LATITUDE CONTRARY NAME TO DECLINATION L.H.A. 32°, 328°

Dec. °	23° Hc ° ′	d ′	Z °	24° Hc ° ′	d ′	Z °	25° Hc ° ′	d ′	Z °	26° Hc ° ′	d ′	Z °	27° Hc ° ′	d ′	Z °	28° Hc ° ′	d ′	Z °	29° Hc ° ′	d ′	Z °	30° Hc ° ′	d ′	Z °	Dec. °
0	51 19.1	−37.9	122.0	50 46.8	−38.9	123.1	50 13.7	−40.0	124.1	49 39.6	−40.9	125.1	49 04.8	−41.9	126.0	48 29.1	−42.8	126.9	47 52.7	−43.7	127.8	47 15.6	−44.5	128.7	0
1	50 41.2	−38.7	123.2	50 07.9	−39.7	124.3	49 33.7	−40.7	125.2	48 58.7	−41.6	126.2	48 22.9	−42.5	127.1	47 46.3	−43.3	128.0	47 09.0	−44.1	128.8	46 31.1	−45.0	129.6	1
2	50 02.5	−39.3	124.4	49 28.2	−40.4	125.4	48 53.0	−41.3	126.4	48 17.1	−42.2	127.3	47 40.4	−43.1	128.1	47 03.0	−43.9	129.0	46 24.9	−44.7	129.8	45 46.1	−45.4	130.6	2
3	49 23.2	−40.1	125.6	48 47.8	−41.0	126.5	48 11.7	−41.9	127.5	47 34.9	−42.8	128.3	46 57.3	−43.6	129.2	46 19.1	−44.4	130.0	45 40.2	−45.1	130.8	45 00.7	−45.8	131.5	3
4	48 43.1	−40.7	126.8	48 06.8	−41.6	127.6	47 29.8	−42.5	128.5	46 52.1	−43.3	129.4	46 13.7	−44.1	130.2	45 34.7	−44.9	131.0	44 55.1	−45.6	131.7	44 14.9	−46.3	132.4	4
5	48 02.4	−41.4	127.9	47 25.2	−42.2	128.7	46 47.3	−43.0	129.6	46 08.8	−43.8	130.4	45 29.6	−44.6	131.1	44 49.8	−45.3	131.9	44 09.5	−46.0	132.6	43 28.6	−46.7	133.3	5
6	47 21.0	−41.9	128.9	46 43.0	−42.8	129.8	46 04.3	−43.6	130.6	45 25.0	−44.4	131.3	44 45.0	−45.0	132.1	44 04.5	−45.7	132.8	43 23.5	−46.4	133.5	42 41.9	−47.0	134.2	6
7	46 39.1	−42.5	130.0	46 00.2	−43.3	130.8	45 20.7	−44.0	131.6	44 40.6	−44.7	132.3	44 00.0	−45.5	133.0	43 18.8	−46.2	133.7	42 37.1	−46.8	134.4	41 54.9	−47.4	135.0	7
8	45 56.6	−43.0	131.0	45 16.9	−43.7	131.8	44 36.7	−44.5	132.5	43 55.9	−45.3	133.2	43 14.5	−45.9	133.9	42 32.6	−46.5	134.6	41 50.3	−47.2	135.2	41 07.5	−47.8	135.8	8
9	45 13.6	−43.5	132.0	44 33.2	−44.3	132.7	43 52.2	−45.0	133.4	43 10.6	−45.6	134.1	42 28.6	−46.3	134.8	41 46.1	−46.9	135.4	41 03.1	−47.5	136.0	40 19.7	−48.0	136.6	9
10	44 30.1	−44.0	133.0	43 48.9	−44.7	133.7	43 07.2	−45.4	134.4	42 25.0	−46.0	135.0	41 42.3	−46.6	135.7	40 59.2	−47.3	136.3	40 15.6	−47.8	136.9	39 31.7	−48.4	137.4	10
11	43 46.1	−44.5	133.9	43 04.2	−45.2	134.6	42 21.8	−45.8	135.3	41 39.0	−46.5	135.9	40 55.7	−47.0	136.5	40 11.9	−47.5	137.1	39 27.8	−48.1	137.6	38 43.3	−48.7	138.2	11
12	43 01.6	−44.9	134.8	42 19.0	−45.5	135.5	41 36.0	−46.2	136.1	40 52.5	−46.7	136.7	40 08.7	−47.4	137.3	39 24.4	−47.9	137.9	38 39.7	−48.5	138.4	37 54.6	−48.9	138.9	12
13	42 16.7	−45.3	135.7	41 33.5	−46.0	136.4	40 49.8	−46.5	137.0	40 05.8	−47.1	137.5	39 21.3	−47.7	138.1	38 36.5	−48.2	138.6	37 51.2	−48.7	139.2	37 05.7	−49.2	139.7	13
14	41 31.4	−45.7	136.6	40 47.5	−46.3	137.2	40 03.3	−46.9	137.8	39 18.7	−47.5	138.4	38 33.6	−47.9	138.9	37 48.3	−48.5	139.4	37 02.5	−49.0	139.9	36 16.5	−49.5	140.4	14
15	40 45.7	−46.1	137.5	40 01.2	−46.6	138.1	39 16.4	−47.2	138.6	38 31.2	−47.7	139.1	37 45.7	−48.3	139.6	36 59.8	−48.8	140.1	36 13.5	−49.2	140.6	35 27.0	−49.7	141.1	15
16	39 59.6	−46.5	138.3	39 14.6	−47.0	138.9	38 29.2	−47.5	139.4	37 43.5	−48.1	139.9	36 57.4	−48.6	140.4	36 11.0	−49.0	140.9	35 24.3	−49.5	141.3	34 37.3	−49.9	141.8	16
17	39 13.1	−46.8	139.1	[illegible]			37 41.7	−47.9	140.2	36 55.4	−48.3	140.7	36 08.8	−48.8	141.1	35 22.0	−49.3	141.6	34 34.8	−49.7	142.0	33 47.4	−50.1	142.4	17
18	38 26.3	−47.1	140.0	37 40.2	−47.6	140.5	36 53.8	−48.1	140.9	36 07.1	−48.6	141.4	35 20.0	−49.0	141.8	34 32.7	−49.5	142.3	33 45.1	−49.9	142.7	32 57.3	−50.3	143.1	18
19	37 39.2	−47.4	140.7	36 52.6	−47.9	141.2	36 05.7	−48.4	141.7	35 18.5	−48.9	142.1	34 31.0	−49.3	142.5	33 43.2	−49.7	143.0	32 55.2	−50.1	143.4	32 07.0	−50.6	143.7	19
20	36 51.8	−47.7	141.5	[illegible]			35 17.3	−48.6	142.4	34 29.6	−49.0	142.8	33 41.7	−49.5	143.2	32 53.5	−49.9	143.6	32 05.1	−50.3	144.0	31 16.4	−50.7	144.4	20
21	36 04.1	−47.9	142.3	35 16.5	−48.4	142.7	34 28.7	−48.9	143.1	33 40.6	−49.4	143.5	32 52.2	−49.7	143.9	32 03.6	−50.1	144.3	31 14.8	−50.5	144.6	30 25.7	−50.9	145.0	21
22	35 16.2	−48.3	143.0	34 28.1	−48.7	143.4	33 39.8	−49.1	143.8	32 51.2	−49.5	144.2	32 02.5	−50.0	144.6	31 13.5	−50.4	144.9	30 24.3	−50.7	145.3	29 34.8	−51.0	145.6	22
23	34 27.9	−48.5	143.7	33 39.4	−48.9	144.1	32 50.7	−49.4	144.5	32 01.7	−49.7	144.9	31 12.5	−50.1	145.2	30 23.1	−50.4	145.6	29 33.6	−50.9	145.9	28 43.8	−51.2	146.2	23
24	33 39.4	−48.7	144.4	32 50.5	−49.2	144.8	32 01.3	−49.5	145.2	31 12.0	−50.0	145.5	30 22.4	−50.3	145.9	29 32.7	−50.7	146.2	28 42.7	−51.0	146.5	27 52.6	−51.4	146.8	24
25	32 50.7	−49.0	145.1	32 01.3	−49.3	145.5	31 11.8	−49.8	145.8	30 22.0	−50.1	146.2	29 32.1	−50.5	146.5	28 42.0	−50.8	146.8	27 51.7	−51.2	147.1	27 01.2	−51.5	147.4	25
26	32 01.7	−49.2	145.8	31 12.0	−49.6	146.2	30 22.0	−49.9	146.5	29 31.9	−50.3	146.8	28 41.6	−50.6	147.1	27 51.2	−51.0	147.4	27 00.5	−51.3	147.7	26 09.7	−51.6	148.0	26
27	31 12.5	−49.4	146.5	30 22.4	−49.7	146.8	29 32.1	−50.1	147.1	28 41.6	−50.4	147.4	27 51.0	−50.8	147.7	27 00.2	−51.2	148.0	26 09.2	−51.4	148.3	25 18.1	−51.7	148.5	27
28	30 23.1	−49.5	147.2	29 32.7	−50.0	147.5	28 42.0	−50.3	147.8	27 51.2	−50.7	148.0	27 00.2	−51.0	148.3	26 09.0	−51.2	148.6	25 17.8	−51.6	148.8	24 26.4	−51.9	149.1	28
29	29 33.6	−49.8	147.8	28 42.7	−50.1	148.1	27 51.7	−50.5	148.4	27 00.5	−50.8	148.7	26 09.2	−51.1	148.9	25 17.8	−51.4	149.2	24 26.2	−51.7	149.4	23 34.5	−52.0	149.6	29
30	28 43.8	−50.0	148.4	27 52.6	−50.3	148.7	27 01.2	−50.6	149.0	26 09.7	−50.9	149.2	25 18.1	−51.2	149.5	24 26.4	−51.6	149.7	23 34.5	−51.8	150.0	22 42.5	−52.1	150.2	30
31	27 53.8	−50.1	149.1	27 02.3	−50.4	149.3	26 10.6	−50.7	149.6	25 18.8	−51.0	149.8	24 26.9	−51.4	150.1	23 34.8	−51.6	150.3	22 42.7	−52.0	150.5	21 50.4	−52.2	150.7	31
32	27 03.7	−50.2	149.7	26 11.9	−50.6	149.9	25 19.9	−50.9	150.2	24 27.8	−51.2	150.4	23 35.5	−51.5	150.6	22 43.2	−51.8	150.8	21 50.7	−52.0	151.0	20 58.2	−52.3	151.2	32
33	26 13.5	−50.5	150.3	25 21.3	−50.8	150.5	24 29.0	−51.1	150.8	23 36.6	−51.4	151.0	22 44.0	−51.6	151.2	21 51.4	−51.9	151.4	20 58.7	−52.1	151.6	20 05.9	−52.4	151.8	33
34	25 23.0	−50.5	150.9	24 30.5	−50.8	151.1	23 37.9	−51.1	151.3	22 45.2	−51.4	151.5	21 52.4	−51.7	151.7	20 59.5	−51.9	151.9	20 06.6	−52.3	152.1	19 13.5	−52.5	152.3	34
35	24 32.5	−50.8	151.5	23 39.7	−51.0	151.7	22 46.8	−51.3	151.9	21 53.8	−51.5	152.1	21 00.7	−51.8	152.3	20 07.6	−52.1	152.5	19 14.3	−52.3	152.6	18 21.0	−52.6	152.8	35
36	23 41.7	−50.8	152.1	22 48.7	−51.1	152.3	21 55.5	−51.4	152.5	21 02.3	−51.7	152.7	20 08.9	−51.9	152.8	19 15.5	−52.2	153.0	18 22.0	−52.4	153.1	17 28.4	−52.6	153.3	36
37	22 50.9	−51.0	152.7	21 57.6	−51.3	152.9	21 04.1	−51.5	153.0	20 10.6	−51.7	153.2	19 17.0	−52.0	153.4	18 23.3	−52.2	153.5	17 29.6	−52.5	153.7	16 35.8	−52.7	153.8	37
38	21 59.9	−51.0	153.2	21 06.3	−51.3	153.4	20 12.6	−51.6	153.6	19 18.9	−51.9	153.7	18 25.0	−52.1	153.9	17 31.1	−52.3	154.0	16 37.1	−52.5	154.2	15 43.1	−52.8	154.3	38
39	21 08.9	−51.2	153.8	20 15.0	−51.5	154.0	19 21.0	−51.7	154.1	18 27.0	−51.9	154.3	17 32.9	−52.1	154.4	16 38.8	−52.4	154.5	15 44.6	−52.6	154.7	14 50.3	−52.8	154.8	39
40	20 17.7	−51.3	154.4	19 23.5	−51.5	154.5	18 29.3	−51.7	154.7	17 35.1	−52.0	154.8	16 40.8	−52.3	154.9	15 46.4	−52.5	155.1	14 52.0	−52.7	155.2	13 57.5	−52.9	155.3	40
41	19 26.4	−51.4	154.9	18 32.0	−51.6	155.1	17 37.6	−51.9	155.2	16 43.1	−52.1	155.3	15 48.5	−52.3	155.4	14 53.9	−52.5	155.6	13 59.3	−52.8	155.7	13 04.6	−53.0	155.8	41
42	18 35.0	−51.5	155.5	17 40.4	−51.8	155.6	16 45.7	−52.0	155.7	15 51.0	−52.2	155.8	14 56.2	−52.4	155.9	14 01.4	−52.6	156.1	13 06.5	−52.8	156.1	12 11.6	−53.0	156.2	42
43	17 43.5	−51.6	156.0	16 48.6	−51.8	156.1	15 53.7	−52.0	156.2	14 58.8	−52.2	156.3	14 03.8	−52.4	156.5	13 08.8	−52.6	156.5	12 13.7	−52.8	156.6	11 18.6	−53.0	156.7	43
44	16 51.9	−51.7	156.5	15 56.8	−51.8	156.6	15 01.7	−52.1	156.8	14 06.6	−52.3	156.9	13 11.4	−52.5	157.0	12 16.2	−52.7	157.0	11 20.9	−52.9	157.1	10 25.6	−53.1	157.2	44
45	16 00.2	−51.7	157.1	15 05.0	−52.0	157.2	14 09.6	−52.1	157.3	13 14.3	−52.4	157.4	12 18.9	−52.6	157.4	11 23.5	−52.8	157.5	10 28.0	−52.9	157.6	9 32.5	−53.1	157.7	45
46	15 08.5	−51.8	157.6	14 13.0	−52.0	157.7	13 17.5	−52.2	157.8	12 21.9	−52.4	157.9	11 26.3	−52.6	157.9	10 30.7	−52.8	158.0	9 35.1	−53.0	158.1	8 39.4	−53.2	158.1	46
47	14 16.7	−51.9	158.1	13 21.0	−52.1	158.2	12 25.3	−52.3	158.3	11 29.5	−52.4	158.4	10 33.7	−52.6	158.4	9 37.9	−52.8	158.5	8 42.1	−53.0	158.6	7 46.2	−53.2	158.6	47
48	13 24.8	−51.9	158.6	12 28.9	−52.1	158.7	11 33.0	−52.3	158.8	10 37.1	−52.6	158.9	9 41.1	−52.7	158.9	8 45.1	−52.9	159.0	7 49.1	−53.1	159.0	6 53.0	−53.2	159.1	48
49	12 32.9	−52.0	159.1	11 36.8	−52.2	159.2	10 40.7	−52.4	159.3	9 44.5	−52.5	159.3	8 48.4	−52.7	159.4	7 52.2	−52.9	159.5	6 56.0	−53.0	159.5	5 59.8	−53.2	159.5	49
50	11 40.9	−52.1	159.6	10 44.6	−52.2	159.7	9 48.3	−52.4	159.8	8 52.0	−52.6	159.8	7 55.7	−52.8	159.9	6 59.3	−52.9	159.9	6 03.0	−53.1	160.0	5 06.6	−53.3	160.0	50
51	10 48.8	−52.1	160.2	9 52.4	−52.3	160.2	8 55.9	−52.5	160.3	7 59.4	−52.6	160.3	7 02.9	−52.8	160.4	6 06.4	−53.0	160.4	5 09.9	−53.2	160.4	4 13.3	−53.3	160.5	51
52	9 56.7	−52.1	160.7	9 00.1	−52.3	160.7	8 03.4	−52.4	160.8	7 06.8	−52.7	160.8	6 10.1	−52.8	160.8	5 13.4	−52.9	160.9	4 16.7	−53.1	160.9	3 20.0	−53.3	160.9	52
53	9 04.6	−52.2	161.2	8 07.8	−52.4	161.2	7 11.0	−52.6	161.3	6 14.1	−52.6	161.3	5 17.3	−52.8	161.3	4 20.5	−53.0	161.3	3 23.6	−53.1	161.4	2 26.7	−53.3	161.4	53
54	8 12.4	−52.3	161.7	7 15.4	−52.4	161.7	6 18.4	−52.5	161.7	5 21.5	−52.7	161.8	4 24.5	−52.9	161.8	3 27.5	−53.0	161.8	2 30.5	−53.2	161.8	1 33.4	−53.3	161.8	54
55	7 20.1	−52.2	162.2	6 23.0	−52.4	162.2	5 25.9	−52.6	162.2	4 28.8	−52.8	162.2	3 31.6	−52.9	162.3	2 34.5	−53.1	162.3	1 37.3	−53.2	162.3	0 40.1	−53.3	162.3	55
56	6 27.9	−52.3	162.6	5 30.6	−52.4	162.7	4 33.3	−52.6	162.7	3 36.0	−52.7	162.7	2 38.7	−52.8	162.7	1 41.4	−53.0	162.8	0 44.1	−53.1	162.8	0 13.2	+53.3	17.2	56
57	5 35.6	−52.3	163.1	4 38.2	−52.5	163.2	3 40.7	−52.6	163.2	2 43.3	−52.7	163.2	1 45.9	−52.9	163.2	0 48.4	−53.0	163.2	0 09.0	+53.2	16.8	1 06.5	+53.3	16.8	57
58	4 43.3	−52.3	163.6	3 45.7	−52.5	163.7	2 48.1	−52.6	163.7	1 50.6	−52.8	163.7	0 53.0	−52.9	163.7	0 04.6	+53.0	16.3	1 02.2	+53.2	16.3	1 59.8	+53.3	16.3	58
59	3 51.0	−52.4	164.1	2 53.2	−52.4	164.1	1 55.5	−52.6	164.2	0 57.8	−52.7	164.2	0 00.1	−52.9	164.2	0 57.6	+53.1	15.8	1 55.4	+53.1	15.8	2 53.1	+53.3	15.9	59
60	2 58.6	−52.3	164.6	2 00.8	−52.5	164.6	1 02.9	−52.6	164.6	0 05.1	−52.8	164.6	0 52.8	+52.9	15.4	1 50.7	+53.0	15.4	2 48.5	+53.2	15.4	3 46.4	+53.2	15.4	60
61	2 06.3	−52.4	165.1	1 08.3	−52.5	165.1	0 10.3	−52.6	165.1	0 47.7	+52.8	14.9	1 45.7	+52.9	14.9	2 43.7	+53.0	14.9	3 41.7	+53.1	14.9	4 39.6	+53.3	14.9	61
62	1 13.9	−52.4	165.6	0 15.8	−52.5	165.6	0 42.3	+52.7	14.4	1 40.5	+52.7	14.4	2 38.6	+52.8	14.4	3 36.7	+53.0	14.4	4 34.8	+53.1	14.5	5 32.9	+53.2	14.5	62
63	0 21.5	−52.4	166.1	0 36.7	+52.5	13.9	1 35.0	+52.6	13.9	2 33.2	+52.7	13.9	3 31.4	+52.9	13.9	4 29.7	+52.9	14.0	5 27.9	+53.1	14.0	6 26.1	+53.2	14.0	63
64	0 30.9	+52.3	13.4	1 29.2	+52.5	13.4	2 27.6	+52.6	13.4	3 25.9	+52.8	13.5	4 24.3	+52.8	13.5	5 22.6	+53.0	13.5	6 21.0	+53.0	13.5	7 19.3	+53.2	13.5	64
65	1 23.2	+52.4	12.9	2 21.7	+52.5	13.0	3 20.2	+52.6	13.0	4 18.7	+52.7	13.0	5 17.1	+52.8	13.0	6 15.6	+52.9	13.0	7 14.0	+53.1	13.0	8 12.5	+53.1	13.1	65
66	2 15.6	+52.4	12.5	3 14.2	+52.5	12.5	4 12.8	+52.6	12.5	5 11.4	+52.6	12.5	6 09.9	+52.8	12.5	7 08.5	+52.9	12.5	8 07.1	+53.0	12.6	9 05.6	+53.1	12.6	66
67	3 08.0	+52.3	12.0	4 06.7	+52.4	12.0	5 05.4	+52.5	12.0	6 04.0	+52.7	12.0	7 02.7	+52.8	12.0	8 01.4	+52.9	12.1	9 00.1	+52.9	12.1	9 58.7	+53.1	12.1	67
68	4 00.3	+52.3	11.5	4 59.1	+52.4	11.5	5 57.9	+52.5	11.5	6 56.7	+52.6	11.5	7 55.5	+52.7	11.6	8 54.3	+52.8	11.6	9 53.0	+53.0	11.6	10 51.8	+53.0	11.7	68
69	4 52.6	+52.4	11.0	5 51.5	+52.4	11.0	6 50.4	+52.5	11.0	7 49.3	+52.6	11.1	8 48.2	+52.7	11.1	9 47.1	+52.8	11.1	10 46.0	+52.8	11.1	11 44.8	+53.0	11.2	69
70	5 45.0	+52.2	10.5	6 43.9	+52.4	10.5	7 42.9	+52.5	10.5	8 41.9	+52.6	10.6	9 40.9	+52.7	10.6	10 39.9	+52.7	10.6	11 38.8	+52.9	10.7	12 37.8	+52.9	10.7	70
71	6 37.2	+52.3	10.0	7 36.3	+52.4	10.0	8 35.4	+52.4	10.0	9 34.5	+52.5	10.1	10 33.6	+52.6	10.1	11 32.6	+52.7	10.1	12 31.7	+52.8	10.2	13 30.7	+52.9	10.2	71
72	7 29.5	+52.2	9.5	8 28.7	+52.3	9.5	9 27.8	+52.4	9.6	10 27.0	+52.5	9.6	11 26.2	+52.5	9.6	12 25.3	+52.6	9.7	13 24.5	+52.7	9.7	14 23.6	+52.8	9.7	72
73	8 21.7	+52.2	9.0	9 21.0	+52.2	9.0	10 20.2	+52.4	9.1	11 19.5	+52.4	9.1	12 18.7	+52.5	9.1	13 17.9	+52.6	9.2	14 17.2	+52.6	9.2	15 16.4	+52.7	9.2	73
74	9 13.9	+52.1	8.5	10 13.2	+52.2	8.5	11 12.6	+52.3	8.6	12 11.9	+52.4	8.6	13 11.2	+52.5	8.6	14 10.5	+52.5	8.7	15 09.8	+52.6	8.7	16 09.1	+52.7	8.7	74
75	10 06.0	+52.1	8.0	11 05.4	+52.2	8.0	12 04.9	+52.2	8.1	13 04.3	+52.3	8.1	14 03.7	+52.3	8.1	15 03.0	+52.5	8.2	16 02.4	+52.6	8.2	17 01.8	+52.6	8.2	75
76	10 58.1	+52.1	7.5	11 57.6	+52.1	7.5	12 57.1	+52.2	7.6	13 56.6	+52.2	7.6	14 56.0	+52.3	7.6	15 55.5	+52.4	7.7	16 55.0	+52.4	7.7	17 54.4	+52.5	7.7	76
77	11 50.2	+52.0	7.0	12 49.7	+52.1	7.0	13 49.3	+52.1	7.1	14 48.8	+52.2	7.1	15 48.3	+52.3	7.1	16 47.9	+52.3	7.2	17 47.4	+52.4	7.2	18 46.9	+52.5	7.2	77
78	12 42.2	+51.9	6.5	13 41.8	+52.0	6.5	14 41.4	+52.0	6.5	15 41.0	+52.1	6.6	16 40.6	+52.2	6.6	17 40.2	+52.2	6.6	18 39.8	+52.3	6.7	19 39.4	+52.3	6.7	78
79	13 34.1	+51.9	6.0	14 33.8	+51.9	6.0	15 33.4	+52.0	6.0	16 33.1	+52.0	6.1	17 32.8	+52.0	6.1	18 32.4	+52.2	6.1	19 32.1	+52.2	6.2	20 31.7	+52.3	6.2	79
80	14 26.0	+51.7	5.5	15 25.7	+51.8	5.5	16 25.4	+51.9	5.5	17 25.1	+52.0	5.5	18 24.8	+52.0	5.6	19 24.6	+52.0	5.6	20 24.3	+52.1	5.6	21 24.0	+52.1	5.7	80
81	15 17.7	+51.8	4.9	16 17.5	+51.8	5.0	17 17.3	+51.8	5.0	18 17.1	+51.8	5.0	19 16.8	+52.0	5.0	20 16.6	+52.0	5.1	21 16.4	+52.0	5.1	22 16.1	+52.1	5.1	81
82	16 09.5	+51.6	4.4	17 09.3	+51.7	4.4	18 09.1	+51.7	4.5	19 08.9	+51.8	4.5	20 08.8	+51.8	4.5	21 08.6	+51.8	4.5	22 08.4	+51.9	4.6	23 08.2	+51.9	4.6	82
83	17 01.1	+51.6	3.9	18 01.0	+51.6	3.9	19 00.8	+51.7	3.9	20 00.7	+51.7	3.9	21 00.6	+51.7	4.0	22 00.4	+51.8	4.0	23 00.3	+51.8	4.0	24 00.1	+51.8	4.1	83
84	17 52.7	+51.5	3.3	18 52.6	+51.5	3.4	19 52.5	+51.5	3.4	20 52.4	+51.5	3.4	21 52.3	+51.6	3.4	22 52.2	+51.6	3.4	23 52.1	+51.6	3.5	24 51.9	+51.7	3.5	84
85	18 44.2	+51.3	2.8	19 44.1	+51.4	2.8	20 44.0	+51.4	2.8	21 43.9	+51.5	2.8	22 43.9	+51.4	2.9	23 43.8	+51.5	2.9	24 43.7	+51.5	2.9	25 43.6	+51.6	2.9	85
86	19 35.5	+51.3	2.2	20 35.5	+51.3	2.3	21 35.4	+51.4	2.3	22 35.4	+51.3	2.3	23 35.3	+51.4	2.3	24 35.3	+51.4	2.3	25 35.2	+51.5	2.3	26 35.2	+51.4	2.4	86
87	20 26.8	+51.2	1.7	21 26.8	+51.2	1.7	22 26.8	+51.2	1.7	23 26.7	+51.3	1.7	24 26.7	+51.2	1.7	25 26.7	+51.2	1.8	26 26.7	+51.2	1.8	27 26.6	+51.3	1.8	87
88	21 18.0	+51.1	1.1	22 18.0	+51.1	1.1	23 18.0	+51.0	1.2	24 18.0	+51.0	1.2	25 17.9	+51.1	1.2	26 17.9	+51.1	1.2	27 17.9	+51.1	1.2	28 17.9	+51.1	1.2	88
89	22 09.1	+50.9	0.6	23 09.1	+50.9	0.6	24 09.0	+51.0	0.6	25 09.0	+51.0	0.6	26 09.0	+51.0	0.6	27 09.0	+51.0	0.6	28 09.0	+51.0	0.6	29 09.0	+51.0	0.6	89
90	23 00.0	+50.8	0.0	24 00.0	+50.8	0.0	25 00.0	+50.8	0.0	26 00.0	+50.8	0.0	27 00.0	+50.8	0.0	28 00.0	+50.8	0.0	29 00.0	+50.8	0.0	30 00.0	+50.8	0.0	90
	23°			24°			25°			26°			27°			28°			29°			30°			

S. Lat. { L.H.A. greater than 180°.....Zn=Z
L.H.A. less than 180°.....Zn=180°+Z

LATITUDE SAME NAME AS DECLINATION L.H.A. 148°, 212°