

Wed Nov 1, 2017 UTC

UTC	−Aldebaran		+Saturn		−Betelgeuse		+Antares		+Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	73°38.4′	2493	91°38.8′	2529	91°52.8′	2589	105°53.5′	2555	61°00.1′	3201
1	73°04.6′	2487	92°12.4′	2523	91°19.7′	2583	106°26.8′	2549	61°28.8′	3188
2	72°30.7′	2481	92°45.9′	2517	90°46.6′	2577	107°00.1′	2544	61°57.6′	3175
3	71°56.8′	2475	93°19.5′	2511	90°13.5′	2571	107°33.5′	2538	62°26.5′	3161
4	71°22.9′	2469	93°53.2′	2505	89°40.3′	2565	108°07.0′	2533	62°55.5′	3149
5	70°48.9′	2463	94°26.9′	2499	89°07.1′	2559	108°40.5′	2527	63°24.6′	3136
6	70°14.9′	2457	95°00.6′	2493	88°33.8′	2553	109°14.0′	2522	63°53.7′	3124
7	69°40.8′	2451	95°34.4′	2488	88°00.5′	2548	109°47.6′	2516	64°22.9′	3111
8	69°06.7′	2445	96°08.2′	2482	87°27.1′	2542	110°21.2′	2511	64°52.2′	3099
9	68°32.5′	2439	96°42.1′	2476	86°53.7′	2536	110°54.8′	2506	65°21.6′	3087
10	67°58.3′	2434	97°16.1′	2470	86°20.2′	2530	111°28.5′	2500	65°51.1′	3076
11	67°24.0′	2428	97°50.0′	2464	85°46.7′	2525	112°02.3′	2495	66°20.7′	3064
12	66°49.7′	2422	98°24.0′	2458	85°13.1′	2519	112°36.0′	2490	66°50.3′	3053
13	66°15.4′	2416	98°58.1′	2452	84°39.5′	2513	113°09.9′	2484	67°20.0′	3042
14	65°41.0′	2410	99°32.2′	2447	84°05.9′	2508	113°43.7′	2479	67°49.8′	3031
15	65°06.5′	2404	100°06.4′	2441	83°32.2′	2502	114°17.6′	2474	68°19.6′	3021
16	64°32.0′	2399	100°40.6′	2435	82°58.5′	2497	114°51.6′	2469	68°49.6′	3010
17	63°57.5′	2393	101°14.8′	2429	82°24.7′	2491	115°25.6′	2464	69°19.6′	3000
18	63°22.9′	2387	101°49.1′	2424	81°50.9′	2486	115°59.6′	2459	69°49.6′	2990
19	62°48.3′	2382	102°23.5′	2418	81°17.1′	2480	116°33.6′	2454	70°19.8′	2980
20	62°13.6′	2376	102°57.9′	2412	80°43.2′	2475	117°07.7′	2449	70°50.0′	2970
21	61°38.9′	2370	103°32.3′	2407	80°09.3′	2470	117°41.9′	2444	71°20.3′	2960
22	61°04.1′	2365	104°06.8′	2401	79°35.3′	2465	118°16.1′	2439	71°50.6′	2951
23	60°29.3′	2359	104°41.3′	2395	79°01.3′	2459	118°50.3′	2435	72°21.0′	2941

Thu Nov 2, 2017 UTC

UTC	−Aldebaran		−Betelgeuse		+Formalhaut		+Saturn		−Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	59°54.5′	2354	78°27.2′	2454	38°52.8′	3101	105°15.8′	2390	103°51.4′	2410
1	59°19.6′	2348	77°53.1′	2449	39°22.2′	3077	105°50.4′	2384	103°16.9′	2404
2	58°44.6′	2343	77°19.0′	2444	39°51.8′	3054	106°25.1′	2379	102°42.4′	2398
3	58°09.7′	2337	76°44.8′	2439	40°21.5′	3031	106°59.8′	2373	102°07.9′	2393
4	57°34.6′	2332	76°10.6′	2434	40°51.3′	3010	107°34.5′	2368	101°33.3′	2387
5	56°59.5′	2326	75°36.3′	2429	41°21.3′	2989	108°09.3′	2363	100°58.7′	2381
6	56°24.4′	2321	75°02.0′	2425	41°51.5′	2968	108°44.1′	2357	100°24.0′	2376
7	55°49.3′	2316	74°27.7′	2420	42°21.8′	2948	109°19.0′	2352	99°49.3′	2370
8	55°14.1′	2310	73°53.3′	2415	42°52.2′	2929	109°53.9′	2347	99°14.5′	2365
9	54°38.8′	2305	73°18.9′	2411	43°22.8′	2911	110°28.9′	2342	98°39.7′	2359
10	54°03.5′	2300	72°44.5′	2406	43°53.5′	2892	111°03.9′	2336	98°04.8′	2354
11	53°28.2′	2295	72°10.0′	2402	44°24.3′	2875	111°38.9′	2331	97°29.9′	2349
12	52°52.8′	2290	71°35.5′	2397	44°55.2′	2858	112°14.0′	2326	96°55.0′	2343
13	52°17.4′	2285	71°00.9′	2393	45°26.3′	2841	112°49.1′	2321	96°20.0′	2338
14	51°42.0′	2279	70°26.4′	2389	45°57.5′	2825	113°24.3′	2316	95°45.0′	2333
15	51°06.5′	2274	69°51.7′	2385	46°28.8′	2809	113°59.5′	2311	95°09.9′	2328
16	50°30.9′	2270	69°17.1′	2381	47°00.2′	2794	114°34.7′	2306	94°34.8′	2323
17	49°55.3′	2265	68°42.4′	2377	47°31.8′	2779	115°10.0′	2301	93°59.7′	2318
18	49°19.7′	2260	68°07.7′	2373	48°03.4′	2765	115°45.3′	2296	93°24.5′	2313
19	48°44.1′	2255	67°33.0′	2369	48°35.1′	2751	116°20.7′	2292	92°49.3′	2308
20	48°08.4′	2250	66°58.2′	2365	49°07.0′	2737	116°56.1′	2287	92°14.0′	2303
21	47°32.6′	2245	66°23.4′	2361	49°38.9′	2724	117°31.5′	2282	91°38.7′	2298
22	46°56.8′	2241	65°48.5′	2358	50°11.0′	2711	118°07.0′	2278	91°03.3′	2293
23	46°21.0′	2236	65°13.7′	2354	50°43.1′	2698	118°42.5′	2273	90°28.0′	2289

Fri Nov 3, 2017 UTC

UTC	−Aldebaran		−Betelgeuse		+Formalhaut		−Pollux		−Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	45°45.2′	2231	64°38.8′	2351	51°15.4′	2686	89°52.5′	2284	90°36.0′	2359
1	45°09.3′	2227	64°03.9′	2348	51°47.7′	2674	89°17.1′	2280	90°01.2′	2355
2	44°33.4′	2222	63°28.9′	2344	52°20.1′	2662	88°41.6′	2275	89°26.3′	2350
3	43°57.4′	2218	62°53.9′	2341	52°52.6′	2651	88°06.1′	2271	88°51.3′	2346
4	43°21.4′	2214	62°19.0′	2338	53°25.2′	2640	87°30.5′	2266	88°16.4′	2342
5	42°45.3′	2209	61°43.9′	2335	53°57.9′	2629	86°54.9′	2262	87°41.4′	2338
6	42°09.3′	2205	61°08.9′	2332	54°30.6′	2618	86°19.2′	2258	87°06.4′	2333
7	41°33.2′	2201	60°33.8′	2330	55°03.5′	2608	85°43.6′	2254	86°31.3′	2329
8	40°57.0′	2197	59°58.7′	2327	55°36.4′	2598	85°07.8′	2250	85°56.2′	2325
9	40°20.8′	2193	59°23.6′	2325	56°09.4′	2588	84°32.1′	2246	85°21.1′	2321
10	39°44.6′	2189	58°48.5′	2322	56°42.4′	2578	83°56.3′	2242	84°45.9′	2318
11	39°08.4′	2185	58°13.3′	2320	57°15.6′	2569	83°20.5′	2238	84°10.7′	2314
12	38°32.1′	2181	57°38.2′	2318	57°48.8′	2560	82°44.7′	2234	83°35.5′	2310
13	37°55.8′	2177	57°03.0′	2316	58°22.1′	2551	82°08.8′	2230	83°00.3′	2307
14	37°19.4′	2173	56°27.8′	2314	58°55.4′	2543	81°32.9′	2226	82°25.0′	2303
15	36°43.0′	2169	55°52.6′	2313	59°28.8′	2534	80°57.0′	2223	81°49.7′	2300
16	36°06.6′	2166	55°17.3′	2311	60°02.3′	2526	80°21.0′	2219	81°14.4′	2297
17	35°30.2′	2162	54°42.1′	2310	60°35.8′	2518	79°45.0′	2216	80°39.0′	2294
18	34°53.7′	2158	54°06.9′	2308	61°09.4′	2510	79°09.0′	2213	80°03.6′	2291
19	34°17.2′	2155	53°31.6′	2307	61°43.1′	2503	78°32.9′	2209	79°28.2′	2288
20	33°40.7′	2152	52°56.3′	2306	62°16.8′	2495	77°56.9′	2206	78°52.8′	2285
21	33°04.1′	2148	52°21.0′	2305	62°50.6′	2488	77°20.8′	2203	78°17.3′	2282
22	32°27.5′	2145	51°45.8′	2305	63°24.4′	2481	76°44.6′	2200	77°41.9′	2279
23	31°50.9′	2142	51°10.5′	2304	63°58.3′	2474	76°08.5′	2197	77°06.4′	2277

Sat Nov 4, 2017 UTC

UTC	−Aldebaran		−Betelgeuse		−Pollux		−Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	31°14.3′	2139	50°35.2′	2304	75°32.3′	2194	76°30.8′	2274	64°32.2′	2468
1	30°37.6′	2135	49°59.9′	2304	74°56.1′	2191	75°55.3′	2272	65°06.2′	2461
2	30°00.9′	2132	49°24.6′	2304	74°19.9′	2188	75°19.7′	2269	65°40.3′	2455
3	29°24.2′	2130	48°49.3′	2304	73°43.6′	2186	74°44.2′	2267	66°14.4′	2449
4	28°47.5′	2127	48°14.0′	2305	73°07.3′	2183	74°08.6′	2265	66°48.5′	2443
5	28°10.7′	2124	47°38.7′	2306	72°31.1′	2181	73°32.9′	2263	67°22.7′	2438
6	27°33.9′	2121	47°03.4′	2307	71°54.7′	2178	72°57.3′	2261	67°56.9′	2432
7	26°57.1′	2118	46°28.1′	2308	71°18.4′	2176	72°21.7′	2260	68°31.2′	2427
8	26°20.2′	2116	45°52.9′	2309	70°42.1′	2174	71°46.0′	2258	69°05.5′	2421
9	25°43.4′	2113	45°17.6′	2311	70°05.7′	2172	71°10.3′	2257	69°39.9′	2416
10	25°06.5′	2111	44°42.4′	2313	69°29.3′	2170	70°34.6′	2255	70°14.3′	2411
11	24°29.6′	2109	44°07.1′	2315	68°52.9′	2168	69°58.9′	2254	70°48.7′	2407
12	23°52.7′	2106	43°31.9′	2317	68°16.5′	2166	69°23.2′	2253	71°23.2′	2402
13	23°15.7′	2104	42°56.7′	2320	67°40.0′	2164	68°47.5′	2252	71°57.7′	2398
14	22°38.8′	2102	42°21.6′	2323	67°03.6′	2162	68°11.8′	2251	72°32.2′	2393
15	22°01.8′	2100	41°46.4′	2326	66°27.1′	2161	67°36.1′	2250	73°06.8′	2389
16	21°24.8′	2098	41°11.3′	2330	65°50.6′	2159	67°00.3′	2249	73°41.4′	2385
17	20°47.8′	2096	40°36.2′	2334	65°14.1′	2158	66°24.6′	2249	74°16.1′	2382
18	20°10.8′	2094	40°01.1′	2338	64°37.6′	2157	65°48.8′	2248	74°50.7′	2378
19	19°33.7′	2093	39°26.1′	2343	64°01.1′	2155	65°13.1′	2248	75°25.4′	2374
20	18°56.7′	2091	38°51.1′	2348	63°24.6′	2154	64°37.3′	2248	76°00.2′	2371
21	18°19.6′	2090	38°16.2′	2353	62°48.0′	2153	64°01.5′	2248	76°34.9′	2368
22	17°42.5′	2088	37°41.3′	2359	62°11.5′	2152	63°25.8′	2248	77°09.7′	2365
23	17°05.4′	2087	37°06.4′	2366	61°35.0′	2152	62°50.0′	2248	77°44.5′	2362

Sun Nov 5, 2017 UTC

UTC	−Aldebaran		−Betelgeuse		−Pollux		−Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	16°28.3′	2086	36°31.6′	2373	60°58.4′	2151	62°14.3′	2249	78°19.3′	2359
1	15°51.2′	2085	35°56.9′	2380	60°21.8′	2150	61°38.5′	2249	78°54.2′	2357
2	15°14.1′	2084	35°22.2′	2388	59°45.3′	2150	61°02.8′	2250	79°29.1′	2354
3	14°36.9′	2083	34°47.6′	2396	59°08.7′	2150	60°27.0′	2251	80°04.0′	2352
4	13°59.8′	2082	34°13.0′	2406	58°32.1′	2149	59°51.3′	2252	80°38.9′	2349
5	13°22.6′	2082	33°38.5′	2415	57°55.5′	2149	59°15.6′	2253	81°13.8′	2347
6	12°45.5′	2082	33°04.1′	2426	57°19.0′	2149	58°39.9′	2254	81°48.7′	2345
7	12°08.3′	2081	32°29.8′	2437	56°42.4′	2149	58°04.1′	2255	82°23.7′	2344
8	11°31.2′	2082	31°55.6′	2449	56°05.8′	2149	57°28.5′	2257	82°58.7′	2342
9	10°54.0′	2082	31°21.4′	2462	55°29.2′	2150	56°52.8′	2259	83°33.7′	2340
10	10°16.9′	2082	30°47.4′	2476	54°52.6′	2150	56°17.1′	2261	84°08.7′	2339
11	9°39.7′	2083	30°13.5′	2490	54°16.1′	2151	55°41.5′	2263	84°43.7′	2338
12	9°02.6′	2085	29°39.7′	2506	53°39.5′	2151	55°05.8′	2265	85°18.7′	2337
13	8°25.5′	2087	29°06.0′	2523	53°02.9′	2152	54°30.2′	2268	85°53.8′	2336
14	7°48.4′	2090	28°32.4′	2541	52°26.4′	2153	53°54.6′	2271	86°28.8′	2335
15	7°11.3′	2093	27°59.0′	2560	51°49.8′	2154	53°19.0′	2274	87°03.8′	2334
16	6°34.2′	2099	27°25.7′	2581	51°13.3′	2155	52°43.5′	2277	87°38.9′	2333
17	5°57.2′	2106	26°52.6′	2604	50°36.8′	2156	52°08.0′	2280	88°14.0′	2333
18	5°20.3′	2116	26°19.6′	2627	50°00.3′	2158	51°32.5′	2283	88°49.0′	2333
19	4°43.4′	2131	25°46.9′	2653	49°23.8′	2160	50°57.0′	2287	89°24.1′	2332
20	4°06.7′	2153	25°14.3′	2681	48°47.3′	2161	50°21.6′	2291	89°59.2′	2332
21	3°30.1′	2191	24°41.9′	2711	48°10.8′	2163	49°46.2′	2295	90°34.2′	2332
22	2°53.9′	2259	24°09.8′	2743	47°34.3′	2165	49°10.8′	2300	91°09.3′	2333
23	–	–	23°37.9′	2778	46°57.9′	2167	48°35.5′	2304	91°44.4′	2333

Mon Nov 6, 2017 UTC

UTC	−Pollux		−Procyon		−Regulus		−Betelgeuse		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	46°21.4′	2170	48°00.2′	2309	81°41.1′	2067	23°06.2′	2815	92°19.4′	2333
1	45°45.0′	2172	47°24.9′	2315	81°03.8′	2067	22°34.9′	2856	92°54.5′	2334
2	45°08.7′	2175	46°49.7′	2320	80°26.5′	2067	22°03.8′	2900	93°29.5′	2335
3	44°32.3′	2178	46°14.6′	2326	79°49.2′	2068	21°33.0′	2948	94°04.6′	2335
4	43°55.9′	2181	45°39.4′	2332	79°12.0′	2068	21°02.6′	3000	94°39.6′	2336
5	43°19.6′	2184	45°04.4′	2338	78°34.7′	2069	20°32.5′	3056	95°14.7′	2337
6	42°43.3′	2187	44°29.3′	2345	77°57.4′	2070	20°02.8′	3118	95°49.7′	2339
7	42°07.1′	2191	43°54.4′	2352	77°20.2′	2070	19°33.5′	3185	96°24.7′	2340
8	41°30.8′	2194	43°19.5′	2359	76°42.9′	2071	19°04.7′	3259	96°59.7′	2342
9	40°54.6′	2198	42°44.6′	2367	76°05.7′	2072	18°36.4′	3340	97°34.7′	2343
10	40°18.5′	2203	42°09.8′	2375	75°28.5′	2073	18°08.6′	3429	98°09.7′	2345
11	39°42.3′	2207	41°35.1′	2384	74°51.2′	2074	17°41.4′	3527	98°44.7′	2347
12	39°06.3′	2212	41°00.4′	2392	74°14.0′	2075	17°14.7′	3635	99°19.6′	2349
13	38°30.2′	2216	40°25.9′	2402	73°36.8′	2076	16°48.7′	3755	99°54.6′	2351
14	37°54.2′	2222	39°51.3′	2412	72°59.6′	2077	16°23.5′	3888	100°29.5′	2353
15	37°18.2′	2227	39°16.9′	2422	72°22.4′	2078	–	–	101°04.4′	2356
16	36°42.3′	2233	38°42.6′	2433	71°45.2′	2080	–	–	101°39.3′	2358
17	36°06.4′	2239	38°08.3′	2444	71°08.1′	2081	–	–	102°14.1′	2361
18	35°30.6′	2245	37°34.1′	2456	70°30.9′	2082	–	–	102°49.0′	2364
19	34°54.8′	2251	37°00.0′	2468	69°53.8′	2084	–	–	103°23.8′	2366
20	34°19.0′	2258	36°26.0′	2481	69°16.6′	2086	–	–	103°58.6′	2370
21	33°43.4′	2266	35°52.1′	2495	68°39.5′	2087	–	–	104°33.3′	2373
22	33°07.8′	2273	35°18.4′	2509	68°02.4′	2089	–	–	105°08.1′	2376
23	32°32.2′	2281	34°44.7′	2524	67°25.3′	2091	–	–	105°42.8′	2380

Tue Nov 7, 2017 UTC

UTC	+Aldebaran		-Pollux		-Regulus		-Procyon		-Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	13°20.7'	2099	31°56.7'	2290	66°48.2'	2092	34°11.1'	2540	106°16.7'	2286
1	13°57.8'	2100	31°21.3'	2299	66°11.2'	2094	33°37.7'	2556	105°41.3'	2288
2	14°34.7'	2102	30°46.0'	2308	65°34.1'	2096	33°04.4'	2574	105°05.8'	2290
3	15°11.7'	2103	30°10.7'	2318	64°57.1'	2098	32°31.2'	2592	104°30.4'	2292
4	15°48.7'	2105	29°35.5'	2329	64°20.1'	2100	31°58.2'	2612	103°55.0'	2294
5	16°25.6'	2107	29°00.4'	2340	63°43.1'	2102	31°25.3'	2632	103°19.6'	2296
6	17°02.6'	2108	28°25.4'	2352	63°06.1'	2104	30°52.6'	2654	102°44.3'	2298
7	17°39.5'	2110	27°50.5'	2364	62°29.2'	2107	30°20.0'	2677	102°08.9'	2301
8	18°16.4'	2112	27°15.7'	2377	61°52.2'	2109	29°47.6'	2701	101°33.6'	2303
9	18°53.3'	2114	26°41.0'	2391	61°15.3'	2111	29°15.4'	2727	100°58.3'	2305
10	19°30.2'	2117	26°06.4'	2406	60°38.4'	2113	28°43.4'	2754	100°23.0'	2308
11	20°07.0'	2119	25°31.9'	2422	60°01.5'	2116	28°11.6'	2782	99°47.8'	2310
12	20°43.9'	2121	24°57.6'	2439	59°24.7'	2118	27°39.9'	2813	99°12.5'	2313
13	21°20.7'	2123	24°23.4'	2457	58°47.8'	2121	27°08.5'	2845	98°37.3'	2316
14	21°57.5'	2126	23°49.3'	2476	58°11.0'	2123	26°37.4'	2879	98°02.1'	2318
15	22°34.3'	2128	23°15.4'	2497	57°34.2'	2126	26°06.5'	2916	97°26.9'	2321
16	23°11.0'	2131	22°41.6'	2519	56°57.4'	2129	25°35.8'	2955	96°51.7'	2324
17	23°47.8'	2133	22°08.0'	2543	56°20.7'	2131	25°05.4'	2997	96°16.6'	2327
18	24°24.5'	2136	21°34.6'	2569	55°43.9'	2134	24°35.3'	3041	95°41.5'	2329
19	25°01.2'	2139	21°01.4'	2596	55°07.2'	2137	24°05.5'	3089	95°06.4'	2332
20	25°37.8'	2142	20°28.4'	2626	54°30.6'	2140	23°36.1'	3139	94°31.3'	2335
21	26°14.5'	2144	19°55.6'	2659	53°53.9'	2143	23°07.0'	3194	93°56.3'	2338
22	26°51.1'	2147	19°23.1'	2694	53°17.3'	2146	22°38.2'	3253	93°21.3'	2341
23	27°27.7'	2150	18°50.8'	2732	52°40.7'	2149	22°09.8'	3316	92°46.3'	2345

Wed Nov 8, 2017 UTC

UTC	+Aldebaran		-Regulus		-Pollux		-Mars		-Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	28°04.3'	2153	52°04.1'	2152	18°18.8'	2774	92°11.3'	2348	105°48.0'	2182
1	28°40.8'	2156	51°27.5'	2155	17°47.2'	2820	91°36.3'	2351	105°11.7'	2185
2	29°17.3'	2159	50°51.0'	2158	17°15.8'	2871	91°01.4'	2354	104°35.4'	2188
3	29°53.8'	2162	50°14.5'	2161	16°44.8'	2926	90°26.5'	2357	103°59.2'	2191
4	30°30.3'	2165	49°38.0'	2164	16°14.3'	2987	89°51.7'	2361	103°22.9'	2194
5	31°06.7'	2168	49°01.5'	2167	15°44.1'	3055	89°16.8'	2364	102°46.7'	2197
6	31°43.2'	2172	48°25.1'	2171	15°14.4'	3131	88°42.0'	2368	102°10.6'	2200
7	32°19.5'	2175	47°48.7'	2174	14°45.2'	3215	88°07.2'	2371	101°34.4'	2203
8	32°55.9'	2178	47°12.3'	2177	14°16.6'	3310	87°32.5'	2375	100°58.3'	2207
9	33°32.2'	2182	46°36.0'	2181	13°48.6'	3416	86°57.7'	2378	100°22.2'	2210
10	34°08.5'	2185	45°59.7'	2184	13°21.3'	3537	86°23.0'	2382	99°46.1'	2213
11	34°44.8'	2188	45°23.4'	2187	-	-	85°48.4'	2385	99°10.1'	2217
12	35°21.1'	2192	44°47.1'	2191	-	-	85°13.7'	2389	98°34.1'	2220
13	35°57.3'	2195	44°10.9'	2194	-	-	84°39.1'	2393	97°58.1'	2223
14	36°33.5'	2199	43°34.7'	2198	-	-	84°04.5'	2396	97°22.1'	2227
15	37°09.7'	2202	42°58.5'	2202	-	-	83°30.0'	2400	96°46.2'	2230
16	37°45.8'	2206	42°22.4'	2205	-	-	82°55.4'	2404	96°10.3'	2234
17	38°21.9'	2209	41°46.3'	2209	-	-	82°21.0'	2408	95°34.4'	2237
18	38°58.0'	2213	41°10.2'	2212	-	-	81°46.5'	2412	94°58.6'	2241
19	39°34.0'	2217	40°34.2'	2216	-	-	81°12.1'	2415	94°22.8'	2245
20	40°10.0'	2220	39°58.1'	2220	-	-	80°37.6'	2419	93°47.0'	2248
21	40°46.0'	2224	39°22.1'	2224	-	-	80°03.3'	2423	93°11.2'	2252
22	41°22.0'	2228	38°46.2'	2227	-	-	79°28.9'	2427	92°35.5'	2256
23	41°57.9'	2232	38°10.3'	2231	-	-	78°54.6'	2431	91°59.8'	2260

Thu Nov 9, 2017 UTC

UTC	-Sun		-Regulus		+Aldebaran		+Betelgeuse		-Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	114°09.4'	2571	37°34.4'	2235	42°33.8'	2235	26°58.3'	2746	91°24.1'	2263
1	113°36.2'	2575	36°58.5'	2239	43°09.6'	2239	27°30.2'	2730	90°48.5'	2267
2	113°03.0'	2579	36°22.7'	2243	43°45.5'	2243	28°02.2'	2714	90°12.9'	2271
3	112°29.9'	2583	35°46.9'	2247	44°21.3'	2247	28°34.3'	2701	89°37.3'	2275
4	111°56.8'	2587	35°11.1'	2250	44°57.0'	2251	29°06.5'	2688	89°01.8'	2279
5	111°23.7'	2591	34°35.4'	2254	45°32.8'	2255	29°38.8'	2676	88°26.3'	2283
6	110°50.7'	2595	33°59.7'	2258	46°08.5'	2259	30°11.2'	2665	87°50.8'	2287
7	110°17.7'	2599	33°24.0'	2262	46°44.1'	2263	30°43.7'	2655	87°15.4'	2291
8	109°44.7'	2603	32°48.4'	2266	47°19.8'	2266	31°16.2'	2646	86°40.0'	2295
9	109°11.8'	2608	32°12.7'	2270	47°55.4'	2270	31°48.9'	2637	86°04.6'	2299
10	108°38.8'	2612	31°37.2'	2274	48°31.0'	2274	32°21.6'	2629	85°29.3'	2303
11	108°06.0'	2616	31°01.6'	2278	49°06.5'	2278	32°54.3'	2622	84°54.0'	2307
12	107°33.1'	2620	30°26.1'	2282	49°42.0'	2283	33°27.1'	2616	84°18.7'	2311
13	107°00.3'	2625	29°50.6'	2286	50°17.5'	2287	33°60.0'	2610	83°43.5'	2315
14	106°27.5'	2629	29°15.2'	2291	50°52.9'	2291	34°32.9'	2604	83°08.2'	2319
15	105°54.8'	2633	28°39.8'	2295	51°28.3'	2295	35°05.8'	2599	82°33.1'	2323
16	105°22.0'	2638	28°04.4'	2299	52°03.7'	2299	35°38.8'	2595	81°57.9'	2328
17	104°49.3'	2642	27°29.1'	2303	52°39.0'	2303	36°11.8'	2591	81°22.8'	2332
18	104°16.7'	2646	26°53.8'	2307	53°14.3'	2307	36°44.8'	2587	80°47.7'	2336
19	103°44.1'	2651	26°18.5'	2311	53°49.6'	2311	37°17.9'	2583	80°12.7'	2340
20	103°11.5'	2655	25°43.3'	2315	54°24.9'	2315	37°51.0'	2581	79°37.7'	2344
21	102°38.9'	2659	25°08.1'	2320	55°00.1'	2319	38°24.1'	2578	79°02.7'	2349
22	102°06.4'	2664	24°32.9'	2324	55°35.2'	2323	38°57.3'	2576	78°27.8'	2353
23	101°33.9'	2668	23°57.8'	2328	56°10.4'	2328	39°30.4'	2574	77°52.9'	2357

Fri Nov 10, 2017 UTC

UTC	-Sun		-Regulus		+Aldebaran		+Betelgeuse		+Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	101°01.4'	2673	23°22.6'	2332	56°45.5'	2332	40°03.6'	2572	15°23.9'	3199
1	100°29.0'	2677	22°47.6'	2336	57°20.6'	2336	40°36.8'	2570	15°52.7'	3143
2	99°56.6'	2682	22°12.5'	2341	57°55.6'	2340	41°10.0'	2569	16°21.8'	3092
3	99°24.3'	2686	21°37.5'	2345	58°30.6'	2344	41°43.2'	2568	16°51.2'	3048
4	98°51.9'	2691	21°02.6'	2349	59°05.6'	2349	42°16.4'	2567	17°21.0'	3007
5	98°19.6'	2695	20°27.6'	2353	59°40.5'	2353	42°49.6'	2567	17°51.0'	2971
6	97°47.4'	2700	19°52.7'	2358	60°15.4'	2357	43°22.9'	2566	18°21.2'	2938
7	97°15.2'	2704	19°17.9'	2362	60°50.3'	2361	43°56.1'	2566	18°51.8'	2909
8	96°43.0'	2709	18°43.0'	2366	61°25.1'	2365	44°29.3'	2566	19°22.5'	2882
9	96°10.8'	2713	18°08.2'	2370	61°59.9'	2370	45°02.6'	2566	19°53.4'	2858
10	95°38.7'	2718	17°33.5'	2375	62°34.7'	2374	45°35.8'	2567	20°24.4'	2837
11	95°06.6'	2722	16°58.8'	2379	63°09.4'	2378	46°09.0'	2567	20°55.6'	2817
12	94°34.5'	2727	16°24.1'	2383	63°44.1'	2382	46°42.2'	2568	21°27.0'	2799
13	94°02.5'	2731	15°49.4'	2388	64°18.8'	2386	47°15.4'	2569	21°58.5'	2783
14	93°30.5'	2736	15°14.8'	2392	64°53.4'	2391	47°48.7'	2570	22°30.1'	2768
15	92°58.6'	2740	14°40.2'	2396	65°28.0'	2395	48°21.9'	2571	23°01.8'	2755
16	92°26.6'	2745	14°05.6'	2401	66°02.6'	2399	48°55.1'	2572	23°33.7'	2743
17	91°54.7'	2749	13°31.1'	2405	66°37.1'	2403	49°28.2'	2573	24°05.6'	2732
18	91°22.9'	2754	12°56.6'	2410	67°11.6'	2407	50°01.4'	2574	24°37.5'	2722
19	90°51.1'	2758	12°22.2'	2414	67°46.1'	2412	50°34.6'	2576	25°09.6'	2713
20	90°19.3'	2763	11°47.8'	2419	68°20.5'	2416	51°07.8'	2577	25°41.7'	2705
21	89°47.5'	2767	11°13.4'	2423	68°54.9'	2420	51°40.9'	2579	26°13.9'	2698
22	89°15.8'	2772	10°39.0'	2428	69°29.3'	2424	52°14.0'	2581	26°46.2'	2691
23	88°44.1'	2777	10°04.7'	2432	70°03.6'	2428	52°47.1'	2583	27°18.4'	2685

## Sat Nov 11, 2017 UTC

UTC	-Sun		-Regulus		+Pollux		+Betelgeuse		-Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	88°12.4'	2781	9°30.5'	2437	27°50.8'	2680	53°20.3'	2585	63°31.7'	2468
1	87°40.8'	2786	8°56.2'	2442	28°23.1'	2675	53°53.3'	2587	62°57.7'	2473
2	87°09.2'	2790	8°22.0'	2447	28°55.6'	2671	54°26.4'	2589	62°23.8'	2477
3	86°37.7'	2795	7°47.9'	2452	29°28.0'	2667	54°59.5'	2591	61°49.9'	2482
4	86°06.1'	2799	7°13.8'	2457	30°00.5'	2664	55°32.5'	2593	61°16.0'	2487
5	85°34.6'	2804	6°39.7'	2463	30°33.0'	2661	56°05.5'	2595	60°42.1'	2491
6	85°03.2'	2808	6°05.7'	2469	31°05.5'	2658	56°38.6'	2597	60°08.3'	2496
7	84°31.7'	2813	5°31.7'	2476	31°38.0'	2656	57°11.5'	2600	59°34.6'	2500
8	84°00.3'	2817	4°57.7'	2484	32°10.6'	2654	57°44.5'	2602	59°00.8'	2505
9	83°29.0'	2822	4°23.9'	2494	32°43.1'	2652	58°17.5'	2605	58°27.1'	2510
10	82°57.7'	2826	3°50.1'	2506	33°15.7'	2651	58°50.4'	2607	57°53.5'	2514
11	82°26.4'	2831	3°16.4'	2524	33°48.3'	2650	59°23.3'	2610	57°19.8'	2519
12	81°55.1'	2835	2°42.8'	2552	34°20.9'	2649	59°56.2'	2612	56°46.2'	2523
13	81°23.9'	2840	2°09.5'	2606	34°53.5'	2649	60°29.1'	2615	56°12.7'	2528
14	80°52.6'	2844	-	-	35°26.1'	2648	61°02.0'	2618	55°39.1'	2533
15	80°21.5'	2849	-	-	35°58.7'	2648	61°34.8'	2620	55°05.7'	2537
16	79°50.3'	2853	-	-	36°31.3'	2648	62°07.6'	2623	54°32.2'	2542
17	79°19.2'	2857	-	-	37°03.9'	2648	62°40.4'	2626	53°58.8'	2547
18	78°48.2'	2862	-	-	37°36.5'	2649	63°13.2'	2629	53°25.4'	2551
19	78°17.1'	2866	-	-	38°09.1'	2649	63°46.0'	2632	52°52.1'	2556
20	77°46.1'	2871	1°52.4'	2605	38°41.7'	2650	64°18.7'	2634	52°18.8'	2561
21	77°15.1'	2875	2°25.3'	2575	39°14.3'	2651	64°51.4'	2637	51°45.5'	2565
22	76°44.2'	2879	2°58.5'	2561	39°46.9'	2651	65°24.1'	2640	51°12.3'	2570
23	76°13.3'	2884	3°31.8'	2555	40°19.5'	2652	65°56.8'	2643	50°39.1'	2575

## Sun Nov 12, 2017 UTC

UTC	-Sun		+Regulus		+Pollux		-Spica		-Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	75°42.4'	2888	4°05.1'	2552	40°52.1'	2654	50°05.9'	2580	38°40.5'	2755
1	75°11.5'	2893	4°38.4'	2551	41°24.7'	2655	49°32.8'	2584	38°08.7'	2759
2	74°40.7'	2897	5°11.8'	2552	41°57.2'	2656	48°59.7'	2589	37°36.9'	2764
3	74°09.9'	2901	5°45.1'	2553	42°29.8'	2658	48°26.6'	2594	37°05.2'	2768
4	73°39.1'	2906	6°18.5'	2555	43°02.3'	2659	47°53.6'	2599	36°33.4'	2773
5	73°08.4'	2910	6°51.8'	2558	43°34.8'	2661	47°20.6'	2604	36°01.8'	2777
6	72°37.7'	2914	7°25.1'	2561	44°07.3'	2662	46°47.7'	2609	35°30.1'	2782
7	72°07.0'	2919	7°58.3'	2564	44°39.8'	2664	46°14.8'	2613	34°58.5'	2786
8	71°36.4'	2923	8°31.6'	2567	45°12.3'	2666	45°41.9'	2618	34°26.9'	2791
9	71°05.8'	2927	9°04.8'	2570	45°44.8'	2668	45°09.1'	2623	33°55.3'	2795
10	70°35.2'	2931	9°38.0'	2573	46°17.3'	2670	44°36.3'	2628	33°23.8'	2800
11	70°04.6'	2936	10°11.2'	2577	46°49.7'	2672	44°03.5'	2633	32°52.3'	2805
12	69°34.1'	2940	10°44.3'	2580	47°22.1'	2674	43°30.8'	2638	32°20.9'	2809
13	69°03.6'	2944	11°17.5'	2583	47°54.6'	2676	42°58.1'	2643	31°49.5'	2814
14	68°33.2'	2948	11°50.6'	2587	48°27.0'	2678	42°25.5'	2649	31°18.1'	2818
15	68°02.7'	2952	12°23.6'	2590	48°59.3'	2680	41°52.9'	2654	30°46.7'	2823
16	67°32.3'	2957	12°56.7'	2594	49°31.7'	2682	41°20.3'	2659	30°15.4'	2828
17	67°02.0'	2961	13°29.7'	2598	50°04.1'	2685	40°47.8'	2664	29°44.1'	2832
18	66°31.6'	2965	14°02.7'	2601	50°36.4'	2687	40°15.3'	2669	29°12.8'	2837
19	66°01.3'	2969	14°35.7'	2605	51°08.7'	2689	39°42.8'	2675	28°41.6'	2842
20	65°31.0'	2973	15°08.6'	2608	51°41.0'	2692	39°10.4'	2680	28°10.4'	2847
21	65°00.8'	2977	15°41.5'	2612	52°13.3'	2694	38°38.0'	2685	27°39.3'	2852
22	64°30.5'	2982	16°14.4'	2615	52°45.6'	2697	38°05.7'	2691	27°08.2'	2856
23	64°00.3'	2986	16°47.2'	2619	53°17.8'	2699	37°33.4'	2697	26°37.1'	2861

Mon Nov 13, 2017 UTC

UTC	−Sun		+Regulus		−Spica		−Mars		+Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	63°30.2'	2990	17°20.1'	2622	37°01.2'	2702	26°06.0'	2866	53°50.0'	2701
1	63°00.0'	2994	17°52.9'	2626	36°29.0'	2708	25°35.0'	2871	54°22.3'	2704
2	62°29.9'	2998	18°25.7'	2629	35°56.8'	2714	25°04.1'	2876	54°54.5'	2706
3	61°59.8'	3002	18°58.4'	2633	35°24.7'	2720	24°33.1'	2881	55°26.6'	2709
4	61°29.8'	3006	19°31.1'	2636	34°52.6'	2726	24°02.2'	2887	55°58.8'	2712
5	60°59.7'	3010	20°03.8'	2640	34°20.6'	2732	23°31.3'	2892	56°30.9'	2714
6	60°29.7'	3014	20°36.5'	2643	33°48.6'	2738	23°00.5'	2897	57°03.0'	2717
7	59°59.8'	3018	21°09.1'	2647	33°16.6'	2744	22°29.7'	2903	57°35.1'	2719
8	59°29.8'	3022	21°41.8'	2650	32°44.7'	2751	21°59.0'	2908	58°07.2'	2722
9	58°59.9'	3026	22°14.4'	2654	32°12.9'	2757	21°28.3'	2914	58°39.3'	2725
10	58°30.0'	3030	22°46.9'	2657	31°41.1'	2764	20°57.6'	2920	59°11.3'	2727
11	58°00.1'	3034	23°19.5'	2660	31°09.3'	2771	20°27.0'	2926	59°43.3'	2730
12	57°30.3'	3038	23°52.0'	2664	30°37.6'	2778	19°56.4'	2932	60°15.3'	2733
13	57°00.5'	3042	24°24.5'	2667	30°06.0'	2785	19°25.8'	2938	60°47.3'	2735
14	56°30.7'	3046	24°56.9'	2670	29°34.4'	2792	18°55.3'	2945	61°19.3'	2738
15	56°01.0'	3050	25°29.4'	2674	29°02.8'	2800	18°24.9'	2952	61°51.2'	2741
16	55°31.2'	3054	26°01.8'	2677	28°31.4'	2808	17°54.5'	2959	62°23.1'	2743
17	55°01.5'	3058	26°34.2'	2680	27°59.9'	2816	17°24.1'	2966	62°55.0'	2746
18	54°31.9'	3062	27°06.6'	2684	27°28.5'	2824	16°53.8'	2974	63°26.9'	2749
19	54°02.2'	3066	27°38.9'	2687	26°57.2'	2833	16°23.6'	2982	63°58.8'	2751
20	53°32.6'	3069	28°11.2'	2690	26°26.0'	2842	15°53.4'	2991	64°30.6'	2754
21	53°03.0'	3073	28°43.5'	2694	25°54.8'	2851	15°23.2'	3000	65°02.5'	2757
22	52°33.4'	3077	29°15.8'	2697	25°23.7'	2860	14°53.2'	3010	65°34.3'	2759
23	52°03.9'	3081	29°48.0'	2700	24°52.6'	2870	14°23.1'	3020	66°06.0'	2762

Tue Nov 14, 2017 UTC

UTC	−Sun		+Regulus		−Spica		−Mars		+Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	51°34.4'	3085	30°20.3'	2703	24°21.6'	2881	13°53.2'	3031	66°37.8'	2765
1	51°04.9'	3089	30°52.5'	2706	23°50.7'	2892	13°23.4'	3043	67°09.6'	2768
2	50°35.4'	3093	31°24.6'	2710	23°19.9'	2903	12°53.6'	3056	67°41.3'	2770
3	50°06.0'	3097	31°56.8'	2713	22°49.1'	2915	12°23.9'	3070	68°13.0'	2773
4	49°36.6'	3100	32°28.9'	2716	22°18.5'	2928	11°54.3'	3086	68°44.7'	2776
5	49°07.2'	3104	33°01.0'	2719	21°47.9'	2941	11°24.8'	3103	69°16.3'	2778
6	48°37.8'	3108	33°33.1'	2722	21°17.4'	2955	10°55.5'	3122	69°48.0'	2781
7	48°08.5'	3112	34°05.1'	2725	20°47.0'	2970	10°26.2'	3144	70°19.6'	2784
8	47°39.2'	3116	34°37.2'	2728	20°16.8'	2986	9°57.1'	3168	70°51.2'	2787
9	47°09.9'	3120	35°09.2'	2732	19°46.6'	3003	9°28.2'	3196	71°22.8'	2789
10	46°40.7'	3124	35°41.2'	2735	19°16.5'	3020	8°59.5'	3229	71°54.4'	2792
11	46°11.4'	3127	36°13.1'	2738	18°46.6'	3040	8°30.9'	3266	72°25.9'	2795
12	45°42.2'	3131	36°45.1'	2741	18°16.8'	3060	8°02.6'	3311	72°57.4'	2798
13	45°13.1'	3135	37°17.0'	2744	17°47.2'	3082	7°34.6'	3364	73°28.9'	2800
14	44°43.9'	3139	37°48.9'	2747	17°17.6'	3106	7°07.0'	3428	74°00.4'	2803
15	44°14.8'	3143	38°20.8'	2750	16°48.3'	3132	6°39.7'	3507	74°31.9'	2806
16	43°45.7'	3147	38°52.6'	2753	16°19.1'	3160	6°13.0'	3605	75°03.3'	2808
17	43°16.6'	3151	39°24.5'	2756	15°50.1'	3190	5°46.8'	3728	75°34.8'	2811
18	42°47.6'	3154	39°56.3'	2759	15°21.4'	3224	–	–	76°06.2'	2814
19	42°18.6'	3158	40°28.1'	2762	14°52.8'	3260	–	–	76°37.6'	2816
20	41°49.6'	3162	40°59.8'	2765	14°24.5'	3300	–	–	77°08.9'	2819
21	41°20.6'	3166	41°31.6'	2768	13°56.4'	3345	–	–	77°40.3'	2822
22	40°51.7'	3170	42°03.3'	2770	13°28.6'	3394	–	–	78°11.6'	2825
23	40°22.7'	3174	42°35.0'	2773	13°01.2'	3449	–	–	78°42.9'	2827

Wed Nov 15, 2017 UTC

UTC	+Regulus		-Spica		+Pollux		+Procyon		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	43°06.7'	2776	12°34.1'	3510	79°14.2'	2830	78°43.5'	2911	104°37.7'	2881
1	43°38.4'	2779	12°07.3'	3579	79°45.5'	2833	79°14.2'	2914	105°08.6'	2884
2	44°10.0'	2782	11°41.0'	3657	80°16.7'	2835	79°44.9'	2916	105°39.5'	2888
3	44°41.6'	2785	11°15.2'	3745	80°48.0'	2838	80°15.6'	2919	106°10.4'	2891
4	45°13.2'	2788	10°49.8'	3846	81°19.2'	2841	80°46.2'	2921	106°41.2'	2895
5	45°44.8'	2790	10°25.1'	3961	81°50.4'	2843	81°16.8'	2923	107°12.0'	2898
6	46°16.4'	2793	10°01.0'	4094	82°21.6'	2846	81°47.4'	2926	107°42.8'	2902
7	46°47.9'	2796	-	-	82°52.7'	2849	82°18.0'	2928	108°13.6'	2905
8	47°19.4'	2799	-	-	83°23.8'	2851	82°48.6'	2931	108°44.3'	2909
9	47°50.9'	2802	-	-	83°55.0'	2854	83°19.1'	2933	109°15.0'	2912
10	48°22.4'	2804	-	-	84°26.1'	2857	83°49.7'	2936	109°45.7'	2916
11	48°53.8'	2807	-	-	84°57.1'	2859	84°20.2'	2938	110°16.4'	2919
12	49°25.3'	2810	-	-	85°28.2'	2862	84°50.7'	2941	110°47.0'	2923
13	49°56.7'	2812	-	-	85°59.2'	2865	85°21.2'	2944	111°17.6'	2926
14	50°28.1'	2815	-	-	86°30.3'	2867	85°51.6'	2946	111°48.2'	2930
15	50°59.5'	2818	-	-	87°01.3'	2870	86°22.1'	2949	112°18.8'	2933
16	51°30.8'	2821	-	-	87°32.3'	2872	86°52.5'	2951	112°49.3'	2937
17	52°02.2'	2823	-	-	88°03.2'	2875	87°22.9'	2954	113°19.8'	2940
18	52°33.5'	2826	-	-	88°34.2'	2878	87°53.3'	2956	113°50.3'	2944
19	53°04.8'	2829	-	-	89°05.1'	2880	88°23.7'	2959	114°20.8'	2948
20	53°36.1'	2831	-	-	89°36.0'	2883	88°54.0'	2962	114°51.2'	2951
21	54°07.3'	2834	-	-	90°06.9'	2886	89°24.4'	2964	115°21.6'	2955
22	54°38.6'	2836	-	-	90°37.8'	2888	89°54.7'	2967	115°52.0'	2959
23	55°09.8'	2839	-	-	91°08.6'	2891	90°25.0'	2969	116°22.3'	2963

Thu Nov 16, 2017 UTC

UTC	-Jupiter		+Mars		+Regulus		+Pollux		+Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	12°43.8'	3142	10°56.4'	3232	55°41.0'	2842	91°39.5'	2893	90°55.3'	2972
1	12°14.7'	3164	11°24.9'	3221	56°12.2'	2844	92°10.3'	2896	91°25.6'	2975
2	11°45.8'	3189	11°53.4'	3212	56°43.4'	2847	92°41.1'	2899	91°55.8'	2977
3	11°17.0'	3216	12°22.1'	3204	57°14.5'	2849	93°11.9'	2901	92°26.0'	2980
4	10°48.4'	3247	12°50.8'	3197	57°45.7'	2852	93°42.6'	2904	92°56.2'	2983
5	10°20.0'	3283	13°19.5'	3192	58°16.8'	2854	94°13.4'	2906	93°26.4'	2985
6	9°51.8'	3323	13°48.3'	3187	58°47.9'	2857	94°44.1'	2909	93°56.6'	2988
7	9°23.9'	3370	14°17.1'	3183	59°19.0'	2859	95°14.8'	2912	94°26.8'	2991
8	8°56.3'	3425	14°45.9'	3179	59°50.0'	2862	95°45.5'	2914	94°56.9'	2994
9	8°29.0'	3489	15°14.8'	3176	60°21.1'	2864	96°16.2'	2917	95°27.0'	2996
10	8°02.1'	3566	15°43.6'	3174	60°52.1'	2867	96°46.8'	2919	95°57.1'	2999
11	7°35.7'	3657	16°12.5'	3172	61°23.1'	2869	97°17.5'	2922	96°27.2'	3002
12	7°09.9'	3768	16°41.4'	3170	61°54.1'	2872	97°48.1'	2925	96°57.2'	3005
13	6°44.7'	3904	17°10.4'	3169	62°25.0'	2874	98°18.7'	2927	97°27.3'	3007
14	-	-	17°39.3'	3168	62°56.0'	2877	98°49.3'	2930	97°57.3'	3010
15	-	-	18°08.2'	3167	63°26.9'	2879	99°19.8'	2932	98°27.3'	3013
16	-	-	18°37.1'	3167	63°57.9'	2882	99°50.4'	2935	98°57.3'	3016
17	-	-	19°06.1'	3167	64°28.8'	2884	100°20.9'	2938	99°27.2'	3019
18	-	-	19°35.0'	3167	64°59.6'	2886	100°51.4'	2940	99°57.2'	3022
19	-	-	20°04.0'	3167	65°30.5'	2889	101°21.9'	2943	100°27.1'	3024
20	-	-	20°32.9'	3167	66°01.4'	2891	101°52.4'	2945	100°57.0'	3027
21	-	-	21°01.8'	3167	66°32.2'	2894	102°22.8'	2948	101°26.9'	3030
22	-	-	21°30.8'	3168	67°03.0'	2896	102°53.2'	2950	101°56.8'	3033
23	-	-	21°59.7'	3169	67°33.8'	2898	103°23.7'	2953	102°26.6'	3036



Fri Nov 17, 2017 UTC

UTC	+Mars		+Spica		+Regulus		+Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	22°28.6'	3170	15°38.8'	3319	68°04.6'	2901	103°54.1'	2956
1	22°57.5'	3170	16°06.7'	3296	68°35.4'	2903	104°24.4'	2958
2	23°26.5'	3171	16°34.8'	3275	69°06.1'	2905	104°54.8'	2961
3	23°55.4'	3172	17°03.0'	3257	69°36.9'	2908	105°25.1'	2963
4	24°24.3'	3174	17°31.4'	3240	70°07.6'	2910	105°55.5'	2966
5	24°53.2'	3175	17°59.8'	3225	70°38.3'	2912	106°25.8'	2968
6	25°22.0'	3176	18°28.4'	3211	71°09.0'	2914	106°56.1'	2971
7	25°50.9'	3177	18°57.0'	3198	71°39.6'	2917	107°26.3'	2974
8	26°19.8'	3179	19°25.8'	3186	72°10.3'	2919	107°56.6'	2976
9	26°48.7'	3180	19°54.6'	3176	72°40.9'	2921	108°26.8'	2979
10	27°17.5'	3181	20°23.4'	3166	73°11.5'	2923	108°57.1'	2981
11	27°46.3'	3183	20°52.4'	3157	73°42.2'	2926	109°27.3'	2984
12	28°15.2'	3184	21°21.4'	3149	74°12.7'	2928	109°57.4'	2987
13	28°44.0'	3186	21°50.4'	3142	74°43.3'	2930	110°27.6'	2989
14	29°12.8'	3188	22°19.6'	3135	75°13.9'	2932	110°57.7'	2992
15	29°41.6'	3189	22°48.7'	3129	75°44.4'	2935	111°27.9'	2994
16	30°10.4'	3191	23°17.9'	3123	76°14.9'	2937	111°58.0'	2997
17	30°39.2'	3192	23°47.1'	3118	76°45.5'	2939	112°28.1'	3000
18	31°07.9'	3194	24°16.4'	3113	77°16.0'	2941	112°58.1'	3002
19	31°36.7'	3196	24°45.7'	3109	77°46.4'	2943	113°28.2'	3005
20	32°05.5'	3197	25°15.0'	3105	78°16.9'	2945	113°58.2'	3007
21	32°34.2'	3199	25°44.4'	3101	78°47.4'	2948	114°28.3'	3010
22	33°02.9'	3201	26°13.7'	3098	79°17.8'	2950	114°58.3'	3013
23	33°31.6'	3203	26°43.1'	3095	79°48.2'	2952	115°28.2'	3015

Mon Nov 20, 2017 UTC

UTC	-Saturn		-Formalhaut		-Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	12°30.2'	3214	81°57.3'	3308	51°15.3'	4006
1	12°01.5'	3227	81°29.3'	3310	50°51.5'	4021
2	11°33.0'	3241	81°01.3'	3312	50°27.7'	4037
3	11°04.6'	3257	80°33.3'	3315	50°04.0'	4053
4	10°36.2'	3275	80°05.3'	3317	49°40.4'	4069
5	10°08.0'	3296	79°37.4'	3319	49°16.9'	4086
6	9°39.9'	3319	79°09.4'	3321	48°53.5'	4104
7	9°12.0'	3346	78°41.5'	3323	48°30.2'	4121
8	8°44.2'	3378	78°13.6'	3326	48°06.9'	4140
9	8°16.6'	3415	77°45.7'	3328	47°43.8'	4158
10	7°49.3'	3459	77°17.8'	3330	47°20.8'	4178
11	7°22.2'	3512	76°49.9'	3332	46°57.9'	4197
12	6°55.5'	3577	76°22.1'	3335	46°35.0'	4218
13	6°29.2'	3657	75°54.2'	3337	46°12.3'	4239
14	6°03.3'	3756	75°26.4'	3340	45°49.7'	4260
15	5°38.1'	3883	74°58.6'	3342	45°27.2'	4282
16	–	–	74°30.8'	3344	45°04.8'	4305
17	–	–	74°03.0'	3347	44°42.6'	4328
18	–	–	73°35.3'	3349	44°20.4'	4352
19	–	–	73°07.5'	3352	43°58.4'	4377
20	–	–	72°39.8'	3354	43°36.5'	4402
21	–	–	72°12.1'	3357	43°14.7'	4428
22	–	–	71°44.4'	3360	42°53.1'	4455
23	–	–	71°16.7'	3362	42°31.6'	4483

Tue Nov 21, 2017 UTC

UTC	−Formalhaut		−Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	70°49.0′	3365	42°10.2′	4512
1	70°21.4′	3368	41°48.9′	4541
2	69°53.8′	3370	41°27.9′	4572
3	69°26.1′	3373	41°06.9′	4603
4	68°58.5′	3376	40°46.1′	4636
5	68°31.0′	3379	40°25.5′	4669
6	68°03.4′	3382	40°05.0′	4704
7	67°35.9′	3385	39°44.7′	4739
8	67°08.3′	3387	39°24.6′	4776
9	66°40.8′	3390	39°04.6′	4814
10	66°13.4′	3393	38°44.8′	4854
11	65°45.9′	3397	38°25.2′	4895
12	65°18.4′	3400	38°05.7′	4937
13	64°51.0′	3403	37°46.5′	4981
14	64°23.6′	3406	37°27.4′	5026
15	63°56.2′	3409	37°08.6′	5073
16	63°28.9′	3413	36°49.9′	5121
17	63°01.5′	3416	36°31.4′	5171
18	62°34.2′	3419	36°13.2′	5223
19	62°06.9′	3423	35°55.2′	5278
20	61°39.6′	3426	35°37.4′	5334
21	61°12.3′	3430	35°19.8′	5392
22	60°45.1′	3433	35°02.5′	5452
23	60°17.9′	3437	34°45.4′	5515

Wed Nov 22, 2017 UTC

UTC	+Saturn		−Formalhaut		−Altair		−Achernar	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	11°42.7′	3264	59°50.7′	3441	34°28.5′	5581	81°30.6′	5817
1	12°11.0′	3254	59°23.5′	3445	34°11.9′	5648	81°14.9′	5825
2	12°39.4′	3244	58°56.4′	3449	33°55.6′	5719	80°59.2′	5833
3	13°07.8′	3236	58°29.3′	3453	33°39.5′	5793	80°43.5′	5841
4	13°36.3′	3228	58°02.2′	3457	33°23.7′	5869	80°27.9′	5850
5	14°04.8′	3222	57°35.1′	3461	33°08.2′	5949	80°12.3′	5858
6	14°33.4′	3215	57°08.1′	3465	32°52.9′	6032	79°56.7′	5867
7	15°02.0′	3210	56°41.0′	3469	32°38.0′	6119	79°41.2′	5877
8	15°30.7′	3205	56°14.0′	3474	32°23.3′	6210	79°25.7′	5886
9	15°59.3′	3200	55°47.1′	3478	32°08.9′	6304	79°10.2′	5896
10	16°28.1′	3195	55°20.1′	3483	31°54.9′	6403	78°54.8′	5906
11	16°56.8′	3191	54°53.2′	3488	31°41.1′	6507	78°39.4′	5916
12	17°25.6′	3187	54°26.4′	3492	31°27.7′	6615	78°24.0′	5926
13	17°54.4′	3184	53°59.5′	3497	31°14.6′	6728	78°08.7′	5937
14	18°23.2′	3181	53°32.7′	3502	31°01.9′	6847	77°53.4′	5948
15	18°52.1′	3177	53°05.9′	3507	30°49.5′	6972	77°38.1′	5959
16	19°20.9′	3174	52°39.1′	3513	30°37.5′	7103	77°22.9′	5971
17	19°49.8′	3172	52°12.4′	3518	30°25.8′	7241	77°07.8′	5982
18	20°18.7′	3169	51°45.7′	3524	30°14.4′	7386	76°52.6′	5995
19	20°47.6′	3166	51°19.1′	3529	30°03.5′	7539	76°37.5′	6007
20	21°16.6′	3164	50°52.5′	3535	29°52.9′	7701	76°22.5′	6019
21	21°45.5′	3162	50°25.9′	3541	29°42.7′	7871	76°07.5′	6032
22	22°14.5′	3159	49°59.3′	3547	29°32.9′	8052	75°52.5′	6045
23	22°43.5′	3157	49°32.8′	3553	29°23.5′	8244	75°37.6′	6059

Thu Nov 23, 2017 UTC

UTC	+Sun		+Saturn		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	49°12.1'	3495	23°12.5'	3155	49°06.3'	3560
1	49°38.9'	3494	23°41.5'	3153	48°39.9'	3567
2	50°05.8'	3492	24°10.6'	3151	48°13.5'	3573
3	50°32.6'	3491	24°39.6'	3149	47°47.2'	3581
4	50°59.5'	3490	25°08.7'	3147	47°20.9'	3588
5	51°26.3'	3489	25°37.7'	3145	46°54.6'	3595
6	51°53.2'	3487	26°06.8'	3143	46°28.4'	3603
7	52°20.1'	3486	26°35.9'	3141	46°02.2'	3611
8	52°47.0'	3485	27°05.0'	3139	45°36.1'	3619
9	53°13.9'	3483	27°34.2'	3137	45°10.0'	3628
10	53°40.8'	3482	28°03.3'	3135	44°44.0'	3636
11	54°07.7'	3480	28°32.4'	3133	44°18.0'	3645
12	54°34.6'	3479	29°01.6'	3131	43°52.1'	3655
13	55°01.5'	3477	29°30.8'	3129	43°26.2'	3664
14	55°28.5'	3476	29°60.0'	3127	43°00.4'	3674
15	55°55.4'	3474	30°29.2'	3125	42°34.7'	3685
16	56°22.4'	3472	30°58.4'	3123	42°09.0'	3695
17	56°49.4'	3471	31°27.6'	3121	41°43.4'	3706
18	57°16.4'	3469	31°56.9'	3119	41°17.8'	3718
19	57°43.4'	3467	32°26.1'	3117	40°52.3'	3730
20	58°10.4'	3465	32°55.4'	3115	40°26.9'	3742
21	58°37.4'	3463	33°24.7'	3113	40°01.5'	3755
22	59°04.4'	3461	33°54.0'	3111	39°36.3'	3768
23	59°31.5'	3459	34°23.3'	3109	39°11.1'	3782

Fri Nov 24, 2017 UTC

UTC	+Sun		+Saturn		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	59°58.5'	3457	34°52.6'	3107	38°46.0'	3796
1	60°25.6'	3455	35°21.9'	3105	38°20.9'	3811
2	60°52.7'	3453	35°51.3'	3103	37°56.0'	3826
3	61°19.7'	3451	36°20.7'	3100	37°31.1'	3843
4	61°46.9'	3449	36°50.1'	3098	37°06.3'	3859
5	62°14.0'	3446	37°19.5'	3096	36°41.7'	3877
6	62°41.1'	3444	37°48.9'	3093	36°17.1'	3895
7	63°08.3'	3442	38°18.3'	3091	35°52.6'	3914
8	63°35.4'	3439	38°47.8'	3089	35°28.3'	3934
9	64°02.6'	3437	39°17.2'	3086	35°04.0'	3954
10	64°29.8'	3434	39°46.7'	3084	34°39.9'	3976
11	64°57.0'	3432	40°16.2'	3081	34°15.8'	3998
12	65°24.2'	3429	40°45.7'	3079	33°51.9'	4022
13	65°51.5'	3426	41°15.2'	3076	33°28.2'	4046
14	66°18.7'	3424	41°44.8'	3074	33°04.5'	4072
15	66°46.0'	3421	42°14.3'	3071	32°41.1'	4099
16	67°13.3'	3418	42°43.9'	3068	32°17.7'	4127
17	67°40.6'	3415	43°13.5'	3066	31°54.5'	4156
18	68°07.9'	3413	43°43.2'	3063	31°31.5'	4187
19	68°35.3'	3410	44°12.8'	3060	31°08.6'	4219
20	69°02.7'	3407	44°42.5'	3057	30°45.9'	4253
21	69°30.0'	3404	45°12.1'	3054	30°23.3'	4289
22	69°57.4'	3400	45°41.8'	3051	30°01.0'	4326
23	70°24.9'	3397	46°11.5'	3048	29°38.8'	4366

## Sat Nov 25, 2017 UTC

UTC	+Sun		+Saturn		-Formalhaut		-Aldebaran		-Rigel	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	70°52.3'	3394	46°41.3'	3045	29°16.9'	4407	116°10.6'	2994	118°15.5'	3644
1	71°19.8'	3391	47°11.0'	3042	28°55.1'	4451	115°40.5'	2992	117°49.6'	3635
2	71°47.2'	3388	47°40.8'	3039	28°33.6'	4496	115°10.4'	2989	117°23.6'	3626
3	72°14.7'	3384	48°10.6'	3036	28°12.3'	4545	114°40.2'	2986	116°57.6'	3617
4	72°42.3'	3381	48°40.4'	3033	27°51.2'	4596	114°10.1'	2983	116°31.5'	3609
5	73°09.8'	3378	49°10.3'	3030	27°30.4'	4649	113°39.9'	2980	116°05.4'	3600
6	73°37.4'	3374	49°40.2'	3026	27°09.8'	4706	113°09.7'	2977	115°39.2'	3592
7	74°05.0'	3371	50°10.0'	3023	26°49.5'	4766	112°39.4'	2973	115°12.9'	3584
8	74°32.6'	3367	50°40.0'	3020	26°29.5'	4829	112°09.2'	2970	114°46.6'	3576
9	75°00.2'	3363	51°09.9'	3016	26°09.8'	4896	111°38.9'	2967	114°20.3'	3567
10	75°27.9'	3360	51°39.9'	3013	25°50.3'	4966	111°08.6'	2964	113°53.9'	3559
11	75°55.6'	3356	52°09.8'	3009	25°31.2'	5041	110°38.3'	2960	113°27.5'	3552
12	76°23.3'	3352	52°39.8'	3006	25°12.4'	5121	110°07.9'	2957	113°01.0'	3544
13	76°51.0'	3348	53°09.9'	3002	24°54.0'	5205	109°37.6'	2953	112°34.5'	3536
14	77°18.8'	3344	53°39.9'	2999	24°35.9'	5295	109°07.2'	2950	112°07.9'	3528
15	77°46.5'	3340	54°10.0'	2995	24°18.1'	5390	108°36.7'	2946	111°41.3'	3521
16	78°14.3'	3336	54°40.1'	2991	24°00.8'	5491	108°06.3'	2943	111°14.6'	3513
17	78°42.2'	3332	55°10.3'	2987	23°43.8'	5599	107°35.8'	2939	110°47.9'	3506
18	79°10.0'	3328	55°40.4'	2984	23°27.3'	5714	107°05.3'	2935	110°21.1'	3498
19	79°37.9'	3324	56°10.6'	2980	23°11.2'	5837	106°34.8'	2932	109°54.3'	3491
20	80°05.8'	3320	56°40.8'	2976	22°55.6'	5968	106°04.3'	2928	109°27.4'	3484
21	80°33.7'	3316	57°11.1'	2972	22°40.4'	6108	105°33.7'	2924	109°00.5'	3476
22	81°01.7'	3312	57°41.3'	2968	22°25.7'	6258	105°03.1'	2920	108°33.6'	3469
23	81°29.7'	3307	58°11.6'	2964	22°11.5'	6420	104°32.5'	2916	108°06.6'	3462

## Sun Nov 26, 2017 UTC

UTC	+Sun		+Saturn		-Aldebaran		-Rigel		+Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	81°57.7'	3303	58°41.9'	2960	104°01.8'	2912	107°39.5'	3455	37°40.4'	4785
1	82°25.8'	3298	59°12.3'	2956	103°31.1'	2908	107°12.5'	3448	38°00.4'	4738
2	82°53.8'	3294	59°42.7'	2951	103°00.4'	2904	106°45.3'	3441	38°20.5'	4691
3	83°21.9'	3289	60°13.1'	2947	102°29.7'	2900	106°18.2'	3434	38°40.9'	4647
4	83°50.1'	3285	60°43.5'	2943	101°58.9'	2896	105°51.0'	3427	39°01.5'	4603
5	84°18.2'	3280	61°14.0'	2939	101°28.1'	2892	105°23.7'	3420	39°22.3'	4561
6	84°46.4'	3276	61°44.5'	2934	100°57.3'	2887	104°56.4'	3413	39°43.3'	4521
7	85°14.6'	3271	62°15.0'	2930	100°26.4'	2883	104°29.1'	3407	40°04.4'	4481
8	85°42.9'	3266	62°45.6'	2925	99°55.5'	2879	104°01.7'	3400	40°25.8'	4442
9	86°11.2'	3261	63°16.2'	2921	99°24.6'	2874	103°34.3'	3393	40°47.4'	4405
10	86°39.5'	3256	63°46.8'	2916	98°53.6'	2870	103°06.8'	3387	41°09.2'	4369
11	87°07.8'	3252	64°17.5'	2912	98°22.6'	2866	102°39.3'	3380	41°31.1'	4333
12	87°36.2'	3247	64°48.1'	2907	97°51.6'	2861	102°11.7'	3374	41°53.2'	4299
13	88°04.6'	3242	65°18.9'	2902	97°20.6'	2856	101°44.1'	3367	42°15.5'	4266
14	88°33.1'	3237	65°49.6'	2898	96°49.5'	2852	101°16.5'	3361	42°38.0'	4233
15	89°01.6'	3232	66°20.4'	2893	96°18.4'	2847	100°48.8'	3354	43°00.6'	4202
16	89°30.1'	3226	66°51.2'	2888	95°47.2'	2842	100°21.1'	3348	43°23.4'	4171
17	89°58.6'	3221	67°22.1'	2883	95°16.0'	2838	99°53.4'	3342	43°46.4'	4141
18	90°27.2'	3216	67°53.0'	2879	94°44.8'	2833	99°25.6'	3335	44°09.5'	4111
19	90°55.8'	3211	68°23.9'	2874	94°13.6'	2828	98°57.7'	3329	44°32.8'	4083
20	91°24.4'	3205	68°54.9'	2869	93°42.3'	2823	98°29.8'	3323	44°56.2'	4055
21	91°53.1'	3200	69°25.8'	2864	93°11.0'	2818	98°01.9'	3317	45°19.8'	4028
22	92°21.8'	3195	69°56.9'	2859	92°39.6'	2813	97°34.0'	3310	45°43.6'	4001
23	92°50.6'	3189	70°27.9'	2854	92°08.2'	2808	97°06.0'	3304	46°07.4'	3975

Mon Nov 27, 2017 UTC

UTC	+Sun		+Saturn		-Aldebaran		-Betelgeuse		+Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	93°19.4'	3184	70°59.0'	2848	91°36.8'	2803	109°23.3'	2914	46°31.5'	3950
1	93°48.2'	3178	71°30.2'	2843	91°05.3'	2798	108°52.6'	2908	46°55.6'	3925
2	94°17.1'	3173	72°01.4'	2838	90°33.8'	2793	108°21.9'	2902	47°19.9'	3901
3	94°46.0'	3167	72°32.6'	2833	90°02.3'	2788	107°51.1'	2897	47°44.4'	3877
4	95°14.9'	3161	73°03.8'	2828	89°30.7'	2783	107°20.4'	2891	48°08.9'	3854
5	95°43.9'	3156	73°35.1'	2822	88°59.1'	2778	106°49.5'	2885	48°33.6'	3831
6	96°12.9'	3150	74°06.4'	2817	88°27.5'	2772	106°18.6'	2879	48°58.5'	3809
7	96°41.9'	3144	74°37.8'	2811	87°55.8'	2767	105°47.7'	2873	49°23.4'	3787
8	97°11.0'	3139	75°09.2'	2806	87°24.0'	2762	105°16.8'	2867	49°48.5'	3766
9	97°40.2'	3133	75°40.7'	2801	86°52.3'	2756	104°45.8'	2861	50°13.7'	3745
10	98°09.3'	3127	76°12.1'	2795	86°20.5'	2751	104°14.7'	2856	50°39.1'	3725
11	98°38.5'	3121	76°43.7'	2790	85°48.6'	2745	103°43.6'	2850	51°04.5'	3705
12	99°07.8'	3115	77°15.2'	2784	85°16.7'	2740	103°12.5'	2844	51°30.1'	3685
13	99°37.1'	3109	77°46.8'	2778	84°44.8'	2734	102°41.3'	2838	51°55.8'	3666
14	100°06.4'	3103	78°18.5'	2773	84°12.8'	2729	102°10.1'	2832	52°21.6'	3647
15	100°35.8'	3097	78°50.2'	2767	83°40.8'	2723	101°38.8'	2826	52°47.5'	3628
16	101°05.2'	3091	79°21.9'	2761	83°08.8'	2717	101°07.5'	2820	53°13.5'	3610
17	101°34.6'	3085	79°53.7'	2756	82°36.7'	2712	100°36.2'	2814	53°39.6'	3592
18	102°04.1'	3079	80°25.5'	2750	82°04.5'	2706	100°04.8'	2808	54°05.9'	3574
19	102°33.6'	3072	80°57.3'	2744	81°32.4'	2700	99°33.4'	2802	54°32.2'	3557
20	103°03.2'	3066	81°29.2'	2738	81°00.2'	2695	99°01.9'	2796	54°58.7'	3540
21	103°32.8'	3060	82°01.2'	2732	80°27.9'	2689	98°30.4'	2789	55°25.2'	3523
22	104°02.5'	3054	82°33.2'	2726	79°55.6'	2683	97°58.8'	2783	55°51.9'	3507
23	104°32.2'	3047	83°05.2'	2721	79°23.2'	2677	97°27.2'	2777	56°18.6'	3491

Tue Nov 28, 2017 UTC

UTC	+Sun		-Aldebaran		+Saturn		-Betelgeuse		+Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	105°01.9'	3041	78°50.8'	2671	83°37.3'	2715	96°55.5'	2771	56°45.5'	3475
1	105°31.7'	3035	78°18.4'	2665	84°09.4'	2709	96°23.8'	2765	57°12.4'	3459
2	106°01.6'	3028	77°45.9'	2659	84°41.5'	2703	95°52.1'	2759	57°39.5'	3444
3	106°31.4'	3022	77°13.4'	2653	85°13.7'	2697	95°20.3'	2753	58°06.6'	3428
4	107°01.3'	3016	76°40.8'	2647	85°46.0'	2691	94°48.5'	2747	58°33.9'	3413
5	107°31.3'	3009	76°08.2'	2641	86°18.3'	2684	94°16.6'	2740	59°01.2'	3399
6	108°01.3'	3003	75°35.6'	2635	86°50.6'	2678	93°44.7'	2734	59°28.7'	3384
7	108°31.4'	2996	75°02.9'	2629	87°23.0'	2672	93°12.7'	2728	59°56.2'	3370
8	109°01.5'	2990	74°30.1'	2623	87°55.4'	2666	92°40.7'	2722	60°23.8'	3356
9	109°31.6'	2983	73°57.3'	2617	88°27.9'	2660	92°08.6'	2716	60°51.5'	3342
10	110°01.8'	2976	73°24.5'	2611	89°00.4'	2654	91°36.5'	2710	61°19.3'	3328
11	110°32.0'	2970	72°51.6'	2605	89°33.0'	2648	91°04.4'	2703	61°47.2'	3315
12	111°02.3'	2963	72°18.6'	2599	90°05.6'	2641	90°32.2'	2697	62°15.2'	3301
13	111°32.6'	2957	71°45.7'	2592	90°38.2'	2635	89°59.9'	2691	62°43.2'	3288
14	112°03.0'	2950	71°12.6'	2586	91°11.0'	2629	89°27.6'	2685	63°11.4'	3275
15	112°33.4'	2943	70°39.6'	2580	91°43.7'	2623	88°55.3'	2679	63°39.6'	3262
16	113°03.9'	2937	70°06.4'	2574	92°16.5'	2616	88°22.9'	2672	64°07.9'	3250
17	113°34.4'	2930	69°33.3'	2567	92°49.4'	2610	87°50.5'	2666	64°36.3'	3237
18	114°05.0'	2923	69°00.0'	2561	93°22.3'	2604	87°18.0'	2660	65°04.8'	3225
19	114°35.6'	2917	68°26.8'	2555	93°55.2'	2597	86°45.5'	2654	65°33.3'	3213
20	115°06.2'	2910	67°53.4'	2549	94°28.2'	2591	86°12.9'	2648	66°01.9'	3201
21	115°36.9'	2903	67°20.1'	2542	95°01.2'	2584	85°40.3'	2641	66°30.7'	3189
22	116°07.7'	2897	66°46.7'	2536	95°34.3'	2578	85°07.7'	2635	66°59.4'	3177
23	116°38.5'	2890	66°13.2'	2530	96°07.5'	2572	84°35.0'	2629	67°28.3'	3166

Wed Nov 29, 2017 UTC

UTC	+Sun		-Aldebaran		-Betelgeuse		+Saturn		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	117°09.3'	2883	65°39.7'	2523	84°02.2'	2623	96°40.7'	2565	34°02.4'	3481
1	117°40.2'	2876	65°06.1'	2517	83°29.4'	2617	97°13.9'	2559	34°29.4'	3447
2	118°11.2'	2870	64°32.5'	2510	82°56.6'	2611	97°47.2'	2552	34°56.5'	3415
3	118°42.1'	2863	63°58.9'	2504	82°23.7'	2604	98°20.5'	2546	35°23.8'	3384
4	119°13.2'	2856	63°25.2'	2498	81°50.7'	2598	98°53.9'	2540	35°51.3'	3354
5	119°44.3'	2849	62°51.4'	2491	81°17.7'	2592	99°27.3'	2533	36°19.1'	3324
6	120°15.4'	2843	62°17.6'	2485	80°44.7'	2586	100°00.8'	2527	36°47.0'	3296
7	120°46.6'	2836	61°43.7'	2478	80°11.6'	2580	100°34.4'	2520	37°15.1'	3269
8	121°17.8'	2829	61°09.8'	2472	79°38.5'	2574	101°07.9'	2514	37°43.3'	3242
9	121°49.1'	2822	60°35.9'	2466	79°05.3'	2568	101°41.6'	2507	38°11.8'	3217
10	122°20.4'	2816	60°01.8'	2459	78°32.1'	2562	102°15.3'	2501	38°40.4'	3192
11	122°51.8'	2809	59°27.8'	2453	77°58.9'	2556	102°49.0'	2494	39°09.1'	3168
12	123°23.2'	2802	58°53.7'	2446	77°25.6'	2550	103°22.8'	2488	39°38.1'	3144
13	123°54.7'	2796	58°19.5'	2440	76°52.2'	2544	103°56.6'	2481	40°07.2'	3121
14	124°26.2'	2789	57°45.3'	2433	76°18.8'	2538	104°30.5'	2475	40°36.4'	3099
15	124°57.8'	2782	57°11.0'	2427	75°45.4'	2532	105°04.4'	2469	41°05.8'	3078
16	125°29.4'	2776	56°36.7'	2421	75°11.9'	2526	105°38.4'	2462	41°35.3'	3057
17	126°01.1'	2769	56°02.4'	2414	74°38.3'	2521	106°12.4'	2456	42°05.0'	3036
18	126°32.8'	2762	55°28.0'	2408	74°04.8'	2515	106°46.5'	2449	42°34.8'	3016
19	127°04.5'	2756	54°53.5'	2401	73°31.1'	2509	107°20.7'	2443	43°04.8'	2997
20	127°36.3'	2749	54°19.0'	2395	72°57.5'	2503	107°54.9'	2437	43°34.9'	2978
21	128°08.2'	2743	53°44.4'	2389	72°23.7'	2498	108°29.1'	2430	44°05.1'	2960
22	128°40.1'	2736	53°09.8'	2382	71°50.0'	2492	109°03.4'	2424	44°35.5'	2942
23	129°12.1'	2729	52°35.1'	2376	71°16.2'	2487	109°37.7'	2417	45°06.0'	2924

Thu Nov 30, 2017 UTC

UTC	-Aldebaran		-Betelgeuse		+Formalhaut		-Pollux		-Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	52°00.4'	2370	70°42.3'	2481	45°36.6'	2907	96°05.0'	2420	96°38.1'	2503
1	51°25.6'	2363	70°08.5'	2475	46°07.3'	2890	95°30.7'	2414	96°04.4'	2497
2	50°50.8'	2357	69°34.5'	2470	46°38.1'	2874	94°56.3'	2407	95°30.6'	2490
3	50°16.0'	2351	69°00.5'	2465	47°09.1'	2858	94°21.8'	2401	94°56.8'	2484
4	49°41.0'	2344	68°26.5'	2459	47°40.2'	2842	93°47.3'	2395	94°22.9'	2477
5	49°06.1'	2338	67°52.5'	2454	48°11.3'	2827	93°12.7'	2388	93°49.0'	2471
6	48°31.0'	2332	67°18.4'	2449	48°42.6'	2812	92°38.1'	2382	93°15.1'	2464
7	47°56.0'	2326	66°44.2'	2443	49°14.0'	2797	92°03.4'	2376	92°41.0'	2458
8	47°20.8'	2319	66°10.0'	2438	49°45.5'	2783	91°28.7'	2369	92°07.0'	2452
9	46°45.7'	2313	65°35.8'	2433	50°17.2'	2769	90°53.9'	2363	91°32.8'	2445
10	46°10.4'	2307	65°01.6'	2428	50°48.9'	2755	90°19.1'	2357	90°58.7'	2439
11	45°35.2'	2301	64°27.3'	2423	51°20.7'	2741	89°44.2'	2351	90°24.5'	2433
12	44°59.9'	2295	63°52.9'	2418	51°52.6'	2728	89°09.3'	2345	89°50.2'	2427
13	44°24.5'	2289	63°18.5'	2414	52°24.6'	2715	88°34.4'	2339	89°15.9'	2421
14	43°49.1'	2283	62°44.1'	2409	52°56.7'	2703	87°59.3'	2333	88°41.5'	2415
15	43°13.6'	2277	62°09.7'	2404	53°28.9'	2690	87°24.3'	2327	88°07.1'	2409
16	42°38.1'	2271	61°35.2'	2400	54°01.2'	2678	86°49.2'	2321	87°32.7'	2403
17	42°02.5'	2265	61°00.6'	2395	54°33.6'	2666	86°14.0'	2315	86°58.2'	2397
18	41°26.9'	2259	60°26.1'	2391	55°06.1'	2654	85°38.8'	2309	86°23.6'	2391
19	40°51.2'	2253	59°51.5'	2387	55°38.7'	2643	85°03.5'	2303	85°49.0'	2386
20	40°15.5'	2247	59°16.9'	2382	56°11.3'	2631	84°28.2'	2297	85°14.4'	2380
21	39°39.7'	2241	58°42.2'	2378	56°44.0'	2620	83°52.9'	2292	84°39.7'	2375
22	39°03.9'	2236	58°07.5'	2374	57°16.9'	2609	83°17.5'	2286	84°05.0'	2369
23	38°28.1'	2230	57°32.8'	2370	57°49.8'	2599	82°42.0'	2280	83°30.2'	2364