

Sun										Venus										Moon a = 0.06										
UT	GHA		ddGHA		Dec		dDec			GHA		ddGHA		Dec		dDec			GHA		ddGHA		Dec		dDec		UT			
	°	'	°	'	°	'	°	'		°	'	°	'	°	'	°	'		°	'	°	'	°	'	°	'				
00	180	29.6	-00.1		N	22	14.5	+00.3		201	13.2	-00.6		N	17	03.0	+00.9		166	09.0	-32.6		N	23	10.5	-01.9	00			
01	195	29.5	-00.2		N	22	14.8	+00.3		216	12.6	-00.6		N	17	03.9	+00.8		180	36.4	-32.7		N	23	08.6	-02.0	01			
02	210	29.3	-00.1		N	22	15.1	+00.3		231	12.0	-00.6		N	17	04.7	+00.9		195	03.7	-32.7		N	23	06.6	-02.2	02			
03	225	29.2	-00.1		N	22	15.4	+00.3		246	11.4	-00.6		N	17	05.6	+00.8		209	31.0	-32.7		N	23	04.4	-02.3	03			
04	240	29.1	-00.1		N	22	15.7	+00.4		261	10.8	-00.6		N	17	06.4	+00.8		223	58.3	-32.7		N	23	02.1	-02.4	04			
05	255	29.0	-00.1		N	22	16.1	+00.3		276	10.2	-00.6		N	17	07.2	+00.9		238	25.6	-32.7		N	22	59.7	-02.6	05			
06	270	28.9	-00.1		N	22	16.4	+00.3		291	09.6	-00.5		N	17	08.1	+00.8		252	52.9	-32.7		N	22	57.1	-02.7	06			
07	285	28.8	-00.1		N	22	16.7	+00.3		306	09.1	-00.6		N	17	08.9	+00.9		267	20.2	-32.7		N	22	54.4	-02.8	07			
08	300	28.7	-00.1		N	22	17.0	+00.3		321	08.5	-00.6		N	17	09.8	+00.8		281	47.5	-32.7		N	22	51.6	-03.0	08			
09	315	28.6	-00.1		N	22	17.3	+00.3		336	07.9	-00.6		N	17	10.6	+00.9		296	14.8	-32.7		N	22	48.6	-03.1	09			
10	330	28.5	-00.1		N	22	17.6	+00.3		351	07.3	-00.6		N	17	11.5	+00.8		310	42.1	-32.7		N	22	45.5	-03.2	10			
11	345	28.4	-00.1		N	22	17.9	+00.3		6	06.7	-00.6		N	17	12.3	+00.8		325	09.4	-32.7		N	22	42.3	-03.3	11			
12	0	28.3	-00.1		N	22	18.2	+00.3		21	06.1	-00.6		N	17	13.1	+00.9		339	36.7	-32.7		N	22	39.0	-03.5	12			
13	15	28.2	-00.1		N	22	18.5	+00.3		36	05.5	-00.6		N	17	14.0	+00.8		354	04.0	-32.7		N	22	35.5	-03.6	13			
14	30	28.1	-00.1		N	22	18.8	+00.3		51	04.9	-00.6		N	17	14.8	+00.9		8	31.3	-32.7		N	22	31.9	-03.8	14			
15	45	28.0	-00.1		N	22	19.1	+00.4		66	04.3	-00.6		N	17	15.7	+00.8		22	58.6	-32.7		N	22	28.1	-03.8	15			
16	60	27.9	-00.1		N	22	19.5	+00.3		81	03.7	-00.6		N	17	16.5	+00.8		37	25.9	-32.7		N	22	24.3	-04.0	16			
17	75	27.8	-00.1		N	22	19.8	+00.3		96	03.1	-00.6		N	17	17.3	+00.9		51	53.2	-32.6		N	22	20.3	-04.2	17			
18	90	27.7	-00.1		N	22	20.1	+00.3		111	02.5	-00.6		N	17	18.2	+00.8		66	20.6	-32.7		N	22	16.1	-04.2	18			
19	105	27.6	-00.1		N	22	20.4	+00.3		126	01.9	-00.6		N	17	19.0	+00.8		80	47.9	-32.6		N	22	11.9	-04.4	19			
20	120	27.5	-00.1		N	22	20.7	+00.3		141	01.3	-00.6		N	17	19.8	+00.9		95	15.3	-32.6		N	22	07.5	-04.5	20			
21	135	27.4	-00.1		N	22	21.0	+00.3		156	00.7	-00.6		N	17	20.7	+00.8		109	42.7	-32.6		N	22	03.0	-04.7	21			
22	150	27.3	-00.1		N	22	21.3	+00.3		171	00.1	-00.6		N	17	21.5	+00.8		124	10.1	-32.6		N	21	58.3	-04.7	22			
23	165	27.2	-00.1		N	22	21.6	+00.3		185	59.5	-00.6		N	17	22.3	+00.9		138	37.5	-32.6		N	21	53.6	-04.9	23			
UT 02 06 10 14 18 22 SD 15'8 15'8 15'8 15'8 15'8 15'8 HP 00'1 00'1 00'1 00'1 00'1 00'1 Greenwich Culmination Time: 11:58										UT 02 06 10 14 18 22 SD 00'1 00'1 00'1 00'1 00'1 00'1 HP 00'1 00'1 00'1 00'1 00'1 00'1 Greenwich Culmination Time: 10:36										UT 02 06 10 14 18 22 SD 15'4 15'4 15'4 15'5 15'5 15'5 HP 56'5 56'5 56'6 56'7 56'8 56'9 Greenwich Culmination Time: 13:25										

Mars										Jupiter										Saturn										
UT	GHA		ddGHA		Dec		dDec			GHA		ddGHA		Dec		dDec			GHA		ddGHA		Dec		dDec		UT			
	°	'	°	'	°	'	°	'		°	'	°	'	°	'	°	'		°	'	°	'	°	'	°	'				
00	206	34.6	+00.6		N	16	29.4	+00.5		223	06.4	+02.0		N	10	18.4	+00.2		60	24.4	+02.5		S	01	46.3	+00.0	00			
01	221	35.2	+00.6		N	16	29.9	+00.5		238	08.4	+01.9		N	10	18.6	+00.2		75	26.9	+02.5		S	01	46.3	+00.0	01			
02	236	35.8	+00.7		N	16	30.4	+00.6		253	10.3	+02.0		N	10	18.8	+00.2		90	29.4	+02.5		S	01	46.3	+00.0	02			
03	251	36.5	+00.6		N	16	31.0	+00.5		268	12.3	+02.0		N	10	19.0	+00.2		105	31.9	+02.5		S	01	46.3	+00.0	03			
04	266	37.1	+00.6		N	16	31.5	+00.6		283	14.3	+02.0		N	10	19.2	+00.1		120	34.4	+02.5		S	01	46.3	+00.0	04			
05	281	37.7	+00.7		N	16	32.1	+00.5		298	16.3	+01.9		N	10	19.3	+00.2		135	36.9	+02.5		S	01	46.3	-00.1	05			
06	296	38.4	+00.6		N	16	32.6	+00.6		313	18.2	+02.0		N	10	19.5	+00.2		150	39.4	+02.5		S	01	46.2	+00.0	06			
07	311	39.0	+00.7		N	16	33.2	+00.5		328	20.2	+02.0		N	10	19.7	+00.2		165	41.9	+02.5		S	01	46.2	+00.0	07			
08	326	39.7	+00.6		N	16	33.7	+00.6		343	22.2	+01.9		N	10	19.9	+00.2		180	44.4	+02.5		S	01	46.2	+00.0	08			
09	341	40.3	+00.6		N	16	34.3	+00.5		358	24.1	+02.0		N	10	20.1	+00.1		195	46.9	+02.5		S	01	46.2	+00.0	09			
10	356	40.9	+00.7		N	16	34.8	+00.5		13	26.1	+02.0		N	10	20.2	+00.2		210	49.4	+02.5		S	01	46.2	+00.0	10			
11	11	41.6	+00.6		N	16	35.3	+00.6		28	28.1	+01.9		N	10	20.4	+00.2		225	51.9	+02.6		S	01	46.2	+00.0	11			
12	26	42.2	+00.7		N	16	35.9	+00.5		43	30.0	+02.0		N	10	20.6	+00.2		240	54.5	+02.5		S	01	46.2	+00.0	12			
13	41	42.9	+00.6		N	16	36.4	+00.6		58	32.0	+02.0		N	10	20.8	+00.1		255	57.0	+02.5		S	01	46.2	+00.0	13			
14	56	43.5	+00.6		N	16	37.0	+00.5		73	34.0	+02.0		N	10	20.9	+00.2		270	59.5	+02.5		S	01	46.2	+00.0	14			
15	71	44.1	+00.7		N	16	37.5	+00.5		88	36.0	+01.9		N	10	21.1	+00.2		286	02.0	+02.5		S	01	46.2	+00.0	15			
16	86	44.8	+00.6		N	16	38.0	+00.6		103	37.9	+02.0		N	10	21.3	+00.2		301	04.5	+02.5		S	01	46.2	+00.0	16			
17	101	45.4	+00.6		N	16	38.6	+00.5		118	39.9	+02.0		N	10	21.5	+00.1		316	07.0	+02.5		S	01	46.2	+00.0	17			
18	116	46.0	+00.7		N	16	39.1	+00.6		133	41.9	+01.9		N	10	21.6	+00.2		331	09.5	+02.5		S	01	46.2	+00.0	18			
19	131	46.7	+00.6		N	16	39.7	+00.5		148	43.8	+02.0		N	10	21.8	+00.2		346	12.0	+02.5		S	01	46.2	+00.0	19			
20	146	47.3	+00.7		N	16	40.2	+00.5		163	45.8	+02.0		N	10	22.0	+00.2		1	14.5	+02.5		S	01	46.2	-00.1	20			
21	161	48.0	+00.6		N	16	40.7	+00.6		178	47.8	+01.9		N	10	22.2	+00.2		16	17.0	+02.5		S	01	46.1	+00.0	21			
22	176	48.6	+00.6		N	16	41.3	+00.5		193	49.7	+02.0		N	10	22.4	+00.1		31	19.5	+02.5		S	01	46.1	+00.0	22			
23	191	49.2	+00.7		N	16	41.8	+00.6		208	51.7	+02.0		N	10	22.5	+00.2		46	22.0	+02.5		S	01	46.1	+00.0	23			
UT 02 06 10 14 18 22 SD 00'0 00'0 00'0 00'0 00'0 00'0 HP 00'1 00'1 00'1 00'1 00'1 00'1 Greenwich Culmination Time: 10:13										UT 02 06 10 14 18 22 SD 00'3 00'3 00'3 00'3 00'3 00'3 HP 00'0 00'0 00'0 00'0 00'0 00'0 Greenwich Culmination Time: 09:06										UT 02 06 10 14 18 22 SD 00'2 00'2 00'2 00'2 00'2 00'2 HP 00'0 00'0 00'0 00'0 00'0 00'0 Greenwich Culmination Time: 19:55										