

DUT1 = UT1-UTC = +0.0147 sec ΔT = TT-UT1 = +69.1693 sec

2026 August 03 to Aug. 05 UT

h		Moon (3 rd Aug)				Lunar Distance (objects with largest hourly LD delta)									
Mon	GHA	ν	Dec	d	HP	-Procyon	-Pollux	-Mars	-Aldebaran	+Fomalhaut	+Altair	+Antares	+Rigel Kent.		
0	315°00.8	14.5°	N03°17.6	15.3°	56.9°	114°07.0	111°12.4	82°34.7	68°44.1	36°05.7	62°23.1	111°50.6	115°00.6		
1	325°34.2	14.4°	03°33.0	15.3°	56.9°	113°36.4	110°39.7	82°03.7	68°11.9	36°31.5	62°49.5	112°23.4	115°24.9		
2	340°07.6	14.4°	03°48.3	15.3°	56.9°	113°05.7	110°07.0	81°32.7	67°39.8	36°57.5	63°16.1	112°56.1	115°49.2		
3	354°41.0	14.3°	04°03.6	15.3°	56.9°	112°35.0	109°34.3	81°01.7	67°07.7	37°23.6	63°42.6	113°28.9	116°13.4		
4	9°14.4	14.3°	04°18.9	15.3°	56.9°	112°04.3	109°01.5	80°30.7	66°35.5	37°49.9	64°09.3	114°01.8	116°37.5		
5	23°47.7	14.3°	04°34.2	15.3°	57.0°	111°33.5	108°28.7	79°59.6	66°03.3	38°16.3	64°36.0	113°34.6	117°01.6		
6	38°21.0	14.2°	N04°49.6	15.3°	57.0°	111°02.6	107°55.9	79°28.5	65°31.1	38°42.9	65°02.8	115°07.5	117°25.7		
7	52°54.2	14.2°	05°04.8	15.3°	57.0°	110°31.8	107°23.1	78°57.4	64°58.9	39°09.7	65°29.7	115°40.4	117°49.6		
8	67°27.4	14.1°	05°20.1	15.3°	57.0°	110°00.9	106°50.2	78°26.3	64°26.7	39°36.6	65°56.6	116°13.3	118°13.6		
9	82°00.5	14.1°	05°35.4	15.3°	57.1°	109°29.9	106°17.3	77°55.1	63°54.4	40°03.6	66°23.6	116°46.3	118°37.4		
10	96°33.6	14.0°	05°50.7	15.2°	57.1°	108°58.9	105°44.4	77°23.9	63°22.2	40°30.8	66°50.7	117°19.3	119°01.2		
11	111°06.6	14.0°	06°05.9	15.2°	57.1°	108°27.9	105°11.5	76°52.7	62°49.9	40°58.2	67°17.8	117°52.3	119°24.9		
12	125°39.6	13.9°	N06°21.1	15.2°	57.1°	107°56.9	104°38.5	76°21.5	62°17.6	41°25.7	67°45.0	118°25.3	119°48.6		
13	140°12.5	13.9°	06°36.4	15.2°	57.2°	107°25.8	104°05.5	75°50.2	61°45.2	41°53.3	68°12.2	118°58.3			
14	154°45.4	13.8°	06°51.6	15.2°	57.2°	106°54.7	103°32.5	75°18.9	61°12.9	42°21.0	68°39.5	119°31.4			
15	169°18.2	13.8°	07°06.7	15.2°	57.2°	106°23.5	102°59.5	74°47.6	60°40.5	42°48.8	69°06.9				
16	183°51.0	13.7°	07°21.9	15.1°	57.2°	105°52.3	102°26.4	74°16.3	60°08.2	43°16.8	69°34.3				
17	198°23.7	13.7°	07°37.0	15.1°	57.3°	105°21.1	101°53.3	73°44.9	59°35.8	43°44.9	70°01.8				
18	212°56.4	13.6°	N07°52.1	15.1°	57.3°	104°49.8	101°20.2	73°13.5	59°03.4	44°13.1	70°29.4				
19	227°29.0	13.5°	08°07.2	15.1°	57.3°	104°18.6	100°47.1	72°42.1	58°31.0	44°31.4	70°57.0				
20	242°01.5	13.5°	08°22.3	15.0°	57.3°	103°47.2	100°13.9	72°10.7	57°58.5	45°09.9	71°24.7				
21	256°34.0	13.4°	08°37.3	15.0°	57.4°	103°15.9	99°40.7	71°39.2	57°26.1	45°38.4	71°52.4				
22	271°06.4	13.3°	08°52.4	15.0°	57.4°	102°44.5	99°07.5	71°07.7	56°53.6	46°07.1	72°20.1				
23	285°38.7	13.3°	09°07.3	15.0°	57.4°	102°13.1	98°34.3	70°36.2	56°21.1	46°35.8	72°48.0				
3 rd	SD = 15.5' Mer. pass. 03:22														

h		Moon (4 th Aug)				Lunar Distance (objects with largest hourly LD delta)									
Tue	GHA	ν	Dec	d	HP	-Sun	-Procyon	-Pollux	-Mars	-Aldebaran	+Saturn	+Fomalhaut	+Altair		
0	300°11.0	13.2°	N09°22.3	14.9°	57.4°	116°33.1	101°41.6	98°01.0	70°04.7	55°48.6		47°04.6	73°15.8		
1	314°43.2	13.1°	09°37.2	14.9°	57.4°	116°02.1	101°10.1	97°27.7	69°33.1	55°16.1		47°33.6	73°43.8		
2	329°15.4	13.1°	09°52.1	14.9°	57.5°	115°31.1	100°38.6	96°01.5	69°01.5	54°43.6		48°02.6	74°11.7		
3	343°47.5	13.0°	10°07.0	14.8°	57.5°	115°00.1	100°07.1	96°21.1	68°29.9	54°11.0		48°31.7	74°39.8		
4	358°19.5	12.9°	10°21.8	14.8°	57.5°	114°29.1	99°35.5	95°47.7	67°58.3	53°38.5		49°01.0	75°07.8		
5	12°51.4	12.9°	10°36.6	14.8°	57.5°	113°58.0	99°03.9	95°14.3	67°26.6	53°05.9		49°30.3	75°35.9		
6	27°23.3	12.8°	N10°51.3	14.7°	57.6°	113°26.9	98°32.2	94°40.9	66°54.9	52°33.3		49°59.7	76°04.1		
7	41°55.0	12.7°	11°06.1	14.7°	57.6°	112°55.8	98°00.5	94°07.4	66°23.2	52°00.8		50°29.2	76°32.3		
8	56°26.8	12.6°	11°20.7	14.6°	57.6°	112°24.7	97°28.8	93°33.9	65°51.5	51°28.2		50°58.7	77°00.6		
9	70°58.4	12.6°	11°35.4	14.6°	57.6°	111°53.5	96°57.1	93°00.4	65°19.7	50°55.5		51°28.4	77°28.9		
10	85°29.9	12.5°	11°50.0	14.5°	57.7°	111°22.3	96°25.3	92°26.9	64°47.9	50°22.9		51°58.1	77°57.2		
11	100°01.4	12.4°	12°04.5	14.5°	57.7°	110°51.1	95°53.6	91°53.3	64°16.1	49°50.3		52°27.9	78°25.6		
12	114°32.8	12.3°	N12°19.0	14.5°	57.7°	110°19.8	95°21.7	91°19.7	63°44.2	49°17.6	9°43.4	52°57.8	78°54.0		
13	129°04.1	12.2°	12°33.4	14.4°	57.7°	109°48.5	94°49.9	90°46.1	63°12.4	48°45.0	10°09.6	53°27.8	79°22.5		
14	143°35.4	12.1°	12°47.8	14.4°	57.8°	109°17.2	94°18.0	90°12.5	62°40.5	48°12.3	10°36.5	53°57.8	79°51.0		
15	158°06.5	12.1°	13°02.2	14.3°	57.8°	108°45.9	93°46.1	89°38.8	62°08.5	47°39.6	11°04.1	54°27.9	80°19.6		
16	172°37.6	12.0°	13°16.8	14.2°	57.8°	108°14.5	93°14.2	89°05.1	61°36.6	47°07.0	11°32.2	54°58.1	80°48.2		
17	187°08.5	11.9°	13°30.5	14.2°	57.8°	107°43.2	92°42.2	88°31.4	61°04.6	46°34.3	12°00.8	55°28.4	81°16.8		
18	201°39.4	11.8°	N13°44.9	14.1°	57.9°	107°11.7	92°10.2	87°57.6	60°32.6	46°01.6	12°29.9	55°58.7	81°45.5		
19	216°10.2	11.7°	13°55.9	14.1°	57.9°	106°40.3	91°38.2	87°23.9	60°00.6	45°28.9	12°59.4	56°29.1	82°14.2		
20	230°40.9	11.6°	14°13.2	14.0°	57.9°	106°08.8	91°06.2	86°50.1	59°28.5	44°56.2	13°29.3	56°59.6	82°42.9		
21	245°11.5	11.5°	14°27.2	14.0°	57.9°	105°37.3	90°34.1	86°16.2	58°56.4	44°23.5	13°59.4	57°30.1	83°11.7		
22	259°42.0	11.4°	14°41.2	13.9°	58.0°	105°05.8	90°02.0	85°42.4	58°24.3	43°50.8	14°29.9	58°00.7	83°40.5		
23	274°12.5	11.3°	14°55.1	13.8°	58.0°	104°34.3	89°29.9	85°08.5	57°52.2	43°18.0	15°00.6	58°31.3	84°09.3		
4 th	SD = 15.7' Mer. pass. 04:07														

h		Moon (5 th Aug)				Lunar Distance (objects with largest hourly LD delta)								
Wed	GHA	ν	Dec	d	HP	-Procyon	-Pollux	-Mars	-Aldebaran	+Saturn	+Fomalhaut	+Achernar	+Altair	
0	288°42.8	11.2°	N15°08.9	13.8°	58.0°	88°57.7	84°34.6	57°20.0	42°45.3	15°31.6	59°02.1		84°38.2	
1	303°13.0	11.1°	15°22.7	13.7°	58.0°	88°25.5	84°00.6	56°47.8	42°12.6	15°02.8	59°32.8		85°07.1	
2	317°43.2	11.0°	15°36.4	13.6°	58.1°	87°53.3	83°26.7	56°15.6	41°39.9	16°34.3	60°03.7		85°36.1	
3	332°13.2	10.9°	15°50.0	13.6°	58.1°	87°21.1	82°52.7	55°43.4	41°07.2	17°05.9	60°34.6		86°05.0	
4	346°43.1	10.8°	16°03.6	13.5°	58.1°	86°48.9	82°18.6	55°11.1	40°34.5	17°37.7	61°05.5		86°34.0	
5	1°13.0	10.7°	16°17.1	13.4°	58.1°	86°16.6	81°44.6	54°38.8	40°01.8	18°09.6	61°36.6		87°03.1	
6	15°42.7	10.6°	N16°30.5	13.4°	58.2°	85°44.3	81°10.5	54°06.5	39°29.1	18°41.7	62°07.6		87°32.1	
7	30°12.3	10.5°	16°43.9	13.3°	58.2°	85°12.0	80°36.4	53°34.2	38°56.4	19°14.0	62°38.8		88°01.2	
8	44°41.9	10.4°	16°57.2	13.2°	58.2°	84°39.6	80°02.2	53°01.8	38°23.7	19°46.3	63°10.0		88°30.3	
9	59°11.3	10.3°	17°10.4	13.1°	58.2°	84°07.3	79°28.1	52°29.4	37°51.1	20°18.8	63°41.2		88°59.5	
10	73°40.6	10.2°	17°23.5	13.0°	58.3°	83°34.9	78°53.9	51°57.0	37°18.4	20°51.5	64°12.5		89°28.7	
11	88°09.8	10.1°	17°36.5	13.0°	58.3°	83°02.4	78°19.7	51°24.5	36°45.8	21°24.2	64°43.8		89°57.8	
12	102°38.9	10.0°	N17°49.5	12.9°	58.3°	82°30.0	77°45.4	50°52.0	36°13.2	21°57.0	65°15.2		90°27.1	
13	117°07.9	9.9°	18°02.3	12.8°	58.3°	81°57.5	77°11.1	50°19.5	35°40.6	22°30.0	65°46.7	75°22.9	90°56.3	
14	131°36.8	9.8°	18°15.1	12.7°	58.4°	81°25.1	76°36.8	49°47.0	35°08.0	23°03.0	66°18.2	75°38.0	91°25.6	
15	146°05.6	9.7°	18°27.8	12.6°	58.4°	80°52.6	76°02.5	49°14.5	34°35.4	23°36.1	66°49.8	75°53.2	91°54.9	
16	160°34.2	9.6°	18°40.5	12.5°	58.4°	80°20.0	75°28.1	48°41.9	34°02.9	24°09.3	67°21.4	76°08.5	92°24.2	
17	175°02.8	9.4°	18°53.0	12.4°	58.4°	79°47.5	74°53.7	48°09.3	33°30.4	24°42.6	67°53.0	76°23.8	92°53.5	
18	189°31.2	9.3°	N19°05.4	12.3°	58.5°	79°14.9	74°19.3	47°36.6	32°57.9	25°16.0	68°24.7	76°39.3	93°22.8	
19	203°59.6	9.2°	19°17.7	12.2°	58.5°	78°42.3	73°44.9	47°04.0	32°25.5	25°49.5	68°56.5	76°54.8	93°52.2	
20	218°27.8	9.1°	19°30.0	12.1°	58.5°	78°09.7	73°10.4	46°31.3	31°53.1	26°23.0	69°28.3	77°10.4	94°21.6	
21	232°55.9	9.0°	19°42.1	12.0°	58.5°	77°37.1	72°35.9	45°58.6	31°20.7	26°56.6	70°00.1	77°26.0	94°51.0	
22	247°23.8	8.9°	19°54.2	11.9°	58.6°	77°04.5	72°01.4	45°25.9	30°48.4	27°30.2	70°32.0	77°41.8	95°20.4	
23	261°51.7	8.7°	20°06.1	11.8°	58.6°	76°31.8	71°26.8	44°53.1	30°16.1	28°03.9	71°03.9	77°57.6	95°49.8	
5 th	SD = 15.8°		Mer. pass. 04:55											

2026 August 12 to Aug. 14 UT

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												

Moon (13 th Aug)					Lunar Distance (objects with largest hourly LD delta)							
Th	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°16.6	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°30.4	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									

Moon (14 th Aug)					Lunar Distance (objects with largest hourly LD delta)							
Fri	GHA	ν	Dec	d	HP	-Antares	-Rigel Kent	-Hadar	-Acrux	-Arcuturus	-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°03.7	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°45.9
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	13.3°	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											

DUT1 = UT1-UTC = +0.0149 sec ΔT = TT-UT1 = +69.1691 sec

2026 August 15 to Aug. 17 UT

h	Moon (15 th Aug)					Lunar Distance (objects with largest hourly LD delta)							
Sat	GHA	ν	Dec	d	HP	-Altair	-Antares	-Rigil 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°10.8	
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	39°36.1	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	39°20.9	20°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	39°05.8	20°29.8	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	38°50.7	19°56.7	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	38°35.2	19°23.6	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	-Rigil Kent.	-Hadar	±AcruX	-Spica	±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	49°55.2	
16	38°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	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	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	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	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	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	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	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	53°55.3	
16 th	SD = 15.6' Mer. pass. 15:04					Sun SD = 15.8'							

h Moon (17 th Aug)					Lunar Distance (objects with largest hourly LD delta)								
Mon	GHA	ν	Dec	d	HP	-Fomalhaut	-Altair	-Rigil Kent.	-Antares	-Hadar	±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	48°05.9		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°15.2		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°51.5
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°49.7
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°44.2
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'						

DUT1 = UT1-UTC = +0.0142 sec ΔT = TT-UT1 = +69.1698 sec

2026 August 18 to Aug. 20 UT

h Moon (18 th Aug)				
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DUT1 = UT1-UTC = +0.0153 sec ΔT = TT-UT1 = +69.1687 sec

2026 August 21 to Aug. 23 UT

h Moon (21 st Aug)					Lunar Distance (objects with largest hourly LD delta)								
Fri	GHA	ν	Dec	d	HP	-Saturn	-Fomalhaut	-Altair	+Antares	+Spica	+Venus	+Arcturus	+Sun
0	84°20.3	10.6°	S26°45.5	-4.6°	54.3°		84°52.5	62°35.0	2°29.4	43°31.9	53°58.9	54°40.3	99°42.3
1	98°49.9	10.6°	26°50.1	-4.5°	54.3°		84°24.9	62°11.0	2°00.9	44°01.6	54°26.3	55°01.5	100°09.6
2	113°19.5	10.5°	26°54.5	-4.3°	54.2°		83°57.3	61°47.2	1°33.1	44°31.2	54°53.7	55°22.7	100°36.9
3	127°49.0	10.5°	26°58.8	-4.2°	54.2°		83°29.7	61°23.3		45°00.9	55°21.0	55°40.0	101°04.2
4	142°18.5	10.5°	27°03.0	-4.1°	54.2°		83°02.1	60°59.6		45°30.5	55°48.4	56°05.5	101°31.5
5	156°48.0	10.4°	27°07.1	-3.9°	54.2°		82°34.6	60°35.9		46°00.1	56°15.8	56°26.9	101°58.7
6	171°17.4	10.4°	S27°11.0	-3.8°	54.2°		82°07.0	60°12.2		46°29.7	56°43.1	56°48.5	102°26.0
7	185°46.8	10.4°	27°14.8	-3.7°	54.2°		81°39.4	59°48.6		46°59.3	57°10.4	57°10.1	102°53.2
8	200°16.2	10.3°	27°18.5	-3.5°	54.2°		81°11.9	59°25.1		47°28.9	57°37.8	57°31.9	103°20.5
9	214°45.5	10.3°	27°22.0	-3.4°	54.2°		80°44.4	59°01.6		47°58.5	58°05.1	57°53.6	103°47.7
10	229°14.8	10.3°	27°25.5	-3.3°	54.2°		80°16.9	58°38.2	2°36.5	48°28.1	58°32.4	58°15.5	104°14.9
11	243°44.1	10.3°	27°28.7	-3.2°	54.2°		79°49.3	58°14.9	3°05.4	48°57.7	58°59.7	58°37.4	104°42.2
12	258°13.4	10.2°	S27°31.9	-3.0°	54.2°	119°35.1	79°21.9	57°51.6	3°34.4	49°27.3	59°27.0	58°59.4	105°09.4
13	272°42.6	10.2°	27°34.9	-2.9°	54.2°	119°05.6	78°54.4	57°28.4	4°03.7	49°56.8	59°54.4	59°21.4	105°36.6
14	287°11.8	10.2°	27°37.8	-2.8°	54.2°	118°36.7	78°26.9	57°05.3	4°32.9	50°26.4	60°21.7	59°43.5	106°03.8
15	301°41.0	10.2°	27°40.5	-2.6°	54.2°	118°06.2	77°59.4	56°42.2	5°02.3	50°56.0	60°49.0	60°05.7	106°31.0
16	316°10.2	10.1°	27°43.2	-2.5°	54.2°	117°37.2	77°32.0	56°19.2	5°31.7	51°25.5	61°16.3	60°27.9	106°58.2
17	330°39.3	10.1°	27°45.7	-2.4°	54.2°	117°37.2	77°04.6	55°56.2	6°01.1	51°55.1	61°43.6	60°50.2	107°25.4
18	345°08.4	10.1°	S27°48.0	-2.2°	54.1°	117°07.8	76°37.1	55°33.4	6°30.6	52°24.7	62°10.8	61°12.6	107°52.6
19	359°37.5	10.1°	27°50.2	-2.1°	54.1°	116°38.3	76°09.7	55°10.6	7°00.0	52°54.2	62°38.1	61°35.0	108°19.8
20	14°06.6	10.1°	27°52.3	-2.0°	54.1°	116°08.8	75°42.3	54°47.9	7°29.5	53°23.8	63°05.4	61°57.5	108°47.0
21	28°35.7	10.0°	27°54.3	-1.8°	54.1°	115°39.3	75°14.9	54°25.2	7°59.0	53°53.3	63°32.7	62°20.0	109°14.2
22	43°04.7	10.0°	27°56.1	-1.7°	54.1°	115°09.9	74°47.5	54°02.6	8°28.5	54°22.9	64°00.0	62°42.5	109°41.4
23	57°33.8	10.0°	27°57.8	-1.5°	54.1°	114°40.4	74°20.2	53°40.2	8°58.0	54°52.4	64°27.3	63°05.2	110°08.6
21 st	SD = 14.8' Mer. pass. 19:02					Sun SD = 15.8'							

Moon (22 nd Aug)						Lunar Distance (objects with largest hourly LD delta)								
Sat	GHA	ν	Dec	d	HP	-Saturn	-Deneb	-Fomalhaut	-Altair	+Antares	+Spica	+Venus	+Sun	
0	72°02.8	10.0°	S27°59.3	-1.4°	54.1°	114°10.9	87°24.8	73°52.8	53°17.7	9°27.5	55°22.0	64°54.6	110°35.7	
1	86°31.8	10.0°	S28°00.7	-1.3°	54.1°	113°41.5	87°09.6	73°25.5	52°55.4	9°57.0	55°15.5	65°21.9	110°02.9	
2	101°00.8	10.0°	S28°02.0	-1.1°	54.1°	113°12.0	86°54.4	72°58.1	52°33.2	10°26.5	56°21.1	65°49.2	110°30.1	
3	115°29.7	10.0°	S28°03.1	-1.0°	54.1°	112°42.5	86°39.3	72°30.8	52°11.0	10°56.5	56°50.6	66°16.5	110°57.3	
4	129°58.7	10.0°	S28°04.2	-0.9°	54.1°	112°13.0	86°24.1	72°03.5	51°49.0	11°25.6	57°20.1	66°43.8	112°24.5	
5	144°27.7	9.9°	S28°05.0	-0.7°	54.1°	111°43.5	86°08.9	71°36.2	51°27.0	11°55.1	57°49.7	67°11.0	112°51.7	
6	158°56.6	9.9°	S28°05.8	-0.6°	54.1°	111°14.1	85°53.8	71°08.9	51°05.1	12°24.7	58°19.2	67°38.3	113°18.8	
7	173°25.5	9.9°	S28°06.4	-0.5°	54.1°	110°44.6	85°38.6	70°41.6	50°43.3	12°54.2	58°48.8	68°05.6	113°46.0	
8	187°54.5	9.9°	S28°06.8	-0.3°	54.1°	110°15.1	85°23.5	70°14.4	50°21.6	13°23.8	59°18.3	68°32.9	114°13.2	
9	202°23.4	9.9°	S28°07.2	-0.2°	54.1°	109°45.6	85°08.4	69°47.1	50°00.0	13°53.3	59°47.9	69°00.2	114°40.4	
10	216°52.3	9.9°	S28°07.3	-0.1°	54.1°	109°16.1	84°53.3	69°19.9	49°38.5	14°22.9	60°17.5	69°27.5	115°07.6	
11	231°21.2	9.9°	S28°07.4	0.1°	54.1°	108°46.6	84°38.2	68°52.6	49°17.1	14°52.4	60°47.0	69°54.9	115°34.8	
12	245°50.1	9.9°	S28°07.3	0.2°	54.1°	108°17.1	84°23.1	68°25.4	48°55.8	15°22.0	61°16.6	70°22.2	116°02.0	
13	260°19.1	9.9°	S28°07.1	0.4°	54.1°	107°47.6	84°08.1	67°58.2	48°34.6	15°51.6	61°46.1	70°49.5	116°29.2	
14	274°48.0	9.9°	S28°06.7	0.5°	54.1°	107°18.1	83°53.1	67°31.0	48°13.5	16°21.2	62°15.7	71°16.8	116°56.4	
15	289°16.9	9.9°	S28°06.3	0.6°	54.1°	106°48.6	83°38.1	67°03.9	47°52.5	16°50.7	62°45.3	71°44.1	117°23.6	
16	303°45.8	9.9°	S28°05.6	0.8°	54.1°	106°19.1		66°36.7	47°31.6	17°20.3	63°14.9	72°11.5	117°50.8	
17	318°14.7	9.9°	S28°04.9	0.9°	54.1°	105°49.5		66°09.5	47°10.9	17°49.9	63°44.4	72°38.8	118°18.0	
18	332°43.6	9.9°	S28°04.0	1.0°	54.1°	105°20.0		65°42.4	46°50.2	18°19.5	64°14.0	73°06.1	118°45.2	
19	347°12.5	9.9°	S28°02.9	1.2°	54.1°	104°50.5		65°15.3	46°29.7	18°49.1	64°43.6	73°33.5	119°12.4	
20	1°41.5	9.9°	S28°01.8	1.3°	54.1°	104°20.9		64°48.2	46°09.3	19°18.7	65°13.2	74°00.9	119°39.7	
21	16°10.4	9.9°	S28°00.5	1.4°	54.1°	103°51.4		64°21.1	45°49.0	19°48.3	65°42.8	74°28.2		
22	30°39.3	9.9°	S27°59.0	1.6°	54.1°	103°21.8		63°54.0	45°28.9	20°18.0	66°12.4	74°55.6		
23	45°08.3	10.0°	S27°57.5	1.7°	54.1°	102°52.2		63°26.9	45°08.9	20°47.6	66°42.1	75°23.0		
22 nd	SD = 14.8' Mer. pass. 19:53						Sun SD = 15.8'							

h Moon (23 rd Aug)						Lunar Distance (objects with largest hourly LD delta)							
Sun	GHA	ν	Dec	d	HP	-Saturn	-Fomalhaut	-Altair	+Antares	+Hadar	+Spica	+Arcturus	+Venus
0	59°37.2	10.0°	S27°55.7	1.8°	54.2°	102°22.7	62°59.9	44°49.0	21°17.2	51°25.7	67°11.7	72°45.8	75°50.3
1	74°06.2	10.0°	S27°53.9	2.0°	54.2°	101°53.1	62°32.9	44°29.3	21°46.9	51°43.5	67°41.3	73°09.5	76°17.7
2	88°35.2	10.0°	S27°51.9	2.1°	54.2°	101°23.5	62°05.8	44°09.7	22°16.5	52°01.4	68°10.9	73°33.3	76°45.1
3	103°04.2	10.0°	S27°49.8	2.3°	54.2°	100°53.9	61°38.8	43°50.3	22°46.2	52°19.4	68°40.6	73°57.1	77°12.6
4	117°33.2	10.0°	S27°47.5	2.4°	54.2°	100°24.3	61°11.9	43°31.0	23°15.9	52°37.5	69°10.2	74°20.9	77°40.0
5	132°02.2	10.0°	S27°45.1	2.5°	54.2°	99°54.7	60°44.9	43°11.8	23°45.5	52°55.8	69°39.9	74°44.8	78°07.4
6	146°31.2	10.1°	S27°42.6	2.7°	54.2°	99°25.1	60°17.9	42°52.8	24°15.2	53°14.2	70°09.6	75°08.7	78°34.8
7	161°00.3	10.1°	S27°40.0	2.8°	54.2°	98°55.4	59°51.0	42°34.0	24°44.9	53°32.7	70°39.3	75°32.6	79°02.3
8	175°29.3	10.1°	S27°37.2	2.9°	54.2°	98°25.8	59°24.1	42°15.3	25°14.6	53°51.3	71°08.9	75°56.6	79°29.7
9	189°58.4	10.1°	S27°34.2	3.1°	54.2°	97°56.1	58°57.2	41°56.8	25°44.3	54°10.1	71°38.6	76°20.5	79°57.2
10	204°27.5	10.1°	S27°31.2	3.2°	54.2°	97°26.5	58°30.3	41°38.5	26°14.1	54°28.9	72°08.3	76°44.6	80°24.7
11	218°56.7	10.2°	S27°28.0	3.3°	54.2°	96°56.8	58°03.5	41°20.3	26°43.8	54°47.9	72°38.1	77°08.6	80°52.2
12	233°25.8	10.2°	S27°24.7	3.5°	54.2°	96°27.1	57°36.7	41°02.3	27°13.5	55°07.0	73°07.8	77°32.7	81°19.7
13	247°55.0	10.2°	S27°21.2	3.6°	54.2°	95°57.4	57°09.8	40°44.5	27°43.3	55°26.2	73°37.5	77°56.8	81°47.2
14	262°24.2	10.2°	S27°17.6	3.7°	54.2°	95°27.7	56°43.1	40°26.9	28°13.0	55°45.5	74°07.3	78°20.9	82°14.7
15	276°53.4	10.2°	S27°13.9	3.9°	54.2°	94°58.0	56°16.3	40°09.5	28°42.8	56°05.0	74°37.0	78°45.1	82°42.2
16	291°22.7	10.3°	S27°10.0	4.0°	54.3°	94°28.3	55°49.5	39°52.3	29°12.6	56°24.5	75°06.8	79°09.3	83°09.8
17	305°51.9	10.3°	S27°06.0	4.1°	54.3°	93°58.5	55°22.8	39°35.3	29°42.4	56°44.1	75°36.6	79°33.5	83°37.3
18	320°21.2	10.3°	S27°01.9	4.3°	54.3°	93°28.8	54°56.1	39°18.4	30°12.2	57°03.9	76°06.4	79°57.7	84°04.9
19	334°50.6	10.4°	S26°57.7	4.4°	54.3°	92°59.0	54°29.5	39°01.8	30°42.0	57°23.7	76°36.2	80°22.0	84°32.5
20	349°19.9	10.4°	S26°53.3	4.5°	54.3°	92°29.3	54°02.8	38°45.4	31°11.9	57°43.7	77°06.0	80°46.2	85°00.1
21	3°49.3	10.4°	S26°48.8	4.6°	54.3°	91°99.5	53°36.2	38°29.3	31°41.7	58°03.7	77°35.8	81°10.5	85°27.7
22	18°18.7	10.4°	S26°44.1	4.8°	54.3°	91°29.7	53°09.6	38°13.3	32°11.6	58°23.9	78°05.7	81°34.9	85°55.3
23	32°48.2	10.5°	S26°39.4	4.9°	54.3°	90°59.9	52°43.1	37°57.6	32°41.5	58°44.1	78°35.5	81°59.2	86°23.0
23 rd	SD = 14.8° Mer. pass. 20:44												