

Sat Jun 1, 2019 UTC

UTC	−Venus		+Formalhaut		+Saturn		+Altair		+Achernar	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	10°27.2′	3325	66°05.0′	2930	110°32.9′	2670	99°32.7′	3351	68°35.6′	5888
1	9°59.3′	3341	66°35.5′	2923	111°05.3′	2665	100°00.4′	3348	68°51.1′	5858
2	9°31.5′	3360	67°06.2′	2916	111°37.8′	2660	100°28.2′	3346	69°06.7′	5829
3	9°03.8′	3384	67°36.8′	2910	112°10.3′	2656	100°56.0′	3344	69°22.3′	5800
4	8°36.3′	3413	68°07.5′	2903	112°42.9′	2651	101°23.7′	3342	69°38.1′	5771
5	8°08.9′	3448	68°38.3′	2897	113°15.5′	2646	101°51.5′	3340	69°54.0′	5743
6	7°41.8′	3492	69°09.1′	2890	113°48.1′	2642	102°19.3′	3338	70°10.0′	5716
7	7°15.0′	3546	69°39.9′	2884	114°20.7′	2637	102°47.2′	3336	70°26.1′	5689
8	6°48.5′	3613	70°10.8′	2878	114°53.4′	2632	103°15.0′	3335	70°42.3′	5662
9	6°22.3′	3698	70°41.7′	2872	115°26.2′	2628	103°42.8′	3333	70°58.6′	5636
10	5°56.7′	3807	71°12.7′	2866	115°58.9′	2623	104°10.7′	3332	71°15.0′	5611
11	5°31.8′	3948	71°43.7′	2859	116°31.7′	2618	104°38.5′	3331	71°31.4′	5586
12	–	–	72°14.8′	2853	117°04.6′	2614	105°06.4′	3330	71°48.0′	5561
13	–	–	72°45.9′	2847	117°37.4′	2609	105°34.3′	3329	72°04.7′	5537
14	–	–	73°17.0′	2842	118°10.3′	2604	106°02.2′	3328	72°21.5′	5514
15	–	–	73°48.2′	2836	118°43.3′	2600	106°30.1′	3327	72°38.3′	5490
16	–	–	74°19.4′	2830	119°16.2′	2595	106°57.9′	3327	72°55.3′	5468
17	–	–	74°50.7′	2824	119°49.3′	2591	107°25.8′	3327	73°12.3′	5445
18	–	–	75°22.0′	2818	120°22.3′	2586	107°53.7′	3327	73°29.4′	5423
19	–	–	75°53.4′	2813	120°55.4′	2581	108°21.6′	3327	73°46.6′	5402
20	–	–	76°24.8′	2807	121°28.5′	2577	108°49.5′	3327	74°03.9′	5381
21	–	–	76°56.2′	2802	122°01.6′	2572	109°17.4′	3327	74°21.3′	5360
22	–	–	77°27.7′	2796	122°34.8′	2568	109°45.3′	3328	74°38.8′	5340
23	–	–	77°59.2′	2791	123°08.0′	2563	110°13.2′	3329	74°56.3′	5320

Sun Jun 2, 2019 UTC

UTC	+Formalhaut		+Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	78°30.8′	2785	110°41.0′	3330
1	79°02.3′	2780	111°08.9′	3331
2	79°34.0′	2775	111°36.8′	3332
3	80°05.7′	2770	112°04.6′	3334
4	80°37.4′	2764	112°32.5′	3336
5	81°09.1′	2759	113°00.3′	3338
6	81°40.9′	2754	113°28.1′	3340
7	82°12.7′	2749	113°55.9′	3343
8	82°44.6′	2744	114°23.7′	3345
9	83°16.5′	2739	114°51.5′	3348
10	83°48.4′	2735	115°19.3′	3352
11	84°20.4′	2730	115°47.0′	3355
12	84°52.4′	2725	116°14.7′	3359
13	85°24.4′	2721	116°42.4′	3363
14	85°56.5′	2716	117°10.0′	3367
15	86°28.6′	2711	117°37.7′	3372
16	87°00.7′	2707	118°05.3′	3377
17	87°32.9′	2703	118°32.8′	3382
18	88°05.1′	2698	119°00.4′	3388
19	88°37.3′	2694	119°27.9′	3394
20	89°09.6′	2690	119°55.4′	3400
21	89°41.9′	2686	120°22.8′	3406
22	90°14.2′	2682	120°50.2′	3413
23	90°46.6′	2677	121°17.5′	3421

Wed Jun 5, 2019 UTC

UTC	-Mars		-Pollux		-Regulus		-Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	8°36.9'	2597	20°31.0'	2535	55°36.9'	2324	109°32.8'	2354
1	8°03.9'	2607	19°57.6'	2545	55°01.8'	2322	108°57.9'	2352
2	7°31.0'	2619	19°24.2'	2557	54°26.6'	2320	108°23.0'	2349
3	6°58.2'	2636	18°50.9'	2570	53°51.4'	2318	107°48.1'	2347
4	6°25.5'	2657	18°17.7'	2584	53°16.3'	2316	107°13.1'	2344
5	5°52.9'	2687	17°44.6'	2601	52°41.0'	2314	106°38.1'	2342
6	5°20.6'	2727	17°11.6'	2619	52°05.8'	2312	106°03.2'	2340
7	4°48.6'	2784	16°38.8'	2639	51°30.6'	2310	105°28.1'	2337
8	4°17.0'	2867	16°06.1'	2662	50°55.4'	2308	104°53.1'	2335
9	-	-	15°33.6'	2688	50°20.1'	2306	104°18.1'	2333
10	-	-	15°01.3'	2718	49°44.8'	2305	103°43.0'	2331
11	-	-	14°29.2'	2751	49°09.5'	2303	103°07.9'	2329
12	-	-	13°57.4'	2789	48°34.2'	2301	102°32.8'	2327
13	-	-	13°25.8'	2832	47°58.9'	2300	101°57.7'	2325
14	-	-	12°54.5'	2881	47°23.6'	2298	101°22.6'	2323
15	-	-	12°23.6'	2938	46°48.2'	2297	100°47.4'	2321
16	-	-	11°53.1'	3004	46°12.9'	2295	100°12.3'	2319
17	-	-	11°23.1'	3081	45°37.5'	2294	99°37.1'	2317
18	-	-	10°53.6'	3170	45°02.1'	2292	99°01.9'	2316
19	-	-	10°24.7'	3276	44°26.7'	2291	98°26.7'	2314
20	-	-	9°56.4'	3400	43°51.3'	2290	97°51.5'	2312
21	-	-	-	-	43°15.9'	2289	97°16.3'	2311
22	4°13.5'	2764	-	-	42°40.5'	2288	96°41.0'	2309
23	4°45.3'	2701	-	-	42°05.0'	2286	96°05.8'	2308

Thu Jun 6, 2019 UTC

UTC	+Mars		-Regulus		+Betelgeuse		-Spica		-Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	5°17.5'	2655	41°29.6'	2285	25°08.9'	3144	95°30.5'	2306	95°02.3'	2722
1	5°50.0'	2621	40°54.1'	2284	25°38.0'	3106	94°55.2'	2305	94°30.2'	2720
2	6°22.8'	2595	40°18.7'	2283	26°07.4'	3070	94°19.9'	2304	93°58.1'	2718
3	6°55.9'	2575	39°43.2'	2283	26°36.9'	3036	93°44.6'	2302	93°26.0'	2716
4	7°29.0'	2558	39°07.8'	2282	27°06.8'	3004	93°09.3'	2301	92°53.9'	2714
5	8°02.3'	2545	38°32.3'	2281	27°36.8'	2974	92°34.0'	2300	92°21.8'	2713
6	8°35.7'	2534	37°56.8'	2280	28°07.1'	2946	91°58.7'	2299	91°49.7'	2711
7	9°09.2'	2524	37°21.3'	2280	28°37.5'	2919	91°23.3'	2298	91°17.6'	2710
8	9°42.7'	2517	36°45.8'	2279	29°08.1'	2894	90°48.0'	2296	90°45.4'	2709
9	10°16.3'	2510	36°10.3'	2279	29°39.0'	2870	90°12.6'	2295	90°13.3'	2708
10	10°50.0'	2504	35°34.8'	2278	30°09.9'	2848	89°37.2'	2294	89°41.1'	2707
11	11°23.7'	2498	34°59.3'	2278	30°41.1'	2827	89°01.9'	2294	89°08.9'	2706
12	11°57.5'	2494	34°23.8'	2277	31°12.4'	2807	88°26.5'	2293	88°36.7'	2705
13	12°31.3'	2490	33°48.3'	2277	31°43.8'	2788	87°51.1'	2292	88°04.6'	2705
14	13°05.1'	2486	33°12.7'	2277	32°15.4'	2770	87°15.7'	2291	87°32.4'	2704
15	13°38.9'	2483	32°37.2'	2277	32°47.1'	2752	86°40.3'	2290	87°00.2'	2704
16	14°12.8'	2480	32°01.7'	2277	33°18.9'	2736	86°04.9'	2290	86°28.0'	2704
17	14°46.7'	2477	31°26.2'	2277	33°50.9'	2721	85°29.5'	2289	85°55.8'	2704
18	15°20.6'	2475	30°50.7'	2277	34°23.0'	2706	84°54.0'	2288	85°23.6'	2704
19	15°54.6'	2472	30°15.1'	2277	34°55.1'	2692	84°18.6'	2288	84°51.4'	2704
20	16°28.5'	2470	29°39.6'	2278	35°27.4'	2679	83°43.2'	2287	84°19.2'	2704
21	17°02.5'	2469	29°04.1'	2278	35°59.8'	2666	83°07.8'	2287	83°47.0'	2705
22	17°36.5'	2467	28°28.6'	2278	36°32.3'	2654	82°32.3'	2286	83°14.8'	2705
23	18°10.5'	2465	27°53.1'	2279	37°04.8'	2643	81°56.9'	2286	82°42.6'	2706

Fri Jun 7, 2019 UTC

UTC	+Sun		-Regulus		+Mars		+Pollux		-Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	46°50.0'	2561	27°17.6'	2280	18°44.5'	2464	10°43.9'	3078	81°21.4'	2286
1	47°23.3'	2560	26°42.1'	2281	19°18.5'	2463	11°13.4'	2994	80°46.0'	2285
2	47°56.5'	2559	26°06.6'	2282	19°52.5'	2461	11°43.5'	2923	80°10.5'	2285
3	48°29.8'	2559	25°31.1'	2283	20°26.6'	2460	12°14.1'	2860	79°35.1'	2285
4	49°03.1'	2558	24°55.7'	2284	21°00.6'	2459	12°45.2'	2806	78°59.6'	2285
5	49°36.4'	2558	24°20.2'	2285	21°34.7'	2458	13°16.6'	2759	78°24.2'	2284
6	50°09.7'	2557	23°44.7'	2287	22°08.8'	2457	13°48.4'	2717	77°48.7'	2284
7	50°43.0'	2557	23°09.3'	2288	22°42.8'	2457	14°20.5'	2680	77°13.3'	2284
8	51°16.3'	2557	22°33.9'	2290	23°16.9'	2456	14°52.9'	2647	76°37.8'	2284
9	51°49.6'	2556	21°58.5'	2292	23°51.0'	2455	15°25.5'	2618	76°02.3'	2284
10	52°22.9'	2556	21°23.1'	2295	24°25.1'	2455	15°58.3'	2592	75°26.9'	2284
11	52°56.2'	2556	20°47.7'	2297	24°59.2'	2454	16°31.4'	2568	74°51.4'	2285
12	53°29.5'	2555	20°12.3'	2300	25°33.3'	2454	17°04.6'	2547	74°16.0'	2285
13	54°02.8'	2555	19°37.0'	2303	26°07.4'	2453	17°38.0'	2528	73°40.5'	2285
14	54°36.1'	2555	19°01.7'	2307	26°41.5'	2453	18°11.5'	2511	73°05.1'	2285
15	55°09.5'	2555	18°26.4'	2311	27°15.6'	2453	18°45.1'	2495	72°29.6'	2285
16	55°42.8'	2555	17°51.2'	2315	27°49.7'	2453	19°18.9'	2481	71°54.2'	2286
17	56°16.1'	2555	17°16.0'	2320	28°23.8'	2452	19°52.8'	2468	71°18.7'	2286
18	56°49.4'	2555	16°40.8'	2325	28°57.9'	2452	20°26.8'	2456	70°43.3'	2287
19	57°22.7'	2555	16°05.7'	2331	29°32.0'	2452	21°00.9'	2445	70°07.8'	2287
20	57°56.0'	2555	15°30.6'	2338	30°06.2'	2452	21°35.0'	2435	69°32.4'	2287
21	58°29.3'	2555	14°55.6'	2346	30°40.3'	2452	22°09.3'	2426	68°57.0'	2288
22	59°02.7'	2555	14°20.6'	2354	31°14.4'	2452	22°43.6'	2418	68°21.5'	2289
23	59°36.0'	2555	13°45.7'	2364	31°48.5'	2452	23°18.0'	2410	67°46.1'	2289

Sat Jun 8, 2019 UTC

UTC	+Sun		-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	60°09.3'	2556	13°10.9'	2375	23°52.4'	2403	32°22.6'	2452	67°10.7'	2290
1	60°42.6'	2556	12°36.2'	2387	24°26.9'	2396	32°56.7'	2452	66°35.3'	2290
2	61°15.9'	2556	12°01.6'	2402	25°01.5'	2390	33°30.8'	2453	65°59.9'	2291
3	61°49.2'	2556	11°27.1'	2419	25°36.1'	2385	34°04.9'	2453	65°24.5'	2292
4	62°22.5'	2557	10°52.7'	2439	26°10.8'	2379	34°39.1'	2453	64°49.1'	2293
5	62°55.8'	2557	10°18.5'	2462	26°45.5'	2375	35°13.2'	2453	64°13.7'	2294
6	63°29.1'	2558	9°44.4'	2490	27°20.2'	2370	35°47.3'	2454	63°38.3'	2295
7	64°02.4'	2558	9°10.6'	2523	27°54.9'	2366	36°21.4'	2454	63°02.9'	2295
8	64°35.7'	2558	8°37.0'	2564	28°29.7'	2362	36°55.5'	2454	62°27.6'	2296
9	65°09.0'	2559	8°03.8'	2614	29°04.6'	2359	37°29.6'	2455	61°52.2'	2298
10	65°42.3'	2559	7°30.9'	2676	29°39.4'	2355	38°03.7'	2455	61°16.8'	2299
11	66°15.6'	2560	6°58.5'	2755	30°14.3'	2352	38°37.7'	2456	60°41.5'	2300
12	66°48.8'	2561	6°26.7'	2858	30°49.2'	2350	39°11.8'	2456	60°06.2'	2301
13	67°22.1'	2561	–	–	31°24.1'	2347	39°45.9'	2457	59°30.8'	2302
14	67°55.4'	2562	–	–	31°59.1'	2345	40°20.0'	2457	58°55.5'	2303
15	68°28.6'	2562	–	–	32°34.1'	2342	40°54.1'	2458	58°20.2'	2305
16	69°01.9'	2563	–	–	33°09.1'	2340	41°28.1'	2459	57°44.9'	2306
17	69°35.2'	2564	–	–	33°44.1'	2339	42°02.2'	2459	57°09.6'	2307
18	70°08.4'	2564	–	–	34°19.1'	2337	42°36.3'	2460	56°34.4'	2309
19	70°41.7'	2565	–	–	34°54.1'	2335	43°10.3'	2461	55°59.1'	2310
20	71°14.9'	2566	–	–	35°29.1'	2334	43°44.4'	2461	55°23.9'	2312
21	71°48.1'	2567	–	–	36°04.2'	2333	44°18.4'	2462	54°48.6'	2313
22	72°21.4'	2568	–	–	36°39.3'	2332	44°52.4'	2463	54°13.4'	2315
23	72°54.6'	2568	–	–	37°14.3'	2330	45°26.5'	2464	53°38.2'	2317

Sun Jun 9, 2019 UTC

UTC	+Sun		+Pollux		-Spica		+Mars		+Procyon	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	73°27.8'	2569	37°49.4'	2330	53°03.0'	2318	46°00.5'	2465	40°02.0'	2740
1	74°01.0'	2570	38°24.5'	2329	52°27.8'	2320	46°34.5'	2466	40°33.9'	2729
2	74°34.2'	2571	38°59.6'	2328	51°52.7'	2322	47°08.5'	2466	41°05.9'	2719
3	75°07.4'	2572	39°34.7'	2327	51°17.5'	2324	47°42.5'	2467	41°38.0'	2710
4	75°40.6'	2573	40°09.8'	2327	50°42.4'	2326	48°16.5'	2468	42°10.1'	2701
5	76°13.7'	2574	40°44.9'	2326	50°07.2'	2328	48°50.5'	2469	42°42.4'	2692
6	76°46.9'	2575	41°20.1'	2326	49°32.1'	2330	49°24.5'	2470	43°14.6'	2684
7	77°20.1'	2576	41°55.2'	2326	48°57.0'	2332	49°58.4'	2471	43°47.0'	2676
8	77°53.2'	2577	42°30.3'	2325	48°22.0'	2334	50°32.4'	2472	44°19.4'	2668
9	78°26.4'	2578	43°05.4'	2325	47°46.9'	2336	51°06.4'	2473	44°51.8'	2661
10	78°59.5'	2579	43°40.6'	2325	47°11.9'	2338	51°40.3'	2474	45°24.3'	2654
11	79°32.7'	2580	44°15.7'	2325	46°36.9'	2341	52°14.3'	2475	45°56.9'	2648
12	80°05.8'	2581	44°50.8'	2325	46°01.9'	2343	52°48.2'	2476	46°29.5'	2642
13	80°38.9'	2582	45°25.9'	2325	45°26.9'	2346	53°22.1'	2477	47°02.2'	2636
14	81°12.0'	2584	46°01.1'	2325	44°51.9'	2348	53°56.0'	2479	47°34.9'	2630
15	81°45.1'	2585	46°36.2'	2326	44°17.0'	2351	54°29.9'	2480	48°07.6'	2625
16	82°18.2'	2586	47°11.3'	2326	43°42.1'	2354	55°03.8'	2481	48°40.4'	2620
17	82°51.3'	2587	47°46.4'	2326	43°07.2'	2357	55°37.7'	2482	49°13.2'	2615
18	83°24.3'	2588	48°21.6'	2326	42°32.3'	2360	56°11.6'	2483	49°46.1'	2610
19	83°57.4'	2590	48°56.7'	2327	41°57.4'	2363	56°45.5'	2484	50°19.0'	2606
20	84°30.4'	2591	49°31.8'	2327	41°22.6'	2366	57°19.3'	2486	50°51.9'	2602
21	85°03.5'	2592	50°06.9'	2328	40°47.8'	2369	57°53.2'	2487	51°24.9'	2598
22	85°36.5'	2594	50°42.0'	2328	40°13.0'	2372	58°27.0'	2488	51°57.9'	2594
23	86°09.5'	2595	51°17.1'	2329	39°38.3'	2376	59°00.9'	2490	52°30.9'	2590

Mon Jun 10, 2019 UTC

UTC	+Sun		+Regulus		-Spica		+Pollux		+Mars	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	86°42.5'	2596	15°56.9'	2369	39°03.6'	2379	51°52.2'	2329	59°34.7'	2491
1	87°15.5'	2598	16°31.7'	2365	38°28.9'	2383	52°27.3'	2330	60°08.5'	2492
2	87°48.5'	2599	17°06.5'	2361	37°54.2'	2387	53°02.4'	2331	60°42.3'	2493
3	88°21.5'	2600	17°41.3'	2358	37°19.6'	2390	53°37.5'	2332	61°16.1'	2495
4	88°54.5'	2602	18°16.2'	2355	36°45.0'	2394	54°12.5'	2332	61°49.9'	2496
5	89°27.5'	2603	18°51.1'	2353	36°10.4'	2399	54°47.6'	2333	62°23.6'	2498
6	90°00.4'	2604	19°26.0'	2351	35°35.9'	2403	55°22.7'	2334	62°57.4'	2499
7	90°33.3'	2606	20°00.9'	2350	35°01.4'	2408	55°57.7'	2335	63°31.2'	2500
8	91°06.3'	2607	20°35.8'	2348	34°26.9'	2412	56°32.8'	2336	64°04.9'	2502
9	91°39.2'	2609	21°10.8'	2347	33°52.5'	2417	57°07.8'	2337	64°38.6'	2503
10	92°12.1'	2610	21°45.7'	2346	33°18.1'	2422	57°42.8'	2338	65°12.3'	2505
11	92°45.0'	2612	22°20.7'	2346	32°43.7'	2428	58°17.9'	2338	65°46.0'	2506
12	93°17.9'	2613	22°55.6'	2345	32°09.4'	2433	58°52.9'	2339	66°19.7'	2508
13	93°50.7'	2615	23°30.6'	2345	31°35.2'	2439	59°27.9'	2341	66°53.4'	2509
14	94°23.6'	2616	24°05.6'	2344	31°00.9'	2445	60°02.9'	2342	67°27.1'	2511
15	94°56.4'	2618	24°40.6'	2344	30°26.8'	2451	60°37.9'	2343	68°00.7'	2512
16	95°29.3'	2620	25°15.5'	2344	29°52.7'	2458	61°12.9'	2344	68°34.4'	2514
17	96°02.1'	2621	25°50.5'	2344	29°18.6'	2465	61°47.9'	2345	69°08.0'	2515
18	96°34.9'	2623	26°25.5'	2345	28°44.6'	2472	62°22.8'	2346	69°41.7'	2517
19	97°07.7'	2624	27°00.4'	2345	28°10.6'	2480	62°57.8'	2347	70°15.3'	2518
20	97°40.5'	2626	27°35.4'	2345	27°36.7'	2488	63°32.7'	2348	70°48.9'	2520
21	98°13.3'	2628	28°10.4'	2346	27°02.9'	2496	64°07.7'	2350	71°22.4'	2521
22	98°46.0'	2629	28°45.3'	2346	26°29.1'	2505	64°42.6'	2351	71°56.0'	2523
23	99°18.8'	2631	29°20.3'	2347	25°55.4'	2515	65°17.5'	2352	72°29.6'	2525

Tue Jun 11, 2019 UTC

UTC	+Sun		+Regulus		-Spica		+Pollux		-Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	99°51.5'	2633	29°55.2'	2348	25°21.8'	2525	65°52.4'	2354	70°52.8'	2369
1	100°24.3'	2634	30°30.2'	2348	24°48.2'	2536	66°27.3'	2355	70°18.0'	2370
2	100°57.0'	2636	31°05.1'	2349	24°14.8'	2547	67°02.2'	2356	69°43.2'	2372
3	101°29.7'	2638	31°40.0'	2350	23°41.4'	2559	67°37.1'	2358	69°08.5'	2374
4	102°02.4'	2639	32°15.0'	2351	23°08.1'	2572	68°12.0'	2359	68°33.8'	2376
5	102°35.0'	2641	32°49.9'	2352	22°34.9'	2586	68°46.8'	2360	67°59.1'	2378
6	103°07.7'	2643	33°24.8'	2353	22°01.8'	2601	69°21.7'	2362	67°24.4'	2380
7	103°40.3'	2645	33°59.7'	2354	21°28.9'	2617	69°56.5'	2363	66°49.7'	2382
8	104°13.0'	2646	34°34.6'	2355	20°56.0'	2634	70°31.3'	2365	66°15.0'	2385
9	104°45.6'	2648	35°09.5'	2356	20°23.3'	2652	71°06.1'	2366	65°40.4'	2387
10	105°18.2'	2650	35°44.4'	2357	19°50.7'	2672	71°40.9'	2368	65°05.7'	2389
11	105°50.8'	2652	36°19.2'	2359	19°18.3'	2694	72°15.7'	2369	64°31.1'	2391
12	106°23.4'	2654	36°54.1'	2360	18°46.0'	2717	72°50.5'	2371	63°56.5'	2393
13	106°56.0'	2655	37°28.9'	2361	18°13.9'	2743	73°25.2'	2372	63°21.9'	2395
14	107°28.5'	2657	38°03.8'	2363	17°42.0'	2771	73°60.0'	2374	62°47.4'	2398
15	108°01.1'	2659	38°38.6'	2364	17°10.3'	2801	74°34.7'	2375	62°12.8'	2400
16	108°33.6'	2661	39°13.4'	2365	16°38.9'	2835	75°09.4'	2377	61°38.3'	2402
17	109°06.1'	2663	39°48.2'	2367	16°07.6'	2872	75°44.2'	2379	61°03.8'	2405
18	109°38.6'	2665	40°23.0'	2368	15°36.7'	2913	76°18.8'	2380	60°29.3'	2407
19	110°11.1'	2667	40°57.8'	2369	15°06.0'	2959	76°53.5'	2382	59°54.8'	2409
20	110°43.5'	2669	41°32.5'	2371	14°35.6'	3010	77°28.2'	2383	59°20.4'	2412
21	111°16.0'	2671	42°07.3'	2372	14°05.6'	3067	78°02.9'	2385	58°45.9'	2414
22	111°48.4'	2673	42°42.1'	2374	13°36.0'	3131	78°37.5'	2387	58°11.5'	2417
23	112°20.9'	2674	43°16.8'	2376	13°06.8'	3203	79°12.1'	2389	57°37.1'	2419

Wed Jun 12, 2019 UTC

UTC	+Sun		+Regulus		-Antares		-Jupiter		-Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	112°53.3'	2676	43°51.5'	2377	57°02.8'	2422	65°35.6'	2328	12°38.1'	3285
1	113°25.7'	2678	44°26.2'	2379	56°28.4'	2425	65°00.5'	2330	12°10.0'	3378
2	113°58.1'	2680	45°00.9'	2380	55°54.1'	2427	64°25.5'	2332	11°42.4'	3485
3	114°30.4'	2682	45°35.6'	2382	55°19.8'	2430	63°50.4'	2334	11°15.5'	3608
4	115°02.8'	2684	46°10.3'	2384	54°45.5'	2433	63°15.3'	2336	-	-
5	115°35.1'	2687	46°44.9'	2385	54°11.2'	2435	62°40.3'	2337	-	-
6	116°07.4'	2689	47°19.6'	2387	53°37.0'	2438	62°05.3'	2339	-	-
7	116°39.7'	2691	47°54.2'	2389	53°02.7'	2441	61°30.2'	2341	-	-
8	117°12.0'	2693	48°28.8'	2390	52°28.5'	2444	60°55.2'	2343	-	-
9	117°44.3'	2695	49°03.4'	2392	51°54.4'	2447	60°20.3'	2345	-	-
10	118°16.6'	2697	49°38.0'	2394	51°20.2'	2450	59°45.3'	2347	-	-
11	118°48.8'	2699	50°12.6'	2396	50°46.1'	2453	59°10.3'	2349	-	-
12	119°21.0'	2701	50°47.1'	2397	50°12.0'	2456	58°35.4'	2351	-	-
13	119°53.3'	2703	51°21.7'	2399	49°37.9'	2459	58°00.5'	2353	-	-
14	120°25.5'	2705	51°56.2'	2401	49°03.8'	2462	57°25.6'	2355	-	-
15	120°57.6'	2708	52°30.7'	2403	48°29.8'	2466	56°50.7'	2357	-	-
16	121°29.8'	2710	53°05.2'	2405	47°55.8'	2469	56°15.8'	2359	-	-
17	122°02.0'	2712	53°39.7'	2407	47°21.8'	2472	55°41.0'	2361	-	-
18	122°34.1'	2714	54°14.2'	2409	46°47.8'	2476	55°06.2'	2363	-	-
19	123°06.2'	2716	54°48.7'	2410	46°13.9'	2479	54°31.3'	2365	-	-
20	123°38.3'	2719	55°23.1'	2412	45°40.0'	2483	53°56.5'	2368	-	-
21	124°10.4'	2721	55°57.5'	2414	45°06.1'	2487	53°21.8'	2370	-	-
22	124°42.5'	2723	56°32.0'	2416	44°32.3'	2490	52°47.0'	2372	-	-
23	125°14.5'	2725	57°06.4'	2418	43°58.5'	2494	52°12.2'	2374	-	-

Thu Jun 13, 2019 UTC

UTC	−Jupiter		−Antares		+Regulus		−Saturn		+Pollux	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	51°37.5′	2376	43°24.7′	2498	57°40.7′	2420	81°23.9′	2393	93°33.1′	2437
1	51°02.8′	2378	42°50.9′	2502	58°15.1′	2422	80°49.3′	2395	94°07.4′	2439
2	50°28.1′	2380	42°17.2′	2506	58°49.4′	2424	80°14.7′	2397	94°41.6′	2441
3	49°53.4′	2383	41°43.5′	2511	59°23.8′	2426	79°40.2′	2399	95°15.8′	2443
4	49°18.7′	2385	41°09.9′	2515	59°58.1′	2428	79°05.6′	2401	95°50.0′	2446
5	48°44.1′	2387	40°36.2′	2519	60°32.4′	2430	78°31.1′	2403	96°24.1′	2448
6	48°09.5′	2389	40°02.6′	2524	61°06.7′	2433	77°56.6′	2406	96°58.3′	2450
7	47°34.8′	2392	39°29.1′	2528	61°41.0′	2435	77°22.1′	2408	97°32.4′	2452
8	47°00.3′	2394	38°55.6′	2533	62°15.2′	2437	76°47.7′	2410	98°06.5′	2455
9	46°25.7′	2396	38°22.1′	2538	62°49.4′	2439	76°13.2′	2412	98°40.6′	2457
10	45°51.1′	2398	37°48.6′	2543	63°23.7′	2441	75°38.8′	2414	99°14.7′	2459
11	45°16.6′	2401	37°15.2′	2548	63°57.9′	2443	75°04.4′	2417	99°48.8′	2462
12	44°42.1′	2403	36°41.9′	2553	64°32.0′	2445	74°30.0′	2419	100°22.8′	2464
13	44°07.6′	2406	36°08.5′	2559	65°06.2′	2448	73°55.6′	2421	100°56.8′	2466
14	43°33.1′	2408	35°35.2′	2564	65°40.4′	2450	73°21.2′	2423	101°30.8′	2469
15	42°58.6′	2410	35°02.0′	2570	66°14.5′	2452	72°46.9′	2426	102°04.8′	2471
16	42°24.2′	2413	34°28.8′	2576	66°48.6′	2454	72°12.6′	2428	102°38.8′	2473
17	41°49.7′	2415	33°55.6′	2582	67°22.7′	2457	71°38.3′	2430	103°12.7′	2476
18	41°15.3′	2418	33°22.5′	2589	67°56.8′	2459	71°04.0′	2433	103°46.6′	2478
19	40°41.0′	2420	32°49.5′	2595	68°30.8′	2461	70°29.7′	2435	104°20.6′	2481
20	40°06.6′	2423	32°16.5′	2602	69°04.9′	2464	69°55.5′	2437	104°54.4′	2483
21	39°32.2′	2425	31°43.5′	2609	69°38.9′	2466	69°21.2′	2440	105°28.3′	2486
22	38°57.9′	2428	31°10.6′	2617	70°12.9′	2468	68°47.0′	2442	106°02.2′	2488
23	38°23.6′	2430	30°37.8′	2624	70°46.9′	2471	68°12.8′	2444	106°36.0′	2491

Fri Jun 14, 2019 UTC

UTC	−Jupiter		−Antares		+Spica		−Saturn		+Regulus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	37°49.3′	2433	30°05.0′	2632	18°35.7′	2825	67°38.7′	2447	71°20.9′	2473
1	37°15.0′	2435	29°32.3′	2641	19°07.0′	2808	67°04.5′	2449	71°54.8′	2475
2	36°40.8′	2438	28°59.6′	2650	19°38.4′	2792	66°30.4′	2452	72°28.8′	2478
3	36°06.6′	2441	28°27.0′	2659	20°09.9′	2778	65°56.2′	2454	73°02.7′	2480
4	35°32.4′	2443	27°54.5′	2668	20°41.6′	2765	65°22.1′	2456	73°36.6′	2483
5	34°58.2′	2446	27°22.0′	2678	21°13.3′	2753	64°48.1′	2459	74°10.4′	2485
6	34°24.0′	2449	26°49.6′	2689	21°45.2′	2742	64°14.0′	2461	74°44.3′	2487
7	33°49.9′	2451	26°17.3′	2699	22°17.1′	2732	63°40.0′	2464	75°18.1′	2490
8	33°15.8′	2454	25°45.1′	2711	22°49.1′	2724	63°05.9′	2466	75°52.0′	2492
9	32°41.7′	2457	25°13.0′	2723	23°21.1′	2715	62°31.9′	2469	76°25.8′	2495
10	32°07.6′	2460	24°40.9′	2736	23°53.2′	2708	61°57.9′	2471	76°59.5′	2497
11	31°33.5′	2463	24°08.9′	2750	24°25.4′	2702	61°24.0′	2474	77°33.3′	2500
12	30°59.5′	2466	23°37.1′	2764	24°57.6′	2696	60°50.0′	2477	78°07.0′	2503
13	30°25.5′	2468	23°05.3′	2779	25°29.8′	2690	60°16.1′	2479	78°40.8′	2505
14	29°51.5′	2471	22°33.7′	2795	26°02.1′	2685	59°42.2′	2482	79°14.5′	2508
15	29°17.5′	2474	22°02.2′	2813	26°34.5′	2681	59°08.3′	2484	79°48.1′	2510
16	28°43.6′	2477	21°30.8′	2831	27°06.8′	2677	58°34.5′	2487	80°21.8′	2513
17	28°09.7′	2481	20°59.5′	2851	27°39.2′	2673	58°00.6′	2490	80°55.4′	2516
18	27°35.8′	2484	20°28.4′	2872	28°11.7′	2670	57°26.8′	2492	81°29.1′	2518
19	27°01.9′	2487	19°57.4′	2894	28°44.1′	2667	56°53.0′	2495	82°02.7′	2521
20	26°28.1′	2490	19°26.6′	2919	29°16.6′	2665	56°19.2′	2498	82°36.2′	2524
21	25°54.3′	2493	18°56.0′	2945	29°49.1′	2662	55°45.5′	2500	83°09.8′	2526
22	25°20.5′	2496	18°25.5′	2973	30°21.6′	2660	55°11.7′	2503	83°43.3′	2529
23	24°46.7′	2500	17°55.3′	3004	30°54.1′	2659	54°38.0′	2506	84°16.8′	2532

Sat Jun 15, 2019 UTC

UTC	−Jupiter		+Spica		−Saturn		−Antares		+Regulus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	24°13.0′	2503	31°26.6′	2657	54°04.3′	2508	17°25.2′	3038	84°50.3′	2535
1	23°39.2′	2507	31°59.1′	2656	53°30.6′	2511	16°55.4′	3074	85°23.8′	2537
2	23°05.6′	2510	32°31.7′	2655	52°57.0′	2514	16°25.8′	3114	85°57.3′	2540
3	22°31.9′	2514	33°04.2′	2654	52°23.4′	2517	15°56.5′	3158	86°30.7′	2543
4	21°58.3′	2518	33°36.8′	2654	51°49.7′	2520	15°27.5′	3206	87°04.1′	2546
5	21°24.7′	2521	34°09.4′	2653	51°16.2′	2522	14°58.9′	3260	87°37.5′	2549
6	20°51.1′	2525	34°41.9′	2653	50°42.6′	2525	14°30.5′	3319	88°10.9′	2551
7	20°17.5′	2529	35°14.5′	2653	50°09.0′	2528	14°02.6′	3384	88°44.2′	2554
8	19°44.0′	2533	35°47.1′	2653	49°35.5′	2531	13°35.1′	3458	89°17.5′	2557
9	19°10.5′	2538	36°19.7′	2654	49°02.0′	2534	13°08.0′	3540	89°50.8′	2560
10	18°37.1′	2542	36°52.2′	2654	48°28.5′	2537	12°41.5′	3632	90°24.1′	2563
11	18°03.7′	2546	37°24.8′	2654	47°55.1′	2540	12°15.5′	3737	90°57.4′	2566
12	17°30.3′	2551	37°57.4′	2655	47°21.6′	2542	11°50.1′	3855	91°30.6′	2569
13	16°56.9′	2556	38°29.9′	2656	46°48.2′	2545	11°25.4′	3990	92°03.8′	2572
14	16°23.6′	2561	39°02.5′	2657	46°14.8′	2548	–	–	92°37.0′	2575
15	15°50.4′	2566	39°35.0′	2658	45°41.5′	2551	–	–	93°10.1′	2578
16	15°17.1′	2572	40°07.5′	2659	45°08.1′	2554	–	–	93°43.3′	2581
17	14°44.0′	2578	40°40.1′	2660	44°34.8′	2557	–	–	94°16.4′	2584
18	14°10.8′	2584	41°12.6′	2661	44°01.5′	2560	–	–	94°49.5′	2587
19	13°37.7′	2591	41°45.1′	2662	43°28.2′	2563	–	–	95°22.6′	2590
20	13°04.7′	2598	42°17.6′	2664	42°55.0′	2566	–	–	95°55.6′	2593
21	12°31.7′	2606	42°50.1′	2665	42°21.8′	2569	–	–	96°28.7′	2596
22	11°58.8′	2615	43°22.6′	2667	41°48.6′	2572	–	–	97°01.7′	2599
23	11°25.9′	2624	43°55.1′	2668	41°15.4′	2575	–	–	97°34.6′	2602

Sun Jun 16, 2019 UTC

UTC	−Jupiter		−Saturn		+Spica		+Regulus		−Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	10°53.1′	2635	40°42.2′	2579	44°27.5′	2670	98°07.6′	2605	87°21.4′	2801
1	10°20.4′	2646	40°09.1′	2582	44°00.0′	2672	98°40.5′	2608	86°49.9′	2804
2	9°47.8′	2660	39°36.0′	2585	45°32.4′	2674	99°13.4′	2612	86°18.5′	2807
3	9°15.3′	2675	39°02.9′	2588	46°04.8′	2676	99°46.3′	2615	85°47.0′	2811
4	8°42.8′	2692	38°29.8′	2591	46°37.2′	2677	100°19.2′	2618	85°15.6′	2814
5	8°10.6′	2713	37°56.8′	2594	47°09.6′	2679	100°52.0′	2621	84°44.2′	2818
6	7°38.4′	2738	37°23.7′	2597	47°42.0′	2682	101°24.8′	2624	84°12.9′	2821
7	7°06.5′	2768	36°50.8′	2600	48°14.3′	2684	101°57.6′	2627	83°41.5′	2825
8	6°34.8′	2806	36°17.8′	2604	48°46.7′	2686	102°30.4′	2631	83°10.2′	2829
9	6°03.3′	2853	35°44.8′	2607	49°19.0′	2688	103°03.1′	2634	82°38.9′	2832
10	5°32.2′	2915	35°11.9′	2610	49°51.3′	2690	103°35.8′	2637	82°07.7′	2836
11	5°01.6′	2999	34°39.0′	2613	50°23.6′	2693	104°08.5′	2640	81°36.5′	2840
12	4°31.5′	3114	34°06.2′	2616	50°55.9′	2695	104°41.2′	2644	81°05.3′	2844
13	–	–	33°33.3′	2620	51°28.1′	2697	105°13.8′	2647	80°34.1′	2848
14	–	–	33°00.5′	2623	52°00.4′	2700	105°46.5′	2650	80°02.9′	2852
15	–	–	32°27.7′	2626	52°32.6′	2702	106°19.0′	2654	79°31.8′	2856
16	–	–	31°54.9′	2630	53°04.8′	2705	106°51.6′	2657	79°00.7′	2860
17	–	–	31°22.2′	2633	53°37.0′	2707	107°24.2′	2660	78°29.7′	2864
18	–	–	30°49.4′	2636	54°09.2′	2710	107°56.7′	2664	77°58.6′	2868
19	–	–	30°16.7′	2639	54°41.3′	2712	108°29.2′	2667	77°27.6′	2872
20	–	–	29°44.1′	2643	55°13.4′	2715	109°01.6′	2670	76°56.7′	2876
21	–	–	29°11.4′	2646	55°45.6′	2718	109°34.1′	2674	76°25.7′	2881
22	–	–	28°38.8′	2649	56°17.6′	2721	110°06.5′	2677	75°54.8′	2885
23	–	–	28°06.2′	2653	56°49.7′	2723	110°38.9′	2681	75°23.9′	2889

Mon Jun 17, 2019 UTC

UTC	−Saturn		+Spica		+Antares		−Formalhaut		+Arcturus	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	27°33.6′	2656	57°21.8′	2726	13°13.3′	3570	74°53.1′	2894	60°36.2′	3283
1	27°01.1′	2659	57°53.8′	2729	13°39.6′	3507	74°22.3′	2898	61°04.4′	3280
2	26°28.5′	2663	58°25.8′	2732	14°06.4′	3450	73°51.5′	2903	61°32.5′	3277
3	25°56.0′	2666	58°57.8′	2735	14°33.5′	3400	73°20.7′	2908	62°00.8′	3275
4	25°23.6′	2670	59°29.8′	2737	15°00.9′	3355	72°50.0′	2912	62°29.0′	3272
5	24°51.1′	2673	60°01.7′	2740	15°28.7′	3314	72°19.3′	2917	62°57.2′	3270
6	24°18.7′	2676	60°33.6′	2743	15°56.6′	3278	71°48.7′	2922	63°25.5′	3268
7	23°46.3′	2680	61°05.5′	2746	16°24.8′	3246	71°18.1′	2927	63°53.8′	3266
8	23°13.9′	2683	61°37.4′	2749	16°53.3′	3216	70°47.5′	2931	64°22.0′	3265
9	22°41.6′	2687	62°09.3′	2752	17°21.9′	3190	70°16.9′	2936	64°50.3′	3263
10	22°09.3′	2690	62°41.1′	2755	17°50.7′	3166	69°46.4′	2941	65°18.6′	3262
11	21°37.0′	2694	63°12.9′	2758	18°19.6′	3145	69°15.9′	2946	65°47.0′	3261
12	21°04.7′	2697	63°44.7′	2761	18°48.7′	3125	68°45.5′	2952	66°15.3′	3259
13	20°32.5′	2701	64°16.5′	2764	19°17.9′	3107	68°15.1′	2957	66°43.6′	3259
14	20°00.2′	2704	64°48.2′	2767	19°47.2′	3091	67°44.7′	2962	67°11.9′	3258
15	19°28.0′	2708	65°20.0′	2770	20°16.7′	3077	67°14.4′	2967	67°40.3′	3257
16	18°55.9′	2711	65°51.7′	2774	20°46.2′	3063	66°44.1′	2973	68°08.6′	3257
17	18°23.7′	2715	66°23.4′	2777	21°15.9′	3051	66°13.8′	2978	68°37.0′	3256
18	17°51.6′	2718	66°55.0′	2780	21°45.6′	3040	65°43.6′	2984	69°05.3′	3256
19	17°19.5′	2722	67°26.6′	2783	22°15.4′	3031	65°13.4′	2989	69°33.7′	3256
20	16°47.5′	2725	67°58.3′	2786	22°45.2′	3022	64°43.3′	2995	70°02.0′	3256
21	16°15.4′	2729	68°29.8′	2789	23°15.2′	3013	64°13.2′	3001	70°30.4′	3256
22	15°43.4′	2732	69°01.4′	2793	23°45.1′	3006	63°43.1′	3006	70°58.7′	3256
23	15°11.4′	2736	69°33.0′	2796	24°15.2′	2999	63°13.1′	3012	71°27.1′	3257

Tue Jun 18, 2019 UTC

UTC	−Saturn		+Jupiter		+Antares		+Spica		−Formalhaut	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	14°39.5′	2740	15°35.2′	2752	24°45.2′	2993	70°04.5′	2799	62°43.1′	3018
1	14°07.6′	2743	16°07.0′	2753	25°15.4′	2988	70°36.0′	2802	62°13.1′	3024
2	13°35.7′	2747	16°38.8′	2755	25°45.5′	2983	71°07.4′	2806	61°43.2′	3030
3	13°03.8′	2750	17°10.6′	2756	26°15.7′	2978	71°38.9′	2809	61°13.4′	3037
4	12°31.9′	2754	17°42.5′	2758	26°45.9′	2974	72°10.3′	2812	60°43.6′	3043
5	12°00.1′	2758	18°14.2′	2760	27°16.2′	2971	72°41.7′	2815	60°13.8′	3049
6	11°28.3′	2762	18°46.0′	2762	27°46.5′	2968	73°13.1′	2819	59°44.0′	3056
7	10°56.5′	2765	19°17.8′	2764	28°16.8′	2965	73°44.4′	2822	59°14.4′	3062
8	10°24.8′	2769	19°49.5′	2767	28°47.1′	2962	74°15.8′	2825	58°44.7′	3069
9	9°53.1′	2773	20°21.3′	2769	29°17.4′	2960	74°47.1′	2828	58°15.1′	3075
10	9°21.4′	2777	20°53.0′	2772	29°47.8′	2958	75°18.4′	2832	57°45.6′	3082
11	8°49.8′	2781	21°24.7′	2774	30°18.1′	2957	75°49.6′	2835	57°16.0′	3089
12	8°18.1′	2786	21°56.4′	2777	30°48.5′	2955	76°20.9′	2838	56°46.6′	3096
13	7°46.5′	2790	22°28.0′	2779	31°18.9′	2954	76°52.1′	2842	56°17.2′	3103
14	7°15.0′	2795	22°59.7′	2782	31°49.3′	2953	77°23.3′	2845	55°47.8′	3110
15	6°43.5′	2799	23°31.3′	2785	32°19.7′	2953	77°54.4′	2848	55°18.5′	3118
16	6°12.0′	2805	24°02.9′	2788	32°50.1′	2952	78°25.6′	2852	54°49.2′	3125
17	5°40.5′	2811	24°34.4′	2790	33°20.5′	2952	78°56.7′	2855	54°20.0′	3133
18	5°09.1′	2817	25°06.0′	2793	33°50.9′	2952	79°27.8′	2858	53°50.8′	3140
19	4°37.7′	2825	25°37.5′	2796	34°21.3′	2952	79°58.8′	2862	53°21.7′	3148
20	4°06.4′	2835	26°09.1′	2799	34°51.7′	2952	80°29.9′	2865	52°52.7′	3156
21	3°35.2′	2849	26°40.6′	2802	35°22.1′	2952	81°00.9′	2868	52°23.6′	3164
22	3°04.1′	2868	27°12.0′	2805	35°52.5′	2953	81°31.9′	2872	51°54.7′	3172
23	2°33.1′	2899	27°43.5′	2808	36°22.9′	2953	82°02.9′	2875	51°25.8′	3180

Wed Jun 19, 2019 UTC

UTC	−Saturn		+Jupiter		+Antares		−Formalhaut		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	2°02.3′	2960	28°14.9′	2811	36°53.3′	2954	50°56.9′	3189	82°33.8′	2878
1	—	—	28°46.3′	2814	37°23.7′	2955	50°28.1′	3198	83°04.7′	2882
2	—	—	29°17.7′	2817	37°54.0′	2956	49°59.4′	3206	83°35.6′	2885
3	—	—	29°49.1′	2820	38°24.4′	2957	49°30.7′	3215	84°06.5′	2888
4	—	—	30°20.4′	2823	38°54.8′	2958	49°02.1′	3224	84°37.4′	2892
5	—	—	30°51.7′	2826	39°25.2′	2959	48°33.6′	3234	85°08.2′	2895
6	—	—	31°23.0′	2829	39°55.5′	2960	48°05.1′	3243	85°39.0′	2898
7	1°43.0′	2957	31°54.3′	2832	40°25.9′	2962	47°36.6′	3253	86°09.8′	2902
8	2°13.3′	2917	32°25.6′	2835	40°56.2′	2963	47°08.3′	3263	86°40.6′	2905
9	2°44.0′	2898	32°56.8′	2838	41°26.5′	2964	46°40.0′	3273	87°11.3′	2908
10	3°14.8′	2888	33°28.0′	2841	41°56.8′	2966	46°11.7′	3283	87°42.0′	2911
11	3°45.6′	2883	33°59.2′	2845	42°27.2′	2967	45°43.5′	3293	88°12.7′	2915
12	4°16.5′	2881	34°30.4′	2848	42°57.5′	2969	45°15.4′	3304	88°43.4′	2918
13	4°47.4′	2880	35°01.5′	2851	43°27.7′	2971	44°47.4′	3315	89°14.0′	2921
14	5°18.3′	2880	35°32.6′	2854	43°58.0′	2972	44°19.4′	3326	89°44.6′	2925
15	5°49.3′	2881	36°03.7′	2857	44°28.3′	2974	43°51.5′	3338	90°15.2′	2928
16	6°20.2′	2882	36°34.8′	2860	44°58.5′	2976	43°23.7′	3350	90°45.8′	2931
17	6°51.1′	2884	37°05.9′	2863	45°28.8′	2978	42°56.0′	3362	91°16.4′	2934
18	7°21.9′	2886	37°36.9′	2866	45°59.0′	2980	42°28.3′	3374	91°46.9′	2937
19	7°52.8′	2889	38°07.9′	2869	46°29.2′	2981	42°00.7′	3387	92°17.4′	2941
20	8°23.7′	2891	38°38.9′	2872	46°59.4′	2983	41°33.2′	3400	92°47.9′	2944
21	8°54.5′	2893	39°09.9′	2875	47°29.6′	2985	41°05.8′	3413	93°18.3′	2947
22	9°25.3′	2896	39°40.8′	2878	47°59.8′	2987	40°38.4′	3427	93°48.8′	2950
23	9°56.1′	2899	40°11.8′	2881	48°29.9′	2989	40°11.2′	3441	94°19.2′	2953

Thu Jun 20, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		−Formalhaut		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	10°26.9′	2901	40°42.7′	2884	49°00.1′	2991	39°44.0′	3455	94°49.6′	2956
1	10°57.7′	2904	41°13.6′	2887	49°30.2′	2993	39°16.9′	3470	95°20.0′	2960
2	11°28.4′	2907	41°44.4′	2889	50°00.3′	2995	38°49.9′	3485	95°50.3′	2963
3	11°59.1′	2910	42°15.3′	2892	50°30.4′	2997	38°23.0′	3501	96°20.7′	2966
4	12°29.8′	2912	42°46.1′	2895	51°00.5′	2999	37°56.2′	3517	96°51.0′	2969
5	13°00.5′	2915	43°16.9′	2898	51°30.6′	3001	37°29.5′	3534	97°21.3′	2972
6	13°31.2′	2918	43°47.7′	2901	52°00.6′	3004	37°02.9′	3551	97°51.5′	2975
7	14°01.8′	2921	44°18.5′	2904	52°30.7′	3006	36°36.5′	3569	98°21.8′	2978
8	14°32.5′	2923	44°49.2′	2907	53°00.7′	3008	36°10.1′	3587	98°52.0′	2981
9	15°03.1′	2926	45°19.9′	2909	53°30.7′	3010	35°43.8′	3606	99°22.2′	2984
10	15°33.7′	2929	45°50.6′	2912	54°00.7′	3012	35°17.7′	3626	99°52.4′	2987
11	16°04.2′	2932	46°21.3′	2915	54°30.7′	3014	34°51.6′	3646	100°22.5′	2990
12	16°34.8′	2934	46°52.0′	2918	55°00.7′	3016	34°25.7′	3667	100°52.7′	2993
13	17°05.3′	2937	47°22.6′	2920	55°30.7′	3018	33°59.9′	3689	101°22.8′	2996
14	17°35.8′	2940	47°53.3′	2923	56°00.6′	3020	33°34.3′	3711	101°52.9′	2999
15	18°06.3′	2942	48°23.9′	2926	56°30.5′	3022	33°08.7′	3735	102°23.0′	3002
16	18°36.8′	2945	48°54.5′	2928	57°00.5′	3024	32°43.3′	3759	102°53.0′	3005
17	19°07.2′	2948	49°25.0′	2931	57°30.4′	3026	32°18.1′	3784	103°23.1′	3008
18	19°37.7′	2950	49°55.6′	2934	58°00.3′	3029	31°53.0′	3810	103°53.1′	3010
19	20°08.1′	2953	50°26.1′	2936	58°30.1′	3031	31°28.0′	3837	104°23.1′	3013
20	20°38.5′	2955	50°56.6′	2939	58°60.0′	3033	31°03.2′	3866	104°53.1′	3016
21	21°08.9′	2958	51°27.1′	2941	59°29.8′	3035	30°38.6′	3895	105°23.0′	3019
22	21°39.2′	2960	51°57.6′	2944	59°59.7′	3037	30°14.1′	3926	105°53.0′	3022
23	22°09.6′	2963	52°28.1′	2946	60°29.5′	3039	29°49.8′	3958	106°22.9′	3024

Fri Jun 21, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		-Formalhaut		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	22°39.9'	2965	52°58.5'	2949	60°59.3'	3041	29°25.7'	3991	106°52.8'	3027
1	23°10.2'	2968	53°29.0'	2951	61°29.1'	3043	29°01.8'	4026	107°22.7'	3030
2	23°40.5'	2970	53°59.4'	2953	61°58.9'	3045	28°38.0'	4063	107°52.5'	3032
3	24°10.8'	2972	54°29.8'	2956	62°28.6'	3047	28°14.5'	4101	108°22.4'	3035
4	24°41.1'	2975	55°00.1'	2958	62°58.4'	3049	27°51.1'	4141	108°52.2'	3038
5	25°11.3'	2977	55°30.5'	2960	63°28.1'	3050	27°28.0'	4183	109°22.0'	3040
6	25°41.5'	2979	56°00.9'	2963	63°57.8'	3052	27°05.1'	4227	109°51.8'	3043
7	26°11.7'	2982	56°31.2'	2965	64°27.5'	3054	26°42.5'	4273	110°21.6'	3045
8	26°41.9'	2984	57°01.5'	2967	64°57.2'	3056	26°20.0'	4322	110°51.4'	3048
9	27°12.1'	2986	57°31.8'	2969	65°26.9'	3058	25°57.8'	4373	111°21.1'	3050
10	27°42.3'	2988	58°02.1'	2971	65°56.6'	3060	25°35.9'	4426	111°50.8'	3053
11	28°12.5'	2990	58°32.4'	2974	66°26.3'	3062	25°14.3'	4483	112°20.5'	3055
12	28°42.6'	2992	59°02.6'	2976	66°55.9'	3063	24°52.9'	4542	112°50.2'	3058
13	29°12.7'	2994	59°32.8'	2978	67°25.5'	3065	24°31.8'	4605	113°19.9'	3060
14	29°42.8'	2996	60°03.1'	2980	67°55.2'	3067	24°11.0'	4672	113°49.6'	3063
15	30°12.9'	2998	60°33.3'	2982	68°24.8'	3069	23°50.6'	4742	114°19.2'	3065
16	30°43.0'	3000	61°03.5'	2984	68°54.4'	3070	23°30.4'	4816	114°48.8'	3067
17	31°13.1'	3002	61°33.7'	2986	69°24.0'	3072	23°10.6'	4894	115°18.4'	3070
18	31°43.1'	3004	62°03.8'	2987	69°53.5'	3073	22°51.2'	4977	115°48.0'	3072
19	32°13.2'	3006	62°34.0'	2989	70°23.1'	3075	22°32.1'	5066	116°17.6'	3074
20	32°43.2'	3008	63°04.1'	2991	70°52.7'	3077	22°13.4'	5159	116°47.2'	3076
21	33°13.2'	3010	63°34.3'	2993	71°22.2'	3078	21°55.1'	5259	117°16.7'	3078
22	33°43.2'	3011	64°04.4'	2995	71°51.8'	3080	21°37.3'	5365	117°46.2'	3081
23	34°13.2'	3013	64°34.5'	2996	72°21.3'	3081	21°19.8'	5478	118°15.8'	3083

Sat Jun 22, 2019 UTC

UTC	+Saturn		+Jupiter		+Antares		-Aldebaran		+Spica	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	34°43.2'	3015	65°04.6'	2998	72°50.8'	3083	106°35.2'	3042	118°45.3'	3085
1	35°13.2'	3016	65°34.7'	3000	73°20.3'	3084	106°05.4'	3044	119°14.8'	3087
2	35°43.1'	3018	66°04.8'	3001	73°49.8'	3085	105°35.7'	3046	119°44.2'	3089
3	36°13.1'	3019	66°34.8'	3003	74°19.3'	3087	105°05.9'	3047	120°13.7'	3091
4	36°43.0'	3021	67°04.9'	3004	74°48.8'	3088	104°36.2'	3049	120°43.1'	3093
5	37°12.9'	3022	67°34.9'	3006	75°18.2'	3089	104°06.4'	3050	121°12.6'	3095
6	37°42.9'	3024	68°05.0'	3007	75°47.7'	3091	103°36.7'	3051	121°42.0'	3097
7	38°12.8'	3025	68°35.0'	3008	76°17.1'	3092	103°07.0'	3053	122°11.4'	3099
8	38°42.7'	3026	69°05.0'	3010	76°46.6'	3093	102°37.3'	3054	122°40.8'	3101
9	39°12.6'	3028	69°35.0'	3011	77°16.0'	3094	102°07.6'	3055	123°10.2'	3103
10	39°42.4'	3029	70°05.0'	3012	77°45.4'	3095	101°37.9'	3057	123°39.5'	3105
11	40°12.3'	3030	70°35.0'	3013	78°14.9'	3096	101°08.2'	3058	124°08.9'	3106
12	40°42.2'	3031	71°05.0'	3015	78°44.3'	3097	100°38.5'	3059	124°38.2'	3108
13	41°12.0'	3032	71°34.9'	3016	79°13.7'	3098	100°08.9'	3060	125°07.6'	3110
14	41°41.9'	3033	72°04.9'	3017	79°43.1'	3099	99°39.2'	3061	125°36.9'	3112
15	42°11.7'	3034	72°34.8'	3018	80°12.5'	3100	99°09.6'	3062	126°06.2'	3114
16	42°41.6'	3035	73°04.8'	3019	80°41.8'	3101	98°39.9'	3063	126°35.5'	3115
17	43°11.4'	3036	73°34.7'	3020	81°11.2'	3102	98°10.3'	3064	127°04.8'	3117
18	43°41.2'	3037	74°04.7'	3021	81°40.6'	3103	97°40.7'	3065	127°34.0'	3119
19	44°11.0'	3038	74°34.6'	3022	82°10.0'	3104	97°11.0'	3066	128°03.3'	3120
20	44°40.8'	3039	75°04.5'	3022	82°39.3'	3104	96°41.4'	3067	128°32.6'	3122
21	45°10.6'	3040	75°34.4'	3023	83°08.7'	3105	96°11.8'	3068	129°01.8'	3124
22	45°40.4'	3040	76°04.3'	3024	83°38.0'	3106	95°42.2'	3068	129°31.0'	3125
23	46°10.2'	3041	76°34.2'	3025	84°07.4'	3106	95°12.6'	3069	130°00.2'	3127

Sun Jun 23, 2019 UTC

UTC	−Sun		+Saturn		+Jupiter		+Antares		−Aldebaran	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	116°16.9′	3432	46°40.0′	3042	77°04.1′	3025	84°36.7′	3107	94°43.0′	3070
1	115°49.7′	3432	47°09.8′	3042	77°34.0′	3026	85°06.1′	3107	94°13.4′	3070
2	115°22.4′	3433	47°39.6′	3043	78°03.9′	3026	85°35.4′	3108	93°43.8′	3071
3	114°55.2′	3434	48°09.3′	3043	78°33.8′	3027	86°04.7′	3108	93°14.2′	3071
4	114°28.0′	3434	48°39.1′	3044	79°03.7′	3027	86°34.1′	3109	92°44.7′	3072
5	114°00.8′	3434	49°08.9′	3044	79°33.6′	3028	87°03.4′	3109	92°15.1′	3072
6	113°33.6′	3435	49°38.7′	3044	80°03.5′	3028	87°32.7′	3109	91°45.5′	3073
7	113°06.4′	3435	50°08.4′	3045	80°33.3′	3028	88°02.1′	3110	91°15.9′	3073
8	112°39.2′	3435	50°38.2′	3045	81°03.2′	3029	88°31.4′	3110	90°46.4′	3073
9	112°12.0′	3435	51°07.9′	3045	81°33.1′	3029	89°00.7′	3110	90°16.8′	3073
10	111°44.8′	3436	51°37.7′	3045	82°03.0′	3029	89°30.0′	3110	89°47.2′	3073
11	111°17.6′	3436	52°07.5′	3045	82°32.8′	3029	89°59.3′	3110	89°17.7′	3074
12	110°50.4′	3436	52°37.2′	3045	83°02.7′	3029	90°28.6′	3110	88°48.1′	3074
13	110°23.2′	3436	53°07.0′	3045	83°32.6′	3029	90°58.0′	3110	88°18.5′	3074
14	109°56.0′	3436	53°36.7′	3045	84°02.4′	3029	91°27.3′	3110	87°49.0′	3074
15	109°28.8′	3436	54°06.5′	3045	84°32.3′	3029	91°56.6′	3110	87°19.4′	3074
16	109°01.6′	3435	54°36.3′	3045	85°02.2′	3029	92°25.9′	3110	86°49.8′	3073
17	108°34.4′	3435	55°06.0′	3045	85°32.1′	3029	92°55.2′	3110	86°20.3′	3073
18	108°07.1′	3435	55°35.8′	3045	86°01.9′	3029	93°24.5′	3110	85°50.7′	3073
19	107°39.9′	3434	56°05.5′	3044	86°31.8′	3028	93°53.9′	3110	85°21.1′	3073
20	107°12.7′	3434	56°35.3′	3044	87°01.7′	3028	94°23.2′	3109	84°51.6′	3072
21	106°45.5′	3434	57°05.1′	3044	87°31.5′	3028	94°52.5′	3109	84°22.0′	3072
22	106°18.3′	3433	57°34.8′	3043	88°01.4′	3027	95°21.8′	3109	83°52.4′	3071
23	105°51.1′	3433	58°04.6′	3043	88°31.3′	3027	95°51.2′	3108	83°22.8′	3071

Mon Jun 24, 2019 UTC

UTC	−Sun		+Saturn		−Aldebaran		+Jupiter		+Antares	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	105°23.9′	3432	58°34.4′	3042	82°53.2′	3070	89°01.2′	3026	96°20.5′	3108
1	104°56.6′	3431	59°04.2′	3041	82°23.6′	3070	89°31.1′	3026	96°49.8′	3107
2	104°29.4′	3431	59°34.0′	3041	81°54.1′	3069	90°01.0′	3025	97°19.2′	3107
3	104°02.2′	3430	60°03.8′	3040	81°24.5′	3069	90°30.9′	3024	97°48.5′	3106
4	103°34.9′	3429	60°33.6′	3039	80°54.9′	3068	91°00.8′	3024	98°17.9′	3105
5	103°07.7′	3428	61°03.4′	3039	80°25.3′	3067	91°30.7′	3023	98°47.2′	3105
6	102°40.5′	3427	61°33.2′	3038	79°55.6′	3066	92°00.6′	3022	99°16.6′	3104
7	102°13.2′	3426	62°03.0′	3037	79°26.0′	3065	92°30.5′	3021	99°45.9′	3103
8	101°45.9′	3425	62°32.8′	3036	78°56.4′	3064	93°00.4′	3020	100°15.3′	3102
9	101°18.7′	3424	63°02.6′	3035	78°26.8′	3063	93°30.4′	3019	100°44.7′	3101
10	100°51.4′	3423	63°32.4′	3034	77°57.1′	3062	94°00.3′	3018	101°14.0′	3101
11	100°24.1′	3421	64°02.3′	3033	77°27.5′	3061	94°30.3′	3017	101°43.4′	3100
12	99°56.8′	3420	64°32.1′	3031	76°57.8′	3060	95°00.2′	3016	102°12.8′	3099
13	99°29.5′	3419	65°02.0′	3030	76°28.2′	3059	95°30.2′	3015	102°42.2′	3098
14	99°02.2′	3417	65°31.8′	3029	75°58.5′	3057	96°00.1′	3014	103°11.6′	3096
15	98°34.9′	3416	66°01.7′	3028	75°28.8′	3056	96°30.1′	3012	103°41.0′	3095
16	98°07.6′	3414	66°31.6′	3026	74°59.2′	3055	97°00.1′	3011	104°10.4′	3094
17	97°40.2′	3413	67°01.5′	3025	74°29.5′	3053	97°30.1′	3010	104°39.9′	3093
18	97°12.9′	3411	67°31.4′	3023	73°59.8′	3052	98°00.1′	3008	105°09.3′	3092
19	96°45.5′	3409	68°01.3′	3022	73°30.0′	3050	98°30.1′	3007	105°38.7′	3090
20	96°18.2′	3408	68°31.2′	3020	73°00.3′	3049	99°00.1′	3005	106°08.2′	3089
21	95°50.8′	3406	69°01.2′	3018	72°30.6′	3047	99°30.2′	3003	106°37.7′	3087
22	95°23.4′	3404	69°31.1′	3017	72°00.8′	3045	100°00.2′	3002	107°07.1′	3086
23	94°56.0′	3402	70°01.1′	3015	71°31.1′	3044	100°30.3′	3000	107°36.6′	3084

Tue Jun 25, 2019 UTC

UTC	−Sun		+Saturn		−Aldebaran		+Formalhaut		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	94°28.6′	3400	70°31.0′	3013	71°01.3′	3042	28°46.7′	4062	101°00.4′	2998
1	94°01.2′	3398	71°01.0′	3011	70°31.5′	3040	29°10.2′	4028	101°30.4′	2997
2	93°33.7′	3396	71°31.0′	3009	70°01.7′	3038	29°33.9′	3996	102°00.5′	2995
3	93°06.3′	3394	72°01.0′	3007	69°31.9′	3036	29°57.9′	3965	102°30.6′	2993
4	92°38.8′	3392	72°31.0′	3005	69°02.1′	3034	30°21.9′	3936	103°00.8′	2991
5	92°11.3′	3389	73°01.1′	3003	68°32.3′	3032	30°46.2′	3908	103°30.9′	2989
6	91°43.9′	3387	73°31.1′	3001	68°02.4′	3030	31°10.6′	3881	104°01.1′	2987
7	91°16.3′	3385	74°01.2′	2999	67°32.6′	3028	31°35.1′	3854	104°31.2′	2985
8	90°48.8′	3382	74°31.2′	2997	67°02.7′	3026	31°59.8′	3829	105°01.4′	2982
9	90°21.3′	3380	75°01.3′	2995	66°32.8′	3024	32°24.7′	3805	105°31.6′	2980
10	89°53.7′	3377	75°31.4′	2992	66°02.9′	3021	32°49.7′	3782	106°01.8′	2978
11	89°26.2′	3375	76°01.6′	2990	65°32.9′	3019	33°14.8′	3759	106°32.0′	2976
12	88°58.6′	3372	76°31.7′	2987	65°03.0′	3016	33°40.0′	3737	107°02.3′	2973
13	88°31.0′	3369	77°01.9′	2985	64°33.1′	3014	34°05.4′	3716	107°32.5′	2971
14	88°03.4′	3367	77°32.0′	2982	64°03.1′	3012	34°30.9′	3696	108°02.8′	2968
15	87°35.7′	3364	78°02.2′	2980	63°33.1′	3009	34°56.5′	3676	108°33.1′	2966
16	87°08.1′	3361	78°32.5′	2977	63°03.1′	3006	35°22.2′	3657	109°03.4′	2963
17	86°40.4′	3358	79°02.7′	2975	62°33.0′	3004	35°48.1′	3639	109°33.7′	2961
18	86°12.7′	3355	79°32.9′	2972	62°03.0′	3001	36°14.1′	3621	110°04.1′	2958
19	85°45.0′	3352	80°03.2′	2969	61°32.9′	2998	36°40.1′	3604	110°34.4′	2955
20	85°17.3′	3349	80°33.5′	2966	61°02.9′	2995	37°06.3′	3587	111°04.8′	2952
21	84°49.5′	3346	81°03.8′	2963	60°32.8′	2993	37°32.6′	3570	111°35.2′	2950
22	84°21.7′	3342	81°34.1′	2960	60°02.6′	2990	37°58.9′	3554	112°05.6′	2947
23	83°53.9′	3339	82°04.5′	2957	59°32.5′	2987	38°25.4′	3539	112°36.1′	2944

Wed Jun 26, 2019 UTC

UTC	−Sun		−Aldebaran		+Formalhaut		+Saturn		+Jupiter	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	83°26.1′	3336	59°02.3′	2984	38°52.0′	3524	82°34.8′	2954	113°06.5′	2941
1	82°58.3′	3332	58°32.1′	2981	39°18.6′	3509	83°05.2′	2951	113°37.0′	2938
2	82°30.4′	3329	58°01.9′	2978	39°45.4′	3495	83°35.6′	2948	114°07.5′	2935
3	82°02.6′	3326	57°31.7′	2975	40°12.2′	3481	84°06.1′	2945	114°38.1′	2932
4	81°34.7′	3322	57°01.5′	2971	40°39.1′	3467	84°36.5′	2942	115°08.6′	2929
5	81°06.7′	3319	56°31.2′	2968	41°06.1′	3454	85°07.0′	2939	115°39.2′	2925
6	80°38.8′	3315	56°00.9′	2965	41°33.2′	3441	85°37.5′	2935	116°09.8′	2922
7	80°10.8′	3311	55°30.6′	2962	42°00.4′	3428	86°08.0′	2932	116°40.4′	2919
8	79°42.8′	3307	55°00.2′	2958	42°27.6′	3416	86°38.6′	2928	117°11.0′	2916
9	79°14.8′	3304	54°29.9′	2955	42°54.9′	3404	87°09.1′	2925	117°41.7′	2912
10	78°46.8′	3300	53°59.5′	2951	43°22.3′	3392	87°39.7′	2921	118°12.4′	2909
11	78°18.7′	3296	53°29.1′	2948	43°49.8′	3380	88°10.3′	2918	118°43.1′	2905
12	77°50.6′	3292	52°58.7′	2944	44°17.4′	3368	88°41.0′	2914	119°13.8′	2902
13	77°22.5′	3288	52°28.2′	2941	44°45.0′	3357	89°11.7′	2911	119°44.6′	2898
14	76°54.4′	3284	51°57.7′	2937	45°12.7′	3346	89°42.4′	2907	120°15.4′	2895
15	76°26.2′	3280	51°27.2′	2933	45°40.5′	3335	90°13.1′	2903	120°46.2′	2891
16	75°58.0′	3276	50°56.7′	2930	46°08.3′	3324	90°43.8′	2899	121°17.0′	2887
17	75°29.8′	3272	50°26.1′	2926	46°36.2′	3314	91°14.6′	2896	121°47.9′	2884
18	75°01.5′	3268	49°55.5′	2922	47°04.2′	3304	91°45.4′	2892	122°18.7′	2880
19	74°33.3′	3263	49°24.9′	2918	47°32.2′	3293	92°16.2′	2888	122°49.7′	2876
20	74°05.0′	3259	48°54.3′	2914	48°00.3′	3283	92°47.1′	2884	123°20.6′	2872
21	73°36.6′	3255	48°23.6′	2911	48°28.5′	3273	93°18.0′	2880	123°51.6′	2868
22	73°08.3′	3250	47°52.9′	2907	48°56.7′	3264	93°48.9′	2876	124°22.6′	2864
23	72°39.9′	3246	47°22.2′	2903	49°25.0′	3254	94°19.8′	2872	124°53.6′	2860

Thu Jun 27, 2019 UTC

UTC	-Sun		-Aldebaran		+Formalhaut		+Saturn		-Capella	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	72°11.5'	3241	46°51.4'	2899	49°53.4'	3244	94°50.8'	2868	64°12.7'	3438
1	71°43.0'	3237	46°20.6'	2895	50°21.8'	3235	95°21.8'	2864	63°45.5'	3438
2	71°14.6'	3232	45°49.8'	2890	50°50.3'	3226	95°52.8'	2859	63°18.3'	3439
3	70°46.0'	3228	45°19.0'	2886	51°18.9'	3217	96°23.9'	2855	62°51.1'	3440
4	70°17.5'	3223	44°48.1'	2882	51°47.5'	3208	96°55.0'	2851	62°23.9'	3441
5	69°48.9'	3218	44°17.2'	2878	52°16.1'	3199	97°26.1'	2847	61°56.8'	3442
6	69°20.3'	3213	43°46.3'	2874	52°44.9'	3190	97°57.3'	2842	61°29.6'	3443
7	68°51.7'	3209	43°15.3'	2869	53°13.6'	3181	98°28.5'	2838	61°02.5'	3445
8	68°23.1'	3204	42°44.3'	2865	53°42.5'	3172	98°59.7'	2833	60°35.3'	3446
9	67°54.4'	3199	42°13.3'	2861	54°11.4'	3164	99°30.9'	2829	60°08.2'	3448
10	67°25.6'	3194	41°42.3'	2856	54°40.3'	3155	100°02.2'	2824	59°41.1'	3450
11	66°56.9'	3189	41°11.2'	2852	55°09.4'	3147	100°33.5'	2820	59°13.9'	3452
12	66°28.1'	3184	40°40.1'	2847	55°38.4'	3139	101°04.9'	2815	58°46.8'	3454
13	65°59.3'	3179	40°08.9'	2843	56°07.6'	3130	101°36.2'	2811	58°19.8'	3456
14	65°30.4'	3174	39°37.7'	2839	56°36.7'	3122	102°07.6'	2806	57°52.7'	3459
15	65°01.5'	3169	39°06.5'	2834	57°06.0'	3114	102°39.1'	2801	57°25.6'	3461
16	64°32.6'	3164	38°35.3'	2829	57°35.3'	3106	103°10.6'	2797	56°58.6'	3464
17	64°03.6'	3159	38°04.0'	2825	58°04.6'	3098	103°42.1'	2792	56°31.6'	3467
18	63°34.7'	3154	37°32.7'	2820	58°34.0'	3090	104°13.6'	2787	56°04.6'	3471
19	63°05.6'	3148	37°01.4'	2816	59°03.5'	3082	104°45.2'	2782	55°37.6'	3474
20	62°36.6'	3143	36°30.0'	2811	59°33.0'	3074	105°16.8'	2777	55°10.6'	3478
21	62°07.5'	3138	35°58.6'	2806	60°02.5'	3067	105°48.5'	2773	54°43.7'	3482
22	61°38.3'	3132	35°27.1'	2802	60°32.1'	3059	106°20.2'	2768	54°16.8'	3486
23	61°09.2'	3127	34°55.7'	2797	61°01.8'	3051	106°51.9'	2763	53°49.9'	3490

Fri Jun 28, 2019 UTC

UTC	-Sun		-Aldebaran		+Formalhaut		-Capella		+Saturn	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	60°40.0'	3122	34°24.2'	2792	61°31.5'	3044	53°23.0'	3495	107°23.7'	2758
1	60°10.7'	3116	33°52.6'	2788	62°01.3'	3036	52°56.2'	3500	107°55.5'	2753
2	59°41.4'	3111	33°21.0'	2783	62°31.1'	3029	52°29.4'	3505	108°27.3'	2748
3	59°12.1'	3105	32°49.4'	2778	63°01.0'	3021	52°02.6'	3511	108°59.2'	2743
4	58°42.8'	3100	32°17.8'	2773	63°30.9'	3014	51°35.9'	3517	109°31.1'	2738
5	58°13.4'	3094	31°46.1'	2769	64°00.9'	3006	51°09.2'	3523	110°03.0'	2733
6	57°44.0'	3089	31°14.4'	2764	64°30.9'	2999	50°42.5'	3530	110°35.0'	2727
7	57°14.5'	3083	30°42.6'	2759	65°01.0'	2992	50°15.9'	3537	111°07.0'	2722
8	56°45.0'	3077	30°10.8'	2754	65°31.1'	2984	49°49.3'	3544	111°39.1'	2717
9	56°15.5'	3072	29°39.0'	2750	66°01.3'	2977	49°22.8'	3552	112°11.2'	2712
10	55°45.9'	3066	29°07.2'	2745	66°31.5'	2970	48°56.3'	3560	112°43.3'	2707
11	55°16.3'	3061	28°35.3'	2740	67°01.8'	2963	48°29.9'	3569	113°15.5'	2701
12	54°46.6'	3055	28°03.3'	2735	67°32.2'	2956	48°03.5'	3578	113°47.7'	2696
13	54°16.9'	3049	27°31.4'	2731	68°02.5'	2949	47°37.2'	3587	114°19.9'	2691
14	53°47.2'	3043	26°59.4'	2726	68°33.0'	2942	47°10.9'	3597	114°52.2'	2686
15	53°17.4'	3038	26°27.4'	2721	69°03.4'	2935	46°44.7'	3608	115°24.6'	2680
16	52°47.6'	3032	25°55.3'	2716	69°34.0'	2928	46°18.6'	3619	115°56.9'	2675
17	52°17.7'	3026	25°23.2'	2712	70°04.5'	2921	45°52.5'	3631	116°29.3'	2670
18	51°47.9'	3020	24°51.1'	2707	70°35.2'	2914	45°26.5'	3643	117°01.8'	2664
19	51°17.9'	3014	24°18.9'	2703	71°05.8'	2907	45°00.6'	3656	117°34.3'	2659
20	50°47.9'	3008	23°46.7'	2698	71°36.6'	2900	44°34.7'	3669	118°06.8'	2653
21	50°17.9'	3003	23°14.4'	2693	72°07.3'	2893	44°08.9'	3684	118°39.4'	2648
22	49°47.9'	2997	22°42.2'	2689	72°38.2'	2887	43°43.2'	3698	119°12.0'	2643
23	49°17.8'	2991	22°09.9'	2685	73°09.0'	2880	43°17.6'	3714	119°44.6'	2637

Sat Jun 29, 2019 UTC

UTC	-Sun		-Aldebaran		+Formalhaut		-Capella		+Altair	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	48°47.7'	2985	21°37.5'	2680	73°39.9'	2873	42°52.1'	3731	106°25.9'	3370
1	48°17.5'	2979	21°05.2'	2676	74°10.9'	2866	42°26.7'	3748	106°53.5'	3368
2	47°47.3'	2973	20°32.8'	2672	74°41.9'	2860	42°01.4'	3766	107°21.2'	3367
3	47°17.0'	2967	20°00.3'	2668	75°13.0'	2853	41°36.2'	3785	107°48.8'	3366
4	46°46.7'	2961	19°27.9'	2664	75°44.1'	2847	41°11.1'	3805	108°16.4'	3365
5	46°16.4'	2955	18°55.4'	2660	76°15.2'	2840	40°46.1'	3826	108°44.1'	3364
6	45°46.0'	2949	18°22.9'	2657	76°46.4'	2834	40°21.2'	3848	109°11.7'	3364
7	45°15.6'	2943	17°50.3'	2653	77°17.7'	2827	39°56.5'	3871	109°39.4'	3363
8	44°45.1'	2937	17°17.8'	2650	77°49.0'	2821	39°31.9'	3895	110°07.1'	3363
9	44°14.6'	2931	16°45.2'	2647	78°20.3'	2814	39°07.4'	3921	110°34.7'	3363
10	43°44.0'	2925	16°12.5'	2644	78°51.7'	2808	38°43.1'	3947	111°02.4'	3363
11	43°13.4'	2919	15°39.9'	2642	79°23.1'	2802	38°18.9'	3976	111°30.0'	3363
12	42°42.8'	2913	15°07.2'	2640	79°54.6'	2795	37°54.9'	4005	111°57.7'	3364
13	42°12.1'	2907	14°34.6'	2638	80°26.1'	2789	37°31.0'	4036	112°25.4'	3364
14	41°41.4'	2901	14°01.9'	2637	80°57.7'	2783	37°07.3'	4069	112°53.0'	3365
15	41°10.6'	2895	13°29.2'	2636	81°29.3'	2777	36°43.8'	4103	113°20.6'	3366
16	40°39.8'	2889	12°56.5'	2636	82°00.9'	2771	36°20.5'	4139	113°48.3'	3368
17	40°09.0'	2883	12°23.8'	2637	82°32.6'	2765	35°57.4'	4177	114°15.9'	3369
18	39°38.1'	2877	11°51.1'	2639	83°04.4'	2759	35°34.4'	4217	114°43.5'	3371
19	39°07.2'	2871	11°18.4'	2642	83°36.2'	2753	35°11.7'	4259	115°11.1'	3373
20	38°36.2'	2865	10°45.8'	2646	84°08.0'	2747	34°49.2'	4303	115°38.7'	3375
21	38°05.2'	2859	10°13.1'	2652	84°39.9'	2741	34°26.9'	4349	116°06.3'	3377
22	37°34.1'	2853	9°40.6'	2661	85°11.8'	2735	34°04.9'	4398	116°33.9'	3380
23	37°03.0'	2848	9°08.1'	2671	85°43.8'	2729	33°43.1'	4450	117°01.5'	3383

Sun Jun 30, 2019 UTC

UTC	-Aldebaran		+Formalhaut		-Capella		+Altair		+Achernar	
	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.	Lunar Dist.	P.L.
0	8°35.6'	2686	86°15.8'	2723	33°21.6'	4504	117°29.0'	3386	79°37.8'	5061
1	8°03.3'	2705	86°47.8'	2717	33°00.3'	4561	117°56.5'	3390	79°56.5'	5047
2	7°31.1'	2729	87°19.9'	2712	32°39.3'	4622	118°24.0'	3394	80°15.2'	5032
3	6°59.1'	2762	87°52.1'	2706	32°18.6'	4685	118°51.4'	3398	80°34.1'	5018
4	6°27.3'	2805	88°24.2'	2700	31°58.2'	4753	119°18.9'	3402	80°53.0'	5004
5	5°55.9'	2863	88°56.5'	2695	31°38.1'	4823	119°46.3'	3407	81°11.9'	4990
6	5°24.8'	2943	89°28.7'	2689	31°18.4'	4898	120°13.7'	3412	81°30.9'	4977
7	4°54.4'	3055	90°01.0'	2684	30°58.9'	4978	120°41.0'	3418	81°50.0'	4964
8	-	-	90°33.4'	2678	30°39.9'	5062	121°08.3'	3424	82°09.1'	4952
9	-	-	91°05.7'	2673	30°21.2'	5150	121°35.6'	3430	82°28.3'	4940
10	-	-	91°38.2'	2668	30°02.8'	5244	122°02.9'	3436	82°47.6'	4928
11	-	-	92°10.6'	2663	29°44.9'	5344	122°30.1'	3443	83°06.9'	4916
12	-	-	92°43.1'	2657	29°27.4'	5450	122°57.2'	3451	83°26.2'	4905
13	-	-	93°15.7'	2652	29°10.3'	5562	123°24.3'	3459	83°45.6'	4894
14	-	-	93°48.2'	2647	28°53.6'	5681	123°51.4'	3467	84°05.0'	4883
15	-	-	94°20.9'	2642	28°37.4'	5808	124°18.4'	3476	84°24.5'	4873
16	-	-	94°53.5'	2637	28°21.6'	5943	124°45.3'	3485	84°44.1'	4863
17	-	-	95°26.2'	2632	28°06.3'	6087	125°12.2'	3495	85°03.6'	4853
18	-	-	95°58.9'	2627	27°51.6'	6241	125°39.1'	3505	85°23.3'	4844
19	-	-	96°31.7'	2623	27°37.3'	6406	126°05.8'	3516	85°42.9'	4835
20	-	-	97°04.5'	2618	27°23.6'	6582	126°32.5'	3527	86°02.7'	4826
21	-	-	97°37.3'	2613	27°10.4'	6771	126°59.2'	3539	86°22.4'	4817
22	-	-	98°10.2'	2609	26°57.8'	6975	127°25.7'	3551	86°42.2'	4809
23	5°14.8'	2791	98°43.1'	2604	26°45.7'	7194	127°52.2'	3565	87°02.0'	4802