

Sat Jul 1, 2017 UTC

UTC	+Sun		+Regulus		-Spica		-Jupiter		-Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	89°35.4'	3169	38°58.9'	2817	16°07.9'	3218	5°25.3'	3446	61°32.4'	2896
1	90°04.3'	3174	39°30.2'	2821	15°39.3'	3250	-	-	61°01.6'	2902
2	90°33.2'	3179	40°01.6'	2826	15°10.9'	3284	-	-	60°30.8'	2907
3	91°02.0'	3184	40°32.9'	2831	14°42.8'	3322	-	-	60°00.1'	2913
4	91°30.9'	3189	41°04.1'	2835	14°14.9'	3363	-	-	59°29.4'	2918
5	91°59.7'	3194	41°35.4'	2840	13°47.2'	3409	-	-	58°58.8'	2924
6	92°28.4'	3199	42°06.6'	2845	13°19.8'	3458	-	-	58°28.2'	2929
7	92°57.1'	3204	42°37.7'	2849	12°52.8'	3514	-	-	57°57.6'	2934
8	93°25.8'	3209	43°08.9'	2854	12°26.1'	3575	-	-	57°27.1'	2940
9	93°54.5'	3214	43°40.0'	2858	11°59.7'	3644	-	-	56°56.6'	2945
10	94°23.1'	3218	44°11.0'	2862	11°33.8'	3722	-	-	56°26.1'	2951
11	94°51.7'	3223	44°42.1'	2867	11°08.3'	3809	-	-	55°55.7'	2956
12	95°20.3'	3228	45°13.1'	2871	10°43.4'	3909	-	-	55°25.3'	2962
13	95°48.8'	3232	45°44.1'	2875	10°19.0'	4022	-	-	54°55.0'	2967
14	96°17.3'	3237	46°15.0'	2879	9°55.2'	4152	-	-	54°24.7'	2972
15	96°45.8'	3241	46°45.9'	2883	9°32.1'	4303	-	-	53°54.4'	2978
16	97°14.2'	3246	47°16.8'	2888	-	-	-	-	53°24.2'	2983
17	97°42.7'	3250	47°47.7'	2892	-	-	-	-	52°54.0'	2988
18	98°11.1'	3254	48°18.5'	2896	-	-	5°10.6'	3474	52°23.9'	2994
19	98°39.4'	3259	48°49.3'	2900	-	-	5°37.6'	3386	51°53.7'	2999
20	99°07.7'	3263	49°20.1'	2904	-	-	6°05.1'	3318	51°23.7'	3005
21	99°36.1'	3267	49°50.8'	2907	-	-	6°33.1'	3266	50°53.6'	3010
22	100°04.3'	3271	50°21.6'	2911	-	-	7°01.3'	3225	50°23.6'	3015
23	100°32.6'	3275	50°52.2'	2915	-	-	7°29.9'	3192	49°53.7'	3021

Sun Jul 2, 2017 UTC

UTC	+Sun		+Jupiter		+Regulus		-Antares		-Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	101°00.8'	3279	7°58.7'	3165	51°22.9'	2919	49°23.7'	3026	61°55.7'	2904
1	101°29.0'	3283	8°27.6'	3144	51°53.6'	2923	48°53.8'	3031	61°24.9'	2907
2	101°57.2'	3287	8°56.7'	3126	52°24.2'	2926	48°24.0'	3037	60°54.2'	2911
3	102°25.3'	3291	9°25.9'	3112	52°54.8'	2930	47°54.2'	3042	60°23.5'	2915
4	102°53.4'	3295	9°55.2'	3101	53°25.3'	2933	47°24.4'	3048	59°52.8'	2918
5	103°21.5'	3299	10°24.6'	3091	53°55.8'	2937	46°54.6'	3053	59°22.2'	2922
6	103°49.6'	3303	10°54.1'	3083	54°26.4'	2940	46°24.9'	3059	58°51.6'	2926
7	104°17.6'	3307	11°23.6'	3076	54°56.8'	2944	45°55.3'	3064	58°21.0'	2929
8	104°45.7'	3310	11°53.1'	3071	55°27.3'	2947	45°25.6'	3069	57°50.4'	2933
9	105°13.7'	3314	12°22.7'	3067	55°57.7'	2951	44°56.0'	3075	57°19.9'	2936
10	105°41.6'	3317	12°52.3'	3063	56°28.2'	2954	44°26.5'	3081	56°49.4'	2939
11	106°09.6'	3321	13°21.9'	3060	56°58.6'	2957	43°57.0'	3086	56°18.9'	2943
12	106°37.5'	3324	13°51.6'	3058	57°28.9'	2960	43°27.5'	3092	55°48.4'	2946
13	107°05.4'	3328	14°21.3'	3057	57°59.3'	2963	42°58.1'	3097	55°18.0'	2949
14	107°33.3'	3331	14°50.9'	3055	58°29.6'	2967	42°28.6'	3103	54°47.5'	2953
15	108°01.2'	3335	15°20.6'	3054	58°59.9'	2970	41°59.3'	3109	54°17.1'	2956
16	108°29.0'	3338	15°50.3'	3054	59°30.2'	2973	41°30.0'	3115	53°46.8'	2959
17	108°56.8'	3341	16°20.0'	3053	60°00.4'	2976	41°00.7'	3121	53°16.4'	2962
18	109°24.6'	3344	16°49.7'	3053	60°30.7'	2979	40°31.4'	3127	52°46.1'	2965
19	109°52.4'	3348	17°19.4'	3054	61°00.9'	2981	40°02.2'	3133	52°15.8'	2968
20	110°20.2'	3351	17°49.1'	3054	61°31.1'	2984	39°33.0'	3139	51°45.5'	2971
21	110°47.9'	3354	18°18.8'	3054	62°01.3'	2987	39°03.9'	3145	51°15.2'	2974
22	111°15.6'	3357	18°48.5'	3055	62°31.4'	2990	38°34.8'	3151	50°44.9'	2977
23	111°43.3'	3360	19°18.2'	3056	63°01.6'	2993	38°05.8'	3157	50°14.7'	2980

Mon Jul 3, 2017 UTC

UTC	+Sun		+Jupiter		-Saturn		-Antares		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	112°11.0'	3363	19°47.9'	3057	49°44.5'	2983	37°36.8'	3164	11°39.8'	3767
1	112°38.7'	3365	20°17.6'	3058	49°14.3'	2986	37°07.8'	3170	12°05.0'	3709
2	113°06.3'	3368	20°47.3'	3059	48°44.1'	2988	36°38.9'	3177	12°30.6'	3657
3	113°33.9'	3371	21°16.9'	3060	48°14.0'	2991	36°10.0'	3184	12°56.4'	3611
4	114°01.6'	3374	21°46.6'	3061	47°43.9'	2994	35°41.2'	3191	13°22.5'	3570
5	114°29.1'	3376	22°16.3'	3062	47°13.7'	2996	35°12.4'	3198	13°48.9'	3534
6	114°56.7'	3379	22°45.9'	3063	46°43.6'	2999	34°43.7'	3205	14°15.5'	3501
7	115°24.3'	3382	23°15.5'	3065	46°13.6'	3001	34°15.0'	3212	14°42.3'	3472
8	115°51.8'	3384	23°45.2'	3066	45°43.5'	3004	33°46.4'	3220	15°09.3'	3446
9	116°19.3'	3387	24°14.8'	3067	45°13.5'	3006	33°17.8'	3228	15°36.4'	3422
10	116°46.9'	3389	24°44.4'	3069	44°43.4'	3009	32°49.3'	3236	16°03.7'	3400
11	117°14.4'	3392	25°14.0'	3070	44°13.4'	3011	32°20.8'	3244	16°31.1'	3381
12	117°41.8'	3394	25°43.6'	3071	43°43.4'	3014	31°52.4'	3252	16°58.7'	3363
13	118°09.3'	3396	26°13.2'	3073	43°13.4'	3016	31°24.0'	3261	17°26.3'	3347
14	118°36.7'	3398	26°42.7'	3074	42°43.5'	3018	30°55.7'	3270	17°54.1'	3332
15	119°04.2'	3401	27°12.3'	3075	42°13.5'	3021	30°27.4'	3279	18°22.0'	3318
16	119°31.6'	3403	27°41.9'	3077	41°43.6'	3023	29°59.2'	3289	18°49.9'	3306
17	119°59.0'	3405	28°11.4'	3078	41°13.7'	3025	29°31.1'	3299	19°17.9'	3294
18	120°26.4'	3407	28°40.9'	3079	40°43.8'	3027	29°03.0'	3309	19°46.0'	3284
19	120°53.8'	3409	29°10.5'	3080	40°13.9'	3029	28°35.0'	3320	20°14.2'	3274
20	121°21.2'	3411	29°40.0'	3082	39°44.0'	3031	28°07.1'	3331	20°42.4'	3265
21	121°48.5'	3413	30°09.5'	3083	39°14.2'	3034	27°39.2'	3342	21°10.7'	3257
22	122°15.9'	3415	30°39.0'	3084	38°44.4'	3036	27°11.4'	3354	21°39.1'	3250
23	122°43.2'	3417	31°08.5'	3085	38°14.5'	3038	26°43.7'	3367	22°07.4'	3243

Tue Jul 4, 2017 UTC

UTC	+Jupiter		+Spica		-Saturn		-Antares		+Regulus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	31°38.0'	3087	22°35.9'	3236	37°44.7'	3040	26°16.1'	3380	75°29.9'	3045
1	32°07.5'	3088	23°04.4'	3230	37°14.9'	3042	25°48.5'	3394	75°59.6'	3047
2	32°36.9'	3089	23°32.9'	3224	36°45.1'	3044	25°21.0'	3408	76°29.4'	3048
3	33°06.4'	3090	24°01.4'	3219	36°15.4'	3045	24°53.7'	3423	76°59.1'	3050
4	33°35.8'	3091	24°30.0'	3214	35°45.6'	3047	24°26.4'	3439	77°28.9'	3051
5	34°05.3'	3092	24°58.7'	3210	35°15.9'	3049	23°59.2'	3456	77°58.6'	3053
6	34°34.7'	3093	25°27.3'	3206	34°46.1'	3051	23°32.1'	3474	78°28.3'	3054
7	35°04.2'	3094	25°56.0'	3202	34°16.4'	3053	23°05.2'	3492	78°58.0'	3055
8	35°33.6'	3095	26°24.7'	3198	33°46.7'	3055	22°38.3'	3512	79°27.7'	3057
9	36°03.0'	3096	26°53.4'	3194	33°17.0'	3057	22°11.6'	3533	79°57.3'	3058
10	36°32.4'	3097	27°22.2'	3191	32°47.3'	3058	21°45.0'	3555	80°27.0'	3059
11	37°01.8'	3098	27°51.0'	3188	32°17.7'	3060	21°18.5'	3579	80°56.7'	3060
12	37°31.2'	3099	28°19.8'	3185	31°48.0'	3062	20°52.2'	3604	81°26.3'	3061
13	38°00.6'	3100	28°48.6'	3182	31°18.4'	3064	20°26.0'	3631	81°56.0'	3062
14	38°30.0'	3101	29°17.4'	3180	30°48.7'	3066	20°00.0'	3659	82°25.6'	3063
15	38°59.4'	3101	29°46.3'	3177	30°19.1'	3067	19°34.2'	3690	82°55.3'	3064
16	39°28.8'	3102	30°15.1'	3175	29°49.5'	3069	19°08.5'	3723	83°24.9'	3065
17	39°58.1'	3103	30°44.0'	3172	29°19.9'	3071	18°43.1'	3758	83°54.5'	3066
18	40°27.5'	3104	31°12.9'	3170	28°50.3'	3073	18°17.8'	3796	84°24.1'	3067
19	40°56.9'	3104	31°41.8'	3168	28°20.7'	3075	17°52.8'	3837	84°53.8'	3068
20	41°26.2'	3105	32°10.8'	3166	27°51.2'	3076	17°28.0'	3882	85°23.4'	3068
21	41°55.6'	3105	32°39.7'	3165	27°21.6'	3078	17°03.5'	3930	85°53.0'	3069
22	42°24.9'	3106	33°08.7'	3163	26°52.1'	3080	16°39.2'	3982	86°22.6'	3070
23	42°54.3'	3107	33°37.6'	3161	26°22.6'	3082	16°15.2'	4038	86°52.2'	3071

Wed Jul 5, 2017 UTC

UTC	−Saturn		+Spica		+Jupiter		−Antares		+Regulus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	25°53.1′	3084	34°06.6′	3159	43°23.6′	3107	15°51.5′	4100	87°21.7′	3071
1	25°23.6′	3086	34°35.6′	3158	43°52.9′	3108	15°28.2′	4167	87°51.3′	3072
2	24°54.1′	3088	35°04.6′	3156	44°22.3′	3108	15°05.2′	4241	88°20.9′	3072
3	24°24.6′	3090	35°33.6′	3155	44°51.6′	3108	14°42.6′	4321	88°50.5′	3073
4	23°55.2′	3092	36°02.6′	3153	45°20.9′	3109	14°20.4′	4410	89°20.1′	3073
5	23°25.7′	3094	36°31.6′	3152	45°50.3′	3109	13°58.7′	4508	89°49.6′	3074
6	22°56.3′	3097	37°00.7′	3151	46°19.6′	3109	13°37.4′	4616	90°19.2′	3074
7	22°26.9′	3099	37°29.7′	3149	46°48.9′	3110	13°16.7′	4735	90°48.7′	3074
8	21°57.5′	3101	37°58.8′	3148	47°18.2′	3110	12°56.5′	4868	91°18.3′	3075
9	21°28.1′	3104	38°27.8′	3147	47°47.6′	3110	12°37.0′	5016	91°47.9′	3075
10	20°58.8′	3107	38°56.9′	3145	48°16.9′	3110	12°18.1′	5182	92°17.4′	3075
11	20°29.4′	3110	39°26.0′	3144	48°46.2′	3110	11°59.9′	5368	92°47.0′	3076
12	20°00.1′	3113	39°55.1′	3143	49°15.5′	3111	–	–	93°16.5′	3076
13	19°30.8′	3116	40°24.2′	3142	49°44.8′	3111	–	–	93°46.1′	3076
14	19°01.5′	3119	40°53.3′	3141	50°14.1′	3111	–	–	94°15.6′	3076
15	18°32.3′	3123	41°22.4′	3140	50°43.5′	3111	–	–	94°45.2′	3076
16	18°03.0′	3127	41°51.5′	3138	51°12.8′	3111	–	–	95°14.7′	3076
17	17°33.8′	3131	42°20.6′	3137	51°42.1′	3111	–	–	95°44.3′	3076
18	17°04.7′	3136	42°49.8′	3136	52°11.4′	3111	–	–	96°13.8′	3076
19	16°35.5′	3141	43°18.9′	3135	52°40.7′	3111	–	–	96°43.4′	3076
20	16°06.4′	3146	43°48.1′	3134	53°10.0′	3110	–	–	97°12.9′	3076
21	15°37.3′	3152	44°17.2′	3133	53°39.3′	3110	–	–	97°42.5′	3076
22	15°08.3′	3159	44°46.4′	3132	54°08.7′	3110	–	–	98°12.0′	3076
23	14°39.3′	3166	45°15.6′	3131	54°38.0′	3110	–	–	98°41.6′	3076

Thu Jul 6, 2017 UTC

UTC	−Saturn		+Spica		+Jupiter		+Regulus		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	14°10.4′	3174	45°44.8′	3129	55°07.3′	3110	99°11.1′	3075	49°20.7′	3972
1	13°41.5′	3182	46°13.9′	3128	55°36.6′	3109	99°40.7′	3075	49°44.7′	3958
2	13°12.6′	3192	46°43.1′	3127	56°05.9′	3109	100°10.2′	3075	50°08.8′	3945
3	12°43.9′	3203	47°12.3′	3126	56°35.3′	3109	100°39.8′	3075	50°33.0′	3933
4	12°15.2′	3216	47°41.6′	3125	57°04.6′	3109	101°09.3′	3074	50°57.3′	3920
5	11°46.5′	3230	48°10.8′	3124	57°33.9′	3108	101°38.9′	3074	51°21.6′	3908
6	11°18.0′	3245	48°40.0′	3123	58°03.3′	3108	102°08.5′	3074	51°46.0′	3897
7	10°49.6′	3264	49°09.2′	3122	58°32.6′	3107	102°38.0′	3073	52°10.5′	3885
8	10°21.3′	3284	49°38.5′	3121	59°01.9′	3107	103°07.6′	3073	52°35.0′	3874
9	9°53.1′	3309	50°07.7′	3119	59°31.3′	3106	103°37.2′	3072	52°59.6′	3863
10	9°25.1′	3337	50°37.0′	3118	60°00.6′	3106	104°06.7′	3072	53°24.2′	3853
11	8°57.3′	3370	51°06.2′	3117	60°30.0′	3105	104°36.3′	3071	53°48.9′	3842
12	8°29.7′	3409	51°35.5′	3116	60°59.3′	3105	105°05.9′	3071	54°13.7′	3832
13	8°02.3′	3456	52°04.8′	3115	61°28.7′	3104	105°35.5′	3070	54°38.5′	3822
14	7°35.2′	3512	52°34.1′	3114	61°58.0′	3104	106°05.1′	3070	55°03.4′	3813
15	7°08.5′	3581	53°03.4′	3112	62°27.4′	3103	106°34.7′	3069	55°28.3′	3803
16	6°42.2′	3666	53°32.7′	3111	62°56.8′	3102	107°04.3′	3068	55°53.3′	3794
17	6°16.4′	3772	54°02.0′	3110	63°26.1′	3101	107°33.9′	3068	56°18.4′	3785
18	5°51.2′	3906	54°31.3′	3109	63°55.5′	3101	108°03.5′	3067	56°43.5′	3776
19	–	–	55°00.6′	3107	64°24.9′	3100	108°33.1′	3066	57°08.6′	3767
20	–	–	55°30.0′	3106	64°54.3′	3099	109°02.7′	3065	57°33.8′	3759
21	–	–	55°59.3′	3105	65°23.7′	3098	109°32.3′	3065	57°59.1′	3751
22	–	–	56°28.7′	3104	65°53.1′	3098	110°02.0′	3064	58°24.4′	3743
23	–	–	56°58.0′	3102	66°22.5′	3097	110°31.6′	3063	58°49.7′	3735

Fri Jul 7, 2017 UTC

UTC	+Spica		+Jupiter		+Antares		-Formalhaut		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	57°27.4'	3101	66°51.9'	3096	14°28.4'	4281	75°51.9'	3358	59°15.1'	3727
1	57°56.8'	3100	67°21.3'	3095	14°50.8'	4202	75°24.2'	3358	59°40.6'	3719
2	58°26.2'	3099	67°50.7'	3094	15°13.6'	4130	74°56.5'	3359	60°06.0'	3712
3	58°55.6'	3097	68°20.1'	3093	15°36.8'	4065	74°28.8'	3359	60°31.6'	3705
4	59°25.0'	3096	68°49.6'	3092	16°00.3'	4005	74°01.2'	3360	60°57.1'	3697
5	59°54.4'	3095	69°19.0'	3091	16°24.2'	3949	73°33.5'	3360	61°22.7'	3690
6	60°23.8'	3093	69°48.5'	3090	16°48.3'	3898	73°05.8'	3361	61°48.4'	3683
7	60°53.2'	3092	70°17.9'	3089	17°12.8'	3852	72°38.1'	3361	62°14.1'	3677
8	61°22.7'	3090	70°47.4'	3088	17°37.5'	3808	72°10.5'	3362	62°39.8'	3670
9	61°52.1'	3089	71°16.8'	3087	18°02.5'	3768	71°42.8'	3363	63°05.6'	3664
10	62°21.6'	3088	71°46.3'	3086	18°27.7'	3731	71°15.1'	3363	63°31.4'	3657
11	62°51.1'	3086	72°15.8'	3085	18°53.1'	3696	70°47.5'	3364	63°57.2'	3651
12	63°20.5'	3085	72°45.3'	3084	19°18.7'	3664	70°19.8'	3365	64°23.1'	3645
13	63°50.0'	3083	73°14.8'	3083	19°44.5'	3634	69°52.2'	3366	64°49.1'	3639
14	64°19.5'	3082	73°44.3'	3081	20°10.5'	3605	69°24.5'	3367	65°15.0'	3633
15	64°49.0'	3080	74°13.8'	3080	20°36.7'	3579	68°56.9'	3368	65°41.0'	3627
16	65°18.6'	3079	74°43.3'	3079	21°03.0'	3554	68°29.3'	3369	66°07.0'	3621
17	65°48.1'	3077	75°12.8'	3078	21°29.4'	3531	68°01.6'	3370	66°33.1'	3616
18	66°17.6'	3076	75°42.4'	3077	21°56.0'	3509	67°34.0'	3371	66°59.2'	3610
19	66°47.2'	3074	76°11.9'	3075	22°22.8'	3489	67°06.4'	3372	67°25.3'	3605
20	67°16.7'	3073	76°41.5'	3074	22°49.7'	3470	66°38.8'	3373	67°51.5'	3600
21	67°46.3'	3071	77°11.0'	3073	23°16.6'	3451	66°11.2'	3374	68°17.7'	3594
22	68°15.9'	3070	77°40.6'	3071	23°43.8'	3434	65°43.6'	3375	68°43.9'	3589
23	68°45.5'	3068	78°10.2'	3070	24°11.0'	3418	65°16.0'	3377	69°10.1'	3584

Sat Jul 8, 2017 UTC

UTC	+Saturn		+Antares		+Spica		+Jupiter		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	10°33.0'	3218	24°38.3'	3402	69°15.1'	3066	78°39.8'	3069	64°48.5'	3378
1	11°01.6'	3199	25°05.7'	3387	69°44.7'	3065	79°09.4'	3067	64°20.9'	3380
2	11°30.3'	3182	25°33.2'	3373	70°14.3'	3063	79°39.0'	3066	63°53.3'	3381
3	11°59.2'	3167	26°00.8'	3360	70°44.0'	3062	80°08.6'	3064	63°25.8'	3383
4	12°28.1'	3153	26°28.5'	3347	71°13.6'	3060	80°38.2'	3063	62°58.3'	3384
5	12°57.1'	3141	26°56.2'	3335	71°43.3'	3058	81°07.9'	3062	62°30.7'	3386
6	13°26.2'	3130	27°24.1'	3323	72°13.0'	3057	81°37.5'	3060	62°03.2'	3388
7	13°55.4'	3120	27°52.0'	3312	72°42.6'	3055	82°07.2'	3059	61°35.7'	3390
8	14°24.7'	3110	28°20.0'	3301	73°12.3'	3053	82°36.8'	3057	61°08.2'	3392
9	14°54.0'	3102	28°48.0'	3291	73°42.0'	3052	83°06.5'	3056	60°40.7'	3394
10	15°23.4'	3094	29°16.2'	3281	74°11.7'	3050	83°36.2'	3054	60°13.3'	3396
11	15°52.8'	3086	29°44.3'	3272	74°41.5'	3048	84°05.9'	3053	59°45.8'	3398
12	16°22.3'	3080	30°12.6'	3263	75°11.2'	3046	84°35.6'	3051	59°18.4'	3401
13	16°51.8'	3073	30°40.9'	3254	75°41.0'	3045	85°05.3'	3049	58°51.0'	3403
14	17°21.4'	3067	31°09.2'	3246	76°10.7'	3043	85°35.1'	3048	58°23.6'	3406
15	17°51.0'	3061	31°37.7'	3238	76°40.5'	3041	86°04.8'	3046	57°56.2'	3408
16	18°20.6'	3056	32°06.1'	3230	77°10.3'	3039	86°34.6'	3045	57°28.8'	3411
17	18°50.3'	3051	32°34.7'	3222	77°40.1'	3038	87°04.3'	3043	57°01.5'	3414
18	19°20.0'	3046	33°03.2'	3215	78°09.9'	3036	87°34.1'	3041	56°34.1'	3417
19	19°49.8'	3041	33°31.8'	3208	78°39.7'	3034	88°03.9'	3040	56°06.8'	3420
20	20°19.6'	3037	34°00.5'	3201	79°09.6'	3032	88°33.7'	3038	55°39.5'	3423
21	20°49.4'	3033	34°29.2'	3194	79°39.4'	3030	89°03.5'	3036	55°12.2'	3427
22	21°19.2'	3029	34°58.0'	3188	80°09.3'	3029	89°33.3'	3034	54°45.0'	3430
23	21°49.1'	3025	35°26.8'	3181	80°39.1'	3027	90°03.2'	3033	54°17.7'	3434

Sun Jul 9, 2017 UTC

UTC	+Saturn		+Antares		-Formalhaut		+Spica		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	22°19.0'	3021	35°55.6'	3175	53°50.5'	3438	81°09.0'	3025	90°33.0'	3031
1	22°48.9'	3017	36°24.5'	3169	53°23.3'	3442	81°38.9'	3023	91°02.9'	3029
2	23°18.9'	3013	36°53.4'	3163	52°56.2'	3446	82°08.8'	3021	91°32.7'	3027
3	23°48.9'	3010	37°22.4'	3158	52°29.0'	3450	82°38.8'	3019	92°02.6'	3026
4	24°18.9'	3007	37°51.4'	3152	52°01.9'	3455	83°08.7'	3017	92°32.5'	3024
5	24°48.9'	3003	38°20.4'	3147	51°34.8'	3459	83°38.7'	3015	93°02.4'	3022
6	25°19.0'	3000	38°49.5'	3141	51°07.8'	3464	84°08.6'	3014	93°32.3'	3020
7	25°49.0'	2997	39°18.6'	3136	50°40.7'	3469	84°38.6'	3012	94°02.3'	3018
8	26°19.1'	2994	39°47.7'	3131	50°13.8'	3474	85°08.6'	3010	94°32.2'	3016
9	26°49.2'	2991	40°16.9'	3126	49°46.8'	3480	85°38.6'	3008	95°02.2'	3015
10	27°19.4'	2988	40°46.1'	3121	49°19.9'	3485	86°08.6'	3006	95°32.1'	3013
11	27°49.5'	2985	41°15.4'	3117	48°53.0'	3491	86°38.6'	3004	96°02.1'	3011
12	28°19.7'	2982	41°44.7'	3112	48°26.1'	3498	87°08.7'	3002	96°32.1'	3009
13	28°49.9'	2979	42°14.0'	3107	47°59.3'	3504	87°38.7'	3000	97°02.1'	3007
14	29°20.1'	2976	42°43.3'	3103	47°32.5'	3511	88°08.8'	2998	97°32.2'	3005
15	29°50.4'	2973	43°12.7'	3098	47°05.8'	3518	88°38.9'	2996	98°02.2'	3003
16	30°20.6'	2970	43°42.1'	3094	46°39.1'	3525	89°09.0'	2994	98°32.2'	3001
17	30°50.9'	2967	44°11.5'	3090	46°12.5'	3532	89°39.1'	2992	99°02.3'	2999
18	31°21.2'	2965	44°40.9'	3085	45°45.9'	3540	90°09.2'	2990	99°32.4'	2997
19	31°51.5'	2962	45°10.4'	3081	45°19.3'	3548	90°39.4'	2988	100°02.5'	2995
20	32°21.9'	2959	45°39.9'	3077	44°52.8'	3557	91°09.5'	2986	100°32.6'	2993
21	32°52.2'	2957	46°09.5'	3073	44°26.3'	3566	91°39.7'	2984	101°02.7'	2991
22	33°22.6'	2954	46°39.1'	3069	43°59.9'	3575	92°09.9'	2982	101°32.8'	2989
23	33°53.0'	2951	47°08.7'	3065	43°33.6'	3584	92°40.1'	2980	102°03.0'	2987

Mon Jul 10, 2017 UTC

UTC	+Saturn		+Antares		-Formalhaut		+Spica		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	34°23.4'	2949	47°38.3'	3061	43°07.3'	3594	93°10.3'	2978	102°33.1'	2985
1	34°53.8'	2946	48°07.9'	3057	42°41.1'	3605	93°40.5'	2975	103°03.3'	2983
2	35°24.3'	2943	48°37.6'	3053	42°14.9'	3616	94°10.8'	2973	103°33.5'	2981
3	35°54.7'	2941	49°07.3'	3050	41°48.8'	3627	94°41.0'	2971	104°03.7'	2979
4	36°25.2'	2938	49°37.1'	3046	41°22.8'	3639	95°11.3'	2969	104°33.9'	2977
5	36°55.7'	2935	50°06.8'	3042	40°56.8'	3651	95°41.6'	2967	105°04.2'	2974
6	37°26.2'	2933	50°36.6'	3038	40°31.0'	3664	96°11.9'	2965	105°34.4'	2972
7	37°56.8'	2930	51°06.4'	3035	40°05.1'	3677	96°42.2'	2963	106°04.7'	2970
8	38°27.3'	2928	51°36.2'	3031	39°39.4'	3691	97°12.5'	2961	106°35.0'	2968
9	38°57.9'	2925	52°06.1'	3028	39°13.8'	3706	97°42.9'	2958	107°05.3'	2966
10	39°28.5'	2923	52°36.0'	3024	38°48.2'	3721	98°13.2'	2956	107°35.6'	2964
11	39°59.1'	2920	53°05.9'	3021	38°22.7'	3737	98°43.6'	2954	108°05.9'	2961
12	40°29.7'	2917	53°35.8'	3017	37°57.4'	3753	99°14.0'	2952	108°36.2'	2959
13	41°00.4'	2915	54°05.8'	3014	37°32.1'	3771	99°44.4'	2950	109°06.6'	2957
14	41°31.1'	2912	54°35.7'	3010	37°06.9'	3789	100°14.8'	2948	109°37.0'	2955
15	42°01.7'	2910	55°05.7'	3007	36°41.8'	3808	100°45.3'	2945	110°07.3'	2953
16	42°32.5'	2907	55°35.8'	3003	36°16.8'	3827	101°15.7'	2943	110°37.7'	2950
17	43°03.2'	2904	56°05.8'	3000	35°52.0'	3848	101°46.2'	2941	111°08.2'	2948
18	43°33.9'	2902	56°35.9'	2997	35°27.3'	3870	102°16.7'	2939	111°38.6'	2946
19	44°04.7'	2899	57°06.0'	2993	35°02.6'	3892	102°47.2'	2937	112°09.0'	2944
20	44°35.4'	2897	57°36.1'	2990	34°38.2'	3916	103°17.7'	2934	112°39.5'	2941
21	45°06.2'	2894	58°06.2'	2987	34°13.8'	3941	103°48.2'	2932	113°10.0'	2939
22	45°37.1'	2892	58°36.4'	2983	33°49.6'	3967	104°18.7'	2930	113°40.5'	2937
23	46°07.9'	2889	59°06.6'	2980	33°25.5'	3994	104°49.3'	2928	114°11.0'	2934

Tue Jul 11, 2017 UTC

UTC	+Saturn		+Antares		-Formalhaut		+Spica		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	46°38.7'	2886	59°36.8'	2977	33°01.6'	4023	105°19.9'	2925	114°41.5'	2932
1	47°09.6'	2884	60°07.0'	2973	32°37.8'	4052	105°50.5'	2923	115°12.1'	2930
2	47°40.5'	2881	60°37.3'	2970	32°14.2'	4084	106°21.1'	2921	115°42.6'	2927
3	48°11.4'	2878	61°07.6'	2967	31°50.8'	4117	106°51.7'	2919	116°13.2'	2925
4	48°42.3'	2876	61°37.9'	2964	31°27.6'	4152	107°22.4'	2916	116°43.8'	2923
5	49°13.3'	2873	62°08.2'	2961	31°04.5'	4188	107°53.0'	2914	117°14.4'	2920
6	49°44.2'	2871	62°38.5'	2957	30°41.6'	4226	108°23.7'	2912	117°45.1'	2918
7	50°15.2'	2868	63°08.9'	2954	30°18.9'	4266	108°54.4'	2909	118°15.7'	2915
8	50°46.2'	2865	63°39.3'	2951	29°56.5'	4309	109°25.1'	2907	118°46.4'	2913
9	51°17.2'	2863	64°09.7'	2948	29°34.2'	4353	109°55.8'	2905	119°17.0'	2910
10	51°48.3'	2860	64°40.1'	2945	29°12.2'	4400	110°26.5'	2903	119°47.7'	2908
11	52°19.3'	2857	65°10.6'	2942	28°50.4'	4450	110°57.3'	2900	120°18.5'	2906
12	52°50.4'	2855	65°41.1'	2938	28°28.9'	4502	111°28.1'	2898	120°49.2'	2903
13	53°21.5'	2852	66°11.6'	2935	28°07.6'	4557	111°58.8'	2896	121°19.9'	2901
14	53°52.6'	2849	66°42.1'	2932	27°46.6'	4615	112°29.6'	2893	121°50.7'	2898
15	54°23.7'	2847	67°12.6'	2929	27°25.9'	4676	113°00.5'	2891	122°21.5'	2896
16	54°54.9'	2844	67°43.2'	2926	27°05.4'	4741	113°31.3'	2889	122°52.3'	2893
17	55°26.1'	2841	68°13.8'	2923	26°45.3'	4810	114°02.2'	2886	123°23.1'	2891
18	55°57.3'	2838	68°44.4'	2920	26°25.5'	4882	114°33.0'	2884	123°54.0'	2888
19	56°28.5'	2836	69°15.0'	2916	26°06.0'	4959	115°03.9'	2881	124°24.8'	2886
20	56°59.7'	2833	69°45.7'	2913	25°46.8'	5041	115°34.8'	2879	124°55.7'	2883
21	57°31.0'	2830	70°16.4'	2910	25°28.0'	5127	116°05.7'	2877	125°26.6'	2880
22	58°02.2'	2827	70°47.1'	2907	25°09.6'	5219	116°36.7'	2874	125°57.5'	2878
23	58°33.5'	2825	71°17.8'	2904	24°51.5'	5317	117°07.6'	2872	126°28.4'	2875

Wed Jul 12, 2017 UTC

UTC	+Saturn		+Antares		-Aldebaran		+Spica		-Venus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	59°04.8'	2822	71°48.5'	2901	108°13.8'	2834	117°38.6'	2870	105°59.3'	3244
1	59°36.2'	2819	72°19.3'	2898	107°42.5'	2831	118°09.6'	2867	105°30.9'	3241
2	60°07.5'	2816	72°50.1'	2895	107°11.3'	2828	118°40.6'	2865	105°02.4'	3238
3	60°38.9'	2813	73°20.9'	2891	106°40.0'	2825	119°11.6'	2863	104°34.0'	3235
4	61°10.3'	2810	73°51.7'	2888	106°08.7'	2822	119°42.6'	2860	104°05.5'	3232
5	61°41.7'	2808	74°22.6'	2885	105°37.3'	2820	120°13.7'	2858	103°37.0'	3229
6	62°13.1'	2805	74°53.5'	2882	105°06.0'	2817	120°44.8'	2855	103°08.4'	3226
7	62°44.6'	2802	75°24.4'	2879	104°34.6'	2814	121°15.9'	2853	102°39.9'	3223
8	63°16.0'	2799	75°55.3'	2876	104°03.2'	2811	121°47.0'	2851	102°11.3'	3220
9	63°47.5'	2796	76°26.2'	2873	103°31.8'	2808	122°18.1'	2848	101°42.7'	3217
10	64°19.1'	2793	76°57.2'	2870	103°00.4'	2806	122°49.2'	2846	101°14.1'	3214
11	64°50.6'	2790	77°28.2'	2866	102°29.0'	2803	123°20.4'	2843	100°45.5'	3210
12	65°22.2'	2787	77°59.2'	2863	101°57.5'	2800	123°51.6'	2841	100°16.9'	3207
13	65°53.7'	2784	78°30.2'	2860	101°26.0'	2797	124°22.8'	2839	99°48.2'	3204
14	66°25.3'	2781	79°01.3'	2857	100°54.5'	2794	124°54.0'	2836	99°19.5'	3201
15	66°57.0'	2778	79°32.4'	2854	100°22.9'	2791	125°25.2'	2834	98°50.8'	3198
16	67°28.6'	2775	80°03.5'	2851	99°51.4'	2788	125°56.4'	2832	98°22.0'	3195
17	68°00.3'	2772	80°34.6'	2848	99°19.8'	2785	126°27.7'	2829	97°53.3'	3191
18	68°32.0'	2769	81°05.7'	2844	98°48.2'	2782	126°59.0'	2827	97°24.5'	3188
19	69°03.7'	2766	81°36.9'	2841	98°16.6'	2779	127°30.3'	2825	96°55.7'	3185
20	69°35.4'	2763	82°08.1'	2838	97°45.0'	2776	128°01.6'	2822	96°26.9'	3182
21	70°07.2'	2760	82°39.3'	2835	97°13.3'	2773	128°32.9'	2820	95°58.1'	3178
22	70°38.9'	2757	83°10.5'	2832	96°41.6'	2770	129°04.3'	2818	95°29.2'	3175
23	71°10.7'	2754	83°41.8'	2829	96°09.9'	2767	129°35.6'	2815	95°00.3'	3172

Thu Jul 13, 2017 UTC

UTC	+Saturn		+Antares		-Aldebaran		-Betelgeuse		-Venus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	71°42.6'	2751	84°13.1'	2825	95°38.2'	2764	113°25.3'	2872	94°31.4'	3168
1	72°14.4'	2748	84°44.4'	2822	95°06.4'	2761	112°54.3'	2868	94°02.5'	3165
2	72°46.3'	2745	85°15.7'	2819	94°34.7'	2758	112°23.3'	2864	93°33.5'	3162
3	73°18.2'	2742	85°47.1'	2816	94°02.9'	2755	111°52.3'	2861	93°04.6'	3158
4	73°50.1'	2739	86°18.4'	2813	93°31.0'	2751	111°21.3'	2857	92°35.6'	3155
5	74°22.0'	2736	86°49.8'	2809	92°59.2'	2748	110°50.2'	2853	92°06.6'	3152
6	74°54.0'	2732	87°21.2'	2806	92°27.3'	2745	110°19.1'	2849	91°37.5'	3148
7	75°26.0'	2729	87°52.7'	2803	91°55.4'	2742	109°47.9'	2845	91°08.5'	3145
8	75°58.0'	2726	88°24.2'	2800	91°23.5'	2739	109°16.8'	2841	90°39.4'	3141
9	76°30.0'	2723	88°55.6'	2797	90°51.6'	2736	108°45.6'	2837	90°10.3'	3138
10	77°02.0'	2720	89°27.2'	2793	90°19.6'	2732	108°14.3'	2833	89°41.1'	3134
11	77°34.1'	2716	89°58.7'	2790	89°47.7'	2729	107°43.1'	2830	89°12.0'	3131
12	78°06.2'	2713	90°30.3'	2787	89°15.7'	2726	107°11.8'	2826	88°42.8'	3127
13	78°38.3'	2710	91°01.8'	2784	88°43.6'	2723	106°40.5'	2822	88°13.6'	3124
14	79°10.5'	2706	91°33.4'	2780	88°11.6'	2719	106°09.2'	2818	87°44.4'	3120
15	79°42.7'	2703	92°05.1'	2777	87°39.5'	2716	105°37.8'	2814	87°15.1'	3116
16	80°14.9'	2700	92°36.7'	2774	87°07.4'	2713	105°06.4'	2810	86°45.8'	3113
17	80°47.1'	2696	93°08.4'	2771	86°35.3'	2709	104°35.0'	2807	86°16.5'	3109
18	81°19.3'	2693	93°40.1'	2767	86°03.1'	2706	104°03.6'	2803	85°47.2'	3106
19	81°51.6'	2690	94°11.8'	2764	85°30.9'	2703	103°32.1'	2799	85°17.9'	3102
20	82°23.9'	2686	94°43.6'	2761	84°58.7'	2699	103°00.6'	2795	84°48.5'	3098
21	82°56.2'	2683	95°15.4'	2757	84°26.5'	2696	102°29.1'	2791	84°19.1'	3095
22	83°28.6'	2680	95°47.2'	2754	83°54.2'	2692	101°57.6'	2787	83°49.7'	3091
23	84°01.0'	2676	96°19.0'	2751	83°22.0'	2689	101°26.0'	2784	83°20.2'	3087

Fri Jul 14, 2017 UTC

UTC	-Aldebaran		+Saturn		+Antares		-Betelgeuse		+Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	82°49.7'	2685	84°33.4'	2673	96°50.8'	2747	100°54.4'	2780	53°12.3'	3535
1	82°17.3'	2682	85°05.8'	2669	97°22.7'	2744	100°22.7'	2776	53°38.9'	3520
2	81°45.0'	2678	85°38.2'	2666	97°54.6'	2741	99°51.1'	2772	54°05.6'	3505
3	81°12.6'	2675	86°10.7'	2662	98°26.5'	2737	99°19.4'	2768	54°32.3'	3491
4	80°40.2'	2671	86°43.2'	2659	98°58.5'	2734	98°47.7'	2765	54°59.2'	3476
5	80°07.7'	2668	87°15.7'	2655	99°30.4'	2731	98°15.9'	2761	55°26.1'	3462
6	79°35.3'	2664	87°48.3'	2652	100°02.4'	2727	97°44.1'	2757	55°53.2'	3448
7	79°02.8'	2661	88°20.9'	2648	100°34.4'	2724	97°12.3'	2753	56°20.3'	3435
8	78°30.3'	2657	88°53.5'	2645	101°06.5'	2721	96°40.5'	2749	56°47.5'	3422
9	77°57.7'	2654	89°26.1'	2641	101°38.6'	2717	96°08.7'	2746	57°14.8'	3409
10	77°25.2'	2650	89°58.8'	2638	102°10.7'	2714	95°36.8'	2742	57°42.2'	3396
11	76°52.6'	2646	90°31.5'	2634	102°42.8'	2711	95°04.9'	2738	58°09.6'	3384
12	76°20.0'	2643	91°04.2'	2630	103°14.9'	2707	94°32.9'	2734	58°37.1'	3372
13	75°47.3'	2639	91°36.9'	2627	103°47.1'	2704	94°01.0'	2731	59°04.7'	3360
14	75°14.6'	2635	92°09.7'	2623	104°19.3'	2701	93°29.0'	2727	59°32.4'	3348
15	74°41.9'	2632	92°42.5'	2619	104°51.5'	2697	92°56.9'	2723	60°00.2'	3336
16	74°09.2'	2628	93°15.3'	2616	105°23.7'	2694	92°24.9'	2719	60°28.0'	3325
17	73°36.4'	2624	93°48.2'	2612	105°56.0'	2691	91°52.8'	2715	60°55.9'	3314
18	73°03.6'	2620	94°21.1'	2608	106°28.3'	2687	91°20.7'	2712	61°23.9'	3303
19	72°30.8'	2617	94°54.0'	2605	107°00.6'	2684	90°48.6'	2708	61°51.9'	3292
20	71°58.0'	2613	95°26.9'	2601	107°33.0'	2680	90°16.4'	2704	62°20.0'	3282
21	71°25.1'	2609	95°59.9'	2597	108°05.3'	2677	89°44.2'	2700	62°48.2'	3271
22	70°52.2'	2605	96°32.9'	2593	108°37.7'	2674	89°12.0'	2696	63°16.5'	3261
23	70°19.3'	2601	97°05.9'	2590	109°10.1'	2670	88°39.7'	2693	63°44.8'	3251

Sat Jul 15, 2017 UTC

UTC	-Sun		-Aldebaran		-Betelgeuse		+Saturn		-Venus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	112°36.4'	2929	69°46.3'	2598	88°07.5'	2689	97°38.9'	2586	70°55.5'	2989
1	112°05.8'	2925	69°13.3'	2594	87°35.1'	2685	98°12.0'	2582	70°25.3'	2985
2	111°35.2'	2921	68°40.3'	2590	87°02.8'	2681	98°45.1'	2578	69°55.1'	2981
3	111°04.6'	2916	68°07.2'	2586	86°30.5'	2677	99°18.3'	2574	69°24.9'	2976
4	110°33.9'	2912	67°34.2'	2582	85°58.1'	2674	99°51.4'	2570	68°54.7'	2972
5	110°03.2'	2908	67°01.1'	2578	85°25.6'	2670	100°24.6'	2567	68°24.4'	2968
6	109°32.5'	2903	66°27.9'	2574	84°53.2'	2666	100°57.9'	2563	67°54.1'	2964
7	109°01.8'	2899	65°54.8'	2570	84°20.7'	2662	101°31.1'	2559	67°23.8'	2960
8	108°31.0'	2895	65°21.6'	2566	83°48.2'	2659	102°04.4'	2555	66°53.5'	2955
9	108°00.2'	2890	64°48.3'	2562	83°15.7'	2655	102°37.7'	2551	66°23.1'	2951
10	107°29.4'	2886	64°15.1'	2558	82°43.1'	2651	103°11.1'	2547	65°52.7'	2947
11	106°58.5'	2882	63°41.8'	2554	82°10.5'	2647	103°44.4'	2543	65°22.2'	2942
12	106°27.6'	2877	63°08.5'	2550	81°37.9'	2644	104°17.8'	2539	64°51.7'	2938
13	105°56.7'	2873	62°35.1'	2546	81°05.3'	2640	104°51.3'	2535	64°21.2'	2934
14	105°25.7'	2869	62°01.7'	2542	80°32.6'	2636	105°24.8'	2531	63°50.7'	2930
15	104°54.7'	2864	61°28.3'	2538	79°59.9'	2632	105°58.2'	2527	63°20.1'	2925
16	104°23.7'	2860	60°54.9'	2534	79°27.2'	2629	106°31.8'	2523	62°49.6'	2921
17	103°52.6'	2855	60°21.4'	2530	78°54.4'	2625	107°05.3'	2519	62°18.9'	2916
18	103°21.5'	2851	59°47.9'	2526	78°21.6'	2621	107°38.9'	2515	61°48.3'	2912
19	102°50.4'	2846	59°14.3'	2522	77°48.8'	2617	108°12.5'	2511	61°17.6'	2908
20	102°19.2'	2842	58°40.8'	2518	77°16.0'	2614	108°46.2'	2507	60°46.9'	2903
21	101°48.1'	2837	58°07.2'	2514	76°43.1'	2610	109°19.9'	2503	60°16.1'	2899
22	101°16.8'	2833	57°33.5'	2510	76°10.2'	2606	109°53.6'	2499	59°45.3'	2895
23	100°45.6'	2828	56°59.9'	2505	75°37.3'	2603	110°27.3'	2495	59°14.5'	2890

Sun Jul 16, 2017 UTC

UTC	-Sun		-Aldebaran		-Betelgeuse		-Venus		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	100°14.3'	2824	56°26.2'	2501	75°04.4'	2599	58°43.7'	2886	41°51.0'	3169
1	99°43.0'	2819	55°52.4'	2497	74°31.4'	2595	58°12.8'	2881	42°19.9'	3151
2	99°11.6'	2815	55°18.7'	2493	73°58.4'	2592	57°41.9'	2877	42°48.9'	3133
3	98°40.3'	2810	54°44.9'	2489	73°25.3'	2588	57°11.0'	2872	43°18.1'	3115
4	98°08.8'	2806	54°11.1'	2485	72°52.3'	2585	56°40.0'	2868	43°47.4'	3098
5	97°37.4'	2801	53°37.2'	2480	72°19.2'	2581	56°09.0'	2863	44°16.8'	3082
6	97°05.9'	2797	53°03.3'	2476	71°46.1'	2578	55°38.0'	2859	44°46.3'	3066
7	96°34.4'	2792	52°29.4'	2472	71°12.9'	2574	55°06.9'	2854	45°15.9'	3050
8	96°02.9'	2787	51°55.4'	2468	70°39.8'	2570	54°35.8'	2850	45°45.6'	3035
9	95°31.3'	2783	51°21.4'	2463	70°06.6'	2567	54°04.7'	2845	46°15.5'	3020
10	94°59.7'	2778	50°47.4'	2459	69°33.3'	2563	53°33.5'	2841	46°45.4'	3005
11	94°28.0'	2774	50°13.3'	2455	69°00.1'	2560	53°02.3'	2836	47°15.4'	2991
12	93°56.3'	2769	49°39.2'	2451	68°26.8'	2557	52°31.1'	2832	47°45.6'	2977
13	93°24.6'	2764	49°05.1'	2446	67°53.5'	2553	51°59.8'	2827	48°15.8'	2964
14	92°52.9'	2760	48°31.0'	2442	67°20.2'	2550	51°28.6'	2823	48°46.1'	2951
15	92°21.1'	2755	47°56.8'	2438	66°46.8'	2546	50°57.2'	2818	49°16.5'	2938
16	91°49.3'	2751	47°22.5'	2434	66°13.4'	2543	50°25.9'	2814	49°47.0'	2925
17	91°17.4'	2746	46°48.3'	2429	65°40.0'	2540	49°54.5'	2809	50°17.6'	2913
18	90°45.6'	2741	46°14.0'	2425	65°06.6'	2537	49°23.1'	2805	50°48.3'	2900
19	90°13.6'	2737	45°39.7'	2421	64°33.1'	2533	48°51.6'	2800	51°19.1'	2889
20	89°41.7'	2732	45°05.3'	2416	63°59.6'	2530	48°20.1'	2796	51°49.9'	2877
21	89°09.7'	2727	44°30.9'	2412	63°26.1'	2527	47°48.6'	2791	52°20.9'	2866
22	88°37.7'	2723	43°56.5'	2408	62°52.6'	2524	47°17.1'	2787	52°51.9'	2854
23	88°05.6'	2718	43°22.0'	2404	62°19.1'	2521	46°45.5'	2782	53°23.0'	2844

Mon Jul 17, 2017 UTC

UTC	−Sun		−Aldebaran		−Betelgeuse		−Venus		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	87°33.5'	2713	42°47.5'	2399	61°45.5'	2518	46°13.9'	2778	53°54.2'	2833
1	87°01.4'	2709	42°13.0'	2395	61°11.9'	2515	45°42.2'	2773	54°25.4'	2822
2	86°29.3'	2704	41°38.4'	2391	60°38.2'	2512	45°10.5'	2769	54°56.7'	2812
3	85°57.1'	2700	41°03.8'	2386	60°04.6'	2509	44°38.8'	2764	55°28.1'	2802
4	85°24.8'	2695	40°29.2'	2382	59°30.9'	2506	44°07.1'	2760	55°59.6'	2792
5	84°52.6'	2690	39°54.5'	2378	58°57.2'	2503	43°35.3'	2756	56°31.2'	2782
6	84°20.3'	2686	39°19.8'	2373	58°23.5'	2501	43°03.5'	2751	57°02.8'	2773
7	83°48.0'	2681	38°45.1'	2369	57°49.8'	2498	42°31.6'	2747	57°34.5'	2763
8	83°15.6'	2676	38°10.3'	2365	57°16.0'	2495	41°59.8'	2742	58°06.2'	2754
9	82°43.2'	2672	37°35.5'	2361	56°42.2'	2493	41°27.8'	2738	58°38.1'	2745
10	82°10.8'	2667	37°00.6'	2356	56°08.4'	2490	40°55.9'	2733	59°09.9'	2736
11	81°38.3'	2663	36°25.8'	2352	55°34.6'	2488	40°23.9'	2729	59°41.9'	2727
12	81°05.8'	2658	35°50.8'	2348	55°00.8'	2486	39°51.9'	2725	60°13.9'	2718
13	80°33.3'	2653	35°15.9'	2343	54°26.9'	2483	39°19.9'	2720	60°46.0'	2710
14	80°00.7'	2649	34°40.9'	2339	53°53.1'	2481	38°47.8'	2716	61°18.2'	2702
15	79°28.1'	2644	34°05.9'	2335	53°19.2'	2479	38°15.7'	2712	61°50.4'	2693
16	78°55.5'	2640	33°30.9'	2331	52°45.3'	2477	37°43.6'	2707	62°22.6'	2685
17	78°22.8'	2635	32°55.8'	2326	52°11.4'	2475	37°11.4'	2703	62°55.0'	2677
18	77°50.1'	2630	32°20.7'	2322	51°37.4'	2473	36°39.2'	2699	63°27.4'	2670
19	77°17.3'	2626	31°45.5'	2318	51°03.5'	2472	36°07.0'	2695	63°59.8'	2662
20	76°44.6'	2621	31°10.3'	2314	50°29.5'	2470	35°34.7'	2691	64°32.3'	2654
21	76°11.7'	2617	30°35.1'	2310	49°55.5'	2468	35°02.4'	2686	65°04.9'	2647
22	75°38.9'	2612	29°59.9'	2305	49°21.6'	2467	34°30.1'	2682	65°37.5'	2640
23	75°06.0'	2608	29°24.6'	2301	48°47.6'	2466	33°57.7'	2678	66°10.2'	2632

Tue Jul 18, 2017 UTC

UTC	−Sun		−Aldebaran		−Betelgeuse		−Venus		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	74°33.1'	2603	28°49.2'	2297	48°13.6'	2465	33°25.4'	2674	66°42.9'	2625
1	74°00.2'	2599	28°13.9'	2293	47°39.5'	2464	32°53.0'	2670	67°15.7'	2618
2	73°27.2'	2594	27°38.5'	2289	47°05.5'	2463	32°20.5'	2666	67°48.5'	2611
3	72°54.2'	2590	27°03.1'	2285	46°31.5'	2462	31°48.0'	2662	68°21.4'	2605
4	72°21.1'	2586	26°27.6'	2281	45°57.5'	2462	31°15.5'	2658	68°54.3'	2598
5	71°48.0'	2581	25°52.1'	2276	45°23.4'	2461	30°43.0'	2654	69°27.3'	2591
6	71°14.9'	2577	25°16.6'	2272	44°49.4'	2461	30°10.4'	2651	70°00.4'	2585
7	70°41.8'	2573	24°41.1'	2268	44°15.3'	2461	29°37.8'	2647	70°33.4'	2579
8	70°08.6'	2568	24°05.5'	2264	43°41.3'	2461	29°05.2'	2643	71°06.6'	2572
9	69°35.4'	2564	23°29.9'	2260	43°07.2'	2462	28°32.6'	2640	71°39.8'	2566
10	69°02.1'	2560	22°54.2'	2256	42°33.2'	2462	27°59.9'	2636	72°13.0'	2560
11	68°28.9'	2555	22°18.5'	2252	41°59.2'	2463	27°27.2'	2633	72°46.3'	2554
12	67°55.5'	2551	21°42.8'	2249	41°25.1'	2464	26°54.5'	2629	73°19.6'	2548
13	67°22.2'	2547	21°07.0'	2245	40°51.1'	2466	26°21.7'	2626	73°53.0'	2542
14	66°48.8'	2543	20°31.3'	2241	40°17.1'	2467	25°49.0'	2623	74°26.4'	2537
15	66°15.4'	2538	19°55.4'	2237	39°43.1'	2469	25°16.2'	2620	74°59.8'	2531
16	65°42.0'	2534	19°19.6'	2233	39°09.1'	2471	24°43.3'	2617	75°33.3'	2526
17	65°08.5'	2530	18°43.7'	2229	38°35.2'	2474	24°10.5'	2614	76°06.9'	2520
18	64°35.0'	2526	18°07.8'	2226	38°01.2'	2477	23°37.6'	2611	76°40.5'	2515
19	64°01.4'	2522	17°31.9'	2222	37°27.3'	2480	23°04.7'	2608	77°14.1'	2510
20	63°27.9'	2518	16°55.9'	2218	36°53.4'	2483	22°31.8'	2606	77°47.7'	2505
21	62°54.3'	2514	16°19.9'	2214	36°19.5'	2487	21°58.9'	2603	78°21.4'	2500
22	62°20.6'	2510	15°43.8'	2211	35°45.7'	2492	21°25.9'	2601	78°55.2'	2495
23	61°47.0'	2506	15°07.8'	2207	35°11.9'	2497	20°53.0'	2599	79°29.0'	2490

Wed Jul 19, 2017 UTC

UTC	-Sun		-Aldebaran		-Venus		-Betelgeuse		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	61°13.3'	2502	14°31.7'	2204	20°20.0'	2597	34°38.1'	2502	80°02.8'	2485
1	60°39.6'	2498	13°55.6'	2200	19°47.0'	2596	34°04.4'	2508	80°36.6'	2481
2	60°05.8'	2495	13°19.4'	2197	19°14.0'	2594	33°30.7'	2514	81°10.5'	2476
3	59°32.0'	2491	12°43.2'	2194	18°41.0'	2593	32°57.1'	2521	81°44.5'	2472
4	58°58.2'	2487	12°07.0'	2190	18°08.0'	2592	32°23.5'	2529	82°18.4'	2467
5	58°24.4'	2483	11°30.8'	2187	17°34.9'	2592	31°50.0'	2537	82°52.4'	2463
6	57°50.5'	2480	10°54.5'	2184	17°01.9'	2592	31°16.6'	2546	83°26.4'	2459
7	57°16.6'	2476	10°18.3'	2181	16°28.9'	2592	30°43.2'	2556	84°00.5'	2455
8	56°42.7'	2472	9°41.9'	2178	15°55.8'	2593	30°09.9'	2567	84°34.6'	2451
9	56°08.7'	2469	9°05.6'	2176	15°22.8'	2594	29°36.6'	2578	85°08.7'	2447
10	55°34.7'	2465	8°29.2'	2173	14°49.8'	2596	29°03.5'	2591	85°42.9'	2443
11	55°00.7'	2462	7°52.9'	2171	14°16.8'	2599	28°30.5'	2605	86°17.1'	2440
12	54°26.7'	2458	7°16.5'	2169	13°43.8'	2603	27°57.5'	2619	86°51.3'	2436
13	53°52.6'	2455	6°40.1'	2167	13°10.9'	2607	27°24.7'	2635	87°25.5'	2433
14	53°18.5'	2452	6°03.6'	2166	12°37.9'	2613	26°52.0'	2653	87°59.8'	2429
15	52°44.4'	2448	5°27.2'	2166	12°05.1'	2620	26°19.4'	2672	88°34.1'	2426
16	52°10.3'	2445	4°50.8'	2168	11°32.3'	2629	25°47.0'	2692	89°08.4'	2423
17	51°36.1'	2442	4°14.3'	2171	10°59.5'	2639	25°14.7'	2714	89°42.7'	2420
18	51°01.9'	2439	3°37.9'	2179	10°26.8'	2652	24°42.6'	2738	90°17.1'	2417
19	50°27.7'	2436	3°01.6'	2195	9°54.2'	2668	24°10.6'	2764	90°51.5'	2414
20	49°53.4'	2433	2°25.4'	2230	9°21.8'	2688	23°38.9'	2793	91°25.9'	2411
21	49°19.2'	2430	1°49.5'	2321	8°49.5'	2713	23°07.4'	2824	92°00.4'	2408
22	48°44.9'	2427	-	-	8°17.3'	2743	22°36.0'	2858	92°34.8'	2406
23	48°10.6'	2424	-	-	7°45.4'	2782	22°05.0'	2894	93°09.3'	2403

Thu Jul 20, 2017 UTC

UTC	-Sun		-Venus		-Betelgeuse		+Formalhaut		-Sirius	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	47°36.2'	2421	7°13.8'	2830	21°34.2'	2935	93°43.8'	2401	46°20.2'	4521
1	47°01.9'	2418	6°42.6'	2893	21°03.6'	2979	94°18.3'	2399	45°59.0'	4571
2	46°27.5'	2416	6°11.7'	2975	20°33.4'	3027	94°52.9'	2397	45°38.1'	4623
3	45°53.1'	2413	5°41.5'	3085	20°03.5'	3080	95°27.4'	2395	45°17.4'	4677
4	45°18.7'	2410	-	-	19°34.0'	3137	96°02.0'	2393	44°56.9'	4734
5	44°44.2'	2408	-	-	19°04.9'	3201	96°36.6'	2391	44°36.7'	4793
6	44°09.8'	2405	-	-	18°36.2'	3271	97°11.2'	2389	44°16.8'	4854
7	43°35.3'	2403	-	-	18°07.9'	3349	97°45.8'	2388	43°57.2'	4918
8	43°00.8'	2401	-	-	17°40.2'	3435	98°20.4'	2386	43°37.9'	4984
9	42°26.2'	2398	-	-	17°13.0'	3530	98°55.0'	2385	43°18.8'	5054
10	41°51.7'	2396	-	-	16°46.3'	3635	99°29.7'	2384	43°00.1'	5126
11	41°17.1'	2394	-	-	16°20.4'	3753	100°04.3'	2383	42°41.7'	5202
12	40°42.6'	2392	-	-	15°55.1'	3884	100°39.0'	2382	42°23.6'	5280
13	40°08.0'	2390	-	-	-	-	101°13.7'	2381	42°05.8'	5363
14	39°33.4'	2388	-	-	-	-	101°48.4'	2380	41°48.3'	5448
15	38°58.8'	2386	-	-	-	-	102°23.0'	2380	41°31.2'	5538
16	38°24.1'	2384	-	-	-	-	102°57.7'	2379	41°14.4'	5632
17	37°49.5'	2382	-	-	-	-	103°32.4'	2379	40°58.0'	5730
18	37°14.8'	2381	-	-	-	-	104°07.1'	2379	40°42.0'	5833
19	36°40.1'	2379	-	-	-	-	104°41.8'	2379	40°26.3'	5940
20	36°05.4'	2378	-	-	-	-	105°16.5'	2379	40°11.1'	6053
21	35°30.7'	2376	5°54.1'	2894	-	-	105°51.2'	2379	39°56.2'	6171
22	34°56.0'	2375	6°24.9'	2816	-	-	106°25.9'	2379	39°41.7'	6295
23	34°21.3'	2374	6°56.3'	2755	-	-	107°00.6'	2380	39°27.6'	6426

Fri Jul 21, 2017 UTC

UTC	+Aldebaran		+Venus		+Formalhaut		+Achernar	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	14°52.5'	2077	7°28.1'	2706	107°35.3'	2381	90°51.7'	4735
1	15°29.7'	2076	8°00.3'	2667	108°09.9'	2382	91°11.9'	4735
2	16°06.9'	2074	8°32.8'	2634	108°44.6'	2383	91°32.0'	4735
3	16°44.1'	2073	9°05.5'	2607	109°19.3'	2384	91°52.2'	4736
4	17°21.3'	2072	9°38.4'	2585	109°53.9'	2385	92°12.4'	4737
5	17°58.5'	2071	10°11.5'	2566	110°28.6'	2387	92°32.5'	4739
6	18°35.8'	2070	10°44.7'	2550	111°03.2'	2388	92°52.7'	4741
7	19°13.0'	2069	11°18.1'	2536	111°37.8'	2390	93°12.8'	4743
8	19°50.3'	2068	11°51.6'	2523	112°12.4'	2392	93°32.9'	4746
9	20°27.6'	2067	12°25.1'	2513	112°47.0'	2394	93°53.1'	4750
10	21°04.9'	2066	12°58.8'	2503	113°21.6'	2397	94°13.2'	4753
11	21°42.1'	2065	13°32.5'	2495	113°56.2'	2399	94°33.2'	4758
12	22°19.4'	2065	14°06.2'	2488	114°30.7'	2402	94°53.3'	4762
13	22°56.7'	2064	14°40.1'	2482	115°05.2'	2405	95°13.3'	4768
14	23°34.0'	2064	15°14.0'	2476	115°39.7'	2408	95°33.4'	4773
15	24°11.3'	2063	15°47.9'	2471	116°14.1'	2411	95°53.4'	4779
16	24°48.7'	2063	16°21.9'	2466	116°48.6'	2415	96°13.3'	4786
17	25°26.0'	2063	16°55.9'	2462	117°23.0'	2419	96°33.2'	4793
18	26°03.3'	2062	17°29.9'	2459	117°57.4'	2423	96°53.1'	4800
19	26°40.6'	2062	18°04.0'	2455	118°31.7'	2427	97°13.0'	4808
20	27°17.9'	2062	18°38.1'	2453	119°06.0'	2431	97°32.8'	4817
21	27°55.2'	2062	19°12.2'	2450	119°40.3'	2436	97°52.6'	4826
22	28°32.5'	2062	19°46.3'	2448	120°14.5'	2441	98°12.4'	4835
23	29°09.9'	2063	20°20.4'	2446	120°48.8'	2446	98°32.1'	4845

Sat Jul 22, 2017 UTC

UTC	+Aldebaran		+Venus		+Betelgeuse		+Rigel	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	29°47.2'	2063	20°54.6'	2444	16°20.0'	3599	34°50.6'	4022
1	30°24.5'	2063	21°28.8'	2443	16°46.2'	3490	35°14.4'	3962
2	31°01.8'	2064	22°03.0'	2441	17°13.0'	3392	35°38.5'	3904
3	31°39.1'	2064	22°37.2'	2440	17°40.5'	3304	36°02.9'	3848
4	32°16.4'	2065	23°11.4'	2440	18°08.5'	3224	36°27.6'	3796
5	32°53.7'	2065	23°45.6'	2439	18°37.1'	3152	36°52.7'	3746
6	33°31.0'	2066	24°19.8'	2438	19°06.1'	3086	37°18.0'	3698
7	34°08.3'	2067	24°54.0'	2438	19°35.6'	3026	37°43.6'	3653
8	34°45.6'	2068	25°28.3'	2438	20°05.5'	2971	38°09.5'	3609
9	35°22.8'	2068	26°02.5'	2438	20°35.8'	2921	38°35.6'	3568
10	36°00.1'	2069	26°36.7'	2438	21°06.4'	2875	39°02.0'	3529
11	36°37.4'	2070	27°10.9'	2438	21°37.4'	2833	39°28.6'	3491
12	37°14.6'	2072	27°45.2'	2439	22°08.6'	2794	39°55.5'	3455
13	37°51.9'	2073	28°19.4'	2439	22°40.2'	2759	40°22.5'	3421
14	38°29.1'	2074	28°53.6'	2440	23°11.9'	2726	40°49.8'	3389
15	39°06.3'	2075	29°27.8'	2441	23°44.0'	2696	41°17.3'	3357
16	39°43.5'	2077	30°02.0'	2442	24°16.2'	2668	41°45.0'	3328
17	40°20.7'	2078	30°36.2'	2443	24°48.7'	2642	42°12.9'	3299
18	40°57.9'	2080	31°10.4'	2444	25°21.3'	2619	42°41.0'	3272
19	41°35.0'	2082	31°44.6'	2445	25°54.2'	2597	43°09.2'	3246
20	42°12.2'	2083	32°18.7'	2446	26°27.2'	2577	43°37.6'	3222
21	42°49.3'	2085	32°52.9'	2448	27°00.3'	2558	44°06.2'	3198
22	43°26.5'	2087	33°27.1'	2449	27°33.6'	2541	44°34.9'	3175
23	44°03.6'	2089	34°01.2'	2451	28°07.0'	2524	45°03.8'	3154

Tue Jul 25, 2017 UTC

UTC	−Regulus		−Jupiter		−Spica		−Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	6°17.1′	2263	52°18.8′	2309	60°18.0′	2302	65°07.6′	2850
1	5°41.5′	2268	51°43.5′	2314	59°42.7′	2307	64°36.5′	2861
2	5°05.9′	2274	51°08.3′	2320	59°07.4′	2313	64°05.4′	2872
3	4°30.3′	2279	50°33.2′	2325	58°32.2′	2318	63°34.4′	2883
4	3°54.8′	2284	49°58.0′	2330	57°57.0′	2324	63°03.6′	2895
5	3°19.4′	2289	49°22.9′	2335	57°21.9′	2329	62°32.7′	2906
6	2°44.0′	2295	48°47.9′	2341	56°46.8′	2335	62°02.0′	2918
7	2°08.6′	2301	48°12.9′	2346	56°11.8′	2341	61°31.4′	2931
8	1°33.3′	2310	47°37.9′	2352	55°36.8′	2347	61°00.8′	2943
9	58.0′	2335	47°03.0′	2357	55°01.8′	2352	60°30.4′	2956
10	–	–	46°28.2′	2363	54°26.9′	2358	59°60.0′	2969
11	–	–	45°53.3′	2369	53°52.0′	2364	59°29.7′	2982
12	47.9′	2334	45°18.6′	2374	53°17.2′	2370	58°59.5′	2996
13	1°23.0′	2334	44°43.8′	2380	52°42.5′	2376	58°29.4′	3009
14	1°58.0′	2338	44°09.1′	2386	52°07.7′	2383	57°59.4′	3024
15	2°33.1′	2342	43°34.5′	2391	51°33.1′	2389	57°29.5′	3038
16	3°08.0′	2348	42°59.9′	2397	50°58.5′	2395	56°59.7′	3053
17	3°43.0′	2353	42°25.4′	2403	50°23.9′	2401	56°30.0′	3068
18	4°17.9′	2358	41°50.9′	2409	49°49.4′	2408	56°00.4′	3083
19	4°52.7′	2364	41°16.4′	2415	49°14.9′	2414	55°30.9′	3099
20	5°27.6′	2369	40°42.0′	2421	48°40.5′	2421	55°01.5′	3115
21	6°02.3′	2375	40°07.6′	2427	48°06.1′	2427	54°32.2′	3132
22	6°37.1′	2380	39°33.3′	2433	47°31.8′	2434	54°03.0′	3149
23	7°11.7′	2386	38°59.1′	2439	46°57.6′	2441	53°33.9′	3166

Wed Jul 26, 2017 UTC

UTC	+Regulus		−Jupiter		−Spica		−Antares		−Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	7°46.4′	2392	38°24.8′	2445	46°23.4′	2447	92°17.8′	2453	104°04.0′	2385
1	8°21.0′	2397	37°50.7′	2451	45°49.2′	2454	91°43.7′	2459	103°29.4′	2391
2	8°55.5′	2403	37°16.5′	2458	45°15.1′	2461	91°09.6′	2465	102°54.8′	2397
3	9°30.0′	2409	36°42.5′	2464	44°41.1′	2468	90°35.6′	2470	102°20.3′	2402
4	10°04.5′	2415	36°08.5′	2470	44°07.1′	2475	90°01.6′	2476	101°45.7′	2408
5	10°38.9′	2420	35°34.5′	2477	43°33.1′	2482	89°27.7′	2482	101°11.3′	2414
6	11°13.3′	2426	35°00.6′	2483	42°59.3′	2489	88°53.8′	2488	100°36.9′	2420
7	11°47.6′	2432	34°26.7′	2489	42°25.4′	2496	88°20.0′	2493	100°02.5′	2425
8	12°21.9′	2438	33°52.9′	2496	41°51.7′	2504	87°46.2′	2499	99°28.2′	2431
9	12°56.1′	2444	33°19.1′	2502	41°18.0′	2511	87°12.5′	2505	98°53.9′	2437
10	13°30.3′	2449	32°45.4′	2509	40°44.3′	2518	86°38.8′	2511	98°19.7′	2443
11	14°04.4′	2455	32°11.7′	2515	40°10.7′	2526	86°05.1′	2517	97°45.5′	2449
12	14°38.5′	2461	31°38.1′	2522	39°37.2′	2534	85°31.5′	2523	97°11.3′	2454
13	15°12.5′	2467	31°04.5′	2529	39°03.7′	2541	84°57.9′	2529	96°37.2′	2460
14	15°46.5′	2473	30°31.0′	2535	38°30.3′	2549	84°24.4′	2535	96°03.2′	2466
15	16°20.5′	2479	29°57.5′	2542	37°56.9′	2557	83°51.0′	2541	95°29.2′	2472
16	16°54.4′	2485	29°24.1′	2549	37°23.6′	2565	83°17.5′	2547	94°55.2′	2478
17	17°28.3′	2491	28°50.7′	2556	36°50.4′	2573	82°44.2′	2553	94°21.3′	2484
18	18°02.1′	2497	28°17.4′	2563	36°17.2′	2581	82°10.8′	2559	93°47.4′	2490
19	18°35.8′	2502	27°44.2′	2570	35°44.1′	2589	81°37.6′	2566	93°13.6′	2496
20	19°09.6′	2508	27°11.0′	2577	35°11.0′	2598	81°04.3′	2572	92°39.8′	2502
21	19°43.2′	2514	26°37.8′	2584	34°38.0′	2606	80°31.1′	2578	92°06.1′	2508
22	20°16.9′	2520	26°04.7′	2591	34°05.1′	2615	79°58.0′	2584	91°32.4′	2514
23	20°50.4′	2526	25°31.7′	2599	33°32.2′	2624	79°24.9′	2590	90°58.8′	2519

Thu Jul 27, 2017 UTC

UTC	+Sun		+Regulus		-Jupiter		-Spica		-Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	47°15.8'	2857	21°24.0'	2532	24°58.7'	2606	32°59.4'	2632	78°51.8'	2596
1	47°46.8'	2864	21°57.5'	2538	24°25.8'	2614	32°26.7'	2642	78°18.8'	2602
2	48°17.9'	2870	22°30.9'	2544	23°52.9'	2621	31°54.1'	2651	77°45.9'	2609
3	48°48.9'	2876	23°04.3'	2550	23°20.1'	2629	31°21.5'	2660	77°13.0'	2615
4	49°19.8'	2882	23°37.7'	2556	22°47.4'	2637	30°48.9'	2670	76°40.1'	2621
5	49°50.7'	2889	24°11.0'	2562	22°14.7'	2645	30°16.5'	2679	76°07.3'	2627
6	50°21.5'	2895	24°44.2'	2568	21°42.0'	2653	29°44.1'	2689	75°34.5'	2634
7	50°52.3'	2901	25°17.5'	2574	21°09.4'	2661	29°11.8'	2700	75°01.8'	2640
8	51°23.1'	2908	25°50.6'	2580	20°36.9'	2669	28°39.6'	2710	74°29.2'	2646
9	51°53.8'	2914	26°23.8'	2585	20°04.5'	2678	28°07.4'	2721	73°56.5'	2652
10	52°24.5'	2920	26°56.8'	2591	19°32.1'	2687	27°35.4'	2732	73°24.0'	2659
11	52°55.1'	2927	27°29.9'	2597	18°59.8'	2696	27°03.4'	2743	72°51.4'	2665
12	53°25.7'	2933	28°02.9'	2603	18°27.5'	2705	26°31.5'	2755	72°18.9'	2671
13	53°56.3'	2939	28°35.8'	2609	17°55.3'	2715	25°59.7'	2767	71°46.5'	2678
14	54°26.8'	2945	29°08.7'	2615	17°23.2'	2725	25°27.9'	2779	71°14.1'	2684
15	54°57.2'	2951	29°41.6'	2621	16°51.2'	2735	24°56.3'	2792	70°41.8'	2690
16	55°27.6'	2958	30°14.4'	2626	16°19.2'	2746	24°24.7'	2805	70°09.5'	2696
17	55°58.0'	2964	30°47.2'	2632	15°47.3'	2757	23°53.3'	2818	69°37.2'	2703
18	56°28.3'	2970	31°19.9'	2638	15°15.5'	2769	23°21.9'	2833	69°05.0'	2709
19	56°58.6'	2976	31°52.6'	2644	14°43.8'	2781	22°50.7'	2847	68°32.9'	2715
20	57°28.8'	2982	32°25.2'	2650	14°12.2'	2794	22°19.5'	2863	68°00.8'	2722
21	57°59.0'	2989	32°57.8'	2655	13°40.7'	2808	21°48.5'	2879	67°28.7'	2728
22	58°29.2'	2995	33°30.4'	2661	13°09.2'	2823	21°17.6'	2896	66°56.7'	2734
23	58°59.3'	3001	34°02.9'	2667	12°37.9'	2840	20°46.8'	2913	66°24.7'	2741

Fri Jul 28, 2017 UTC

UTC	+Sun		-Jupiter		+Regulus		-Spica		-Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	59°29.3'	3007	12°06.7'	2857	34°35.4'	2672	20°16.1'	2932	65°52.8'	2747
1	59°59.4'	3013	11°35.6'	2877	35°07.8'	2678	19°45.6'	2952	65°20.9'	2753
2	60°29.3'	3019	11°04.7'	2898	35°40.2'	2684	19°15.1'	2973	64°49.1'	2760
3	60°59.3'	3025	10°33.9'	2922	36°12.5'	2689	18°44.9'	2995	64°17.3'	2766
4	61°29.2'	3031	10°03.3'	2948	36°44.8'	2695	18°14.8'	3018	63°45.6'	2772
5	61°59.0'	3037	9°32.9'	2979	37°17.1'	2701	17°44.8'	3043	63°13.9'	2779
6	62°28.8'	3043	9°02.6'	3013	37°49.3'	2706	17°15.1'	3070	62°42.3'	2785
7	62°58.6'	3049	8°32.7'	3054	38°21.5'	2712	16°45.5'	3099	62°10.7'	2791
8	63°28.4'	3055	8°02.9'	3101	38°53.6'	2717	16°16.1'	3130	61°39.1'	2798
9	63°58.0'	3061	7°33.6'	3158	39°25.7'	2723	15°46.9'	3164	61°07.6'	2804
10	64°27.7'	3067	7°04.6'	3226	39°57.8'	2728	15°17.9'	3201	60°36.1'	2810
11	64°57.3'	3072	6°36.0'	3311	40°29.8'	2733	14°49.2'	3241	60°04.7'	2816
12	65°26.9'	3078	6°08.0'	3416	41°01.8'	2739	14°20.8'	3284	59°33.4'	2823
13	65°56.4'	3084	-	-	41°33.7'	2744	13°52.6'	3333	59°02.0'	2829
14	66°25.9'	3090	-	-	42°05.6'	2750	13°24.8'	3386	58°30.7'	2835
15	66°55.4'	3095	-	-	42°37.4'	2755	12°57.2'	3445	57°59.5'	2842
16	67°24.8'	3101	-	-	43°09.3'	2760	12°30.1'	3510	57°28.3'	2848
17	67°54.2'	3107	-	-	43°41.0'	2765	12°03.4'	3584	56°57.2'	2854
18	68°23.5'	3112	-	-	44°12.8'	2771	11°37.1'	3666	56°26.1'	2861
19	68°52.8'	3118	-	-	44°44.5'	2776	11°11.3'	3760	55°55.0'	2867
20	69°22.1'	3123	-	-	45°16.1'	2781	10°46.0'	3866	55°24.0'	2873
21	69°51.3'	3129	-	-	45°47.8'	2786	10°21.4'	3987	54°53.1'	2880
22	70°20.5'	3134	-	-	46°19.4'	2791	9°57.4'	4127	54°22.2'	2886
23	70°49.7'	3140	-	-	46°50.9'	2796	-	-	53°51.3'	2892

Sat Jul 29, 2017 UTC

UTC	+Sun		+Regulus		-Antares		-Saturn		-Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	71°18.8'	3145	47°22.4'	2801	53°20.5'	2899	64°24.6'	2797	100°38.1'	3329
1	71°47.9'	3151	47°53.9'	2806	52°49.7'	2905	63°53.0'	2802	100°10.2'	3333
2	72°16.9'	3156	48°25.4'	2811	52°18.9'	2911	63°21.6'	2807	99°42.4'	3336
3	72°45.9'	3161	48°56.8'	2816	51°48.2'	2918	62°50.1'	2812	99°14.5'	3339
4	73°14.9'	3167	49°28.1'	2821	51°17.6'	2924	62°18.7'	2817	98°46.7'	3343
5	73°43.8'	3172	49°59.5'	2826	50°47.0'	2930	61°47.4'	2822	98°18.9'	3346
6	74°12.7'	3177	50°30.8'	2831	50°16.4'	2937	61°16.0'	2826	97°51.2'	3350
7	74°41.6'	3182	51°02.0'	2835	49°45.9'	2943	60°44.7'	2831	97°23.4'	3353
8	75°10.4'	3187	51°33.3'	2840	49°15.5'	2950	60°13.5'	2836	96°55.7'	3357
9	75°39.2'	3192	52°04.5'	2845	48°45.0'	2956	59°42.2'	2841	96°28.0'	3360
10	76°08.0'	3197	52°35.6'	2849	48°14.7'	2963	59°11.0'	2846	96°00.3'	3364
11	76°36.7'	3202	53°06.8'	2854	47°44.3'	2969	58°39.9'	2850	95°32.7'	3368
12	77°05.5'	3207	53°37.9'	2859	47°14.0'	2976	58°08.8'	2855	95°05.0'	3371
13	77°34.1'	3212	54°08.9'	2863	46°43.8'	2982	57°37.7'	2860	94°37.4'	3375
14	78°02.8'	3217	54°40.0'	2868	46°13.6'	2989	57°06.6'	2864	94°09.9'	3379
15	78°31.4'	3222	55°11.0'	2872	45°43.5'	2995	56°35.6'	2869	93°42.3'	3383
16	78°59.9'	3226	55°41.9'	2876	45°13.4'	3002	56°04.6'	2874	93°14.8'	3387
17	79°28.5'	3231	56°12.9'	2881	44°43.3'	3009	55°33.6'	2878	92°47.3'	3391
18	79°57.0'	3236	56°43.8'	2885	44°13.3'	3015	55°02.7'	2882	92°19.8'	3395
19	80°25.5'	3240	57°14.7'	2889	43°43.3'	3022	54°31.8'	2887	91°52.3'	3399
20	80°53.9'	3245	57°45.5'	2894	43°13.4'	3029	54°01.0'	2891	91°24.9'	3403
21	81°22.4'	3249	58°16.3'	2898	42°43.5'	3036	53°30.1'	2896	90°57.5'	3407
22	81°50.8'	3254	58°47.1'	2902	42°13.7'	3042	52°59.3'	2900	90°30.1'	3411
23	82°19.1'	3258	59°17.9'	2906	41°43.9'	3049	52°28.5'	2904	90°02.7'	3415

Sun Jul 30, 2017 UTC

UTC	+Sun		+Jupiter		-Antares		-Saturn		+Regulus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	82°47.5'	3263	13°32.3'	3061	41°14.2'	3056	51°57.8'	2908	59°48.6'	2910
1	83°15.8'	3267	14°01.9'	3058	40°44.5'	3063	51°27.1'	2913	60°19.3'	2914
2	83°44.0'	3271	14°31.6'	3056	40°14.9'	3071	50°56.4'	2917	60°50.0'	2918
3	84°12.3'	3275	15°01.3'	3054	39°45.3'	3078	50°25.8'	2921	61°20.6'	2922
4	84°40.5'	3280	15°31.0'	3053	39°15.7'	3085	49°55.1'	2925	61°51.2'	2926
5	85°08.7'	3284	16°00.7'	3052	38°46.3'	3092	49°24.5'	2929	62°21.8'	2930
6	85°36.9'	3288	16°30.4'	3051	38°16.8'	3100	48°54.0'	2933	62°52.4'	2933
7	86°05.0'	3292	17°00.1'	3051	37°47.4'	3108	48°23.4'	2937	63°22.9'	2937
8	86°33.1'	3296	17°29.8'	3051	37°18.1'	3115	47°52.9'	2941	63°53.4'	2941
9	87°01.2'	3300	17°59.5'	3052	36°48.8'	3123	47°22.4'	2945	64°23.9'	2944
10	87°29.3'	3304	18°29.3'	3052	36°19.6'	3131	46°52.0'	2949	64°54.4'	2948
11	87°57.3'	3307	18°59.0'	3053	35°50.4'	3139	46°21.5'	2952	65°24.8'	2951
12	88°25.4'	3311	19°28.7'	3054	35°21.3'	3147	45°51.1'	2956	65°55.2'	2955
13	88°53.3'	3315	19°58.4'	3055	34°52.2'	3156	45°20.8'	2960	66°25.6'	2958
14	89°21.3'	3318	20°28.1'	3056	34°23.2'	3164	44°50.4'	2964	66°56.0'	2962
15	89°49.3'	3322	20°57.8'	3057	33°54.2'	3173	44°20.1'	2967	67°26.3'	2965
16	90°17.2'	3326	21°27.4'	3059	33°25.3'	3182	43°49.8'	2971	67°56.6'	2968
17	90°45.1'	3329	21°57.1'	3060	32°56.5'	3191	43°19.5'	2974	68°26.9'	2972
18	91°13.0'	3333	22°26.8'	3062	32°27.7'	3200	42°49.3'	2978	68°57.2'	2975
19	91°40.8'	3336	22°56.4'	3064	31°59.0'	3210	42°19.0'	2981	69°27.4'	2978
20	92°08.6'	3339	23°26.0'	3065	31°30.4'	3220	41°48.8'	2985	69°57.6'	2981
21	92°36.5'	3343	23°55.7'	3067	31°01.8'	3230	41°18.7'	2988	70°27.9'	2984
22	93°04.2'	3346	24°25.3'	3069	30°33.3'	3240	40°48.5'	2992	70°58.0'	2987
23	93°32.0'	3349	24°54.9'	3070	30°04.8'	3251	40°18.4'	2995	71°28.2'	2990

Mon Jul 31, 2017 UTC

UTC	+Sun		+Jupiter		+Spica		-Saturn		-Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	93°59.8'	3352	25°24.5'	3072	19°17.9'	3266	39°48.3'	2998	29°36.4'	3262
1	94°27.5'	3355	25°54.0'	3074	19°46.2'	3256	39°18.2'	3001	29°08.1'	3273
2	94°55.2'	3358	26°23.6'	3076	20°14.5'	3246	38°48.1'	3005	28°39.9'	3285
3	95°22.9'	3361	26°53.1'	3078	20°43.0'	3238	38°18.1'	3008	28°11.7'	3297
4	95°50.6'	3364	27°22.7'	3080	21°11.4'	3230	37°48.1'	3011	27°43.6'	3310
5	96°18.2'	3367	27°52.2'	3081	21°39.9'	3223	37°18.1'	3014	27°15.6'	3323
6	96°45.9'	3370	28°21.7'	3083	22°08.5'	3217	36°48.1'	3017	26°47.7'	3337
7	97°13.5'	3373	28°51.2'	3085	22°37.1'	3211	36°18.2'	3020	26°19.9'	3351
8	97°41.1'	3375	29°20.7'	3087	23°05.8'	3205	35°48.2'	3023	25°52.2'	3366
9	98°08.7'	3378	29°50.2'	3089	23°34.5'	3200	35°18.3'	3026	25°24.5'	3382
10	98°36.2'	3380	30°19.7'	3090	24°03.2'	3195	34°48.4'	3029	24°57.0'	3398
11	99°03.8'	3383	30°49.1'	3092	24°31.9'	3191	34°18.6'	3032	24°29.5'	3416
12	99°31.3'	3385	31°18.5'	3094	25°00.7'	3187	33°48.7'	3035	24°02.2'	3433
13	99°58.8'	3388	31°48.0'	3095	25°29.5'	3184	33°18.9'	3038	23°35.0'	3452
14	100°26.3'	3390	32°17.4'	3097	25°58.3'	3180	32°49.1'	3041	23°07.9'	3472
15	100°53.8'	3392	32°46.8'	3099	26°27.2'	3177	32°19.3'	3044	22°40.9'	3493
16	101°21.3'	3395	33°16.2'	3100	26°56.0'	3174	31°49.5'	3047	22°14.1'	3516
17	101°48.7'	3397	33°45.6'	3102	27°24.9'	3172	31°19.8'	3050	21°47.4'	3539
18	102°16.2'	3399	34°14.9'	3104	27°53.8'	3169	30°50.0'	3053	21°20.8'	3564
19	102°43.6'	3401	34°44.3'	3105	28°22.8'	3167	30°20.3'	3056	20°54.4'	3591
20	103°11.0'	3403	35°13.7'	3107	28°51.7'	3165	29°50.6'	3058	20°28.2'	3619
21	103°38.4'	3405	35°43.0'	3108	29°20.7'	3163	29°21.0'	3061	20°02.1'	3649
22	104°05.8'	3407	36°12.3'	3109	29°49.6'	3161	28°51.3'	3064	19°36.2'	3681
23	104°33.2'	3409	36°41.7'	3111	30°18.6'	3159	28°21.7'	3067	19°10.5'	3715