

h	Moon (12 th Aug)					Lunar Distance (objects with largest hourly LD delta)							
Wed	GHA	ν	Dec	d	HP	+Pollux	+Procyon	+Mars	+Betelgeuse	+Capella	+Rigel	+Aldebaran	+Saturn
0	188°07.7	7.1'	N19°41.0	-12.9'	60.0'	16°28.6	22°08.3	38°58.5	43°35.4	50°17.7	59°27.8	59°35.6	114°54.0
1	202°33.8	7.2'	19°28.1	-13.0'	60.0'				New Moon				
2	217°00.0	7.3'	19°15.1	-13.1'	60.0'				New Moon				
3	231°26.3	7.4'	19°02.0	-13.2'	60.0'				New Moon				
4	245°52.8	7.6'	18°48.8	-13.3'	59.9'				New Moon				
5	260°19.3	7.7'	18°35.5	-13.4'	59.9'				New Moon				
6	274°46.0	7.8'	N18°22.1	-13.5'	59.9'				New Moon				
7	289°12.8	7.9'	18°08.6	-13.6'	59.9'				New Moon				
8	303°39.7	8.0'	17°54.9	-13.7'	59.9'				New Moon				
9	318°06.7	8.1'	17°41.2	-13.8'	59.9'				New Moon				
10	332°33.8	8.2'	17°27.4	-13.9'	59.8'				New Moon				
11	347°01.0	8.3'	17°13.5	-14.0'	59.8'				New Moon				
12	1°28.4	8.5'	N16°59.5	-14.1'	59.8'				New Moon				
13	15°55.8	8.6'	16°45.4	-14.2'	59.8'				New Moon				
14	30°23.4	8.7'	16°31.2	-14.3'	59.8'				New Moon				
15	44°51.1	8.8'	16°16.9	-14.4'	59.7'				New Moon				
16	59°18.8	8.9'	16°02.5	-14.4'	59.7'				New Moon				
17	73°46.7	9.0'	15°48.1	-14.5'	59.7'				New Moon				
18	88°14.7	9.1'	N15°33.6	-14.6'	59.7'				New Moon				
19	102°42.8	9.2'	15°19.0	-14.7'	59.6'				New Moon				
20	117°11.0	9.3'	15°04.3	-14.8'	59.6'				New Moon				
21	131°39.3	9.4'	14°49.5	-14.8'	59.6'				New Moon				
22	146°07.8	9.5'	14°34.7	-14.9'	59.6'				New Moon				
23	160°36.3	9.6'	14°19.8	-15.0'	59.6'	New Moon							
12 th	SD = 16.4' Mer. pass. 11:54												

h Moon (13 th Aug)						Lunar Distance (objects with largest hourly LD delta)						
Thu	GHA	ν	Dec	d	HP	-Antares	-Rigel Kent.	-Hadar	-Acrux	-Arcturus	-Spica	-Venus
0	175°04.9	9.7'	N14°04.9	-15.0'	59.5'				New Moon			
1	189°33.6	9.8'	13°49.8	-15.1'	59.5'				New Moon			
2	204°02.4	9.9'	13°34.7	-15.2'	59.5'				New Moon			
3	218°31.4	10.0'	13°19.6	-15.2'	59.5'				New Moon			
4	233°00.4	10.1'	13°04.4	-15.3'	59.4'				New Moon			
5	247°29.5	10.2'	12°49.1	-15.3'	59.4'				New Moon			
6	261°58.7	10.3'	N12°33.8	-15.4'	59.4'				New Moon			
7	276°28.0	10.4'	12°18.4	-15.4'	59.4'				New Moon			
8	290°57.4	10.5'	12°02.9	-15.5'	59.3'				New Moon			
9	305°26.9	10.6'	11°47.4	-15.5'	59.3'				New Moon			
10	319°56.5	10.7'	11°31.9	-15.6'	59.3'				New Moon			
11	334°26.2	10.8'	11°16.3	-15.6'	59.3'				New Moon			
12	348°56.0	10.9'	N11°00.7	-15.7'	59.2'	99°05.7	89°03.0	85°01.1	78°42.9	59°23.6	53°13.8	35°38.8
13	3°25.9	11.0'	10°45.0	-15.7'	59.2'	98°30.0	88°34.7	84°33.5	78°19.6	58°57.0	52°38.2	35°05.6
14	17°55.8	11.0'	10°29.3	-15.8'	59.2'	97°54.4	88°06.3	84°05.8	77°56.4	58°30.6	52°02.6	34°32.5
15	32°25.8	11.1'	10°13.5	-15.8'	59.1'	97°18.9	87°38.1	83°38.2	77°33.2	58°04.3	51°27.1	33°59.4
16	46°56.0	11.2'	09°57.8	-15.8'	59.1'	96°43.3	87°09.8	83°10.7	77°10.1	57°38.2	50°51.6	33°26.4
17	61°26.2	11.3'	09°41.9	-15.9'	59.1'	96°07.8	86°41.6	82°43.2	76°47.0	57°12.2	50°16.2	32°53.4
18	75°56.5	11.4'	N09°26.1	-15.9'	59.1'	95°32.4	86°13.5	82°15.8	76°24.1	56°46.3	49°40.7	32°20.4
19	90°26.8	11.5'	09°10.2	-15.9'	59.0'	94°56.9	85°45.3	81°48.4	76°01.2	56°20.5	49°05.4	31°47.5
20	104°57.3	11.5'	08°54.2	-16.0'	59.0'	94°21.5	85°17.2	81°21.0	75°38.3	55°54.9	48°30.0	31°14.6
21	119°27.8	11.6'	08°38.3	-16.0'	59.0'	93°46.2	84°49.2	80°53.7	75°15.6	55°29.5	47°54.7	30°41.7
22	133°58.4	11.7'	08°22.3	-16.0'	58.9'	93°10.8	84°21.2	80°26.5	74°52.9	55°04.2	47°19.4	30°08.9
23	148°29.1	11.8'	08°06.3	-16.0'	58.9'	92°35.6	83°53.2	79°59.3	74°30.3	54°39.0	46°44.2	29°36.1
13 th	SD = 16.2' Mer. pass. 12:46											

h Moon (14 th Aug)						Lunar Distance (objects with largest hourly LD delta)						
Fri	GHA	ν	Dec	d	HP	-Antares	-Rigel Kent.	-Hadar	-Acrux	-Arcturus	-Spica	-Venus
0	162°59.9	11.8'	N07°50.3	-16.1'	58.9'	92°00.3	83°25.3	79°32.1	74°07.8	54°14.0	46°09.0	29°03.4
1	177°30.7	11.9'	07°34.2	-16.1'	58.8'	91°25.1	82°57.4	79°05.0	73°45.4	53°49.1	45°33.8	28°30.7
2	192°01.7	12.0'	07°18.2	-16.1'	58.8'	90°49.9	82°29.5	78°38.0	73°23.1	53°24.4	44°58.7	27°58.0
3	206°32.6	12.1'	07°02.1	-16.1'	58.8'	90°14.8	82°01.8	78°11.0	73°00.9	52°59.9	44°23.6	27°25.4
4	221°03.7	12.1'	06°46.0	-16.1'	58.7'	89°39.7	81°34.0	77°44.1	72°38.7	52°35.6	43°48.6	26°52.8
5	235°34.8	12.2'	06°29.8	-16.1'	58.7'	89°04.7	81°06.3	77°17.3	72°16.7	52°11.4	43°13.6	26°20.3
6	250°06.0	12.3'	N06°13.7	-16.2'	58.7'	88°29.7	80°38.7	76°50.5	71°54.7	51°47.3	42°38.6	25°47.8
7	264°37.3	12.3'	05°57.5	-16.2'	58.7'	87°54.7	80°11.1	76°23.8	71°32.8	51°23.5	42°03.7	25°15.3
8	279°08.6	12.4'	05°41.4	-16.2'	58.6'	87°19.7	79°43.6	75°57.1	71°11.1	50°59.8	41°28.8	24°42.9
9	293°40.0	12.5'	05°25.2	-16.2'	58.6'	86°44.8	79°16.1	75°30.5	70°49.4	50°36.4	40°54.0	24°10.5
10	308°11.5	12.5'	05°09.0	-16.2'	58.6'	86°10.0	78°48.7	75°04.0	70°27.8	50°13.1	40°19.2	23°38.2
11	322°43.0	12.6'	04°52.8	-16.2'	58.5'	85°35.2	78°21.4	74°37.6	70°06.4	49°50.0	39°44.5	23°05.9
12	337°14.6	12.6'	N04°36.7	-16.2'	58.5'	85°00.4	77°54.1	74°11.2	69°45.0	49°27.1	39°09.8	22°33.7
13	351°46.2	12.7'	04°20.5	-16.2'	58.5'	84°25.7	77°26.9	73°44.9	69°23.7	49°04.3	38°35.1	22°01.5
14	6°17.9	12.8'	04°04.3	-16.2'	58.4'	83°51.0	76°59.7	73°18.7	69°02.6	48°41.8	38°00.5	21°29.3
15	20°49.7	12.8'	03°48.1	-16.2'	58.4'	83°16.3	76°32.6	72°52.5	68°41.6	48°19.5	37°25.9	20°57.2
16	35°21.5	12.9'	03°31.9	-16.2'	58.4'	82°41.7	76°05.5	72°26.5	68°20.6	47°57.4	36°51.3	20°25.2
17	49°53.4	12.9'	03°15.7	-16.2'	58.3'	82°07.2	75°38.6	72°00.5	67°59.8	47°35.6	36°16.9	19°53.2
18	64°25.3	13.0'	N02°59.5	-16.2'	58.3'	81°32.6	75°11.7	71°34.6	67°39.1	47°13.9	35°42.4	19°21.2
19	78°57.3	13.0'	02°43.3	-16.2'	58.3'	80°58.2	74°44.8	71°08.7	67°18.5	46°52.5	35°08.0	18°49.3
20	93°29.3	13.1'	02°27.1	-16.2'	58.2'	80°23.7	74°18.0	70°43.0	66°58.1	46°31.3	34°33.6	18°17.4
21	108°01.4	13.1'	02°11.0	-16.2'	58.2'	79°49.3	73°51.3	70°17.3	66°37.7	46°10.3	33°59.3	17°45.6
22	122°33.5	13.2'	01°54.8	-16.1'	58.2'	79°15.0	73°24.7	69°51.8	66°17.5	45°49.5	33°25.0	17°13.9
23	137°05.7	13.2'	01°38.7	-16.1'	58.1'	78°40.7	72°58.2	69°26.3	65°57.4	45°29.0	32°50.8	16°42.2
14 th	SD = 16.1' Mer. pass. 13:34											

h	Moon (15 th Aug)					Lunar Distance (objects with largest hourly LD delta)							
Sat	GHA	ν	Dec	d	HP	-Altair	-Antares	-Rigel Kent.	-Hadar	-Arcturus	-Spica	-Venus	+Sun
0	151°37.9	13.3'	N01°22.5	-16.1'	58.1'		78°06.4	72°31.7	69°00.9	45°08.7	32°16.6	16°10.5	
1	166°10.1	13.3'	01°06.4	-16.1'	58.1'		77°32.2	72°05.3	68°35.6	44°48.7	31°42.5	15°38.9	
2	180°42.4	13.3'	00°50.3	-16.1'	58.0'		76°58.0	71°39.0	68°10.4	44°28.9	31°08.4	15°07.4	
3	195°14.8	13.4'	00°34.2	-16.1'	58.0'		76°23.8	71°12.7	67°45.2	44°09.4	30°34.4	14°35.9	
4	209°47.2	13.4'	00°18.2	-16.1'	57.9'		75°49.7	70°46.6	67°20.2	43°50.2	30°00.4	14°04.5	
5	224°19.6	13.5'	N00°02.1	-16.0'	57.9'		75°15.7	70°20.5	66°55.3	43°31.2	29°26.4	13°33.1	
6	238°52.1	13.5'	S00°13.9	-16.0'	57.9'		74°41.7	69°54.5	66°30.5	43°12.5	28°52.5	13°01.8	
7	253°24.6	13.5'	00°29.9	-16.0'	57.8'		74°07.7	69°28.6	66°05.7	42°54.0	28°18.6	12°30.6	
8	267°57.1	13.6'	00°45.9	-16.0'	57.8'		73°33.8	69°02.7	65°41.1	42°35.9	27°44.8	11°59.5	
9	282°29.7	13.6'	01°01.9	-15.9'	57.8'		72°59.9	68°37.0	65°16.6	42°18.0	27°11.1	11°28.4	
10	297°02.3	13.6'	01°17.8	-15.9'	57.7'		72°26.0	68°11.3	64°52.2	42°00.4	26°37.4	10°57.4	
11	311°34.9	13.7'	01°33.7	-15.9'	57.7'		71°52.2	67°45.8	64°27.8	41°43.1	26°03.7	10°26.5	
12	326°07.6	13.7'	S01°49.6	-15.9'	57.7'		71°18.5	67°20.3	64°03.6	41°26.1	25°30.1	9°55.7	
13	340°40.3	13.7'	02°05.5	-15.8'	57.6'	119°42.0	70°44.8	66°54.9	63°39.5	41°09.4	24°56.5	9°24.9	
14	355°13.0	13.8'	02°21.3	-15.8'	57.6'	119°15.1	70°11.1	66°29.6	63°15.6	40°53.0	24°23.0	8°54.3	
15	9°45.8	13.8'	02°37.1	-15.8'	57.6'	118°48.2	69°37.5	66°04.4	62°51.7	40°37.0	23°49.5	8°23.8	
16	24°18.5	13.8'	02°52.9	-15.7'	57.5'	118°21.3	69°03.9	65°39.3	62°27.9	40°21.2	23°16.1	7°53.5	
17	38°51.3	13.8'	03°08.6	-15.7'	57.5'	117°54.4	68°30.4	65°14.4	62°04.3	40°05.8	22°42.7	7°23.3	
18	53°24.2	13.8'	S03°24.3	-15.7'	57.5'	117°27.4	67°56.9	64°49.5	61°40.8	39°50.7	22°09.4	6°53.2	
19	67°57.0	13.9'	03°39.9	-15.6'	57.4'	117°00.4	67°23.4	64°24.7	61°17.4		21°36.1	6°23.4	
20	82°29.9	13.9'	03°55.6	-15.6'	57.4'	116°33.3	66°50.0	64°00.0	60°54.1		21°02.9	5°53.8	40°14.3
21	97°02.8	13.9'	04°11.2	-15.5'	57.4'	116°06.3	66°16.7	63°35.4	60°30.9		20°29.8	5°24.6	40°45.2
22	111°35.7	13.9'	04°26.7	-15.5'	57.3'	115°39.2	65°43.4	63°10.9	60°07.9		19°56.7	4°55.7	41°16.2
23	126°08.6	13.9'	04°42.2	-15.5'	57.3'	115°12.1	65°10.1	62°46.5	59°45.0		19°23.6	4°27.3	41°47.0
15 th	SD = 15.8' Mer. pass. 14:20					Sun SD = 15.8'							

h	Moon (16 th Aug)					Lunar Distance (objects with largest hourly LD delta)							
Sun	GHA	ν	Dec	d	HP	-Altair	-Antares	-Rigel Kent.	-Hadar	$\pm$ Acrux	-Spica	$\pm$ Venus	+Sun
0	140°41.6	14.0'	S04°57.7	-15.4'	57.2'	114°45.0	64°36.8	62°22.2	59°22.2	58°20.3	18°50.6	3°59.6	42°17.9
1	155°14.5	14.0'	05°13.1	-15.4'	57.2'	114°17.9	64°03.7	61°58.1	58°59.5	58°04.1	18°17.7	3°32.8	42°48.7
2	169°47.5	14.0'	05°28.5	-15.3'	57.2'	113°50.8	63°30.5	61°34.0	58°37.0	57°48.0	17°44.8		43°19.4
3	184°20.5	14.0'	05°43.8	-15.3'	57.1'	113°23.6	62°57.4	61°10.1	58°14.7	57°32.1	17°12.0		43°50.1
4	198°53.5	14.0'	05°59.1	-15.2'	57.1'	112°56.5	62°24.4	60°46.3	57°52.4	57°16.4	16°39.2		44°20.8
5	213°26.5	14.0'	06°14.4	-15.2'	57.1'	112°29.3	61°51.3	60°22.6	57°30.3	57°00.9	16°06.5		44°51.4
6	227°59.5	14.0'	S06°29.6	-15.2'	57.0'	112°02.2	61°18.4	59°59.0	57°08.3	56°45.5	15°33.9		45°22.0
7	242°32.5	14.0'	06°44.7	-15.1'	57.0'	111°35.0	60°45.4	59°35.5	56°46.5	56°30.3	15°01.3		45°52.5
8	257°05.6	14.0'	06°59.8	-15.1'	57.0'	111°07.8	60°12.6	59°12.2	56°24.8		14°28.8		46°23.0
9	271°38.6	14.0'	07°14.9	-15.0'	56.9'	110°40.6	59°39.7	58°49.0	56°03.3		13°56.4		46°53.4
10	286°11.7	14.1'	07°29.9	-15.0'	56.9'	110°13.5	59°06.9	58°25.9	55°41.9		13°24.0		47°23.8
11	300°44.7	14.1'	07°44.8	-14.9'	56.9'	109°46.3	58°34.1	58°02.9	55°20.7		12°51.7		47°54.2
12	315°17.8	14.1'	S07°59.7	-14.8'	56.8'	109°19.1	58°01.4	57°40.1	54°59.6		12°19.6		48°24.5
13	329°50.8	14.1'	08°14.6	-14.8'	56.8'	108°51.9	57°28.8	57°17.4	54°38.7		11°47.4		48°54.8
14	344°23.9	14.1'	08°29.3	-14.7'	56.8'	108°24.7	56°56.1	56°54.8	54°17.9		11°15.4		49°25.1
15	358°56.9	14.1'	08°44.1	-14.7'	56.7'	107°57.6	56°23.5	56°32.4	53°57.3		10°43.5	4°28.7	49°55.2
16	13°30.0	14.1'	08°58.8	-14.6'	56.7'	107°30.4	55°51.0	56°10.1	53°36.9		10°11.8	4°56.5	50°25.4
17	28°03.1	14.1'	09°13.4	-14.6'	56.7'	107°03.2	55°18.5	55°47.9	53°16.6		9°40.1	5°24.6	50°55.5
18	42°36.1	14.0'	S09°27.9	-14.5'	56.6'	106°36.1	54°46.0	55°25.9	52°56.5		9°08.6	5°53.0	51°25.6
19	57°09.2	14.0'	09°42.4	-14.4'	56.6'	106°08.9	54°13.6	55°04.0	52°36.5		8°37.2	6°21.7	51°55.6
20	71°42.2	14.0'	09°56.9	-14.4'	56.6'	105°41.8	53°41.2	54°42.2	52°16.7		8°06.0	6°50.5	52°25.6
21	86°15.2	14.0'	10°11.3	-14.3'	56.5'	105°14.6	53°08.9	54°20.7	51°57.1		7°35.0	7°19.4	52°55.6
22	100°48.3	14.0'	10°25.6	-14.3'	56.5'	104°47.5	52°36.6	53°59.2	51°37.7		7°04.3	7°48.4	53°25.5
23	115°21.3	14.0'	10°39.8	-14.2'	56.5'	104°20.4	52°04.3	53°37.9	51°18.5		6°33.8	8°17.5	53°55.3
16 th	SD = 15.6' Mer. pass. 15:04					Sun SD = 15.8'							

Moon (17 th Aug)						Lunar Distance (objects with largest hourly LD delta)							
Mon	GHA	ν	Dec	d	HP	-Fomalhaut	-Altair	-Rigel Kent.	-Antares	-Hadar	$\pm$ Spica	+Venus	+Sun
0	129°54.3	14.0'	S10°54.0	-14.1'	56.4'		103°53.3	53°16.8	51°32.1	50°59.4	6°03.7	8°46.6	54°25.2
1	144°27.3	14.0'	11°08.2	-14.1'	56.4'		103°26.2	52°55.8	50°59.9	50°40.5	5°34.0	9°15.8	54°54.9
2	159°00.3	14.0'	11°22.2	-14.0'	56.4'		102°59.1	52°35.0	50°27.7	50°21.8	5°04.8	9°45.0	55°24.7
3	173°33.3	14.0'	11°36.2	-13.9'	56.3'		102°32.1	52°14.3	49°55.6	50°03.3	4°36.4	10°14.2	55°54.4
4	188°06.2	14.0'	11°50.1	-13.9'	56.3'		102°05.0	51°53.8	49°23.6	49°45.0	4°08.8	10°43.4	56°24.1
5	202°39.2	13.9'	12°04.0	-13.8'	56.3'		101°38.0	51°33.5	48°51.6	49°26.8		11°12.7	56°53.7
6	217°12.1	13.9'	S12°17.8	-13.7'	56.2'		101°11.0	51°13.3	48°19.6	49°08.9		11°41.9	57°23.3
7	231°45.1	13.9'	12°31.5	-13.7'	56.2'		100°44.0	50°53.3	47°47.6	48°51.2		12°11.1	57°52.8
8	246°18.0	13.9'	12°45.2	-13.6'	56.2'		100°17.0	50°33.4	47°15.7	48°33.6		12°40.3	58°22.3
9	260°50.9	13.9'	12°58.8	-13.5'	56.1'		99°50.0	50°13.8	46°43.9	48°16.3		13°09.5	58°51.8
10	275°23.7	13.9'	13°12.3	-13.4'	56.1'		99°23.0	49°54.3	46°12.0	47°59.2		13°38.7	59°21.3
11	289°56.6	13.8'	13°25.7	-13.4'	56.1'		98°56.1	49°35.0	45°40.2	47°42.3		14°07.8	59°50.7
12	304°29.4	13.8'	S13°39.1	-13.3'	56.0'		98°29.2	49°15.9	45°08.5	47°25.6		14°37.0	60°20.0
13	319°02.2	13.8'	13°52.4	-13.2'	56.0'		98°02.3	48°56.9	44°36.8	47°09.1		15°06.1	60°49.3
14	333°35.0	13.8'	14°05.6	-13.1'	56.0'		97°35.4	48°38.2	44°05.1	46°52.8		15°35.2	61°18.6
15	348°07.8	13.7'	14°18.7	-13.1'	55.9'		97°08.6	48°19.6	43°33.5	46°36.8		16°04.2	61°47.9
16	2°40.5	13.7'	14°31.8	-13.0'	55.9'		96°41.7	48°01.2	43°01.8	46°21.0		16°33.3	62°17.1
17	17°13.2	13.7'	14°44.7	-12.9'	55.9'		96°14.9	47°43.1	42°30.3	46°05.4		17°02.3	62°46.3
18	31°45.9	13.7'	S14°57.7	-12.8'	55.9'		95°48.1	47°25.1	41°58.7	45°50.0		17°31.3	63°15.4
19	46°18.6	13.6'	15°10.5	-12.7'	55.8'		95°21.4	47°07.3	41°27.3	45°34.9	4°58.7	18°00.3	63°44.5
20	60°51.3	13.6'	15°23.2	-12.7'	55.8'		94°54.6	46°49.7	40°55.8		5°27.1	18°29.2	64°13.6
21	75°23.9	13.6'	15°35.9	-12.6'	55.8'	119°59.4	94°27.9	46°32.4	40°24.4		5°56.0	18°58.2	64°42.6
22	89°56.5	13.6'	15°48.5	-12.5'	55.7'	119°31.0	94°01.2	46°15.2	39°53.0		6°25.2	19°27.0	65°11.6
23	104°29.0	13.5'	16°01.0	-12.4'	55.7'	119°02.5	93°34.5	45°58.3	39°21.6		6°54.7	19°55.9	65°40.6
17 th	SD = 15.4' Mer. pass. 15:49					Sun SD = 15.8'							

h	Moon (18 th Aug)					Lunar Distance (objects with largest hourly LD delta)						
Tue	GHA	ν	Dec	d	HP	-Fomalhaut	-Altair	-Rigel Kent.	-Antares	+Spica	+Venus	+Sun
0	119°01.6	13.5'	S16°13.4	-12.3'	55.7'	118°34.0	93°07.9	45°41.5	38°50.3	7°24.5	20°24.7	66°09.5
1	133°34.1	13.5'	16°25.7	-12.3'	55.6'	118°05.6	92°41.3	45°25.0	38°19.0	7°54.4	20°53.6	66°38.4
2	148°06.5	13.4'	16°38.0	-12.2'	55.6'	117°37.1	92°14.7	45°08.7	37°47.8	8°24.4	21°22.3	67°07.2
3	162°39.0	13.4'	16°50.2	-12.1'	55.6'	117°08.7	91°48.1	44°52.6	37°16.6	8°54.6	21°51.1	67°36.1
4	177°11.4	13.4'	17°02.2	-12.0'	55.6'	116°40.2	91°21.5	44°36.8	36°45.4	9°24.8	22°19.8	68°04.9
5	191°43.7	13.3'	17°14.2	-11.9'	55.5'	116°11.8	90°55.0	44°21.2	36°14.2	9°55.1	22°48.5	68°33.6
6	206°16.1	13.3'	S17°26.1	-11.8'	55.5'	115°43.3	90°28.5	44°05.8	35°43.1	10°25.5	23°17.2	69°02.3
7	220°48.4	13.3'	17°38.0	-11.7'	55.5'	115°14.9	90°02.1	43°50.7	35°12.0	10°55.9	23°45.8	69°31.0
8	235°20.7	13.2'	17°49.7	-11.6'	55.5'	114°46.5	89°35.6		34°41.0	11°26.3	24°14.4	69°59.7
9	249°52.9	13.2'	18°01.3	-11.6'	55.4'	114°18.1	89°09.2		34°10.0	11°56.7	24°43.0	70°28.3
10	264°25.1	13.2'	18°12.9	-11.5'	55.4'	113°49.7	88°42.8		33°39.0	12°27.2	25°11.6	70°56.9
11	278°57.3	13.1'	18°24.3	-11.4'	55.4'	113°21.3	88°16.5		33°08.0	12°57.7	25°40.1	71°25.5
12	293°29.4	13.1'	S18°35.7	-11.3'	55.3'	112°52.9	87°50.1		32°37.1	13°28.1	26°08.6	71°54.0
13	308°01.5	13.1'	18°47.0	-11.2'	55.3'	112°24.6	87°23.8		32°06.2	13°58.6	26°37.1	72°22.5
14	322°33.6	13.0'	18°58.2	-11.1'	55.3'	111°56.2	86°57.6		31°35.3	14°29.1	27°05.5	72°51.0
15	337°05.6	13.0'	19°09.3	-11.0'	55.3'	111°27.8	86°31.3		31°04.5	14°59.6	27°34.0	73°19.4
16	351°37.6	12.9'	19°20.3	-10.9'	55.2'	110°59.5	86°05.1		30°33.7	15°30.0	28°02.4	73°47.9
17	6°09.5	12.9'	19°31.2	-10.8'	55.2'	110°31.2	85°38.9		30°02.9	16°00.5	28°30.7	74°16.2
18	20°41.4	12.9'	S19°42.0	-10.7'	55.2'	110°02.9	85°12.8		29°32.2	16°30.9	28°59.1	74°44.6
19	35°13.3	12.8'	19°52.7	-10.6'	55.2'	109°34.5	84°46.7		29°01.5	17°01.4	29°27.4	75°12.9
20	49°45.1	12.8'	20°03.3	-10.5'	55.1'	109°06.3	84°20.6		28°30.8	17°31.8	29°55.7	75°41.2
21	64°16.9	12.7'	20°13.8	-10.4'	55.1'	108°38.0	83°54.5		28°00.1	18°02.2	30°23.9	76°09.5
22	78°48.6	12.7'	20°24.2	-10.3'	55.1'	108°09.7	83°28.5		27°29.5	18°32.6	30°52.2	76°37.7
23	93°20.3	12.7'	20°34.5	-10.2'	55.1'	107°41.4	83°02.5		26°58.9	19°03.0	31°20.4	77°06.0
18 th	SD = 15.2' Mer. pass. 16:35					Sun SD = 15.8'						

h	Moon (19 th Aug)					Lunar Distance (objects with largest hourly LD delta)						
Wed	GHA	ν	Dec	d	HP	-Fomalhaut	-Altair	-Antares	+Spica	+Venus	+Arcturus	+Sun
0	107°51.9	12.6'	S20°44.7	-10.1'	55.1'	107°13.2	82°36.6	26°28.3	19°33.4	31°48.6		77°34.1
1	122°23.6	12.6'	20°54.9	-10.0'	55.0'	106°45.0	82°10.6	25°57.7	20°03.7	32°16.8		78°02.3
2	136°55.1	12.5'	21°04.9	-9.9'	55.0'	106°16.7	81°44.7	25°27.2	20°34.1	32°44.9		78°30.4
3	151°26.7	12.5'	21°14.8	-9.8'	55.0'	105°48.5	81°18.9	24°56.7	21°04.4	33°13.0		78°58.5
4	165°58.1	12.4'	21°24.6	-9.7'	55.0'	105°20.3	80°53.1	24°26.3	21°34.7	33°41.1		79°26.6
5	180°29.6	12.4'	21°34.3	-9.6'	54.9'	104°52.1	80°27.3	23°55.8	22°05.0	34°09.2	41°20.3	79°54.7
6	195°01.0	12.4'	S21°43.9	-9.5'	54.9'	104°24.0	80°01.5	23°25.4	22°35.3	34°37.2	41°35.5	80°22.7
7	209°32.3	12.3'	21°53.4	-9.4'	54.9'	103°55.8	79°35.8	22°55.0	23°05.5	35°05.3	41°51.0	80°50.7
8	224°03.6	12.3'	22°02.8	-9.3'	54.9'	103°27.7	79°10.1	22°24.6	23°35.7	35°33.3	42°06.6	81°18.7
9	238°34.9	12.2'	22°12.1	-9.2'	54.9'	102°59.5	78°44.4	21°54.3	24°06.0	36°01.3	42°22.5	81°46.7
10	253°06.1	12.2'	22°21.3	-9.1'	54.8'	102°31.4	78°18.8	21°24.0	24°36.2	36°29.2	42°38.5	82°14.6
11	267°37.3	12.1'	22°30.4	-9.0'	54.8'	102°03.3	77°53.2	20°53.7	25°06.3	36°57.2	42°54.8	82°42.5
12	282°08.4	12.1'	S22°39.3	-8.9'	54.8'	101°35.2	77°27.7	20°23.4	25°36.5	37°25.1	43°11.2	83°10.4
13	296°39.5	12.0'	22°48.2	-8.8'	54.8'	101°07.1	77°02.2	19°53.2	26°06.6	37°53.0	43°27.8	83°38.3
14	311°10.6	12.0'	22°56.9	-8.6'	54.8'	100°39.1	76°36.7	19°22.9	26°36.8	38°20.8	43°44.6	84°06.1
15	325°41.6	12.0'	23°05.6	-8.5'	54.7'	100°11.0	76°11.3	18°52.7	27°06.9	38°48.7	44°01.6	84°34.0
16	340°12.5	11.9'	23°14.1	-8.4'	54.7'	99°43.0	75°45.9	18°22.5	27°37.0	39°16.5	44°18.8	85°01.8
17	354°43.4	11.9'	23°22.5	-8.3'	54.7'	99°14.9	75°20.5	17°52.4	28°07.0	39°44.4	44°36.1	85°29.5
18	9°14.3	11.8'	S23°30.8	-8.2'	54.7'	98°46.9	74°55.2	17°22.2	28°37.1	40°12.1	44°53.6	85°57.3
19	23°45.1	11.8'	23°39.0	-8.1'	54.7'	98°18.9	74°29.9	16°52.1	29°07.1	40°39.9	45°11.3	86°25.0
20	38°15.9	11.7'	23°47.1	-8.0'	54.6'	97°50.9	74°04.6	16°22.0	29°37.1	41°07.7	45°29.1	86°52.8
21	52°46.6	11.7'	23°55.1	-7.9'	54.6'	97°23.0	73°39.4	15°52.0	30°07.2	41°35.4	45°47.1	87°20.5
22	67°17.3	11.6'	24°02.9	-7.7'	54.6'	96°55.0	73°14.2	15°21.9	30°37.1	42°03.2	46°05.2	87°48.1
23	81°48.0	11.6'	24°10.7	-7.6'	54.6'	96°27.1	72°49.1	14°51.9	31°07.1	42°30.9	46°23.5	88°15.8
19 th	SD = 15.0' Mer. pass. 17:22					Sun SD = 15.8'						

Moon (20 th Aug)						Lunar Distance (objects with largest hourly LD delta)							
Thu	GHA	ν	Dec	d	HP	-Deneb	-Fomalhaut	-Altair	-Antares	+Spica	+Venus	+Arcturus	+Sun
0	96°18.6	11.6'	S24°18.3	-7.5'	54.6'		95°59.1	72°24.0	14°21.9	31°37.1	42°58.6	46°41.9	88°43.5
1	110°49.1	11.5'	24°25.8	-7.4'	54.6'		95°31.2	71°59.0	13°51.9	32°07.0	43°26.2	47°00.5	89°11.1
2	125°19.6	11.5'	24°33.2	-7.3'	54.5'		95°03.3	71°33.9	13°21.9	32°36.9	43°53.9	47°19.2	89°38.7
3	139°50.1	11.4'	24°40.5	-7.2'	54.5'		94°35.4	71°09.0	12°51.9	33°06.8	44°21.5	47°38.0	90°06.3
4	154°20.5	11.4'	24°47.7	-7.0'	54.5'		94°07.5	70°44.0	12°22.0	33°36.7	44°49.2	47°57.0	90°33.9
5	168°50.9	11.3'	24°54.7	-6.9'	54.5'		93°39.6	70°19.2	11°52.1	34°06.6	45°16.8	48°16.1	91°01.4
6	183°21.2	11.3'	S25°01.6	-6.8'	54.5'		93°11.8	69°54.3	11°22.2	34°36.5	45°44.4	48°35.4	91°28.9
7	197°51.5	11.3'	25°08.4	-6.7'	54.5'	97°48.4	92°43.9	69°29.5	10°52.3	35°06.3	46°11.9	48°54.7	91°56.5
8	212°21.8	11.2'	25°15.1	-6.6'	54.5'	97°33.4	92°16.1	69°04.8	10°22.5	35°36.2	46°39.5	49°14.2	92°24.0
9	226°52.0	11.2'	25°21.7	-6.4'	54.4'	97°18.3	91°48.3	68°40.0	9°52.6	36°06.0	47°07.1	49°33.8	92°51.5
10	241°22.2	11.1'	25°28.1	-6.3'	54.4'	97°03.3	91°20.5	68°15.4	9°22.8	36°35.8	47°34.6	49°53.5	93°19.0
11	255°52.3	11.1'	25°34.5	-6.2'	54.4'	96°48.2	90°52.7	67°50.7	8°53.0	37°05.6	48°02.1	50°13.3	93°46.4
12	270°22.4	11.0'	S25°40.7	-6.1'	54.4'	96°33.1	90°24.9	67°26.2	8°23.3	37°35.4	48°29.6	50°33.3	94°13.9
13	284°52.4	11.0'	25°46.8	-6.0'	54.4'	96°18.0	89°57.2	67°01.6	7°53.5	38°05.2	48°57.1	50°53.3	94°41.3
14	299°22.4	11.0'	25°52.7	-5.8'	54.4'	96°02.9	89°29.4	66°37.1	7°23.8	38°34.9	49°24.6	51°13.5	95°08.7
15	313°52.4	10.9'	25°58.6	-5.7'	54.4'	95°47.7	89°01.7	66°12.7	6°54.1	39°04.7	49°52.1	51°33.7	95°36.1
16	328°22.3	10.9'	26°04.3	-5.6'	54.4'	95°32.6	88°33.9	65°48.3	6°24.5	39°34.4	50°19.6	51°54.1	96°03.5
17	342°52.2	10.8'	26°09.9	-5.5'	54.3'	95°17.4	88°06.2	65°24.0	5°54.8	40°04.1	50°47.0	52°14.5	96°30.9
18	357°22.0	10.8'	S26°15.3	-5.3'	54.3'	95°02.2	87°38.5	64°59.7	5°25.2	40°33.9	51°14.5	52°35.1	96°58.3
19	11°51.8	10.8'	26°20.7	-5.2'	54.3'	94°47.0	87°10.8	64°35.4	4°55.7	41°03.6	51°41.9	52°55.7	97°25.7
20	26°21.6	10.7'	26°25.9	-5.1'	54.3'	94°31.8	86°43.1	64°11.2	4°26.2	41°33.3	52°09.3	53°16.4	97°53.0
21	40°51.3	10.7'	26°31.0	-5.0'	54.3'	94°16.6	86°15.5	63°47.1	3°56.8	42°02.9	52°36.7	53°37.3	98°20.3
22	55°21.0	10.7'	26°35.9	-4.8'	54.3'	94°01.4	85°47.8	63°23.0	3°27.5	42°32.6	53°04.1	53°58.2	98°47.7
23	69°50.7	10.6'	26°40.8	-4.7'	54.3'	93°46.2	85°20.2	62°59.0	2°58.4	43°02.3	53°31.5	54°19.2	99°15.0
20 th	SD = 14.9' Mer. pass. 18:11					Sun SD = 15.8'							

