conjunction	6100 May 29 12:25	11°♊06'05	-0°11'26
minimum elong	6100 May 29 13:37	11°♊08'27	0°11'26
behind sun begin	6100 May 28 16:05	10°♊26'15	
behind sun end	6100 May 30 11:10	11°♊50'37	
asc. node	6100 Jun 14 17:53	23°♊44'56	
	6100 Jun 22 20:13	0°♋	
max. Earth dist.	6100 Jul 20 09:40	20°♋55'16	2.40033 AU
	6100 Aug 01 15:01	0°♌	
morning rise	6100 Aug 07 00:53	3°♌58'38	
	6100 Sep 12 09:36	0°♍	
	6100 Oct 26 16:21	0°♎	
	6100 Dec 13 04:02	0°♏	
	6101 Feb 04 07:33	0°♐	
retrograde	6101 Apr 26 14:44	26°♐18'31	
opposition	6101 Jun 04 22:39	17°♐14'07	0°20'00
greatest brilliancy	6101 Jun 04 23:59	17°♐12'49	-1.4m
min. Earth dist.	6101 Jun 08 18:24	15°♐44'49	0.65467 AU
desc. node	6101 Jun 14 04:52	13°♐41'09	
direct	6101 Jul 16 13:09	7°♐11'17	
	6101 Sep 26 16:46	0°♑	
	6101 Nov 16 07:04	0°♒	
	6101 Dec 29 16:18	0°♓	
	6102 Feb 07 17:28	0°♈	
	6102 Mar 18 03:46	0°♉	
	6102 Apr 25 05:06	0°♊	
asc. node	6102 May 02 16:23	5°♊51'03	
evening set	6102 Jun 02 23:49	0°♋03'46	
	6102 Jun 02 21:50	0°♋	
	6102 Jul 13 00:51	0°♌	
conjunction	6102 Aug 05 01:19	16°♌35'54	0°54'18
minimum elong	6102 Aug 04 23:12	16°♌32'08	0°54'15
	6102 Aug 24 02:40	0°♍	
max. Earth dist.	6102 Sep 10 07:01	11°♍49'42	2.53645 AU
morning rise	6102 Sep 29 11:48	24°♍46'37	
	6102 Oct 07 08:22	0°♎	
	6102 Nov 22 18:07	0°♏	
	6103 Jan 10 12:41	0°♐	
	6103 Mar 04 06:38	0°♑	
desc. node	6103 May 02 03:51	26°♑31'40	
	6103 May 14 05:41	0°♒	
retrograde	6103 Jun 07 07:01	3°♒08'44	
	6103 Jun 29 18:18	30°℞♑	
opposition	6103 Jul 14 03:55	25°♑12'04	-2°50'28
greatest brilliancy	6103 Jul 14 20:59	24°♑56'17	-1.8m
min. Earth dist.	6103 Jul 21 12:16	22°♑29'07	0.56583 AU
direct	6103 Aug 23 09:58	15°♑39'23	
	6103 Oct 14 08:12	0°♒	
	6103 Dec 04 10:27	0°♓	
	6104 Jan 15 16:11	0°♈	
	6104 Feb 24 03:15	0°♉	
asc. node	6104 Mar 19 16:16	18°♉59'01	
	6104 Apr 02 22:35	0°♊	
	6104 May 12 08:47	0°♋	
	6104 Jun 22 05:42	0°♌	
evening set	6104 Jul 31 05:41	27°♌24'47	
	6104 Aug 04 00:05	0°♍	
	6104 Sep 17 16:42	0°♎	
conjunction	6104 Sep 21 05:38	2°♎19'36	1°06'41
minimum elong	6104 Sep 21 06:04	2°♎20'19	1°06'42
max. Earth dist.	6104 Oct 08 05:52	13°♎25'25	2.63362 AU
	6104 Nov 03 00:04	0°♏	
morning rise	6104 Nov 07 16:13	2°♏58'54	
	6104 Dec 20 11:39	0°♐	
	6105 Feb 06 23:33	0°♑	
desc. node	6105 Mar 19 02:52	24°♑08'34	
	6105 Mar 29 02:55	0°♒	
	6105 May 23 02:00	0°♓	
retrograde	6105 Aug 03 08:35	22°♓19'48	
opposition	6105 Sep 04 18:08	16°♓19'36	-6°05'48
greatest brilliancy	6105 Sep 06 11:51	15°♓46'38	-2.5m
min. Earth dist.	6105 Sep 12 18:51	13°♓48'31	0.43315 AU
direct	6105 Oct 09 20:42	9°♓05'54	
	6105 Dec 10 09:42	0°♈	
	6106 Jan 25 21:20	0°♉	
asc. node	6106 Feb 04 15:07	6°♉50'11	
	6106 Mar 08 21:59	0°♊	
	6106 Apr 19 13:02	0°♋	
	6106 Jun 01 03:55	0°♌	
	6106 Jul 15 07:39	0°♍	
	6106 Aug 30 00:03	0°♎	
evening set	6106 Sep 13 06:28	9°♎12'22	
	6106 Oct 15 18:38	0°♏	
conjunction	6106 Oct 29 20:27	8°♏57'23	0°46'30
minimum elong	6106 Oct 29 21:32	8°♏59'06	0°46'30
max. Earth dist.	6106 Oct 31 16:20	10°♏07'07	2.67739 AU
	6106 Dec 01 23:27	0°♐	
morning rise	6106 Dec 13 01:57	7°♐03'39	
	6107 Jan 18 00:26	0°♑	
desc. node	6107 Feb 04 01:17	10°♑56'03	
	6107 Mar 05 14:17	0°♒	
	6107 Apr 20 17:41	0°♓	
	6107 Jun 05 20:13	0°♈	
	6107 Jul 23 06:34	0°♉	
	6107 Sep 18 11:28	0°♊	
retrograde	6107 Oct 22 23:40	7°♊15'57	
min. Earth dist.	6107 Nov 19 13:10	2°♊46'29	0.37169 AU
opposition	6107 Nov 22 18:05	1°♊54'06	-2°16'42
greatest brilliancy	6107 Nov 22 14:22	1°♊56'38	-3.0m
	6107 Nov 29 23:52	30°℞♉	
direct	6107 Dec 22 00:57	26°♉58'21	
asc. node	6107 Dec 23 14:03	26°♉59'18	
	6108 Jan 13 01:04	0°♊	
	6108 Mar 17 15:06	0°♋	
	6108 May 05 22:46	0°♌	
	6108 Jun 22 16:11	0°♍	
	6108 Aug 09 11:04	0°♎	
	6108 Sep 26 08:53	0°♏	
evening set	6108 Oct 19 17:50	14°♏42'00	
	6108 Nov 12 21:26	0°♐	
max. Earth dist.	6108 Nov 22 13:42	6°♐10'25	2.66614 AU
conjunction	6108 Dec 03 14:13	13°♐14'38	0°09'48
minimum elong	6108 Dec 03 14:31	13°♐15'07	0°09'49
behind sun begin	6108 Dec 02 23:37	12°♐51'10	
behind sun end	6108 Dec 04 05:25	13°♐39'05	
desc. node	6108 Dec 21 23:39	25°♐08'17	
	6108 Dec 29 10:36	0°♑	
morning rise	6109 Jan 16 19:45	12°♑05'17	
	6109 Feb 12 14:47	0°♒	
	6109 Mar 28 06:50	0°♓	
	6109 May 09 13:04	0°♈	
	6109 Jun 19 16:53	0°♉	
	6109 Jul 30 11:24	0°♊	
	6109 Sep 10 10:20	0°♋	
	6109 Oct 28 06:15	0°♌	
asc. node	6109 Nov 09 14:36	6°♌13'55	
retrograde	6109 Dec 22 22:52	17°♌43'40	

Command: swevents -p4 -doall -mpdf -eswe -b1.1.6100 -n183366 -roundmin

min. Earth dist.	6110 Jan 20 14:31	12°♌03'07	0.48220 AU
opposition	6110 Jan 28 23:04	9°♌01'58	4°07'29
greatest brilliancy	6110 Jan 27 15:55	9°♌30'12	-2.3m
direct	6110 Mar 03 11:42	1°♌57'44	
	6110 May 25 07:44	0°♍	
	6110 Jul 18 10:30	0°♎	
	6110 Sep 06 23:19	0°♏	
	6110 Oct 25 13:29	0°♐	
desc. node	6110 Nov 08 22:27	9°♐06'15	
evening set	6110 Nov 25 04:50	19°♐33'03	
	6110 Dec 11 05:20	0°♑	
max. Earth dist.	6110 Dec 17 02:23	3°♑52'31	2.60108 AU
conjunction	6111 Jan 10 08:04	20°♑06'32	-0°32'45
minimum elong	6111 Jan 10 07:01	20°♑04'45	0°32'43
	6111 Jan 24 19:18	0°♒	
morning rise	6111 Feb 27 10:12	23°♒35'44	
	6111 Mar 08 08:17	0°♓	
	6111 Apr 18 03:03	0°♈	
	6111 May 27 15:04	0°♉	
	6111 Jul 05 12:47	0°♊	
	6111 Aug 13 18:40	0°♋	
	6111 Sep 23 16:07	0°♌	
asc. node	6111 Sep 27 13:37	2°♌44'58	
	6111 Nov 07 15:31	0°♍	
	6112 Jan 07 19:54	0°♎	
retrograde	6112 Feb 03 15:12	4°♎24'42	
	6112 Feb 28 20:09	30°℞♍	
min. Earth dist.	6112 Mar 09 00:55	26°♍37'11	0.60530 AU
greatest brilliancy	6112 Mar 13 11:30	24°♍51'58	-1.6m
opposition	6112 Mar 14 08:59	24°♍30'42	4°49'37
direct	6112 Apr 21 02:12	15°♍48'01	
	6112 Jun 15 22:48	0°♎	
	6112 Aug 14 18:47	0°♏	
desc. node	6112 Sep 25 21:23	24°♏24'32	
	6112 Oct 05 03:01	0°♐	
	6112 Nov 21 15:29	0°♑	
evening set	6113 Jan 03 16:07	28°♑56'54	
	6113 Jan 05 04:30	0°♒	
max. Earth dist.	6113 Jan 17 18:42	8°♒49'11	2.48813 AU
	6113 Feb 16 04:50	0°♓	
conjunction	6113 Feb 24 11:11	6°♓05'19	-1°04'00
minimum elong	6113 Feb 24 10:19	6°♓03'43	1°03'59
	6113 Mar 28 05:34	0°♈	
morning rise	6113 Apr 24 22:41	21°♈24'03	
	6113 May 05 22:59	0°♉	
	6113 Jun 13 04:06	0°♊	
	6113 Jul 21 17:58	0°♋	
asc. node	6113 Aug 14 11:03	18°♋00'19	
	6113 Aug 30 14:59	0°♌	
	6113 Oct 11 20:54	0°♍	
	6113 Nov 27 06:22	0°♎	
	6114 Jan 23 19:35	0°♏	
retrograde	6114 Mar 10 01:43	10°♏31'44	
min. Earth dist.	6114 Apr 18 01:17	1°♏14'24	0.67165 AU
opposition	6114 Apr 19 12:42	0°♏39'05	3°31'57
greatest brilliancy	6114 Apr 19 08:33	0°♏43'13	-1.3m
	6114 Apr 21 03:58	30°℞♎	
direct	6114 May 29 20:36	21°♎03'13	
	6114 Jul 11 20:15	0°♏	
desc. node	6114 Aug 13 20:18	14°♏19'20	
	6114 Sep 12 15:10	0°♐	
	6114 Nov 01 18:50	0°♑	
	6114 Dec 17 00:27	0°♒	
	6115 Jan 27 23:38	0°♓	
evening set	6115 Feb 24 17:47	20°♓50'05	
	6115 Mar 08 16:27	0°♈	
	6115 Apr 16 00:57	0°♉	
max. Earth dist.	6115 Apr 20 10:45	3°♉29'01	2.36804 AU
conjunction	6115 Apr 30 08:42	11°♉19'45	-0°41'31
minimum elong	6115 Apr 30 12:02	11°♉26'21	0°41'30
	6115 May 23 23:16	0°♊	
	6115 Jul 01 09:05	0°♋	
asc. node	6115 Jul 02 10:25	0°♋48'46	
morning rise	6115 Jul 11 18:46	7°♋58'40	
	6115 Aug 10 02:20	0°♌	
	6115 Sep 20 20:19	0°♍	
	6115 Nov 04 08:07	0°♎	
	6115 Dec 22 19:10	0°♏	
	6116 Feb 18 17:11	0°♐	
retrograde	6116 Apr 12 11:32	13°♐29'24	
opposition	6116 May 22 08:54	4°♐07'08	1°21'48
greatest brilliancy	6116 May 22 12:02	4°♐04'04	-1.3m
min. Earth dist.	6116 May 24 17:24	3°♐11'37	0.67227 AU
	6116 Jun 02 03:19	30°℞♏	
desc. node	6116 Jun 30 19:22	24°♏07'58	
direct	6116 Jul 02 22:03	24°♏06'18	
	6116 Aug 05 10:48	0°♐	
	6116 Oct 08 06:31	0°♑	
	6116 Nov 25 03:32	0°♒	
	6117 Jan 06 19:55	0°♓	
	6117 Feb 15 15:39	0°♈	
	6117 Mar 25 23:36	0°♉	
	6117 May 02 22:32	0°♊	
evening set	6117 May 05 13:07	2°♊03'08	
asc. node	6117 May 19 09:54	12°♊54'56	
	6117 Jun 10 11:42	0°♋	
conjunction	6117 Jul 12 09:42	24°♋04'53	0°35'11
minimum elong	6117 Jul 12 07:12	24°♋00'14	0°35'08
	6117 Jul 20 10:11	0°♌	
max. Earth dist.	6117 Aug 26 09:43	26°♌33'57	2.48542 AU
	6117 Aug 31 07:28	0°♍	
morning rise	6117 Sep 10 22:13	7°♍21'30	
	6117 Oct 14 11:17	0°♎	
	6117 Nov 30 02:30	0°♏	
	6118 Jan 18 22:12	0°♐	
	6118 Mar 16 20:51	0°♑	
desc. node	6118 May 18 18:40	18°♑06'26	
retrograde	6118 May 20 19:42	18°♑07'57	
opposition	6118 Jun 27 20:36	9°♑40'13	-1°31'21
greatest brilliancy	6118 Jun 28 04:04	9°♑33'07	-1.6m
min. Earth dist.	6118 Jul 03 22:09	7°♑22'02	0.60770 AU
	6118 Aug 02 07:41	30°℞♐	
direct	6118 Aug 07 22:43	29°♐47'33	
	6118 Aug 13 15:35	0°♑	
	6118 Oct 29 20:48	0°♒	
	6118 Dec 14 23:50	0°♓	
	6119 Jan 24 22:56	0°♈	
	6119 Mar 04 20:03	0°♉	
asc. node	6119 Apr 06 07:49	25°♉23'56	
	6119 Apr 12 05:33	0°♊	
	6119 May 21 06:40	0°♋	
	6119 Jun 30 18:44	0°♌	
evening set	6119 Jul 11 12:49	7°♌44'35	
	6119 Aug 12 04:51	0°♍	
conjunction	6119 Sep 05 03:14	16°♍19'05	1°07'01
minimum elong	6119 Sep 05 02:49	16°♍18'24	1°07'01
	6119 Sep 25 15:31	0°♎	
max. Earth dist.	6119 Sep 28 23:23	2°♎11'46	2.60174 AU
morning rise	6119 Oct 24 23:05	19°♎08'15	

	6119 Nov 10 21:32	0°♏	
	6119 Dec 28 16:54	0°♐	
	6120 Feb 16 06:58	0°♑	
desc. node	6120 Apr 04 17:03	27°♑24'57	
	6120 Apr 09 14:03	0°♒	
	6120 Jun 26 02:50	0°♓	
retrograde	6120 Jul 08 19:57	0°♓55'59	
	6120 Jul 20 23:38	30°℞♒	
opposition	6120 Aug 12 04:00	24°♒03'42	-5°00'10
greatest brilliancy	6120 Aug 13 15:47	23°♒32'55	-2.2m
min. Earth dist.	6120 Aug 20 17:21	21°♒07'41	0.48679 AU
direct	6120 Sep 18 22:39	15°♒36'30	
	6120 Nov 08 02:41	0°♓	
	6120 Dec 27 10:09	0°♈	
	6121 Feb 07 03:47	0°♉	
asc. node	6121 Feb 21 07:39	10°♉33'21	
	6121 Mar 19 05:57	0°♊	
	6121 Apr 28 15:35	0°♋	
	6121 Jun 09 08:41	0°♌	
	6121 Jul 22 19:49	0°♍	
evening set	6121 Aug 28 08:04	24°♍18'38	
	6121 Sep 06 00:38	0°♎	
conjunction	6121 Oct 15 11:53	25°♎29'40	0°56'55
minimum elong	6121 Oct 15 12:57	25°♎31'22	0°56'56
	6121 Oct 22 13:02	0°♏	
max. Earth dist.	6121 Oct 22 22:15	0°♏14'42	2.66681 AU
morning rise	6121 Nov 29 13:27	24°♏09'59	
	6121 Dec 08 18:30	0°♐	
	6122 Jan 25 05:20	0°♑	
desc. node	6122 Feb 20 15:16	16°♑40'48	
	6122 Mar 13 18:32	0°♒	
	6122 Apr 30 20:20	0°♓	
	6122 Jun 20 00:43	0°♈	
	6122 Aug 21 17:34	0°♉	
retrograde	6122 Sep 20 20:02	5°♉14'58	
opposition	6122 Oct 20 17:55	0°♉18'31	-5°19'55
greatest brilliancy	6122 Oct 21 10:51	0°♉07'10	-2.9m
	6122 Oct 21 21:32	30°℞♈	
min. Earth dist.	6122 Oct 23 10:27	29°♈35'17	0.37354 AU
direct	6122 Nov 20 04:22	25°♈07'19	
	6122 Dec 17 18:47	0°♉	
asc. node	6123 Jan 09 07:55	9°♉28'06	
	6123 Feb 14 15:31	0°♊	
	6123 Apr 02 03:17	0°♋	
	6123 May 17 09:17	0°♌	
	6123 Jul 02 04:38	0°♍	
	6123 Aug 17 22:18	0°♎	
	6123 Oct 04 06:45	0°♏	
evening set	6123 Oct 06 14:11	1°♏27'35	
max. Earth dist.	6123 Nov 14 15:20	26°♏11'51	2.67705 AU
conjunction	6123 Nov 20 18:26	0°♐05'58	0°25'14
minimum elong	6123 Nov 20 19:09	0°♐07'07	0°25'15
	6123 Nov 20 14:41	0°♐	
morning rise	6124 Jan 03 14:58	28°♐16'24	
	6124 Jan 06 06:48	0°♑	
desc. node	6124 Jan 08 13:31	1°♑28'57	
	6124 Feb 20 21:07	0°♒	
	6124 Apr 05 06:38	0°♓	
	6124 May 18 13:07	0°♈	
	6124 Jun 30 00:46	0°♉	
	6124 Aug 11 17:26	0°♊	
	6124 Sep 26 21:32	0°♋	
asc. node	6124 Nov 26 06:56	23°♋37'34	
retrograde	6124 Dec 02 01:42	23°♋52'26	
min. Earth dist.	6124 Dec 28 20:11	19°♋01'00	0.42869 AU
opposition	6125 Jan 05 22:28	16°♋20'21	2°32'55
greatest brilliancy	6125 Jan 05 02:10	16°♋37'13	-2.6m
direct	6125 Feb 06 12:08	10°♋10'45	
	6125 Apr 12 14:13	0°♌	
	6125 Jun 06 14:48	0°♍	
	6125 Jul 27 04:26	0°♎	
	6125 Sep 14 09:27	0°♏	
	6125 Nov 01 10:57	0°♐	
evening set	6125 Nov 10 20:20	5°♐57'51	
desc. node	6125 Nov 25 12:22	15°♐21'52	
max. Earth dist.	6125 Dec 07 03:25	22°♐53'29	2.63276 AU
	6125 Dec 18 00:31	0°♑	
conjunction	6125 Dec 26 02:17	5°♑19'14	-0°16'24
minimum elong	6125 Dec 26 01:45	5°♑18'21	0°16'22
	6126 Jan 31 18:48	0°♒	
morning rise	6126 Feb 10 01:43	6°♒23'11	
	6126 Mar 15 16:40	0°♓	
	6126 Apr 25 22:33	0°♈	
	6126 Jun 04 22:18	0°♉	
	6126 Jul 14 07:33	0°♊	
	6126 Aug 23 03:08	0°♋	
	6126 Oct 04 02:45	0°♌	
asc. node	6126 Oct 14 05:32	6°♌46'56	
	6126 Nov 21 21:04	0°♍	
retrograde	6127 Jan 19 09:06	18°♍18'43	
min. Earth dist.	6127 Feb 20 14:53	11°♍16'36	0.56277 AU
greatest brilliancy	6127 Feb 26 05:02	9°♍06'43	-1.8m
opposition	6127 Feb 27 09:15	8°♍39'19	4°55'29
direct	6127 Apr 04 16:22	0°♍28'01	
	6127 Jul 01 06:01	0°♎	
	6127 Aug 24 15:10	0°♏	
desc. node	6127 Oct 13 11:36	29°♏56'28	
	6127 Oct 13 13:53	0°♐	
	6127 Nov 29 15:58	0°♑	
evening set	6127 Dec 19 01:24	12°♑51'55	
max. Earth dist.	6128 Jan 04 10:01	23°♑57'48	2.53722 AU
	6128 Jan 13 04:16	0°♒	
conjunction	6128 Feb 05 21:59	16°♒41'32	-0°55'08
minimum elong	6128 Feb 05 20:35	16°♒39'03	0°55'06
	6128 Feb 24 08:50	0°♓	
morning rise	6128 Mar 30 16:34	26°♓14'21	
	6128 Apr 04 15:43	0°♈	
	6128 May 13 15:23	0°♉	
	6128 Jun 21 01:33	0°♊	
	6128 Jul 29 19:19	0°♋	
asc. node	6128 Aug 31 04:45	24°♋21'42	
	6128 Sep 07 21:22	0°♌	
	6128 Oct 20 16:12	0°♍	
	6128 Dec 08 01:55	0°♎	
retrograde	6129 Feb 24 17:03	27°♎21'42	
min. Earth dist.	6129 Apr 03 01:32	18°♎35'21	0.65345 AU
opposition	6129 Apr 06 01:16	17°♎23'47	4°09'52
greatest brilliancy	6129 Apr 05 15:01	17°♎34'01	-1.4m
direct	6129 May 15 12:23	8°♎04'47	
	6129 Jul 27 21:06	0°♏	
desc. node	6129 Aug 30 10:57	17°♏22'53	
	6129 Sep 21 16:05	0°♐	
	6129 Nov 09 11:09	0°♑	
	6129 Dec 24 07:56	0°♒	
evening set	6130 Feb 02 10:03	28°♒38'07	
	6130 Feb 04 06:34	0°♓	
max. Earth dist.	6130 Feb 20 22:27	12°♓23'54	2.40659 AU
	6130 Mar 16 01:39	0°♈	
conjunction	6130 Apr 02 07:26	13°♈21'22	-1°00'22

minimum elong	6130 Apr 02 09:28	13°♈25'20	1°00'22
	6130 Apr 23 12:55	0°♉	
	6130 May 31 13:05	0°♊	
morning rise	6130 Jun 11 01:29	8°♊16'22	
	6130 Jul 08 23:23	0°♋	
asc. node	6130 Jul 19 02:21	7°♋45'54	
	6130 Aug 17 16:29	0°♌	
	6130 Sep 28 12:01	0°♍	
	6130 Nov 12 09:26	0°♎	
	6131 Jan 01 12:57	0°♏	
	6131 Mar 18 11:09	0°♐	
retrograde	6131 Mar 30 21:57	0°♐55'19	
	6131 Apr 11 21:39	30°℞♏	
opposition	6131 May 10 04:10	21°♏18'32	2°17'11
greatest brilliancy	6131 May 10 06:11	21°♏16'32	-1.3m
min. Earth dist.	6131 May 11 00:53	20°♏58'01	0.68005 AU
direct	6131 Jun 20 10:05	11°♏24'13	
desc. node	6131 Jul 18 09:52	15°♏34'37	
	6131 Aug 24 22:57	0°♐	
	6131 Oct 18 21:30	0°♑	
	6131 Dec 04 08:23	0°♒	
	6132 Jan 15 15:20	0°♓	
	6132 Feb 24 08:28	0°♈	
	6132 Apr 02 15:32	0°♉	
evening set	6132 Apr 06 05:28	2°♉49'57	
	6132 May 10 13:07	0°♊	
asc. node	6132 Jun 05 01:50	20°♊00'40	
conjunction	6132 Jun 15 05:00	27°♊51'32	0°07'08
minimum elong	6132 Jun 15 04:16	27°♊50'07	0°07'05
behind sun begin	6132 Jun 14 01:30	26°♊58'30	
behind sun end	6132 Jun 16 07:02	28°♊41'41	
	6132 Jun 17 23:44	0°♋	
	6132 Jul 27 18:48	0°♌	
max. Earth dist.	6132 Aug 06 11:19	7°♌06'04	2.43041 AU
morning rise	6132 Aug 20 16:35	17°♌22'08	
	6132 Sep 07 13:06	0°♍	
	6132 Oct 21 17:10	0°♎	
	6132 Dec 07 18:25	0°♏	
	6133 Jan 28 06:44	0°♐	
	6133 Apr 06 11:09	0°♑	
retrograde	6133 May 05 01:43	4°♑20'08	
	6133 May 31 10:29	30°℞♐	
desc. node	6133 Jun 04 08:43	28°♐41'00	
opposition	6133 Jun 13 00:22	25°♐27'31	-0°19'04
greatest brilliancy	6133 Jun 13 01:36	25°♐26'20	-1.5m
min. Earth dist.	6133 Jun 17 15:40	23°♐39'57	0.64076 AU
direct	6133 Jul 24 12:43	15°♐26'06	
	6133 Sep 17 05:31	0°♑	
	6133 Nov 10 01:45	0°♒	
	6133 Dec 24 05:14	0°♓	
	6134 Feb 02 12:59	0°♈	
	6134 Mar 13 02:33	0°♉	
	6134 Apr 20 06:02	0°♊	
asc. node	6134 Apr 23 02:01	2°♊13'03	
	6134 May 29 00:34	0°♋	
evening set	6134 Jun 17 18:45	14°♋54'18	
	6134 Jul 08 05:29	0°♌	
conjunction	6134 Aug 17 00:45	28°♌22'30	1°01'08
minimum elong	6134 Aug 16 23:15	28°♌19'53	1°01'07
	6134 Aug 19 08:49	0°♍	
max. Earth dist.	6134 Sep 17 14:31	19°♍58'45	2.56161 AU
	6134 Oct 02 14:54	0°♎	
morning rise	6134 Oct 09 04:24	4°♎19'57	
	6134 Nov 17 21:43	0°♏	
	6135 Jan 05 05:24	0°♐	
	6135 Feb 25 11:33	0°♑	
desc. node	6135 Apr 22 07:31	28°♑15'59	
	6135 Apr 26 10:00	0°♒	
retrograde	6135 Jun 18 05:30	12°♒52'25	
opposition	6135 Jul 24 07:02	5°♒16'24	-3°38'04
greatest brilliancy	6135 Jul 25 06:50	4°♒54'49	-1.9m
min. Earth dist.	6135 Aug 01 05:25	2°♒24'01	0.53921 AU
	6135 Aug 08 09:43	30°℞♑	
direct	6135 Sep 01 20:29	26°♑01'17	
	6135 Sep 27 03:12	0°♒	
	6135 Nov 26 15:42	0°♓	
	6136 Jan 09 07:13	0°♈	
	6136 Feb 18 07:52	0°♉	
asc. node	6136 Mar 10 00:53	15°♉52'08	
	6136 Mar 28 11:23	0°♊	
	6136 May 07 03:47	0°♋	
	6136 Jun 17 06:08	0°♌	
	6136 Jul 30 04:52	0°♍	
evening set	6136 Aug 10 22:18	7°♍57'55	
	6136 Sep 13 00:29	0°♎	
conjunction	6136 Sep 30 08:20	11°♎19'07	1°04'13
minimum elong	6136 Sep 30 09:05	11°♎20'20	1°04'14
max. Earth dist.	6136 Oct 13 20:01	20°♎02'27	2.64761 AU
	6136 Oct 29 08:24	0°♏	
morning rise	6136 Nov 15 18:44	11°♏06'10	
	6136 Dec 15 16:42	0°♐	
	6137 Feb 01 17:38	0°♑	
desc. node	6137 Mar 09 05:35	21°♑49'45	
	6137 Mar 22 17:08	0°♒	
	6137 May 13 04:06	0°♓	
	6137 Jul 15 10:07	0°♈	
retrograde	6137 Aug 19 15:45	6°♈40'56	
opposition	6137 Sep 19 23:37	1°♈10'12	-6°19'34
greatest brilliancy	6137 Sep 21 14:15	0°♈41'40	-2.7m
	6137 Sep 23 22:41	30°℞♓	
min. Earth dist.	6137 Sep 26 22:37	29°♓07'48	0.40654 AU
direct	6137 Oct 23 06:57	24°♓44'58	
	6137 Nov 20 17:14	0°♈	
	6138 Jan 16 09:53	0°♉	
asc. node	6138 Jan 25 23:38	6°♉16'01	
	6138 Mar 01 14:47	0°♊	
	6138 Apr 13 07:24	0°♋	
	6138 May 26 14:25	0°♌	
	6138 Jul 10 05:04	0°♍	
	6138 Aug 25 04:44	0°♎	
evening set	6138 Sep 21 22:36	17°♎46'49	
	6138 Oct 11 03:10	0°♏	
conjunction	6138 Nov 06 21:27	16°♏59'46	0°39'14
minimum elong	6138 Nov 06 22:28	17°♏01'22	0°39'15
max. Earth dist.	6138 Nov 05 18:43	16°♏17'19	2.67954 AU
	6138 Nov 27 08:30	0°♐	
morning rise	6138 Dec 20 20:50	15°♐00'00	
	6139 Jan 13 05:39	0°♑	
desc. node	6139 Jan 25 04:16	7°♑42'38	
	6139 Feb 28 09:54	0°♒	
	6139 Apr 14 19:50	0°♓	
	6139 May 29 15:40	0°♈	
	6139 Jul 13 13:38	0°♉	
	6139 Aug 30 04:44	0°♊	
retrograde	6139 Nov 08 05:23	25°♊22'16	
min. Earth dist.	6139 Dec 04 13:39	20°♊58'24	0.38540 AU
opposition	6139 Dec 10 06:38	19°♊19'05	-0°16'09
greatest brilliancy	6139 Dec 10 05:33	19°♊19'52	-2.9m
asc. node	6139 Dec 14 00:11	18°♊14'42	
direct	6140 Jan 09 03:30	14°♊04'20	

	6140 Mar 04 18:52	0°♋	
	6140 Apr 28 08:04	0°♌	
	6140 Jun 16 17:20	0°♍	
	6140 Aug 04 06:45	0°♎	
	6140 Sep 21 13:53	0°♏	
evening set	6140 Oct 27 18:16	22°♏42'13	
	6140 Nov 08 06:35	0°♐	
max. Earth dist.	6140 Nov 27 19:33	12°♐29'06	2.65644 AU
conjunction	6140 Dec 11 15:07	21°♐24'19	0°00'17
minimum elong	6140 Dec 11 15:08	21°♐24'20	0°00'19
behind sun begin	6140 Dec 10 20:35	20°♐54'17	
behind sun end	6140 Dec 12 09:41	21°♐54'24	
desc. node	6140 Dec 12 03:26	21°♐44'16	
	6140 Dec 24 19:45	0°♑	
morning rise	6141 Jan 25 07:36	20°♑52'18	
	6141 Feb 07 20:08	0°♒	
	6141 Mar 23 05:15	0°♓	
	6141 May 04 01:44	0°♈	
	6141 Jun 13 17:52	0°♉	
	6141 Jul 23 21:25	0°♊	
	6141 Sep 02 18:32	0°♋	
	6141 Oct 17 05:37	0°♌	
asc. node	6141 Oct 30 22:46	8°♌09'48	
retrograde	6142 Jan 02 11:42	29°♌54'54	
min. Earth dist.	6142 Feb 01 09:36	23°♌44'33	0.51236 AU
greatest brilliancy	6142 Feb 08 00:32	21°♌16'33	-2.1m
opposition	6142 Feb 09 08:29	20°♌46'38	4°36'07
direct	6142 Mar 15 23:06	13°♌15'43	
	6142 May 15 06:17	0°♍	
	6142 Jul 12 03:35	0°♎	
	6142 Sep 01 18:10	0°♏	
	6142 Oct 20 18:43	0°♐	
desc. node	6142 Oct 30 02:19	5°♐51'30	
evening set	6142 Dec 03 14:22	28°♐02'08	
	6142 Dec 06 14:18	0°♑	
max. Earth dist.	6142 Dec 23 07:36	11°♑04'48	2.58040 AU
conjunction	6143 Jan 19 11:43	29°♑31'59	-0°41'41
minimum elong	6143 Jan 19 10:26	29°♑29'47	0°41'39
	6143 Jan 20 03:58	0°♒	
	6143 Mar 03 14:13	0°♓	
morning rise	6143 Mar 10 05:18	4°♓48'57	
	6143 Apr 13 04:36	0°♈	
	6143 May 22 11:43	0°♉	
	6143 Jun 30 04:28	0°♊	
	6143 Aug 08 04:24	0°♋	
asc. node	6143 Sep 17 20:37	0°♌08'33	
	6143 Sep 17 15:52	0°♌	
	6143 Oct 31 11:42	0°♍	
	6143 Dec 23 14:22	0°♎	
retrograde	6144 Feb 11 21:33	13°♎23'55	
min. Earth dist.	6144 Mar 18 10:14	5°♎13'23	0.62530 AU
opposition	6144 Mar 22 21:57	3°♎26'21	4°38'40
greatest brilliancy	6144 Mar 22 04:37	3°♎43'36	-1.5m
	6144 Mar 31 22:00	30°℞♍	
direct	6144 Apr 30 07:17	24°♍29'02	
	6144 Jun 01 20:58	0°♎	
	6144 Aug 08 06:41	0°♏	
desc. node	6144 Sep 16 01:06	21°♏46'59	
	6144 Sep 29 21:01	0°♐	
	6144 Nov 16 19:38	0°♑	
	6144 Dec 31 11:44	0°♒	
evening set	6145 Jan 13 18:51	9°♒18'32	
max. Earth dist.	6145 Jan 27 15:22	19°♒11'42	2.45944 AU
	6145 Feb 11 12:06	0°♓	
conjunction	6145 Mar 08 17:07	18°♓46'37	-1°05'48
minimum elong	6145 Mar 08 17:02	18°♓46'27	1°05'47
	6145 Mar 23 11:11	0°♈	
	6145 May 01 02:28	0°♉	
morning rise	6145 May 10 23:15	7°♉45'04	
	6145 Jun 08 05:30	0°♊	
	6145 Jul 16 17:11	0°♋	
asc. node	6145 Aug 04 20:25	14°♋36'05	
	6145 Aug 25 11:16	0°♌	
	6145 Oct 06 10:58	0°♍	
	6145 Nov 21 01:31	0°♎	
	6146 Jan 13 11:44	0°♏	
retrograde	6146 Mar 17 16:15	18°♏21'40	
min. Earth dist.	6146 Apr 26 11:31	8°♏48'42	0.67749 AU
opposition	6146 Apr 27 02:38	8°♏33'38	3°06'18
greatest brilliancy	6146 Apr 27 01:15	8°♏35'02	-1.3m
	6146 May 24 05:49	30°℞♎	
direct	6146 Jun 06 19:29	28°♎49'58	
	6146 Jun 21 02:19	0°♏	
desc. node	6146 Aug 04 00:06	13°♏54'07	
	6146 Sep 05 23:08	0°♐	
	6146 Oct 27 10:25	0°♑	
	6146 Dec 12 01:32	0°♒	
	6147 Jan 23 03:45	0°♓	
	6147 Mar 03 20:56	0°♈	
evening set	6147 Mar 10 18:20	5°♈20'09	
	6147 Apr 11 05:02	0°♉	
conjunction	6147 May 17 05:27	28°♉30'06	-0°25'19
minimum elong	6147 May 17 08:00	28°♉35'08	0°25'20
	6147 May 19 03:00	0°♊	
asc. node	6147 Jun 22 19:41	27°♊08'27	
	6147 Jun 26 12:34	0°♋	
max. Earth dist.	6147 Jun 29 03:35	2°♋01'17	2.37889 AU
morning rise	6147 Jul 27 15:10	23°♋36'51	
	6147 Aug 05 05:31	0°♌	
	6147 Sep 15 22:14	0°♍	
	6147 Oct 30 04:53	0°♎	
	6147 Dec 16 22:52	0°♏	
	6148 Feb 09 11:33	0°♐	
retrograde	6148 Apr 20 11:16	21°♐16'08	
opposition	6148 May 30 01:58	12°♐03'21	0°46'25
greatest brilliancy	6148 May 30 04:25	12°♐00'57	-1.4m
min. Earth dist.	6148 Jun 02 06:15	10°♐48'44	0.66383 AU
desc. node	6148 Jun 20 22:52	4°♐30'11	
direct	6148 Jul 10 16:37	2°♐00'33	
	6148 Oct 01 03:47	0°♑	
	6148 Nov 19 12:29	0°♒	
	6149 Jan 01 15:32	0°♓	
	6149 Feb 10 14:59	0°♈	
	6149 Mar 21 00:29	0°♉	
	6149 Apr 28 00:30	0°♊	
asc. node	6149 May 09 17:59	9°♊11'56	
evening set	6149 May 21 20:01	18°♊36'28	
	6149 Jun 05 14:47	0°♋	
	6149 Jul 15 14:35	0°♌	
conjunction	6149 Jul 26 04:39	7°♌42'57	0°47'17
minimum elong	6149 Jul 26 02:11	7°♌38'29	0°47'14
	6149 Aug 26 13:00	0°♍	
max. Earth dist.	6149 Sep 04 06:41	6°♍03'46	2.51433 AU
morning rise	6149 Sep 21 18:00	17°♍59'52	
	6149 Oct 09 16:15	0°♎	
	6149 Nov 25 02:34	0°♏	
	6150 Jan 13 05:07	0°♐	
	6150 Mar 08 06:41	0°♑	
desc. node	6150 May 08 21:38	24°♑25'28	

retrograde	6150 May 30 12:15	26°♉59'25	
opposition	6150 Jul 06 22:27	18°♉48'04	-2°16'18
greatest brilliancy	6150 Jul 07 11:02	18°♉36'16	-1.7m
min. Earth dist.	6150 Jul 13 17:29	16°♉15'14	0.58570 AU
direct	6150 Aug 16 15:00	9°♉04'33	
	6150 Oct 21 02:29	0°♒	
	6150 Dec 08 14:26	0°♓	
	6151 Jan 19 06:00	0°♈	
	6151 Feb 27 10:31	0°♉	
asc. node	6151 Mar 27 17:26	22°♉00'11	
	6151 Apr 07 00:49	0°♊	
	6151 May 16 05:44	0°♋	
	6151 Jun 25 21:16	0°♌	
evening set	6151 Jul 23 14:02	19°♌41'20	
	6151 Aug 07 10:31	0°♍	
conjunction	6151 Sep 15 01:36	26°♍05'54	1°07'28
minimum elong	6151 Sep 15 01:43	26°♍06'06	1°07'28
	6151 Sep 20 23:07	0°♎	
max. Earth dist.	6151 Oct 05 00:06	9°♎13'01	2.62036 AU
morning rise	6151 Nov 02 11:26	27°♎37'11	
	6151 Nov 06 04:44	0°♏	
	6151 Dec 23 18:42	0°♐	
	6152 Feb 10 16:00	0°♑	
desc. node	6152 Mar 25 20:34	26°♑00'53	
	6152 Apr 01 21:26	0°♒	
	6152 May 31 03:48	0°♓	
retrograde	6152 Jul 22 16:30	13°♓02'04	
opposition	6152 Aug 24 23:31	6°♓37'43	-5°41'17
greatest brilliancy	6152 Aug 26 15:57	6°♓04'19	-2.4m
min. Earth dist.	6152 Sep 02 10:08	3°♓51'36	0.45679 AU
	6152 Sep 17 08:50	30°℞♒	
direct	6152 Sep 30 08:26	28°♒48'16	
	6152 Oct 13 12:47	0°♓	
	6152 Dec 18 05:20	0°♈	
	6153 Jan 31 00:09	0°♉	
asc. node	6153 Feb 11 16:52	8°♉28'31	
	6153 Mar 13 00:14	0°♊	
	6153 Apr 22 23:45	0°♋	
	6153 Jun 04 02:50	0°♌	
	6153 Jul 17 21:30	0°♍	
	6153 Sep 01 07:24	0°♎	
evening set	6153 Sep 06 13:17	3°♎24'23	
	6153 Oct 17 22:23	0°♏	
conjunction	6153 Oct 23 18:19	3°♏43'03	0°51'09
minimum elong	6153 Oct 23 19:25	3°♏44'48	0°51'11
max. Earth dist.	6153 Oct 28 02:39	6°♏29'06	2.67368 AU
	6153 Dec 04 03:11	0°♐	
morning rise	6153 Dec 07 07:22	2°♐00'51	
	6154 Jan 20 08:14	0°♑	
desc. node	6154 Feb 10 18:59	13°♑40'42	
	6154 Mar 08 07:41	0°♒	
	6154 Apr 24 05:06	0°♓	
	6154 Jun 10 17:02	0°♈	
	6154 Jul 31 13:09	0°♉	
retrograde	6154 Oct 09 05:19	23°♉33'23	
opposition	6154 Nov 08 08:17	18°♉32'01	-3°47'01
greatest brilliancy	6154 Nov 08 10:34	18°♉30'30	-3.0m
min. Earth dist.	6154 Nov 07 16:51	18°♉42'16	0.36802 AU
direct	6154 Dec 07 18:49	13°♉38'32	
asc. node	6154 Dec 30 15:25	16°♉57'36	
	6155 Jan 31 21:31	0°♊	
	6155 Mar 24 20:06	0°♋	
	6155 May 10 22:38	0°♌	
	6155 Jun 26 16:36	0°♍	
	6155 Aug 12 22:49	0°♎	
	6155 Sep 29 14:05	0°♏	
evening set	6155 Oct 14 17:23	9°♏32'15	
	6155 Nov 16 00:42	0°♐	
max. Earth dist.	6155 Nov 19 19:09	2°♐24'05	2.67212 AU
conjunction	6155 Nov 28 15:45	8°♐03'38	0°16'21
minimum elong	6155 Nov 28 16:14	8°♐04'25	0°16'23
desc. node	6155 Dec 29 17:23	28°♐05'52	
	6156 Jan 01 15:32	0°♑	
morning rise	6156 Jan 11 15:36	6°♑32'08	
	6156 Feb 16 00:44	0°♒	
	6156 Mar 31 00:52	0°♓	
	6156 May 12 17:33	0°♈	
	6156 Jun 23 10:02	0°♉	
	6156 Aug 03 20:49	0°♊	
	6156 Sep 16 00:47	0°♋	
	6156 Nov 08 06:02	0°♌	
asc. node	6156 Nov 16 15:34	3°♌12'40	
retrograde	6156 Dec 14 07:42	8°♌21'22	
min. Earth dist.	6157 Jan 11 00:02	3°♌04'43	0.45772 AU
greatest brilliancy	6157 Jan 18 06:56	0°♌32'22	-2.4m
opposition	6157 Jan 19 11:14	0°♌07'36	3°35'35
	6157 Jan 19 19:58	30°℞♋	
direct	6157 Feb 21 02:53	23°♋27'05	
	6157 Mar 27 12:00	0°♌	
	6157 May 30 03:02	0°♍	
	6157 Jul 21 11:13	0°♎	
	6157 Sep 09 09:21	0°♏	
	6157 Oct 27 18:22	0°♐	
desc. node	6157 Nov 15 16:16	12°♐01'07	
evening set	6157 Nov 18 23:59	14°♐08'53	
max. Earth dist.	6157 Dec 12 20:35	29°♐38'00	2.61627 AU
	6157 Dec 13 10:00	0°♑	
conjunction	6158 Jan 03 15:46	14°♑05'16	-0°25'59
minimum elong	6158 Jan 03 14:56	14°♑03'52	0°25'57
	6158 Jan 27 02:51	0°♒	
morning rise	6158 Feb 19 16:18	16°♒22'20	
	6158 Mar 10 20:42	0°♓	
	6158 Apr 20 21:04	0°♈	
	6158 May 30 14:29	0°♉	
	6158 Jul 08 17:03	0°♊	
	6158 Aug 17 03:30	0°♋	
	6158 Sep 27 08:38	0°♌	
asc. node	6158 Oct 04 15:00	5°♌02'30	
	6158 Nov 12 08:51	0°♍	
retrograde	6159 Jan 28 06:47	28°♍11'22	
min. Earth dist.	6159 Mar 02 17:42	20°♍42'59	0.58728 AU
opposition	6159 Mar 08 16:58	18°♍22'23	4°54'48
greatest brilliancy	6159 Mar 07 16:20	18°♍46'37	-1.7m
direct	6159 Apr 14 19:13	9°♍52'46	
	6159 Jun 22 16:25	0°♎	
	6159 Aug 18 19:29	0°♏	
desc. node	6159 Oct 03 14:57	26°♏58'47	
	6159 Oct 08 13:31	0°♐	
	6159 Nov 24 22:35	0°♑	
evening set	6159 Dec 28 07:50	22°♑17'48	
	6160 Jan 08 12:35	0°♒	
max. Earth dist.	6160 Jan 12 04:27	2°♒32'35	2.51074 AU
conjunction	6160 Feb 16 15:58	27°♒48'48	-1°00'59
minimum elong	6160 Feb 16 14:46	27°♒46'38	1°00'57
	6160 Feb 19 15:56	0°♓	
	6160 Mar 30 20:11	0°♈	
morning rise	6160 Apr 13 09:17	10°♈22'21	
	6160 May 08 16:41	0°♉	
	6160 Jun 15 24:00	0°♊	

	6160 Jul 24 14:54	0°♋		
asc. node	6160 Aug 21 12:41	21°♋07'39		
	6160 Sep 02 12:35	0°♌		
	6160 Oct 14 21:26	0°♍		
	6160 Nov 30 20:09	0°♎		
	6161 Feb 01 05:17	0°♏		
retrograde	6161 Mar 04 10:21	5°♏28'08		
	6161 Apr 02 06:51	30°℞♎		
min. Earth dist.	6161 Apr 11 17:00	26°♎23'50	0.66472 AU	
opposition	6161 Apr 13 20:15	25°♎32'40	3°48'45	
greatest brilliancy	6161 Apr 13 13:35	25°♎39'19	-1.3m	
direct	6161 May 23 18:53	16°♎03'48		
	6161 Jul 18 11:48	0°♏		
desc. node	6161 Aug 20 13:57	15°♏43'11		
	6161 Sep 15 18:21	0°♐		
	6161 Nov 04 08:53	0°♑		
	6161 Dec 19 12:12	0°♒		
	6162 Jan 30 12:36	0°♓		
evening set	6162 Feb 14 15:01	11°♓13'33		
	6162 Mar 11 07:22	0°♈		
max. Earth dist.	6162 Mar 14 21:52	2°♈46'50	2.38134 AU	
conjunction	6162 Apr 17 16:05	29°♈10'04	-0°51'24	
minimum elong	6162 Apr 17 19:10	29°♈16'09	0°51'23	
	6162 Apr 18 17:25	0°♉		
	6162 May 26 16:23	0°♊		
morning rise	6162 Jun 28 14:40	25°♊46'46		
	6162 Jul 04 01:40	0°♋		
asc. node	6162 Jul 09 11:35	4°♋09'59		
	6162 Aug 12 17:30	0°♌		
	6162 Sep 23 10:29	0°♍		
	6162 Nov 06 23:40	0°♎		
	6162 Dec 25 22:21	0°♏		
	6163 Feb 25 06:43	0°♐		
retrograde	6163 Apr 07 15:38	8°♐36'39		
	6163 May 15 12:07	30°℞♏		
opposition	6163 May 17 17:23	29°♏07'36	1°45'28	
greatest brilliancy	6163 May 17 20:19	29°♏04'43	-1.3m	
min. Earth dist.	6163 May 19 10:17	28°♏27'15	0.67697 AU	
direct	6163 Jun 28 03:34	19°♏09'03		
desc. node	6163 Jul 08 13:20	19°♏47'24		
	6163 Aug 14 14:47	0°♐		
	6163 Oct 12 17:50	0°♑		
	6163 Nov 29 01:00	0°♒		
	6164 Jan 10 14:41	0°♓		
	6164 Feb 19 10:15	0°♈		
	6164 Mar 28 18:12	0°♉		
evening set	6164 Apr 22 15:03	19°♉41'04		
	6164 May 05 16:26	0°♊		
asc. node	6164 May 26 11:34	16°♊18'53		
	6164 Jun 13 03:45	0°♋		
conjunction	6164 Jun 30 22:37	13°♋33'24	0°24'03	
minimum elong	6164 Jun 30 20:33	13°♋29'30	0°23'59	
	6164 Jul 22 23:26	0°♌		
max. Earth dist.	6164 Aug 18 14:18	19°♌17'59	2.46099 AU	
morning rise	6164 Sep 02 02:08	29°♌32'23		
	6164 Sep 02 17:55	0°♍		
	6164 Oct 16 19:57	0°♎		
	6164 Dec 02 13:20	0°♏		
	6165 Jan 21 21:47	0°♐		
	6165 Mar 22 16:20	0°♑		
retrograde	6165 May 13 21:17	12°♑35'22		
desc. node	6165 May 25 12:37	11°♑44'47		
opposition	6165 Jun 21 08:36	3°♑55'55	-1°00'14	
greatest brilliancy	6165 Jun 21 13:01	3°♑51'42	-1.5m	
min. Earth dist.	6165 Jun 26 19:14	1°♑50'44	0.62362 AU	
	6165 Jul 01 18:39	30°℞♐		
direct	6165 Aug 01 16:12	23°♐58'02		
	6165 Sep 03 15:21	0°♑		
	6165 Nov 03 05:45	0°♒		
	6165 Dec 18 10:57	0°♓		
	6166 Jan 28 03:43	0°♈		
	6166 Mar 07 21:28	0°♉		
asc. node	6166 Apr 13 09:24	28°♉36'58		
	6166 Apr 15 03:56	0°♊		
	6166 May 24 01:18	0°♋		
evening set	6166 Jul 01 14:41	28°♋43'06		
	6166 Jul 03 08:54	0°♌		
	6166 Aug 14 14:44	0°♍		
conjunction	6166 Aug 28 03:44	9°♍19'08	1°05'22	
minimum elong	6166 Aug 28 02:53	9°♍17'42	1°05'21	
max. Earth dist.	6166 Sep 24 06:22	27°♍34'48	2.58481 AU	
	6166 Sep 27 21:54	0°♎		
morning rise	6166 Oct 18 08:00	13°♎24'01		
	6166 Nov 13 03:02	0°♏		
	6166 Dec 31 02:14	0°♐		
	6167 Feb 19 06:16	0°♑		
desc. node	6167 Apr 12 11:00	28°♑27'10		
	6167 Apr 15 14:01	0°♒		
retrograde	6167 Jun 30 00:22	23°♒14'32		
opposition	6167 Aug 04 03:40	16°♒01'26	-4°25'26	
greatest brilliancy	6167 Aug 05 10:26	15°♒34'12	-2.1m	
min. Earth dist.	6167 Aug 12 12:02	13°♒04'37	0.51082 AU	
direct	6167 Sep 11 19:17	7°♒09'35		
	6167 Nov 17 05:13	0°♓		
	6168 Jan 02 07:49	0°♈		
	6168 Feb 12 04:11	0°♉		
asc. node	6168 Feb 29 08:54	13°♉00'10		
	6168 Mar 22 18:29	0°♊		
	6168 May 01 18:52	0°♋		
	6168 Jun 12 03:39	0°♌		
	6168 Jul 25 07:51	0°♍		
evening set	6168 Aug 21 01:39	17°♍58'08		
	6168 Sep 08 07:17	0°♎		
conjunction	6168 Oct 09 03:01	20°♎00'29	1°00'23	
minimum elong	6168 Oct 09 03:59	20°♎02'01	1°00'24	
max. Earth dist.	6168 Oct 19 05:53	26°♎30'19	2.65937 AU	
	6168 Oct 24 16:55	0°♏		
morning rise	6168 Nov 23 17:07	19°♏05'32		
	6168 Dec 10 23:03	0°♐		
	6169 Jan 27 15:21	0°♑		
desc. node	6169 Feb 27 09:16	19°♑13'11		
	6169 Mar 16 18:00	0°♒		
	6169 May 05 00:50	0°♓		
	6169 Jun 27 12:37	0°♈		
retrograde	6169 Sep 06 09:52	22°♈34'17		
opposition	6169 Oct 06 17:03	17°♈27'32	-6°01'43	
greatest brilliancy	6169 Oct 07 22:02	17°♈07'26	-2.8m	
min. Earth dist.	6169 Oct 11 16:26	16°♈04'58	0.38519 AU	
direct	6169 Nov 07 07:55	11°♈47'42		
	6170 Jan 03 10:07	0°♉		
asc. node	6170 Jan 16 09:32	7°♉20'14		
	6170 Feb 21 05:29	0°♊		
	6170 Apr 06 14:21	0°♋		
	6170 May 20 19:13	0°♌		
	6170 Jul 04 23:35	0°♍		
	6170 Aug 20 07:47	0°♎		
evening set	6170 Sep 30 09:35	26°♎09'07		
	6170 Oct 06 11:15	0°♏		
max. Earth dist.	6170 Nov 10 21:41	22°♏28'08	2.67928 AU	

conjunction	6170 Nov 14 20:33	24°♏58'49	0°31'15
minimum elong	6170 Nov 14 21:25	25°♏00'10	0°31'17
	6170 Nov 22 17:59	0°♐	
morning rise	6170 Dec 28 16:44	23°♐00'38	
	6171 Jan 08 12:30	0°♑	
desc. node	6171 Jan 15 07:43	4°♑24'24	
	6171 Feb 23 09:16	0°♒	
	6171 Apr 09 05:12	0°♓	
	6171 May 23 02:48	0°♈	
	6171 Jul 05 11:39	0°♉	
	6171 Aug 18 16:07	0°♊	
	6171 Oct 08 14:54	0°♋	
retrograde	6171 Nov 22 18:25	12°♋25'43	
asc. node	6171 Dec 04 08:47	11°♋27'08	
min. Earth dist.	6171 Dec 19 02:16	7°♋50'58	0.40715 AU
opposition	6171 Dec 26 10:48	5°♋32'38	1°29'28
greatest brilliancy	6171 Dec 25 23:26	5°♋41'36	-2.8m
	6172 Jan 20 22:54	30℞♊	
direct	6172 Jan 26 04:24	29°♊48'48	
	6172 Jan 31 11:25	0°♋	
	6172 Apr 19 09:50	0°♌	
	6172 Jun 10 08:59	0°♍	
	6172 Jul 29 22:38	0°♎	
	6172 Sep 16 17:25	0°♏	
	6172 Nov 03 15:17	0°♐	
evening set	6172 Nov 04 19:20	0°♐44'28	
desc. node	6172 Dec 02 06:25	18°♐19'05	
max. Earth dist.	6172 Dec 03 05:52	18°♐56'58	2.64445 AU
conjunction	6172 Dec 19 19:36	29°♐44'06	-0°09'27
minimum elong	6172 Dec 19 19:18	29°♐43'37	0°09'24
behind sun begin	6172 Dec 19 03:45	29°♐18'10	
behind sun end	6172 Dec 20 10:52	0°♑09'05	
	6172 Dec 20 05:19	0°♑	
morning rise	6173 Feb 03 02:57	29°♑59'27	
	6173 Feb 03 03:16	0°♒	
	6173 Mar 18 06:49	0°♓	
	6173 Apr 28 19:43	0°♈	
	6173 Jun 08 02:31	0°♉	
	6173 Jul 17 18:58	0°♊	
	6173 Aug 26 23:07	0°♋	
	6173 Oct 08 16:03	0°♌	
asc. node	6173 Oct 21 06:55	8°♌09'30	
	6173 Nov 29 20:25	0°♍	
retrograde	6174 Jan 12 08:56	11°♍09'10	
min. Earth dist.	6174 Feb 12 13:39	4°♍29'14	0.54103 AU
opposition	6174 Feb 19 21:29	1°♍41'15	4°51'36
greatest brilliancy	6174 Feb 18 15:01	2°♍10'29	-1.9m
	6174 Feb 24 09:16	30℞♌	
direct	6174 Mar 27 11:23	23°♌46'44	
	6174 Apr 30 13:54	0°♍	
	6174 Jul 05 07:00	0°♎	
	6174 Aug 27 08:45	0°♏	
	6174 Oct 15 22:08	0°♐	
desc. node	6174 Oct 20 05:25	2°♐40'57	
	6174 Dec 01 22:16	0°♑	
evening set	6174 Dec 12 07:17	6°♑50'19	
max. Earth dist.	6174 Dec 30 01:42	18°♑44'55	2.55740 AU
	6175 Jan 15 12:26	0°♒	
conjunction	6175 Jan 29 04:10	9°♒30'48	-0°49'52
minimum elong	6175 Jan 29 02:45	9°♒28'20	0°49'50
	6175 Feb 26 20:34	0°♓	
morning rise	6175 Mar 21 22:30	16°♓57'54	
	6175 Apr 08 07:42	0°♈	
	6175 May 17 11:02	0°♉	
	6175 Jun 25 00:01	0°♊	
	6175 Aug 02 19:47	0°♋	
asc. node	6175 Sep 08 06:29	27°♋16'56	
	6175 Sep 11 23:59	0°♌	
	6175 Oct 25 01:36	0°♍	
	6175 Dec 13 17:37	0°♎	
retrograde	6176 Feb 19 21:43	21°♎58'26	
min. Earth dist.	6176 Mar 27 10:59	13°♎27'13	0.64200 AU
opposition	6176 Mar 31 02:33	11°♎59'53	4°23'21
greatest brilliancy	6176 Mar 30 13:16	12°♎13'08	-1.4m
direct	6176 May 09 02:07	2°♎49'58	
	6176 Aug 01 03:01	0°♏	
desc. node	6176 Sep 06 04:45	19°♏25'11	
	6176 Sep 24 10:48	0°♐	
	6176 Nov 11 21:56	0°♑	
	6176 Dec 26 18:05	0°♒	
evening set	6177 Jan 24 14:40	20°♒24'45	
	6177 Feb 06 18:36	0°♓	
max. Earth dist.	6177 Feb 08 20:48	1°♓32'18	2.42980 AU
	6177 Mar 18 16:23	0°♈	
conjunction	6177 Mar 22 03:19	2°♈39'20	-1°04'15
minimum elong	6177 Mar 22 04:21	2°♈41'20	1°04'15
	6177 Apr 26 05:49	0°♉	
morning rise	6177 May 28 05:22	25°♉12'45	
	6177 Jun 03 07:12	0°♊	
	6177 Jul 11 17:36	0°♋	
asc. node	6177 Jul 26 04:32	11°♋04'29	
	6177 Aug 20 09:55	0°♌	
	6177 Oct 01 05:23	0°♍	
	6177 Nov 15 06:45	0°♎	
	6178 Jan 05 08:51	0°♏	
retrograde	6178 Mar 25 06:11	26°♏03'25	
opposition	6178 May 04 14:32	16°♏21'15	2°38'18
greatest brilliancy	6178 May 04 15:17	16°♏20'30	-1.3m
min. Earth dist.	6178 May 04 19:24	16°♏16'25	0.68017 AU
direct	6178 Jun 14 14:43	6°♏31'10	
desc. node	6178 Jul 25 04:03	14°♏38'09	
	6178 Aug 29 12:44	0°♐	
	6178 Oct 21 21:15	0°♑	
	6178 Dec 07 00:57	0°♒	
	6179 Jan 18 07:03	0°♓	
	6179 Feb 27 01:05	0°♈	
evening set	6179 Mar 25 20:27	20°♈54'52	
	6179 Apr 06 08:50	0°♉	
	6179 May 14 06:16	0°♊	
conjunction	6179 Jun 03 07:06	15°♊44'46	-0°06'58
minimum elong	6179 Jun 03 07:50	15°♊46'11	0°07'00
behind sun begin	6179 Jun 02 04:23	14°♊52'33	
behind sun end	6179 Jun 04 11:16	16°♊39'48	
asc. node	6179 Jun 13 03:11	23°♊24'31	
	6179 Jun 21 15:44	0°♋	
max. Earth dist.	6179 Jul 26 00:02	26°♋01'32	2.40595 AU
	6179 Jul 31 08:39	0°♌	
morning rise	6179 Aug 11 07:29	8°♌02'21	
	6179 Sep 11 00:46	0°♍	
	6179 Oct 25 04:03	0°♎	
	6179 Dec 11 09:39	0°♏	
	6180 Feb 01 19:55	0°♐	
retrograde	6180 Apr 28 16:46	29°♐09'40	
opposition	6180 Jun 06 23:10	20°♐07'37	0°08'59
greatest brilliancy	6180 Jun 06 23:51	20°♐06'58	-1.4m
min. Earth dist.	6180 Jun 10 23:01	18°♐34'23	0.65236 AU
desc. node	6180 Jun 11 02:42	18°♐30'49	
direct	6180 Jul 18 13:06	10°♐04'42	
	6180 Sep 22 21:56	0°♑	
	6180 Nov 13 13:58	0°♒	

	6180 Dec 27 07:25	0°♓	
	6181 Feb 05 12:24	0°♈	
	6181 Mar 16 00:19	0°♉	
	6181 Apr 23 01:50	0°♊	
asc. node	6181 Apr 30 03:23	5°♊32'15	
	6181 May 31 17:36	0°♋	
evening set	6181 Jun 06 09:25	4°♋18'55	
	6181 Jul 10 18:50	0°♌	
conjunction	6181 Aug 07 22:38	20°♌17'11	0°56'18
minimum elong	6181 Aug 07 20:38	20°♌13'39	0°56'17
	6181 Aug 21 18:26	0°♍	
max. Earth dist.	6181 Sep 12 05:54	14°♍47'03	2.54123 AU
morning rise	6181 Oct 01 21:53	28°♍00'43	
	6181 Oct 04 21:40	0°♎	
	6181 Nov 20 04:28	0°♏	
	6182 Jan 07 17:59	0°♐	
	6182 Feb 28 22:20	0°♑	
desc. node	6182 Apr 29 01:20	27°♑44'07	
	6182 May 05 16:29	0°♒	
retrograde	6182 Jun 09 20:22	6°♒17'25	
	6182 Jul 12 03:31	30°℞♑	
opposition	6182 Jul 16 13:00	28°♑24'39	-3°02'46
greatest brilliancy	6182 Jul 17 07:41	28°♑07'24	-1.8m
min. Earth dist.	6182 Jul 23 23:38	25°♑39'51	0.56096 AU
direct	6182 Aug 25 15:50	18°♑54'36	
	6182 Oct 09 09:29	0°♒	
	6182 Dec 01 12:16	0°♓	
	6183 Jan 13 04:27	0°♈	
	6183 Feb 21 19:27	0°♉	
asc. node	6183 Mar 18 02:35	18°♉45'34	
	6183 Apr 01 16:10	0°♊	
	6183 May 11 02:20	0°♋	
	6183 Jun 20 22:20	0°♌	
	6183 Aug 02 15:19	0°♍	
evening set	6183 Aug 03 20:06	0°♍49'22	
	6183 Sep 16 06:22	0°♎	
conjunction	6183 Sep 24 12:22	5°♎25'17	1°06'08
minimum elong	6183 Sep 24 12:54	5°♎26'09	1°06'08
max. Earth dist.	6183 Oct 10 18:45	16°♎00'57	2.63640 AU
	6183 Nov 01 12:14	0°♏	
morning rise	6183 Nov 10 17:51	5°♏53'39	
	6183 Dec 18 22:01	0°♐	
	6184 Feb 05 06:36	0°♑	
desc. node	6184 Mar 15 23:27	24°♑01'40	
	6184 Mar 26 01:51	0°♒	
	6184 May 18 21:16	0°♓	
retrograde	6184 Aug 06 18:49	26°♓16'06	
opposition	6184 Sep 08 00:32	20°♓21'34	-6°10'24
greatest brilliancy	6184 Sep 09 18:14	19°♓49'03	-2.5m
min. Earth dist.	6184 Sep 15 22:51	17°♓54'34	0.42785 AU
direct	6184 Oct 12 18:22	13°♓17'04	
	6184 Dec 05 17:52	0°♈	
	6185 Jan 22 19:09	0°♉	
asc. node	6185 Feb 02 01:12	7°♉06'07	
	6185 Mar 06 05:24	0°♊	
	6185 Apr 17 00:06	0°♋	
	6185 May 29 16:15	0°♌	
	6185 Jul 12 20:13	0°♍	
	6185 Aug 27 12:26	0°♎	
evening set	6185 Sep 15 10:49	12°♎12'22	
	6185 Oct 13 06:52	0°♏	
conjunction	6185 Oct 31 21:38	11°♏50'31	0°44'28
minimum elong	6185 Oct 31 22:42	11°♏52'12	0°44'29
max. Earth dist.	6185 Nov 02 05:16	12°♏40'45	2.67794 AU
	6185 Nov 29 11:35	0°♐	
morning rise	6185 Dec 15 01:44	9°♐55'06	
	6186 Jan 15 12:10	0°♑	
desc. node	6186 Jan 31 21:59	10°♑32'23	
	6186 Mar 03 00:42	0°♒	
	6186 Apr 18 00:55	0°♓	
	6186 Jun 02 20:47	0°♈	
	6186 Jul 19 14:40	0°♉	
	6186 Sep 10 23:53	0°♊	
retrograde	6186 Oct 26 17:24	12°♊03'42	
min. Earth dist.	6186 Nov 22 22:29	7°♊36'19	0.37354 AU
opposition	6186 Nov 26 15:17	6°♊35'23	-1°48'28
greatest brilliancy	6186 Nov 26 11:31	6°♊37'59	-3.0m
asc. node	6186 Dec 21 01:18	1°♊46'57	
direct	6186 Dec 26 00:20	1°♊37'14	
	6187 Mar 14 16:29	0°♋	
	6187 May 03 22:05	0°♌	
	6187 Jun 20 22:28	0°♍	
	6187 Aug 07 20:21	0°♎	
	6187 Sep 24 19:58	0°♏	
evening set	6187 Oct 22 18:41	17°♏33'47	
	6187 Nov 11 10:01	0°♐	
max. Earth dist.	6187 Nov 24 23:47	8°♐39'28	2.66444 AU
conjunction	6187 Dec 06 14:55	16°♐07'37	0°07'05
minimum elong	6187 Dec 06 15:08	16°♐07'59	0°07'08
behind sun begin	6187 Dec 05 22:14	15°♐40'47	
behind sun end	6187 Dec 07 08:02	16°♐35'11	
desc. node	6187 Dec 19 21:03	24°♐41'58	
	6187 Dec 28 00:22	0°♑	
morning rise	6188 Jan 19 22:16	15°♑04'49	
	6188 Feb 11 05:15	0°♒	
	6188 Mar 25 21:20	0°♓	
	6188 May 07 02:54	0°♈	
	6188 Jun 17 05:08	0°♉	
	6188 Jul 27 20:21	0°♊	
	6188 Sep 07 11:07	0°♋	
	6188 Oct 23 23:44	0°♌	
asc. node	6188 Nov 07 00:23	7°♌30'58	
retrograde	6188 Dec 25 13:20	21°♌27'25	
min. Earth dist.	6189 Jan 23 09:35	15°♌41'22	0.48812 AU
greatest brilliancy	6189 Jan 30 09:11	13°♌09'22	-2.2m
opposition	6189 Jan 31 16:53	12°♌40'27	4°17'00
direct	6189 Mar 06 11:47	5°♌30'46	
	6189 May 21 10:55	0°♍	
	6189 Jul 15 11:05	0°♎	
	6189 Sep 04 06:52	0°♏	
	6189 Oct 23 00:53	0°♐	
desc. node	6189 Nov 05 20:01	8°♐42'46	
evening set	6189 Nov 27 05:57	22°♐27'18	
	6189 Dec 08 19:36	0°♑	
max. Earth dist.	6189 Dec 18 19:11	6°♑34'50	2.59739 AU
conjunction	6190 Jan 12 12:12	23°♑10'17	-0°35'16
minimum elong	6190 Jan 12 11:05	23°♑08'23	0°35'13
	6190 Jan 22 11:47	0°♒	
morning rise	6190 Mar 01 21:25	26°♒58'47	
	6190 Mar 06 02:14	0°♓	
	6190 Apr 15 21:40	0°♈	
	6190 May 25 09:32	0°♉	
	6190 Jul 03 06:10	0°♊	
	6190 Aug 11 09:41	0°♋	
	6190 Sep 21 02:11	0°♌	
asc. node	6190 Sep 24 22:00	2°♌43'12	
	6190 Nov 04 12:56	0°♍	
	6190 Dec 31 19:02	0°♎	
retrograde	6191 Feb 05 18:56	7°♎31'23	

	6191 Mar 11 12:02	30°℞♍	
min. Earth dist.	6191 Mar 12 10:02	29°♍38'30	0.60957 AU
opposition	6191 Mar 17 13:25	27°♍36'18	4°47'32
greatest brilliancy	6191 Mar 16 16:50	27°♍56'44	-1.6m
direct	6191 Apr 24 08:54	18°♍50'30	
	6191 Jun 11 21:06	0°♎	
	6191 Aug 12 15:41	0°♏	
desc. node	6191 Sep 23 18:41	24°♏11'22	
	6191 Oct 03 10:32	0°♐	
	6191 Nov 20 04:20	0°♑	
	6192 Jan 03 20:59	0°♒	
evening set	6192 Jan 07 00:02	2°♒10'13	
max. Earth dist.	6192 Jan 20 22:57	11°♒58'05	2.48295 AU
	6192 Feb 14 23:49	0°♓	
conjunction	6192 Feb 28 03:57	9°♓42'41	-1°04'45
minimum elong	6192 Feb 28 03:16	9°♓41'25	1°04'45
	6192 Mar 26 02:07	0°♈	
morning rise	6192 Apr 28 08:41	25°♈43'06	
	6192 May 03 20:07	0°♉	
	6192 Jun 11 00:48	0°♊	
greatest brilliancy	6192 Jul 05 09:21	19°♊02'41	1.2m
	6192 Jul 19 13:10	0°♋	
asc. node	6192 Aug 11 21:45	17°♋47'08	
	6192 Aug 28 07:23	0°♌	
	6192 Oct 09 08:29	0°♍	
	6192 Nov 24 07:41	0°♎	
	6193 Jan 18 22:33	0°♏	
retrograde	6193 Mar 12 01:48	13°♏23'53	
min. Earth dist.	6193 Apr 20 04:58	4°♏03'06	0.67310 AU
opposition	6193 Apr 21 12:07	3°♏32'00	3°24'47
greatest brilliancy	6193 Apr 21 08:37	3°♏35'30	-1.3m
	6193 Apr 30 14:57	30°℞♎	
direct	6193 May 31 20:56	23°♎54'26	
	6193 Jul 05 12:53	0°♏	
desc. node	6193 Aug 10 17:48	14°♏41'28	
	6193 Sep 09 11:14	0°♐	
	6193 Oct 30 03:40	0°♑	
	6193 Dec 14 15:14	0°♒	
	6194 Jan 25 17:54	0°♓	
evening set	6194 Feb 27 19:15	24°♓49'53	
	6194 Mar 06 12:47	0°♈	
	6194 Apr 13 22:13	0°♉	
conjunction	6194 May 04 00:27	15°♉53'38	-0°38'00
minimum elong	6194 May 04 03:44	16°♉00'06	0°37'59
max. Earth dist.	6194 May 07 21:06	18°♉56'58	2.36730 AU
	6194 May 21 20:27	0°♊	
asc. node	6194 Jun 29 21:14	0°♋30'50	
	6194 Jun 29 05:15	0°♋	
morning rise	6194 Jul 15 09:17	12°♋23'15	
	6194 Aug 07 20:30	0°♌	
	6194 Sep 18 11:30	0°♍	
	6194 Nov 01 18:39	0°♎	
	6194 Dec 19 20:31	0°♏	
	6195 Feb 14 05:45	0°♐	
retrograde	6195 Apr 15 12:04	16°♐19'11	
opposition	6195 May 25 08:08	6°♐58'46	1°11'36
greatest brilliancy	6195 May 25 11:06	6°♐55'51	-1.3m
min. Earth dist.	6195 May 27 20:41	5°♐59'14	0.67099 AU
	6195 Jun 14 00:42	30°℞♏	
desc. node	6195 Jun 28 16:54	27°♏16'46	
direct	6195 Jul 05 21:09	26°♏57'09	
	6195 Jul 29 08:01	0°♐	
	6195 Oct 06 02:52	0°♑	
	6195 Nov 23 14:08	0°♒	
	6196 Jan 05 12:22	0°♓	
	6196 Feb 14 10:58	0°♈	
	6196 Mar 23 20:05	0°♉	
	6196 Apr 30 18:57	0°♊	
greatest brilliancy	6196 May 04 21:31	3°♊13'57	1.2m
evening set	6196 May 09 04:31	6°♊36'12	
asc. node	6196 May 16 19:33	12°♊34'29	
	6196 Jun 08 07:11	0°♋	
conjunction	6196 Jul 15 15:23	28°♋08'13	0°38'29
minimum elong	6196 Jul 15 12:49	28°♋03'29	0°38'24
	6196 Jul 18 04:02	0°♌	
	6196 Aug 28 23:10	0°♍	
max. Earth dist.	6196 Aug 28 16:15	29°♌47'53	2.49103 AU
morning rise	6196 Sep 13 13:40	10°♍48'36	
	6196 Oct 12 00:17	0°♎	
	6196 Nov 27 11:36	0°♏	
	6197 Jan 15 23:23	0°♐	
	6197 Mar 12 17:37	0°♑	
desc. node	6197 May 15 15:22	20°♑49'15	
retrograde	6197 May 23 03:44	21°♑09'05	
opposition	6197 Jun 30 01:44	12°♑44'25	-1°43'32
greatest brilliancy	6197 Jun 30 10:25	12°♑36'11	-1.6m
min. Earth dist.	6197 Jul 06 06:16	10°♑23'28	0.60387 AU
direct	6197 Aug 10 01:57	2°♑52'56	
	6197 Oct 26 11:52	0°♒	
	6197 Dec 12 09:24	0°♓	
	6198 Jan 22 14:53	0°♈	
	6198 Mar 02 14:33	0°♉	
asc. node	6198 Apr 03 18:40	25°♉07'51	
	6198 Apr 10 00:39	0°♊	
	6198 May 19 01:08	0°♋	
	6198 Jun 28 11:46	0°♌	
evening set	6198 Jul 14 09:45	11°♌26'42	
	6198 Aug 09 20:09	0°♍	
conjunction	6198 Sep 07 13:52	19°♍34'50	1°07'18
minimum elong	6198 Sep 07 13:37	19°♍34'26	1°07'18
	6198 Sep 23 05:01	0°♎	
max. Earth dist.	6198 Sep 30 13:17	4°♎50'47	2.60547 AU
morning rise	6198 Oct 27 02:46	22°♎07'54	
	6198 Nov 08 09:11	0°♏	
	6198 Dec 26 01:50	0°♐	
	6199 Feb 13 10:08	0°♑	
desc. node	6199 Apr 02 14:13	27°♑36'32	
	6199 Apr 07 00:11	0°♒	
	6199 Jun 13 18:41	0°♓	
retrograde	6199 Jul 12 21:13	4°♓31'58	
	6199 Aug 09 03:41	30°℞♒	
opposition	6199 Aug 16 01:01	27°♒44'36	-5°10'37
greatest brilliancy	6199 Aug 17 13:55	27°♒13'01	-2.2m
min. Earth dist.	6199 Aug 24 13:45	24°♒50'24	0.48112 AU
direct	6199 Sep 22 12:22	19°♒24'08	
	6199 Nov 03 16:21	0°♓	
	6199 Dec 25 07:32	0°♈	
	6200 Feb 05 12:45	0°♉	
asc. node	6200 Feb 19 18:35	10°♉33'22	
	6200 Mar 17 19:12	0°♊	
	6200 Apr 27 06:22	0°♋	
	6200 Jun 07 23:30	0°♌	
	6200 Jul 21 09:57	0°♍	
evening set	6200 Aug 31 14:57	27°♍24'43	
	6200 Sep 04 13:54	0°♎	
conjunction	6200 Oct 18 13:46	28°♎24'25	0°55'22
minimum elong	6200 Oct 18 14:51	28°♎26'08	0°55'23
	6200 Oct 21 01:36	0°♏	
max. Earth dist.	6200 Oct 25 12:26	2°♏50'32	2.66831 AU

morning rise	6200 Dec 02 12:21	26°♏59'15	
	6200 Dec 07 06:27	0°♐	
	6201 Jan 23 16:08	0°♑	
desc. node	6201 Feb 18 12:59	16°♑22'11	
	6201 Mar 12 02:24	0°♒	
	6201 Apr 28 21:13	0°♓	
	6201 Jun 17 07:00	0°♈	
	6201 Aug 13 23:52	0°♉	
retrograde	6201 Sep 25 20:13	10°♉03'21	
opposition	6201 Oct 25 19:09	5°♉07'43	-5°01'26
greatest brilliancy	6201 Oct 26 08:43	4°♉58'39	-3.0m
min. Earth dist.	6201 Oct 27 19:39	4°♉35'22	0.37147 AU
direct	6201 Nov 24 23:04	0°♉01'48	
asc. node	6202 Jan 07 17:05	11°♉16'11	
	6202 Feb 11 16:00	0°♊	
	6202 Mar 31 01:59	0°♋	
	6202 May 15 15:34	0°♌	
	6202 Jun 30 14:05	0°♍	
	6202 Aug 16 09:12	0°♎	
	6202 Oct 02 18:36	0°♏	
evening set	6202 Oct 09 15:09	4°♏19'51	
max. Earth dist.	6202 Nov 17 00:34	28°♏39'07	2.67643 AU
	6202 Nov 19 03:25	0°♐	
conjunction	6202 Nov 23 17:41	2°♐55'36	0°22'43
minimum elong	6202 Nov 23 18:21	2°♐56'38	0°22'45
	6203 Jan 04 20:20	0°♑	
morning rise	6203 Jan 06 14:18	1°♑08'10	
desc. node	6203 Jan 06 11:27	1°♑03'31	
	6203 Feb 19 11:04	0°♒	
	6203 Apr 04 20:08	0°♓	
	6203 May 18 00:59	0°♈	
	6203 Jun 29 09:03	0°♉	
	6203 Aug 10 17:42	0°♊	
	6203 Sep 24 20:32	0°♋	
asc. node	6203 Nov 25 16:48	27°♋10'58	
retrograde	6203 Dec 07 00:26	28°♋06'36	
min. Earth dist.	6204 Jan 02 21:06	23°♋11'52	0.43390 AU
greatest brilliancy	6204 Jan 10 04:47	20°♋45'20	-2.6m
opposition	6204 Jan 11 03:36	20°♋26'13	2°51'10
direct	6204 Feb 11 21:24	14°♋10'54	
	6204 Apr 08 17:57	0°♌	
	6204 Jun 04 09:42	0°♍	
	6204 Jul 25 09:07	0°♎	
	6204 Sep 12 18:35	0°♏	
	6204 Oct 30 22:56	0°♐	
evening set	6204 Nov 13 21:07	8°♐50'21	
desc. node	6204 Nov 23 10:12	14°♐57'12	
max. Earth dist.	6204 Dec 09 19:25	25°♐33'15	2.62995 AU
	6204 Dec 16 14:42	0°♑	
conjunction	6204 Dec 29 04:13	8°♑16'50	-0°19'06
minimum elong	6204 Dec 29 03:36	8°♑15'49	0°19'03
	6205 Jan 30 10:44	0°♒	
morning rise	6205 Feb 13 07:43	9°♒32'58	
	6205 Mar 14 09:49	0°♓	
	6205 Apr 24 16:21	0°♈	
	6205 Jun 03 16:01	0°♉	
	6205 Jul 13 00:08	0°♊	
	6205 Aug 21 16:39	0°♋	
	6205 Oct 02 08:29	0°♌	
asc. node	6205 Oct 12 16:34	7°♌01'12	
	6205 Nov 18 22:34	0°♍	
retrograde	6206 Jan 22 15:43	21°♍34'50	
min. Earth dist.	6206 Feb 24 02:50	14°♍26'59	0.56746 AU
opposition	6206 Mar 02 16:49	11°♍53'18	4°56'49
greatest brilliancy	6206 Mar 01 13:14	12°♍20'14	-1.8m
direct	6206 Apr 08 02:51	3°♍38'21	
	6206 Jun 28 13:34	0°♎	
	6206 Aug 22 17:32	0°♏	
desc. node	6206 Oct 11 08:48	29°♏37'34	
	6206 Oct 11 23:21	0°♐	
	6206 Nov 28 05:43	0°♑	
evening set	6206 Dec 22 06:38	15°♑56'40	
max. Earth dist.	6207 Jan 07 07:07	26°♑50'40	2.53237 AU
	6207 Jan 11 21:01	0°♒	
conjunction	6207 Feb 09 09:12	20°♒03'39	-0°56'51
minimum elong	6207 Feb 09 07:49	20°♒01'12	0°56'49
	6207 Feb 23 03:35	0°♓	
morning rise	6207 Apr 04 16:00	0°♈08'18	
	6207 Apr 04 11:37	0°♈	
	6207 May 13 11:37	0°♉	
	6207 Jun 20 21:19	0°♊	
	6207 Jul 29 13:40	0°♋	
asc. node	6207 Aug 30 14:50	24°♋10'30	
	6207 Sep 07 12:47	0°♌	
	6207 Oct 20 01:39	0°♍	
	6207 Dec 06 18:48	0°♎	
	6208 Feb 22 07:52	0°♏	
retrograde	6208 Feb 28 17:31	0°♏15'43	
	6208 Mar 05 23:40	30°℞♎	
min. Earth dist.	6208 Apr 06 05:55	21°♎25'32	0.65571 AU
opposition	6208 Apr 09 01:15	20°♎18'14	4°04'23
greatest brilliancy	6208 Apr 08 15:49	20°♎27'40	-1.4m
direct	6208 May 18 13:44	10°♎57'22	
	6208 Jul 24 20:41	0°♏	
desc. node	6208 Aug 28 07:51	17°♏24'50	
	6208 Sep 19 18:18	0°♐	
	6208 Nov 07 22:06	0°♑	
	6208 Dec 22 23:48	0°♒	
	6209 Feb 03 01:34	0°♓	
evening set	6209 Feb 06 02:58	2°♓15'05	
max. Earth dist.	6209 Feb 25 23:03	17°♓03'38	2.40162 AU
	6209 Mar 14 22:32	0°♈	
conjunction	6209 Apr 06 14:06	17°♈33'44	-0°58'41
minimum elong	6209 Apr 06 16:23	17°♈38'13	0°58'41
	6209 Apr 22 10:31	0°♉	
	6209 May 30 10:22	0°♊	
morning rise	6209 Jun 15 21:31	12°♊56'49	
	6209 Jul 07 19:25	0°♋	
asc. node	6209 Jul 17 13:12	7°♋29'14	
	6209 Aug 16 10:20	0°♌	
	6209 Sep 27 02:31	0°♍	
	6209 Nov 10 18:13	0°♎	
	6209 Dec 30 07:38	0°♏	
	6210 Mar 07 21:40	0°♐	
retrograde	6210 Apr 02 22:12	3°♐43'58	
	6210 Apr 27 00:05	30°℞♏	
opposition	6210 May 13 02:59	24°♏08'43	2°08'05
greatest brilliancy	6210 May 13 05:13	24°♏06'30	-1.3m
min. Earth dist.	6210 May 14 03:49	23°♏44'06	0.67963 AU
direct	6210 Jun 23 08:46	14°♏13'27	
desc. node	6210 Jul 16 07:21	17°♏06'08	
	6210 Aug 21 17:26	0°♐	
	6210 Oct 17 00:26	0°♑	
	6210 Dec 02 20:47	0°♒	
	6211 Jan 14 08:31	0°♓	
	6211 Feb 23 04:23	0°♈	
	6211 Apr 02 12:45	0°♉	
evening set	6211 Apr 11 18:42	7°♉19'02	
	6211 May 10 10:28	0°♊	
asc. node	6211 Jun 04 13:01	19°♊41'48	

	6211 Jun 17	20:12	0°♋		
conjunction	6211 Jun 20	17:53	2°♋14'01	0°11'19	
minimum elong	6211 Jun 20	16:46	2°♋11'53	0°11'16	
behind sun begin	6211 Jun 19	19:37	1°♋31'14		
behind sun end	6211 Jun 21	13:55	2°♋52'29		
	6211 Jul 27	13:32	0°♌		
max. Earth dist.	6211 Aug 11	06:21	10°♌46'00	2.43609 AU	
morning rise	6211 Aug 25	14:45	21°♌05'08		
	6211 Sep 07	05:22	0°♍		
	6211 Oct 21	06:10	0°♎		
	6211 Dec 07	02:14	0°♏		
	6212 Jan 27	02:09	0°♐		
	6212 Mar 31	06:48	0°♑		
retrograde	6212 May 08	05:47	7°♑13'18		
desc. node	6212 Jun 02	06:28	3°♑17'50		
	6212 Jun 11	20:23	30°℞♐		
opposition	6212 Jun 16	01:56	28°♐23'15	-0°30'33	
greatest brilliancy	6212 Jun 16	03:55	28°♐21'20	-1.5m	
min. Earth dist.	6212 Jun 20	21:02	26°♐32'02	0.63761 AU	
direct	6212 Jul 27	12:49	18°♐22'06		
	6212 Sep 13	11:56	0°♑		
	6212 Nov 08	04:16	0°♒		
	6212 Dec 22	17:56	0°♓		
	6213 Feb 01	06:01	0°♈		
	6213 Mar 11	21:29	0°♉		
	6213 Apr 19	01:26	0°♊		
asc. node	6213 Apr 21	11:12	1°♊53'04		
	6213 May 27	19:28	0°♋		
evening set	6213 Jun 22	00:56	19°♋00'02		
	6213 Jul 06	23:09	0°♌		
	6213 Aug 18	00:44	0°♍		
conjunction	6213 Aug 20	17:06	1°♍51'48	1°02'28	
minimum elong	6213 Aug 20	15:45	1°♍49'28	1°02'27	
max. Earth dist.	6213 Sep 20	08:27	22°♍45'48	2.56621 AU	
	6213 Oct 01	04:46	0°♎		
morning rise	6213 Oct 12	10:24	7°♎25'02		
	6213 Nov 16	09:03	0°♏		
	6214 Jan 03	12:44	0°♐		
	6214 Feb 23	09:23	0°♑		
desc. node	6214 Apr 20	04:48	28°♑57'10		
	6214 Apr 22	12:59	0°♒		
retrograde	6214 Jun 21	21:46	16°♒06'14		
opposition	6214 Jul 27	18:17	8°♒34'10	-3°50'00	
greatest brilliancy	6214 Jul 28	19:43	8°♒11'09	-1.9m	
min. Earth dist.	6214 Aug 04	18:04	5°♒40'55	0.53402 AU	
	6214 Aug 26	15:56	30°℞♑		
direct	6214 Sep 05	03:03	29°♑22'33		
	6214 Sep 14	18:44	0°♒		
	6214 Nov 24	09:14	0°♓		
	6215 Jan 07	16:14	0°♈		
	6215 Feb 16	21:55	0°♉		
asc. node	6215 Mar 09	10:15	15°♉40'58		
	6215 Mar 28	03:07	0°♊		
	6215 May 06	19:37	0°♋		
	6215 Jun 16	21:17	0°♌		
	6215 Jul 29	18:57	0°♍		
evening set	6215 Aug 15	10:53	11°♍18'13		
	6215 Sep 12	13:30	0°♎		
conjunction	6215 Oct 04	13:34	14°♎21'46	1°03'16	
minimum elong	6215 Oct 04	14:24	14°♎23'07	1°03'16	
max. Earth dist.	6215 Oct 17	07:54	22°♎36'18	2.65025 AU	
	6215 Oct 28	20:26	0°♏		
morning rise	6215 Nov 19	19:01	13°♏58'40		
	6215 Dec 15	03:31	0°♐		
	6216 Feb 01	02:04	0°♑		
desc. node	6216 Mar 07	03:11	21°♑38'35		
	6216 Mar 20	19:59	0°♒		
	6216 May 10	15:35	0°♓		
	6216 Jul 09	00:48	0°♈		
retrograde	6216 Aug 24	11:24	10°♈53'50		
opposition	6216 Sep 24	12:32	5°♈28'08	-6°17'46	
greatest brilliancy	6216 Sep 26	02:07	5°♈00'44	-2.7m	
min. Earth dist.	6216 Oct 01	04:51	3°♈31'50	0.40210 AU	
	6216 Oct 16	17:06	30°℞♓		
direct	6216 Oct 27	13:19	29°♓11'33		
	6216 Nov 07	09:13	0°♈		
	6217 Jan 13	16:59	0°♉		
asc. node	6217 Jan 24	10:48	6°♉51'30		
	6217 Feb 27	16:43	0°♊		
	6217 Apr 11	15:32	0°♋		
	6217 May 25	00:52	0°♌		
	6217 Jul 08	16:13	0°♍		
	6217 Aug 23	16:03	0°♎		
evening set	6217 Sep 25	02:14	20°♎45'38		
	6217 Oct 09	14:45	0°♏		
max. Earth dist.	6217 Nov 08	07:46	18°♏51'39	2.67980 AU	
conjunction	6217 Nov 09	22:16	19°♏52'44	0°36'58	
minimum elong	6217 Nov 09	23:14	19°♏54'17	0°37'00	
	6217 Nov 25	20:29	0°♐		
morning rise	6217 Dec 23	20:21	17°♐51'48		
	6218 Jan 11	17:51	0°♑		
desc. node	6218 Jan 23	01:40	7°♑18'46		
	6218 Feb 26	21:31	0°♒		
	6218 Apr 13	05:26	0°♓		
	6218 May 27	21:00	0°♈		
	6218 Jul 11	09:59	0°♉		
	6218 Aug 26	22:52	0°♊		
	6218 Nov 09	14:30	0°♋		
retrograde	6218 Nov 12	12:57	0°♋03'44		
	6218 Nov 15	11:21	30°℞♊		
min. Earth dist.	6218 Dec 08	21:25	25°♊38'34	0.38898 AU	
asc. node	6218 Dec 12	10:19	24°♊36'10		
opposition	6218 Dec 14	23:02	23°♊51'01	0°10'53	
greatest brilliancy	6218 Dec 14	21:52	23°♊51'53	-2.9m	
direct	6219 Jan 13	23:39	18°♊31'03		
	6219 Feb 28	23:22	0°♋		
	6219 Apr 26	23:02	0°♌		
	6219 Jun 15	20:19	0°♍		
	6219 Aug 03	14:18	0°♎		
	6219 Sep 20	23:54	0°♏		
evening set	6219 Oct 31	19:33	25°♏35'35		
	6219 Nov 07	18:30	0°♐		
max. Earth dist.	6219 Dec 01	07:53	15°♐02'47	2.65449 AU	
desc. node	6219 Dec 11	00:03	21°♐17'26		
conjunction	6219 Dec 15	16:28	24°♐19'41	-0°02'33	
minimum elong	6219 Dec 15	16:24	24°♐19'35	0°02'31	
behind sun begin	6219 Dec 14	21:51	23°♐49'29		
behind sun end	6219 Dec 16	10:57	24°♐49'41		
	6219 Dec 24	09:24	0°♑		
morning rise	6220 Jan 29	10:53	23°♑54'45		
	6220 Feb 07	11:09	0°♒		
	6220 Mar 21	21:01	0°♓		
	6220 May 02	17:31	0°♈		
	6220 Jun 12	08:45	0°♉		
	6220 Jul 22	09:53	0°♊		
	6220 Sep 01	01:25	0°♋		
	6220 Oct 14	20:06	0°♌		
asc. node	6220 Oct 29	08:21	8°♌53'45		
	6220 Dec 14	01:58	0°♍		

retrograde	6221 Jan 05 23:58	3°♍29'29	
	6221 Jan 27 21:41	30°℞♌	
min. Earth dist.	6221 Feb 05 03:08	27°♌12'50	0.51794 AU
opposition	6221 Feb 12 22:44	24°♌16'54	4°42'13
greatest brilliancy	6221 Feb 11 14:48	24°♌47'00	-2.0m
direct	6221 Mar 19 18:05	16°♌41'03	
	6221 May 11 08:06	0°♍	
	6221 Jul 09 23:13	0°♎	
	6221 Aug 30 23:37	0°♏	
	6221 Oct 19 04:52	0°♐	
desc. node	6221 Oct 27 23:02	5°♐29'15	
	6221 Dec 05 03:42	0°♑	
evening set	6221 Dec 06 17:55	1°♑02'39	
max. Earth dist.	6221 Dec 26 04:55	13°♑56'50	2.57624 AU
	6222 Jan 18 19:52	0°♒	
conjunction	6222 Jan 22 19:16	2°♒44'37	-0°44'02
minimum elong	6222 Jan 22 17:57	2°♒42'20	0°43'59
	6222 Mar 02 08:02	0°♓	
morning rise	6222 Mar 13 21:03	8°♓23'44	
	6222 Apr 11 23:38	0°♈	
	6222 May 21 07:14	0°♉	
	6222 Jun 28 23:31	0°♊	
	6222 Aug 06 21:41	0°♋	
asc. node	6222 Sep 16 07:54	0°♌04'50	
	6222 Sep 16 05:14	0°♌	
	6222 Oct 29 15:54	0°♍	
	6222 Dec 20 05:11	0°♎	
retrograde	6223 Feb 14 23:42	16°♎24'30	
min. Earth dist.	6223 Mar 22 16:38	8°♎09'32	0.62863 AU
greatest brilliancy	6223 Mar 26 07:42	6°♎42'48	-1.5m
opposition	6223 Mar 27 00:12	6°♎26'21	4°35'12
	6223 Apr 14 16:19	30°℞♍	
direct	6223 May 04 11:29	27°♍26'33	
	6223 May 25 23:42	0°♎	
	6223 Aug 06 22:26	0°♏	
desc. node	6223 Sep 14 22:17	21°♏38'00	
	6223 Sep 29 02:56	0°♐	
	6223 Nov 16 07:44	0°♑	
	6223 Dec 31 03:36	0°♒	
evening set	6224 Jan 18 07:24	12°♒43'18	
max. Earth dist.	6224 Feb 01 09:44	22°♒49'20	2.45362 AU
	6224 Feb 11 06:27	0°♓	
conjunction	6224 Mar 12 17:25	22°♓42'41	-1°05'47
minimum elong	6224 Mar 12 17:36	22°♓43'01	1°05'47
	6224 Mar 22 07:04	0°♈	
	6224 Apr 29 23:05	0°♉	
morning rise	6224 May 15 18:15	12°♉25'12	
	6224 Jun 07 02:01	0°♊	
	6224 Jul 15 12:42	0°♋	
asc. node	6224 Aug 03 06:30	14°♋19'49	
	6224 Aug 24 04:43	0°♌	
	6224 Oct 05 00:36	0°♍	
	6224 Nov 19 07:27	0°♎	
	6225 Jan 10 15:39	0°♏	
retrograde	6225 Mar 20 15:33	21°♏09'38	
opposition	6225 Apr 30 00:53	11°♏22'38	2°58'23
greatest brilliancy	6225 Apr 29 23:58	11°♏23'33	-1.3m
min. Earth dist.	6225 Apr 29 13:35	11°♏33'54	0.67823 AU
direct	6225 Jun 09 18:27	1°♏37'41	
desc. node	6225 Aug 01 21:47	14°♏32'40	
	6225 Sep 03 14:12	0°♐	
	6225 Oct 25 18:23	0°♑	
	6225 Dec 10 16:21	0°♒	
	6226 Jan 21 22:18	0°♓	
	6226 Mar 02 17:28	0°♈	
evening set	6226 Mar 15 01:49	9°♈34'08	
	6226 Apr 10 02:17	0°♉	
	6226 May 17 23:55	0°♊	
conjunction	6226 May 22 01:39	3°♊12'54	-0°21'02
minimum elong	6226 May 22 03:49	3°♊17'11	0°21'02
asc. node	6226 Jun 21 04:23	26°♊46'45	
	6226 Jun 25 08:20	0°♋	
max. Earth dist.	6226 Jul 08 05:06	9°♋52'24	2.38343 AU
morning rise	6226 Aug 01 02:49	27°♋52'47	
	6226 Aug 03 23:26	0°♌	
	6226 Sep 14 13:35	0°♍	
	6226 Oct 28 16:31	0°♎	
	6226 Dec 15 03:32	0°♏	
	6227 Feb 06 18:04	0°♐	
retrograde	6227 Apr 24 13:02	24°♐05'29	
opposition	6227 Jun 03 01:46	14°♐54'49	0°35'44
greatest brilliancy	6227 Jun 03 03:46	14°♐52'51	-1.4m
min. Earth dist.	6227 Jun 06 09:46	13°♐36'31	0.66198 AU
desc. node	6227 Jun 19 20:38	8°♐47'10	
direct	6227 Jul 14 15:35	4°♐51'45	
	6227 Sep 29 17:06	0°♑	
	6227 Nov 18 21:30	0°♒	
	6228 Jan 01 07:40	0°♓	
	6228 Feb 10 10:30	0°♈	
	6228 Mar 19 21:25	0°♉	
	6228 Apr 26 21:26	0°♊	
asc. node	6228 May 08 04:32	8°♊52'04	
evening set	6228 May 26 08:54	23°♊00'46	
	6228 Jun 04 10:39	0°♋	
	6228 Jul 14 08:40	0°♌	
conjunction	6228 Jul 30 06:03	11°♌34'22	0°49'51
minimum elong	6228 Jul 30 03:39	11°♌30'03	0°49'48
	6228 Aug 25 04:49	0°♍	
max. Earth dist.	6228 Sep 07 12:31	9°♍14'22	2.51950 AU
morning rise	6228 Sep 25 06:50	21°♍20'12	
	6228 Oct 08 05:31	0°♎	
	6228 Nov 23 12:34	0°♏	
	6229 Jan 11 09:11	0°♐	
	6229 Mar 05 17:07	0°♑	
desc. node	6229 May 06 19:00	26°♑08'32	
	6229 May 30 15:52	0°♒	
retrograde	6229 Jun 02 23:34	0°♒03'56	
	6229 Jun 06 06:14	30°℞♑	
opposition	6229 Jul 10 05:37	21°♑55'59	-2°28'35
greatest brilliancy	6229 Jul 10 19:38	21°♑42'52	-1.7m
min. Earth dist.	6229 Jul 17 02:55	19°♑21'10	0.58127 AU
direct	6229 Aug 19 18:49	12°♑14'33	
	6229 Oct 18 02:10	0°♒	
	6229 Dec 06 20:04	0°♓	
	6230 Jan 17 19:55	0°♈	
	6230 Feb 26 03:46	0°♉	
asc. node	6230 Mar 26 04:12	21°♉45'45	
	6230 Apr 05 19:09	0°♊	
	6230 May 14 23:47	0°♋	
	6230 Jun 24 14:12	0°♌	
evening set	6230 Jul 27 07:16	23°♌13'21	
	6230 Aug 06 01:49	0°♍	
conjunction	6230 Sep 18 10:18	29°♍16'21	1°07'14
minimum elong	6230 Sep 18 10:33	29°♍16'46	1°07'15
	6230 Sep 19 12:42	0°♎	
max. Earth dist.	6230 Oct 07 13:17	11°♎49'57	2.62354 AU
	6230 Nov 04 16:37	0°♏	
morning rise	6230 Nov 05 14:12	0°♏34'33	
	6230 Dec 22 04:27	0°♐	

	6231 Feb 08 21:40	0°♉	
desc. node	6231 Mar 24 17:17	26°♉00'12	
	6231 Mar 31 16:26	0°♒	
	6231 May 27 23:11	0°♓	
retrograde	6231 Jul 27 20:47	16°♓46'14	
opposition	6231 Aug 30 00:22	10°♓27'23	-5°49'01
greatest brilliancy	6231 Aug 31 17:31	9°♓53'48	-2.4m
min. Earth dist.	6231 Sep 07 10:59	7°♓43'27	0.45119 AU
direct	6231 Oct 05 01:52	2°♓46'16	
	6231 Dec 16 12:41	0°♈	
	6232 Jan 30 03:43	0°♉	
asc. node	6232 Feb 11 02:49	8°♉35'32	
	6232 Mar 11 10:13	0°♊	
	6232 Apr 21 12:08	0°♋	
	6232 Jun 02 15:54	0°♌	
	6232 Jul 16 10:23	0°♍	
	6232 Aug 30 19:49	0°♎	
evening set	6232 Sep 09 19:03	6°♎28'09	
	6232 Oct 16 10:20	0°♏	
conjunction	6232 Oct 26 20:13	6°♏38'10	0°49'18
minimum elong	6232 Oct 26 21:19	6°♏39'55	0°49'19
max. Earth dist.	6232 Oct 30 16:44	9°♏05'21	2.67464 AU
	6232 Dec 02 14:45	0°♐	
morning rise	6232 Dec 10 06:57	4°♐52'26	
	6233 Jan 18 19:03	0°♑	
desc. node	6233 Feb 08 15:57	13°♑19'37	
	6233 Mar 06 16:37	0°♒	
	6233 Apr 22 09:45	0°♓	
	6233 Jun 08 11:56	0°♈	
	6233 Jul 28 01:57	0°♉	
retrograde	6233 Oct 14 04:18	28°♉22'15	
min. Earth dist.	6233 Nov 12 02:26	23°♉37'07	0.36816 AU
opposition	6233 Nov 13 07:32	23°♉17'49	-3°21'13
greatest brilliancy	6233 Nov 13 08:01	23°♉17'30	-3.0m
direct	6233 Dec 12 15:18	18°♉25'18	
asc. node	6233 Dec 29 02:30	20°♉10'00	
	6234 Jan 26 21:38	0°♊	
	6234 Mar 22 09:35	0°♋	
	6234 May 09 01:08	0°♌	
	6234 Jun 24 23:52	0°♍	
	6234 Aug 11 08:15	0°♎	
	6234 Sep 28 00:53	0°♏	
evening set	6234 Oct 17 18:09	12°♏24'58	
	6234 Nov 14 12:42	0°♐	
max. Earth dist.	6234 Nov 22 03:43	4°♐51'31	2.67081 AU
conjunction	6234 Dec 01 15:59	10°♐56'20	0°13'43
minimum elong	6234 Dec 01 16:24	10°♐56'59	0°13'44
behind sun begin	6234 Dec 01 06:47	10°♐41'35	
behind sun end	6234 Dec 02 02:02	11°♐12'24	
desc. node	6234 Dec 27 14:56	27°♐40'51	
	6234 Dec 31 04:31	0°♑	
morning rise	6235 Jan 14 16:56	9°♑29'37	
	6235 Feb 14 14:13	0°♒	
	6235 Mar 30 14:10	0°♓	
	6235 May 12 05:50	0°♈	
	6235 Jun 22 20:14	0°♉	
	6235 Aug 03 02:30	0°♊	
	6235 Sep 14 18:32	0°♋	
	6235 Nov 04 04:42	0°♌	
asc. node	6235 Nov 16 02:12	5°♌12'13	
retrograde	6235 Dec 19 01:39	12°♌16'04	
min. Earth dist.	6236 Jan 15 21:31	6°♌54'08	0.46357 AU
greatest brilliancy	6236 Jan 23 03:21	4°♌21'43	-2.4m
opposition	6236 Jan 24 08:49	3°♌55'42	3°48'17
	6236 Feb 05 15:35	30°℞♋	
direct	6236 Feb 26 06:46	27°♋09'17	
	6236 Mar 19 02:21	0°♌	
	6236 May 27 14:33	0°♍	
	6236 Jul 19 13:37	0°♎	
	6236 Sep 07 17:22	0°♏	
	6236 Oct 26 05:45	0°♐	
desc. node	6236 Nov 13 13:47	11°♐37'13	
evening set	6236 Nov 22 00:28	17°♐01'54	
	6236 Dec 11 23:59	0°♑	
max. Earth dist.	6236 Dec 15 12:48	2°♑19'06	2.61293 AU
conjunction	6237 Jan 06 18:47	17°♑06'17	-0°28'36
minimum elong	6237 Jan 06 17:52	17°♑04'45	0°28'34
	6237 Jan 25 18:50	0°♒	
morning rise	6237 Feb 23 01:10	19°♒39'42	
	6237 Mar 09 14:00	0°♓	
	6237 Apr 19 14:55	0°♈	
	6237 May 29 08:07	0°♉	
	6237 Jul 07 09:32	0°♊	
	6237 Aug 15 17:23	0°♋	
	6237 Sep 25 16:49	0°♌	
asc. node	6237 Oct 02 23:46	5°♌06'15	
	6237 Nov 10 00:35	0°♍	
	6238 Jan 17 01:20	0°♎	
retrograde	6238 Jan 31 10:52	1°♎21'40	
	6238 Feb 14 04:56	30°℞♍	
min. Earth dist.	6238 Mar 06 03:25	23°♍47'49	0.59190 AU
opposition	6238 Mar 11 22:21	21°♍30'58	4°54'01
greatest brilliancy	6238 Mar 10 22:29	21°♍54'32	-1.7m
direct	6238 Apr 18 03:00	12°♍58'07	
	6238 Jun 19 09:18	0°♎	
	6238 Aug 16 18:59	0°♏	
desc. node	6238 Oct 01 12:37	26°♏43'28	
	6238 Oct 06 21:55	0°♐	
	6238 Nov 23 11:53	0°♑	
evening set	6238 Dec 31 13:57	25°♑25'58	
	6239 Jan 07 05:14	0°♒	
max. Earth dist.	6239 Jan 15 06:15	5°♒35'12	2.50575 AU
	6239 Feb 18 11:00	0°♓	
conjunction	6239 Feb 20 05:37	1°♓17'46	-1°02'12
minimum elong	6239 Feb 20 04:31	1°♓15'45	1°02'11
	6239 Mar 30 16:40	0°♈	
morning rise	6239 Apr 18 14:02	14°♈28'49	
	6239 May 08 13:39	0°♉	
	6239 Jun 15 20:27	0°♊	
	6239 Jul 24 09:46	0°♋	
asc. node	6239 Aug 20 23:18	20°♋55'45	
	6239 Sep 02 04:32	0°♌	
	6239 Oct 14 08:09	0°♍	
	6239 Nov 29 18:48	0°♎	
	6240 Jan 27 21:03	0°♏	
retrograde	6240 Mar 07 10:33	8°♏21'02	
	6240 Apr 12 21:34	30°℞♎	
min. Earth dist.	6240 Apr 14 20:24	29°♎13'25	0.66662 AU
opposition	6240 Apr 16 19:54	28°♎25'55	3°42'16
greatest brilliancy	6240 Apr 16 13:56	28°♎31'54	-1.3m
direct	6240 May 26 19:59	18°♎55'21	
	6240 Jul 14 13:13	0°♏	
desc. node	6240 Aug 18 11:47	15°♏55'49	
	6240 Sep 13 17:32	0°♐	
	6240 Nov 02 18:51	0°♑	
	6240 Dec 18 03:33	0°♒	
	6241 Jan 29 07:17	0°♓	
evening set	6241 Feb 18 12:04	15°♓01'39	
	6241 Mar 10 04:03	0°♈	
max. Earth dist.	6241 Mar 22 04:22	9°♈17'11	2.37745 AU

	6241 Apr 17 15:05	0°♉	
conjunction	6241 Apr 22 03:50	3°♉34'27	-0°48'39
minimum elong	6241 Apr 22 07:03	3°♉40'48	0°48'39
	6241 May 25 14:02	0°♊	
	6241 Jul 02 22:18	0°♋	
morning rise	6241 Jul 03 08:16	0°♋19'16	
asc. node	6241 Jul 07 22:54	3°♋52'31	
	6241 Aug 11 12:07	0°♌	
	6241 Sep 22 01:56	0°♍	
	6241 Nov 05 10:04	0°♎	
	6241 Dec 23 22:03	0°♏	
	6242 Feb 20 23:19	0°♐	
retrograde	6242 Apr 10 16:00	11°♐24'58	
opposition	6242 May 20 16:09	1°♐57'24	1°35'44
greatest brilliancy	6242 May 20 19:03	1°♐54'32	-1.3m
min. Earth dist.	6242 May 22 12:29	1°♐13'36	0.67614 AU
	6242 May 25 15:31	30°℞♏	
direct	6242 Jul 01 02:14	21°♏58'01	
desc. node	6242 Jul 06 10:58	22°♏08'26	
	6242 Aug 10 02:36	0°♐	
	6242 Oct 10 17:58	0°♑	
	6242 Nov 27 12:57	0°♒	
	6243 Jan 09 07:54	0°♓	
	6243 Feb 18 06:08	0°♈	
	6243 Mar 28 15:12	0°♉	
evening set	6243 Apr 28 06:26	24°♉14'31	
	6243 May 05 13:27	0°♊	
asc. node	6243 May 25 21:05	15°♊57'12	
	6243 Jun 12 23:54	0°♋	
conjunction	6243 Jul 06 08:09	17°♋46'04	0°27'50
minimum elong	6243 Jul 06 05:52	17°♋41'46	0°27'46
	6243 Jul 22 18:03	0°♌	
max. Earth dist.	6243 Aug 23 03:53	22°♌45'06	2.46681 AU
	6243 Sep 02 10:23	0°♍	
morning rise	6243 Sep 06 20:40	3°♍05'50	
	6243 Oct 16 09:33	0°♎	
	6243 Dec 01 22:34	0°♏	
	6244 Jan 20 21:38	0°♐	
	6244 Mar 18 23:22	0°♑	
retrograde	6244 May 17 03:35	15°♑31'55	
desc. node	6244 May 23 09:11	15°♑17'36	
opposition	6244 Jun 24 11:46	6°♑55'11	-1°12'10
greatest brilliancy	6244 Jun 24 17:11	6°♑49'59	-1.6m
min. Earth dist.	6244 Jun 30 01:06	4°♑47'22	0.62020 AU
	6244 Jul 14 05:31	30°℞♐	
direct	6244 Aug 04 17:21	26°♐58'05	
	6244 Aug 27 11:28	0°♑	
	6244 Nov 01 03:24	0°♒	
	6244 Dec 16 22:50	0°♓	
	6245 Jan 26 20:58	0°♈	
	6245 Mar 06 16:55	0°♉	
asc. node	6245 Apr 11 20:05	28°♉18'55	
	6245 Apr 13 23:50	0°♊	
	6245 May 22 20:28	0°♋	
	6245 Jul 02 02:38	0°♌	
evening set	6245 Jul 05 15:20	2°♌34'01	
	6245 Aug 13 06:39	0°♍	
conjunction	6245 Aug 31 16:44	12°♍39'56	1°06'05
minimum elong	6245 Aug 31 16:02	12°♍38'45	1°06'04
	6245 Sep 26 11:53	0°♎	
max. Earth dist.	6245 Sep 26 23:31	0°♎19'16	2.58887 AU
morning rise	6245 Oct 21 12:43	16°♎25'34	
	6245 Nov 11 14:52	0°♏	
	6245 Dec 29 10:50	0°♐	
	6246 Feb 17 07:44	0°♑	
desc. node	6246 Apr 10 07:55	28°♑48'43	
	6246 Apr 12 15:46	0°♒	
retrograde	6246 Jul 03 21:25	26°♒40'56	
opposition	6246 Aug 07 20:30	19°♒32'17	-4°36'50
greatest brilliancy	6246 Aug 09 04:38	19°♒03'57	-2.1m
min. Earth dist.	6246 Aug 16 05:39	16°♒35'53	0.50531 AU
direct	6246 Sep 15 05:59	10°♒46'01	
	6246 Nov 14 03:27	0°♓	
	6246 Dec 31 11:36	0°♈	
	6247 Feb 10 16:12	0°♉	
asc. node	6247 Feb 27 20:12	12°♉55'32	
	6247 Mar 22 09:37	0°♊	
	6247 May 01 10:50	0°♋	
	6247 Jun 11 19:14	0°♌	
	6247 Jul 24 22:27	0°♍	
evening set	6247 Aug 25 09:50	21°♍07'43	
	6247 Sep 07 20:48	0°♎	
conjunction	6247 Oct 13 05:42	22°♎57'04	0°59'03
minimum elong	6247 Oct 13 06:44	22°♎58'42	0°59'05
max. Earth dist.	6247 Oct 22 17:17	29°♎02'01	2.66128 AU
	6247 Oct 24 05:31	0°♏	
morning rise	6247 Nov 27 16:21	21°♏55'22	
	6247 Dec 10 10:46	0°♐	
	6248 Jan 27 01:24	0°♑	
desc. node	6248 Feb 26 06:59	18°♑57'16	
	6248 Mar 15 00:03	0°♒	
	6248 May 02 21:06	0°♓	
	6248 Jun 24 01:11	0°♈	
retrograde	6248 Sep 11 09:47	27°♈11'58	
opposition	6248 Oct 11 15:14	22°♈08'28	-5°50'56
greatest brilliancy	6248 Oct 12 17:10	21°♈50'35	-2.9m
min. Earth dist.	6248 Oct 16 00:43	20°♈55'55	0.38173 AU
direct	6248 Nov 11 23:05	16°♈36'19	
	6248 Dec 29 18:32	0°♉	
asc. node	6249 Jan 14 18:37	8°♉27'52	
	6249 Feb 18 19:56	0°♊	
	6249 Apr 04 17:42	0°♋	
	6249 May 19 03:35	0°♌	
	6249 Jul 03 10:01	0°♍	
	6249 Aug 18 19:04	0°♎	
evening set	6249 Oct 03 11:00	29°♎02'54	
	6249 Oct 04 23:03	0°♏	
max. Earth dist.	6249 Nov 13 09:38	25°♏00'01	2.67902 AU
conjunction	6249 Nov 17 19:58	27°♏48'55	0°28'50
minimum elong	6249 Nov 17 20:46	27°♏50'12	0°28'52
	6249 Nov 21 06:25	0°♐	
morning rise	6249 Dec 31 15:44	25°♐51'40	
	6250 Jan 07 01:29	0°♑	
desc. node	6250 Jan 13 05:19	3°♑59'22	
	6250 Feb 21 22:18	0°♒	
	6250 Apr 07 17:15	0°♓	
	6250 May 21 12:18	0°♈	
	6250 Jul 03 15:50	0°♉	
	6250 Aug 16 07:42	0°♊	
	6250 Oct 04 00:33	0°♋	
retrograde	6250 Nov 26 22:10	16°♋55'00	
asc. node	6250 Dec 02 17:55	16°♋40'12	
min. Earth dist.	6250 Dec 23 05:51	12°♋18'29	0.41175 AU
opposition	6250 Dec 30 21:41	9°♋52'50	1°52'14
greatest brilliancy	6250 Dec 30 07:08	10°♋04'25	-2.7m
direct	6251 Jan 30 18:26	4°♋03'24	
	6251 Apr 17 09:00	0°♌	
	6251 Jun 09 07:14	0°♍	
	6251 Jul 29 04:16	0°♎	

	6251 Sep 16 02:39	0°♏	
	6251 Nov 03 02:57	0°♐	
evening set	6251 Nov 08 20:12	3°♐37'31	
desc. node	6251 Dec 01 03:46	17°♐54'02	
max. Earth dist.	6251 Dec 06 18:41	21°♐31'58	2.64200 AU
	6251 Dec 19 18:54	0°♑	
conjunction	6251 Dec 23 21:04	2°♑40'47	-0°12'11
minimum elong	6251 Dec 23 20:41	2°♑40'09	0°12'09
behind sun begin	6251 Dec 23 08:05	2°♑19'30	
behind sun end	6251 Dec 24 09:17	3°♑00'48	
	6252 Feb 02 18:24	0°♒	
morning rise	6252 Feb 07 07:17	3°♒05'42	
	6252 Mar 16 23:00	0°♓	
	6252 Apr 27 12:22	0°♈	
	6252 Jun 06 18:54	0°♉	
	6252 Jul 16 09:54	0°♊	
	6252 Aug 25 10:10	0°♋	
	6252 Oct 06 16:54	0°♌	
asc. node	6252 Oct 19 18:04	8°♌35'09	
	6252 Nov 25 21:18	0°♍	
retrograde	6253 Jan 15 17:25	14°♍34'05	
min. Earth dist.	6253 Feb 16 03:58	7°♍48'14	0.54603 AU
greatest brilliancy	6253 Feb 22 01:46	5°♍32'09	-1.9m
opposition	6253 Feb 23 07:54	5°♍03'06	4°54'43
	6253 Mar 10 02:35	30°℞♌	
direct	6253 Mar 31 00:31	27°♌04'36	
	6253 Apr 22 15:41	0°♍	
	6253 Jul 02 19:41	0°♎	
	6253 Aug 25 11:52	0°♏	
	6253 Oct 14 07:23	0°♐	
desc. node	6253 Oct 18 02:31	2°♐21'24	
	6253 Nov 30 11:25	0°♑	
evening set	6253 Dec 15 11:19	9°♑53'00	
max. Earth dist.	6254 Jan 01 23:39	21°♑39'17	2.55284 AU
	6254 Jan 14 04:21	0°♒	
conjunction	6254 Feb 01 13:12	12°♒48'18	-0°51'53
minimum elong	6254 Feb 01 11:48	12°♒45'50	0°51'50
	6254 Feb 25 14:26	0°♓	
morning rise	6254 Mar 25 17:57	20°♓42'58	
	6254 Apr 07 02:42	0°♈	
	6254 May 16 06:25	0°♉	
	6254 Jun 23 19:00	0°♊	
	6254 Aug 01 13:16	0°♋	
asc. node	6254 Sep 06 16:44	27°♋08'49	
	6254 Sep 10 14:16	0°♌	
	6254 Oct 23 08:57	0°♍	
	6254 Dec 11 03:07	0°♎	
retrograde	6255 Feb 22 22:39	24°♎56'19	
min. Earth dist.	6255 Mar 31 15:50	16°♎21'21	0.64476 AU
opposition	6255 Apr 04 03:32	14°♎57'40	4°18'37
greatest brilliancy	6255 Apr 03 15:03	15°♎10'10	-1.4m
direct	6255 May 13 05:08	5°♎45'47	
	6255 Jul 30 09:44	0°♏	
desc. node	6255 Sep 05 01:29	19°♏22'27	
	6255 Sep 23 14:05	0°♐	
	6255 Nov 11 09:01	0°♑	
	6255 Dec 26 09:44	0°♒	
evening set	6256 Jan 29 04:59	23°♒55'08	
	6256 Feb 06 13:15	0°♓	
max. Earth dist.	6256 Feb 14 04:04	5°♓36'28	2.42445 AU
	6256 Mar 17 12:49	0°♈	
conjunction	6256 Mar 26 06:14	6°♈42'48	-1°03'19
minimum elong	6256 Mar 26 07:35	6°♈45'25	1°03'20
	6256 Apr 25 02:56	0°♉	
morning rise	6256 Jun 02 01:33	29°♉55'04	
	6256 Jun 02 04:03	0°♊	
	6256 Jul 10 13:14	0°♋	
asc. node	6256 Jul 24 14:39	10°♋47'41	
	6256 Aug 19 03:20	0°♌	
	6256 Sep 29 19:16	0°♍	
	6256 Nov 13 14:11	0°♎	
	6257 Jan 02 22:43	0°♏	
retrograde	6257 Mar 28 06:31	28°♏52'59	
opposition	6257 May 07 13:18	19°♏12'00	2°29'40
greatest brilliancy	6257 May 07 14:22	19°♏10'56	-1.3m
min. Earth dist.	6257 May 07 21:44	19°♏03'37	0.68023 AU
direct	6257 Jun 17 13:47	9°♏20'58	
desc. node	6257 Jul 23 00:55	15°♏43'49	
	6257 Aug 26 16:43	0°♐	
	6257 Oct 20 01:49	0°♑	
	6257 Dec 05 13:59	0°♒	
	6258 Jan 17 00:38	0°♓	
	6258 Feb 25 21:18	0°♈	
evening set	6258 Mar 30 07:21	25°♈17'59	
	6258 Apr 05 06:17	0°♉	
	6258 May 13 03:48	0°♊	
conjunction	6258 Jun 07 22:55	20°♊15'35	-0°02'36
minimum elong	6258 Jun 07 23:12	20°♊16'08	0°02'39
behind sun begin	6258 Jun 06 17:31	19°♊18'18	
behind sun end	6258 Jun 09 04:53	21°♊13'55	
asc. node	6258 Jun 11 14:08	23°♊05'17	
	6258 Jun 20 12:17	0°♋	
	6258 Jul 30 03:21	0°♌	
max. Earth dist.	6258 Jul 30 12:01	0°♌16'04	2.41138 AU
morning rise	6258 Aug 15 10:10	11°♌56'30	
	6258 Sep 09 16:53	0°♍	
	6258 Oct 23 16:38	0°♎	
	6258 Dec 09 16:26	0°♏	
	6259 Jan 30 11:24	0°♐	
	6259 Apr 13 18:31	0°♑	
retrograde	6259 May 02 20:27	2°♑01'28	
	6259 May 20 17:30	30°℞♐	
desc. node	6259 Jun 10 00:11	23°♐24'55	
opposition	6259 Jun 11 00:07	23°♐01'41	-0°02'10
greatest brilliancy	6259 Jun 11 00:19	23°♐01'30	-1.4m
min. Earth dist.	6259 Jun 15 03:14	21°♐25'13	0.64965 AU
direct	6259 Jul 22 12:36	12°♐58'53	
	6259 Sep 20 20:57	0°♑	
	6259 Nov 12 19:09	0°♒	
	6259 Dec 26 21:18	0°♓	
	6260 Feb 05 06:11	0°♈	
	6260 Mar 14 19:54	0°♉	
	6260 Apr 21 21:53	0°♊	
asc. node	6260 Apr 28 12:56	5°♊11'44	
	6260 May 30 13:08	0°♋	
evening set	6260 Jun 10 19:01	8°♋33'40	
	6260 Jul 09 13:06	0°♌	
conjunction	6260 Aug 11 18:13	23°♌53'53	0°58'08
minimum elong	6260 Aug 11 16:22	23°♌50'38	0°58'06
	6260 Aug 20 10:54	0°♍	
max. Earth dist.	6260 Sep 15 05:14	17°♍43'38	2.54615 AU
	6260 Oct 03 11:54	0°♎	
morning rise	6260 Oct 05 05:59	1°♎09'54	
	6260 Nov 18 15:54	0°♏	
	6261 Jan 06 00:45	0°♐	
	6261 Feb 26 17:12	0°♑	
desc. node	6261 Apr 26 22:31	28°♑45'06	
	6261 Apr 30 05:10	0°♒	
retrograde	6261 Jun 13 09:48	9°♒25'30	

opposition	6261 Jul 19 21:55	1°♒36'10	-3°14'56
greatest brilliancy	6261 Jul 20 18:08	1°♒17'32	-1.8m
	6261 Jul 24 05:54	30°℞♑	
min. Earth dist.	6261 Jul 27 10:33	28°♑49'53	0.55609 AU
direct	6261 Aug 28 20:38	22°♑08'55	
	6261 Oct 04 17:08	0°♒	
	6261 Nov 29 12:33	0°♓	
	6262 Jan 11 16:04	0°♈	
	6262 Feb 20 11:03	0°♉	
asc. node	6262 Mar 16 11:39	18°♉31'00	
	6262 Mar 31 09:04	0°♊	
	6262 May 09 19:10	0°♋	
	6262 Jun 19 14:21	0°♌	
	6262 Aug 01 06:13	0°♍	
evening set	6262 Aug 07 11:11	4°♍15'10	
	6262 Sep 14 20:05	0°♎	
conjunction	6262 Sep 27 19:14	8°♎30'44	1°05'27
minimum elong	6262 Sep 27 19:52	8°♎31'46	1°05'28
max. Earth dist.	6262 Oct 13 05:56	18°♎33'18	2.63946 AU
	6262 Oct 31 00:47	0°♏	
morning rise	6262 Nov 13 19:04	8°♏47'04	
	6262 Dec 17 09:04	0°♐	
	6263 Feb 03 14:40	0°♑	
desc. node	6263 Mar 14 21:01	23°♑53'39	
	6263 Mar 25 02:43	0°♒	
	6263 May 16 23:22	0°♓	
	6263 Aug 06 07:46	0°♈	
retrograde	6263 Aug 12 07:52	0°♈13'04	
	6263 Aug 18 06:09	30°℞♓	
opposition	6263 Sep 13 07:15	24°♓24'11	-6°13'42
greatest brilliancy	6263 Sep 15 01:01	23°♓52'05	-2.6m
min. Earth dist.	6263 Sep 21 02:44	22°♓01'05	0.42276 AU
direct	6263 Oct 17 18:44	17°♓28'23	
	6263 Dec 02 11:18	0°♈	
	6264 Jan 21 14:53	0°♉	
asc. node	6264 Feb 01 12:01	7°♉25'36	
	6264 Mar 04 12:07	0°♊	
	6264 Apr 15 10:46	0°♋	
	6264 May 28 04:14	0°♌	
	6264 Jul 11 08:25	0°♍	
	6264 Aug 26 00:31	0°♎	
evening set	6264 Sep 18 15:47	15°♎13'29	
	6264 Oct 11 18:56	0°♏	
conjunction	6264 Nov 03 23:00	14°♏43'59	0°42'21
minimum elong	6264 Nov 04 00:03	14°♏45'39	0°42'23
max. Earth dist.	6264 Nov 04 20:01	15°♏17'21	2.67863 AU
	6264 Nov 27 23:47	0°♐	
morning rise	6264 Dec 18 00:58	12°♐45'37	
	6265 Jan 14 00:12	0°♑	
desc. node	6265 Jan 29 19:47	10°♑09'50	
	6265 Mar 01 11:39	0°♒	
	6265 Apr 16 09:02	0°♓	
	6265 May 31 22:52	0°♈	
	6265 Jul 17 02:41	0°♉	
	6265 Sep 06 00:02	0°♊	
retrograde	6265 Oct 31 06:57	16°♊52'18	
min. Earth dist.	6265 Nov 27 08:10	12°♊26'03	0.37571 AU
opposition	6265 Dec 01 12:05	11°♊16'19	-1°19'53
greatest brilliancy	6265 Dec 01 08:37	11°♊18'45	-3.0m
asc. node	6265 Dec 19 11:58	7°♊07'03	
direct	6265 Dec 31 00:39	6°♊14'53	
	6266 Mar 11 10:17	0°♋	
	6266 May 01 19:19	0°♌	
	6266 Jun 19 03:42	0°♍	
	6266 Aug 06 04:50	0°♎	
	6266 Sep 23 06:22	0°♏	
evening set	6266 Oct 25 19:38	20°♏26'34	
	6266 Nov 09 22:02	0°♐	
max. Earth dist.	6266 Nov 27 09:55	11°♐09'23	2.66289 AU
conjunction	6266 Dec 09 15:33	19°♐01'10	0°04'22
minimum elong	6266 Dec 09 15:41	19°♐01'24	0°04'24
behind sun begin	6266 Dec 08 21:37	18°♐32'17	
behind sun end	6266 Dec 10 09:46	19°♐30'32	
desc. node	6266 Dec 17 17:53	24°♐15'21	
	6266 Dec 26 13:52	0°♑	
morning rise	6267 Jan 23 00:08	18°♑03'44	
	6267 Feb 09 19:54	0°♒	
	6267 Mar 25 12:26	0°♓	
	6267 May 06 17:38	0°♈	
	6267 Jun 16 18:29	0°♉	
	6267 Jul 27 06:35	0°♊	
	6267 Sep 06 13:51	0°♋	
	6267 Oct 22 00:57	0°♌	
asc. node	6267 Nov 06 10:13	8°♌39'17	
retrograde	6267 Dec 30 03:47	25°♌11'21	
min. Earth dist.	6268 Jan 28 05:34	19°♌18'47	0.49391 AU
greatest brilliancy	6268 Feb 04 02:11	16°♌48'18	-2.2m
opposition	6268 Feb 05 10:17	16°♌18'44	4°25'41
direct	6268 Mar 10 10:01	9°♌03'35	
	6268 May 18 07:24	0°♍	
	6268 Jul 13 09:35	0°♎	
	6268 Sep 02 13:06	0°♏	
	6268 Oct 21 11:11	0°♐	
desc. node	6268 Nov 03 16:42	8°♐19'46	
evening set	6268 Nov 30 08:29	25°♐25'33	
	6268 Dec 07 08:50	0°♑	
max. Earth dist.	6268 Dec 21 15:27	9°♑24'33	2.59367 AU
conjunction	6269 Jan 15 17:59	26°♑18'35	-0°37'46
minimum elong	6269 Jan 15 16:49	26°♑16'35	0°37'44
	6269 Jan 21 03:24	0°♒	
	6269 Mar 04 19:40	0°♓	
morning rise	6269 Mar 05 09:56	0°♓25'41	
	6269 Apr 14 16:15	0°♈	
	6269 May 24 04:28	0°♉	
	6269 Jul 02 00:30	0°♊	
	6269 Aug 10 01:59	0°♋	
	6269 Sep 19 13:55	0°♌	
asc. node	6269 Sep 23 09:22	2°♌43'41	
	6269 Nov 02 13:21	0°♍	
	6269 Dec 27 03:56	0°♎	
retrograde	6270 Feb 08 21:09	10°♎35'59	
min. Earth dist.	6270 Mar 15 16:59	2°♎38'43	0.61331 AU
opposition	6270 Mar 20 16:39	0°♎39'51	4°45'08
greatest brilliancy	6270 Mar 19 20:48	0°♎59'36	-1.6m
	6270 Mar 22 08:57	30°℞♍	
direct	6270 Apr 27 14:46	21°♍51'28	
	6270 Jun 07 02:44	0°♎	
	6270 Aug 10 10:29	0°♏	
desc. node	6270 Sep 21 16:11	24°♏00'23	
	6270 Oct 01 16:57	0°♐	
	6270 Nov 18 16:18	0°♑	
	6271 Jan 02 12:28	0°♒	
evening set	6271 Jan 10 10:34	5°♒30'01	
max. Earth dist.	6271 Jan 24 12:13	15°♒24'57	2.47728 AU
	6271 Feb 13 17:42	0°♓	
conjunction	6271 Mar 04 00:22	13°♓29'25	-1°05'21
minimum elong	6271 Mar 03 23:51	13°♓28'29	1°05'20
	6271 Mar 25 21:33	0°♈	
morning rise	6271 May 03 22:22	0°♉11'56	

	6271 May 03 16:16	0°♉	
	6271 Jun 10 20:53	0°♊	
greatest brilliancy	6271 Jun 16 20:50	4°♊42'29	1.2m
	6271 Jul 19 08:16	0°♋	
asc. node	6271 Aug 11 08:32	17°♋33'37	
	6271 Aug 28 00:15	0°♌	
	6271 Oct 08 21:12	0°♍	
	6271 Nov 23 11:23	0°♎	
	6272 Jan 16 14:00	0°♏	
retrograde	6272 Mar 15 00:48	16°♏13'14	
min. Earth dist.	6272 Apr 23 06:38	6°♏49'48	0.67424 AU
opposition	6272 Apr 24 10:25	6°♏22'03	3°17'30
greatest brilliancy	6272 Apr 24 07:27	6°♏25'01	-1.3m
	6272 May 12 04:43	30°℞♎	
direct	6272 Jun 03 20:38	26°♎43'12	
	6272 Jun 28 14:43	0°♏	
desc. node	6272 Aug 08 15:44	15°♏07'42	
	6272 Sep 07 05:50	0°♐	
	6272 Oct 28 12:08	0°♑	
	6272 Dec 13 05:50	0°♒	
	6273 Jan 24 11:59	0°♓	
evening set	6273 Mar 03 22:41	28°♓54'29	
	6273 Mar 05 08:46	0°♈	
	6273 Apr 12 18:55	0°♉	
conjunction	6273 May 08 19:22	20°♉35'10	-0°34'11
minimum elong	6273 May 08 22:29	20°♉41'20	0°34'12
	6273 May 20 16:56	0°♊	
max. Earth dist.	6273 May 27 08:51	5°♊15'28	2.36798 AU
asc. node	6273 Jun 28 05:55	0°♋10'03	
	6273 Jun 28 00:43	0°♋	
morning rise	6273 Jul 20 01:22	16°♋51'26	
	6273 Aug 06 14:11	0°♌	
	6273 Sep 17 02:35	0°♍	
	6273 Oct 31 05:42	0°♎	
	6273 Dec 17 23:34	0°♏	
	6274 Feb 11 03:08	0°♐	
retrograde	6274 Apr 18 13:09	19°♐07'27	
opposition	6274 May 28 07:01	9°♐48'42	1°01'24
greatest brilliancy	6274 May 28 09:43	9°♐46'03	-1.3m
min. Earth dist.	6274 May 30 22:44	8°♐46'00	0.66963 AU
desc. node	6274 Jun 26 14:35	0°♐44'08	
	6274 Jul 02 21:43	30°℞♏	
direct	6274 Jul 08 19:24	29°♏46'44	
	6274 Jul 14 20:35	0°♐	
	6274 Oct 03 21:20	0°♑	
	6274 Nov 22 00:24	0°♒	
	6275 Jan 04 04:57	0°♓	
	6275 Feb 13 06:40	0°♈	
	6275 Mar 23 17:01	0°♉	
greatest brilliancy	6275 Apr 14 00:45	16°♉51'39	1.2m
	6275 Apr 30 15:50	0°♊	
evening set	6275 May 14 19:41	11°♊07'36	
asc. node	6275 May 16 05:38	12°♊14'01	
	6275 Jun 08 03:02	0°♋	
	6275 Jul 17 22:06	0°♌	
conjunction	6275 Jul 20 21:06	2°♌10'43	0°41'37
minimum elong	6275 Jul 20 18:30	2°♌05'56	0°41'34
	6275 Aug 28 15:02	0°♍	
max. Earth dist.	6275 Sep 02 05:20	3°♍12'44	2.49659 AU
morning rise	6275 Sep 18 05:26	14°♍15'46	
	6275 Oct 11 13:32	0°♎	
	6275 Nov 26 21:17	0°♏	
	6276 Jan 15 02:06	0°♐	
	6276 Mar 09 20:56	0°♑	
desc. node	6276 May 13 12:50	23°♑11'35	
retrograde	6276 May 26 12:40	24°♑09'09	
opposition	6276 Jul 03 06:40	15°♑47'26	-1°55'37
greatest brilliancy	6276 Jul 03 16:35	15°♑38'03	-1.6m
min. Earth dist.	6276 Jul 09 13:35	13°♑24'21	0.59987 AU
direct	6276 Aug 13 03:47	5°♑57'34	
	6276 Oct 23 23:26	0°♒	
	6276 Dec 10 18:01	0°♓	
	6277 Jan 21 06:26	0°♈	
	6277 Mar 01 08:58	0°♉	
asc. node	6277 Apr 02 05:53	24°♉52'11	
	6277 Apr 08 19:56	0°♊	
	6277 May 17 20:01	0°♋	
	6277 Jun 27 05:21	0°♌	
evening set	6277 Jul 18 06:13	15°♌06'22	
	6277 Aug 08 11:59	0°♍	
conjunction	6277 Sep 11 00:28	22°♍49'26	1°07'27
minimum elong	6277 Sep 11 00:21	22°♍49'15	1°07'27
	6277 Sep 21 18:57	0°♎	
max. Earth dist.	6277 Oct 03 06:06	7°♎33'54	2.60896 AU
morning rise	6277 Oct 30 06:19	25°♎06'43	
	6277 Nov 06 21:12	0°♏	
	6277 Dec 24 11:21	0°♐	
	6278 Feb 11 14:38	0°♑	
desc. node	6278 Mar 31 11:16	27°♑43'14	
	6278 Apr 04 14:29	0°♒	
	6278 Jun 06 20:47	0°♓	
retrograde	6278 Jul 16 21:01	8°♓05'24	
opposition	6278 Aug 19 21:25	1°♓23'11	-5°20'16
greatest brilliancy	6278 Aug 21 11:31	0°♓50'52	-2.2m
	6278 Aug 23 23:20	30°℞♒	
min. Earth dist.	6278 Aug 28 11:36	28°♒29'39	0.47541 AU
direct	6278 Sep 26 02:22	23°♒09'55	
	6278 Oct 29 04:35	0°♓	
	6278 Dec 23 02:46	0°♈	
	6279 Feb 03 20:48	0°♉	
asc. node	6279 Feb 18 04:34	10°♉33'05	
	6279 Mar 16 07:44	0°♊	
	6279 Apr 25 20:31	0°♋	
	6279 Jun 06 13:52	0°♌	
	6279 Jul 19 23:50	0°♍	
evening set	6279 Sep 03 21:46	0°♎30'34	
	6279 Sep 03 03:04	0°♎	
	6279 Oct 19 14:07	0°♏	
conjunction	6279 Oct 21 16:14	1°♏20'04	0°53'42
minimum elong	6279 Oct 21 17:20	1°♏21'49	0°53'44
max. Earth dist.	6279 Oct 28 00:11	5°♏22'33	2.66971 AU
morning rise	6279 Dec 05 12:01	29°♏50'01	
	6279 Dec 05 18:19	0°♐	
	6280 Jan 22 02:55	0°♑	
desc. node	6280 Feb 16 09:53	16°♑01'56	
	6280 Mar 09 10:39	0°♒	
	6280 Apr 25 23:35	0°♓	
	6280 Jun 13 18:26	0°♈	
	6280 Aug 07 11:55	0°♉	
retrograde	6280 Sep 29 20:18	14°♉46'01	
opposition	6280 Oct 29 17:57	9°♉50'37	-4°41'23
greatest brilliancy	6280 Oct 30 04:34	9°♉43'35	-3.0m
min. Earth dist.	6280 Oct 31 04:24	9°♉27'50	0.36999 AU
direct	6280 Nov 28 14:48	4°♉49'03	
asc. node	6281 Jan 05 03:35	13°♉17'16	
	6281 Feb 07 11:02	0°♊	
	6281 Mar 27 23:34	0°♋	
	6281 May 12 21:21	0°♌	
	6281 Jun 27 23:07	0°♍	
	6281 Aug 13 19:43	0°♎	

	6281 Sep 30 06:07	0°♏	
evening set	6281 Oct 11 16:26	7°♏12'57	
	6281 Nov 16 15:49	0°♐	
max. Earth dist.	6281 Nov 18 11:27	1°♐09'23	2.67550 AU
conjunction	6281 Nov 25 18:05	5°♐47'32	0°20'09
minimum elong	6281 Nov 25 18:41	5°♐48'29	0°20'11
	6282 Jan 02 09:27	0°♑	
desc. node	6282 Jan 03 08:32	0°♑37'28	
morning rise	6282 Jan 08 15:13	4°♑03'27	
	6282 Feb 17 00:25	0°♒	
	6282 Apr 02 08:56	0°♓	
	6282 May 15 12:18	0°♈	
	6282 Jun 26 17:22	0°♉	
	6282 Aug 07 19:33	0°♊	
	6282 Sep 21 02:59	0°♋	
	6282 Nov 22 03:41	0°♌	
asc. node	6282 Nov 23 03:50	0°♌14'10	
retrograde	6282 Dec 09 22:11	2°♌12'40	
	6282 Dec 27 08:11	30°℞♋	
min. Earth dist.	6283 Jan 05 20:54	27°♋13'31	0.43940 AU
greatest brilliancy	6283 Jan 13 04:56	24°♋45'36	-2.5m
opposition	6283 Jan 14 05:44	24°♋24'36	3°07'48
direct	6283 Feb 15 06:10	18°♋03'15	
	6283 Apr 04 09:21	0°♌	
	6283 Jun 02 03:28	0°♍	
	6283 Jul 23 13:34	0°♎	
	6283 Sep 11 03:33	0°♏	
	6283 Oct 29 10:45	0°♐	
evening set	6283 Nov 16 21:44	11°♐42'45	
desc. node	6283 Nov 21 07:13	14°♐31'36	
max. Earth dist.	6283 Dec 12 08:07	28°♐07'52	2.62688 AU
	6283 Dec 15 04:45	0°♑	
conjunction	6284 Jan 01 06:44	11°♑15'43	-0°21'48
minimum elong	6284 Jan 01 06:01	11°♑14'32	0°21'45
	6284 Jan 29 02:29	0°♒	
morning rise	6284 Feb 16 14:48	12°♒45'27	
	6284 Mar 12 02:35	0°♓	
	6284 Apr 22 09:29	0°♈	
	6284 Jun 01 08:47	0°♉	
	6284 Jul 10 15:38	0°♊	
	6284 Aug 19 05:16	0°♋	
	6284 Sep 29 14:14	0°♌	
asc. node	6284 Oct 10 01:43	7°♌11'51	
	6284 Nov 15 05:16	0°♍	
retrograde	6285 Jan 24 20:55	24°♍50'34	
min. Earth dist.	6285 Feb 26 14:07	17°♍37'16	0.57241 AU
greatest brilliancy	6285 Mar 03 21:14	15°♍33'09	-1.8m
opposition	6285 Mar 05 00:14	15°♍06'43	4°57'22
direct	6285 Apr 10 13:08	6°♍48'21	
	6285 Jun 24 17:13	0°♎	
	6285 Aug 19 18:56	0°♏	
desc. node	6285 Oct 08 06:17	29°♏20'13	
	6285 Oct 09 08:14	0°♐	
	6285 Nov 25 18:58	0°♑	
evening set	6285 Dec 24 11:10	19°♑01'03	
max. Earth dist.	6286 Jan 09 07:44	29°♑50'13	2.52761 AU
	6286 Jan 09 13:25	0°♒	
conjunction	6286 Feb 11 20:13	23°♒26'08	-0°58'27
minimum elong	6286 Feb 11 18:55	23°♒23'48	0°58'25
	6286 Feb 20 22:12	0°♓	
	6286 Apr 02 07:34	0°♈	
morning rise	6286 Apr 07 16:23	4°♈04'34	
	6286 May 11 07:56	0°♉	
	6286 Jun 18 17:02	0°♊	
	6286 Jul 27 07:43	0°♋	
asc. node	6286 Aug 28 00:33	23°♋59'22	
	6286 Sep 05 03:45	0°♌	
	6286 Oct 17 10:46	0°♍	
	6286 Dec 03 13:04	0°♎	
	6287 Feb 07 11:02	0°♏	
retrograde	6287 Mar 02 17:45	3°♏11'33	
	6287 Mar 24 10:22	30°℞♎	
min. Earth dist.	6287 Apr 09 09:37	24°♎18'08	0.65818 AU
opposition	6287 Apr 12 01:40	23°♎14'03	3°58'30
greatest brilliancy	6287 Apr 11 16:56	23°♎22'48	-1.4m
direct	6287 May 21 16:24	13°♎51'22	
	6287 Jul 21 13:34	0°♏	
desc. node	6287 Aug 26 05:23	17°♏30'38	
	6287 Sep 17 19:05	0°♐	
	6287 Nov 06 08:15	0°♑	
	6287 Dec 21 14:58	0°♒	
	6288 Feb 01 19:55	0°♓	
evening set	6288 Feb 09 20:44	5°♓55'05	
max. Earth dist.	6288 Mar 01 19:20	21°♓37'12	2.39681 AU
	6288 Mar 12 18:54	0°♈	
conjunction	6288 Apr 09 22:09	21°♈49'51	-0°56'44
minimum elong	6288 Apr 10 00:44	21°♈54'55	0°56'44
	6288 Apr 20 07:51	0°♉	
	6288 May 28 07:38	0°♊	
morning rise	6288 Jun 19 18:08	17°♊38'07	
	6288 Jul 05 15:37	0°♋	
asc. node	6288 Jul 15 00:12	7°♋12'26	
	6288 Aug 14 04:22	0°♌	
	6288 Sep 24 17:07	0°♍	
	6288 Nov 08 03:09	0°♎	
	6288 Dec 27 03:39	0°♏	
	6289 Feb 28 10:57	0°♐	
retrograde	6289 Apr 04 22:19	6°♐33'39	
	6289 May 07 07:30	30°℞♏	
opposition	6289 May 15 01:40	26°♏59'34	1°58'45
greatest brilliancy	6289 May 15 04:01	26°♏57'15	-1.3m
min. Earth dist.	6289 May 16 05:33	26°♏31'55	0.67928 AU
direct	6289 Jun 25 07:58	17°♏03'29	
desc. node	6289 Jul 13 04:28	18°♏50'36	
	6289 Aug 17 03:33	0°♐	
	6289 Oct 14 02:16	0°♑	
	6289 Nov 30 08:53	0°♒	
	6290 Jan 12 01:29	0°♓	
	6290 Feb 20 23:56	0°♈	
	6290 Mar 31 09:25	0°♉	
evening set	6290 Apr 15 09:19	11°♉52'03	
	6290 May 08 07:08	0°♊	
asc. node	6290 Jun 01 22:36	19°♊21'08	
	6290 Jun 15 16:01	0°♋	
conjunction	6290 Jun 24 07:29	6°♋38'31	0°15'31
minimum elong	6290 Jun 24 06:00	6°♋35'40	0°15'26
behind sun begin	6290 Jun 23 22:16	6°♋20'53	
behind sun end	6290 Jun 24 13:43	6°♋50'27	
	6290 Jul 25 07:44	0°♌	
max. Earth dist.	6290 Aug 14 07:24	14°♌37'15	2.44194 AU
morning rise	6290 Aug 28 13:01	24°♌48'46	
	6290 Sep 04 21:15	0°♍	
	6290 Oct 18 18:53	0°♎	
	6290 Dec 04 09:59	0°♏	
	6291 Jan 23 22:34	0°♐	
	6291 Mar 26 08:46	0°♑	
retrograde	6291 May 11 10:52	10°♑08'38	
desc. node	6291 May 31 02:53	7°♑41'39	
opposition	6291 Jun 19 04:00	1°♑20'54	-0°42'09

greatest brilliancy	6291 Jun 19 06:48	1°♉18'12	-1.5m
	6291 Jun 22 15:36	30°℞♐	
min. Earth dist.	6291 Jun 24 01:42	29°♐27'10	0.63463 AU
direct	6291 Jul 30 13:09	21°♐20'18	
	6291 Sep 09 02:57	0°♉	
	6291 Nov 06 05:31	0°♒	
	6291 Dec 21 06:45	0°♓	
	6292 Jan 30 23:30	0°♈	
	6292 Mar 09 16:53	0°♉	
	6292 Apr 16 21:07	0°♊	
asc. node	6292 Apr 18 21:30	1°♊34'44	
	6292 May 25 14:23	0°♋	
evening set	6292 Jun 25 05:35	23°♋02'21	
	6292 Jul 04 16:36	0°♌	
	6292 Aug 15 16:20	0°♍	
conjunction	6292 Aug 23 09:22	5°♍21'03	1°03'39
minimum elong	6292 Aug 23 08:11	5°♍19'01	1°03'37
max. Earth dist.	6292 Sep 22 06:38	25°♍40'21	2.57071 AU
	6292 Sep 28 18:20	0°♎	
morning rise	6292 Oct 14 17:09	10°♎31'42	
	6292 Nov 13 20:13	0°♏	
	6292 Dec 31 20:04	0°♐	
	6293 Feb 20 07:55	0°♉	
desc. node	6293 Apr 17 01:29	29°♉33'05	
	6293 Apr 18 00:26	0°♒	
retrograde	6293 Jun 24 14:47	19°♒25'50	
opposition	6293 Jul 30 07:50	11°♒57'41	-4°01'56
greatest brilliancy	6293 Jul 31 10:42	11°♒33'26	-2.0m
min. Earth dist.	6293 Aug 07 09:15	9°♒03'51	0.52886 AU
direct	6293 Sep 07 11:40	2°♒50'31	
	6293 Nov 20 21:51	0°♓	
	6294 Jan 05 00:01	0°♈	
	6294 Feb 14 11:58	0°♉	
asc. node	6294 Mar 06 21:37	15°♉33'01	
	6294 Mar 25 19:25	0°♊	
	6294 May 04 12:18	0°♋	
	6294 Jun 14 13:15	0°♌	
	6294 Jul 27 09:43	0°♍	
evening set	6294 Aug 17 21:23	14°♍33'38	
	6294 Sep 10 03:02	0°♎	
conjunction	6294 Oct 06 17:55	17°♎22'03	1°02'11
minimum elong	6294 Oct 06 18:48	17°♎23'30	1°02'12
max. Earth dist.	6294 Oct 18 18:16	25°♎06'59	2.65257 AU
	6294 Oct 26 08:55	0°♏	
morning rise	6294 Nov 21 19:22	16°♏50'36	
	6294 Dec 12 14:50	0°♐	
	6295 Jan 29 11:13	0°♑	
desc. node	6295 Mar 05 00:46	21°♑25'48	
	6295 Mar 18 23:56	0°♒	
	6295 May 08 05:48	0°♓	
	6295 Jul 03 22:55	0°♈	
retrograde	6295 Aug 29 08:53	15°♈16'30	
opposition	6295 Sep 29 05:23	9°♈55'44	-6°14'15
greatest brilliancy	6295 Sep 30 17:09	9°♈29'52	-2.7m
min. Earth dist.	6295 Oct 05 11:46	8°♈07'29	0.39757 AU
direct	6295 Oct 31 23:06	3°♈48'08	
	6296 Jan 10 15:17	0°♉	
asc. node	6296 Jan 22 20:17	7°♉32'52	
	6296 Feb 25 15:50	0°♊	
	6296 Apr 08 22:46	0°♋	
	6296 May 22 11:25	0°♌	
	6296 Jul 06 03:58	0°♍	
	6296 Aug 21 04:10	0°♎	
evening set	6296 Sep 27 04:35	23°♎40'56	
	6296 Oct 07 03:04	0°♏	
max. Earth dist.	6296 Nov 09 21:42	21°♏26'13	2.67991 AU
	6296 Nov 11 21:56	22°♏42'45	0°34'41
conjunction	6296 Nov 11 22:51	22°♏44'14	0°34'43
minimum elong	6296 Nov 23 09:08	0°♐	
	6296 Dec 25 18:56	20°♐41'12	
morning rise	6297 Jan 09 06:47	0°♑	
	6297 Jan 19 23:16	6°♑54'00	
desc. node	6297 Feb 24 10:06	0°♒	
	6297 Apr 10 16:22	0°♓	
	6297 May 25 04:11	0°♈	
	6297 Jul 08 09:14	0°♉	
	6297 Aug 23 00:42	0°♊	
	6297 Oct 20 04:12	0°♋	
retrograde	6297 Nov 15 21:57	4°♋45'47	
asc. node	6297 Dec 09 19:19	1°♋01'17	
min. Earth dist.	6297 Dec 12 03:55	0°♋20'37	0.39263 AU
	6297 Dec 13 07:53	30°℞♊	
opposition	6297 Dec 18 15:51	28°♊23'56	0°37'35
greatest brilliancy	6297 Dec 18 11:27	28°♊27'14	-2.9m
direct	6298 Jan 17 17:59	22°♊59'06	
	6298 Feb 21 16:45	0°♋	
	6298 Apr 23 10:04	0°♌	
	6298 Jun 12 22:10	0°♍	
	6298 Jul 31 21:40	0°♎	
	6298 Sep 18 10:09	0°♏	
evening set	6298 Nov 02 19:52	28°♏26'43	
	6298 Nov 05 06:47	0°♐	
max. Earth dist.	6298 Dec 02 18:00	17°♐32'16	2.65244 AU
desc. node	6298 Dec 07 21:30	20°♐51'28	
conjunction	6298 Dec 17 17:00	27°♐13'11	-0°05'18
minimum elong	6298 Dec 17 16:51	27°♐12'56	0°05'15
behind sun begin	6298 Dec 16 22:55	26°♐43'48	
behind sun end	6298 Dec 18 10:47	27°♐42'05	
	6298 Dec 21 23:23	0°♑	
morning rise	6299 Jan 31 13:36	26°♑55'55	
	6299 Feb 05 02:31	0°♒	
	6299 Mar 20 13:15	0°♓	
	6299 May 01 09:58	0°♈	
	6299 Jun 11 00:37	0°♉	
	6299 Jul 20 23:47	0°♊	
	6299 Aug 30 10:25	0°♋	
	6299 Oct 12 15:06	0°♌	
asc. node	6299 Oct 27 19:42	9°♌33'05	
	6299 Dec 07 00:05	0°♍	
retrograde	6300 Jan 09 09:58	7°♍01'27	
min. Earth dist.	6300 Feb 08 19:36	0°♍38'39	0.52325 AU
	6300 Feb 10 13:09	30°℞♌	
greatest brilliancy	6300 Feb 15 03:53	28°♌14'58	-2.0m
opposition	6300 Feb 16 11:49	27°♌44'40	4°47'26
direct	6300 Mar 23 10:09	20°♌04'26	
	6300 May 06 18:46	0°♍	
	6300 Jul 07 17:04	0°♎	
	6300 Aug 29 04:40	0°♏	
	6300 Oct 17 15:09	0°♐	
desc. node	6300 Oct 25 20:20	5°♐07'46	
	6300 Dec 03 17:25	0°♑	
evening set	6300 Dec 09 20:53	4°♑01'37	
max. Earth dist.	6300 Dec 29 01:24	16°♑46'54	2.57204 AU
	6301 Jan 17 12:08	0°♒	
conjunction	6301 Jan 26 02:25	5°♒56'12	-0°46'16
minimum elong	6301 Jan 26 01:04	5°♒53'51	0°46'13
	6301 Mar 01 02:04	0°♓	
morning rise	6301 Mar 17 13:00	11°♓59'01	
	6301 Apr 10 18:45	0°♈	

	6301 May 20 02:44	0°♉	
	6301 Jun 27 18:34	0°♊	
	6301 Aug 05 15:10	0°♋	
asc. node	6301 Sep 14 18:36	29°♋58'58	
	6301 Sep 14 19:10	0°♌	
	6301 Oct 27 21:38	0°♍	
	6301 Dec 17 04:38	0°♎	
retrograde	6302 Feb 18 00:16	19°♎24'04	
min. Earth dist.	6302 Mar 25 21:28	11°♎05'36	0.63181 AU
greatest brilliancy	6302 Mar 29 10:04	9°♎41'12	-1.5m
opposition	6302 Mar 30 01:49	9°♎25'30	4°31'19
direct	6302 May 07 15:48	0°♎23'37	
	6302 Aug 04 11:21	0°♏	
desc. node	6302 Sep 12 19:31	21°♏30'55	
	6302 Sep 27 08:01	0°♐	
	6302 Nov 14 19:41	0°♑	
	6302 Dec 29 19:44	0°♒	
evening set	6303 Jan 21 19:17	16°♒06'30	
max. Earth dist.	6303 Feb 05 05:13	26°♒28'33	2.44812 AU
	6303 Feb 10 01:18	0°♓	
conjunction	6303 Mar 17 16:16	26°♓35'32	-1°05'34
minimum elong	6303 Mar 17 16:41	26°♓36'21	1°05'34
	6303 Mar 22 03:30	0°♈	
	6303 Apr 29 20:06	0°♉	
morning rise	6303 May 21 11:08	17°♉00'49	
	6303 Jun 06 22:41	0°♊	
	6303 Jul 15 08:10	0°♋	
asc. node	6303 Aug 02 16:19	14°♋03'14	
	6303 Aug 23 21:58	0°♌	
	6303 Oct 04 14:07	0°♍	
	6303 Nov 18 13:46	0°♎	
	6304 Jan 08 23:37	0°♏	
retrograde	6304 Mar 23 15:15	23°♏59'16	
opposition	6304 May 02 23:32	14°♏13'12	2°50'16
greatest brilliancy	6304 May 02 23:01	14°♏13'44	-1.3m
min. Earth dist.	6304 May 02 15:19	14°♏21'24	0.67878 AU
direct	6304 Jun 12 18:09	4°♏27'20	
desc. node	6304 Jul 30 18:44	15°♏18'37	
	6304 Sep 01 00:59	0°♐	
	6304 Oct 24 00:27	0°♑	
	6304 Dec 09 05:56	0°♒	
	6305 Jan 20 16:06	0°♓	
	6305 Mar 01 13:45	0°♈	
evening set	6305 Mar 19 08:35	13°♈47'24	
	6305 Apr 08 23:44	0°♉	
	6305 May 16 21:20	0°♊	
conjunction	6305 May 26 18:15	7°♊47'26	-0°16'47
minimum elong	6305 May 26 20:01	7°♊50'56	0°16'49
asc. node	6305 Jun 19 15:28	26°♊28'25	
	6305 Jun 24 04:42	0°♋	
max. Earth dist.	6305 Jul 15 02:41	16°♋01'03	2.38820 AU
	6305 Aug 02 17:55	0°♌	
morning rise	6305 Aug 05 10:03	1°♌58'49	
	6305 Sep 13 05:22	0°♍	
	6305 Oct 27 04:33	0°♎	
	6305 Dec 13 08:57	0°♏	
	6306 Feb 04 04:08	0°♐	
retrograde	6306 Apr 27 15:35	26°♐56'15	
opposition	6306 Jun 06 01:44	17°♐47'27	0°25'00
greatest brilliancy	6306 Jun 06 03:14	17°♐45'59	-1.4m
min. Earth dist.	6306 Jun 09 12:37	16°♐26'18	0.65980 AU
desc. node	6306 Jun 17 17:58	13°♐21'24	
direct	6306 Jul 17 14:37	7°♐44'25	
	6306 Sep 27 01:19	0°♑	
	6306 Nov 17 04:15	0°♒	
	6306 Dec 30 22:01	0°♓	
	6307 Feb 09 04:31	0°♈	
	6307 Mar 19 17:11	0°♉	
	6307 Apr 26 17:38	0°♊	
asc. node	6307 May 07 14:44	8°♊32'38	
evening set	6307 May 31 21:16	27°♊24'13	
	6307 Jun 04 06:18	0°♋	
	6307 Jul 14 02:59	0°♌	
conjunction	6307 Aug 04 05:04	15°♌20'15	0°52'12
minimum elong	6307 Aug 04 02:46	15°♌16'07	0°52'10
	6307 Aug 24 21:11	0°♍	
max. Earth dist.	6307 Sep 11 16:24	12°♍20'23	2.52473 AU
morning rise	6307 Sep 29 17:08	24°♍34'58	
	6307 Oct 07 19:29	0°♎	
	6307 Nov 22 23:22	0°♏	
	6308 Jan 10 14:28	0°♐	
	6308 Mar 03 07:05	0°♑	
desc. node	6308 May 04 16:30	27°♑37'32	
	6308 May 13 07:16	0°♒	
retrograde	6308 Jun 06 09:42	3°♒07'47	
	6308 Jun 28 16:57	30°℞♑	
opposition	6308 Jul 13 12:06	25°♑02'57	-2°40'42
greatest brilliancy	6308 Jul 14 03:29	24°♑48'33	-1.7m
min. Earth dist.	6308 Jul 20 11:49	22°♑26'12	0.57669 AU
direct	6308 Aug 22 21:56	15°♑23'49	
	6308 Oct 14 18:00	0°♒	
	6308 Dec 05 00:05	0°♓	
	6309 Jan 16 08:49	0°♈	
	6309 Feb 24 20:01	0°♉	
asc. node	6309 Mar 24 13:18	21°♉30'06	
	6309 Apr 04 12:27	0°♊	
	6309 May 13 16:54	0°♋	
	6309 Jun 23 06:25	0°♌	
evening set	6309 Jul 31 00:53	26°♌46'17	
	6309 Aug 04 16:45	0°♍	
	6309 Sep 18 02:16	0°♎	
conjunction	6309 Sep 21 18:20	2°♎25'30	1°06'54
minimum elong	6309 Sep 21 18:42	2°♎26'07	1°06'53
max. Earth dist.	6309 Oct 10 02:54	14°♎27'21	2.62691 AU
	6309 Nov 03 04:44	0°♏	
morning rise	6309 Nov 08 15:44	3°♏29'32	
	6309 Dec 20 14:40	0°♐	
	6310 Feb 07 04:11	0°♑	
desc. node	6310 Mar 22 15:03	25°♑58'19	
	6310 Mar 29 13:36	0°♒	
	6310 May 24 07:34	0°♓	
retrograde	6310 Aug 01 03:41	20°♓30'56	
opposition	6310 Sep 03 01:40	14°♓17'47	-5°55'41
greatest brilliancy	6310 Sep 04 19:42	13°♓43'54	-2.4m
min. Earth dist.	6310 Sep 11 11:53	11°♓35'56	0.44571 AU
direct	6310 Oct 08 21:24	6°♓44'34	
	6310 Dec 13 14:39	0°♈	
	6311 Jan 28 06:10	0°♉	
asc. node	6311 Feb 09 13:19	8°♉44'55	
	6311 Mar 10 19:44	0°♊	
	6311 Apr 21 00:08	0°♋	
	6311 Jun 02 04:33	0°♌	
	6311 Jul 15 22:51	0°♍	
	6311 Aug 30 07:57	0°♎	
evening set	6311 Sep 14 00:57	9°♎32'12	
	6311 Oct 15 22:17	0°♏	
conjunction	6311 Oct 30 21:58	9°♏32'55	0°47'22
minimum elong	6311 Oct 30 23:04	9°♏34'39	0°47'24
max. Earth dist.	6311 Nov 03 04:57	11°♏38'30	2.67579 AU

	6311 Dec 02 02:35	0°♐	
morning rise	6311 Dec 14 06:07	7°♐42'56	
	6312 Jan 18 06:25	0°♑	
desc. node	6312 Feb 07 13:44	12°♑58'44	
	6312 Mar 05 02:20	0°♒	
	6312 Apr 20 15:35	0°♓	
	6312 Jun 06 09:07	0°♈	
	6312 Jul 24 22:55	0°♉	
	6312 Sep 26 11:09	0°♊	
retrograde	6312 Oct 19 00:17	3°♊12'33	
	6312 Nov 10 20:32	30°℞♉	
min. Earth dist.	6312 Nov 16 12:44	28°♉31'40	0.36879 AU
opposition	6312 Nov 18 06:47	28°♉03'33	-2°54'16
greatest brilliancy	6312 Nov 18 05:51	28°♉04'10	-3.0m
direct	6312 Dec 17 15:42	23°♉10'34	
asc. node	6312 Dec 27 13:25	23°♉49'18	
	6313 Jan 20 08:33	0°♊	
	6313 Mar 19 19:44	0°♋	
	6313 May 07 02:45	0°♌	
	6313 Jun 23 06:51	0°♍	
	6313 Aug 09 17:34	0°♎	
	6313 Sep 26 11:39	0°♏	
evening set	6313 Oct 20 19:22	15°♏18'09	
	6313 Nov 13 00:50	0°♐	
max. Earth dist.	6313 Nov 24 15:37	7°♐23'50	2.66962 AU
conjunction	6313 Dec 04 16:28	13°♐49'01	0°11'01
minimum elong	6313 Dec 04 16:49	13°♐49'33	0°11'04
behind sun begin	6313 Dec 04 03:12	13°♐27'45	
behind sun end	6313 Dec 05 06:25	14°♐11'22	
desc. node	6313 Dec 25 11:32	27°♐13'43	
	6313 Dec 29 17:58	0°♑	
morning rise	6314 Jan 17 18:07	12°♑26'11	
	6314 Feb 13 04:31	0°♒	
	6314 Mar 29 04:36	0°♓	
	6314 May 10 19:27	0°♈	
	6314 Jun 21 07:51	0°♉	
	6314 Aug 01 09:52	0°♊	
	6314 Sep 12 15:19	0°♋	
	6314 Oct 31 01:43	0°♌	
asc. node	6314 Nov 14 12:08	6°♌56'52	
retrograde	6314 Dec 22 18:46	16°♌10'18	
min. Earth dist.	6315 Jan 19 20:14	10°♌41'54	0.46936 AU
greatest brilliancy	6315 Jan 26 23:32	8°♌10'12	-2.3m
opposition	6315 Jan 28 06:05	7°♌42'55	4°00'15
direct	6315 Mar 02 09:25	0°♌50'34	
	6315 May 25 22:20	0°♍	
	6315 Jul 18 14:57	0°♎	
	6315 Sep 07 00:52	0°♏	
	6315 Oct 25 16:44	0°♐	
desc. node	6315 Nov 12 10:05	11°♐12'05	
evening set	6315 Nov 26 02:39	19°♐58'10	
	6315 Dec 11 13:38	0°♑	
max. Earth dist.	6315 Dec 19 05:16	5°♑01'11	2.60955 AU
conjunction	6316 Jan 10 23:16	20°♑10'21	-0°31'14
minimum elong	6316 Jan 10 22:16	20°♑08'41	0°31'10
	6316 Jan 25 10:37	0°♒	
morning rise	6316 Feb 27 10:54	22°♒59'00	
	6316 Mar 08 07:26	0°♓	
	6316 Apr 18 09:19	0°♈	
	6316 May 28 02:44	0°♉	
	6316 Jul 06 03:21	0°♊	
	6316 Aug 14 08:54	0°♋	
	6316 Sep 24 03:04	0°♌	
asc. node	6316 Oct 01 10:51	5°♌10'18	
	6316 Nov 07 20:22	0°♍	
	6317 Jan 07 12:41	0°♎	
retrograde	6317 Feb 03 13:55	4°♎30'46	
	6317 Feb 28 23:51	30°℞♍	
min. Earth dist.	6317 Mar 09 11:48	26°♍52'34	0.59608 AU
greatest brilliancy	6317 Mar 14 04:20	25°♍01'27	-1.6m
opposition	6317 Mar 15 03:34	24°♍38'30	4°52'42
direct	6317 Apr 21 11:39	16°♍02'49	
	6317 Jun 15 17:43	0°♎	
	6317 Aug 14 16:55	0°♏	
desc. node	6317 Sep 29 09:47	26°♏28'56	
	6317 Oct 05 05:27	0°♐	
	6317 Nov 22 00:22	0°♑	
evening set	6318 Jan 03 22:30	28°♑39'58	
	6318 Jan 05 21:01	0°♒	
max. Earth dist.	6318 Jan 18 15:45	8°♒52'57	2.50038 AU
	6318 Feb 17 05:07	0°♓	
conjunction	6318 Feb 23 22:28	4°♓54'44	-1°03'17
minimum elong	6318 Feb 23 21:31	4°♓52'59	1°03'16
	6318 Mar 29 12:19	0°♈	
morning rise	6318 Apr 22 22:33	18°♈44'36	
	6318 May 07 10:04	0°♉	
	6318 Jun 14 16:48	0°♊	
	6318 Jul 23 05:03	0°♋	
asc. node	6318 Aug 19 10:04	20°♋42'33	
	6318 Aug 31 21:29	0°♌	
	6318 Oct 12 20:28	0°♍	
	6318 Nov 27 20:27	0°♎	
	6319 Jan 23 14:35	0°♏	
retrograde	6319 Mar 11 09:11	11°♏11'41	
min. Earth dist.	6319 Apr 18 22:20	2°♏01'24	0.66826 AU
opposition	6319 Apr 20 18:45	1°♏16'59	3°35'28
greatest brilliancy	6319 Apr 20 13:23	1°♏22'21	-1.3m
	6319 Apr 24 00:13	30°℞♎	
direct	6319 May 30 21:07	21°♎44'58	
	6319 Jul 11 00:26	0°♏	
desc. node	6319 Aug 17 09:13	16°♏11'01	
	6319 Sep 12 15:24	0°♐	
	6319 Nov 02 04:23	0°♑	
	6319 Dec 17 18:36	0°♒	
	6320 Jan 29 01:33	0°♓	
evening set	6320 Feb 23 12:15	18°♓57'01	
	6320 Mar 09 00:08	0°♈	
max. Earth dist.	6320 Mar 31 20:27	17°♈42'52	2.37359 AU
	6320 Apr 16 11:55	0°♉	
conjunction	6320 Apr 26 20:42	8°♉10'51	-0°45'31
minimum elong	6320 Apr 27 00:00	8°♉17'23	0°45'31
	6320 May 24 10:44	0°♊	
	6320 Jul 01 18:02	0°♋	
asc. node	6320 Jul 06 07:25	3°♋31'15	
morning rise	6320 Jul 08 05:15	4°♋59'32	
	6320 Aug 10 06:06	0°♌	
	6320 Sep 20 17:11	0°♍	
	6320 Nov 03 20:53	0°♎	
	6320 Dec 21 23:25	0°♏	
	6321 Feb 17 06:16	0°♐	
retrograde	6321 Apr 13 16:21	14°♐12'43	
opposition	6321 May 23 14:39	4°♐46'33	1°25'51
greatest brilliancy	6321 May 23 17:28	4°♐43'46	-1.3m
min. Earth dist.	6321 May 25 13:54	3°♐59'52	0.67525 AU
	6321 Jun 05 05:31	30°℞♏	
direct	6321 Jul 04 00:52	24°♏46'46	
desc. node	6321 Jul 04 07:59	24°♏46'48	
	6321 Aug 04 13:22	0°♐	
	6321 Oct 08 16:18	0°♑	
	6321 Nov 26 00:22	0°♒	

	6322 Jan 08 01:01	0°♓	
	6322 Feb 17 02:04	0°♈	
	6322 Mar 27 12:16	0°♉	
evening set	6322 May 02 23:11	28°♉50'37	
	6322 May 04 10:20	0°♊	
asc. node	6322 May 24 06:46	15°♊36'16	
	6322 Jun 11 19:39	0°♋	
conjunction	6322 Jul 10 18:36	22°♋00'57	0°31'33
minimum elong	6322 Jul 10 16:09	21°♋56'22	0°31'28
	6322 Jul 21 12:00	0°♌	
max. Earth dist.	6322 Aug 27 01:54	26°♌28'12	2.47262 AU
	6322 Sep 01 02:03	0°♍	
morning rise	6322 Sep 10 15:52	6°♍41'33	
	6322 Oct 14 22:26	0°♎	
	6322 Nov 30 07:28	0°♏	
	6323 Jan 18 22:15	0°♐	
	6323 Mar 16 15:10	0°♑	
retrograde	6323 May 21 10:37	18°♑29'44	
desc. node	6323 May 22 06:32	18°♑29'29	
opposition	6323 Jun 28 15:28	9°♑55'35	-1°24'02
greatest brilliancy	6323 Jun 28 21:54	9°♑49'25	-1.6m
min. Earth dist.	6323 Jul 04 07:22	7°♑45'30	0.61665 AU
direct	6323 Aug 08 18:46	29°♐59'51	
	6323 Aug 08 04:08	30°℞♐	
	6323 Aug 09 09:25	0°♑	
	6323 Oct 30 21:50	0°♒	
	6323 Dec 16 09:21	0°♓	
	6324 Jan 26 13:22	0°♈	
	6324 Mar 05 11:50	0°♉	
asc. node	6324 Apr 10 07:20	28°♉02'42	
	6324 Apr 12 19:24	0°♊	
	6324 May 21 15:24	0°♋	
	6324 Jun 30 20:08	0°♌	
evening set	6324 Jul 09 15:31	6°♌23'53	
	6324 Aug 11 22:13	0°♍	
conjunction	6324 Sep 04 06:11	16°♍01'49	1°06'38
minimum elong	6324 Sep 04 05:40	16°♍00'57	1°06'37
	6324 Sep 25 01:24	0°♎	
max. Earth dist.	6324 Sep 29 21:21	3°♎12'13	2.59278 AU
morning rise	6324 Oct 24 18:05	19°♎28'56	
	6324 Nov 10 02:14	0°♏	
	6324 Dec 27 19:14	0°♐	
	6325 Feb 15 09:54	0°♑	
desc. node	6325 Apr 08 05:04	29°♑06'03	
	6325 Apr 09 22:16	0°♒	
	6325 Jul 03 06:01	0°♓	
retrograde	6325 Jul 07 17:16	0°♓07'18	
	6325 Jul 12 03:11	30°℞♒	
opposition	6325 Aug 11 13:23	23°♒03'19	-4°47'41
greatest brilliancy	6325 Aug 12 22:59	22°♒33'56	-2.1m
min. Earth dist.	6325 Aug 20 00:56	20°♒06'26	0.49974 AU
direct	6325 Sep 18 17:50	14°♒23'01	
	6325 Nov 10 16:26	0°♓	
	6325 Dec 29 13:08	0°♈	
	6326 Feb 09 02:44	0°♉	
asc. node	6326 Feb 26 06:12	12°♉51'02	
	6326 Mar 20 23:30	0°♊	
	6326 Apr 30 01:42	0°♋	
	6326 Jun 10 09:55	0°♌	
	6326 Jul 23 12:20	0°♍	
evening set	6326 Aug 28 18:34	24°♍18'57	
	6326 Sep 06 09:42	0°♎	
conjunction	6326 Oct 16 09:29	25°♎56'17	0°57'37
minimum elong	6326 Oct 16 10:32	25°♎57'58	0°57'38
	6326 Oct 22 17:31	0°♏	
max. Earth dist.	6326 Oct 25 03:54	1°♏33'26	2.66307 AU
morning rise	6326 Nov 30 16:53	24°♏48'17	
	6326 Dec 08 21:53	0°♐	
	6327 Jan 25 11:02	0°♑	
desc. node	6327 Feb 24 03:30	18°♑39'33	
	6327 Mar 14 06:17	0°♒	
	6327 May 01 19:10	0°♓	
	6327 Jun 21 22:46	0°♈	
	6327 Aug 31 09:49	0°♉	
retrograde	6327 Sep 17 07:14	1°♉45'01	
	6327 Oct 04 05:18	30°℞♈	
opposition	6327 Oct 17 11:07	26°♈44'30	-5°38'22
greatest brilliancy	6327 Oct 18 10:07	26°♈28'49	-2.9m
min. Earth dist.	6327 Oct 21 08:30	25°♈41'04	0.37873 AU
direct	6327 Nov 17 09:57	21°♈19'36	
	6327 Dec 25 00:10	0°♉	
asc. node	6328 Jan 14 04:47	9°♉44'25	
	6328 Feb 17 07:31	0°♊	
	6328 Apr 02 19:55	0°♋	
	6328 May 17 11:06	0°♌	
	6328 Jul 01 19:42	0°♍	
	6328 Aug 17 05:41	0°♎	
	6328 Oct 03 10:15	0°♏	
evening set	6328 Oct 06 13:07	1°♏58'32	
max. Earth dist.	6328 Nov 15 23:17	27°♏35'30	2.67848 AU
	6328 Nov 19 18:13	0°♐	
conjunction	6328 Nov 20 20:25	0°♐41'40	0°26'21
minimum elong	6328 Nov 20 21:10	0°♐42'51	0°26'24
morning rise	6329 Jan 03 16:03	28°♐46'09	
	6329 Jan 05 13:45	0°♑	
desc. node	6329 Jan 11 02:12	3°♑34'23	
	6329 Feb 20 10:30	0°♒	
	6329 Apr 06 04:33	0°♓	
	6329 May 19 21:26	0°♈	
	6329 Jul 01 20:44	0°♉	
	6329 Aug 14 02:42	0°♊	
	6329 Sep 30 05:58	0°♋	
retrograde	6329 Dec 01 00:47	21°♋15'00	
asc. node	6329 Dec 01 05:21	21°♋14'59	
min. Earth dist.	6329 Dec 27 08:24	16°♋35'14	0.41667 AU
greatest brilliancy	6330 Jan 03 11:56	14°♋18'11	-2.7m
opposition	6330 Jan 04 05:15	14°♋04'16	2°13'03
direct	6330 Feb 04 07:51	8°♋08'59	
	6330 Apr 14 03:23	0°♌	
	6330 Jun 07 04:55	0°♍	
	6330 Jul 27 09:47	0°♎	
	6330 Sep 14 11:48	0°♏	
	6330 Nov 01 14:35	0°♐	
evening set	6330 Nov 11 20:24	6°♐29'23	
desc. node	6330 Nov 29 00:55	17°♐28'43	
max. Earth dist.	6330 Dec 09 04:11	24°♐01'30	2.63927 AU
	6330 Dec 18 08:33	0°♑	
conjunction	6330 Dec 26 22:45	5°♑37'49	-0°14'55
minimum elong	6330 Dec 26 22:17	5°♑37'02	0°14'52
behind sun begin	6330 Dec 26 14:58	5°♑25'01	
behind sun end	6330 Dec 27 05:35	5°♑49'03	
	6331 Feb 01 09:32	0°♒	
morning rise	6331 Feb 10 12:46	6°♒14'16	
	6331 Mar 16 15:00	0°♓	
	6331 Apr 27 04:32	0°♈	
	6331 Jun 06 10:36	0°♉	
	6331 Jul 16 00:10	0°♊	
	6331 Aug 24 21:05	0°♋	
	6331 Oct 05 19:15	0°♌	

asc. node	6331 Oct 19 03:47	8°♌55'17	
	6331 Nov 23 11:42	0°♍	
retrograde	6332 Jan 19 23:29	17°♍55'05	
min. Earth dist.	6332 Feb 20 16:38	11°♍03'36	0.55133 AU
greatest brilliancy	6332 Feb 26 11:17	8°♍49'51	-1.9m
opposition	6332 Feb 27 17:03	8°♍21'04	4°56'57
direct	6332 Apr 03 13:15	0°♍18'48	
	6332 Jun 30 06:53	0°♎	
	6332 Aug 23 15:11	0°♏	
	6332 Oct 12 17:04	0°♐	
desc. node	6332 Oct 16 00:07	2°♐02'09	
	6332 Nov 29 01:03	0°♑	
evening set	6332 Dec 18 14:30	12°♑53'25	
max. Earth dist.	6333 Jan 04 20:58	24°♑31'34	2.54835 AU
	6333 Jan 12 20:55	0°♒	
conjunction	6333 Feb 04 22:00	16°♒04'26	-0°53'47
minimum elong	6333 Feb 04 20:36	16°♒01'58	0°53'44
	6333 Feb 24 09:04	0°♓	
morning rise	6333 Mar 29 14:27	24°♓29'01	
	6333 Apr 05 22:29	0°♈	
	6333 May 15 02:28	0°♉	
	6333 Jun 22 14:23	0°♊	
	6333 Jul 31 06:55	0°♋	
asc. node	6333 Sep 05 01:48	26°♋58'16	
	6333 Sep 09 04:39	0°♌	
	6333 Oct 21 16:49	0°♍	
	6333 Dec 08 16:18	0°♎	
retrograde	6334 Feb 25 22:14	27°♎53'10	
min. Earth dist.	6334 Apr 03 19:40	19°♎14'59	0.64774 AU
opposition	6334 Apr 07 04:25	17°♎54'17	4°13'27
greatest brilliancy	6334 Apr 06 16:41	18°♎06'01	-1.4m
direct	6334 May 16 09:14	8°♎40'20	
	6334 Jul 27 13:26	0°♏	
desc. node	6334 Sep 02 23:24	19°♏22'00	
	6334 Sep 21 17:20	0°♐	
	6334 Nov 09 20:23	0°♑	
	6334 Dec 25 01:42	0°♒	
evening set	6335 Feb 01 19:33	27°♒25'36	
	6335 Feb 05 08:15	0°♓	
max. Earth dist.	6335 Feb 18 08:00	9°♓34'27	2.41922 AU
	6335 Mar 17 09:40	0°♈	
conjunction	6335 Mar 31 09:32	10°♈46'34	-1°02'11
minimum elong	6335 Mar 31 11:10	10°♈49'44	1°02'11
	6335 Apr 25 00:38	0°♉	
	6335 Jun 02 01:36	0°♊	
morning rise	6335 Jun 07 21:27	4°♊35'30	
	6335 Jul 10 09:37	0°♋	
asc. node	6335 Jul 24 01:35	10°♋30'55	
	6335 Aug 18 21:28	0°♌	
	6335 Sep 29 09:50	0°♍	
	6335 Nov 12 22:35	0°♎	
	6336 Jan 01 15:38	0°♏	
	6336 Mar 14 02:52	0°♐	
retrograde	6336 Mar 31 05:40	1°♐41'48	
	6336 Apr 16 08:02	30°℞♏	
opposition	6336 May 10 11:55	22°♏01'43	2°20'47
greatest brilliancy	6336 May 10 13:13	22°♏00'26	-1.3m
min. Earth dist.	6336 May 10 23:12	21°♏50'30	0.68038 AU
direct	6336 Jun 20 13:59	12°♏09'49	
desc. node	6336 Jul 20 22:18	16°♏58'26	
	6336 Aug 23 16:36	0°♐	
	6336 Oct 18 06:14	0°♑	
	6336 Dec 04 03:14	0°♒	
	6337 Jan 15 18:21	0°♓	
	6337 Feb 24 17:26	0°♈	
evening set	6337 Apr 03 18:36	29°♈42'23	
	6337 Apr 04 03:31	0°♉	
	6337 May 12 01:08	0°♊	
asc. node	6337 Jun 10 00:28	22°♊45'01	
conjunction	6337 Jun 12 14:57	24°♊46'30	0°01'52
minimum elong	6337 Jun 12 14:46	24°♊46'09	0°01'49
behind sun begin	6337 Jun 11 09:05	23°♊48'29	
behind sun end	6337 Jun 13 20:27	25°♊43'45	
	6337 Jun 19 08:46	0°♋	
	6337 Jul 28 22:12	0°♌	
max. Earth dist.	6337 Aug 04 03:39	4°♌36'17	2.41703 AU
morning rise	6337 Aug 19 12:15	15°♌48'48	
	6337 Sep 08 09:20	0°♍	
	6337 Oct 22 05:40	0°♎	
	6337 Dec 07 23:56	0°♏	
	6338 Jan 28 05:15	0°♐	
	6338 Apr 05 09:00	0°♑	
retrograde	6338 May 05 23:30	4°♑53'24	
	6338 Jun 02 22:41	30°℞♐	
desc. node	6338 Jun 07 20:52	28°♐16'11	
opposition	6338 Jun 14 00:44	25°♐55'29	-0°13'26
greatest brilliancy	6338 Jun 14 01:33	25°♐54'41	-1.5m
min. Earth dist.	6338 Jun 18 06:34	24°♐16'26	0.64721 AU
direct	6338 Jul 25 12:20	15°♐53'01	
	6338 Sep 17 13:02	0°♑	
	6338 Nov 10 23:55	0°♒	
	6338 Dec 25 11:37	0°♓	
	6339 Feb 04 00:36	0°♈	
	6339 Mar 14 15:59	0°♉	
	6339 Apr 21 18:11	0°♊	
asc. node	6339 Apr 27 23:07	4°♊52'04	
	6339 May 30 08:39	0°♋	
evening set	6339 Jun 16 03:20	12°♋45'22	
	6339 Jul 09 07:09	0°♌	
conjunction	6339 Aug 16 13:48	27°♌30'30	0°59'49
minimum elong	6339 Aug 16 12:06	27°♌27'31	0°59'47
	6339 Aug 20 03:07	0°♍	
max. Earth dist.	6339 Sep 19 06:03	20°♍42'57	2.55105 AU
	6339 Oct 03 01:57	0°♎	
morning rise	6339 Oct 09 14:41	4°♎20'14	
	6339 Nov 18 03:15	0°♏	
	6340 Jan 05 07:37	0°♐	
	6340 Feb 25 13:06	0°♑	
desc. node	6340 Apr 24 19:28	29°♑39'04	
	6340 Apr 25 15:45	0°♒	
retrograde	6340 Jun 16 22:41	12°♒37'41	
opposition	6340 Jul 23 08:09	4°♒51'52	-3°27'01
greatest brilliancy	6340 Jul 24 05:48	4°♒31'58	-1.9m
min. Earth dist.	6340 Jul 30 23:08	2°♒04'13	0.55127 AU
	6340 Aug 06 00:20	30°℞♑	
direct	6340 Sep 01 03:09	25°♑28'14	
	6340 Sep 28 11:08	0°♒	
	6340 Nov 27 09:53	0°♓	
	6341 Jan 10 03:04	0°♈	
	6341 Feb 19 02:54	0°♉	
asc. node	6341 Mar 14 23:07	18°♉20'04	
	6341 Mar 30 02:36	0°♊	
	6341 May 08 12:41	0°♋	
	6341 Jun 18 06:53	0°♌	
	6341 Jul 30 21:20	0°♍	
evening set	6341 Aug 10 23:53	7°♍36'11	
	6341 Sep 13 09:45	0°♎	
conjunction	6341 Oct 01 00:39	11°♎33'52	1°04'40
minimum elong	6341 Oct 01 01:22	11°♎35'02	1°04'40

max. Earth dist.	6341 Oct 15 18:38	21°♎08'19	2.64210 AU
	6341 Oct 29 13:09	0°♏	
morning rise	6341 Nov 16 19:48	11°♏40'03	
	6341 Dec 15 19:56	0°♐	
	6342 Feb 01 22:41	0°♑	
desc. node	6342 Mar 12 18:45	23°♑45'23	
	6342 Mar 23 03:59	0°♒	
	6342 May 14 04:40	0°♓	
	6342 Jul 19 23:48	0°♈	
retrograde	6342 Aug 17 01:37	4°♈21'03	
	6342 Sep 13 03:30	30°℞♓	
opposition	6342 Sep 17 18:20	28°♓37'55	-6°15'39
greatest brilliancy	6342 Sep 19 11:33	28°♓06'33	-2.6m
min. Earth dist.	6342 Sep 25 07:10	26°♓21'01	0.41752 AU
direct	6342 Oct 21 22:59	21°♓51'14	
	6342 Nov 26 20:23	0°♈	
	6343 Jan 19 05:12	0°♉	
asc. node	6343 Jan 30 22:11	7°♉50'37	
	6343 Mar 03 16:39	0°♊	
	6343 Apr 14 20:36	0°♋	
	6343 May 27 16:05	0°♌	
	6343 Jul 10 20:47	0°♍	
	6343 Aug 25 12:46	0°♎	
evening set	6343 Sep 22 18:45	18°♎10'55	
	6343 Oct 11 07:07	0°♏	
conjunction	6343 Nov 07 22:51	17°♏34'52	0°40'13
minimum elong	6343 Nov 07 23:52	17°♏36'29	0°40'14
max. Earth dist.	6343 Nov 08 07:43	17°♏48'57	2.67914 AU
	6343 Nov 27 12:03	0°♐	
morning rise	6343 Dec 21 23:25	15°♐34'52	
	6344 Jan 13 12:25	0°♑	
desc. node	6344 Jan 28 17:09	9°♑46'10	
	6344 Feb 28 23:01	0°♒	
	6344 Apr 14 17:54	0°♓	
	6344 May 30 02:16	0°♈	
	6344 Jul 14 17:44	0°♉	
	6344 Sep 01 19:15	0°♊	
retrograde	6344 Nov 04 21:01	21°♊44'52	
min. Earth dist.	6344 Dec 01 16:30	17°♊21'07	0.37811 AU
opposition	6344 Dec 06 09:48	16°♊00'58	-0°50'45
greatest brilliancy	6344 Dec 06 07:07	16°♊02'52	-3.0m
asc. node	6344 Dec 17 20:49	13°♊02'51	
direct	6345 Jan 04 23:14	10°♊56'06	
	6345 Mar 07 15:46	0°♋	
	6345 Apr 29 13:21	0°♌	
	6345 Jun 17 07:39	0°♍	
	6345 Aug 04 12:52	0°♎	
	6345 Sep 21 16:37	0°♏	
evening set	6345 Oct 28 19:52	23°♏18'09	
	6345 Nov 08 09:59	0°♐	
max. Earth dist.	6345 Nov 29 20:57	13°♐40'40	2.66122 AU
conjunction	6345 Dec 12 15:35	21°♐53'52	0°01'38
minimum elong	6345 Dec 12 15:39	21°♐53'58	0°01'40
behind sun begin	6345 Dec 11 21:08	21°♐24'06	
behind sun end	6345 Dec 13 10:09	22°♐23'51	
desc. node	6345 Dec 15 15:08	23°♐49'32	
	6345 Dec 25 03:20	0°♑	
morning rise	6346 Jan 26 01:49	21°♑02'33	
	6346 Feb 08 10:33	0°♒	
	6346 Mar 24 03:44	0°♓	
	6346 May 05 08:52	0°♈	
	6346 Jun 15 08:39	0°♉	
	6346 Jul 25 18:02	0°♊	
	6346 Sep 04 18:38	0°♋	
	6346 Oct 19 08:38	0°♌	
asc. node	6346 Nov 04 21:11	9°♌40'17	
retrograde	6347 Jan 02 16:07	28°♌53'50	
min. Earth dist.	6347 Feb 01 00:41	22°♌55'02	0.49940 AU
greatest brilliancy	6347 Feb 07 18:11	20°♌26'05	-2.2m
opposition	6347 Feb 09 02:50	19°♌55'46	4°33'35
direct	6347 Mar 15 05:54	12°♌35'47	
	6347 May 15 19:47	0°♍	
	6347 Jul 12 06:24	0°♎	
	6347 Sep 01 18:51	0°♏	
	6347 Oct 20 21:27	0°♐	
desc. node	6347 Nov 02 13:56	7°♐57'42	
evening set	6347 Dec 04 10:51	28°♐23'18	
	6347 Dec 06 22:11	0°♑	
max. Earth dist.	6347 Dec 25 08:05	12°♑08'03	2.58978 AU
conjunction	6348 Jan 19 23:24	29°♑26'21	-0°40'11
minimum elong	6348 Jan 19 22:11	29°♑24'16	0°40'07
	6348 Jan 20 19:04	0°♒	
	6348 Mar 03 12:59	0°♓	
morning rise	6348 Mar 08 22:29	3°♓53'15	
	6348 Apr 13 10:37	0°♈	
	6348 May 22 23:12	0°♉	
	6348 Jun 30 18:47	0°♊	
	6348 Aug 08 18:34	0°♋	
	6348 Sep 18 02:27	0°♌	
asc. node	6348 Sep 21 20:20	2°♌41'52	
	6348 Oct 31 15:52	0°♍	
	6348 Dec 23 07:07	0°♎	
retrograde	6349 Feb 11 22:19	13°♎40'01	
min. Earth dist.	6349 Mar 18 22:52	5°♎39'19	0.61692 AU
opposition	6349 Mar 23 19:50	3°♎43'09	4°42'11
greatest brilliancy	6349 Mar 23 00:43	4°♎02'08	-1.6m
	6349 Apr 02 16:31	30°℞♍	
direct	6349 Apr 30 21:23	24°♍52'21	
	6349 Jun 01 03:56	0°♎	
	6349 Aug 08 03:11	0°♏	
desc. node	6349 Sep 19 13:15	23°♏50'01	
	6349 Sep 29 22:50	0°♐	
	6349 Nov 17 04:19	0°♑	
	6350 Jan 01 04:24	0°♒	
evening set	6350 Jan 13 20:10	8°♒47'33	
max. Earth dist.	6350 Jan 27 22:40	18°♒46'07	2.47186 AU
	6350 Feb 12 12:13	0°♓	
conjunction	6350 Mar 07 19:27	17°♓13'04	-1°05'44
minimum elong	6350 Mar 07 19:10	17°♓12'32	1°05'44
	6350 Mar 24 17:35	0°♈	
	6350 May 02 12:52	0°♉	
morning rise	6350 May 08 11:07	4°♉38'33	
greatest brilliancy	6350 May 20 07:54	13°♉57'33	1.2m
	6350 Jun 09 17:12	0°♊	
	6350 Jul 18 03:24	0°♋	
asc. node	6350 Aug 09 17:48	17°♋17'11	
	6350 Aug 26 17:07	0°♌	
	6350 Oct 07 10:06	0°♍	
	6350 Nov 21 16:02	0°♎	
	6351 Jan 13 12:38	0°♏	
retrograde	6351 Mar 18 23:41	19°♏03'56	
min. Earth dist.	6351 Apr 27 08:28	9°♏38'15	0.67532 AU
opposition	6351 Apr 28 09:16	9°♏13'30	3°09'49
greatest brilliancy	6351 Apr 28 06:48	9°♏15'58	-1.3m
	6351 May 30 11:43	30°℞♎	
direct	6351 Jun 07 21:39	29°♎33'28	
	6351 Jun 16 15:11	0°♏	
desc. node	6351 Aug 07 12:07	15°♏38'15	
	6351 Sep 05 21:25	0°♐	
	6351 Oct 27 19:30	0°♑	

	6351 Dec 12 20:02	0°♒	
	6352 Jan 24 06:11	0°♓	
	6352 Mar 04 05:21	0°♈	
evening set	6352 Mar 08 01:49	2°♈57'53	
	6352 Apr 11 16:34	0°♉	
conjunction	6352 May 13 11:50	25°♉09'51	-0°30'20
minimum elong	6352 May 13 14:44	25°♉15'35	0°30'20
	6352 May 19 14:32	0°♊	
max. Earth dist.	6352 Jun 11 21:35	18°♊19'59	2.37019 AU
asc. node	6352 Jun 26 16:44	29°♊51'14	
	6352 Jun 26 21:15	0°♋	
morning rise	6352 Jul 24 14:08	21°♋10'48	
	6352 Aug 05 08:46	0°♌	
	6352 Sep 15 18:24	0°♍	
	6352 Oct 29 17:26	0°♎	
	6352 Dec 16 03:41	0°♏	
	6353 Feb 08 05:59	0°♐	
retrograde	6353 Apr 21 14:28	21°♐57'29	
opposition	6353 May 31 06:39	12°♐40'21	0°50'55
greatest brilliancy	6353 May 31 09:01	12°♐38'01	-1.4m
min. Earth dist.	6353 Jun 03 01:12	11°♐34'55	0.66794 AU
desc. node	6353 Jun 24 11:15	4°♐34'23	
direct	6353 Jul 11 19:15	2°♐38'19	
	6353 Oct 01 12:05	0°♑	
	6353 Nov 20 08:59	0°♒	
	6354 Jan 02 20:22	0°♓	
	6354 Feb 12 01:34	0°♈	
	6354 Mar 22 13:35	0°♉	
greatest brilliancy	6354 Mar 26 04:42	2°♉51'50	1.2m
	6354 Apr 29 12:48	0°♊	
asc. node	6354 May 14 16:27	11°♊54'27	
evening set	6354 May 19 10:24	15°♊37'15	
	6354 Jun 06 23:21	0°♋	
	6354 Jul 16 16:56	0°♌	
conjunction	6354 Jul 24 23:49	6°♌05'40	0°44'31
minimum elong	6354 Jul 24 21:13	6°♌00'56	0°44'27
	6354 Aug 27 07:47	0°♍	
max. Earth dist.	6354 Sep 05 12:28	6°♍25'29	2.50201 AU
morning rise	6354 Sep 21 18:16	17°♍36'10	
	6354 Oct 10 03:39	0°♎	
	6354 Nov 25 07:55	0°♏	
	6355 Jan 13 06:17	0°♐	
	6355 Mar 08 05:06	0°♑	
desc. node	6355 May 12 10:19	25°♑16'33	
retrograde	6355 May 30 20:34	27°♑09'43	
opposition	6355 Jul 07 11:58	18°♑50'49	-2°07'43
greatest brilliancy	6355 Jul 07 23:06	18°♑40'17	-1.7m
min. Earth dist.	6355 Jul 13 21:46	16°♑25'23	0.59561 AU
direct	6355 Aug 17 06:54	9°♑02'56	
	6355 Oct 22 06:13	0°♒	
	6355 Dec 10 01:08	0°♓	
	6356 Jan 20 20:50	0°♈	
	6356 Feb 29 02:16	0°♉	
asc. node	6356 Mar 31 14:48	24°♉34'11	
	6356 Apr 07 14:09	0°♊	
	6356 May 16 14:01	0°♋	
	6356 Jun 25 22:23	0°♌	
evening set	6356 Jul 22 02:51	18°♌46'25	
	6356 Aug 07 03:40	0°♍	
conjunction	6356 Sep 14 10:30	26°♍02'39	1°07'28
minimum elong	6356 Sep 14 10:32	26°♍02'44	1°07'28
	6356 Sep 20 09:04	0°♎	
max. Earth dist.	6356 Oct 05 23:37	10°♎17'39	2.61268 AU
morning rise	6356 Nov 02 09:04	28°♎03'39	
	6356 Nov 05 09:37	0°♏	
	6356 Dec 22 21:26	0°♐	
	6357 Feb 09 20:09	0°♑	
desc. node	6357 Mar 29 08:44	27°♑47'08	
	6357 Apr 02 07:37	0°♒	
	6357 Jun 01 15:09	0°♓	
retrograde	6357 Jul 20 22:21	11°♓39'39	
opposition	6357 Aug 23 18:19	5°♓02'47	-5°29'12
greatest brilliancy	6357 Aug 25 09:48	4°♓29'39	-2.3m
min. Earth dist.	6357 Sep 01 09:53	2°♓09'44	0.46983 AU
	6357 Sep 08 14:01	30°♓♒	
direct	6357 Sep 29 18:45	26°♒56'16	
	6357 Oct 21 07:13	0°♓	
	6357 Dec 20 19:06	0°♈	
	6358 Feb 02 03:53	0°♉	
asc. node	6358 Feb 16 14:22	10°♉33'56	
	6358 Mar 14 19:36	0°♊	
	6358 Apr 24 09:59	0°♋	
	6358 Jun 05 03:28	0°♌	
	6358 Jul 18 13:01	0°♍	
	6358 Sep 01 15:42	0°♎	
evening set	6358 Sep 07 05:26	3°♎38'19	
	6358 Oct 18 02:22	0°♏	
conjunction	6358 Oct 24 19:03	4°♏16'37	0°51'58
minimum elong	6358 Oct 24 20:09	4°♏18'23	0°51'59
max. Earth dist.	6358 Oct 30 10:02	7°♏51'51	2.67127 AU
	6358 Dec 04 06:12	0°♐	
morning rise	6358 Dec 08 11:48	2°♐41'01	
	6359 Jan 20 13:53	0°♑	
desc. node	6359 Feb 14 07:13	15°♑41'51	
	6359 Mar 08 19:18	0°♒	
	6359 Apr 25 02:50	0°♓	
	6359 Jun 12 08:44	0°♈	
	6359 Aug 03 23:52	0°♉	
retrograde	6359 Oct 05 21:32	19°♉32'02	
opposition	6359 Nov 04 17:31	14°♉35'47	-4°19'17
greatest brilliancy	6359 Nov 05 01:36	14°♉30'27	-3.0m
min. Earth dist.	6359 Nov 05 15:13	14°♉21'28	0.36895 AU
direct	6359 Dec 04 10:57	9°♉37'25	
asc. node	6360 Jan 04 14:42	15°♉37'28	
	6360 Feb 04 20:05	0°♊	
	6360 Mar 25 18:51	0°♋	
	6360 May 11 02:05	0°♌	
	6360 Jun 26 07:25	0°♍	
	6360 Aug 12 05:35	0°♎	
	6360 Sep 28 17:01	0°♏	
evening set	6360 Oct 14 18:13	10°♏07'31	
	6360 Nov 15 03:46	0°♐	
max. Earth dist.	6360 Nov 21 02:01	3°♐46'10	2.67469 AU
conjunction	6360 Nov 28 18:21	8°♐39'56	0°17'32
minimum elong	6360 Nov 28 18:52	8°♐40'46	0°17'34
	6360 Dec 31 22:24	0°♑	
desc. node	6361 Jan 01 05:17	0°♑11'09	
morning rise	6361 Jan 11 15:36	6°♑58'16	
	6361 Feb 15 13:54	0°♒	
	6361 Mar 31 22:06	0°♓	
	6361 May 14 00:06	0°♈	
	6361 Jun 25 02:18	0°♉	
	6361 Aug 05 22:31	0°♊	
	6361 Sep 18 13:27	0°♋	
	6361 Nov 12 18:30	0°♌	
asc. node	6361 Nov 21 13:56	2°♌57'03	
retrograde	6361 Dec 13 19:23	6°♌20'15	
min. Earth dist.	6362 Jan 09 22:56	1°♌14'59	0.44505 AU
	6362 Jan 13 16:02	30°♑♋	

greatest brilliancy	6362 Jan 17 05:17	28°♋46'37	-2.5m
opposition	6362 Jan 18 07:54	28°♋23'46	3°23'30
direct	6362 Feb 19 14:00	21°♋56'08	
	6362 Mar 29 23:57	0°♌	
	6362 May 30 17:54	0°♍	
	6362 Jul 21 16:23	0°♎	
	6362 Sep 09 11:19	0°♏	
	6362 Oct 27 21:32	0°♐	
evening set	6362 Nov 19 23:06	14°♐37'46	
desc. node	6362 Nov 19 03:46	14°♐06'52	
	6362 Dec 13 17:58	0°♑	
max. Earth dist.	6362 Dec 14 20:48	0°♑43'48	2.62392 AU
conjunction	6363 Jan 04 09:48	14°♑16'51	-0°24'30
minimum elong	6363 Jan 04 09:02	14°♑15'33	0°24'26
	6363 Jan 27 17:44	0°♒	
morning rise	6363 Feb 19 22:12	15°♒59'23	
	6363 Mar 11 19:18	0°♓	
	6363 Apr 22 02:59	0°♈	
	6363 Jun 01 02:16	0°♉	
	6363 Jul 10 08:05	0°♊	
	6363 Aug 18 19:00	0°♋	
	6363 Sep 28 21:33	0°♌	
asc. node	6363 Oct 09 12:18	7°♌22'00	
	6363 Nov 13 16:53	0°♍	
retrograde	6364 Jan 29 00:41	28°♍05'33	
min. Earth dist.	6364 Mar 01 23:42	20°♍47'52	0.57709 AU
greatest brilliancy	6364 Mar 07 04:43	18°♍45'33	-1.7m
opposition	6364 Mar 08 07:09	18°♍19'39	4°57'29
direct	6364 Apr 14 00:09	9°♍58'01	
	6364 Jun 21 15:04	0°♎	
	6364 Aug 17 18:35	0°♏	
desc. node	6364 Oct 06 03:28	29°♏04'19	
	6364 Oct 07 15:58	0°♐	
	6364 Nov 24 07:10	0°♑	
evening set	6364 Dec 27 17:54	22°♑10'56	
	6365 Jan 08 04:48	0°♒	
max. Earth dist.	6365 Jan 12 11:41	2°♒57'21	2.52261 AU
conjunction	6365 Feb 15 09:54	26°♒55'33	-0°59'57
minimum elong	6365 Feb 15 08:40	26°♒53'19	0°59'55
	6365 Feb 19 15:53	0°♓	
	6365 Apr 01 02:48	0°♈	
morning rise	6365 Apr 11 19:48	8°♈08'30	
	6365 May 10 03:55	0°♉	
	6365 Jun 17 12:53	0°♊	
	6365 Jul 26 02:24	0°♋	
asc. node	6365 Aug 26 11:27	23°♋48'32	
	6365 Sep 03 19:46	0°♌	
	6365 Oct 15 21:32	0°♍	
	6365 Dec 01 10:48	0°♎	
	6366 Jan 31 16:58	0°♏	
retrograde	6366 Mar 05 15:46	6°♏04'31	
	6366 Apr 05 02:45	30°℞♎	
min. Earth dist.	6366 Apr 12 12:00	27°♎08'15	0.66031 AU
opposition	6366 Apr 15 01:01	26°♎07'16	3°52'22
greatest brilliancy	6366 Apr 14 16:59	26°♎15'18	-1.4m
direct	6366 May 24 18:57	16°♎42'50	
	6366 Jul 17 23:06	0°♏	
desc. node	6366 Aug 24 03:06	17°♏38'50	
	6366 Sep 15 18:58	0°♐	
	6366 Nov 04 18:07	0°♑	
	6366 Dec 20 05:54	0°♒	
	6367 Jan 31 13:52	0°♓	
evening set	6367 Feb 13 17:23	9°♓41'33	
max. Earth dist.	6367 Mar 08 08:07	26°♓44'06	2.39153 AU
	6367 Mar 12 14:37	0°♈	
conjunction	6367 Apr 15 10:34	26°♈16'29	-0°54'27
minimum elong	6367 Apr 15 13:23	26°♈21'59	0°54'26
	6367 Apr 20 04:20	0°♉	
	6367 May 28 04:02	0°♊	
morning rise	6367 Jun 25 17:05	22°♊25'16	
	6367 Jul 05 11:07	0°♋	
asc. node	6367 Jul 14 09:17	6°♋53'03	
	6367 Aug 13 22:07	0°♌	
	6367 Sep 24 08:02	0°♍	
	6367 Nov 07 13:13	0°♎	
	6367 Dec 26 02:34	0°♏	
	6368 Feb 24 13:40	0°♐	
retrograde	6368 Apr 07 21:13	9°♐21'00	
opposition	6368 May 17 23:50	29°♏48'04	1°49'18
	6368 May 17 11:47	30°℞♏	
greatest brilliancy	6368 May 18 02:13	29°♏45'42	-1.3m
min. Earth dist.	6368 May 19 06:39	29°♏17'33	0.67886 AU
direct	6368 Jun 28 07:27	19°♏51'25	
desc. node	6368 Jul 11 01:49	20°♏47'30	
	6368 Aug 13 03:38	0°♐	
	6368 Oct 12 03:28	0°♑	
	6368 Nov 28 21:10	0°♒	
	6369 Jan 10 18:53	0°♓	
	6369 Feb 19 19:58	0°♈	
	6369 Mar 30 06:28	0°♉	
evening set	6369 Apr 20 00:54	16°♉26'17	
	6369 May 07 04:01	0°♊	
asc. node	6369 May 31 08:18	19°♊00'28	
	6369 Jun 14 11:50	0°♋	
conjunction	6369 Jun 28 21:58	11°♋04'14	0°19'40
minimum elong	6369 Jun 28 20:09	11°♋00'46	0°19'37
	6369 Jul 24 01:47	0°♌	
max. Earth dist.	6369 Aug 18 15:55	18°♌41'40	2.44790 AU
morning rise	6369 Sep 01 11:44	28°♌33'02	
	6369 Sep 03 13:01	0°♍	
	6369 Oct 17 07:48	0°♎	
	6369 Dec 02 18:32	0°♏	
	6370 Jan 21 21:20	0°♐	
	6370 Mar 22 06:31	0°♑	
retrograde	6370 May 14 14:58	13°♑02'37	
desc. node	6370 May 29 00:30	11°♑43'43	
opposition	6370 Jun 22 05:53	4°♑17'05	-0°53'44
greatest brilliancy	6370 Jun 22 09:31	4°♑13'34	-1.5m
min. Earth dist.	6370 Jun 27 06:29	2°♑20'46	0.63164 AU
	6370 Jul 03 14:53	30°℞♐	
direct	6370 Aug 02 14:08	24°♐17'27	
	6370 Sep 03 18:50	0°♑	
	6370 Nov 04 05:19	0°♒	
	6370 Dec 19 19:19	0°♓	
	6371 Jan 29 17:13	0°♈	
	6371 Mar 09 12:47	0°♉	
	6371 Apr 16 17:30	0°♊	
asc. node	6371 Apr 18 08:49	1°♊17'02	
	6371 May 25 10:04	0°♋	
evening set	6371 Jun 30 09:31	27°♋01'18	
	6371 Jul 04 10:46	0°♌	
	6371 Aug 15 08:31	0°♍	
conjunction	6371 Aug 28 01:44	8°♍49'07	1°04'39
minimum elong	6371 Aug 28 00:43	8°♍47'22	1°04'38
max. Earth dist.	6371 Sep 26 06:35	28°♍36'57	2.57503 AU
	6371 Sep 28 08:23	0°♎	
morning rise	6371 Oct 19 00:13	13°♎37'59	
	6371 Nov 13 07:56	0°♏	
	6371 Dec 31 04:19	0°♐	
	6372 Feb 19 08:30	0°♑	

desc. node	6372 Apr 14 23:13	0°♒02'40	
	6372 Apr 14 21:01	0°♒	
retrograde	6372 Jun 28 06:51	22°♒43'40	
opposition	6372 Aug 02 21:10	15°♒19'46	-4°13'25
greatest brilliancy	6372 Aug 04 01:37	14°♒54'17	-2.0m
min. Earth dist.	6372 Aug 11 01:50	12°♒24'26	0.52351 AU
direct	6372 Sep 10 21:33	6°♒17'27	
	6372 Nov 18 06:17	0°♓	
	6373 Jan 03 06:40	0°♈	
	6373 Feb 13 01:23	0°♉	
asc. node	6373 Mar 05 08:01	15°♉24'09	
	6373 Mar 24 11:22	0°♊	
	6373 May 03 04:51	0°♋	
	6373 Jun 13 05:19	0°♌	
	6373 Jul 26 00:41	0°♍	
evening set	6373 Aug 21 07:42	17°♍47'59	
	6373 Sep 08 16:46	0°♎	
conjunction	6373 Oct 09 22:15	20°♎21'59	1°01'00
minimum elong	6373 Oct 09 23:13	20°♎23'32	1°01'00
max. Earth dist.	6373 Oct 21 06:54	27°♎41'04	2.65467 AU
	6373 Oct 24 21:31	0°♏	
morning rise	6373 Nov 24 19:54	19°♏42'42	
	6373 Dec 11 02:16	0°♐	
	6374 Jan 27 20:44	0°♑	
desc. node	6374 Mar 02 21:26	21°♑10'09	
	6374 Mar 17 05:03	0°♒	
	6374 May 05 23:35	0°♓	
	6374 Jun 29 19:24	0°♈	
retrograde	6374 Sep 03 02:34	19°♈35'27	
opposition	6374 Oct 03 20:44	14°♈19'16	-6°08'52
greatest brilliancy	6374 Oct 05 06:18	13°♈55'14	-2.8m
min. Earth dist.	6374 Oct 09 17:20	12°♈39'16	0.39337 AU
direct	6374 Nov 05 04:48	8°♈20'30	
	6375 Jan 07 06:28	0°♉	
asc. node	6375 Jan 21 06:28	8°♉19'40	
	6375 Feb 23 13:21	0°♊	
	6375 Apr 08 05:08	0°♋	
	6375 May 21 21:16	0°♌	
	6375 Jul 05 15:08	0°♍	
	6375 Aug 20 15:50	0°♎	
evening set	6375 Oct 01 07:14	26°♎37'03	
	6375 Oct 06 15:01	0°♏	
max. Earth dist.	6375 Nov 13 10:11	23°♏59'03	2.67981 AU
conjunction	6375 Nov 15 22:23	25°♏34'37	0°32'19
minimum elong	6375 Nov 15 23:16	25°♏36'01	0°32'21
	6375 Nov 22 21:24	0°♐	
morning rise	6375 Dec 29 18:50	23°♐33'34	
	6376 Jan 08 19:13	0°♑	
desc. node	6376 Jan 18 19:50	6°♑28'22	
	6376 Feb 23 22:07	0°♒	
	6376 Apr 09 02:56	0°♓	
	6376 May 23 11:41	0°♈	
	6376 Jul 06 10:22	0°♉	
	6376 Aug 20 09:24	0°♊	
	6376 Oct 12 17:24	0°♋	
retrograde	6376 Nov 20 05:31	9°♋17'09	
asc. node	6376 Dec 08 06:48	7°♋01'34	
min. Earth dist.	6376 Dec 16 07:55	4°♋50'54	0.39666 AU
opposition	6376 Dec 23 04:28	2°♋46'42	1°02'31
greatest brilliancy	6376 Dec 22 20:56	2°♋52'24	-2.8m
	6377 Jan 02 00:14	30°℞♊	
direct	6377 Jan 22 10:37	27°♊16'42	
	6377 Feb 12 11:21	0°♋	
	6377 Apr 20 18:39	0°♌	
	6377 Jun 10 23:23	0°♍	
	6377 Jul 30 04:36	0°♎	
	6377 Sep 16 19:58	0°♏	
	6377 Nov 03 18:41	0°♐	
evening set	6377 Nov 05 20:09	1°♐18'15	
max. Earth dist.	6377 Dec 05 04:06	20°♐02'13	2.65005 AU
desc. node	6377 Dec 05 18:36	20°♐25'36	
conjunction	6377 Dec 20 18:17	0°♑08'34	-0°08'02
minimum elong	6377 Dec 20 18:02	0°♑08'10	0°08'00
behind sun begin	6377 Dec 20 01:30	29°♐41'14	
behind sun end	6377 Dec 21 10:34	0°♑35'06	
	6377 Dec 20 13:01	0°♑	
morning rise	6378 Feb 03 17:58	0°♒00'59	
	6378 Feb 03 17:23	0°♒	
	6378 Mar 19 04:43	0°♓	
	6378 Apr 30 01:25	0°♈	
	6378 Jun 09 15:21	0°♉	
	6378 Jul 19 12:44	0°♊	
	6378 Aug 28 19:12	0°♋	
	6378 Oct 10 12:20	0°♌	
asc. node	6378 Oct 26 05:50	10°♌06'00	
	6378 Dec 01 22:21	0°♍	
retrograde	6379 Jan 12 17:25	10°♍29'17	
min. Earth dist.	6379 Feb 12 09:51	4°♍01'02	0.52878 AU
opposition	6379 Feb 19 23:22	1°♍08'43	4°51'41
greatest brilliancy	6379 Feb 18 15:29	1°♍39'04	-2.0m
	6379 Feb 23 00:44	30°℞♌	
direct	6379 Mar 27 01:38	23°♌24'21	
	6379 May 01 06:47	0°♍	
	6379 Jul 05 09:24	0°♎	
	6379 Aug 27 09:16	0°♏	
	6379 Oct 16 01:07	0°♐	
desc. node	6379 Oct 23 17:46	4°♐47'05	
	6379 Dec 02 06:56	0°♑	
evening set	6379 Dec 12 23:14	6°♑59'56	
max. Earth dist.	6379 Dec 31 18:01	19°♑30'45	2.56778 AU
	6380 Jan 16 04:17	0°♒	
conjunction	6380 Jan 29 09:11	9°♒07'34	-0°48'24
minimum elong	6380 Jan 29 07:49	9°♒05'12	0°48'21
	6380 Feb 27 20:04	0°♓	
morning rise	6380 Mar 20 05:38	15°♓36'11	
	6380 Apr 08 13:45	0°♈	
	6380 May 17 21:54	0°♉	
	6380 Jun 25 13:00	0°♊	
	6380 Aug 03 07:50	0°♋	
asc. node	6380 Sep 12 03:17	29°♋50'50	
	6380 Sep 12 08:18	0°♌	
	6380 Oct 25 03:13	0°♍	
	6380 Dec 13 08:58	0°♎	
retrograde	6381 Feb 20 00:08	22°♎24'25	
min. Earth dist.	6381 Mar 28 02:34	14°♎02'31	0.63527 AU
opposition	6381 Apr 01 03:54	12°♎25'32	4°26'59
greatest brilliancy	6381 Mar 31 12:58	12°♎40'24	-1.5m
direct	6381 May 09 21:52	3°♎21'17	
	6381 Jul 31 21:07	0°♏	
desc. node	6381 Sep 09 17:03	21°♏26'11	
	6381 Sep 24 12:04	0°♐	
	6381 Nov 12 06:56	0°♑	
	6381 Dec 27 11:20	0°♒	
evening set	6382 Jan 24 06:55	19°♒30'11	
	6382 Feb 07 19:49	0°♓	
max. Earth dist.	6382 Feb 07 20:26	0°♓01'07	2.44284 AU
	6382 Mar 19 23:52	0°♈	
conjunction	6382 Mar 20 15:12	0°♈29'15	-1°05'09
minimum elong	6382 Mar 20 15:55	0°♈30'36	1°05'09

	6382 Apr 27 17:17	0°♉	
morning rise	6382 May 25 04:33	21°♉37'14	
	6382 Jun 04 19:37	0°♊	
	6382 Jul 13 03:49	0°♋	
asc. node	6382 Jul 31 02:49	13°♋47'36	
	6382 Aug 21 15:16	0°♌	
	6382 Oct 02 03:35	0°♍	
	6382 Nov 15 20:18	0°♎	
	6383 Jan 05 10:36	0°♏	
retrograde	6383 Mar 26 13:24	26°♏49'49	
opposition	6383 May 05 22:18	17°♏04'35	2°41'50
greatest brilliancy	6383 May 05 22:10	17°♏04'43	-1.3m
min. Earth dist.	6383 May 05 17:16	17°♏09'36	0.67945 AU
direct	6383 Jun 15 19:36	7°♏17'34	
desc. node	6383 Jul 28 15:43	16°♏12'10	
	6383 Aug 29 08:09	0°♐	
	6383 Oct 22 05:42	0°♑	
	6383 Dec 07 19:05	0°♒	
	6384 Jan 19 09:29	0°♓	
	6384 Feb 28 09:34	0°♈	
evening set	6384 Mar 22 16:25	18°♈04'01	
	6384 Apr 06 20:45	0°♉	
	6384 May 14 18:28	0°♊	
conjunction	6384 May 30 11:53	12°♊24'05	-0°12'26
minimum elong	6384 May 30 13:13	12°♊26'42	0°12'27
behind sun begin	6384 May 29 17:42	11°♊48'21	
behind sun end	6384 May 31 08:45	13°♊05'03	
asc. node	6384 Jun 17 02:15	26°♊09'39	
	6384 Jun 22 01:01	0°♋	
max. Earth dist.	6384 Jul 19 17:23	21°♋09'53	2.39328 AU
	6384 Jul 31 12:30	0°♌	
morning rise	6384 Aug 08 17:05	6°♌03'52	
	6384 Sep 10 21:18	0°♍	
	6384 Oct 24 16:44	0°♎	
	6384 Dec 10 14:43	0°♏	
	6385 Jan 31 16:49	0°♐	
retrograde	6385 Apr 29 16:56	29°♐47'58	
opposition	6385 Jun 08 01:46	20°♐40'48	0°14'01
greatest brilliancy	6385 Jun 08 02:40	20°♐39'54	-1.4m
min. Earth dist.	6385 Jun 11 15:43	19°♐16'48	0.65779 AU
desc. node	6385 Jun 14 14:25	18°♐08'41	
direct	6385 Jul 19 15:01	10°♐37'51	
	6385 Sep 23 05:11	0°♑	
	6385 Nov 14 10:41	0°♒	
	6385 Dec 28 12:44	0°♓	
	6386 Feb 06 22:58	0°♈	
	6386 Mar 17 13:13	0°♉	
	6386 Apr 24 13:50	0°♊	
asc. node	6386 May 05 00:44	8°♊12'55	
	6386 Jun 02 01:42	0°♋	
evening set	6386 Jun 04 09:00	1°♋46'10	
	6386 Jul 11 20:55	0°♌	
conjunction	6386 Aug 07 04:00	19°♌06'07	0°54'26
minimum elong	6386 Aug 07 01:50	19°♌02'13	0°54'22
	6386 Aug 22 13:10	0°♍	
max. Earth dist.	6386 Sep 13 17:39	15°♍22'22	2.52995 AU
morning rise	6386 Oct 02 03:55	27°♍50'54	
	6386 Oct 05 09:09	0°♎	
	6386 Nov 20 10:00	0°♏	
	6387 Jan 07 19:52	0°♐	
	6387 Feb 28 22:41	0°♑	
desc. node	6387 May 02 13:12	28°♑56'27	
	6387 May 05 17:57	0°♒	
retrograde	6387 Jun 09 20:10	6°♒15'52	
	6387 Jul 12 00:31	30°℞♑	
opposition	6387 Jul 16 20:23	28°♑14'11	-2°52'57
greatest brilliancy	6387 Jul 17 13:09	27°♑58'33	-1.8m
min. Earth dist.	6387 Jul 23 23:18	25°♑35'14	0.57220 AU
direct	6387 Aug 26 04:03	18°♑37'54	
	6387 Oct 10 20:47	0°♒	
	6387 Dec 03 02:29	0°♓	
	6388 Jan 14 21:42	0°♈	
	6388 Feb 23 12:54	0°♉	
asc. node	6388 Mar 22 00:13	21°♉16'23	
	6388 Apr 02 06:37	0°♊	
	6388 May 11 10:51	0°♋	
	6388 Jun 20 23:16	0°♌	
evening set	6388 Aug 02 16:30	0°♍14'34	
	6388 Aug 02 08:04	0°♍	
	6388 Sep 15 16:02	0°♎	
conjunction	6388 Sep 24 01:40	5°♎33'02	1°06'25
minimum elong	6388 Sep 24 02:09	5°♎33'49	1°06'25
max. Earth dist.	6388 Oct 11 19:44	17°♎09'40	2.62995 AU
	6388 Oct 31 17:00	0°♏	
morning rise	6388 Nov 10 17:42	6°♏24'58	
	6388 Dec 18 01:05	0°♐	
	6389 Feb 04 11:05	0°♑	
desc. node	6389 Mar 19 12:14	25°♑54'18	
	6389 Mar 26 11:45	0°♒	
	6389 May 19 22:58	0°♓	
retrograde	6389 Aug 04 16:03	24°♓25'38	
opposition	6389 Sep 06 07:15	18°♓18'17	-6°01'33
greatest brilliancy	6389 Sep 08 01:45	17°♓44'22	-2.5m
min. Earth dist.	6389 Sep 14 13:56	15°♓40'31	0.44014 AU
direct	6389 Oct 11 21:07	10°♓53'24	
	6389 Dec 09 05:22	0°♈	
	6390 Jan 25 05:42	0°♉	
asc. node	6390 Feb 06 23:45	8°♉57'44	
	6390 Mar 08 04:24	0°♊	
	6390 Apr 18 12:19	0°♋	
	6390 May 30 17:54	0°♌	
	6390 Jul 13 12:12	0°♍	
	6390 Aug 27 20:56	0°♎	
evening set	6390 Sep 16 05:24	12°♎32'17	
	6390 Oct 13 10:57	0°♏	
conjunction	6390 Nov 01 22:43	12°♏24'53	0°45'23
minimum elong	6390 Nov 01 23:49	12°♏26'36	0°45'24
max. Earth dist.	6390 Nov 04 14:11	14°♏05'46	2.67668 AU
	6390 Nov 29 15:08	0°♐	
morning rise	6390 Dec 16 05:08	10°♐32'08	
	6391 Jan 15 18:34	0°♑	
desc. node	6391 Feb 04 10:35	12°♑34'54	
	6391 Mar 03 13:02	0°♒	
	6391 Apr 18 22:38	0°♓	
	6391 Jun 04 08:12	0°♈	
	6391 Jul 22 01:23	0°♉	
	6391 Sep 16 20:19	0°♊	
retrograde	6391 Oct 23 19:44	8°♊10'49	
min. Earth dist.	6391 Nov 20 23:24	3°♊35'17	0.36963 AU
opposition	6391 Nov 23 08:48	2°♊56'24	-2°25'25
greatest brilliancy	6391 Nov 23 06:35	2°♊57'54	-3.0m
	6391 Dec 05 04:13	30°℞♉	
direct	6391 Dec 22 17:59	28°♉02'32	
asc. node	6391 Dec 25 22:17	28°♉06'38	
	6392 Jan 09 02:32	0°♊	
	6392 Mar 15 23:26	0°♋	
	6392 May 04 02:26	0°♌	
	6392 Jun 20 13:23	0°♍	
	6392 Aug 07 03:05	0°♎	
	6392 Sep 23 22:49	0°♏	

evening set	6392 Oct 22 19:44	18°♏09'11	
	6392 Nov 10 13:20	0°♐	
max. Earth dist.	6392 Nov 26 05:13	9°♐58'12	2.66833 AU
conjunction	6392 Dec 06 15:55	16°♐39'31	0°08'22
minimum elong	6392 Dec 06 16:10	16°♐39'56	0°08'23
behind sun begin	6392 Dec 06 00:08	16°♐14'13	
behind sun end	6392 Dec 07 08:12	17°♐05'40	
desc. node	6392 Dec 22 08:49	26°♐47'13	
	6392 Dec 27 07:43	0°♑	
morning rise	6393 Jan 19 18:40	15°♑21'20	
	6393 Feb 10 19:12	0°♒	
	6393 Mar 26 19:37	0°♓	
	6393 May 08 09:57	0°♈	
	6393 Jun 18 20:41	0°♉	
	6393 Jul 29 18:51	0°♊	
	6393 Sep 09 14:53	0°♋	
	6393 Oct 26 12:46	0°♌	
asc. node	6393 Nov 11 22:25	8°♌29'27	
retrograde	6393 Dec 25 10:32	20°♌04'28	
min. Earth dist.	6394 Jan 22 18:41	14°♌30'01	0.47499 AU
greatest brilliancy	6394 Jan 29 19:34	11°♌58'49	-2.3m
opposition	6394 Jan 31 03:16	11°♌30'13	4°11'17
direct	6394 Mar 05 09:55	4°♌32'32	
	6394 May 22 00:52	0°♍	
	6394 Jul 15 14:51	0°♎	
	6394 Sep 04 07:54	0°♏	
	6394 Oct 23 03:39	0°♐	
desc. node	6394 Nov 09 07:43	10°♐49'12	
evening set	6394 Nov 28 04:06	22°♐53'06	
	6394 Dec 09 03:19	0°♑	
max. Earth dist.	6394 Dec 20 17:49	7°♑36'41	2.60608 AU
conjunction	6395 Jan 13 03:02	23°♑13'21	-0°33'45
minimum elong	6395 Jan 13 01:59	23°♑11'34	0°33'43
	6395 Jan 23 02:26	0°♒	
morning rise	6395 Mar 01 20:37	26°♒18'43	
	6395 Mar 07 00:48	0°♓	
	6395 Apr 17 03:37	0°♈	
	6395 May 26 21:20	0°♉	
	6395 Jul 04 21:22	0°♊	
	6395 Aug 13 00:55	0°♋	
	6395 Sep 22 14:20	0°♌	
asc. node	6395 Sep 29 21:54	5°♌12'18	
	6395 Nov 05 18:53	0°♍	
	6396 Jan 01 13:52	0°♎	
retrograde	6396 Feb 06 15:51	7°♎38'36	
	6396 Mar 11 15:41	30°℞♍	
min. Earth dist.	6396 Mar 11 18:52	29°♍56'53	0.60017 AU
greatest brilliancy	6396 Mar 16 09:38	28°♍07'34	-1.6m
opposition	6396 Mar 17 08:08	27°♍45'22	4°50'56
direct	6396 Apr 23 20:23	19°♍06'49	
	6396 Jun 10 13:58	0°♎	
	6396 Aug 11 13:02	0°♏	
desc. node	6396 Sep 26 06:56	26°♏15'35	
	6396 Oct 02 12:23	0°♐	
	6396 Nov 19 12:47	0°♑	
	6397 Jan 03 13:02	0°♒	
evening set	6397 Jan 06 06:10	1°♒52'06	
max. Earth dist.	6397 Jan 20 18:32	11°♒58'39	2.49515 AU
	6397 Feb 14 23:34	0°♓	
conjunction	6397 Feb 26 14:17	8°♓29'44	-1°04'12
minimum elong	6397 Feb 26 13:28	8°♓28'12	1°04'10
	6397 Mar 27 08:11	0°♈	
morning rise	6397 Apr 26 06:35	22°♈59'55	
	6397 May 05 06:29	0°♉	
	6397 Jun 12 12:54	0°♊	
	6397 Jul 20 23:55	0°♋	
asc. node	6397 Aug 16 19:30	20°♋27'35	
	6397 Aug 29 13:58	0°♌	
	6397 Oct 10 08:33	0°♍	
	6397 Nov 24 22:50	0°♎	
	6398 Jan 18 21:25	0°♏	
retrograde	6398 Mar 13 07:14	14°♏03'28	
min. Earth dist.	6398 Apr 21 00:35	4°♏50'38	0.66985 AU
opposition	6398 Apr 22 17:49	4°♏09'29	3°28'25
greatest brilliancy	6398 Apr 22 13:05	4°♏14'13	-1.3m
	6398 May 03 15:26	30°℞♎	
direct	6398 Jun 01 23:11	24°♎35'58	
	6398 Jul 04 09:16	0°♏	
desc. node	6398 Aug 14 05:54	16°♏30'37	
	6398 Sep 09 10:33	0°♐	
	6398 Oct 30 12:42	0°♑	
	6398 Dec 15 09:07	0°♒	
	6399 Jan 26 19:48	0°♓	
evening set	6399 Feb 26 11:14	22°♓50'07	
	6399 Mar 07 20:34	0°♈	
max. Earth dist.	6399 Apr 09 13:41	25°♈25'26	2.37052 AU
	6399 Apr 15 09:18	0°♉	
conjunction	6399 May 01 10:14	12°♉39'57	-0°42'19
minimum elong	6399 May 01 13:32	12°♉46'29	0°42'18
	6399 May 23 07:57	0°♊	
	6399 Jun 30 14:07	0°♋	
asc. node	6399 Jul 04 18:18	3°♋13'49	
morning rise	6399 Jul 12 21:49	9°♋30'03	
	6399 Aug 09 00:13	0°♌	
	6399 Sep 19 08:25	0°♍	
	6399 Nov 02 07:43	0°♎	
	6399 Dec 20 01:25	0°♏	
	6400 Feb 13 21:36	0°♐	
retrograde	6400 Apr 15 16:00	17°♐02'38	
opposition	6400 May 25 13:55	7°♐37'55	1°15'48
greatest brilliancy	6400 May 25 16:34	7°♐35'18	-1.3m
min. Earth dist.	6400 May 27 16:19	6°♐48'13	0.67408 AU
	6400 Jun 16 19:20	30°℞♏	
desc. node	6400 Jul 01 04:56	27°♏46'40	
direct	6400 Jul 06 01:34	27°♏37'54	
	6400 Jul 26 15:47	0°♐	
	6400 Oct 05 11:04	0°♑	
	6400 Nov 23 09:49	0°♒	
	6401 Jan 05 16:41	0°♓	
	6401 Feb 14 21:03	0°♈	
	6401 Mar 25 08:52	0°♉	
	6401 May 02 07:18	0°♊	
evening set	6401 May 06 14:12	3°♊22'59	
asc. node	6401 May 21 18:18	15°♊18'19	
	6401 Jun 09 15:53	0°♋	
conjunction	6401 Jul 14 00:53	26°♋06'16	0°34'58
minimum elong	6401 Jul 13 22:19	26°♋01'28	0°34'54
	6401 Jul 19 06:38	0°♌	
	6401 Aug 29 18:25	0°♍	
max. Earth dist.	6401 Aug 29 12:23	29°♌49'22	2.47819 AU
morning rise	6401 Sep 13 07:27	10°♍09'27	
	6401 Oct 12 12:00	0°♎	
	6401 Nov 27 17:09	0°♏	
	6402 Jan 16 00:21	0°♐	
	6402 Mar 12 14:06	0°♑	
desc. node	6402 May 19 04:19	21°♑20'11	
retrograde	6402 May 23 15:42	21°♑27'24	
opposition	6402 Jun 30 18:52	12°♑55'48	-1°35'54
greatest brilliancy	6402 Jul 01 02:22	12°♑48'37	-1.6m

min. Earth dist.	6402 Jul 06 14:16	10°♍42'46	0.61284 AU
direct	6402 Aug 10 21:18	3°♍01'32	
	6402 Oct 27 12:44	0°♒	
	6402 Dec 13 18:14	0°♓	
	6403 Jan 24 04:27	0°♈	
	6403 Mar 04 05:32	0°♉	
asc. node	6403 Apr 08 16:30	27°♉44'21	
	6403 Apr 11 13:58	0°♊	
	6403 May 20 09:44	0°♋	
	6403 Jun 29 13:29	0°♌	
evening set	6403 Jul 13 15:14	10°♌12'24	
	6403 Aug 10 14:05	0°♍	
conjunction	6403 Sep 07 18:12	19°♍20'13	1°07'02
minimum elong	6403 Sep 07 17:50	19°♍19'35	1°07'02
	6403 Sep 23 15:32	0°♎	
max. Earth dist.	6403 Oct 02 15:50	5°♎58'31	2.59684 AU
morning rise	6403 Oct 27 21:52	22°♎28'31	
	6403 Nov 08 14:21	0°♏	
	6403 Dec 26 04:35	0°♐	
	6404 Feb 13 13:37	0°♑	
desc. node	6404 Apr 05 02:43	29°♑19'03	
	6404 Apr 06 09:19	0°♒	
	6404 Jun 15 03:05	0°♓	
retrograde	6404 Jul 10 13:56	3°♓32'26	
	6404 Aug 03 13:04	30°R♒	
opposition	6404 Aug 14 06:00	26°♒33'24	-4°57'59
greatest brilliancy	6404 Aug 15 17:15	26°♒02'51	-2.1m
min. Earth dist.	6404 Aug 22 20:08	23°♒35'39	0.49417 AU
direct	6404 Sep 21 07:03	17°♒58'39	
	6404 Nov 05 17:40	0°♓	
	6404 Dec 26 13:15	0°♈	
	6405 Feb 06 12:48	0°♉	
asc. node	6405 Feb 23 15:44	12°♉46'28	
	6405 Mar 18 13:00	0°♊	
	6405 Apr 27 16:12	0°♋	
	6405 Jun 08 00:15	0°♌	
	6405 Jul 21 01:59	0°♍	
evening set	6405 Aug 31 03:26	27°♍30'03	
	6405 Sep 03 22:37	0°♎	
conjunction	6405 Oct 18 12:29	28°♎53'45	0°56'06
minimum elong	6405 Oct 18 13:33	28°♎55'29	0°56'07
	6405 Oct 20 05:49	0°♏	
max. Earth dist.	6405 Oct 26 14:24	4°♏04'08	2.66498 AU
morning rise	6405 Dec 02 16:22	27°♏38'50	
	6405 Dec 06 09:33	0°♐	
	6406 Jan 22 21:26	0°♑	
desc. node	6406 Feb 21 00:56	18°♑21'38	
	6406 Mar 11 13:38	0°♒	
	6406 Apr 28 19:19	0°♓	
	6406 Jun 18 02:42	0°♈	
	6406 Aug 18 20:39	0°♉	
retrograde	6406 Sep 21 07:56	6°♉19'47	
opposition	6406 Oct 21 07:48	1°♉21'33	-5°23'29
greatest brilliancy	6406 Oct 22 04:01	1°♉07'56	-2.9m
min. Earth dist.	6406 Oct 24 17:59	0°♉26'22	0.37615 AU
	6406 Oct 26 09:52	30°R♈	
direct	6406 Nov 20 22:56	26°♈03'06	
	6406 Dec 15 16:35	0°♉	
asc. node	6407 Jan 11 16:17	11°♉12'33	
	6407 Feb 13 15:24	0°♊	
	6407 Mar 31 21:17	0°♋	
	6407 May 15 18:27	0°♌	
	6407 Jun 30 05:23	0°♍	
	6407 Aug 15 16:24	0°♎	
	6407 Oct 01 21:43	0°♏	
evening set	6407 Oct 09 15:21	4°♏53'37	
	6407 Nov 18 06:31	0°♐	
max. Earth dist.	6407 Nov 18 12:49	0°♐10'01	2.67812 AU
conjunction	6407 Nov 23 20:33	3°♐33'06	0°23'50
minimum elong	6407 Nov 23 21:14	3°♐34'12	0°23'52
	6408 Jan 04 02:47	0°♑	
morning rise	6408 Jan 06 15:51	1°♑38'44	
desc. node	6408 Jan 08 23:03	3°♑08'06	
	6408 Feb 18 23:43	0°♒	
	6408 Apr 03 17:03	0°♓	
	6408 May 17 07:54	0°♈	
	6408 Jun 29 03:11	0°♉	
	6408 Aug 11 00:21	0°♊	
	6408 Sep 25 22:27	0°♋	
asc. node	6408 Nov 28 15:46	25°♋20'48	
retrograde	6408 Dec 04 01:54	25°♋33'39	
min. Earth dist.	6408 Dec 30 12:20	20°♋48'56	0.42185 AU
opposition	6409 Jan 07 11:57	18°♋13'35	2°32'58
greatest brilliancy	6409 Jan 06 16:04	18°♋29'51	-2.6m
direct	6409 Feb 07 20:49	12°♋11'53	
	6409 Apr 09 13:08	0°♌	
	6409 Jun 04 01:05	0°♍	
	6409 Jul 24 14:47	0°♎	
	6409 Sep 11 20:44	0°♏	
	6409 Oct 30 02:09	0°♐	
evening set	6409 Nov 13 21:29	9°♐22'33	
desc. node	6409 Nov 25 21:32	17°♐02'36	
max. Earth dist.	6409 Dec 10 16:35	26°♐35'30	2.63668 AU
	6409 Dec 15 22:21	0°♑	
conjunction	6409 Dec 29 00:55	8°♑35'27	-0°17'39
minimum elong	6409 Dec 29 00:21	8°♑34'31	0°17'37
	6410 Jan 30 01:09	0°♒	
morning rise	6410 Feb 12 18:24	9°♒22'29	
	6410 Mar 14 07:52	0°♓	
	6410 Apr 24 21:55	0°♈	
	6410 Jun 04 03:42	0°♉	
	6410 Jul 13 15:54	0°♊	
	6410 Aug 22 09:32	0°♋	
	6410 Oct 02 23:45	0°♌	
asc. node	6410 Oct 16 13:55	9°♌12'12	
	6410 Nov 19 11:02	0°♍	
retrograde	6411 Jan 22 04:38	21°♍15'18	
min. Earth dist.	6411 Feb 23 03:49	14°♍19'26	0.55640 AU
greatest brilliancy	6411 Feb 28 20:49	12°♍07'02	-1.8m
opposition	6411 Mar 02 02:10	11°♍38'37	4°58'39
direct	6411 Apr 07 03:02	3°♍32'33	
	6411 Jun 27 14:24	0°♎	
	6411 Aug 21 17:17	0°♏	
	6411 Oct 11 01:56	0°♐	
desc. node	6411 Oct 13 20:57	1°♐43'06	
	6411 Nov 27 13:54	0°♑	
evening set	6411 Dec 21 19:52	15°♑58'44	
max. Earth dist.	6412 Jan 07 19:30	27°♑27'22	2.54369 AU
	6412 Jan 11 12:40	0°♒	
conjunction	6412 Feb 08 08:43	19°♒25'38	-0°55'36
minimum elong	6412 Feb 08 07:21	19°♒23'14	0°55'34
	6412 Feb 23 03:02	0°♓	
morning rise	6412 Apr 01 12:38	28°♓19'38	
	6412 Apr 03 17:57	0°♈	
	6412 May 12 22:38	0°♉	
	6412 Jun 20 10:24	0°♊	
	6412 Jul 29 01:37	0°♋	
asc. node	6412 Sep 02 13:01	26°♋49'02	
	6412 Sep 06 20:27	0°♌	

	6412 Oct 19 02:36	0°♍	
	6412 Dec 05 09:44	0°♎	
	6413 Feb 16 15:27	0°♏	
retrograde	6413 Feb 27 20:48	0°♏48'18	
	6413 Mar 10 17:47	30°℞♎	
min. Earth dist.	6413 Apr 05 23:27	22°♎06'56	0.65032 AU
opposition	6413 Apr 09 04:56	20°♎49'37	4°08'03
greatest brilliancy	6413 Apr 08 18:00	21°♎00'32	-1.4m
direct	6413 May 18 13:21	11°♎33'34	
	6413 Jul 23 11:54	0°♏	
desc. node	6413 Aug 30 20:34	19°♏23'08	
	6413 Sep 18 19:11	0°♐	
	6413 Nov 07 06:50	0°♑	
	6413 Dec 22 16:46	0°♒	
	6414 Feb 03 02:14	0°♓	
evening set	6414 Feb 04 13:01	1°♓03'29	
max. Earth dist.	6414 Feb 21 13:51	13°♓38'35	2.41357 AU
	6414 Mar 15 05:24	0°♈	
conjunction	6414 Apr 03 17:23	15°♈01'45	-1°00'43
minimum elong	6414 Apr 03 19:21	15°♈05'33	1°00'44
	6414 Apr 22 21:13	0°♉	
	6414 May 30 22:11	0°♊	
morning rise	6414 Jun 11 20:34	9°♊24'05	
	6414 Jul 08 05:21	0°♋	
asc. node	6414 Jul 21 11:10	10°♋12'25	
	6414 Aug 16 15:27	0°♌	
	6414 Sep 27 00:49	0°♍	
	6414 Nov 10 08:06	0°♎	
	6414 Dec 29 11:35	0°♏	
	6415 Mar 05 11:12	0°♐	
retrograde	6415 Apr 03 03:25	4°♐29'06	
	6415 Apr 29 13:41	30°℞♏	
opposition	6415 May 13 09:55	24°♏50'14	2°11'46
greatest brilliancy	6415 May 13 11:25	24°♏48'44	-1.3m
min. Earth dist.	6415 May 14 00:36	24°♏35'40	0.68040 AU
direct	6415 Jun 23 14:12	14°♏57'26	
desc. node	6415 Jul 18 19:19	18°♏23'06	
	6415 Aug 20 09:59	0°♐	
	6415 Oct 16 09:27	0°♑	
	6415 Dec 02 15:59	0°♒	
	6416 Jan 14 11:47	0°♓	
	6416 Feb 23 13:20	0°♈	
	6416 Apr 02 00:24	0°♉	
evening set	6416 Apr 07 08:34	4°♉13'06	
	6416 May 09 21:53	0°♊	
asc. node	6416 Jun 07 09:45	22°♊24'02	
conjunction	6416 Jun 16 09:32	29°♊23'18	0°06'22
minimum elong	6416 Jun 16 08:52	29°♊22'00	0°06'19
behind sun begin	6416 Jun 15 05:14	28°♊28'27	
behind sun end	6416 Jun 17 12:31	0°♋15'29	
	6416 Jun 17 04:31	0°♋	
	6416 Jul 26 16:11	0°♌	
max. Earth dist.	6416 Aug 08 04:49	9°♌14'49	2.42294 AU
morning rise	6416 Aug 22 15:28	19°♌44'13	
	6416 Sep 06 00:59	0°♍	
	6416 Oct 19 18:13	0°♎	
	6416 Dec 05 07:29	0°♏	
	6417 Jan 25 00:50	0°♐	
	6417 Mar 29 12:52	0°♑	
retrograde	6417 May 08 01:33	7°♑46'07	
desc. node	6417 Jun 04 18:05	2°♑59'07	
	6417 Jun 13 01:18	30°℞♐	
opposition	6417 Jun 16 01:42	28°♐50'14	-0°24'43
greatest brilliancy	6417 Jun 16 03:10	28°♐48'48	-1.5m
min. Earth dist.	6417 Jun 20 10:55	27°♐08'11	0.64466 AU
direct	6417 Jul 27 13:47	18°♐48'21	
	6417 Sep 12 17:52	0°♑	
	6417 Nov 08 02:42	0°♒	
	6417 Dec 23 01:05	0°♓	
	6418 Feb 01 18:36	0°♈	
	6418 Mar 12 11:56	0°♉	
	6418 Apr 19 14:28	0°♊	
asc. node	6418 Apr 25 10:01	4°♊33'51	
	6418 May 28 04:04	0°♋	
evening set	6418 Jun 19 11:14	16°♋55'54	
	6418 Jul 07 00:55	0°♌	
	6418 Aug 17 18:48	0°♍	
conjunction	6418 Aug 19 09:15	1°♍07'19	1°01'19
minimum elong	6418 Aug 19 07:44	1°♍04'40	1°01'18
max. Earth dist.	6418 Sep 21 05:43	23°♍41'20	2.55578 AU
	6418 Sep 30 15:22	0°♎	
morning rise	6418 Oct 11 23:38	7°♎31'56	
	6418 Nov 15 14:04	0°♏	
	6419 Jan 02 14:24	0°♐	
	6419 Feb 22 10:18	0°♑	
	6419 Apr 21 17:16	0°♒	
desc. node	6419 Apr 22 16:58	0°♒26'02	
retrograde	6419 Jun 20 12:28	15°♒51'27	
opposition	6419 Jul 26 19:22	8°♒09'36	-3°38'59
greatest brilliancy	6419 Jul 27 18:36	7°♒48'23	-1.9m
min. Earth dist.	6419 Aug 03 14:12	5°♒19'36	0.54617 AU
	6419 Aug 22 10:25	30°℞♑	
direct	6419 Sep 04 12:12	28°♑49'53	
	6419 Sep 17 22:49	0°♒	
	6419 Nov 25 03:20	0°♓	
	6420 Jan 08 12:11	0°♈	
	6420 Feb 17 17:25	0°♉	
asc. node	6420 Mar 12 09:26	18°♉09'08	
	6420 Mar 27 19:08	0°♊	
	6420 May 06 05:32	0°♋	
	6420 Jun 15 22:59	0°♌	
	6420 Jul 28 12:08	0°♍	
evening set	6420 Aug 13 12:39	10°♍57'26	
	6420 Sep 10 23:04	0°♎	
conjunction	6420 Oct 03 06:27	14°♎38'07	1°03'44
minimum elong	6420 Oct 03 07:15	14°♎39'25	1°03'46
max. Earth dist.	6420 Oct 17 11:28	23°♎50'37	2.64460 AU
	6420 Oct 27 01:05	0°♏	
morning rise	6420 Nov 18 21:12	14°♏34'51	
	6420 Dec 13 06:25	0°♐	
	6421 Jan 30 06:42	0°♑	
desc. node	6421 Mar 09 14:58	23°♑33'35	
	6421 Mar 20 06:18	0°♒	
	6421 May 10 14:37	0°♓	
	6421 Jul 11 07:06	0°♈	
retrograde	6421 Aug 20 15:36	8°♈27'57	
opposition	6421 Sep 21 04:36	2°♈50'12	-6°16'10
greatest brilliancy	6421 Sep 22 20:48	2°♈19'51	-2.6m
min. Earth dist.	6421 Sep 28 10:46	0°♈39'43	0.41248 AU
	6421 Sep 30 18:24	30°℞♓	
direct	6421 Oct 25 00:20	26°♓12'35	
	6421 Nov 17 19:59	0°♈	
	6422 Jan 15 15:31	0°♉	
asc. node	6422 Jan 28 07:57	8°♉19'05	
	6422 Feb 28 19:25	0°♊	
	6422 Apr 12 05:07	0°♋	
	6422 May 25 02:52	0°♌	
	6422 Jul 08 08:19	0°♍	
	6422 Aug 23 00:27	0°♎	
evening set	6422 Sep 24 22:46	21°♎10'29	

	6422 Oct 08	18:50	0°♏	
conjunction	6422 Nov 10	00:00	20°♏28'33	0°37'58
minimum elong	6422 Nov 10	01:00	20°♏30'07	0°38'00
max. Earth dist.	6422 Nov 09	17:44	20°♏18'35	2.67947 AU
	6422 Nov 24	23:51	0°♐	
morning rise	6422 Dec 23	23:31	18°♐27'41	
	6423 Jan 11	00:07	0°♑	
desc. node	6423 Jan 25	13:08	9°♑21'05	
	6423 Feb 26	09:55	0°♒	
	6423 Apr 13	02:40	0°♓	
	6423 May 28	06:33	0°♈	
	6423 Jul 12	12:09	0°♉	
	6423 Aug 29	06:01	0°♊	
retrograde	6423 Nov 09	10:07	26°♊28'44	
min. Earth dist.	6423 Dec 05	22:40	22°♊06'39	0.38090 AU
opposition	6423 Dec 11	04:11	20°♊37'07	-0°22'41
greatest brilliancy	6423 Dec 11	02:49	20°♊38'06	-3.0m
asc. node	6423 Dec 16	08:01	19°♊10'54	
direct	6424 Jan 09	18:12	15°♊28'32	
	6424 Mar 02	09:06	0°♋	
	6424 Apr 26	05:49	0°♌	
	6424 Jun 14	11:07	0°♍	
	6424 Aug 01	20:35	0°♎	
	6424 Sep 19	02:37	0°♏	
evening set	6424 Oct 30	20:23	26°♏10'16	
	6424 Nov 05	21:45	0°♐	
max. Earth dist.	6424 Dec 01	09:54	16°♐15'14	2.65921 AU
desc. node	6424 Dec 12	12:19	23°♐24'04	
conjunction	6424 Dec 14	16:16	24°♐48'04	-0°01'11
minimum elong	6424 Dec 14	16:15	24°♐48'02	0°01'08
behind sun begin	6424 Dec 13	21:43	24°♐18'04	
behind sun end	6424 Dec 15	10:47	25°♐18'00	
	6424 Dec 22	16:33	0°♑	
morning rise	6425 Jan 28	04:56	24°♑04'36	
	6425 Feb 06	00:49	0°♒	
	6425 Mar 21	18:26	0°♓	
	6425 May 02	23:21	0°♈	
	6425 Jun 12	22:10	0°♉	
	6425 Jul 23	05:18	0°♊	
	6425 Sep 02	00:25	0°♋	
	6425 Oct 15	21:36	0°♌	
asc. node	6425 Nov 02	07:34	10°♌31'46	
	6425 Dec 16	23:23	0°♍	
retrograde	6426 Jan 05	02:03	2°♍30'49	
	6426 Jan 23	14:24	30°℞♌	
min. Earth dist.	6426 Feb 03	17:18	26°♌26'47	0.50512 AU
greatest brilliancy	6426 Feb 10	08:56	23°♌58'39	-2.1m
opposition	6426 Feb 11	17:55	23°♌27'56	4°40'15
direct	6426 Mar 18	00:59	16°♌03'20	
	6426 May 11	00:04	0°♍	
	6426 Jul 09	02:39	0°♎	
	6426 Aug 30	00:42	0°♏	
	6426 Oct 18	07:59	0°♐	
desc. node	6426 Oct 30	11:30	7°♐35'49	
	6426 Dec 04	11:55	0°♑	
evening set	6426 Dec 06	12:23	1°♑18'58	
max. Earth dist.	6426 Dec 26	20:30	14°♑43'47	2.58583 AU
	6427 Jan 18	11:15	0°♒	
conjunction	6427 Jan 22	04:34	2°♒33'04	-0°42'30
minimum elong	6427 Jan 22	03:19	2°♒30'54	0°42'28
	6427 Mar 02	06:50	0°♓	
morning rise	6427 Mar 12	12:05	7°♓22'14	
	6427 Apr 12	05:21	0°♈	
	6427 May 21	18:00	0°♉	
	6427 Jun 29	12:52	0°♊	
	6427 Aug 07	10:47	0°♋	
	6427 Sep 16	14:49	0°♌	
asc. node	6427 Sep 20	04:52	2°♌35'52	
	6427 Oct 29	19:18	0°♍	
	6427 Dec 19	21:55	0°♎	
retrograde	6428 Feb 14	22:52	16°♎42'30	
min. Earth dist.	6428 Mar 21	05:15	8°♎37'53	0.62086 AU
opposition	6428 Mar 25	22:51	6°♎45'09	4°38'47
greatest brilliancy	6428 Mar 25	04:37	7°♎03'14	-1.5m
	6428 Apr 15	00:41	30°℞♍	
direct	6428 May 03	04:56	27°♍51'33	
	6428 May 22	16:43	0°♎	
	6428 Aug 04	18:32	0°♏	
desc. node	6428 Sep 16	10:36	23°♏40'27	
	6428 Sep 27	04:40	0°♐	
	6428 Nov 14	16:31	0°♑	
	6428 Dec 29	20:38	0°♒	
evening set	6429 Jan 16	05:23	12°♒03'50	
max. Earth dist.	6429 Jan 30	05:11	21°♒59'46	2.46665 AU
	6429 Feb 10	07:16	0°♓	
conjunction	6429 Mar 10	14:36	20°♓56'03	-1°05'57
minimum elong	6429 Mar 10	14:30	20°♓55'54	1°05'56
	6429 Mar 22	14:22	0°♈	
	6429 Apr 30	10:20	0°♉	
morning rise	6429 May 12	00:36	9°♉05'18	
	6429 Jun 07	14:20	0°♊	
	6429 Jul 15	23:10	0°♋	
asc. node	6429 Aug 07	04:10	17°♋01'47	
	6429 Aug 24	10:23	0°♌	
	6429 Oct 04	23:18	0°♍	
	6429 Nov 18	21:23	0°♎	
	6430 Jan 09	16:45	0°♏	
retrograde	6430 Mar 20	21:16	21°♏54'15	
min. Earth dist.	6430 Apr 29	11:06	12°♏25'38	0.67653 AU
opposition	6430 Apr 30	08:13	12°♏04'36	3°01'56
greatest brilliancy	6430 Apr 30	06:17	12°♏06'32	-1.3m
direct	6430 Jun 09	23:46	2°♏23'01	
desc. node	6430 Aug 04	09:31	16°♏14'39	
	6430 Sep 02	11:04	0°♐	
	6430 Oct 25	02:41	0°♑	
	6430 Dec 10	10:13	0°♒	
	6431 Jan 22	00:17	0°♓	
	6431 Mar 03	01:46	0°♈	
evening set	6431 Mar 12	05:09	7°♈02'25	
	6431 Apr 10	14:07	0°♉	
conjunction	6431 May 18	04:04	29°♉43'54	-0°26'20
minimum elong	6431 May 18	06:41	29°♉49'06	0°26'21
	6431 May 18	12:12	0°♊	
max. Earth dist.	6431 Jun 24	18:25	29°♊14'11	2.37337 AU
asc. node	6431 Jun 25	04:08	29°♊33'01	
	6431 Jun 25	18:03	0°♋	
morning rise	6431 Jul 29	01:24	25°♋26'12	
	6431 Aug 04	03:45	0°♌	
	6431 Sep 14	10:38	0°♍	
	6431 Oct 28	05:37	0°♎	
	6431 Dec 14	08:41	0°♏	
	6432 Feb 05	13:18	0°♐	
retrograde	6432 Apr 23	14:17	24°♐47'15	
opposition	6432 Jun 02	06:07	15°♐31'39	0°40'21
greatest brilliancy	6432 Jun 02	08:07	15°♐29'41	-1.4m
min. Earth dist.	6432 Jun 05	04:19	14°♐22'49	0.66641 AU
desc. node	6432 Jun 21	08:21	8°♐43'22	
direct	6432 Jul 13	20:08	5°♐29'23	
	6432 Sep 28	00:16	0°♑	

	6432 Nov 17 17:24	0°♒	
	6432 Dec 31 11:57	0°♓	
	6433 Feb 09 20:32	0°♈	
	6433 Mar 20 10:01	0°♉	
	6433 Apr 27 09:25	0°♊	
asc. node	6433 May 12 02:33	11°♊34'15	
evening set	6433 May 23 00:15	20°♊05'29	
	6433 Jun 04 19:12	0°♋	
	6433 Jul 14 11:18	0°♌	
conjunction	6433 Jul 28 02:13	10°♌00'13	0°47'17
minimum elong	6433 Jul 27 23:39	9°♌55'34	0°47'14
	6433 Aug 25 00:09	0°♍	
max. Earth dist.	6433 Sep 07 14:23	9°♍29'37	2.50750 AU
morning rise	6433 Sep 24 07:19	20°♍57'10	
	6433 Oct 07 17:32	0°♎	
	6433 Nov 22 18:28	0°♏	
	6434 Jan 10 10:44	0°♐	
	6434 Mar 04 15:57	0°♑	
desc. node	6434 May 09 07:04	27°♑06'57	
	6434 May 27 08:23	0°♒	
retrograde	6434 Jun 02 03:53	0°♒12'07	
	6434 Jun 07 20:35	30°℞♑	
opposition	6434 Jul 09 17:32	21°♑56'08	-2°19'46
greatest brilliancy	6434 Jul 10 05:55	21°♑44'27	-1.7m
min. Earth dist.	6434 Jul 16 07:17	19°♑27'41	0.59158 AU
direct	6434 Aug 19 11:40	12°♑10'15	
	6434 Oct 18 06:38	0°♒	
	6434 Dec 07 07:20	0°♓	
	6435 Jan 18 11:23	0°♈	
	6435 Feb 26 20:03	0°♉	
asc. node	6435 Mar 30 01:29	24°♉18'35	
	6435 Apr 06 08:54	0°♊	
	6435 May 15 08:23	0°♋	
	6435 Jun 24 15:33	0°♌	
evening set	6435 Jul 25 21:33	22°♌22'34	
	6435 Aug 05 19:14	0°♍	
conjunction	6435 Sep 17 19:45	29°♍14'47	1°07'20
minimum elong	6435 Sep 17 19:55	29°♍15'04	1°07'20
	6435 Sep 18 22:56	0°♎	
max. Earth dist.	6435 Oct 08 17:29	13°♎02'21	2.61614 AU
	6435 Nov 03 21:45	0°♏	
morning rise	6435 Nov 05 11:57	1°♏01'17	
	6435 Dec 21 07:17	0°♐	
	6436 Feb 08 01:35	0°♑	
desc. node	6436 Mar 26 05:54	27°♑49'39	
	6436 Mar 30 01:41	0°♒	
	6436 May 27 04:10	0°♓	
retrograde	6436 Jul 24 05:03	15°♓21'50	
opposition	6436 Aug 26 18:15	8°♓50'32	-5°37'34
greatest brilliancy	6436 Aug 28 10:51	8°♓16'44	-2.3m
min. Earth dist.	6436 Sep 04 08:26	5°♓59'46	0.46418 AU
direct	6436 Oct 02 13:28	0°♓51'08	
	6436 Dec 17 05:32	0°♈	
	6437 Jan 30 09:07	0°♉	
asc. node	6437 Feb 14 01:30	10°♉39'28	
	6437 Mar 12 07:01	0°♊	
	6437 Apr 21 23:40	0°♋	
	6437 Jun 02 17:35	0°♌	
	6437 Jul 16 02:39	0°♍	
	6437 Aug 30 04:35	0°♎	
evening set	6437 Sep 09 10:47	6°♎41'33	
	6437 Oct 15 14:42	0°♏	
conjunction	6437 Oct 26 19:55	7°♏09'53	0°50'10
minimum elong	6437 Oct 26 21:02	7°♏11'40	0°50'11
max. Earth dist.	6437 Oct 31 19:36	10°♏20'35	2.67248 AU
	6437 Dec 01 18:08	0°♐	
morning rise	6437 Dec 10 10:34	5°♐30'25	
	6438 Jan 18 01:04	0°♑	
desc. node	6438 Feb 11 04:21	15°♑20'50	
	6438 Mar 06 04:23	0°♒	
	6438 Apr 22 06:56	0°♓	
	6438 Jun 09 01:07	0°♈	
	6438 Jul 30 01:12	0°♉	
retrograde	6438 Oct 09 22:02	24°♉28'35	
opposition	6438 Nov 08 20:40	19°♉30'27	-3°54'43
greatest brilliancy	6438 Nov 09 01:59	19°♉26'56	-3.0m
min. Earth dist.	6438 Nov 09 02:35	19°♉26'32	0.36812 AU
direct	6438 Dec 08 12:38	14°♉34'41	
asc. node	6439 Jan 02 00:11	18°♉24'26	
	6439 Jan 30 10:45	0°♊	
	6439 Mar 23 09:54	0°♋	
	6439 May 09 05:17	0°♌	
	6439 Jun 24 15:19	0°♍	
	6439 Aug 10 15:32	0°♎	
	6439 Sep 27 04:09	0°♏	
evening set	6439 Oct 17 18:42	12°♏59'23	
	6439 Nov 13 15:58	0°♐	
max. Earth dist.	6439 Nov 23 15:16	6°♐20'21	2.67381 AU
conjunction	6439 Dec 01 17:22	11°♐29'58	0°14'55
minimum elong	6439 Dec 01 17:49	11°♐30'41	0°14'58
behind sun begin	6439 Dec 01 11:18	11°♐20'17	
behind sun end	6439 Dec 02 00:20	11°♐41'05	
desc. node	6439 Dec 30 02:36	29°♐45'24	
	6439 Dec 30 11:37	0°♑	
morning rise	6440 Jan 14 15:19	9°♑51'41	
	6440 Feb 14 03:49	0°♒	
	6440 Mar 29 12:02	0°♓	
	6440 May 11 13:02	0°♈	
	6440 Jun 22 12:43	0°♉	
	6440 Aug 03 03:31	0°♊	
	6440 Sep 15 04:16	0°♋	
	6440 Nov 05 17:53	0°♌	
asc. node	6440 Nov 18 23:42	5°♌20'04	
retrograde	6440 Dec 16 14:06	10°♌26'49	
min. Earth dist.	6441 Jan 12 23:51	5°♌16'04	0.45054 AU
greatest brilliancy	6441 Jan 20 04:51	2°♌46'57	-2.4m
opposition	6441 Jan 21 09:22	2°♌22'10	3°38'19
	6441 Jan 28 13:09	30°℞♋	
direct	6441 Feb 22 19:07	25°♋48'44	
	6441 Mar 21 14:39	0°♌	
	6441 May 27 04:53	0°♍	
	6441 Jul 18 18:14	0°♎	
	6441 Sep 06 18:55	0°♏	
	6441 Oct 25 08:31	0°♐	
desc. node	6441 Nov 16 01:30	13°♐43'45	
evening set	6441 Nov 22 00:08	17°♐31'42	
	6441 Dec 11 07:28	0°♑	
max. Earth dist.	6441 Dec 16 08:48	3°♑18'08	2.62082 AU
conjunction	6442 Jan 06 12:27	17°♑17'01	-0°27'07
minimum elong	6442 Jan 06 11:36	17°♑15'35	0°27'04
	6442 Jan 25 09:14	0°♒	
morning rise	6442 Feb 22 05:42	19°♒13'27	
	6442 Mar 09 12:14	0°♓	
	6442 Apr 19 20:47	0°♈	
	6442 May 29 20:14	0°♉	
	6442 Jul 08 01:17	0°♊	
	6442 Aug 16 09:50	0°♋	
	6442 Sep 26 06:36	0°♌	
asc. node	6442 Oct 06 23:30	7°♌29'59	

	6442 Nov 10 08:59	0°♍	
	6443 Jan 17 05:11	0°♎	
retrograde	6443 Jan 31 04:19	1°♎18'34	
	6443 Feb 13 16:57	30°℞♍	
min. Earth dist.	6443 Mar 05 08:41	23°♍56'53	0.58155 AU
greatest brilliancy	6443 Mar 10 11:48	21°♍56'27	-1.7m
opposition	6443 Mar 11 13:32	21°♍31'13	4°56'59
direct	6443 Apr 17 11:21	13°♍06'13	
	6443 Jun 18 06:27	0°♎	
	6443 Aug 15 17:17	0°♏	
desc. node	6443 Oct 04 00:26	28°♏48'18	
	6443 Oct 05 23:42	0°♐	
	6443 Nov 22 19:46	0°♑	
evening set	6443 Dec 31 00:02	25°♑18'58	
	6444 Jan 06 20:42	0°♒	
max. Earth dist.	6444 Jan 15 08:55	5°♒52'08	2.51758 AU
conjunction	6444 Feb 18 22:38	0°♓22'47	-1°01'17
minimum elong	6444 Feb 18 21:29	0°♓20'42	1°01'15
	6444 Feb 18 10:03	0°♓	
	6444 Mar 29 22:23	0°♈	
morning rise	6444 Apr 14 22:36	12°♈11'23	
	6444 May 08 00:04	0°♉	
	6444 Jun 15 08:49	0°♊	
	6444 Jul 23 21:11	0°♋	
asc. node	6444 Aug 23 21:30	23°♋35'33	
	6444 Sep 01 12:05	0°♌	
	6444 Oct 13 09:01	0°♍	
	6444 Nov 28 10:37	0°♎	
	6445 Jan 25 15:52	0°♏	
retrograde	6445 Mar 07 14:20	8°♏57'40	
	6445 Apr 14 13:44	30°℞♎	
min. Earth dist.	6445 Apr 14 15:23	29°♎58'22	0.66233 AU
opposition	6445 Apr 17 00:48	29°♎01'04	3°45'54
greatest brilliancy	6445 Apr 16 17:31	29°♎08'21	-1.4m
direct	6445 May 26 21:53	19°♎34'45	
	6445 Jul 12 20:46	0°♏	
desc. node	6445 Aug 20 23:24	17°♏48'48	
	6445 Sep 12 17:07	0°♐	
	6445 Nov 02 03:26	0°♑	
	6445 Dec 17 20:54	0°♒	
	6446 Jan 29 08:22	0°♓	
evening set	6446 Feb 16 12:52	13°♓25'04	
	6446 Mar 10 11:13	0°♈	
max. Earth dist.	6446 Mar 13 15:25	2°♈25'55	2.38686 AU
conjunction	6446 Apr 18 20:43	0°♉37'11	-0°51'59
minimum elong	6446 Apr 18 23:43	0°♉43'06	0°51'59
	6446 Apr 18 01:48	0°♉	
	6446 May 26 01:21	0°♊	
morning rise	6446 Jun 29 12:39	27°♊03'50	
	6446 Jul 03 07:23	0°♋	
asc. node	6446 Jul 11 19:43	6°♋34'51	
	6446 Aug 11 16:28	0°♌	
	6446 Sep 21 23:27	0°♍	
	6446 Nov 04 23:52	0°♎	
	6446 Dec 23 02:57	0°♏	
	6447 Feb 19 10:43	0°♐	
retrograde	6447 Apr 10 19:50	12°♐09'48	
opposition	6447 May 20 22:44	2°♐38'23	1°39'37
greatest brilliancy	6447 May 21 01:09	2°♐35'59	-1.3m
min. Earth dist.	6447 May 22 09:20	2°♐04'11	0.67815 AU
	6447 May 27 16:56	30°℞♏	
direct	6447 Jul 01 08:25	22°♏41'04	
desc. node	6447 Jul 08 22:22	23°♏01'29	
	6447 Aug 08 09:02	0°♐	
	6447 Oct 10 01:59	0°♑	
	6447 Nov 27 08:01	0°♒	
	6448 Jan 09 11:25	0°♓	
	6448 Feb 18 15:40	0°♈	
	6448 Mar 28 03:45	0°♉	
evening set	6448 Apr 23 15:55	20°♉58'24	
	6448 May 05 01:36	0°♊	
asc. node	6448 May 28 19:43	18°♊41'20	
	6448 Jun 12 08:39	0°♋	
conjunction	6448 Jul 02 08:37	15°♋20'08	0°23'35
minimum elong	6448 Jul 02 06:32	15°♋16'10	0°23'31
	6448 Jul 21 20:56	0°♌	
max. Earth dist.	6448 Aug 21 08:31	22°♌15'12	2.45355 AU
	6448 Sep 01 05:48	0°♍	
morning rise	6448 Sep 04 07:02	2°♍09'06	
	6448 Oct 14 21:34	0°♎	
	6448 Nov 30 03:59	0°♏	
	6449 Jan 18 21:43	0°♐	
	6449 Mar 17 15:57	0°♑	
retrograde	6449 May 16 18:39	15°♑57'50	
desc. node	6449 May 25 21:53	15°♑26'25	
opposition	6449 Jun 24 08:23	7°♑14'43	-1°05'23
greatest brilliancy	6449 Jun 24 12:55	7°♑10'21	-1.5m
min. Earth dist.	6449 Jun 29 13:07	5°♑14'51	0.62820 AU
	6449 Jul 15 05:58	30°℞♐	
direct	6449 Aug 04 16:46	27°♐16'01	
	6449 Aug 26 07:49	0°♑	
	6449 Nov 01 01:56	0°♒	
	6449 Dec 17 06:02	0°♓	
	6450 Jan 27 09:22	0°♈	
	6450 Mar 07 07:20	0°♉	
	6450 Apr 14 12:49	0°♊	
asc. node	6450 Apr 15 18:04	0°♊57'18	
	6450 May 23 05:07	0°♋	
	6450 Jul 02 04:44	0°♌	
evening set	6450 Jul 03 12:32	0°♌58'21	
	6450 Aug 13 00:54	0°♍	
conjunction	6450 Aug 30 15:52	12°♍12'37	1°05'29
minimum elong	6450 Aug 30 15:03	12°♍11'12	1°05'28
	6450 Sep 25 22:49	0°♎	
max. Earth dist.	6450 Sep 27 23:33	1°♎21'17	2.57943 AU
morning rise	6450 Oct 21 05:17	16°♎40'15	
	6450 Nov 10 20:07	0°♏	
	6450 Dec 28 13:15	0°♐	
	6451 Feb 16 10:31	0°♑	
	6451 Apr 11 23:38	0°♒	
desc. node	6451 Apr 12 20:22	0°♒26'04	
retrograde	6451 Jul 02 00:34	26°♒02'21	
opposition	6451 Aug 06 11:10	18°♒43'06	-4°24'41
greatest brilliancy	6451 Aug 07 17:23	18°♒16'14	-2.0m
min. Earth dist.	6451 Aug 14 18:54	15°♒46'05	0.51800 AU
direct	6451 Sep 14 08:37	9°♒45'17	
	6451 Nov 15 08:35	0°♓	
	6452 Jan 01 11:27	0°♈	
	6452 Feb 11 13:28	0°♉	
asc. node	6452 Mar 02 16:49	15°♉14'45	
	6452 Mar 22 02:01	0°♊	
	6452 Apr 30 20:09	0°♋	
	6452 Jun 10 20:15	0°♌	
	6452 Jul 23 14:48	0°♍	
evening set	6452 Aug 23 18:43	21°♍04'12	
	6452 Sep 06 05:57	0°♎	
conjunction	6452 Oct 12 02:20	23°♎21'59	0°59'43
minimum elong	6452 Oct 12 03:20	23°♎23'36	0°59'44
	6452 Oct 22 09:51	0°♏	

max. Earth dist.	6452 Oct 22 20:54	0°♏17'44	2.65699 AU
morning rise	6452 Nov 26 19:56	22°♏34'21	
	6452 Dec 08 13:38	0°♐	
	6453 Jan 25 06:23	0°♑	
desc. node	6453 Feb 27 18:21	20°♑54'09	
	6453 Mar 14 10:44	0°♒	
	6453 May 02 19:18	0°♓	
	6453 Jun 25 04:01	0°♈	
retrograde	6453 Sep 06 22:47	23°♈57'02	
opposition	6453 Oct 07 12:43	18°♈45'14	-6°01'30
greatest brilliancy	6453 Oct 08 20:12	18°♈23'03	-2.8m
min. Earth dist.	6453 Oct 13 01:15	17°♈12'26	0.38953 AU
direct	6453 Nov 08 11:31	12°♈54'58	
	6454 Jan 02 09:39	0°♉	
asc. node	6454 Jan 18 17:28	9°♉14'53	
	6454 Feb 20 08:06	0°♊	
	6454 Apr 05 10:05	0°♋	
	6454 May 19 06:03	0°♌	
	6454 Jul 03 01:23	0°♍	
	6454 Aug 18 02:41	0°♎	
evening set	6454 Oct 03 10:47	29°♎35'16	
	6454 Oct 04 02:22	0°♏	
max. Earth dist.	6454 Nov 14 20:41	26°♏29'21	2.67986 AU
conjunction	6454 Nov 17 23:08	28°♏27'34	0°29'54
minimum elong	6454 Nov 17 23:57	28°♏28'53	0°29'56
	6454 Nov 20 09:19	0°♐	
morning rise	6454 Dec 31 18:41	26°♐26'16	
	6455 Jan 06 07:33	0°♑	
desc. node	6455 Jan 15 16:36	6°♑03'10	
	6455 Feb 21 10:15	0°♒	
	6455 Apr 07 13:43	0°♓	
	6455 May 21 19:32	0°♈	
	6455 Jul 04 12:21	0°♉	
	6455 Aug 17 21:18	0°♊	
	6455 Oct 07 06:53	0°♋	
retrograde	6455 Nov 24 12:15	13°♋50'19	
asc. node	6455 Dec 06 17:21	12°♋45'28	
min. Earth dist.	6455 Dec 20 14:35	9°♋20'47	0.40106 AU
opposition	6455 Dec 27 17:04	7°♋10'16	1°26'45
greatest brilliancy	6455 Dec 27 06:28	7°♋18'27	-2.8m
direct	6456 Jan 27 05:27	1°♋34'19	
	6456 Apr 16 21:40	0°♌	
	6456 Jun 07 22:38	0°♍	
	6456 Jul 27 10:20	0°♎	
	6456 Sep 14 04:50	0°♏	
	6456 Nov 01 05:47	0°♐	
evening set	6456 Nov 07 21:08	4°♐11'55	
desc. node	6456 Dec 02 15:20	20°♐00'14	
max. Earth dist.	6456 Dec 06 18:51	22°♐40'32	2.64785 AU
	6456 Dec 18 02:07	0°♑	
conjunction	6456 Dec 22 19:31	3°♑04'52	-0°10'48
minimum elong	6456 Dec 22 19:11	3°♑04'19	0°10'44
behind sun begin	6456 Dec 22 04:58	2°♑41'07	
behind sun end	6456 Dec 23 09:23	3°♑27'31	
	6457 Feb 01 08:08	0°♒	
morning rise	6457 Feb 05 21:57	3°♒05'55	
	6457 Mar 16 20:30	0°♓	
	6457 Apr 27 17:30	0°♈	
	6457 Jun 07 06:52	0°♉	
	6457 Jul 17 02:29	0°♊	
	6457 Aug 26 04:53	0°♋	
	6457 Oct 07 11:25	0°♌	
asc. node	6457 Oct 23 15:25	10°♌34'48	
	6457 Nov 26 18:03	0°♍	
retrograde	6458 Jan 15 01:23	13°♍58'41	
min. Earth dist.	6458 Feb 14 23:39	7°♍25'51	0.53425 AU
greatest brilliancy	6458 Feb 21 03:58	5°♍04'49	-2.0m
opposition	6458 Feb 22 11:38	4°♍34'37	4°55'19
	6458 Mar 07 18:48	30°℞♌	
direct	6458 Mar 29 19:08	26°♌45'52	
	6458 Apr 22 15:14	0°♍	
	6458 Jul 01 22:12	0°♎	
	6458 Aug 24 12:11	0°♏	
	6458 Oct 13 09:52	0°♐	
desc. node	6458 Oct 20 14:25	4°♐27'14	
	6458 Nov 29 19:22	0°♑	
evening set	6458 Dec 15 03:25	10°♑02'49	
max. Earth dist.	6459 Jan 02 11:41	22°♑18'00	2.56350 AU
	6459 Jan 13 19:34	0°♒	
conjunction	6459 Jan 31 17:36	12°♒23'32	-0°50'29
minimum elong	6459 Jan 31 16:14	12°♒21'08	0°50'27
	6459 Feb 25 13:29	0°♓	
morning rise	6459 Mar 23 23:40	19°♓17'11	
	6459 Apr 07 08:37	0°♈	
	6459 May 16 17:27	0°♉	
	6459 Jun 24 08:17	0°♊	
	6459 Aug 02 01:40	0°♋	
asc. node	6459 Sep 10 14:28	29°♋44'34	
	6459 Sep 10 22:53	0°♌	
	6459 Oct 23 10:45	0°♍	
	6459 Dec 10 18:59	0°♎	
retrograde	6460 Feb 22 23:59	25°♎23'09	
min. Earth dist.	6460 Mar 30 07:47	16°♎57'31	0.63835 AU
opposition	6460 Apr 03 05:25	15°♎24'18	4°22'19
greatest brilliancy	6460 Apr 02 15:24	15°♎38'16	-1.5m
direct	6460 May 12 03:02	6°♎17'31	
	6460 Jul 28 03:15	0°♏	
desc. node	6460 Sep 06 13:54	21°♏22'35	
	6460 Sep 21 15:02	0°♐	
	6460 Nov 09 17:28	0°♑	
	6460 Dec 25 02:13	0°♒	
evening set	6461 Jan 26 21:41	23°♒01'02	
	6461 Feb 05 13:33	0°♓	
max. Earth dist.	6461 Feb 10 14:18	3°♓40'20	2.43712 AU
	6461 Mar 17 19:25	0°♈	
conjunction	6461 Mar 23 18:39	4°♈33'35	-1°04'28
minimum elong	6461 Mar 23 19:39	4°♈35'29	1°04'28
	6461 Apr 25 13:44	0°♉	
morning rise	6461 May 29 01:38	26°♉22'11	
	6461 Jun 02 16:07	0°♊	
	6461 Jul 10 23:30	0°♋	
asc. node	6461 Jul 28 13:11	13°♋31'13	
	6461 Aug 19 09:05	0°♌	
	6461 Sep 29 18:06	0°♍	
	6461 Nov 13 04:38	0°♎	
	6462 Jan 02 02:11	0°♏	
retrograde	6462 Mar 28 10:45	29°♏37'23	
opposition	6462 May 07 20:18	19°♏53'17	2°33'16
greatest brilliancy	6462 May 07 20:32	19°♏53'04	-1.3m
min. Earth dist.	6462 May 07 19:09	19°♏54'26	0.67992 AU
direct	6462 Jun 17 19:57	10°♏04'55	
desc. node	6462 Jul 25 13:12	17°♏12'39	
	6462 Aug 25 12:03	0°♐	
	6462 Oct 19 10:47	0°♑	
	6462 Dec 05 08:29	0°♒	
	6463 Jan 17 03:08	0°♓	
	6463 Feb 26 05:30	0°♈	
evening set	6463 Mar 27 02:48	22°♈26'03	
	6463 Apr 05 17:37	0°♉	
	6463 May 13 15:14	0°♊	

conjunction	6463 Jun 04 08:11	17°♊06'25	-0°07'54
minimum elong	6463 Jun 04 09:01	17°♊08'04	0°07'56
behind sun begin	6463 Jun 03 06:20	16°♊15'45	
behind sun end	6463 Jun 05 11:43	18°♊00'22	
asc. node	6463 Jun 15 11:21	25°♊48'25	
	6463 Jun 20 20:52	0°♋	
max. Earth dist.	6463 Jul 26 00:49	26°♋49'40	2.39878 AU
	6463 Jul 30 06:43	0°♌	
morning rise	6463 Aug 13 00:45	10°♌10'12	
	6463 Sep 09 13:13	0°♍	
	6463 Oct 23 05:24	0°♎	
	6463 Dec 08 21:50	0°♏	
	6464 Jan 29 09:17	0°♐	
	6464 Apr 09 20:59	0°♑	
retrograde	6464 May 01 17:24	2°♑38'00	
	6464 May 22 02:56	30°℞♐	
opposition	6464 Jun 10 01:50	23°♐32'44	0°03'03
greatest brilliancy	6464 Jun 10 02:07	23°♐32'28	-1.4m
desc. node	6464 Jun 11 12:00	22°♐59'25	
min. Earth dist.	6464 Jun 13 19:39	22°♐05'14	0.65573 AU
direct	6464 Jul 21 16:20	13°♐29'53	
	6464 Sep 19 03:50	0°♑	
	6464 Nov 11 16:34	0°♒	
	6464 Dec 26 03:36	0°♓	
	6465 Feb 04 17:53	0°♈	
	6465 Mar 15 09:51	0°♉	
	6465 Apr 22 10:39	0°♊	
asc. node	6465 May 02 11:17	7°♊53'03	
	6465 May 30 21:38	0°♋	
evening set	6465 Jun 07 20:28	6°♋05'54	
	6465 Jul 09 15:12	0°♌	
conjunction	6465 Aug 10 02:59	22°♌51'03	0°56'28
minimum elong	6465 Aug 10 00:56	22°♌47'25	0°56'26
	6465 Aug 20 05:22	0°♍	
max. Earth dist.	6465 Sep 15 17:05	18°♍20'51	2.53508 AU
	6465 Oct 02 23:04	0°♎	
morning rise	6465 Oct 04 15:04	1°♎06'51	
	6465 Nov 17 21:09	0°♏	
	6466 Jan 05 02:25	0°♐	
	6466 Feb 25 17:24	0°♑	
desc. node	6466 Apr 29 10:44	0°♒03'43	
	6466 Apr 29 06:44	0°♒	
retrograde	6466 Jun 12 06:31	9°♒22'22	
opposition	6466 Jul 19 04:33	1°♒24'20	-3°04'53
greatest brilliancy	6466 Jul 19 22:50	1°♒07'23	-1.8m
	6466 Jul 22 23:17	30°℞♑	
min. Earth dist.	6466 Jul 26 11:35	28°♑42'25	0.56754 AU
direct	6466 Aug 28 10:58	21°♑50'52	
	6466 Oct 05 06:21	0°♒	
	6466 Nov 30 03:01	0°♓	
	6467 Jan 12 09:51	0°♈	
	6467 Feb 21 05:26	0°♉	
asc. node	6467 Mar 20 11:01	21°♉02'42	
	6467 Apr 01 00:44	0°♊	
	6467 May 10 05:01	0°♋	
	6467 Jun 19 16:31	0°♌	
	6467 Jul 31 23:51	0°♍	
evening set	6467 Aug 06 07:59	3°♍41'22	
	6467 Sep 14 06:10	0°♎	
conjunction	6467 Sep 27 09:03	8°♎39'54	1°05'48
minimum elong	6467 Sep 27 09:38	8°♎40'51	1°05'48
max. Earth dist.	6467 Oct 14 14:01	19°♎53'48	2.63286 AU
	6467 Oct 30 05:32	0°♏	
morning rise	6467 Nov 13 19:44	9°♏20'09	
	6467 Dec 16 11:52	0°♐	
	6468 Feb 02 18:48	0°♑	
desc. node	6468 Mar 16 08:50	25°♑46'33	
	6468 Mar 23 12:04	0°♒	
	6468 May 15 22:55	0°♓	
retrograde	6468 Aug 08 01:45	28°♓17'56	
opposition	6468 Sep 09 11:49	22°♓16'08	-6°06'16
greatest brilliancy	6468 Sep 11 06:21	21°♓42'24	-2.5m
min. Earth dist.	6468 Sep 17 14:19	19°♓42'58	0.43463 AU
direct	6468 Oct 14 17:24	14°♓59'37	
	6468 Dec 04 09:03	0°♈	
	6469 Jan 22 03:01	0°♉	
asc. node	6469 Feb 04 09:50	9°♉12'44	
	6469 Mar 05 11:50	0°♊	
	6469 Apr 15 23:31	0°♋	
	6469 May 28 06:28	0°♌	
	6469 Jul 11 00:57	0°♍	
	6469 Aug 25 09:27	0°♎	
evening set	6469 Sep 18 10:00	15°♎32'58	
	6469 Oct 10 23:11	0°♏	
conjunction	6469 Nov 03 23:47	15°♏18'03	0°43'18
minimum elong	6469 Nov 04 00:50	15°♏19'44	0°43'20
max. Earth dist.	6469 Nov 05 24:00	16°♏34'41	2.67737 AU
	6469 Nov 27 03:10	0°♐	
morning rise	6469 Dec 18 04:43	13°♐23'13	
	6470 Jan 13 06:14	0°♑	
desc. node	6470 Feb 01 06:55	12°♑10'55	
	6470 Feb 28 23:29	0°♒	
	6470 Apr 16 06:07	0°♓	
	6470 Jun 01 09:14	0°♈	
	6470 Jul 18 10:22	0°♉	
	6470 Sep 09 17:01	0°♊	
retrograde	6470 Oct 27 13:29	12°♊59'48	
min. Earth dist.	6470 Nov 24 06:17	8°♊29'26	0.37087 AU
opposition	6470 Nov 27 06:56	7°♊39'58	-1°57'05
greatest brilliancy	6470 Nov 27 04:03	7°♊41'56	-3.0m
asc. node	6470 Dec 23 09:33	2°♊48'59	
direct	6470 Dec 26 14:09	2°♊44'51	
	6471 Mar 12 22:12	0°♋	
	6471 May 02 00:42	0°♌	
	6471 Jun 18 19:01	0°♍	
	6471 Aug 05 11:49	0°♎	
	6471 Sep 22 09:18	0°♏	
evening set	6471 Oct 25 20:28	21°♏01'29	
	6471 Nov 09 01:12	0°♐	
max. Earth dist.	6471 Nov 28 18:55	12°♐33'43	2.66674 AU
conjunction	6471 Dec 09 16:12	19°♐32'32	0°05'39
minimum elong	6471 Dec 09 16:23	19°♐32'49	0°05'42
behind sun begin	6471 Dec 08 22:50	19°♐04'38	
behind sun end	6471 Dec 10 09:56	20°♐01'02	
desc. node	6471 Dec 20 06:01	26°♐21'46	
	6471 Dec 25 20:45	0°♑	
morning rise	6472 Jan 22 20:48	18°♑20'39	
	6472 Feb 09 09:02	0°♒	
	6472 Mar 24 09:40	0°♓	
	6472 May 05 23:32	0°♈	
	6472 Jun 16 08:56	0°♉	
	6472 Jul 27 04:04	0°♊	
	6472 Sep 06 16:36	0°♋	
	6472 Oct 22 11:08	0°♌	
asc. node	6472 Nov 09 09:19	9°♌48'22	
retrograde	6472 Dec 27 22:48	23°♌50'19	
min. Earth dist.	6473 Jan 25 13:11	18°♌10'57	0.48067 AU
opposition	6473 Feb 02 21:22	15°♌10'18	4°20'54
greatest brilliancy	6473 Feb 01 12:46	15°♌39'50	-2.3m
direct	6473 Mar 08 08:15	8°♌07'38	

	6473 May 17 23:10	0°♍	
	6473 Jul 12 13:54	0°♎	
	6473 Sep 01 14:28	0°♏	
	6473 Oct 20 14:13	0°♐	
desc. node	6473 Nov 06 05:12	10°♐26'43	
evening set	6473 Nov 30 05:21	25°♐47'58	
	6473 Dec 06 16:47	0°♑	
max. Earth dist.	6473 Dec 22 05:28	10°♑11'01	2.60237 AU
conjunction	6474 Jan 15 07:12	26°♑17'33	-0°36'15
minimum elong	6474 Jan 15 06:05	26°♑15'40	0°36'11
	6474 Jan 20 18:05	0°♒	
morning rise	6474 Mar 04 07:49	29°♒41'58	
	6474 Mar 04 17:55	0°♓	
	6474 Apr 14 21:25	0°♈	
	6474 May 24 15:09	0°♉	
	6474 Jul 02 14:22	0°♊	
	6474 Aug 10 15:56	0°♋	
	6474 Sep 20 01:02	0°♌	
asc. node	6474 Sep 27 06:45	5°♌11'09	
	6474 Nov 02 18:35	0°♍	
	6474 Dec 26 23:02	0°♎	
retrograde	6475 Feb 08 17:59	10°♎44'55	
min. Earth dist.	6475 Mar 15 02:54	2°♎58'39	0.60447 AU
opposition	6475 Mar 20 12:17	0°♎50'58	4°48'35
greatest brilliancy	6475 Mar 19 14:45	1°♎12'14	-1.6m
	6475 Mar 22 16:14	30°℞♍	
direct	6475 Apr 27 05:01	22°♍09'15	
	6475 Jun 05 17:23	0°♎	
	6475 Aug 09 07:41	0°♏	
desc. node	6475 Sep 24 04:02	26°♏03'13	
	6475 Sep 30 18:46	0°♐	
	6475 Nov 18 00:49	0°♑	
	6476 Jan 02 04:48	0°♒	
evening set	6476 Jan 09 13:21	5°♒03'55	
max. Earth dist.	6476 Jan 23 18:39	15°♒00'09	2.49002 AU
	6476 Feb 13 17:57	0°♓	
conjunction	6476 Mar 01 05:53	12°♓04'44	-1°04'56
minimum elong	6476 Mar 01 05:14	12°♓03'30	1°04'56
	6476 Mar 25 04:12	0°♈	
morning rise	6476 Apr 29 15:07	27°♈16'20	
	6476 May 03 03:09	0°♉	
	6476 Jun 10 09:12	0°♊	
	6476 Jul 18 18:50	0°♋	
asc. node	6476 Aug 14 05:42	20°♋14'10	
	6476 Aug 27 06:20	0°♌	
	6476 Oct 07 20:31	0°♍	
	6476 Nov 22 01:45	0°♎	
	6477 Jan 14 13:20	0°♏	
retrograde	6477 Mar 15 05:35	16°♏55'43	
min. Earth dist.	6477 Apr 23 04:19	7°♏39'23	0.67154 AU
opposition	6477 Apr 24 17:18	7°♏02'31	3°21'01
greatest brilliancy	6477 Apr 24 13:14	7°♏06'34	-1.3m
	6477 May 15 00:25	30°℞♎	
direct	6477 Jun 04 01:26	27°♎27'08	
	6477 Jun 25 14:29	0°♏	
desc. node	6477 Aug 11 03:03	16°♏54'59	
	6477 Sep 06 03:43	0°♐	
	6477 Oct 27 20:19	0°♑	
	6477 Dec 12 23:07	0°♒	
	6478 Jan 24 13:34	0°♓	
evening set	6478 Mar 01 10:39	26°♓45'17	
	6478 Mar 05 16:38	0°♈	
	6478 Apr 13 06:33	0°♉	
max. Earth dist.	6478 Apr 22 08:46	7°♉10'10	2.36838 AU
conjunction	6478 May 05 00:10	17°♉10'06	-0°38'54
minimum elong	6478 May 05 03:26	17°♉16'34	0°38'53
	6478 May 21 05:19	0°♊	
	6478 Jun 28 10:36	0°♋	
asc. node	6478 Jul 02 05:33	2°♋56'17	
morning rise	6478 Jul 16 13:38	13°♋57'49	
	6478 Aug 06 18:51	0°♌	
	6478 Sep 17 00:09	0°♍	
	6478 Oct 30 19:05	0°♎	
	6478 Dec 17 04:30	0°♏	
	6479 Feb 09 19:56	0°♐	
retrograde	6479 Apr 18 15:00	19°♐52'03	
opposition	6479 May 28 12:55	10°♐28'56	1°05'33
greatest brilliancy	6479 May 28 15:24	10°♐26'29	-1.3m
min. Earth dist.	6479 May 30 19:33	9°♐35'13	0.67297 AU
desc. node	6479 Jun 29 02:00	1°♐06'00	
direct	6479 Jul 09 02:11	0°♐28'13	
	6479 Oct 03 04:09	0°♑	
	6479 Nov 21 19:08	0°♒	
	6480 Jan 04 08:26	0°♓	
	6480 Feb 13 15:59	0°♈	
	6480 Mar 23 05:18	0°♉	
	6480 Apr 30 03:58	0°♊	
evening set	6480 May 10 06:03	7°♊57'18	
asc. node	6480 May 19 04:04	14°♊57'26	
	6480 Jun 07 11:51	0°♋	
conjunction	6480 Jul 17 07:42	0°♌12'09	0°38'18
minimum elong	6480 Jul 17 05:04	0°♌07'15	0°38'13
	6480 Jul 17 01:09	0°♌	
	6480 Aug 27 10:51	0°♍	
max. Earth dist.	6480 Aug 31 16:30	2°♍59'04	2.48386 AU
morning rise	6480 Sep 15 23:27	13°♍37'35	
	6480 Oct 10 01:46	0°♎	
	6480 Nov 25 03:07	0°♏	
	6481 Jan 13 03:10	0°♐	
	6481 Mar 08 17:42	0°♑	
desc. node	6481 May 16 00:37	23°♑52'20	
retrograde	6481 May 25 21:11	24°♑26'28	
opposition	6481 Jul 02 22:54	15°♑57'34	-1°47'50
greatest brilliancy	6481 Jul 03 07:32	15°♑49'20	-1.6m
min. Earth dist.	6481 Jul 08 22:42	13°♑40'54	0.60918 AU
direct	6481 Aug 13 01:17	6°♑04'30	
	6481 Oct 24 00:23	0°♒	
	6481 Dec 11 03:05	0°♓	
	6482 Jan 21 20:09	0°♈	
	6482 Mar 02 00:00	0°♉	
asc. node	6482 Apr 06 02:40	27°♉26'44	
	6482 Apr 09 09:10	0°♊	
	6482 May 18 04:25	0°♋	
	6482 Jun 27 06:56	0°♌	
evening set	6482 Jul 16 13:21	13°♌57'22	
	6482 Aug 08 05:53	0°♍	
conjunction	6482 Sep 10 05:36	22°♍37'28	1°07'18
minimum elong	6482 Sep 10 05:24	22°♍37'08	1°07'18
	6482 Sep 21 05:35	0°♎	
max. Earth dist.	6482 Oct 04 07:58	8°♎41'05	2.60075 AU
morning rise	6482 Oct 30 02:02	25°♎28'47	
	6482 Nov 06 02:30	0°♏	
	6482 Dec 23 14:04	0°♐	
	6483 Feb 10 17:45	0°♑	
desc. node	6483 Apr 02 23:13	29°♑28'21	
	6483 Apr 03 22:24	0°♒	
	6483 Jun 07 09:12	0°♓	
retrograde	6483 Jul 14 15:55	7°♓05'00	
opposition	6483 Aug 18 02:02	0°♓11'07	-5°08'03

	6483 Aug 18 14:58	30°℞♒	
greatest brilliancy	6483 Aug 19 14:46	29°♒39'28	-2.2m
min. Earth dist.	6483 Aug 26 15:58	27°♒14'23	0.48856 AU
direct	6483 Sep 24 22:22	21°♒42'11	
	6483 Oct 31 18:43	0°♓	
	6483 Dec 24 10:10	0°♈	
	6484 Feb 04 22:05	0°♉	
asc. node	6484 Feb 22 02:48	12°♉45'16	
	6484 Mar 16 02:44	0°♊	
	6484 Apr 25 07:21	0°♋	
	6484 Jun 05 15:24	0°♌	
	6484 Jul 18 16:22	0°♍	
	6484 Sep 01 12:04	0°♎	
evening set	6484 Sep 02 10:46	0°♎37'18	
	6484 Oct 17 18:30	0°♏	
conjunction	6484 Oct 20 14:33	1°♏49'01	0°54'30
minimum elong	6484 Oct 20 15:39	1°♏50'47	0°54'31
max. Earth dist.	6484 Oct 28 03:37	6°♏38'27	2.66659 AU
	6484 Dec 03 21:36	0°♐	
morning rise	6484 Dec 04 15:50	0°♐28'52	
	6485 Jan 20 08:20	0°♑	
desc. node	6485 Feb 17 21:48	18°♑01'46	
	6485 Mar 08 21:41	0°♒	
	6485 Apr 25 20:34	0°♓	
	6485 Jun 14 10:06	0°♈	
	6485 Aug 10 18:31	0°♉	
retrograde	6485 Sep 25 12:11	11°♉06'47	
opposition	6485 Oct 25 09:06	6°♉10'11	-5°05'52
greatest brilliancy	6485 Oct 26 02:18	5°♉58'41	-2.9m
min. Earth dist.	6485 Oct 28 05:46	5°♉24'15	0.37372 AU
direct	6485 Nov 24 19:55	0°♉57'45	
asc. node	6486 Jan 09 01:46	12°♉57'01	
	6486 Feb 09 15:03	0°♊	
	6486 Mar 28 20:00	0°♋	
	6486 May 13 00:57	0°♌	
	6486 Jun 27 15:04	0°♍	
	6486 Aug 13 03:28	0°♎	
	6486 Sep 29 09:35	0°♏	
evening set	6486 Oct 11 16:52	7°♏46'40	
	6486 Nov 15 19:09	0°♐	
max. Earth dist.	6486 Nov 19 23:07	2°♐38'49	2.67761 AU
conjunction	6486 Nov 25 20:00	6°♐22'57	0°21'18
minimum elong	6486 Nov 25 20:37	6°♐23'56	0°21'20
	6487 Jan 01 16:09	0°♑	
desc. node	6487 Jan 05 20:05	2°♑41'32	
morning rise	6487 Jan 08 15:24	4°♑30'32	
	6487 Feb 16 13:25	0°♒	
	6487 Apr 02 06:15	0°♓	
	6487 May 15 19:20	0°♈	
	6487 Jun 27 10:55	0°♉	
	6487 Aug 09 00:03	0°♊	
	6487 Sep 22 22:14	0°♋	
asc. node	6487 Nov 27 00:52	29°♋01'53	
retrograde	6487 Dec 08 01:25	29°♋54'55	
min. Earth dist.	6488 Jan 03 17:12	25°♋05'21	0.42702 AU
opposition	6488 Jan 11 19:22	22°♋25'26	2°52'06
greatest brilliancy	6488 Jan 10 20:49	22°♋44'08	-2.6m
direct	6488 Feb 12 08:17	16°♋17'39	
	6488 Apr 04 07:47	0°♌	
	6488 May 31 18:15	0°♍	
	6488 Jul 21 18:41	0°♎	
	6488 Sep 09 05:12	0°♏	
	6488 Oct 27 13:27	0°♐	
evening set	6488 Nov 15 22:12	12°♐15'17	
desc. node	6488 Nov 22 19:06	16°♐38'29	
max. Earth dist.	6488 Dec 12 06:52	29°♐12'50	2.63397 AU
	6488 Dec 13 11:53	0°♑	
conjunction	6488 Dec 31 02:26	11°♑32'36	-0°20'21
minimum elong	6488 Dec 31 01:48	11°♑31'32	0°20'17
	6489 Jan 27 16:28	0°♒	
morning rise	6489 Feb 14 23:53	12°♒31'13	
	6489 Mar 12 00:31	0°♓	
	6489 Apr 22 15:17	0°♈	
	6489 Jun 01 21:04	0°♉	
	6489 Jul 11 08:13	0°♊	
	6489 Aug 19 22:52	0°♋	
	6489 Sep 30 05:49	0°♌	
asc. node	6489 Oct 14 00:51	9°♌27'31	
	6489 Nov 15 16:44	0°♍	
retrograde	6490 Jan 24 11:19	24°♍35'41	
min. Earth dist.	6490 Feb 25 15:38	17°♍35'17	0.56131 AU
greatest brilliancy	6490 Mar 03 06:35	15°♍24'44	-1.8m
opposition	6490 Mar 04 11:19	14°♍56'52	4°59'45
direct	6490 Apr 09 17:19	6°♍46'54	
	6490 Jun 23 16:40	0°♎	
	6490 Aug 18 17:48	0°♏	
	6490 Oct 08 10:06	0°♐	
desc. node	6490 Oct 10 17:48	1°♐25'17	
	6490 Nov 25 02:29	0°♑	
evening set	6490 Dec 24 00:51	19°♑03'44	
	6491 Jan 09 04:17	0°♒	
max. Earth dist.	6491 Jan 09 12:31	0°♒14'06	2.53892 AU
conjunction	6491 Feb 10 19:05	22°♒46'54	-0°57'17
minimum elong	6491 Feb 10 17:46	22°♒44'32	0°57'15
	6491 Feb 20 20:47	0°♓	
	6491 Apr 02 13:02	0°♈	
morning rise	6491 Apr 05 11:08	2°♈12'09	
	6491 May 11 18:21	0°♉	
	6491 Jun 19 05:56	0°♊	
	6491 Jul 27 19:58	0°♋	
asc. node	6491 Aug 31 23:27	26°♋38'35	
	6491 Sep 05 12:09	0°♌	
	6491 Oct 17 12:45	0°♍	
	6491 Dec 03 05:22	0°♎	
	6492 Feb 05 17:18	0°♏	
retrograde	6492 Mar 01 20:37	3°♏44'03	
	6492 Mar 25 09:30	30°℞♎	
min. Earth dist.	6492 Apr 08 04:04	24°♎59'00	0.65280 AU
opposition	6492 Apr 11 05:21	23°♎45'57	4°02'13
greatest brilliancy	6492 Apr 10 19:17	23°♎55'59	-1.4m
direct	6492 May 20 16:31	14°♎27'42	
	6492 Jul 19 02:34	0°♏	
desc. node	6492 Aug 27 16:46	19°♏26'36	
	6492 Sep 15 19:08	0°♐	
	6492 Nov 04 16:29	0°♑	
	6492 Dec 20 07:38	0°♒	
	6493 Jan 31 20:26	0°♓	
evening set	6493 Feb 07 05:32	4°♓39'35	
max. Earth dist.	6493 Feb 25 02:39	17°♓55'41	2.40823 AU
	6493 Mar 13 01:33	0°♈	
conjunction	6493 Apr 06 23:50	19°♈13'57	-0°59'04
minimum elong	6493 Apr 07 02:03	19°♈18'16	0°59'03
	6493 Apr 20 18:10	0°♉	
	6493 May 28 18:58	0°♊	
morning rise	6493 Jun 15 17:23	14°♊07'49	
	6493 Jul 06 01:01	0°♋	
asc. node	6493 Jul 18 21:19	9°♋55'13	
	6493 Aug 14 09:08	0°♌	
	6493 Sep 24 15:24	0°♍	

	6493 Nov 07 17:24	0°♎	
	6493 Dec 26 08:34	0°♏	
	6494 Feb 26 13:25	0°♐	
retrograde	6494 Apr 05 01:51	7°♐18'30	
	6494 May 09 10:43	30°℞♏	
opposition	6494 May 15 08:37	27°♏41'09	2°02'29
greatest brilliancy	6494 May 15 10:22	27°♏39'26	-1.3m
min. Earth dist.	6494 May 16 03:41	27°♏22'17	0.68019 AU
direct	6494 Jun 25 14:40	17°♏47'19	
desc. node	6494 Jul 15 16:07	20°♏01'51	
	6494 Aug 15 16:41	0°♐	
	6494 Oct 13 10:10	0°♑	
	6494 Nov 30 03:20	0°♒	
	6495 Jan 12 04:24	0°♓	
	6495 Feb 21 08:53	0°♈	
	6495 Mar 31 21:25	0°♉	
evening set	6495 Apr 11 21:09	8°♉40'48	
	6495 May 08 19:08	0°♊	
asc. node	6495 Jun 05 21:01	22°♊05'39	
	6495 Jun 16 00:52	0°♋	
conjunction	6495 Jun 20 23:23	3°♋49'17	0°10'37
minimum elong	6495 Jun 20 22:19	3°♋47'13	0°10'33
behind sun begin	6495 Jun 19 23:46	3°♋03'39	
behind sun end	6495 Jun 21 20:53	4°♋30'44	
	6495 Jul 25 10:50	0°♌	
max. Earth dist.	6495 Aug 12 12:55	13°♌20'15	2.42859 AU
morning rise	6495 Aug 26 14:56	23°♌31'18	
	6495 Sep 04 17:13	0°♍	
	6495 Oct 18 07:15	0°♎	
	6495 Dec 03 15:40	0°♏	
	6496 Jan 22 22:07	0°♐	
	6496 Mar 23 20:02	0°♑	
retrograde	6496 May 10 04:12	10°♑40'04	
desc. node	6496 Jun 01 15:34	7°♑29'38	
opposition	6496 Jun 18 03:23	1°♑46'32	-0°36'09
greatest brilliancy	6496 Jun 18 05:35	1°♑44'24	-1.5m
	6496 Jun 22 17:34	30°℞♐	
min. Earth dist.	6496 Jun 22 17:06	0°♑00'27	0.64170 AU
direct	6496 Jul 29 15:44	21°♐45'03	
	6496 Sep 07 05:58	0°♑	
	6496 Nov 05 02:46	0°♒	
	6496 Dec 20 12:48	0°♓	
	6497 Jan 30 11:12	0°♈	
	6497 Mar 10 06:48	0°♉	
	6497 Apr 17 10:05	0°♊	
asc. node	6497 Apr 22 19:52	4°♊14'39	
	6497 May 25 23:20	0°♋	
evening set	6497 Jun 22 17:36	21°♋02'38	
	6497 Jul 04 19:02	0°♌	
	6497 Aug 15 11:11	0°♍	
conjunction	6497 Aug 22 02:01	4°♍37'54	1°02'37
minimum elong	6497 Aug 22 00:40	4°♍35'32	1°02'36
max. Earth dist.	6497 Sep 22 22:05	26°♍25'58	2.56048 AU
	6497 Sep 28 05:38	0°♎	
morning rise	6497 Oct 14 06:22	10°♎38'24	
	6497 Nov 13 01:53	0°♏	
	6497 Dec 30 22:29	0°♐	
	6498 Feb 19 09:53	0°♑	
	6498 Apr 17 06:32	0°♒	
desc. node	6498 Apr 19 14:02	1°♒03'59	
retrograde	6498 Jun 23 02:32	19°♒03'22	
opposition	6498 Jul 29 05:59	11°♒25'46	-3°50'36
greatest brilliancy	6498 Jul 30 06:59	11°♒03'04	-1.9m
min. Earth dist.	6498 Aug 06 04:09	8°♒33'26	0.54092 AU
direct	6498 Sep 06 20:22	2°♒09'23	

	6498 Nov 21 17:56	0°♓	
	6499 Jan 05 20:19	0°♈	
	6499 Feb 15 07:09	0°♉	
asc. node	6499 Mar 10 18:21	17°♉57'00	
	6499 Mar 26 10:56	0°♊	
	6499 May 04 21:43	0°♋	
	6499 Jun 14 14:41	0°♌	
	6499 Jul 27 02:53	0°♍	
evening set	6499 Aug 17 01:55	14°♍18'48	
	6499 Sep 09 12:44	0°♎	
conjunction	6499 Oct 06 11:40	17°♎40'27	1°02'44
minimum elong	6499 Oct 06 12:32	17°♎41'52	1°02'45
max. Earth dist.	6499 Oct 20 02:33	26°♎29'04	2.64730 AU
	6499 Oct 25 13:40	0°♏	
morning rise	6499 Nov 21 21:28	17°♏26'46	
	6499 Dec 11 17:44	0°♐	
	6500 Jan 28 15:48	0°♑	
desc. node	6500 Mar 07 12:09	23°♑20'50	
	6500 Mar 18 10:18	0°♒	
	6500 May 08 04:44	0°♓	
	6500 Jul 05 17:46	0°♈	
retrograde	6500 Aug 25 05:00	12°♈33'51	
opposition	6500 Sep 25 14:34	7°♈01'13	-6°15'01
greatest brilliancy	6500 Sep 27 05:38	6°♈32'08	-2.7m
min. Earth dist.	6500 Oct 02 15:31	4°♈56'33	0.40777 AU
direct	6500 Oct 29 00:34	0°♈32'38	
	6501 Jan 12 22:02	0°♉	
asc. node	6501 Jan 26 18:58	8°♉52'18	
	6501 Feb 26 21:24	0°♊	
	6501 Apr 10 13:25	0°♋	
	6501 May 23 13:31	0°♌	
	6501 Jul 06 19:47	0°♍	
	6501 Aug 21 12:08	0°♎	
evening set	6501 Sep 28 02:45	24°♎09'28	
	6501 Oct 07 06:44	0°♏	
max. Earth dist.	6501 Nov 12 02:49	22°♏46'07	2.67989 AU
conjunction	6501 Nov 13 00:36	23°♏20'42	0°35'42
minimum elong	6501 Nov 13 01:32	23°♏22'12	0°35'43
	6501 Nov 23 12:07	0°♐	
morning rise	6501 Dec 26 22:47	21°♐18'20	
	6502 Jan 09 12:31	0°♑	
desc. node	6502 Jan 23 10:34	8°♑57'05	
	6502 Feb 24 21:44	0°♒	
	6502 Apr 11 12:34	0°♓	
	6502 May 26 12:19	0°♈	
	6502 Jul 10 09:16	0°♉	
	6502 Aug 26 02:14	0°♊	
	6502 Oct 31 19:52	0°♋	
retrograde	6502 Nov 13 23:06	1°♋10'50	
	6502 Nov 26 22:41	30°℞♊	
min. Earth dist.	6502 Dec 10 06:21	26°♊48'09	0.38416 AU
asc. node	6502 Dec 14 19:13	25°♊29'47	
opposition	6502 Dec 15 21:43	25°♊10'34	0°04'50
greatest brilliancy	6502 Dec 15 21:17	25°♊10'53	-3.0m
direct	6503 Jan 14 16:30	19°♊57'19	
	6503 Feb 26 05:11	0°♋	
	6503 Apr 24 19:58	0°♌	
	6503 Jun 13 13:58	0°♍	
	6503 Aug 01 04:08	0°♎	
	6503 Sep 18 12:38	0°♏	
evening set	6503 Nov 03 21:18	29°♏02'34	
	6503 Nov 05 09:39	0°♐	
max. Earth dist.	6503 Dec 05 01:32	18°♐53'38	2.65740 AU
desc. node	6503 Dec 11 09:06	22°♐57'29	

conjunction	6503 Dec 18 16:52	27°♐41'38	-0°03'57
minimum elong	6503 Dec 18 16:46	27°♐41'27	0°03'54
behind sun begin	6503 Dec 17 22:31	27°♐11'55	
behind sun end	6503 Dec 19 11:00	28°♐11'00	
	6503 Dec 22 06:10	0°♑	
morning rise	6504 Feb 01 07:41	27°♑05'11	
	6504 Feb 05 15:49	0°♒	
	6504 Mar 20 10:11	0°♓	
	6504 May 01 15:05	0°♈	
	6504 Jun 11 12:59	0°♉	
	6504 Jul 21 17:54	0°♊	
	6504 Aug 31 07:50	0°♋	
	6504 Oct 13 14:24	0°♌	
asc. node	6504 Oct 31 17:13	11°♌15'47	
	6504 Dec 08 18:11	0°♍	
retrograde	6505 Jan 08 12:34	6°♍06'35	
min. Earth dist.	6505 Feb 07 09:13	29°♌57'42	0.51080 AU
	6505 Feb 07 06:41	30°℞♌	
greatest brilliancy	6505 Feb 13 23:33	27°♌30'17	-2.1m
opposition	6505 Feb 15 08:40	26°♌59'20	4°46'13
direct	6505 Mar 21 21:33	19°♌29'53	
	6505 May 06 13:43	0°♍	
	6505 Jul 06 20:46	0°♎	
	6505 Aug 28 05:34	0°♏	
	6505 Oct 16 17:47	0°♐	
desc. node	6505 Oct 28 07:57	7°♐13'26	
	6505 Dec 03 01:04	0°♑	
evening set	6505 Dec 09 15:46	4°♑18'30	
max. Earth dist.	6505 Dec 29 12:39	17°♑26'35	2.58186 AU
	6506 Jan 17 02:59	0°♒	
conjunction	6506 Jan 25 11:18	5°♒43'26	-0°44'49
minimum elong	6506 Jan 25 10:00	5°♒41'12	0°44'45
	6506 Mar 01 00:33	0°♓	
morning rise	6506 Mar 16 02:37	10°♓53'37	
	6506 Apr 11 00:20	0°♈	
	6506 May 20 13:28	0°♉	
	6506 Jun 28 07:56	0°♊	
	6506 Aug 06 04:12	0°♋	
	6506 Sep 15 04:36	0°♌	
asc. node	6506 Sep 18 16:02	2°♌31'57	
	6506 Oct 28 00:51	0°♍	
	6506 Dec 16 21:31	0°♎	
retrograde	6507 Feb 18 00:32	19°♎43'54	
min. Earth dist.	6507 Mar 25 12:04	11°♎34'55	0.62435 AU
greatest brilliancy	6507 Mar 29 08:15	10°♎03'26	-1.5m
opposition	6507 Mar 30 01:29	9°♎46'19	4°35'04
direct	6507 May 07 10:43	0°♎49'52	
	6507 Aug 03 06:50	0°♏	
desc. node	6507 Sep 15 07:13	23°♏32'10	
	6507 Sep 26 09:08	0°♐	
	6507 Nov 14 03:33	0°♑	
	6507 Dec 29 11:37	0°♒	
evening set	6508 Jan 20 17:28	15°♒27'37	
max. Earth dist.	6508 Feb 03 14:40	25°♒21'21	2.46100 AU
	6508 Feb 10 00:58	0°♓	
conjunction	6508 Mar 14 13:31	24°♓49'02	-1°05'56
minimum elong	6508 Mar 14 13:41	24°♓49'21	1°05'57
	6508 Mar 21 09:51	0°♈	
	6508 Apr 29 06:46	0°♉	
morning rise	6508 May 16 17:27	13°♉40'52	
	6508 Jun 06 10:53	0°♊	
	6508 Jul 14 18:53	0°♋	
asc. node	6508 Aug 05 15:13	16°♋47'05	
	6508 Aug 23 04:09	0°♌	
	6508 Oct 03 13:29	0°♍	
	6508 Nov 17 04:29	0°♎	
	6509 Jan 07 02:25	0°♏	
retrograde	6509 Mar 23 19:24	24°♏42'43	
opposition	6509 May 03 06:33	14°♏54'12	2°53'50
greatest brilliancy	6509 May 03 05:09	14°♏55'35	-1.3m
min. Earth dist.	6509 May 02 13:45	15°♏10'54	0.67741 AU
direct	6509 Jun 12 23:44	5°♏11'00	
desc. node	6509 Aug 02 06:51	16°♏56'57	
	6509 Aug 30 21:33	0°♐	
	6509 Oct 23 08:47	0°♑	
	6509 Dec 08 23:39	0°♒	
	6510 Jan 20 17:39	0°♓	
	6510 Mar 01 21:18	0°♈	
evening set	6510 Mar 16 12:04	11°♈16'08	
	6510 Apr 09 10:35	0°♉	
	6510 May 17 08:39	0°♊	
conjunction	6510 May 23 00:48	4°♊29'04	-0°22'02
minimum elong	6510 May 23 03:05	4°♊33'34	0°22'03
asc. node	6510 Jun 23 12:43	29°♊11'31	
	6510 Jun 24 13:41	0°♋	
max. Earth dist.	6510 Jul 04 14:53	7°♋46'18	2.37767 AU
morning rise	6510 Aug 02 14:17	29°♋45'55	
	6510 Aug 02 21:49	0°♌	
	6510 Sep 13 02:23	0°♍	
	6510 Oct 26 17:52	0°♎	
	6510 Dec 12 14:34	0°♏	
	6511 Feb 03 00:39	0°♐	
retrograde	6511 Apr 27 13:51	27°♐36'14	
opposition	6511 Jun 06 05:21	18°♐22'35	0°29'41
greatest brilliancy	6511 Jun 06 06:56	18°♐21'03	-1.4m
min. Earth dist.	6511 Jun 09 07:51	17°♐09'43	0.66475 AU
desc. node	6511 Jun 20 05:39	13°♐08'34	
direct	6511 Jul 17 20:22	8°♐19'56	
	6511 Sep 26 08:21	0°♑	
	6511 Nov 17 00:44	0°♒	
	6511 Dec 31 03:05	0°♓	
	6512 Feb 09 15:21	0°♈	
	6512 Mar 19 06:22	0°♉	
	6512 Apr 26 05:54	0°♊	
asc. node	6512 May 10 12:19	11°♊13'43	
evening set	6512 May 27 15:37	24°♊36'35	
	6512 Jun 03 14:45	0°♋	
	6512 Jul 13 05:10	0°♌	
conjunction	6512 Aug 01 05:44	13°♌57'15	0°49'56
minimum elong	6512 Aug 01 03:16	13°♌52'47	0°49'52
	6512 Aug 23 15:54	0°♍	
max. Earth dist.	6512 Sep 10 15:49	12°♍33'56	2.51296 AU
morning rise	6512 Sep 27 21:06	24°♍20'16	
	6512 Oct 06 06:49	0°♎	
	6512 Nov 21 04:40	0°♏	
	6513 Jan 08 15:31	0°♐	
	6513 Mar 02 05:37	0°♑	
desc. node	6513 May 07 04:09	28°♑43'42	
	6513 May 11 23:24	0°♒	
retrograde	6513 Jun 05 12:12	3°♒15'23	
	6513 Jun 28 08:53	30°℞♑	
opposition	6513 Jul 12 23:48	25°♑02'48	-2°31'46
greatest brilliancy	6513 Jul 13 13:36	24°♑49'50	-1.7m
min. Earth dist.	6513 Jul 19 17:38	22°♑31'02	0.58731 AU
direct	6513 Aug 22 16:51	15°♑18'50	
	6513 Oct 14 22:22	0°♒	
	6513 Dec 05 11:34	0°♓	
	6514 Jan 17 00:53	0°♈	
	6514 Feb 25 13:12	0°♉	
asc. node	6514 Mar 28 12:29	24°♉04'25	

	6514 Apr 05 03:18	0°♊	
	6514 May 14 02:34	0°♋	
	6514 Jun 23 08:34	0°♌	
evening set	6514 Jul 29 16:04	25°♌58'09	
	6514 Aug 04 10:36	0°♍	
	6514 Sep 17 12:29	0°♎	
conjunction	6514 Sep 21 05:04	2°♎27'18	1°07'03
minimum elong	6514 Sep 21 05:23	2°♎27'49	1°07'04
max. Earth dist.	6514 Oct 11 10:10	15°♎45'42	2.61951 AU
	6514 Nov 02 09:35	0°♏	
morning rise	6514 Nov 08 15:07	3°♏59'55	
	6514 Dec 19 17:02	0°♐	
	6515 Feb 06 07:31	0°♑	
desc. node	6515 Mar 25 02:21	27°♑48'17	
	6515 Mar 28 21:56	0°♒	
	6515 May 24 08:20	0°♓	
retrograde	6515 Jul 29 10:46	19°♓04'51	
opposition	6515 Aug 31 18:40	12°♓38'54	-5°45'10
greatest brilliancy	6515 Sep 02 12:03	12°♓04'40	-2.3m
min. Earth dist.	6515 Sep 09 06:30	9°♓51'13	0.45845 AU
direct	6515 Oct 07 06:29	4°♓46'53	
	6515 Dec 15 10:20	0°♈	
	6516 Jan 29 12:13	0°♉	
asc. node	6516 Feb 13 11:27	10°♉46'03	
	6516 Mar 10 16:57	0°♊	
	6516 Apr 20 12:13	0°♋	
	6516 Jun 01 06:51	0°♌	
	6516 Jul 14 15:43	0°♍	
	6516 Aug 28 17:04	0°♎	
evening set	6516 Sep 12 16:59	9°♎46'25	
	6516 Oct 14 02:39	0°♏	
conjunction	6516 Oct 29 21:55	10°♏05'29	0°48'15
minimum elong	6516 Oct 29 23:02	10°♏07'16	0°48'17
max. Earth dist.	6516 Nov 03 09:02	12°♏56'02	2.67357 AU
	6516 Nov 30 05:40	0°♐	
morning rise	6516 Dec 13 10:32	8°♐22'29	
	6517 Jan 16 11:57	0°♑	
desc. node	6517 Feb 09 00:26	14°♑58'18	
	6517 Mar 04 13:36	0°♒	
	6517 Apr 20 12:04	0°♓	
	6517 Jun 06 20:47	0°♈	
	6517 Jul 26 15:53	0°♉	
retrograde	6517 Oct 14 18:19	29°♉17'45	
opposition	6517 Nov 13 20:30	24°♉17'22	-3°29'23
min. Earth dist.	6517 Nov 13 10:20	24°♉24'08	0.36763 AU
greatest brilliancy	6517 Nov 13 23:23	24°♉15'27	-3.0m
direct	6517 Dec 13 08:47	19°♉23'29	
asc. node	6517 Dec 31 10:43	21°♉31'39	
	6518 Jan 25 04:00	0°♊	
	6518 Mar 20 22:14	0°♋	
	6518 May 07 07:22	0°♌	
	6518 Jun 22 22:30	0°♍	
	6518 Aug 09 01:00	0°♎	
	6518 Sep 25 14:58	0°♏	
evening set	6518 Oct 20 20:27	15°♏53'27	
	6518 Nov 12 03:53	0°♐	
max. Earth dist.	6518 Nov 26 02:40	8°♐52'05	2.67261 AU
conjunction	6518 Dec 04 18:02	14°♐23'11	0°12'15
minimum elong	6518 Dec 04 18:24	14°♐23'47	0°12'17
behind sun begin	6518 Dec 04 06:23	14°♐04'34	
behind sun end	6518 Dec 05 06:26	14°♐43'00	
desc. node	6518 Dec 27 23:14	29°♐19'15	
	6518 Dec 29 00:25	0°♑	
morning rise	6519 Jan 17 17:00	12°♑49'17	

	6519 Feb 12 17:10	0°♒	
	6519 Mar 29 01:17	0°♓	
	6519 May 11 01:28	0°♈	
	6519 Jun 21 23:13	0°♉	
	6519 Aug 02 09:49	0°♊	
	6519 Sep 13 23:24	0°♋	
	6519 Nov 02 05:04	0°♌	
asc. node	6519 Nov 18 10:47	7°♌21'51	
retrograde	6519 Dec 21 06:32	14°♌24'42	
min. Earth dist.	6520 Jan 17 21:40	9°♌09'21	0.45609 AU
greatest brilliancy	6520 Jan 25 02:06	6°♌39'22	-2.4m
opposition	6520 Jan 26 08:12	6°♌13'04	3°51'25
	6520 Feb 19 23:16	30°℞♋	
direct	6520 Feb 27 21:56	29°♋34'18	
	6520 Mar 07 02:41	0°♌	
	6520 May 24 13:45	0°♍	
	6520 Jul 16 19:48	0°♎	
	6520 Sep 05 02:29	0°♏	
	6520 Oct 23 19:31	0°♐	
desc. node	6520 Nov 13 22:31	13°♐19'32	
evening set	6520 Nov 25 01:09	20°♐25'19	
	6520 Dec 09 21:01	0°♑	
max. Earth dist.	6520 Dec 18 22:36	5°♑55'09	2.61741 AU
conjunction	6521 Jan 09 15:39	20°♑18'11	-0°29'43
minimum elong	6521 Jan 09 14:44	20°♑16'38	0°29'40
	6521 Jan 24 00:45	0°♒	
morning rise	6521 Feb 25 14:48	22°♒30'53	
	6521 Mar 08 05:01	0°♓	
	6521 Apr 18 14:11	0°♈	
	6521 May 28 13:32	0°♉	
	6521 Jul 06 17:44	0°♊	
	6521 Aug 15 00:07	0°♋	
	6521 Sep 24 15:51	0°♌	
asc. node	6521 Oct 05 08:32	7°♌33'21	
	6521 Nov 08 04:05	0°♍	
	6522 Jan 07 13:12	0°♎	
retrograde	6522 Feb 03 08:51	4°♎29'22	
	6522 Feb 28 16:43	30°℞♍	
min. Earth dist.	6522 Mar 08 18:53	27°♍02'33	0.58630 AU
opposition	6522 Mar 14 19:36	24°♍40'44	4°55'53
greatest brilliancy	6522 Mar 13 18:48	25°♍05'05	-1.7m
direct	6522 Apr 20 21:34	16°♍12'07	
	6522 Jun 14 14:18	0°♎	
	6522 Aug 13 15:16	0°♏	
desc. node	6522 Oct 01 21:16	28°♏32'21	
	6522 Oct 04 07:23	0°♐	
	6522 Nov 21 08:30	0°♑	
evening set	6523 Jan 03 05:47	28°♑25'54	
	6523 Jan 05 12:54	0°♒	
max. Earth dist.	6523 Jan 18 04:45	8°♒43'59	2.51258 AU
	6523 Feb 17 04:40	0°♓	
conjunction	6523 Feb 22 11:37	3°♓49'59	-1°02'28
minimum elong	6523 Feb 22 10:33	3°♓48'04	1°02'27
	6523 Mar 29 18:29	0°♈	
morning rise	6523 Apr 20 02:52	16°♈16'39	
	6523 May 07 20:42	0°♉	
	6523 Jun 15 05:02	0°♊	
	6523 Jul 23 16:01	0°♋	
asc. node	6523 Aug 23 07:05	23°♋21'51	
	6523 Sep 01 04:16	0°♌	
	6523 Oct 12 20:27	0°♍	
	6523 Nov 27 11:27	0°♎	
	6524 Jan 22 11:28	0°♏	
retrograde	6524 Mar 10 13:50	11°♏50'49	
min. Earth dist.	6524 Apr 17 20:03	2°♏47'29	0.66450 AU

opposition	6524 Apr 20 00:46	1°♏54'55	3°39'06
greatest brilliancy	6524 Apr 19 18:17	2°♏01'22	-1.3m
	6524 Apr 24 21:11	30°℞♎	
direct	6524 May 29 23:52	22°♎26'30	
	6524 Jul 08 01:54	0°♏	
desc. node	6524 Aug 18 20:24	18°♏02'37	
	6524 Sep 10 13:56	0°♐	
	6524 Oct 31 12:21	0°♑	
	6524 Dec 16 11:39	0°♒	
	6525 Jan 28 02:42	0°♓	
evening set	6525 Feb 20 08:44	17°♓10'01	
	6525 Mar 09 07:46	0°♈	
max. Earth dist.	6525 Mar 19 22:19	8°♈08'28	2.38262 AU
	6525 Apr 16 23:25	0°♉	
conjunction	6525 Apr 23 07:28	4°♉59'13	-0°49'18
minimum elong	6525 Apr 23 10:36	5°♉05'23	0°49'18
	6525 May 24 22:59	0°♊	
	6525 Jul 02 04:01	0°♋	
morning rise	6525 Jul 04 07:56	1°♋40'44	
asc. node	6525 Jul 10 06:53	6°♋17'15	
	6525 Aug 10 11:05	0°♌	
	6525 Sep 20 15:00	0°♍	
	6525 Nov 03 10:40	0°♎	
	6525 Dec 21 04:11	0°♏	
	6526 Feb 15 19:34	0°♐	
retrograde	6526 Apr 13 18:54	14°♐58'38	
opposition	6526 May 23 21:36	5°♐28'49	1°29'47
greatest brilliancy	6526 May 24 00:03	5°♐26'24	-1.3m
min. Earth dist.	6526 May 25 12:48	4°♐50'09	0.67750 AU
	6526 Jun 07 15:02	30°℞♏	
direct	6526 Jul 04 08:20	25°♏30'29	
desc. node	6526 Jul 06 19:47	25°♏32'43	
	6526 Aug 02 09:06	0°♐	
	6526 Oct 07 23:07	0°♑	
	6526 Nov 25 18:33	0°♒	
	6527 Jan 08 03:40	0°♓	
	6527 Feb 17 10:54	0°♈	
	6527 Mar 28 00:21	0°♉	
evening set	6527 Apr 29 07:04	25°♉32'11	
	6527 May 04 22:27	0°♊	
asc. node	6527 May 28 05:39	18°♊20'36	
	6527 Jun 12 04:49	0°♋	
conjunction	6527 Jul 07 19:12	19°♋36'15	0°27'25
minimum elong	6527 Jul 07 16:52	19°♋31'51	0°27'21
	6527 Jul 21 15:37	0°♌	
max. Earth dist.	6527 Aug 25 18:22	25°♌36'57	2.45935 AU
	6527 Aug 31 22:19	0°♍	
morning rise	6527 Sep 09 02:31	5°♍45'35	
	6527 Oct 14 11:11	0°♎	
	6527 Nov 29 13:21	0°♏	
	6528 Jan 17 22:39	0°♐	
	6528 Mar 14 08:59	0°♑	
retrograde	6528 May 19 22:44	18°♑54'03	
desc. node	6528 May 23 18:17	18°♑48'42	
opposition	6528 Jun 27 11:08	10°♑13'31	-1°17'07
greatest brilliancy	6528 Jun 27 16:38	10°♑08'14	-1.5m
min. Earth dist.	6528 Jul 02 20:15	8°♑09'46	0.62501 AU
direct	6528 Aug 07 19:22	0°♑15'23	
	6528 Oct 29 20:23	0°♒	
	6528 Dec 15 16:37	0°♓	
	6529 Jan 26 01:48	0°♈	
	6529 Mar 06 02:08	0°♉	
	6529 Apr 13 08:10	0°♊	
asc. node	6529 Apr 14 04:11	0°♊39'12	
	6529 May 21 23:54	0°♋	
	6529 Jun 30 22:11	0°♌	
evening set	6529 Jul 07 14:14	4°♌53'19	
	6529 Aug 11 16:37	0°♍	
conjunction	6529 Sep 03 05:51	15°♍36'36	1°06'10
minimum elong	6529 Sep 03 05:11	15°♍35'28	1°06'09
	6529 Sep 24 12:40	0°♎	
max. Earth dist.	6529 Sep 30 14:43	4°♎03'31	2.58375 AU
morning rise	6529 Oct 24 11:01	19°♎44'28	
	6529 Nov 09 07:52	0°♏	
	6529 Dec 26 21:52	0°♐	
	6530 Feb 14 12:36	0°♑	
	6530 Apr 09 05:20	0°♒	
desc. node	6530 Apr 10 16:35	0°♒45'34	
retrograde	6530 Jul 05 21:33	29°♒25'58	
opposition	6530 Aug 10 02:40	22°♒11'21	-4°35'37
greatest brilliancy	6530 Aug 11 10:32	21°♒43'08	-2.0m
min. Earth dist.	6530 Aug 18 11:20	19°♒14'09	0.51265 AU
direct	6530 Sep 17 20:08	13°♒18'05	
	6530 Nov 12 01:33	0°♓	
	6530 Dec 30 14:30	0°♈	
	6531 Feb 10 01:20	0°♉	
asc. node	6531 Mar 02 04:20	15°♉10'12	
	6531 Mar 21 17:05	0°♊	
	6531 Apr 30 12:04	0°♋	
	6531 Jun 10 11:44	0°♌	
	6531 Jul 23 05:14	0°♍	
evening set	6531 Aug 28 04:06	24°♍16'58	
	6531 Sep 05 19:12	0°♎	
conjunction	6531 Oct 16 05:35	26°♎20'33	0°58'20
minimum elong	6531 Oct 16 06:38	26°♎22'15	0°58'21
	6531 Oct 21 22:07	0°♏	
max. Earth dist.	6531 Oct 26 12:12	2°♏56'30	2.65898 AU
morning rise	6531 Nov 30 19:42	25°♏25'47	
	6531 Dec 08 00:56	0°♐	
	6532 Jan 24 16:03	0°♑	
desc. node	6532 Feb 26 15:36	20°♑38'23	
	6532 Mar 12 16:36	0°♒	
	6532 Apr 30 15:55	0°♓	
	6532 Jun 21 19:31	0°♈	
retrograde	6532 Sep 12 00:56	28°♈29'59	
opposition	6532 Oct 12 09:06	23°♈22'16	-5°51'35
greatest brilliancy	6532 Oct 13 14:11	23°♈02'04	-2.8m
min. Earth dist.	6532 Oct 17 11:39	21°♈57'26	0.38583 AU
direct	6532 Nov 13 00:35	17°♈40'27	
	6532 Dec 28 14:25	0°♉	
asc. node	6533 Jan 17 03:40	10°♉20'45	
	6533 Feb 17 22:33	0°♊	
	6533 Apr 03 13:41	0°♋	
	6533 May 17 14:39	0°♌	
	6533 Jul 01 11:56	0°♍	
	6533 Aug 16 13:57	0°♎	
	6533 Oct 02 14:04	0°♏	
evening set	6533 Oct 06 12:21	2°♏29'31	
max. Earth dist.	6533 Nov 17 05:03	28°♏55'45	2.67970 AU
	6533 Nov 18 21:30	0°♐	
conjunction	6533 Nov 20 22:18	1°♐17'29	0°27'28
minimum elong	6533 Nov 20 23:04	1°♐18'43	0°27'30
morning rise	6534 Jan 03 17:34	29°♐17'01	
	6534 Jan 04 20:16	0°♑	
desc. node	6534 Jan 13 14:01	5°♑38'22	
	6534 Feb 19 22:59	0°♒	
	6534 Apr 06 01:25	0°♓	
	6534 May 20 04:35	0°♈	
	6534 Jul 02 15:58	0°♉	

	6534 Aug 15 12:33	0°♊	
	6534 Oct 02 20:39	0°♋	
retrograde	6534 Nov 28 16:59	18°♋25'35	
asc. node	6534 Dec 05 02:24	18°♋07'24	
min. Earth dist.	6534 Dec 24 22:08	13°♋52'32	0.40563 AU
opposition	6535 Jan 01 06:06	11°♋35'22	1°50'22
greatest brilliancy	6534 Dec 31 16:18	11°♋46'12	-2.8m
direct	6535 Jan 31 23:09	5°♋53'18	
	6535 Apr 14 17:36	0°♌	
	6535 Jun 06 20:17	0°♍	
	6535 Jul 26 15:49	0°♎	
	6535 Sep 13 13:58	0°♏	
	6535 Oct 31 17:17	0°♐	
evening set	6535 Nov 11 21:25	7°♐03'36	
desc. node	6535 Dec 01 12:39	19°♐35'18	
max. Earth dist.	6535 Dec 10 10:12	25°♐19'10	2.64554 AU
	6535 Dec 17 15:35	0°♑	
conjunction	6535 Dec 26 20:06	5°♑59'35	-0°13'30
minimum elong	6535 Dec 26 19:41	5°♑58'53	0°13'27
behind sun begin	6535 Dec 26 09:14	5°♑41'48	
behind sun end	6535 Dec 27 06:08	6°♑15'58	
	6536 Jan 31 23:14	0°♒	
morning rise	6536 Feb 10 01:46	6°♒10'15	
	6536 Mar 15 12:45	0°♓	
	6536 Apr 26 10:18	0°♈	
	6536 Jun 05 23:25	0°♉	
	6536 Jul 15 17:36	0°♊	
	6536 Aug 24 16:19	0°♋	
	6536 Oct 05 13:27	0°♌	
asc. node	6536 Oct 22 02:16	11°♌00'11	
	6536 Nov 23 05:07	0°♍	
retrograde	6537 Jan 18 10:36	17°♍25'36	
min. Earth dist.	6537 Feb 18 13:43	10°♍47'41	0.53949 AU
opposition	6537 Feb 25 23:03	7°♍58'33	4°58'17
greatest brilliancy	6537 Feb 24 15:48	8°♍28'27	-1.9m
direct	6537 Apr 02 11:50	0°♍05'25	
	6537 Jun 29 08:19	0°♎	
	6537 Aug 22 14:46	0°♏	
	6537 Oct 11 18:57	0°♐	
desc. node	6537 Oct 18 11:22	4°♐07'23	
	6537 Nov 28 08:23	0°♑	
evening set	6537 Dec 18 07:27	13°♑04'28	
max. Earth dist.	6538 Jan 05 03:47	25°♑01'38	2.55897 AU
	6538 Jan 12 11:23	0°♒	
conjunction	6538 Feb 04 02:01	15°♒38'54	-0°52'28
minimum elong	6538 Feb 04 00:39	15°♒36'31	0°52'25
	6538 Feb 24 07:16	0°♓	
morning rise	6538 Mar 27 18:02	22°♓58'59	
	6538 Apr 06 03:41	0°♈	
	6538 May 15 13:05	0°♉	
	6538 Jun 23 03:43	0°♊	
	6538 Jul 31 19:53	0°♋	
asc. node	6538 Sep 09 01:25	29°♋36'24	
	6538 Sep 09 14:14	0°♌	
	6538 Oct 21 19:48	0°♍	
	6538 Dec 08 09:35	0°♎	
retrograde	6539 Feb 26 01:05	28°♎20'34	
min. Earth dist.	6539 Apr 03 13:32	19°♎50'42	0.64121 AU
opposition	6539 Apr 07 06:35	18°♎21'59	4°17'19
greatest brilliancy	6539 Apr 06 17:30	18°♎35'02	-1.4m
direct	6539 May 16 06:23	9°♎12'48	
	6539 Jul 26 05:17	0°♏	
desc. node	6539 Sep 05 10:21	21°♏19'55	
	6539 Sep 20 17:25	0°♐	
	6539 Nov 09 04:10	0°♑	
	6539 Dec 24 17:39	0°♒	
evening set	6540 Jan 31 11:08	26°♒28'37	
	6540 Feb 05 08:01	0°♓	
max. Earth dist.	6540 Feb 15 08:34	7°♓19'20	2.43153 AU
	6540 Mar 16 15:41	0°♈	
conjunction	6540 Mar 27 20:44	8°♈34'28	-1°03'33
minimum elong	6540 Mar 27 22:02	8°♈36'57	1°03'34
	6540 Apr 24 10:46	0°♉	
	6540 Jun 01 13:00	0°♊	
morning rise	6540 Jun 02 21:19	1°♊03'43	
	6540 Jul 09 19:23	0°♋	
asc. node	6540 Jul 26 23:03	13°♋13'32	
	6540 Aug 18 03:01	0°♌	
	6540 Sep 28 08:49	0°♍	
	6540 Nov 11 13:35	0°♎	
	6540 Dec 30 20:16	0°♏	
	6541 Mar 10 19:58	0°♐	
retrograde	6541 Mar 31 09:46	2°♐26'05	
	6541 Apr 19 18:18	30°℞♏	
opposition	6541 May 10 19:00	22°♏43'27	2°24'27
greatest brilliancy	6541 May 10 19:38	22°♏42'50	-1.3m
min. Earth dist.	6541 May 10 22:28	22°♏40'01	0.68020 AU
direct	6541 Jun 20 19:39	12°♏53'46	
desc. node	6541 Jul 23 09:46	18°♏22'47	
	6541 Aug 22 09:27	0°♐	
	6541 Oct 17 14:05	0°♑	
	6541 Dec 03 21:04	0°♒	
	6542 Jan 15 20:31	0°♓	
	6542 Feb 25 01:40	0°♈	
evening set	6542 Mar 31 12:23	26°♈45'43	
	6542 Apr 04 15:06	0°♉	
	6542 May 12 12:51	0°♊	
conjunction	6542 Jun 09 00:47	21°♊39'30	-0°03'31
minimum elong	6542 Jun 09 01:09	21°♊40'13	0°03'33
behind sun begin	6542 Jun 07 19:34	20°♊42'21	
behind sun end	6542 Jun 10 06:44	22°♊38'03	
asc. node	6542 Jun 13 22:02	25°♊28'30	
	6542 Jun 19 17:36	0°♋	
	6542 Jul 29 01:44	0°♌	
max. Earth dist.	6542 Jul 31 18:15	2°♌00'19	2.40417 AU
morning rise	6542 Aug 17 05:16	14°♌08'46	
	6542 Sep 08 05:47	0°♍	
	6542 Oct 21 18:39	0°♎	
	6542 Dec 07 05:40	0°♏	
	6543 Jan 27 03:52	0°♐	
	6543 Apr 03 06:48	0°♑	
retrograde	6543 May 05 19:24	5°♑29'39	
	6543 Jun 04 14:22	30°℞♐	
desc. node	6543 Jun 10 09:01	27°♐53'06	
opposition	6543 Jun 14 02:40	26°♐26'44	-0°08'05
greatest brilliancy	6543 Jun 14 03:09	26°♐26'16	-1.4m
min. Earth dist.	6543 Jun 18 01:09	24°♐54'52	0.65319 AU
direct	6543 Jul 25 17:01	16°♐23'52	
	6543 Sep 16 17:02	0°♑	
	6543 Nov 10 19:48	0°♒	
	6543 Dec 25 16:40	0°♓	
	6544 Feb 04 11:26	0°♈	
	6544 Mar 14 05:33	0°♉	
	6544 Apr 21 07:02	0°♊	
asc. node	6544 Apr 30 21:32	7°♊33'11	
	6544 May 29 17:36	0°♋	
evening set	6544 Jun 12 06:48	10°♋22'38	
	6544 Jul 08 09:52	0°♌	
conjunction	6544 Aug 13 23:10	26°♌29'43	0°58'18

minimum elong	6544 Aug 13 21:18	26°♌26'23	0°58'15
	6544 Aug 18 22:07	0°♍	
max. Earth dist.	6544 Sep 18 11:59	21°♍10'34	2.53999 AU
	6544 Oct 01 13:31	0°♎	
morning rise	6544 Oct 07 23:42	4°♎17'38	
	6544 Nov 16 08:48	0°♏	
	6545 Jan 03 09:41	0°♐	
	6545 Feb 23 14:04	0°♑	
	6545 Apr 24 19:09	0°♒	
desc. node	6545 Apr 27 07:33	1°♒01'00	
retrograde	6545 Jun 15 18:39	12°♒29'42	
opposition	6545 Jul 22 13:05	4°♒35'36	-3°16'49
greatest brilliancy	6545 Jul 23 09:02	4°♒17'11	-1.8m
min. Earth dist.	6545 Jul 29 23:33	1°♒50'57	0.56253 AU
	6545 Aug 04 06:26	30°℞♑	
direct	6545 Aug 31 17:02	25°♑04'39	
	6545 Sep 29 07:58	0°♒	
	6545 Nov 28 00:36	0°♓	
	6546 Jan 10 20:16	0°♈	
	6546 Feb 19 20:23	0°♉	
asc. node	6546 Mar 18 19:59	20°♉48'33	
	6546 Mar 30 17:18	0°♊	
	6546 May 08 21:47	0°♋	
	6546 Jun 18 08:39	0°♌	
	6546 Jul 30 14:52	0°♍	
evening set	6546 Aug 09 23:32	7°♍08'55	
	6546 Sep 12 19:55	0°♎	
conjunction	6546 Sep 30 15:41	11°♎45'49	1°05'04
minimum elong	6546 Sep 30 16:22	11°♎46'56	1°05'06
max. Earth dist.	6546 Oct 17 02:58	22°♎29'39	2.63597 AU
	6546 Oct 28 17:58	0°♏	
morning rise	6546 Nov 16 20:43	12°♏13'55	
	6546 Dec 14 22:41	0°♐	
	6547 Feb 01 02:48	0°♑	
desc. node	6547 Mar 15 05:42	25°♑37'47	
	6547 Mar 22 13:27	0°♒	
	6547 May 14 03:53	0°♓	
	6547 Jul 24 21:44	0°♈	
retrograde	6547 Aug 13 10:05	2°♈12'21	
	6547 Sep 01 07:39	30°℞♓	
opposition	6547 Sep 14 17:00	26°♓15'49	-6°09'44
greatest brilliancy	6547 Sep 16 11:19	25°♓42'37	-2.5m
min. Earth dist.	6547 Sep 22 16:41	23°♓46'50	0.42936 AU
direct	6547 Oct 19 13:35	19°♓07'58	
	6547 Nov 30 18:30	0°♈	
	6548 Jan 20 21:27	0°♉	
asc. node	6548 Feb 03 20:04	9°♉31'26	
	6548 Mar 03 17:47	0°♊	
	6548 Apr 14 09:32	0°♋	
	6548 May 26 17:56	0°♌	
	6548 Jul 09 12:40	0°♍	
	6548 Aug 23 21:04	0°♎	
evening set	6548 Sep 21 15:17	18°♎35'41	
	6548 Oct 09 10:46	0°♏	
conjunction	6548 Nov 07 01:08	18°♏12'23	0°41'10
minimum elong	6548 Nov 07 02:10	18°♏14'03	0°41'12
max. Earth dist.	6548 Nov 08 11:36	19°♏07'08	2.67820 AU
	6548 Nov 25 14:50	0°♐	
morning rise	6548 Dec 21 04:11	16°♐14'43	
	6549 Jan 11 17:45	0°♑	
desc. node	6549 Jan 30 04:12	11°♑48'30	
	6549 Feb 27 09:57	0°♒	
	6549 Apr 14 13:52	0°♓	
	6549 May 30 11:10	0°♈	
	6549 Jul 15 22:38	0°♉	
	6549 Sep 04 21:10	0°♊	
retrograde	6549 Nov 01 07:58	17°♊49'06	
min. Earth dist.	6549 Nov 28 14:46	13°♊21'40	0.37263 AU
opposition	6549 Dec 02 04:29	12°♊23'01	-1°28'15
greatest brilliancy	6549 Dec 02 01:35	12°♊24'59	-3.0m
asc. node	6549 Dec 21 20:33	8°♊02'44	
direct	6549 Dec 31 11:47	7°♊25'40	
	6550 Mar 09 12:49	0°♋	
	6550 Apr 29 20:46	0°♌	
	6550 Jun 16 23:29	0°♍	
	6550 Aug 03 19:45	0°♎	
	6550 Sep 20 19:09	0°♏	
evening set	6550 Oct 28 22:06	23°♏55'51	
	6550 Nov 07 12:37	0°♐	
max. Earth dist.	6550 Dec 01 07:51	15°♐08'30	2.66530 AU
conjunction	6550 Dec 12 16:54	22°♐26'39	0°02'55
minimum elong	6550 Dec 12 17:00	22°♐26'49	0°02'58
behind sun begin	6550 Dec 11 22:40	21°♐57'20	
behind sun end	6550 Dec 13 11:20	22°♐56'19	
desc. node	6550 Dec 18 02:21	25°♐55'18	
	6550 Dec 24 09:38	0°♑	
morning rise	6551 Jan 25 22:44	21°♑19'52	
	6551 Feb 07 22:59	0°♒	
	6551 Mar 24 00:03	0°♓	
	6551 May 05 13:32	0°♈	
	6551 Jun 15 21:36	0°♉	
	6551 Jul 26 13:46	0°♊	
	6551 Sep 05 19:23	0°♋	
	6551 Oct 20 15:16	0°♌	
asc. node	6551 Nov 08 18:57	10°♌57'57	
retrograde	6552 Jan 01 13:12	27°♌37'31	
min. Earth dist.	6552 Jan 30 08:11	21°♌53'16	0.48649 AU
greatest brilliancy	6552 Feb 06 06:57	19°♌22'12	-2.2m
opposition	6552 Feb 07 16:06	18°♌52'00	4°29'40
direct	6552 Mar 12 08:59	11°♌43'59	
	6552 May 14 13:19	0°♍	
	6552 Jul 10 10:48	0°♎	
	6552 Aug 30 19:48	0°♏	
	6552 Oct 18 23:48	0°♐	
desc. node	6552 Nov 04 01:07	10°♐03'19	
evening set	6552 Dec 03 07:55	28°♐46'10	
	6552 Dec 05 05:27	0°♑	
max. Earth dist.	6552 Dec 24 23:08	12°♑56'21	2.59876 AU
conjunction	6553 Jan 18 12:19	29°♑24'26	-0°38'42
minimum elong	6553 Jan 18 11:09	29°♑22'27	0°38'39
	6553 Jan 19 09:14	0°♒	
	6553 Mar 03 10:56	0°♓	
morning rise	6553 Mar 07 19:21	3°♓06'34	
	6553 Apr 13 15:36	0°♈	
	6553 May 23 09:43	0°♉	
	6553 Jul 01 08:21	0°♊	
	6553 Aug 09 08:03	0°♋	
	6553 Sep 18 13:00	0°♌	
asc. node	6553 Sep 25 17:21	5°♌10'45	
	6553 Oct 31 20:27	0°♍	
	6553 Dec 23 01:52	0°♎	
retrograde	6554 Feb 11 21:48	13°♎51'49	
min. Earth dist.	6554 Mar 18 11:46	6°♎00'28	0.60850 AU
opposition	6554 Mar 23 16:39	3°♎56'58	4°45'50
greatest brilliancy	6554 Mar 22 20:05	4°♎17'20	-1.6m
	6554 Apr 03 05:58	30°℞♍	
direct	6554 Apr 30 12:08	25°♍12'01	
	6554 May 30 13:34	0°♎	
	6554 Aug 06 23:48	0°♏	
desc. node	6554 Sep 22 00:22	25°♏51'45	

	6554 Sep 28 23:59	0°♐	
	6554 Nov 16 11:57	0°♑	
	6554 Dec 31 19:42	0°♒	
evening set	6555 Jan 12 23:24	8°♒22'18	
max. Earth dist.	6555 Jan 26 23:20	18°♒11'22	2.48456 AU
	6555 Feb 12 11:31	0°♓	
conjunction	6555 Mar 06 01:07	15°♓48'14	-1°05'31
minimum elong	6555 Mar 06 00:38	15°♓47'20	1°05'30
	6555 Mar 24 23:34	0°♈	
	6555 May 02 23:31	0°♉	
morning rise	6555 May 05 03:16	1°♉40'52	
	6555 Jun 10 05:41	0°♊	
	6555 Jul 18 14:26	0°♋	
greatest brilliancy	6555 Jul 22 03:58	2°♋45'28	1.2m
asc. node	6555 Aug 13 16:50	20°♋00'31	
	6555 Aug 26 23:51	0°♌	
	6555 Oct 07 10:02	0°♍	
	6555 Nov 21 07:05	0°♎	
	6556 Jan 12 13:57	0°♏	
retrograde	6556 Mar 18 04:46	19°♏45'44	
min. Earth dist.	6556 Apr 26 07:32	10°♏25'55	0.67285 AU
opposition	6556 Apr 27 16:05	9°♏53'28	3°13'28
greatest brilliancy	6556 Apr 27 12:40	9°♏56'52	-1.3m
direct	6556 Jun 07 01:20	0°♏16'18	
desc. node	6556 Aug 09 00:12	17°♏23'17	
	6556 Sep 03 19:03	0°♐	
	6556 Oct 26 03:36	0°♑	
	6556 Dec 11 13:00	0°♒	
	6557 Jan 23 07:09	0°♓	
	6557 Mar 04 12:19	0°♈	
evening set	6557 Mar 05 14:04	0°♈49'13	
	6557 Apr 12 03:12	0°♉	
conjunction	6557 May 09 19:22	21°♉51'59	-0°35'06
minimum elong	6557 May 09 22:30	21°♉58'12	0°35'07
max. Earth dist.	6557 May 08 18:11	21°♉02'10	2.36708 AU
	6557 May 20 01:59	0°♊	
	6557 Jun 27 06:29	0°♋	
asc. node	6557 Jun 30 14:14	2°♋34'48	
morning rise	6557 Jul 21 07:09	18°♋29'15	
	6557 Aug 05 13:12	0°♌	
	6557 Sep 15 16:05	0°♍	
	6557 Oct 29 07:15	0°♎	
	6557 Dec 15 09:22	0°♏	
	6558 Feb 07 00:56	0°♐	
retrograde	6558 Apr 21 14:31	22°♐39'35	
opposition	6558 May 31 11:45	13°♐18'22	0°55'16
greatest brilliancy	6558 May 31 14:02	13°♐16'08	-1.3m
min. Earth dist.	6558 Jun 02 22:48	12°♐20'22	0.67173 AU
desc. node	6558 Jun 26 23:21	4°♐43'55	
direct	6558 Jul 12 01:29	3°♐16'55	
	6558 Sep 30 19:18	0°♑	
	6558 Nov 20 04:28	0°♒	
	6559 Jan 03 00:34	0°♓	
	6559 Feb 12 11:24	0°♈	
	6559 Mar 23 02:06	0°♉	
	6559 Apr 30 00:49	0°♊	
evening set	6559 May 15 23:07	12°♊33'21	
greatest brilliancy	6559 May 17 03:51	13°♊29'47	1.2m
asc. node	6559 May 18 13:27	14°♊35'39	
	6559 Jun 07 07:45	0°♋	
	6559 Jul 16 19:27	0°♌	
conjunction	6559 Jul 22 15:42	4°♌19'59	0°41'32
minimum elong	6559 Jul 22 13:01	4°♌15'01	0°41'28
	6559 Aug 27 03:03	0°♍	

max. Earth dist.	6559 Sep 04 23:11	6°♍13'27	2.48964 AU
morning rise	6559 Sep 20 16:23	17°♍07'22	
	6559 Oct 09 15:29	0°♎	
	6559 Nov 24 13:27	0°♏	
	6560 Jan 12 07:13	0°♐	
	6560 Mar 06 02:14	0°♑	
desc. node	6560 May 13 21:39	26°♑05'53	
retrograde	6560 May 29 04:02	27°♑25'17	
opposition	6560 Jul 06 03:32	18°♑59'29	-1°59'41
greatest brilliancy	6560 Jul 06 13:24	18°♑50'07	-1.6m
min. Earth dist.	6560 Jul 12 07:08	16°♑39'28	0.60540 AU
direct	6560 Aug 16 04:37	9°♑07'37	
	6560 Oct 21 07:28	0°♒	
	6560 Dec 09 10:54	0°♓	
	6561 Jan 20 11:34	0°♈	
	6561 Feb 28 18:33	0°♉	
asc. node	6561 Apr 04 14:01	27°♉10'51	
	6561 Apr 08 04:39	0°♊	
	6561 May 16 23:29	0°♋	
	6561 Jun 26 00:41	0°♌	
evening set	6561 Jul 20 11:12	17°♌40'48	
	6561 Aug 06 21:51	0°♍	
conjunction	6561 Sep 13 17:20	25°♍54'51	1°07'24
minimum elong	6561 Sep 13 17:16	25°♍54'44	1°07'24
	6561 Sep 19 19:41	0°♎	
max. Earth dist.	6561 Oct 06 23:31	11°♎22'35	2.60454 AU
morning rise	6561 Nov 02 06:38	28°♎29'43	
	6561 Nov 04 14:42	0°♏	
	6561 Dec 21 23:54	0°♐	
	6562 Feb 08 22:56	0°♑	
desc. node	6562 Mar 31 19:54	29°♑33'44	
	6562 Apr 01 14:49	0°♒	
	6562 Jun 01 19:25	0°♓	
retrograde	6562 Jul 18 17:05	10°♓37'07	
opposition	6562 Aug 21 21:47	3°♓48'14	-5°17'26
greatest brilliancy	6562 Aug 23 11:44	3°♓15'41	-2.2m
min. Earth dist.	6562 Aug 30 11:09	0°♓52'59	0.48286 AU
	6562 Sep 02 04:34	30°℞♒	
direct	6562 Sep 28 11:35	25°♒25'35	
	6562 Oct 25 03:39	0°♓	
	6562 Dec 22 03:49	0°♈	
	6563 Feb 03 05:51	0°♉	
asc. node	6563 Feb 20 13:14	12°♉45'17	
	6563 Mar 15 15:24	0°♊	
	6563 Apr 24 21:47	0°♋	
	6563 Jun 05 06:04	0°♌	
	6563 Jul 18 06:25	0°♍	
	6563 Sep 01 01:14	0°♎	
evening set	6563 Sep 06 18:30	3°♎45'17	
	6563 Oct 17 06:49	0°♏	
conjunction	6563 Oct 24 17:18	4°♏45'49	0°52'47
minimum elong	6563 Oct 24 18:25	4°♏47'37	0°52'49
max. Earth dist.	6563 Oct 31 19:32	9°♏17'41	2.66806 AU
	6563 Dec 03 09:13	0°♐	
morning rise	6563 Dec 08 15:40	3°♐20'21	
	6564 Jan 19 18:55	0°♑	
desc. node	6564 Feb 16 18:18	17°♑41'21	
	6564 Mar 07 05:53	0°♒	
	6564 Apr 23 23:11	0°♓	
	6564 Jun 11 22:24	0°♈	
	6564 Aug 05 13:26	0°♉	
retrograde	6564 Sep 30 09:42	15°♉48'39	
opposition	6564 Oct 30 07:43	10°♉53'03	-4°46'47
greatest brilliancy	6564 Oct 30 21:45	10°♉43'39	-3.0m
min. Earth dist.	6564 Nov 01 13:30	10°♉17'06	0.37159 AU

direct	6564 Nov 29 13:38	5°♉45'46	
asc. node	6565 Jan 07 12:03	14°♉55'06	
	6565 Feb 06 07:42	0°♊	
	6565 Mar 26 16:38	0°♋	
	6565 May 11 06:08	0°♌	
	6565 Jun 25 23:39	0°♍	
	6565 Aug 11 13:35	0°♎	
	6565 Sep 27 20:34	0°♏	
evening set	6565 Oct 14 18:30	10°♏41'04	
	6565 Nov 14 06:55	0°♐	
max. Earth dist.	6565 Nov 22 08:21	5°♐07'16	2.67682 AU
conjunction	6565 Nov 28 20:15	9°♐15'26	0°18'42
minimum elong	6565 Nov 28 20:48	9°♐16'19	0°18'45
	6565 Dec 31 04:35	0°♑	
desc. node	6566 Jan 03 16:52	2°♑16'08	
morning rise	6566 Jan 11 16:08	7°♑26'02	
	6566 Feb 15 02:08	0°♒	
	6566 Mar 31 18:33	0°♓	
	6566 May 14 06:15	0°♈	
	6566 Jun 25 19:00	0°♉	
	6566 Aug 07 01:54	0°♊	
	6566 Sep 20 05:52	0°♋	
	6566 Nov 17 11:34	0°♌	
asc. node	6566 Nov 25 12:16	2°♌10'30	
retrograde	6566 Dec 11 21:49	4°♌05'34	
	6567 Jan 05 04:49	30°℞♋	
min. Earth dist.	6567 Jan 07 17:30	29°♋12'11	0.43226 AU
opposition	6567 Jan 15 22:51	26°♋27'51	3°09'17
greatest brilliancy	6567 Jan 14 21:57	26°♋48'41	-2.6m
direct	6567 Feb 16 14:59	20°♋14'23	
	6567 Mar 31 09:35	0°♌	
	6567 May 30 09:46	0°♍	
	6567 Jul 20 21:55	0°♎	
	6567 Sep 08 13:10	0°♏	
	6567 Oct 27 00:19	0°♐	
evening set	6567 Nov 19 22:48	15°♐08'22	
desc. node	6567 Nov 21 15:53	16°♐13'54	
	6567 Dec 13 00:59	0°♑	
max. Earth dist.	6567 Dec 15 22:21	1°♑52'46	2.63092 AU
conjunction	6568 Jan 04 04:47	14°♑31'55	-0°23'01
minimum elong	6568 Jan 04 04:03	14°♑30'43	0°22'58
	6568 Jan 27 07:17	0°♒	
morning rise	6568 Feb 19 07:09	15°♒44'27	
	6568 Mar 10 16:27	0°♓	
	6568 Apr 21 07:40	0°♈	
	6568 May 31 13:18	0°♉	
	6568 Jul 09 23:27	0°♊	
	6568 Aug 18 11:37	0°♋	
	6568 Sep 28 12:29	0°♌	
asc. node	6568 Oct 12 10:33	9°♌38'50	
	6568 Nov 13 03:51	0°♍	
retrograde	6569 Jan 27 17:32	27°♍51'44	
min. Earth dist.	6569 Mar 01 03:24	20°♍45'39	0.56635 AU
opposition	6569 Mar 07 18:47	18°♍10'56	5°00'04
greatest brilliancy	6569 Mar 06 14:54	18°♍38'06	-1.8m
direct	6569 Apr 13 04:36	9°♍57'04	
	6569 Jun 20 14:51	0°♎	
	6569 Aug 16 17:46	0°♏	
	6569 Oct 06 18:11	0°♐	
desc. node	6569 Oct 08 14:53	1°♐08'06	
	6569 Nov 23 15:07	0°♑	
evening set	6569 Dec 27 05:19	22°♑07'38	
	6570 Jan 07 20:05	0°♒	
max. Earth dist.	6570 Jan 12 06:43	3°♒02'29	2.53404 AU
conjunction	6570 Feb 14 05:45	26°♒08'31	-0°58'51
minimum elong	6570 Feb 14 04:30	26°♒06'15	0°58'49
	6570 Feb 19 14:50	0°♓	
	6570 Apr 01 08:21	0°♈	
morning rise	6570 Apr 09 10:47	6°♈07'06	
	6570 May 10 14:04	0°♉	
	6570 Jun 18 01:11	0°♊	
	6570 Jul 26 13:46	0°♋	
asc. node	6570 Aug 30 08:34	26°♋26'43	
	6570 Sep 04 03:15	0°♌	
	6570 Oct 15 22:40	0°♍	
	6570 Dec 01 02:34	0°♎	
	6571 Jan 30 08:09	0°♏	
retrograde	6571 Mar 05 21:05	6°♏39'21	
	6571 Apr 06 19:55	30°℞♎	
min. Earth dist.	6571 Apr 12 09:12	27°♎50'06	0.65540 AU
opposition	6571 Apr 15 05:48	26°♎41'38	3°56'07
greatest brilliancy	6571 Apr 14 20:35	26°♎50'50	-1.4m
direct	6571 May 24 18:34	17°♎21'13	
	6571 Jul 16 09:04	0°♏	
desc. node	6571 Aug 26 14:05	19°♏33'32	
	6571 Sep 14 18:14	0°♐	
	6571 Nov 04 01:53	0°♑	
	6571 Dec 19 22:22	0°♒	
	6572 Jan 31 14:35	0°♓	
evening set	6572 Feb 11 21:34	8°♓15'14	
max. Earth dist.	6572 Mar 02 04:16	22°♓37'24	2.40319 AU
	6572 Mar 11 21:50	0°♈	
conjunction	6572 Apr 11 06:07	23°♈25'49	-0°57'10
minimum elong	6572 Apr 11 08:36	23°♈30'40	0°57'11
	6572 Apr 19 15:30	0°♉	
	6572 May 27 16:16	0°♊	
morning rise	6572 Jun 20 14:04	18°♊49'59	
	6572 Jul 04 21:15	0°♋	
asc. node	6572 Jul 17 08:14	9°♋38'23	
	6572 Aug 13 03:18	0°♌	
	6572 Sep 23 06:21	0°♍	
	6572 Nov 06 03:12	0°♎	
	6572 Dec 24 07:11	0°♏	
	6573 Feb 21 20:58	0°♐	
retrograde	6573 Apr 08 01:19	10°♐07'29	
opposition	6573 May 18 07:23	0°♐31'34	1°53'04
greatest brilliancy	6573 May 18 09:18	0°♐29'40	-1.3m
min. Earth dist.	6573 May 19 06:52	0°♐08'19	0.68004 AU
	6573 May 19 15:17	30°℞♏	
direct	6573 Jun 28 13:55	20°♏36'27	
desc. node	6573 Jul 13 13:25	21°♏53'34	
	6573 Aug 11 11:40	0°♐	
	6573 Oct 11 10:06	0°♑	
	6573 Nov 28 14:38	0°♒	
	6574 Jan 10 20:59	0°♓	
	6574 Feb 20 04:20	0°♈	
	6574 Mar 30 18:16	0°♉	
evening set	6574 Apr 16 10:24	13°♉10'20	
	6574 May 07 16:16	0°♊	
asc. node	6574 Jun 04 07:09	21°♊44'53	
	6574 Jun 14 21:21	0°♋	
conjunction	6574 Jun 25 13:31	8°♋14'56	0°14'50
minimum elong	6574 Jun 25 12:04	8°♋12'08	0°14'46
behind sun begin	6574 Jun 25 00:31	7°♋49'55	
behind sun end	6574 Jun 25 23:37	8°♋34'20	
	6574 Jul 24 05:50	0°♌	
max. Earth dist.	6574 Aug 16 07:35	17°♌00'00	2.43440 AU
morning rise	6574 Aug 30 14:37	27°♌17'29	
	6574 Sep 03 09:58	0°♍	

	6574 Oct 16 20:53	0°♎	
	6574 Dec 02 00:36	0°♏	
	6575 Jan 20 21:04	0°♐	
	6575 Mar 20 19:56	0°♑	
retrograde	6575 May 14 07:16	13°♑33'26	
desc. node	6575 May 31 11:52	11°♑42'09	
opposition	6575 Jun 22 04:54	4°♑42'21	-0°47'36
greatest brilliancy	6575 Jun 22 07:53	4°♑39'28	-1.5m
min. Earth dist.	6575 Jun 26 22:45	2°♑52'24	0.63889 AU
	6575 Jul 04 18:02	30°℞♐	
direct	6575 Aug 02 16:50	24°♐40'58	
	6575 Sep 02 17:21	0°♑	
	6575 Nov 04 02:07	0°♒	
	6575 Dec 20 01:03	0°♓	
	6576 Jan 30 04:32	0°♈	
	6576 Mar 09 02:17	0°♉	
	6576 Apr 16 06:05	0°♊	
asc. node	6576 Apr 21 05:48	3°♊55'00	
	6576 May 24 18:43	0°♋	
evening set	6576 Jun 26 23:28	25°♋07'48	
	6576 Jul 03 13:05	0°♌	
	6576 Aug 14 03:28	0°♍	
conjunction	6576 Aug 25 18:56	8°♍08'29	1°03'47
minimum elong	6576 Aug 25 17:46	8°♍06'27	1°03'45
max. Earth dist.	6576 Sep 25 15:11	29°♍11'49	2.56509 AU
	6576 Sep 26 19:55	0°♎	
morning rise	6576 Oct 17 13:33	13°♎45'35	
	6576 Nov 11 13:46	0°♏	
	6576 Dec 29 06:45	0°♐	
	6577 Feb 17 10:13	0°♑	
	6577 Apr 14 02:09	0°♒	
desc. node	6577 Apr 17 10:01	1°♒35'53	
retrograde	6577 Jun 26 20:05	22°♒19'25	
opposition	6577 Aug 01 18:21	14°♒46'00	-4°02'08
greatest brilliancy	6577 Aug 02 20:59	14°♒21'53	-1.9m
min. Earth dist.	6577 Aug 09 18:06	11°♒52'40	0.53582 AU
direct	6577 Sep 10 05:00	5°♒33'08	
	6577 Nov 19 04:06	0°♓	
	6578 Jan 04 03:59	0°♈	
	6578 Feb 13 21:24	0°♉	
asc. node	6578 Mar 09 05:48	17°♉48'17	
	6578 Mar 25 03:35	0°♊	
	6578 May 03 14:44	0°♋	
	6578 Jun 13 07:01	0°♌	
	6578 Jul 25 18:00	0°♍	
evening set	6578 Aug 20 13:28	17°♍36'22	
	6578 Sep 08 02:32	0°♎	
conjunction	6578 Oct 09 16:26	20°♎41'42	1°01'36
minimum elong	6578 Oct 09 17:22	20°♎43'13	1°01'37
max. Earth dist.	6578 Oct 22 16:20	29°♎05'19	2.64974 AU
	6578 Oct 24 02:19	0°♏	
morning rise	6578 Nov 24 22:02	20°♏19'09	
	6578 Dec 10 05:10	0°♐	
	6579 Jan 27 01:04	0°♑	
desc. node	6579 Mar 05 09:05	23°♑07'11	
	6579 Mar 16 14:37	0°♒	
	6579 May 05 20:17	0°♓	
	6579 Jul 01 01:40	0°♈	
retrograde	6579 Aug 30 02:22	16°♈51'48	
opposition	6579 Sep 30 05:41	11°♈24'31	-6°11'52
greatest brilliancy	6579 Oct 01 19:25	10°♈56'54	-2.7m
min. Earth dist.	6579 Oct 07 00:23	9°♈26'12	0.40319 AU
direct	6579 Nov 02 07:40	5°♈05'25	
	6580 Jan 09 19:35	0°♉	
asc. node	6580 Jan 25 05:15	9°♉32'10	

	6580 Feb 24 20:53	0°♊	
	6580 Apr 07 21:04	0°♋	
	6580 May 21 00:21	0°♌	
	6580 Jul 04 07:41	0°♍	
	6580 Aug 19 00:13	0°♎	
evening set	6580 Sep 30 05:16	27°♎05'23	
	6580 Oct 04 18:55	0°♏	
max. Earth dist.	6580 Nov 13 13:32	25°♏15'50	2.68008 AU
conjunction	6580 Nov 15 00:26	26°♏11'13	0°33'21
minimum elong	6580 Nov 15 01:21	26°♏12'40	0°33'25
	6580 Nov 21 00:35	0°♐	
morning rise	6580 Dec 28 21:51	24°♐08'29	
	6581 Jan 07 01:11	0°♑	
desc. node	6581 Jan 20 07:34	8°♑31'51	
	6581 Feb 22 10:00	0°♒	
	6581 Apr 08 23:05	0°♓	
	6581 May 23 18:53	0°♈	
	6581 Jul 07 07:46	0°♉	
	6581 Aug 22 03:44	0°♊	
	6581 Oct 18 00:09	0°♋	
retrograde	6581 Nov 17 09:58	5°♋59'04	
asc. node	6581 Dec 12 03:44	2°♋01'13	
min. Earth dist.	6581 Dec 13 16:39	1°♋35'01	0.38771 AU
opposition	6581 Dec 19 16:50	29°♊49'09	0°32'36
greatest brilliancy	6581 Dec 19 13:18	29°♊51'46	-2.9m
	6581 Dec 19 02:08	30°℞♊	
direct	6582 Jan 18 16:30	24°♊30'45	
	6582 Feb 18 01:29	0°♋	
	6582 Apr 21 05:11	0°♌	
	6582 Jun 10 15:13	0°♍	
	6582 Jul 29 11:08	0°♎	
	6582 Sep 15 22:27	0°♏	
	6582 Nov 02 21:25	0°♐	
evening set	6582 Nov 05 21:53	1°♐54'26	
max. Earth dist.	6582 Dec 06 14:30	21°♐28'00	2.65547 AU
desc. node	6582 Dec 08 05:44	22°♐31'05	
	6582 Dec 19 19:34	0°♑	
conjunction	6582 Dec 20 17:12	0°♑35'05	-0°06'41
minimum elong	6582 Dec 20 17:00	0°♑34'45	0°06'38
behind sun begin	6582 Dec 19 23:44	0°♑06'46	
behind sun end	6582 Dec 21 10:16	1°♑02'45	
morning rise	6583 Feb 03 10:12	0°♒06'04	
	6583 Feb 03 06:35	0°♒	
	6583 Mar 19 01:52	0°♓	
	6583 Apr 30 06:59	0°♈	
	6583 Jun 10 04:15	0°♉	
	6583 Jul 20 07:10	0°♊	
	6583 Aug 29 16:18	0°♋	
	6583 Oct 11 09:56	0°♌	
asc. node	6583 Oct 30 03:35	11°♌56'03	
	6583 Dec 03 03:23	0°♍	
retrograde	6584 Jan 12 01:17	9°♍43'48	
min. Earth dist.	6584 Feb 11 02:31	3°♍29'33	0.51636 AU
opposition	6584 Feb 18 23:49	0°♍32'26	4°51'28
greatest brilliancy	6584 Feb 17 14:51	1°♍03'26	-2.1m
	6584 Feb 20 10:34	30°℞♌	
direct	6584 Mar 24 18:04	22°♌58'05	
	6584 Apr 30 01:44	0°♍	
	6584 Jul 03 11:46	0°♎	
	6584 Aug 25 09:10	0°♏	
	6584 Oct 14 02:56	0°♐	
desc. node	6584 Oct 25 04:35	6°♐52'23	
	6584 Nov 30 13:44	0°♑	
evening set	6584 Dec 11 18:46	7°♑18'06	
max. Earth dist.	6584 Dec 31 06:14	20°♑12'29	2.57770 AU

	6585 Jan 14 18:15	0°♒	
conjunction	6585 Jan 27 17:50	8°♒54'27	-0°47'00
minimum elong	6585 Jan 27 16:31	8°♒52'10	0°46'58
	6585 Feb 26 17:44	0°♓	
morning rise	6585 Mar 18 17:26	14°♓27'04	
	6585 Apr 08 18:45	0°♈	
	6585 May 18 08:27	0°♉	
	6585 Jun 26 02:41	0°♊	
	6585 Aug 03 21:33	0°♋	
	6585 Sep 12 18:39	0°♌	
asc. node	6585 Sep 16 03:01	2°♌27'05	
	6585 Oct 25 07:22	0°♍	
	6585 Dec 13 02:50	0°♎	
retrograde	6586 Feb 20 03:07	22°♎46'13	
min. Earth dist.	6586 Mar 27 19:16	14°♎32'32	0.62771 AU
greatest brilliancy	6586 Mar 31 11:41	13°♎04'35	-1.5m
opposition	6586 Apr 01 04:00	12°♎48'20	4°30'50
direct	6586 May 09 15:13	3°♎49'17	
	6586 Jul 30 15:08	0°♏	
desc. node	6586 Sep 12 03:42	23°♏26'02	
	6586 Sep 23 12:21	0°♐	
	6586 Nov 11 14:10	0°♑	
	6586 Dec 27 02:37	0°♒	
evening set	6587 Jan 23 04:45	18°♒50'06	
max. Earth dist.	6587 Feb 06 02:02	28°♒46'17	2.45538 AU
	6587 Feb 07 18:50	0°♓	
conjunction	6587 Mar 18 11:57	28°♓41'20	-1°05'44
minimum elong	6587 Mar 18 12:21	28°♓42'07	1°05'43
	6587 Mar 20 05:27	0°♈	
	6587 Apr 28 03:09	0°♉	
morning rise	6587 May 21 10:35	18°♉17'41	
	6587 Jun 05 07:10	0°♊	
	6587 Jul 13 14:10	0°♋	
asc. node	6587 Aug 04 00:41	16°♋30'15	
	6587 Aug 21 21:25	0°♌	
	6587 Oct 02 03:17	0°♍	
	6587 Nov 15 11:39	0°♎	
	6588 Jan 04 14:46	0°♏	
retrograde	6588 Mar 25 19:08	27°♏33'24	
opposition	6588 May 05 05:26	17°♏46'07	2°45'27
greatest brilliancy	6588 May 05 04:31	17°♏47'01	-1.3m
min. Earth dist.	6588 May 04 17:02	17°♏58'28	0.67814 AU
direct	6588 Jun 14 23:18	8°♏01'33	
desc. node	6588 Jul 30 03:06	17°♏47'09	
	6588 Aug 27 02:46	0°♐	
	6588 Oct 20 13:09	0°♑	
	6588 Dec 06 12:21	0°♒	
	6589 Jan 18 10:56	0°♓	
	6589 Feb 27 17:14	0°♈	
evening set	6589 Mar 19 18:13	15°♈27'44	
	6589 Apr 07 07:43	0°♉	
	6589 May 15 05:50	0°♊	
conjunction	6589 May 26 18:22	9°♊06'31	-0°17'46
minimum elong	6589 May 26 20:15	9°♊10'13	0°17'48
asc. node	6589 Jun 20 23:12	28°♊52'34	
	6589 Jun 22 09:53	0°♋	
max. Earth dist.	6589 Jul 11 18:54	14°♋56'49	2.38188 AU
	6589 Jul 31 16:12	0°♌	
morning rise	6589 Aug 05 23:39	3°♌57'50	
	6589 Sep 10 18:14	0°♍	
	6589 Oct 24 06:08	0°♎	
	6589 Dec 09 20:43	0°♏	
	6590 Jan 30 14:22	0°♐	
	6590 Apr 20 19:10	0°♑	
retrograde	6590 Apr 29 15:50	0°♑27'44	
	6590 May 08 06:30	30°℞♐	
opposition	6590 Jun 08 05:46	21°♐16'21	0°18'51
greatest brilliancy	6590 Jun 08 06:51	21°♐15'17	-1.4m
min. Earth dist.	6590 Jun 11 12:36	19°♐59'16	0.66267 AU
desc. node	6590 Jun 17 02:23	17°♐51'26	
direct	6590 Jul 19 20:12	11°♐13'25	
	6590 Sep 22 09:57	0°♑	
	6590 Nov 14 05:49	0°♒	
	6590 Dec 28 16:48	0°♓	
	6591 Feb 07 09:14	0°♈	
	6591 Mar 18 02:18	0°♉	
	6591 Apr 25 02:29	0°♊	
asc. node	6591 May 08 23:12	10°♊54'52	
evening set	6591 Jun 01 04:35	29°♊01'33	
	6591 Jun 02 10:50	0°♋	
	6591 Jul 11 23:50	0°♌	
conjunction	6591 Aug 05 05:35	17°♌45'36	0°52'18
minimum elong	6591 Aug 05 03:13	17°♌41'19	0°52'15
	6591 Aug 22 08:34	0°♍	
max. Earth dist.	6591 Sep 13 16:23	15°♍35'01	2.51811 AU
morning rise	6591 Oct 01 08:13	27°♍37'13	
	6591 Oct 04 21:01	0°♎	
	6591 Nov 19 15:48	0°♏	
	6592 Jan 06 21:34	0°♐	
	6592 Feb 27 22:20	0°♑	
	6592 May 03 15:51	0°♒	
desc. node	6592 May 04 01:04	0°♒07'23	
retrograde	6592 Jun 07 22:52	6°♒19'12	
	6592 Jul 10 06:40	30°℞♑	
opposition	6592 Jul 15 06:35	28°♑10'08	-2°43'41
greatest brilliancy	6592 Jul 15 21:52	27°♑55'49	-1.7m
min. Earth dist.	6592 Jul 22 03:42	25°♑35'30	0.58269 AU
direct	6592 Aug 24 21:07	18°♑27'57	
	6592 Oct 10 02:38	0°♒	
	6592 Dec 02 13:39	0°♓	
	6593 Jan 14 13:04	0°♈	
	6593 Feb 23 05:15	0°♉	
asc. node	6593 Mar 25 21:43	23°♉48'41	
	6593 Apr 02 20:48	0°♊	
	6593 May 11 20:09	0°♋	
	6593 Jun 21 01:25	0°♌	
evening set	6593 Aug 01 10:10	29°♌31'57	
	6593 Aug 02 02:16	0°♍	
	6593 Sep 15 02:44	0°♎	
conjunction	6593 Sep 23 13:25	5°♎36'47	1°06'40
minimum elong	6593 Sep 23 13:50	5°♎37'28	1°06'39
max. Earth dist.	6593 Oct 12 21:26	18°♎18'53	2.62298 AU
	6593 Oct 30 22:19	0°♏	
morning rise	6593 Nov 10 17:03	6°♏55'10	
	6593 Dec 17 03:53	0°♐	
	6594 Feb 03 14:54	0°♑	
desc. node	6594 Mar 21 23:15	27°♑44'03	
	6594 Mar 25 20:47	0°♒	
	6594 May 19 23:37	0°♓	
retrograde	6594 Aug 01 14:27	22°♓46'50	
opposition	6594 Sep 03 18:41	16°♓26'03	-5°51'50
greatest brilliancy	6594 Sep 05 12:37	15°♓51'37	-2.4m
min. Earth dist.	6594 Sep 12 05:53	13°♓40'42	0.45284 AU
direct	6594 Oct 09 22:21	8°♓41'50	
	6594 Dec 11 09:18	0°♈	
	6595 Jan 26 14:07	0°♉	
asc. node	6595 Feb 10 21:16	10°♉53'47	
	6595 Mar 09 02:23	0°♊	
	6595 Apr 19 00:25	0°♋	

	6595 May 30 19:51	0°♌	
	6595 Jul 13 04:40	0°♍	
	6595 Aug 27 05:40	0°♎	
evening set	6595 Sep 15 23:23	12°♎51'01	
	6595 Oct 12 14:59	0°♏	
conjunction	6595 Nov 01 23:38	12°♏59'47	0°46'17
minimum elong	6595 Nov 02 00:44	13°♏01'32	0°46'19
max. Earth dist.	6595 Nov 05 22:52	15°♏31'16	2.67479 AU
	6595 Nov 28 17:48	0°♐	
morning rise	6595 Dec 16 09:33	11°♐12'15	
	6596 Jan 14 23:34	0°♑	
desc. node	6596 Feb 06 21:59	14°♑36'47	
	6596 Mar 01 23:40	0°♒	
	6596 Apr 17 18:26	0°♓	
	6596 Jun 03 18:50	0°♈	
	6596 Jul 22 14:46	0°♉	
	6596 Sep 22 23:37	0°♊	
retrograde	6596 Oct 18 16:38	4°♊05'52	
	6596 Nov 14 04:53	30°℞♉	
opposition	6596 Nov 17 19:46	29°♉02'33	-3°02'54
min. Earth dist.	6596 Nov 16 18:39	29°♉19'13	0.36771 AU
greatest brilliancy	6596 Nov 17 20:46	29°♉01'53	-3.0m
direct	6596 Dec 17 03:56	24°♉09'44	
asc. node	6596 Dec 28 21:50	25°♉04'07	
	6597 Jan 17 02:21	0°♊	
	6597 Mar 17 07:18	0°♋	
	6597 May 04 08:39	0°♌	
	6597 Jun 20 05:24	0°♍	
	6597 Aug 06 10:19	0°♎	
	6597 Sep 23 01:46	0°♏	
evening set	6597 Oct 22 21:46	18°♏46'32	
	6597 Nov 09 15:58	0°♐	
max. Earth dist.	6597 Nov 27 12:09	11°♐20'18	2.67157 AU
conjunction	6597 Dec 06 18:10	17°♐15'01	0°09'34
minimum elong	6597 Dec 06 18:28	17°♐15'29	0°09'38
behind sun begin	6597 Dec 06 03:26	16°♐51'27	
behind sun end	6597 Dec 07 09:30	17°♐39'32	
desc. node	6597 Dec 24 19:57	28°♐52'30	
	6597 Dec 26 13:42	0°♑	
morning rise	6598 Jan 19 17:46	15°♑44'46	
	6598 Feb 10 07:14	0°♒	
	6598 Mar 26 15:23	0°♓	
	6598 May 08 14:44	0°♈	
	6598 Jun 19 10:31	0°♉	
	6598 Jul 30 17:06	0°♊	
	6598 Sep 10 20:50	0°♋	
	6598 Oct 28 09:24	0°♌	
asc. node	6598 Nov 15 20:53	9°♌08'27	
retrograde	6598 Dec 24 00:09	18°♌21'27	
min. Earth dist.	6599 Jan 20 18:57	13°♌01'27	0.46192 AU
greatest brilliancy	6599 Jan 27 23:21	10°♌30'35	-2.4m
opposition	6599 Jan 29 06:38	10°♌03'02	4°03'34
direct	6599 Mar 03 02:29	3°♌18'25	
	6599 May 21 18:17	0°♍	
	6599 Jul 14 20:07	0°♎	
	6599 Sep 03 09:22	0°♏	
	6599 Oct 22 06:00	0°♐	
desc. node	6599 Nov 11 18:27	12°♐54'25	
evening set	6599 Nov 28 02:44	23°♐20'24	
	6599 Dec 08 10:14	0°♑	
max. Earth dist.	6599 Dec 21 17:07	8°♑40'20	2.61421 AU
conjunction	6600 Jan 12 19:17	23°♑20'22	-0°32'18
minimum elong	6600 Jan 12 18:16	23°♑18'41	0°32'14
	6600 Jan 22 16:15	0°♒	

morning rise	6600 Feb 28 23:42	25°♒48'01	
	6600 Mar 06 22:11	0°♓	
	6600 Apr 17 08:18	0°♈	
	6600 May 27 07:48	0°♉	
	6600 Jul 05 11:13	0°♊	
	6600 Aug 13 15:25	0°♋	
	6600 Sep 23 02:16	0°♌	
asc. node	6600 Oct 03 18:54	7°♌36'51	
	6600 Nov 06 01:44	0°♍	
	6601 Jan 01 12:30	0°♎	
retrograde	6601 Feb 06 13:51	7°♎40'14	
min. Earth dist.	6601 Mar 12 05:08	0°♎07'49	0.59075 AU
	6601 Mar 12 13:10	30°℞♍	
greatest brilliancy	6601 Mar 17 01:21	28°♍13'35	-1.7m
opposition	6601 Mar 18 01:16	27°♍50'01	4°54'19
direct	6601 Apr 24 05:48	19°♍17'59	
	6601 Jun 10 09:17	0°♎	
	6601 Aug 11 11:03	0°♏	
desc. node	6601 Sep 29 17:57	28°♏18'17	
	6601 Oct 02 13:48	0°♐	
	6601 Nov 19 20:09	0°♑	
	6602 Jan 04 04:03	0°♒	
evening set	6602 Jan 06 13:50	1°♒38'41	