

Mon Oct 1, 2018 UTC

UTC	−Sun		+Aldebaran		−Pollux		−Regulus		−Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	108°05.9′	2753	9°44.8′	2457	35°17.4′	2533	70°31.2′	2418	37°54.0′	2864
1	107°34.1′	2750	10°18.8′	2450	34°44.0′	2533	69°56.8′	2416	37°23.0′	2873
2	107°02.2′	2748	10°53.0′	2444	34°10.5′	2534	69°22.4′	2413	36°52.0′	2883
3	106°30.3′	2745	11°27.1′	2438	33°37.0′	2536	68°48.0′	2410	36°21.1′	2894
4	105°58.4′	2742	12°01.4′	2433	33°03.5′	2537	68°13.5′	2408	35°50.3′	2905
5	105°26.5′	2739	12°35.6′	2428	32°30.1′	2539	67°39.1′	2405	35°19.6′	2917
6	104°54.6′	2736	13°09.9′	2423	31°56.6′	2540	67°04.6′	2403	34°48.9′	2929
7	104°22.6′	2733	13°44.3′	2419	31°23.2′	2543	66°30.1′	2400	34°18.4′	2942
8	103°50.7′	2730	14°18.7′	2415	30°49.8′	2545	65°55.6′	2397	33°47.9′	2956
9	103°18.7′	2728	14°53.1′	2411	30°16.4′	2548	65°21.0′	2395	33°17.5′	2971
10	102°46.6′	2725	15°27.5′	2407	29°43.0′	2551	64°46.4′	2392	32°47.2′	2987
11	102°14.6′	2722	16°02.0′	2403	29°09.7′	2554	64°11.9′	2390	32°17.1′	3004
12	101°42.6′	2719	16°36.5′	2399	28°36.4′	2558	63°37.2′	2387	31°47.0′	3022
13	101°10.5′	2716	17°11.0′	2396	28°03.1′	2562	63°02.6′	2385	31°17.1′	3041
14	100°38.4′	2714	17°45.6′	2392	27°29.8′	2566	62°28.0′	2382	30°47.3′	3061
15	100°06.3′	2711	18°20.2′	2389	26°56.6′	2571	61°53.3′	2380	30°17.7′	3083
16	99°34.1′	2708	18°54.8′	2386	26°23.4′	2577	61°18.6′	2377	29°48.2′	3106
17	99°01.9′	2705	19°29.4′	2383	25°50.2′	2583	60°43.9′	2375	29°18.8′	3130
18	98°29.8′	2703	20°04.1′	2379	25°17.1′	2590	60°09.2′	2372	28°49.6′	3156
19	97°57.6′	2700	20°38.8′	2376	24°44.1′	2597	59°34.4′	2369	28°20.6′	3184
20	97°25.3′	2697	21°13.5′	2373	24°11.1′	2605	58°59.7′	2367	27°51.8′	3213
21	96°53.1′	2694	21°48.2′	2370	23°38.2′	2614	58°24.9′	2364	27°23.2′	3245
22	96°20.8′	2692	22°23.0′	2367	23°05.3′	2624	57°50.1′	2362	26°54.7′	3278
23	95°48.5′	2689	22°57.8′	2364	22°32.5′	2634	57°15.2′	2359	26°26.5′	3314

Tue Oct 2, 2018 UTC

UTC	−Sun		+Aldebaran		−Pollux		−Regulus		−Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	95°16.2′	2686	23°32.6′	2362	21°59.8′	2646	56°40.4′	2357	25°58.6′	3353
1	94°43.9′	2683	24°07.4′	2359	21°27.2′	2659	56°05.5′	2355	25°30.8′	3394
2	94°11.6′	2681	24°42.3′	2356	20°54.6′	2673	55°30.6′	2352	25°03.4′	3439
3	93°39.2′	2678	25°17.2′	2353	20°22.2′	2689	54°55.7′	2350	24°36.2′	3486
4	93°06.8′	2675	25°52.1′	2350	19°49.9′	2707	54°20.8′	2347	24°09.3′	3537
5	92°34.4′	2673	26°27.0′	2348	19°17.7′	2726	53°45.8′	2345	23°42.7′	3592
6	92°02.0′	2670	27°01.9′	2345	18°45.7′	2747	53°10.9′	2342	23°16.5′	3651
7	91°29.5′	2667	27°36.9′	2342	18°13.8′	2771	52°35.9′	2340	22°50.6′	3715
8	90°57.1′	2665	28°11.9′	2339	17°42.1′	2797	52°00.9′	2337	22°25.1′	3783
9	90°24.6′	2662	28°46.9′	2337	17°10.6′	2826	51°25.8′	2335	21°60.0′	3858
10	89°52.1′	2660	29°21.9′	2334	16°39.3′	2859	50°50.8′	2333	21°35.3′	3938
11	89°19.6′	2657	29°57.0′	2331	16°08.3′	2895	50°15.7′	2330	21°11.1′	4025
12	88°47.0′	2654	30°32.1′	2329	15°37.5′	2936	49°40.6′	2328	20°47.3′	4119
13	88°14.5′	2652	31°07.2′	2326	15°06.9′	2982	49°05.5′	2325	20°24.1′	4221
14	87°41.9′	2649	31°42.3′	2324	14°36.7′	3034	48°30.4′	2323	20°01.4′	4332
15	87°09.3′	2647	32°17.4′	2321	14°06.9′	3092	47°55.3′	2321	19°39.3′	4453
16	86°36.7′	2644	32°52.6′	2319	13°37.5′	3159	47°20.1′	2318	19°17.7′	4585
17	86°04.0′	2642	33°27.7′	2316	13°08.5′	3234	46°44.9′	2316	18°56.9′	4729
18	85°31.4′	2639	34°02.9′	2314	12°40.0′	3321	46°09.7′	2314	18°36.7′	4887
19	84°58.7′	2637	34°38.2′	2311	12°12.0′	3420	45°34.5′	2312	18°17.2′	5061
20	84°26.0′	2634	35°13.4′	2309	11°44.7′	3535	44°59.3′	2309	–	–
21	83°53.3′	2632	35°48.7′	2306	–	–	44°24.0′	2307	–	–
22	83°20.5′	2629	36°23.9′	2304	–	–	43°48.7′	2305	–	–
23	82°47.8′	2627	36°59.2′	2301	–	–	43°13.4′	2303	–	–

Wed Oct 3, 2018 UTC

UTC	−Sun		+Aldebaran		−Regulus		+Betelgeuse		+Rigel	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	82°15.0′	2624	37°34.6′	2299	42°38.1′	2300	23°20.6′	3136	41°19.7′	3719
1	81°42.2′	2622	38°09.9′	2297	42°02.8′	2298	23°49.7′	3095	41°45.2′	3683
2	81°09.4′	2619	38°45.3′	2294	41°27.5′	2296	24°19.2′	3057	42°10.9′	3649
3	80°36.6′	2617	39°20.6′	2292	40°52.1′	2294	24°48.8′	3021	42°36.8′	3617
4	80°03.8′	2615	39°56.0′	2289	40°16.7′	2292	25°18.8′	2988	43°02.9′	3585
5	79°30.9′	2612	40°31.5′	2287	39°41.3′	2290	25°48.9′	2956	43°29.2′	3554
6	78°58.0′	2610	41°06.9′	2285	39°05.9′	2287	26°19.3′	2926	43°55.6′	3525
7	78°25.1′	2608	41°42.3′	2283	38°30.5′	2285	26°49.9′	2898	44°22.3′	3496
8	77°52.2′	2606	42°17.8′	2280	37°55.0′	2283	27°20.7′	2872	44°49.1′	3469
9	77°19.3′	2603	42°53.3′	2278	37°19.6′	2281	27°51.6′	2847	45°16.1′	3442
10	76°46.3′	2601	43°28.8′	2276	36°44.1′	2279	28°22.8′	2823	45°43.3′	3416
11	76°13.4′	2599	44°04.3′	2274	36°08.6′	2277	28°54.1′	2801	46°10.6′	3392
12	75°40.4′	2597	44°39.9′	2271	35°33.1′	2275	29°25.6′	2779	46°38.1′	3368
13	75°07.4′	2595	45°15.5′	2269	34°57.5′	2273	29°57.2′	2759	47°05.7′	3344
14	74°34.4′	2592	45°51.0′	2267	34°22.0′	2272	30°29.0′	2740	47°33.5′	3322
15	74°01.3′	2590	46°26.6′	2265	33°46.4′	2270	31°00.9′	2722	48°01.4′	3300
16	73°28.3′	2588	47°02.3′	2263	33°10.8′	2268	31°33.0′	2705	48°29.5′	3279
17	72°55.2′	2586	47°37.9′	2261	32°35.2′	2266	32°05.2′	2688	48°57.7′	3258
18	72°22.2′	2584	48°13.5′	2259	31°59.6′	2264	32°37.5′	2672	49°26.0′	3239
19	71°49.1′	2582	48°49.2′	2257	31°24.0′	2263	33°09.9′	2657	49°54.5′	3220
20	71°16.0′	2580	49°24.9′	2255	30°48.4′	2261	33°42.5′	2643	50°23.1′	3201
21	70°42.8′	2578	50°00.6′	2253	30°12.7′	2259	34°15.1′	2629	50°51.8′	3183
22	70°09.7′	2576	50°36.3′	2251	29°37.1′	2258	34°47.9′	2616	51°20.6′	3166
23	69°36.5′	2574	51°12.0′	2249	29°01.4′	2256	35°20.7′	2604	51°49.5′	3149

Thu Oct 4, 2018 UTC

UTC	−Sun		−Regulus		+Aldebaran		+Betelgeuse		+Rigel	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	69°03.4′	2572	28°25.7′	2255	51°47.8′	2247	35°53.7′	2592	52°18.6′	3132
1	68°30.2′	2570	27°50.0′	2253	52°23.6′	2245	36°26.7′	2580	52°47.8′	3116
2	67°57.0′	2569	27°14.3′	2252	52°59.3′	2243	36°59.8′	2569	53°17.1′	3101
3	67°23.8′	2567	26°38.6′	2250	53°35.1′	2241	37°33.0′	2558	53°46.4′	3086
4	66°50.5′	2565	26°02.8′	2249	54°11.0′	2239	38°06.3′	2548	54°15.9′	3072
5	66°17.3′	2563	25°27.1′	2248	54°46.8′	2238	38°39.7′	2538	54°45.5′	3058
6	65°44.1′	2562	24°51.3′	2246	55°22.6′	2236	39°13.1′	2529	55°15.2′	3044
7	65°10.8′	2560	24°15.5′	2245	55°58.5′	2234	39°46.6′	2520	55°44.9′	3031
8	64°37.5′	2558	23°39.8′	2244	56°34.3′	2232	40°20.2′	2511	56°14.8′	3018
9	64°04.2′	2557	23°04.0′	2243	57°10.2′	2231	40°53.9′	2503	56°44.7′	3006
10	63°30.9′	2555	22°28.2′	2242	57°46.1′	2229	41°27.6′	2495	57°14.8′	2994
11	62°57.6′	2554	21°52.4′	2242	58°22.0′	2227	42°01.4′	2487	57°44.9′	2982
12	62°24.3′	2552	21°16.6′	2241	58°58.0′	2226	42°35.2′	2480	58°15.1′	2971
13	61°50.9′	2551	20°40.7′	2240	59°33.9′	2224	43°09.1′	2473	58°45.4′	2960
14	61°17.6′	2549	20°04.9′	2240	60°09.9′	2223	43°43.1′	2466	59°15.7′	2949
15	60°44.2′	2548	19°29.1′	2239	60°45.8′	2221	44°17.1′	2459	59°46.1′	2939
16	60°10.9′	2547	18°53.3′	2239	61°21.8′	2220	44°51.1′	2453	60°16.6′	2928
17	59°37.5′	2545	18°17.4′	2239	61°57.8′	2218	45°25.2′	2446	60°47.2′	2919
18	59°04.1′	2544	17°41.6′	2239	62°33.8′	2217	45°59.4′	2440	61°17.8′	2909
19	58°30.7′	2543	17°05.8′	2240	63°09.8′	2215	46°33.6′	2435	61°48.6′	2900
20	57°57.3′	2542	16°30.0′	2240	63°45.8′	2214	47°07.9′	2429	62°19.3′	2891
21	57°23.9′	2541	15°54.1′	2241	64°21.9′	2213	47°42.2′	2424	62°50.2′	2883
22	56°50.4′	2540	15°18.3′	2242	64°57.9′	2211	48°16.5′	2418	63°21.1′	2874
23	56°17.0′	2539	14°42.5′	2244	65°34.0′	2210	48°50.9′	2413	63°52.0′	2866

Fri Oct 5, 2018 UTC

UTC	−Sun		−Regulus		+Pollux		+Betelgeuse		+Aldebaran	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	55°43.6′	2538	14°06.7′	2245	23°08.1′	2458	49°25.3′	2408	66°10.1′	2209
1	55°10.1′	2537	13°31.0′	2248	23°42.2′	2445	49°59.8′	2404	66°46.1′	2208
2	54°36.7′	2536	12°55.2′	2250	24°16.4′	2433	50°34.3′	2399	67°22.2′	2207
3	54°03.2′	2535	12°19.5′	2254	24°50.6′	2422	51°08.8′	2395	67°58.3′	2206
4	53°29.7′	2534	11°43.8′	2258	25°25.0′	2412	51°43.4′	2391	68°34.4′	2204
5	52°56.3′	2533	11°08.1′	2263	25°59.4′	2402	52°18.0′	2387	69°10.5′	2203
6	52°22.8′	2533	10°32.5′	2270	26°33.9′	2393	52°52.6′	2383	69°46.7′	2202
7	51°49.3′	2532	9°56.9′	2278	27°08.5′	2384	53°27.3′	2379	70°22.8′	2201
8	51°15.8′	2532	9°21.4′	2287	27°43.2′	2376	54°01.9′	2375	70°58.9′	2201
9	50°42.3′	2531	8°45.9′	2299	28°17.9′	2368	54°36.7′	2372	71°35.1′	2200
10	50°08.8′	2531	8°10.6′	2314	28°52.7′	2361	55°11.4′	2369	72°11.3′	2199
11	49°35.3′	2530	7°35.4′	2334	29°27.5′	2354	55°46.2′	2365	72°47.4′	2198
12	49°01.8′	2530	7°00.3′	2359	30°02.4′	2348	56°21.0′	2362	73°23.6′	2197
13	48°28.3′	2530	6°25.5′	2391	30°37.3′	2342	56°55.8′	2359	73°59.8′	2196
14	47°54.8′	2529	5°50.9′	2436	31°12.3′	2336	57°30.7′	2356	74°35.9′	2196
15	47°21.3′	2529	5°16.6′	2497	31°47.4′	2331	58°05.6′	2354	75°12.1′	2195
16	46°47.7′	2529	4°42.9′	2585	32°22.4′	2326	58°40.5′	2351	75°48.3′	2195
17	46°14.2′	2529	–	–	32°57.6′	2321	59°15.4′	2349	76°24.5′	2194
18	45°40.7′	2529	–	–	33°32.7′	2316	59°50.3′	2346	77°00.7′	2193
19	45°07.2′	2529	–	–	34°07.9′	2312	60°25.3′	2344	77°36.9′	2193
20	44°33.7′	2529	–	–	34°43.2′	2308	61°00.2′	2342	78°13.1′	2193
21	44°00.2′	2530	–	–	35°18.4′	2304	61°35.2′	2340	78°49.4′	2192
22	43°26.7′	2530	–	–	35°53.7′	2301	62°10.2′	2338	79°25.6′	2192
23	42°53.2′	2530	–	–	36°29.1′	2297	62°45.3′	2336	80°01.8′	2192

Sat Oct 6, 2018 UTC

UTC	−Sun		+Pollux		+Procyon		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	42°19.7′	2531	37°04.4′	2294	38°35.2′	2613	63°20.3′	2334
1	41°46.2′	2532	37°39.8′	2291	39°08.1′	2602	63°55.4′	2332
2	41°12.7′	2532	38°15.2′	2288	39°41.1′	2591	64°30.4′	2331
3	40°39.2′	2533	38°50.6′	2285	40°14.1′	2581	65°05.5′	2329
4	40°05.7′	2534	39°26.1′	2283	40°47.2′	2572	65°40.6′	2328
5	39°32.2′	2535	40°01.5′	2281	41°20.4′	2563	66°15.7′	2327
6	38°58.7′	2536	40°37.0′	2278	41°53.7′	2554	66°50.8′	2325
7	38°25.3′	2537	41°12.5′	2276	42°27.0′	2546	67°25.9′	2324
8	37°51.8′	2538	41°48.1′	2274	43°00.4′	2538	68°01.1′	2323
9	37°18.4′	2539	42°23.6′	2273	43°33.8′	2531	68°36.2′	2322
10	36°44.9′	2541	42°59.2′	2271	44°07.3′	2523	69°11.4′	2322
11	36°11.5′	2542	43°34.7′	2270	44°40.9′	2517	69°46.5′	2321
12	35°38.1′	2544	44°10.3′	2268	45°14.5′	2510	70°21.7′	2320
13	35°04.7′	2545	44°45.9′	2267	45°48.1′	2504	70°56.9′	2320
14	34°31.3′	2547	45°21.5′	2266	46°21.9′	2498	71°32.0′	2319
15	33°57.9′	2549	45°57.1′	2265	46°55.6′	2493	72°07.2′	2319
16	33°24.5′	2551	46°32.7′	2264	47°29.4′	2488	72°42.4′	2319
17	32°51.2′	2553	47°08.3′	2263	48°03.2′	2483	73°17.6′	2318
18	32°17.9′	2556	47°44.0′	2262	48°37.1′	2478	73°52.7′	2318
19	31°44.6′	2558	48°19.6′	2262	49°11.0′	2474	74°27.9′	2318
20	31°11.3′	2561	48°55.3′	2261	49°45.0′	2469	75°03.1′	2318
21	30°38.0′	2564	49°30.9′	2261	50°19.0′	2465	75°38.3′	2318
22	30°04.8′	2567	50°06.6′	2260	50°53.0′	2462	76°13.5′	2318
23	29°31.5′	2570	50°42.2′	2260	51°27.0′	2458	76°48.7′	2319

Sun Oct 7, 2018 UTC

UTC	+Regulus		+Pollux		+Procyon		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	15°03.9'	2229	51°17.9'	2260	52°01.1'	2455	77°23.8'	2319
1	15°39.8'	2228	51°53.5'	2260	52°35.2'	2452	77°59.0'	2320
2	16°15.8'	2227	52°29.2'	2260	53°09.3'	2449	78°34.2'	2320
3	16°51.7'	2226	53°04.8'	2260	53°43.4'	2446	79°09.3'	2321
4	17°27.6'	2226	53°40.5'	2260	54°17.6'	2444	79°44.5'	2321
5	18°03.6'	2226	54°16.2'	2261	54°51.8'	2441	80°19.7'	2322
6	18°39.5'	2226	54°51.8'	2261	55°26.0'	2439	80°54.8'	2323
7	19°15.5'	2226	55°27.5'	2262	56°00.2'	2437	81°30.0'	2324
8	19°51.4'	2226	56°03.1'	2262	56°34.4'	2435	82°05.1'	2325
9	20°27.3'	2226	56°38.7'	2263	57°08.7'	2434	82°40.2'	2326
10	21°03.3'	2227	57°14.4'	2264	57°42.9'	2432	83°15.3'	2327
11	21°39.2'	2227	57°50.0'	2264	58°17.2'	2431	83°50.5'	2329
12	22°15.1'	2228	58°25.6'	2265	58°51.5'	2430	84°25.6'	2330
13	22°51.0'	2229	59°01.2'	2266	59°25.8'	2429	85°00.6'	2331
14	23°27.0'	2230	59°36.9'	2267	60°00.1'	2428	85°35.7'	2333
15	24°02.9'	2231	60°12.5'	2268	60°34.4'	2427	86°10.8'	2334
16	24°38.8'	2233	60°48.0'	2269	61°08.7'	2426	86°45.8'	2336
17	25°14.6'	2234	61°23.6'	2271	61°43.0'	2426	87°20.9'	2338
18	25°50.5'	2235	61°59.2'	2272	62°17.3'	2426	87°55.9'	2339
19	26°26.4'	2237	62°34.7'	2273	62°51.6'	2425	88°30.9'	2341
20	27°02.2'	2238	63°10.3'	2275	63°26.0'	2425	89°05.9'	2343
21	27°38.1'	2240	63°45.8'	2276	64°00.3'	2425	89°40.9'	2345
22	28°13.9'	2242	64°21.4'	2278	64°34.6'	2425	90°15.9'	2347
23	28°49.7'	2243	64°56.9'	2280	65°09.0'	2426	90°50.8'	2350

Mon Oct 8, 2018 UTC

UTC	+Regulus		+Pollux		+Procyon		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	29°25.5'	2245	65°32.4'	2282	65°43.3'	2426	91°25.7'	2352
1	30°01.3'	2247	66°07.8'	2283	66°17.6'	2427	92°00.6'	2354
2	30°37.0'	2249	66°43.3'	2285	66°51.9'	2427	92°35.5'	2357
3	31°12.8'	2251	67°18.8'	2287	67°26.2'	2428	93°10.4'	2359
4	31°48.5'	2253	67°54.2'	2289	68°00.5'	2429	93°45.3'	2362
5	32°24.2'	2256	68°29.6'	2291	68°34.8'	2430	94°20.1'	2364
6	32°59.9'	2258	69°05.0'	2293	69°09.1'	2431	94°54.9'	2367
7	33°35.6'	2260	69°40.4'	2296	69°43.4'	2432	95°29.7'	2370
8	34°11.2'	2263	70°15.8'	2298	70°17.7'	2434	96°04.5'	2373
9	34°46.9'	2265	70°51.1'	2300	70°51.9'	2435	96°39.2'	2376
10	35°22.5'	2268	71°26.4'	2303	71°26.2'	2436	97°13.9'	2379
11	35°58.1'	2270	72°01.7'	2305	72°00.4'	2438	97°48.6'	2382
12	36°33.7'	2273	72°37.0'	2308	72°34.6'	2440	98°23.3'	2385
13	37°09.2'	2276	73°12.3'	2310	73°08.8'	2442	98°57.9'	2388
14	37°44.7'	2278	73°47.5'	2313	73°43.0'	2443	99°32.6'	2392
15	38°20.3'	2281	74°22.8'	2316	74°17.2'	2445	100°07.1'	2395
16	38°55.7'	2284	74°58.0'	2319	74°51.4'	2447	100°41.7'	2399
17	39°31.2'	2287	75°33.2'	2321	75°25.5'	2450	101°16.2'	2402
18	40°06.6'	2290	76°08.3'	2324	75°59.7'	2452	101°50.8'	2406
19	40°42.0'	2293	76°43.4'	2327	76°33.8'	2454	102°25.2'	2409
20	41°17.4'	2296	77°18.6'	2330	77°07.9'	2457	102°59.7'	2413
21	41°52.8'	2299	77°53.6'	2333	77°42.0'	2459	103°34.1'	2417
22	42°28.1'	2302	78°28.7'	2336	78°16.0'	2462	104°08.5'	2421
23	43°03.5'	2306	79°03.7'	2340	78°50.1'	2465	104°42.9'	2425

Wed Oct 10, 2018 UTC

UTC	−Jupiter		−Antares		−Saturn		−Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	26°30.3′	2514	43°26.0′	2504	65°53.0′	2418	102°24.3′	2548
1	25°56.7′	2521	42°52.3′	2511	65°18.6′	2422	101°50.9′	2553
2	25°23.1′	2528	42°18.6′	2518	64°44.2′	2427	101°17.6′	2557
3	24°49.6′	2535	41°45.0′	2525	64°09.9′	2431	100°44.3′	2562
4	24°16.1′	2542	41°11.5′	2532	63°35.6′	2436	100°11.0′	2567
5	23°42.7′	2550	40°38.0′	2539	63°01.4′	2440	99°37.8′	2571
6	23°09.4′	2558	40°04.5′	2546	62°27.2′	2445	99°04.6′	2576
7	22°36.1′	2566	39°31.1′	2554	61°53.0′	2450	98°31.5′	2581
8	22°02.8′	2574	38°57.8′	2561	61°18.9′	2454	97°58.3′	2586
9	21°29.7′	2582	38°24.5′	2569	60°44.8′	2459	97°25.3′	2591
10	20°56.6′	2591	37°51.3′	2577	60°10.7′	2464	96°52.2′	2595
11	20°23.5′	2601	37°18.2′	2586	59°36.7′	2469	96°19.2′	2600
12	19°50.6′	2610	36°45.1′	2594	59°02.7′	2473	95°46.2′	2605
13	19°17.7′	2621	36°12.1′	2603	58°28.8′	2478	95°13.3′	2610
14	18°44.8′	2631	35°39.1′	2611	57°54.9′	2483	94°40.4′	2615
15	18°12.1′	2643	35°06.3′	2620	57°21.0′	2488	94°07.6′	2620
16	17°39.5′	2655	34°33.4′	2630	56°47.2′	2493	93°34.7′	2625
17	17°06.9′	2667	34°00.7′	2639	56°13.4′	2498	93°02.0′	2630
18	16°34.4′	2681	33°28.0′	2649	55°39.6′	2503	92°29.2′	2635
19	16°02.1′	2695	32°55.4′	2659	55°05.9′	2508	91°56.5′	2641
20	15°29.8′	2710	32°22.9′	2669	54°32.2′	2513	91°23.8′	2646
21	14°57.7′	2727	31°50.4′	2680	53°58.6′	2518	90°51.2′	2651
22	14°25.6′	2745	31°18.1′	2691	53°24.9′	2523	90°18.6′	2656
23	13°53.7′	2765	30°45.8′	2702	52°51.4′	2528	89°46.1′	2661

Thu Oct 11, 2018 UTC

UTC	−Jupiter		−Antares		−Saturn		−Mars		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	13°22.0′	2786	30°13.6′	2714	52°17.9′	2533	89°13.6′	2666	30°13.7′	5423
1	12°50.4′	2810	29°41.4′	2726	51°44.4′	2538	88°41.1′	2672	30°31.0′	5326
2	12°19.0′	2836	29°09.4′	2738	51°10.9′	2543	88°08.7′	2677	30°48.6′	5234
3	11°47.8′	2865	28°37.5′	2751	50°37.5′	2548	87°36.3′	2682	31°06.5′	5147
4	11°16.7′	2898	28°05.6′	2765	50°04.1′	2553	87°03.9′	2687	31°24.9′	5065
5	10°45.9′	2935	27°33.9′	2779	49°30.8′	2558	86°31.6′	2693	31°43.6′	4987
6	10°15.4′	2977	27°02.2′	2793	48°57.5′	2564	85°59.3′	2698	32°02.6′	4913
7	9°45.2′	3026	26°30.7′	2808	48°24.3′	2569	85°27.1′	2703	32°22.0′	4843
8	9°15.3′	3083	25°59.3′	2824	47°51.1′	2574	84°54.9′	2709	32°41.6′	4777
9	8°45.8′	3150	25°28.0′	2840	47°17.9′	2579	84°22.7′	2714	33°01.6′	4714
10	8°16.7′	3229	24°56.8′	2857	46°44.8′	2584	83°50.6′	2719	33°21.9′	4654
11	7°48.2′	3324	24°25.7′	2875	46°11.7′	2590	83°18.5′	2725	33°42.4′	4597
12	7°20.3′	3440	23°54.7′	2894	45°38.6′	2595	82°46.5′	2730	34°03.2′	4543
13	–	–	23°23.9′	2914	45°05.6′	2600	82°14.5′	2736	34°24.3′	4491
14	–	–	22°53.2′	2935	44°32.6′	2605	81°42.5′	2741	34°45.7′	4442
15	–	–	22°22.7′	2957	43°59.7′	2611	81°10.6′	2746	35°07.2′	4396
16	–	–	21°52.3′	2980	43°26.8′	2616	80°38.7′	2752	35°29.0′	4351
17	–	–	21°22.1′	3005	42°54.0′	2621	80°06.9′	2757	35°51.1′	4309
18	–	–	20°52.1′	3031	42°21.1′	2627	79°35.1′	2763	36°13.3′	4269
19	–	–	20°22.2′	3058	41°48.4′	2632	79°03.3′	2768	36°35.8′	4231
20	–	–	19°52.6′	3088	41°15.6′	2637	78°31.6′	2774	36°58.4′	4194
21	–	–	19°23.1′	3120	40°43.0′	2643	77°59.9′	2779	37°21.3′	4159
22	–	–	18°53.8′	3154	40°10.3′	2648	77°28.3′	2785	37°44.3′	4126
23	–	–	18°24.8′	3190	39°37.7′	2653	76°56.7′	2790	38°07.5′	4095

Fri Oct 12, 2018 UTC

UTC	-Saturn		-Antares		-Mars		+Venus		-Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	39°05.1'	2659	17°56.0'	3230	76°25.1'	2795	18°54.3'	3778	68°03.4'	3337
1	38°32.6'	2664	17°27.5'	3272	75°53.6'	2801	19°19.5'	3716	67°35.6'	3348
2	38°00.1'	2669	16°59.3'	3318	75°22.1'	2806	19°45.0'	3659	67°07.8'	3359
3	37°27.7'	2675	16°31.3'	3368	74°50.7'	2812	20°10.8'	3607	66°40.1'	3370
4	36°55.2'	2680	16°03.7'	3422	74°19.3'	2817	20°37.0'	3559	66°12.5'	3381
5	36°22.9'	2685	15°36.4'	3481	73°47.9'	2823	21°03.4'	3515	65°45.0'	3393
6	35°50.5'	2691	15°09.5'	3546	73°16.6'	2828	21°30.1'	3475	65°17.5'	3404
7	35°18.2'	2696	14°43.0'	3617	72°45.3'	2833	21°57.1'	3437	64°50.1'	3416
8	34°46.0'	2701	14°16.9'	3696	72°14.1'	2839	22°24.3'	3403	64°22.8'	3428
9	34°13.8'	2707	13°51.3'	3783	71°42.9'	2844	22°51.7'	3371	63°55.5'	3440
10	33°41.6'	2712	13°26.1'	3879	71°11.7'	2850	23°19.3'	3341	63°28.4'	3453
11	33°09.5'	2718	13°01.6'	3987	70°40.6'	2855	23°47.1'	3314	63°01.3'	3465
12	32°37.4'	2723	12°37.6'	4107	70°09.5'	2861	24°15.1'	3289	62°34.3'	3478
13	32°05.3'	2728	12°14.3'	4242	69°38.4'	2866	24°43.2'	3265	62°07.3'	3491
14	31°33.3'	2734	11°51.7'	4394	69°07.4'	2871	25°11.5'	3244	61°40.5'	3504
15	31°01.4'	2739	-	-	68°36.4'	2877	25°39.9'	3224	61°13.7'	3517
16	30°29.4'	2744	-	-	68°05.5'	2882	26°08.5'	3205	60°47.0'	3531
17	29°57.5'	2750	-	-	67°34.6'	2887	26°37.2'	3188	60°20.4'	3545
18	29°25.7'	2755	-	-	67°03.7'	2893	27°06.0'	3172	59°53.9'	3559
19	28°53.9'	2760	-	-	66°32.9'	2898	27°34.9'	3157	59°27.4'	3573
20	28°22.1'	2766	-	-	66°02.1'	2903	28°03.9'	3143	59°01.1'	3588
21	27°50.3'	2771	-	-	65°31.4'	2909	28°33.0'	3130	58°34.8'	3603
22	27°18.6'	2777	-	-	65°00.7'	2914	29°02.1'	3118	58°08.6'	3618
23	26°47.0'	2782	-	-	64°30.0'	2919	29°31.4'	3107	57°42.5'	3633

Sat Oct 13, 2018 UTC

UTC	+Sun		-Saturn		+Jupiter		+Venus		-Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	48°05.6'	3138	26°15.4'	2787	13°34.8'	3013	30°00.7'	3097	63°59.3'	2924
1	48°34.7'	3143	25°43.8'	2793	14°04.8'	3005	30°30.2'	3087	63°28.7'	2929
2	49°03.8'	3148	25°12.2'	2798	14°34.8'	2998	30°59.6'	3079	62°58.2'	2935
3	49°32.9'	3153	24°40.7'	2804	15°04.9'	2993	31°29.2'	3070	62°27.7'	2940
4	50°01.9'	3158	24°09.3'	2809	15°35.0'	2988	31°58.7'	3063	61°57.2'	2945
5	50°30.9'	3162	23°37.9'	2814	16°05.2'	2984	32°28.4'	3056	61°26.7'	2950
6	50°59.9'	3167	23°06.5'	2820	16°35.4'	2981	32°58.1'	3049	60°56.3'	2955
7	51°28.8'	3172	22°35.1'	2825	17°05.6'	2979	33°27.8'	3043	60°25.9'	2960
8	51°57.7'	3177	22°03.8'	2831	17°35.8'	2977	33°57.6'	3037	59°55.6'	2965
9	52°26.6'	3182	21°32.6'	2836	18°06.0'	2976	34°27.4'	3032	59°25.2'	2970
10	52°55.4'	3187	21°01.3'	2842	18°36.2'	2975	34°57.2'	3027	58°55.0'	2975
11	53°24.2'	3192	20°30.1'	2847	19°06.5'	2975	35°27.1'	3023	58°24.7'	2980
12	53°53.0'	3196	19°59.0'	2853	19°36.7'	2975	35°57.0'	3019	57°54.5'	2985
13	54°21.7'	3201	19°27.9'	2859	20°07.0'	2976	36°27.0'	3015	57°24.3'	2990
14	54°50.4'	3206	18°56.8'	2864	20°37.2'	2976	36°56.9'	3012	56°54.2'	2995
15	55°19.1'	3211	18°25.8'	2870	21°07.4'	2977	37°26.9'	3009	56°24.1'	3000
16	55°47.8'	3215	17°54.8'	2876	21°37.7'	2978	37°57.0'	3006	55°54.0'	3005
17	56°16.4'	3220	17°23.9'	2882	22°07.9'	2980	38°27.0'	3003	55°24.0'	3010
18	56°45.0'	3225	16°53.0'	2888	22°38.1'	2981	38°57.0'	3001	54°54.0'	3015
19	57°13.5'	3229	16°22.1'	2894	23°08.3'	2983	39°27.1'	2998	54°24.0'	3019
20	57°42.1'	3234	15°51.3'	2901	23°38.5'	2985	39°57.2'	2997	53°54.1'	3024
21	58°10.5'	3238	15°20.5'	2907	24°08.7'	2987	40°27.3'	2995	53°24.2'	3029
22	58°39.0'	3243	14°49.8'	2914	24°38.8'	2989	40°57.4'	2993	52°54.3'	3033
23	59°07.4'	3248	14°19.1'	2921	25°09.0'	2991	41°27.5'	2992	52°24.5'	3038

## Sun Oct 14, 2018 UTC

UTC	+Sun		-Saturn		+Jupiter		+Venus		-Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	59°35.9'	3252	13°48.5'	2928	25°39.1'	2994	41°57.6'	2991	51°54.7'	3043
1	60°04.2'	3256	13°17.9'	2935	26°09.2'	2996	42°27.8'	2989	51°24.9'	3047
2	60°32.6'	3261	12°47.4'	2943	26°39.3'	2999	42°57.9'	2988	50°55.1'	3052
3	61°00.9'	3265	12°16.9'	2951	27°09.4'	3001	43°28.1'	2988	50°25.4'	3056
4	61°29.2'	3270	11°46.5'	2960	27°39.5'	3004	43°58.2'	2987	49°55.7'	3061
5	61°57.4'	3274	11°16.2'	2969	28°09.5'	3006	44°28.4'	2986	49°26.1'	3065
6	62°25.7'	3278	10°45.9'	2979	28°39.5'	3009	44°58.5'	2986	48°56.5'	3070
7	62°53.9'	3283	10°15.7'	2990	29°09.5'	3012	45°28.7'	2986	48°26.9'	3074
8	63°22.1'	3287	9°45.5'	3002	29°39.5'	3015	45°58.9'	2985	47°57.3'	3078
9	63°50.2'	3291	9°15.5'	3015	30°09.5'	3018	46°29.1'	2985	47°27.8'	3083
10	64°18.3'	3295	8°45.5'	3030	30°39.5'	3020	46°59.2'	2985	46°58.3'	3087
11	64°46.4'	3299	8°15.6'	3047	31°09.4'	3023	47°29.4'	2985	46°28.8'	3091
12	65°14.5'	3303	7°45.9'	3066	31°39.3'	3026	47°59.6'	2985	45°59.3'	3095
13	65°42.5'	3307	7°16.3'	3089	32°09.2'	3029	48°29.8'	2985	45°29.9'	3099
14	66°10.6'	3311	6°46.8'	3117	32°39.1'	3032	48°59.9'	2985	45°00.5'	3103
15	66°38.5'	3315	6°17.6'	3151	33°08.9'	3035	49°30.1'	2986	44°31.2'	3107
16	67°06.5'	3319	5°48.5'	3193	33°38.7'	3038	50°00.3'	2986	44°01.8'	3111
17	67°34.5'	3323	5°19.7'	3247	34°08.6'	3040	50°30.4'	2986	43°32.5'	3115
18	68°02.4'	3327	4°51.3'	3318	34°38.4'	3043	51°00.6'	2987	43°03.2'	3119
19	68°30.3'	3331	4°23.4'	3415	35°08.1'	3046	51°30.8'	2987	42°34.0'	3123
20	68°58.1'	3334	–	–	35°37.9'	3049	52°00.9'	2988	42°04.7'	3127
21	69°26.0'	3338	–	–	36°07.6'	3052	52°31.1'	2988	41°35.5'	3131
22	69°53.8'	3342	–	–	36°37.3'	3055	53°01.2'	2989	41°06.4'	3135
23	70°21.6'	3345	–	–	37°07.0'	3058	53°31.4'	2989	40°37.2'	3138

## Mon Oct 15, 2018 UTC

UTC	+Sun		+Jupiter		+Antares		-Mars		-Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	70°49.4'	3349	37°36.7'	3060	23°27.1'	3280	40°08.1'	3142	64°49.5'	3243
1	71°17.1'	3353	38°06.3'	3063	23°55.3'	3271	39°39.0'	3146	64°21.0'	3249
2	71°44.8'	3356	38°36.0'	3066	24°23.6'	3263	39°09.9'	3149	63°52.6'	3254
3	72°12.5'	3359	39°05.6'	3069	24°51.9'	3255	38°40.8'	3153	63°24.3'	3260
4	72°40.2'	3363	39°35.2'	3071	25°20.2'	3247	38°11.8'	3156	62°55.9'	3266
5	73°07.9'	3366	40°04.8'	3074	25°48.6'	3241	37°42.8'	3160	62°27.7'	3272
6	73°35.5'	3369	40°34.3'	3077	26°17.1'	3235	37°13.8'	3163	61°59.4'	3277
7	74°03.1'	3373	41°03.9'	3079	26°45.6'	3229	36°44.9'	3167	61°31.2'	3283
8	74°30.7'	3376	41°33.4'	3082	27°14.1'	3224	36°15.9'	3170	61°03.0'	3289
9	74°58.3'	3379	42°02.9'	3084	27°42.7'	3219	35°47.0'	3173	60°34.9'	3295
10	75°25.9'	3382	42°32.4'	3087	28°11.3'	3214	35°18.1'	3177	60°06.8'	3301
11	75°53.4'	3385	43°01.9'	3089	28°39.9'	3210	34°49.2'	3180	59°38.7'	3307
12	76°20.9'	3388	43°31.4'	3092	29°08.5'	3206	34°20.4'	3183	59°10.7'	3313
13	76°48.4'	3391	44°00.8'	3094	29°37.2'	3202	33°51.6'	3186	58°42.7'	3319
14	77°15.9'	3394	44°30.2'	3097	30°05.9'	3199	33°22.7'	3189	58°14.8'	3326
15	77°43.4'	3397	44°59.6'	3099	30°34.6'	3196	32°54.0'	3192	57°46.9'	3332
16	78°10.8'	3400	45°29.0'	3101	31°03.4'	3193	32°25.2'	3195	57°19.1'	3338
17	78°38.2'	3402	45°58.4'	3104	31°32.2'	3190	31°56.4'	3198	56°51.2'	3344
18	79°05.7'	3405	46°27.8'	3106	32°00.9'	3188	31°27.7'	3201	56°23.5'	3351
19	79°33.1'	3408	46°57.1'	3108	32°29.7'	3185	30°59.0'	3204	55°55.7'	3357
20	80°00.4'	3410	47°26.4'	3110	32°58.5'	3183	30°30.3'	3207	55°28.0'	3364
21	80°27.8'	3413	47°55.8'	3112	33°27.4'	3181	30°01.6'	3210	55°00.4'	3370
22	80°55.1'	3415	48°25.1'	3114	33°56.2'	3179	29°33.0'	3212	54°32.8'	3377
23	81°22.5'	3418	48°54.4'	3116	34°25.1'	3178	29°04.3'	3215	54°05.2'	3384

Tue Oct 16, 2018 UTC

UTC	+Sun		+Saturn		-Mars		+Antares		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	81°49.8'	3420	10°39.2'	3109	28°35.7'	3218	34°53.9'	3176	49°23.6'	3118
1	82°17.1'	3422	11°08.5'	3106	28°07.1'	3220	35°22.8'	3175	49°52.9'	3120
2	82°44.4'	3424	11°37.9'	3104	27°38.5'	3223	35°51.7'	3173	50°22.1'	3122
3	83°11.6'	3427	12°07.2'	3102	27°10.0'	3226	36°20.6'	3172	50°51.4'	3124
4	83°38.9'	3429	12°36.6'	3100	26°41.4'	3228	36°49.5'	3171	51°20.6'	3126
5	84°06.1'	3431	13°06.0'	3099	26°12.9'	3231	37°18.4'	3169	51°49.8'	3127
6	84°33.4'	3433	13°35.4'	3098	25°44.4'	3233	37°47.3'	3168	52°19.0'	3129
7	85°00.6'	3435	14°04.8'	3097	25°15.9'	3235	38°16.3'	3167	52°48.2'	3131
8	85°27.8'	3437	14°34.2'	3097	24°47.4'	3238	38°45.2'	3166	53°17.4'	3132
9	85°55.0'	3439	15°03.6'	3097	24°18.9'	3240	39°14.1'	3165	53°46.6'	3134
10	86°22.2'	3440	15°33.0'	3096	23°50.5'	3243	39°43.1'	3165	54°15.7'	3135
11	86°49.3'	3442	16°02.4'	3096	23°22.0'	3245	40°12.0'	3164	54°44.9'	3137
12	87°16.5'	3444	16°31.8'	3096	22°53.6'	3247	40°41.0'	3163	55°14.0'	3138
13	87°43.7'	3446	17°01.2'	3096	22°25.2'	3250	41°10.0'	3162	55°43.1'	3140
14	88°10.8'	3447	17°30.7'	3097	21°56.8'	3252	41°38.9'	3161	56°12.3'	3141
15	88°37.9'	3449	18°00.1'	3097	21°28.4'	3254	42°07.9'	3161	56°41.4'	3142
16	89°05.0'	3450	18°29.5'	3097	21°00.1'	3256	42°36.9'	3160	57°10.5'	3143
17	89°32.2'	3451	18°58.9'	3097	20°31.7'	3259	43°05.9'	3159	57°39.6'	3145
18	89°59.3'	3453	19°28.3'	3098	20°03.4'	3261	43°34.8'	3159	58°08.7'	3146
19	90°26.3'	3454	19°57.7'	3098	19°35.1'	3263	44°03.8'	3158	58°37.7'	3147
20	90°53.4'	3455	20°27.1'	3098	19°06.8'	3266	44°32.8'	3157	59°06.8'	3148
21	91°20.5'	3457	20°56.5'	3099	18°38.5'	3268	45°01.8'	3157	59°35.9'	3149
22	91°47.6'	3458	21°25.9'	3099	18°10.2'	3270	45°30.8'	3156	60°04.9'	3150
23	92°14.6'	3459	21°55.3'	3099	17°41.9'	3273	45°59.8'	3156	60°34.0'	3150

Wed Oct 17, 2018 UTC

UTC	+Sun		+Saturn		-Mars		+Antares		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	92°41.7'	3460	22°24.7'	3100	17°13.7'	3275	46°28.9'	3155	61°03.0'	3151
1	93°08.8'	3461	22°54.0'	3100	16°45.5'	3278	46°57.9'	3154	61°32.1'	3152
2	93°35.8'	3462	23°23.4'	3100	16°17.3'	3280	47°26.9'	3154	62°01.1'	3153
3	94°02.8'	3462	23°52.8'	3100	15°49.1'	3283	47°55.9'	3153	62°30.1'	3153
4	94°29.9'	3463	24°22.2'	3101	15°20.9'	3286	48°25.0'	3152	62°59.2'	3154
5	94°56.9'	3464	24°51.6'	3101	14°52.8'	3289	48°54.0'	3152	63°28.2'	3154
6	95°23.9'	3464	25°21.0'	3101	14°24.6'	3292	49°23.0'	3151	63°57.2'	3155
7	95°50.9'	3465	25°50.3'	3101	13°56.5'	3296	49°52.1'	3150	64°26.2'	3155
8	96°18.0'	3466	26°19.7'	3101	13°28.4'	3299	50°21.1'	3149	64°55.3'	3156
9	96°45.0'	3466	26°49.1'	3101	13°00.3'	3303	50°50.2'	3149	65°24.3'	3156
10	97°12.0'	3467	27°18.5'	3101	12°32.3'	3307	51°19.2'	3148	65°53.3'	3156
11	97°39.0'	3467	27°47.9'	3101	12°04.3'	3312	51°48.3'	3147	66°22.3'	3156
12	98°06.0'	3467	28°17.2'	3101	11°36.3'	3317	52°17.4'	3146	66°51.3'	3157
13	98°33.0'	3467	28°46.6'	3101	11°08.3'	3323	52°46.5'	3146	67°20.3'	3157
14	99°00.0'	3468	29°16.0'	3101	10°40.4'	3329	53°15.5'	3145	67°49.3'	3157
15	99°27.0'	3468	29°45.4'	3101	10°12.5'	3337	53°44.6'	3144	68°18.3'	3157
16	99°54.0'	3468	30°14.8'	3101	9°44.7'	3345	54°13.7'	3143	68°47.3'	3157
17	100°21.0'	3468	30°44.1'	3100	9°16.9'	3355	54°42.8'	3142	69°16.3'	3157
18	100°48.0'	3468	31°13.5'	3100	8°49.2'	3366	55°11.9'	3141	69°45.3'	3157
19	101°15.0'	3468	31°42.9'	3100	8°21.6'	3379	55°41.0'	3140	70°14.3'	3156
20	101°42.0'	3468	32°12.3'	3099	7°54.0'	3394	56°10.1'	3139	70°43.3'	3156
21	102°09.0'	3468	32°41.7'	3099	7°26.6'	3413	56°39.3'	3138	71°12.4'	3156
22	102°36.0'	3467	33°11.1'	3099	6°59.2'	3436	57°08.4'	3137	71°41.4'	3155
23	103°03.0'	3467	33°40.5'	3098	6°32.0'	3463	57°37.5'	3136	72°10.4'	3155



Thu Oct 18, 2018 UTC

UTC	+Sun		-Mars		+Saturn		+Antares		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	103°30.0'	3467	6°05.0'	3498	34°09.9'	3098	58°06.7'	3135	72°39.4'	3155
1	103°57.0'	3466	5°38.2'	3542	34°39.3'	3097	58°35.8'	3134	73°08.4'	3154
2	104°24.0'	3466	5°11.6'	3599	35°08.7'	3096	59°05.0'	3132	73°37.4'	3153
3	104°51.1'	3465	4°45.4'	3675	35°38.1'	3096	59°34.2'	3131	74°06.5'	3153
4	105°18.1'	3465	4°19.7'	3778	36°07.5'	3095	60°03.3'	3130	74°35.5'	3152
5	105°45.1'	3464	-	-	36°36.9'	3094	60°32.5'	3129	75°04.5'	3151
6	106°12.1'	3463	-	-	37°06.4'	3093	61°01.7'	3127	75°33.6'	3151
7	106°39.1'	3463	-	-	37°35.8'	3092	61°30.9'	3126	76°02.6'	3150
8	107°06.2'	3462	-	-	38°05.2'	3091	62°00.1'	3124	76°31.7'	3149
9	107°33.2'	3461	-	-	38°34.7'	3090	62°29.4'	3123	77°00.7'	3148
10	108°00.3'	3460	-	-	39°04.1'	3089	62°58.6'	3122	77°29.8'	3147
11	108°27.3'	3459	-	-	39°33.6'	3088	63°27.8'	3120	77°58.9'	3146
12	108°54.4'	3458	-	-	40°03.0'	3087	63°57.1'	3119	78°27.9'	3145
13	109°21.4'	3457	-	-	40°32.5'	3086	64°26.3'	3117	78°57.0'	3144
14	109°48.5'	3456	-	-	41°02.0'	3085	64°55.6'	3115	79°26.1'	3143
15	110°15.6'	3455	-	-	41°31.5'	3084	65°24.9'	3114	79°55.2'	3142
16	110°42.6'	3454	-	-	42°01.0'	3082	65°54.2'	3112	80°24.3'	3140
17	111°09.7'	3452	-	-	42°30.5'	3081	66°23.5'	3110	80°53.4'	3139
18	111°36.8'	3451	-	-	43°00.0'	3080	66°52.8'	3109	81°22.6'	3138
19	112°03.9'	3450	-	-	43°29.5'	3078	67°22.1'	3107	81°51.7'	3136
20	112°31.1'	3448	4°09.2'	3697	43°59.1'	3077	67°51.5'	3105	82°20.8'	3135
21	112°58.2'	3447	4°34.8'	3609	44°28.6'	3075	68°20.8'	3103	82°50.0'	3133
22	113°25.3'	3445	5°01.0'	3543	44°58.2'	3074	68°50.2'	3101	83°19.1'	3132
23	113°52.4'	3444	5°27.5'	3492	45°27.7'	3072	69°19.6'	3099	83°48.3'	3130

Fri Oct 19, 2018 UTC

UTC	+Sun		+Mars		+Saturn		+Antares		-Aldebaran	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	114°19.6'	3442	5°54.3'	3452	45°57.3'	3070	69°49.0'	3097	109°54.2'	3044
1	114°46.8'	3440	6°21.4'	3419	46°26.9'	3069	70°18.4'	3095	109°24.5'	3042
2	115°13.9'	3439	6°48.7'	3393	46°56.5'	3067	70°47.8'	3093	108°54.7'	3041
3	115°41.1'	3437	7°16.2'	3371	47°26.1'	3065	71°17.2'	3091	108°24.9'	3039
4	116°08.3'	3435	7°43.8'	3352	47°55.7'	3063	71°46.7'	3089	107°55.1'	3037
5	116°35.5'	3433	8°11.6'	3336	48°25.4'	3061	72°16.1'	3087	107°25.3'	3035
6	117°02.7'	3432	8°39.4'	3322	48°55.0'	3059	72°45.6'	3085	106°55.4'	3033
7	117°30.0'	3430	9°07.3'	3310	49°24.7'	3057	73°15.1'	3083	106°25.6'	3031
8	117°57.2'	3428	9°35.3'	3299	49°54.4'	3055	73°44.6'	3080	105°55.7'	3029
9	118°24.4'	3426	10°03.4'	3290	50°24.1'	3053	74°14.1'	3078	105°25.9'	3027
10	118°51.7'	3424	10°31.5'	3281	50°53.8'	3051	74°43.7'	3076	104°56.0'	3025
11	119°19.0'	3421	10°59.7'	3273	51°23.5'	3049	75°13.2'	3073	104°26.1'	3023
12	119°46.3'	3419	11°27.9'	3266	51°53.2'	3047	75°42.8'	3071	103°56.2'	3021
13	120°13.6'	3417	11°56.2'	3259	52°23.0'	3045	76°12.4'	3069	103°26.3'	3019
14	120°40.9'	3415	12°24.6'	3253	52°52.7'	3042	76°42.0'	3066	102°56.3'	3017
15	121°08.2'	3413	12°52.9'	3247	53°22.5'	3040	77°11.6'	3064	102°26.4'	3014
16	121°35.6'	3410	13°21.3'	3242	53°52.3'	3038	77°41.2'	3061	101°56.4'	3012
17	122°02.9'	3408	13°49.8'	3236	54°22.1'	3035	78°10.9'	3059	101°26.4'	3010
18	122°30.3'	3406	14°18.3'	3231	54°51.9'	3033	78°40.5'	3056	100°56.4'	3007
19	122°57.7'	3403	14°46.8'	3226	55°21.8'	3030	79°10.2'	3053	100°26.4'	3005
20	123°25.1'	3401	15°15.3'	3222	55°51.7'	3028	79°39.9'	3051	99°56.3'	3002
21	123°52.5'	3398	15°43.9'	3217	56°21.5'	3025	80°09.6'	3048	99°26.3'	3000
22	124°20.0'	3396	16°12.5'	3213	56°51.4'	3023	80°39.4'	3045	98°56.2'	2997
23	124°47.4'	3393	16°41.1'	3209	57°21.3'	3020	81°09.1'	3043	98°26.1'	2995

## Sat Oct 20, 2018 UTC

UTC	+Mars		+Saturn		+Antares		-Aldebaran		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	17°09.8'	3204	57°51.3'	3017	81°38.9'	3040	97°56.0'	2992	96°01.9'	3076
1	17°38.5'	3200	58°21.2'	3015	82°08.7'	3037	97°25.9'	2989	96°31.5'	3073
2	18°07.2'	3196	58°51.2'	3012	82°38.5'	3034	96°55.7'	2987	97°01.1'	3070
3	18°35.9'	3192	59°21.2'	3009	83°08.4'	3031	96°25.6'	2984	97°30.6'	3068
4	19°04.7'	3188	59°51.2'	3006	83°38.2'	3028	95°55.4'	2981	98°00.2'	3065
5	19°33.5'	3184	60°21.2'	3004	84°08.1'	3026	95°25.2'	2978	98°29.9'	3062
6	20°02.3'	3181	60°51.3'	3001	84°38.0'	3023	94°55.0'	2975	98°59.5'	3059
7	20°31.2'	3177	61°21.3'	2998	85°07.9'	3020	94°24.7'	2972	99°29.2'	3056
8	21°00.0'	3173	61°51.4'	2995	85°37.8'	3017	93°54.4'	2970	99°58.9'	3053
9	21°28.9'	3169	62°21.5'	2992	86°07.8'	3014	93°24.2'	2967	100°28.6'	3050
10	21°57.8'	3165	62°51.7'	2989	86°37.8'	3011	92°53.9'	2964	100°58.3'	3047
11	22°26.8'	3162	63°21.8'	2986	87°07.8'	3008	92°23.5'	2961	101°28.0'	3044
12	22°55.8'	3158	63°52.0'	2983	87°37.8'	3004	91°53.2'	2957	101°57.8'	3041
13	23°24.8'	3154	64°22.2'	2980	88°07.8'	3001	91°22.8'	2954	102°27.6'	3038
14	23°53.8'	3150	64°52.4'	2976	88°37.9'	2998	90°52.4'	2951	102°57.4'	3035
15	24°22.8'	3147	65°22.6'	2973	89°08.0'	2995	90°22.0'	2948	103°27.2'	3032
16	24°51.9'	3143	65°52.9'	2970	89°38.1'	2992	89°51.6'	2945	103°57.1'	3029
17	25°21.0'	3139	66°23.1'	2967	90°08.2'	2989	89°21.1'	2942	104°26.9'	3026
18	25°50.1'	3135	66°53.4'	2964	90°38.4'	2985	88°50.7'	2938	104°56.8'	3022
19	26°19.3'	3132	67°23.8'	2960	91°08.5'	2982	88°20.2'	2935	105°26.8'	3019
20	26°48.4'	3128	67°54.1'	2957	91°38.7'	2979	87°49.6'	2932	105°56.7'	3016
21	27°17.6'	3124	68°24.5'	2954	92°09.0'	2975	87°19.1'	2929	106°26.7'	3012
22	27°46.9'	3120	68°54.9'	2950	92°39.2'	2972	86°48.5'	2925	106°56.6'	3009
23	28°16.1'	3116	69°25.3'	2947	93°09.5'	2969	86°17.9'	2922	107°26.7'	3006

## Sun Oct 21, 2018 UTC

UTC	+Mars		+Saturn		-Aldebaran		+Antares		-Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	28°45.4'	3113	69°55.7'	2943	85°47.3'	2918	93°39.8'	2965	103°28.2'	3041
1	29°14.7'	3109	70°26.2'	2940	85°16.7'	2915	94°10.1'	2962	102°58.4'	3037
2	29°44.0'	3105	70°56.7'	2936	84°46.0'	2912	94°40.4'	2959	102°28.6'	3033
3	30°13.4'	3101	71°27.2'	2933	84°15.3'	2908	95°10.8'	2955	101°58.7'	3029
4	30°42.8'	3097	71°57.8'	2929	83°44.6'	2905	95°41.1'	2952	101°28.8'	3025
5	31°12.2'	3093	72°28.3'	2926	83°13.9'	2901	96°11.5'	2948	100°58.9'	3021
6	31°41.6'	3090	72°58.9'	2922	82°43.1'	2897	96°42.0'	2945	100°29.0'	3017
7	32°11.1'	3086	73°29.5'	2919	82°12.3'	2894	97°12.4'	2941	99°59.1'	3013
8	32°40.5'	3082	74°00.2'	2915	81°41.5'	2890	97°42.9'	2938	99°29.1'	3009
9	33°10.0'	3078	74°30.8'	2911	81°10.6'	2887	98°13.4'	2934	98°59.1'	3005
10	33°39.6'	3074	75°01.5'	2908	80°39.8'	2883	98°43.9'	2931	98°29.0'	3001
11	34°09.1'	3070	75°32.2'	2904	80°08.9'	2879	99°14.5'	2927	97°59.0'	2997
12	34°38.7'	3066	76°03.0'	2900	79°38.0'	2876	99°45.1'	2924	97°28.9'	2993
13	35°08.4'	3062	76°33.7'	2897	79°07.0'	2872	100°15.7'	2920	96°58.8'	2989
14	35°38.0'	3058	77°04.5'	2893	78°36.1'	2868	100°46.3'	2917	96°28.6'	2985
15	36°07.7'	3054	77°35.4'	2889	78°05.1'	2865	101°17.0'	2913	95°58.4'	2981
16	36°37.4'	3050	78°06.2'	2885	77°34.0'	2861	101°47.6'	2910	95°28.2'	2977
17	37°07.1'	3046	78°37.1'	2882	77°03.0'	2857	102°18.3'	2906	94°58.0'	2974
18	37°36.9'	3042	79°08.0'	2878	76°31.9'	2853	102°49.1'	2902	94°27.8'	2970
19	38°06.6'	3038	79°38.9'	2874	76°00.8'	2849	103°19.8'	2899	93°57.5'	2966
20	38°36.5'	3034	80°09.9'	2870	75°29.7'	2846	103°50.6'	2895	93°27.2'	2962
21	39°06.3'	3030	80°40.8'	2866	74°58.5'	2842	104°21.4'	2892	92°56.8'	2958
22	39°36.2'	3026	81°11.9'	2862	74°27.3'	2838	104°52.2'	2888	92°26.5'	2954
23	40°06.1'	3021	81°42.9'	2859	73°56.1'	2834	105°23.1'	2884	91°56.1'	2950

Mon Oct 22, 2018 UTC

UTC	+Mars		-Aldebaran		+Saturn		-Betelgeuse		+Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	40°36.0'	3017	73°24.9'	2830	82°14.0'	2855	91°25.6'	2946	105°54.0'	2881
1	41°05.9'	3013	72°53.6'	2826	82°45.1'	2851	90°55.2'	2942	106°24.9'	2877
2	41°35.9'	3009	72°22.3'	2822	83°16.2'	2847	90°24.7'	2938	106°55.8'	2873
3	42°05.9'	3005	71°51.0'	2819	83°47.3'	2843	89°54.2'	2934	107°26.8'	2870
4	42°36.0'	3001	71°19.6'	2815	84°18.5'	2839	89°23.7'	2930	107°57.8'	2866
5	43°06.0'	2997	70°48.2'	2811	84°49.7'	2835	88°53.1'	2926	108°28.8'	2863
6	43°36.1'	2993	70°16.8'	2807	85°21.0'	2831	88°22.6'	2923	108°59.8'	2859
7	44°06.2'	2988	69°45.4'	2803	85°52.2'	2827	87°51.9'	2919	109°30.9'	2855
8	44°36.4'	2984	69°13.9'	2799	86°23.5'	2823	87°21.3'	2915	110°02.0'	2852
9	45°06.6'	2980	68°42.4'	2795	86°54.8'	2819	86°50.6'	2911	110°33.1'	2848
10	45°36.8'	2976	68°10.9'	2791	87°26.2'	2815	86°19.9'	2907	111°04.2'	2844
11	46°07.0'	2972	67°39.3'	2787	87°57.6'	2811	85°49.2'	2903	111°35.4'	2841
12	46°37.3'	2968	67°07.8'	2783	88°29.0'	2807	85°18.5'	2899	112°06.6'	2837
13	47°07.6'	2963	66°36.1'	2779	89°00.4'	2803	84°47.7'	2896	112°37.8'	2834
14	47°37.9'	2959	66°04.5'	2775	89°31.9'	2799	84°16.9'	2892	113°09.1'	2830
15	48°08.3'	2955	65°32.8'	2771	90°03.4'	2795	83°46.1'	2888	113°40.3'	2827
16	48°38.6'	2951	65°01.1'	2767	90°34.9'	2791	83°15.2'	2884	114°11.6'	2823
17	49°09.1'	2947	64°29.4'	2763	91°06.4'	2787	82°44.3'	2881	114°43.0'	2819
18	49°39.5'	2942	63°57.6'	2759	91°38.0'	2783	82°13.4'	2877	115°14.3'	2816
19	50°10.0'	2938	63°25.9'	2755	92°09.6'	2779	81°42.5'	2873	115°45.7'	2812
20	50°40.5'	2934	62°54.0'	2751	92°41.3'	2775	81°11.5'	2870	116°17.1'	2809
21	51°11.0'	2930	62°22.2'	2747	93°13.0'	2771	80°40.5'	2866	116°48.5'	2805
22	51°41.6'	2925	61°50.3'	2743	93°44.7'	2767	80°09.5'	2862	117°19.9'	2802
23	52°12.2'	2921	61°18.4'	2739	94°16.4'	2763	79°38.5'	2859	117°51.4'	2798

Tue Oct 23, 2018 UTC

UTC	-Aldebaran		+Mars		+Formalhaut		-Betelgeuse		+Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	60°46.5'	2735	52°42.8'	2917	37°40.1'	3398	79°07.4'	2855	94°48.1'	2759
1	60°14.5'	2731	53°13.4'	2913	38°07.5'	3379	78°36.3'	2851	95°19.9'	2755
2	59°42.5'	2727	53°44.1'	2909	38°35.1'	3359	78°05.2'	2848	95°51.8'	2751
3	59°10.5'	2723	54°14.8'	2904	39°02.8'	3341	77°34.1'	2844	96°23.6'	2747
4	58°38.4'	2719	54°45.6'	2900	39°30.6'	3323	77°02.9'	2841	96°55.5'	2742
5	58°06.3'	2715	55°16.3'	2896	39°58.5'	3305	76°31.7'	2837	97°27.4'	2738
6	57°34.2'	2711	55°47.1'	2892	40°26.5'	3288	76°00.5'	2834	97°59.3'	2734
7	57°02.1'	2707	56°18.0'	2888	40°54.7'	3272	75°29.2'	2831	98°31.3'	2730
8	56°29.9'	2703	56°48.8'	2884	41°22.9'	3256	74°58.0'	2827	99°03.3'	2726
9	55°57.7'	2699	57°19.7'	2879	41°51.3'	3240	74°26.7'	2824	99°35.3'	2722
10	55°25.5'	2695	57°50.6'	2875	42°19.7'	3225	73°55.4'	2821	100°07.4'	2718
11	54°53.2'	2691	58°21.6'	2871	42°48.3'	3210	73°24.0'	2817	100°39.5'	2714
12	54°20.9'	2687	58°52.6'	2867	43°16.9'	3196	72°52.7'	2814	101°11.6'	2710
13	53°48.6'	2683	59°23.6'	2863	43°45.7'	3182	72°21.3'	2811	101°43.7'	2706
14	53°16.3'	2679	59°54.6'	2859	44°14.5'	3168	71°49.9'	2808	102°15.9'	2702
15	52°43.9'	2675	60°25.7'	2854	44°43.4'	3155	71°18.4'	2805	102°48.1'	2698
16	52°11.5'	2671	60°56.8'	2850	45°12.5'	3142	70°47.0'	2801	103°20.3'	2694
17	51°39.0'	2667	61°27.9'	2846	45°41.6'	3129	70°15.5'	2798	103°52.6'	2690
18	51°06.6'	2663	61°59.0'	2842	46°10.7'	3117	69°44.0'	2795	104°24.9'	2686
19	50°34.1'	2659	62°30.2'	2838	46°40.0'	3105	69°12.5'	2792	104°57.2'	2682
20	50°01.5'	2655	63°01.4'	2834	47°09.4'	3093	68°40.9'	2790	105°29.6'	2679
21	49°29.0'	2651	63°32.7'	2830	47°38.8'	3082	68°09.4'	2787	106°02.0'	2675
22	48°56.4'	2648	64°04.0'	2826	48°08.3'	3070	67°37.8'	2784	106°34.4'	2671
23	48°23.8'	2644	64°35.3'	2822	48°37.9'	3059	67°06.2'	2781	107°06.8'	2667

Wed Oct 24, 2018 UTC

UTC	−Aldebaran		−Betelgeuse		+Mars		+Formalhaut		−Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	47°51.1′	2640	66°34.5′	2778	65°06.6′	2818	49°07.6′	3049	92°02.4′	2673
1	47°18.5′	2636	66°02.9′	2776	65°37.9′	2814	49°37.3′	3038	91°30.0′	2669
2	46°45.8′	2632	65°31.2′	2773	66°09.3′	2810	50°07.1′	3028	90°57.5′	2665
3	46°13.0′	2628	64°59.5′	2771	66°40.8′	2806	50°37.0′	3018	90°25.0′	2661
4	45°40.3′	2625	64°27.8′	2768	67°12.2′	2802	51°06.9′	3008	89°52.5′	2657
5	45°07.5′	2621	63°56.1′	2766	67°43.7′	2798	51°37.0′	2998	89°20.0′	2654
6	44°34.7′	2617	63°24.4′	2763	68°15.2′	2794	52°07.0′	2989	88°47.4′	2650
7	44°01.8′	2613	62°52.6′	2761	68°46.7′	2790	52°37.2′	2979	88°14.8′	2646
8	43°29.0′	2610	62°20.9′	2759	69°18.3′	2786	53°07.4′	2970	87°42.2′	2642
9	42°56.1′	2606	61°49.1′	2756	69°49.9′	2782	53°37.7′	2961	87°09.5′	2638
10	42°23.1′	2602	61°17.3′	2754	70°21.5′	2778	54°08.0′	2953	86°36.8′	2635
11	41°50.2′	2599	60°45.4′	2752	70°53.1′	2774	54°38.4′	2944	86°04.1′	2631
12	41°17.2′	2595	60°13.6′	2750	71°24.8′	2771	55°08.9′	2936	85°31.4′	2627
13	40°44.2′	2591	59°41.7′	2748	71°56.5′	2767	55°39.4′	2927	84°58.6′	2624
14	40°11.2′	2588	59°09.9′	2747	72°28.2′	2763	56°10.0′	2919	84°25.8′	2620
15	39°38.1′	2584	58°38.0′	2745	72°60.0′	2759	56°40.6′	2911	83°53.0′	2616
16	39°05.0′	2581	58°06.1′	2743	73°31.8′	2755	57°11.3′	2904	83°20.2′	2613
17	38°31.9′	2577	57°34.2′	2742	74°03.6′	2752	57°42.1′	2896	82°47.3′	2609
18	37°58.7′	2574	57°02.3′	2740	74°35.4′	2748	58°12.9′	2889	82°14.4′	2606
19	37°25.6′	2570	56°30.4′	2739	75°07.3′	2744	58°43.7′	2881	81°41.5′	2602
20	36°52.4′	2567	55°58.4′	2738	75°39.2′	2741	59°14.6′	2874	81°08.5′	2599
21	36°19.1′	2563	55°26.5′	2736	76°11.1′	2737	59°45.6′	2867	80°35.5′	2595
22	35°45.9′	2560	54°54.5′	2735	76°43.1′	2733	60°16.6′	2860	80°02.5′	2592
23	35°12.6′	2556	54°22.6′	2734	77°15.0′	2730	60°47.6′	2853	79°29.5′	2589

Thu Oct 25, 2018 UTC

UTC	−Aldebaran		−Betelgeuse		−Pollux		+Formalhaut		+Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	34°39.3′	2553	53°50.6′	2733	78°56.4′	2585	61°18.7′	2846	77°47.0′	2726
1	34°06.0′	2550	53°18.6′	2733	78°23.3′	2582	61°49.9′	2840	78°19.1′	2722
2	33°32.6′	2546	52°46.7′	2732	77°50.2′	2579	62°21.1′	2833	78°51.1′	2719
3	32°59.2′	2543	52°14.7′	2732	77°17.1′	2575	62°52.4′	2827	79°23.2′	2715
4	32°25.8′	2540	51°42.7′	2731	76°43.9′	2572	63°23.6′	2821	79°55.3′	2712
5	31°52.4′	2537	51°10.7′	2731	76°10.7′	2569	63°55.0′	2815	80°27.5′	2708
6	31°18.9′	2534	50°38.7′	2731	75°37.5′	2566	64°26.4′	2809	80°59.6′	2705
7	30°45.4′	2530	50°06.7′	2731	75°04.3′	2562	64°57.8′	2803	81°31.8′	2702
8	30°11.9′	2527	49°34.7′	2731	74°31.0′	2559	65°29.3′	2797	82°04.0′	2698
9	29°38.4′	2524	49°02.7′	2731	73°57.8′	2556	66°00.8′	2791	82°36.2′	2695
10	29°04.9′	2521	48°30.7′	2732	73°24.5′	2553	66°32.3′	2786	83°08.5′	2691
11	28°31.3′	2518	47°58.7′	2732	72°51.1′	2550	67°03.9′	2780	83°40.8′	2688
12	27°57.7′	2515	47°26.8′	2733	72°17.8′	2547	67°35.6′	2775	84°13.1′	2685
13	27°24.1′	2512	46°54.8′	2734	71°44.4′	2544	68°07.2′	2769	84°45.4′	2681
14	26°50.4′	2509	46°22.8′	2735	71°11.0′	2541	68°38.9′	2764	85°17.8′	2678
15	26°16.7′	2507	45°50.8′	2737	70°37.6′	2538	69°10.7′	2759	85°50.2′	2675
16	25°43.1′	2504	45°18.9′	2738	70°04.1′	2536	69°42.5′	2754	86°22.6′	2672
17	25°09.3′	2501	44°47.0′	2740	69°30.7′	2533	70°14.3′	2749	86°55.0′	2669
18	24°35.6′	2498	44°15.0′	2742	68°57.2′	2530	70°46.2′	2744	87°27.5′	2665
19	24°01.9′	2496	43°43.1′	2744	68°23.7′	2527	71°18.1′	2739	87°60.0′	2662
20	23°28.1′	2493	43°11.2′	2747	67°50.1′	2525	71°50.0′	2735	88°32.5′	2659
21	22°54.3′	2491	42°39.4′	2750	67°16.6′	2522	72°22.0′	2730	89°05.0′	2656
22	22°20.5′	2488	42°07.5′	2753	66°43.0′	2519	72°54.0′	2726	89°37.5′	2653
23	21°46.7′	2486	41°35.7′	2756	66°09.4′	2517	73°26.0′	2721	90°10.1′	2650

Fri Oct 26, 2018 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	21°12.8′	2484	41°03.9′	2759	65°35.8′	2514	66°51.8′	2664	73°58.1′	2717
1	20°38.9′	2482	40°32.1′	2763	65°02.2′	2512	66°19.3′	2663	74°30.2′	2713
2	20°05.1′	2479	40°00.3′	2768	64°28.5′	2509	65°46.8′	2662	75°02.3′	2708
3	19°31.2′	2477	39°28.6′	2772	63°54.9′	2507	65°14.3′	2661	75°34.4′	2704
4	18°57.2′	2475	38°56.9′	2777	63°21.2′	2504	64°41.8′	2660	76°06.6′	2700
5	18°23.3′	2474	38°25.2′	2782	62°47.5′	2502	64°09.3′	2659	76°38.9′	2696
6	17°49.4′	2472	37°53.6′	2788	62°13.7′	2500	63°36.7′	2658	77°11.1′	2692
7	17°15.4′	2470	37°22.0′	2794	61°40.0′	2497	63°04.2′	2657	77°43.4′	2689
8	16°41.4′	2469	36°50.5′	2801	61°06.2′	2495	62°31.7′	2657	78°15.7′	2685
9	16°07.4′	2468	36°19.0′	2808	60°32.5′	2493	61°59.1′	2656	78°48.0′	2681
10	15°33.5′	2467	35°47.6′	2815	59°58.7′	2491	61°26.6′	2656	79°20.4′	2678
11	14°59.5′	2466	35°16.2′	2823	59°24.9′	2489	60°54.0′	2656	79°52.8′	2674
12	14°25.5′	2465	34°44.9′	2832	58°51.0′	2487	60°21.5′	2656	80°25.2′	2671
13	13°51.4′	2465	34°13.6′	2841	58°17.2′	2485	59°48.9′	2656	80°57.6′	2668
14	13°17.4′	2465	33°42.4′	2851	57°43.3′	2483	59°16.4′	2656	81°30.1′	2664
15	12°43.4′	2466	33°11.3′	2861	57°09.5′	2481	58°43.8′	2656	82°02.6′	2661
16	12°09.4′	2467	32°40.3′	2872	56°35.6′	2479	58°11.3′	2656	82°35.1′	2658
17	11°35.4′	2468	32°09.3′	2884	56°01.7′	2478	57°38.7′	2657	83°07.6′	2655
18	11°01.4′	2470	31°38.4′	2897	55°27.8′	2476	57°06.2′	2657	83°40.2′	2652
19	10°27.5′	2474	31°07.6′	2910	54°53.8′	2474	56°33.6′	2658	84°12.8′	2649
20	9°53.5′	2478	30°36.9′	2925	54°19.9′	2473	56°01.1′	2659	84°45.4′	2646
21	9°19.6′	2483	30°06.3′	2940	53°45.9′	2471	55°28.6′	2660	85°18.0′	2644
22	8°45.7′	2490	29°35.8′	2957	53°12.0′	2469	54°56.1′	2661	85°50.6′	2641
23	8°11.9′	2499	29°05.5′	2975	52°38.0′	2468	54°23.5′	2662	86°23.3′	2638

Sat Oct 27, 2018 UTC

UTC	−Aldebaran		−Pollux		−Betelgeuse		−Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	7°38.2′	2511	52°04.0′	2467	28°35.2′	2994	53°51.0′	2664	86°56.0′	2636
1	7°04.5′	2527	51°30.0′	2465	28°05.1′	3014	53°18.6′	2665	87°28.7′	2633
2	6°31.0′	2548	50°56.0′	2464	27°35.1′	3036	52°46.1′	2667	88°01.4′	2631
3	5°57.6′	2576	50°22.0′	2463	27°05.3′	3059	52°13.6′	2669	88°34.1′	2629
4	5°24.4′	2615	49°47.9′	2462	26°35.6′	3084	51°41.2′	2671	89°06.9′	2626
5	4°51.6′	2670	49°13.9′	2461	26°06.1′	3110	51°08.7′	2674	89°39.7′	2624
6	4°19.1′	2752	48°39.8′	2460	25°36.8′	3139	50°36.3′	2676	90°12.4′	2622
7	–	–	48°05.8′	2459	25°07.7′	3170	50°03.9′	2679	90°45.3′	2620
8	–	–	47°31.7′	2458	24°38.8′	3203	49°31.5′	2682	91°18.1′	2618
9	–	–	46°57.7′	2457	24°10.1′	3238	48°59.2′	2685	91°50.9′	2616
10	–	–	46°23.6′	2456	23°41.6′	3276	48°26.8′	2688	92°23.8′	2614
11	–	–	45°49.5′	2456	23°13.4′	3317	47°54.5′	2692	92°56.6′	2613
12	–	–	45°15.4′	2455	22°45.4′	3362	47°22.2′	2696	93°29.5′	2611
13	–	–	44°41.3′	2455	22°17.8′	3409	46°50.0′	2700	94°02.4′	2609
14	–	–	44°07.2′	2454	21°50.4′	3461	46°17.8′	2704	94°35.3′	2608
15	–	–	43°33.1′	2454	21°23.4′	3517	45°45.6′	2709	95°08.2′	2606
16	–	–	42°59.0′	2454	20°56.7′	3578	45°13.4′	2713	95°41.1′	2605
17	–	–	42°24.9′	2454	20°30.3′	3644	44°41.3′	2719	96°14.1′	2604
18	–	–	41°50.8′	2454	20°04.4′	3715	44°09.2′	2724	96°47.0′	2602
19	–	–	41°16.7′	2454	19°38.9′	3793	43°37.2′	2730	97°20.0′	2601
20	4°21.4′	2637	40°42.6′	2454	19°13.9′	3878	43°05.2′	2736	97°52.9′	2600
21	4°54.1′	2579	40°08.5′	2455	18°49.3′	3971	42°33.2′	2743	98°25.9′	2599
22	5°27.3′	2536	39°34.4′	2455	18°25.2′	4072	42°01.3′	2749	98°58.9′	2598
23	6°00.7′	2505	39°00.4′	2456	18°01.8′	4183	41°29.4′	2757	99°31.9′	2597

Sun Oct 28, 2018 UTC

UTC	+Aldebaran		-Pollux		-Procyon		-Regulus		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	6°34.4'	2480	38°26.3'	2456	40°57.6'	2764	73°47.7'	2365	100°04.9'	2596
1	7°08.3'	2461	37°52.2'	2457	40°25.9'	2772	73°12.9'	2364	100°37.9'	2596
2	7°42.4'	2446	37°18.1'	2458	39°54.2'	2781	72°38.1'	2362	101°10.9'	2595
3	8°16.5'	2433	36°44.0'	2459	39°22.6'	2790	72°03.3'	2361	101°43.9'	2594
4	8°50.8'	2422	36°10.0'	2461	38°51.0'	2800	71°28.4'	2359	102°16.9'	2594
5	9°25.1'	2413	35°35.9'	2462	38°19.5'	2810	70°53.6'	2358	102°49.9'	2594
6	9°59.6'	2405	35°01.9'	2464	37°48.1'	2820	70°18.7'	2356	103°22.9'	2593
7	10°34.0'	2398	34°27.9'	2466	37°16.8'	2831	69°43.8'	2355	103°56.0'	2593
8	11°08.6'	2392	33°53.9'	2468	36°45.5'	2843	69°08.9'	2353	104°29.0'	2593
9	11°43.2'	2387	33°19.9'	2470	36°14.3'	2856	68°34.1'	2352	105°02.0'	2593
10	12°17.8'	2382	32°45.9'	2472	35°43.2'	2869	67°59.1'	2351	105°35.0'	2593
11	12°52.5'	2378	32°11.9'	2475	35°12.2'	2883	67°24.2'	2349	106°08.1'	2593
12	13°27.2'	2374	31°38.0'	2478	34°41.3'	2898	66°49.3'	2348	106°41.1'	2593
13	14°01.9'	2370	31°04.1'	2481	34°10.6'	2913	66°14.3'	2347	107°14.1'	2593
14	14°36.7'	2367	30°30.2'	2485	33°39.9'	2930	65°39.4'	2345	107°47.1'	2593
15	15°11.5'	2364	29°56.4'	2489	33°09.3'	2947	65°04.4'	2344	108°20.2'	2594
16	15°46.3'	2361	29°22.5'	2493	32°38.9'	2965	64°29.5'	2343	108°53.2'	2594
17	16°21.1'	2358	28°48.7'	2498	32°08.6'	2985	63°54.5'	2342	109°26.2'	2595
18	16°56.0'	2356	28°15.0'	2502	31°38.4'	3006	63°19.5'	2341	109°59.2'	2596
19	17°30.8'	2354	27°41.3'	2508	31°08.4'	3027	62°44.5'	2340	110°32.2'	2596
20	18°05.7'	2351	27°07.6'	2514	30°38.5'	3051	62°09.5'	2338	111°05.2'	2597
21	18°40.7'	2349	26°33.9'	2520	30°08.8'	3075	61°34.5'	2337	111°38.2'	2598
22	19°15.6'	2347	26°00.4'	2527	29°39.2'	3101	60°59.4'	2336	112°11.2'	2599
23	19°50.5'	2345	25°26.8'	2534	29°09.8'	3129	60°24.4'	2335	112°44.2'	2601

Mon Oct 29, 2018 UTC

UTC	+Aldebaran		-Pollux		-Regulus		-Procyon		+Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	20°25.5'	2344	24°53.3'	2542	59°49.3'	2334	28°40.6'	3158	113°17.1'	2602
1	21°00.5'	2342	24°19.9'	2551	59°14.3'	2333	28°11.6'	3190	113°50.1'	2603
2	21°35.5'	2340	23°46.6'	2560	58°39.2'	2332	27°42.8'	3223	114°23.1'	2605
3	22°10.5'	2339	23°13.3'	2571	58°04.2'	2331	27°14.3'	3259	114°56.0'	2606
4	22°45.5'	2337	22°40.1'	2582	57°29.1'	2330	26°46.0'	3296	115°28.9'	2608
5	23°20.5'	2336	22°07.0'	2594	56°54.0'	2329	26°17.9'	3337	116°01.8'	2610
6	23°55.6'	2334	21°34.0'	2607	56°18.9'	2328	25°50.0'	3380	116°34.7'	2612
7	24°30.6'	2333	21°01.1'	2622	55°43.8'	2327	25°22.5'	3426	117°07.6'	2614
8	25°05.7'	2331	20°28.3'	2638	55°08.7'	2327	24°55.2'	3475	117°40.5'	2616
9	25°40.8'	2330	19°55.6'	2655	54°33.6'	2326	24°28.3'	3528	118°13.3'	2618
10	26°15.9'	2329	19°23.0'	2674	53°58.5'	2325	24°01.6'	3585	118°46.2'	2621
11	26°50.9'	2328	18°50.6'	2695	53°23.3'	2324	23°35.4'	3645	119°19.0'	2623
12	27°26.1'	2327	18°18.3'	2718	52°48.2'	2323	23°09.4'	3710	119°51.8'	2626
13	28°01.2'	2326	17°46.3'	2744	52°13.0'	2323	22°43.9'	3781	120°24.5'	2629
14	28°36.3'	2324	17°14.4'	2772	51°37.9'	2322	22°18.8'	3856	120°57.3'	2632
15	29°11.4'	2323	16°42.7'	2803	51°02.7'	2321	21°54.1'	3938	121°30.0'	2635
16	29°46.6'	2322	16°11.2'	2838	50°27.6'	2321	21°29.9'	4026	122°02.7'	2639
17	30°21.7'	2321	15°40.0'	2877	49°52.4'	2320	21°06.1'	4121	122°35.4'	2642
18	30°56.9'	2321	15°09.1'	2921	49°17.3'	2319	20°42.9'	4224	123°08.1'	2646
19	31°32.0'	2320	14°38.4'	2970	48°42.1'	2319	20°20.2'	4335	123°40.7'	2650
20	32°07.2'	2319	14°08.1'	3025	48°06.9'	2318	19°58.1'	4457	124°13.3'	2654
21	32°42.4'	2318	13°38.2'	3087	47°31.7'	2317	19°36.6'	4589	124°45.9'	2658
22	33°17.6'	2317	13°08.8'	3158	46°56.5'	2317	19°15.7'	4732	125°18.4'	2662
23	33°52.8'	2316	12°39.8'	3239	46°21.3'	2316	18°55.5'	4890	125°50.9'	2667

Tue Oct 30, 2018 UTC

UTC	−Sun		+Aldebaran		−Regulus		−Pollux		+Betelgeuse	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	112°08.9'	2650	34°28.0'	2315	45°46.1'	2316	12°11.3'	3331	21°01.0'	3439
1	111°36.3'	2649	35°03.2'	2315	45°10.9'	2315	11°43.5'	3438	21°28.2'	3381
2	111°03.7'	2649	35°38.4'	2314	44°35.7'	2315	11°16.3'	3561	21°55.7'	3326
3	110°31.1'	2648	36°13.6'	2313	44°00.5'	2314	–	–	22°23.6'	3276
4	109°58.5'	2647	36°48.8'	2313	43°25.3'	2314	–	–	22°51.9'	3229
5	109°25.9'	2646	37°24.0'	2312	42°50.1'	2313	–	–	23°20.4'	3186
6	108°53.3'	2646	37°59.3'	2311	42°14.9'	2313	–	–	23°49.2'	3145
7	108°20.7'	2645	38°34.5'	2311	41°39.6'	2313	–	–	24°18.3'	3107
8	107°48.0'	2644	39°09.8'	2310	41°04.4'	2312	–	–	24°47.6'	3071
9	107°15.4'	2644	39°45.0'	2309	40°29.2'	2312	–	–	25°17.2'	3038
10	106°42.7'	2643	40°20.3'	2309	39°53.9'	2312	–	–	25°47.0'	3007
11	106°10.1'	2643	40°55.5'	2308	39°18.7'	2311	–	–	26°17.0'	2978
12	105°37.4'	2642	41°30.8'	2308	38°43.5'	2311	–	–	26°47.3'	2950
13	105°04.8'	2641	42°06.1'	2307	38°08.2'	2311	–	–	27°17.7'	2925
14	104°32.1'	2641	42°41.3'	2307	37°33.0'	2311	–	–	27°48.3'	2900
15	103°59.5'	2640	43°16.6'	2306	36°57.7'	2310	–	–	28°19.0'	2878
16	103°26.8'	2640	43°51.9'	2306	36°22.5'	2310	–	–	28°50.0'	2856
17	102°54.1'	2639	44°27.2'	2305	35°47.2'	2310	–	–	29°21.1'	2836
18	102°21.5'	2639	45°02.5'	2305	35°12.0'	2310	–	–	29°52.3'	2817
19	101°48.8'	2639	45°37.8'	2304	34°36.7'	2310	–	–	30°23.7'	2799
20	101°16.1'	2638	46°13.0'	2304	34°01.5'	2310	–	–	30°55.1'	2781
21	100°43.4'	2638	46°48.3'	2304	33°26.2'	2310	–	–	31°26.8'	2765
22	100°10.7'	2637	47°23.6'	2303	32°51.0'	2310	–	–	31°58.5'	2750
23	99°38.0'	2637	47°58.9'	2303	32°15.7'	2310	–	–	32°30.4'	2735

Wed Oct 31, 2018 UTC

UTC	−Sun		−Regulus		+Aldebaran		+Betelgeuse		+Rigel	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	99°05.3'	2637	31°40.5'	2310	48°34.3'	2303	33°02.3'	2721	49°51.5'	3283
1	98°32.7'	2636	31°05.2'	2310	49°09.6'	2302	33°34.4'	2708	50°19.7'	3266
2	97°60.0'	2636	30°30.0'	2310	49°44.9'	2302	34°06.6'	2696	50°47.9'	3250
3	97°27.3'	2636	29°54.7'	2310	50°20.2'	2302	34°38.8'	2684	51°16.3'	3234
4	96°54.5'	2635	29°19.5'	2310	50°55.5'	2301	35°11.2'	2672	51°44.8'	3218
5	96°21.8'	2635	28°44.2'	2310	51°30.8'	2301	35°43.6'	2662	52°13.4'	3204
6	95°49.1'	2635	28°09.0'	2311	52°06.1'	2301	36°16.1'	2651	52°42.1'	3189
7	95°16.4'	2635	27°33.7'	2311	52°41.5'	2301	36°48.7'	2642	53°10.9'	3175
8	94°43.7'	2634	26°58.5'	2311	53°16.8'	2300	37°21.3'	2632	53°39.8'	3162
9	94°11.0'	2634	26°23.3'	2312	53°52.1'	2300	37°54.1'	2623	54°08.8'	3149
10	93°38.3'	2634	25°48.0'	2312	54°27.5'	2300	38°26.9'	2615	54°37.8'	3136
11	93°05.6'	2634	25°12.8'	2313	55°02.8'	2300	38°59.7'	2607	55°07.0'	3124
12	92°32.9'	2634	24°37.6'	2313	55°38.1'	2300	39°32.6'	2599	55°36.2'	3112
13	92°00.1'	2634	24°02.3'	2314	56°13.4'	2300	40°05.6'	2592	56°05.5'	3101
14	91°27.4'	2633	23°27.1'	2315	56°48.8'	2299	40°38.6'	2585	56°34.9'	3090
15	90°54.7'	2633	22°51.9'	2315	57°24.1'	2299	41°11.7'	2578	57°04.3'	3079
16	90°22.0'	2633	22°16.7'	2316	57°59.5'	2299	41°44.9'	2571	57°33.8'	3069
17	89°49.3'	2633	21°41.5'	2317	58°34.8'	2299	42°18.1'	2565	58°03.4'	3059
18	89°16.5'	2633	21°06.3'	2318	59°10.1'	2299	42°51.3'	2559	58°33.1'	3050
19	88°43.8'	2633	20°31.1'	2319	59°45.5'	2299	43°24.6'	2554	59°02.8'	3040
20	88°11.1'	2633	19°56.0'	2321	60°20.8'	2299	43°57.9'	2548	59°32.6'	3031
21	87°38.4'	2633	19°20.8'	2322	60°56.1'	2299	44°31.3'	2543	60°02.5'	3023
22	87°05.7'	2633	18°45.7'	2324	61°31.5'	2299	45°04.7'	2538	60°32.4'	3014
23	86°32.9'	2633	18°10.5'	2325	62°06.8'	2299	45°38.1'	2533	61°02.4'	3006