

NOVEMBER 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
1 UT	+Jupiter	+Procyon	+Regulus	+Mars	–Sun
0	75 58.7 2571	70 26.1 2634	36 31.0 2598	27 1.0 2854	32 25.3 2884
3	77 38.2 2554	72 4.2 2616	38 10.0 2578	28 34.3 2826	30 52.7 2865
6	79 18.2 2538	73 42.8 2598	39 49.4 2559	30 8.2 2800	29 19.6 2848
9	80 58.5 2522	75 21.7 2582	41 29.2 2541	31 42.7 2776	27 46.2 2832
12	82 39.2 2506	77 1.0 2565	43 9.5 2522	33 17.6 2752	26 12.5 2815
15	84 20.3 2490	78 40.8 2549	44 50.1 2505	34 53.2 2729	24 38.3 2799
18	86 1.8 2475	80 20.8 2532	46 31.2 2487	36 29.2 2708	23 3.8 2782
21	87 43.6 2459	82 1.3 2517	48 12.7 2471	38 5.6 2688	21 29.0 2766
2 UT	+Jupiter	+Procyon	+Regulus	+Mars	–Sun
0	89 25.7 2445	83 42.1 2501	49 54.6 2454	39 42.6 2668	19 53.8 2750
3	91 8.2 2430	85 23.3 2486	51 36.9 2438	41 19.9 2649	18 18.2 2734
6	92 51.1 2416	87 4.8 2472	53 19.6 2423	42 57.7 2631	16 42.3 2720
9	94 34.3 2401	88 46.7 2458	55 2.6 2407	44 36.0 2613	15 6.1 2704
12	96 17.8 2388	90 28.9 2444	56 46.0 2393	46 14.6 2596	13 29.6 2690
15	98 1.7 2374	92 11.4 2431	58 29.8 2378	47 53.6 2579	11 52.7 2676
18	99 45.9 2362	93 54.3 2418	60 13.9 2364	49 33.0 2564	10 15.5 2663
21	101 30.4 2349	95 37.4 2406	61 58.3 2351	51 12.7 2549	8 38.0 2651
4 UT	+Sun	–Venus	–Kaus Aust.	–Nunki	–Altair
0	6 13.4 2549	41 1.4 2643	48 36.2 2535	54 50.5 2301	75 42.1 2658
3	7 53.4 2540	39 23.4 2642	46 55.8 2545	53 4.6 2296	74 4.5 2658
6	9 33.7 2530	37 45.5 2642	45 15.6 2558	51 18.5 2292	72 26.9 2659
9	11 14.2 2522	36 7.5 2644	43 35.8 2575	49 32.4 2290	70 49.3 2662
12	12 54.9 2515	34 29.6 2649	41 56.3 2595	47 46.1 2288	69 11.8 2666
15	14 35.8 2508	32 51.8 2655	40 17.2 2619	45 59.8 2287	67 34.4 2672
18	16 16.8 2501	31 14.2 2665	38 38.8 2648	44 13.5 2287	65 57.1 2680
21	17 58.0 2496	29 36.7 2677	37 0.9 2683	42 27.2 2289	64 20.0 2690
5 UT	+Sun	–Venus	–Nunki	–Altair	–Enif
0	19 39.3 2491	27 59.5 2695	40 41.0 2292	62 43.1 2702	88 60.0 2382
3	21 20.7 2487	26 22.8 2717	38 54.8 2297	61 6.5 2716	87 16.0 2378
6	23 2.3 2482	24 46.5 2746	37 8.8 2305	59 30.2 2734	85 31.9 2376
9	24 43.9 2479	23 10.9 2782	35 22.9 2314	57 54.3 2753	83 47.7 2374
12	26 25.6 2477	21 36.0 2830	33 37.3 2326	56 18.8 2777	82 3.5 2373
15	28 7.3 2474	20 2.2 2891	31 51.9 2340	54 43.9 2802	80 19.3 2373
18	29 49.2 2473	18 29.7 2972	30 6.9 2359	53 9.5 2832	78 35.1 2375
21	31 31.0 2472	16 58.9 3081	28 22.4 2383	51 35.7 2866	76 50.9 2377
6 UT	+Sun	–Nunki	–Enif	–Fomalhaut	–Markab
0	33 12.9 2471	26 38.4 2412	75 6.8 2380	79 22.4 2642	95 22.0 2329
3	34 54.8 2471	24 55.1 2449	73 22.8 2384	77 44.5 2649	93 36.7 2328
6	36 36.6 2472	23 12.7 2495	71 38.8 2389	76 6.7 2656	91 51.4 2328
9	38 18.5 2472	21 31.4 2554	69 55.0 2395	74 29.0 2666	90 6.1 2329
12	40 0.4 2475	19 51.4 2631	68 11.3 2403	72 51.6 2678	88 20.8 2331
15	41 42.2 2475	18 13.2 2732	66 27.8 2411	71 14.5 2690	86 35.6 2333
18	43 24.0 2479	16 37.3 2870	64 44.5 2421	69 37.6 2705	84 50.4 2337
21	45 5.7 2481	15 4.3 3060	63 1.4 2432	68 1.1 2722	83 5.3 2340

NOVEMBER 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
7 UT	+Sun	–Enif	–Fomalhaut	–Markab	–Diphda
0	46 47.3 2485	61 18.6 2444	66 24.9 2741	81 20.3 2345	92 49.3 2560
3	48 28.9 2488	59 36.1 2458	64 49.2 2761	79 35.4 2350	91 9.5 2563
6	50 10.4 2492	57 53.9 2473	63 13.9 2783	77 50.7 2356	89 29.7 2566
9	51 51.8 2497	56 12.1 2490	61 39.0 2809	76 6.0 2363	87 50.1 2572
12	53 33.0 2502	54 30.6 2508	60 4.8 2837	74 21.6 2371	86 10.5 2578
15	55 14.2 2507	52 49.6 2529	58 31.1 2867	72 37.3 2379	84 31.1 2585
18	56 55.3 2512	51 9.0 2551	56 58.1 2900	70 53.3 2389	82 51.9 2593
21	58 36.2 2518	49 29.0 2576	55 25.8 2937	69 9.4 2399	81 12.8 2603
8 UT	+Sun	+Venus	–Markab	–Diphda	–Hamal
0	60 17.0 2524	15 54.5 3096	67 25.8 2410	79 33.9 2613	110 37.1 2286
3	61 57.6 2531	17 22.8 3002	65 42.5 2421	77 55.3 2624	108 50.8 2291
6	63 38.1 2538	18 52.9 2932	63 59.5 2434	76 17.0 2637	107 4.6 2296
9	65 18.4 2545	20 24.6 2879	62 16.7 2447	74 38.9 2650	105 18.5 2301
12	66 58.6 2552	21 57.3 2839	60 34.2 2462	73 1.1 2666	103 32.6 2307
15	68 38.6 2559	23 30.9 2808	58 52.1 2477	71 23.7 2681	101 46.7 2313
18	70 18.4 2567	25 5.2 2785	57 10.4 2494	69 46.7 2699	100 1.1 2319
21	71 58.1 2575	26 40.0 2767	55 29.1 2512	68 10.0 2718	98 15.6 2326
9 UT	+Sun	+Venus	+Nunki	–Markab	–Hamal
0	73 37.6 2584	28 15.2 2753	19 43.4 2663	53 48.1 2532	96 30.2 2333
3	75 16.8 2592	29 50.7 2743	21 20.9 2612	52 7.7 2552	94 45.0 2340
6	76 55.9 2600	31 26.4 2736	22 59.5 2574	50 27.7 2575	93 0.0 2348
9	78 34.9 2609	33 2.2 2731	24 39.0 2544	48 48.2 2599	91 15.2 2355
12	80 13.6 2618	34 38.2 2729	26 19.2 2523	47 9.3 2626	89 30.6 2364
15	81 52.1 2626	36 14.2 2727	27 59.8 2507	45 30.9 2654	87 46.2 2372
18	83 30.4 2635	37 50.2 2727	29 40.9 2494	43 53.3 2685	86 1.9 2380
21	85 8.5 2644	39 26.3 2728	31 22.2 2485	42 16.3 2719	84 17.9 2389
10 UT	+Sun	+Kaus Aust.	+Venus	+Nunki	–Hamal
0	86 46.4 2653	42 19.1 2692	41 2.3 2731	33 3.8 2479	82 34.1 2399
3	88 24.1 2662	43 56.0 2677	42 38.3 2733	34 45.5 2475	80 50.5 2407
6	90 1.6 2672	45 33.1 2667	44 14.2 2738	36 27.3 2473	79 7.1 2417
9	91 38.9 2681	47 10.5 2658	45 50.0 2742	38 9.1 2472	77 23.9 2426
12	93 16.0 2690	48 48.1 2651	47 25.7 2747	39 51.0 2473	75 41.0 2436
15	94 52.8 2700	50 25.9 2645	49 1.4 2752	41 32.8 2474	73 58.2 2446
18	96 29.5 2709	52 3.8 2641	50 36.9 2757	43 14.6 2477	72 15.8 2456
21	98 5.9 2718	53 41.8 2639	52 12.2 2763	44 56.4 2480	70 33.5 2466
11 UT	+Sun	+Venus	+Nunki	–Hamal	–Aldebaran
0	99 42.2 2728	53 47.5 2770	46 38.1 2484	68 51.5 2477	101 52.7 2405
3	101 18.2 2738	55 22.6 2776	48 19.7 2488	67 9.8 2488	100 9.2 2414
6	102 54.1 2747	56 57.6 2783	50 1.1 2493	65 28.3 2498	98 26.0 2422
9	104 29.7 2756	58 32.4 2790	51 42.5 2498	63 47.0 2509	96 42.9 2431
12	106 5.1 2766	60 7.1 2797	53 23.8 2504	62 6.0 2521	95 0.1 2439
15	107 40.3 2775	61 41.6 2805	55 4.9 2510	60 25.3 2532	93 17.5 2448
18	109 15.3 2785	63 15.9 2812	56 45.9 2516	58 44.9 2544	91 35.0 2457
21	110 50.1 2794	64 50.1 2820	58 26.7 2522	57 4.7 2557	89 52.8 2466

NOVEMBER 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
12 UT	+Sun	+Venus	+Nunki	–Hamal	–Aldebaran
0	112 24.7 2803	66 24.1 2827	60 7.4 2529	55 24.8 2569	88 10.8 2474
3	113 59.0 2813	67 58.0 2836	61 48.0 2535	53 45.2 2582	86 29.0 2483
6	115 33.2 2822	69 31.7 2843	63 28.4 2542	52 5.9 2596	84 47.4 2491
9	117 7.2 2832	71 5.2 2852	65 8.6 2550	50 26.8 2610	83 6.0 2500
12	118 41.0 2841	72 38.6 2859	66 48.7 2556	48 48.2 2624	81 24.8 2509
15	120 14.5 2850	74 11.8 2867	68 28.6 2564	47 9.8 2640	79 43.8 2517
18	121 47.9 2859	75 44.7 2875	70 8.3 2571	45 31.8 2656	78 3.0 2526
21	123 21.1 2869	77 17.6 2884	71 47.9 2579	43 54.2 2673	76 22.4 2534
13 UT	+Venus	–Aldebaran	–Elnath	–Betelgeuse	–Jupiter
0	78 50.2 2892	74 42.0 2543	86 43.0 2593	94 3.4 2632	114 39.5 2552
3	80 22.7 2901	73 1.7 2552	85 4.0 2602	92 25.3 2641	112 59.5 2560
6	81 55.0 2908	71 21.7 2560	83 25.1 2611	90 47.3 2649	111 19.7 2567
9	83 27.1 2917	69 41.9 2569	81 46.5 2620	89 9.5 2658	109 40.0 2575
12	84 59.1 2926	68 2.3 2578	80 8.0 2629	87 31.9 2667	108 0.6 2584
15	86 30.8 2934	66 22.9 2586	78 29.8 2638	85 54.5 2675	106 21.3 2591
18	88 2.4 2943	64 43.6 2595	76 51.7 2647	84 17.3 2684	104 42.2 2599
21	89 33.8 2951	63 4.6 2603	75 13.9 2656	82 40.3 2693	103 3.3 2607
14 UT	+Venus	–Aldebaran	–Elnath	–Betelgeuse	–Jupiter
0	91 5.0 2960	61 25.8 2612	73 36.3 2666	81 3.5 2703	101 24.5 2616
3	92 36.1 2969	59 47.1 2620	71 58.9 2675	79 26.9 2712	99 46.0 2623
6	94 6.9 2977	58 8.7 2629	70 21.6 2685	77 50.5 2722	98 7.6 2632
9	95 37.6 2986	56 30.4 2637	68 44.7 2695	76 14.3 2731	96 29.4 2640
12	97 8.1 2996	54 52.4 2646	67 7.9 2705	74 38.4 2742	94 51.4 2648
15	98 38.4 3005	53 14.5 2655	65 31.3 2715	73 2.6 2752	93 13.6 2656
18	100 8.5 3013	51 36.9 2663	63 55.0 2725	71 27.1 2762	91 35.9 2664
21	101 38.4 3023	49 59.4 2673	62 18.9 2736	69 51.8 2773	89 58.5 2673
15 UT	+Venus	–Aldebaran	–Elnath	–Betelgeuse	–Jupiter
0	103 8.2 3032	48 22.1 2681	60 43.1 2747	68 16.8 2784	88 21.2 2681
3	104 37.7 3041	46 45.1 2691	59 7.5 2758	66 42.0 2795	86 44.2 2689
6	106 7.0 3051	45 8.2 2699	57 32.1 2769	65 7.4 2807	85 7.3 2698
9	107 36.2 3060	43 31.5 2708	55 57.0 2780	63 33.1 2818	83 30.6 2706
12	109 5.2 3070	41 55.0 2718	54 22.1 2793	61 59.0 2831	81 54.0 2715
15	110 33.9 3080	40 18.8 2727	52 47.5 2805	60 25.2 2843	80 17.7 2723
18	112 2.5 3089	38 42.7 2736	51 13.1 2817	58 51.7 2856	78 41.6 2732
21	113 30.9 3099	37 6.9 2746	49 39.0 2830	57 18.5 2870	77 5.6 2741
16 UT	+Markab	–Aldebaran	–Betelgeuse	–Jupiter	–Procyon
0	44 40.0 3080	35 31.2 2755	55 45.5 2883	75 29.9 2749	81 31.3 2822
3	46 8.6 3071	33 55.8 2765	54 12.9 2898	73 54.3 2758	79 57.3 2831
6	47 37.3 3063	32 20.6 2775	52 40.5 2913	72 18.9 2766	78 23.5 2841
9	49 6.2 3058	30 45.6 2785	51 8.5 2928	70 43.7 2775	76 49.9 2850
12	50 35.2 3054	29 10.8 2796	49 36.8 2945	69 8.7 2784	75 16.6 2860
15	52 4.3 3050	27 36.3 2807	48 5.4 2962	67 33.9 2793	73 43.4 2870
18	53 33.5 3048	26 2.0 2818	46 34.4 2980	65 59.3 2802	72 10.5 2880
21	55 2.7 3047	24 27.9 2830	45 3.8 2999	64 24.9 2811	70 37.8 2891

NOVEMBER 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
17 UT	+Markab	–Aldebaran	–Jupiter	–Pollux	–Procyon
0	56 31.9 3048	22 54.1 2843	62 50.7 2820	66 11.6 2922	69 5.3 2901
3	58 1.1 3048	21 20.6 2857	61 16.7 2829	64 39.8 2934	67 33.0 2912
6	59 30.3 3049	19 47.4 2871	59 42.9 2838	63 8.2 2946	66 0.9 2923
9	60 59.5 3051	18 14.5 2888	58 9.3 2848	61 36.9 2958	64 29.1 2934
12	62 28.7 3054	16 41.9 2907	56 35.8 2857	60 5.8 2970	62 57.5 2945
15	63 57.8 3057	15 9.7 2929	55 2.6 2866	58 35.0 2983	61 26.2 2957
18	65 26.8 3061	13 38.1 2958	53 29.6 2876	57 4.4 2996	59 55.1 2969
21	66 55.7 3064	12 7.0 2993	51 56.8 2885	55 34.1 3010	58 24.2 2981
18 UT	+Hamal	–Jupiter	–Pollux	–Procyon	–Regulus
0	25 1.5 3252	50 24.1 2895	54 4.1 3024	56 53.6 2994	90 5.8 2897
3	26 26.6 3222	48 51.7 2904	52 34.4 3038	55 23.3 3006	88 33.4 2905
6	27 52.3 3198	47 19.5 2914	51 5.0 3053	53 53.2 3019	87 1.2 2914
9	29 18.5 3178	45 47.5 2924	49 35.9 3069	52 23.4 3033	85 29.2 2922
12	30 45.1 3163	44 15.7 2934	48 7.1 3085	50 53.9 3047	83 57.4 2931
15	32 12.0 3150	42 44.1 2944	46 38.7 3102	49 24.7 3061	82 25.7 2939
18	33 39.1 3141	41 12.7 2954	45 10.6 3121	47 55.7 3076	80 54.3 2947
21	35 6.4 3133	39 41.6 2965	43 42.8 3140	46 27.1 3092	79 23.0 2955
19 UT	+Hamal	–Jupiter	–Pollux	–Procyon	–Regulus
0	36 33.9 3127	38 10.6 2975	42 15.5 3159	44 58.8 3108	77 51.8 2963
3	38 1.5 3123	36 39.9 2986	40 48.5 3181	43 30.8 3126	76 20.8 2971
6	39 29.2 3120	35 9.4 2998	39 22.0 3204	42 3.2 3144	74 50.0 2979
9	40 57.0 3118	33 39.2 3009	37 55.9 3228	40 35.9 3163	73 19.4 2987
12	42 24.7 3117	32 9.1 3021	36 30.3 3255	39 9.1 3184	71 48.9 2995
15	43 52.6 3116	30 39.4 3034	35 5.3 3284	37 42.6 3206	70 18.6 3002
18	45 20.4 3117	29 9.9 3048	33 40.8 3317	36 16.6 3230	68 48.5 3010
21	46 48.2 3117	27 40.7 3062	32 16.9 3352	34 51.0 3256	67 18.5 3017
20 UT	+Hamal	+Aldebaran	–Jupiter	–Regulus	–Mars
0	48 16.0 3118	14 21.8 3071	26 11.7 3079	65 48.6 3024	86 17.1 3227
3	49 43.8 3119	15 50.5 3066	24 43.2 3095	64 18.9 3031	84 51.5 3233
6	51 11.5 3121	17 19.3 3063	23 14.9 3115	62 49.3 3038	83 26.0 3239
9	52 39.3 3123	18 48.2 3062	21 47.1 3138	61 19.9 3045	82 0.6 3246
12	54 6.9 3125	20 17.2 3062	20 19.7 3164	59 50.6 3052	80 35.4 3252
15	55 34.6 3127	21 46.1 3063	18 52.8 3194	58 21.5 3058	79 10.3 3258
18	57 2.2 3129	23 15.0 3065	17 26.6 3232	56 52.5 3064	77 45.3 3263
21	58 29.7 3132	24 43.8 3067	16 1.0 3279	55 23.6 3070	76 20.4 3269
21 UT	+Hamal	+Menkar	+Aldebaran	–Regulus	–Mars
0	59 57.3 3134	51 44.4 3199	26 12.7 3070	53 54.9 3076	74 55.6 3274
3	61 24.7 3136	53 10.6 3198	27 41.4 3072	52 26.2 3082	73 30.9 3279
6	62 52.1 3138	54 36.8 3197	29 10.2 3075	50 57.7 3088	72 6.3 3284
9	64 19.5 3140	56 3.0 3196	30 38.8 3077	49 29.3 3093	70 41.8 3289
12	65 46.9 3142	57 29.2 3195	32 7.4 3079	48 1.0 3099	69 17.4 3293
15	67 14.2 3143	58 55.5 3194	33 36.0 3081	46 32.8 3103	67 53.1 3296
18	68 41.4 3145	60 21.7 3194	35 4.6 3083	45 4.7 3108	66 28.8 3300
21	70 8.7 3146	61 48.0 3193	36 33.0 3085	43 36.7 3113	65 4.6 3304

NOVEMBER 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
22 UT	+Hamal	+Aldebaran	+Elnath	–Regulus	–Mars
0	71 35.9 3148	38 1.5 3087	27 23.2 3335	42 8.8 3118	63 40.5 3306
3	73 3.1 3148	39 29.9 3088	28 46.7 3313	40 41.1 3122	62 16.5 3309
6	74 30.3 3149	40 58.3 3089	30 10.7 3295	39 13.4 3127	60 52.5 3311
9	75 57.4 3149	42 26.7 3090	31 34.9 3279	37 45.8 3132	59 28.5 3313
12	77 24.6 3149	43 55.0 3090	32 59.5 3265	36 18.2 3136	58 4.6 3315
15	78 51.7 3149	45 23.4 3090	34 24.4 3252	34 50.8 3141	56 40.7 3316
18	80 18.9 3149	46 51.8 3090	35 49.5 3240	33 23.5 3146	55 16.8 3317
21	81 46.1 3148	48 20.1 3089	37 14.9 3229	31 56.3 3151	53 52.9 3318
23 UT	+Aldebaran	+Betelgeuse	+Jupiter	–Mars	–Sun
0	49 48.5 3088	32 20.8 3416	11 12.6 3496	52 29.1 3318	120 40.8 3470
3	51 16.9 3086	33 42.8 3390	12 33.0 3404	51 5.3 3318	119 19.9 3469
6	52 45.3 3085	35 5.2 3366	13 55.2 3337	49 41.4 3317	117 58.9 3468
9	54 13.8 3082	36 28.1 3345	15 18.7 3287	48 17.6 3317	116 37.9 3465
12	55 42.3 3080	37 51.4 3325	16 43.1 3248	46 53.7 3316	115 16.9 3463
15	57 10.8 3077	39 15.1 3307	18 8.3 3216	45 29.8 3314	113 55.8 3460
18	58 39.5 3073	40 39.2 3289	19 34.1 3190	44 5.9 3313	112 34.6 3456
21	60 8.2 3069	42 3.6 3274	21 0.5 3169	42 42.0 3311	111 13.4 3452
24 UT	+Aldebaran	+Betelgeuse	+Jupiter	–Mars	–Sun
0	61 36.9 3064	43 28.3 3258	22 27.3 3149	41 18.0 3308	109 52.2 3447
3	63 5.8 3060	44 53.3 3243	23 54.4 3132	39 54.0 3307	108 30.8 3443
6	64 34.8 3054	46 18.6 3228	25 21.9 3116	38 30.0 3304	107 9.3 3436
9	66 3.9 3049	47 44.2 3215	26 49.8 3102	37 5.8 3302	105 47.7 3431
12	67 33.1 3043	49 10.0 3201	28 17.9 3089	35 41.7 3299	104 26.0 3424
15	69 2.4 3035	50 36.1 3187	29 46.2 3075	34 17.5 3296	103 4.2 3416
18	70 31.9 3029	52 2.5 3175	31 14.9 3063	32 53.2 3295	101 42.3 3410
21	72 1.5 3021	53 29.2 3162	32 43.8 3051	31 28.9 3291	100 20.2 3401
25 UT	+Betelgeuse	+Jupiter	+Procyon	–Mars	–Sun
0	54 56.1 3148	34 13.0 3038	29 29.4 3339	30 4.6 3290	98 57.9 3392
3	56 23.3 3134	35 42.4 3026	30 52.9 3302	28 40.2 3288	97 35.5 3383
6	57 50.7 3122	37 12.0 3014	32 17.0 3269	27 15.8 3288	96 12.9 3374
9	59 18.4 3108	38 42.0 3002	33 41.8 3238	25 51.4 3289	94 50.2 3363
12	60 46.4 3094	40 12.1 2989	35 7.2 3210	24 27.0 3291	93 27.2 3353
15	62 14.7 3081	41 42.6 2976	36 33.1 3183	23 2.6 3295	92 4.0 3341
18	63 43.2 3067	43 13.3 2963	37 59.6 3158	21 38.4 3302	90 40.7 3330
21	65 12.1 3053	44 44.2 2950	39 26.6 3134	20 14.2 3313	89 17.1 3317
26 UT	+Betelgeuse	+Jupiter	+Procyon	–Mars	–Sun
0	66 41.2 3038	46 15.5 2936	40 54.1 3110	18 50.3 3330	87 53.2 3305
3	68 10.6 3024	47 47.0 2923	42 22.0 3088	17 26.7 3354	86 29.1 3292
6	69 40.3 3009	49 18.8 2909	43 50.4 3066	16 3.5 3387	85 4.8 3278
9	71 10.3 2994	50 50.9 2895	45 19.2 3045	14 41.0 3436	83 40.2 3264
12	72 40.6 2979	52 23.3 2880	46 48.5 3023	13 19.4 3508	82 15.3 3250
15	74 11.3 2964	53 56.1 2865	48 18.2 3003	11 59.2 3616	80 50.1 3235
18	75 42.2 2949	55 29.1 2851	49 48.4 2983	10 40.9 3780	79 24.7 3220
21	77 13.5 2933	57 2.5 2835	51 18.9 2962	9 25.6 4040	77 59.0 3204

NOVEMBER 2013

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
27 UT	+Jupiter	+Pollux	+Procyon	+Regulus	-Sun
0	58 36.2 2819	55 53.5 2952	52 49.9 2942	18 52.0 2990	76 32.9 3188
3	60 10.2 2803	57 24.7 2932	54 21.3 2922	20 22.4 2951	75 6.5 3172
6	61 44.6 2787	58 56.3 2913	55 53.2 2902	21 53.7 2917	73 39.8 3155
9	63 19.3 2770	60 28.3 2893	57 25.4 2882	23 25.6 2886	72 12.8 3137
12	64 54.4 2753	62 0.8 2873	58 58.1 2863	24 58.2 2857	70 45.4 3121
15	66 29.9 2736	63 33.7 2853	60 31.2 2842	26 31.5 2829	69 17.6 3102
18	68 5.8 2719	65 7.0 2834	62 4.8 2823	28 5.3 2803	67 49.5 3084
21	69 42.0 2701	66 40.7 2814	63 38.7 2803	29 39.7 2779	66 21.0 3066
28 UT	+Jupiter	+Pollux	+Procyon	+Regulus	-Sun
0	71 18.6 2684	68 14.9 2794	65 13.1 2783	31 14.6 2755	64 52.2 3048
3	72 55.6 2665	69 49.4 2774	66 47.9 2763	32 50.0 2731	63 23.0 3028
6	74 33.1 2648	71 24.4 2755	68 23.2 2744	34 26.0 2709	61 53.4 3010
9	76 10.9 2629	72 59.9 2735	69 58.9 2724	36 2.4 2687	60 23.4 2990
12	77 49.1 2611	74 35.8 2715	71 35.0 2704	37 39.4 2665	58 53.0 2971
15	79 27.8 2592	76 12.1 2695	73 11.6 2684	39 16.8 2643	57 22.2 2951
18	81 6.9 2574	77 48.8 2676	74 48.6 2664	40 54.7 2623	55 50.9 2932
21	82 46.3 2556	79 26.0 2657	76 26.0 2645	42 33.1 2601	54 19.3 2913
29 UT	+Jupiter	+Procyon	+Regulus	+Mars	-Sun
0	84 26.3 2537	78 3.9 2625	44 12.0 2580	19 12.5 2890	52 47.3 2893
3	86 6.6 2518	79 42.3 2605	45 51.4 2559	20 45.0 2847	51 14.8 2873
6	87 47.4 2500	81 21.0 2587	47 31.2 2539	22 18.5 2809	49 41.9 2854
9	89 28.6 2481	83 0.3 2567	49 11.5 2519	23 52.7 2774	48 8.6 2834
12	91 10.3 2463	84 39.9 2549	50 52.3 2499	25 27.7 2742	46 34.9 2815
15	92 52.4 2443	86 20.0 2529	52 33.5 2479	27 3.5 2712	45 0.8 2795
18	94 34.9 2426	88 0.5 2511	54 15.2 2460	28 39.9 2684	43 26.2 2777
21	96 17.9 2407	89 41.5 2492	55 57.3 2440	30 16.9 2657	41 51.3 2757
30 UT	+Jupiter	+Regulus	+Mars	+Spica	-Sun
0	98 1.3 2389	57 39.9 2421	31 54.5 2632	3 49.4 2468	40 15.9 2738
3	99 45.1 2371	59 23.0 2402	33 32.7 2608	5 31.3 2416	38 40.1 2720
6	101 29.3 2353	61 6.5 2383	35 11.4 2584	7 14.5 2383	37 3.9 2702
9	103 14.0 2337	62 50.5 2365	36 50.7 2561	8 58.5 2358	35 27.2 2684
12	104 59.1 2319	64 34.9 2347	38 30.5 2539	10 43.1 2336	33 50.2 2667
15	106 44.6 2302	66 19.8 2329	40 10.8 2518	12 28.2 2316	32 12.8 2650
18	108 30.5 2286	68 5.0 2312	41 51.6 2498	14 13.8 2298	30 35.1 2634
21	110 16.9 2270	69 50.7 2295	43 32.8 2478	15 59.8 2280	28 56.9 2619