

DUT1 = UT1-UTC = +0.0719 sec $\Delta T = TT-UT1 = +69.1121$ sec

2026 February 02 to Feb. 04 UT

h Moon (2 nd Feb)						Lunar Distance (objects with largest hourly LD delta)							
Mon	GHA	ν	Dec	d	HP	-Antares	-Arcturus	-Spica	-Regulus	+Pollux	+Jupiter	+Capella	+Aldebaran
0	354°55.1	8.9'	N18°41.6	-13.1'	58.9'	116°03.9	72°07.1	70°10.6	16°08.5	20°58.8	26°57.3	54°20.9	64°22.1
1	9°23.0	9.0'	18°28.5	-13.2'	58.9'	115°28.6	71°38.7	69°35.2	15°33.2	21°33.7	27°32.5	54°53.7	64°56.7
2	23°51.0	9.1'	18°15.3	-13.3'	58.9'	114°53.3	71°10.3	69°00.0	14°57.9	22°08.7	28°07.8	55°26.4	65°31.2
3	38°19.1	9.2'	18°02.0	-13.4'	58.8'	114°18.1	70°42.1	68°24.7	14°22.7	22°43.6	28°42.9	55°59.2	66°05.8
4	52°47.3	9.3'	17°48.5	-13.5'	58.8'	113°42.8	70°13.8	67°49.5	13°47.5	23°18.5	29°18.1	56°32.0	66°40.3
5	67°15.6	9.5'	17°35.1	-13.6'	58.8'	113°07.7	69°45.7	67°14.3	13°12.3	23°53.4	29°53.3	57°04.7	67°14.7
6	81°44.1	9.6'	N17°21.5	-13.7'	58.8'	112°32.5	69°17.6	66°39.2	12°37.1	24°28.3	30°28.4	57°37.5	67°49.2
7	96°12.6	9.7'	17°07.8	-13.7'	58.7'	111°57.4	68°49.6	66°04.1	12°02.0	25°03.2	31°03.5	58°10.3	68°23.6
8	110°41.3	9.8'	16°54.1	-13.8'	58.7'	111°22.2	68°21.7	65°29.0	11°26.9	25°38.1	31°38.6	58°43.1	68°58.0
9	125°10.1	9.9'	16°40.2	-13.9'	58.7'	110°47.2	67°53.9	64°53.9	10°51.8	26°12.9	32°13.7	59°15.8	69°32.4
10	139°39.0	10.0'	16°26.3	-14.0'	58.7'	110°12.1	67°26.1	64°18.9	10°16.8	26°47.7	32°48.7	59°48.6	70°06.7
11	154°08.1	10.1'	16°12.3	-14.1'	58.6'	109°37.1	66°58.5	63°43.9	9°41.8	27°22.5	33°23.7	60°21.4	70°41.1
12	168°37.2	10.2'	N15°58.3	-14.1'	58.6'	109°02.2	66°30.9	63°08.9	9°06.9	27°57.2	33°58.7	60°54.1	71°15.4
13	183°06.4	10.4'	15°44.2	-14.2'	58.6'	108°27.2	66°03.4	62°34.0	8°32.0	28°32.0	34°33.7	61°26.9	71°49.6
14	197°35.8	10.5'	15°30.0	-14.3'	58.6'	107°52.3	65°35.9	61°59.1	7°57.1	29°06.7	35°08.7	61°59.6	72°23.9
15	212°05.2	10.6'	15°15.7	-14.3'	58.5'	107°17.4	65°08.6	61°24.3	7°22.2	29°41.4	35°43.6	62°32.4	72°58.1
16	226°34.8	10.7'	15°01.4	-14.4'	58.5'	106°42.6	64°41.4	60°49.5	6°47.4	30°16.0	36°18.5	63°05.1	73°32.3
17	241°04.5	10.8'	14°47.0	-14.5'	58.5'	106°07.8	64°14.2	60°14.7	6°12.7	30°50.6	36°53.3	63°37.8	74°06.4
18	255°34.3	10.9'	N14°32.5	-14.5'	58.4'	105°33.0	63°47.2	59°39.9	5°38.0	31°25.2	37°28.1	64°10.5	74°40.5
19	270°04.1	11.0'	14°18.0	-14.6'	58.4'	104°58.3	63°20.2	59°05.2	5°03.3	31°59.8	38°02.9	64°43.2	75°14.6
20	284°34.1	11.1'	14°03.4	-14.6'	58.4'	104°23.6	62°53.3	58°30.5	4°28.7	32°34.3	38°37.7	65°15.9	75°48.7
21	299°04.2	11.2'	13°48.8	-14.7'	58.4'	103°48.9	62°26.6	57°55.9	3°54.1	33°08.9	39°12.5	65°48.5	76°22.7
22	313°34.4	11.3'	13°34.1	-14.7'	58.3'	103°14.3	61°59.9	57°21.3	3°19.7	33°43.3	39°47.2	66°21.2	76°56.7
23	328°04.7	11.4'	13°19.3	-14.8'	58.3'	102°39.7	61°33.3	56°46.7	2°45.3	34°17.8	40°21.8	66°53.8	77°30.7
2 nd	SD = 16.1' Mer. pass. 00:21												

h Moon (3 rd Feb)						Lunar Distance (objects with largest hourly LD delta)							
Tue	GHA	ν	Dec	d	HP	-Antares	-Rigel Kent.	-Spica	±Regulus	+Pollux	+Jupiter	+Capella	+Aldebaran
0	342°35.1	11.5'	N13°04.5	-14.8'	58.3'	102°05.2	91°56.8	56°12.2	2°11.1	34°52.2	40°56.5	67°26.4	78°04.6
1	357°05.6	11.6'	12°49.7	-14.9'	58.2'	101°30.7	91°29.4	55°37.7	1°37.1	35°26.6	41°31.1	67°59.0	78°38.5
2	11°36.1	11.7'	12°34.8	-14.9'	58.2'	100°56.2	91°02.0	55°03.2	1°03.8	36°00.9	42°05.7	68°31.5	79°12.3
3	26°06.8	11.8'	12°19.9	-15.0'	58.2'	100°21.7	90°34.6	54°28.8		36°35.2	42°40.2	69°04.1	79°46.2
4	40°37.6	11.9'	12°04.9	-15.0'	58.1'	99°47.3	90°07.3	53°54.4		37°09.5	43°14.7	69°36.6	80°20.0
5	55°08.5	12.0'	11°49.8	-15.1'	58.1'	99°13.0	89°40.0	53°20.0		37°43.8	43°49.2	70°09.1	80°53.7
6	69°39.4	12.1'	N11°34.8	-15.1'	58.1'	98°38.6	89°12.8	52°45.7		38°18.0	44°23.7	70°41.6	81°27.4
7	84°10.5	12.1'	11°19.7	-15.2'	58.1'	98°04.3	88°45.5	52°11.5		38°52.2	44°58.1	71°14.1	82°01.1
8	98°41.6	12.2'	11°04.5	-15.2'	58.0'	97°30.1	88°18.3	51°37.2	2°27.0	39°26.3	45°32.4	71°46.5	82°34.8
9	113°12.8	12.3'	10°49.3	-15.2'	58.0'	96°55.9	87°51.2	51°03.0	3°01.0	40°00.4	46°06.8	72°18.9	83°08.4
10	127°44.2	12.4'	10°34.1	-15.3'	58.0'	96°21.7	87°24.0	50°28.9	3°35.0	40°34.5	46°41.1	72°51.3	83°42.0
11	142°15.6	12.5'	10°18.8	-15.3'	57.9'	95°47.5	86°56.9	49°54.7	4°09.0	41°08.5	47°15.4	73°23.7	84°15.5
12	156°47.1	12.6'	N10°03.5	-15.3'	57.9'	95°13.4	86°29.9	49°20.7	4°43.0	41°42.5	47°49.6	73°56.0	84°49.0
13	171°18.6	12.7'	09°48.2	-15.3'	57.9'	94°39.4	86°02.9	48°46.6	5°17.0	42°16.5	48°23.8	74°28.3	85°22.5
14	185°50.3	12.7'	09°32.9	-15.4'	57.8'	94°05.3	85°35.9	48°12.6	5°51.0	42°50.4	48°57.9	75°00.6	85°55.9
15	200°22.0	12.8'	09°17.5	-15.4'	57.8'	93°31.4	85°09.0	47°38.7	6°24.9	43°24.3	49°32.1	75°32.8	86°29.3
16	214°53.9	12.9'	09°02.1	-15.4'	57.8'	92°57.4	84°42.1	47°04.7	6°58.8	43°58.2	50°06.1	76°05.1	87°02.7
17	229°25.8	13.0'	08°46.7	-15.5'	57.7'	92°23.5	84°15.2	46°30.9	7°32.7	44°32.0	50°40.2	76°37.3	87°36.0
18	243°57.7	13.1'	N08°31.2	-15.5'	57.7'	91°49.6	83°48.4	45°57.0	8°06.5	45°05.8	51°14.2	77°09.4	88°09.3
19	258°29.8	13.1'	08°15.7	-15.5'	57.7'	91°15.8	83°21.6	45°23.2	8°40.3	45°39.5	51°48.2	77°41.6	88°42.5
20	273°01.9	13.2'	08°00.3	-15.5'	57.6'	90°42.0	82°54.9	44°49.4	9°14.1	46°13.2	52°22.1	78°13.7	89°15.7
21	287°34.1	13.3'	07°44.7	-15.5'	57.6'	90°08.3	82°28.2	44°15.7	9°47.8	46°46.9	52°56.0	78°45.7	89°48.9
22	302°06.4	13.3'	07°29.2	-15.5'	57.6'	89°34.6	82°01.6	43°42.0	10°21.5	47°20.5	53°29.9	79°17.8	90°22.0
23	316°38.7	13.4'	07°13.7	-15.6'	57.6'	89°00.9	81°35.0	43°08.4	10°55.2	47°54.1	54°03.7	79°49.8	90°55.1
3 rd	SD = 15.9' Mer. pass. 01:12												

h	Moon (4 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Wed	GHA	ν	Dec	d	HP	-Antares	-Rigel Kent.	-Hadar	-Spica	+Regulus	+Pollux	+Jupiter	+Aldebaran
0	331° 11.2	13.5'	N06° 58.1	-15.6'	57.5'	88° 27.3	81° 08.5	77° 21.9	42° 34.8	11° 28.8	48° 27.7	54° 37.5	91° 28.2
1	345° 43.6	13.6'	06° 42.5	-15.6'	57.5'	87° 53.7	80° 42.0	76° 56.2	42° 01.2	12° 02.3	49° 01.2	55° 11.2	92° 01.2
2	0° 16.2	13.6'	06° 27.0	-15.6'	57.5'	87° 20.1	80° 15.6	76° 30.7	41° 27.7	12° 35.9	49° 34.6	55° 44.9	92° 34.1
3	14° 48.8	13.7'	06° 11.4	-15.6'	57.4'	86° 46.6	79° 49.2	76° 05.1	40° 54.3	13° 09.4	50° 08.1	56° 18.6	93° 07.0
4	29° 21.5	13.8'	05° 55.8	-15.6'	57.4'	86° 13.2	79° 22.9	75° 39.7	40° 20.8	13° 42.8	50° 41.5	56° 52.2	93° 39.9
5	43° 54.3	13.8'	05° 40.1	-15.6'	57.4'	85° 39.7	78° 56.7	75° 14.3	39° 47.4	14° 16.3	51° 14.8	57° 25.8	94° 12.8
6	58° 27.1	13.9'	N05° 24.5	-15.6'	57.3'	85° 06.3	78° 30.5	74° 49.0	39° 14.1	14° 49.6	51° 48.2	57° 59.3	94° 45.6
7	72° 59.9	13.9'	05° 08.9	-15.6'	57.3'	84° 33.0	78° 04.3	74° 23.8	38° 40.7	15° 23.0	52° 21.4	58° 32.8	95° 18.3
8	87° 32.9	14.0'	04° 53.3	-15.6'	57.3'	83° 59.7	77° 38.2	73° 58.6	38° 07.5	15° 56.3	52° 54.7	59° 06.3	95° 51.1
9	102° 05.9	14.1'	04° 37.6	-15.6'	57.2'	83° 26.4	77° 12.2	73° 33.5	37° 34.2	16° 29.5	53° 27.9	59° 39.7	96° 23.8
10	116° 38.9	14.1'	04° 22.0	-15.6'	57.2'	82° 53.2	76° 46.2	73° 08.5	37° 01.1	17° 02.8	54° 01.0	60° 13.1	96° 56.4
11	131° 12.0	14.2'	04° 06.4	-15.6'	57.2'	82° 20.0	76° 20.3	72° 43.5	36° 27.9	17° 35.9	54° 34.2	60° 46.5	97° 29.0
12	145° 45.2	14.2'	N03° 50.8	-15.6'	57.1'	81° 46.9	75° 54.4	72° 18.6	35° 54.8	18° 09.1	55° 07.2	61° 19.8	98° 01.6
13	160° 18.4	14.3'	03° 35.1	-15.6'	57.1'	81° 13.8	75° 28.7	71° 53.8	35° 21.7	18° 42.2	55° 40.3	61° 53.1	98° 34.1
14	174° 51.7	14.3'	03° 19.5	-15.6'	57.1'	80° 40.7	75° 02.9	71° 29.1	34° 48.7	19° 15.3	56° 13.3	62° 26.3	99° 06.6
15	189° 25.0	14.4'	03° 03.9	-15.6'	57.0'	80° 07.7	74° 37.3	71° 04.4	34° 15.7	19° 48.3	56° 46.2	62° 59.5	99° 39.0
16	203° 58.4	14.4'	02° 48.3	-15.6'	57.0'	79° 34.7	74° 11.7	70° 39.9	33° 42.8	20° 21.3	57° 19.2	63° 32.6	100° 11.4
17	218° 31.8	14.5'	02° 32.7	-15.6'	57.0'	79° 01.8	73° 46.2	70° 15.4	33° 09.9	20° 54.2	57° 52.0	64° 05.8	100° 43.7
18	233° 05.3	14.5'	N02° 17.1	-15.6'	56.9'	78° 28.8	73° 20.7	69° 50.9	32° 37.0	21° 27.1	58° 24.9	64° 38.8	101° 16.0
19	247° 38.8	14.6'	02° 01.5	-15.6'	56.9'	77° 56.0	72° 55.3	69° 26.6	32° 04.2	21° 59.9	58° 57.7	65° 11.9	101° 48.3
20	262° 12.3	14.6'	01° 45.9	-15.6'	56.9'	77° 23.2	72° 30.0	69° 02.4	31° 31.4	22° 32.8	59° 30.5	65° 44.9	102° 20.5
21	276° 45.9	14.6'	01° 30.3	-15.6'	56.8'	76° 50.4	72° 04.8	68° 38.2	30° 58.7	23° 05.6	60° 03.2	66° 17.8	102° 52.7
22	291° 19.6	14.7'	01° 14.8	-15.5'	56.8'	76° 17.6	71° 39.6	68° 14.1	30° 26.0	23° 38.3	60° 35.9	66° 50.7	103° 24.9
23	305° 53.3	14.7'	00° 59.2	-15.5'	56.8'	75° 44.9	71° 14.5	67° 50.1	29° 53.4	24° 11.0	61° 08.5	67° 23.6	103° 57.0
4 th	SD = 15.7' Mer. pass. 01:59												

h	Moon (5 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Thu	GHA	ν	Dec	d	HP	-Altair	-Antares	-Rigil Kent.	-Spica	+Regulus	+Pollux	+Jupiter	+Aldebaran
0	320°27.0	14.8'	N00°43.7	-15.5'	56.7'		75°12.3	70°49.5	29°20.8	24°43.6	61°41.1	67°56.4	104°29.0
1	335°00.7	14.8'	00°28.2	-15.5'	56.7'		74°39.7	70°24.5	28°48.2	25°16.3	62°13.7	68°29.2	105°01.0
2	349°34.5	14.8'	N00°12.7	-15.5'	56.7'		74°07.1	69°59.6	28°15.7	25°48.8	62°46.2	69°02.0	105°33.0
3	4°08.4	14.9'	S00°02.8	-15.5'	56.6'		73°34.6	69°34.8	27°43.2	26°21.4	63°18.7	69°34.7	106°04.9
4	18°42.3	14.9'	00°18.2	-15.4'	56.6'		73°02.1	69°10.1	27°10.8	26°53.9	63°51.2	70°07.4	106°36.8
5	33°16.2	14.9'	00°33.7	-15.4'	56.6'		72°29.6	68°45.5	26°38.4	27°26.3	64°23.6	70°40.0	107°08.7
6	47°50.1	15.0'	S00°49.1	-15.4'	56.5'		71°57.2	68°20.9	26°06.0	27°58.8	64°55.9	71°12.6	107°40.5
7	62°24.1	15.0'	01°04.5	-15.4'	56.5'	119°45.0	71°24.8	67°56.4	25°33.7	28°31.1	65°28.3	71°45.2	108°12.2
8	76°58.1	15.0'	01°19.8	-15.3'	56.5'	119°19.5	70°52.4	67°32.0	25°01.4	29°03.5	66°00.6	72°17.7	108°43.9
9	91°32.1	15.1'	01°35.2	-15.3'	56.4'	118°54.0	70°20.1	67°07.7	24°29.2	29°35.8	66°32.8	72°50.2	109°15.6
10	106°06.1	15.1'	01°50.5	-15.3'	56.4'	118°28.4	69°47.9	66°43.5	23°57.0	30°08.1	67°05.0	73°22.6	109°47.3
11	120°40.2	15.1'	02°05.8	-15.3'	56.4'	118°02.8	69°15.7	66°19.4	23°24.9	30°40.3	67°37.2	73°55.0	110°18.8
12	135°14.3	15.1'	S02°21.1	-15.2'	56.4'	117°37.2	68°43.5	65°55.3	22°52.8	31°12.5	68°09.4	74°27.4	110°50.4
13	149°48.5	15.2'	02°36.3	-15.2'	56.3'	117°11.5	68°11.3	65°31.3	22°20.7	31°44.6	68°41.5	74°59.7	111°21.9
14	164°22.6	15.2'	02°51.5	-15.2'	56.3'	116°45.9	67°39.2	65°07.5	21°48.7	32°16.7	69°13.5	75°32.0	111°53.4
15	178°56.8	15.2'	03°06.7	-15.2'	56.3'	116°20.2	67°07.1	64°43.7	21°16.7	32°48.8	69°45.5	76°04.2	112°24.8
16	193°31.0	15.2'	03°21.9	-15.1'	56.2'	115°54.4	66°35.1	64°20.0	20°44.8	33°20.8	70°17.5	76°36.5	112°56.2
17	208°05.2	15.2'	03°37.0	-15.1'	56.2'	115°28.7	66°03.1	63°56.4	20°12.9	33°52.8	70°49.5	77°08.6	113°27.5
18	222°39.4	15.2'	S03°52.1	-15.1'	56.2'	115°02.9	65°31.2	63°32.9	19°41.1	34°24.8	71°21.4	77°40.8	113°58.8
19	237°13.7	15.3'	04°07.1	-15.0'	56.1'	114°37.2	64°59.2	63°09.5	19°09.3	34°56.7	71°53.3	78°12.9	114°30.0
20	251°47.9	15.3'	04°22.1	-15.0'	56.1'	114°11.4	64°27.4	62°46.1	18°37.5	35°28.6	72°25.1	78°44.9	115°01.2
21	266°22.2	15.3'	04°37.1	-14.9'	56.1'	113°45.6	63°55.5	62°22.9	18°05.8	36°00.4	72°56.9	79°17.0	115°32.4
22	280°56.5	15.3'	04°52.1	-14.9'	56.0'	113°19.7	63°23.7	61°59.8	17°34.2	36°32.2	73°28.7	79°48.9	116°03.5
23	295°30.8	15.3'	05°07.0	-14.9'	56.0'	112°53.9	62°51.9	61°36.8	17°02.5	37°04.0	74°00.4	80°20.9	116°34.6
5 th	SD = 15.5' Mer. pass. 02:43												

h	Moon (6 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Fri	GHA	ν	Dec	d	HP	-Sun	-Altair	-Antares	-Spica	+Regulus	+Pollux	+Jupiter	+Aldebaran
0	310°05.1	15.3'	S05°21.9	-14.8'	56.0'		112°28.1	62°20.2	16°31.0	37°35.7	74°32.1	80°52.8	117°05.7
1	324°39.4	15.3'	05°36.7	-14.8'	56.0'		112°02.2	61°48.5	15°59.4	38°07.4	75°03.7	81°24.7	117°36.7
2	339°13.8	15.3'	05°51.5	-14.8'	55.9'		111°36.3	61°16.9	15°28.0	38°39.1	75°35.4	81°56.5	118°07.6
3	353°48.1	15.3'	06°06.3	-14.7'	55.9'		111°10.4	60°45.2	14°56.5	39°10.7	76°06.9	82°28.3	118°38.5
4	8°22.5	15.4'	06°21.0	-14.7'	55.9'		110°44.6	60°13.7	14°25.1	39°42.3	76°38.5	83°00.1	119°09.4
5	22°56.8	15.4'	06°35.7	-14.6'	55.8'		110°18.7	59°42.1	13°53.8	40°13.9	77°10.0	83°31.8	119°40.2
6	37°31.2	15.4'	S06°50.3	-14.6'	55.8'		109°52.8	59°10.6	13°22.5	40°45.4	77°41.5	84°03.5	
7	52°05.5	15.4'	07°04.9	-14.5'	55.8'		109°26.9	58°39.1	12°51.3	41°16.9	78°12.9	84°35.2	
8	66°39.9	15.4'	07°19.4	-14.5'	55.7'		109°01.0	58°07.7	12°20.2	41°48.3	78°44.3	85°06.8	
9	81°14.2	15.4'	07°33.9	-14.5'	55.7'		108°35.1	57°36.3	11°49.0	42°19.7	79°15.7	85°38.4	
10	95°48.6	15.4'	07°48.4	-14.4'	55.7'		108°09.2	57°04.9	11°18.0	42°51.1	79°47.0	86°10.0	
11	110°23.0	15.4'	08°02.8	-14.4'	55.7'		107°43.2	56°33.5	10°47.0	43°22.4	80°18.3	86°41.5	
12	124°57.3	15.4'	S08°17.1	-14.3'	55.6'		107°17.3	56°02.2	10°16.1	43°53.7	80°49.6	87°13.0	
13	139°31.7	15.3'	08°31.4	-14.3'	55.6'		106°51.4	55°31.0	9°45.3	44°25.0	81°20.8	87°44.4	
14	154°06.0	15.3'	08°45.7	-14.2'	55.6'		106°25.5	54°59.7	9°14.5	44°56.3	81°52.0	88°15.8	
15	168°40.4	15.3'	08°59.9	-14.2'	55.6'		105°59.6	54°28.5	8°43.9	45°27.5	82°23.2	88°47.2	
16	183°14.7	15.3'	09°14.1	-14.1'	55.5'		105°33.7	53°57.3	8°13.3	45°58.6	82°54.3	89°18.6	
17	197°49.0	15.3'	09°28.2	-14.1'	55.5'		105°07.8	53°26.2	7°42.9	46°29.8	83°25.4	89°49.9	
18	212°23.4	15.3'	S09°42.2	-14.0'	55.5'		104°41.9	52°55.1	7°12.5	47°00.9	83°56.5	90°21.2	
19	226°57.7	15.3'	09°56.3	-14.0'	55.4'		104°16.0	52°24.0	6°42.4	47°32.0	84°27.5	90°52.4	
20	241°32.0	15.3'	10°10.2	-13.9'	55.4'	119°51.5	103°50.1	51°53.0	6°12.4	48°03.0	84°58.5	91°23.7	
21	256°06.2	15.3'	10°24.1	-13.8'	55.4'	119°23.0	103°24.2	51°22.0	5°42.6	48°34.0	85°29.5	91°54.8	
22	270°40.5	15.3'	10°37.9	-13.8'	55.4'	118°54.6	102°58.3	50°51.0	5°13.1	49°05.0	86°00.4	92°26.0	
23	285°14.8	15.2'	10°51.7	-13.7'	55.3'	118°26.2	102°32.5	50°20.0	4°44.0	49°35.9	86°31.4	92°57.1	
6 th	SD = 15.3' Mer. pass. 03:26					Sun SD = 16.2'							

h	Moon (7 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Sat	GHA	ν	Dec	d	HP	-Sun	-Altair	-Antares	±Spica	+Regulus	+Procyon	+Pollux	+Jupiter
0	299°49.0	15.2'	S11°05.5	-13.7'	55.3'	117°57.8	102°06.6	49°49.1	4°15.3	50°06.9	83°19.1	87°02.2	93°28.2
1	314°23.2	15.2'	11°19.1	-13.6'	55.3'	117°29.5	101°40.8	49°18.3	3°47.2	50°37.7	83°48.2	87°33.1	93°59.3
2	328°57.5	15.2'	11°32.7	-13.6'	55.3'	117°01.2	101°14.9	48°47.4	3°19.9	51°08.6	84°17.2	88°03.9	94°30.3
3	343°31.6	15.2'	11°46.3	-13.5'	55.2'	116°32.9	100°49.1	48°16.6		51°39.4	84°46.3	88°34.7	95°01.3
4	358°05.8	15.2'	11°59.8	-13.4'	55.2'	116°04.6	100°23.2	47°45.8		52°10.2	85°15.3	89°05.5	95°32.3
5	12°40.0	15.1'	12°13.2	-13.4'	55.2'	115°36.4	99°57.4	47°15.0		52°41.0	85°44.3	89°36.2	96°03.2
6	27°14.1	15.1'	S12°26.6	-13.3'	55.2'	115°08.2	99°31.6	46°44.3		53°11.7	86°13.2	90°06.9	96°34.1
7	41°48.2	15.1'	12°39.9	-13.3'	55.1'	114°40.1	99°05.8	46°13.6		53°42.4	86°42.1	90°37.6	97°05.0
8	56°22.3	15.1'	12°53.2	-13.2'	55.1'	114°11.9	98°40.0	45°42.9		54°13.1	87°11.0	91°08.2	97°35.9
9	70°56.4	15.0'	13°06.4	-13.1'	55.1'	113°43.8	98°14.3	45°12.2		54°43.8	87°39.9	91°38.8	98°06.7
10	85°30.4	15.0'	13°19.5	-13.1'	55.1'	113°15.7	97°48.5	44°41.6		55°14.4	88°08.8	92°09.4	98°37.5
11	100°04.4	15.0'	13°32.5	-13.0'	55.1'	112°47.7	97°22.7	44°11.0		55°45.0	88°37.6	92°40.0	99°08.3
12	114°38.4	15.0'	S13°45.5	-12.9'	55.0'	112°19.7	96°57.0	43°40.5		56°15.6	89°06.4	93°10.5	99°39.0
13	129°12.4	14.9'	13°58.5	-12.9'	55.0'	111°51.7	96°31.3	43°09.9		56°46.1	89°35.2	93°41.0	100°09.7
14	143°46.3	14.9'	14°11.3	-12.8'	55.0'	111°23.7	96°05.6	42°39.4		57°16.6	90°04.0	94°11.5	100°40.4
15	158°20.2	14.9'	14°24.1	-12.7'	55.0'	110°55.7	95°39.9	42°08.9	4°06.6	57°47.1	90°32.7	94°41.9	101°11.1
16	172°54.1	14.8'	14°36.8	-12.7'	54.9'	110°27.8	95°14.2	41°38.5	4°34.7	58°17.6	91°01.4	95°12.3	101°41.7
17	187°27.9	14.8'	14°49.5	-12.6'	54.9'	109°59.9	94°48.5	41°08.0	5°03.2	58°48.0	91°30.1	95°42.7	102°12.3
18	202°01.7	14.8'	S15°02.1	-12.5'	54.9'	109°32.0	94°22.9	40°37.6	5°32.1	59°18.4	91°58.7	96°13.1	102°42.9
19	216°35.5	14.7'	15°14.6	-12.4'	54.9'	109°04.2	93°57.2	40°07.2	6°01.2	59°48.8	92°27.4	96°43.5	103°13.5
20	231°09.3	14.7'	15°27.1	-12.4'	54.9'	108°36.4	93°31.6	39°36.9	6°30.4	60°19.2	92°56.0	97°13.8	103°44.0
21	245°43.0	14.7'	15°39.4	-12.3'	54.8'	108°08.6	93°06.0	39°06.5	6°59.8	60°49.5	93°24.5	97°44.1	104°14.5
22	260°16.6	14.6'	15°51.7	-12.2'	54.8'	107°40.8	92°40.4	38°36.2	7°29.3	61°19.8	93°53.1	98°14.4	104°45.0
23	274°50.3	14.6'	16°04.0	-12.2'	54.8'	107°13.1	92°14.8	38°06.0	7°58.9	61°50.1	94°21.6	98°44.6	105°15.4
7 th	SD = 15.1' Mer. pass. 04:08					Sun SD = 16.2'							

DUT1 = UT1-UTC = +0.0683 sec $\Delta T = TT-UT1 = +69.1157$ sec

2026 February 08 to Feb. 10 UT

h	Moon (8 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Sun	GHA	ν	Dec	d	HP	-Sun	-Altair	-Rigel Kent.	-Antares	+Spica	+Regulus	+Pollux	+Jupiter
0	289°23.9	14.6'	S16°16.1	-12.1'	54.8'	106°45.3	91°49.3	45°26.8	37°35.7	8°28.5	62°20.4	99°14.8	105°45.9
1	303°57.5	14.5'	16°28.2	-12.0'	54.8'	106°17.6	91°23.7	45°11.1	37°05.5	8°58.2	62°50.6	99°45.0	106°16.3
2	318°31.0	14.5'	16°40.2	-11.9'	54.7'	105°49.9	90°58.2	44°55.6	36°35.2	9°27.9	63°20.9	100°15.2	106°46.7
3	333°04.5	14.4'	16°52.1	-11.9'	54.7'	105°22.3	90°32.7	44°40.3	36°05.0	9°57.7	63°51.1	100°45.4	107°17.0
4	347°37.9	14.4'	17°04.0	-11.8'	54.7'	104°54.6	90°07.2	44°25.2	35°34.9	10°27.5	64°21.2	101°15.5	107°47.4
5	2°11.3	14.4'	17°15.8	-11.7'	54.7'	104°27.0	89°41.7		35°04.7	10°57.2	64°51.4	101°45.6	108°17.7
6	16°44.7	14.3'	S17°27.5	-11.6'	54.7'	103°59.4	89°16.3		34°34.6	11°27.0	65°21.5	102°15.7	108°48.0
7	31°18.0	14.3'	17°39.1	-11.5'	54.6'	103°31.8	88°50.9		34°04.5	11°56.8	65°51.7	102°45.8	109°18.3
8	45°51.3	14.2'	17°50.6	-11.5'	54.6'	103°04.3	88°25.4		33°34.4	12°26.7	66°21.7	103°15.9	109°48.5
9	60°24.5	14.2'	18°02.1	-11.4'	54.6'	102°36.8	88°00.0		33°04.3	12°56.5	66°51.8	103°45.9	110°18.8
10	74°57.7	14.1'	18°13.5	-11.3'	54.6'	102°09.2	87°34.7		32°34.3	13°26.3	67°21.9	104°15.9	110°49.0
11	89°30.9	14.1'	18°24.8	-11.2'	54.6'	101°41.7	87°09.3		32°04.3	13°56.1	67°51.9	104°45.9	111°19.2
12	104°04.0	14.1'	S18°36.0	-11.1'	54.6'	101°14.3	86°44.0		31°34.2	14°25.9	68°21.9	105°15.9	111°49.3
13	118°37.0	14.0'	18°47.1	-11.1'	54.5'	100°46.8	86°18.7		31°04.3	14°55.7	68°51.9	105°45.8	112°19.5
14	133°10.1	14.0'	18°58.2	-11.0'	54.5'	100°19.4	85°53.4		30°34.3	15°25.5	69°21.9	106°15.8	112°49.6
15	147°43.0	13.9'	19°09.1	-10.9'	54.5'	99°51.9	85°28.1		30°04.3	15°55.3	69°51.9	106°45.7	113°19.7
16	162°15.9	13.9'	19°20.0	-10.8'	54.5'	99°24.5	85°02.8		29°34.4	16°25.0	70°21.8	107°15.6	113°49.8
17	176°48.8	13.8'	19°30.8	-10.7'	54.5'	98°57.1	84°37.6		29°04.5	16°54.8	70°51.7	107°45.5	114°19.9
18	191°21.6	13.8'	S19°41.5	-10.6'	54.5'	98°29.8	84°12.4		28°34.6	17°24.6	71°21.6	108°15.3	114°50.0
19	205°54.4	13.7'	19°52.2	-10.5'	54.5'	98°02.4	83°47.2		28°04.7	17°54.3	71°51.5	108°45.2	115°20.0
20	220°27.1	13.7'	20°02.7	-10.4'	54.4'	97°35.1	83°22.0		27°34.8	18°24.1	72°21.4	109°15.0	115°50.0
21	234°59.8	13.6'	20°13.1	-10.4'	54.4'	97°07.7	82°56.9		27°05.0	18°53.8	72°51.3	109°44.8	116°20.1
22	249°32.4	13.6'	20°23.5	-10.3'	54.4'	96°40.4	82°31.8		26°35.1	19°23.5	73°21.1	110°14.6	116°50.1
23	264°05.0	13.5'	20°33.8	-10.2'	54.4'	96°13.1	82°06.7		26°05.3	19°53.3	73°50.9	110°44.4	117°20.0
8 th	SD = 14.9' Mer. pass. 04:51					Sun SD = 16.2'							

h	Moon (9 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Mon	GHA	ν	Dec	d	HP	-Sun	-Altair	-Antares	+Spica	+Regulus	+Procyon	+Pollux	+Jupiter
0	278°37.5	13.5'	S20°43.9	-10.1'	54.4'	95°45.9	81°41.6	25°35.5	20°23.0	74°20.8	106°07.3	111°14.2	117°50.0
1	293°09.9	13.4'	20°54.0	-10.0'	54.4'	95°18.6	81°16.5	25°05.7	20°52.7	74°50.6	106°35.2	111°44.0	118°19.9
2	307°42.4	13.4'	21°04.0	-9.9'	54.4'	94°51.3	80°51.5	24°36.0	21°22.4	75°20.3	107°03.1	112°13.7	118°49.9
3	322°14.7	13.3'	21°13.9	-9.8'	54.4'	94°24.1	80°26.5	24°06.2	21°52.0	75°50.1	107°31.0	112°43.4	119°19.8
4	336°47.0	13.2'	21°23.7	-9.7'	54.3'	93°56.9	80°01.5	23°36.4	22°21.7	76°19.9	107°58.9	113°13.1	119°49.7
5	351°19.3	13.2'	21°33.4	-9.6'	54.3'	93°29.7	79°36.5	23°06.7	22°51.4	76°49.6	108°26.7	113°42.8	
6	5°51.5	13.1'	S21°43.0	-9.5'	54.3'	93°02.5	79°11.6	22°37.0	23°21.0	77°19.4	108°54.5	114°12.5	
7	20°23.6	13.1'	21°52.6	-9.4'	54.3'	92°35.3	78°46.7	22°07.3	23°50.7	77°49.1	109°22.3	114°42.2	
8	34°55.7	13.0'	22°02.0	-9.3'	54.3'	92°08.1	78°21.8	21°37.6	24°20.3	78°18.8	109°50.1	115°11.9	
9	49°27.7	13.0'	22°11.3	-9.2'	54.3'	91°40.9	77°56.9	21°07.9	24°49.9	78°48.5	110°17.8	115°41.5	
10	63°59.7	12.9'	22°20.5	-9.1'	54.3'	91°13.8	77°32.1	20°38.2	25°19.6	79°18.2	110°45.5	116°11.2	
11	78°31.6	12.9'	22°29.7	-9.0'	54.3'	90°46.6	77°07.3	20°08.6	25°49.2	79°47.9	111°13.3	116°40.8	
12	93°03.4	12.8'	S22°38.7	-8.9'	54.3'	90°19.5	76°42.5	19°38.9	26°18.8	80°17.5	111°40.9	117°10.4	
13	107°35.2	12.7'	22°47.6	-8.8'	54.3'	89°52.4	76°17.7	19°09.3	26°48.4	80°47.2	112°08.6	117°40.0	
14	122°07.0	12.7'	22°56.5	-8.7'	54.2'	89°25.2	75°53.0	18°39.6	27°18.0	81°16.8	112°36.2	118°09.6	
15	136°38.7	12.6'	23°05.2	-8.6'	54.2'	88°58.1	75°28.3	18°10.0	27°47.5	81°46.5	113°03.8	118°39.2	
16	151°10.3	12.6'	23°13.8	-8.5'	54.2'	88°31.0	75°03.6	17°40.4	28°17.1	82°16.1	113°31.4	119°08.8	
17	165°41.9	12.5'	23°22.4	-8.4'	54.2'	88°03.9	74°39.0	17°10.8	28°46.7	82°45.7	113°59.0	119°38.4	
18	180°13.4	12.5'	S23°30.8	-8.3'	54.2'	87°36.9	74°14.4	16°41.2	29°16.3	83°15.4	114°26.6		
19	194°44.9	12.4'	23°39.1	-8.2'	54.2'	87°09.8	73°49.8	16°11.6	29°45.8	83°45.0	114°54.1		
20	209°16.3	12.3'	23°47.3	-8.1'	54.2'	86°42.7	73°25.2	15°42.1	30°15.4	84°14.6	115°21.6		
21	223°47.6	12.3'	23°55.4	-8.0'	54.2'	86°15.7	73°00.7	15°12.5	30°44.9	84°44.2	115°49.1		
22	238°18.9	12.2'	24°03.4	-7.9'	54.2'	85°48.6	72°36.2	14°42.9	31°14.5	85°13.8	116°16.5		
23	252°50.1	12.2'	24°11.3	-7.8'	54.2'	85°21.5	72°11.7	14°13.4	31°44.0	85°43.3	116°44.0		
9 th	SD = 14.8' Mer. pass. 05:36					Sun SD = 16.2'							

h	Moon (10 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Tue	GHA	ν	Dec	d	HP	-Sun	-Altair	-Antares	+Spica	+Arcturus	+Regulus	+Sirius	+Procyon
0	267°21.3	12.1'	S24°19.1	-7.7'	54.2'	84°54.5	71°47.2	13°43.8	32°13.5	46°57.9	86°12.9	117°05.9	117°11.4
1	281°52.4	12.1'	24°26.8	-7.6'	54.2'	84°27.5	71°22.8	13°14.3	32°43.1	47°16.7	86°42.5	117°24.4	117°38.8
2	296°23.4	12.0'	24°34.3	-7.5'	54.2'	84°00.4	70°58.4	12°44.8	33°12.6	47°35.7	87°12.1	117°42.9	118°06.1
3	310°54.4	11.9'	24°41.8	-7.3'	54.2'	83°33.4	70°34.1	12°15.3	33°42.1	47°54.8	87°41.6	118°01.3	118°33.5
4	325°25.4	11.9'	24°49.2	-7.2'	54.2'	83°06.4	70°09.8	11°45.8	34°11.6	48°14.0	88°11.2	118°19.6	119°00.8
5	339°56.2	11.8'	24°56.4	-7.1'	54.2'	82°39.3	69°45.5	11°16.2	34°41.1	48°33.4	88°40.7	118°37.8	119°28.1
6	354°27.0	11.8'	S25°03.5	-7.0'	54.2'	82°12.3	69°21.2	10°46.8	35°10.7	48°52.9	89°10.3	118°55.9	119°55.3
7	8°57.8	11.7'	25°10.5	-6.9'	54.2'	81°45.3	68°57.0	10°17.3	35°40.2	49°12.5	89°39.8	119°13.9	
8	23°28.5	11.6'	25°17.4	-6.8'	54.1'	81°18.3	68°32.8	9°47.8	36°09.7	49°32.3	90°09.4	119°31.9	
9	37°59.2	11.6'	25°24.2	-6.7'	54.1'	80°51.3	68°08.7	9°18.3	36°39.2	49°52.1	90°38.9	119°49.7	
10	52°29.7	11.5'	25°30.9	-6.6'	54.1'	80°24.2	67°44.6	8°48.9	37°08.7	50°12.1	91°08.5		
11	67°00.3	11.5'	25°37.4	-6.4'	54.1'	79°57.2	67°20.5	8°19.4	37°38.2	50°32.2	91°38.0		
12	81°30.7	11.4'	S25°43.9	-6.3'	54.1'	79°30.2	66°56.4	7°50.0	38°07.7	50°52.4	92°07.5		
13	96°01.2	11.4'	25°50.2	-6.2'	54.1'	79°03.2	66°32.4	7°20.6	38°37.2	51°12.7	92°37.1		
14	110°31.5	11.3'	25°56.4	-6.1'	54.1'	78°36.2	66°08.5	6°51.2	39°06.7	51°33.1	93°06.6		
15	125°01.8	11.2'	26°02.5	-6.0'	54.1'	78°09.2	65°44.5	6°21.8	39°36.2	51°53.6	93°36.2		
16	139°32.1	11.2'	26°08.5	-5.8'	54.1'	77°42.2	65°20.6	5°52.4	40°05.7	52°14.2	94°05.7		
17	154°02.3	11.1'	26°14.3	-5.7'	54.1'	77°15.2	64°56.8	5°23.1	40°35.3	52°34.9	94°35.3		
18	168°32.4	11.1'	S26°20.0	-5.6'	54.1'	76°48.2	64°33.0	4°53.8	41°04.8	52°55.8	95°04.8		
19	183°02.5	11.0'	26°25.6	-5.5'	54.1'	76°21.1	64°09.2	4°24.6	41°34.3	53°16.7	95°34.3		
20	197°32.5	11.0'	26°31.1	-5.4'	54.1'	75°54.1	63°45.5	3°55.4	42°03.8	53°37.7	96°03.9		
21	212°02.5	10.9'	26°36.5	-5.2'	54.1'	75°27.1	63°21.8	3°26.4	42°33.3	53°58.8	96°33.4		
22	226°32.4	10.9'	26°41.7	-5.1'	54.1'	75°00.1	62°58.2	2°57.5	43°02.9	54°20.0	97°03.0		
23	241°02.3	10.8'	26°46.8	-5.0'	54.1'	74°33.1	62°34.6	2°28.9	43°32.4	54°41.3	97°32.5		
10 th	SD = 14.8' Mer. pass. 06:23					Sun SD = 16.2'							

h	Moon (11 th Feb)					Lunar Distance (objects with largest hourly LD delta)						
Wed	GHA	ν	Dec	d	HP	-Sun	-Altair	$\pm$ Antares	+Spica	+Arcturus	+Regulus	
0	255°32.1	10.8'	S26°51.8	-4.9'	54.1'	74°06.0	62°11.0	2°00.8	44°01.9	55°02.7	98°02.1	
1	270°01.9	10.7'	26°56.7	-4.7'	54.1'	73°39.0	61°47.5	1°33.5	44°31.4	55°24.1	98°31.7	
2	284°31.6	10.7'	27°01.4	-4.6'	54.1'	73°12.0	61°24.1		45°01.0	55°45.7	99°01.2	
3	299°01.3	10.6'	27°06.1	-4.5'	54.2'	72°44.9	61°00.6		45°30.5	56°07.3	99°30.8	
4	313°30.9	10.6'	27°10.6	-4.4'	54.2'	72°17.9	60°37.3		46°00.1	56°29.0	100°00.4	
5	328°00.4	10.5'	27°14.9	-4.2'	54.2'	71°50.8	60°14.0		46°29.6	56°50.8	100°29.9	
6	342°30.0	10.5'	S27°19.2	-4.1'	54.2'	71°23.8	59°50.7		46°59.2	57°12.7	100°59.5	
7	356°59.4	10.4'	27°23.3	-4.0'	54.2'	70°56.7	59°27.5		47°28.8	57°34.7	101°29.1	
8	11°28.8	10.4'	27°27.2	-3.9'	54.2'	70°29.6	59°04.3		47°58.3	57°56.7	101°58.7	
9	25°58.2	10.3'	27°31.1	-3.7'	54.2'	70°02.6	58°41.2	2°38.0	48°27.9	58°18.8	102°28.3	
10	40°27.5	10.3'	27°34.8	-3.6'	54.2'	69°35.5	58°18.2	3°06.7	48°57.5	58°41.0	102°57.9	
11	54°56.8	10.2'	27°38.4	-3.5'	54.2'	69°08.4	57°55.2	3°35.7	49°27.1	59°03.2	103°27.6	
12	69°26.1	10.2'	S27°41.9	-3.3'	54.2'	68°41.3	57°32.3	4°04.9	49°56.7	59°25.6	103°57.2	
13	83°55.3	10.2'	27°45.2	-3.2'	54.2'	68°14.2	57°09.4	4°34.1	50°26.3	59°48.0	104°26.8	
14	98°24.4	10.1'	27°48.4	-3.1'	54.2'	67°47.1	56°46.6	5°03.5	50°56.0	60°10.4	104°56.5	
15	112°53.5	10.1'	27°51.4	-2.9'	54.2'	67°19.9	56°23.8	5°32.9	51°25.6	60°33.0	105°26.1	
16	127°22.6	10.0'	27°54.4	-2.8'	54.2'	66°52.8	56°01.2	6°02.3	51°55.2	60°55.6	105°55.8	
17	141°51.6	10.0'	27°57.2	-2.7'	54.2'	66°25.7	55°38.5	6°31.8	52°24.9	61°18.3	106°25.4	
18	156°20.6	10.0'	S27°59.8	-2.5'	54.2'	65°58.5	55°16.0	7°01.4	52°54.5	61°41.0	106°55.1	
19	170°49.6	9.9'	28°02.4	-2.4'	54.2'	65°31.3	54°53.5	7°30.9	53°24.2	62°03.8	107°24.8	
20	185°18.5	9.9'	28°04.8	-2.3'	54.2'	65°04.2	54°31.1	8°00.5	53°53.9	62°26.7	107°54.5	
21	199°47.4	9.8'	28°07.0	-2.1'	54.3'	64°37.0	54°08.7	8°30.1	54°23.6	62°49.6	108°24.2	
22	214°16.2	9.8'	28°09.1	-2.0'	54.3'	64°09.8	53°46.5	8°59.8	54°53.3	63°12.6	108°53.9	
23	228°45.0	9.8'	28°11.1	-1.8'	54.3'	63°42.6	53°24.3	9°29.4	55°23.0	63°35.6	109°23.7	
11 th	SD = 14.8' Mer. pass. 07:12					Sun SD = 16.2'						

h	Moon (12 th Feb)					Lunar Distance (objects with largest hourly LD delta)								
Thu	GHA	ν	Dec	d	HP	-Sun	-Altair	+Antares	+Rigil Kent.	+Hadar	+Spica	+Arcturus	+Regulus	
0	243°13.8	9.7'	S28°13.0	-1.7'	54.3'	63°15.4	53°02.1	9°59.1			55°52.7	63°58.7	109°53.4	
1	257°42.6	9.7'	28°14.7	-1.6'	54.3'	62°48.1	52°40.1	10°28.8			56°22.5	64°21.9	110°23.2	
2	272°11.3	9.7'	28°16.3	-1.4'	54.3'	62°20.9	52°18.1	10°58.5			56°52.2	64°45.1	110°53.0	
3	286°40.0	9.7'	28°17.7	-1.3'	54.3'	61°53.6	51°56.2	11°28.2			57°22.0	65°08.4	111°22.7	
4	301°08.6	9.6'	28°19.0	-1.2'	54.3'	61°26.4	51°34.4	11°57.9			57°51.8	65°31.8	111°52.5	
5	315°37.2	9.6'	28°20.2	-1.0'	54.3'	60°59.1	51°12.7	12°27.7			58°21.6	65°55.2	112°22.3	
6	330°05.8	9.6'	S28°21.2	-0.9'	54.3'	60°31.8	50°51.1	12°57.5			58°51.4	66°18.6	112°52.2	
7	344°34.4	9.5'	28°22.1	-0.7'	54.3'	60°04.5	50°29.6	13°27.3			59°21.2	66°42.1	113°22.0	
8	359°03.0	9.5'	28°22.8	-0.6'	54.4'	59°37.2	50°08.1	13°57.1		47°04.9	59°51.0	67°05.7	113°51.8	
9	13°31.5	9.5'	28°23.4	-0.5'	54.4'	59°09.8	49°46.8	14°26.9		47°20.2	60°20.9	67°29.3	114°21.7	
10	28°00.0	9.5'	28°23.9	-0.3'	54.4'	58°42.5	49°25.5	14°56.8		47°35.7	60°50.7	67°53.0	114°51.6	
11	42°28.5	9.5'	28°24.2	-0.2'	54.4'	58°15.1	49°04.4	15°26.6		47°51.4	61°20.6	68°16.7	115°21.5	
12	56°56.9	9.4'	S28°24.4	-0.0'	54.4'	57°47.7	48°43.3	15°56.5		48°07.3	61°50.5	68°40.4	115°51.4	
13	71°25.4	9.4'	28°24.4	0.1'	54.4'	57°20.3	48°22.4	16°26.4		48°23.3	62°20.4	69°04.3	116°21.3	
14	85°53.8	9.4'	28°24.3	0.2'	54.4'	56°52.9	48°01.5	16°56.3	44°43.3	48°39.5	62°50.3	69°28.1	116°51.3	
15	100°22.2	9.4'	28°24.1	0.4'	54.4'	56°25.5	47°40.8	17°26.3	44°58.5	48°55.9	63°20.3	69°52.0	117°21.2	
16	114°50.6	9.4'	28°23.7	0.5'	54.5'	55°58.0	47°20.2	17°56.2	45°13.9	49°12.5	63°50.2	70°16.0	117°51.2	
17	129°18.9	9.4'	28°23.2	0.7'	54.5'	55°30.6	46°59.7	18°26.2	45°29.6	49°29.2	64°20.2	70°40.0	118°21.2	
18	143°47.3	9.4'	S28°22.5	0.8'	54.5'	55°03.1	46°39.3	18°56.2	45°45.4	49°46.0	64°50.2	71°04.1	118°51.2	
19	158°15.7	9.3'	28°21.7	0.9'	54.5'	54°35.6	46°19.1	19°26.2	46°01.4	50°03.1	65°20.2	71°28.2	119°21.2	
20	172°44.0	9.3'	28°20.8	1.1'	54.5'	54°08.1	45°58.9	19°56.2	46°17.6	50°20.3	65°50.3	71°52.3	119°51.3	
21	187°12.3	9.3'	28°19.7	1.2'	54.5'	53°40.5	45°38.9	20°26.3	46°34.0	50°37.6	66°20.3	72°16.5		
22	201°40.7	9.3'	28°18.4	1.4'	54.5'	53°13.0	45°19.1	20°56.3	46°50.5	50°55.2	66°50.4	72°40.7		
23	216°09.0	9.3'	28°17.1	1.5'	54.6'	52°45.4	44°59.3	21°26.4	47°07.3	51°12.8	67°20.5	73°05.0		
12 th	SD = 14.8' Mer. pass. 08:04					Sun SD = 16.2'								

h	Moon (13 th Feb)					Lunar Distance (objects with largest hourly LD delta)								
Fri	GHA	ν	Dec	d	HP	-Sun	-Altair	+Antares	+Rigel Kent.	+Hadar	+Acrux	+Spica	+Arcturus	
0	230°37.3	9.3'	S28°15.5	1.7'	54.6'	52°17.8	44°39.7	21°56.5	47°24.2	51°30.6	62°57.8	67°50.6	73°29.3	
1	245°05.6	9.3'	28°13.9	1.8'	54.6'	51°50.2	44°20.3	22°26.6	47°41.3	51°48.6	63°14.4	68°20.7	73°53.7	
2	259°33.9	9.3'	28°12.1	1.9'	54.6'	51°22.6	44°01.0	22°56.8	47°58.6	52°06.7	63°31.1	68°50.8	74°18.1	
3	274°02.2	9.3'	28°10.1	2.1'	54.6'	50°54.9	43°41.8	23°26.9	48°16.0	52°24.9	63°47.9	69°21.0	74°42.6	
4	288°30.5	9.3'	28°08.0	2.2'	54.6'	50°27.2	43°22.8	23°57.1	48°33.7	52°43.3	64°04.8	69°51.2	75°07.1	
5	302°58.8	9.3'	28°05.8	2.4'	54.6'	49°59.5	43°04.0	24°27.3	48°51.4	53°01.8	64°21.8	70°21.4	75°31.6	
6	317°27.1	9.3'	S28°03.4	2.5'	54.7'	49°31.8	42°45.3	24°57.6	49°09.4	53°20.5	64°38.8	70°51.6	75°56.2	
7	331°55.4	9.3'	28°00.9	2.7'	54.7'	49°04.1	42°26.8	25°27.8	49°27.5	53°39.3	64°56.0	71°21.8	76°20.8	
8	346°23.7	9.3'	27°58.3	2.8'	54.7'	48°36.3	42°08.4	25°58.1	49°45.8	53°58.2	65°13.3	71°52.1	76°45.4	
9	0°52.0	9.3'	27°55.4	2.9'	54.7'	48°08.6	41°50.3	26°28.4	50°04.2	54°17.3	65°30.7	72°22.4	77°10.1	
10	15°20.3	9.3'	27°52.5	3.1'	54.7'	47°40.8	41°32.3	26°58.7	50°22.8	54°36.5	65°48.2	72°52.7	77°34.8	
11	29°48.6	9.3'	27°49.4	3.2'	54.7'	47°13.0	41°14.5	27°29.0	50°41.5	54°55.8	66°05.7	73°23.0	77°59.6	
12	44°17.0	9.3'	S27°46.2	3.4'	54.8'	46°45.1	40°56.8	27°59.4	51°00.4	55°15.3	66°23.4	73°53.4	78°24.4	
13	58°45.3	9.4'	27°42.8	3.5'	54.8'	46°17.3	40°39.4	28°29.7	51°19.4	55°34.8	66°41.1	74°23.8	78°49.2	
14	73°13.7	9.4'	27°39.3	3.7'	54.8'	45°49.4	40°22.2	29°00.1	51°38.5	55°54.5	66°59.0	74°54.2	79°14.1	
15	87°42.0	9.4'	27°35.6	3.8'	54.8'	45°21.5	40°05.2	29°30.6	51°57.9	56°14.3	67°16.9	75°24.6	79°39.0	
16	102°10.4	9.4'	27°31.8	3.9'	54.8'	44°53.5	39°48.4	30°01.0	52°17.3	56°34.3	67°34.9	75°55.0	80°04.0	
17	116°38.8	9.4'	27°27.9	4.1'	54.9'	44°25.6	39°31.8	30°31.5	52°36.9	56°54.3	67°53.0	76°25.5	80°28.9	
18	131°07.2	9.4'	S27°23.8	4.2'	54.9'	43°57.6	39°15.4	31°02.0	52°56.6	57°14.5	68°11.2	76°56.0	80°53.9	
19	145°35.6	9.4'	27°19.6	4.4'	54.9'	43°29.6	38°59.2	31°32.5	53°16.5	57°34.7	68°29.5	77°26.5	81°19.0	
20	160°04.1	9.5'	27°15.2	4.5'	54.9'	43°01.6	38°43.3	32°03.0	53°36.5	57°55.1	68°47.8	77°57.0	81°44.1	
21	174°32.5	9.5'	27°10.7	4.6'	54.9'	42°33.5	38°27.6	32°33.6	53°56.6	58°15.6	69°06.2	78°27.6	82°09.2	
22	189°01.0	9.5'	27°06.1	4.8'	54.9'	42°05.5	38°12.1	33°04.2	54°16.8	58°36.2	69°24.8	78°58.2	82°34.3	
23	203°29.5	9.5'	27°01.3	4.9'	55.0'	41°37.4	37°56.9	33°34.8	54°37.2	58°56.9	69°43.3	79°28.8	82°59.5	
13 th	SD = 14.9' Mer. pass. 08:56					Sun SD = 16.2'								

h	Moon (14 th Feb)					Lunar Distance (objects with largest hourly LD delta)						
Sat	GHA	ν	Dec	d	HP	-Sun	+Antares	+Rigil Kent.	+Hadar	+Acrux	+Spica	+Arcturus
0	217°58.0	9.5'	S26°56.4	5.1'	55.0'	41°09.3	34°05.4	54°57.7	59°17.7	70°02.0	79°59.4	83°24.7
1	232°26.6	9.6'	26°51.3	5.2'	55.0'	40°41.1	34°36.1	55°18.3	59°38.7	70°20.8	80°30.1	83°49.9
2	246°55.1	9.6'	26°46.1	5.3'	55.0'	40°12.9	35°06.8	55°39.0	59°59.7	70°39.6	81°00.7	84°15.2
3	261°23.7	9.6'	26°40.8	5.5'	55.0'		35°37.5	55°59.9	60°20.8	70°58.5	81°31.4	84°40.5
4	275°52.3	9.6'	26°35.3	5.6'	55.1'		36°08.3	56°20.9	60°42.0	71°17.5	82°02.2	85°05.8
5	290°21.0	9.7'	26°29.7	5.8'	55.1'		36°39.0	56°42.0	61°03.4	71°36.5	82°32.9	85°31.2
6	304°49.7	9.7'	S26°23.9	5.9'	55.1'		37°09.8	57°03.2	61°24.8	71°55.6	83°03.7	85°56.5
7	319°18.4	9.7'	26°18.0	6.0'	55.1'		37°40.6	57°24.5	61°46.3	72°14.8	83°34.5	86°21.9
8	333°47.1	9.8'	26°12.0	6.2'	55.1'		38°11.5	57°45.9	62°07.9	72°34.1	84°05.4	86°47.4
9	348°15.8	9.8'	26°05.8	6.3'	55.2'		38°42.3	58°07.4	62°29.6	72°53.4	84°36.2	87°12.8
10	2°44.6	9.8'	25°59.5	6.4'	55.2'		39°13.2	58°29.1	62°51.4	73°12.8	85°07.1	87°38.3
11	17°13.5	9.9'	25°53.1	6.6'	55.2'		39°44.2	58°50.8	63°13.3	73°32.3	85°38.0	88°03.8
12	31°42.3	9.9'	S25°46.5	6.7'	55.2'		40°15.1	59°12.7	63°35.3	73°51.8	86°09.0	88°29.4
13	46°11.2	9.9'	25°39.8	6.8'	55.3'		40°46.1	59°34.6	63°57.3	74°11.4	86°39.9	88°54.9
14	60°40.1	10.0'	25°33.0	7.0'	55.3'		41°17.1	59°56.7	64°19.5	74°31.1	87°10.9	89°20.5
15	75°09.1	10.0'	25°26.0	7.1'	55.3'		41°48.1	60°18.8	64°41.7	74°50.8	87°42.0	89°46.1
16	89°38.1	10.0'	25°18.9	7.2'	55.3'		42°19.2	60°41.1	65°04.0	75°10.6	88°13.0	90°11.8
17	104°07.1	10.1'	25°11.7	7.4'	55.3'		42°50.3	61°03.4	65°26.4	75°30.4	88°44.1	90°37.4
18	118°36.2	10.1'	S25°04.3	7.5'	55.4'		43°21.4	61°25.8	65°48.9	75°50.3	89°15.2	91°03.1
19	133°05.3	10.1'	24°56.8	7.6'	55.4'		43°52.5	61°48.4	66°11.5	76°10.3	89°46.3	91°28.8
20	147°34.4	10.2'	24°49.2	7.8'	55.4'		44°23.7	62°11.0	66°34.1	76°30.4	90°17.5	91°54.5
21	162°03.6	10.2'	24°41.4	7.9'	55.4'		44°54.9	62°33.7	66°56.8	76°50.4	90°48.7	92°20.2
22	176°32.8	10.3'	24°33.5	8.0'	55.5'		45°26.1	62°56.5	67°19.6	77°10.6	91°19.9	92°46.0
23	191°02.1	10.3'	24°25.5	8.1'	55.5'		45°57.4	63°19.4	67°42.5	77°30.8	91°51.1	93°11.8
14 th	SD = 15.0' Mer. pass. 09:49					Sun SD = 16.2'						

h Moon (15 th Feb)						Lunar Distance (objects with largest hourly LD delta)					
Sun	GHA	ν	Dec	d	HP	+Antares	+Rigel Kent.	+Hadar	+Acrux	+Spica	+Arcturus
0	205°31.4	10.3'	S24°17.4	8.3'	55.5'	46°28.6	63°42.4	68°05.4	77°51.0	92°22.4	93°37.5
1	220°00.8	10.4'	24°09.1	8.4'	55.5'	46°59.9	64°05.4	68°28.4	78°11.3	92°53.7	94°03.4
2	234°30.2	10.4'	24°00.7	8.5'	55.5'	47°31.3	64°28.6	68°51.5	78°31.7	93°25.0	94°29.2
3	248°59.6	10.5'	23°52.2	8.7'	55.6'	48°02.7	64°51.8	69°14.7	78°52.1	93°56.4	94°55.0
4	263°29.1	10.5'	23°43.5	8.8'	55.6'	48°34.0	65°15.1	69°37.9	79°12.6	94°27.8	95°20.9
5	277°58.6	10.6'	23°34.7	8.9'	55.6'	49°05.5	65°38.5	70°01.2	79°33.1	94°59.2	95°46.8
6	292°28.1	10.6'	S23°25.8	9.0'	55.6'	49°36.9	66°02.0	70°24.6	79°53.7	95°30.6	96°12.6
7	306°57.7	10.7'	23°16.8	9.1'	55.7'	50°08.4	66°25.6	70°48.0	80°14.3	96°02.1	96°38.6
8	321°27.4	10.7'	23°07.7	9.3'	55.7'	50°39.9	66°49.2	71°11.6	80°34.9	96°33.6	97°04.5
9	335°57.1	10.7'	22°58.4	9.4'	55.7'	51°11.5	67°12.9	71°35.1	80°55.7	97°05.1	97°30.4
10	350°26.8	10.8'	22°49.0	9.5'	55.7'	51°43.0	67°36.7	71°58.8	81°16.4	97°36.7	97°56.3
11	4°56.6	10.8'	22°39.5	9.6'	55.8'	52°14.6	68°00.5	72°22.5	81°37.2	98°08.3	98°22.3
12	19°26.5	10.9'	S22°29.9	9.7'	55.8'	52°46.3	68°24.4	72°46.2	81°58.1	98°39.9	98°48.2
13	33°56.3	10.9'	22°20.1	9.9'	55.8'	53°17.9	68°48.4	73°10.0	82°18.9	99°11.5	99°14.2
14	48°26.3	11.0'	22°10.3	10.0'	55.8'	53°49.6	69°12.5	73°33.9	82°39.9	99°43.2	99°40.2
15	62°56.2	11.0'	22°00.3	10.1'	55.9'	54°21.3	69°36.6	73°57.9	83°00.8	100°14.9	100°06.2
16	77°26.2	11.1'	21°50.2	10.2'	55.9'	54°53.1	70°00.9	74°21.9	83°21.8	100°46.7	100°32.2
17	91°56.3	11.1'	21°40.0	10.3'	55.9'	55°24.8	70°25.1	74°45.9	83°42.9	101°18.4	100°58.2
18	106°26.4	11.2'	S21°29.7	10.4'	55.9'	55°56.6	70°49.5	75°10.0	84°04.0	101°50.2	101°24.2
19	120°56.6	11.2'	21°19.2	10.6'	56.0'	56°28.5	71°13.9	75°34.2	84°25.1	102°22.0	101°50.2
20	135°26.8	11.3'	21°08.7	10.7'	56.0'	57°00.3	71°38.3	75°58.4	84°46.2	102°53.9	102°16.2
21	149°57.0	11.3'	20°58.0	10.8'	56.0'	57°32.2	72°02.9	76°22.7	85°07.4	103°25.8	102°48.2
22	164°27.3	11.3'	20°47.2	10.9'	56.0'	58°04.2	72°27.5	76°47.1	85°28.7	103°57.7	103°08.2
23	178°57.7	11.4'	20°36.4	11.0'	56.0'	58°36.1	72°52.1	77°11.4	85°49.9	104°29.6	103°34.2
15 th	SD = 15.1' Mer. pass. 10:40										

h Moon (16 th Feb)						Lunar Distance (objects with largest hourly LD delta)					
Mon	GHA	ν	Dec	d	HP	+Antares	+Rigel Kent.	+Hadar	+Acrux	+Arcturus	+Spica
0	193°28.1	11.4'	S20°25.4	11.1'	56.1'	59°08.1	73°16.8	77°35.9	86°11.2	104°00.2	105°01.6
1	207°58.5	11.5'	20°14.3	11.2'	56.1'	59°40.1	73°41.6	78°00.4	86°32.5	104°26.2	105°33.6
2	222°29.0	11.5'	20°03.1	11.3'	56.1'	60°12.1	74°06.4	78°24.9	86°53.9	104°52.3	106°05.6
3	236°59.5	11.6'	19°51.8	11.4'	56.1'	60°44.2	74°31.3	78°49.5	87°15.2	105°18.3	106°37.7
4	251°30.1	11.6'	19°40.3	11.5'	56.2'	61°16.3	74°56.3	79°14.1	87°36.7	105°44.3	107°09.8
5	266°00.7	11.7'	19°28.8	11.6'	56.2'	61°48.5	75°21.3	79°38.8	87°58.1	106°10.3	107°41.9
6	280°31.4	11.7'	S19°17.2	11.7'	56.2'	62°20.6	75°46.3	80°03.5	88°19.6	106°36.3	108°14.1
7	295°02.1	11.8'	19°05.5	11.8'	56.2'	62°52.8	76°11.4	80°28.3	88°41.0	107°02.3	108°46.2
8	309°32.9	11.8'	18°53.6	11.9'	56.3'	63°25.0	76°36.6	80°53.1	89°02.5	107°28.2	109°18.4
9	324°03.7	11.9'	18°41.7	12.0'	56.3'	63°57.3	77°01.8	81°17.9	89°24.1	107°54.2	109°50.7
10	338°34.5	11.9'	18°29.7	12.1'	56.3'	64°29.6	77°27.1	81°42.8	89°45.6	108°20.2	110°23.0
11	353°05.4	11.9'	18°17.5	12.2'	56.3'	65°01.9	77°52.4	82°07.8	90°07.2	108°46.1	110°55.3
12	7°36.4	12.0'	S18°05.3	12.3'	56.4'	65°34.2	78°17.7	82°32.7	90°28.8	109°12.0	111°27.6
13	22°07.4	12.0'	17°53.0	12.4'	56.4'	66°06.6	78°43.1	82°57.7	90°50.4	109°38.0	111°59.9
14	36°38.4	12.1'	17°40.6	12.5'	56.4'	66°39.0	79°08.6	83°22.8	91°12.0	110°03.9	112°32.3
15	51°09.5	12.1'	17°28.1	12.6'	56.4'	67°11.4	79°34.1	83°47.9	91°33.7	110°29.8	113°04.7
16	65°40.6	12.2'	17°15.5	12.7'	56.5'	67°43.9	79°59.6	84°13.0	91°55.3	110°55.6	113°37.2
17	80°11.8	12.2'	17°02.8	12.8'	56.5'	New Moon					
18	94°43.0	12.2'	S16°50.0	12.9'	56.5'	New Moon					
19	109°14.2	12.3'	16°37.1	13.0'	56.5'	New Moon					
20	123°45.5	12.3'	16°24.1	13.1'	56.6'	New Moon					
21	138°16.8	12.4'	16°11.1	13.1'	56.6'	New Moon					
22	152°48.2	12.4'	15°57.9	13.2'	56.6'	New Moon					
23	167°19.6	12.5'	15°44.7	13.3'	56.6'	New Moon					
16 th	SD = 15.3' Mer. pass. 11:29										

h Moon (17 th Feb)					
Tue	GHA	ν	Dec	d	HP
0	181°51.1	12.5'	S15°31.4	13.4'	56.7'
1	196°22.6	12.5'	15°18.0	13.5'	56.7'
2	210°54.1	12.6'	15°04.5	13.6'	56.7'
3	225°25.7	12.6'	14°50.9	13.6'	56.7'
4	239°57.3	12.6'	14°37.3	13.7'	56.8'
5	254°28.9	12.7'	14°23.5	13.8'	56.8'
6	269°00.6	12.7'	S14°09.7	13.9'	56.8'
7	283°32.3	12.8'	13°55.9	14.0'	56.8'
8	298°04.1	12.8'	13°41.9	14.0'	56.9'
9	312°35.9	12.8'	13°27.9	14.1'	56.9'
10	327°07.7	12.9'	13°13.8	14.2'	56.9'
11	341°39.6	12.9'	12°59.6	14.3'	56.9'
12	356°11.5	12.9'	S12°45.3	14.3'	57.0'
13	10°43.4	13.0'	12°31.0	14.4'	57.0'
14	25°15.3	13.0'	12°16.6	14.5'	57.0'
15	39°47.3	13.0'	12°02.2	14.5'	57.0'
16	54°19.3	13.0'	11°47.6	14.6'	57.1'
17	68°51.4	13.1'	11°33.0	14.7'	57.1'
18	83°23.4	13.1'	S11°18.4	14.7'	57.1'
19	97°55.5	13.1'	11°03.7	14.8'	57.1'
20	112°27.6	13.1'	10°48.9	14.8'	57.1'
21	126°59.8	13.2'	10°34.0	14.9'	57.2'
22	141°32.0	13.2'	10°19.1	15.0'	57.2'
23	156°04.1	13.2'	10°04.2	15.0'	57.2'
17 th	SD = 15.5' Mer. pass. 12:16				

h Moon (18 th Feb)						Lunar Distance (objects with largest hourly LD delta)							
Wed	GHA	ν	Dec	d	HP	-Jupiter	-Betelgeuse	-Capella	-Rigel	-Aldebaran	-Saturn	+Venus	+Fomalhaut
0	170°36.4	13.2'	S09°49.1	15.1'	57.2'								
1	185°08.6	13.3'	09°34.1	15.1'	57.3'								
2	199°40.9	13.3'	09°18.9	15.2'	57.3'								
3	214°13.1	13.3'	09°03.7	15.2'	57.3'								
4	228°45.4	13.3'	08°48.5	15.3'	57.3'								
5	243°17.8	13.3'	08°33.2	15.3'	57.4'								
6	257°50.1	13.4'	S08°17.9	15.4'	57.4'								
7	272°22.5	13.4'	08°02.5	15.4'	57.4'								
8	286°54.8	13.4'	07°47.0	15.5'	57.4'								
9	301°27.2	13.4'	07°31.5	15.5'	57.4'								
10	315°59.6	13.4'	07°16.0	15.6'	57.5'								
11	330°32.0	13.4'	07°00.4	15.6'	57.5'								
12	345°04.4	13.4'	S06°44.8	15.7'	57.5'								
13	359°36.9	13.4'	06°29.1	15.7'	57.5'								
14	14°09.3	13.4'	06°13.4	15.7'	57.6'								
15	28°41.8	13.5'	05°57.7	15.8'	57.6'								
16	43°14.2	13.5'	05°41.9	15.8'	57.6'								
17	57°46.7	13.5'	05°26.1	15.9'	57.6'								
18	72°19.1	13.5'	S05°10.2	15.9'	57.6'								
19	86°51.6	13.5'	04°54.4	15.9'	57.7'	119°43.0							
20	101°24.1	13.5'	04°38.4	16.0'	57.7'	119°09.1							
21	115°56.6	13.5'	04°22.5	16.0'	57.7'	118°35.2							
22	130°29.1	13.5'	04°06.5	16.0'	57.7'	118°01.2							
23	145°01.5	13.5'	03°50.5	16.0'	57.7'	117°27.2							
18 th	SD = 15.6' Mer. pass. 13:02												

h Moon (19 th Feb)						Lunar Distance (objects with largest hourly LD delta)							
Thu	GHA	ν	Dec	d	HP	-Pollux	-Procyon	-Jupiter	-Betelgeuse	-Capella	-Aldebaran	+Venus	+Fomalhaut
0	159°34.0	13.5'	S03°34.4	16.1'	57.8'								
1	174°06.5	13.5'	03°18.4	16.1'	57.8'								
2	188°39.0	13.5'	03°02.3	16.1'	57.8'								
3	203°11.4	13.5'	02°46.1	16.1'	57.8'								
4	217°43.9	13.5'	02°30.0	16.2'	57.8'								
5	232°16.4	13.5'	02°13.8	16.2'	57.9'								
6	246°48.8	13.4'	S01°57.7	16.2'	57.9'								
7	261°21.3	13.4'	01°41.5	16.2'	57.9'								
8	275°53.7	13.4'	01°25.2	16.2'	57.9'	119°47.9							
9	290°26.1	13.4'	01°09.0	16.3'	57.9'	119°13.8							
10	304°58.5	13.4'	00°52.7	16.3'	58.0'	118°39.7							
11	319°30.9	13.4'	00°36.5	16.3'	58.0'	118°05.6							
12	334°03.3	13.4'	S00°20.2	16.3'	58.0'	117°31.4							
13	348°35.7	13.3'	S00°03.9	16.3'	58.0'	116°57.3							
14	3°08.0	13.3'	N00°12.4	16.3'	58.0'	116°23.1							
15	17°40.3	13.3'	00°28.7	16.3'	58.0'	115°48.9							
16	32°12.6	13.3'	00°45.0	16.3'	58.1'	115°14.7							
17	46°44.9	13.3'	01°01.3	16.3'	58.1'	114°40.4							
18	61°17.2	13.2'	N01°17.7	16.3'	58.1'	114°06.1							
19	75°49.4	13.2'	01°34.0	16.3'	58.1'	113°31.9							
20	90°21.7	13.2'	01°50.3	16.3'	58.1'	112°57.5							
21	104°53.9	13.2'	02°06.7	16.3'	58.2'	112°23.2							
22	119°26.0	13.1'	02°23.0	16.3'	58.2'	111°48.9							
23	133°58.2	13.1'	02°39.3	16.3'	58.2'	111°14.5							
19 th	SD = 15.8' Mer. pass. 13:47												

h	Moon (20 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Fri	GHA	ν	Dec	d	HP	-Pollux	-Jupiter	-Capella	-Aldebaran	+Saturn	+Venus	+Fomalhaut	+Sun
0	148°30.3	13.1'	N02°55.6	16.3'	58.2'	110°40.1	103°10.5	79°43.7	68°00.7		20°48.7	36°07.9	
1	163°02.4	13.1'	03°11.9	16.3'	58.2'	110°05.7	102°36.0	79°11.0	67°27.0		21°19.9	36°35.6	
2	177°34.4	13.0'	03°28.3	16.3'	58.2'	109°31.3	102°01.5	78°38.2	66°53.2		21°51.2	37°03.5	
3	192°06.4	13.0'	03°44.6	16.3'	58.3'	108°56.9	101°26.9	78°05.4	66°19.4		22°22.5	37°31.5	
4	206°38.4	12.9'	04°00.8	16.3'	58.3'	108°22.4	100°52.3	77°32.7	65°45.7		22°53.8	37°59.8	
5	221°10.4	12.9'	04°17.1	16.3'	58.3'	107°48.0	100°17.8	76°59.9	65°11.9		23°25.1	38°28.2	
6	235°42.3	12.9'	N04°33.4	16.3'	58.3'	107°13.5	99°43.2	76°27.1	64°38.1		23°56.5	38°56.7	
7	250°14.2	12.8'	04°49.7	16.2'	58.3'	106°39.0	99°08.5	75°54.3	64°04.3		24°27.8	39°25.4	
8	264°46.0	12.8'	05°05.9	16.2'	58.3'	106°04.5	98°33.9	75°21.4	63°30.5	7°52.3	24°59.2	39°54.2	
9	279°17.8	12.8'	05°22.1	16.2'	58.3'	105°30.0	97°59.2	74°48.6	62°56.7	8°21.9	25°30.6	40°23.2	
10	293°49.6	12.7'	05°38.3	16.2'	58.4'	104°55.4	97°24.6	74°15.8	62°22.8	8°52.1	26°02.0	40°52.3	
11	308°21.3	12.7'	05°54.5	16.2'	58.4'	104°20.8	96°49.9	73°43.0	61°49.0	9°22.7	26°33.5	41°21.5	
12	322°52.9	12.6'	N06°10.7	16.1'	58.4'	103°46.3	96°15.2	73°10.1	61°15.2	9°53.8	27°04.9	41°50.9	
13	337°24.6	12.6'	06°26.8	16.1'	58.4'	103°11.7	95°40.5	72°37.3	60°41.3	10°25.2	27°36.4	42°20.4	
14	351°56.1	12.5'	06°42.9	16.1'	58.4'	102°37.1	95°05.8	72°04.5	60°07.5	10°57.0	28°07.9	42°50.0	
15	6°27.7	12.5'	06°59.0	16.1'	58.4'	102°02.4	94°31.0	71°31.6	59°33.6	11°29.0	28°39.4	43°19.7	
16	20°59.2	12.4'	07°15.1	16.0'	58.5'	101°27.8	93°56.3	70°58.8	58°59.8	12°01.2	29°10.9	43°49.5	
17	35°30.6	12.4'	07°31.1	16.0'	58.5'	100°53.1	93°21.5	70°25.9	58°25.9	12°33.6	29°42.5	44°19.4	40°16.9
18	50°02.0	12.3'	N07°47.1	16.0'	58.5'	100°18.5	92°46.7	69°53.1	57°52.0	13°06.2	30°14.0	44°49.5	40°49.1
19	64°33.3	12.3'	08°03.1	15.9'	58.5'	99°43.8	92°11.9	69°20.2	57°18.2	13°39.0	30°45.6	45°19.6	41°21.4
20	79°04.6	12.2'	08°19.1	15.9'	58.5'	99°09.1	91°37.1	68°47.4	56°44.3	14°11.9	31°17.2	45°49.8	41°53.6
21	93°35.8	12.2'	08°35.0	15.9'	58.5'	98°34.4	91°02.3	68°14.6	56°10.4	14°44.9	31°48.8	46°20.1	42°25.8
22	108°07.0	12.1'	08°50.8	15.8'	58.5'	97°59.7	90°27.5	67°41.7	55°36.5	15°18.1	32°20.4	46°50.6	42°58.1
23	122°38.1	12.1'	09°06.7	15.8'	58.5'	97°24.9	89°52.6	67°08.9	55°02.7	15°51.4	32°52.0	47°21.1	43°30.3
20 th	SD = 15.9' Mer. pass. 14:33					Sun SD = 16.2'							

Moon (21 st Feb)						Lunar Distance (objects with largest hourly LD delta)							
Sat	GHA	ν	Dec	d	HP	-Procyon	-Pollux	-Jupiter	-Aldebaran	+Saturn	+Venus	+Sun	+Fomalhaut
0	137°09.2	12.0'	N09°22.5	15.8'	58.6'	100°20.5	96°50.2	89°17.8	54°28.8	16°24.7	33°23.6	44°02.6	47°51.6
1	151°40.1	11.9'	09°38.2	15.7'	58.6'	99°47.8	96°15.4	88°42.9	53°54.9	16°58.2	33°55.3	44°34.9	48°22.3
2	166°11.1	11.9'	09°53.9	15.7'	58.6'	99°15.0	95°40.6	88°08.0	53°21.0	17°31.7	34°27.0	45°07.2	48°53.1
3	180°42.0	11.8'	10°09.6	15.6'	58.6'	98°42.2	95°05.9	87°33.1	52°47.2	18°05.3	34°58.6	45°39.5	49°23.9
4	195°12.8	11.7'	10°25.2	15.6'	58.6'	98°09.4	94°31.1	86°58.2	52°13.3	18°38.9	35°30.3	46°11.9	49°54.8
5	209°43.5	11.7'	10°40.8	15.5'	58.6'	97°36.6	93°56.2	86°23.3	51°39.4	19°12.7	36°02.0	46°44.2	50°25.8
6	224°14.2	11.6'	N10°56.3	15.5'	58.6'	97°03.8	93°21.4	85°48.3	51°05.6	19°46.5	36°33.8	47°16.6	50°56.8
7	238°44.8	11.5'	11°11.8	15.4'	58.7'	96°31.0	92°46.6	85°13.4	50°31.7	20°20.3	37°05.5	47°48.9	51°27.9
8	253°15.4	11.5'	11°27.3	15.4'	58.7'	95°58.1	92°11.7	84°38.4	49°57.9	20°54.2	37°37.2	48°21.3	51°59.1
9	267°45.8	11.4'	11°42.6	15.3'	58.7'	95°25.3	91°36.9	84°03.5	49°24.0	21°28.1	38°09.0	48°53.7	52°30.4
10	282°16.2	11.3'	11°58.0	15.3'	58.7'	94°52.4	91°02.0	83°28.5	48°50.2	22°02.1	38°40.8	49°26.1	53°01.7
11	296°46.6	11.3'	12°13.2	15.2'	58.7'	94°19.5	90°27.1	82°53.5	48°16.3	22°36.1	39°12.5	49°58.5	53°33.1
12	311°16.9	11.2'	N12°28.4	15.2'	58.7'	93°46.6	89°52.2	82°18.5	47°42.5	23°10.2	39°44.3	50°30.9	54°04.5
13	325°47.0	11.1'	12°43.6	15.1'	58.7'	93°13.7	89°17.3	81°43.5	47°08.7	23°44.3	40°16.1	51°03.4	54°36.0
14	340°17.2	11.0'	12°58.7	15.0'	58.7'	92°40.7	88°42.4	81°08.5	46°34.9	24°18.4	40°48.0	51°35.8	55°07.6
15	354°47.2	11.0'	13°13.7	15.0'	58.7'	92°07.8	88°07.5	80°33.5	46°01.1	24°52.6	41°19.8	52°08.3	55°39.2
16	9°17.2	10.9'	13°28.7	14.9'	58.8'	91°34.8	87°32.6	79°58.4	45°27.4	25°26.8	41°51.6	52°40.7	56°10.8
17	23°47.1	10.8'	13°43.6	14.8'	58.8'	91°01.9	86°57.6	79°23.4	44°53.6	26°01.0	42°23.5	53°13.2	56°42.6
18	38°16.9	10.7'	N13°58.4	14.8'	58.8'	90°28.9	86°22.7	78°48.3	44°19.9	26°35.3	42°55.3	53°45.7	57°14.3
19	52°46.6	10.7'	14°13.2	14.7'	58.8'	89°55.9	85°47.7	78°13.3	43°46.1	27°09.6	43°27.2	54°18.2	57°46.1
20	67°16.3	10.6'	14°27.9	14.6'	58.8'	89°22.9	85°12.7	77°38.2	43°12.4	27°43.9	43°59.1	54°50.7	58°18.0
21	81°45.9	10.5'	14°42.5	14.5'	58.8'	88°49.9	84°37.8	77°03.1	42°38.7	28°18.2	44°30.9	55°23.2	58°49.9
22	96°15.3	10.4'	14°57.0	14.5'	58.8'	88°16.9	84°02.8	76°28.0	42°05.1	28°52.6	45°02.8	55°55.7	59°21.9
23	110°44.8	10.3'	15°11.5	14.4'	58.8'	87°43.9	83°27.8	75°52.9	41°31.4	29°27.0	45°34.7	56°28.3	59°53.9
21 st	SD = 16.0' Mer. pass. 15:22					Sun SD = 16.2'							

h	Moon (22 nd Feb)					Lunar Distance (objects with largest hourly LD delta)							
Sun	GHA	ν	Dec	d	HP	-Regulus	-Pollux	-Jupiter	-Aldebaran	+Saturn	+Venus	+Sun	+Fomalhaut
0	125°14.1	10.2'	N15°25.9	14.3'	58.8'	119°47.5	82°52.8	75°17.8	40°57.8	30°01.4	46°06.7	57°00.8	60°25.9
1	139°43.3	10.2'	15°40.2	14.2'	58.8'	119°12.4	82°17.7	74°42.7	40°24.2	30°35.8	46°38.6	57°33.4	60°58.0
2	154°12.5	10.1'	15°54.5	14.2'	58.9'	118°37.4	81°42.7	74°07.6	39°50.6	31°10.2	47°10.5	58°05.9	61°30.1
3	168°41.6	10.0'	16°08.6	14.1'	58.9'	118°02.3	81°07.7	73°32.4	39°17.1	31°44.7	47°42.5	58°38.5	62°02.2
4	183°10.5	9.9'	16°22.7	14.0'	58.9'	117°27.2	80°32.6	72°57.3	38°43.6	32°19.2	48°14.4	59°11.1	62°34.4
5	197°39.4	9.8'	16°36.7	13.9'	58.9'	116°52.1	79°57.6	72°22.2	38°10.1	32°53.7	48°46.4	59°43.6	63°06.7
6	212°08.2	9.7'	N16°50.6	13.8'	58.9'	116°17.0	79°22.5	71°47.0	37°36.6	33°28.2	49°18.3	60°16.2	63°38.9
7	226°36.9	9.6'	17°04.4	13.7'	58.9'	115°41.9	78°47.5	71°11.8	37°03.2	34°02.8	49°50.3	60°48.8	64°11.3
8	241°05.6	9.5'	17°18.1	13.6'	58.9'	115°06.8	78°12.4	70°36.7	36°29.9	34°37.3	50°22.3	61°21.4	64°43.6
9	255°34.1	9.4'	17°31.7	13.5'	58.9'	114°31.7	77°37.3	70°01.5	35°56.5	35°11.9	50°54.3	61°54.1	65°16.0
10	270°02.5	9.3'	17°45.3	13.4'	58.9'	113°56.5	77°02.2	69°26.3	35°23.2	35°46.5	51°26.3	62°26.7	65°48.4
11	284°30.9	9.3'	17°58.7	13.3'	58.9'	113°21.4	76°27.1	68°51.2	34°50.0	36°21.1	51°58.3	62°59.3	66°20.8
12	298°59.1	9.2'	N18°12.0	13.2'	58.9'	112°46.2	75°52.0	68°16.0	34°16.8	36°55.7	52°30.3	63°32.0	66°53.3
13	313°27.3	9.1'	18°25.3	13.1'	58.9'	112°11.1	75°16.9	67°40.8	33°43.7	37°30.3	53°02.3	64°04.6	67°25.7
14	327°55.4	9.0'	18°38.4	13.0'	59.0'	111°35.9	74°41.8	67°05.6	33°10.6	38°04.9	53°34.3	64°37.3	67°58.3
15	342°23.3	8.9'	18°51.5	12.9'	59.0'	111°00.7	74°06.7	66°30.4	32°37.5	38°39.6	54°06.4	65°09.9	68°30.8
16	356°51.2	8.8'	19°04.4	12.8'	59.0'	110°25.6	73°31.6	65°55.1	32°04.6	39°14.2	54°38.4	65°42.6	69°03.4
17	11°19.0	8.7'	19°17.2	12.7'	59.0'	109°50.4	72°56.4	65°19.9	31°31.6	39°48.9	55°10.5	66°15.3	69°36.0
18	25°46.7	8.6'	N19°30.0	12.6'	59.0'	109°15.2	72°21.3	64°44.7	30°58.8	40°23.6	55°42.5	66°47.9	70°08.6
19	40°14.3	8.5'	19°42.6	12.5'	59.0'	108°40.0	71°46.1	64°09.5	30°26.0	40°58.3	56°14.6	67°20.6	70°41.3
20	54°41.7	8.4'	19°55.1	12.4'	59.0'	108°04.8	71°11.0	63°34.2	29°53.4	41°33.0	56°46.7	67°53.3	71°13.9
21	69°09.1	8.3'	20°07.5	12.3'	59.0'	107°29.6	70°35.8	62°59.0	29°20.7	42°07.7	57°18.7	68°26.0	71°46.6
22	83°36.4	8.2'	20°19.8	12.2'	59.0'	106°54.4	70°00.7	62°23.8	28°48.2	42°42.5	57°50.8	68°58.7	72°19.3
23	98°03.6	8.1'	20°31.9	12.0'	59.0'	106°19.2	69°25.5	61°48.5	28°15.8	43°17.2	58°22.9	69°31.4	72°52.1
22 nd	SD = 16.0' Mer. pass. 16:13					Sun SD = 16.2'							

h	Moon (23 rd Feb)					Lunar Distance (objects with largest hourly LD delta)							
Mon	GHA	ν	Dec	d	HP	-Regulus	-Procyon	-Pollux	-Jupiter	+Saturn	+Venus	+Sun	+Fomalhaut
0	112°30.7	8.0'	N20°44.0	11.9'	59.0'	105°43.9	73°57.7	68°50.3	61°13.3	43°51.9	58°55.0	70°04.2	73°24.8
1	126°57.7	7.9'	20°55.9	11.8'	59.0'	105°08.7	73°24.6	68°15.1	60°38.0	44°26.7	59°27.1	70°36.9	73°57.6
2	141°24.6	7.8'	21°07.7	11.7'	59.0'	104°33.5	72°51.6	67°40.0	60°02.7	45°01.5	59°59.2	71°09.6	74°30.4
3	155°51.4	7.7'	21°19.4	11.6'	59.0'	103°58.2	72°18.6	67°04.8	59°27.5	45°36.2	60°31.3	71°42.4	75°03.2
4	170°18.1	7.6'	21°31.0	11.4'	59.0'	103°23.0	71°45.6	66°29.6	58°52.2	46°11.0	61°03.4	72°15.1	75°36.0
5	184°44.7	7.5'	21°42.4	11.3'	59.0'	102°47.7	71°12.7	65°54.4	58°16.9	46°45.8	61°35.5	72°47.8	76°08.9
6	199°11.2	7.4'	N21°53.7	11.2'	59.1'	102°12.5	70°39.7	65°19.2	57°41.7	47°20.6	62°07.6	73°20.6	76°41.8
7	213°37.6	7.3'	22°04.9	11.0'	59.1'	101°37.2	70°06.7	64°44.0	57°06.4	47°55.4	62°39.8	73°53.3	77°14.6
8	228°03.9	7.2'	22°16.0	10.9'	59.1'	101°01.9	69°33.8	64°08.8	56°31.1	48°30.2	63°11.9	74°26.1	77°47.5
9	242°30.1	7.1'	22°26.9	10.8'	59.1'	100°26.7	69°00.9	63°33.5	55°55.8	49°05.1	63°44.0	74°58.9	78°20.4
10	256°56.2	7.0'	22°37.7	10.6'	59.1'	99°51.4	68°28.0	62°58.3	55°20.6	49°39.9	64°16.2	75°31.6	78°53.4
11	271°22.2	6.9'	22°48.3	10.5'	59.1'	99°16.1	67°55.1	62°23.1	54°45.3	50°14.7	64°48.3	76°04.4	79°26.3
12	285°48.1	6.8'	N22°58.8	10.4'	59.1'	98°40.8	67°22.2	61°47.9	54°10.0	50°49.6	65°20.5	76°37.2	79°59.3
13	300°13.9	6.7'	23°09.2	10.2'	59.1'	98°05.5	66°49.3	61°12.6	53°34.7	51°24.4	65°52.6	77°10.0	80°32.2
14	314°39.6	6.6'	23°19.4	10.1'	59.1'	97°30.2	66°16.4	60°37.4	52°59.4	51°59.3	66°24.8	77°42.7	81°05.2
15	329°05.2	6.5'	23°29.5	9.9'	59.1'	96°55.0	65°43.6	60°02.2	52°24.1	52°34.2	66°57.0	78°15.5	81°38.2
16	343°30.7	6.4'	23°39.4	9.8'	59.1'	96°19.7	65°10.8	59°26.9	51°48.8	53°09.0	67°29.1	78°48.3	82°11.2
17	357°56.1	6.3'	23°49.2	9.7'	59.1'	95°44.3	64°38.0	58°51.7	51°13.5	53°43.9	68°01.3	79°21.1	82°44.2
18	12°21.4	6.2'	N23°58.9	9.5'	59.1'	95°09.0	64°05.2	58°16.4	50°38.2	54°18.8	68°33.5	79°53.9	83°17.2
19	26°46.7	6.1'	24°08.4	9.4'	59.1'	94°33.7	63°32.4	57°41.2	50°02.9	54°53.7	69°05.6	80°26.7	83°50.2
20	41°11.8	6.0'	24°17.8	9.2'	59.1'	93°58.4	62°59.7	57°05.9	49°27.6	55°28.6	69°37.8	80°59.5	84°23.2
21	55°36.8	5.9'	24°27.0	9.0'	59.1'	93°23.1	62°27.0	56°30.7	48°52.3	56°03.5	70°10.0	81°32.4	84°56.3
22	70°01.7	5.8'	24°36.0	8.9'	59.1'	92°47.8	61°54.3	55°55.4	48°17.0	56°38.4	70°42.2	82°05.2	85°29.3
23	84°26.6	5.7'	24°44.9	8.7'	59.1'	92°12.4	61°21.6	55°20.2	47°41.7	57°13.3	71°14.4	82°38.0	86°02.4
23 rd	SD = 16.1' Mer. pass. 17:09					Sun SD = 16.2'							

h	Moon (24 th Feb)					Lunar Distance (objects with largest hourly LD delta)								
Tue	GHA	ν	Dec	d	HP	-Regulus	-Procyon	-Pollux	-Jupiter	+Saturn	+Venus	+Sun	+Fomalhaut	
0	98°51.3	5.7'	N24°53.6	8.6'	59.1'	91°37.1	60°49.0	54°44.9	47°06.4	57°48.2	71°46.6	83°10.8	86°35.4	
1	113°16.0	5.6'	25°02.2	8.4'	59.1'	91°01.8	60°16.4	54°09.7	46°31.1	58°23.1	72°18.8	83°43.6	87°08.5	
2	127°40.6	5.5'	25°10.6	8.3'	59.1'	90°26.5	59°43.8	53°34.4	45°55.8	58°58.0	72°51.0	84°16.5	87°41.6	
3	142°05.0	5.4'	25°18.9	8.1'	59.1'	89°51.1	59°11.3	52°59.1	45°20.5	59°32.9	73°23.2	84°49.3	88°14.6	
4	156°29.4	5.3'	25°27.0	7.9'	59.1'	89°15.8	58°38.7	52°23.9	44°45.2	60°07.9	73°55.4	85°22.1	88°47.7	
5	170°53.7	5.2'	25°34.9	7.8'	59.1'	88°40.4	58°06.2	51°48.6	44°09.9	60°42.8	74°27.6	85°55.0	89°20.8	
6	185°18.0	5.1'	N25°42.7	7.6'	59.1'	88°05.1	57°33.8	51°13.3	43°34.7	61°17.7	74°59.8	86°27.8	89°53.9	
7	199°42.1	5.0'	25°50.3	7.4'	59.1'	87°29.8	57°01.4	50°38.0	42°59.4	61°52.7	75°32.0	87°00.6	90°27.0	
8	214°06.1	5.0'	25°57.8	7.3'	59.1'	86°54.4	56°29.0	50°02.8	42°24.1	62°27.6	76°04.2	87°33.5	91°00.0	
9	228°30.1	4.9'	26°05.0	7.1'	59.1'	86°19.1	55°56.6	49°27.5	41°48.8	63°02.5	76°36.4	88°06.3	91°33.1	
10	242°54.0	4.8'	26°12.1	6.9'	59.1'	85°43.7	55°24.3	48°52.2	41°13.5	63°37.5	77°08.7	88°39.2	92°06.2	
11	257°17.8	4.7'	26°19.1	6.8'	59.2'	85°08.4	54°52.0	48°17.0	40°38.2	64°12.4	77°40.9	89°12.0	92°39.3	
12	271°41.5	4.6'	N26°25.8	6.6'	59.2'	84°33.0	54°19.8	47°41.7	40°02.9	64°47.4	78°13.1	89°44.9	93°12.4	
13	286°05.2	4.6'	26°32.4	6.4'	59.2'	83°57.6	53°47.6	47°06.4	39°27.7	65°22.4	78°45.3	90°17.7	93°45.5	
14	300°28.7	4.5'	26°38.8	6.2'	59.2'	83°22.3	53°15.5	46°31.1	38°52.4	65°57.3	79°17.6	90°50.6	94°18.6	
15	314°52.2	4.4'	26°45.0	6.1'	59.2'	82°46.9	52°43.4	45°55.9	38°17.1	66°32.3	79°49.8	91°23.4	94°51.6	
16	329°15.7	4.4'	26°51.1	5.9'	59.2'	82°11.6	52°11.3	45°20.6	37°41.9	67°07.2	80°22.0	91°56.3	95°24.7	
17	343°39.0	4.3'	26°56.9	5.7'	59.2'	81°36.2	51°39.3	44°45.3	37°06.6	67°42.2	80°54.2	92°29.2	95°57.8	
18	358°02.3	4.2'	N27°02.6	5.5'	59.2'	81°00.8	51°07.4	44°10.0	36°31.4	68°17.2	81°26.5	93°02.0	96°30.9	
19	12°25.5	4.2'	27°08.1	5.3'	59.2'	80°25.5	50°35.5	43°34.8	35°56.1	68°52.1	81°58.7	93°34.9	97°04.0	
20	26°48.7	4.1'	27°13.5	5.1'	59.2'	79°50.1	50°03.6	42°59.5	35°20.9	69°27.1	82°30.9	94°07.7	97°37.0	
21	41°11.8	4.0'	27°18.6	5.0'	59.2'	79°14.7	49°31.9	42°24.2	34°45.6	70°02.1	83°03.2	94°40.6	98°10.1	
22	55°34.8	4.0'	27°23.6	4.8'	59.2'	78°39.4	49°00.1	41°49.0	34°10.4	70°37.1	83°35.4	95°13.5	98°43.1	
23	69°57.8	3.9'	27°28.4	4.6'	59.2'	78°04.0	48°28.5	41°13.7	33°35.2	71°12.0	84°07.6	95°46.3	99°16.2	
24 th	SD = 16.1' Mer. pass. 18:08					Sun SD = 16.2'								

h	Moon (25 th Feb)					Lunar Distance (objects with largest hourly LD delta)							
Wed	GHA	ν	Dec	d	HP	-Spica	-Regulus	-Pollux	-Jupiter	+Saturn	+Venus	+Sun	+Fomalhaut
0	84°20.7	3.9'	N27°33.0	4.4'	59.2'		77°28.6	40°38.4	33°00.0	71°47.0	84°39.9	96°19.2	99°49.2
1	98°43.6	3.8'	27°37.4	4.2'	59.2'		76°53.2	40°03.2	32°24.8	72°22.0	85°12.1	96°52.1	100°22.3
2	113°06.4	3.8'	27°41.6	4.0'	59.2'		76°17.9	39°27.9	31°49.6	72°57.0	85°44.3	97°24.9	100°55.3
3	127°29.2	3.7'	27°45.6	3.8'	59.2'		75°42.5	38°52.7	31°14.4	73°32.0	86°16.6	97°57.8	101°28.3
4	141°51.9	3.7'	27°49.4	3.7'	59.2'		75°07.1	38°17.4	30°39.2	74°06.9	86°48.8	98°30.7	102°01.3
5	156°14.6	3.6'	27°53.1	3.5'	59.2'		74°31.8	37°42.2	30°04.1	74°41.9	87°21.0	99°03.5	102°34.3
6	170°37.2	3.6'	N27°56.6	3.3'	59.2'		73°56.4	37°06.9	29°28.9	75°16.9	87°53.3	99°36.4	103°07.3
7	184°59.8	3.5'	27°59.8	3.1'	59.2'		73°21.0	36°31.7	28°53.8	75°51.9	88°25.5	100°09.3	103°40.3
8	199°22.3	3.5'	28°02.9	2.9'	59.2'		72°45.7	35°56.4	28°18.7	76°26.9	88°57.7	100°42.1	104°13.2
9	213°44.8	3.5'	28°05.8	2.7'	59.2'		72°10.3	35°21.2	27°43.6	77°01.8	89°30.0	101°15.0	104°46.2
10	228°07.3	3.4'	28°08.5	2.5'	59.2'		71°34.9	34°46.0	27°08.5	77°36.8	90°02.2	101°47.9	105°19.1
11	242°29.8	3.4'	28°11.0	2.3'	59.2'		70°59.5	34°10.7	26°33.4	78°11.8	90°34.4	102°20.7	105°52.0
12	256°52.2	3.4'	N28°13.3	2.1'	59.2'		70°24.2	33°35.5	25°58.3	78°46.8	91°06.7	102°53.6	106°24.9
13	271°14.6	3.4'	28°15.4	1.9'	59.1'		69°48.8	33°00.3	25°23.3	79°21.8	91°38.9	103°26.5	106°57.8
14	285°36.9	3.3'	28°17.3	1.7'	59.1'		69°13.4	32°25.1	24°48.3	79°56.7	92°11.1	103°59.3	107°30.7
15	299°59.3	3.3'	28°19.0	1.5'	59.1'		68°38.1	31°49.9	24°13.3	80°31.7	92°43.4	104°32.2	108°03.6
16	314°21.6	3.3'	28°20.5	1.3'	59.1'		68°02.7	31°14.7	23°38.3	81°06.7	93°15.6	105°05.1	108°36.4
17	328°43.9	3.3'	28°21.9	1.1'	59.1'		67°27.4	30°39.5	23°03.4	81°41.7	93°47.8	105°37.9	109°09.2
18	343°06.2	3.3'	N28°23.0	0.9'	59.1'		66°52.0	30°04.3	22°28.5	82°16.7	94°20.0	106°10.8	109°42.1
19	357°28.5	3.3'	28°23.9	0.7'	59.1'		66°16.6	29°29.1	21°53.6	82°51.6	94°52.3	106°43.6	110°14.8
20	11°50.8	3.3'	28°24.7	0.5'	59.1'	119°42.1	65°41.3	28°54.0	21°18.7	83°26.6	95°24.5	107°16.5	110°47.6
21	26°13.0	3.3'	28°25.2	0.3'	59.1'	119°06.8	65°05.9	28°18.8	20°43.9	84°01.6	95°56.7	107°49.4	111°20.3
22	40°35.3	3.3'	28°25.5	0.1'	59.1'	118°31.5	64°30.6	27°43.7	20°09.1	84°36.5	96°28.9	108°22.2	111°53.1
23	54°57.6	3.3'	28°25.7	-0.1'	59.1'	117°56.1	63°55.2	27°08.5	19°34.4	85°11.5	97°01.1	108°55.1	112°25.8
25 th	SD = 16.1' Mer. pass. 19:11					Sun SD = 16.2' at 0h: 16.1' at 23h							