

Fri Aug 2, 2019 UTC

UTC	–Regulus		–Spica		–Arcturus		–Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	8°49.1'	2323	62°39.7'	2062	65°19.0'	2574	108°34.2'	2062
1	8°13.9'	2373	62°02.3'	2063	64°45.8'	2579	107°56.9'	2061
2	7°39.2'	2436	61°25.0'	2063	64°12.7'	2585	107°19.6'	2061
3	7°04.9'	2517	60°47.7'	2063	63°39.6'	2591	106°42.3'	2060
4	–	–	60°10.4'	2064	63°06.5'	2597	106°04.9'	2060
5	–	–	59°33.1'	2064	62°33.5'	2604	105°27.6'	2060
6	–	–	58°55.8'	2065	62°00.6'	2611	104°50.2'	2059
7	–	–	58°18.5'	2066	61°27.7'	2618	104°12.9'	2059
8	–	–	57°41.2'	2067	60°54.9'	2626	103°35.6'	2059
9	–	–	57°03.9'	2068	60°22.1'	2634	102°58.2'	2059
10	–	–	56°26.7'	2069	59°49.4'	2642	102°20.9'	2060
11	–	–	55°49.4'	2070	59°16.7'	2651	101°43.5'	2060
12	–	–	55°12.1'	2071	58°44.1'	2660	101°06.2'	2060
13	–	–	54°34.9'	2073	58°11.6'	2669	100°28.9'	2061
14	–	–	53°57.7'	2074	57°39.2'	2679	99°51.5'	2061
15	–	–	53°20.5'	2076	57°06.8'	2690	99°14.2'	2062
16	–	–	52°43.3'	2078	56°34.5'	2700	98°36.9'	2063
17	–	–	52°06.1'	2080	56°02.3'	2711	97°59.6'	2063
18	–	–	51°28.9'	2082	55°30.1'	2723	97°22.2'	2064
19	–	–	50°51.8'	2084	54°58.1'	2735	96°44.9'	2065
20	–	–	50°14.6'	2086	54°26.1'	2747	96°07.7'	2066
21	–	–	49°37.5'	2088	53°54.2'	2760	95°30.4'	2067
22	–	–	49°00.4'	2091	53°22.5'	2773	94°53.1'	2069
23	6°53.9'	2473	48°23.3'	2094	52°50.8'	2787	94°15.8'	2070

Sat Aug 3, 2019 UTC

UTC	+Regulus		–Spica		–Antares		–Jupiter		–Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	7°27.9'	2407	47°46.3'	2096	93°38.6'	2071	97°52.8'	2028	52°19.2'	2802
1	8°02.3'	2354	47°09.3'	2099	93°01.3'	2073	97°15.2'	2029	51°47.7'	2817
2	8°37.2'	2313	46°32.3'	2102	92°24.1'	2074	96°37.6'	2031	51°16.4'	2832
3	9°12.4'	2279	45°55.3'	2105	91°46.9'	2076	95°60.0'	2033	50°45.1'	2848
4	9°47.9'	2252	45°18.3'	2108	91°09.7'	2078	95°22.4'	2034	50°14.0'	2865
5	10°23.7'	2230	44°41.4'	2112	90°32.5'	2080	94°44.9'	2036	49°42.9'	2882
6	10°59.6'	2211	44°04.5'	2115	89°55.3'	2081	94°07.3'	2038	49°12.0'	2900
7	11°35.6'	2196	43°27.6'	2119	89°18.2'	2083	93°29.8'	2040	48°41.3'	2919
8	12°11.8'	2184	42°50.8'	2123	88°41.0'	2085	92°52.3'	2042	48°10.6'	2939
9	12°48.1'	2173	42°14.0'	2127	88°03.9'	2087	92°14.8'	2044	47°40.1'	2959
10	13°24.5'	2164	41°37.2'	2131	87°26.8'	2090	91°37.3'	2046	47°09.8'	2980
11	14°00.9'	2157	41°00.5'	2135	86°49.7'	2092	90°59.9'	2049	46°39.6'	3001
12	14°37.5'	2151	40°23.8'	2140	86°12.7'	2094	90°22.4'	2051	46°09.5'	3024
13	15°14.0'	2146	39°47.1'	2144	85°35.6'	2097	89°45.0'	2053	45°39.6'	3047
14	15°50.6'	2142	39°10.5'	2149	84°58.6'	2099	89°07.6'	2056	45°09.9'	3071
15	16°27.3'	2138	38°33.9'	2154	84°21.6'	2102	88°30.2'	2058	44°40.3'	3097
16	17°04.0'	2136	37°57.4'	2159	83°44.6'	2104	87°52.9'	2061	44°10.9'	3123
17	17°40.6'	2133	37°20.9'	2164	83°07.7'	2107	87°15.6'	2064	43°41.6'	3150
18	18°17.4'	2132	36°44.5'	2170	82°30.7'	2110	86°38.2'	2066	43°12.6'	3178
19	18°54.1'	2131	36°08.0'	2176	81°53.8'	2113	86°01.0'	2069	42°43.7'	3208
20	19°30.8'	2130	35°31.7'	2182	81°16.9'	2116	85°23.7'	2072	42°15.1'	3238
21	20°07.6'	2130	34°55.4'	2188	80°40.1'	2119	84°46.5'	2075	41°46.6'	3270
22	20°44.3'	2130	34°19.1'	2194	80°03.2'	2122	84°09.3'	2078	41°18.3'	3303
23	21°21.0'	2130	33°42.9'	2201	79°26.4'	2125	83°32.1'	2081	40°50.3'	3337

Sun Aug 4, 2019 UTC

UTC	+Sun		+Regulus		-Spica		-Antares		-Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	40°32.2'	2381	21°57.8'	2131	33°06.8'	2208	78°49.6'	2128	82°54.9'	2084
1	41°06.9'	2384	22°34.5'	2132	32°30.7'	2215	78°12.9'	2131	82°17.8'	2087
2	41°41.5'	2388	23°11.2'	2133	31°54.7'	2223	77°36.1'	2135	81°40.7'	2090
3	42°16.1'	2391	23°48.0'	2134	31°18.7'	2231	76°59.4'	2138	81°03.6'	2093
4	42°50.7'	2394	24°24.7'	2135	30°42.8'	2239	76°22.8'	2142	80°26.5'	2097
5	43°25.3'	2398	25°01.4'	2137	30°07.0'	2247	75°46.1'	2145	79°49.5'	2100
6	43°59.8'	2401	25°38.0'	2139	29°31.2'	2256	75°09.5'	2149	79°12.5'	2103
7	44°34.4'	2405	26°14.7'	2141	28°55.5'	2266	74°32.9'	2152	78°35.5'	2107
8	45°08.8'	2408	26°51.4'	2143	28°19.9'	2276	73°56.4'	2156	77°58.6'	2110
9	45°43.3'	2412	27°28.0'	2145	27°44.4'	2286	73°19.9'	2160	77°21.7'	2114
10	46°17.7'	2416	28°04.6'	2148	27°08.9'	2297	72°43.4'	2164	76°44.8'	2118
11	46°52.1'	2420	28°41.2'	2150	26°33.6'	2308	72°06.9'	2168	76°08.0'	2121
12	47°26.5'	2424	29°17.8'	2153	25°58.3'	2320	71°30.5'	2172	75°31.2'	2125
13	48°00.8'	2427	29°54.3'	2156	25°23.1'	2332	70°54.1'	2176	74°54.4'	2129
14	48°35.2'	2431	30°30.8'	2159	24°48.1'	2346	70°17.7'	2180	74°17.6'	2132
15	49°09.4'	2435	31°07.3'	2162	24°13.1'	2360	69°41.4'	2184	73°40.9'	2136
16	49°43.7'	2439	31°43.8'	2165	23°38.3'	2375	69°05.1'	2188	73°04.2'	2140
17	50°17.9'	2444	32°20.3'	2168	23°03.5'	2391	68°28.9'	2192	72°27.6'	2144
18	50°52.1'	2448	32°56.7'	2171	22°28.9'	2407	67°52.6'	2197	71°50.9'	2148
19	51°26.2'	2452	33°33.1'	2174	21°54.5'	2425	67°16.5'	2201	71°14.4'	2152
20	52°00.3'	2456	34°09.4'	2178	21°20.1'	2445	66°40.3'	2205	70°37.8'	2156
21	52°34.4'	2460	34°45.8'	2181	20°46.0'	2465	66°04.2'	2210	70°01.3'	2160
22	53°08.5'	2465	35°22.1'	2185	20°12.0'	2487	65°28.1'	2214	69°24.8'	2165
23	53°42.5'	2469	35°58.4'	2188	19°38.1'	2511	64°52.1'	2219	68°48.3'	2169

Mon Aug 5, 2019 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	54°16.5'	2474	36°34.6'	2192	19°04.5'	2537	68°11.9'	2173	64°16.1'	2224
1	54°50.4'	2478	37°10.8'	2196	18°31.0'	2564	67°35.6'	2177	63°40.2'	2228
2	55°24.3'	2482	37°47.0'	2199	17°57.8'	2595	66°59.2'	2182	63°04.2'	2233
3	55°58.2'	2487	38°23.2'	2203	17°24.7'	2628	66°22.9'	2186	62°28.4'	2238
4	56°32.0'	2492	38°59.3'	2207	16°52.0'	2664	65°46.6'	2190	61°52.5'	2243
5	57°05.9'	2496	39°35.4'	2211	16°19.5'	2703	65°10.4'	2195	61°16.7'	2248
6	57°39.6'	2501	40°11.5'	2215	15°47.3'	2747	64°34.2'	2199	60°41.0'	2253
7	58°13.4'	2506	40°47.5'	2219	15°15.4'	2795	63°58.0'	2204	60°05.2'	2258
8	58°47.1'	2510	41°23.5'	2223	14°43.9'	2849	63°21.9'	2208	59°29.6'	2263
9	59°20.7'	2515	41°59.5'	2227	14°12.8'	2909	62°45.8'	2213	58°53.9'	2268
10	59°54.3'	2520	42°35.4'	2232	13°42.1'	2976	62°09.8'	2217	58°18.3'	2273
11	60°27.9'	2525	43°11.3'	2236	13°11.8'	3052	61°33.8'	2222	57°42.8'	2279
12	61°01.5'	2529	43°47.1'	2240	12°42.1'	3138	60°57.8'	2226	57°07.3'	2284
13	61°35.0'	2534	44°23.0'	2244	12°13.0'	3236	60°21.9'	2231	56°31.8'	2289
14	62°08.5'	2539	44°58.7'	2249	11°44.5'	3348	59°46.0'	2236	55°56.4'	2295
15	62°41.9'	2544	45°34.5'	2253	–	–	59°10.1'	2241	55°21.0'	2300
16	63°15.3'	2549	46°10.2'	2257	–	–	58°34.3'	2245	54°45.7'	2306
17	63°48.7'	2554	46°45.9'	2262	–	–	57°58.5'	2250	54°10.4'	2311
18	64°22.0'	2559	47°21.5'	2266	–	–	57°22.8'	2255	53°35.2'	2317
19	64°55.3'	2564	47°57.1'	2271	–	–	56°47.1'	2260	52°60.0'	2322
20	65°28.5'	2569	48°32.7'	2275	–	–	56°11.4'	2264	52°24.8'	2328
21	66°01.7'	2574	49°08.2'	2280	–	–	55°35.8'	2269	51°49.7'	2334
22	66°34.9'	2579	49°43.7'	2284	–	–	55°00.2'	2274	51°14.7'	2340
23	67°08.0'	2584	50°19.2'	2289	–	–	54°24.7'	2279	50°39.7'	2346

Tue Aug 6, 2019 UTC

UTC	+Sun		+Regulus		-Jupiter		-Antares		-Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	67°41.1'	2590	50°54.6'	2294	53°49.2'	2284	50°04.7'	2352	84°27.8'	2265
1	68°14.2'	2595	51°30.0'	2298	53°13.7'	2289	49°29.8'	2358	83°52.2'	2270
2	68°47.2'	2600	52°05.3'	2303	52°38.3'	2294	48°54.9'	2364	83°16.6'	2275
3	69°20.1'	2605	52°40.7'	2308	52°02.9'	2299	48°20.1'	2370	82°41.1'	2279
4	69°53.1'	2610	53°15.9'	2312	51°27.6'	2304	47°45.4'	2376	82°05.6'	2284
5	70°26.0'	2616	53°51.2'	2317	50°52.3'	2309	47°10.6'	2382	81°30.1'	2289
6	70°58.8'	2621	54°26.3'	2322	50°17.0'	2314	46°36.0'	2389	80°54.7'	2294
7	71°31.6'	2626	55°01.5'	2327	49°41.8'	2319	46°01.4'	2395	80°19.3'	2299
8	72°04.4'	2631	55°36.6'	2331	49°06.6'	2324	45°26.8'	2402	79°44.0'	2304
9	72°37.2'	2637	56°11.7'	2336	48°31.5'	2329	44°52.3'	2408	79°08.7'	2309
10	73°09.9'	2642	56°46.7'	2341	47°56.4'	2334	44°17.8'	2415	78°33.4'	2314
11	73°42.5'	2647	57°21.7'	2346	47°21.3'	2339	43°43.4'	2422	77°58.2'	2318
12	74°15.1'	2652	57°56.7'	2351	46°46.3'	2344	43°09.1'	2428	77°23.0'	2323
13	74°47.7'	2658	58°31.6'	2355	46°11.4'	2350	42°34.8'	2435	76°47.9'	2328
14	75°20.2'	2663	59°06.5'	2360	45°36.4'	2355	42°00.5'	2442	76°12.8'	2333
15	75°52.7'	2668	59°41.3'	2365	45°01.5'	2360	41°26.3'	2449	75°37.7'	2338
16	76°25.2'	2674	60°16.1'	2370	44°26.7'	2365	40°52.2'	2456	75°02.7'	2343
17	76°57.6'	2679	60°50.9'	2375	43°51.9'	2370	40°18.1'	2464	74°27.7'	2348
18	77°30.0'	2684	61°25.6'	2380	43°17.1'	2375	39°44.1'	2471	73°52.8'	2353
19	78°02.3'	2690	62°00.3'	2385	42°42.4'	2381	39°10.1'	2479	73°17.9'	2358
20	78°34.6'	2695	62°35.0'	2389	42°07.7'	2386	38°36.2'	2486	72°43.0'	2363
21	79°06.9'	2700	63°09.6'	2394	41°33.1'	2391	38°02.3'	2494	72°08.2'	2368
22	79°39.1'	2706	63°44.2'	2399	40°58.5'	2396	37°28.6'	2502	71°33.4'	2373
23	80°11.3'	2711	64°18.7'	2404	40°23.9'	2401	36°54.8'	2510	70°58.6'	2378

Wed Aug 7, 2019 UTC

UTC	+Sun		-Jupiter		-Antares		+Regulus		-Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	80°43.4'	2716	39°49.4'	2407	36°21.2'	2518	64°53.2'	2409	70°23.9'	2383
1	81°15.5'	2722	39°14.9'	2412	35°47.6'	2526	65°27.6'	2414	69°49.3'	2388
2	81°47.6'	2727	38°40.5'	2417	35°14.0'	2534	66°02.1'	2419	69°14.7'	2393
3	82°19.6'	2733	38°06.1'	2422	34°40.6'	2543	66°36.4'	2424	68°40.1'	2398
4	82°51.6'	2738	37°31.8'	2428	34°07.1'	2552	67°10.8'	2429	68°05.5'	2403
5	83°23.5'	2743	36°57.5'	2433	33°33.8'	2561	67°45.1'	2433	67°31.0'	2408
6	83°55.4'	2749	36°23.2'	2438	33°00.5'	2570	68°19.3'	2438	66°56.6'	2413
7	84°27.3'	2754	35°49.0'	2443	32°27.3'	2579	68°53.6'	2443	66°22.1'	2417
8	84°59.1'	2759	35°14.8'	2449	31°54.2'	2589	69°27.7'	2448	65°47.7'	2422
9	85°30.9'	2765	34°40.6'	2454	31°21.1'	2599	70°01.9'	2453	65°13.4'	2427
10	86°02.6'	2770	34°06.5'	2459	30°48.2'	2609	70°36.0'	2458	64°39.1'	2432
11	86°34.4'	2775	33°32.5'	2465	30°15.2'	2619	71°10.1'	2463	64°04.8'	2437
12	87°06.0'	2780	32°58.5'	2470	29°42.4'	2630	71°44.1'	2468	63°30.6'	2442
13	87°37.7'	2786	32°24.5'	2475	29°09.7'	2641	72°18.1'	2472	62°56.4'	2447
14	88°09.2'	2791	31°50.6'	2481	28°37.0'	2652	72°52.0'	2477	62°22.2'	2452
15	88°40.8'	2796	31°16.7'	2486	28°04.4'	2664	73°26.0'	2482	61°48.1'	2457
16	89°12.3'	2802	30°42.8'	2492	27°31.9'	2676	73°59.8'	2487	61°14.0'	2462
17	89°43.8'	2807	30°09.0'	2497	26°59.5'	2689	74°33.7'	2492	60°40.0'	2466
18	90°15.2'	2812	29°35.3'	2503	26°27.2'	2702	75°07.5'	2497	60°06.0'	2471
19	90°46.6'	2817	29°01.5'	2508	25°55.0'	2715	75°41.3'	2501	59°32.0'	2476
20	91°18.0'	2823	28°27.9'	2513	25°22.9'	2729	76°15.0'	2506	58°58.1'	2481
21	91°49.3'	2828	27°54.2'	2519	24°50.9'	2744	76°48.7'	2511	58°24.2'	2486
22	92°20.6'	2833	27°20.6'	2525	24°19.0'	2760	77°22.3'	2516	57°50.4'	2491
23	92°51.9'	2838	26°47.1'	2530	23°47.2'	2776	77°55.9'	2521	57°16.5'	2495

Thu Aug 8, 2019 UTC

UTC	+Sun		-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	93°23.1'	2843	26°13.6'	2536	25°19.0'	2713	23°15.6'	2793	56°42.8'	2500
1	93°54.2'	2848	25°40.1'	2541	25°51.1'	2710	22°44.0'	2811	56°09.0'	2505
2	94°25.4'	2854	25°06.7'	2547	26°23.3'	2707	22°12.6'	2829	55°35.3'	2510
3	94°56.5'	2859	24°33.3'	2553	26°55.4'	2705	21°41.3'	2849	55°01.7'	2514
4	95°27.6'	2864	23°60.0'	2559	27°27.6'	2704	21°10.2'	2870	54°28.0'	2519
5	95°58.6'	2869	23°26.7'	2564	27°59.8'	2703	20°39.2'	2893	53°54.4'	2524
6	96°29.6'	2874	22°53.4'	2570	28°32.0'	2702	20°08.4'	2917	53°20.9'	2528
7	97°00.5'	2879	22°20.2'	2576	29°04.2'	2701	19°37.7'	2942	52°47.4'	2533
8	97°31.5'	2884	21°47.1'	2582	29°36.4'	2701	19°07.3'	2969	52°13.9'	2538
9	98°02.3'	2889	21°14.0'	2589	30°08.6'	2701	18°37.0'	2998	51°40.4'	2542
10	98°33.2'	2894	20°40.9'	2595	30°40.9'	2701	18°06.9'	3029	51°07.0'	2547
11	99°04.0'	2899	20°07.9'	2601	31°13.1'	2701	17°37.0'	3063	50°33.6'	2552
12	99°34.8'	2904	19°35.0'	2608	31°45.3'	2702	17°07.4'	3100	50°00.3'	2556
13	100°05.5'	2909	19°02.0'	2614	32°17.5'	2702	16°38.0'	3139	49°27.0'	2561
14	100°36.2'	2914	18°29.2'	2621	32°49.7'	2703	16°08.9'	3183	48°53.7'	2565
15	101°06.9'	2919	17°56.4'	2628	33°21.9'	2704	15°40.1'	3230	48°20.5'	2570
16	101°37.5'	2924	17°23.6'	2636	33°54.1'	2706	15°11.5'	3282	47°47.3'	2574
17	102°08.1'	2929	16°50.9'	2643	34°26.3'	2707	14°43.3'	3339	47°14.1'	2579
18	102°38.7'	2934	16°18.3'	2651	34°58.4'	2709	14°15.5'	3401	46°41.0'	2583
19	103°09.2'	2939	15°45.7'	2659	35°30.6'	2710	13°48.1'	3471	46°07.9'	2588
20	103°39.7'	2943	15°13.1'	2668	36°02.7'	2712	13°21.1'	3549	45°34.8'	2592
21	104°10.2'	2948	14°40.7'	2677	36°34.9'	2714	12°54.6'	3636	45°01.8'	2596
22	104°40.6'	2953	14°08.3'	2686	37°07.0'	2716	12°28.7'	3733	44°28.8'	2601
23	105°11.0'	2958	13°36.0'	2696	37°39.1'	2718	12°03.3'	3843	43°55.8'	2605

Fri Aug 9, 2019 UTC

UTC	+Sun		-Jupiter		-Saturn		+Spica		-Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	105°41.4'	2962	13°03.7'	2707	43°22.9'	2610	38°11.2'	2720	11°38.5'	3967
1	106°11.7'	2967	12°31.5'	2718	42°50.0'	2614	38°43.3'	2722	11°14.4'	4109
2	106°42.0'	2972	11°59.5'	2731	42°17.1'	2618	39°15.3'	2724	–	–
3	107°12.3'	2977	11°27.5'	2745	41°44.3'	2622	39°47.4'	2727	–	–
4	107°42.5'	2981	10°55.6'	2760	41°11.5'	2627	40°19.4'	2729	–	–
5	108°12.7'	2986	10°23.8'	2777	40°38.7'	2631	40°51.4'	2731	–	–
6	108°42.9'	2990	9°52.1'	2797	40°06.0'	2635	41°23.4'	2734	–	–
7	109°13.0'	2995	9°20.6'	2818	39°33.3'	2639	41°55.4'	2736	–	–
8	109°43.1'	3000	8°49.3'	2844	39°00.6'	2644	42°27.3'	2739	–	–
9	110°13.2'	3004	8°18.1'	2873	38°27.9'	2648	42°59.3'	2742	–	–
10	110°43.3'	3009	7°47.1'	2909	37°55.3'	2652	43°31.2'	2744	–	–
11	111°13.3'	3013	7°16.4'	2951	37°22.7'	2656	44°03.1'	2747	–	–
12	111°43.3'	3018	6°46.0'	3003	36°50.2'	2660	44°34.9'	2750	–	–
13	112°13.2'	3022	6°16.0'	3069	36°17.7'	2664	45°06.8'	2752	–	–
14	112°43.1'	3026	5°46.4'	3152	35°45.2'	2668	45°38.6'	2755	–	–
15	113°13.0'	3031	5°17.3'	3262	35°12.7'	2672	46°10.5'	2758	–	–
16	113°42.9'	3035	–	–	34°40.3'	2676	46°42.2'	2761	–	–
17	114°12.7'	3040	–	–	34°07.9'	2680	47°14.0'	2763	–	–
18	114°42.5'	3044	–	–	33°35.5'	2684	47°45.8'	2766	–	–
19	115°12.3'	3048	–	–	33°03.2'	2688	48°17.5'	2769	–	–
20	115°42.0'	3052	–	–	32°30.9'	2692	48°49.2'	2772	–	–
21	116°11.7'	3057	–	–	31°58.6'	2696	49°20.9'	2775	–	–
22	116°41.4'	3061	–	–	31°26.3'	2699	49°52.6'	2778	–	–
23	117°11.1'	3065	–	–	30°54.1'	2703	50°24.2'	2781	–	–

Sat Aug 10, 2019 UTC

UTC	+Sun		-Saturn		+Spica		-Formalhaut		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	117°40.7'	3069	30°21.9'	2707	50°55.9'	2784	81°05.1'	2932	55°01.1'	3425
1	118°10.3'	3074	29°49.7'	2711	51°27.5'	2787	80°34.5'	2937	55°28.4'	3420
2	118°39.8'	3078	29°17.6'	2715	51°59.1'	2790	80°04.0'	2941	55°55.7'	3415
3	119°09.4'	3082	28°45.5'	2718	52°30.6'	2792	79°33.5'	2946	56°23.0'	3411
4	119°38.9'	3086	28°13.4'	2722	53°02.2'	2795	79°03.1'	2950	56°50.4'	3406
5	120°08.4'	3090	27°41.3'	2726	53°33.7'	2798	78°32.7'	2954	57°17.8'	3402
6	120°37.8'	3094	27°09.3'	2729	54°05.2'	2801	78°02.3'	2959	57°45.2'	3398
7	121°07.3'	3098	26°37.3'	2733	54°36.7'	2804	77°31.9'	2963	58°12.6'	3394
8	121°36.7'	3102	26°05.3'	2737	55°08.1'	2807	77°01.6'	2968	58°40.1'	3390
9	122°06.0'	3106	25°33.4'	2740	55°39.6'	2810	76°31.3'	2972	59°07.6'	3387
10	122°35.4'	3110	25°01.4'	2744	56°11.0'	2813	76°01.0'	2977	59°35.1'	3384
11	123°04.7'	3114	24°29.5'	2747	56°42.4'	2816	75°30.8'	2982	60°02.6'	3381
12	123°34.0'	3118	23°57.7'	2751	57°13.7'	2819	75°00.6'	2986	60°30.2'	3378
13	124°03.2'	3122	23°25.8'	2754	57°45.1'	2822	74°30.4'	2991	60°57.7'	3375
14	124°32.5'	3126	22°54.0'	2758	58°16.4'	2825	74°00.3'	2995	61°25.3'	3373
15	125°01.7'	3129	22°22.2'	2761	58°47.7'	2828	73°30.2'	3000	61°52.9'	3370
16	125°30.9'	3133	21°50.4'	2765	59°19.0'	2830	73°00.1'	3005	62°20.5'	3368
17	126°00.1'	3137	21°18.7'	2768	59°50.3'	2833	72°30.1'	3009	62°48.1'	3366
18	126°29.2'	3141	20°47.0'	2771	60°21.5'	2836	72°00.1'	3014	63°15.8'	3364
19	126°58.3'	3145	20°15.3'	2775	60°52.8'	2839	71°30.1'	3019	63°43.4'	3362
20	127°27.4'	3148	19°43.6'	2778	61°24.0'	2842	71°00.2'	3024	64°11.1'	3360
21	127°56.5'	3152	19°11.9'	2781	61°55.2'	2845	70°30.3'	3028	64°38.8'	3359
22	128°25.5'	3156	18°40.3'	2785	62°26.3'	2848	70°00.4'	3033	65°06.5'	3357
23	128°54.5'	3159	18°08.7'	2788	62°57.5'	2850	69°30.5'	3038	65°34.2'	3356

Sun Aug 11, 2019 UTC

UTC	-Saturn		+Jupiter		+Antares		+Spica		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	17°37.1'	2791	13°02.7'	2884	18°33.4'	3226	63°28.6'	2853	69°00.7'	3043
1	17°05.6'	2794	13°33.6'	2882	19°01.9'	3208	63°59.7'	2856	68°31.0'	3048
2	16°34.1'	2797	14°04.5'	2880	19°30.6'	3191	64°30.8'	2859	68°01.2'	3053
3	16°02.6'	2801	14°35.4'	2879	19°59.4'	3176	65°01.9'	2862	67°31.5'	3058
4	15°31.1'	2804	15°06.4'	2878	20°28.2'	3162	65°32.9'	2864	67°01.8'	3063
5	14°59.6'	2807	15°37.3'	2878	20°57.2'	3149	66°03.9'	2867	66°32.2'	3068
6	14°28.2'	2810	16°08.2'	2878	21°26.3'	3138	66°34.9'	2870	66°02.6'	3073
7	13°56.8'	2813	16°39.1'	2878	21°55.4'	3127	67°05.9'	2873	65°33.0'	3078
8	13°25.4'	2816	17°10.1'	2879	22°24.6'	3117	67°36.9'	2875	65°03.5'	3083
9	12°54.0'	2819	17°41.0'	2879	22°53.9'	3108	68°07.8'	2878	64°34.0'	3088
10	12°22.6'	2822	18°11.9'	2880	23°23.2'	3100	68°38.7'	2881	64°04.5'	3093
11	11°51.3'	2825	18°42.8'	2881	23°52.6'	3093	69°09.7'	2884	63°35.1'	3099
12	11°20.0'	2828	19°13.7'	2882	24°22.0'	3086	69°40.5'	2886	63°05.7'	3104
13	10°48.7'	2831	19°44.6'	2883	24°51.5'	3080	70°11.4'	2889	62°36.3'	3109
14	10°17.4'	2834	20°15.5'	2885	25°21.0'	3074	70°42.3'	2892	62°07.0'	3115
15	9°46.2'	2837	20°46.4'	2886	25°50.6'	3069	71°13.1'	2894	61°37.7'	3120
16	9°15.0'	2840	21°17.3'	2888	26°20.2'	3064	71°43.9'	2897	61°08.4'	3126
17	8°43.8'	2842	21°48.1'	2889	26°49.8'	3059	72°14.7'	2899	60°39.2'	3131
18	8°12.6'	2845	22°19.0'	2891	27°19.5'	3055	72°45.5'	2902	60°10.1'	3137
19	7°41.4'	2848	22°49.8'	2893	27°49.2'	3052	73°16.2'	2905	59°40.9'	3142
20	7°10.3'	2851	23°20.6'	2894	28°18.9'	3048	73°47.0'	2907	59°11.8'	3148
21	6°39.2'	2854	23°51.5'	2896	28°48.6'	3045	74°17.7'	2910	58°42.8'	3154
22	6°08.1'	2856	24°22.2'	2898	29°18.4'	3043	74°48.4'	2912	58°13.7'	3160
23	5°37.0'	2859	24°53.0'	2900	29°48.2'	3040	75°19.1'	2915	57°44.7'	3166

Mon Aug 12, 2019 UTC

UTC	−Saturn		+Jupiter		+Antares		−Formalhaut		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	5°05.9′	2862	25°23.8′	2902	30°18.0′	3038	57°15.8′	3172	75°49.8′	2917
1	4°34.9′	2864	25°54.6′	2904	30°47.8′	3036	56°46.9′	3178	76°20.4′	2920
2	4°03.8′	2867	26°25.3′	2906	31°17.6′	3034	56°18.0′	3184	76°51.0′	2922
3	3°32.8′	2870	26°56.0′	2908	31°47.4′	3032	55°49.2′	3191	77°21.6′	2925
4	3°01.8′	2873	27°26.8′	2910	32°17.3′	3031	55°20.4′	3197	77°52.2′	2927
5	2°30.9′	2875	27°57.5′	2912	32°47.1′	3030	54°51.7′	3203	78°22.8′	2930
6	1°59.9′	2878	28°28.2′	2914	33°17.0′	3029	54°23.0′	3210	78°53.4′	2932
7	1°29.0′	2882	28°58.8′	2916	33°46.9′	3028	53°54.4′	3217	79°23.9′	2934
8	58.1′	2890	29°29.5′	2918	34°16.8′	3027	53°25.7′	3224	79°54.5′	2937
9	–	–	30°00.1′	2920	34°46.6′	3026	52°57.2′	3230	80°25.0′	2939
10	–	–	30°30.8′	2922	35°16.5′	3025	52°28.7′	3237	80°55.5′	2942
11	34.7′	2895	31°01.4′	2924	35°46.4′	3025	52°00.2′	3245	81°25.9′	2944
12	1°05.5′	2894	31°32.0′	2926	36°16.3′	3025	51°31.8′	3252	81°56.4′	2946
13	1°36.3′	2896	32°02.6′	2928	36°46.2′	3024	51°03.4′	3259	82°26.9′	2949
14	2°07.1′	2898	32°33.1′	2930	37°16.1′	3024	50°35.1′	3267	82°57.3′	2951
15	2°37.9′	2900	33°03.7′	2932	37°46.0′	3024	50°06.8′	3274	83°27.7′	2953
16	3°08.6′	2902	33°34.2′	2934	38°15.9′	3024	49°38.6′	3282	83°58.1′	2956
17	3°39.4′	2904	34°04.8′	2936	38°45.9′	3024	49°10.4′	3290	84°28.5′	2958
18	4°10.1′	2907	34°35.3′	2938	39°15.8′	3024	48°42.2′	3298	84°58.8′	2960
19	4°40.9′	2909	35°05.8′	2941	39°45.7′	3024	48°14.2′	3307	85°29.2′	2962
20	5°11.6′	2911	35°36.3′	2943	40°15.6′	3025	47°46.1′	3315	85°59.5′	2965
21	5°42.3′	2913	36°06.7′	2945	40°45.5′	3025	47°18.2′	3324	86°29.8′	2967
22	6°12.9′	2916	36°37.2′	2947	41°15.4′	3025	46°50.3′	3333	87°00.1′	2969
23	6°43.6′	2918	37°07.6′	2949	41°45.3′	3026	46°22.4′	3342	87°30.4′	2971

Tue Aug 13, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		−Formalhaut		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	7°14.3′	2920	37°38.1′	2951	42°15.1′	3026	45°54.6′	3351	88°00.7′	2973
1	7°44.9′	2922	38°08.5′	2953	42°45.0′	3027	45°26.9′	3360	88°31.0′	2975
2	8°15.5′	2924	38°38.9′	2955	43°14.9′	3027	44°59.2′	3370	89°01.2′	2978
3	8°46.1′	2927	39°09.3′	2957	43°44.8′	3028	44°31.6′	3380	89°31.4′	2980
4	9°16.7′	2929	39°39.6′	2959	44°14.7′	3029	44°04.0′	3390	90°01.6′	2982
5	9°47.2′	2931	40°10.0′	2961	44°44.6′	3029	43°36.5′	3401	90°31.8′	2984
6	10°17.8′	2933	40°40.4′	2962	45°14.4′	3030	43°09.1′	3411	91°02.0′	2986
7	10°48.3′	2935	41°10.7′	2964	45°44.3′	3031	42°41.8′	3422	91°32.2′	2988
8	11°18.9′	2937	41°41.0′	2966	46°14.2′	3031	42°14.5′	3434	92°02.3′	2990
9	11°49.4′	2939	42°11.3′	2968	46°44.0′	3032	41°47.3′	3445	92°32.5′	2992
10	12°19.9′	2941	42°41.6′	2970	47°13.9′	3033	41°20.1′	3457	93°02.6′	2994
11	12°50.4′	2943	43°11.9′	2972	47°43.7′	3034	40°53.1′	3469	93°32.7′	2996
12	13°20.8′	2945	43°42.1′	2974	48°13.5′	3035	40°26.1′	3482	94°02.8′	2998
13	13°51.3′	2947	44°12.4′	2976	48°43.4′	3036	39°59.2′	3495	94°32.9′	3000
14	14°21.7′	2949	44°42.6′	2978	49°13.2′	3036	39°32.3′	3509	95°03.0′	3002
15	14°52.1′	2951	45°12.9′	2980	49°43.0′	3037	39°05.6′	3522	95°33.0′	3004
16	15°22.6′	2953	45°43.1′	2981	50°12.8′	3038	38°38.9′	3537	96°03.0′	3006
17	15°53.0′	2955	46°13.3′	2983	50°42.6′	3039	38°12.3′	3551	96°33.1′	3008
18	16°23.3′	2957	46°43.5′	2985	51°12.4′	3040	37°45.9′	3567	97°03.1′	3010
19	16°53.7′	2959	47°13.6′	2987	51°42.2′	3041	37°19.5′	3582	97°33.1′	3012
20	17°24.1′	2960	47°43.8′	2989	52°12.0′	3042	36°53.2′	3599	98°03.1′	3014
21	17°54.4′	2962	48°14.0′	2990	52°41.8′	3043	36°27.0′	3616	98°33.0′	3016
22	18°24.8′	2964	48°44.1′	2992	53°11.6′	3044	36°00.9′	3633	99°03.0′	3018
23	18°55.1′	2966	49°14.2′	2994	53°41.3′	3045	35°34.9′	3651	99°33.0′	3020

Wed Aug 14, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		-Formalhaut		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	19°25.4'	2968	49°44.3'	2996	54°11.1'	3046	35°09.0'	3670	100°02.9'	3022
1	19°55.7'	2969	50°14.4'	2997	54°40.9'	3047	34°43.2'	3689	100°32.8'	3024
2	20°26.0'	2971	50°44.5'	2999	55°10.6'	3048	34°17.6'	3709	101°02.7'	3026
3	20°56.2'	2973	51°14.6'	3001	55°40.4'	3049	33°52.0'	3730	101°32.6'	3027
4	21°26.5'	2975	51°44.7'	3002	56°10.1'	3050	33°26.6'	3752	102°02.5'	3029
5	21°56.7'	2976	52°14.7'	3004	56°39.8'	3051	33°01.3'	3774	102°32.4'	3031
6	22°27.0'	2978	52°44.8'	3006	57°09.5'	3052	32°36.2'	3798	103°02.2'	3033
7	22°57.2'	2980	53°14.8'	3007	57°39.2'	3053	32°11.1'	3822	103°32.1'	3035
8	23°27.4'	2981	53°44.8'	3009	58°08.9'	3054	31°46.2'	3848	104°01.9'	3037
9	23°57.6'	2983	54°14.8'	3010	58°38.6'	3055	31°21.5'	3874	104°31.7'	3038
10	24°27.8'	2985	54°44.8'	3012	59°08.3'	3056	30°56.9'	3902	105°01.5'	3040
11	24°58.0'	2986	55°14.8'	3014	59°38.0'	3057	30°32.5'	3931	105°31.3'	3042
12	25°28.1'	2988	55°44.8'	3015	60°07.7'	3059	30°08.2'	3961	106°01.1'	3044
13	25°58.3'	2989	56°14.8'	3017	60°37.4'	3060	29°44.1'	3992	106°30.9'	3045
14	26°28.5'	2991	56°44.7'	3018	61°07.0'	3061	29°20.2'	4025	107°00.6'	3047
15	26°58.6'	2992	57°14.7'	3020	61°36.7'	3062	28°56.4'	4060	107°30.4'	3049
16	27°28.7'	2994	57°44.6'	3021	62°06.3'	3063	28°32.9'	4096	108°00.1'	3051
17	27°58.8'	2996	58°14.5'	3023	62°36.0'	3064	28°09.5'	4134	108°29.8'	3052
18	28°28.9'	2997	58°44.4'	3024	63°05.6'	3065	27°46.3'	4173	108°59.5'	3054
19	28°59.0'	2999	59°14.3'	3026	63°35.2'	3066	27°23.4'	4215	109°29.2'	3056
20	29°29.1'	3000	59°44.2'	3027	64°04.8'	3067	27°00.7'	4259	109°58.9'	3057
21	29°59.2'	3001	60°14.1'	3029	64°34.5'	3068	26°38.2'	4304	110°28.6'	3059
22	30°29.2'	3003	60°44.0'	3030	65°04.1'	3069	26°15.9'	4353	110°58.3'	3061
23	30°59.3'	3004	61°13.9'	3031	65°33.7'	3070	25°53.9'	4404	111°27.9'	3062

Thu Aug 15, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		-Formalhaut		-Aldebaran	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	31°29.3'	3006	61°43.7'	3033	66°03.2'	3071	25°32.1'	4457	113°27.4'	3028
1	31°59.4'	3007	62°13.6'	3034	66°32.8'	3072	25°10.6'	4514	112°57.5'	3029
2	32°29.4'	3008	62°43.4'	3035	67°02.4'	3073	24°49.4'	4573	112°27.6'	3031
3	32°59.4'	3010	63°13.2'	3037	67°32.0'	3074	24°28.4'	4636	111°57.7'	3032
4	33°29.4'	3011	63°43.0'	3038	68°01.5'	3075	24°07.8'	4703	111°27.9'	3033
5	33°59.4'	3012	64°12.8'	3039	68°31.1'	3076	23°47.5'	4773	110°58.1'	3035
6	34°29.4'	3014	64°42.6'	3041	69°00.7'	3077	23°27.5'	4848	110°28.2'	3036
7	34°59.4'	3015	65°12.4'	3042	69°30.2'	3078	23°07.9'	4927	109°58.4'	3037
8	35°29.3'	3016	65°42.2'	3043	69°59.7'	3079	22°48.6'	5011	109°28.6'	3038
9	35°59.3'	3017	66°12.0'	3045	70°29.3'	3080	22°29.6'	5100	108°58.8'	3040
10	36°29.2'	3019	66°41.8'	3046	70°58.8'	3081	22°11.1'	5194	108°29.0'	3041
11	36°59.2'	3020	67°11.5'	3047	71°28.3'	3082	21°52.9'	5295	107°59.2'	3042
12	37°29.1'	3021	67°41.3'	3048	71°57.8'	3083	21°35.2'	5402	107°29.4'	3043
13	37°59.0'	3022	68°11.0'	3049	72°27.3'	3083	21°17.9'	5517	106°59.6'	3044
14	38°28.9'	3023	68°40.7'	3051	72°56.8'	3084	21°01.1'	5639	106°29.9'	3045
15	38°58.9'	3025	69°10.5'	3052	73°26.3'	3085	20°44.7'	5770	106°00.1'	3046
16	39°28.8'	3026	69°40.2'	3053	73°55.8'	3086	20°28.8'	5910	105°30.4'	3048
17	39°58.7'	3027	70°09.9'	3054	74°25.3'	3087	20°13.4'	6060	105°00.6'	3049
18	40°28.5'	3028	70°39.6'	3055	74°54.8'	3088	19°58.5'	6221	104°30.9'	3050
19	40°58.4'	3029	71°09.3'	3056	75°24.2'	3089	19°44.2'	6395	104°01.1'	3051
20	41°28.3'	3030	71°39.0'	3057	75°53.7'	3090	19°30.5'	6582	103°31.4'	3052
21	41°58.2'	3031	72°08.6'	3058	76°23.1'	3091	19°17.3'	6784	103°01.7'	3053
22	42°28.0'	3032	72°38.3'	3059	76°52.6'	3091	19°04.7'	7004	102°32.0'	3054
23	42°57.9'	3033	73°08.0'	3060	77°22.0'	3092	18°52.7'	7242	102°02.3'	3055

Fri Aug 16, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		-Aldebaran		-Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	43°27.7'	3034	73°37.6'	3061	77°51.5'	3093	101°32.6'	3056	118°27.8'	3231
1	43°57.5'	3035	74°07.3'	3062	78°20.9'	3094	101°02.9'	3057	117°59.2'	3230
2	44°27.4'	3036	74°36.9'	3063	78°50.3'	3095	100°33.2'	3058	117°30.7'	3230
3	44°57.2'	3037	75°06.6'	3064	79°19.8'	3095	100°03.6'	3059	117°02.2'	3229
4	45°27.0'	3038	75°36.2'	3065	79°49.2'	3096	99°33.9'	3059	116°33.7'	3228
5	45°56.8'	3039	76°05.8'	3066	80°18.6'	3097	99°04.2'	3060	116°05.1'	3228
6	46°26.6'	3040	76°35.4'	3067	80°48.0'	3098	98°34.6'	3061	115°36.6'	3227
7	46°56.4'	3040	77°05.0'	3068	81°17.4'	3098	98°04.9'	3062	115°08.1'	3227
8	47°26.2'	3041	77°34.6'	3069	81°46.8'	3099	97°35.3'	3063	114°39.5'	3226
9	47°56.0'	3042	78°04.2'	3069	82°16.2'	3100	97°05.6'	3064	114°11.0'	3226
10	48°25.8'	3043	78°33.8'	3070	82°45.6'	3100	96°36.0'	3064	113°42.4'	3225
11	48°55.6'	3044	79°03.4'	3071	83°15.0'	3101	96°06.4'	3065	113°13.9'	3225
12	49°25.3'	3044	79°33.0'	3072	83°44.3'	3102	95°36.8'	3066	112°45.3'	3224
13	49°55.1'	3045	80°02.6'	3073	84°13.7'	3102	95°07.1'	3067	112°16.8'	3224
14	50°24.9'	3046	80°32.2'	3073	84°43.1'	3103	94°37.5'	3067	111°48.2'	3224
15	50°54.6'	3047	81°01.7'	3074	85°12.5'	3104	94°07.9'	3068	111°19.6'	3223
16	51°24.4'	3047	81°31.3'	3075	85°41.8'	3104	93°38.3'	3069	110°51.1'	3223
17	51°54.1'	3048	82°00.9'	3075	86°11.2'	3105	93°08.7'	3069	110°22.5'	3223
18	52°23.8'	3049	82°30.4'	3076	86°40.5'	3106	92°39.1'	3070	109°53.9'	3222
19	52°53.6'	3049	82°60.0'	3077	87°09.9'	3106	92°09.5'	3070	109°25.4'	3222
20	53°23.3'	3050	83°29.5'	3077	87°39.2'	3107	91°39.9'	3071	108°56.8'	3222
21	53°53.0'	3050	83°59.0'	3078	88°08.6'	3107	91°10.4'	3072	108°28.2'	3221
22	54°22.8'	3051	84°28.6'	3079	88°37.9'	3108	90°40.8'	3072	107°59.6'	3221
23	54°52.5'	3051	84°58.1'	3079	89°07.2'	3108	90°11.2'	3073	107°31.1'	3221

Sat Aug 17, 2019 UTC

UTC	+Saturn		+Jupiter		-Aldebaran		+Antares		-Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	55°22.2'	3052	85°27.6'	3080	89°41.6'	3073	89°36.6'	3109	107°02.5'	3220
1	55°51.9'	3052	85°57.2'	3080	89°12.1'	3074	90°05.9'	3109	106°33.9'	3220
2	56°21.6'	3053	86°26.7'	3081	88°42.5'	3074	90°35.2'	3110	106°05.3'	3220
3	56°51.3'	3053	86°56.2'	3081	88°12.9'	3075	91°04.5'	3110	105°36.7'	3219
4	57°21.0'	3054	87°25.7'	3082	87°43.4'	3075	91°33.9'	3110	105°08.1'	3219
5	57°50.7'	3054	87°55.2'	3082	87°13.8'	3075	92°03.2'	3111	104°39.6'	3219
6	58°20.4'	3055	88°24.7'	3082	86°44.3'	3076	92°32.5'	3111	104°11.0'	3219
7	58°50.1'	3055	88°54.2'	3083	86°14.7'	3076	93°01.8'	3112	103°42.4'	3218
8	59°19.8'	3055	89°23.7'	3083	85°45.2'	3076	93°31.1'	3112	103°13.8'	3218
9	59°49.5'	3056	89°53.2'	3083	85°15.6'	3077	94°00.4'	3112	102°45.2'	3218
10	60°19.2'	3056	90°22.7'	3084	84°46.1'	3077	94°29.7'	3113	102°16.6'	3218
11	60°48.9'	3056	90°52.2'	3084	84°16.5'	3077	94°59.0'	3113	101°48.0'	3217
12	61°18.6'	3056	91°21.7'	3084	83°47.0'	3077	95°28.3'	3113	101°19.4'	3217
13	61°48.3'	3057	91°51.2'	3085	83°17.4'	3078	95°57.6'	3113	100°50.8'	3217
14	62°17.9'	3057	92°20.7'	3085	82°47.9'	3078	96°26.9'	3114	100°22.2'	3217
15	62°47.6'	3057	92°50.2'	3085	82°18.4'	3078	96°56.2'	3114	99°53.5'	3216
16	63°17.3'	3057	93°19.7'	3085	81°48.8'	3078	97°25.5'	3114	99°24.9'	3216
17	63°47.0'	3057	93°49.2'	3085	81°19.3'	3078	97°54.8'	3114	98°56.3'	3216
18	64°16.7'	3057	94°18.7'	3085	80°49.8'	3078	98°24.1'	3115	98°27.7'	3216
19	64°46.3'	3057	94°48.2'	3086	80°20.2'	3078	98°53.4'	3115	97°59.1'	3215
20	65°16.0'	3057	95°17.6'	3086	79°50.7'	3078	99°22.7'	3115	97°30.5'	3215
21	65°45.7'	3057	95°47.1'	3086	79°21.2'	3078	99°51.9'	3115	97°01.9'	3215
22	66°15.4'	3057	96°16.6'	3086	78°51.6'	3078	100°21.2'	3115	96°33.2'	3214
23	66°45.0'	3057	96°46.1'	3086	78°22.1'	3078	100°50.5'	3115	96°04.6'	3214

Sun Aug 18, 2019 UTC

UTC	+Saturn		-Aldebaran		+Jupiter		+Antares		-Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	67°14.7'	3057	77°52.6'	3078	97°15.6'	3086	101°19.8'	3115	95°36.0'	3214
1	67°44.4'	3057	77°23.0'	3078	97°45.1'	3086	101°49.1'	3115	95°07.4'	3213
2	68°14.1'	3057	76°53.5'	3078	98°14.5'	3086	102°18.4'	3115	94°38.7'	3213
3	68°43.7'	3057	76°24.0'	3078	98°44.0'	3085	102°47.7'	3115	94°10.1'	3213
4	69°13.4'	3057	75°54.4'	3078	99°13.5'	3085	103°16.9'	3115	93°41.5'	3212
5	69°43.1'	3057	75°24.9'	3078	99°43.0'	3085	103°46.2'	3115	93°12.8'	3212
6	70°12.8'	3056	74°55.4'	3077	100°12.5'	3085	104°15.5'	3115	92°44.2'	3212
7	70°42.5'	3056	74°25.8'	3077	100°42.0'	3085	104°44.8'	3115	92°15.6'	3211
8	71°12.1'	3056	73°56.3'	3077	101°11.5'	3085	105°14.1'	3115	91°46.9'	3211
9	71°41.8'	3056	73°26.7'	3077	101°41.0'	3084	105°43.4'	3115	91°18.3'	3211
10	72°11.5'	3055	72°57.2'	3076	102°10.5'	3084	106°12.7'	3115	90°49.6'	3210
11	72°41.2'	3055	72°27.6'	3076	102°39.9'	3084	106°41.9'	3114	90°21.0'	3210
12	73°10.9'	3055	71°58.1'	3075	103°09.4'	3083	107°11.2'	3114	89°52.3'	3209
13	73°40.6'	3054	71°28.5'	3075	103°38.9'	3083	107°40.5'	3114	89°23.7'	3209
14	74°10.3'	3054	70°59.0'	3075	104°08.5'	3082	108°09.8'	3114	88°55.0'	3209
15	74°40.0'	3053	70°29.4'	3074	104°38.0'	3082	108°39.1'	3113	88°26.3'	3208
16	75°09.7'	3053	69°59.9'	3074	105°07.5'	3082	109°08.4'	3113	87°57.7'	3208
17	75°39.4'	3052	69°30.3'	3073	105°37.0'	3081	109°37.7'	3113	87°29.0'	3207
18	76°09.1'	3052	69°00.7'	3073	106°06.5'	3081	110°07.0'	3113	87°00.3'	3207
19	76°38.8'	3051	68°31.1'	3072	106°36.0'	3080	110°36.3'	3112	86°31.7'	3206
20	77°08.6'	3050	68°01.6'	3071	107°05.5'	3079	111°05.6'	3112	86°03.0'	3206
21	77°38.3'	3050	67°32.0'	3071	107°35.1'	3079	111°34.9'	3111	85°34.3'	3205
22	78°08.0'	3049	67°02.4'	3070	108°04.6'	3078	112°04.2'	3111	85°05.6'	3205
23	78°37.8'	3048	66°32.8'	3069	108°34.1'	3077	112°33.5'	3111	84°37.0'	3204

Mon Aug 19, 2019 UTC

UTC	-Aldebaran		+Saturn		+Formalhaut		-Betelgeuse		-Capella	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	66°03.2'	3068	79°07.5'	3047	32°52.7'	3830	84°08.3'	3204	81°22.3'	3501
1	65°33.6'	3068	79°37.2'	3047	33°17.6'	3809	83°39.6'	3203	80°55.5'	3501
2	65°04.0'	3067	80°07.0'	3046	33°42.5'	3789	83°10.9'	3203	80°28.7'	3502
3	64°34.4'	3066	80°36.8'	3045	34°07.6'	3770	82°42.2'	3202	80°01.9'	3502
4	64°04.8'	3065	81°06.5'	3044	34°32.8'	3751	82°13.5'	3202	79°35.1'	3502
5	63°35.2'	3064	81°36.3'	3043	34°58.1'	3733	81°44.8'	3201	79°08.3'	3503
6	63°05.5'	3063	82°06.1'	3042	35°23.5'	3716	81°16.1'	3200	78°41.5'	3504
7	62°35.9'	3062	82°35.8'	3041	35°49.0'	3700	80°47.3'	3200	78°14.8'	3504
8	62°06.2'	3061	83°05.6'	3040	36°14.6'	3684	80°18.6'	3199	77°48.0'	3505
9	61°36.6'	3060	83°35.4'	3039	36°40.3'	3668	79°49.9'	3199	77°21.2'	3505
10	61°06.9'	3059	84°05.2'	3038	37°06.1'	3653	79°21.2'	3198	76°54.4'	3506
11	60°37.3'	3058	84°35.0'	3037	37°31.9'	3638	78°52.4'	3197	76°27.7'	3507
12	60°07.6'	3057	85°04.8'	3036	37°57.9'	3624	78°23.7'	3197	76°00.9'	3507
13	59°37.9'	3056	85°34.7'	3034	38°23.9'	3611	77°55.0'	3196	75°34.2'	3508
14	59°08.2'	3055	86°04.5'	3033	38°50.1'	3598	77°26.2'	3195	75°07.4'	3509
15	58°38.5'	3053	86°34.4'	3032	39°16.3'	3585	76°57.5'	3194	74°40.7'	3510
16	58°08.8'	3052	87°04.2'	3031	39°42.6'	3572	76°28.7'	3194	74°13.9'	3511
17	57°39.1'	3051	87°34.1'	3029	40°08.9'	3560	75°60.0'	3193	73°47.2'	3512
18	57°09.4'	3049	88°03.9'	3028	40°35.3'	3548	75°31.2'	3192	73°20.5'	3513
19	56°39.7'	3048	88°33.8'	3026	41°01.8'	3537	75°02.4'	3192	72°53.8'	3514
20	56°09.9'	3047	89°03.7'	3025	41°28.4'	3526	74°33.6'	3191	72°27.0'	3515
21	55°40.2'	3045	89°33.6'	3024	41°55.1'	3515	74°04.9'	3190	72°00.3'	3516
22	55°10.4'	3044	90°03.5'	3022	42°21.8'	3505	73°36.1'	3189	71°33.6'	3517
23	54°40.6'	3042	90°33.4'	3020	42°48.5'	3494	73°07.3'	3188	71°06.9'	3519

Tue Aug 20, 2019 UTC

UTC	−Aldebaran		+Formalhaut		−Betelgeuse		+Saturn		−Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	54°10.9′	3041	43°15.4′	3484	72°38.5′	3188	91°03.4′	3019	98°22.5′	3060
1	53°41.1′	3039	43°42.3′	3474	72°09.7′	3187	91°33.3′	3017	97°52.8′	3058
2	53°11.3′	3037	44°09.2′	3465	71°40.9′	3186	92°03.2′	3016	97°23.1′	3056
3	52°41.5′	3036	44°36.3′	3456	71°12.1′	3185	92°33.2′	3014	96°53.5′	3054
4	52°11.6′	3034	45°03.3′	3446	70°43.3′	3184	93°03.2′	3012	96°23.8′	3053
5	51°41.8′	3032	45°30.5′	3438	70°14.5′	3184	93°33.2′	3010	95°54.0′	3051
6	51°11.9′	3030	45°57.7′	3429	69°45.6′	3183	94°03.2′	3008	95°24.3′	3049
7	50°42.1′	3029	46°24.9′	3420	69°16.8′	3182	94°33.2′	3007	94°54.6′	3047
8	50°12.2′	3027	46°52.2′	3412	68°48.0′	3181	95°03.2′	3005	94°24.8′	3045
9	49°42.3′	3025	47°19.5′	3404	68°19.1′	3180	95°33.3′	3003	93°55.1′	3043
10	49°12.4′	3023	47°47.0′	3396	67°50.3′	3179	96°03.3′	3001	93°25.3′	3041
11	48°42.5′	3021	48°14.4′	3388	67°21.4′	3179	96°33.4′	2999	92°55.5′	3039
12	48°12.6′	3019	48°41.9′	3380	66°52.6′	3178	97°03.5′	2997	92°25.7′	3037
13	47°42.7′	3017	49°09.5′	3372	66°23.7′	3177	97°33.5′	2995	91°55.9′	3035
14	47°12.7′	3015	49°37.1′	3365	65°54.8′	3176	98°03.7′	2992	91°26.1′	3032
15	46°42.7′	3013	50°04.7′	3357	65°25.9′	3175	98°33.8′	2990	90°56.2′	3030
16	46°12.7′	3011	50°32.4′	3350	64°57.1′	3174	99°03.9′	2988	90°26.4′	3028
17	45°42.8′	3009	51°00.2′	3343	64°28.2′	3173	99°34.1′	2986	89°56.5′	3026
18	45°12.7′	3006	51°27.9′	3336	63°59.3′	3173	100°04.2′	2983	89°26.6′	3023
19	44°42.7′	3004	51°55.8′	3329	63°30.4′	3172	100°34.4′	2981	88°56.7′	3021
20	44°12.7′	3002	52°23.7′	3322	63°01.5′	3171	101°04.6′	2979	88°26.7′	3019
21	43°42.6′	3000	52°51.6′	3315	62°32.6′	3170	101°34.9′	2976	87°56.8′	3016
22	43°12.5′	2997	53°19.5′	3308	62°03.6′	3169	102°05.1′	2974	87°26.8′	3014
23	42°42.4′	2995	53°47.6′	3302	61°34.7′	3168	102°35.3′	2971	86°56.9′	3011

Wed Aug 21, 2019 UTC

UTC	−Sun		−Aldebaran		−Betelgeuse		+Formalhaut		−Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	119°52.5′	3354	42°12.3′	2992	61°05.8′	3168	54°15.6′	3295	86°26.9′	3009
1	119°24.8′	3351	41°42.2′	2990	60°36.9′	3167	54°43.7′	3289	85°56.9′	3006
2	118°57.1′	3348	41°12.1′	2987	60°07.9′	3166	55°11.8′	3282	85°26.8′	3003
3	118°29.3′	3345	40°41.9′	2985	59°39.0′	3165	55°40.0′	3276	84°56.8′	3001
4	118°01.5′	3342	40°11.7′	2982	59°10.0′	3164	56°08.2′	3270	84°26.7′	2998
5	117°33.7′	3339	39°41.6′	2980	58°41.1′	3164	56°36.5′	3263	83°56.6′	2995
6	117°05.9′	3336	39°11.3′	2977	58°12.1′	3163	57°04.8′	3257	83°26.5′	2992
7	116°38.1′	3333	38°41.1′	2975	57°43.1′	3162	57°33.1′	3251	82°56.4′	2990
8	116°10.2′	3329	38°10.9′	2972	57°14.2′	3162	58°01.5′	3245	82°26.3′	2987
9	115°42.4′	3326	37°40.6′	2969	56°45.2′	3161	58°29.9′	3239	81°56.1′	2984
10	115°14.5′	3323	37°10.3′	2966	56°16.2′	3160	58°58.4′	3233	81°25.9′	2981
11	114°46.6′	3320	36°40.0′	2964	55°47.2′	3160	59°26.9′	3227	80°55.7′	2978
12	114°18.6′	3316	36°09.7′	2961	55°18.3′	3159	59°55.4′	3221	80°25.5′	2975
13	113°50.7′	3313	35°39.3′	2958	54°49.3′	3159	60°24.0′	3215	79°55.2′	2972
14	113°22.7′	3309	35°09.0′	2955	54°20.3′	3158	60°52.6′	3210	79°25.0′	2969
15	112°54.7′	3306	34°38.6′	2952	53°51.3′	3158	61°21.3′	3204	78°54.7′	2966
16	112°26.6′	3302	34°08.2′	2949	53°22.3′	3158	61°50.0′	3198	78°24.4′	2962
17	111°58.6′	3299	33°37.8′	2946	52°53.3′	3157	62°18.7′	3192	77°54.0′	2959
18	111°30.5′	3295	33°07.3′	2943	52°24.3′	3157	62°47.5′	3187	77°23.7′	2956
19	111°02.4′	3291	32°36.8′	2940	51°55.3′	3157	63°16.3′	3181	76°53.3′	2953
20	110°34.3′	3288	32°06.4′	2937	51°26.3′	3157	63°45.1′	3175	76°22.9′	2949
21	110°06.2′	3284	31°35.8′	2934	50°57.3′	3157	64°14.0′	3170	75°52.5′	2946
22	109°38.0′	3280	31°05.3′	2931	50°28.3′	3157	64°42.9′	3164	75°22.0′	2943
23	109°09.8′	3276	30°34.8′	2928	49°59.3′	3157	65°11.9′	3159	74°51.6′	2939

Thu Aug 22, 2019 UTC

UTC	−Sun		−Aldebaran		−Betelgeuse		−Pollux		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	108°41.6′	3272	30°04.2′	2925	49°30.3′	3157	74°21.1′	2936	65°40.9′	3153
1	108°13.3′	3268	29°33.6′	2921	49°01.3′	3157	73°50.5′	2932	66°09.9′	3147
2	107°45.1′	3264	29°03.0′	2918	48°32.3′	3158	73°20.0′	2929	66°39.0′	3142
3	107°16.8′	3260	28°32.3′	2915	48°03.3′	3158	72°49.4′	2925	67°08.1′	3136
4	106°48.4′	3256	28°01.7′	2912	47°34.3′	3158	72°18.8′	2922	67°37.2′	3131
5	106°20.1′	3252	27°31.0′	2909	47°05.3′	3159	71°48.2′	2918	68°06.4′	3125
6	105°51.7′	3248	27°00.3′	2906	46°36.3′	3160	71°17.6′	2914	68°35.6′	3120
7	105°23.3′	3243	26°29.5′	2902	46°07.3′	3161	70°46.9′	2910	69°04.9′	3114
8	104°54.9′	3239	25°58.8′	2899	45°38.3′	3162	70°16.2′	2907	69°34.2′	3109
9	104°26.4′	3235	25°28.0′	2896	45°09.3′	3163	69°45.5′	2903	70°03.5′	3103
10	103°57.9′	3231	24°57.2′	2893	44°40.4′	3164	69°14.7′	2899	70°32.9′	3098
11	103°29.4′	3226	24°26.4′	2889	44°11.4′	3166	68°43.9′	2895	71°02.3′	3092
12	103°00.9′	3222	23°55.5′	2886	43°42.5′	3167	68°13.1′	2891	71°31.7′	3087
13	102°32.3′	3217	23°24.7′	2883	43°13.5′	3169	67°42.3′	2887	72°01.2′	3081
14	102°03.7′	3213	22°53.8′	2880	42°44.6′	3171	67°11.4′	2883	72°30.7′	3076
15	101°35.1′	3208	22°22.8′	2877	42°15.7′	3173	66°40.6′	2879	73°00.2′	3071
16	101°06.4′	3204	21°51.9′	2874	41°46.8′	3175	66°09.6′	2875	73°29.8′	3065
17	100°37.7′	3199	21°21.0′	2871	41°17.9′	3178	65°38.7′	2871	73°59.4′	3060
18	100°09.0′	3194	20°50.0′	2868	40°49.1′	3181	65°07.7′	2867	74°29.1′	3054
19	99°40.2′	3189	20°19.0′	2865	40°20.2′	3184	64°36.7′	2863	74°58.8′	3049
20	99°11.4′	3185	19°48.0′	2862	39°51.4′	3187	64°05.7′	2859	75°28.5′	3043
21	98°42.6′	3180	19°16.9′	2860	39°22.6′	3191	63°34.6′	2855	75°58.3′	3038
22	98°13.8′	3175	18°45.9′	2857	38°53.8′	3195	63°03.5′	2850	76°28.1′	3032
23	97°44.9′	3170	18°14.8′	2855	38°25.1′	3199	62°32.4′	2846	76°58.0′	3027

Fri Aug 23, 2019 UTC

UTC	−Sun		−Aldebaran		−Pollux		−Betelgeuse		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	97°16.0′	3165	17°43.7′	2852	62°01.2′	2842	37°56.3′	3203	77°27.8′	3022
1	96°47.0′	3160	17°12.6′	2850	61°30.0′	2838	37°27.6′	3208	77°57.8′	3016
2	96°18.0′	3155	16°41.4′	2848	60°58.8′	2833	36°59.0′	3213	78°27.7′	3011
3	95°49.0′	3150	16°10.3′	2847	60°27.6′	2829	36°30.3′	3219	78°57.7′	3005
4	95°20.0′	3145	15°39.2′	2845	59°56.3′	2824	36°01.7′	3225	79°27.8′	3000
5	94°50.9′	3140	15°08.0′	2844	59°25.0′	2820	35°33.2′	3232	79°57.8′	2994
6	94°21.7′	3134	14°36.8′	2844	58°53.6′	2816	35°04.7′	3239	80°27.9′	2989
7	93°52.6′	3129	14°05.7′	2844	58°22.3′	2811	34°36.2′	3246	80°58.1′	2983
8	93°23.4′	3124	13°34.5′	2844	57°50.9′	2807	34°07.8′	3254	81°28.3′	2978
9	92°54.2′	3119	13°03.3′	2845	57°19.4′	2802	33°39.4′	3263	81°58.5′	2972
10	92°24.9′	3113	12°32.2′	2847	56°48.0′	2798	33°11.1′	3272	82°28.8′	2967
11	91°55.6′	3108	12°01.0′	2849	56°16.4′	2793	32°42.9′	3282	82°59.1′	2961
12	91°26.3′	3103	11°29.9′	2853	55°44.9′	2788	32°14.7′	3292	83°29.4′	2956
13	90°56.9′	3097	10°58.8′	2858	55°13.3′	2784	31°46.6′	3304	83°59.8′	2951
14	90°27.5′	3092	10°27.7′	2865	54°41.7′	2779	31°18.6′	3316	84°30.2′	2945
15	89°58.1′	3086	9°56.7′	2873	54°10.1′	2774	30°50.6′	3329	85°00.7′	2940
16	89°28.6′	3080	9°25.7′	2884	53°38.4′	2770	30°22.7′	3343	85°31.1′	2934
17	88°59.1′	3075	8°54.8′	2898	53°06.7′	2765	29°54.9′	3358	86°01.7′	2929
18	88°29.5′	3069	8°24.0′	2916	52°35.0′	2760	29°27.2′	3374	86°32.2′	2923
19	87°59.9′	3064	7°53.4′	2939	52°03.2′	2756	28°59.6′	3391	87°02.9′	2918
20	87°30.3′	3058	7°22.9′	2968	51°31.4′	2751	28°32.2′	3409	87°33.5′	2912
21	87°00.6′	3052	6°52.6′	3006	50°59.5′	2746	28°04.8′	3429	88°04.2′	2907
22	86°30.9′	3046	6°22.6′	3055	50°27.6′	2741	27°37.6′	3450	88°34.9′	2901
23	86°01.1′	3040	5°52.9′	3121	49°55.7′	2737	27°10.4′	3473	89°05.7′	2896

Sat Aug 24, 2019 UTC

UTC	−Sun		−Aldebaran		−Pollux		−Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	85°31.3′	3035	5°23.6′	3210	49°23.8′	2732	51°39.7′	3008	89°36.5′	2890
1	85°01.5′	3029	4°55.0′	3333	48°51.8′	2727	51°09.7′	3008	90°07.3′	2885
2	84°31.6′	3023	–	–	48°19.8′	2722	50°39.7′	3007	90°38.2′	2879
3	84°01.7′	3017	–	–	47°47.7′	2718	50°09.7′	3007	91°09.1′	2874
4	83°31.8′	3011	–	–	47°15.6′	2713	49°39.7′	3007	91°40.1′	2868
5	83°01.8′	3005	–	–	46°43.5′	2708	49°09.6′	3007	92°11.1′	2863
6	82°31.7′	2999	–	–	46°11.3′	2703	48°39.6′	3007	92°42.1′	2858
7	82°01.7′	2993	–	–	45°39.1′	2699	48°09.6′	3007	93°13.2′	2852
8	81°31.5′	2987	–	–	45°06.9′	2694	47°39.6′	3008	93°44.3′	2847
9	81°01.4′	2981	–	–	44°34.6′	2689	47°09.5′	3009	94°15.4′	2841
10	80°31.2′	2975	–	–	44°02.3′	2684	46°39.5′	3010	94°46.6′	2836
11	80°00.9′	2968	–	–	43°30.0′	2680	46°09.5′	3011	95°17.9′	2830
12	79°30.6′	2962	–	–	42°57.6′	2675	45°39.5′	3012	95°49.1′	2825
13	79°00.3′	2956	–	–	42°25.2′	2670	45°09.6′	3014	96°20.4′	2820
14	78°29.9′	2950	–	–	41°52.8′	2665	44°39.6′	3016	96°51.8′	2814
15	77°59.5′	2944	–	–	41°20.3′	2661	44°09.6′	3018	97°23.2′	2809
16	77°29.0′	2937	–	–	40°47.8′	2656	43°39.7′	3021	97°54.6′	2804
17	76°58.5′	2931	–	–	40°15.2′	2652	43°09.7′	3024	98°26.1′	2798
18	76°28.0′	2925	5°29.5′	2996	39°42.6′	2647	42°39.8′	3027	98°57.6′	2793
19	75°57.4′	2918	5°59.6′	2921	39°10.0′	2643	42°10.0′	3030	99°29.1′	2788
20	75°26.7′	2912	6°30.2′	2862	38°37.4′	2638	41°40.1′	3034	100°00.7′	2783
21	74°56.1′	2906	7°01.3′	2814	38°04.7′	2634	41°10.3′	3039	100°32.3′	2777
22	74°25.3′	2899	7°32.7′	2775	37°32.0′	2630	40°40.4′	3043	101°03.9′	2772
23	73°54.6′	2893	8°04.3′	2742	36°59.2′	2625	40°10.7′	3048	101°35.6′	2767

Sun Aug 25, 2019 UTC

UTC	−Sun		+Aldebaran		−Pollux		−Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	73°23.7′	2886	8°36.2′	2714	36°26.4′	2621	39°40.9′	3054	102°07.4′	2762
1	72°52.9′	2880	9°08.4′	2689	35°53.6′	2617	39°11.2′	3060	102°39.1′	2757
2	72°21.9′	2874	9°40.7′	2667	35°20.8′	2613	38°41.6′	3067	103°10.9′	2752
3	71°51.0′	2867	10°13.1′	2648	34°47.9′	2609	38°12.0′	3074	103°42.8′	2747
4	71°20.0′	2861	10°45.7′	2631	34°15.0′	2605	37°42.4′	3082	104°14.6′	2742
5	70°48.9′	2854	11°18.5′	2615	33°42.1′	2601	37°12.9′	3090	104°46.6′	2737
6	70°17.8′	2848	11°51.3′	2600	33°09.1′	2598	36°43.4′	3099	105°18.5′	2732
7	69°46.7′	2841	12°24.3′	2587	32°36.1′	2594	36°14.0′	3109	105°50.5′	2727
8	69°15.5′	2835	12°57.4′	2574	32°03.1′	2591	35°44.7′	3119	106°22.5′	2722
9	68°44.3′	2828	13°30.6′	2562	31°30.1′	2587	35°15.5′	3131	106°54.6′	2717
10	68°13.0′	2822	14°03.8′	2551	30°57.0′	2584	34°46.3′	3143	107°26.7′	2712
11	67°41.6′	2815	14°37.2′	2541	30°23.9′	2581	34°17.2′	3156	107°58.8′	2707
12	67°10.3′	2809	15°10.6′	2530	29°50.8′	2579	33°48.2′	3170	108°31.0′	2703
13	66°38.8′	2802	15°44.1′	2521	29°17.6′	2576	33°19.3′	3185	109°03.2′	2698
14	66°07.4′	2795	16°17.7′	2511	28°44.5′	2574	32°50.4′	3201	109°35.4′	2694
15	65°35.8′	2789	16°51.3′	2502	28°11.3′	2572	32°21.7′	3218	110°07.7′	2689
16	65°04.3′	2782	17°25.1′	2493	27°38.1′	2570	31°53.1′	3237	110°40.0′	2685
17	64°32.7′	2776	17°58.8′	2485	27°04.9′	2568	31°24.7′	3257	111°12.3′	2680
18	64°01.0′	2769	18°32.7′	2476	26°31.7′	2567	30°56.3′	3278	111°44.7′	2676
19	63°29.3′	2763	19°06.6′	2468	25°58.5′	2566	30°28.1′	3301	112°17.1′	2672
20	62°57.5′	2756	19°40.6′	2460	25°25.3′	2566	30°00.0′	3325	112°49.5′	2667
21	62°25.7′	2750	20°14.7′	2452	24°52.0′	2565	29°32.1′	3351	113°22.0′	2663
22	61°53.9′	2743	20°48.8′	2444	24°18.8′	2566	29°04.4′	3380	113°54.5′	2659
23	61°22.0′	2737	21°23.0′	2437	23°45.6′	2567	28°36.9′	3410	114°27.0′	2655

Mon Aug 26, 2019 UTC

UTC	−Sun		+Aldebaran		−Pollux		−Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	60°50.0′	2730	21°57.2′	2429	23°12.3′	2568	28°09.5′	3442	114°59.6′	2651
1	60°18.0′	2724	22°31.5′	2422	22°39.1′	2570	27°42.3′	3477	115°32.2′	2648
2	59°46.0′	2717	23°05.9′	2414	22°05.9′	2572	27°15.4′	3514	116°04.8′	2644
3	59°13.9′	2711	23°40.3′	2407	21°32.7′	2576	26°48.7′	3554	116°37.4′	2640
4	58°41.7′	2704	24°14.7′	2400	20°59.6′	2580	26°22.2′	3597	117°10.1′	2637
5	58°09.5′	2698	24°49.3′	2393	20°26.4′	2585	25°56.0′	3643	117°42.8′	2633
6	57°37.3′	2691	25°23.9′	2386	19°53.4′	2591	25°30.1′	3693	118°15.5′	2630
7	57°05.0′	2685	25°58.5′	2379	19°20.3′	2598	25°04.4′	3747	118°48.2′	2627
8	56°32.7′	2679	26°33.2′	2372	18°47.3′	2607	24°39.1′	3804	119°21.0′	2624
9	56°00.3′	2672	27°07.9′	2365	18°14.4′	2617	24°14.1′	3867	119°53.8′	2621
10	55°27.9′	2666	27°42.8′	2358	17°41.6′	2629	23°49.5′	3934	120°26.6′	2618
11	54°55.4′	2659	28°17.6′	2351	17°08.8′	2642	23°25.2′	4006	120°59.5′	2615
12	54°22.9′	2653	28°52.5′	2345	16°36.2′	2658	23°01.4′	4084	121°32.3′	2613
13	53°50.3′	2647	29°27.5′	2338	16°03.6′	2676	22°38.0′	4169	122°05.2′	2610
14	53°17.7′	2641	30°02.5′	2331	15°31.2′	2697	22°15.0′	4261	122°38.1′	2608
15	52°45.0′	2634	30°37.6′	2325	14°59.0′	2721	21°52.5′	4360	123°11.0′	2606
16	52°12.3′	2628	31°12.7′	2318	14°26.9′	2750	21°30.5′	4468	123°43.9′	2604
17	51°39.5′	2622	31°47.9′	2312	13°55.1′	2782	21°09.1′	4586	124°16.9′	2602
18	51°06.7′	2616	32°23.1′	2306	13°23.5′	2820	20°48.2′	4713	124°49.8′	2601
19	50°33.9′	2610	32°58.4′	2299	12°52.1′	2864	20°27.9′	4853	125°22.8′	2599
20	50°01.0′	2604	33°33.8′	2293	12°21.1′	2915	20°08.3′	5005	125°55.8′	2598
21	49°28.0′	2598	34°09.1′	2287	11°50.4′	2975	19°49.3′	5171	126°28.8′	2597
22	48°55.0′	2592	34°44.6′	2280	11°20.2′	3046	19°31.1′	5354	127°01.8′	2596
23	48°22.0′	2586	35°20.1′	2274	10°50.4′	3130	19°13.6′	5555	127°34.8′	2596

Tue Aug 27, 2019 UTC

UTC	−Sun		+Aldebaran		−Pollux		+Betelgeuse		+Rigel	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	47°48.9′	2580	35°55.6′	2268	10°21.2′	3229	22°51.4′	3375	41°09.2′	3854
1	47°15.8′	2574	36°31.2′	2262	9°52.7′	3348	23°19.0′	3316	41°33.9′	3810
2	46°42.6′	2568	37°06.9′	2256	–	–	23°47.0′	3261	41°58.9′	3768
3	46°09.4′	2562	37°42.5′	2250	–	–	24°15.3′	3209	42°24.1′	3727
4	45°36.1′	2556	38°18.3′	2244	–	–	24°43.9′	3160	42°49.5′	3688
5	45°02.8′	2551	38°54.1′	2238	–	–	25°12.9′	3114	43°15.2′	3650
6	44°29.5′	2545	39°29.9′	2232	–	–	25°42.2′	3070	43°41.1′	3613
7	43°56.1′	2540	40°05.8′	2226	–	–	26°11.8′	3029	44°07.2′	3577
8	43°22.7′	2534	40°41.7′	2220	–	–	26°41.7′	2990	44°33.5′	3542
9	42°49.2′	2529	41°17.7′	2215	–	–	27°11.8′	2953	45°00.1′	3509
10	42°15.7′	2523	41°53.8′	2209	–	–	27°42.2′	2918	45°26.8′	3476
11	41°42.1′	2518	42°29.8′	2203	–	–	28°12.9′	2885	45°53.8′	3445
12	41°08.5′	2513	43°06.0′	2198	–	–	28°43.7′	2854	46°20.9′	3414
13	40°34.9′	2507	43°42.1′	2192	–	–	29°14.8′	2824	46°48.2′	3384
14	40°01.2′	2502	44°18.4′	2187	–	–	29°46.2′	2795	47°15.8′	3355
15	39°27.5′	2497	44°54.6′	2181	–	–	30°17.7′	2768	47°43.5′	3328
16	38°53.7′	2492	45°30.9′	2176	–	–	30°49.4′	2742	48°11.4′	3300
17	38°19.9′	2487	46°07.3′	2170	–	–	31°21.3′	2717	48°39.4′	3274
18	37°46.1′	2483	46°43.7′	2165	–	–	31°53.4′	2693	49°07.6′	3248
19	37°12.2′	2478	47°20.1′	2160	–	–	32°25.7′	2670	49°36.0′	3224
20	36°38.3′	2473	47°56.6′	2155	–	–	32°58.1′	2649	50°04.6′	3199
21	36°04.3′	2469	48°33.2′	2149	–	–	33°30.7′	2628	50°33.3′	3176
22	35°30.3′	2464	49°09.7′	2144	–	–	34°03.5′	2608	51°02.2′	3153
23	34°56.3′	2460	49°46.4′	2139	–	–	34°36.4′	2588	51°31.2′	3131

Wed Aug 28, 2019 UTC

UTC	+Aldebaran		+Betelgeuse		+Capella		+Rigel	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	50°23.0'	2134	35°09.5'	2570	42°43.6'	3173	52°00.4'	3110
1	50°59.7'	2129	35°42.7'	2552	43°12.5'	3145	52°29.7'	3089
2	51°36.5'	2124	36°16.0'	2535	43°41.6'	3117	52°59.2'	3068
3	52°13.3'	2120	36°49.5'	2518	44°10.8'	3090	53°28.8'	3049
4	52°50.1'	2115	37°23.1'	2503	44°40.3'	3065	53°58.5'	3029
5	53°27.0'	2110	37°56.8'	2487	45°09.9'	3040	54°28.4'	3011
6	54°03.9'	2106	38°30.6'	2473	45°39.7'	3015	54°58.4'	2992
7	54°40.8'	2101	39°04.6'	2458	46°09.7'	2992	55°28.5'	2975
8	55°17.8'	2097	39°38.7'	2445	46°39.8'	2969	55°58.8'	2958
9	55°54.8'	2092	40°12.8'	2431	47°10.1'	2947	56°29.1'	2941
10	56°31.9'	2088	40°47.1'	2418	47°40.5'	2926	56°59.6'	2925
11	57°09.0'	2083	41°21.5'	2406	48°11.1'	2906	57°30.2'	2909
12	57°46.1'	2079	41°56.0'	2394	48°41.8'	2886	58°00.9'	2893
13	58°23.3'	2075	42°30.6'	2383	49°12.7'	2867	58°31.7'	2879
14	59°00.5'	2071	43°05.2'	2371	49°43.7'	2848	59°02.7'	2864
15	59°37.8'	2067	43°40.0'	2361	50°14.9'	2830	59°33.7'	2850
16	60°15.0'	2063	44°14.8'	2350	50°46.1'	2812	60°04.8'	2836
17	60°52.4'	2059	44°49.7'	2340	51°17.5'	2795	60°36.1'	2823
18	61°29.7'	2055	45°24.7'	2330	51°49.0'	2779	61°07.4'	2810
19	62°07.1'	2051	45°59.8'	2321	52°20.7'	2763	61°38.8'	2797
20	62°44.5'	2048	46°35.0'	2311	52°52.4'	2748	62°10.3'	2785
21	63°21.9'	2044	47°10.2'	2302	53°24.3'	2733	62°41.9'	2773
22	63°59.4'	2041	47°45.5'	2294	53°56.3'	2718	63°13.6'	2762
23	64°36.9'	2037	48°20.9'	2285	54°28.4'	2704	63°45.4'	2750

Thu Aug 29, 2019 UTC

UTC	+Pollux		+Aldebaran		+Betelgeuse		+Capella	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	21°45.9'	2207	65°14.5'	2034	48°56.4'	2277	55°00.6'	2691
1	22°22.0'	2195	65°52.0'	2030	49°31.9'	2269	55°32.9'	2677
2	22°58.2'	2183	66°29.6'	2027	50°07.5'	2262	56°05.3'	2665
3	23°34.5'	2172	67°07.2'	2024	50°43.1'	2255	56°37.7'	2652
4	24°10.9'	2162	67°44.9'	2021	51°18.8'	2247	57°10.3'	2640
5	24°47.3'	2152	68°22.6'	2018	51°54.6'	2241	57°43.0'	2629
6	25°23.9'	2143	69°00.3'	2015	52°30.4'	2234	58°15.7'	2617
7	26°00.5'	2134	69°38.0'	2012	53°06.3'	2227	58°48.6'	2607
8	26°37.2'	2126	70°15.7'	2010	53°42.2'	2221	59°21.5'	2596
9	27°14.0'	2118	70°53.5'	2007	54°18.2'	2215	59°54.5'	2586
10	27°50.8'	2111	71°31.3'	2004	54°54.2'	2209	60°27.6'	2576
11	28°27.7'	2104	72°09.1'	2002	55°30.3'	2204	61°00.7'	2567
12	29°04.7'	2098	72°47.0'	1999	56°06.4'	2198	61°34.0'	2557
13	29°41.7'	2091	73°24.8'	1997	56°42.6'	2193	62°07.3'	2549
14	30°18.8'	2086	74°02.7'	1995	57°18.8'	2188	62°40.6'	2540
15	30°55.9'	2080	74°40.6'	1993	57°55.0'	2183	63°14.1'	2532
16	31°33.1'	2075	75°18.5'	1990	58°31.3'	2179	63°47.6'	2524
17	32°10.3'	2070	75°56.5'	1988	59°07.7'	2174	64°21.1'	2516
18	32°47.5'	2065	76°34.4'	1987	59°44.0'	2170	64°54.7'	2509
19	33°24.8'	2060	77°12.4'	1985	60°20.4'	2166	65°28.4'	2502
20	34°02.2'	2056	77°50.4'	1983	60°56.9'	2162	66°02.1'	2495
21	34°39.5'	2052	78°28.4'	1981	61°33.3'	2158	66°35.9'	2488
22	35°16.9'	2048	79°06.4'	1980	62°09.9'	2154	67°09.7'	2482
23	35°54.4'	2044	79°44.5'	1978	62°46.4'	2151	67°43.6'	2476