2003 MAR. 18, 19, 20 (TUE, WED, THU)

G.M.T d h	ARIES GHA ° '	VENUS GHA ° '	VENUS Dec ° '	MARS GHA ° '	MARS Dec ° '	JUPITER GHA ° '	JUPITER Dec ° '	SATURN GHA ° '	SATURN Dec ° '
18 0	175 08.6	214 20.4	S15 26.0	256 03.6	S23 30.2	43 56.8	N18 59.2	93 04.5	N22 12.1
1	190 11.0	229 19.9	S15 25.3	271 04.3	S23 30.2	58 59.4	N18 59.2	108 06.9	N22 12.1
2	205 13.5	244 19.4	S15 24.5	286 05.1	S23 30.1	74 02.0	N18 59.2	123 09.2	N22 12.1
3	220 16.0	259 18.9	S15 23.7	301 05.8	S23 30.1	89 04.6	N18 59.3	138 11.6	N22 12.2
4	235 18.4	274 18.3	S15 22.9	316 06.6	S23 30.0	104 07.2	N18 59.3	153 13.9	N22 12.2
T 5	250 20.9	289 17.8	S15 22.1	331 07.3	S23 30.0	119 09.8	N18 59.3	168 16.3	N22 12.2
U									
E 6	265 23.3	304 17.3	S15 21.4	346 08.0	S23 29.9	134 12.4	N18 59.4	183 18.6	N22 12.2
S 7	280 25.8	319 16.8	S15 20.6	1 08.8	S23 29.9	149 15.0	N18 59.4	198 20.9	N22 12.2
D 8	295 28.3	334 16.3	S15 19.8	16 09.5	S23 29.8	164 17.6	N18 59.4	213 23.3	N22 12.2
A 9	310 30.7	349 15.7	S15 19.0	31 10.3	S23 29.8	179 20.2	N18 59.5	228 25.6	N22 12.2
Y 10	325 33.2	4 15.2	S15 18.2	46 11.0	S23 29.7	194 22.8	N18 59.5	243 28.0	N22 12.3
11	340 35.7	19 14.7	S15 17.4	61 11.8	S23 29.7	209 25.4	N18 59.5	258 30.3	N22 12.3
12	355 38.1	34 14.2	S15 16.6	76 12.5	S23 29.6	224 28.0	N18 59.6	273 32.7	N22 12.3
13	10 40.6	49 13.7	S15 15.9	91 13.2	S23 29.6	239 30.6	N18 59.6	288 35.0	N22 12.3
14	25 43.1	64 13.1	S15 15.1	106 14.0	S23 29.5	254 33.2	N18 59.6	303 37.4	N22 12.3
15	40 45.5	79 12.6	S15 14.3	121 14.7	S23 29.5	269 35.8	N18 59.7	318 39.7	N22 12.3
16	55 48.0	94 12.1	S15 13.5	136 15.5	S23 29.4	284 38.4	N18 59.7	333 42.1	N22 12.3
17	70 50.5	109 11.6	S15 12.7	151 16.2	S23 29.4	299 41.0	N18 59.7	348 44.4	N22 12.4
18	85 52.9	124 11.1	S15 11.9	166 17.0	S23 29.3	314 43.6	N18 59.8	3 46.7	N22 12.4
19	100 55.4	139 10.6	S15 11.1	181 17.7	S23 29.3	329 46.2	N18 59.8	18 49.1	N22 12.4
20	115 57.8	154 10.0	S15 10.3	196 18.4	S23 29.2	344 48.8	N18 59.8	33 51.4	N22 12.4
21	131 00.3	169 09.5	S15 09.5	211 19.2	S23 29.1	359 51.4	N18 59.9	48 53.8	N22 12.4
22	146 02.8	184 09.0	S15 08.7	226 19.9	S23 29.1	14 54.0	N18 59.9	63 56.1	N22 12.4
23	161 05.2	199 08.5	S15 07.9	241 20.7	S23 29.0	29 56.6	N18 59.9	78 58.5	N22 12.4
19 0	176 07.7	214 08.0	S15 07.1	256 21.4	S23 29.0	44 59.2	N18 60.0	94 00.8	N22 12.5
1	191 10.2	229 07.5	S15 06.3	271 22.2	S23 28.9	60 01.8	N18 60.0	109 03.1	N22 12.5
2	206 12.6	244 06.9	S15 05.5	286 22.9	S23 28.9	75 04.4	N19 00.0	124 05.5	N22 12.5
3	221 15.1	259 06.4	S15 04.7	301 23.6	S23 28.8	90 06.9	N19 00.1	139 07.8	N22 12.5
4	236 17.6	274 05.9	S15 03.9	316 24.4	S23 28.8	105 09.5	N19 00.1	154 10.2	N22 12.5
W 5	251 20.0	289 05.4	S15 03.1	331 25.1	S23 28.7	120 12.1	N19 00.1	169 12.5	N22 12.5
E									
D 6	266 22.5	304 04.9	S15 02.3	346 25.9	S23 28.6	135 14.7	N19 00.1	184 14.9	N22 12.5
N 7	281 24.9	319 04.4	S15 01.5	1 26.6	S23 28.6	150 17.3	N19 00.2	199 17.2	N22 12.6
E 8	296 27.4	334 03.9	S15 00.7	16 27.4	S23 28.5	165 19.9	N19 00.2	214 19.5	N22 12.6
S 9	311 29.9	349 03.3	S14 59.9	31 28.1	S23 28.5	180 22.5	N19 00.2	229 21.9	N22 12.6
D 10	326 32.3	4 02.8	S14 59.1	46 28.8	S23 28.4	195 25.1	N19 00.3	244 24.2	N22 12.6
A 11	341 34.8	19 02.3	S14 58.3	61 29.6	S23 28.4	210 27.7	N19 00.3	259 26.6	N22 12.6
Y									
12	356 37.3	34 01.8	S14 57.5	76 30.3	S23 28.3	225 30.3	N19 00.3	274 28.9	N22 12.6
13	11 39.7	49 01.3	S14 56.7	91 31.1	S23 28.2	240 32.9	N19 00.4	289 31.2	N22 12.6
14	26 42.2	64 00.8	S14 55.9	106 31.8	S23 28.2	255 35.5	N19 00.4	304 33.6	N22 12.7
15	41 44.7	79 00.3	S14 55.1	121 32.6	S23 28.1	270 38.0	N19 00.4	319 35.9	N22 12.7
16	56 47.1	93 59.8	S14 54.3	136 33.3	S23 28.1	285 40.6	N19 00.5	334 38.3	N22 12.7
17	71 49.6	108 59.3	S14 53.5	151 34.0	S23 28.0	300 43.2	N19 00.5	349 40.6	N22 12.7
18	86 52.1	123 58.7	S14 52.7	166 34.8	S23 27.9	315 45.8	N19 00.5	4 42.9	N22 12.7
19	101 54.5	138 58.2	S14 51.8	181 35.5	S23 27.9	330 48.4	N19 00.5	19 45.3	N22 12.7
20	116 57.0	153 57.7	S14 51.0	196 36.3	S23 27.8	345 51.0	N19 00.6	34 47.6	N22 12.8
21	131 59.4	168 57.2	S14 50.2	211 37.0	S23 27.8	0 53.6	N19 00.6	49 50.0	N22 12.8
22	147 01.9	183 56.7	S14 49.4	226 37.8	S23 27.7	15 56.2	N19 00.6	64 52.3	N22 12.8
23	162 04.4	198 56.2	S14 48.6	241 38.5	S23 27.6	30 58.8	N19 00.7	79 54.6	N22 12.8
20 0	177 06.8	213 55.7	S14 47.8	256 39.3	S23 27.6	46 01.3	N19 00.7	94 57.0	N22 12.8
1	192 09.3	228 55.2	S14 47.0	271 40.0	S23 27.5	61 03.9	N19 00.7	109 59.3	N22 12.8
2	207 11.8	243 54.7	S14 46.2	286 40.7	S23 27.4	76 06.5	N19 00.8	125 01.7	N22 12.8
3	222 14.2	258 54.2	S14 45.3	301 41.5	S23 27.4	91 09.1	N19 00.8	140 04.0	N22 12.9
4	237 16.7	273 53.7	S14 44.5	316 42.2	S23 27.3	106 11.7	N19 00.8	155 06.3	N22 12.9
T 5	252 19.2	288 53.2	S14 43.7	331 43.0	S23 27.3	121 14.3	N19 00.8	170 08.7	N22 12.9
H									
U 6	267 21.6	303 52.7	S14 42.9	346 43.7	S23 27.2	136 16.8	N19 00.9	185 11.0	N22 12.9
R 7	282 24.1	318 52.1	S14 42.1	1 44.5	S23 27.1	151 19.4	N19 00.9	200 13.3	N22 12.9
S 8	297 26.5	333 51.6	S14 41.2	16 45.2	S23 27.1	166 22.0	N19 00.9	215 15.7	N22 12.9
D 9	312 29.0	348 51.1	S14 40.4	31 46.0	S23 27.0	181 24.6	N19 01.0	230 18.0	N22 12.9
A 10	327 31.5	3 50.6	S14 39.6	46 46.7	S23 26.9	196 27.2	N19 01.0	245 20.3	N22 13.0
Y 11	342 33.9	18 50.1	S14 38.8	61 47.5	S23 26.9	211 29.8	N19 01.0	260 22.7	N22 13.0
12	357 36.4	33 49.6	S14 38.0	76 48.2	S23 26.8	226 32.4	N19 01.0	275 25.0	N22 13.0
13	12 38.9	48 49.1	S14 37.1	91 48.9	S23 26.7	241 34.9	N19 01.1	290 27.4	N22 13.0
14	27 41.3	63 48.6	S14 36.3	106 49.7	S23 26.7	256 37.5	N19 01.1	305 29.7	N22 13.0
15	42 43.8	78 48.1	S14 35.5	121 50.4	S23 26.6	271 40.1	N19 01.1	320 32.0	N22 13.0
16	57 46.3	93 47.6	S14 34.7	136 51.2	S23 26.5	286 42.7	N19 01.2	335 34.4	N22 13.0
17	72 48.7	108 47.1	S14 33.8	151 51.9	S23 26.5	301 45.3	N19 01.2	350 36.7	N22 13.1
18	87 51.2	123 46.6	S14 33.0	166 52.7	S23 26.4	316 47.8	N19 01.2	5 39.0	N22 13.1
19	102 53.7	138 46.1	S14 32.2	181 53.4	S23 26.3	331 50.4	N19 01.2	20 41.4	N22 13.1
20	117 56.1	153 45.6	S14 31.3	196 54.2	S23 26.3	346 53.0	N19 01.3	35 43.7	N22 13.1
21	132 58.6	168 45.1	S14 30.5	211 54.9	S23 26.2	1 55.6	N19 01.3	50 46.0	N22 13.1
22	148 01.0	183 44.6	S14 29.7	226 55.7	S23 26.1	16 58.2	N19 01.3	65 48.4	N22 13.1
23	163 03.5	198 44.1	S14 28.8	241 56.4	S23 26.1	32 00.7	N19 01.4	80 50.7	N22 13.1
		v -0.5	d 0.8	v 0.7	d 0.1	v 2.6	d 0.0	v 2.3	d 0.0

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G.M.T d h	SUN GHA ° '	SUN Dec ° '	MOON GHA ° '	MOON v '	MOON Dec ° '	MOON d '	MOON HP '
18 0	177 55.0	S 1 12.1	1 39.8	9.5	N 8 01.0	15.7	60.5
1	192 55.2	S 1 11.1	16 08.3	9.6	N 7 45.3	15.7	60.5
2	207 55.4	S 1 10.1	30 36.9	9.6	N 7 29.6	15.8	60.5
3	222 55.6	S 1 09.2	45 05.5	9.6	N 7 13.7	15.8	60.5
4	237 55.7	S 1 08.2	59 34.1	9.6	N 6 57.9	15.9	60.6
T 5	252 55.9	S 1 07.2	74 02.7	9.6	N 6 41.9	15.9	60.6
U							
E 6	267 56.1	S 1 06.2	88 31.3	9.6	N 6 26.0	16.0	60.6
S 7	282 56.3	S 1 05.2	102 60.0	9.7	N 6 10.0	16.0	60.6
D 8	297 56.5	S 1 04.2	117 28.7	9.7	N 5 53.9	16.1	60.6
A 9	312 56.6	S 1 03.2	131 57.3	9.7	N 5 37.8	16.1	60.6
Y 10	327 56.8	S 1 02.2	146 26.0	9.7	N 5 21.6	16.2	60.7
11	342 57.0	S 1 01.2	160 54.7	9.7	N 5 05.4	16.2	60.7
12	357 57.2	S 1 00.3	175 23.4	9.7	N 4 49.2	16.2	60.7
13	12 57.4	S 0 59.3	189 52.2	9.7	N 4 32.9	16.3	60.7
14	27 57.6	S 0 58.3	204 20.9	9.7	N 4 16.6	16.3	60.7
15	42 57.7	S 0 57.3	218 49.6	9.7	N 4 00.3	16.3	60.7
16	57 57.9	S 0 56.3	233 18.4	9.7	N 3 43.9	16.4	60.8
17	72 58.1	S 0 55.3	247 47.1	9.8	N 3 27.5	16.4	60.8
18	87 58.3	S 0 54.3	262 15.9	9.8	N 3 11.1	16.4	60.8
19	102 58.5	S 0 53.3	276 44.7	9.8	N 2 54.7	16.4	60.8
20	117 58.7	S 0 52.4	291 13.4	9.8	N 2 38.2	16.5	60.8
21	132 58.8	S 0 51.4	305 42.2	9.8	N 2 21.7	16.5	60.8
22	147 59.0	S 0 50.4	320 11.0	9.8	N 2 05.2	16.5	60.8
23	162 59.2	S 0 49.4	334 39.7	9.8	N 1 48.7	16.5	60.8
19 0	177 59.4	S 0 48.4	349 08.5	9.8	N 1 32.1	16.5	60.8
1	192 59.6	S 0 47.4	3 37.3	9.8	N 1 15.6	16.6	60.9
2	207 59.8	S 0 46.4	18 06.0	9.8	N 0 59.0	16.6	60.9
3	222 59.9	S 0 45.4	32 34.8	9.8	N 0 42.4	16.6	60.9
4	238 00.1	S 0 44.4	47 03.6	9.8	N 0 25.8	16.6	60.9
W 5	253 00.3	S 0 43.5	61 32.3	9.8	N 0 09.2	16.6	60.9
E							
D 6	268 00.5	S 0 42.5	76 01.1	9.7	S 0 07.4	16.6	60.9
N 7	283 00.7	S 0 41.5	90 29.8	9.7	S 0 24.0	16.6	60.9
E 8	298 00.9	S 0 40.5	104 58.5	9.7	S 0 40.6	16.6	60.9
S 9	313 01.0	S 0 39.5	119 27.2	9.7	S 0 57.2	16.6	60.9
D 10	328 01.2	S 0 38.5	133 56.0	9.7	S 1 13.8	16.6	60.9
A 11	343 01.4	S 0 37.5	148 24.7	9.7	S 1 30.4	16.6	60.9
Y							
12	358 01.6	S 0 36.5	162 53.3	9.7	S 1 47.0	16.6	60.9
13	13 01.8	S 0 35.6	177 22.0	9.7	S 2 03.6	16.6	60.9
14	28 02.0	S 0 34.6	191 50.7	9.7	S 2 20.1	16.6	60.9
15	43 02.1	S 0 33.6	206 19.3	9.6	S 2 36.7	16.6	60.9
16	58 02.3	S 0 32.6	220 48.0	9.6	S 2 53.2	16.5	60.9
17	73 02.5	S 0 31.6	235 16.6	9.6	S 3 09.8	16.5	60.9
18	88 02.7	S 0 30.6	249 45.2	9.6	S 3 26.3	16.5	60.9
19	103 02.9	S 0 29.6	264 13.8	9.6	S 3 42.8	16.5	60.9
20	118 03.1	S 0 28.6	278 42.3	9.6	S 3 59.2	16.5	60.9
21	133 03.2	S 0 27.7	293 10.9	9.5	S 4 15.7	16.4	60.9
22	148 03.4	S 0 26.7	307 39.4	9.5	S 4 32.1	16.4	60.9
23	163 03.6	S 0 25.7	322 07.9	9.5	S 4 48.5	16.4	60.9
20 0	178 03.8	S 0 24.7	336 36.3	9.5	S 5 04.9	16.4	60.9
1	193 04.0	S 0 23.7	351 04.8	9.4	S 5 21.2	16.3	60.9
2	208 04.2	S 0 22.7	5 33.2	9.4	S 5 37.5	16.3	60.9
3	223 04.4	S 0 21.7	20 01.6	9.4	S 5 53.8	16.3	60.9
4	238 04.5	S 0 20.7	34 30.0	9.4	S 6 10.0	16.2	60.9
T 5	253 04.7	S 0 19.7	48 58.3	9.3	S 6 26.2	16.2	60.9
H							
U 6	268 04.9	S 0 18.8	63 26.6	9.3	S 6 42.3	16.1	60.9
R 7	283 05.1	S 0 17.8	77 54.9	9.3	S 6 58.4	16.1	60.9
S 8	298 05.3	S 0 16.8	92 23.2	9.3	S 7 14.5	16.1	60.9
D 9	313 05.5	S 0 15.8	106 51.4	9.2	S 7 30.5	16.0	60.9
A 10	328 05.7	S 0 14.8	121 19.6	9.2	S 7 46.5	16.0	60.9
Y 11	343 05.8	S 0 13.8	135 47.8	9.2	S 8 02.4	15.9	60.9
12	358 06.0	S 0 12.8	150 15.9	9.1	S 8 18.2	15.9	60.9
13	13 06.2	S 0 11.8	164 44.0	9.1	S 8 34.0	15.8	60.9
14	28 06.4	S 0 10.9	179 12.0	9.1	S 8 49.8	15.8	60.9
15	43 06.6	S 0 09.9	193 40.0	9.0	S 9 05.5	15.7	60.8
16	58 06.8	S 0 08.9	208 08.0	9.0	S 9 21.1	15.6	60.8
17	73 07.0	S 0 07.9	222 36.0	8.9	S 9 36.7	15.6	60.8
18	88 07.1	S 0 06.9	237 03.9	8.9	S 9 52.2	15.5	60.8
19	103 07.3	S 0 05.9	251 31.7	8.9	S10 07.6	15.4	60.8
20	118 07.5	S 0 04.9	265 59.6	8.8	S10 23.0	15.4	60.8
21	133 07.7	S 0 03.9	280 27.3	8.8	S10 38.3	15.3	60.8
22	148 07.9	S 0 03.0	294 55.1	8.7	S10 53.6	15.2	60.8
23	163 08.1	S 0 02.0	309 22.8	8.7	S11 08.7	15.2	60.7
	S.D. 16.1	d 1.0	S.D. 16.5		16.6		16.6

STARS Name	SHA ° '	Dec ° '
Acamar	315 24.6	S40 17.8
Achernar	335 33.1	S57 13.5
Acrux	173 18.0	S63 06.9
Adhara	255 18.8	S28 58.8
Albireo	67 17.6	N27 57.6
Aldebaran	290 58.8	N16 30.9
Alioth	166 27.0	N55 56.5
Alkaid	153 04.7	N49 17.7
Al Na-ir	27 54.1	S46 56.8
Alnilam	275 54.6	S 1 12.1
Alphard	218 03.8	S 8 40.4
Alphecca	126 17.6	N26 42.0
Alpheratz	357 52.3	N29 06.3
Altair	62 16.3	N 8 52.3
Ankaa	353 23.9	S42 17.6
Antares	112 36.1	S26 26.4
Arcturus	146 02.8	N19 09.8
Atria	107 45.2	S69 01.8
Avior	234 21.1	S59 31.4
Bellatrix	278 40.7	N 6 21.1
Betelgeuse	271 10.1	N 7 24.4
Canopus	263 59.7	S52 42.1
Capella	280 46.5	N46 00.3
Castor	246 18.0	N31 53.0
Deneb	49 37.4	N45 17.1
Denebola	182 41.5	N14 33.2
Diphda	349 04.3	S17 58.4
Dubhe	194 00.7	N61 44.1
Elnath	278 22.9	N28 36.7
Eltanin	90 49.9	N51 28.9
Enif	33 55.3	N 9 53.1
Fomalhaut	15 33.1	S29 36.5
Gacrux	172 09.6	S57 07.8
Gienah	176 00.4	S17 33.6
Hadar	148 59.1	S60 23.2
Hamal	328 10.3	N23 28.6
Kaus Austr.	83 54.6	S34 23.0
Kochab	137 18.5	N74 08.3
Markab	13 46.7	N15 13.1
Menkar	314 23.7	N 4 06.0
Menkent	148 16.9	S36 23.1
Miaplacidus	221 41.0	S69 43.9
Mirfak	308 52.4	N49 52.5
Nunki	76 08.4	S26 17.6
Peacock	53 32.1	S56 43.5
Polaris	322 17.1	N89 15.7
Pollux	243 37.4	N28 01.2
Procyon	245 08.0	N 5 13.0
Rasalhague	96 14.0	N12 33.2
Regulus	207 51.8	N11 57.1
Rigel	281 19.9	S 8 12.0
Rigil Kent	140 02.7	S60 50.8
Sabik	102 21.8	S15 43.8
Schedar	349 50.5	N56 33.2
Shaula	96 32.9	S37 06.3
Sirius	258 40.8	S16 43.4
Spica	158 39.5	S11 10.7
Suhail	222 58.2	S43 26.8
Vega	80 44.5	N38 46.8
Zuben-ubi	137 14.5	S16 03.4

	ARIES	VENUS	MARS	JUPITER	SATURN
D 8	114 51.6	293 34.8 N 0 51.8	139 48.0 S16 27.9	318 22.1 N10 43.8	12 04. N22 10.5
A 9	129 54.0	308 34.4 N 0 50.6	154 50.9 S16 27.8	333 24.1 N10 43.6	27 06.6 N22 10.5
Y 10	144 56.5	323 34.1 N 0 49.3	169 53.7 S16 27.8	348 26.0 N10 43.4	42 08.9 N22 10.5
11	159 59.0	338 33.7 N 0 48.0	184 56.6 S16 27.7	3 28.0 N10 43.2	57 11.2 N22 10.5
12	175 01.4	353 33.3 N 0 46.7	199 59.5 S16 27.7	18 30.0 N10 43.0	72 13.5 N22 10.5
13	190 03.9	8 33.0 N 0 45.5	215 02.3 S16 27.7	33 31.9 N10 42.8	87 15.8 N22 10.5
14	205 06.3	23 32.6 N 0 44.2	230 05.2 S16 27.6	48 33.9 N10 42.6	102 18.0 N22 10.5
15	220 08.8	38 32.2 N 0 42.9	245 08.1 S16 27.6	63 35.8 N10 42.4	117 20.3 N22 10.4
16	235 11.3	53 31.8 N 0 41.7	260 10.9 S16 27.5	78 37.8 N10 42.2	132 22.6 N22 10.4
17	250 13.7	68 31.5 N 0 40.4	275 13.8 S16 27.5	93 39.8 N10 42.1	147 24.9 N22 10.4
18	265 16.2	83 31.1 N 0 39.1	290 16.7 S16 27.5	108 41.7 N10 41.9	162 27.2 N22 10.4
19	280 18.7	98 30.7 N 0 37.8	305 19.5 S16 27.4	123 43.7 N10 41.7	177 29.4 N22 10.4
20	295 21.1	113 30.4 N 0 36.6	320 22.4 S16 27.4	138 45.6 N10 41.5	192 31.7 N22 10.4
21	310 23.6	128 30.0 N 0 35.3	335 25.2 S16 27.3	153 47.6 N10 41.3	207 34.0 N22 10.4
22	325 26.1	143 29.6 N 0 34.0	350 28.1 S16 27.3	168 49.6 N10 41.1	222 36.3 N22 10.3
23	340 28.5	158 29.3 N 0 32.8	5 30.9 S16 27.2	183 51.5 N10 40.9	237 38.6 N22 10.3
17 0	355 31.0	173 28.9 N 0 31.5	20 33.8 S16 27.2	198 53.5 N10 40.7	252 40.9 N22 10.3
1	10 33.5	188 28.5 N 0 30.2	35 36.6 S16 27.1	213 55.4 N10 40.5	267 43.1 N22 10.3
2	25 35.9	203 28.1 N 0 28.9	50 39.5 S16 27.1	228 57.4 N10 40.3	282 45.4 N22 10.3
3	40 38.4	218 27.8 N 0 27.7	65 42.3 S16 27.1	243 59.4 N10 40.2	297 47.7 N22 10.3
4	55 40.8	233 27.4 N 0 26.4	80 45.2 S16 27.0	259 01.3 N10 40.0	312 50.0 N22 10.3
W 5	70 43.3	248 27.0 N 0 25.1	95 48.0 S16 27.0	274 03.3 N10 39.8	327 52.3 N22 10.2
E					
D 6	85 45.8	263 26.7 N 0 23.8	110 50.9 S16 26.9	289 05.3 N10 39.6	342 54.6 N22 10.2
N 7	100 48.2	278 26.3 N 0 22.6	125 53.7 S16 26.9	304 07.2 N10 39.4	357 56.8 N22 10.2
E 8	115 50.7	293 25.9 N 0 21.3	140 56.6 S16 26.8	319 09.2 N10 39.2	12 59.1 N22 10.2
S 9	130 53.2	308 25.6 N 0 20.0	155 59.4 S16 26.8	334 11.1 N10 39.0	28 01.4 N22 10.2
D 10	145 55.6	323 25.2 N 0 18.8	171 02.3 S16 26.7	349 13.1 N10 38.8	43 03.7 N22 10.2
A 11	160 58.1	338 24.8 N 0 17.5	186 05.1 S16 26.7	4 15.1 N10 38.6	58 06.0 N22 10.2
Y					
12	176 00.6	353 24.5 N 0 16.2	201 07.9 S16 26.6	19 17.0 N10 38.5	73 08.3 N22 10.1
13	191 03.0	8 24.1 N 0 14.9	216 10.8 S16 26.5	34 19.0 N10 38.3	88 10.5 N22 10.1
14	206 05.5	23 23.7 N 0 13.7	231 13.6 S16 26.5	49 21.0 N10 38.1	103 12.8 N22 10.1
15	221 08.0	38 23.3 N 0 12.4	246 16.4 S16 26.4	64 22.9 N10 37.9	118 15.1 N22 10.1
16	236 10.4	53 23.0 N 0 11.1	261 19.3 S16 26.4	79 24.9 N10 37.7	133 17.4 N22 10.1
17	251 12.9	68 22.6 N 0 09.8	276 22.1 S16 26.3	94 26.8 N10 37.5	148 19.7 N22 10.1
18	266 15.3	83 22.2 N 0 08.6	291 24.9 S16 26.3	109 28.8 N10 37.3	163 22.0 N22 10.1
19	281 17.8	98 21.9 N 0 07.3	306 27.8 S16 26.2	124 30.8 N10 37.1	178 24.3 N22 10.0
20	296 20.3	113 21.5 N 0 06.0	321 30.6 S16 26.2	139 32.7 N10 36.9	193 26.5 N22 10.0
21	311 22.7	128 21.1 N 0 04.8	336 33.4 S16 26.1	154 34.7 N10 36.8	208 28.8 N22 10.0
22	326 25.2	143 20.8 N 0 03.5	351 36.3 S16 26.0	169 36.7 N10 36.6	223 31.1 N22 10.0
23	341 27.7	158 20.4 N 0 02.2	6 39.1 S16 26.0	184 38.6 N10 36.4	238 33.4 N22 10.0
18 0	356 30.1	173 20.0 N 0 00.9	21 41.9 S16 25.9	199 40.6 N10 36.2	253 35.7 N22 10.0
1	11 32.6	188 19.7 S 0 00.3	36 44.7 S16 25.9	214 42.5 N10 36.0	268 38.0 N22 10.0
2	26 35.1	203 19.3 S 0 01.6	51 47.6 S16 25.8	229 44.5 N10 35.8	283 40.3 N22 10.0
3	41 37.5	218 18.9 S 0 02.9	66 50.4 S16 25.7	244 46.5 N10 35.6	298 42.5 N22 09.9
4	56 40.0	233 18.5 S 0 04.2	81 53.2 S16 25.7	259 48.4 N10 35.4	313 44.8 N22 09.9
T 5	71 42.5	248 18.2 S 0 05.4	96 56.0 S16 25.6	274 50.4 N10 35.2	328 47.1 N22 09.9
H					
U 6	86 44.9	263 17.8 S 0 06.7	111 58.8 S16 25.5	289 52.4 N10 35.1	343 49.4 N22 09.9
R 7	101 47.4	278 17.4 S 0 08.0	127 01.7 S16 25.5	304 54.3 N10 34.9	358 51.7 N22 09.9
S 8	116 49.8	293 17.1 S 0 09.3	142 04.5 S16 25.4	319 56.3 N10 34.7	13 54.0 N22 09.9
D 9	131 52.3	308 16.7 S 0 10.5	157 07.3 S16 25.4	334 58.2 N10 34.5	28 56.3 N22 09.9
A 10	146 54.8	323 16.3 S 0 11.8	172 10.1 S16 25.3	350 00.2 N10 34.3	43 58.6 N22 09.8
Y 11	161 57.2	338 16.0 S 0 13.1	187 12.9 S16 25.2	5 02.2 N10 34.1	59 00.8 N22 09.8
12	176 59.7	353 15.6 S 0 14.4	202 15.7 S16 25.2	20 04.1 N10 33.9	74 03.1 N22 09.8
13	192 02.2	8 15.2 S 0 15.6	217 18.5 S16 25.1	35 06.1 N10 33.7	89 05.4 N22 09.8
14	207 04.6	23 14.9 S 0 16.9	232 21.3 S16 25.0	50 08.1 N10 33.5	104 07.7 N22 09.8
15	222 07.1	38 14.5 S 0 18.2	247 24.2 S16 25.0	65 10.0 N10 33.4	119 10.0 N22 09.8
16	237 09.6	53 14.1 S 0 19.5	262 27.0 S16 24.9	80 12.0 N10 33.2	134 12.3 N22 09.8
17	252 12.0	68 13.7 S 0 20.7	277 29.8 S16 24.8	95 14.0 N10 33.0	149 14.6 N22 09.7
18	267 14.5	83 13.4 S 0 22.0	292 32.6 S16 24.7	110 15.9 N10 32.8	164 16.9 N22 09.7
19	282 16.9	98 13.0 S 0 23.3	307 35.4 S16 24.7	125 17.9 N10 32.6	179 19.2 N22 09.7
20	297 19.4	113 12.6 S 0 24.6	322 38.2 S16 24.6	140 19.8 N10 32.4	194 21.4 N22 09.7
21	312 21.9	128 12.3 S 0 25.8	337 41.0 S16 24.5	155 21.8 N10 32.2	209 23.7 N22 09.7
22	327 24.3	143 11.9 S 0 27.1	352 43.8 S16 24.5	170 23.8 N10 32.0	224 26.0 N22 09.7
23	342 26.8	158 11.5 S 0 28.4	7 46.6 S16 24.4	185 25.7 N10 31.8	239 28.3 N22 09.7
		v -0.4 d 1.3	v 2.8 d 0.1	v 2.0 d 0.2	v 2.3 d 0.0

G.M.T d h	GHA	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec
16 0	354 31.9	173 37.8	N 1 02.0	19 25.0	S16 28.1	198 06.4	N10 45.3	251 46.1	N22 10.7
1	9 34.3	188 37.4	N 1 00.7	34 27.9	S16 28.1	213 08.4	N10 45.1	266 48.4	N22 10.7
2	24 36.8	203 37.0	N 0 59.5	49 30.8	S16 28.1	228 10.3	N10 44.9	281 50.7	N22 10.6
3	39 39.2	218 36.7	N 0 58.2	64 33.6	S16 28.0	243 12.3	N10 44.7	296 53.0	N22 10.6
4	54 41.7	233 36.3	N 0 56.9	79 36.5	S16 28.0	258 14.3	N10 44.5	311 55.2	N22 10.6
T 5	69 44.2	248 35.9	N 0 55.6	94 39.4	S16 28.0	273 16.2	N10 44.3	326 57.5	N22 10.6
U									
E 6	84 46.6	263 35.5	N 0 54.4	109 42.3	S16 27.9	288 18.2	N10 44.1	341 59.8	N22 10.6
S 7	99 49.1	278 35.2	N 0 53.1	124 45.1	S16 27.9	303 20.1	N10 43.9	357 02.1	N22 10.6

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G.M.T d h	SUN GHA	SUN Dec	MOON GHA	MOON v	MOON Dec	MOON d	MOON HP
16 0	181 12.7	N 2 53.3	304 34.5	14.2	N18 23.2	10.1	54.2
1	196 12.9	N 2 52.3	319 07.6	14.1	N18 33.3	10.1	54.2
2	211 13.2	N 2 51.3	333 40.7	14.1	N18 43.2	10.0	54.2
3	226 13.4	N 2 50.4	348 13.7	14.0	N18 53.2	9.9	54.2
4	241 13.6	N 2 49.4	2 46.6	13.9	N19 03.0	9.8	54.2
T 5	256 13.8	N 2 48.4	17 19.5	13.9	N19 12.7	9.7	54.2
U							
E 6	271 14.1	N 2 47.5	31 52.3	13.8	N19 22.4	9.7	54.2
S 7	286 14.3	N 2 46.5	46 25.1	13.8	N19 32.0	9.6	54.2
D 8	301 14.5	N 2 45.6	60 57.8	13.7	N19 41.5	9.5	54.2
A 9	316 14.7	N 2 44.6	75 30.5	13.7	N19 50.9	9.4	54.2
Y 10	331 14.9	N 2 43.6	90 03.1	13.6	N20 00.2	9.3	54.2
11	346 15.2	N 2 42.7	104 35.7	13.6	N20 09.5	9.3	54.2
12	1 15.4	N 2 41.7	119 08.2	13.5	N20 18.7	9.2	54.2
13	16 15.6	N 2 40.7	133 40.6	13.4	N20 27.8	9.1	54.2
14	31 15.8	N 2 39.8	148 13.0	13.4	N20 36.8	9.0	54.2
15	46 16.1	N 2 38.8	162 45.3	13.3	N20 45.7	8.9	54.2
16	61 16.3	N 2 37.9	177 17.6	13.3	N20 54.5	8.8	54.2
17	76 16.5	N 2 36.9	191 49.8	13.2	N21 03.2	8.7	54.2
18	91 16.7	N 2 35.9	206 21.9	13.1	N21 11.9	8.6	54.2
19	106 17.0	N 2 35.0	220 54.0	13.1	N21 20.4	8.6	54.2
20	121 17.2	N 2 34.0	235 26.0	13.0	N21 28.9	8.5	54.2
21	136 17.4	N 2 33.0	249 58.0	13.0	N21 37.3	8.4	54.2
22	151 17.6	N 2 32.1	264 29.9	12.9	N21 45.6	8.3	54.2
23	166 17.9	N 2 31.1	279 01.7	12.8	N21 53.8	8.2	54.2
17 0	181 18.1	N 2 30.1	293 33.5	12.8	N22 01.8	8.1	54.2
1	196 18.3	N 2 29.2	308 05.3	12.7	N22 09.9	8.0	54.2
2	211 18.5	N 2 28.2	322 36.9	12.7	N22 17.8	7.9	54.2
3	226 18.7	N 2 27.2	337 08.5	12.6	N22 25.6	7.8	54.2
4	241 19.0	N 2 26.3	351 40.0	12.5	N22 33.3	7.7	54.2
W 5	256 19.2	N 2 25.3	6 11.5	12.5	N22 40.9	7.6	54.2
E							
D 6	271 19.4	N 2 24.3	20 42.9	12.4	N22 48.4	7.5	54.2
N 7	286 19.6	N 2 23.4	35 14.3	12.4	N22 55.8	7.4	54.2
E 8	301 19.9	N 2 22.4	49 45.6	12.3	N23 03.2	7.3	54.3
S 9	316 20.1	N 2 21.5	64 16.8	12.2	N23 10.4	7.2	54.3
D 10	331 20.3	N 2 20.5	78 48.0	12.2	N23 17.5	7.1	54.3
A 11	346 20.5	N 2 19.5	93 19.1	12.1	N23 24.5	7.0	54.3
Y							
12	1 20.8	N 2 18.6	107 50.1	12.0	N23 31.4	6.9	54.3
18 0	181 23.4	N 2 07.0	281 57.8	11.3	N24 46.1	5.6	54.4
1	196 23.7	N 2 06.0	296 28.0	11.2	N24 51.6	5.5	54.4
2	211 23.9	N 2 05.0	310 58.2	11.2	N24 57.0	5.4	54.4
3	226 24.1	N 2 04.1	325 28.3	11.1	N25 02.3	5.3	54.4
4	241 24.3	N 2 03.1	339 58.4	11.1	N25 07.4	5.2	54.4
T 5	256 24.5	N 2 02.1	354 28.4	11.0	N25 12.5	5.1	54.5
H							
U 6	271 24.8	N 2 01.2	8 58.4	10.9	N25 17.4	4.9	54.5
R 7	286 25.0	N 2 00.2	23 28.2	10.9	N25 22.2	4.8	54.5
S 8	301 25.2	N 1 59.2	37 58.1	10.8	N25 26.9	4.7	54.5
D 9	316 25.4	N 1 58.3	52 27.8	10.8	N25 31.5	4.6	54.5
A 10	331 25.7	N 1 57.3	66 57.5	10.7	N25 36.0	4.5	54.5
Y 11	346 25.9	N 1 56.3	81 27.2	10.7	N25 40.3	4.3	54.5
12	1 26.1	N 1 55.4	95 56.8	10.6	N25 44.5	4.2	54.5
13	16 26.3	N 1 54.4	110 26.4	10.5	N25 48.6	4.1	54.6
14	31 26.6	N 1 53.4	124 55.8	10.5	N25 52.6	4.0	54.6
15	46 26.8	N 1 52.4	139 25.3	10.4	N25 56.5	3.9	54.6
16	61 27.0	N 1 51.5	153 54.7	10.4	N26 00.2	3.7	54.6
17	76 27.2	N 1 50.5	168 24.0	10.3	N26 03.8	3.6	54.6
18	91 27.4	N 1 49.5	182 53.3	10.3	N26 07.3	3.5	54.6
19	106 27.7	N 1 48.6	197 22.5	10.2	N26 10.7	3.4	54.7
20	121 27.9	N 1 47.6	211 51.6	10.2	N26 13.9	3.2	54.7
21	136 28.1	N 1 46.6	226 20.8	10.1	N26 17.0	3.1	54.7
22	151 28.3	N 1 45.7	240 49.8	10.1	N26 20.0	3.0	54.7
23	166 28.6	N 1 44.7	255 18.8	10.0	N26 22.9	2.9	54.7
	S.D. 15.9	d 1.0	S.D. 14.8		14.8		14.9

STARS Name	SHA	Dec
Acamar	315 23.8	S40 17.1
Achernar	335 31.7	S57 12.9
Acrux	173 19.0	S63 07.1
Adhara	255 18.7	S28 58.3
Albireo	67 16.9	N27 58.2
Aldebaran	290 58.1	N16 31.1
Alioth	166 27.7	N55 56.6
Alkaid	153 05.2	N49 17.9
Al Na-ir	27 52.7	S46 56.7
Alnilam	275 54.1	S 1 11.7
Alphard	218 03.9	S 8 40.2
Alphecca	126 17.6	N26 42.4
Alpheratz	357 51.2	N29 06.7
Altair	62 15.6	N 8 52.7
Ankaa	353 22.7	S42 17.1
Antares	112 35.8	S26 26.5
Arcturus	146 03.0	N19 10.0
Atria	107 44.8	S69 02.4
Avior	234 21.7	S59 30.9
Bellatrix	278 40.2	N 6 21.4
Betelgeuse	271 09.7	N 7 24.6
Canopus	263 59.7	S52 41.4
Capella	280 45.8	N46 00.0
Castor	246 17.9	N31 52.9
Deneb	49 36.5	N45 17.7
Denebola	182 41.8	N14 33.3
Diphda	349 03.3	S17 57.9
Dubhe	194 01.5	N61 44.0
Elnath	278 22.4	N28 36.6
Eltanin	90 49.7	N51 29.5
Enif	33 54.4	N 9 53.6
Fomalhaut	15 32.0	S29 36.2
Gacrux	172 10.3	S57 08.0
Gienah	176 00.6	S17 33.5
Hadar	148 59.6	S60 23.5
Procyon	245 07.9	N 5 13.2
Rasalhague	96 13.6	N12 33.6
Regulus	207 52.0	N11 57.2
Rigel	281 19.4	S 8 11.6
Rigil Kent	140 03.1	S60 51.2
Sabik	102 21.4	S15 43.8
Schedar	349 49.0	N56 33.4
Shaula	96 32.4	S37 06.5
Sirius	258 40.6	S16 43.0
Spica	158 39.7	S11 10.7
Suhail	222 58.6	S43 26.5
Vega	80 44.1	N38 47.4
Zuben-ubi	137 14.5	S16 03.4