

Aries			Venus			Mars			Jupiter			Saturn		
Fri	GHA	Dec	GHA	Dec	Dec	GHA	Dec	Dec	GHA	Dec	Dec	GHA	Dec	Dec
0	156°50.7	164°49.4	S04°57.1	187°05.1	S13°28.9	50°10.1	N22°53.9	154°37.9	S01°21.9					
1	171°53.1	179°49.0	55.9	202°05.7	28.2	65°12.7	53.9	169°40.1	21.8					
2	186°55.6	194°48.6	54.6	217°06.3	27.5	80°15.3	53.9	184°42.3	50.0					
3	201°58.1	209°48.2	53.4	232°06.8	26.9	95°17.8	53.9	199°44.5	21.6					
4	217°00.5	224°47.8	52.1	247°07.4	26.2	110°20.4	53.9	214°46.7	21.4					
5	232°03.0	239°47.4	50.9	262°07.9	25.5	125°23.0	53.9	229°48.9	21.3					
6	247°05.5	254°47.0	S04°49.6	277°08.5	S13°24.8	140°25.5	N22°53.9	244°51.1	S01°21.2					
7	262°07.9	269°46.6	48.3	292°09.1	24.2	155°28.1	54.0	259°53.3	21.1					
8	277°10.4	284°46.2	47.1	307°09.6	23.5	170°30.7	54.0	274°55.2	21.0					
9	292°12.9	299°45.8	45.8	322°10.2	22.8	185°33.3	54.0	289°57.7	20.8					
10	307°15.3	314°45.4	44.5	337°10.8	22.1	200°35.8	54.0	304°59.9	20.7					
11	322°17.8	329°45.0	43.3	352°11.3	21.4	215°38.4	54.0	320°02.1	20.6					
12	337°20.2	344°44.6	S04°42.0	7°11.9	S13°20.8	230°41.0	N22°54.0	335°04.3	S01°20.5					
13	352°22.7	359°44.2	40.8	22°12.5	20.1	245°43.5	54.0	350°06.5	20.4					
14	7°25.2	14°43.8	39.5	37°13.0	19.4	260°46.1	54.1	5°08.7	20.1					
15	22°27.6	29°43.4	38.2	52°13.6	18.7	275°48.6	54.1	20°10.9	20.1					
16	37°30.1	44°43.0	37.0	67°14.1	18.1	290°51.2	54.1	35°13.0	20.0					
17	52°32.6	59°42.6	35.7	82°14.7	17.4	305°53.8	54.1	50°15.2	19.9					
18	67°35.0	74°42.2	S04°34.5	97°15.3	S13°16.7	320°56.3	N22°54.1	65°17.4	S01°19.8					
19	82°37.5	89°41.8	33.2	112°15.8	16.0	335°58.9	54.1	80°19.6	19.6					
20	97°40.0	104°41.4	31.9	127°16.3	15.3	351°01.5	54.1	95°21.8	19.5					
21	112°42.4	119°41.0	30.7	142°17.0	14.7	6°04.0	54.2	110°24.0	19.4					
22	127°44.9	134°40.6	29.4	157°17.5	14.0	21°06.6	54.2	125°26.2	19.3					
23	142°47.4	149°40.2	28.1	172°18.1	13.3	36°09.2	54.2	140°28.4	19.2					
Mer.pass. 13:30 ν -0.4' d-1.3' m-3.91 ν 0.6' d-0.7' m 1.14 ν 2.6' d 0.0' m -2.46 ν 2.2' d -0.1' m 0.99														

Sat	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec
0	157°49.8	164°39.8	S04°26.9	187°18.7	S13°12.6	51°11.7	N22°54.2	155°30.6	S01°19.0	
1	172°52.3	179°39.5	25.6	202°19.2	11.9	66°14.3	54.2	170°32.8	18.9	
2	187°54.7	194°39.1	24.4	217°19.8	11.2	81°16.8	54.2	185°35.0	18.8	
3	202°57.2	209°38.7	23.1	232°20.4	10.6	96°19.4	54.2	200°37.2	18.7	
4	217°59.7	224°38.3	21.8	247°20.9	9.9	111°22.0	54.2	215°39.4	18.6	
5	233°02.1	239°37.9	20.6	262°21.5	9.2	126°24.5	54.3	230°41.6	18.4	
6	248°04.6	254°37.5	S04°19.3	277°22.1	S13°08.5	141°27.1	N22°54.3	245°43.7	S01°18.3	
7	263°07.1	269°37.1	18.0	292°22.6	07.8	156°29.6	54.3	260°45.9	18.2	
8	278°09.5	284°36.7	16.8	307°23.2	07.2	171°32.2	54.3	275°48.1	18.1	
9	293°12.0	299°36.3	15.5	322°23.8	06.5	186°34.8	54.3	290°50.3	18.0	
10	308°14.5	314°35.9	14.2	337°24.3	05.8	201°37.3	54.3	305°52.5	17.8	
11	323°16.9	329°35.5	13.0	352°24.9	05.1	216°39.9	54.3	320°54.7	17.7	
12	338°19.4	344°35.1	S04°11.7	7°25.5	S13°04.4	231°42.4	N22°54.3	335°56.9	S01°17.6	
13	353°21.8	359°34.7	10.4	22°26.0	03.7	246°45.0	54.4	350°59.1	17.5	
14	8°24.3	14°34.4	09.2	37°26.6	03.1	261°47.5	54.4	6°01.3	17.4	
15	23°26.8	29°34.0	07.9	52°27.2	02.4	276°50.1	54.4	21°03.5	17.2	
16	38°29.2	44°33.6	06.6	67°27.7	01.7	291°52.7	54.4	36°05.7	17.1	
17	53°31.7	59°33.2	05.4	82°28.3	01.0	306°55.2	54.4	51°07.9	17.0	
18	68°34.2	74°32.8	S04°04.1	97°28.9	S13°00.3	321°57.8	N22°54.4	66°10.1	S01°16.9	
19	83°36.6	89°32.4	02.8	112°29.5	12°59.6	337°00.3	54.4	81°12.2	16.8	
20	98°39.1	104°32.0	01.6	127°30.0	58.9	352°02.9	54.4	96°14.4	16.6	
21	113°41.6	119°31.6	04°00.3	142°30.6	58.3	7°05.4	54.5	111°16.6	16.5	
22	128°44.0	134°31.2	03°59.0	157°31.2	57.6	22°08.0	54.5	126°18.8	16.4	
23	143°46.5	149°30.9	57.8	172°31.7	56.9	37°10.5	54.5	141°21.0	16.3	
Mer.pass. 13:26 ν -0.4' d-1.3' m-3.91 ν 0.6' d-0.7' m 1.14 ν 2.6' d 0.0' m -2.45 ν 2.2' d -0.1' m 0.99										

Sun	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec	
0	158°49.0	164°30.5	S03°56.5	187°32.3	S12°56.2	52°13.1	N22°54.5	156°23.2	S01°16.2
1	173°51.4	179°30.1	55.2	202°32.9	55.5	67°15.6	54.5	171°25.4	16.0
2	188°53.9	194°29.7	54.0	217°33.4	54.8	82°18.2	54.5	186°27.6	15.9
3	203°56.3	209°29.3	52.7	232°34.0	54.1	97°20.8	54.5	201°29.8	15.8
4	218°58.8	224°28.9	51.4	247°34.6	53.4	112°23.3	54.5	216°32.0	15.7
5	234°01.3	239°28.5	50.1	262°35.2	52.8	127°25.9	54.6	231°34.2	15.6
6	249°03.7	254°28.1	S03°48.9	277°35.7	S12°52.1	142°28.4	N22°54.6	246°36.4	S01°15.4
7	264°06.2	269°27.7	47.6	292°36.3	51.4	157°31.0	54.6	261°38.5	15.3
8	279°08.7	284°27.4	46.3	307°36.9	50.7	172°33.5	54.6	276°40.7	15.2
9	294°11.1	299°27.0	45.1	322°37.4	50.0	187°36.1	54.6	291°42.9	15.1
10	309°13.6	314°26.6	43.8	337°38.0	49.3	202°38.6	54.6	306°45.1	15.0
11	324°16.1	329°26.2	42.5	352°38.6	48.6	217°41.2	54.6	321°47.3	14.8
12	339°18.5	344°25.8	S03°41.3	7°39.2	S12°47.9	232°43.7	N22°54.7	336°49.5	S01°14.7
13	354°21.0	359°25.4	40.0	22°39.7	47.3	247°46.3	54.6	351°51.7	14.6
14	9°23.5	14°25.0	38.7	37°40.3	46.6	262°48.8	54.7	6°53.9	14.5
15	24°25.9	29°24.7	37.4	52°40.9	45.9	277°51.3	54.7	21°56.1	14.4
16	39°28.4	44°24.3	36.2	67°41.4	45.2	292°53.9	54.7	36°58.3	14.2
17	54°30.8	59°23.9	34.9	82°42.0	44.5	307°56.4	54.7	52°00.5	14.1
18	69°33.3	74°23.5	S03°33.3	97°42.6	S12°43.8	322°59.0	N22°54.7	67°02.6	S01°14.0
19	84°35.8	89°23.1	32.4	112°43.2	43.1	338°01.5	54.7	82°04.8	13.9
20	99°38.2	104°22.7	31.1	127°43.7	42.4	353°04.1	54.7	97°07.0	13.8
21	114°40.7	119°22.3	29.8	142°44.3	41.7	8°06.6	54.7	112°09.2	13.6
22	129°43.2	134°22.0	28.5	157°44.9	41.0	23°09.2	54.8	127°11.4	13.5
23	144°45.6	149°21.6	27.3	172°45.5	40.4	38°11.7	54.8	142°13.6	13.4
Mer.pass. 13:23 ν -0.4' d-1.3' m-3.91 ν 0.6' d-0.7' m 1.14 ν 2.6' d 0.0' m -2.44 ν 2.2' d -0.1' m 0.99									

Stars		
SHA	Dec	
Alpheratz	357°34.1	29°14.1
Ankaa	353°06.6	42°10.0
Schedar	349°30.4	56°41.0
Dhifha	348°46.6	-17°50.4
Achernar	335°19.8	-57°06.4
Hamal	327°50.3	23°35.2
Polaris	313°43.4	89°22.8
Acamar	315°11.2	-40°12.2
Menkar	314°05.3	4°11.5
Mirfak	308°27.0	49°57.4
Aldebaran	290°38.5	16°33.7
Rigel	281°02.9	-8°10.4
Capella	280°20.4	46°01.6
Bellatrix	278°21.8	6°22.3
Elnath	278°00.6	28°37.8
Anilam	275°36.7	-1°11.2
Betelgeuse	270°50.9	7°24.6
Catolagus	263°51.7	-52°42.8
Sirius	258°25.2	-16°45.3
Adhara	255°04.9	-29°00.7
Procyon	244°49.6	5°09.4
Pollux	215°19.7	27°57.7
Avior	234°13.8	-59°35.8
Suhail	222°45.2	-43°32.5
Miaplacidus	221°37.3	-69°49.6
Alphard	217°46.5	-8°46.5
Regulus	207°33.1	11°50.2
Dubhe	193°39.1	61°36.4
Denebola	182°23.7	14°25.4
Gienah	175°42.3	-17°41.4
Acrux	172°58.4	-63°14.6
Gacrux	171°50.1	-57°15.6
Alioth	166°11.6	55°48.8
Spica	158°21.1	-11°18.0
Alkaid	152°50.9	49°10.6
Hadar	148°34.8	60°29.8
Menkent	147°56.3	-36°29.8
Arcturus	145°46.8	19°02.5
Rigel Kent.	139°38.7	-60°56.5
Kochab	137°19.3	74°02.5
Zuben'ubi	136°54.8	-16°09.1
Alphecca	126°02.8	26°37.3
Antares	112°14.7	-26°29.4
Atria	107°08.1	-69°04.2
Sabik	102°10.7	-15°45.5
Shaula	96°09.2	-37°07.3
Rasalhague	95°57.7	12°32.2
Eltanin	90°41.9	51°28.7
Kaus Aust.	83°31.4	-34°22.3
Vega	80°32.8	38°48.2
Nunki	75°46.8	-26°15.8
Altair	61°59.3	8°56.1
Peacock	53°04.7	-56°39.0
Deneb	49°25.6	45°22.2
Enif	33°38.2	9°59.6
Al Na'ir	27°32.2	-46°50.1
Fomalhaut	15°13.8	-29°29.1
Scheat	13°44.6	28°13.4
Markab	13°29.3	15°20.7

Feb 27 Fri			Feb 28 Sat			Mar 01 Sun		
SHA	Dec	Mer.pass.	SHA	Dec	Mer.pass.	SHA	Dec	Mer.pass.
Venus	7°58.7	13						

Table with columns for planets: Aries, Venus, Mars, Jupiter, Saturn. Includes columns for Mon, GHA, Dec, and Mer. pass.

Table with columns for stars: Tue, GHA, Dec, Mer. pass. Lists various stars with their coordinates and magnitudes.

Table with columns for stars: Wed, GHA, Dec, Mer. pass. Lists various stars with their coordinates and magnitudes.

Table with columns for stars: Stars, SHA, Dec. Lists various stars with their coordinates and magnitudes.

Table with columns for stars: Stars, SHA, Dec. Lists various stars with their coordinates and magnitudes.

Table with columns for stars: Stars, SHA, Dec. Lists various stars with their coordinates and magnitudes.

Table with columns for Sun and Moon: h, Mon, GHA, Dec, GHA, ν, Dec, d, HP. Lists Sun and Moon coordinates and parameters.

Table with columns for Sun and Moon: Tue, GHA, Dec, GHA, ν, Dec, d, HP. Lists Sun and Moon coordinates and parameters.

Table with columns for Sun and Moon: Wed, GHA, Dec, GHA, ν, Dec, d, HP. Lists Sun and Moon coordinates and parameters.

Table with columns for twilight: Lat., Twilight (Naut., Civil, Sunrise, Sunset, Twilight (Civil, Naut.)). Lists twilight times for various latitudes.

Table with columns for moonrise/moonset: Lat., Moonrise (Mon, Tue, Wed), Moonset (Mon, Tue, Wed). Lists moonrise and moonset times for various latitudes.

Table with columns for day: Day, Sun (Eqn. of Time, Mer. Pass), Moon (Mer. Pass, Age). Lists Sun and Moon data for specific days.

Table with columns for planets: Aries, Venus, Mars, Jupiter, Saturn. Sub-columns for GHA, Dec, SHA, Dec. Includes Mer. pass. data.

Table with columns for planets: Fri, GHA, Dec, SHA, Dec. Includes Mer. pass. data.

Table with columns for planets: Sat, GHA, Dec, SHA, Dec. Includes Mer. pass. data.

Table with columns for stars: Stars, SHA, Dec. Lists various stars like Alpheratz, Ankaa, Schedar, etc.

Table with columns for stars: Stars, SHA, Dec. Lists various stars like Denebola, Gienah, Acrux, etc.

Table with columns for planets: Mar 05 Thu, Mar 06 Fri, Mar 07 Sat. Includes SHA, Mer. pass, and Horizontal parallax data.

Table with columns for Sun and Moon: Sun (GHA, Dec, SHA, Dec), Moon (GHA, Dec, SHA, Dec, HP). Includes SD values.

Table with columns for Sun and Moon: Sun (GHA, Dec, SHA, Dec), Moon (GHA, Dec, SHA, Dec, HP). Includes SD values.

Table with columns for Sun and Moon: Sun (GHA, Dec, SHA, Dec), Moon (GHA, Dec, SHA, Dec, HP). Includes SD values.

Table with columns for twilight and sunrise/sunset: Lat., Twilight (Naut., Civil, Sunr., Sunst., Twil.), Sunrise, Sunset, Twilight (Civil, Naut.).

Table with columns for moonrise and moonset: Lat., Moonrise (Thu, Fri, Sat), Moonset (Thu, Sat).

Table with columns for day, sun, and moon: Day, Sun (Eqn. of Time, Mer. Pass), Moon (Mer. Pass, Age).

Table with columns for Sun, Venus, Mars, Jupiter, Saturn and rows for GHA, Dec, and Mer. pass. Includes data for various celestial bodies and their positions.

Table with columns for Mon, GHA, Dec, and Mer. pass. Includes data for various celestial bodies and their positions.

Table with columns for Tue, GHA, Dec, and Mer. pass. Includes data for various celestial bodies and their positions.

Table with columns for Stars, SHA, Dec, and Mer. pass. Includes data for various stars and their positions.

Table with columns for Sun, GHA, Dec, and Mer. pass. Includes data for various celestial bodies and their positions.

Table with columns for Moon, GHA, Dec, and Mer. pass. Includes data for various celestial bodies and their positions.

Table with columns for Sun, GHA, Dec, and Mer. pass. Includes data for various celestial bodies and their positions.

Table with columns for Moon, GHA, Dec, and Mer. pass. Includes data for various celestial bodies and their positions.

Table with columns for Moon, GHA, Dec, and Mer. pass. Includes data for various celestial bodies and their positions.

Table with columns for Lat., Twilight, Sunrise, Sunset, and Twilight. Includes data for various celestial bodies and their positions.

Table with columns for Lat., Moonrise, Moonset, and Twilight. Includes data for various celestial bodies and their positions.

Table with columns for Day, Sun, Mer. Pass, Moon, and Age. Includes data for various celestial bodies and their positions.

Table with columns for planets: Aries, Venus, Mars, Jupiter, Saturn. Sub-columns for GHA, Dec, and magnitude. Includes Mer. pass. data at the bottom.

Table with columns for planets: Thu, GHA, Dec, GHA, Dec, GHA, Dec, GHA, Dec. Includes Mer. pass. data at the bottom.

Table with columns for planets: Fri, GHA, Dec, GHA, Dec, GHA, Dec, GHA, Dec. Includes Mer. pass. data at the bottom.

Table with columns for Stars: SHA, Dec. Lists various stars like Alpheratz, Ankaa, Schedar, etc.

Table with columns for Stars: GHA, Dec, GHA, Dec, GHA, Dec, GHA, Dec. Lists various stars like Denebola, Gienah, Acrux, etc.

Table with columns for Stars: SHA, Mer. pass., SHA, Mer. pass., SHA, Mer. pass., SHA, Mer. pass. Includes sections for Mar 11 Wed, Mar 12 Thu, Mar 13 Fri, and Horizontal parallax.

Table with columns for Sun and Moon: h, GHA, Dec, GHA, ν, Dec, d, HP. Includes SD and d values at the bottom.

Table with columns for Sun and Moon: Thu, GHA, Dec, GHA, ν, Dec, d, HP. Includes SD and d values at the bottom.

Table with columns for Sun and Moon: Fri, GHA, Dec, GHA, ν, Dec, d, HP. Includes SD and d values at the bottom.

Table with columns for Twilight: Lat., Twilight (Naut., Civil, Sunrise, Sunset, Twilight (Civil, Naut.)). Includes S 50° and S 60° data.

Table with columns for Moonrise and Moonset: Lat., Moonrise (Thu, Fri), Moonset (Thu, Fri). Includes N 72° and N 60° data.

Table with columns for Day: Day, Sun (Eqn. of Time, Mer. Pass), Moon (Mer. Pass, Upper/Lower), Age (22-24%).

Table with columns for planets: Aries, Venus, Mars, Jupiter, Saturn. Includes rows for each planet with GHA, Dec, and other astronomical data.

Table with columns for Sun, GHA, Dec, and other astronomical data for the Sun.

Table with columns for Moon, GHA, Dec, and other astronomical data for the Moon.

Table with columns for Stars, SHA, Dec, and other astronomical data for various stars.

Table with columns for Stars, GHA, Dec, and other astronomical data for various stars.

Table with columns for Mars, Venus, Jupiter, Saturn, and other astronomical data for these planets.

Table with columns for Sun, Moon, h, GHA, Dec, and other astronomical data for the Sun and Moon.

Table with columns for Sun, Moon, GHA, Dec, and other astronomical data for the Sun and Moon.

Table with columns for Moon, GHA, Dec, and other astronomical data for the Moon.

Table with columns for Twilight, Sunrise, Sunset, and other astronomical data for twilight and sunrise/sunset.

Table with columns for Moonrise, Moonset, and other astronomical data for moonrise and moonset.

Table with columns for Sun, Mer. Pass, Moon, and other astronomical data for sun and moon observations.

Aries			Venus			Mars			Jupiter			Saturn		
Tue	GHA	Dec	GHA	Dec	Mer.pass	GHA	Dec	Mer.pass	GHA	Dec	Mer.pass	GHA	Dec	Mer.pass
0	174°35.2	162°08.6	N04°15.9	191°22.8	S08°18.7	68°06.5	N22°56.2	170°22.1	S00°29.2					
1	180°37.6	177°08.2	17.2	206°23.4	17.9	83°08.9	56.2	185°24.3	29.1					
2	204°40.1	192°07.9	18.4	221°24.0	17.1	99°11.3	56.2	200°26.5	29.0					
3	219°42.6	207°07.5	19.7	236°24.7	16.4	113°13.7	56.2	215°28.6	28.9					
4	234°45.0	222°07.1	21.0	251°25.3	15.6	128°16.1	56.2	230°30.8	28.7					
5	249°47.5	237°06.8	22.3	266°25.9	14.9	143°18.5	56.2	245°33.0	28.6					
6	264°50.0	252°06.4	N04°23.5	281°26.6	S08°14.1	158°20.9	N22°56.1	260°35.2	S00°28.5					
7	279°52.4	267°06.0	24.8	296°27.2	13.4	173°23.4	56.1	275°37.3	28.4					
8	294°54.9	282°05.8	26.1	311°27.8	12.6	188°25.8	56.1	290°39.5	28.2					
9	309°57.3	297°05.3	27.4	326°28.4	11.9	203°28.2	56.1	305°41.7	28.1					
10	324°59.8	312°04.9	28.6	341°29.1	11.1	218°30.6	56.1	320°43.9	28.0					
11	340°02.3	327°04.5	29.9	356°29.7	10.4	233°33.0	56.1	335°46.1	27.9					
12	355°04.7	342°04.2	N04°31.2	11°30.3	S08°09.6	248°35.4	N22°56.1	350°48.2	S00°27.7					
13	10°07.2	357°03.8	32.5	26°31.0	08.9	263°37.8	56.1	5°50.4	27.6					
14	25°09.7	12°03.4	33.7	41°31.6	08.1	278°40.2	56.1	20°52.6	27.5					
15	40°12.1	27°03.0	35.0	56°32.2	07.3	293°42.6	56.1	35°54.8	27.4					
16	55°14.6	42°02.7	36.3	71°32.9	06.6	308°45.0	56.1	50°57.0	27.3					
17	70°17.1	57°02.3	37.5	86°33.5	05.8	323°47.4	56.1	65°59.1	27.1					
18	85°19.5	72°01.9	N04°38.8	101°34.1	S08°05.1	338°49.8	N22°56.1	81°01.3	S00°27.0					
19	100°22.0	87°01.6	40.1	116°34.7	04.3	353°52.3	56.1	96°03.5	26.9					
20	115°24.4	102°01.2	41.4	131°35.4	03.6	8°54.7	56.1	111°05.7	26.8					
21	130°26.9	117°00.8	42.6	146°36.0	02.8	23°57.1	56.1	126°07.9	26.6					
22	145°29.4	132°00.4	43.9	161°36.6	02.1	38°59.5	56.1	141°10.0	26.5					
23	160°31.8	147°00.1	45.2	176°37.3	01.3	54°01.9	56.1	156°12.2	26.4					
Mer.pass. 12:20 ν -0.4' d 1.3' m -3.92 ν 0.6' d -0.8' m 1.16 ν 2.4' d -0.0' m -2.32 ν 2.2' d -0.1' m 0.94														

Wed	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec
0	175°34.3	161°59.7	N04°46.4	191°37.9	S08°00.5	69°04.3	N22°56.1	171°14.4	S00°26.3	
1	190°36.8	176°59.3	47.7	206°38.5	07°59.8	84°06.7	56.1	186°16.6	26.1	
2	205°39.2	191°59.0	49.0	221°39.2	59.0	99°09.1	56.1	201°18.8	26.0	
3	220°41.7	206°58.6	50.3	236°39.8	58.3	114°11.5	56.1	216°20.9	25.9	
4	235°44.2	221°58.2	51.5	251°40.4	57.5	129°13.9	56.1	231°23.1	25.8	
5	250°46.6	236°57.8	52.8	266°41.1	56.8	144°16.3	56.1	246°25.3	25.7	
6	265°49.1	251°57.5	N04°54.1	281°41.7	S07°56.0	159°18.7	N22°56.1	261°27.5	S00°25.5	
7	280°51.6	266°57.1	55.3	296°42.3	55.2	174°21.1	56.1	276°29.6	25.4	
8	295°54.0	281°56.7	56.6	311°42.9	54.5	189°23.5	56.0	291°31.8	25.3	
9	310°56.5	296°56.4	57.9	326°43.6	53.7	204°25.9	56.0	306°34.0	25.2	
10	325°58.9	311°56.0	04°59.1	341°44.2	53.0	219°28.3	56.0	321°36.2	25.0	
11	341°01.4	326°55.6	05°00.4	356°44.8	52.2	234°30.7	56.0	336°38.4	24.9	
12	356°03.9	341°55.2	N05°01.7	11°45.5	S07°51.5	249°33.1	N22°56.0	351°40.5	S00°24.8	
13	11°06.3	356°54.9	02.9	26°46.1	50.7	264°35.5	56.0	6°42.7	24.7	
14	26°08.8	11°54.5	04.2	41°46.7	49.9	279°37.9	56.0	21°44.9	24.5	
15	41°11.3	26°54.1	05.5	56°47.4	49.2	294°40.3	56.0	36°47.1	24.4	
16	56°13.7	41°53.7	06.7	71°48.0	48.4	309°42.7	56.0	51°49.3	24.3	
17	71°16.2	56°53.4	08.0	86°48.6	47.7	324°45.1	56.0	66°51.4	24.2	
18	86°18.7	71°53.0	N05°09.3	101°49.3	S07°46.9	339°47.5	N22°56.0	81°53.6	S00°24.1	
19	101°21.1	86°52.6	10.5	116°49.9	46.2	354°49.9	56.0	96°55.8	23.9	
20	116°23.6	101°52.2	11.8	131°50.5	45.4	9°52.3	56.0	111°58.0	23.8	
21	131°26.0	116°51.9	13.1	146°51.2	44.6	24°54.7	56.0	127°00.1	23.7	
22	146°28.5	131°51.5	14.3	161°51.8	43.9	39°57.1	56.0	142°02.3	23.6	
23	161°31.0	146°51.1	15.6	176°52.4	43.1	54°59.5	56.0	157°04.5	23.4	
Mer.pass. 12:16 ν -0.4' d 1.3' m -3.92 ν 0.6' d -0.8' m 1.16 ν 2.4' d -0.0' m -2.31 ν 2.2' d -0.1' m 0.94										

Thu	GHA	Dec	GHA	Dec	GHA	Dec	GHA	Dec		
0	176°33.4	161°50.7	N05°16.9	191°53.1	S07°42.4	70°01.9	N22°56.0	172°06.7	S00°23.3	
1	191°35.9	176°50.4	18.1	206°53.7	41.6	85°04.3	56.0	187°08.9	23.2	
2	206°38.4	191°50.0	19.4	221°54.3	40.8	100°06.7	56.0	202°11.0	23.1	
3	221°40.8	206°49.6	20.7	236°55.0	40.1	115°09.7	56.0	217°13.2	22.9	
4	236°43.3	221°49.2	21.9	251°55.6	39.3	130°11.4	55.9	232°15.4	22.8	
5	251°45.8	236°48.9	23.2	266°56.2	38.6	145°13.8	55.9	247°17.6	22.7	
6	266°48.2	251°48.5	N05°24.5	281°56.9	S07°37.8	160°16.2	N22°55.9	262°19.8	S00°22.6	
7	281°50.7	266°48.1	25.7	296°57.5	37.1	175°18.6	55.9	277°21.9	22.4	
8	296°53.2	281°47.7	27.0	311°58.2	36.3	190°21.0	55.9	292°24.1	22.3	
9	311°55.6	296°47.4	28.3	326°58.8	35.3	205°23.4	55.9	307°26.3	22.2	
10	326°58.1	311°47.0	29.5	341°59.4	34.8	220°25.8	55.9	322°28.5	22.1	
11	342°00.5	326°46.6	30.8	357°00.1	34.0	235°28.2	55.9	337°30.6	22.0	
12	357°03.0	341°46.2	N05°32.1	12°00.7	S07°33.3	250°30.6	N22°55.9	352°32.8	S00°21.8	
13	12°05.5	356°45.9	33.3	27°01.3	32.5	265°33.0	55.9	7°35.0	21.7	
14	27°07.9	11°45.5	34.6	42°02.0	31.7	280°35.4	55.9	22°37.2	21.6	
15	42°10.4	26°45.1	35.9	57°02.6	31.0	295°37.8	55.9	37°39.4	21.5	
16	57°12.9	41°44.7	37.1	72°03.2	30.2	310°40.1	55.9	52°41.5	21.3	
17	72°15.3	56°44.3	38.4	87°03.9	29.5	325°42.5	55.9	67°43.7	21.2	
18	87°17.8	71°44.0	N05°39.6	102°04.5	S07°28.7	340°44.9	N22°55.9	82°45.9	S00°21.1	
19	102°20.3	86°43.6	40.9	117°05.1	27.9	355°47.3	55.9	97°48.1	21.0	
20	117°22.7	101°43.2	42.2	132°05.8	27.2	10°49.7	55.9	112°50.2	20.8	
21	132°25.2	116°42.8	43.4	147°06.4	26.4	25°52.1	55.9	127°52.4	20.7	
22	147°27.6	131°42.5	44.7	162°07.1	25.6	40°54.5	55.8	142°54.6	20.6	
23	162°30.1	146°42.1	45.9	177°07.7	24.9	55°56.9	55.8	157°56.8	20.5	
Mer.pass. 12:12 ν -0.4' d 1.3' m -3.92 ν 0.6' d -0.8' m 1.17 ν 2.4' d -0.0' m -2.30 ν 2.2' d -0.1' m 0.93										

Stars		
SHA	Dec	
Alpheratz	357°34.1	29°14.0
Ankaa	343°06.6	-42°09.9
Schedar	359°30.6	56°40.9
Diphda	348°46.6	-17°50.7
Achernar	335°19.9	-57°06.4
Hamal	327°50.4	23°35.2
Polaris	312°51.1	89°22.7
Acamar	315°11.3	-40°12.2
Menkar	314°05.3	49°11.5
Mirafak	308°27.1	49°57.4
Aldebaran	290°38.6	16°33.7
Rigel	281°03.0	-8°10.4
Capella	280°20.5	46°01.6
Bellatrix	278°21.8	6°22.3
Elath	278°00.6	28°37.8
Alnilam	276°36.7	-1°11.2
Betelgeuse	270°51.0	-7°24.6
Canopus	263°51.9	-52°42.8
Sirius	258°25.3	-16°45.3
Adhara	255°05.0	-29°00.7
Procyon	244°49.7	5°09.4
Pollux	243°15.9	27°57.8
Avior	234°14.0	-59°35.8
Suhail	222°45.3	-43°32.5
Miaplacidus	221°37.4	-69°49.7
Alphard	217°46.5	-8°46.5
Regulus	207°33.1	11°50.2
Dubhe	193°39.1	61°36.5
Denebola	182°23.6	14°25.4
Gienah	175°42.3	-17°41.4
Acrux	172°58.4	-63°14.7
Gacrux	171°50.0	-57°15.7
Alioth	166°11.5	55°48.8
Spicca	158°21.0	-13°00.0
Alkaid	152°50.8	49°10.7
Hadar	148°34.1	60°29.9
Menkent	147°56.1	-36°30.0
Arcturus	145°46.7	19°02.5
Rigel Kent.	139°58.5	-60°56.5
Kochab	137°19.0	74°02.5
Zubayr'ubi	136°54.7	-16°09.2
Alphecca	126°02.7	26°37.3
Antares	112°14.5	-26°29.4
Atria	107°07.8	-69°04.2
Sabik	102°01.6	-15°45.5
Shaula	96°09.0	-37°07.3
Rasalhague	95°57.6	12°32.2
Eltanin	90°41.7	51°28.7
Kaus Austral.	83°31.3	-34°22.3
Vega	80°32.6	38°48.1
Nunki	75°46.6	-26°15.8
Altair	61°59.2	8°56.1
Peacock	53°04.5	-56°38.9
Deneb	49°25.5	45°22.2
Enif	33°38.1	9°59.6
Al Na'ir	27°32.1	-46°50.0

Table with columns for planets (Aries, Venus, Mars, Jupiter, Saturn) and their positions (GHA, Dec) for Fri, Sat, Sun.

Table with columns for planets (Sat, GHA, Dec) and their positions (GHA, Dec) for Fri, Sat, Sun.

Table with columns for Sun (GHA, Dec) and their positions (GHA, Dec) for Fri, Sat, Sun.

Table with columns for Stars (SHA, Dec) and their positions (SHA, Dec) for Fri, Sat, Sun.

Table with columns for Stars (SHA, Dec) and their positions (SHA, Dec) for Fri, Sat, Sun.

Table with columns for Stars (SHA, Dec) and their positions (SHA, Dec) for Fri, Sat, Sun.

Table with columns for Sun and Moon (h, GHA, Dec, ν, d, HP) for Fri, Sat, Sun.

Table with columns for Sun and Moon (GHA, Dec, ν, Dec, d, HP) for Fri, Sat, Sun.

Table with columns for Sun and Moon (GHA, Dec, ν, Dec, d, HP) for Fri, Sat, Sun.

Table with columns for Twilight (Naut., Civil, Sunrise, Sunset, Twilight) for various latitudes.

Table with columns for Moonrise (Sat, Sun) and Moonset (Sat, Sun) for various latitudes.

Table with columns for Day, Sun (Eqn. of Time, Mer. Pass), and Moon (Mer. Pass, Lower, Age 1-3%).