

2013 SEP. 29, 30, OCT. 1 (SUN, MON, TUE)

		ARIES			VENUS			MARS			JUPITER			SATURN		
G.M.T	d h	GHA			GHA	Dec		GHA	Dec		GHA	Dec		GHA	Dec	
29	0	7 55.2			140 40.4	S19 42.5		225 04.5	N15 59.6		258 18.9	N22 08.1		149 49.7	S12 41.3	
	1	22 57.7			155 40.0	S19 43.4		240 05.5	N15 59.2		273 21.1	N22 08.0		164 52.0	S12 41.4	
	2	38 00.1			170 39.6	S19 44.3		255 06.4	N15 58.7		288 23.2	N22 08.0		179 54.2	S12 41.5	
	3	53 02.6			185 39.3	S19 45.2		270 07.3	N15 58.2		303 25.4	N22 08.0		194 56.4	S12 41.6	
	4	68 05.1			200 38.9	S19 46.1		285 08.3	N15 57.8		318 27.5	N22 07.9		209 58.6	S12 41.7	
	5	83 07.5			215 38.5	S19 47.1		300 09.2	N15 57.3		333 29.7	N22 07.9		225 00.8	S12 41.8	
	6	98 10.0			230 38.2	S19 48.0		315 10.2	N15 56.8		348 31.8	N22 07.9		240 03.0	S12 41.9	
	7	113 12.5			245 37.8	S19 48.9		330 11.1	N15 56.4		3 34.0	N22 07.8		255 05.2	S12 42.0	
	8	128 14.9			260 37.4	S19 49.8		345 12.1	N15 55.9		18 36.1	N22 07.8		270 07.4	S12 42.1	
	9	143 17.4			275 37.1	S19 50.7		0 13.0	N15 55.4		33 38.3	N22 07.8		285 09.6	S12 42.1	
	10	158 19.9			290 36.7	S19 51.6		15 14.0	N15 55.0		48 40.4	N22 07.7		300 11.8	S12 42.2	
11	173 22.3			305 36.3	S19 52.5		30 14.9	N15 54.5		63 42.6	N22 07.7		315 14.0	S12 42.3		
30	12	188 24.8			320 36.0	S19 53.4		45 15.8	N15 54.0		78 44.7	N22 07.7		330 16.2	S12 42.4	
	13	203 27.3			335 35.6	S19 54.3		60 16.8	N15 53.6		93 46.9	N22 07.6		345 18.4	S12 42.5	
	14	218 29.7			350 35.2	S19 55.3		75 17.7	N15 53.1		108 49.1	N22 07.6		0 20.6	S12 42.6	
	15	233 32.2			5 34.9	S19 56.2		90 18.7	N15 52.6		123 51.2	N22 07.6		15 22.8	S12 42.7	
	16	248 34.6			20 34.5	S19 57.1		105 19.6	N15 52.2		138 53.4	N22 07.5		30 25.1	S12 42.8	
	17	263 37.1			35 34.1	S19 58.0		120 20.6	N15 51.7		153 55.5	N22 07.5		45 27.3	S12 42.9	
	18	278 39.6			50 33.8	S19 58.9		135 21.5	N15 51.2		168 57.7	N22 07.5		60 29.5	S12 42.9	
	19	293 42.0			65 33.4	S19 59.8		150 22.5	N15 50.8		183 59.8	N22 07.4		75 31.7	S12 43.0	
	20	308 44.5			80 33.0	S20 00.7		165 23.4	N15 50.3		199 02.0	N22 07.4		90 33.9	S12 43.1	
	21	323 47.0			95 32.7	S20 01.6		180 24.4	N15 49.8		214 04.1	N22 07.4		105 36.1	S12 43.2	
	22	338 49.4			110 32.3	S20 02.5		195 25.3	N15 49.4		229 06.3	N22 07.3		120 38.3	S12 43.3	
23	353 51.9			125 31.9	S20 03.4		210 26.3	N15 48.9		244 08.5	N22 07.3		135 40.5	S12 43.4		
M O N D A Y	0	8 54.4			140 31.6	S20 04.3		225 27.2	N15 48.4		259 10.6	N22 07.3		150 42.7	S12 43.5	
	1	23 56.8			155 31.2	S20 05.2		240 28.2	N15 48.0		274 12.8	N22 07.2		165 44.9	S12 43.6	
	2	38 59.3			170 30.8	S20 06.1		255 29.1	N15 47.5		289 14.9	N22 07.2		180 47.1	S12 43.7	
	3	54 01.8			185 30.5	S20 07.0		270 30.1	N15 47.0		304 17.1	N22 07.2		195 49.3	S12 43.7	
	4	69 04.2			200 30.1	S20 07.9		285 31.0	N15 46.5		319 19.3	N22 07.1		210 51.5	S12 43.8	
	5	84 06.7			215 29.7	S20 08.8		300 31.9	N15 46.1		334 21.4	N22 07.1		225 53.7	S12 43.9	
	6	99 09.1			230 29.3	S20 09.7		315 32.9	N15 45.6		349 23.6	N22 07.0		240 55.9	S12 44.0	
	7	114 11.6			245 29.0	S20 10.6		330 33.8	N15 45.1		4 25.7	N22 07.0		255 58.1	S12 44.1	
	8	129 14.1			260 28.6	S20 11.5		345 34.8	N15 44.7		19 27.9	N22 07.0		271 00.3	S12 44.2	
	9	144 16.5			275 28.2	S20 12.4		0 35.7	N15 44.2		34 30.1	N22 06.9		286 02.5	S12 44.3	
	10	159 19.0			290 27.9	S20 13.3		15 36.7	N15 43.7		49 32.2	N22 06.9		301 04.7	S12 44.4	
11	174 21.5			305 27.5	S20 14.2		30 37.6	N15 43.3		64 34.4	N22 06.9		316 07.0	S12 44.5		
T U E S D A Y	12	189 23.9			320 27.1	S20 15.0		45 38.6	N15 42.8		79 36.5	N22 06.8		331 09.2	S12 44.5	
	13	204 26.4			335 26.7	S20 15.9		60 39.5	N15 42.3		94 38.7	N22 06.8		346 11.4	S12 44.6	
	14	219 28.9			350 26.4	S20 16.8		75 40.5	N15 41.9		109 40.9	N22 06.8		1 13.6	S12 44.7	
	15	234 31.3			5 26.0	S20 17.7		90 41.4	N15 41.4		124 43.0	N22 06.7		16 15.8	S12 44.8	
	16	249 33.8			20 25.6	S20 18.6		105 42.4	N15 40.9		139 45.2	N22 06.7		31 18.0	S12 44.9	
	17	264 36.3			35 25.2	S20 19.5		120 43.3	N15 40.4		154 47.4	N22 06.7		46 20.2	S12 45.0	
	18	279 38.7			50 24.9	S20 20.4		135 44.3	N15 40.0		169 49.5	N22 06.6		61 22.4	S12 45.1	
	19	294 41.2			65 24.5	S20 21.3		150 45.3	N15 39.5		184 51.7	N22 06.6		76 24.6	S12 45.2	
	20	309 43.6			80 24.1	S20 22.1		165 46.2	N15 39.0		199 53.8	N22 06.6		91 26.8	S12 45.3	
	21	324 46.1			95 23.7	S20 23.0		180 47.2	N15 38.6		214 56.0	N22 06.5		106 29.0	S12 45.3	
	22	339 48.6			110 23.4	S20 23.9		195 48.1	N15 38.1		229 58.2	N22 06.5		121 31.2	S12 45.4	
23	354 51.0			125 23.0	S20 24.8		210 49.1	N15 37.6		245 00.3	N22 06.5		136 33.4	S12 45.5		
S A T U R D A Y	0	9 53.5			140 22.6	S20 25.7		225 50.0	N15 37.2		260 02.5	N22 06.4		151 35.6	S12 45.6	
	1	24 56.0			155 22.2	S20 26.6		240 51.0	N15 36.7		275 04.7	N22 06.4		166 37.8	S12 45.7	
	2	39 58.4			170 21.8	S20 27.4		255 51.9	N15 36.2		290 06.8	N22 06.4		181 40.0	S12 45.8	
	3	55 00.9			185 21.5	S20 28.3		270 52.9	N15 35.7		305 09.0	N22 06.3		196 42.2	S12 45.9	
	4	70 03.4			200 21.1	S20 29.2		285 53.8	N15 35.3		320 11.2	N22 06.3		211 44.4	S12 46.0	
	5	85 05.8			215 20.7	S20 30.1		300 54.8	N15 34.8		335 13.3	N22 06.3		226 46.6	S12 46.1	
	6	100 08.3			230 20.3	S20 31.0		315 55.7	N15 34.3		350 15.5	N22 06.2		241 48.8	S12 46.1	
	7	115 10.7			245 20.0	S20 31.8		330 56.7	N15 33.8		5 17.7	N22 06.2		256 51.0	S12 46.2	
	8	130 13.2			260 19.6	S20 32.7		345 57.6	N15 33.4		20 19.8	N22 06.2		271 53.2	S12 46.3	
	9	145 15.7			275 19.2	S20 33.6		0 58.6	N15 32.9		35 22.0	N22 06.1		286 55.4	S12 46.4	
	10	160 18.1			290 18.8	S20 34.5		15 59.5	N15 32.4		50 24.2	N22 06.1		301 57.6	S12 46.5	
11	175 20.6			305 18.4	S20 35.3		31 00.5	N15 32.0		65 26.3	N22 06.1		316 59.8	S12 46.6		
S U N D A Y	12	190 23.1			320 18.1	S20 36.2		46 01.5	N15 31.5		80 28.5	N22 06.0		332 02.0	S12 46.7	
	13	205 25.5			335 17.7	S20 37.1		61 02.4	N15 31.0		95 30.7	N22 06.0		347 04.2	S12 46.8	
	14	220 28.0			350 17.3	S20 37.9		76 03.4	N15 30.5		110 32.8	N22 06.0		2 06.4	S12 46.9	
	15	235 30.5			5 16.9	S20 38.8		91 04.3	N15 30.1		125 35.0	N22 05.9		17 08.7	S12 46.9	
	16	250 32.9			20 16.5	S20 39.7		106 05.3	N15 29.6		140 37.2	N22 05.9		32 10.9	S12 47.0	
	17	265 35.4			35 16.2	S20 40.5		121 06.2	N15 29.1		155 39.4	N22 05.9		47 13.1	S12 47.1	
	18	280 37.9			50 15.8	S20 41.4		136 07.2	N15 28.6		170 41.5	N22 05.8		62 15.3	S12 47.2	
	19	295 40.3			65 15.4	S20 42.3		151 08.2	N15 28.2		185 43.7	N22 05.8		77 17.5	S12 47.3	
	20	310 42.8			80 15.0	S20 43.1		166 09.1	N15 27.7		200 45.9	N22 05.8		92 19.7	S12 47.4	
	21	325 45.2			95 14.6	S20 44.0		181 10.1	N15 27.2		215 48.0	N22 05.7		107 21.9	S12 47.5	
	22	340 47.7			110 14.2	S20 44.9		196 11.0	N15 26.8		230 50.2	N22 05.7		122 24.1	S12 47.6	
23	355 50.2			125 13.9	S20 45.7		211 12.0	N15 26.3		245 52.4	N22 05.7		137 26.3	S12 47.7		
		v -0.4			d 0.9			v 1.0			d 0.5			v 2.2		

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		SUN				MOON				STARS			
G.M.T	d h	GHA	Dec			GHA	v	Dec	d	HP	Name	SHA	Dec
29	0	182 23.9 S 2	23.3			250 52.6 13.1 N15	56.1	5.9 54.4			Acamar	315 17.8 S40	14.8
	1	197 24.1 S 2	24.3			265 24.8 13.2 N15	50.1	6.0 54.4			Achernar	335 26.1 S57	09.9
	2	212 24.3 S 2	25.3			279 56.9 13.2 N15	44.0	6.1 54.4			Acrux	173 09.7 S63	10.5
	3	227 24.6 S 2	26.2			294 29.1 13.2 N15	37.9	6.1 54.4			Adhara	255 12.4 S28	59.3
	4	242 24.8 S 2	27.2			309 01.3 13.2 N15	31.7	6.2 54.4			Albireo	67 10.6 N27	59.7
S	5	257 25.0 S 2	28.2			323 33.6 13.2 N15	25.4	6.3 54.4					
U											Aldebaran	290 49.0 N16	32.1
N	6	272 25.2 S 2	29.2			338 05.8 13.2 N15	19.0	6.4 54.4			Alioth	166 21.1 N55	53.2
D	7	287 25.4 S 2	30.1			352 38.1 13.3 N15	12.6	6.4 54.4			Alkaid	152 59.2 N49	14.8
A	8	302 25.6 S 2	31.1			7 10.4 13.3 N15	06.1	6.5 54.4			Al Na-ir	27 43.1 S46	53.6
Y	9	317 25.8 S 2	32.1			21 42.7 13.3 N14	59.5	6.6 54.5			Alnilam	275 46.0 S 1	11.6
	10	332 26.0 S 2	33.0			36 15.0 13.3 N14	52.9	6.6 54.5					
	11	347 26.2 S 2	34.0			50 47.3 13.3 N14	46.2	6.7 54.5			Alphard	217 56.1 S 8	43.1
											Alphecca	126 11.1 N26	40.4
	12	2 26.4 S 2	35.0			65 19.6 13.3 N14	39.4	6.8 54.5			Alpheratz	357 42.9 N29	10.2
	13	17 26.6 S 2	36.0			79 52.0 13.4 N14	32.6	6.8 54.5			Altair	62 07.9 N 8	54.6
	14	32 26.8 S 2	36.9			94 24.4 13.4 N14	25.7	6.9 54.5			Ankaa	353 15.1 S42	13.8
	15	47 27.0 S 2	37.9			108 56.8 13.4 N14	18.7	7.0 54.5					
	16	62 27.2 S 2	38.9			123 29.2 13.4 N14	11.7	7.0 54.5			Antares	112 26.2 S26	27.6
	17	77 27.4 S 2	39.8			138 01.6 13.4 N14	04.6	7.1 54.6			Arcturus	145 55.8 N19	06.8
											Atria	107 28.0 S69	03.2
	18	92 27.6 S 2	40.8			152 34.0 13.4 N13	57.4	7.2 54.6			Avior	234 18.2 S59	33.1
	19	107 27.9 S 2	41.8			167 06.5 13.5 N13	50.1	7.2 54.6			Bellatrix	278 31.7 N 6	21.7
	20	122 28.1 S 2	42.8			181 39.0 13.5 N13	42.8	7.3 54.6					
	21	137 28.3 S 2	43.7			196 11.4 13.5 N13	35.5	7.4 54.6			Betelgeuse	271 01.0 N 7	24.5
	22	152 28.5 S 2	44.7			210 43.9 13.5 N13	28.0	7.4 54.6			Canopus	263 56.0 S52	42.0
	23	167 28.7 S 2	45.7			225 16.4 13.5 N13	20.5	7.5 54.6			Capella	280 34.0 N46	00.4
											Castor	246 07.8 N31	51.3
30	0	182 28.9 S 2	46.6			239 48.9 13.5 N13	13.0	7.6 54.7			Deneb	49 31.1 N45	20.2
	1	197 29.1 S 2	47.6			254 21.5 13.5 N13	05.3	7.6 54.7					
	2	212 29.3 S 2	48.6			268 54.0 13.5 N12	57.7	7.7 54.7			Denebola	182 33.8 N14	29.7
	3	227 29.5 S 2	49.5			283 26.6 13.6 N12	49.9	7.7 54.7			Diphda	348 55.4 S17	54.5
	4	242 29.7 S 2	50.5			297 59.1 13.6 N12	42.1	7.8 54.7			Dubhe	193 52.1 N61	40.4
M	5	257 29.9 S 2	51.5			312 31.7 13.6 N12	34.2	7.9 54.7			Elnath	278 12.3 N28	36.9
O											Eltanin	90 46.2 N51	29.7
N	6	272 30.1 S 2	52.5			327 04.3 13.6 N12	26.3	7.9 54.7					
D	7	287 30.3 S 2	53.4			341 36.9 13.6 N12	18.3	8.0 54.8			Enif	33 46.6 N 9	56.6
A	8	302 30.5 S 2	54.4			356 09.5 13.6 N12	10.3	8.0 54.8			Fomalhaut	15 23.4 S29	32.8
Y	9	317 30.7 S 2	55.4			10 42.1 13.6 N12	02.2	8.1 54.8			Gacrux	172 01.2 S57	11.4
	10	332 30.9 S 2	56.3			25 14.7 13.6 N11	54.0	8.2 54.8			Gienah	175 52.4 S17	37.0
	11	347 31.1 S 2	57.3			39 47.4 13.6 N11	45.8	8.2 54.8			Hadar	148 48.2 S60	26.4
	12	2 31.3 S 2	58.3			54 20.0 13.6 N11	37.5	8.3 54.9			Hamal	328 00.2 N23	31.7
	13	17 31.5 S 2	59.3			68 52.6 13.6 N11	29.1	8.3 54.9			Kaus Austr.	83 43.6 S34	22.6
	14	32 31.7 S 3	00.2			83 25.3 13.7 N11	20.8	8.4 54.9			Kochab	137 21.1 N74	06.2
	15	47 31.9 S 3	01.2			97 58.0 13.7 N11	12.3	8.5 54.9			Markab	13 37.8 N15	17.0
	16	62 32.1 S 3	02.2			112 30.6 13.7 N11	03.8	8.5 54.9			Menkar	314 14.6 N 4	08.7
	17	77 32.3 S 3	03.1			127 03.3 13.7 N10	55.2	8.6 54.9					
											Menkent	148 07.7 S36	26.2
	18	92 32.5 S 3	04.1			141 36.0 13.7 N10	46.6	8.6 55.0			Miaplacidus	221 40.1 S69	46.3
	19	107 32.7 S 3	05.1			156 08.7 13.7 N10	37.9	8.7 55.0			Mirfak	308 39.7 N49	54.4
	20	122 32.9 S 3	06.0			170 41.3 13.7 N10	29.2	8.7 55.0			Nunki	75 58.0 S26	16.6
	21	137 33.1 S 3	07.0			185 14.0 13.7 N10	20.4	8.8 55.0			Peacock	53 18.6 S56	41.4
	22	152 33.4 S 3	08.0			199 46.7 13.7 N10	11.6	8.8 55.0					
	23	167 33.6 S 3	09.0			214 19.4 13.7 N10	02.7	8.9 55.1			Polaris	318 39.2 N89	18.2
											Pollux	243 27.6 N27	59.4
1	0	182 33.8 S 3	09.9			228 52.1 13.7 N 9	53.8	8.9 55.1			Procyon	244 59.6 N 5	11.3
	1	197 34.0 S 3	10.9			243 24.8 13.7 N 9	44.8	9.0 55.1			Rasalhague	96 06.4 N12	33.4
	2	212 34.2 S 3	11.9			257 57.6 13.7 N 9	35.8	9.0 55.1			Regulus	207 43.6 N11	54.0
	3	227 34.4 S 3	12.8			272 30.3 13.7 N 9	26.7	9.1 55.1					
	4	242 34.6 S 3	13.8			287 03.0 13.7 N 9	17.6	9.1 55.2			Rigel	281 11.7 S 8	11.1
T	5	257 34.8 S 3	14.8			301 35.7 13.7 N 9	08.4	9.2 55.2			Rigil Kent	139 52.0 S60	53.6
U											Sabik	102 12.4 S15	44.3
E	6	272 35.0 S 3	15.7			316 08.4 13.7 N 8	59.2	9.2 55.2			Schedar	349 39.6 N56	36.9
S	7	287 35.2 S 3	16.7			330 41.1 13.7 N 8	49.9	9.3 55.2			Shaula	96 21.7 S37	06.7
D	8	302 35.4 S 3	17.7			345 13.8 13.7 N 8	40.6	9.3 55.2					
A	9	317 35.6 S 3	18.6			359 46.5 13.7 N 8	31.2	9.4 55.3			Sirius	258 33.6 S16	44.0
Y	10	332 35.8 S 3	19.6			14 19.2 13.7 N 8	21.8	9.4 55.3			Spica	158 31.3 S11	13.9
	11	347 36.0 S 3	20.6			28 51.9 13.7 N 8	12.3	9.5 55.3			Suhail	222 52.5 S43	29.2
											Vega	80 38.8 N38	48.2
	12	2 36.2 S 3	21.6			43 24.6 13.7 N 8	02.8	9.5 55.3			Zuben-ubi	137 06.0 S16	05.8
	13	17 36.4 S 3	22.5			57 57.3 13.7 N 7	53.3	9.6 55.4					
	14	32 36.6 S 3	23.5			72 30.0 13.7 N 7	43.7	9.6 55.4					
	15	47 36.8 S 3	24.5			87 02.7 13.7 N 7	34.0	9.6 55.4					
	16	62 37.0 S 3	25.4			101 35.4 13.7 N 7	24.3	9.7 55.4					
	17	77 37.2 S 3	26.4			116 08.1 13.7 N 7	14.6	9.7 55.5					
	18	92 37.4 S 3	27.4			130 40.8 13.7 N 7	04.9	9.8 55.5					
	19	107 37.6 S 3	28.3			145 13.4 13.7 N 6	55.1	9.8 55.5					
	20	122 37.8 S 3	29.3			159 46.1 13.7 N 6	45.2	9.8 55.5					
	21	137 38.0 S 3	30.3			174 18.7 13.7 N 6	35.3	9.9 55.5					
	22	152 38.2 S 3	31.2			188 51.4 13.6 N 6	25.4	9.9 55.6					
	23	167 38.4 S 3	32.2			203 24.0 13.6 N 6	15.5	10.0 55.6					
		S.D.	16.0	d	1.0	S.D.	14.8	14.9	15.1				

2013 OCT. 2, 3, 4 (WED, THU, FRI)

		ARIES			VENUS			MARS			JUPITER			SATURN					
G.M.T		GHA			Dec			GHA			Dec			GHA			Dec		
d	h	°	'		°	'		°	'		°	'		°	'		°	'	
2	0	10	52.6		140	13.5	S20 46.6	226	12.9	N15 25.8	260	54.6	N22 05.6	152	28.5	S12 47.8			
	1	25	55.1		155	13.1	S20 47.5	241	13.9	N15 25.3	275	56.7	N22 05.6	167	30.7	S12 47.8			
	2	40	57.6		170	12.7	S20 48.3	256	14.9	N15 24.9	290	58.9	N22 05.6	182	32.9	S12 47.9			
	3	56	00.0		185	12.3	S20 49.2	271	15.8	N15 24.4	306	01.1	N22 05.5	197	35.1	S12 48.0			
	4	71	02.5		200	11.9	S20 50.0	286	16.8	N15 23.9	321	03.2	N22 05.5	212	37.3	S12 48.1			
WED	5	86	05.0		215	11.6	S20 50.9	301	17.7	N15 23.4	336	05.4	N22 05.5	227	39.5	S12 48.2			
	6	101	07.4		230	11.2	S20 51.8	316	18.7	N15 23.0	351	07.6	N22 05.4	242	41.7	S12 48.3			
	7	116	09.9		245	10.8	S20 52.6	331	19.6	N15 22.5	6	09.8	N22 05.4	257	43.9	S12 48.4			
	8	131	12.3		260	10.4	S20 53.5	346	20.6	N15 22.0	21	11.9	N22 05.4	272	46.1	S12 48.5			
	9	146	14.8		275	10.0	S20 54.3	1	21.6	N15 21.5	36	14.1	N22 05.3	287	48.3	S12 48.6			
DAY	10	161	17.3		290	09.6	S20 55.2	16	22.5	N15 21.1	51	16.3	N22 05.3	302	50.5	S12 48.6			
	11	176	19.7		305	09.2	S20 56.0	31	23.5	N15 20.6	66	18.5	N22 05.3	317	52.7	S12 48.7			
	12	191	22.2		320	08.9	S20 56.9	46	24.4	N15 20.1	81	20.6	N22 05.3	332	54.9	S12 48.8			
	13	206	24.7		335	08.5	S20 57.7	61	25.4	N15 19.6	96	22.8	N22 05.2	347	57.1	S12 48.9			
	14	221	27.1		350	08.1	S20 58.6	76	26.4	N15 19.2	111	25.0	N22 05.2	2	59.3	S12 49.0			
	15	236	29.6		5	07.7	S20 59.4	91	27.3	N15 18.7	126	27.2	N22 05.2	18	01.5	S12 49.1			
	16	251	32.1		20	07.3	S21 00.3	106	28.3	N15 18.2	141	29.3	N22 05.1	33	03.7	S12 49.2			
	17	266	34.5		35	06.9	S21 01.1	121	29.2	N15 17.7	156	31.5	N22 05.1	48	05.9	S12 49.3			
	18	281	37.0		50	06.5	S21 02.0	136	30.2	N15 17.3	171	33.7	N22 05.1	63	08.1	S12 49.4			
	19	296	39.5		65	06.1	S21 02.8	151	31.2	N15 16.8	186	35.9	N22 05.0	78	10.3	S12 49.5			
	20	311	41.9		80	05.8	S21 03.7	166	32.1	N15 16.3	201	38.0	N22 05.0	93	12.5	S12 49.5			
	21	326	44.4		95	05.4	S21 04.5	181	33.1	N15 15.8	216	40.2	N22 05.0	108	14.7	S12 49.6			
	22	341	46.8		110	05.0	S21 05.4	196	34.1	N15 15.3	231	42.4	N22 04.9	123	16.9	S12 49.7			
	23	356	49.3		125	04.6	S21 06.2	211	35.0	N15 14.9	246	44.6	N22 04.9	138	19.1	S12 49.8			
	3	0	11	51.8		140	04.2	S21 07.0	226	36.0	N15 14.4	261	46.8	N22 04.9	153	21.3	S12 49.9		
1		26	54.2		155	03.8	S21 07.9	241	36.9	N15 13.9	276	48.9	N22 04.8	168	23.5	S12 50.0			
2		41	56.7		170	03.4	S21 08.7	256	37.9	N15 13.4	291	51.1	N22 04.8	183	25.7	S12 50.1			
3		56	59.2		185	03.0	S21 09.6	271	38.9	N15 13.0	306	53.3	N22 04.8	198	27.9	S12 50.2			
4		72	01.6		200	02.6	S21 10.4	286	39.8	N15 12.5	321	55.5	N22 04.7	213	30.1	S12 50.3			
THU	5	87	04.1		215	02.2	S21 11.2	301	40.8	N15 12.0	336	57.7	N22 04.7	228	32.3	S12 50.4			
	6	102	06.6		230	01.8	S21 12.1	316	41.8	N15 11.5	351	59.8	N22 04.7	243	34.5	S12 50.4			
	7	117	09.0		245	01.5	S21 12.9	331	42.7	N15 11.0	7	02.0	N22 04.6	258	36.7	S12 50.5			
	8	132	11.5		260	01.1	S21 13.8	346	43.7	N15 10.6	22	04.2	N22 04.6	273	38.9	S12 50.6			
	9	147	13.9		275	00.7	S21 14.6	1	44.7	N15 10.1	37	06.4	N22 04.6	288	41.1	S12 50.7			
DAY	10	162	16.4		290	00.3	S21 15.4	16	45.6	N15 09.6	52	08.6	N22 04.5	303	43.3	S12 50.8			
	11	177	18.9		304	59.9	S21 16.3	31	46.6	N15 09.1	67	10.7	N22 04.5	318	45.5	S12 50.9			
	12	192	21.3		319	59.5	S21 17.1	46	47.5	N15 08.7	82	12.9	N22 04.5	333	47.7	S12 51.0			
	13	207	23.8		334	59.1	S21 17.9	61	48.5	N15 08.2	97	15.1	N22 04.4	348	49.9	S12 51.1			
	14	222	26.3		349	58.7	S21 18.7	76	49.5	N15 07.7	112	17.3	N22 04.4	3	52.1	S12 51.2			
	15	237	28.7		4	58.3	S21 19.6	91	50.4	N15 07.2	127	19.5	N22 04.4	18	54.3	S12 51.3			
	16	252	31.2		19	57.9	S21 20.4	106	51.4	N15 06.7	142	21.7	N22 04.4	33	56.5	S12 51.3			
	17	267	33.7		34	57.5	S21 21.2	121	52.4	N15 06.3	157	23.8	N22 04.3	48	58.7	S12 51.4			
	18	282	36.1		49	57.1	S21 22.1	136	53.3	N15 05.8	172	26.0	N22 04.3	64	00.9	S12 51.5			
	19	297	38.6		64	56.7	S21 22.9	151	54.3	N15 05.3	187	28.2	N22 04.3	79	03.1	S12 51.6			
	20	312	41.1		79	56.3	S21 23.7	166	55.3	N15 04.8	202	30.4	N22 04.2	94	05.3	S12 51.7			
	21	327	43.5		94	55.9	S21 24.5	181	56.2	N15 04.3	217	32.6	N22 04.2	109	07.5	S12 51.8			
	22	342	46.0		109	55.5	S21 25.4	196	57.2	N15 03.9	232	34.8	N22 04.2	124	09.7	S12 51.9			
	23	357	48.4		124	55.1	S21 26.2	211	58.2	N15 03.4	247	37.0	N22 04.1	139	11.9	S12 52.0			
	4	0	12	50.9		139	54.7	S21 27.0	226	59.1	N15 02.9	262	39.1	N22 04.1	154	14.1	S12 52.1		
1		27	53.4		154	54.4	S21 27.8	242	00.1	N15 02.4	277	41.3	N22 04.1	169	16.3	S12 52.2			
2		42	55.8		169	54.0	S21 28.7	257	01.1	N15 01.9	292	43.5	N22 04.0	184	18.5	S12 52.2			
3		57	58.3		184	53.6	S21 29.5	272	02.0	N15 01.5	307	45.7	N22 04.0	199	20.7	S12 52.3			
4		73	00.8		199	53.2	S21 30.3	287	03.0	N15 01.0	322	47.9	N22 04.0	214	22.9	S12 52.4			
FRIDAY	5	88	03.2		214	52.8	S21 31.1	302	04.0	N15 00.5	337	50.1	N22 03.9	229	25.1	S12 52.5			
	6	103	05.7		229	52.4	S21 31.9	317	04.9	N15 00.0	352	52.3	N22 03.9	244	27.3	S12 52.6			
	7	118	08.2		244	52.0	S21 32.7	332	05.9	N14 59.5	7	54.4	N22 03.9	259	29.5	S12 52.7			
	8	133	10.6		259	51.6	S21 33.6	347	06.9	N14 59.1	22	56.6	N22 03.9	274	31.7	S12 52.8			
	9	148	13.1		274	51.2	S21 34.4	2	07.9	N14 58.6	37	58.8	N22 03.8	289	33.9	S12 52.9			
	10	163	15.5		289	50.8	S21 35.2	17	08.8	N14 58.1	53	01.0	N22 03.8	304	36.1	S12 53.0			
	11	178	18.0		304	50.4	S21 36.0	32	09.8	N14 57.6	68	03.2	N22 03.8	319	38.3	S12 53.1			
	12	193	20.5		319	50.0	S21 36.8	47	10.8	N14 57.1	83	05.4	N22 03.7	334	40.5	S12 53.1			
	13	208	22.9		334	49.6	S21 37.6	62	11.7	N14 56.7	98	07.6	N22 03.7	349	42.7	S12 53.2			
	14	223	25.4		349	49.2	S21 38.4	77	12.7	N14 56.2	113	09.8	N22 03.7	4	44.9	S12 53.3			
	15	238	27.9		4	48.8	S21 39.2	92	13.7	N14 55.7	128	12.0	N22 03.6	19	47.1	S12 53.4			
	16	253	30.3		19	48.4	S21 40.0	107	14.6	N14 55.2	143	14.2	N22 03.6	34	49.2	S12 53.5			
	17	268	32.8		34	48.0	S21 40.9	122	15.6	N14 54.7	158	16.3	N22 03.6	49	51.4	S12 53.6			
	18	283	35.3		49	47.6	S21 41.7	137	16.6	N14 54.3	173	18.5	N22 03.5	64	53.6	S12 53.7			
	19	298	37.7		64	47.2	S21 42.5	152	17.6	N14 53.8	188	20.7	N22 03.5	79	55.8	S12 53.8			
	20	313	40.2		79	46.8	S21 43.3	167	18.5	N14 53.3	203	22.9	N22 03.5	94	58.0	S12 53.9			
	21	328	42.7		94	46.4	S21 44.1	182	19.5	N14 52.8	218	25.1	N22 03.4	110	00.2	S12 54.0			
	22	343	45.1		109	46.0	S21 44.9	197	20.5	N14 52.3	233	27.3	N22 03.4	125	02.4	S12 54.0			
	23	358	47.6		124	45.6	S21 45.7	212	21.5	N14 51.8	248	29.5	N22 03.4	140	04.6	S12 54.1			
			v -0.4			d 0.8	v 1.0			d 0.5	v 2.2			d 0.0	v 2.2			d 0.1	

2013 OCT. 2, 3, 4 (WED, THU, FRI)

	SUN							MOON							STARS																	
G.M.T	GHA			Dec				GHA			v				Dec				d				HP				Name		SHA		Dec	
d	h	m	s	°	'	''	°	'	''	°	'	''	°	'	''	°	'	''	°	'	''	°	'	''	°	'	''	°	'	''		
2	0			182	38.6	S	3	33.2		217	56.6	13.6	N	6	05.5	10.0	55.6								Acamar	315	17.8	S40	14.8			
	1			197	38.8	S	3	34.1		232	29.3	13.6	N	5	55.4	10.0	55.6								Achernar	335	26.1	S57	09.9			
	2			212	39.0	S	3	35.1		247	01.9	13.6	N	5	45.4	10.1	55.7								Acrux	173	09.7	S63	10.4			
	3			227	39.1	S	3	36.1		261	34.5	13.6	N	5	35.3	10.1	55.7								Adhara	255	12.4	S28	59.3			
	4			242	39.3	S	3	37.1		276	07.0	13.6	N	5	25.1	10.1	55.7								Albireo	67	10.6	N27	59.7			
W	5			257	39.5	S	3	38.0		290	39.6	13.6	N	5	14.9	10.2	55.7															
E																									Aldebaran	290	49.0	N16	32.1			
D	6			272	39.7	S	3	39.0		305	12.2	13.6	N	5	04.7	10.2	55.8								Alioth	166	21.1	N55	53.2			
N	7			287	39.9	S	3	40.0		319	44.7	13.5	N	4	54.5	10.2	55.8								Alkaid	152	59.2	N49	14.8			
E	8			302	40.1	S	3	40.9		334	17.3	13.5	N	4	44.2	10.3	55.8								Al Na-ir	27	43.1	S46	53.6			
S	9			317	40.3	S	3	41.9		348	49.8	13.5	N	4	33.9	10.3	55.8								Alnilam	275	46.0	S	1	11.6		
D	10			332	40.5	S	3	42.9		3	22.3	13.5	N	4	23.6	10.3	55.9															
A	11			347	40.7	S	3	43.8		17	54.8	13.5	N	4	13.2	10.4	55.9								Alphard	217	56.1	S	8	43.1		
Y																									Alphecca	126	11.1	N26	40.4			
	12			2	40.9	S	3	44.8		32	27.2	13.5	N	4	02.9	10.4	55.9								Alpheratz	357	42.9	N29	10.2			
	13			17	41.1	S	3	45.8		46	59.7	13.5	N	3	52.4	10.4	55.9								Altair	62	07.9	N	8	54.6		
	14			32	41.3	S	3	46.7		61	32.1	13.4	N	3	42.0	10.4	56.0								Ankaa	353	15.1	S42	13.8			
	15			47	41.5	S	3	47.7		76	04.5	13.4	N	3	31.5	10.5	56.0															
	16			62	41.7	S	3	48.7		90	36.9	13.4	N	3	21.0	10.5	56.0								Antares	112	26.2	S26	27.6			
	17			77	41.9	S	3	49.6		105	09.3	13.4	N	3	10.5	10.5	56.0								Arcturus	145	55.9	N19	06.8			
																									Atria	107	28.1	S69	03.2			
	18			92	42.1	S	3	50.6		119	41.7	13.4	N	2	59.9	10.6	56.1								Avior	234	18.1	S59	33.1			
	19			107	42.3	S	3	51.6		134	14.0	13.3	N	2	49.4	10.6	56.1								Bellatrix	278	31.7	N	6	21.7		
	20			122	42.5	S	3	52.5		148	46.4	13.3	N	2	38.8	10.6	56.1															
	21			137	42.7	S	3	53.5		163	18.7	13.3	N	2	28.1	10.6	56.1								Betelgeuse	271	01.0	N	7	24.5		
	22			152	42.9	S	3	54.5		177	50.9	13.3	N	2	17.5	10.6	56.2								Canopus	263	56.0	S52	42.0			
	23			167	43.1	S	3	55.4		192	23.2	13.3	N	2	06.8	10.7	56.2								Capella	280	34.0	N46	00.4			
																									Castor	246	07.8	N31	51.3			
3	0			182	43.3	S	3	56.4		206	55.4	13.2	N	1	56.2	10.7	56.2								Deneb	49	31.1	N45	20.2			
	1			197	43.5	S	3	57.4		221	27.6	13.2	N	1	45.5	10.7	56.3															
	2			212	43.7	S	3	58.3		235	59.8	13.2	N	1	34.7	10.7	56.3								Denebola	182	33.8	N14	29.7			
	3			227	43.9	S	3	59.3		250	32.0	13.2	N	1	24.0	10.7	56.3								Diphda	348	55.4	S17	54.5			
	4			242	44.1	S	4	00.3		265	04.1	13.1	N	1	13.2	10.8	56.3								Dubhe	193	52.1	N61	40.4			
T	5			257	44.2	S	4	01.2		279	36.2	13.1	N	1	02.5	10.8	56.4								Elnath	278	12.3	N28	36.9			
H																									Eltanin	90	46.2	N51	29.7			
U	6			272	44.4	S	4	02.2		294	08.3	13.1	N	0	51.7	10.8	56.4															
R	7			287	44.6	S	4	03.2		308	40.3	13.1	N	0	40.9	10.8	56.4								Enif	33	46.6	N	9	56.6		
S	8			302	44.8	S	4	04.1		323	12.4	13.0	N	0	30.1	10.8	56.4								Fomalhaut	15	23.4	S29	32.8			
D	9			317	45.0	S	4	05.1		337	44.4	13.0	N	0	19.2	10.8	56.5								Gacrux	172	01.2	S57	11.4			
A	10			332	45.2	S	4	06.1		352	16.3	13.0	N	0	08.4	10.8	56.5								Gienah	175	52.4	S17	37.0			
Y	11			347	45.4	S	4	07.0		6	48.3	12.9	S	0	02.5	10.9	56.5								Hadar	148	48.2	S60	26.4			
	12			2	45.6	S	4	08.0		21	20.2	12.9	S	0	13.3	10.9	56.5								Hamal	328	00.2	N23	31.7			
	13			17	45.8	S	4	09.0		35	52.0	12.9	S	0	24.2	10.9	56.6								Kaus Austr.	83	43.6	S34	22.6			
	14			32	46.0	S	4	09.9		50	23.9	12.8	S	0	35.1	10.9	56.6								Kochab	137	21.2	N74	06.2			
	15			47	46.2	S	4	10.9		64	55.7	12.8	S	0	46.0	10.9	56.6								Markab	13	37.8	N15	17.0			
	16			62	46.4	S	4	11.8		79	27.5	12.8	S	0	56.9	10.9	56.6								Menkar	314	14.5	N	4	08.7		
	17			77	46.6	S	4	12.8		93	59.2	12.7	S	1	07.8	10.9	56.7															
																									Menkent	148	07.7	S36	26.2			
	18			92	46.8	S	4	13.8		108	30.9	12.7	S	1	18.7	10.9	56.7								Miaplacidus	221	40.1	S69	46.3			
	19			107	47.0	S	4	14.7		123	02.6	12.7	S	1	29.6	10.9	56.7								Mirfak	308	39.7	N49	54.5			
	20			122	47.1	S	4	15.7		137	34.2	12.6	S	1	40.5	10.9	56.8								Nunki	75	58.1	S26	16.6			
	21			137	47.3	S	4	16.7		152	05.9	12.6	S	1	51.4	10.9	56.8								Peacock	53	18.7	S56	41.4			
	22			152	47.5	S	4	17.6		166	37.4	12.6	S	2	02.3	10.9	56.8															
	23			167	47.7	S	4	18.6		181	09.0	12.5	S	2	13.2																	

2013 OCT. 5, 6, 7 (SAT, SUN, MON)

		ARIES			VENUS			MARS			JUPITER			SATURN						
G.M.T		GHA			Dec			GHA			Dec			GHA			Dec			
d	h	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	°	'	"	
5	0	13	50.0		139	45.2	S21 46.5	227	22.4	N14 51.4	263	31.7	N22 03.4	155	06.8	S12 54.2				
	1	28	52.5		154	44.8	S21 47.3	242	23.4	N14 50.9	278	33.9	N22 03.3	170	09.0	S12 54.3				
	2	43	55.0		169	44.4	S21 48.1	257	24.4	N14 50.4	293	36.1	N22 03.3	185	11.2	S12 54.4				
	3	58	57.4		184	43.9	S21 48.9	272	25.3	N14 49.9	308	38.3	N22 03.3	200	13.4	S12 54.5				
	4	73	59.9		199	43.5	S21 49.7	287	26.3	N14 49.4	323	40.5	N22 03.2	215	15.6	S12 54.6				
S A T	5	89	02.4		214	43.1	S21 50.5	302	27.3	N14 48.9	338	42.7	N22 03.2	230	17.8	S12 54.7				
	6	104	04.8		229	42.7	S21 51.3	317	28.3	N14 48.5	353	44.8	N22 03.2	245	20.0	S12 54.8				
	7	119	07.3		244	42.3	S21 52.1	332	29.2	N14 48.0	8	47.0	N22 03.1	260	22.2	S12 54.9				
	8	134	09.8		259	41.9	S21 52.9	347	30.2	N14 47.5	23	49.2	N22 03.1	275	24.4	S12 54.9				
	9	149	12.2		274	41.5	S21 53.7	2	31.2	N14 47.0	38	51.4	N22 03.1	290	26.6	S12 55.0				
R D A	10	164	14.7		289	41.1	S21 54.5	17	32.2	N14 46.5	53	53.6	N22 03.0	305	28.8	S12 55.1				
	11	179	17.2		304	40.7	S21 55.2	32	33.1	N14 46.0	68	55.8	N22 03.0	320	31.0	S12 55.2				
	12	194	19.6		319	40.3	S21 56.0	47	34.1	N14 45.6	83	58.0	N22 03.0	335	33.2	S12 55.3				
	13	209	22.1		334	39.9	S21 56.8	62	35.1	N14 45.1	99	00.2	N22 03.0	350	35.4	S12 55.4				
	14	224	24.5		349	39.5	S21 57.6	77	36.1	N14 44.6	114	02.4	N22 02.9	5	37.6	S12 55.5				
Y	15	239	27.0		4	39.1	S21 58.4	92	37.0	N14 44.1	129	04.6	N22 02.9	20	39.8	S12 55.6				
	16	254	29.5		19	38.7	S21 59.2	107	38.0	N14 43.6	144	06.8	N22 02.9	35	42.0	S12 55.7				
	17	269	31.9		34	38.3	S21 60.0	122	39.0	N14 43.1	159	09.0	N22 02.8	50	44.2	S12 55.8				
	18	284	34.4		49	37.9	S22 00.8	137	40.0	N14 42.7	174	11.2	N22 02.8	65	46.4	S12 55.8				
	19	299	36.9		64	37.5	S22 01.6	152	40.9	N14 42.2	189	13.4	N22 02.8	80	48.6	S12 55.9				
U N D	20	314	39.3		79	37.1	S22 02.3	167	41.9	N14 41.7	204	15.6	N22 02.7	95	50.8	S12 56.0				
	21	329	41.8		94	36.7	S22 03.1	182	42.9	N14 41.2	219	17.8	N22 02.7	110	52.9	S12 56.1				
	22	344	44.3		109	36.2	S22 03.9	197	43.9	N14 40.7	234	20.0	N22 02.7	125	55.1	S12 56.2				
	23	359	46.7		124	35.8	S22 04.7	212	44.8	N14 40.2	249	22.2	N22 02.7	140	57.3	S12 56.3				
	6	0	14	49.2		139	35.4	S22 05.5	227	45.8	N14 39.7	264	24.4	N22 02.6	155	59.5	S12 56.4			
S U N	1	29	51.6		154	35.0	S22 06.2	242	46.8	N14 39.3	279	26.6	N22 02.6	171	01.7	S12 56.5				
	2	44	54.1		169	34.6	S22 07.0	257	47.8	N14 38.8	294	28.8	N22 02.6	186	03.9	S12 56.6				
	3	59	56.6		184	34.2	S22 07.8	272	48.8	N14 38.3	309	31.0	N22 02.5	201	06.1	S12 56.7				
	4	74	59.0		199	33.8	S22 08.6	287	49.7	N14 37.8	324	33.2	N22 02.5	216	08.3	S12 56.8				
	5	90	01.5		214	33.4	S22 09.4	302	50.7	N14 37.3	339	35.4	N22 02.5	231	10.5	S12 56.8				
A D Y	6	105	04.0		229	33.0	S22 10.1	317	51.7	N14 36.8	354	37.6	N22 02.4	246	12.7	S12 56.9				
	7	120	06.4		244	32.6	S22 10.9	332	52.7	N14 36.3	9	39.8	N22 02.4	261	14.9	S12 57.0				
	8	135	08.9		259	32.2	S22 11.7	347	53.6	N14 35.9	24	42.0	N22 02.4	276	17.1	S12 57.1				
	9	150	11.4		274	31.7	S22 12.4	2	54.6	N14 35.4	39	44.2	N22 02.4	291	19.3	S12 57.2				
	10	165	13.8		289	31.3	S22 13.2	17	55.6	N14 34.9	54	46.4	N22 02.3	306	21.5	S12 57.3				
	11	180	16.3		304	30.9	S22 14.0	32	56.6	N14 34.4	69	48.6	N22 02.3	321	23.7	S12 57.4				
	12	195	18.8		319	30.5	S22 14.8	47	57.6	N14 33.9	84	50.8	N22 02.3	336	25.9	S12 57.5				
	13	210	21.2		334	30.1	S22 15.5	62	58.5	N14 33.4	99	53.0	N22 02.2	351	28.1	S12 57.6				
	14	225	23.7		349	29.7	S22 16.3	77	59.5	N14 32.9	114	55.2	N22 02.2	6	30.3	S12 57.7				
	15	240	26.1		4	29.3	S22 17.1	93	00.5	N14 32.5	129	57.4	N22 02.2	21	32.5	S12 57.7				
	16	255	28.6		19	28.9	S22 17.8	108	01.5	N14 32.0	144	59.6	N22 02.2	36	34.7	S12 57.8				
	17	270	31.1		34	28.4	S22 18.6	123	02.5	N14 31.5	160	01.8	N22 02.1	51	36.8	S12 57.9				
	18	285	33.5		49	28.0	S22 19.4	138	03.4	N14 31.0	175	04.1	N22 02.1	66	39.0	S12 58.0				
	19	300	36.0		64	27.6	S22 20.1	153	04.4	N14 30.5	190	06.3	N22 02.1	81	41.2	S12 58.1				
	20	315	38.5		79	27.2	S22 20.9	168	05.4	N14 30.0	205	08.5	N22 02.0	96	43.4	S12 58.2				
	21	330	40.9		94	26.8	S22 21.6	183	06.4	N14 29.5	220	10.7	N22 02.0	111	45.6	S12 58.3				
	22	345	43.4		109	26.4	S22 22.4	198	07.4	N14 29.0	235	12.9	N22 02.0	126	47.8	S12 58.4				
	23	0	45.9		124	26.0	S22 23.2	213	08.4	N14 28.6	250	15.1	N22 01.9	141	50.0	S12 58.5				
	7	0	15	48.3		139	25.6	S22 23.9	228	09.3	N14 28.1	265	17.3	N22 01.9	156	52.2	S12 58.6			
	M O N	1	30	50.8		154	25.1	S22 24.7	243	10.3	N14 27.6	280	19.5	N22 01.9	171	54.4	S12 58.7			
2		45	53.2		169	24.7	S22 25.4	258	11.3	N14 27.1	295	21.7	N22 01.9	186	56.6	S12 58.7				
3		60	55.7		184	24.3	S22 26.2	273	12.3	N14 26.6	310	23.9	N22 01.8	201	58.8	S12 58.8				
4		75	58.2		199	23.9	S22 27.0	288	13.3	N14 26.1	325	26.1	N22 01.8	217	01.0	S12 58.9				
5		91	00.6		214	23.5	S22 27.7	303	14.3	N14 25.6	340	28.3	N22 01.8	232	03.2	S12 59.0				
D A Y	6	106	03.1		229	23.1	S22 28.5	318	15.2	N14 25.1	355	30.5	N22 01.7	247	05.4	S12 59.1				
	7	121	05.6		244	22.7	S22 29.2	333	16.2	N14 24.6	10	32.7	N22 01.7	262	07.6	S12 59.2				
	8	136	08.0		259	22.2	S22 30.0	348	17.2	N14 24.2	25	35.0	N22 01.7	277	09.8	S12 59.3				
	9	151	10.5		274	21.8	S22 30.7	3	18.2	N14 23.7	40	37.2	N22 01.7	292	11.9	S12 59.4				
	10	166	13.0		289	21.4	S22 31.5	18	19.2	N14 23.2	55	39.4	N22 01.6	307	14.1	S12 59.5				
	11	181	15.4		304	21.0	S22 32.2	33	20.2	N14 22.7	70	41.6	N22 01.6	322	16.3	S12 59.6				
	12	196	17.9		319	20.6	S22 33.0	48	21.1	N14 22.2	85	43.8	N22 01.6	337	18.5	S12 59.6				
	13	211	20.4		334	20.2	S22 33.7	63	22.1	N14 21.7	100	46.0	N22 01.5	352	20.7	S12 59.7				
	14	226	22.8		349	19.7	S22 34.5	78	23.1	N14 21.2	115	48.2	N22 01.5	7	22.9	S12 59.8				
	15	241	25.3		4	19.3	S22 35.2	93	24.1	N14 20.7	130	50.4	N22 01.5	22	25.1	S12 59.9				
	16	256	27.7		19	18.9	S22 36.0	108	25.1	N14 20.2	145	52.6	N22 01.5	37	27.3	S13 00.0				
	17	271	30.2		34	18.5	S22 36.7	123	26.1	N14 19.8	160	54.9	N22 01.4	52	29.5	S13 00.1				
	18	286	32.7		49	18.1	S22 37.4	138	27.1	N14 19.3	175	57.1	N22 01.4	67	31.7	S13 00.2				
	19	301	35.1		64	17.7	S22 38.2	153	28.											

	SUN				MOON				STARS				
G.M.T d h	GHA °		Dec °		GHA °	v	Dec °	d	HP	Name	SHA °		Dec °
5 0	182	52.5	S 4	42.7	184	03.5	11.4 S	6 43.5	10.6	57.5	Acamar	315	17.8 S40 14.8
1	197	52.7	S 4	43.6	198	33.9	11.4 S	6 54.1	10.6	57.5	Achernar	335	26.1 S57 09.9
2	212	52.8	S 4	44.6	213	04.2	11.3 S	7 04.6	10.6	57.5	Acrux	173	09.7 S63 10.4
3	227	53.0	S 4	45.6	227	34.5	11.3 S	7 15.2	10.5	57.6	Adhara	255	12.4 S28 59.3
4	242	53.2	S 4	46.5	242	04.7	11.2 S	7 25.7	10.5	57.6	Albireo	67	10.7 N27 59.7
S 5	257	53.4	S 4	47.5	256	34.9	11.2 S	7 36.1	10.5	57.6			
A 6											Aldebaran	290	48.9 N16 32.1
T 7	272	53.6	S 4	48.5	271	05.0	11.1 S	7 46.6	10.4	57.6	Alioth	166	21.1 N55 53.2
U 8	287	53.8	S 4	49.4	285	35.1	11.1 S	7 57.0	10.4	57.6	Alkaid	152	59.2 N49 14.8
R 9	302	54.0	S 4	50.4	300	05.1	11.0 S	8 07.4	10.4	57.7	Al Na-ir	27	43.1 S46 53.6
D 10	317	54.1	S 4	51.3	314	35.0	10.9 S	8 17.7	10.3	57.7	Alnilam	275	46.0 S 1 11.6
A 11	332	54.3	S 4	52.3	329	04.9	10.9 S	8 28.0	10.3	57.7			
Y 12	347	54.5	S 4	53.3	343	34.7	10.8 S	8 38.3	10.3	57.7	Alphard	217	56.0 S 8 43.1
											Alphecca	126	11.1 N26 40.4
13	2	54.7	S 4	54.2	358	04.5	10.8 S	8 48.5	10.2	57.8	Alpheratz	357	42.9 N29 10.2
14	17	54.9	S 4	55.2	12	34.2	10.7 S	8 58.7	10.2	57.8	Altair	62	08.0 N 8 54.6
15	32	55.1	S 4	56.1	27	03.9	10.7 S	9 08.8	10.1	57.8	Ankaa	353	15.1 S42 13.8
16	47	55.3	S 4	57.1	41	33.5	10.6 S	9 18.9	10.1	57.8			
17	62	55.4	S 4	58.1	56	03.1	10.6 S	9 29.0	10.1	57.9	Antares	112	26.2 S26 27.6
18	77	55.6	S 4	59.0	70	32.6	10.5 S	9 39.0	10.0	57.9	Arcturus	145	55.9 N19 06.8
19	92	55.8	S 4	60.0	85	02.0	10.4 S	9 49.0	10.0	57.9	Atria	107	28.1 S69 03.2
20	107	56.0	S 5	00.9	99	31.4	10.4 S	9 58.9	9.9	57.9	Avior	234	18.1 S59 33.1
21	122	56.2	S 5	01.9	114	00.7	10.3 S	10 08.8	9.9	57.9	Bellatrix	278	31.7 N 6 21.7
22	137	56.4	S 5	02.9	128	30.0	10.3 S	10 18.6	9.8	58.0	Betelgeuse	271	01.0 N 7 24.5
23	152	56.6	S 5	03.8	142	59.2	10.2 S	10 28.4	9.8	58.0	Canopus	263	56.0 S52 42.0
	167	56.7	S 5	04.8	157	28.3	10.1 S	10 38.2	9.7	58.0	Capella	280	33.9 N46 00.5
6 0	182	56.9	S 5	05.7	171	57.4	10.1 S	10 47.8	9.7	58.0	Castor	246	07.7 N31 51.3
1	197	57.1	S 5	06.7	186	26.4	10.0 S	10 57.5	9.6	58.1	Deneb	49	31.1 N45 20.2
2	212	57.3	S 5	07.7	200	55.4	10.0 S	11 07.0	9.6	58.1	Denebola	182	33.8 N14 29.7
3	227	57.5	S 5	08.6	215	24.3	9.9 S	11 16.6	9.5	58.1	Diphda	348	55.4 S17 54.5
4	242	57.7	S 5	09.6	229	53.2	9.8 S	11 26.0	9.5	58.1	Dubhe	193	52.1 N61 40.4
S 5	257	57.8	S 5	10									