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

	ARIES	VENUS	MARS	JUPITER	SATURN
G.M.T	GHA	GHA Dec	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 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
A					
T 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
U 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
R 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
D 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
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
Y 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
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
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
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
S 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
U					
N 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
D 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
A 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
Y 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
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
M 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
O					
N 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
D 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
A 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

Y 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 28.0 N14 18.8	190 59.3 N22 01.4	82 33.9 S13 00.3
20	316 37.6	79 17.2 S22 38.9	168 29.0 N14 18.3	206 01.5 N22 01.3	97 36.1 S13 00.4
21	331 40.1	94 16.8 S22 39.7	183 30.0 N14 17.8	221 03.7 N22 01.3	112 38.3 S13 00.5
22	346 42.5	109 16.4 S22 40.4	198 31.0 N14 17.3	236 05.9 N22 01.3	127 40.5 S13 00.6
23	1 45.0	124 16.0 S22 41.1	213 32.0 N14 16.8	251 08.1 N22 01.3	142 42.6 S13 00.6
	v -0.4 d 0.8		v 1.0 d 0.5	v 2.2 d 0.0	v 2.2 d 0.1

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	SUN	MOON		STARS	
G.M.T	GHA Dec	GHA v Dec d HP		Name	SHA Dec
d h	° ' ° '	° ' ' ° ' ' '			° ' ° '
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				Aldebaran	290 48.9 N16 32.1
T 6	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 7	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 8	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 9	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 10	332 54.3 S 4 52.3	329 04.9 10.9 S 8 28.0 10.3 57.7			
Y 11	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
12	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
13	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
14	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
15	47 55.3 S 4 57.1	41 33.5 10.6 S 9 18.9 10.1 57.8			
16	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
17	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
				Atria	107 28.1 S69 03.2
18	92 55.8 S 4 60.0	85 02.0 10.4 S 9 49.0 10.0 57.9		Avior	234 18.1 S59 33.1
19	107 56.0 S 5 00.9	99 31.4 10.4 S 9 58.9 9.9 57.9		Bellatrix	278 31.7 N 6 21.7
20	122 56.2 S 5 01.9	114 00.7 10.3 S10 08.8 9.9 57.9			
21	137 56.4 S 5 02.9	128 30.0 10.3 S10 18.6 9.8 58.0		Betelgeuse	271 01.0 N 7 24.5
22	152 56.6 S 5 03.8	142 59.2 10.2 S10 28.4 9.8 58.0		Canopus	263 56.0 S52 42.0
23	167 56.7 S 5 04.8	157 28.3 10.1 S10 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 S10 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 S10 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 S11 07.0 9.6 58.1			
3	227 57.5 S 5 08.6	215 24.3 9.9 S11 16.6 9.5 58.1		Denebola	182 33.8 N14 29.7
4	242 57.7 S 5 09.6	229 53.2 9.8 S11 26.0 9.5 58.1		Diphda	348 55.4 S17 54.5
S 5	257 57.8 S 5 10.5	244 22.0 9.8 S11 35.4 9.4 58.1		Dubhe	193 52.1 N61 40.4
U				Elnath	278 12.2 N28 36.9
N 6	272 58.0 S 5 11.5	258 50.7 9.7 S11 44.8 9.3 58.2		Eltanin	90 46.2 N51 29.6
D 7	287 58.2 S 5 12.5	273 19.4 9.7 S11 54.1 9.3 58.2			
A 8	302 58.4 S 5 13.4	287 48.0 9.6 S12 03.3 9.2 58.2		Enif	33 46.6 N 9 56.6
Y 9	317 58.6 S 5 14.4	302 16.5 9.5 S12 12.4 9.2 58.2		Fomalhaut	15 23.4 S29 32.8
10	332 58.7 S 5 15.3	316 45.0 9.5 S12 21.5 9.1 58.2		Gacrux	172 01.2 S57 11.4
11	347 58.9 S 5 16.3	331 13.4 9.4 S12 30.6 9.0 58.3		Gienah	175 52.4 S17 37.0
				Hadar	148 48.2 S60 26.3
12	2 59.1 S 5 17.3	345 41.8 9.4 S12 39.5 9.0 58.3		Hamal	328 00.2 N23 31.7
13	17 59.3 S 5 18.2	0 10.1 9.3 S12 48.4 8.9 58.3		Kaus Austr.	83 43.6 S34 22.6
14	32 59.5 S 5 19.2	14 38.3 9.2 S12 57.3 8.8 58.3		Kochab	137 21.2 N74 06.2
15	47 59.7 S 5 20.1	29 06.5 9.2 S13 06.0 8.8 58.3		Markab	13 37.8 N15 17.0
16	62 59.8 S 5 21.1	43 34.6 9.1 S13 14.7 8.7 58.4		Menkar	314 14.5 N 4 08.7
17	78 00.0 S 5 22.0	58 02.6 9.1 S13 23.3 8.6 58.4			
				Menkent	148 07.7 S36 26.2
18	93 00.2 S 5 23.0	72 30.6 9.0 S13 31.9 8.5 58.4		Miaplacidus	221 40.0 S69 46.3
19	108 00.4 S 5 24.0	86 58.6 8.9 S13 40.4 8.5 58.4		Mirfak	308 39.6 N49 54.5
20	123 00.6 S 5 24.9	101 26.4 8.9 S13 48.8 8.4 58.4		Nunki	75 58.1 S26 16.6
21	138 00.7 S 5 25.9	115 54.3 8.8 S13 57.1 8.3 58.5		Peacock	53 18.7 S56 41.5
22	153 00.9 S 5 26.8	130 22.0 8.7 S14 05.3 8.2 58.5			
23	168 01.1 S 5 27.8	144 49.7 8.7 S14 13.5 8.2 58.5		Polaris	318 38.0 N89 18.3

												Pollux	243 27.6 N27 59.4
7	0	183	01.3	S 5	28.7	159	17.3	8.6	S14	21.6	8.1 58.5	Procyon	244 59.6 N 5 11.3
	1	198	01.5	S 5	29.7	173	44.9	8.6	S14	29.6	8.0 58.5	Rasalhague	96 06.4 N12 33.4
	2	213	01.6	S 5	30.7	188	12.4	8.5	S14	37.5	7.9 58.5	Regulus	207 43.5 N11 53.9
	3	228	01.8	S 5	31.6	202	39.8	8.4	S14	45.4	7.8 58.6		
	4	243	02.0	S 5	32.6	217	07.2	8.4	S14	53.1	7.8 58.6	Rigel	281 11.7 S 8 11.1
M	5	258	02.2	S 5	33.5	231	34.5	8.3	S15	00.8	7.7 58.6	Rigil Kent	139 52.1 S60 53.5
O												Sabik	102 12.5 S15 44.3
N	6	273	02.4	S 5	34.5	246	01.8	8.3	S15	08.4	7.6 58.6	Schedar	349 39.6 N56 36.9
D	7	288	02.5	S 5	35.4	260	29.0	8.2	S15	15.9	7.5 58.6	Shaula	96 21.8 S37 06.7
A	8	303	02.7	S 5	36.4	274	56.2	8.1	S15	23.3	7.4 58.6		
Y	9	318	02.9	S 5	37.3	289	23.3	8.1	S15	30.6	7.3 58.7	Sirius	258 33.5 S16 44.0
	10	333	03.1	S 5	38.3	303	50.3	8.0	S15	37.8	7.2 58.7	Spica	158 31.3 S11 13.9
	11	348	03.2	S 5	39.3	318	17.3	8.0	S15	45.0	7.1 58.7	Suhail	222 52.5 S43 29.2
												Vega	80 38.9 N38 48.2
	12	3	03.4	S 5	40.2	332	44.2	7.9	S15	52.0	7.0 58.7	Zuben-ubi	137 06.0 S16 05.8
	13	18	03.6	S 5	41.2	347	11.1	7.9	S15	59.0	6.9 58.7		
	14	33	03.8	S 5	42.1	1	37.9	7.8	S16	05.8	6.9 58.7		
	15	48	04.0	S 5	43.1	16	04.6	7.7	S16	12.6	6.8 58.7		
	16	63	04.1	S 5	44.0	30	31.3	7.7	S16	19.2	6.7 58.8		
	17	78	04.3	S 5	45.0	44	57.9	7.6	S16	25.8	6.6 58.8		
	18	93	04.5	S 5	45.9	59	24.5	7.6	S16	32.3	6.5 58.8		
	19	108	04.7	S 5	46.9	73	51.0	7.5	S16	38.6	6.4 58.8		
	20	123	04.8	S 5	47.9	88	17.5	7.5	S16	44.9	6.3 58.8		
	21	138	05.0	S 5	48.8	102	43.9	7.4	S16	51.1	6.2 58.8		
	22	153	05.2	S 5	49.8	117	10.3	7.4	S16	57.1	6.1 58.8		
	23	168	05.4	S 5	50.7	131	36.6	7.3	S17	03.1	6.0 58.9		
		S.D.	16.0	d	1.0	S.D.		15.7		15.9	16.0		

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