

NOVEMBER 2014

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
1 UT	+Sun	+Shaula	+Kaus Aust.	+Mars	+Nunki
0	101 36.6 2594	57 52.3 2601	47 16.1 2603	46 22.0 2564	38 20.7 2403
3	103 15.6 2589	59 31.2 2584	48 54.9 2581	48 1.7 2557	40 4.2 2390
6	104 54.8 2584	61 10.5 2569	50 34.3 2561	49 41.6 2550	41 48.0 2377
9	106 34.0 2580	62 50.1 2556	52 14.1 2543	51 21.7 2543	43 32.1 2366
12	108 13.4 2576	64 30.0 2544	53 54.3 2527	53 1.9 2537	45 16.5 2356
15	109 52.8 2572	66 10.2 2532	55 34.8 2512	54 42.2 2532	47 1.1 2347
18	111 32.4 2568	67 50.7 2521	57 15.8 2498	56 22.7 2526	48 46.0 2338
21	113 12.0 2565	69 31.4 2512	58 57.0 2486	58 3.3 2522	50 31.0 2331
2 UT	+Kaus Aust.	+Mars	+Nunki	+Altair	-Aldebaran
0	60 38.6 2474	59 44.0 2517	52 16.3 2324	39 58.9 3335	95 55.0 2246
3	62 20.4 2464	61 24.8 2513	54 1.7 2317	41 22.4 3257	94 7.7 2243
6	64 2.4 2455	63 5.8 2509	55 47.2 2311	42 47.4 3187	92 20.3 2241
9	65 44.7 2447	64 46.8 2506	57 32.9 2306	44 13.8 3126	90 32.9 2238
12	67 27.1 2439	66 27.8 2502	59 18.8 2301	45 41.4 3070	88 45.4 2236
15	69 9.8 2432	68 9.0 2499	61 4.7 2297	47 10.2 3021	86 57.9 2234
18	70 52.6 2426	69 50.2 2497	62 50.8 2294	48 39.9 2977	85 10.3 2233
21	72 35.5 2421	71 31.5 2495	64 36.9 2290	50 10.6 2938	83 22.6 2231
3 UT	+Kaus Aust.	+Mars	+Nunki	+Altair	-Aldebaran
0	74 18.6 2417	73 12.8 2494	66 23.1 2288	51 42.1 2903	81 34.9 2230
3	76 1.8 2413	74 54.2 2493	68 9.4 2286	53 14.4 2871	79 47.3 2229
6	77 45.0 2410	76 35.5 2492	69 55.7 2284	54 47.3 2843	77 59.5 2229
9	79 28.3 2408	78 16.9 2491	71 42.1 2283	56 20.8 2817	76 11.8 2230
12	81 11.7 2407	79 58.4 2492	73 28.5 2282	57 54.9 2795	74 24.1 2230
15	82 55.1 2406	81 39.8 2492	75 14.9 2282	59 29.5 2775	72 36.4 2230
18	84 38.5 2406	83 21.2 2493	77 1.3 2282	61 4.5 2757	70 48.7 2231
21	86 22.0 2407	85 2.5 2495	78 47.7 2283	62 39.9 2742	69 1.0 2233
4 UT	+Kaus Aust.	+Nunki	+Altair	+Enif	-Aldebaran
0	88 5.4 2408	80 34.1 2284	64 15.6 2728	36 29.6 2906	67 13.4 2234
3	89 48.8 2410	82 20.5 2286	65 51.6 2717	38 1.8 2857	65 25.8 2237
6	91 32.1 2413	84 6.8 2288	67 27.9 2707	39 35.0 2814	63 38.3 2240
9	93 15.3 2416	85 53.1 2291	69 4.4 2699	41 9.2 2777	61 50.8 2242
12	94 58.5 2421	87 39.3 2294	70 41.1 2693	42 44.2 2745	60 3.4 2246
15	96 41.6 2426	89 25.4 2298	72 17.9 2687	44 19.8 2717	58 16.1 2250
18	98 24.5 2432	91 11.5 2302	73 54.8 2684	45 56.1 2695	56 28.9 2254
21	100 7.3 2438	92 57.4 2307	75 31.8 2681	47 32.9 2674	54 41.8 2259
5 UT	+Altair	+Enif	+Fomalhaut	+Markab	-Aldebaran
0	77 8.9 2681	49 10.1 2658	47 16.8 3095	30 5.5 3128	52 54.8 2264
3	78 46.0 2681	50 47.7 2643	48 45.1 3056	31 33.1 3049	51 7.9 2269
6	80 23.1 2683	52 25.6 2632	50 14.1 3022	33 2.3 2984	49 21.2 2275
9	82 0.1 2685	54 3.8 2622	51 43.9 2992	34 32.8 2928	47 34.6 2281
12	83 37.1 2689	55 42.2 2615	53 14.3 2966	36 4.5 2882	45 48.2 2289
15	85 14.0 2694	57 20.8 2609	54 45.2 2944	37 37.2 2843	44 1.9 2296
18	86 50.8 2700	58 59.5 2605	56 16.5 2925	39 10.7 2810	42 15.8 2304
21	88 27.4 2708	60 38.3 2603	57 48.3 2909	40 44.9 2783	40 29.9 2312

NOVEMBER 2014

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
6 UT	+Altair	+Enif	+Fomalhaut	+Markab	–Aldebaran
0	90 3.9 2716	62 17.2 2601	59 20.4 2896	42 19.8 2760	38 44.3 2320
3	91 40.2 2726	63 56.0 2602	60 52.8 2885	43 55.1 2742	36 58.8 2329
6	93 16.3 2736	65 34.9 2603	62 25.4 2877	45 30.8 2727	35 13.5 2339
9	94 52.2 2747	67 13.7 2606	63 58.2 2870	47 6.9 2714	33 28.5 2348
12	96 27.8 2760	68 52.5 2610	65 31.2 2865	48 43.2 2705	31 43.6 2359
15	98 3.1 2774	70 31.2 2615	67 4.2 2863	50 19.8 2698	29 59.1 2370
18	99 38.1 2789	72 9.7 2620	68 37.3 2862	51 56.5 2693	28 14.8 2381
21	101 12.8 2805	73 48.2 2627	70 10.4 2862	53 33.3 2690	26 30.8 2393
7 UT	+Enif	+Fomalhaut	+Markab	–Jupiter	–Regulus
0	75 26.5 2635	71 43.6 2864	55 10.2 2689	95 41.9 2445	104 40.9 2411
3	77 4.6 2643	73 16.7 2867	56 47.1 2689	93 59.4 2456	102 57.6 2422
6	78 42.5 2652	74 49.7 2871	58 24.0 2691	92 17.2 2468	101 14.6 2434
9	80 20.2 2662	76 22.6 2877	60 0.8 2694	90 35.2 2480	99 31.8 2446
12	81 57.7 2673	77 55.4 2884	61 37.6 2698	88 53.6 2493	97 49.4 2458
15	83 35.0 2684	79 28.0 2892	63 14.3 2704	87 12.2 2506	96 7.2 2471
18	85 12.0 2696	81 0.5 2901	64 50.9 2710	85 31.1 2519	94 25.3 2484
21	86 48.8 2709	82 32.8 2911	66 27.3 2717	83 50.3 2532	92 43.7 2497
8 UT	+Markab	–Pollux	–Jupiter	–Alphard	–Regulus
0	68 3.6 2725	55 13.7 2642	82 9.9 2546	87 18.3 2723	91 2.4 2511
3	69 39.7 2734	53 35.8 2662	80 29.7 2559	85 42.1 2738	89 21.5 2524
6	71 15.6 2743	51 58.3 2683	78 49.9 2574	84 6.3 2753	87 40.8 2538
9	72 51.3 2754	50 21.2 2705	77 10.4 2588	82 30.8 2769	86 0.5 2552
12	74 26.7 2764	48 44.7 2728	75 31.2 2602	80 55.7 2785	84 20.5 2567
15	76 2.0 2776	47 8.6 2752	73 52.3 2617	79 20.9 2802	82 40.8 2581
18	77 37.0 2788	45 33.1 2777	72 13.8 2632	77 46.5 2819	81 1.5 2596
21	79 11.7 2800	43 58.2 2804	70 35.6 2647	76 12.5 2837	79 22.5 2610
9 UT	–Pollux	–Procyon	–Jupiter	–Alphard	–Regulus
0	42 23.8 2832	44 25.7 2780	68 57.8 2662	74 38.8 2856	77 43.8 2626
3	40 50.0 2861	42 50.8 2804	67 20.3 2677	73 5.6 2875	76 5.5 2640
6	39 16.9 2893	41 16.5 2832	65 43.1 2692	71 32.7 2895	74 27.5 2655
9	37 44.5 2927	39 42.7 2859	64 6.3 2707	70 0.3 2914	72 49.9 2670
12	36 12.7 2964	38 9.5 2890	62 29.8 2723	68 28.3 2935	71 12.5 2686
15	34 41.8 3003	36 37.0 2922	60 53.6 2738	66 56.8 2956	69 35.6 2700
18	33 11.6 3047	35 5.2 2956	59 17.8 2753	65 25.7 2978	67 58.9 2715
21	31 42.4 3094	33 34.1 2994	57 42.3 2769	63 55.0 3001	66 22.6 2730
10 UT	+Hamal	+Menkar	+Aldebaran	–Jupiter	–Regulus
0	49 34.8 2883	41 5.2 2891	15 20.8 2747	56 7.2 2785	64 46.6 2745
3	51 7.4 2891	42 37.7 2896	16 56.5 2758	54 32.4 2800	63 10.9 2760
6	52 39.9 2899	44 10.1 2902	18 31.8 2770	52 58.0 2816	61 35.6 2775
9	54 12.2 2908	45 42.4 2909	20 6.9 2783	51 23.9 2831	60 0.6 2790
12	55 44.4 2917	47 14.5 2916	21 41.8 2795	49 50.1 2846	58 25.9 2805
15	57 16.3 2926	48 46.5 2923	23 16.3 2809	48 16.6 2862	56 51.6 2819
18	58 48.1 2936	50 18.3 2932	24 50.6 2821	46 43.5 2877	55 17.6 2834
21	60 19.6 2946	51 49.9 2940	26 24.6 2834	45 10.7 2892	53 43.8 2848

NOVEMBER 2014

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
11 UT	+Markab	+Aldebaran	–Jupiter	–Regulus	–Denebola
0	105 15.8 3055	27 58.3 2847	43 38.2 2908	52 10.4 2862	75 18.0 2995
3	106 44.9 3072	29 31.8 2860	42 6.1 2923	50 37.3 2876	73 47.6 3011
6	108 13.6 3089	31 4.9 2872	40 34.3 2938	49 4.5 2890	72 17.7 3026
9	109 42.0 3105	32 37.8 2884	39 2.8 2954	47 32.0 2904	70 48.0 3041
12	111 10.0 3122	34 10.5 2896	37 31.6 2969	45 59.7 2917	69 18.6 3057
15	112 37.7 3140	35 42.9 2908	36 0.8 2985	44 27.8 2931	67 49.6 3073
18	114 5.1 3157	37 15.0 2919	34 30.3 3001	42 56.1 2944	66 20.9 3088
21	115 32.1 3175	38 46.9 2930	33 0.1 3016	41 24.8 2957	64 52.5 3104
12 UT	+Aldebaran	–Jupiter	–Regulus	–Denebola	–Sun
0	40 18.6 2941	31 30.2 3032	39 53.7 2970	63 24.5 3120	118 53.2 3316
3	41 50.0 2952	30 0.7 3050	38 22.8 2983	61 56.7 3136	117 29.4 3328
6	43 21.2 2961	28 31.5 3067	36 52.3 2995	60 29.3 3151	116 5.7 3338
9	44 52.3 2971	27 2.7 3085	35 22.0 3009	59 2.2 3168	114 42.3 3349
12	46 23.1 2980	25 34.2 3105	33 51.9 3021	57 35.4 3184	113 19.0 3360
15	47 53.7 2989	24 6.2 3126	32 22.2 3034	56 8.9 3201	111 56.0 3370
18	49 24.1 2998	22 38.6 3149	30 52.7 3047	54 42.8 3218	110 33.2 3379
21	50 54.3 3006	21 11.4 3175	29 23.4 3060	53 17.0 3234	109 10.5 3388
13 UT	+Aldebaran	+Betelgeuse	–Jupiter	–Denebola	–Sun
0	52 24.4 3014	34 48.6 3265	19 44.8 3205	51 51.5 3252	107 48.0 3397
3	53 54.3 3021	36 13.4 3255	18 18.7 3240	50 26.4 3269	106 25.7 3405
6	55 24.1 3028	37 38.5 3247	16 53.4 3284	49 1.6 3289	105 3.5 3413
9	56 53.7 3035	39 3.7 3239	15 28.9 3337	47 37.2 3307	103 41.5 3420
12	58 23.2 3041	40 29.1 3233	14 5.4 3406	46 13.2 3328	102 19.6 3426
15	59 52.5 3046	41 54.5 3227	12 43.3 3498	44 49.5 3348	100 57.8 3432
18	61 21.8 3051	43 20.1 3224	11 22.8 3629	43 26.3 3371	99 36.1 3438
21	62 51.0 3056	44 45.8 3219	10 4.8 3820	42 3.5 3395	98 14.6 3443
14 UT	+Aldebaran	+Betelgeuse	–Denebola	–Gienah	–Sun
0	64 20.0 3059	46 11.6 3215	40 41.1 3419	56 14.5 3246	96 53.1 3448
3	65 49.0 3063	47 37.4 3211	39 19.2 3448	54 49.2 3257	95 31.8 3452
6	67 17.9 3067	49 3.4 3208	37 57.8 3477	53 24.2 3268	94 10.5 3455
9	68 46.7 3069	50 29.4 3204	36 37.0 3509	51 59.4 3278	92 49.2 3457
12	70 15.5 3071	51 55.4 3201	35 16.8 3545	50 34.8 3290	91 28.1 3461
15	71 44.2 3073	53 21.5 3198	33 57.2 3584	49 10.4 3301	90 6.9 3462
18	73 12.9 3074	54 47.7 3194	32 38.4 3629	47 46.2 3314	88 45.8 3464
21	74 41.6 3074	56 14.0 3191	31 20.3 3678	46 22.3 3326	87 24.8 3464
15 UT	+Betelgeuse	+Jupiter	–Denebola	–Gienah	–Sun
0	57 40.3 3187	6 45.5 4545	30 3.1 3736	44 58.6 3340	86 3.7 3465
3	59 6.7 3183	7 48.7 4087	28 47.0 3800	43 35.2 3354	84 42.7 3464
6	60 33.2 3179	8 58.9 3810	27 32.0 3876	42 12.1 3370	83 21.6 3463
9	61 59.7 3175	10 13.8 3631	26 18.3 3964	40 49.3 3387	82 0.5 3462
12	63 26.4 3171	11 31.8 3510	25 6.0 4067	39 26.7 3406	80 39.4 3461
15	64 53.1 3166	12 52.0 3424	23 55.4 4190	38 4.6 3426	79 18.3 3458
18	66 19.9 3161	14 13.8 3360	22 46.9 4336	36 42.8 3449	77 57.1 3455
21	67 46.8 3155	15 36.8 3311	21 40.5 4513	35 21.5 3475	76 35.9 3452

NOVEMBER 2014

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
16 UT	+Procyon	+Jupiter	+Regulus	–Gienah	–Sun
0	43 28.7 3220	17 0.8 3272	9 8.1 3548	34 0.6 3505	75 14.6 3447
3	44 54.4 3208	18 25.5 3241	10 27.6 3423	32 40.3 3538	73 53.2 3443
6	46 20.4 3196	19 50.9 3214	11 49.4 3336	31 20.6 3577	72 31.8 3438
9	47 46.6 3184	21 16.7 3191	13 12.9 3274	30 1.7 3622	71 10.2 3433
12	49 13.1 3172	22 43.0 3171	14 37.6 3226	28 43.5 3674	69 48.6 3426
15	50 39.8 3160	24 9.8 3152	16 3.2 3188	27 26.3 3735	68 26.8 3420
18	52 6.7 3149	25 36.9 3137	17 29.6 3158	26 10.1 3809	67 4.9 3414
21	53 33.9 3137	27 4.3 3121	18 56.6 3132	24 55.2 3895	65 42.9 3406
17 UT	+Pollux	+Procyon	+Jupiter	+Regulus	–Sun
0	57 26.3 3141	55 1.3 3126	28 32.0 3106	20 24.1 3110	64 20.8 3399
3	58 53.6 3129	56 28.9 3114	30 0.0 3092	21 52.1 3090	62 58.5 3391
6	60 21.1 3117	57 56.8 3102	31 28.3 3078	23 20.4 3071	61 36.1 3382
9	61 48.9 3106	59 24.9 3090	32 56.9 3065	24 49.2 3055	60 13.4 3373
12	63 17.0 3093	60 53.2 3078	34 25.8 3052	26 18.2 3038	58 50.7 3364
15	64 45.3 3082	62 21.8 3067	35 54.9 3039	27 47.6 3024	57 27.7 3354
18	66 13.8 3069	63 50.6 3054	37 24.3 3025	29 17.4 3009	56 4.6 3344
21	67 42.6 3057	65 19.7 3042	38 54.0 3013	30 47.4 2995	54 41.2 3334
18 UT	+Pollux	+Procyon	+Jupiter	+Regulus	–Sun
0	69 11.6 3044	66 49.1 3030	40 23.9 3000	32 17.7 2981	53 17.7 3323
3	70 40.9 3032	68 18.7 3017	41 54.1 2987	33 48.3 2967	51 54.0 3313
6	72 10.4 3019	69 48.5 3005	43 24.6 2974	35 19.2 2953	50 30.0 3301
9	73 40.2 3006	71 18.6 2993	44 55.3 2961	36 50.4 2939	49 5.9 3289
12	75 10.3 2993	72 48.9 2979	46 26.3 2948	38 21.8 2926	47 41.5 3278
15	76 40.6 2981	74 19.6 2967	47 57.6 2935	39 53.6 2913	46 16.9 3267
18	78 11.2 2968	75 50.5 2953	49 29.2 2921	41 25.6 2898	44 52.1 3254
21	79 42.1 2955	77 21.7 2941	51 1.1 2908	42 58.0 2885	43 27.0 3242
19 UT	+Pollux	+Procyon	+Jupiter	+Regulus	–Sun
0	81 13.2 2942	78 53.1 2927	52 33.2 2894	44 30.6 2871	42 1.7 3230
3	82 44.7 2928	80 24.8 2914	54 5.6 2880	46 3.5 2858	40 36.1 3217
6	84 16.4 2916	81 56.8 2901	55 38.4 2867	47 36.7 2844	39 10.3 3205
9	85 48.3 2903	83 29.1 2888	57 11.4 2853	49 10.2 2830	37 44.3 3192
12	87 20.6 2890	85 1.7 2875	58 44.7 2839	50 44.0 2816	36 18.0 3180
15	88 53.1 2876	86 34.5 2861	60 18.3 2825	52 18.1 2802	34 51.4 3167
18	90 25.9 2863	88 7.6 2848	61 52.2 2812	53 52.5 2789	33 24.6 3156
21	91 59.0 2850	89 41.0 2835	63 26.4 2798	55 27.2 2775	31 57.6 3144
20 UT	+Jupiter	+Alphard	+Regulus	+Denebola	–Sun
0	65 0.9 2783	62 24.9 3030	57 2.2 2761	36 48.4 3150	30 30.3 3132
3	66 35.7 2770	63 54.4 3010	58 37.6 2747	38 15.6 3109	29 2.8 3121
6	68 10.8 2756	65 24.4 2989	60 13.2 2733	39 43.6 3071	27 35.1 3110
9	69 46.2 2742	66 54.9 2969	61 49.1 2720	41 12.3 3035	26 7.1 3100
12	71 21.9 2728	68 25.7 2950	63 25.3 2705	42 41.8 3002	24 39.0 3090
15	72 58.0 2714	69 57.0 2932	65 1.8 2692	44 11.9 2971	23 10.6 3082
18	74 34.3 2700	71 28.6 2914	66 38.7 2678	45 42.7 2942	21 42.1 3075
21	76 11.0 2687	73 0.6 2896	68 15.8 2665	47 14.1 2914	20 13.5 3070

NOVEMBER 2014

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
21 UT	+Jupiter	+Regulus	+Denebola	+Gienah	–Sun
0	77 47.9 2674	69 53.3 2652	48 46.1 2889	33 3.3 3074	18 44.7 3068
3	79 25.1 2660	71 31.0 2638	50 18.7 2864	34 32.0 3026	17 15.9 3069
6	81 2.7 2647	73 9.0 2625	51 51.8 2840	36 1.6 2983	15 47.1 3075
9	82 40.5 2633	74 47.4 2612	53 25.4 2818	37 32.2 2943	14 18.5 3089
12	84 18.7 2621	76 26.0 2599	54 59.4 2796	39 3.6 2908	12 50.1 3113
15	85 57.1 2608	78 4.9 2586	56 34.0 2776	40 35.7 2873	11 22.2 3155
18	87 35.9 2595	79 44.2 2574	58 8.9 2756	42 8.6 2843	9 55.2 3228
21	89 14.9 2583	81 23.7 2561	59 44.3 2738	43 42.1 2814	8 29.6 3358
23 UT	+Sun	–Mars	–Altaïr	–Enif	–Fomalhaut
0	7 7.0 3247	44 26.0 2761	58 11.6 3039	84 22.9 2677	89 1.2 2866
3	8 32.3 3092	42 50.7 2755	56 42.2 3053	82 45.7 2669	87 28.2 2857
6	10 0.6 2995	41 15.3 2749	55 13.1 3070	81 8.4 2662	85 55.0 2849
9	11 30.9 2929	39 39.7 2744	53 44.3 3090	79 30.9 2656	84 21.6 2842
12	13 2.6 2881	38 4.0 2739	52 16.0 3112	77 53.3 2649	82 48.1 2836
15	14 35.3 2845	36 28.2 2737	50 48.0 3140	76 15.5 2645	81 14.4 2832
18	16 8.7 2817	34 52.4 2735	49 20.7 3171	74 37.6 2640	79 40.6 2828
21	17 42.8 2793	33 16.5 2735	47 54.0 3207	72 59.6 2637	78 6.8 2826
24 UT	+Sun	–Enif	–Fomalhaut	–Markab	–Diphda
0	19 17.4 2773	71 21.5 2635	76 32.9 2824	91 36.3 2577	103 12.2 2727
3	20 52.5 2756	69 43.4 2633	74 59.0 2824	89 56.9 2569	101 36.2 2715
6	22 27.9 2741	68 5.2 2632	73 25.0 2825	88 17.3 2562	99 59.8 2704
9	24 3.6 2728	66 27.0 2633	71 51.1 2828	86 37.5 2557	98 23.3 2695
12	25 39.6 2717	64 48.9 2634	70 17.3 2832	84 57.6 2551	96 46.5 2685
15	27 15.9 2706	63 10.8 2637	68 43.5 2837	83 17.6 2546	95 9.5 2677
18	28 52.5 2696	61 32.7 2641	67 9.8 2844	81 37.5 2543	93 32.3 2670
21	30 29.2 2687	59 54.7 2647	65 36.3 2853	79 57.2 2539	91 55.0 2664
25 UT	+Sun	–Enif	–Fomalhaut	–Markab	–Diphda
0	32 6.1 2680	58 16.9 2654	64 3.0 2864	78 16.9 2537	90 17.6 2659
3	33 43.2 2672	56 39.2 2663	62 29.9 2876	76 36.6 2535	88 40.0 2654
6	35 20.5 2665	55 1.7 2673	60 57.1 2891	74 56.2 2534	87 2.3 2651
9	36 57.9 2659	53 24.4 2685	59 24.6 2907	73 15.8 2534	85 24.6 2648
12	38 35.5 2654	51 47.5 2700	57 52.5 2927	71 35.4 2535	83 46.8 2647
15	40 13.2 2648	50 10.8 2717	56 20.7 2949	69 55.0 2536	82 8.9 2646
18	41 51.0 2644	48 34.5 2736	54 49.5 2974	68 14.6 2538	80 31.0 2646
21	43 28.9 2640	46 58.7 2759	53 18.7 3003	66 34.3 2542	78 53.2 2647
26 UT	+Sun	–Enif	–Fomalhaut	–Markab	–Menkar
0	45 6.9 2636	45 23.3 2785	51 48.6 3035	64 54.0 2546	116 28.5 2384
3	46 45.0 2633	43 48.5 2815	50 19.1 3072	63 13.9 2552	114 44.5 2379
6	48 23.2 2629	42 14.4 2850	48 50.4 3112	61 33.9 2558	113 0.5 2375
9	50 1.4 2626	40 41.0 2889	47 22.5 3159	59 54.0 2566	111 16.3 2371
12	51 39.7 2625	39 8.5 2935	45 55.5 3211	58 14.3 2575	109 32.0 2367
15	53 18.1 2622	37 37.0 2988	44 29.6 3270	56 34.8 2585	107 47.7 2364
18	54 56.5 2620	36 6.5 3049	43 4.8 3336	54 55.6 2597	106 3.3 2361
21	56 34.9 2619	34 37.3 3120	41 41.3 3412	53 16.6 2611	104 18.8 2359

NOVEMBER 2014

	° / P.L.	° / P.L.	° / P.L.	° / P.L.	° / P.L.
27 UT	+Sun	–Markab	–Diphda	–Hamal	–Menkar
0	58 13.4 2618	51 38.0 2626	64 16.2 2705	94 10.7 2375	102 34.2 2357
3	59 51.9 2617	49 59.7 2644	62 39.7 2719	92 26.5 2374	100 49.6 2356
6	61 30.4 2616	48 21.8 2664	61 3.5 2733	90 42.3 2374	99 5.0 2355
9	63 9.0 2616	46 44.3 2687	59 27.5 2750	88 58.1 2374	97 20.4 2354
12	64 47.5 2615	45 7.4 2712	57 52.0 2768	87 13.9 2374	95 35.7 2354
15	66 26.1 2615	43 31.0 2742	56 16.8 2789	85 29.7 2375	93 51.0 2354
18	68 4.6 2616	41 55.3 2775	54 42.1 2812	83 45.6 2376	92 6.3 2354
21	69 43.2 2616	40 20.3 2813	53 8.0 2838	82 1.4 2377	90 21.7 2354
28 UT	+Sun	+Mars	–Hamal	–Menkar	–Aldebaran
0	71 21.7 2616	23 7.0 2706	80 17.3 2379	88 37.0 2355	113 19.2 2286
3	73 0.3 2617	24 43.5 2686	78 33.2 2381	86 52.3 2356	111 32.8 2287
6	74 38.8 2619	26 20.5 2670	76 49.2 2383	85 7.7 2357	109 46.5 2288
9	76 17.3 2619	27 57.8 2656	75 5.2 2386	83 23.1 2359	108 0.3 2289
12	77 55.7 2621	29 35.5 2645	73 21.3 2389	81 38.6 2361	106 14.0 2290
15	79 34.2 2622	31 13.3 2637	71 37.5 2392	79 54.0 2363	104 27.8 2292
18	81 12.6 2625	32 51.4 2630	69 53.7 2396	78 9.6 2366	102 41.6 2293
21	82 50.9 2626	34 29.6 2624	68 10.1 2400	76 25.2 2368	100 55.5 2295
29 UT	+Sun	+Mars	–Bellatrix	–Elnath	–Betelgeuse
0	84 29.2 2627	36 8.0 2619	110 14.0 2407	111 6.7 2371	117 45.3 2400
3	86 7.5 2630	37 46.5 2615	108 30.6 2407	109 22.4 2372	116 1.7 2399
6	87 45.7 2632	39 25.0 2612	106 47.2 2407	107 38.2 2372	114 18.1 2398
9	89 23.9 2634	41 3.7 2610	105 3.8 2407	105 53.9 2373	112 34.5 2397
12	91 2.1 2637	42 42.4 2608	103 20.4 2408	104 9.7 2374	110 50.8 2397
15	92 40.1 2639	44 21.1 2607	101 37.0 2409	102 25.5 2375	109 7.2 2398
18	94 18.1 2642	45 59.8 2607	99 53.6 2410	100 41.4 2377	107 23.6 2398
21	95 56.1 2645	47 38.6 2607	98 10.3 2412	98 57.2 2379	105 40.0 2399
30 UT	+Sun	+Mars	+Altair	–Aldebaran	–Betelgeuse
0	97 34.0 2648	49 17.3 2607	48 51.4 3064	85 2.3 2314	103 56.4 2400
3	99 11.8 2651	50 56.1 2608	50 20.3 3029	83 16.6 2317	102 12.8 2402
6	100 49.6 2654	52 34.8 2608	51 49.9 2998	81 31.1 2320	100 29.3 2404
9	102 27.2 2657	54 13.5 2610	53 20.2 2970	79 45.6 2323	98 45.8 2406
12	104 4.9 2661	55 52.2 2611	54 51.0 2946	78 0.1 2326	97 2.4 2408
15	105 42.4 2664	57 30.8 2613	56 22.3 2924	76 14.8 2329	95 19.0 2411
18	107 19.8 2668	59 9.5 2615	57 54.1 2905	74 29.5 2332	93 35.7 2414
21	108 57.2 2672	60 48.0 2617	59 26.4 2887	72 44.3 2335	91 52.5 2417