36	26.3	7
38	15.3	25.3	2 5	7	5	4	26.3	2 56	5	4	5	27.4	3 45	24.3	2	18.7	4	4 36	25.0	17.1	7	5	5 25	8	9	9	9	6 14	6	8
39	4	7	2 46	23.0	7	4	8	3 36	8	5	17.6	8	4 26	6	4	8	9	5 16	4	2	8	9	6 5	26.2	18.1	21.0	9	6 54	27.0	19.0
40	4	26.2	3 27	4	8	5	27.3	4 18	24.2	7	7	28.3	5 7	25.0	5	8	29.4	5 56	8	4	9	0.4	6 45	6	3	0	1.4	7 34	4	1
41	5	7	4 10	8	15.0	16.6	8	5 0	6	8	8	9	5 49	4	7	9	9	6 38	26.2	6	20.0	9	7 27	27.0	4	1	2.0	8 16	8	3
42	6	27.3	4 55	24.3	2	7	28.3	5 44	25.1	16.0	9	29.4	6 33	8	9	19.0	0.4	7 22	6	7	1	1.5	8 10	4	6	2	5	8 58	28.2	4
43	15.6	8	5 40	7	3	8	9	6 29	5	2	18.0	11	7 18	26.3	17.0	1	1.0	8 6	27.0	9	2	2.0	8 54	8	7	3	3.0	9 42	6	19.6
44	7	28.4	6 28	25.2	5	9	29.5	7 16	9	4	1	0.6	8 5	7	2	2	6	8 52	5	18.1	3	6	9 40	28.3	9	21.5	6	10 27	29.0	7
45	8	29.0	7 16	6	7	17.0	0.1	8 4	26.4	6	2	1.2	8 53	27.2	4	3	2.2	9 40	9	2	20.4	3.2	10 27	7	19.1	6	4.2	11 14	5	9
46	9	6	8 6	26.1	8	1	7	8 54	8	7	3	8	9 42	6	6	4	8	10 29	28.4	3	6	8	11 16	29.1	3	7	8	12 2	9	20.0
47	16.0	0.3	8 58	6	16.0	2	1.3	9 46	27.5	9	4	2.4	10 33	28.1	7	19.5	3.4	11 19	8	5	7	4.4	12 5	5	4	9	5.5	12 51	0.4	2
48	1	9	9 52	27.1	2	3	9	10 39	8	17.1	18.5	3.1	11 25	6	9	7	4.1	12 11	29.3	7	8	5.1	12 57	8	6	22.0	6.2	13 42	8	4
49	2	1.6	10 47	6	4	17.4	2.6	11 33	28.3	3	6	8	12 19	29.1	18.1	8	9	13 5	8	9	21.0	8	13 49	0.5	8	1	9	14 35	1.3	6
50	3	2.3	11 44	28.1	6	5	3.4	12 29	8	5	7	4.5	13 15	6	3	9	5.6	14 0	0.3	19.1	1	6.6	14 44	1.0	9	3	7.7	15 29	8	8
51	16.4	3.1	12 43	7	8	6	4.2	13 28	29.4	7	9	5.3	14 12	0.1	5	20.1	6.4	14 57	8	3	3	7.4	15 41	5	20.1	5	8.5	16 24	2.3	21.0
52	6	4.0	13 44	29.3	17.1	8	5.1	14 28	8	18.0	19.0	6.2	15 12	7	7	2	7.3	15 56	1.4	5	4	8.3	16 40	2.1	3	7	9.4	17 22	8	2
53	7	5.0	14 48	9	3	18.0	6.1	15 31	0.6	2	2	7.2	16 14	1.3	9	4	8.3	16 57	2.0	8	6	9.3	17 40	7	6	9	10.4	18 22	3.4	4
54	9	6.1	15 54	0.5	5	1	7.2	16 36	1.2	4	3	8.3	17 18	9	19.1	6	9.3	18 1	6	20.0	8	10.4	18 43	3.3	8	23.0	11.4	19 24	4.0	6
55	17.0	7.2	17 2	1.1	8	3	8.3	17 44	8	6	5	9.4	18 25	2.5	4	8	10.4	19 6	3.2	2	22.0	11.5	19 47	9	21.0	2	12.5	20 28	6	8
56	1	8.5	18 13	8	18.1	4	9.6	18 54	2.5	9	7	10.7	19 34	3.1	7	21.0	11.7	20 15	8	5	2	12.8	20 55	4.5	3	5	13.7	21 35	5.2	22.1

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } $\times 17^\circ$ SID. T. 23 12 10 } ARC 348° 2'5					H. M. S. } $\times 18^\circ$ 23 15 52 } 348° 58'0					H. M. S. } $\times 19^\circ$ 23 19 33 } 349° 53'4					H. M. S. } $\times 20^\circ$ 23 23 15 } 350° 48'7					H. M. S. } $\times 21^\circ$ 23 26 56 } 351° 44'0					H. M. S. } $\times 22^\circ$ 23 30 37 } 352° 39'2					
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	
		$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\delta$	$\pi$	$\sigma$	$\rho$	$\gamma$	$\pi$	$\sigma$	$\rho$		
22	20.7	25.8	28 17	22.4	17.7		21.8	26.8	29 8	23.2	18.6	22.8	27.7	29 59	24.1	19.5	23.8	28.7	0 50	24.9	20.4	24.9	29.6	1 40	25.7	21.3	25.9	0.6	2 31	26.5	22.2	
23	8	26.1	28 46	7	9		8 27.1	29 37	5	7		9 28.0	0 28	3	6		9 29.0	1 18	25.2	5	9	9	2 8	26.0	4	26.0	9	2 59	8	3		
24	8	4 29	15 23	0	18.0		9 4 0	6 8	9	9		9 3 0	56	6	7		24.0	3 147	4	6	25.0	$\pi$ 0.2	2 37	3	5	0	1.2	3 27	27.1	4		
25	9	7 29	44	2	1		22.0	7 0 35	24.1	19.0		23.0	6 1 26	9	9		0	6 2 16	7	7	1	5	3	6	5	6	1	5	3 56	4	5	
26	21.0	27.0	0 14	5	2		0 28.0	1 5	4	1		1 9 1 55	25.2	20.0			1	9 2 46	26.0	9	2	9	3 36	8	7	2	8	4 26	6	22.6		
27	0	3 0 45	8	3			1 3 1 35	7	2			2 29.3	2 26	5	1		2	$\pi$ 0.2	3 16	3	21.0	3	1.2	4 6	27.1	8	26.3	2.1	4 56	9	7	
28	1	6 1 16	24.1	4			2 6 2 6	25.0	3			2 6 2 56	8	2			24.3	5 3 46	6	1	25.3	5	4 36	4	22.0	4	5	5 26	28.2	8		
29	2 28.0	1 48	4 18.5				22.3	9 2 38	3	4		23.3	9 3 28	26.1	3			4 9 4 18	9	2	4	8	5	7	7	1	5	8	5 57	5	9	
30	3	3 2 20	8	6			3 29.3	3 10	6	19.5		4 0.2	4 0	4	4		5	1.2	4 49	27.2	3	5	2.2	5 39	28.0	2	6	3.1	6 28	8	23.1	
31	21.4	6 2 52	25.1	8			4 6 3 43	9	7			5 6 4 32	7	20.5			6	6 5 22	5	4	6	5	6 11	3	3	26.7	5	7	0 29	1	2	
32	4 29.0	3 26	4	9			5 $\pi$ 4 16	26.2	8			6 9 5 6	27.0	6			24.7	9 5 55	8	21.5	25.7	9	6 44	6	4	8	9	7 33	4	3		
33	5	4 4 0	7 19.0				22.6	0.4	4 50	5	9	23.7	1.3	5 39	3	8		8 2.3	6 28	28.1	6	8	3.3	7 17	9	22.5	9	4.2	8 6	7	4	
34	6	8 4 35	26.0	1			7 8 5 25	8	20.0			8 7 6 14	6	9			9 7 7 3	4	8	9	7	7 51	29.2	6	27.0	6	8 40	$\rho$ 23.5				
35	21.7	$\pi$ 0.2	5 11	4	3		8 1.2	6 0	27.2	1		9 2.1	6 49	28.0	21.0		25.0	3.1	7 38	8	9	26.0	4.1	8 26	6	8	1	5.1	9 15	0.4	6	
36	8	6 5 47	7	4			9 6 6 36	5	3			24.0	6 7 25	3	1		1	5 8 13	29.1	22.0	1	5	9 2	9	9	2	5	9 50	7	7		
37	9	1.0	6 25	27.1	19.5		23.0	2.0	7 13	9	4	1 3.0	8 2	7	3		2	4.0	8 50	4	1	2	5.0	9 39	$\rho$ 0.2	23.0	3	9	10 26	1.0	9	
38	9	4 7 3	4	7			1 4 7 51	28.2	20.5			2 4 8 40	29.0	4			3	4 9 28	8	3	4	4	10 15	6	1	27.4	6.4	11 3	4	24.0		
39	22.0	9 7 42	8	8			2 9 8 30	6	7			3 9 9 18	4	21.5			4	9 10 6	$\rho$ 0.2	4	26.5	9	10 53	9	3	6	9	11 41	7	1		
40	1	2.4	8 22	28.2	20.0		3 3.4	9 10	29.0	8		4 4.4	9 58	7	7		25.5	5.4	10 45	5	22.5	6	6.4	11 32	1.3	4	7	7.4	12 19	2.1	3	
41	2	3.0	9 3	6	1		4 4.0	9 51	4	21.0		24.5	5.0	10 38	$\rho$ 0.1	8		6	9 11 26	9	7	7	9 12 12	7	23.5	8	9	12 59	5	4		
42	3	5 9 46	29.0	3			23.6	5 10 33	8	1		7 5 11 20	5	22.0			7	6.4	12 7	1.3	8	9	7.5	12 53	2.1	7	28.0	8.5	13 39	8	24.5	
43	22.5	4.0	10 29	4	4		7 5.0	11 17	$\rho$ 0.2	3		8 6.0	12 3	9	1		8	7.0	12 49	7	23.0	27.0	8.1	13 35	5	8	1	9.0	14 21	3.2	7	
44	6	6 11 14	8	6			8 6 12 1	6	4			9 6 12 47	1.3	3			9	6 13 33	2.1	1	1	7	14 19	9	24.0	3	6	15 4	6	8		
45	7	5.2	12 0	$\rho$ 0.3	8		9 6.2	12 46	1.0	21.6		25.0	7.2	13 32	8	5		26.1	8.2	14 18	5	3	2	9.3	15 3	3.3	1	4	10.2	15 48	4.0	25.0
46	9	9 12 47	7	21.0			24.0	9 13 33	5	8		2	9 14 19	2.2	22.6		3	8 15 4	3.0	5	4	9	15 48	7	3	28.5	9	16 33	5	1		
47	23.0	6.6	13 36	1.2	1		2 7.5	14 22	9	9		3 8.6	15 7	6	7		5	9.5	15 51	4	23.6	27.6	10.6	16 35	4.1	4	7	11.6	17 20	9	2	
48	1	7.2	14 26	6	2		4 8.2	15 12	2.3	22.0		5 9.3	15 56	3.0	9		7	10.2	16 40	8	8	8	11.3	17 23	5	24.5	9	12.3	18 8	5.3	3	
49	3	9 15 18	2.0	4			5 9.0	16 3	8	2		6 10.0	16 47	5	23.1		8	9 17 30	4.2	9	9	12.0	18 13	5.0	7	29.1	13.0	18 57	7	25.5		
50	5	8.7	16 12	5	6		6 7 16 56	3.3	4			8 7 17 39	4.0	3			27.0	11.7	18 22	7	24.1	28.1	7	19 5	5	9	3	7	19 48	6.2	7	
51	7	9.5	17 8	3.0	8		8 10.5	17 51	8	6		26.0	11.5	18 33	5	5		2	12.5	19 16	5.2	3	4	13.5	19 58	6.0	25.1	5	14.5	20 40	7	9
52	9	10.4	18 5	5	22.0		25.1	11.4	18 47	4.3	8	3	12.4	19 29	5.0	7		4	13.4	20 11	7	4	6	14.4	20 53	5	3	8	15.4	21 34	7.2	26.1
53	24.1	11.4	19 5	4.1	2		3 12.4	19 46	8	23.0		5 13.4	20 27	5	8		7	14.4	21 8	6.2	6	8	15.4	21 50	7.0	5	8	16.4	22 30	7	3	
54	2	12.5	20 6	7	4		5 13.5	20 46	5.4	2		7 14.5	21 27	6.1	24.0		9	15.5	22 7	8	8	29.1	16.4	22 48	5	7	0	2	17.4	23 28	8.2	5
55	4	13.6	21 9	5.3	6		7 14.6	21 49	6.0	4		9 15.6	22 29	7	2		28.1	16.6	23 9	7.4	25.0	3	17.5	23 48	8.1	9	5	18.5	24 28	8	7	
56	6	14.9	22 14	9	9		26.0	15.9	22 54	6	7	27.1	16.8	23 33	7.3	5		3	17.8	24 12	8.0	3	5	18.7	24 50	7	26.2	7	19.7	25 29	9.4	9

TABLE OF HOUSES FOR LATITUDES 22° TO 56°.

UPPER MERIDIAN, CUSP OF 10th H.

		H. M. S. } $\times 22^{\circ}$ SID. T. 23 30 37 } ARC 352° 39'.2 }					H. M. S. } $\times 23^{\circ}$ 23 34 18 } 353° 34'.4 }					H. M. S. } $\times 24^{\circ}$ 23 37 58 } 354° 29'.6 }					H. M. S. } $\times 25^{\circ}$ 23 41 39 } 355° 24'.7 }					H. M. S. } $\times 26^{\circ}$ 23 45 19 } 356° 19'.8 }					H. M. S. } $\times 27^{\circ}$ 23 48 59 } 357° 14'.8 }				
H.	Lat.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
	°	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"	°	'	"	"	"
22	25.9	0.6	2 31	26.5	22.2		26.9	1.5	3 20	27.4	23.1	27.9	2.4	4 11	28.2	24.0	28.9	3.4	5 1	29.0	24.9	0.0	4.3	5 50	29.8	25.8	1.0	5.2	6 40	0.7	26.7
23	26.0	9	2 59	8	3		27.0	8	3 49	6	2	28.0	7	4 39	5	1	29.0	7	5 29	3	25.0	1	6	6 18	0.1	9	1	5	7 7	9	8
24	0	1.2	3 27	27.1	4		1	2.1	4 17	9	3	1	3.0	5 7	7	2	1	4.0	5 57	5	1	1	9	6 46	4	26.0	2	8	7 35	1.2	9
25	1	5	3 56	4	5		2	4	4 46	28.2	4	2	4	5 36	29.0	3	2	3	6 25	8	2	2	5.2	7 15	6	1	3	6.1	8 4	4	27.0
26	2	8	4 26	6	22.6		3	7	5 15	5	5	3	7	6 5	3	4	3	6	6 54	0.1	3	3	6	7 43	9	2	4	5	8 33	7	1
27	26.3	2.1	4 56	9	7		27.3	3.1	5 45	7	23.6	4	4.0	6 34	6	24.5	4	5.0	7 24	4	4	0.4	9	8 13	1.2	3	1.5	8	9 2	2.0	2
28	4	5	5 26	28.2	8		4	4	6 15	29.0	7	28.5	3	7 4	8	6	29.5	3	7 54	6	25.5	5	6.2	8 42	5	4	6	7.1	9 31	3	3
29	5	8	5 57	5	9		5	7	6 46	3	8	6	7	7 35	0.1	7	6	6	8 24	9	6	7	6	9 13	7	26.5	7	5	10 1	6	4
30	6	3.1	6 28	8	23.1		6	4.1	7 17	6	9	7	5.0	8 6	4	8	7	6.0	8 55	1.2	7	8	9	9 43	2.0	6	8	8	10 32	8	27.5
31	26.7	5	7 0	29.1	2		27.7	4	7 49	9	24.0	8	4	8 38	7	9	8	3	9 26	5	8	9	7.2	10 15	3	7	9	8.2	11 3	3.1	6
32	8	9	7 33	4	3		8	8	8 22	0.2	2	9	7	9 10	1.0	25.0	9	7	9 59	8	9	1.0	6	10 46	6	8	2.0	6	11 34	4	7
33	9	4.2	8 6	7	4		9	5.2	8 55	5	3	29.0	6.1	9 43	3	1	8	7.1	10 31	2.1	26.0	1	8.0	11 19	9	9	2	9.0	12 7	7	8
34	27.0	6	8 40	0.23.5			28.0	6	9 28	8	4	1	5	10 16	6	3	0.2	5	11 4	4	1	2	4	11 52	3.2	27.0	3	4	12 40	4.0	9
35	1	5.1	9 15	0.4	6		1	6.0	10 3	1.2	24.5	2	7.0	10 51	2.0	4	3	9	11 38	8	2	4	8	12 26	5	1	4	8	13 13	3	28.0
36	2	5	9 50	7	7		3	5	10 38	5	6	3	4	11 25	3	25.5	4	8.3	12 13	3.1	4	1.5	9.3	13 0	9	2	2.5	10.2	13 47	7	1
37	3	9	10 26	1.0	9		4	9	11 13	8	7	29.5	9	12 1	6	6	5	8	12 48	4	26.5	6	7	13 35	4.2	4	7	7	14 22	5.0	2
38	27.4	6.4	11 3	4	24.0		28.5	7.4	11 50	2.2	9	6	8.3	12 37	3.0	7	0.7	9.3	13 24	7	6	8	10.2	14 11	5	27.5	8	11.1	14 58	3	3
39	6	9	11 41	7	1		6	9	12 28	5	25.0	7	8	13 14	3	8	8	8	14 1	4.1	7	9	7	14 48	9	6	3.0	6	15 34	6	4
40	7	7.4	12 19	2.1	3		8	8.4	13 6	8	1	8	9.3	13 53	6	26.0	9	10.3	14 39	4	8	2.0	11.2	15 25	5.2	7	1	12.1	16 11	9	28.6
41	8	9	12 59	5	4		9	9	13 45	3.1	2	8	8	14 32	4.0	1	1.1	8	15 18	8	27.0	1	7	16 3	6	8	3	6	16 49	6.2	7
42	28.0	8.5	13 39	8	24.5		29.1	9.4	14 26	5	4	0.1	10.4	15 12	4	2	2	11.3	15 57	5.2	1	3	12.2	16 43	9	28.0	5	13.2	17 28	6	8
43	1	9.0	14 21	3.2	7		2	10.0	15 7	9	25.5	3	9	15 53	7	4	4	9	16 38	5	2	5	8	17 23	6.3	1	6	7	18 8	7.0	9
44	3	6	15 4	6	8		4	6	15 50	4.3	7	4	11.5	16 35	5.1	26.5	6	12.5	17 20	9	4	6	13.4	18 4	7	2	8	14.3	18 49	3	29.1
45	4	10.2	15 48	4.0	25.0		5	11.2	16 33	7	8	6	12.2	17 18	5	7	7	13.1	18 2	6.3	27.5	8	14.0	18 47	7.1	4	4.0	9	19 31	7	2
46	28.5	9	16 33	5	1		7	9	17 18	5.1	26.0	8	8	18 2	9	8	9	7	18 46	7	7	3.0	7	19 30	5	28.5	2	15.6	20 14	8.1	3
47	7	11.6	17 20	9	2		9	12.5	18 4	5	1	1.0	13.5	18 48	6.3	9	2.1	14.4	19 31	7.1	8	2	15.4	20 15	9	7	3	16.3	20 58	5	4
48	9	12.3	18 8	5.3	3		8	13.2	18 51	9	2	2	14.2	19 35	7	27.1	3	15.1	20 18	5	9	4	16.1	21 1	8.3	8	5	17.0	21 44	9	29.6
49	29.1	13.0	18 57	7	25.5		0.2	14.0	19 40	6.4	4	4	9	20 23	7.1	2	5	8	21 6	9	28.1	6	8	21 48	7	9	7	7	22 30	9.3	7
50	3	7	19 48	6.2	7		4	7	20 31	9	6	6	15.6	21 13	6	4	7	16.6	21 55	8.4	2	8	17.5	22 37	9.1	29.0	9	18.5	23 19	8	8
51	5	14.5	20 40	7	9		7	15.5	21 22	7.4	8	8	16.4	22 4	8.1	6	9	17.4	22 45	8	4	4.1	18.3	23 27	5	1	5.1	19.3	24 8	10.2	7
52	8	15.4	21 34	7.2	26.1		9	16.4	22 16	9	27.0	2.0	17.3	22 57	6	8	3.2	18.3	23 38	9.3	6	4	19.2	24 19	10.0	3	4	20.2	24 59	7	0.1
53	8	16.4	22 30	7	3		1.2	17.3	23 11	8.4	1	2	18.3	23 52	9.1	28.0	4	19.2	24 31	8	8	7	20.1	25 12	5	5	7	21.1	25 52	11.2	3
54	0.2	17.4	23 28	8.2	5		4	18.3	24 8	9	3	5	19.3	24 48	6	1	7	20.2	25 27	10.3	9	9	21.1	26 7	11.0	7	6.0	22.1	26 46	7	5
55	5	18.5	24 28	8	7		7	19.4	25 7	9.5	5	8	20.4	25 46	10.1	3	4.0	21.3	26 25	8	29.1	5.2	22.2	27 4	5	9	3	23.1	27 42	12.2	7
56	7	19.7	25 29	9.4	9		2.0	20.6	26 8	10.1	7	3.2	21.6	26 46	7	5	3	22.5	27 24	11.4	4	5	23.4	28 2	12.1	0.1	6	24.3	28 40	7	9

H. M. S. } $\times 28^\circ$					H. M. S. } $\times 29^\circ$					H. M. S. } $\times 30^\circ$					
SID. T. 23 52 40					23 56 20					24 0 0					
ARC 358° 9'.9					359° 5'.0					360° 0'.0					
H.	11	12	1	2	3	11	12	1	2	3	11	12	1	2	3
22	2.0	6.1	7.29	1.5	27.6	3.0	7.0	8.19	2.3	28.5	4.0	7.9	9.8	3.2	29.4
23	1	4	7.57	8	7	1	3	8.46	6	6	1	8.2	9.35	4	5
24	2	7	8.25	2.0	8	2	6	9.14	8	7	2	6.10	3	7	6
25	3	7.1	8.53	3	9	3	8.0	9.42	3.1	8	3	9.10	31	9	7
26	4	4	9.22	5	28.0	4	3	10.10	4	9	4	9.2	10.59	4.2	29.8
27	2.5	7	9.51	8	1	3.5	6	10.39	6	29.0	4.5	6	11.27	5	8
28	6	8.1	10.20	3.1	2	6	9.0	11.9	9	0	6	9	11.56	7	9
29	7	4	10.50	4	3	7	3	11.38	4.2	1	7	10.2	12.26	5.0	$\pi$
30	8	7	11.20	7	3	8	7	12.8	5	2	8	6	12.56	3	0.1
31	9	9.1	11.51	9	28.4	4.0	10.0	12.39	8	29.3	9	11.0	13.26	6	2
32	3.1	5	12.23	4.2	5	1	4	13.10	5.0	4	5.0	3	13.57	8	3
33	2	9	12.55	5	6	2	8	13.42	3	5	2	7	14.29	6.1	4
34	3	10.3	13.27	8	7	4	11.2	14.15	6	6	3	12.1	15.1	4	5
35	5	7	14.1	5.1	9	4.5	6	14.47	9	29.7	4	5	15.34	7	0.6
36	3.6	11.1	14.34	5	29.0	7	12.1	15.21	6.2	8	5.6	13.0	16.8	7.0	7
37	8	6	15.9	8	1	8	5	15.55	6	9	7	4	16.42	3	8
38	9	12.1	15.44	6.1	2	5.0	13.0	16.30	9	0.1	9	9	17.16	7	9
39	4.0	5	16.20	4	3	1	5	17.6	7.2	2	6.1	14.4	17.52	8.0	1.0
40	1	13.0	16.57	7	4	2	14.0	17.43	5	3	3	9	18.28	3	1
41	3	6	17.35	7.0	29.5	4	5	18.20	9	4	4	15.4	19.5	7	2
42	5	14.1	18.13	4	7	6	15.0	18.58	8.3	0.5	6	9	19.43	9.0	4
43	7	7	18.53	7	8	8	6	19.38	6	6	8	16.5	20.22	3	5
44	9	15.3	19.33	8.1	9	6.0	16.2	20.18	9.0	8	7.0	17.1	21.1	6	1.6
45	5.1	9	20.15	5	$\pi$	2	8	20.59	4	9	2	7	21.42	10.0	7
46	2	16.5	20.57	9	0.1	4	17.4	21.41	7	1.0	5	18.3	22.24	4	8
47	4	17.2	21.41	9.3	2	5	18.1	22.24	10.1	1	7	19.0	23.7	8	9
48	6	9	22.26	7	4	7	8	23.8	5	2	9	7	23.51	11.2	2.1
49	8	18.6	23.12	10.1	5	9	19.5	23.54	9	4	8.1	20.4	24.36	6	2
50	6.0	19.4	24.0	5	7	7.1	20.3	24.41	11.3	1.5	3	21.2	25.22	12.0	3
51	3	20.2	24.49	9	9	4	21.1	25.30	7	7	6	22.0	26.10	4	4
52	6	21.1	25.39	11.4	1.1	7	22.0	26.20	12.1	9	9	9	26.59	8	6
53	9	22.0	26.31	9	2	8.0	9	27.11	6	2.0	9.2	23.8	27.50	13.3	8
54	7.2	23.0	27.25	12.4	4	3	23.9	28.4	13.1	1	5	24.8	28.43	8	3.0
55	5	24.0	28.20	9	5	6	24.9	28.59	6	3	8	25.8	29.37	14.3	1
56	8	25.1	29.18	13.4	7	9	26.0	29.55	14.1	5	10.1	27.0	0.32	8	3

POSTSCRIPT.

As the tabular spherical basis here built fails to cover a considerable zone near the equator, and figures are often wanted for latitudes less than 22°, the formula for their calculation is added and can be used by any one a little versed in trigonometry; and any part of the Table may also be tested thereby.

(1) To the R. A.\* of the M. C. add 30°, 60°, or 90°, or so on, according to the place of the house in order from the meridian, which will give the oblique ascension of its cusp. Express this in distance, forward or backward, from  $\varphi$  0 or  $\pm$  0, whichever be the nearer, and call it  $d$ . Call the ecliptic obliquity  $O$ .

Then,  $\cos d \cot \text{pole} = \cot A$ .

And the sum, or difference, of  $A$  and  $O$  (according as  $d$  measures from  $\varphi$  or  $\pm$ ) =  $B$ .

Then,  $\sec B \cos A \tan d = \tan \text{long. required}$ , to be reckoned from  $\varphi$  or  $\pm$  as  $d$  was; unless  $B$  exceed 90°, when the longitude is reckoned from the opposite equinox, reversely.

For South latitude, first add 180° to the R. A. of the M. C., and proceed as above; but in the final result put opposite zodiacal signs for those found on the minor houses.

The poles below latitude 10° are given in the annexed extension to the equator of table D.

Lat.	11th and 3d H.	12th and 2d H.
0	0 0	0 0
1	0 20.0	0 40.0
4	1 20.1	2 40.2
7	2 20.7	4 40.8
10	3 21.9	6 42.4

(2) On the equator the previous formula becomes simply  $\frac{\tan d}{\cos O} = \tan \text{long.}$  to be reckoned as above.

Hence a better method than the other would be to compute the longitude for latitude 0, and then interpolate by trial between that and 22°, by aid of the tabular differences in each column. It can often be done by mere inspection. In this way any part of the Table can be completed to the equator with sufficient accuracy, as interpolation in that interval is easy.

For latitudes from 56° to 60°, follow precepts and formula of Art. (1). Interpolation for such high latitudes is not so simple, but should allow for second differences in using table D.

For latitude more than 60° special calculations must be made.

J. G. D.

July, 1903.

\* To convert ecliptic longitude into R. A., express the long. in distance (forward) from the nearest cardinal point; then, if from  $\varphi$  or  $\pm$ ,  $\tan \text{R. A.} = \tan \text{long.} \cos O$ ; if from  $\varpi$  or  $\nu$ , use  $\cot$  instead of  $\tan$ .

TABLES OF HOUSES FOR Latitude 57° 9' N.

Table with 10 columns: Sidereal Time, H. M. S., and Ascension for 2, 3, and 4 houses. It contains numerical data for various sidereal times from 0 to 24 hours.

TABLES OF HOUSES FOR Latitude 57° 9' N.

Table with 10 columns: Sidereal Time, H. M. S., and Ascension for 2, 3, and 4 houses. It contains numerical data for various sidereal times from 0 to 24 hours.

Table with 10 columns: Sidereal Time, H. M. S., and Ascension for 2, 3, and 4 houses. It contains numerical data for various sidereal times from 0 to 24 hours.

TABLES OF HOUSES FOR

Latitude 57° 29' N.

Table with 12 columns: Sidereal Time, H. M. S., Ascension, Right Ascension, Declination, etc. for Latitude 57° 29' N.

TABLES OF HOUSES FOR

Latitude 57° 29' N.

Table with 12 columns: Sidereal Time, H. M. S., Ascension, Right Ascension, Declination, etc. for Latitude 57° 29' N.

TABLES OF HOUSES FOR Latitude 58° 27' N.

Table with 12 columns: Sidereal Time, H. M. S., and Ascension for 10, 11, 12, and 13 hours. It lists sidereal times and corresponding hour, minute, and second values for each hour.

TABLES OF HOUSES FOR Latitude 58° 27' N.

Table with 12 columns: Sidereal Time, H. M. S., and Ascension for 10, 11, 12, and 13 hours. It lists sidereal times and corresponding hour, minute, and second values for each hour.

Latitude 59° 0' N.

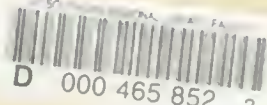
TABLES OF HOUSES FOR

Sideraal 10 11 12 Ascen 2 3			Sideraal 10 11 12 Ascen 2 3			Sideraal 10 11 12 Ascen 2 3		
Time	h	m	Time	h	m	Time	h	m
0 0	0	0	12 0	0	0	24 0	0	0
0 3	40	11	12 3	40	11	24 3	40	11
0 7	20	21	12 7	20	21	24 7	20	21
0 11	1	31	12 11	1	31	24 11	1	31
0 15	41	3	12 15	41	3	24 15	41	3
0 19	21	13	12 19	21	13	24 19	21	13
0 23	51	23	12 23	51	23	24 23	51	23
0 27	1	33	12 27	1	33	24 27	1	33
0 31	31	43	12 31	31	43	24 31	31	43
0 35	61	53	12 35	61	53	24 35	61	53
0 39	1	3	12 39	1	3	24 39	1	3
0 43	31	13	12 43	31	13	24 43	31	13
0 47	61	23	12 47	61	23	24 47	61	23
0 51	1	33	12 51	1	33	24 51	1	33
0 55	31	43	12 55	31	43	24 55	31	43
0 59	61	53	12 59	61	53	24 59	61	53
1 0	1	3	13 0	1	3	25 0	1	3
1 4	31	13	13 4	31	13	25 4	31	13
1 8	61	23	13 8	61	23	25 8	61	23
1 12	1	33	13 12	1	33	25 12	1	33
1 16	31	43	13 16	31	43	25 16	31	43
1 20	61	53	13 20	61	53	25 20	61	53
1 24	1	3	13 24	1	3	25 24	1	3
1 28	31	13	13 28	31	13	25 28	31	13
1 32	61	23	13 32	61	23	25 32	61	23
1 36	1	33	13 36	1	33	25 36	1	33
1 40	31	43	13 40	31	43	25 40	31	43
1 44	61	53	13 44	61	53	25 44	61	53
1 48	1	3	13 48	1	3	25 48	1	3
1 52	31	13	13 52	31	13	25 52	31	13
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