conjunction	9100 Sep 02 10:53	17°♍52'31	0°58'41
minimum elong	9100 Sep 02 08:28	17°♍47'59	0°58'36
	9100 Sep 18 21:12	0°♎	
max. Earth dist.	9100 Oct 18 10:48	21°♎12'57	2.47957 AU
	9100 Oct 31 00:28	0°♏	
morning rise	9100 Nov 02 04:38	1°♏30'19	
	9100 Dec 14 11:57	0°♐	
	9101 Jan 30 14:32	0°♑	
	9101 Mar 22 08:51	0°♒	
desc. node	9101 Apr 30 10:25	20°♒28'50	
	9101 May 21 21:26	0°♓	
retrograde	9101 Jul 11 15:01	11°♓54'03	
opposition	9101 Aug 18 19:37	3°♓21'57	-3°39'57
greatest brilliancy	9101 Aug 19 12:30	3°♓05'49	-1.5m
min. Earth dist.	9101 Aug 24 15:28	1°♓08'21	0.61444 AU
	9101 Aug 27 16:48	30°♓℞	
direct	9101 Sep 28 21:53	23°♒26'57	
	9101 Nov 02 04:36	0°♓	
	9101 Dec 31 12:03	0°♈	
	9102 Feb 14 03:47	0°♉	
	9102 Mar 26 12:39	0°♊	
asc. node	9102 Apr 10 20:49	11°♊49'25	
	9102 May 04 03:46	0°♋	
	9102 Jun 11 12:17	0°♌	
	9102 Jul 20 15:39	0°♍	
	9102 Aug 30 08:14	0°♎	
evening set	9102 Sep 01 22:18	1°♎51'37	
	9102 Oct 12 00:10	0°♏	
conjunction	9102 Oct 27 13:06	10°♏34'50	1°01'01
minimum elong	9102 Oct 27 14:16	10°♏36'48	1°01'10
max. Earth dist.	9102 Nov 20 21:18	26°♏49'43	2.59885 AU
	9102 Nov 25 16:55	0°♐	
morning rise	9102 Dec 16 03:33	13°♐19'04	
	9103 Jan 11 05:31	0°♑	
	9103 Feb 28 09:51	0°♒	
desc. node	9103 Mar 18 05:38	10°♒49'10	
	9103 Apr 19 16:13	0°♓	
	9103 Jun 13 20:08	0°♈	
retrograde	9103 Aug 29 16:24	24°♈01'29	
opposition	9103 Oct 03 07:01	17°♈01'31	-5°37'33
greatest brilliancy	9103 Oct 05 00:26	16°♈25'22	-2.1m
min. Earth dist.	9103 Oct 11 21:44	14°♈02'21	0.49377 AU
direct	9103 Nov 10 04:36	8°♈26'09	
	9104 Jan 12 19:40	0°♉	
asc. node	9104 Feb 26 22:15	29°♉12'46	
	9104 Feb 28 01:01	0°♊	
	9104 Apr 08 23:32	0°♋	
	9104 May 18 19:56	0°♌	
	9104 Jun 28 05:57	0°♍	
	9104 Aug 09 02:51	0°♎	
	9104 Sep 21 19:21	0°♏	
evening set	9104 Oct 19 18:44	18°♏36'02	
	9104 Nov 06 05:09	0°♐	
conjunction	9104 Dec 06 15:22	19°♐37'26	0°29'18
minimum elong	9104 Dec 06 16:16	19°♐38'53	0°29'33
max. Earth dist.	9104 Dec 14 19:46	24°♐51'22	2.66705 AU
	9104 Dec 22 21:21	0°♑	
morning rise	9105 Jan 20 09:31	18°♑05'15	
desc. node	9105 Feb 02 01:55	26°♑06'09	
	9105 Feb 08 06:06	0°♒	
	9105 Mar 27 21:03	0°♓	
	9105 May 14 17:32	0°♈	
	9105 Jul 02 09:33	0°♉	
	9105 Aug 23 04:17	0°♊	
retrograde	9105 Nov 09 12:28	27°♊05'43	
opposition	9105 Dec 09 11:35	22°♊07'55	-2°39'33
greatest brilliancy	9105 Dec 09 23:08	22°♊00'04	-3.0m
min. Earth dist.	9105 Dec 12 19:22	21°♊13'54	0.37323 AU
direct	9106 Jan 09 02:47	16°♊49'35	
asc. node	9106 Jan 14 00:02	16°♊59'36	
	9106 Feb 25 14:31	0°♋	
	9106 Apr 18 03:39	0°♌	
	9106 Jun 02 14:54	0°♍	
	9106 Jul 17 15:43	0°♎	
	9106 Sep 01 12:27	0°♏	
	9106 Oct 18 08:31	0°♐	
evening set	9106 Nov 27 16:40	25°♐32'17	
	9106 Dec 04 18:06	0°♑	
desc. node	9106 Dec 20 23:15	10°♑15'09	
max. Earth dist.	9107 Jan 06 02:41	20°♑29'11	2.68001 AU
conjunction	9107 Jan 11 11:52	23°♑54'21	-0°11'17
minimum elong	9107 Jan 11 11:32	23°♑53'49	0°11'01
behind sun begin	9107 Jan 10 22:00	23°♑32'19	
behind sun end	9107 Jan 12 01:04	24°♑15'19	
	9107 Jan 21 01:36	0°♒	
morning rise	9107 Feb 24 00:39	21°♒47'41	
	9107 Mar 08 16:24	0°♓	
	9107 Apr 23 05:48	0°♈	
	9107 Jun 06 14:59	0°♉	
	9107 Jul 19 21:52	0°♊	
	9107 Aug 31 12:15	0°♋	
	9107 Oct 13 15:47	0°♌	
asc. node	9107 Dec 01 22:53	0°♍29'49	
	9107 Dec 01 00:27	0°♍	
retrograde	9108 Jan 23 11:20	16°♍47'10	
min. Earth dist.	9108 Feb 18 19:05	12°♍05'20	0.42248 AU
greatest brilliancy	9108 Feb 25 10:02	9°♍56'29	-2.6m
opposition	9108 Feb 26 22:31	9°♍26'42	5°03'09
direct	9108 Mar 29 05:34	3°♍24'59	
	9108 Jun 15 14:10	0°♎	
	9108 Aug 07 21:33	0°♏	
	9108 Sep 27 02:15	0°♐	
desc. node	9108 Nov 06 23:15	24°♐57'56	
	9108 Nov 15 02:57	0°♑	
evening set	9109 Jan 01 12:51	29°♑42'23	
	9109 Jan 01 23:56	0°♒	
max. Earth dist.	9109 Jan 28 09:57	16°♒57'51	2.63829 AU
conjunction	9109 Feb 15 08:23	28°♒41'08	-0°48'12
minimum elong	9109 Feb 15 07:15	28°♒39'15	0°48'02
	9109 Feb 17 08:16	0°♓	
morning rise	9109 Apr 02 00:37	29°♓23'56	
	9109 Apr 02 21:37	0°♈	
	9109 May 15 15:14	0°♉	
	9109 Jun 25 17:40	0°♊	
	9109 Aug 04 14:54	0°♋	
	9109 Sep 12 23:44	0°♌	
asc. node	9109 Oct 18 20:35	26°♌59'02	
	9109 Oct 22 22:43	0°♍	
	9109 Dec 04 12:11	0°♎	
	9110 Jan 25 02:33	0°♏	
retrograde	9110 Mar 12 13:51	12°♏22'27	
min. Earth dist.	9110 Apr 13 15:16	5°♏23'38	0.55806 AU
greatest brilliancy	9110 Apr 19 07:58	3°♏11'29	-1.8m
opposition	9110 Apr 20 11:30	2°♏44'47	4°52'54
	9110 Apr 27 20:33	30°♎℞	
direct	9110 May 26 15:01	24°♎37'34	

	9110 Jun 27 08:36	0°♏		
	9110 Sep 02 14:46	0°♐		
desc. node	9110 Sep 25 00:53	12°♐15'11		
	9110 Oct 25 21:55	0°♑		
	9110 Dec 14 08:16	0°♒		
	9111 Jan 30 00:33	0°♓		
evening set	9111 Feb 08 04:59	6°♓06'15		
max. Earth dist.	9111 Feb 24 23:37	17°♓26'03	2.54447 AU	
	9111 Mar 15 04:38	0°♈		
conjunction	9111 Mar 28 15:29	9°♈27'51	-1°07'32	
minimum elong	9111 Mar 28 15:17	9°♈27'30	1°07'35	
	9111 Apr 26 02:43	0°♉		
morning rise	9111 May 21 06:29	18°♉41'25		
	9111 Jun 05 04:54	0°♊		
	9111 Jul 14 01:30	0°♋		
	9111 Aug 21 10:37	0°♌		
asc. node	9111 Sep 05 17:36	11°♌54'27		
	9111 Sep 29 05:37	0°♍		
	9111 Nov 08 12:25	0°♎		
	9111 Dec 21 19:56	0°♏		
	9112 Feb 09 22:46	0°♐		
retrograde	9112 Apr 18 01:15	21°♐39'38		
min. Earth dist.	9112 May 25 06:17	12°♐56'48	0.65168 AU	
opposition	9112 May 28 10:49	11°♐40'27	2°33'39	
greatest brilliancy	9112 May 28 04:14	11°♐47'01	-1.4m	
direct	9112 Jul 06 20:55	2°♐23'46		
desc. node	9112 Aug 12 02:11	8°♐57'49		
	9112 Sep 30 00:02	0°♑		
	9112 Nov 22 23:37	0°♒		
	9113 Jan 09 23:52	0°♓		
	9113 Feb 23 08:06	0°♈		
evening set	9113 Mar 24 19:49	21°♈06'03		
	9113 Apr 05 21:58	0°♉		
max. Earth dist.	9113 Apr 10 21:12	3°♉41'46	2.41295 AU	
	9113 May 15 11:25	0°♊		
conjunction	9113 May 22 14:39	5°♊31'51	-0°41'23	
minimum elong	9113 May 22 17:28	5°♊37'19	0°41'36	
	9113 Jun 22 19:40	0°♋		
asc. node	9113 Jul 23 13:54	24°♋18'17		
	9113 Jul 30 19:17	0°♌		
morning rise	9113 Jul 31 22:57	0°♌54'28		
	9113 Sep 07 07:11	0°♍		
	9113 Oct 17 04:04	0°♎		
	9113 Nov 28 06:50	0°♏		
	9114 Jan 12 18:10	0°♐		
	9114 Mar 05 11:59	0°♑		
retrograde	9114 May 22 04:05	25°♑06'56		
desc. node	9114 Jun 30 02:37	16°♑01'57		
opposition	9114 Jul 01 13:04	15°♑27'49	-0°02'58	
greatest brilliancy	9114 Jul 01 13:09	15°♑27'44	-1.3m	
min. Earth dist.	9114 Jul 02 03:35	15°♑13'26	0.68191 AU	
direct	9114 Aug 11 18:17	5°♑34'24		
	9114 Oct 28 09:48	0°♒		
	9114 Dec 19 23:38	0°♓		
	9115 Feb 03 12:35	0°♈		
	9115 Mar 17 06:55	0°♉		
	9115 Apr 25 16:41	0°♊		
evening set	9115 May 27 11:33	24°♊57'47		
	9115 Jun 02 20:11	0°♋		
asc. node	9115 Jun 10 12:02	6°♋04'23		
	9115 Jul 10 17:28	0°♌		
conjunction	9115 Aug 06 16:05	21°♌03'57	0°38'34	
minimum elong	9115 Aug 06 12:43	20°♌57'26	0°38'21	
	9115 Aug 18 06:22	0°♍		
	9115 Sep 27 05:43	0°♎		
max. Earth dist.	9115 Sep 28 09:18	0°♎50'33	2.42384 AU	
morning rise	9115 Oct 12 17:36	11°♎15'04		
	9115 Nov 08 06:18	0°♏		
	9115 Dec 22 19:01	0°♐		
	9116 Feb 08 10:58	0°♑		
	9116 Apr 01 10:58	0°♒		
desc. node	9116 May 17 01:28	20°♒22'06		
retrograde	9116 Jun 26 01:08	28°♒15'01		
opposition	9116 Aug 04 03:14	19°♒18'47	-2°40'43	
greatest brilliancy	9116 Aug 04 12:08	19°♒10'10	-1.4m	
min. Earth dist.	9116 Aug 08 12:16	17°♒36'52	0.64626 AU	
direct	9116 Sep 14 14:59	9°♒16'21		
	9116 Nov 21 03:59	0°♓		
	9117 Jan 10 22:40	0°♈		
	9117 Feb 23 02:54	0°♉		
	9117 Apr 03 23:37	0°♊		
asc. node	9117 Apr 27 13:11	18°♊21'31		
	9117 May 12 08:11	0°♋		
	9117 Jun 19 10:56	0°♌		
	9117 Jul 28 07:53	0°♍		
evening set	9117 Aug 08 20:49	8°♍42'25		
	9117 Sep 06 17:21	0°♎		
conjunction	9117 Oct 08 10:23	22°♎34'55	1°06'26	
minimum elong	9117 Oct 08 10:46	22°♎35'35	1°06'31	
	9117 Oct 19 02:46	0°♏		
max. Earth dist.	9117 Nov 09 17:20	14°♏44'05	2.55779 AU	
morning rise	9117 Nov 30 09:59	28°♏31'42		
	9117 Dec 02 15:37	0°♐		
	9118 Jan 18 06:43	0°♑		
	9118 Mar 08 02:57	0°♒		
desc. node	9118 Apr 03 21:25	15°♒41'49		
	9118 Apr 29 12:30	0°♓		
	9118 Jul 04 10:13	0°♈		
retrograde	9118 Aug 08 14:00	6°♈16'59		
	9118 Sep 09 20:37	30°℞♓		
opposition	9118 Sep 13 19:36	28°♓34'36	-5°03'05	
greatest brilliancy	9118 Sep 15 04:12	28°♓04'41	-1.9m	
min. Earth dist.	9118 Sep 21 14:36	25°♓43'35	0.54664 AU	
direct	9118 Oct 23 09:57	19°♓14'10		
	9118 Dec 06 01:10	0°♈		
	9119 Jan 27 20:05	0°♉		
	9119 Mar 11 06:19	0°♊		
asc. node	9119 Mar 15 13:56	3°♊12'41		
	9119 Apr 19 20:10	0°♋		
	9119 May 28 20:42	0°♌		
	9119 Jul 07 14:45	0°♍		
	9119 Aug 17 21:24	0°♎		
	9119 Sep 30 01:53	0°♏		
evening set	9119 Oct 03 11:41	2°♏18'43		
	9119 Nov 14 03:00	0°♐		
conjunction	9119 Nov 22 15:29	5°♐33'16	0°43'30	
minimum elong	9119 Nov 22 16:43	5°♐35'16	0°43'44	
max. Earth dist.	9119 Dec 06 14:21	14°♐35'12	2.64690 AU	
	9119 Dec 30 15:59	0°♑		
morning rise	9120 Jan 07 18:16	5°♑08'45		
	9120 Feb 16 05:27	0°♒		
desc. node	9120 Feb 19 16:26	2°♒09'39		
	9120 Apr 04 14:00	0°♓		
	9120 May 24 03:59	0°♈		
	9120 Jul 16 03:34	0°♉		
retrograde	9120 Oct 08 19:03	29°♉00'10		
opposition	9120 Nov 09 04:57	23°♉22'39	-5°01'40	
greatest brilliancy	9120 Nov 10 17:05	22°♉55'28	-2.7m	
min. Earth dist.	9120 Nov 16 15:53	21°♉08'47	0.40999 AU	

direct	9120 Dec 12 22:42	16°♉45'08	
	9121 Jan 28 22:13	0°♊	
asc. node	9121 Jan 30 15:09	0°♊51'15	
	9121 Mar 19 17:16	0°♋	
	9121 May 01 20:04	0°♌	
	9121 Jun 13 06:06	0°♍	
	9121 Jul 26 13:43	0°♎	
	9121 Sep 09 08:09	0°♏	
	9121 Oct 25 11:32	0°♐	
evening set	9121 Nov 13 05:29	12°♐00'08	
	9121 Dec 11 12:25	0°♑	
conjunction	9121 Dec 28 19:32	10°♑58'22	0°04'38
minimum elong	9121 Dec 28 19:42	10°♑58'38	0°04'54
behind sun begin	9121 Dec 28 01:52	10°♑30'23	
behind sun end	9121 Dec 29 13:31	11°♑26'53	
max. Earth dist.	9121 Dec 28 15:54	10°♑52'38	2.68161 AU
desc. node	9122 Jan 06 13:31	16°♑31'23	
	9122 Jan 27 18:44	0°♒	
morning rise	9122 Feb 10 10:43	8°♒42'17	
	9122 Mar 15 16:34	0°♓	
	9122 Apr 30 22:29	0°♈	
	9122 Jun 15 11:19	0°♉	
	9122 Jul 30 12:40	0°♊	
	9122 Sep 14 00:00	0°♋	
	9122 Nov 02 22:02	0°♌	
asc. node	9122 Dec 18 17:04	16°♌49'24	
retrograde	9122 Dec 28 20:17	17°♌32'55	
min. Earth dist.	9123 Jan 24 03:38	13°♌13'54	0.37978 AU
opposition	9123 Jan 29 12:19	11°♌41'44	3°02'16
greatest brilliancy	9123 Jan 28 19:35	11°♌53'46	-2.9m
direct	9123 Feb 28 03:28	6°♌33'30	
	9123 May 09 10:21	0°♍	
	9123 Jun 30 12:07	0°♎	
	9123 Aug 18 10:46	0°♏	
	9123 Oct 05 21:58	0°♐	
	9123 Nov 23 03:40	0°♑	
desc. node	9123 Nov 24 12:14	0°♑50'54	
evening set	9123 Dec 19 16:02	16°♑38'41	
	9124 Jan 09 17:35	0°♒	
max. Earth dist.	9124 Jan 20 01:54	6°♒36'55	2.66106 AU
conjunction	9124 Feb 02 02:51	15°♒00'32	-0°35'05
minimum elong	9124 Feb 02 01:54	14°♒59'01	0°34'51
	9124 Feb 25 03:03	0°♓	
morning rise	9124 Mar 17 11:14	14°♓07'56	
	9124 Apr 10 00:05	0°♈	
	9124 May 23 06:15	0°♉	
	9124 Jul 04 00:35	0°♊	
	9124 Aug 13 15:18	0°♋	
	9124 Sep 22 19:59	0°♌	
	9124 Nov 03 00:47	0°♍	
asc. node	9124 Nov 04 15:13	1°♍07'41	
	9124 Dec 18 20:40	0°♎	
retrograde	9125 Feb 23 12:18	23°♎40'10	
min. Earth dist.	9125 Mar 25 03:16	17°♎34'50	0.50652 AU
greatest brilliancy	9125 Mar 31 15:02	15°♎10'33	-2.1m
opposition	9125 Apr 02 03:16	14°♎36'44	5°27'28
direct	9125 May 06 13:34	7°♎11'11	
	9125 Jul 18 19:30	0°♏	
	9125 Sep 12 16:07	0°♐	
desc. node	9125 Oct 11 13:04	16°♐45'40	
	9125 Nov 02 17:41	0°♑	
	9125 Dec 21 09:42	0°♒	
evening set	9126 Jan 24 00:50	21°♒33'33	
	9126 Feb 05 21:22	0°♓	
max. Earth dist.	9126 Feb 13 09:38	4°♓59'04	2.58689 AU
conjunction	9126 Mar 11 12:09	22°♓38'15	-1°03'29
minimum elong	9126 Mar 11 11:15	22°♓36'43	1°03'25
	9126 Mar 22 04:07	0°♈	
morning rise	9126 Apr 30 00:07	27°♈33'53	
	9126 May 03 08:36	0°♉	
	9126 Jun 12 18:49	0°♊	
	9126 Jul 21 23:11	0°♋	
	9126 Aug 29 15:05	0°♌	
asc. node	9126 Sep 22 10:30	18°♌22'15	
	9126 Oct 07 16:58	0°♍	
	9126 Nov 17 10:58	0°♎	
	9127 Jan 01 02:20	0°♏	
	9127 Feb 27 15:10	0°♐	
retrograde	9127 Apr 05 04:07	7°♐37'46	
	9127 May 09 07:24	30°℞♏	
min. Earth dist.	9127 May 10 13:08	29°♏30'49	0.62210 AU
opposition	9127 May 15 05:03	27°♏39'42	3°31'56
greatest brilliancy	9127 May 14 15:34	27°♏53'06	-1.5m
direct	9127 Jun 22 12:33	18°♏45'27	
	9127 Aug 10 13:15	0°♐	
desc. node	9127 Aug 29 15:17	8°♐11'22	
	9127 Oct 11 08:25	0°♑	
	9127 Dec 01 21:50	0°♒	
	9128 Jan 18 05:57	0°♓	
	9128 Mar 02 11:24	0°♈	
evening set	9128 Mar 05 13:09	2°♈09'20	
max. Earth dist.	9128 Mar 19 08:03	11°♈56'18	2.46650 AU
	9128 Apr 13 03:44	0°♉	
conjunction	9128 Apr 28 05:00	11°♉13'06	-0°59'32
minimum elong	9128 Apr 28 06:51	11°♉16'35	0°59'41
	9128 May 22 21:30	0°♊	
morning rise	9128 Jun 30 16:07	0°♋12'40	
	9128 Jun 30 09:40	0°♋	
	9128 Aug 07 11:50	0°♌	
asc. node	9128 Aug 09 07:35	1°♌25'57	
	9128 Sep 15 01:00	0°♍	
	9128 Oct 24 23:12	0°♎	
	9128 Dec 06 07:30	0°♏	
	9129 Jan 21 17:22	0°♐	
	9129 Mar 19 06:48	0°♑	
retrograde	9129 May 08 23:18	12°♑35'30	
opposition	9129 Jun 18 11:58	2°♑45'27	0°58'11
greatest brilliancy	9129 Jun 18 11:28	2°♑45'57	-1.3m
min. Earth dist.	9129 Jun 17 14:39	3°♑06'41	0.67789 AU
	9129 Jun 25 13:12	30°℞♐	
desc. node	9129 Jul 16 16:51	24°♐02'30	
direct	9129 Jul 29 04:16	23°♐03'23	
	9129 Sep 04 12:58	0°♑	
	9129 Nov 08 04:03	0°♒	
	9129 Dec 28 05:46	0°♓	
	9130 Feb 11 03:44	0°♈	
	9130 Mar 24 18:56	0°♉	
evening set	9130 Apr 29 21:10	27°♉24'26	
	9130 May 03 05:28	0°♊	
	9130 Jun 10 10:13	0°♋	
asc. node	9130 Jun 27 05:16	13°♋18'31	
conjunction	9130 Jul 07 02:00	21°♋07'22	0°07'11
minimum elong	9130 Jul 07 01:13	21°♋05'49	0°06'55
behind sun begin	9130 Jul 05 21:10	20°♋10'18	
behind sun end	9130 Jul 08 05:17	22°♋01'19	
	9130 Jul 18 07:38	0°♌	
max. Earth dist.	9130 Aug 15 16:28	22°♌11'54	2.37287 AU
	9130 Aug 25 19:09	0°♍	
morning rise	9130 Sep 17 09:26	17°♍09'52	
	9130 Oct 04 16:07	0°♎	

	9130 Nov 15 15:14	0°♏	
	9130 Dec 30 08:06	0°♐	
	9131 Feb 16 22:03	0°♑	
	9131 Apr 15 05:36	0°♒	
desc. node	9131 Jun 03 15:56	14°♒49'24	
retrograde	9131 Jun 12 13:27	15°♒17'05	
opposition	9131 Jul 22 07:27	6°♒01'13	-1°39'58
greatest brilliancy	9131 Jul 22 10:50	5°♒57'54	-1.3m
min. Earth dist.	9131 Jul 25 05:02	4°♒52'57	0.66808 AU
	9131 Aug 07 18:16	30°℞♑	
direct	9131 Sep 01 21:28	25°♑58'21	
	9131 Sep 29 02:14	0°♒	
	9131 Dec 04 07:27	0°♓	
	9132 Jan 21 00:40	0°♈	
	9132 Mar 03 10:02	0°♉	
	9132 Apr 12 00:15	0°♊	
asc. node	9132 May 14 04:00	25°♊12'27	
	9132 May 20 05:26	0°♋	
	9132 Jun 27 04:51	0°♌	
evening set	9132 Jul 12 06:14	11°♌46'37	
	9132 Aug 04 21:30	0°♍	
	9132 Sep 14 01:44	0°♎	
conjunction	9132 Sep 16 11:29	1°♎45'12	1°04'29
minimum elong	9132 Sep 16 10:12	1°♎42'53	1°04'28
	9132 Oct 26 06:08	0°♏	
max. Earth dist.	9132 Oct 27 12:09	0°♏51'56	2.50937 AU
morning rise	9132 Nov 13 00:56	12°♏11'38	
	9132 Dec 09 16:45	0°♐	
	9133 Jan 25 13:09	0°♑	
	9133 Mar 16 09:37	0°♒	
desc. node	9133 Apr 20 12:29	19°♒25'48	
	9133 May 11 15:04	0°♓	
retrograde	9133 Jul 21 03:36	20°♓36'40	
opposition	9133 Aug 27 17:27	12°♓20'05	-4°12'28
greatest brilliancy	9133 Aug 28 15:43	11°♓59'02	-1.6m
min. Earth dist.	9133 Sep 03 06:59	9°♓51'17	0.59293 AU
direct	9133 Oct 07 10:05	2°♓33'22	
	9133 Dec 23 17:13	0°♈	
	9134 Feb 08 00:30	0°♉	
	9134 Mar 20 22:07	0°♊	
asc. node	9134 Apr 01 06:11	8°♊39'23	
	9134 Apr 28 19:08	0°♋	
	9134 Jun 06 07:34	0°♌	
	9134 Jul 15 14:35	0°♍	
	9134 Aug 25 10:38	0°♎	
evening set	9134 Sep 14 03:36	13°♎59'32	
	9134 Oct 07 05:43	0°♏	
conjunction	9134 Nov 06 12:08	20°♏24'54	0°55'33
minimum elong	9134 Nov 06 13:28	20°♏27'07	0°55'44
	9134 Nov 21 00:18	0°♐	
max. Earth dist.	9134 Nov 26 21:54	3°♐51'53	2.61841 AU
morning rise	9134 Dec 24 15:02	21°♐47'23	
	9135 Jan 06 11:59	0°♑	
	9135 Feb 23 09:15	0°♒	
desc. node	9135 Mar 08 07:29	7°♒57'09	
	9135 Apr 13 19:02	0°♓	
	9135 Jun 05 04:59	0°♈	
	9135 Aug 09 22:20	0°♉	
retrograde	9135 Sep 12 03:31	5°♉49'58	
	9135 Oct 13 14:46	30°℞♈	
opposition	9135 Oct 15 18:05	29°♈17'35	-5°42'03
greatest brilliancy	9135 Oct 17 13:34	28°♈41'14	-2.3m
min. Earth dist.	9135 Oct 24 11:28	26°♈24'02	0.46318 AU
direct	9135 Nov 21 09:22	21°♈17'55	
	9135 Dec 28 21:45	0°♉	

asc. node	9136 Feb 17 08:20	28°♉26'09	
	9136 Feb 19 16:44	0°♊	
	9136 Apr 02 03:53	0°♋	
	9136 May 12 17:56	0°♌	
	9136 Jun 22 15:56	0°♍	
	9136 Aug 03 21:50	0°♎	
	9136 Sep 16 21:14	0°♏	
evening set	9136 Oct 28 23:40	27°♏43'38	
	9136 Nov 01 11:44	0°♐	
conjunction	9136 Dec 14 21:01	27°♐50'53	0°20'21
minimum elong	9136 Dec 14 21:39	27°♐51'54	0°20'37
	9136 Dec 18 06:08	0°♑	
max. Earth dist.	9136 Dec 20 01:02	1°♑08'15	2.67460 AU
desc. node	9137 Jan 23 03:09	22°♑46'03	
morning rise	9137 Jan 28 02:11	25°♑54'34	
	9137 Feb 03 13:13	0°♒	
	9137 Mar 22 21:02	0°♓	
	9137 May 09 01:12	0°♈	
	9137 Jun 25 06:58	0°♉	
	9137 Aug 12 13:23	0°♊	
	9137 Oct 05 08:15	0°♋	
retrograde	9137 Nov 28 05:53	15°♋17'35	
opposition	9137 Dec 28 00:35	10°♋20'44	-0°34'25
greatest brilliancy	9137 Dec 28 01:32	10°♋20'06	-3.1m
min. Earth dist.	9137 Dec 28 02:29	10°♋19'29	0.36565 AU
asc. node	9138 Jan 04 08:32	8°♋27'38	
direct	9138 Jan 26 11:31	5°♋25'50	
	9138 Apr 06 15:14	0°♌	
	9138 May 25 20:44	0°♍	
	9138 Jul 11 10:23	0°♎	
	9138 Aug 27 02:38	0°♏	
	9138 Oct 13 09:51	0°♐	
	9138 Nov 30 01:25	0°♑	
evening set	9138 Dec 05 18:27	3°♑35'55	
desc. node	9138 Dec 11 01:18	6°♑55'56	
max. Earth dist.	9139 Jan 11 05:04	26°♑40'02	2.67555 AU
	9139 Jan 16 10:39	0°♒	
conjunction	9139 Jan 19 07:51	1°♒50'22	-0°20'23
minimum elong	9139 Jan 19 07:15	1°♒49'25	0°20'07
morning rise	9139 Mar 03 23:56	0°♓00'53	
	9139 Mar 03 23:23	0°♓	
	9139 Apr 18 06:39	0°♈	
	9139 Jun 01 05:12	0°♉	
	9139 Jul 13 20:59	0°♊	
	9139 Aug 24 13:49	0°♋	
	9139 Oct 05 05:36	0°♌	
	9139 Nov 18 07:21	0°♍	
asc. node	9139 Nov 22 07:55	2°♍31'58	
	9140 Jan 20 19:49	0°♎	
retrograde	9140 Feb 05 01:02	1°♎38'15	
	9140 Feb 19 21:00	30°℞♍	
min. Earth dist.	9140 Mar 03 06:53	26°♍29'20	0.45172 AU
greatest brilliancy	9140 Mar 10 03:26	24°♍08'05	-2.4m
opposition	9140 Mar 11 19:14	23°♍33'34	5°29'27
direct	9140 Apr 13 07:15	16°♍59'44	
	9140 Jun 03 04:53	0°♎	
	9140 Jul 31 21:04	0°♏	
	9140 Sep 21 12:47	0°♐	
desc. node	9140 Oct 28 02:03	22°♐00'08	
	9140 Nov 10 04:11	0°♑	
	9140 Dec 28 07:11	0°♒	
evening set	9141 Jan 09 14:25	7°♒50'21	
max. Earth dist.	9141 Feb 03 01:42	23°♒40'29	2.62206 AU
	9141 Feb 12 16:40	0°♓	

conjunction	9141 Feb 23 20:21	7°♓24'02	-0°54'49
minimum elong	9141 Feb 23 19:12	7°♓22'08	0°54'40
	9141 Mar 29 03:53	0°♈	
morning rise	9141 Apr 11 14:25	9°♈20'15	
	9141 May 10 16:55	0°♉	
	9141 Jun 20 13:34	0°♊	
	9141 Jul 30 04:26	0°♋	
	9141 Sep 07 06:05	0°♌	
asc. node	9141 Oct 09 05:15	24°♌19'38	
	9141 Oct 16 19:05	0°♍	
	9141 Nov 27 09:56	0°♎	
	9142 Jan 13 22:58	0°♏	
retrograde	9142 Mar 21 11:27	22°♏20'55	
min. Earth dist.	9142 Apr 23 18:54	14°♏56'02	0.58315 AU
opposition	9142 Apr 29 21:23	12°♏32'28	4°25'53
greatest brilliancy	9142 Apr 28 23:07	12°♏54'19	-1.7m
direct	9142 Jun 05 20:48	4°♏06'36	
	9142 Aug 25 22:36	0°♐	
desc. node	9142 Sep 15 03:45	10°♐26'06	
	9142 Oct 20 07:29	0°♑	
	9142 Dec 09 09:33	0°♒	
	9143 Jan 25 07:15	0°♓	
evening set	9143 Feb 17 08:12	15°♓25'17	
max. Earth dist.	9143 Mar 04 13:56	25°♓52'44	2.51785 AU
	9143 Mar 10 12:06	0°♈	
conjunction	9143 Apr 08 07:49	20°♈30'02	-1°07'03
minimum elong	9143 Apr 08 08:16	20°♈30'49	1°07'08
	9143 Apr 21 08:16	0°♉	
	9143 May 31 07:32	0°♊	
morning rise	9143 Jun 04 00:50	2°♊50'57	
	9143 Jul 09 01:05	0°♋	
	9143 Aug 16 07:19	0°♌	
asc. node	9143 Aug 27 00:03	8°♌21'36	
	9143 Sep 23 23:33	0°♍	
	9143 Nov 03 01:43	0°♎	
	9143 Dec 15 21:01	0°♏	
	9144 Feb 02 00:54	0°♐	
retrograde	9144 Apr 25 17:30	29°♐45'11	
min. Earth dist.	9144 Jun 02 20:33	20°♐45'00	0.66382 AU
opposition	9144 Jun 05 05:42	19°♐47'59	1°58'46
greatest brilliancy	9144 Jun 05 02:01	19°♐51'40	-1.4m
direct	9144 Jul 15 04:12	10°♐21'14	
desc. node	9144 Aug 02 05:23	12°♐09'15	
	9144 Sep 21 22:03	0°♑	
	9144 Nov 17 08:08	0°♒	
	9145 Jan 04 23:53	0°♓	
	9145 Feb 18 13:10	0°♈	
	9145 Apr 01 03:47	0°♉	
evening set	9145 Apr 05 20:42	3°♉30'06	
max. Earth dist.	9145 Apr 29 19:34	21°♉37'49	2.38547 AU
	9145 May 10 16:20	0°♊	
conjunction	9145 Jun 07 02:14	21°♊25'21	-0°25'59
minimum elong	9145 Jun 07 04:38	21°♊30'04	0°26'14
	9145 Jun 17 23:09	0°♋	
asc. node	9145 Jul 13 21:57	20°♋32'18	
	9145 Jul 25 21:22	0°♌	
morning rise	9145 Aug 18 21:34	18°♌49'14	
	9145 Sep 02 08:17	0°♍	
	9145 Oct 12 04:04	0°♎	
	9145 Nov 23 03:43	0°♏	
	9146 Jan 07 05:14	0°♐	
	9146 Feb 26 08:36	0°♑	
	9146 May 07 13:30	0°♒	
retrograde	9146 May 29 20:27	2°♒45'04	
	9146 Jun 19 12:45	30°℞♑	
desc. node	9146 Jun 20 05:36	29°♑48'44	
opposition	9146 Jul 09 01:09	23°♑13'15	-0°38'53
greatest brilliancy	9146 Jul 09 01:39	23°♑12'45	-1.3m
min. Earth dist.	9146 Jul 10 11:01	22°♑39'47	0.67990 AU
direct	9146 Aug 19 10:58	13°♑15'23	
	9146 Oct 19 19:41	0°♒	
	9146 Dec 14 03:22	0°♓	
	9147 Jan 29 08:14	0°♈	
	9147 Mar 12 07:42	0°♉	
	9147 Apr 20 19:13	0°♊	
	9147 May 28 23:16	0°♋	
asc. node	9147 May 31 21:42	2°♋19'33	
evening set	9147 Jun 13 03:38	12°♋02'12	
	9147 Jul 05 20:46	0°♌	
	9147 Aug 13 10:07	0°♍	
conjunction	9147 Aug 22 18:53	7°♍08'27	0°51'39
minimum elong	9147 Aug 22 15:45	7°♍02'30	0°51'30
	9147 Sep 22 10:02	0°♎	
max. Earth dist.	9147 Oct 11 14:26	13°♎53'44	2.45477 AU
morning rise	9147 Oct 25 07:23	23°♎37'08	
	9147 Nov 03 10:26	0°♏	
	9147 Dec 17 20:38	0°♐	
	9148 Feb 03 02:27	0°♑	
	9148 Mar 25 13:31	0°♒	
desc. node	9148 May 07 02:55	21°♒11'49	
	9148 May 30 00:43	0°♓	
retrograde	9148 Jul 04 18:52	6°♓26'07	
	9148 Aug 06 07:13	30°℞♒	
opposition	9148 Aug 12 09:33	27°♒42'28	-3°15'26
greatest brilliancy	9148 Aug 12 22:39	27°♒29'50	-1.5m
min. Earth dist.	9148 Aug 17 13:30	25°♒43'04	0.62993 AU
direct	9148 Sep 22 16:44	17°♒43'09	
	9148 Nov 10 21:10	0°♓	
	9149 Jan 04 12:10	0°♈	
	9149 Feb 17 12:09	0°♉	
	9149 Mar 29 16:10	0°♊	
asc. node	9149 Apr 17 21:42	14°♊53'41	
	9149 May 07 04:28	0°♋	
	9149 Jun 14 09:51	0°♌	
	9149 Jul 23 09:26	0°♍	
evening set	9149 Aug 22 21:21	22°♍42'46	
	9149 Sep 01 21:34	0°♎	
	9149 Oct 14 09:04	0°♏	
conjunction	9149 Oct 19 13:56	3°♏34'28	1°03'59
minimum elong	9149 Oct 19 14:53	3°♏36'05	1°04'08
max. Earth dist.	9149 Nov 16 10:15	22°♏22'36	2.58141 AU
	9149 Nov 27 22:39	0°♐	
morning rise	9149 Dec 09 13:27	7°♐36'28	
	9150 Jan 13 10:54	0°♑	
	9150 Mar 02 20:17	0°♒	
desc. node	9150 Mar 24 22:05	13°♒14'07	
	9150 Apr 22 20:23	0°♓	
	9150 Jun 19 21:50	0°♈	
retrograde	9150 Aug 20 02:12	16°♈30'24	
opposition	9150 Sep 24 11:33	9°♈10'09	-5°25'23
greatest brilliancy	9150 Sep 26 01:31	8°♈36'09	-2.0m
min. Earth dist.	9150 Oct 02 19:47	6°♈11'56	0.51812 AU
direct	9150 Nov 02 05:33	0°♈11'52	
	9151 Jan 19 09:57	0°♉	
	9151 Mar 04 14:01	0°♊	
asc. node	9151 Mar 05 23:03	0°♊59'53	
	9151 Apr 13 20:01	0°♋	
	9151 May 23 05:55	0°♌	
	9151 Jul 02 07:14	0°♍	
	9151 Aug 12 20:14	0°♎	

	9151 Sep 25 05:51	0°♏	
evening set	9151 Oct 13 13:07	12°♏16'51	
	9151 Nov 09 10:36	0°♐	
conjunction	9151 Dec 01 08:05	14°♐11'28	0°35'24
minimum elong	9151 Dec 01 09:08	14°♐13'11	0°35'39
max. Earth dist.	9151 Dec 11 23:10	21°♐01'15	2.65909 AU
	9151 Dec 26 00:27	0°♑	
morning rise	9152 Jan 15 14:56	13°♑04'58	
desc. node	9152 Feb 09 18:09	28°♑56'32	
	9152 Feb 11 10:30	0°♒	
	9152 Mar 30 08:20	0°♓	
	9152 May 17 20:39	0°♈	
	9152 Jul 07 00:00	0°♉	
	9152 Sep 01 15:26	0°♊	
retrograde	9152 Oct 26 03:57	14°♊38'12	
opposition	9152 Nov 25 15:14	9°♊26'32	-3°55'14
greatest brilliancy	9152 Nov 26 14:40	9°♊09'55	-2.9m
min. Earth dist.	9152 Dec 01 03:36	7°♊53'04	0.38668 AU
direct	9152 Dec 27 14:26	3°♊35'57	
asc. node	9153 Jan 21 01:23	7°♊34'51	
	9153 Mar 08 16:18	0°♋	
	9153 Apr 23 23:44	0°♌	
	9153 Jun 06 18:34	0°♍	
	9153 Jul 20 21:40	0°♎	
	9153 Sep 04 04:28	0°♏	
	9153 Oct 20 15:55	0°♐	
evening set	9153 Nov 21 13:34	20°♐17'51	
	9153 Dec 06 21:05	0°♑	
desc. node	9153 Dec 27 15:35	13°♑09'32	
max. Earth dist.	9154 Jan 02 15:31	16°♑57'41	2.68176 AU
conjunction	9154 Jan 05 15:52	18°♑52'25	-0°04'47
minimum elong	9154 Jan 05 15:44	18°♑52'13	0°04'31
behind sun begin	9154 Jan 04 21:53	18°♑23'54	
behind sun end	9154 Jan 06 09:35	19°♑20'31	
	9154 Jan 23 03:54	0°♒	
morning rise	9154 Feb 18 04:16	16°♒37'57	
	9154 Mar 10 21:59	0°♓	
	9154 Apr 25 18:38	0°♈	
	9154 Jun 09 15:25	0°♉	
	9154 Jul 23 15:05	0°♊	
	9154 Sep 05 05:36	0°♋	
	9154 Oct 20 06:05	0°♌	
asc. node	9154 Dec 09 00:42	27°♌11'39	
	9154 Dec 16 11:39	0°♍	
retrograde	9155 Jan 12 21:45	5°♍02'32	
min. Earth dist.	9155 Feb 07 19:51	0°♍36'51	0.40114 AU
	9155 Feb 09 20:33	30°℞♌	
greatest brilliancy	9155 Feb 13 21:20	28°♌45'18	-2.8m
opposition	9155 Feb 15 03:13	28°♌22'15	4°24'53
direct	9155 Mar 17 13:00	22°♌46'20	
	9155 Apr 22 05:50	0°♍	
	9155 Jun 22 08:07	0°♎	
	9155 Aug 12 08:20	0°♏	
	9155 Sep 30 16:45	0°♐	
desc. node	9155 Nov 14 14:56	27°♐40'48	
	9155 Nov 18 08:37	0°♑	
evening set	9155 Dec 27 13:39	24°♑34'40	
	9156 Jan 05 02:41	0°♒	
max. Earth dist.	9156 Jan 25 08:58	12°♒58'38	2.64953 AU
conjunction	9156 Feb 10 03:52	23°♒13'03	-0°43'00
minimum elong	9156 Feb 10 02:47	23°♒11'18	0°42'48
	9156 Feb 20 12:17	0°♓	
morning rise	9156 Mar 26 03:41	23°♓07'49	
	9156 Apr 05 05:50	0°♈	
	9156 May 18 05:38	0°♉	
	9156 Jun 28 15:21	0°♊	
	9156 Aug 07 20:06	0°♋	
	9156 Sep 16 12:18	0°♌	
asc. node	9156 Oct 25 22:12	29°♌18'31	
	9156 Oct 26 21:03	0°♍	
	9156 Dec 09 08:28	0°♎	
	9157 Feb 05 04:13	0°♏	
retrograde	9157 Mar 05 11:05	5°♏08'13	
	9157 Apr 01 10:25	30°℞♎	
min. Earth dist.	9157 Apr 05 11:21	28°♎32'18	0.53590 AU
opposition	9157 Apr 12 20:59	25°♎42'58	5°10'33
greatest brilliancy	9157 Apr 11 13:16	26°♎13'18	-1.9m
direct	9157 May 18 06:24	17°♎53'12	
	9157 Jul 07 10:57	0°♏	
	9157 Sep 06 05:06	0°♐	
desc. node	9157 Oct 01 16:20	14°♐19'40	
	9157 Oct 28 11:29	0°♑	
	9157 Dec 16 14:18	0°♒	
evening set	9158 Feb 01 13:23	0°♓12'42	
	9158 Feb 01 05:41	0°♓	
max. Earth dist.	9158 Feb 19 22:01	12°♓28'02	2.56441 AU
	9158 Mar 17 12:11	0°♈	
conjunction	9158 Mar 21 00:11	2°♈26'19	-1°06'32
minimum elong	9158 Mar 20 23:37	2°♈25'20	1°06'31
	9158 Apr 28 14:12	0°♉	
morning rise	9158 May 11 14:06	9°♉33'08	
	9158 Jun 07 20:41	0°♊	
	9158 Jul 16 21:06	0°♋	
	9158 Aug 24 08:51	0°♌	
asc. node	9158 Sep 12 19:28	15°♌05'21	
	9158 Oct 02 05:48	0°♍	
	9158 Nov 11 15:20	0°♎	
	9158 Dec 25 07:13	0°♏	
	9159 Feb 15 06:07	0°♐	
retrograde	9159 Apr 13 04:30	16°♐17'21	
min. Earth dist.	9159 May 19 14:32	7°♐50'08	0.63969 AU
opposition	9159 May 23 11:24	6°♐17'39	2°58'21
greatest brilliancy	9159 May 23 02:03	6°♐26'58	-1.5m
	9159 Jun 10 12:12	30°℞♏	
direct	9159 Jul 01 10:47	27°♏10'25	
	9159 Jul 24 06:25	0°♐	
desc. node	9159 Aug 19 18:15	8°♐28'33	
	9159 Oct 04 16:38	0°♑	
	9159 Nov 26 14:33	0°♒	
	9160 Jan 13 09:07	0°♓	
	9160 Feb 26 17:34	0°♈	
evening set	9160 Mar 16 03:52	13°♈03'31	
max. Earth dist.	9160 Mar 30 20:58	23°♈43'17	2.43679 AU
	9160 Apr 08 09:44	0°♉	
conjunction	9160 May 11 11:17	24°♉55'08	-0°50'38
minimum elong	9160 May 11 13:51	25°♉00'03	0°50'49
	9160 May 18 01:57	0°♊	
	9160 Jun 25 12:26	0°♋	
morning rise	9160 Jul 17 22:57	17°♋42'27	
asc. node	9160 Jul 30 15:51	27°♋43'45	
	9160 Aug 02 13:02	0°♌	
	9160 Sep 10 00:46	0°♍	
	9160 Oct 19 20:57	0°♎	
	9160 Nov 30 23:47	0°♏	
	9161 Jan 15 16:45	0°♐	
	9161 Mar 09 18:19	0°♑	
retrograde	9161 May 16 12:38	20°♑18'08	
opposition	9161 Jun 25 23:51	10°♑33'31	0°22'18
greatest brilliancy	9161 Jun 25 24:00	10°♑33'23	-1.3m

min. Earth dist.	9161 Jun 25 21:51	10°♌35'31	0.68139 AU
desc. node	9161 Jul 06 18:56	6°♌25'44	
direct	9161 Aug 06 00:13	0°♌44'49	
	9161 Nov 01 08:03	0°♒	
	9161 Dec 22 19:54	0°♓	
	9162 Feb 06 03:50	0°♈	
	9162 Mar 19 22:03	0°♉	
	9162 Apr 28 08:56	0°♊	
evening set	9162 May 14 23:32	12°♊58'18	
	9162 Jun 05 13:19	0°♋	
asc. node	9162 Jun 17 13:16	9°♋30'47	
	9162 Jul 13 10:22	0°♌	
conjunction	9162 Jul 24 10:44	8°♌39'58	0°26'00
minimum elong	9162 Jul 24 08:04	8°♌34'43	0°25'44
	9162 Aug 20 21:52	0°♍	
max. Earth dist.	9162 Sep 14 20:09	18°♍54'29	2.39927 AU
	9162 Sep 29 19:04	0°♎	
morning rise	9162 Oct 02 05:20	1°♎46'55	
	9162 Nov 10 17:21	0°♏	
	9162 Dec 25 05:52	0°♐	
	9163 Feb 11 03:40	0°♑	
	9163 Apr 06 10:05	0°♒	
desc. node	9163 May 24 17:46	19°♒16'17	
retrograde	9163 Jun 20 17:51	23°♒08'35	
opposition	9163 Jul 30 03:20	14°♒02'57	-2°15'36
greatest brilliancy	9163 Jul 30 09:30	13°♒56'56	-1.4m
min. Earth dist.	9163 Aug 02 20:05	12°♒36'20	0.65730 AU
direct	9163 Sep 09 16:42	3°♒59'41	
	9163 Nov 26 21:43	0°♓	
	9164 Jan 15 06:30	0°♈	
	9164 Feb 27 03:30	0°♉	
	9164 Apr 06 22:03	0°♊	
asc. node	9164 May 04 13:50	21°♊36'16	
	9164 May 15 05:22	0°♋	
	9164 Jun 22 06:09	0°♌	
evening set	9164 Jul 28 05:21	27°♌52'33	
	9164 Jul 31 00:11	0°♍	
	9164 Sep 09 06:05	0°♎	
conjunction	9164 Sep 29 07:17	14°♎25'58	1°06'41
minimum elong	9164 Sep 29 07:03	14°♎25'33	1°06'44
	9164 Oct 21 11:43	0°♏	
max. Earth dist.	9164 Nov 04 11:50	9°♏37'05	2.53697 AU
morning rise	9164 Nov 23 03:51	22°♏12'18	
	9164 Dec 04 22:05	0°♐	
	9165 Jan 20 13:42	0°♑	
	9165 Mar 10 17:43	0°♒	
desc. node	9165 Apr 10 14:10	17°♒44'03	
	9165 May 03 08:44	0°♓	
retrograde	9165 Jul 31 07:59	29°♓49'09	
opposition	9165 Sep 06 04:56	21°♓50'23	-4°42'43
greatest brilliancy	9165 Sep 07 08:55	21°♓24'18	-1.8m
min. Earth dist.	9165 Sep 13 11:26	19°♓08'13	0.56832 AU
direct	9165 Oct 16 08:19	12°♓16'23	
	9165 Dec 14 01:32	0°♈	
	9166 Feb 01 07:09	0°♉	
	9166 Mar 14 23:50	0°♊	
asc. node	9166 Mar 22 15:04	5°♊44'55	
	9166 Apr 23 05:50	0°♋	
	9166 Jun 01 00:11	0°♌	
	9166 Jul 10 12:03	0°♍	
	9166 Aug 20 12:37	0°♎	
evening set	9166 Sep 25 09:36	25°♎09'13	
	9166 Oct 02 11:20	0°♏	
conjunction	9166 Nov 15 20:42	29°♏40'59	0°48'52
minimum elong	9166 Nov 15 22:02	29°♏43'10	0°49'05
	9166 Nov 16 08:18	0°♐	
max. Earth dist.	9166 Dec 02 14:28	10°♐35'59	2.63515 AU
morning rise	9167 Jan 01 18:48	29°♐58'47	
	9167 Jan 01 19:34	0°♑	
	9167 Feb 18 11:32	0°♒	
desc. node	9167 Feb 26 09:03	4°♒54'33	
	9167 Apr 08 05:33	0°♓	
	9167 May 28 19:36	0°♈	
	9167 Jul 24 01:54	0°♉	
retrograde	9167 Sep 27 03:28	18°♉50'03	
opposition	9167 Oct 29 12:40	12°♉48'08	-5°28'31
greatest brilliancy	9167 Oct 31 06:24	12°♉15'08	-2.5m
min. Earth dist.	9167 Nov 06 20:19	10°♉11'15	0.43260 AU
direct	9167 Dec 03 16:13	5°♉31'52	
asc. node	9168 Feb 07 16:13	29°♉09'11	
	9168 Feb 09 02:22	0°♊	
	9168 Mar 25 10:18	0°♋	
	9168 May 06 04:20	0°♌	
	9168 Jun 16 19:08	0°♍	
	9168 Jul 29 13:16	0°♎	
	9168 Sep 11 21:31	0°♏	
	9168 Oct 27 18:06	0°♐	
evening set	9168 Nov 06 19:11	6°♐28'14	
	9168 Dec 13 15:21	0°♑	
conjunction	9168 Dec 22 21:24	5°♑52'38	0°11'11
minimum elong	9168 Dec 22 21:45	5°♑53'12	0°11'27
behind sun begin	9168 Dec 22 08:36	5°♑32'20	
behind sun end	9168 Dec 23 10:55	6°♑14'05	
max. Earth dist.	9168 Dec 25 02:33	7°♑16'59	2.67960 AU
desc. node	9169 Jan 13 05:40	19°♑25'19	
	9169 Jan 29 21:45	0°♒	
morning rise	9169 Feb 04 17:16	3°♒41'32	
	9169 Mar 17 23:59	0°♓	
	9169 May 03 15:14	0°♈	
	9169 Jun 18 20:30	0°♉	
	9169 Aug 04 01:36	0°♊	
	9169 Sep 20 20:30	0°♋	
	9169 Nov 21 01:42	0°♌	
retrograde	9169 Dec 16 00:16	3°♌59'42	
asc. node	9169 Dec 25 18:05	3°♌20'47	
	9170 Jan 10 17:17	30°℞♋	
min. Earth dist.	9170 Jan 12 10:18	29°♋32'28	0.36897 AU
opposition	9170 Jan 15 13:55	28°♋40'57	1°36'11
greatest brilliancy	9170 Jan 15 07:52	28°♋45'04	-3.0m
direct	9170 Feb 13 21:10	23°♋46'37	
	9170 Mar 17 23:55	0°♌	
	9170 May 16 16:46	0°♍	
	9170 Jul 04 16:49	0°♎	
	9170 Aug 21 11:40	0°♏	
	9170 Oct 08 09:13	0°♐	
	9170 Nov 25 08:13	0°♑	
desc. node	9170 Dec 01 03:55	3°♑39'09	
evening set	9170 Dec 13 18:02	11°♑34'17	
	9171 Jan 11 20:13	0°♒	
max. Earth dist.	9171 Jan 16 07:29	2°♒51'06	2.66861 AU
conjunction	9171 Jan 27 04:30	9°♒48'58	-0°29'08
minimum elong	9171 Jan 27 03:41	9°♒47'40	0°28'55
	9171 Feb 27 07:43	0°♓	
morning rise	9171 Mar 12 03:35	8°♓26'13	
	9171 Apr 13 09:46	0°♈	
	9171 May 26 23:43	0°♉	
	9171 Jul 08 03:27	0°♊	
	9171 Aug 18 05:03	0°♋	
	9171 Sep 27 22:21	0°♌	

	9171 Nov 09 00:16	0°♍	
asc. node	9171 Nov 12 16:59	2°♍30'53	
	9171 Dec 27 20:45	0°♎	
retrograde	9172 Feb 16 10:34	15°♎02'55	
min. Earth dist.	9172 Mar 15 23:32	9°♎22'37	0.48199 AU
greatest brilliancy	9172 Mar 22 16:28	6°♎57'41	-2.2m
opposition	9172 Mar 24 07:22	6°♎22'19	5°34'27
	9172 Apr 16 19:06	30°℞♍	
direct	9172 Apr 26 21:02	29°♍18'45	
	9172 May 07 07:29	0°♎	
	9172 Jul 23 23:38	0°♏	
	9172 Sep 15 17:31	0°♐	
desc. node	9172 Oct 18 04:10	19°♐09'41	
	9172 Nov 05 03:23	0°♑	
	9172 Dec 23 14:08	0°♒	
evening set	9173 Jan 17 18:38	16°♒05'23	
	9173 Feb 08 01:54	0°♓	
max. Earth dist.	9173 Feb 08 22:22	0°♓33'47	2.60362 AU
conjunction	9173 Mar 04 14:47	16°♓24'07	-1°00'20
minimum elong	9173 Mar 04 13:45	16°♓22'21	1°00'14
	9173 Mar 24 11:35	0°♈	
morning rise	9173 Apr 21 17:41	19°♈50'54	
	9173 May 05 20:49	0°♉	
	9173 Jun 15 12:11	0°♊	
	9173 Jul 24 21:29	0°♋	
	9173 Sep 01 17:23	0°♌	
asc. node	9173 Sep 29 12:26	21°♌20'22	
	9173 Oct 10 22:48	0°♍	
	9173 Nov 20 22:53	0°♎	
	9174 Jan 05 09:24	0°♏	
	9174 Mar 13 13:15	0°♐	
retrograde	9174 Mar 29 23:45	1°♐44'47	
	9174 Apr 14 16:10	30°℞♏	
min. Earth dist.	9174 May 03 11:18	23°♏56'09	0.60579 AU
opposition	9174 May 08 19:20	21°♏49'40	3°55'30
greatest brilliancy	9174 May 08 02:10	22°♏06'38	-1.6m
direct	9174 Jun 15 13:25	13°♏07'25	
	9174 Aug 16 20:17	0°♐	
desc. node	9174 Sep 05 06:24	9°♐10'09	
	9174 Oct 14 09:48	0°♑	
	9174 Dec 04 08:12	0°♒	
	9175 Jan 20 13:09	0°♓	
evening set	9175 Feb 26 21:46	25°♓11'41	
	9175 Mar 05 19:41	0°♈	
max. Earth dist.	9175 Mar 13 02:27	5°♈06'32	2.49007 AU
	9175 Apr 16 15:00	0°♉	
conjunction	9175 Apr 19 18:01	2°♉18'23	-1°03'55
minimum elong	9175 Apr 19 19:14	2°♉20'37	1°04'04
	9175 May 26 11:56	0°♊	
morning rise	9175 Jun 19 00:40	18°♊11'54	
	9175 Jul 04 02:53	0°♋	
	9175 Aug 11 06:41	0°♌	
asc. node	9175 Aug 17 08:52	4°♌46'43	
	9175 Sep 18 20:19	0°♍	
	9175 Oct 28 18:47	0°♎	
	9175 Dec 10 05:07	0°♏	
	9176 Jan 26 02:31	0°♐	
	9176 Mar 26 08:15	0°♑	
retrograde	9176 May 03 08:07	7°♑40'30	
	9176 Jun 07 06:43	30°℞♐	
min. Earth dist.	9176 Jun 11 07:37	28°♐24'20	0.67285 AU
opposition	9176 Jun 12 21:25	27°♐46'39	1°23'20
greatest brilliancy	9176 Jun 12 19:50	27°♐48'14	-1.3m
direct	9176 Jul 23 06:53	18°♐11'03	
desc. node	9176 Jul 23 08:27	18°♐11'03	
	9176 Sep 11 22:25	0°♑	
	9176 Nov 11 08:07	0°♒	
	9176 Dec 30 20:15	0°♓	
	9177 Feb 13 15:55	0°♈	
	9177 Mar 27 08:19	0°♉	
evening set	9177 Apr 18 23:35	17°♉01'41	
	9177 May 05 20:38	0°♊	
max. Earth dist.	9177 Jun 09 09:02	27°♊02'40	2.36646 AU
	9177 Jun 13 02:47	0°♋	
conjunction	9177 Jun 23 16:02	8°♋21'16	-0°07'43
minimum elong	9177 Jun 23 16:54	8°♋22'58	0°08'00
behind sun begin	9177 Jun 22 14:22	7°♋30'25	
behind sun end	9177 Jun 24 19:27	9°♋15'32	
asc. node	9177 Jul 04 06:44	16°♋45'51	
	9177 Jul 21 00:27	0°♌	
	9177 Aug 28 10:54	0°♍	
morning rise	9177 Sep 04 22:46	5°♍44'49	
	9177 Oct 07 06:04	0°♎	
	9177 Nov 18 03:36	0°♏	
	9178 Jan 01 21:35	0°♐	
	9178 Feb 19 22:06	0°♑	
	9178 Apr 21 03:54	0°♒	
retrograde	9178 Jun 06 15:12	10°♒24'37	
desc. node	9178 Jun 10 07:58	10°♒19'30	
opposition	9178 Jul 16 14:32	1°♒01'03	-1°14'44
greatest brilliancy	9178 Jul 16 16:20	0°♒59'17	-1.3m
min. Earth dist.	9178 Jul 18 19:44	0°♒08'39	0.67461 AU
	9178 Jul 19 04:32	30°℞♑	
direct	9178 Aug 27 03:36	20°♑59'57	
	9178 Oct 08 17:00	0°♒	
	9178 Dec 07 21:12	0°♓	
	9179 Jan 23 23:11	0°♈	
	9179 Mar 07 05:29	0°♉	
	9179 Apr 15 19:11	0°♊	
asc. node	9179 May 22 04:51	28°♊34'19	
	9179 May 24 00:10	0°♋	
evening set	9179 Jun 30 06:11	29°♋27'50	
	9179 Jun 30 22:31	0°♌	
greatest brilliancy	9179 Jul 12 05:33	8°♌51'46	1.2m
	9179 Aug 08 12:54	0°♍	
conjunction	9179 Sep 06 18:49	22°♍02'27	1°00'31
minimum elong	9179 Sep 06 16:41	21°♍58'29	1°00'27
	9179 Sep 17 14:06	0°♎	
max. Earth dist.	9179 Oct 21 21:28	24°♎35'34	2.48565 AU
	9179 Oct 29 15:17	0°♏	
morning rise	9179 Nov 05 20:01	4°♏58'49	
	9179 Dec 12 24:00	0°♐	
	9180 Jan 28 22:16	0°♑	
	9180 Mar 19 07:03	0°♒	
desc. node	9180 Apr 27 04:49	20°♒47'38	
	9180 May 17 00:13	0°♓	
retrograde	9180 Jul 13 21:28	14°♓52'50	
opposition	9180 Aug 20 23:16	6°♓23'10	-3°48'55
greatest brilliancy	9180 Aug 21 17:16	6°♓05'59	-1.6m
min. Earth dist.	9180 Aug 26 21:45	4°♓07'15	0.61073 AU
	9180 Sep 07 22:33	30°℞♒	
direct	9180 Sep 30 23:28	26°♒29'34	
	9180 Oct 25 10:41	0°♓	
	9180 Dec 28 09:33	0°♈	
	9181 Feb 11 14:54	0°♉	
	9181 Mar 24 04:42	0°♊	
asc. node	9181 Apr 08 06:37	11°♊35'24	
	9181 May 01 21:38	0°♋	
	9181 Jun 09 06:19	0°♌	
	9181 Jul 18 08:49	0°♍	

	9181 Aug 28 00:01	0°♎	
evening set	9181 Sep 04 22:01	5°♎41'10	
	9181 Oct 09 14:19	0°♏	
conjunction	9181 Oct 30 01:04	13°♏54'34	0°59'37
minimum elong	9181 Oct 30 02:19	13°♏56'39	0°59'49
max. Earth dist.	9181 Nov 22 17:07	29°♏39'48	2.60301 AU
	9181 Nov 23 05:24	0°♐	
morning rise	9181 Dec 18 07:26	16°♐20'12	
	9182 Jan 08 16:05	0°♑	
	9182 Feb 25 17:21	0°♒	
desc. node	9182 Mar 15 00:04	10°♒32'09	
	9182 Apr 16 16:45	0°♓	
	9182 Jun 09 21:36	0°♈	
retrograde	9182 Sep 01 14:13	27°♈32'11	
opposition	9182 Oct 06 01:27	20°♈37'07	-5°39'05
greatest brilliancy	9182 Oct 07 19:29	20°♈00'46	-2.2m
min. Earth dist.	9182 Oct 14 18:33	17°♈37'38	0.48812 AU
direct	9182 Nov 12 18:18	12°♈08'05	
	9183 Jan 08 13:55	0°♉	
asc. node	9183 Feb 24 09:24	29°♉28'48	
	9183 Feb 25 03:19	0°♊	
	9183 Apr 07 10:10	0°♋	
	9183 May 17 09:30	0°♌	
	9183 Jun 26 20:12	0°♍	
	9183 Aug 07 16:42	0°♎	
	9183 Sep 20 08:20	0°♏	
evening set	9183 Oct 23 02:42	21°♏45'53	
	9183 Nov 04 17:17	0°♐	
conjunction	9183 Dec 09 18:12	22°♐35'20	0°26'42
minimum elong	9183 Dec 09 19:02	22°♐36'39	0°26'59
max. Earth dist.	9183 Dec 17 06:18	27°♐22'58	2.66877 AU
	9183 Dec 21 08:48	0°♑	
morning rise	9184 Jan 23 08:58	20°♑56'43	
desc. node	9184 Jan 30 19:27	25°♑38'48	
	9184 Feb 06 16:49	0°♒	
	9184 Mar 25 06:15	0°♓	
	9184 May 11 23:05	0°♈	
	9184 Jun 29 06:27	0°♉	
	9184 Aug 18 23:34	0°♊	
	9184 Oct 27 08:43	0°♋	
retrograde	9184 Nov 13 14:48	1°♋50'17	
	9184 Nov 30 21:05	30°℞♊	
opposition	9184 Dec 13 11:11	26°♊54'23	-2°12'02
greatest brilliancy	9184 Dec 13 19:44	26°♊48'40	-3.0m
min. Earth dist.	9184 Dec 16 05:06	26°♊10'19	0.37093 AU
asc. node	9185 Jan 11 10:03	21°♊43'05	
direct	9185 Jan 12 17:48	21°♊42'21	
	9185 Feb 18 13:10	0°♋	
	9185 Apr 14 13:27	0°♌	
	9185 May 30 16:04	0°♍	
	9185 Jul 14 22:30	0°♎	
	9185 Aug 29 21:30	0°♏	
	9185 Oct 15 18:37	0°♐	
evening set	9185 Nov 29 17:57	28°♐26'53	
	9185 Dec 02 04:56	0°♑	
desc. node	9185 Dec 17 17:10	9°♑48'00	
max. Earth dist.	9186 Jan 07 17:05	23°♑06'22	2.67940 AU
conjunction	9186 Jan 13 11:45	26°♑46'41	-0°14'00
minimum elong	9186 Jan 13 11:20	26°♑46'01	0°13'45
behind sun begin	9186 Jan 13 01:50	26°♑30'56	
behind sun end	9186 Jan 13 20:49	27°♑01'07	
	9186 Jan 18 13:11	0°♒	
morning rise	9186 Feb 26 00:32	24°♒41'59	
	9186 Mar 06 04:38	0°♓	
	9186 Apr 20 18:10	0°♈	
	9186 Jun 04 02:37	0°♉	
	9186 Jul 17 07:30	0°♊	
	9186 Aug 28 17:37	0°♋	
	9186 Oct 10 11:06	0°♌	
	9186 Nov 26 05:47	0°♍	
asc. node	9186 Nov 29 09:14	1°♍46'32	
retrograde	9187 Jan 26 13:06	21°♍06'26	
min. Earth dist.	9187 Feb 21 22:30	16°♍19'57	0.42786 AU
greatest brilliancy	9187 Feb 28 15:28	14°♍08'10	-2.6m
opposition	9187 Mar 02 05:05	13°♍37'01	5°13'06
direct	9187 Apr 02 18:52	7°♍29'00	
	9187 Jun 12 08:40	0°♎	
	9187 Aug 05 18:30	0°♏	
	9187 Sep 25 07:04	0°♐	
desc. node	9187 Nov 04 17:29	24°♐36'42	
	9187 Nov 13 11:31	0°♑	
	9187 Dec 31 10:57	0°♒	
evening set	9188 Jan 04 13:32	2°♒36'42	
max. Earth dist.	9188 Jan 30 21:23	19°♒32'19	2.63534 AU
	9188 Feb 15 21:15	0°♓	
conjunction	9188 Feb 18 10:55	1°♓41'38	-0°50'13
minimum elong	9188 Feb 18 09:46	1°♓39'44	0°50'04
	9188 Mar 31 12:08	0°♈	
morning rise	9188 Apr 04 07:34	2°♈37'17	
	9188 May 13 06:52	0°♉	
	9188 Jun 23 09:52	0°♊	
	9188 Aug 02 07:00	0°♋	
	9188 Sep 10 14:34	0°♌	
asc. node	9188 Oct 16 07:12	26°♌56'48	
	9188 Oct 20 10:00	0°♍	
	9188 Dec 01 14:03	0°♎	
	9189 Jan 20 10:00	0°♏	
retrograde	9189 Mar 14 18:04	15°♏40'33	
min. Earth dist.	9189 Apr 16 01:39	8°♏37'03	0.56288 AU
opposition	9189 Apr 22 19:11	6°♏00'23	4°46'46
greatest brilliancy	9189 Apr 21 16:40	6°♏26'08	-1.8m
	9189 May 11 00:41	30°℞♎	
direct	9189 May 29 02:16	27°♎49'44	
	9189 Jun 17 14:25	0°♏	
	9189 Aug 30 03:13	0°♐	
desc. node	9189 Sep 21 19:14	12°♐12'15	
	9189 Oct 23 00:59	0°♑	
	9189 Dec 11 17:25	0°♒	
	9190 Jan 27 13:27	0°♓	
evening set	9190 Feb 10 09:52	9°♓12'27	
max. Earth dist.	9190 Feb 26 23:11	20°♓25'16	2.53934 AU
	9190 Mar 12 20:07	0°♈	
conjunction	9190 Mar 31 03:33	12°♈53'41	-1°07'42
minimum elong	9190 Mar 31 03:30	12°♈53'36	1°07'44
	9190 Apr 23 19:56	0°♉	
morning rise	9190 May 24 08:36	22°♉42'53	
	9190 Jun 02 23:06	0°♊	
	9190 Jul 11 20:00	0°♋	
	9190 Aug 19 04:40	0°♌	
asc. node	9190 Sep 03 02:12	11°♌36'55	
	9190 Sep 26 22:13	0°♍	
	9190 Nov 06 01:55	0°♎	
	9190 Dec 19 02:35	0°♏	
	9191 Feb 06 07:33	0°♐	
retrograde	9191 Apr 20 23:19	24°♐34'03	
min. Earth dist.	9191 May 28 08:44	15°♐48'23	0.65424 AU
opposition	9191 May 31 10:18	14°♐35'03	2°23'51
greatest brilliancy	9191 May 31 04:25	14°♐40'55	-1.4m
direct	9191 Jul 09 23:40	5°♐16'34	

desc. node	9191 Aug 09 21:29	10°♐12'45	
	9191 Sep 27 07:57	0°♑	
	9191 Nov 21 03:23	0°♒	
	9192 Jan 08 11:09	0°♓	
	9192 Feb 21 23:38	0°♈	
evening set	9192 Mar 27 12:02	24°♈42'57	
	9192 Apr 03 16:10	0°♉	
max. Earth dist.	9192 Apr 14 02:32	7°♉46'23	2.40729 AU
	9192 May 13 07:02	0°♊	
conjunction	9192 May 25 23:20	9°♊50'21	-0°38'00
minimum elong	9192 May 26 02:08	9°♊55'50	0°38'13
	9192 Jun 20 15:41	0°♋	
asc. node	9192 Jul 20 23:16	23°♋58'00	
	9192 Jul 28 14:46	0°♌	
morning rise	9192 Aug 04 23:46	5°♌48'24	
	9192 Sep 05 01:16	0°♍	
	9192 Oct 14 19:53	0°♎	
	9192 Nov 25 19:06	0°♏	
	9193 Jan 09 23:58	0°♐	
	9193 Mar 01 23:32	0°♑	
retrograde	9193 May 24 02:58	27°♑56'11	
desc. node	9193 Jun 26 21:59	20°♑51'41	
opposition	9193 Jul 03 11:17	18°♑18'09	-0°13'34
greatest brilliancy	9193 Jul 03 11:23	18°♑18'04	-1.3m
min. Earth dist.	9193 Jul 04 04:40	18°♑00'56	0.68193 AU
direct	9193 Aug 13 17:56	8°♑24'03	
	9193 Oct 24 15:25	0°♒	
	9193 Dec 17 04:40	0°♓	
	9194 Feb 01 01:43	0°♈	
	9194 Mar 15 00:17	0°♉	
	9194 Apr 23 12:20	0°♊	
evening set	9194 May 31 01:17	29°♊29'23	
	9194 May 31 16:45	0°♋	
asc. node	9194 Jun 07 22:48	5°♋44'53	
	9194 Jul 08 13:45	0°♌	
conjunction	9194 Aug 10 08:07	25°♌35'48	0°42'06
minimum elong	9194 Aug 10 04:41	25°♌29'10	0°41'53
	9194 Aug 16 01:22	0°♍	
	9194 Sep 24 22:42	0°♎	
max. Earth dist.	9194 Oct 02 00:59	5°♎11'30	2.42956 AU
morning rise	9194 Oct 15 18:14	15°♎06'05	
	9194 Nov 05 20:36	0°♏	
	9194 Dec 20 05:44	0°♐	
	9195 Feb 05 15:40	0°♑	
	9195 Mar 29 23:29	0°♒	
desc. node	9195 May 14 19:29	21°♒19'16	
	9195 Jun 14 21:04	0°♓	
retrograde	9195 Jun 29 04:28	1°♓09'27	
	9195 Jul 12 17:23	30°♒	
opposition	9195 Aug 07 04:21	22°♒15'17	-2°50'37
greatest brilliancy	9195 Aug 07 14:06	22°♒05'50	-1.4m
min. Earth dist.	9195 Aug 11 16:16	20°♒30'40	0.64348 AU
direct	9195 Sep 17 15:22	12°♒13'28	
	9195 Nov 18 03:47	0°♓	
	9196 Jan 09 03:37	0°♈	
	9196 Feb 21 16:23	0°♉	
	9196 Apr 01 16:51	0°♊	
asc. node	9196 Apr 24 22:49	18°♊04'17	
	9196 May 10 03:02	0°♋	
	9196 Jun 17 06:02	0°♌	
	9196 Jul 26 02:13	0°♍	
evening set	9196 Aug 12 03:35	12°♍50'59	
	9196 Sep 04 10:10	0°♎	
conjunction	9196 Oct 11 03:26	26°♎07'18	1°05'59
minimum elong	9196 Oct 11 03:59	26°♎08'15	1°06'05
	9196 Oct 16 17:34	0°♏	
max. Earth dist.	9196 Nov 11 15:58	17°♏40'49	2.56238 AU
	9196 Nov 30 04:03	0°♐	
morning rise	9196 Dec 02 16:52	1°♐40'06	
	9197 Jan 15 16:14	0°♑	
	9197 Mar 05 07:34	0°♒	
desc. node	9197 Mar 31 14:51	15°♒32'30	
	9197 Apr 26 04:42	0°♓	
	9197 Jun 27 17:52	0°♈	
retrograde	9197 Aug 11 03:29	9°♈31'39	
opposition	9197 Sep 16 06:15	1°♈52'55	-5°08'58
greatest brilliancy	9197 Sep 17 16:01	1°♈22'04	-1.9m
	9197 Sep 21 09:47	30°♓	
min. Earth dist.	9197 Sep 24 04:45	28°♓59'47	0.54149 AU
direct	9197 Oct 25 17:23	22°♓36'17	
	9197 Nov 30 01:57	0°♈	
	9198 Jan 24 18:28	0°♉	
	9198 Mar 08 16:32	0°♊	
asc. node	9198 Mar 13 00:02	3°♊11'15	
	9198 Apr 17 10:29	0°♋	
	9198 May 26 12:20	0°♌	
	9198 Jul 05 06:16	0°♍	
	9198 Aug 15 12:06	0°♎	
	9198 Sep 27 15:27	0°♏	
evening set	9198 Oct 05 22:59	5°♏38'00	
	9198 Nov 11 15:23	0°♐	
conjunction	9198 Nov 24 20:00	8°♐35'47	0°41'15
minimum elong	9198 Nov 24 21:12	8°♐37'44	0°41'30
max. Earth dist.	9198 Dec 08 02:12	17°♐09'59	2.64939 AU
	9198 Dec 28 03:07	0°♑	
morning rise	9199 Jan 09 18:30	8°♑02'09	
	9199 Feb 13 14:58	0°♒	
desc. node	9199 Feb 16 10:39	1°♒45'59	
	9199 Apr 02 20:23	0°♓	
	9199 May 22 03:10	0°♈	
	9199 Jul 13 05:33	0°♉	
	9199 Sep 19 17:56	0°♊	
retrograde	9199 Oct 13 11:30	3°♊13'00	
	9199 Nov 05 11:07	30°♉	
opposition	9199 Nov 13 17:03	27°♉40'25	-4°48'21
greatest brilliancy	9199 Nov 15 02:51	27°♉15'11	-2.7m
min. Earth dist.	9199 Nov 20 19:41	25°♉33'43	0.40523 AU
direct	9199 Dec 17 03:35	21°♉11'25	
	9200 Jan 23 12:08	0°♊	
asc. node	9200 Jan 29 02:34	2°♊30'56	
	9200 Mar 16 07:39	0°♋	
	9200 Apr 28 23:56	0°♌	
	9200 Jun 10 14:47	0°♍	
	9200 Jul 24 00:12	0°♎	
	9200 Sep 06 19:08	0°♏	
	9200 Oct 22 22:40	0°♐	
evening set	9200 Nov 15 07:51	14°♐57'26	
	9200 Dec 08 23:42	0°♑	
conjunction	9200 Dec 30 19:19	13°♑50'16	0°01'53
minimum elong	9200 Dec 30 19:25	13°♑50'25	0°02'10
behind sun begin	9200 Dec 30 01:03	13°♑21'19	
behind sun end	9200 Dec 31 13:46	14°♑19'30	
max. Earth dist.	9200 Dec 30 03:16	13°♑24'50	2.68185 AU
desc. node	9201 Jan 03 07:37	16°♑03'58	
	9201 Jan 25 06:13	0°♒	
morning rise	9201 Feb 12 09:44	11°♒33'51	
	9201 Mar 13 03:50	0°♓	
	9201 Apr 28 08:35	0°♈	
	9201 Jun 12 18:42	0°♉	

	9201 Jul 27 14:42	0°♊	
	9201 Sep 10 14:28	0°♋	
	9201 Oct 28 19:54	0°♌	
asc. node	9201 Dec 16 02:21	20°♌31'27	
retrograde	9202 Jan 01 07:32	22°♌20'43	
min. Earth dist.	9202 Jan 27 10:42	18°♌02'16	0.38347 AU
greatest brilliancy	9202 Feb 01 11:07	16°♌35'02	-2.9m
opposition	9202 Feb 02 07:05	16°♌20'31	3°25'35
direct	9202 Mar 03 23:28	11°♌07'33	
	9202 May 04 17:08	0°♍	
	9202 Jun 27 06:40	0°♎	
	9202 Aug 15 14:49	0°♏	
	9202 Oct 03 05:57	0°♐	
	9202 Nov 20 13:54	0°♑	
desc. node	9202 Nov 21 06:22	0°♑25'41	
evening set	9202 Dec 21 15:39	19°♑29'33	
	9203 Jan 07 05:36	0°♒	
max. Earth dist.	9203 Jan 21 11:40	9°♒06'35	2.65907 AU
conjunction	9203 Feb 04 02:48	17°♒53'38	-0°37'27
minimum elong	9203 Feb 04 01:49	17°♒52'03	0°37'15
	9203 Feb 22 16:36	0°♓	
morning rise	9203 Mar 20 13:36	17°♓08'52	
	9203 Apr 08 14:38	0°♈	
	9203 May 21 21:09	0°♉	
	9203 Jul 02 15:01	0°♊	
	9203 Aug 12 04:21	0°♋	
	9203 Sep 21 06:03	0°♌	
	9203 Nov 01 03:53	0°♍	
asc. node	9203 Nov 02 23:41	1°♍17'56	
	9203 Dec 16 01:23	0°♎	
retrograde	9204 Feb 26 22:48	27°♎19'55	
min. Earth dist.	9204 Mar 27 21:26	21°♎08'12	0.51244 AU
greatest brilliancy	9204 Apr 03 07:13	18°♎44'37	-2.1m
opposition	9204 Apr 04 18:45	18°♎11'17	5°24'47
direct	9204 May 09 08:51	10°♎40'53	
	9204 Jul 14 12:34	0°♏	
	9204 Sep 09 13:54	0°♐	
desc. node	9204 Oct 08 07:30	16°♐32'40	
	9204 Oct 30 23:49	0°♑	
	9204 Dec 18 20:10	0°♒	
evening set	9205 Jan 26 02:26	24°♒31'00	
	9205 Feb 03 10:55	0°♓	
max. Earth dist.	9205 Feb 15 02:24	7°♓43'38	2.58297 AU
conjunction	9205 Mar 13 17:37	25°♓47'08	-1°04'31
minimum elong	9205 Mar 13 16:48	25°♓45'45	1°04'29
	9205 Mar 19 20:02	0°♈	
	9205 May 01 02:15	0°♉	
morning rise	9205 May 02 14:18	1°♉05'30	
	9205 Jun 10 13:28	0°♊	
	9205 Jul 19 17:59	0°♋	
	9205 Aug 27 09:02	0°♌	
asc. node	9205 Sep 19 21:12	18°♌10'39	
	9205 Oct 05 08:36	0°♍	
	9205 Nov 14 21:48	0°♎	
	9205 Dec 29 01:37	0°♏	
	9206 Feb 21 23:08	0°♐	
retrograde	9206 Apr 07 04:47	10°♐42'22	
min. Earth dist.	9206 May 12 19:05	2°♐31'54	0.62580 AU
opposition	9206 May 17 08:14	0°♐43'33	3°22'47
greatest brilliancy	9206 May 16 19:41	0°♐55'59	-1.5m
	9206 May 19 04:21	30°℞♏	
direct	9206 Jun 24 20:00	21°♏46'43	
	9206 Aug 04 18:18	0°♐	
desc. node	9206 Aug 26 09:41	8°♐41'47	
	9206 Oct 08 02:51	0°♑	
	9206 Nov 29 04:09	0°♒	
	9207 Jan 15 17:57	0°♓	
	9207 Mar 01 02:57	0°♈	
evening set	9207 Mar 08 23:57	5°♈31'39	
max. Earth dist.	9207 Mar 22 23:44	15°♈29'35	2.46093 AU
	9207 Apr 11 21:42	0°♉	
conjunction	9207 May 02 02:53	15°♉04'59	-0°57'40
minimum elong	9207 May 02 04:54	15°♉08'49	0°57'52
	9207 May 21 16:57	0°♊	
	9207 Jun 29 05:47	0°♋	
morning rise	9207 Jul 05 09:10	4°♋49'51	
	9207 Aug 06 07:44	0°♌	
asc. node	9207 Aug 07 17:33	1°♌06'27	
	9207 Sep 13 19:41	0°♍	
	9207 Oct 23 15:22	0°♎	
	9207 Dec 04 19:06	0°♏	
	9208 Jan 19 19:19	0°♐	
	9208 Mar 14 17:16	0°♑	
retrograde	9208 May 10 21:19	15°♑26'53	
opposition	9208 Jun 20 10:31	5°♑37'35	0°47'32
greatest brilliancy	9208 Jun 20 10:13	5°♑37'52	-1.3m
min. Earth dist.	9208 Jun 19 16:10	5°♑55'51	0.67884 AU
	9208 Jul 05 17:41	30°℞♐	
desc. node	9208 Jul 13 10:41	27°♐54'19	
direct	9208 Jul 31 05:33	25°♐54'19	
	9208 Aug 28 03:16	0°♑	
	9208 Nov 04 22:16	0°♒	
	9208 Dec 25 13:51	0°♓	
	9209 Feb 08 17:58	0°♈	
	9209 Mar 22 12:37	0°♉	
	9209 May 01 01:01	0°♊	
evening set	9209 May 03 04:03	1°♊39'00	
	9209 Jun 08 06:24	0°♋	
asc. node	9209 Jun 24 14:23	12°♋56'35	
conjunction	9209 Jul 10 22:14	25°♋52'35	0°11'49
minimum elong	9209 Jul 10 20:56	25°♋50'01	0°11'32
behind sun begin	9209 Jul 09 23:06	25°♋06'53	
behind sun end	9209 Jul 11 18:45	26°♋33'09	
	9209 Jul 16 03:31	0°♌	
	9209 Aug 23 13:53	0°♍	
max. Earth dist.	9209 Aug 25 08:12	1°♍21'19	2.37721 AU
morning rise	9209 Sep 20 20:49	21°♍27'44	
	9209 Oct 02 08:56	0°♎	
	9209 Nov 13 05:17	0°♏	
	9209 Dec 27 17:49	0°♐	
	9210 Feb 13 23:05	0°♑	
	9210 Apr 10 21:42	0°♒	
desc. node	9210 May 31 09:40	17°♒00'13	
retrograde	9210 Jun 14 14:44	18°♒09'20	
opposition	9210 Jul 24 07:05	8°♒55'07	-1°50'26
greatest brilliancy	9210 Jul 24 11:01	8°♒51'16	-1.3m
min. Earth dist.	9210 Jul 27 07:40	7°♒44'00	0.66634 AU
	9210 Aug 21 15:11	30°℞♑	
direct	9210 Sep 03 21:23	28°♑52'19	
	9210 Sep 17 19:50	0°♒	
	9210 Dec 01 01:10	0°♓	
	9211 Jan 18 09:59	0°♈	
	9211 Mar 02 01:38	0°♉	
	9211 Apr 10 18:52	0°♊	
asc. node	9211 May 12 14:30	24°♊54'20	
	9211 May 19 01:13	0°♋	
	9211 Jun 26 00:30	0°♌	
evening set	9211 Jul 16 21:01	16°♌17'50	
	9211 Aug 03 16:02	0°♍	
	9211 Sep 12 18:28	0°♎	

conjunction	9211 Sep 20 12:37	5°♎38'41	1°05'20
minimum elong	9211 Sep 20 11:38	5°♎36'54	1°05'21
	9211 Oct 24 20:40	0°♏	
max. Earth dist.	9211 Oct 30 16:48	4°♏02'28	2.51480 AU
morning rise	9211 Nov 16 12:49	15°♏32'17	
	9211 Dec 08 04:38	0°♐	
	9212 Jan 23 21:20	0°♑	
	9212 Mar 13 10:22	0°♒	
desc. node	9212 Apr 17 06:34	19°♒32'24	
	9212 May 07 14:33	0°♓	
retrograde	9212 Jul 23 13:43	23°♓43'52	
opposition	9212 Aug 30 00:35	15°♓30'20	-4°20'45
greatest brilliancy	9212 Aug 30 23:59	15°♓08'15	-1.7m
min. Earth dist.	9212 Sep 05 17:18	12°♓59'07	0.58842 AU
direct	9212 Oct 09 14:46	5°♓46'09	
	9212 Dec 20 02:24	0°♈	
	9213 Feb 05 07:10	0°♉	
	9213 Mar 18 11:50	0°♊	
asc. node	9213 Mar 29 16:09	8°♊30'06	
	9213 Apr 26 11:45	0°♋	
	9213 Jun 04 01:06	0°♌	
	9213 Jul 13 07:43	0°♍	
	9213 Aug 23 02:33	0°♎	
evening set	9213 Sep 16 20:20	17°♎32'40	
	9213 Oct 04 20:01	0°♏	
conjunction	9213 Nov 08 19:29	23°♏34'37	0°53'46
minimum elong	9213 Nov 08 20:50	23°♏36'51	0°54'00
	9213 Nov 18 12:54	0°♐	
max. Earth dist.	9213 Nov 28 14:59	6°♐36'20	2.62177 AU
morning rise	9213 Dec 26 16:27	24°♐43'38	
	9214 Jan 03 22:50	0°♑	
	9214 Feb 20 17:39	0°♒	
desc. node	9214 Mar 05 01:37	7°♒36'42	
	9214 Apr 10 22:18	0°♓	
	9214 Jun 01 17:57	0°♈	
	9214 Aug 02 12:17	0°♉	
retrograde	9214 Sep 15 11:14	9°♉35'48	
opposition	9214 Oct 18 19:10	3°♉09'33	-5°39'49
greatest brilliancy	9214 Oct 20 14:48	2°♉33'29	-2.4m
min. Earth dist.	9214 Oct 27 12:20	0°♉17'49	0.45695 AU
	9214 Oct 28 10:54	30°℞♈	
direct	9214 Nov 24 05:01	25°♈17'50	
	9214 Dec 21 00:06	0°♉	
asc. node	9215 Feb 14 17:10	28°♉59'22	
	9215 Feb 16 06:27	0°♊	
	9215 Mar 31 08:19	0°♋	
	9215 May 11 03:36	0°♌	
	9215 Jun 21 03:41	0°♍	
	9215 Aug 02 10:12	0°♎	
	9215 Sep 15 09:30	0°♏	
	9215 Oct 30 23:35	0°♐	
evening set	9215 Nov 01 04:51	0°♐47'25	
	9215 Dec 16 17:35	0°♑	
conjunction	9215 Dec 17 21:38	0°♑44'38	0°17'42
minimum elong	9215 Dec 17 22:12	0°♑45'31	0°17'59
max. Earth dist.	9215 Dec 22 09:26	3°♑36'07	2.67582 AU
desc. node	9216 Jan 20 21:44	22°♑19'48	
morning rise	9216 Jan 31 00:19	28°♑44'05	
	9216 Feb 02 00:16	0°♒	
	9216 Mar 20 07:09	0°♓	
	9216 May 06 09:02	0°♈	
	9216 Jun 22 09:32	0°♉	
	9216 Aug 09 03:08	0°♊	
	9216 Sep 29 20:44	0°♋	
retrograde	9216 Dec 02 05:37	20°♋11'58	
opposition	9217 Jan 01 01:53	15°♋13'04	-0°03'22
greatest brilliancy	9217 Jan 01 02:00	15°♋12'59	-3.1m
min. Earth dist.	9216 Dec 31 13:31	15°♋21'15	0.36510 AU
asc. node	9217 Jan 01 19:02	15°♋01'42	
direct	9217 Jan 30 11:43	10°♋20'17	
	9217 Apr 01 19:06	0°♌	
	9217 May 22 13:06	0°♍	
	9217 Jul 08 12:59	0°♎	
	9217 Aug 24 09:27	0°♏	
	9217 Oct 10 18:48	0°♐	
	9217 Nov 27 11:49	0°♑	
evening set	9217 Dec 07 19:06	6°♑29'19	
desc. node	9217 Dec 07 19:43	6°♑30'17	
max. Earth dist.	9218 Jan 12 17:46	29°♑14'38	2.67452 AU
	9218 Jan 13 22:15	0°♒	
conjunction	9218 Jan 21 07:17	4°♒42'21	-0°22'59
minimum elong	9218 Jan 21 06:37	4°♒41'18	0°22'44
	9218 Mar 01 11:55	0°♓	
morning rise	9218 Mar 05 24:00	2°♓56'31	
	9218 Apr 15 19:39	0°♈	
	9218 May 29 18:01	0°♉	
	9218 Jul 11 08:46	0°♊	
	9218 Aug 21 23:12	0°♋	
	9218 Oct 02 09:26	0°♌	
	9218 Nov 14 18:57	0°♍	
asc. node	9218 Nov 19 18:37	3°♍13'18	
	9219 Jan 09 15:50	0°♎	
retrograde	9219 Feb 07 18:54	5°♎39'01	
min. Earth dist.	9219 Mar 07 07:14	0°♎23'34	0.45730 AU
	9219 Mar 08 11:03	30°℞♍	
greatest brilliancy	9219 Mar 14 02:26	28°♍01'48	-2.4m
opposition	9219 Mar 15 18:23	27°♍26'43	5°33'31
direct	9219 Apr 17 10:43	20°♍47'02	
	9219 May 29 04:10	0°♎	
	9219 Jul 29 11:44	0°♏	
	9219 Sep 19 15:25	0°♐	
desc. node	9219 Oct 25 19:39	21°♐40'20	
	9219 Nov 08 11:56	0°♑	
	9219 Dec 26 18:12	0°♒	
evening set	9220 Jan 12 15:13	10°♒44'58	
max. Earth dist.	9220 Feb 05 13:06	26°♒14'51	2.61884 AU
	9220 Feb 11 06:09	0°♓	
conjunction	9220 Feb 26 23:18	10°♓25'48	-0°56'31
minimum elong	9220 Feb 26 22:10	10°♓23'55	0°56'24
	9220 Mar 26 19:13	0°♈	
morning rise	9220 Apr 13 22:55	12°♈37'35	
	9220 May 08 09:27	0°♉	
	9220 Jun 18 06:40	0°♊	
	9220 Jul 27 21:23	0°♋	
	9220 Sep 04 21:59	0°♌	
asc. node	9220 Oct 06 14:33	24°♌11'03	
	9220 Oct 14 08:12	0°♍	
	9220 Nov 24 16:22	0°♎	
	9221 Jan 10 07:27	0°♏	
retrograde	9221 Mar 23 13:51	25°♏32'09	
min. Earth dist.	9221 Apr 26 03:01	18°♏03'14	0.58764 AU
greatest brilliancy	9221 May 01 05:40	16°♏02'57	-1.7m
opposition	9221 May 02 02:51	15°♏42'11	4°18'22
direct	9221 Jun 08 06:37	7°♏13'12	
	9221 Aug 22 00:58	0°♐	
desc. node	9221 Sep 11 21:54	10°♐31'39	
	9221 Oct 17 08:06	0°♑	
	9221 Dec 06 17:54	0°♒	
	9222 Jan 22 20:09	0°♓	
evening set	9222 Feb 19 14:45	18°♓35'24	

max. Earth dist.	9222 Mar 06 16:17	28°♓57'33	2.51286 AU
	9222 Mar 08 04:11	0°♈	
conjunction	9222 Apr 10 21:57	24°♈00'57	-1°06'34
minimum elong	9222 Apr 10 22:34	24°♈02'06	1°06'40
	9222 Apr 19 02:34	0°♉	
	9222 May 29 03:07	0°♊	
morning rise	9222 Jun 07 06:15	7°♊00'05	
	9222 Jul 06 21:00	0°♋	
	9222 Aug 14 02:42	0°♌	
asc. node	9222 Aug 24 10:33	8°♌04'54	
	9222 Sep 21 17:20	0°♍	
	9222 Oct 31 16:31	0°♎	
	9222 Dec 13 06:03	0°♏	
	9223 Jan 29 18:54	0°♐	
	9223 Apr 07 12:22	0°♑	
retrograde	9223 Apr 28 15:32	2°♑38'12	
	9223 May 18 12:10	30°℞♐	
min. Earth dist.	9223 Jun 05 22:58	23°♐35'19	0.66578 AU
opposition	9223 Jun 08 05:02	22°♐41'27	1°48'36
greatest brilliancy	9223 Jun 08 01:53	22°♐44'35	-1.4m
direct	9223 Jul 18 06:52	13°♐13'00	
desc. node	9223 Jul 31 00:33	14°♐08'29	
	9223 Sep 18 16:27	0°♑	
	9223 Nov 15 08:57	0°♒	
	9224 Jan 03 09:49	0°♓	
	9224 Feb 17 03:58	0°♈	
	9224 Mar 29 21:41	0°♉	
evening set	9224 Apr 08 18:49	7°♉21'29	
max. Earth dist.	9224 May 05 20:18	27°♉56'46	2.38105 AU
	9224 May 08 12:10	0°♊	
conjunction	9224 Jun 10 16:12	25°♊55'58	-0°21'51
minimum elong	9224 Jun 10 18:19	26°♊00'08	0°22'06
	9224 Jun 15 19:51	0°♋	
asc. node	9224 Jul 11 08:20	20°♋11'50	
	9224 Jul 23 17:56	0°♌	
morning rise	9224 Aug 22 16:43	23°♌27'35	
	9224 Aug 31 03:45	0°♍	
	9224 Oct 09 21:24	0°♎	
	9224 Nov 20 17:45	0°♏	
	9225 Jan 04 13:42	0°♐	
	9225 Feb 23 03:52	0°♑	
	9225 Apr 29 05:47	0°♒	
retrograde	9225 May 31 19:07	5°♒33'35	
desc. node	9225 Jun 17 00:23	3°♒52'07	
	9225 Jun 30 13:43	30°℞♑	
opposition	9225 Jul 10 23:25	26°♑02'59	-0°49'26
greatest brilliancy	9225 Jul 11 00:08	26°♑02'16	-1.3m
min. Earth dist.	9225 Jul 12 12:24	25°♑26'28	0.67914 AU
direct	9225 Aug 21 10:52	16°♑04'32	
	9225 Oct 15 09:14	0°♒	
	9225 Dec 11 05:29	0°♓	
	9226 Jan 26 20:00	0°♈	
	9226 Mar 10 00:00	0°♉	
	9226 Apr 18 13:53	0°♊	
	9226 May 26 18:55	0°♋	
asc. node	9226 May 29 06:05	1°♋57'11	
evening set	9226 Jun 16 23:48	16°♋48'15	
	9226 Jul 03 16:25	0°♌	
	9226 Aug 11 04:56	0°♍	
conjunction	9226 Aug 26 06:53	11°♍29'02	0°54'15
minimum elong	9226 Aug 26 03:55	11°♍23'26	0°54'06
	9226 Sep 20 03:18	0°♎	
max. Earth dist.	9226 Oct 14 06:17	17°♎27'17	2.46102 AU
morning rise	9226 Oct 28 01:58	27°♎13'10	
	9226 Nov 01 01:32	0°♏	
	9226 Dec 15 08:43	0°♐	
	9227 Jan 31 09:39	0°♑	
	9227 Mar 23 09:08	0°♒	
desc. node	9227 May 04 21:21	21°♒43'04	
	9227 May 24 19:20	0°♓	
retrograde	9227 Jul 07 22:41	9°♓21'26	
opposition	9227 Aug 15 11:21	0°♓39'59	-3°24'45
greatest brilliancy	9227 Aug 16 01:27	0°♓26'25	-1.5m
	9227 Aug 17 04:51	30°℞♒	
min. Earth dist.	9227 Aug 20 18:32	28°♒37'44	0.62664 AU
direct	9227 Sep 25 17:41	20°♒41'41	
	9227 Nov 06 16:30	0°♓	
	9228 Jan 02 13:37	0°♈	
	9228 Feb 16 00:28	0°♉	
	9228 Mar 27 08:44	0°♊	
asc. node	9228 Apr 15 07:21	14°♊38'13	
	9228 May 04 22:37	0°♋	
	9228 Jun 12 04:05	0°♌	
	9228 Jul 21 02:49	0°♍	
evening set	9228 Aug 26 01:17	26°♍43'19	
	9228 Aug 30 13:30	0°♎	
	9228 Oct 11 23:17	0°♏	
conjunction	9228 Oct 22 04:25	7°♏00'37	1°02'58
minimum elong	9228 Oct 22 05:27	7°♏02'24	1°03'08
max. Earth dist.	9228 Nov 18 06:42	25°♏14'56	2.58596 AU
	9228 Nov 25 11:00	0°♐	
morning rise	9228 Dec 11 18:27	10°♐40'40	
	9229 Jan 10 21:00	0°♑	
	9229 Feb 28 02:40	0°♒	
desc. node	9229 Mar 21 16:58	13°♒01'13	
	9229 Apr 19 18:01	0°♓	
	9229 Jun 15 08:59	0°♈	
retrograde	9229 Aug 22 19:25	19°♈52'55	
opposition	9229 Sep 27 02:00	12°♈37'05	-5°29'04
greatest brilliancy	9229 Sep 28 17:01	12°♈02'25	-2.0m
min. Earth dist.	9229 Oct 05 13:29	9°♈37'24	0.51268 AU
direct	9229 Nov 04 16:29	3°♈43'49	
	9230 Jan 15 20:47	0°♉	
	9230 Mar 01 20:33	0°♊	
asc. node	9230 Mar 03 10:26	1°♊08'00	
	9230 Apr 11 08:36	0°♋	
	9230 May 20 20:29	0°♌	
	9230 Jun 29 21:58	0°♍	
	9230 Aug 10 10:10	0°♎	
	9230 Sep 22 18:40	0°♏	
evening set	9230 Oct 15 22:41	15°♏31'47	
	9230 Nov 06 22:21	0°♐	
conjunction	9230 Dec 03 11:35	17°♐12'04	0°32'54
minimum elong	9230 Dec 03 12:35	17°♐13'41	0°33'12
max. Earth dist.	9230 Dec 13 11:11	23°♐36'29	2.66121 AU
	9230 Dec 23 11:20	0°♑	
morning rise	9231 Jan 17 14:39	15°♑57'50	
desc. node	9231 Feb 06 12:04	28°♑31'21	
	9231 Feb 08 20:22	0°♒	
	9231 Mar 28 16:08	0°♓	
	9231 May 15 23:35	0°♈	
	9231 Jul 04 14:37	0°♉	
	9231 Aug 28 04:32	0°♊	
retrograde	9231 Oct 31 02:12	19°♊10'40	
opposition	9231 Nov 30 10:41	14°♊02'58	-3°33'30
greatest brilliancy	9231 Dec 01 06:45	13°♊48'56	-2.9m
min. Earth dist.	9231 Dec 05 11:45	12°♊38'43	0.38304 AU
direct	9232 Jan 01 00:07	8°♊20'49	
asc. node	9232 Jan 19 11:31	10°♊38'59	

	9232 Mar 04	04:07	0°♋	
	9232 Apr 20	19:09	0°♌	
	9232 Jun 03	23:13	0°♍	
	9232 Jul 18	05:54	0°♎	
	9232 Sep 01	14:04	0°♏	
	9232 Oct 18	02:02	0°♐	
evening set	9232 Nov 23	15:36	23°♐14'43	
	9232 Dec 04	07:37	0°♑	
desc. node	9232 Dec 24	08:52	12°♑41'52	
max. Earth dist.	9233 Jan 04	05:10	19°♑34'20	2.68159 AU
conjunction	9233 Jan 07	15:47	21°♑45'26	-0°07'32
minimum elong	9233 Jan 07	15:34	21°♑45'05	0°07'15
behind sun begin	9233 Jan 06	22:56	21°♑18'41	
behind sun end	9233 Jan 08	08:12	22°♑11'29	
	9233 Jan 20	14:57	0°♒	
morning rise	9233 Feb 20	03:48	19°♒31'42	
	9233 Mar 08	09:27	0°♓	
	9233 Apr 23	05:55	0°♈	
	9233 Jun 07	01:21	0°♉	
	9233 Jul 20	21:59	0°♊	
	9233 Sep 02	06:08	0°♋	
	9233 Oct 16	14:08	0°♌	
asc. node	9233 Dec 06	10:31	29°♌13'23	
	9233 Dec 08	04:13	0°♍	
retrograde	9234 Jan 16	04:28	9°♍36'11	
min. Earth dist.	9234 Feb 11	01:44	5°♍07'27	0.40587 AU
greatest brilliancy	9234 Feb 17	07:19	3°♍11'31	-2.7m
opposition	9234 Feb 18	15:22	2°♍46'26	4°40'26
	9234 Feb 28	02:45	30°℞♌	
direct	9234 Mar 21	07:15	27°♌04'35	
	9234 Apr 12	03:38	0°♍	
	9234 Jun 18	15:05	0°♎	
	9234 Aug 09	08:07	0°♏	
	9234 Sep 27	22:29	0°♐	
desc. node	9234 Nov 11	08:49	27°♐18'00	
	9234 Nov 15	17:26	0°♑	
evening set	9234 Dec 29	14:34	27°♑29'13	
	9235 Jan 02	13:39	0°♒	
max. Earth dist.	9235 Jan 26	20:46	15°♒33'29	2.64693 AU
conjunction	9235 Feb 12	05:49	26°♒11'54	-0°45'12
minimum elong	9235 Feb 12	04:42	26°♒10'06	0°45'01
	9235 Feb 18	00:59	0°♓	
morning rise	9235 Mar 29	08:59	26°♓16'56	
	9235 Apr 03	19:55	0°♈	
	9235 May 16	20:38	0°♉	
	9235 Jun 27	06:45	0°♊	
	9235 Aug 06	11:06	0°♋	
	9235 Sep 15	01:38	0°♌	
asc. node	9235 Oct 24	08:55	29°♌21'36	
	9235 Oct 25	05:55	0°♍	
	9235 Dec 07	04:39	0°♎	
	9236 Jan 30	06:51	0°♏	
retrograde	9236 Mar 07	17:19	8°♏34'13	
min. Earth dist.	9236 Apr 08	00:04	1°♏53'32	0.54106 AU
	9236 Apr 12	23:01	30°℞♎	
greatest brilliancy	9236 Apr 14	00:50	29°♎35'12	-1.9m
opposition	9236 Apr 15	07:36	29°♎05'43	5°05'35
direct	9236 May 20	21:19	21°♎12'02	
	9236 Jul 01	15:07	0°♏	
	9236 Sep 02	21:47	0°♐	
desc. node	9236 Sep 28	10:34	14°♐12'01	
	9236 Oct 25	15:41	0°♑	
	9236 Dec 13	23:45	0°♒	
	9237 Jan 29	18:31	0°♓	
evening set	9237 Feb 03	17:15	3°♓16'04	
max. Earth dist.	9237 Feb 21	17:19	15°♓19'04	2.55963 AU
	9237 Mar 15	03:27	0°♈	
conjunction	9237 Mar 23	09:51	5°♈46'00	-1°07'05
minimum elong	9237 Mar 23	09:25	5°♈45'15	1°07'07
	9237 Apr 26	07:08	0°♉	
morning rise	9237 May 14	11:40	13°♉23'15	
	9237 Jun 05	14:38	0°♊	
	9237 Jul 14	15:25	0°♋	
	9237 Aug 22	02:46	0°♌	
asc. node	9237 Sep 10	04:27	14°♌49'13	
	9237 Sep 29	22:12	0°♍	
	9237 Nov 09	04:17	0°♎	
	9237 Dec 22	12:07	0°♏	
	9238 Feb 11	04:50	0°♐	
retrograde	9238 Apr 15	03:13	19°♐14'20	
min. Earth dist.	9238 May 21	18:16	10°♐44'01	0.64274 AU
opposition	9238 May 25	12:07	9°♐14'39	2°48'46
greatest brilliancy	9238 May 25	03:37	9°♐23'06	-1.5m
direct	9238 Jul 03	15:20	0°♐05'11	
desc. node	9238 Aug 16	12:58	9°♐20'35	
	9238 Oct 01	05:59	0°♑	
	9238 Nov 23	19:45	0°♒	
	9239 Jan 10	20:59	0°♓	
	9239 Feb 24	09:24	0°♈	
evening set	9239 Mar 19	17:35	16°♈32'59	
max. Earth dist.	9239 Apr 03	14:47	27°♈22'58	2.43091 AU
	9239 Apr 07	04:02	0°♉	
conjunction	9239 May 15	15:45	29°♉02'33	-0°47'53
minimum elong	9239 May 15	18:25	29°♉07'41	0°48'06
	9239 May 16	21:37	0°♊	
	9239 Jun 24	08:29	0°♋	
morning rise	9239 Jul 22	23:35	22°♋36'09	
asc. node	9239 Jul 29	00:23	27°♋21'52	
	9239 Aug 01	08:36	0°♌	
	9239 Sep 08	19:03	0°♍	
	9239 Oct 18	12:59	0°♎	
	9239 Nov 29	12:05	0°♏	
	9240 Jan 13	21:45	0°♐	
	9240 Mar 05	23:57	0°♑	
retrograde	9240 May 18	10:31	23°♑06'58	
opposition	9240 Jun 27	22:05	13°♑23'26	0°11'42
greatest brilliancy	9240 Jun 27	22:13	13°♑23'17	-1.3m
min. Earth dist.	9240 Jun 27	23:16	13°♑22'15	0.68189 AU
desc. node	9240 Jul 03	13:46	11°♑10'19	
direct	9240 Aug 08	00:49	3°♑33'45	
	9240 Oct 28	20:19	0°♒	
	9240 Dec 20	02:43	0°♓	
	9241 Feb 03	17:57	0°♈	
	9241 Mar 17	16:07	0°♉	
	9241 Apr 26	05:10	0°♊	
evening set	9241 May 18	10:16	17°♊21'41	
	9241 Jun 03	10:20	0°♋	
asc. node	9241 Jun 14	23:37	9°♋09'38	
	9241 Jul 11	07:01	0°♌	
conjunction	9241 Jul 28	06:15	13°♌20'29	0°30'10
minimum elong	9241 Jul 28	03:15	13°♌14'36	0°29'54
	9241 Aug 18	17:11	0°♍	
max. Earth dist.	9241 Sep 19	12:57	24°♍05'52	2.40463 AU
	9241 Sep 27	12:16	0°♎	
morning rise	9241 Oct 05	11:05	5°♎49'52	
	9241 Nov 08	07:45	0°♏	
	9241 Dec 22	16:25	0°♐	
	9242 Feb 08	07:24	0°♑	
	9242 Apr 02	17:15	0°♒	

desc. node	9242 May 21 11:43	20°♒37'42	
retrograde	9242 Jun 22 19:31	26°♒01'13	
opposition	9242 Aug 01 03:49	16°♒57'28	-2°25'41
greatest brilliancy	9242 Aug 01 10:44	16°♒50'44	-1.4m
min. Earth dist.	9242 Aug 04 23:55	15°♒27'46	0.65501 AU
direct	9242 Sep 11 17:42	6°♒54'34	
	9242 Nov 23 07:11	0°♓	
	9243 Jan 12 13:46	0°♈	
	9243 Feb 24 18:08	0°♉	
	9243 Apr 05 16:08	0°♊	
asc. node	9243 May 02 23:55	21°♊18'10	
	9243 May 14 00:54	0°♋	
	9243 Jun 21 01:51	0°♌	
	9243 Jul 29 19:02	0°♍	
evening set	9243 Aug 01 15:48	2°♍10'54	
	9243 Sep 07 23:18	0°♎	
conjunction	9243 Oct 03 03:48	18°♎06'39	1°06'44
minimum elong	9243 Oct 03 03:49	18°♎06'41	1°06'49
	9243 Oct 20 02:45	0°♏	
max. Earth dist.	9243 Nov 07 10:39	12°♏35'08	2.54189 AU
morning rise	9243 Nov 26 13:07	25°♏25'48	
	9243 Dec 03 10:36	0°♐	
	9244 Jan 18 22:57	0°♑	
	9244 Mar 07 21:11	0°♒	
desc. node	9244 Apr 07 07:22	17°♒39'23	
	9244 Apr 29 20:11	0°♓	
	9244 Jul 10 08:26	0°♈	
retrograde	9244 Aug 02 18:52	2°♈59'02	
	9244 Aug 24 15:07	30°℞♓	
opposition	9244 Sep 08 13:37	25°♓03'39	-4°49'41
greatest brilliancy	9244 Sep 09 18:51	24°♓36'31	-1.8m
min. Earth dist.	9244 Sep 16 00:03	22°♓18'44	0.56352 AU
direct	9244 Oct 18 14:55	15°♓32'42	
	9244 Dec 09 15:05	0°♈	
	9245 Jan 29 10:08	0°♉	
	9245 Mar 12 11:54	0°♊	
asc. node	9245 Mar 20 00:53	5°♊38'55	
	9245 Apr 20 21:15	0°♋	
	9245 May 29 16:35	0°♌	
	9245 Jul 08 04:12	0°♍	
	9245 Aug 18 03:46	0°♎	
evening set	9245 Sep 27 23:27	28°♎34'57	
	9245 Sep 30 01:09	0°♏	
	9245 Nov 13 20:43	0°♐	
conjunction	9245 Nov 18 02:43	2°♐47'13	0°46'47
minimum elong	9245 Nov 18 04:02	2°♐49'21	0°47'02
max. Earth dist.	9245 Dec 04 06:25	13°♐18'01	2.63807 AU
	9245 Dec 30 06:30	0°♑	
morning rise	9246 Jan 03 20:04	2°♑54'24	
	9246 Feb 15 20:26	0°♒	
desc. node	9246 Feb 23 03:01	4°♒32'02	
	9246 Apr 05 10:35	0°♓	
	9246 May 25 15:12	0°♈	
	9246 Jul 19 11:24	0°♉	
retrograde	9246 Sep 30 15:55	22°♉48'55	
opposition	9246 Nov 01 18:53	16°♉52'27	-5°20'38
greatest brilliancy	9246 Nov 03 11:22	16°♉20'40	-2.5m
min. Earth dist.	9246 Nov 09 21:34	14°♉20'31	0.42722 AU
direct	9246 Dec 06 15:35	9°♉44'17	
	9247 Feb 04 18:47	0°♊	
asc. node	9247 Feb 05 03:13	0°♊11'59	
	9247 Mar 23 09:06	0°♋	
	9247 May 04 11:30	0°♌	
	9247 Jun 15 05:24	0°♍	
	9247 Jul 28 00:32	0°♎	
	9247 Sep 10 08:49	0°♏	
	9247 Oct 26 05:13	0°♐	
evening set	9247 Nov 09 22:59	9°♐29'09	
	9247 Dec 12 02:21	0°♑	
conjunction	9247 Dec 25 21:48	8°♑46'21	0°08'27
minimum elong	9247 Dec 25 22:05	8°♑46'47	0°08'45
behind sun begin	9247 Dec 25 06:17	8°♑21'44	
behind sun end	9247 Dec 26 13:52	9°♑11'49	
max. Earth dist.	9247 Dec 27 11:22	9°♑45'57	2.68020 AU
desc. node	9248 Jan 10 23:37	18°♑58'23	
	9248 Jan 28 08:35	0°♒	
morning rise	9248 Feb 07 16:17	6°♒33'28	
	9248 Mar 15 10:12	0°♓	
	9248 Apr 30 23:43	0°♈	
	9248 Jun 16 01:16	0°♉	
	9248 Jul 31 22:43	0°♊	
	9248 Sep 16 22:23	0°♋	
	9248 Nov 11 07:42	0°♌	
retrograde	9248 Dec 19 16:17	8°♌55'04	
asc. node	9248 Dec 23 03:56	8°♌50'03	
min. Earth dist.	9249 Jan 15 18:31	4°♌31'36	0.37114 AU
opposition	9249 Jan 19 12:46	3°♌29'24	2°04'47
greatest brilliancy	9249 Jan 19 03:54	3°♌35'31	-3.0m
	9249 Feb 02 22:03	30°℞♋	
direct	9249 Feb 17 20:05	28°♋32'29	
	9249 Mar 04 19:14	0°♌	
	9249 May 12 20:05	0°♍	
	9249 Jul 01 15:42	0°♎	
	9249 Aug 18 17:01	0°♏	
	9249 Oct 05 17:25	0°♐	
	9249 Nov 22 18:11	0°♑	
desc. node	9249 Nov 27 21:58	3°♑13'54	
evening set	9249 Dec 15 17:28	14°♑25'43	
	9250 Jan 09 07:40	0°♒	
max. Earth dist.	9250 Jan 17 19:37	5°♒25'12	2.66699 AU
conjunction	9250 Jan 29 03:42	12°♒41'16	-0°31'38
minimum elong	9250 Jan 29 02:50	12°♒39'53	0°31'23
	9250 Feb 24 20:27	0°♓	
morning rise	9250 Mar 14 04:46	11°♓24'59	
	9250 Apr 10 23:15	0°♈	
	9250 May 24 13:13	0°♉	
	9250 Jul 05 16:08	0°♊	
	9250 Aug 15 15:48	0°♋	
	9250 Sep 25 05:12	0°♌	
	9250 Nov 05 21:40	0°♍	
asc. node	9250 Nov 10 01:14	2°♍51'55	
	9250 Dec 23 03:43	0°♎	
retrograde	9251 Feb 18 23:21	18°♎53'19	
min. Earth dist.	9251 Mar 19 20:16	13°♎06'34	0.48816 AU
greatest brilliancy	9251 Mar 26 11:51	10°♎41'26	-2.2m
opposition	9251 Mar 28 02:24	10°♎06'09	5°34'05
direct	9251 Apr 30 20:13	2°♎57'06	
	9251 Jul 21 04:00	0°♏	
	9251 Sep 13 17:25	0°♐	
desc. node	9251 Oct 15 23:03	18°♐54'56	
	9251 Nov 03 10:03	0°♑	
	9251 Dec 22 00:37	0°♒	
evening set	9252 Jan 20 19:15	19°♒00'43	
	9252 Feb 06 15:11	0°♓	
max. Earth dist.	9252 Feb 11 10:44	3°♓10'43	2.60005 AU
conjunction	9252 Mar 06 18:23	19°♓28'44	-1°01'40
minimum elong	9252 Mar 06 17:23	19°♓27'03	1°01'36
	9252 Mar 22 03:06	0°♈	
morning rise	9252 Apr 24 04:47	23°♈15'06	

	9252 May 03 13:57	0°♉	
	9252 Jun 13 06:10	0°♊	
	9252 Jul 22 15:28	0°♋	
	9252 Aug 30 10:18	0°♌	
asc. node	9252 Sep 26 22:54	21°♌11'11	
	9252 Oct 08 13:08	0°♍	
	9252 Nov 18 07:41	0°♎	
	9253 Jan 02 03:44	0°♏	
	9253 Mar 03 15:58	0°♐	
retrograde	9253 Apr 01 01:07	4°♐53'06	
	9253 Apr 27 17:59	30°℞♏	
min. Earth dist.	9253 May 05 18:30	27°♏00'35	0.61000 AU
opposition	9253 May 10 23:40	24°♏56'59	3°46'51
greatest brilliancy	9253 May 10 07:35	25°♏12'52	-1.6m
direct	9253 Jun 17 22:43	16°♏11'39	
	9253 Aug 12 02:52	0°♐	
desc. node	9253 Sep 02 01:25	9°♐29'35	
	9253 Oct 11 06:57	0°♑	
	9253 Dec 01 15:21	0°♒	
	9254 Jan 18 01:27	0°♓	
evening set	9254 Mar 01 06:14	28°♓27'38	
	9254 Mar 03 11:22	0°♈	
max. Earth dist.	9254 Mar 15 09:24	8°♈21'58	2.48471 AU
	9254 Apr 14 09:01	0°♉	
conjunction	9254 Apr 22 11:45	5°♉59'35	-1°02'42
minimum elong	9254 Apr 22 13:10	6°♉02'13	1°02'51
	9254 May 24 07:26	0°♊	
morning rise	9254 Jun 22 12:12	22°♊36'15	
	9254 Jul 01 23:00	0°♋	
	9254 Aug 09 02:31	0°♌	
asc. node	9254 Aug 14 19:31	4°♌28'57	
greatest brilliancy	9254 Aug 28 16:02	15°♌19'09	1.2m
	9254 Sep 16 14:49	0°♍	
	9254 Oct 26 10:35	0°♎	
	9254 Dec 07 15:52	0°♏	
	9255 Jan 23 01:59	0°♐	
	9255 Mar 21 18:32	0°♑	
retrograde	9255 May 06 05:43	10°♑32'18	
min. Earth dist.	9255 Jun 14 09:47	1°♑13'25	0.67429 AU
opposition	9255 Jun 15 20:13	0°♑39'10	1°12'50
greatest brilliancy	9255 Jun 15 19:00	0°♑40'23	-1.3m
	9255 Jun 17 11:41	30°℞♐	
desc. node	9255 Jul 21 02:54	21°♐12'05	
direct	9255 Jul 26 08:51	21°♐01'59	
	9255 Sep 07 12:30	0°♑	
	9255 Nov 09 05:41	0°♒	
	9255 Dec 29 05:28	0°♓	
	9256 Feb 12 06:41	0°♈	
	9256 Mar 25 02:17	0°♉	
evening set	9256 Apr 22 01:36	21°♉03'40	
	9256 May 03 16:23	0°♊	
	9256 Jun 10 23:13	0°♋	
conjunction	9256 Jun 27 09:57	13°♋01'36	-0°03'08
minimum elong	9256 Jun 27 10:18	13°♋02'17	0°03'25
behind sun begin	9256 Jun 26 04:31	12°♋03'18	
behind sun end	9256 Jun 28 16:04	14°♋01'16	
max. Earth dist.	9256 Jun 27 01:42	12°♋45'16	2.36532 AU
asc. node	9256 Jul 01 15:54	16°♋23'34	
	9256 Jul 18 20:39	0°♌	
	9256 Aug 26 06:02	0°♍	
morning rise	9256 Sep 08 14:40	10°♍13'52	
	9256 Oct 04 23:20	0°♎	
	9256 Nov 15 17:57	0°♏	
	9256 Dec 30 07:14	0°♐	
	9257 Feb 16 21:40	0°♑	
	9257 Apr 16 04:08	0°♒	
desc. node	9257 Jun 07 02:01	13°♒13'48	
retrograde	9257 Jun 08 14:49	13°♒14'40	
opposition	9257 Jul 18 13:29	3°♒52'35	-1°25'14
greatest brilliancy	9257 Jul 18 15:42	3°♒50'25	-1.3m
min. Earth dist.	9257 Jul 20 22:04	2°♒57'00	0.67340 AU
	9257 Jul 28 16:14	30°℞♑	
direct	9257 Aug 29 03:51	23°♑51'11	
	9257 Oct 02 12:00	0°♒	
	9257 Dec 04 19:23	0°♓	
	9258 Jan 21 10:14	0°♈	
	9258 Mar 04 22:06	0°♉	
	9258 Apr 13 14:34	0°♊	
asc. node	9258 May 19 15:23	28°♊14'46	
	9258 May 21 20:36	0°♋	
greatest brilliancy	9258 Jun 18 23:59	22°♋16'54	1.2m
	9258 Jun 28 18:45	0°♌	
evening set	9258 Jul 03 22:52	4°♌04'08	
	9258 Aug 06 08:01	0°♍	
conjunction	9258 Sep 10 00:16	26°♍06'00	1°02'04
minimum elong	9258 Sep 09 22:23	26°♍02'31	1°02'01
	9258 Sep 15 07:29	0°♎	
max. Earth dist.	9258 Oct 24 04:19	27°♎50'37	2.49140 AU
	9258 Oct 27 06:27	0°♏	
morning rise	9258 Nov 08 10:59	8°♏25'36	
	9258 Dec 10 12:26	0°♐	
	9259 Jan 26 06:36	0°♑	
	9259 Mar 17 06:35	0°♒	
desc. node	9259 Apr 24 23:09	21°♒02'24	
	9259 May 13 12:22	0°♓	
retrograde	9259 Jul 17 04:25	17°♓54'29	
opposition	9259 Aug 24 04:06	9°♓27'37	-3°57'41
greatest brilliancy	9259 Aug 24 23:13	9°♓09'26	-1.6m
min. Earth dist.	9259 Aug 30 06:22	7°♓08'40	0.60671 AU
	9259 Sep 26 08:08	30°℞♒	
direct	9259 Oct 04 03:14	29°♒35'54	
	9259 Oct 12 02:48	0°♓	
	9259 Dec 26 03:09	0°♈	
	9260 Feb 10 00:34	0°♉	
	9260 Mar 21 20:18	0°♊	
asc. node	9260 Apr 05 17:24	11°♊23'39	
	9260 Apr 29 15:47	0°♋	
	9260 Jun 07 01:07	0°♌	
	9260 Jul 16 03:03	0°♍	
	9260 Aug 25 16:53	0°♎	
evening set	9260 Sep 07 18:07	9°♎21'50	
	9260 Oct 07 05:22	0°♏	
conjunction	9260 Nov 01 10:21	17°♏08'08	0°58'09
minimum elong	9260 Nov 01 11:39	17°♏10'19	0°58'20
	9260 Nov 20 18:34	0°♐	
max. Earth dist.	9260 Nov 24 11:07	2°♐25'42	2.60671 AU
morning rise	9260 Dec 20 09:48	19°♐17'53	
	9261 Jan 06 03:13	0°♑	
	9261 Feb 23 01:31	0°♒	
desc. node	9261 Mar 11 18:30	10°♒13'43	
	9261 Apr 13 18:31	0°♓	
	9261 Jun 06 03:34	0°♈	
	9261 Aug 21 18:48	0°♉	
retrograde	9261 Sep 04 16:30	1°♉07'19	
	9261 Sep 18 01:56	30°℞♈	
opposition	9261 Oct 08 22:03	24°♈17'59	-5°39'59
greatest brilliancy	9261 Oct 10 16:54	23°♈41'17	-2.2m
min. Earth dist.	9261 Oct 17 16:20	21°♈18'53	0.48190 AU
direct	9261 Nov 15 10:24	15°♈55'37	
	9262 Jan 03 18:17	0°♉	

asc. node	9262 Feb 21 18:16	29°♉47'13	
	9262 Feb 22 01:43	0°♊	
	9262 Apr 04 18:32	0°♋	
	9262 May 14 21:38	0°♌	
	9262 Jun 24 09:42	0°♍	
	9262 Aug 05 06:21	0°♎	
	9262 Sep 17 21:28	0°♏	
evening set	9262 Oct 25 08:46	24°♏51'47	
	9262 Nov 02 05:42	0°♐	
conjunction	9262 Dec 11 19:03	25°♐29'32	0°24'08
minimum elong	9262 Dec 11 19:49	25°♐30'44	0°24'25
	9262 Dec 18 20:33	0°♑	
max. Earth dist.	9262 Dec 18 15:39	29°♐52'12	2.67033 AU
morning rise	9263 Jan 25 07:07	23°♑45'45	
desc. node	9263 Jan 27 14:03	25°♑12'38	
	9263 Feb 04 03:51	0°♒	
	9263 Mar 23 15:57	0°♓	
	9263 May 10 05:35	0°♈	
	9263 Jun 27 05:28	0°♉	
	9263 Aug 16 01:43	0°♊	
	9263 Oct 15 18:15	0°♋	
retrograde	9263 Nov 18 19:14	6°♋37'55	
opposition	9263 Dec 18 11:42	1°♋43'30	-1°43'15
greatest brilliancy	9263 Dec 18 17:40	1°♋39'32	-3.0m
min. Earth dist.	9263 Dec 20 16:28	1°♋08'26	0.36871 AU
	9263 Dec 25 01:38	30°℞♊	
asc. node	9264 Jan 09 19:54	27°♊01'07	
direct	9264 Jan 17 13:10	26°♊37'09	
	9264 Feb 09 08:23	0°♋	
	9264 Apr 10 17:02	0°♌	
	9264 May 27 14:28	0°♍	
	9264 Jul 12 03:37	0°♎	
	9264 Aug 27 05:33	0°♏	
	9264 Oct 13 04:10	0°♐	
	9264 Nov 29 15:31	0°♑	
evening set	9264 Dec 01 18:58	1°♑21'11	
desc. node	9264 Dec 14 11:23	9°♑21'40	
max. Earth dist.	9265 Jan 09 05:28	25°♑40'30	2.67881 AU
conjunction	9265 Jan 15 10:56	29°♑38'10	-0°16'40
minimum elong	9265 Jan 15 10:26	29°♑37'23	0°16'23
	9265 Jan 16 00:39	0°♒	
morning rise	9265 Feb 28 00:01	27°♒35'58	
	9265 Mar 03 16:47	0°♓	
	9265 Apr 18 06:29	0°♈	
	9265 Jun 01 14:22	0°♉	
	9265 Jul 14 17:34	0°♊	
	9265 Aug 26 00:08	0°♋	
	9265 Oct 07 09:14	0°♌	
	9265 Nov 21 23:09	0°♍	
asc. node	9265 Nov 26 20:08	2°♍53'04	
retrograde	9266 Jan 29 10:49	25°♍20'56	
min. Earth dist.	9266 Feb 25 02:02	20°♍28'36	0.43310 AU
greatest brilliancy	9266 Mar 03 18:35	18°♍15'15	-2.5m
opposition	9266 Mar 05 09:12	17°♍42'47	5°21'28
direct	9266 Apr 06 03:59	11°♍28'44	
	9266 Jun 07 18:30	0°♎	
	9266 Aug 02 13:13	0°♏	
	9266 Sep 22 10:45	0°♐	
desc. node	9266 Nov 01 11:11	24°♐15'51	
	9266 Nov 10 19:27	0°♑	
	9266 Dec 28 21:43	0°♒	
evening set	9267 Jan 06 14:27	5°♒31'35	
max. Earth dist.	9267 Feb 01 08:17	22°♒06'01	2.63241 AU
	9267 Feb 13 10:13	0°♓	
conjunction	9267 Feb 20 13:06	4°♓41'47	-0°52'09
minimum elong	9267 Feb 20 11:57	4°♓39'53	0°51'59
	9267 Mar 30 02:41	0°♈	
morning rise	9267 Apr 07 14:06	5°♈50'13	
	9267 May 11 22:25	0°♉	
	9267 Jun 22 01:50	0°♊	
	9267 Jul 31 22:43	0°♋	
	9267 Sep 09 05:01	0°♌	
asc. node	9267 Oct 14 16:43	26°♌52'46	
	9267 Oct 18 21:12	0°♍	
	9267 Nov 29 16:54	0°♎	
	9268 Jan 17 03:31	0°♏	
retrograde	9268 Mar 16 22:29	18°♏58'29	
min. Earth dist.	9268 Apr 18 11:56	11°♏50'40	0.56772 AU
greatest brilliancy	9268 Apr 24 01:32	9°♏41'01	-1.8m
opposition	9268 Apr 25 02:53	9°♏16'23	4°40'04
direct	9268 May 31 15:05	1°♏02'13	
	9268 Aug 26 11:53	0°♐	
desc. node	9268 Sep 18 13:16	12°♐12'11	
	9268 Oct 20 02:30	0°♑	
	9268 Dec 09 01:39	0°♒	
	9269 Jan 25 01:52	0°♓	
evening set	9269 Feb 12 14:51	12°♓19'25	
max. Earth dist.	9269 Feb 28 19:41	23°♓19'42	2.53463 AU
	9269 Mar 10 11:33	0°♈	
conjunction	9269 Apr 02 14:41	16°♈18'05	-1°07'41
minimum elong	9269 Apr 02 14:48	16°♈18'17	1°07'46
	9269 Apr 21 13:28	0°♉	
morning rise	9269 May 27 09:06	26°♉41'06	
	9269 May 31 17:49	0°♊	
	9269 Jul 09 15:04	0°♋	
	9269 Aug 16 23:09	0°♌	
asc. node	9269 Aug 31 12:15	11°♌21'31	
	9269 Sep 24 15:02	0°♍	
	9269 Nov 03 15:30	0°♎	
	9269 Dec 16 09:35	0°♏	
	9270 Feb 02 19:22	0°♐	
retrograde	9270 Apr 22 22:05	27°♐30'20	
min. Earth dist.	9270 May 30 12:33	18°♐41'24	0.65673 AU
opposition	9270 Jun 02 10:35	17°♐31'42	2°13'45
greatest brilliancy	9270 Jun 02 05:26	17°♐36'50	-1.4m
direct	9270 Jul 12 03:27	8°♐11'04	
desc. node	9270 Aug 06 15:57	11°♐40'03	
	9270 Sep 23 10:37	0°♑	
	9270 Nov 18 05:11	0°♒	
	9271 Jan 05 21:05	0°♓	
	9271 Feb 19 14:13	0°♈	
evening set	9271 Mar 31 06:29	28°♈25'21	
	9271 Apr 02 09:49	0°♉	
max. Earth dist.	9271 Apr 18 18:10	12°♉11'45	2.40215 AU
	9271 May 12 02:36	0°♊	
conjunction	9271 May 30 08:52	14°♊10'48	-0°34'24
minimum elong	9271 May 30 11:35	14°♊16'06	0°34'40
	9271 Jun 19 12:08	0°♋	
asc. node	9271 Jul 19 09:35	23°♋38'03	
	9271 Jul 27 11:04	0°♌	
morning rise	9271 Aug 09 21:24	10°♌34'15	
	9271 Sep 03 20:23	0°♍	
	9271 Oct 13 12:47	0°♎	
	9271 Nov 24 08:27	0°♏	
	9272 Jan 08 07:03	0°♐	
	9272 Feb 27 14:19	0°♑	
	9272 May 14 17:33	0°♒	
retrograde	9272 May 26 01:05	0°♒45'39	
	9272 Jun 05 22:20	30°℞♑	

desc. node	9272 Jun 23 16:14	25°♉34'46	
opposition	9272 Jul 05 09:41	21°♉08'50	-0°24'15
greatest brilliancy	9272 Jul 05 09:50	21°♉08'41	-1.3m
min. Earth dist.	9272 Jul 06 06:45	20°♉48'01	0.68162 AU
direct	9272 Aug 15 18:28	11°♉13'48	
	9272 Oct 20 15:52	0°♒	
	9272 Dec 14 08:11	0°♓	
	9273 Jan 29 13:48	0°♈	
	9273 Mar 12 16:43	0°♉	
	9273 Apr 21 07:07	0°♊	
	9273 May 29 12:37	0°♋	
evening set	9273 Jun 03 19:52	4°♋11'58	
asc. node	9273 Jun 05 07:15	5°♋22'06	
	9273 Jul 06 09:41	0°♌	
	9273 Aug 13 20:27	0°♍	
conjunction	9273 Aug 14 00:15	0°♍07'18	0°45'27
minimum elong	9273 Aug 13 20:50	0°♍00'44	0°45'15
	9273 Sep 22 16:10	0°♎	
max. Earth dist.	9273 Oct 05 04:09	9°♎08'05	2.43574 AU
morning rise	9273 Oct 18 16:30	18°♎51'13	
	9273 Nov 03 11:42	0°♏	
	9273 Dec 17 17:31	0°♐	
	9274 Feb 02 21:52	0°♑	
	9274 Mar 26 15:29	0°♒	
desc. node	9274 May 11 13:36	22°♒06'57	
	9274 Jun 03 14:16	0°♓	
retrograde	9274 Jul 01 06:49	4°♓02'53	
	9274 Jul 26 17:46	30°♓℞	
opposition	9274 Aug 09 05:21	25°♒10'48	-3°00'17
greatest brilliancy	9274 Aug 09 16:02	25°♒00'27	-1.4m
min. Earth dist.	9274 Aug 13 21:16	23°♒22'38	0.64057 AU
direct	9274 Sep 19 16:34	15°♒09'31	
	9274 Nov 13 21:19	0°♓	
	9275 Jan 06 07:56	0°♈	
	9275 Feb 19 05:46	0°♉	
	9275 Mar 31 09:58	0°♊	
asc. node	9275 Apr 23 07:59	17°♊46'39	
	9275 May 08 21:36	0°♋	
	9275 Jun 16 00:41	0°♌	
	9275 Jul 24 20:02	0°♍	
evening set	9275 Aug 16 11:41	17°♍02'10	
	9275 Sep 03 02:36	0°♎	
conjunction	9275 Oct 14 20:49	29°♎40'07	1°05'22
minimum elong	9275 Oct 14 21:32	29°♎41'23	1°05'30
	9275 Oct 15 08:17	0°♏	
max. Earth dist.	9275 Nov 14 10:47	20°♏30'50	2.56735 AU
	9275 Nov 28 16:48	0°♐	
morning rise	9275 Dec 05 23:37	4°♐47'43	
	9276 Jan 14 02:26	0°♑	
	9276 Mar 02 13:24	0°♒	
desc. node	9276 Mar 28 09:30	15°♒22'17	
	9276 Apr 22 23:35	0°♓	
	9276 Jun 22 03:14	0°♈	
retrograde	9276 Aug 13 17:38	12°♈47'09	
opposition	9276 Sep 18 17:56	5°♈12'27	-5°14'11
greatest brilliancy	9276 Sep 20 04:58	4°♈40'40	-1.9m
min. Earth dist.	9276 Sep 26 20:05	2°♈17'03	0.53633 AU
	9276 Oct 03 16:25	30°♓℞	
direct	9276 Oct 28 02:36	25°♓59'39	
	9276 Nov 22 10:11	0°♈	
	9277 Jan 21 14:44	0°♉	
	9277 Mar 06 02:26	0°♊	
asc. node	9277 Mar 10 11:01	3°♊11'55	
	9277 Apr 15 00:58	0°♋	
	9277 May 24 04:14	0°♌	
	9277 Jul 02 22:00	0°♍	
	9277 Aug 13 02:53	0°♎	
	9277 Sep 25 04:58	0°♏	
evening set	9277 Oct 08 10:58	8°♏58'02	
	9277 Nov 09 03:45	0°♐	
conjunction	9277 Nov 27 00:54	11°♐38'47	0°38'54
minimum elong	9277 Nov 27 02:03	11°♐40'39	0°39'10
max. Earth dist.	9277 Dec 09 17:48	19°♐50'36	2.65200 AU
	9277 Dec 25 14:27	0°♑	
morning rise	9278 Jan 11 19:05	10°♑55'48	
	9278 Feb 11 01:00	0°♒	
desc. node	9278 Feb 13 04:34	1°♒20'54	
	9278 Mar 31 03:45	0°♓	
	9278 May 19 04:09	0°♈	
	9278 Jul 09 12:33	0°♉	
	9278 Sep 09 18:17	0°♊	
retrograde	9278 Oct 17 04:06	7°♊29'48	
opposition	9278 Nov 17 06:48	2°♊02'15	-4°33'03
greatest brilliancy	9278 Nov 18 13:44	1°♊39'24	-2.7m
min. Earth dist.	9278 Nov 24 01:12	0°♊03'17	0.40055 AU
	9278 Nov 24 05:49	30°♉℞	
direct	9278 Dec 20 07:16	25°♉42'32	
	9279 Jan 14 17:31	0°♊	
asc. node	9279 Jan 26 12:33	4°♊25'29	
	9279 Mar 13 17:06	0°♋	
	9279 Apr 27 02:04	0°♌	
	9279 Jun 08 22:46	0°♍	
	9279 Jul 22 10:25	0°♎	
	9279 Sep 05 06:02	0°♏	
	9279 Oct 21 09:42	0°♐	
evening set	9279 Nov 18 10:59	17°♐55'52	
	9279 Dec 07 10:50	0°♑	
desc. node	9280 Jan 01 00:40	15°♑35'04	
conjunction	9280 Jan 02 19:28	16°♑42'57	-0°00'57
minimum elong	9280 Jan 02 19:29	16°♑42'58	0°00'39
behind sun begin	9280 Jan 02 01:08	16°♑13'53	
behind sun end	9280 Jan 03 13:49	17°♑12'03	
max. Earth dist.	9280 Jan 01 13:52	15°♑56'02	2.68206 AU
	9280 Jan 23 17:36	0°♒	
morning rise	9280 Feb 15 08:52	14°♒25'47	
	9280 Mar 10 15:17	0°♓	
	9280 Apr 25 19:20	0°♈	
	9280 Jun 10 03:20	0°♉	
	9280 Jul 24 18:47	0°♊	
	9280 Sep 07 08:41	0°♋	
	9280 Oct 24 07:13	0°♌	
asc. node	9280 Dec 13 11:56	23°♌45'06	
retrograde	9281 Jan 04 21:02	27°♌07'16	
min. Earth dist.	9281 Jan 30 18:23	22°♌48'38	0.38720 AU
greatest brilliancy	9281 Feb 05 02:20	21°♌15'08	-2.9m
opposition	9281 Feb 06 01:20	20°♌58'13	3°47'33
direct	9281 Mar 07 21:45	15°♌40'27	
	9281 Apr 29 08:20	0°♍	
	9281 Jun 23 21:55	0°♎	
	9281 Aug 12 17:17	0°♏	
	9281 Sep 30 12:52	0°♐	
	9281 Nov 17 23:13	0°♑	
desc. node	9281 Nov 18 00:19	0°♑01'42	
evening set	9281 Dec 23 16:07	22°♑22'57	
	9282 Jan 04 16:44	0°♒	
max. Earth dist.	9282 Jan 23 01:50	11°♒44'39	2.65693 AU
conjunction	9282 Feb 06 03:35	20°♒49'38	-0°39'48
minimum elong	9282 Feb 06 02:34	20°♒47'59	0°39'35
	9282 Feb 20 05:16	0°♓	

morning rise	9282 Mar 22 17:05	20°♓13'14	
	9282 Apr 06 04:31	0°♈	
	9282 May 19 11:46	0°♉	
	9282 Jun 30 05:42	0°♊	
	9282 Aug 09 18:15	0°♋	
	9282 Sep 18 17:36	0°♌	
	9282 Oct 29 09:31	0°♍	
asc. node	9282 Oct 31 10:32	1°♍28'02	
	9282 Dec 12 12:38	0°♎	
	9283 Feb 17 23:32	0°♏	
retrograde	9283 Mar 01 07:43	0°♏54'55	
	9283 Mar 12 10:39	30°℞♎	
min. Earth dist.	9283 Mar 31 12:43	24°♎38'14	0.51798 AU
greatest brilliancy	9283 Apr 06 21:47	22°♎14'44	-2.0m
opposition	9283 Apr 08 08:33	21°♎42'02	5°21'27
direct	9283 May 13 03:35	14°♎07'09	
	9283 Jul 10 21:18	0°♏	
	9283 Sep 07 09:46	0°♐	
desc. node	9283 Oct 06 02:12	16°♐22'12	
	9283 Oct 29 04:52	0°♑	
	9283 Dec 17 05:46	0°♒	
evening set	9284 Jan 29 05:18	27°♒31'52	
	9284 Feb 01 23:34	0°♓	
max. Earth dist.	9284 Feb 17 17:36	10°♓27'10	2.57858 AU
conjunction	9284 Mar 16 01:04	29°♓01'27	-1°05'27
minimum elong	9284 Mar 16 00:21	29°♓00'12	1°05'25
	9284 Mar 17 10:57	0°♈	
	9284 Apr 28 18:48	0°♉	
morning rise	9284 May 05 07:50	4°♉45'48	
	9284 Jun 08 07:01	0°♊	
	9284 Jul 17 11:54	0°♋	
	9284 Aug 25 02:30	0°♌	
asc. node	9284 Sep 17 06:47	17°♌57'08	
	9284 Oct 03 00:20	0°♍	
	9284 Nov 12 09:34	0°♎	
	9284 Dec 26 03:33	0°♏	
	9285 Feb 17 02:49	0°♐	
retrograde	9285 Apr 09 04:30	13°♐42'30	
min. Earth dist.	9285 May 14 23:57	5°♐28'30	0.62926 AU
opposition	9285 May 19 09:47	3°♐43'35	3°13'32
greatest brilliancy	9285 May 18 22:15	3°♐55'01	-1.5m
	9285 May 29 06:13	30°℞♏	
direct	9285 Jun 27 01:27	24°♏44'08	
	9285 Jul 28 21:54	0°♐	
desc. node	9285 Aug 23 04:39	9°♐17'44	
	9285 Oct 04 19:41	0°♑	
	9285 Nov 26 09:59	0°♒	
	9286 Jan 13 05:45	0°♓	
	9286 Feb 26 18:26	0°♈	
evening set	9286 Mar 11 11:18	8°♈55'14	
max. Earth dist.	9286 Mar 25 07:34	18°♈49'20	2.45501 AU
	9286 Apr 09 15:31	0°♉	
conjunction	9286 May 05 02:59	19°♉02'07	-0°55'36
minimum elong	9286 May 05 05:12	19°♉06'19	0°55'48
	9286 May 19 12:01	0°♊	
	9286 Jun 27 01:12	0°♋	
morning rise	9286 Jul 09 06:02	9°♋36'21	
	9286 Aug 04 02:43	0°♌	
asc. node	9286 Aug 05 02:00	0°♌45'49	
	9286 Sep 11 13:22	0°♍	
	9286 Oct 21 06:45	0°♎	
	9286 Dec 02 06:29	0°♏	
	9287 Jan 16 22:19	0°♐	
	9287 Mar 11 12:47	0°♑	
retrograde	9287 May 13 18:44	18°♑16'19	
opposition	9287 Jun 23 08:41	8°♑28'09	0°36'59
greatest brilliancy	9287 Jun 23 08:34	8°♑28'16	-1.3m
min. Earth dist.	9287 Jun 22 18:01	8°♑42'43	0.67980 AU
desc. node	9287 Jul 11 05:54	2°♑03'38	
	9287 Jul 19 23:54	30°℞♐	
direct	9287 Aug 03 06:10	28°♐43'34	
	9287 Aug 18 06:09	0°♑	
	9287 Nov 02 14:40	0°♒	
	9287 Dec 23 21:28	0°♓	
	9288 Feb 07 08:07	0°♈	
	9288 Mar 20 06:29	0°♉	
	9288 Apr 28 20:54	0°♊	
evening set	9288 May 06 10:00	5°♊51'33	
	9288 Jun 06 03:01	0°♋	
asc. node	9288 Jun 22 00:45	12°♋36'21	
	9288 Jul 13 23:44	0°♌	
conjunction	9288 Jul 14 18:16	0°♌36'36	0°16'21
minimum elong	9288 Jul 14 16:29	0°♌33'04	0°16'03
behind sun begin	9288 Jul 14 14:07	0°♌28'25	
behind sun end	9288 Jul 14 18:50	0°♌37'43	
	9288 Aug 21 08:46	0°♍	
max. Earth dist.	9288 Aug 31 17:52	7°♍57'51	2.38167 AU
morning rise	9288 Sep 24 07:36	25°♍44'03	
	9288 Sep 30 01:42	0°♎	
	9288 Nov 10 19:11	0°♏	
	9288 Dec 25 03:34	0°♐	
	9289 Feb 11 01:02	0°♑	
	9289 Apr 06 20:40	0°♒	
desc. node	9289 May 28 04:21	18°♒54'20	
retrograde	9289 Jun 16 14:51	21°♒00'37	
opposition	9289 Jul 26 06:43	11°♒48'09	-2°00'40
greatest brilliancy	9289 Jul 26 11:16	11°♒43'42	-1.4m
min. Earth dist.	9289 Jul 29 11:09	10°♒33'28	0.66460 AU
direct	9289 Sep 05 22:13	1°♒45'16	
	9289 Nov 27 16:33	0°♓	
	9290 Jan 15 18:37	0°♈	
	9290 Feb 27 16:52	0°♉	
	9290 Apr 08 13:20	0°♊	
asc. node	9290 May 10 01:13	24°♊36'33	
	9290 May 16 21:05	0°♋	
	9290 Jun 23 20:28	0°♌	
evening set	9290 Jul 20 10:20	20°♌44'43	
	9290 Aug 01 11:05	0°♍	
	9290 Sep 10 11:49	0°♎	
conjunction	9290 Sep 23 12:54	9°♎28'54	1°05'58
minimum elong	9290 Sep 23 12:10	9°♎27'35	1°06'00
	9290 Oct 22 11:47	0°♏	
max. Earth dist.	9290 Nov 01 15:55	7°♏02'25	2.52001 AU
morning rise	9290 Nov 19 00:37	18°♏51'39	
	9290 Dec 05 17:02	0°♐	
	9291 Jan 21 06:08	0°♑	
	9291 Mar 11 12:27	0°♒	
desc. node	9291 Apr 15 00:09	19°♒34'29	
	9291 May 04 19:36	0°♓	
retrograde	9291 Jul 26 21:33	26°♓48'30	
opposition	9291 Sep 02 06:48	18°♓38'08	-4°28'30
greatest brilliancy	9291 Sep 03 07:32	18°♓14'54	-1.7m
min. Earth dist.	9291 Sep 09 03:55	16°♓03'31	0.58396 AU
direct	9291 Oct 12 19:53	8°♓56'11	
	9291 Dec 17 08:11	0°♈	
	9292 Feb 03 13:32	0°♉	
	9292 Mar 16 01:32	0°♊	
asc. node	9292 Mar 27 02:05	8°♊20'50	
	9292 Apr 24 04:18	0°♋	
	9292 Jun 01 18:29	0°♌	

	9292 Jul 11 00:45	0°♍	
	9292 Aug 20 18:30	0°♎	
evening set	9292 Sep 19 12:54	21°♎04'45	
	9292 Oct 02 10:30	0°♏	
conjunction	9292 Nov 11 02:51	26°♏43'47	0°51'55
minimum elong	9292 Nov 11 04:12	26°♏46'03	0°52'09
	9292 Nov 16 01:45	0°♐	
max. Earth dist.	9292 Nov 30 07:47	9°♐19'54	2.62503 AU
morning rise	9292 Dec 28 18:11	27°♐40'02	
	9293 Jan 01 09:54	0°♑	
	9293 Feb 18 02:19	0°♒	
desc. node	9293 Mar 01 19:39	7°♒15'31	
	9293 Apr 08 02:14	0°♓	
	9293 May 29 09:33	0°♈	
	9293 Jul 27 12:28	0°♉	
retrograde	9293 Sep 18 18:09	13°♉20'59	
opposition	9293 Oct 21 19:51	7°♉00'12	-5°36'24
greatest brilliancy	9293 Oct 23 15:19	6°♉24'32	-2.4m
min. Earth dist.	9293 Oct 30 10:37	4°♉11'28	0.45123 AU
	9293 Nov 16 18:34	30°℞♈	
direct	9293 Nov 26 23:51	29°♈15'39	
	9293 Dec 07 05:35	0°♉	
asc. node	9294 Feb 12 03:56	29°♉37'38	
	9294 Feb 12 18:03	0°♊	
	9294 Mar 28 13:00	0°♋	
	9294 May 08 13:48	0°♌	
	9294 Jun 18 15:51	0°♍	
	9294 Jul 30 22:46	0°♎	
	9294 Sep 12 21:48	0°♏	
	9294 Oct 28 11:28	0°♐	
evening set	9294 Nov 03 09:29	3°♐49'53	
	9294 Dec 14 05:07	0°♑	
conjunction	9294 Dec 19 22:17	3°♑38'17	0°15'01
minimum elong	9294 Dec 19 22:45	3°♑39'03	0°15'18
behind sun begin	9294 Dec 19 17:42	3°♑31'00	
behind sun end	9294 Dec 20 03:49	3°♑47'06	
max. Earth dist.	9294 Dec 23 18:25	6°♑04'47	2.67681 AU
desc. node	9295 Jan 17 15:52	21°♑52'40	
	9295 Jan 30 11:24	0°♒	
morning rise	9295 Feb 01 23:15	1°♒34'50	
	9295 Mar 18 17:18	0°♓	
	9295 May 04 16:51	0°♈	
	9295 Jun 20 12:20	0°♉	
	9295 Aug 06 18:44	0°♊	
	9295 Sep 25 23:41	0°♋	
retrograde	9295 Dec 07 00:53	25°♋06'28	
asc. node	9295 Dec 31 05:27	21°♋36'32	
min. Earth dist.	9296 Jan 04 22:16	20°♋22'36	0.36555 AU
opposition	9296 Jan 06 02:30	20°♋03'43	0°27'39
greatest brilliancy	9296 Jan 06 01:37	20°♋04'19	-3.1m
direct	9296 Feb 04 11:29	15°♋11'18	
	9296 Mar 27 09:26	0°♌	
	9296 May 19 04:23	0°♍	
	9296 Jul 05 15:59	0°♎	
	9296 Aug 21 16:52	0°♏	
	9296 Oct 08 04:14	0°♐	
	9296 Nov 24 22:35	0°♑	
desc. node	9296 Dec 04 13:31	6°♑03'12	
evening set	9296 Dec 09 18:53	9°♑20'32	
	9297 Jan 11 10:13	0°♒	
max. Earth dist.	9297 Jan 14 06:23	1°♒48'30	2.67330 AU
conjunction	9297 Jan 23 06:19	7°♒33'11	-0°25'34
minimum elong	9297 Jan 23 05:35	7°♒32'02	0°25'18
	9297 Feb 27 00:51	0°♓	
morning rise	9297 Mar 08 00:37	5°♓52'36	
	9297 Apr 13 09:02	0°♈	
	9297 May 27 07:01	0°♉	
	9297 Jul 08 20:28	0°♊	
	9297 Aug 19 08:18	0°♋	
	9297 Sep 29 13:16	0°♌	
	9297 Nov 11 08:55	0°♍	
asc. node	9297 Nov 17 03:06	3°♍48'14	
	9298 Jan 02 09:28	0°♎	
retrograde	9298 Feb 10 10:41	9°♎39'21	
min. Earth dist.	9298 Mar 10 06:46	4°♎17'35	0.46342 AU
greatest brilliancy	9298 Mar 17 01:04	1°♎54'53	-2.3m
opposition	9298 Mar 18 17:16	1°♎19'17	5°36'14
	9298 Mar 22 12:57	30°℞♍	
direct	9298 Apr 20 13:43	24°♍33'44	
	9298 May 21 16:51	0°♎	
	9298 Jul 26 00:24	0°♏	
	9298 Sep 16 17:52	0°♐	
desc. node	9298 Oct 22 14:35	21°♐22'32	
	9298 Nov 05 19:50	0°♑	
	9298 Dec 24 05:22	0°♒	
evening set	9299 Jan 14 15:37	13°♒38'30	
max. Earth dist.	9299 Feb 07 00:26	28°♒48'47	2.61552 AU
	9299 Feb 08 19:49	0°♓	
conjunction	9299 Mar 01 01:45	13°♓26'35	-0°58'07
minimum elong	9299 Mar 01 00:39	13°♓24'46	0°58'00
	9299 Mar 25 10:50	0°♈	
morning rise	9299 Apr 17 07:26	15°♈54'44	
	9299 May 07 02:25	0°♉	
	9299 Jun 17 00:15	0°♊	
	9299 Jul 26 14:45	0°♋	
	9299 Sep 03 14:05	0°♌	
asc. node	9299 Oct 05 00:35	24°♌03'41	
	9299 Oct 12 21:23	0°♍	
	9299 Nov 22 23:05	0°♎	
	9300 Jan 07 19:00	0°♏	
retrograde	9300 Mar 26 17:24	28°♏45'14	
min. Earth dist.	9300 Apr 29 12:25	21°♏11'56	0.59231 AU
opposition	9300 May 05 09:10	18°♏53'55	4°10'20
greatest brilliancy	9300 May 04 13:13	19°♏13'29	-1.7m
direct	9300 Jun 11 17:57	10°♏21'26	
	9300 Aug 18 21:37	0°♐	
desc. node	9300 Sep 09 16:56	10°♐41'54	
	9300 Oct 15 07:28	0°♑	
	9300 Dec 05 01:41	0°♒	
	9301 Jan 21 08:32	0°♓	
evening set	9301 Feb 22 21:12	21°♓46'12	
	9301 Mar 06 19:46	0°♈	
max. Earth dist.	9301 Mar 09 16:15	1°♈59'12	2.50779 AU
conjunction	9301 Apr 14 12:03	27°♈33'06	-1°05'54
minimum elong	9301 Apr 14 12:51	27°♈34'34	1°06'02
	9301 Apr 17 20:26	0°♉	
	9301 May 27 22:27	0°♊	
morning rise	9301 Jun 11 12:17	11°♊11'29	
	9301 Jul 05 16:56	0°♋	
	9301 Aug 12 22:18	0°♌	
asc. node	9301 Aug 22 21:20	7°♌48'12	
	9301 Sep 20 11:27	0°♍	
	9301 Oct 30 07:37	0°♎	
	9301 Dec 11 15:31	0°♏	
	9302 Jan 27 14:38	0°♐	
	9302 Mar 31 01:15	0°♑	
retrograde	9302 May 01 14:01	5°♑32'26	
	9302 May 30 18:48	30°℞♐	
min. Earth dist.	9302 Jun 09 02:28	26°♐26'14	0.66773 AU

opposition	9302 Jun 11 04:38	25°♐36'20	1°38'07
greatest brilliancy	9302 Jun 11 02:02	25°♐38'55	-1.4m
direct	9302 Jul 21 09:19	16°♐05'53	
desc. node	9302 Jul 28 18:25	16°♐25'07	
	9302 Sep 15 02:22	0°♑	
	9302 Nov 13 08:17	0°♒	
	9303 Jan 01 19:12	0°♓	
	9303 Feb 15 18:27	0°♈	
	9303 Mar 29 15:15	0°♉	
evening set	9303 Apr 13 17:06	11°♉14'23	
	9303 May 08 07:30	0°♊	
max. Earth dist.	9303 May 14 11:03	4°♊45'28	2.37677 AU
	9303 Jun 15 15:56	0°♋	
conjunction	9303 Jun 16 07:05	0°♋29'56	-0°17'32
minimum elong	9303 Jun 16 08:52	0°♋33'26	0°17'49
asc. node	9303 Jul 10 17:17	19°♋49'47	
	9303 Jul 23 13:54	0°♌	
morning rise	9303 Aug 28 13:01	28°♌08'37	
	9303 Aug 30 22:42	0°♍	
	9303 Oct 09 14:23	0°♎	
	9303 Nov 20 07:37	0°♏	
	9304 Jan 03 22:12	0°♐	
	9304 Feb 22 00:12	0°♑	
	9304 Apr 23 18:50	0°♒	
retrograde	9304 Jun 03 17:56	8°♒24'07	
desc. node	9304 Jun 14 17:51	7°♒37'57	
	9304 Jul 11 03:56	30°℞♑	
opposition	9304 Jul 13 22:08	28°♑55'02	-1°00'07
greatest brilliancy	9304 Jul 13 23:07	28°♑54'04	-1.3m
min. Earth dist.	9304 Jul 15 14:58	28°♑14'50	0.67837 AU
direct	9304 Aug 24 11:10	18°♑55'56	
	9304 Oct 11 11:03	0°♒	
	9304 Dec 09 05:44	0°♓	
	9305 Jan 25 07:18	0°♈	
	9305 Mar 08 16:26	0°♉	
	9305 Apr 17 08:55	0°♊	
	9305 May 25 14:56	0°♋	
asc. node	9305 May 27 16:05	1°♋37'20	
evening set	9305 Jun 21 17:46	21°♋29'19	
	9305 Jul 02 12:13	0°♌	
	9305 Aug 09 23:38	0°♍	
conjunction	9305 Aug 30 17:01	15°♍45'45	0°56'33
minimum elong	9305 Aug 30 14:17	15°♍40'35	0°56'27
	9305 Sep 18 20:12	0°♎	
max. Earth dist.	9305 Oct 17 17:16	20°♎52'44	2.46694 AU
	9305 Oct 30 16:07	0°♏	
morning rise	9305 Oct 31 20:15	0°♏49'05	
	9305 Dec 13 20:17	0°♐	
	9306 Jan 29 16:32	0°♑	
	9306 Mar 21 05:22	0°♒	
desc. node	9306 May 02 15:28	22°♒10'20	
	9306 May 20 08:41	0°♓	
retrograde	9306 Jul 11 03:44	12°♓21'19	
opposition	9306 Aug 18 14:57	3°♓42'32	-3°34'02
greatest brilliancy	9306 Aug 19 06:09	3°♓27'58	-1.5m
min. Earth dist.	9306 Aug 24 02:25	1°♓36'42	0.62306 AU
	9306 Aug 28 10:38	30°℞♒	
direct	9306 Sep 28 21:10	23°♒45'29	
	9306 Nov 01 09:41	0°♓	
	9306 Dec 31 11:37	0°♈	
	9307 Feb 14 11:21	0°♉	
	9307 Mar 27 00:48	0°♊	
asc. node	9307 Apr 14 18:14	14°♊25'34	
	9307 May 04 16:52	0°♋	
	9307 Jun 11 22:50	0°♌	
	9307 Jul 20 20:52	0°♍	
	9307 Aug 30 06:02	0°♎	
evening set	9307 Aug 31 01:12	0°♎34'47	
	9307 Oct 11 13:57	0°♏	
conjunction	9307 Oct 26 16:20	10°♏21'25	1°01'48
minimum elong	9307 Oct 26 17:29	10°♏23'22	1°01'59
max. Earth dist.	9307 Nov 21 23:07	28°♏00'01	2.59008 AU
	9307 Nov 24 23:38	0°♐	
morning rise	9307 Dec 15 22:32	13°♐42'57	
	9308 Jan 10 07:21	0°♑	
	9308 Feb 27 09:29	0°♒	
desc. node	9308 Mar 19 10:59	12°♒45'53	
	9308 Apr 17 16:48	0°♓	
	9308 Jun 12 02:59	0°♈	
retrograde	9308 Aug 26 17:58	23°♈21'19	
opposition	9308 Sep 30 19:18	16°♈10'41	-5°32'10
greatest brilliancy	9308 Oct 02 11:26	15°♈35'17	-2.1m
min. Earth dist.	9308 Oct 09 08:48	13°♈10'16	0.50665 AU
direct	9308 Nov 08 06:11	7°♈22'46	
	9309 Jan 12 23:33	0°♉	
	9309 Feb 27 23:49	0°♊	
asc. node	9309 Mar 01 19:07	1°♊16'51	
	9309 Apr 09 19:14	0°♋	
	9309 May 19 10:00	0°♌	
	9309 Jun 28 12:24	0°♍	
	9309 Aug 09 00:23	0°♎	
	9309 Sep 21 08:05	0°♏	
evening set	9309 Oct 19 06:30	18°♏42'11	
	9309 Nov 05 10:48	0°♐	
conjunction	9309 Dec 06 13:30	20°♐08'51	0°30'25
minimum elong	9309 Dec 06 14:26	20°♐10'22	0°30'42
max. Earth dist.	9309 Dec 16 00:12	26°♐12'03	2.66318 AU
	9309 Dec 21 22:57	0°♑	
morning rise	9310 Jan 20 13:28	18°♑48'09	
desc. node	9310 Feb 04 06:13	28°♑05'13	
	9310 Feb 07 07:01	0°♒	
	9310 Mar 27 00:59	0°♓	
	9310 May 14 04:11	0°♈	
	9310 Jul 02 08:36	0°♉	
	9310 Aug 24 09:02	0°♊	
retrograde	9310 Nov 05 05:02	23°♊46'28	
opposition	9310 Dec 05 07:40	18°♊43'03	-3°10'05
greatest brilliancy	9310 Dec 06 00:33	18°♊31'25	-2.9m
min. Earth dist.	9310 Dec 09 22:20	17°♊27'11	0.37926 AU
direct	9311 Jan 05 12:04	13°♊09'34	
asc. node	9311 Jan 17 20:27	14°♊11'34	
	9311 Mar 01 01:15	0°♋	
	9311 Apr 19 10:34	0°♌	
	9311 Jun 03 01:54	0°♍	
	9311 Jul 17 13:10	0°♎	
	9311 Aug 31 23:26	0°♏	
	9311 Oct 17 12:24	0°♐	
evening set	9311 Nov 27 17:20	26°♐10'05	
	9311 Dec 03 18:41	0°♑	
desc. node	9311 Dec 23 03:08	12°♑14'52	
max. Earth dist.	9312 Jan 07 14:28	22°♑03'11	2.68138 AU
conjunction	9312 Jan 11 14:52	24°♑36'13	-0°10'14
minimum elong	9312 Jan 11 14:34	24°♑35'44	0°09'57
behind sun begin	9312 Jan 10 23:58	24°♑12'33	
behind sun end	9312 Jan 12 05:11	24°♑58'55	
	9312 Jan 20 02:37	0°♒	
morning rise	9312 Feb 24 02:34	22°♒23'26	
	9312 Mar 06 21:31	0°♓	
	9312 Apr 21 17:52	0°♈	

	9312 Jun 05 12:14	0°♉	
	9312 Jul 19 06:20	0°♊	
	9312 Aug 31 09:07	0°♋	
	9312 Oct 14 03:42	0°♌	
	9312 Dec 02 22:30	0°♍	
asc. node	9312 Dec 04 21:40	0°♍58'42	
retrograde	9313 Jan 20 08:08	14°♍05'19	
min. Earth dist.	9313 Feb 15 08:16	9°♍32'22	0.41052 AU
greatest brilliancy	9313 Feb 21 15:44	7°♍33'11	-2.7m
opposition	9313 Feb 23 01:44	7°♍06'06	4°54'18
direct	9313 Mar 25 23:12	1°♍18'20	
	9313 Jun 15 17:27	0°♎	
	9313 Aug 07 06:37	0°♏	
	9313 Sep 26 03:49	0°♐	
desc. node	9313 Nov 09 02:50	26°♐55'30	
	9313 Nov 14 02:17	0°♑	
evening set	9314 Jan 01 14:58	0°♒22'11	
	9314 Jan 01 00:58	0°♒	
max. Earth dist.	9314 Jan 29 09:39	18°♒09'15	2.64442 AU
conjunction	9314 Feb 15 06:47	29°♒08'26	-0°47'18
minimum elong	9314 Feb 15 05:40	29°♒06'36	0°47'07
	9314 Feb 16 14:14	0°♓	
morning rise	9314 Apr 01 13:33	29°♓24'06	
	9314 Apr 02 10:36	0°♈	
	9314 May 15 12:09	0°♉	
	9314 Jun 25 22:31	0°♊	
	9314 Aug 05 02:27	0°♋	
	9314 Sep 13 15:25	0°♌	
asc. node	9314 Oct 22 18:54	29°♌21'41	
	9314 Oct 23 15:44	0°♍	
	9314 Dec 05 03:33	0°♎	
	9315 Jan 25 17:46	0°♏	
retrograde	9315 Mar 12 00:07	11°♏57'54	
min. Earth dist.	9315 Apr 12 12:29	5°♏12'32	0.54627 AU
greatest brilliancy	9315 Apr 18 12:00	2°♏55'10	-1.9m
opposition	9315 Apr 19 17:37	2°♏26'46	5°00'04
	9315 Apr 26 08:09	30°℞♎	
direct	9315 May 25 12:47	24°♎29'00	
	9315 Jun 26 14:33	0°♏	
	9315 Sep 01 12:18	0°♐	
desc. node	9315 Sep 27 04:45	14°♐06'05	
	9315 Oct 24 19:14	0°♑	
	9315 Dec 13 09:06	0°♒	
	9316 Jan 29 07:38	0°♓	
evening set	9316 Feb 07 20:52	6°♓18'24	
max. Earth dist.	9316 Feb 25 08:58	18°♓03'10	2.55520 AU
	9316 Mar 13 19:21	0°♈	
conjunction	9316 Mar 26 18:27	9°♈02'58	-1°07'31
minimum elong	9316 Mar 26 18:09	9°♈02'26	1°07'32
	9316 Apr 25 00:56	0°♉	
morning rise	9316 May 18 07:50	17°♉09'46	
	9316 Jun 04 09:32	0°♊	
	9316 Jul 13 10:34	0°♋	
	9316 Aug 20 21:16	0°♌	
asc. node	9316 Sep 08 14:07	14°♌33'27	
	9316 Sep 28 14:58	0°♍	
	9316 Nov 07 17:31	0°♎	
	9316 Dec 20 17:46	0°♏	
	9317 Feb 08 09:04	0°♐	
retrograde	9317 Apr 18 02:53	22°♐11'48	
min. Earth dist.	9317 May 24 23:15	13°♐37'36	0.64568 AU
opposition	9317 May 28 12:59	12°♐12'25	2°38'57
greatest brilliancy	9317 May 28 05:23	12°♐19'58	-1.4m
direct	9317 Jul 06 19:20	3°♐00'31	
desc. node	9317 Aug 14 07:27	10°♐21'59	

	9317 Sep 28 15:38	0°♑	
	9317 Nov 21 23:29	0°♒	
	9318 Jan 09 07:54	0°♓	
	9318 Feb 23 00:40	0°♈	
evening set	9318 Mar 23 08:37	20°♈05'42	
	9318 Apr 05 22:11	0°♉	
max. Earth dist.	9318 Apr 07 09:56	1°♉05'53	2.42549 AU
	9318 May 15 17:33	0°♊	
conjunction	9318 May 19 20:09	3°♊09'53	-0°44'58
minimum elong	9318 May 19 22:54	3°♊15'11	0°45'12
	9318 Jun 23 05:09	0°♋	
morning rise	9318 Jul 27 20:12	27°♋20'36	
asc. node	9318 Jul 27 11:06	27°♋02'40	
	9318 Jul 31 05:00	0°♌	
	9318 Sep 07 14:11	0°♍	
	9318 Oct 17 05:46	0°♎	
	9318 Nov 28 01:05	0°♏	
	9319 Jan 12 03:45	0°♐	
	9319 Mar 04 09:33	0°♑	
retrograde	9319 May 22 08:29	25°♑56'15	
opposition	9319 Jul 01 20:31	16°♑14'02	0°01'02
greatest brilliancy	9319 Jul 01 20:37	16°♑13'56	-1.3m
min. Earth dist.	9319 Jul 02 01:57	16°♑08'40	0.68205 AU
desc. node	9319 Jul 02 08:25	16°♑02'16	
direct	9319 Aug 12 01:07	6°♑23'08	
	9319 Oct 27 04:25	0°♒	
	9319 Dec 19 07:45	0°♓	
	9320 Feb 03 06:34	0°♈	
	9320 Mar 16 08:46	0°♉	
	9320 Apr 25 00:09	0°♊	
evening set	9320 May 23 00:23	21°♊54'03	
	9320 Jun 02 06:25	0°♋	
asc. node	9320 Jun 13 08:55	8°♋48'00	
	9320 Jul 10 03:11	0°♌	
conjunction	9320 Aug 02 00:43	17°♌59'05	0°34'10
minimum elong	9320 Aug 01 21:30	17°♌52'48	0°33'54
	9320 Aug 17 12:32	0°♍	
max. Earth dist.	9320 Sep 24 14:30	28°♍47'10	2.41053 AU
	9320 Sep 26 05:54	0°♎	
morning rise	9320 Oct 09 13:10	9°♎44'44	
	9320 Nov 06 22:51	0°♏	
	9320 Dec 21 03:51	0°♐	
	9321 Feb 06 12:28	0°♑	
	9321 Mar 31 04:32	0°♒	
desc. node	9321 May 19 06:19	21°♒47'41	
retrograde	9321 Jun 25 20:18	28°♒52'41	
opposition	9321 Aug 04 03:46	19°♒50'57	-2°35'36
greatest brilliancy	9321 Aug 04 11:30	19°♒43'26	-1.4m
min. Earth dist.	9321 Aug 08 04:20	18°♒17'12	0.65257 AU
direct	9321 Sep 14 18:14	9°♒48'05	
	9321 Nov 20 12:22	0°♓	
	9322 Jan 10 19:54	0°♈	
	9322 Feb 23 07:59	0°♉	
	9322 Apr 04 09:23	0°♊	
asc. node	9322 May 01 08:54	20°♊59'44	
	9322 May 12 19:30	0°♋	
	9322 Jun 19 20:31	0°♌	
	9322 Jul 28 12:57	0°♍	
evening set	9322 Aug 06 03:51	6°♍33'13	
	9322 Sep 06 15:51	0°♎	
conjunction	9322 Oct 07 00:19	21°♎47'39	1°06'37
minimum elong	9322 Oct 07 00:32	21°♎48'02	1°06'42
	9322 Oct 18 17:32	0°♏	
max. Earth dist.	9322 Nov 10 04:17	15°♏24'28	2.54720 AU

morning rise	9322 Nov 29 21:38	28°♏37'51	
	9322 Dec 01 23:14	0°♐	
	9323 Jan 17 08:42	0°♑	
	9323 Mar 07 01:43	0°♒	
desc. node	9323 Apr 06 02:16	17°♒34'24	
	9323 Apr 28 10:47	0°♓	
	9323 Jul 03 13:41	0°♈	
retrograde	9323 Aug 07 05:53	6°♈08'18	
	9323 Sep 08 03:36	30°℞♓	
opposition	9323 Sep 12 22:06	28°♓16'38	-4°56'06
greatest brilliancy	9323 Sep 14 04:44	27°♓48'22	-1.8m
min. Earth dist.	9323 Sep 20 12:39	25°♓28'42	0.55868 AU
direct	9323 Oct 22 21:47	18°♓48'30	
	9323 Dec 06 16:50	0°♈	
	9324 Jan 28 11:46	0°♉	
	9324 Mar 10 23:41	0°♊	
asc. node	9324 Mar 18 11:49	5°♊35'29	
	9324 Apr 19 12:39	0°♋	
	9324 May 28 08:57	0°♌	
	9324 Jul 06 20:11	0°♍	
	9324 Aug 16 18:38	0°♎	
	9324 Sep 28 14:37	0°♏	
evening set	9324 Oct 01 13:55	2°♏01'49	
	9324 Nov 12 08:50	0°♐	
conjunction	9324 Nov 21 08:43	5°♐53'42	0°44'37
minimum elong	9324 Nov 21 10:00	5°♐55'48	0°44'53
max. Earth dist.	9324 Dec 06 22:39	16°♐00'52	2.64110 AU
	9324 Dec 28 17:21	0°♑	
morning rise	9325 Jan 06 20:49	5°♑49'21	
	9325 Feb 14 05:35	0°♒	
desc. node	9325 Feb 20 21:24	4°♒09'31	
	9325 Apr 03 16:22	0°♓	
	9325 May 23 12:44	0°♈	
	9325 Jul 16 05:20	0°♉	
retrograde	9325 Oct 05 02:48	26°♉50'55	
opposition	9325 Nov 06 02:22	20°♉59'49	-5°11'15
greatest brilliancy	9325 Nov 07 17:06	20°♉29'40	-2.6m
min. Earth dist.	9325 Nov 13 23:47	18°♉33'38	0.42189 AU
direct	9325 Dec 10 14:04	14°♉00'33	
	9326 Jan 31 22:47	0°♊	
asc. node	9326 Feb 03 13:45	1°♊24'05	
	9326 Mar 21 05:19	0°♋	
	9326 May 02 17:45	0°♌	
	9326 Jun 13 15:19	0°♍	
	9326 Jul 26 11:39	0°♎	
	9326 Sep 08 20:03	0°♏	
	9326 Oct 24 16:14	0°♐	
evening set	9326 Nov 13 02:43	12°♐29'49	
	9326 Dec 10 13:17	0°♑	
conjunction	9326 Dec 28 22:03	11°♑39'48	0°05'42
minimum elong	9326 Dec 28 22:15	11°♑40'07	0°06'00
behind sun begin	9326 Dec 28 04:49	11°♑12'29	
behind sun end	9326 Dec 29 15:40	12°♑07'45	
max. Earth dist.	9326 Dec 29 21:06	12°♑16'22	2.68081 AU
desc. node	9327 Jan 08 16:54	18°♑30'20	
	9327 Jan 26 19:34	0°♒	
morning rise	9327 Feb 10 15:07	9°♒24'56	
	9327 Mar 14 20:57	0°♓	
	9327 Apr 30 09:16	0°♈	
	9327 Jun 15 07:44	0°♉	
	9327 Jul 30 22:39	0°♊	
	9327 Sep 15 06:20	0°♋	
	9327 Nov 06 08:28	0°♌	
asc. node	9327 Dec 22 13:38	13°♌46'14	
retrograde	9327 Dec 25 10:37	13°♌49'37	
min. Earth dist.	9328 Jan 21 02:44	9°♌29'24	0.37349 AU
opposition	9328 Jan 25 11:18	8°♌16'55	2°32'20
greatest brilliancy	9328 Jan 24 23:24	8°♌25'10	-3.0m
direct	9328 Feb 23 18:18	3°♌17'15	
	9328 May 09 16:36	0°♍	
	9328 Jun 29 12:35	0°♎	
	9328 Aug 16 21:32	0°♏	
	9328 Oct 04 01:12	0°♐	
	9328 Nov 21 03:51	0°♑	
desc. node	9328 Nov 25 15:48	2°♑48'51	
evening set	9328 Dec 18 17:56	17°♑18'59	
	9329 Jan 07 18:52	0°♒	
max. Earth dist.	9329 Jan 20 10:55	8°♒04'40	2.66533 AU
conjunction	9329 Feb 01 03:56	15°♒35'41	-0°34'05
minimum elong	9329 Feb 01 03:01	15°♒34'12	0°33'51
	9329 Feb 23 09:01	0°♓	
morning rise	9329 Mar 17 07:07	14°♓26'03	
	9329 Apr 09 12:53	0°♈	
	9329 May 23 03:20	0°♉	
	9329 Jul 04 06:01	0°♊	
	9329 Aug 14 04:25	0°♋	
	9329 Sep 23 14:37	0°♌	
	9329 Nov 03 23:00	0°♍	
asc. node	9329 Nov 08 12:17	3°♍11'07	
	9329 Dec 19 23:27	0°♎	
retrograde	9330 Feb 22 11:23	22°♎37'46	
min. Earth dist.	9330 Mar 23 14:06	16°♎46'04	0.49383 AU
greatest brilliancy	9330 Mar 30 05:36	14°♎20'16	-2.2m
opposition	9330 Mar 31 19:42	13°♎45'16	5°32'54
direct	9330 May 04 18:38	6°♎31'15	
	9330 Jul 18 03:52	0°♏	
	9330 Sep 11 16:16	0°♐	
desc. node	9330 Oct 13 17:50	18°♐41'03	
	9330 Nov 01 16:18	0°♑	
	9330 Dec 20 10:47	0°♒	
evening set	9331 Jan 23 21:44	21°♒59'33	
	9331 Feb 05 04:05	0°♓	
max. Earth dist.	9331 Feb 14 01:02	5°♓51'29	2.59597 AU
conjunction	9331 Mar 11 00:13	22°♓38'13	-1°02'55
minimum elong	9331 Mar 10 23:18	22°♓36'40	1°02'51
	9331 Mar 21 18:05	0°♈	
morning rise	9331 Apr 28 18:41	26°♈45'57	
	9331 May 03 06:27	0°♉	
	9331 Jun 12 23:40	0°♊	
	9331 Jul 22 09:21	0°♋	
	9331 Aug 30 03:39	0°♌	
asc. node	9331 Sep 26 09:03	20°♌59'34	
	9331 Oct 08 04:37	0°♍	
	9331 Nov 17 18:36	0°♎	
	9332 Jan 01 02:23	0°♏	
	9332 Feb 26 23:14	0°♐	
retrograde	9332 Apr 04 02:49	7°♐56'36	
min. Earth dist.	9332 May 09 01:21	29°♏59'55	0.61382 AU
	9332 May 09 01:15	30°℞♏	
greatest brilliancy	9332 May 13 11:50	28°♏14'48	-1.6m
opposition	9332 May 14 02:46	28°♏00'02	3°38'05
direct	9332 Jun 21 05:21	19°♏11'44	
	9332 Aug 07 23:23	0°♐	
desc. node	9332 Aug 30 20:08	9°♐51'47	
	9332 Oct 09 03:13	0°♑	
	9332 Nov 29 22:18	0°♒	
	9333 Jan 16 13:42	0°♓	
	9333 Mar 02 03:00	0°♈	
evening set	9333 Mar 04 15:33	1°♈45'18	
max. Earth dist.	9333 Mar 18 11:05	11°♈28'30	2.47892 AU

	9333 Apr 13 02:50	0°♉		
conjunction	9333 Apr 26 08:04	9°♉46'30	-1°01'14	
minimum elong	9333 Apr 26 09:40	9°♉49'30	1°01'25	
	9333 May 23 02:31	0°♊		
morning rise	9333 Jun 27 04:17	27°♊11'05		
	9333 Jun 30 18:31	0°♋		
	9333 Aug 07 21:41	0°♌		
greatest brilliancy	9333 Aug 10 08:17	1°♌55'13	1.2m	
asc. node	9333 Aug 13 03:38	4°♌07'31		
	9333 Sep 15 08:47	0°♍		
	9333 Oct 25 02:14	0°♎		
	9333 Dec 06 03:12	0°♏		
	9334 Jan 21 03:34	0°♐		
	9334 Mar 17 22:25	0°♑		
retrograde	9334 May 09 03:33	13°♑21'48		
opposition	9334 Jun 18 18:38	3°♑29'46	1°02'20	
min. Earth dist.	9334 Jun 17 12:27	3°♑59'45	0.67568 AU	
greatest brilliancy	9334 Jun 18 17:46	3°♑30'38	-1.3m	
	9334 Jun 27 20:00	30°℞♐		
desc. node	9334 Jul 18 21:27	24°♐32'09		
direct	9334 Jul 29 09:16	23°♐50'54		
	9334 Sep 02 06:25	0°♑		
	9334 Nov 07 01:53	0°♒		
	9334 Dec 27 14:21	0°♓		
	9335 Feb 10 21:28	0°♈		
	9335 Mar 24 20:29	0°♉		
evening set	9335 Apr 27 03:53	25°♉06'09		
	9335 May 03 12:28	0°♊		
	9335 Jun 10 19:59	0°♋		
asc. node	9335 Jul 01 01:36	16°♋01'51		
conjunction	9335 Jul 03 05:35	17°♋44'51	0°01'36	
minimum elong	9335 Jul 03 05:23	17°♋44'27	0°01'17	
behind sun begin	9335 Jul 01 23:01	16°♋44'19		
behind sun end	9335 Jul 04 11:44	18°♋44'35		
	9335 Jul 18 17:01	0°♌		
max. Earth dist.	9335 Jul 21 16:33	2°♌21'17	2.36572 AU	
	9335 Aug 26 01:08	0°♍		
morning rise	9335 Sep 14 07:26	14°♍44'16		
	9335 Oct 04 16:22	0°♎		
	9335 Nov 15 08:03	0°♏		
	9335 Dec 29 16:52	0°♐		
	9336 Feb 15 22:12	0°♑		
	9336 Apr 12 15:19	0°♒		
desc. node	9336 Jun 04 20:32	15°♒48'14		
retrograde	9336 Jun 11 14:09	16°♒04'32		
opposition	9336 Jul 21 12:41	6°♒44'17	-1°35'39	
greatest brilliancy	9336 Jul 21 15:23	6°♒41'38	-1.3m	
min. Earth dist.	9336 Jul 24 01:37	5°♒44'34	0.67209 AU	
	9336 Aug 09 09:30	30°℞♑		
direct	9336 Sep 01 04:11	26°♑42'27		
	9336 Sep 25 14:00	0°♒		
	9336 Dec 02 15:17	0°♓		
	9337 Jan 19 20:16	0°♈		
	9337 Mar 03 14:05	0°♉		
	9337 Apr 12 09:33	0°♊		
asc. node	9337 May 18 02:04	27°♊55'51		
	9337 May 20 16:55	0°♋		
greatest brilliancy	9337 Jun 05 17:48	12°♋41'53	1.2m	
	9337 Jun 27 15:03	0°♌		
evening set	9337 Jul 08 15:04	8°♌38'53		
	9337 Aug 05 03:18	0°♍		
conjunction	9337 Sep 14 04:56	0°♎07'20	1°03'23	
minimum elong	9337 Sep 14 03:21	0°♎04'26	1°03'21	
	9337 Sep 14 00:56	0°♎		
	9337 Oct 25 21:30	0°♏		
max. Earth dist.	9337 Oct 27 06:22	0°♏57'20	2.49683 AU	
morning rise	9337 Nov 12 01:33	11°♏51'46		
	9337 Dec 09 00:36	0°♐		
	9338 Jan 24 14:43	0°♑		
	9338 Mar 15 06:44	0°♒		
desc. node	9338 Apr 22 16:47	21°♒12'50		
	9338 May 10 07:42	0°♓		
retrograde	9338 Jul 20 10:53	20°♓56'06		
opposition	9338 Aug 27 09:03	12°♓32'21	-4°06'10	
greatest brilliancy	9338 Aug 28 05:29	12°♓12'59	-1.6m	
min. Earth dist.	9338 Sep 02 15:59	10°♓09'31	0.60259 AU	
direct	9338 Oct 07 07:27	2°♓42'14		
	9338 Dec 23 17:36	0°♈		
	9339 Feb 08 09:00	0°♉		
	9339 Mar 21 10:50	0°♊		
asc. node	9339 Apr 05 02:58	11°♊11'44		
	9339 Apr 29 08:48	0°♋		
	9339 Jun 06 18:49	0°♌		
	9339 Jul 15 20:19	0°♍		
	9339 Aug 25 08:59	0°♎		
evening set	9339 Sep 12 13:58	13°♎02'42		
	9339 Oct 06 19:51	0°♏		
conjunction	9339 Nov 05 19:52	20°♏22'50	0°56'32	
minimum elong	9339 Nov 05 21:12	20°♏25'04	0°56'45	
	9339 Nov 20 07:12	0°♐		
max. Earth dist.	9339 Nov 28 02:05	5°♐07'29	2.61038 AU	
morning rise	9339 Dec 24 12:45	22°♐17'28		
	9340 Jan 05 13:48	0°♑		
	9340 Feb 22 09:12	0°♒		
desc. node	9340 Mar 09 11:53	9°♒54'08		
	9340 Apr 11 20:22	0°♓		
	9340 Jun 03 12:38	0°♈		
	9340 Aug 10 01:14	0°♉		
retrograde	9340 Sep 08 19:07	4°♉43'16		
	9340 Oct 06 14:55	30°℞♈		
opposition	9340 Oct 12 18:28	27°♈59'06	-5°39'44	
greatest brilliancy	9340 Oct 14 13:46	27°♈22'13	-2.2m	
min. Earth dist.	9340 Oct 21 12:15	25°♈01'16	0.47610 AU	
direct	9340 Nov 19 01:33	19°♈42'46		
	9340 Dec 30 06:41	0°♉		
	9341 Feb 19 22:23	0°♊		
asc. node	9341 Feb 20 04:19	0°♊09'59		
	9341 Apr 03 02:18	0°♋		
	9341 May 13 09:15	0°♌		
	9341 Jun 22 22:30	0°♍		
	9341 Aug 03 19:08	0°♎		
	9341 Sep 16 09:41	0°♏		
evening set	9341 Oct 28 15:06	27°♏59'05		
	9341 Oct 31 17:17	0°♐		
conjunction	9341 Dec 14 20:46	28°♐26'11	0°21'30	
minimum elong	9341 Dec 14 21:27	28°♐27'17	0°21'48	
	9341 Dec 17 07:35	0°♑		
max. Earth dist.	9341 Dec 21 04:05	2°♑27'24	2.67176 AU	
desc. node	9342 Jan 25 07:55	24°♑46'19		
morning rise	9342 Jan 28 06:33	26°♑38'05		
	9342 Feb 02 14:12	0°♒		
	9342 Mar 22 00:56	0°♓		
	9342 May 08 11:28	0°♈		
	9342 Jun 25 04:31	0°♉		
	9342 Aug 13 07:23	0°♊		
	9342 Oct 08 18:44	0°♋		
retrograde	9342 Nov 23 17:48	11°♋27'09		
opposition	9342 Dec 23 11:46	6°♋32'35	-1°13'39	
greatest brilliancy	9342 Dec 23 15:24	6°♋30'09	-3.1m	

min. Earth dist.	9342 Dec 25 01:27	6°♋07'29	0.36731 AU
asc. node	9343 Jan 08 06:29	2°♋48'25	
direct	9343 Jan 22 10:23	1°♋30'13	
	9343 Apr 08 15:35	0°♌	
	9343 May 26 12:01	0°♍	
	9343 Jul 11 08:38	0°♎	
	9343 Aug 26 13:34	0°♏	
	9343 Oct 12 13:35	0°♐	
	9343 Nov 29 01:52	0°♑	
evening set	9343 Dec 05 19:32	4°♑14'50	
desc. node	9343 Dec 13 05:11	8°♑55'06	
max. Earth dist.	9344 Jan 12 15:25	28°♑11'06	2.67796 AU
	9344 Jan 15 11:53	0°♒	
conjunction	9344 Jan 19 09:59	2°♒29'48	-0°19'19
minimum elong	9344 Jan 19 09:25	2°♒28'54	0°19'03
morning rise	9344 Mar 02 23:58	0°♓31'13	
	9344 Mar 02 04:44	0°♓	
	9344 Apr 16 18:33	0°♈	
	9344 May 31 01:41	0°♉	
	9344 Jul 13 03:02	0°♊	
	9344 Aug 24 06:04	0°♋	
	9344 Oct 05 07:42	0°♌	
	9344 Nov 18 22:39	0°♍	
asc. node	9344 Nov 25 05:07	3°♍51'10	
retrograde	9345 Feb 02 06:45	29°♍35'09	
min. Earth dist.	9345 Mar 01 04:31	24°♍37'18	0.43897 AU
greatest brilliancy	9345 Mar 07 21:34	22°♍21'37	-2.5m
opposition	9345 Mar 09 13:10	21°♍47'58	5°28'16
direct	9345 Apr 10 11:38	15°♍27'43	
	9345 Jun 03 17:22	0°♎	
	9345 Jul 31 06:44	0°♏	
	9345 Sep 20 14:23	0°♐	
desc. node	9345 Oct 30 06:02	23°♐56'43	
	9345 Nov 09 03:31	0°♑	
	9345 Dec 27 08:39	0°♒	
evening set	9346 Jan 09 14:09	8°♒24'03	
max. Earth dist.	9346 Feb 03 21:10	24°♒42'28	2.62947 AU
	9346 Feb 11 23:27	0°♓	
conjunction	9346 Feb 23 14:15	7°♓39'51	-0°53'58
minimum elong	9346 Feb 23 13:07	7°♓37'58	0°53'50
	9346 Mar 28 17:44	0°♈	
morning rise	9346 Apr 10 20:26	9°♈02'17	
	9346 May 10 14:39	0°♉	
	9346 Jun 20 18:29	0°♊	
	9346 Jul 30 14:59	0°♋	
	9346 Sep 07 19:47	0°♌	
asc. node	9346 Oct 13 02:10	26°♌48'13	
	9346 Oct 17 08:37	0°♍	
	9346 Nov 27 20:29	0°♎	
	9347 Jan 14 03:41	0°♏	
retrograde	9347 Mar 21 04:10	22°♏17'12	
min. Earth dist.	9347 Apr 22 23:23	15°♏04'18	0.57287 AU
greatest brilliancy	9347 Apr 28 11:00	12°♏56'29	-1.8m
opposition	9347 Apr 29 11:02	12°♏33'04	4°32'52
direct	9347 Jun 05 04:11	4°♏14'48	
	9347 Aug 24 17:29	0°♐	
desc. node	9347 Sep 17 08:24	12°♐15'18	
	9347 Oct 19 03:47	0°♑	
	9347 Dec 08 10:07	0°♒	
	9348 Jan 24 14:33	0°♓	
evening set	9348 Feb 16 19:29	15°♓25'18	
max. Earth dist.	9348 Mar 03 14:39	26°♓11'03	2.52987 AU
	9348 Mar 09 03:16	0°♈	
conjunction	9348 Apr 06 01:44	19°♈42'02	-1°07'31
minimum elong	9348 Apr 06 02:01	19°♈42'33	1°07'36
	9348 Apr 20 07:26	0°♉	
	9348 May 30 13:12	0°♊	
morning rise	9348 May 31 10:09	0°♊39'50	
	9348 Jul 08 11:01	0°♋	
	9348 Aug 15 18:39	0°♌	
asc. node	9348 Aug 29 23:02	11°♌05'23	
	9348 Sep 23 08:54	0°♍	
	9348 Nov 02 06:07	0°♎	
	9348 Dec 14 17:48	0°♏	
	9349 Jan 31 10:37	0°♐	
	9349 Apr 17 15:13	0°♑	
retrograde	9349 Apr 25 21:26	0°♑25'56	
	9349 May 03 23:01	30°℞♐	
min. Earth dist.	9349 Jun 02 17:00	21°♐33'09	0.65916 AU
opposition	9349 Jun 05 10:45	20°♐27'46	2°03'30
greatest brilliancy	9349 Jun 05 06:18	20°♐32'11	-1.4m
direct	9349 Jul 15 05:59	11°♐04'49	
desc. node	9349 Aug 04 10:04	13°♐19'30	
	9349 Sep 20 09:06	0°♑	
	9349 Nov 16 06:52	0°♒	
	9350 Jan 04 07:31	0°♓	
	9350 Feb 18 05:20	0°♈	
	9350 Apr 01 03:50	0°♉	
evening set	9350 Apr 04 01:01	2°♉07'41	
max. Earth dist.	9350 Apr 24 04:40	17°♉12'54	2.39685 AU
	9350 May 10 22:19	0°♊	
conjunction	9350 Jun 03 18:56	18°♊32'36	-0°30'39
minimum elong	9350 Jun 03 21:30	18°♊37'39	0°30'54
	9350 Jun 18 08:37	0°♋	
asc. node	9350 Jul 17 19:07	23°♋16'25	
	9350 Jul 26 07:27	0°♌	
morning rise	9350 Aug 14 19:03	15°♌19'30	
	9350 Sep 02 15:45	0°♍	
	9350 Oct 12 06:10	0°♎	
	9350 Nov 22 22:29	0°♏	
	9351 Jan 06 15:13	0°♐	
	9351 Feb 25 07:58	0°♑	
	9351 May 04 11:26	0°♒	
retrograde	9351 May 29 23:27	3°♒34'39	
desc. node	9351 Jun 22 10:05	0°♒04'22	
	9351 Jun 22 15:59	30°℞♑	
opposition	9351 Jul 09 08:09	23°♑59'21	-0°34'55
greatest brilliancy	9351 Jul 09 08:25	23°♑59'05	-1.3m
min. Earth dist.	9351 Jul 10 09:27	23°♑34'23	0.68130 AU
direct	9351 Aug 19 18:15	14°♑03'17	
	9351 Oct 18 10:38	0°♒	
	9351 Dec 13 11:22	0°♓	
	9352 Jan 29 02:25	0°♈	
	9352 Mar 11 09:55	0°♉	
	9352 Apr 20 02:41	0°♊	
	9352 May 28 09:07	0°♋	
asc. node	9352 Jun 03 17:16	5°♋01'15	
evening set	9352 Jun 08 12:02	8°♋48'41	
	9352 Jul 05 05:59	0°♌	
	9352 Aug 12 15:43	0°♍	
conjunction	9352 Aug 18 14:18	4°♍33'48	0°48'33
minimum elong	9352 Aug 18 10:56	4°♍27'21	0°48'21
	9352 Sep 21 09:42	0°♎	
max. Earth dist.	9352 Oct 08 22:28	12°♎48'06	2.44176 AU
morning rise	9352 Oct 22 14:20	22°♎34'58	
	9352 Nov 02 02:53	0°♏	
	9352 Dec 16 05:32	0°♐	
	9353 Feb 01 04:38	0°♑	
	9353 Mar 24 09:27	0°♒	

desc. node	9353 May 09 08:13	22°♒48'26	
	9353 May 28 02:37	0°♓	
retrograde	9353 Jul 04 09:46	6°♓58'22	
	9353 Aug 07 10:09	30°℞♒	
opposition	9353 Aug 12 07:18	28°♒08'47	-3°09'52
greatest brilliancy	9353 Aug 12 18:59	27°♒57'30	-1.5m
min. Earth dist.	9353 Aug 17 03:39	26°♒16'39	0.63754 AU
direct	9353 Sep 22 18:38	18°♒08'04	
	9353 Nov 10 03:35	0°♓	
	9354 Jan 04 10:19	0°♈	
	9354 Feb 17 18:41	0°♉	
	9354 Mar 30 03:21	0°♊	
asc. node	9354 Apr 21 19:03	17°♊31'41	
	9354 May 07 16:52	0°♋	
	9354 Jun 14 20:14	0°♌	
	9354 Jul 23 14:45	0°♍	
evening set	9354 Aug 20 15:34	21°♍03'14	
	9354 Sep 01 19:49	0°♎	
	9354 Oct 13 23:34	0°♏	
conjunction	9354 Oct 18 11:40	3°♏07'10	1°04'36
minimum elong	9354 Oct 18 12:31	3°♏08'39	1°04'44
max. Earth dist.	9354 Nov 17 02:30	23°♏14'54	2.57184 AU
	9354 Nov 27 05:58	0°♐	
morning rise	9354 Dec 09 05:27	7°♐53'05	
	9355 Jan 12 13:02	0°♑	
	9355 Mar 01 19:49	0°♒	
desc. node	9355 Mar 27 03:50	15°♒10'10	
	9355 Apr 21 20:00	0°♓	
	9355 Jun 19 02:59	0°♈	
retrograde	9355 Aug 18 12:13	16°♈06'57	
opposition	9355 Sep 23 07:29	8°♈36'59	-5°19'04
greatest brilliancy	9355 Sep 24 19:50	8°♈04'10	-1.9m
min. Earth dist.	9355 Oct 01 12:14	5°♈39'59	0.53063 AU
	9355 Oct 23 19:26	30°℞♓	
direct	9355 Nov 01 13:01	29°♓28'25	
	9355 Nov 10 08:45	0°♈	
	9356 Jan 20 05:44	0°♉	
	9356 Mar 04 09:52	0°♊	
asc. node	9356 Mar 08 20:26	3°♊13'54	
	9356 Apr 13 14:05	0°♋	
	9356 May 22 19:33	0°♌	
	9356 Jul 01 13:46	0°♍	
	9356 Aug 11 18:05	0°♎	
	9356 Sep 23 19:03	0°♏	
evening set	9356 Oct 11 20:27	12°♏12'25	
	9356 Nov 07 16:35	0°♐	
conjunction	9356 Nov 30 03:30	14°♐37'12	0°36'32
minimum elong	9356 Nov 30 04:37	14°♐39'00	0°36'50
max. Earth dist.	9356 Dec 12 08:22	22°♐28'52	2.65433 AU
	9356 Dec 24 02:08	0°♑	
morning rise	9357 Jan 14 17:53	13°♑46'10	
	9357 Feb 09 11:23	0°♒	
desc. node	9357 Feb 10 22:49	0°♒55'39	
	9357 Mar 29 11:44	0°♓	
	9357 May 17 06:32	0°♈	
	9357 Jul 06 23:39	0°♉	
	9357 Sep 03 14:32	0°♊	
retrograde	9357 Oct 22 01:19	11°♊50'38	
opposition	9357 Nov 21 22:17	6°♊28'54	-4°16'09
greatest brilliancy	9357 Nov 23 02:34	6°♊08'23	-2.8m
min. Earth dist.	9357 Nov 28 09:42	4°♊37'01	0.39561 AU
direct	9357 Dec 24 12:51	0°♊19'16	
asc. node	9358 Jan 24 21:26	6°♊39'19	
	9358 Mar 10 19:04	0°♋	
	9358 Apr 25 00:47	0°♌	
	9358 Jun 07 04:38	0°♍	
	9358 Jul 20 19:19	0°♎	
	9358 Sep 03 16:13	0°♏	
	9358 Oct 19 20:25	0°♐	
evening set	9358 Nov 21 12:54	20°♐52'17	
	9358 Dec 05 21:54	0°♑	
desc. node	9358 Dec 29 19:23	15°♑08'53	
max. Earth dist.	9359 Jan 03 21:34	18°♑22'38	2.68222 AU
conjunction	9359 Jan 05 18:24	19°♑33'44	-0°03'42
minimum elong	9359 Jan 05 18:19	19°♑33'36	0°03'24
behind sun begin	9359 Jan 05 00:11	19°♑04'51	
behind sun end	9359 Jan 06 12:27	20°♑02'20	
	9359 Jan 22 05:00	0°♒	
morning rise	9359 Feb 18 07:03	17°♒16'20	
	9359 Mar 10 02:48	0°♓	
	9359 Apr 25 06:19	0°♈	
	9359 Jun 09 12:38	0°♉	
	9359 Jul 24 00:20	0°♊	
	9359 Sep 06 06:03	0°♋	
	9359 Oct 22 04:44	0°♌	
asc. node	9359 Dec 12 23:15	26°♌32'36	
	9359 Dec 25 01:29	0°♍	
retrograde	9360 Jan 10 06:19	1°♍49'11	
	9360 Jan 26 07:45	30°℞♌	
min. Earth dist.	9360 Feb 05 02:45	27°♌28'36	0.39091 AU
opposition	9360 Feb 11 17:05	25°♌31'04	4°07'28
greatest brilliancy	9360 Feb 10 15:21	25°♌50'19	-2.8m
direct	9360 Mar 12 18:53	20°♌08'17	
	9360 Apr 24 00:39	0°♍	
	9360 Jun 21 09:36	0°♎	
	9360 Aug 10 18:08	0°♏	
	9360 Sep 28 18:52	0°♐	
desc. node	9360 Nov 15 18:36	29°♐39'04	
	9360 Nov 16 08:04	0°♑	
evening set	9360 Dec 26 16:21	25°♑16'08	
	9361 Jan 03 03:42	0°♒	
max. Earth dist.	9361 Jan 25 15:53	14°♒22'36	2.65485 AU
conjunction	9361 Feb 09 03:55	23°♒45'04	-0°42'03
minimum elong	9361 Feb 09 02:51	23°♒43'21	0°41'51
	9361 Feb 18 17:55	0°♓	
morning rise	9361 Mar 25 20:18	23°♓17'28	
	9361 Apr 04 18:24	0°♈	
	9361 May 18 02:20	0°♉	
	9361 Jun 28 20:22	0°♊	
	9361 Aug 08 08:17	0°♋	
	9361 Sep 17 05:38	0°♌	
	9361 Oct 27 16:27	0°♍	
asc. node	9361 Oct 29 21:10	1°♍35'25	
	9361 Dec 10 04:15	0°♎	
	9362 Feb 06 17:28	0°♏	
retrograde	9362 Mar 04 17:11	4°♏26'43	
	9362 Mar 29 16:52	30°℞♎	
min. Earth dist.	9362 Apr 04 03:16	28°♎05'08	0.52337 AU
greatest brilliancy	9362 Apr 10 11:28	25°♎42'08	-2.0m
opposition	9362 Apr 11 21:08	25°♎10'22	5°17'26
direct	9362 May 16 21:49	17°♎30'55	
	9362 Jul 06 18:39	0°♏	
	9362 Sep 05 03:42	0°♐	
desc. node	9362 Oct 03 20:21	16°♐12'41	
	9362 Oct 27 09:08	0°♑	
	9362 Dec 15 15:05	0°♒	
	9363 Jan 31 12:18	0°♓	
evening set	9363 Feb 01 08:11	0°♓32'37	
max. Earth dist.	9363 Feb 20 07:54	13°♓08'53	2.57434 AU
	9363 Mar 17 02:10	0°♈	

conjunction	9363 Mar 20 07:46	2°♈14'14	-1°06'14
minimum elong	9363 Mar 20 07:10	2°♈13'10	1°06'14
	9363 Apr 28 11:47	0°♉	
morning rise	9363 May 10 00:02	8°♉23'30	
	9363 Jun 08 00:58	0°♊	
	9363 Jul 17 06:06	0°♋	
	9363 Aug 24 20:06	0°♌	
asc. node	9363 Sep 16 16:05	17°♌42'49	
	9363 Oct 02 16:09	0°♍	
	9363 Nov 11 21:33	0°♎	
	9363 Dec 25 06:34	0°♏	
	9364 Feb 14 17:09	0°♐	
retrograde	9364 Apr 12 05:39	16°♐43'26	
min. Earth dist.	9364 May 18 06:27	8°♐24'59	0.63259 AU
opposition	9364 May 22 11:43	6°♐44'32	3°04'05
greatest brilliancy	9364 May 22 01:14	6°♐54'56	-1.5m
	9364 Jun 11 08:38	30°℞♏	
direct	9364 Jun 30 06:01	27°♏42'25	
	9364 Jul 20 13:25	0°♐	
desc. node	9364 Aug 20 22:53	10°♐00'23	
	9364 Oct 02 09:34	0°♑	
	9364 Nov 24 14:27	0°♒	
	9365 Jan 11 16:43	0°♓	
	9365 Feb 25 09:28	0°♈	
evening set	9365 Mar 14 23:22	12°♈20'52	
max. Earth dist.	9365 Mar 28 17:56	22°♈14'14	2.44957 AU
	9365 Apr 08 09:21	0°♉	
conjunction	9365 May 09 02:55	22°♉58'46	-0°53'21
minimum elong	9365 May 09 05:16	23°♉03'16	0°53'34
	9365 May 18 07:35	0°♊	
	9365 Jun 25 21:29	0°♋	
morning rise	9365 Jul 14 00:15	14°♋16'13	
	9365 Aug 02 22:43	0°♌	
asc. node	9365 Aug 03 12:27	0°♌27'03	
	9365 Sep 10 08:04	0°♍	
	9365 Oct 19 23:04	0°♎	
	9365 Nov 30 18:48	0°♏	
	9366 Jan 15 02:41	0°♐	
	9366 Mar 08 14:33	0°♑	
retrograde	9366 May 16 17:09	21°♑06'21	
opposition	9366 Jun 26 07:14	11°♑19'25	0°26'21
greatest brilliancy	9366 Jun 26 07:15	11°♑19'25	-1.3m
min. Earth dist.	9366 Jun 25 21:13	11°♑29'21	0.68043 AU
desc. node	9366 Jul 09 00:12	6°♑31'57	
direct	9366 Aug 06 06:04	1°♑33'18	
	9366 Oct 31 03:54	0°♒	
	9366 Dec 22 03:37	0°♓	
	9367 Feb 05 21:08	0°♈	
	9367 Mar 19 23:23	0°♉	
	9367 Apr 28 16:06	0°♊	
evening set	9367 May 11 20:00	10°♊13'31	
	9367 Jun 05 23:23	0°♋	
asc. node	9367 Jun 21 10:23	12°♋14'41	
	9367 Jul 13 20:15	0°♌	
conjunction	9367 Jul 20 14:37	5°♌20'21	0°20'50
minimum elong	9367 Jul 20 12:22	5°♌15'56	0°20'32
	9367 Aug 21 04:27	0°♍	
max. Earth dist.	9367 Sep 08 16:53	14°♍10'26	2.38681 AU
morning rise	9367 Sep 29 14:47	29°♍51'04	
	9367 Sep 29 19:37	0°♎	
	9367 Nov 10 10:25	0°♏	
	9367 Dec 24 14:49	0°♐	
	9368 Feb 10 04:59	0°♑	
	9368 Apr 04 01:44	0°♒	
desc. node	9368 May 25 22:45	20°♒32'40	
retrograde	9368 Jun 19 14:57	23°♒50'36	
opposition	9368 Jul 29 06:10	14°♒40'10	-2°10'49
greatest brilliancy	9368 Jul 29 11:26	14°♒35'02	-1.4m
min. Earth dist.	9368 Aug 01 15:18	13°♒21'03	0.66252 AU
direct	9368 Sep 08 22:08	4°♒36'54	
	9368 Nov 25 05:15	0°♓	
	9369 Jan 14 02:29	0°♈	
	9369 Feb 26 07:31	0°♉	
	9369 Apr 07 07:07	0°♊	
asc. node	9369 May 08 09:34	24°♊15'41	
	9369 May 15 16:11	0°♋	
	9369 Jun 22 15:42	0°♌	
evening set	9369 Jul 25 02:42	25°♌17'56	
	9369 Jul 31 05:35	0°♍	
	9369 Sep 09 04:57	0°♎	
conjunction	9369 Sep 27 12:59	13°♎18'25	1°06'25
minimum elong	9369 Sep 27 12:32	13°♎17'38	1°06'28
	9369 Oct 21 03:05	0°♏	
max. Earth dist.	9369 Nov 04 11:50	9°♏56'14	2.52558 AU
morning rise	9369 Nov 22 11:00	22°♏07'45	
	9369 Dec 04 06:02	0°♐	
	9370 Jan 19 15:53	0°♑	
	9370 Mar 09 16:08	0°♒	
desc. node	9370 Apr 12 18:54	19°♒34'18	
	9370 May 02 05:20	0°♓	
retrograde	9370 Jul 30 06:54	29°♓52'39	
opposition	9370 Sep 05 13:25	21°♓45'47	-4°35'54
greatest brilliancy	9370 Sep 06 15:33	21°♓21'20	-1.7m
min. Earth dist.	9370 Sep 12 14:43	19°♓07'44	0.57941 AU
direct	9370 Oct 16 01:07	12°♓05'48	
	9370 Dec 14 08:33	0°♈	
	9371 Feb 01 19:13	0°♉	
	9371 Mar 15 15:06	0°♊	
asc. node	9371 Mar 26 12:13	8°♊12'13	
	9371 Apr 23 20:45	0°♋	
	9371 Jun 01 11:39	0°♌	
	9371 Jul 10 17:25	0°♍	
	9371 Aug 20 10:00	0°♎	
evening set	9371 Sep 24 06:35	24°♎38'54	
	9371 Oct 02 00:35	0°♏	
conjunction	9371 Nov 15 10:49	29°♏54'05	0°49'57
minimum elong	9371 Nov 15 12:10	29°♏56'19	0°50'12
	9371 Nov 15 14:25	0°♐	
max. Earth dist.	9371 Dec 03 21:32	11°♐58'40	2.62854 AU
	9371 Dec 31 21:06	0°♑	
morning rise	9372 Jan 01 19:52	0°♑36'20	
	9372 Feb 17 11:27	0°♒	
desc. node	9372 Feb 28 13:45	6°♒53'22	
	9372 Apr 06 07:10	0°♓	
	9372 May 27 03:39	0°♈	
	9372 Jul 23 07:19	0°♉	
retrograde	9372 Sep 23 00:46	17°♉09'36	
opposition	9372 Oct 25 21:56	10°♉53'59	-5°31'31
greatest brilliancy	9372 Oct 27 16:33	10°♉19'13	-2.4m
min. Earth dist.	9372 Nov 03 09:59	8°♉08'56	0.44562 AU
direct	9372 Nov 30 17:41	3°♉17'16	
asc. node	9373 Feb 10 14:34	0°♊22'05	
	9373 Feb 10 00:10	0°♊	
	9373 Mar 26 16:05	0°♋	
	9373 May 06 23:20	0°♌	
	9373 Jun 17 03:39	0°♍	
	9373 Jul 29 11:01	0°♎	
	9373 Sep 11 09:46	0°♏	
	9373 Oct 26 22:59	0°♐	
evening set	9373 Nov 06 14:46	6°♐53'40	

	9373 Dec 12 16:22	0°♉	
conjunction	9373 Dec 22 23:33	6°♉33'14	0°12'16
minimum elong	9373 Dec 22 23:56	6°♉33'52	0°12'35
behind sun begin	9373 Dec 22 12:18	6°♉15'23	
behind sun end	9373 Dec 23 11:35	6°♉52'21	
max. Earth dist.	9373 Dec 26 06:56	8°♉39'20	2.67788 AU
desc. node	9374 Jan 15 08:59	21°♉24'06	
	9374 Jan 28 22:28	0°♒	
morning rise	9374 Feb 04 22:27	4°♒26'17	
	9374 Mar 17 03:46	0°♓	
	9374 May 03 01:26	0°♈	
	9374 Jun 18 16:35	0°♉	
	9374 Aug 04 13:14	0°♊	
	9374 Sep 22 13:23	0°♋	
	9374 Dec 09 00:00	0°♌	
retrograde	9374 Dec 11 23:19	0°♌03'32	
	9374 Dec 14 22:45	30°℞♋	
asc. node	9374 Dec 29 15:05	28°♋04'56	
min. Earth dist.	9375 Jan 09 06:47	25°♋27'00	0.36620 AU
opposition	9375 Jan 11 03:52	24°♋56'50	0°58'42
greatest brilliancy	9375 Jan 11 01:18	24°♋58'33	-3.1m
direct	9375 Feb 09 09:15	20°♋04'44	
	9375 Mar 22 19:55	0°♌	
	9375 May 17 15:03	0°♍	
	9375 Jul 04 16:57	0°♎	
	9375 Aug 20 23:04	0°♏	
	9375 Oct 07 12:45	0°♐	
	9375 Nov 24 08:28	0°♑	
desc. node	9375 Dec 03 07:15	5°♑37'24	
evening set	9375 Dec 13 19:44	12°♑14'35	
	9376 Jan 10 21:19	0°♒	
max. Earth dist.	9376 Jan 17 19:03	4°♒23'46	2.67207 AU
conjunction	9376 Jan 27 06:09	10°♒26'40	-0°28'08
minimum elong	9376 Jan 27 05:22	10°♒25'24	0°27'52
	9376 Feb 26 13:05	0°♓	
morning rise	9376 Mar 11 01:45	8°♓50'50	
	9376 Apr 11 22:03	0°♈	
	9376 May 25 20:12	0°♉	
	9376 Jul 07 08:57	0°♊	
	9376 Aug 17 18:51	0°♋	
	9376 Sep 27 19:20	0°♌	
	9376 Nov 09 03:10	0°♍	
asc. node	9376 Nov 15 13:57	4°♍20'35	
	9376 Dec 28 15:25	0°♎	
retrograde	9377 Feb 14 02:44	13°♎36'38	
min. Earth dist.	9377 Mar 14 03:38	8°♎10'22	0.46915 AU
greatest brilliancy	9377 Mar 20 23:02	5°♎45'47	-2.3m
opposition	9377 Mar 22 15:16	5°♎09'58	5°37'59
	9377 Apr 08 22:19	30°℞♍	
direct	9377 Apr 24 16:54	28°♍18'58	
	9377 May 11 09:01	0°♎	
	9377 Jul 23 08:48	0°♏	
	9377 Sep 14 18:22	0°♐	
desc. node	9377 Oct 20 09:09	21°♐06'35	
	9377 Nov 04 02:20	0°♑	
	9377 Dec 22 15:18	0°♒	
evening set	9378 Jan 17 17:15	16°♒35'54	
	9378 Feb 07 08:14	0°♓	
max. Earth dist.	9378 Feb 09 16:27	1°♓32'19	2.61190 AU
conjunction	9378 Mar 04 05:57	16°♓32'33	-0°59'38
minimum elong	9378 Mar 04 04:53	16°♓30'47	0°59'33
	9378 Mar 24 01:14	0°♈	
morning rise	9378 Apr 20 18:15	19°♈18'29	
	9378 May 05 18:17	0°♉	
	9378 Jun 15 17:04	0°♊	
	9378 Jul 25 07:50	0°♋	
	9378 Sep 02 06:34	0°♌	
asc. node	9378 Oct 03 11:01	23°♌55'14	
	9378 Oct 11 11:38	0°♍	
	9378 Nov 21 07:49	0°♎	
	9379 Jan 05 11:36	0°♏	
	9379 Mar 12 17:42	0°♐	
retrograde	9379 Mar 29 20:58	1°♐54'09	
	9379 Apr 15 06:16	30°℞♏	
min. Earth dist.	9379 May 02 21:11	24°♏15'54	0.59654 AU
opposition	9379 May 08 13:42	22°♏01'50	4°02'06
greatest brilliancy	9379 May 07 18:59	22°♏20'14	-1.7m
direct	9379 Jun 15 01:48	13°♏26'00	
	9379 Aug 15 11:59	0°♐	
desc. node	9379 Sep 07 11:26	10°♐54'46	
	9379 Oct 13 05:31	0°♑	
	9379 Dec 03 08:46	0°♒	
	9380 Jan 19 20:24	0°♓	
evening set	9380 Feb 26 04:46	24°♓59'57	
	9380 Mar 04 10:47	0°♈	
max. Earth dist.	9380 Mar 11 14:12	4°♈58'28	2.50220 AU
	9380 Apr 15 13:35	0°♉	
conjunction	9380 Apr 17 05:02	1°♉12'11	-1°05'01
minimum elong	9380 Apr 17 06:03	1°♉14'03	1°05'09
	9380 May 25 16:52	0°♊	
morning rise	9380 Jun 14 23:09	15°♊34'34	
	9380 Jul 03 11:50	0°♋	
	9380 Aug 10 16:56	0°♌	
asc. node	9380 Aug 20 05:27	7°♌28'01	
	9380 Sep 18 04:55	0°♍	
	9380 Oct 27 22:36	0°♎	
	9380 Dec 09 01:41	0°♏	
	9381 Jan 24 13:03	0°♐	
	9381 Mar 24 17:51	0°♑	
retrograde	9381 May 03 12:28	8°♑23'35	
	9381 Jun 09 06:53	30°℞♐	
min. Earth dist.	9381 Jun 11 05:28	29°♐13'53	0.66954 AU
opposition	9381 Jun 13 03:11	28°♐28'25	1°27'46
greatest brilliancy	9381 Jun 13 01:05	28°♐30'30	-1.4m
direct	9381 Jul 23 09:29	18°♐56'06	
desc. node	9381 Jul 25 13:05	18°♐57'47	
	9381 Sep 10 02:59	0°♑	
	9381 Nov 10 06:46	0°♒	
	9381 Dec 30 04:33	0°♓	
	9382 Feb 13 09:12	0°♈	
	9382 Mar 27 09:10	0°♉	
evening set	9382 Apr 16 15:28	15°♉07'17	
	9382 May 06 03:10	0°♊	
max. Earth dist.	9382 May 20 19:32	11°♊23'27	2.37250 AU
	9382 Jun 13 12:09	0°♋	
conjunction	9382 Jun 19 23:22	5°♋06'45	-0°13'07
minimum elong	9382 Jun 20 00:45	5°♋09'30	0°13'25
behind sun begin	9382 Jun 19 07:51	4°♋36'04	
behind sun end	9382 Jun 20 17:40	5°♋42'56	
asc. node	9382 Jul 08 02:52	19°♋29'00	
	9382 Jul 21 09:44	0°♌	
	9382 Aug 28 17:18	0°♍	
morning rise	9382 Sep 01 10:02	2°♍51'13	
	9382 Oct 07 06:56	0°♎	
	9382 Nov 17 21:11	0°♏	
	9383 Jan 01 06:57	0°♐	
	9383 Feb 18 22:23	0°♑	
	9383 Apr 19 08:29	0°♒	
retrograde	9383 Jun 06 16:55	11°♒13'09	

desc. node	9383 Jun 12 13:00	11°♒00'24	
opposition	9383 Jul 16 20:52	1°♒45'53	-1°10'35
greatest brilliancy	9383 Jul 16 22:12	1°♒44'34	-1.3m
min. Earth dist.	9383 Jul 18 18:15	1°♒01'16	0.67754 AU
	9383 Jul 21 08:54	30°℞♑	
direct	9383 Aug 27 10:39	21°♑46'00	
	9383 Oct 06 22:48	0°♒	
	9383 Dec 07 04:53	0°♓	
	9384 Jan 23 18:21	0°♈	
	9384 Mar 06 08:54	0°♉	
	9384 Apr 15 04:12	0°♊	
	9384 May 23 11:24	0°♋	
asc. node	9384 May 25 03:12	1°♋18'44	
evening set	9384 Jun 25 10:12	26°♋06'03	
	9384 Jun 30 08:39	0°♌	
	9384 Aug 07 18:59	0°♍	
conjunction	9384 Sep 03 02:06	19°♍58'37	0°58'37
minimum elong	9384 Sep 02 23:34	19°♍53'54	0°58'31
	9384 Sep 16 13:40	0°♎	
max. Earth dist.	9384 Oct 20 01:45	24°♎12'41	2.47255 AU
	9384 Oct 28 07:08	0°♏	
morning rise	9384 Nov 03 14:00	4°♏23'02	
	9384 Dec 11 08:16	0°♐	
	9385 Jan 27 00:08	0°♑	
	9385 Mar 18 03:35	0°♒	
desc. node	9385 Apr 29 09:49	22°♒31'34	
	9385 May 15 13:13	0°♓	
retrograde	9385 Jul 13 08:34	15°♓18'53	
opposition	9385 Aug 20 18:05	6°♓42'59	-3°42'54
greatest brilliancy	9385 Aug 21 10:31	6°♓27'17	-1.5m
min. Earth dist.	9385 Aug 26 10:10	4°♓33'01	0.61945 AU
	9385 Sep 08 18:55	30°℞♒	
direct	9385 Sep 30 23:35	26°♒46'48	
	9385 Oct 24 08:52	0°♓	
	9385 Dec 28 08:19	0°♈	
	9386 Feb 11 21:57	0°♉	
	9386 Mar 24 16:41	0°♊	
asc. node	9386 Apr 12 04:02	14°♊11'16	
	9386 May 02 10:56	0°♋	
	9386 Jun 09 17:29	0°♌	
	9386 Jul 18 15:01	0°♍	
	9386 Aug 27 22:57	0°♎	
evening set	9386 Sep 03 00:28	4°♎23'43	
	9386 Oct 09 05:09	0°♏	
conjunction	9386 Oct 29 04:14	13°♏40'57	1°00'31
minimum elong	9386 Oct 29 05:28	13°♏43'02	1°00'42
	9386 Nov 22 12:50	0°♐	
max. Earth dist.	9386 Nov 23 13:03	0°♐40'04	2.59407 AU
morning rise	9386 Dec 18 02:45	16°♐44'35	
	9387 Jan 07 18:17	0°♑	
	9387 Feb 24 17:01	0°♒	
desc. node	9387 Mar 17 04:28	12°♒28'08	
	9387 Apr 15 17:14	0°♓	
	9387 Jun 09 04:06	0°♈	
retrograde	9387 Aug 30 15:44	26°♈46'42	
opposition	9387 Oct 04 11:20	19°♈40'50	-5°34'30
greatest brilliancy	9387 Oct 06 04:24	19°♈04'46	-2.1m
min. Earth dist.	9387 Oct 13 01:29	16°♈40'29	0.50097 AU
direct	9387 Nov 11 17:08	10°♈57'49	
	9388 Jan 09 21:43	0°♉	
	9388 Feb 26 03:06	0°♊	
asc. node	9388 Feb 28 05:19	1°♊28'06	
	9388 Apr 07 06:17	0°♋	
	9388 May 16 23:47	0°♌	
	9388 Jun 26 02:52	0°♍	
	9388 Aug 06 14:30	0°♎	
	9388 Sep 18 21:26	0°♏	
evening set	9388 Oct 21 14:09	21°♏51'58	
	9388 Nov 02 23:16	0°♐	
conjunction	9388 Dec 08 15:42	23°♐05'54	0°27'53
minimum elong	9388 Dec 08 16:35	23°♐07'18	0°28'11
max. Earth dist.	9388 Dec 17 14:30	28°♐49'36	2.66501 AU
	9388 Dec 19 10:36	0°♑	
morning rise	9389 Jan 22 12:40	21°♑39'13	
desc. node	9389 Feb 01 00:20	27°♑39'00	
	9389 Feb 04 17:40	0°♒	
	9389 Mar 24 09:49	0°♓	
	9389 May 11 09:04	0°♈	
	9389 Jun 29 04:15	0°♉	
	9389 Aug 19 23:39	0°♊	
retrograde	9389 Nov 09 05:15	28°♊21'46	
opposition	9389 Dec 09 04:01	23°♊21'14	-2°45'15
greatest brilliancy	9389 Dec 09 17:50	23°♊11'48	-3.0m
min. Earth dist.	9389 Dec 13 06:28	22°♊14'03	0.37626 AU
direct	9390 Jan 09 03:47	17°♊54'40	
asc. node	9390 Jan 15 07:44	18°♊10'22	
	9390 Feb 23 05:20	0°♋	
	9390 Apr 16 00:43	0°♌	
	9390 May 31 04:50	0°♍	
	9390 Jul 14 20:50	0°♎	
	9390 Aug 29 09:01	0°♏	
	9390 Oct 14 22:51	0°♐	
evening set	9390 Nov 29 18:10	29°♐03'42	
	9390 Dec 01 05:46	0°♑	
desc. node	9390 Dec 19 21:23	11°♑47'50	
max. Earth dist.	9391 Jan 08 22:24	24°♑29'45	2.68090 AU
conjunction	9391 Jan 13 13:58	27°♑26'53	-0°12'56
minimum elong	9391 Jan 13 13:35	27°♑26'17	0°12'37
behind sun begin	9391 Jan 13 02:09	27°♑08'08	
behind sun end	9391 Jan 14 01:01	27°♑44'26	
	9391 Jan 17 14:19	0°♒	
morning rise	9391 Feb 26 02:00	25°♒16'24	
	9391 Mar 05 09:34	0°♓	
	9391 Apr 20 05:39	0°♈	
	9391 Jun 03 22:45	0°♉	
	9391 Jul 17 14:17	0°♊	
	9391 Aug 29 12:09	0°♋	
	9391 Oct 11 19:28	0°♌	
	9391 Nov 28 16:05	0°♍	
asc. node	9391 Dec 03 07:17	2°♍29'22	
retrograde	9392 Jan 24 07:36	18°♍30'12	
min. Earth dist.	9392 Feb 19 13:03	13°♍52'44	0.41582 AU
greatest brilliancy	9392 Feb 25 22:13	11°♍50'09	-2.7m
opposition	9392 Feb 27 10:05	11°♍21'11	5°06'04
direct	9392 Mar 29 11:20	5°♍27'09	
	9392 Jun 11 15:31	0°♎	
	9392 Aug 04 04:44	0°♏	
	9392 Sep 23 09:15	0°♐	
desc. node	9392 Nov 05 21:34	26°♐34'03	
	9392 Nov 11 11:15	0°♑	
	9392 Dec 29 12:22	0°♒	
evening set	9393 Jan 03 14:18	3°♒13'10	
max. Earth dist.	9393 Jan 30 23:59	20°♒47'04	2.64184 AU
	9393 Feb 14 03:38	0°♓	
conjunction	9393 Feb 17 07:15	2°♓03'59	-0°49'19
minimum elong	9393 Feb 17 06:07	2°♓02'07	0°49'08
	9393 Mar 31 01:33	0°♈	
morning rise	9393 Apr 03 18:23	2°♈31'40	
	9393 May 13 03:59	0°♉	

	9393 Jun 23 14:31	0°♊	
	9393 Aug 02 17:45	0°♋	
	9393 Sep 11 04:57	0°♌	
asc. node	9393 Oct 20 03:54	29°♌20'22	
	9393 Oct 21 01:19	0°♍	
	9393 Dec 02 03:14	0°♎	
	9394 Jan 20 20:48	0°♏	
retrograde	9394 Mar 14 07:58	15°♏22'17	
min. Earth dist.	9394 Apr 15 02:08	8°♏31'05	0.55176 AU
greatest brilliancy	9394 Apr 20 23:26	6°♏15'31	-1.9m
opposition	9394 Apr 22 03:42	5°♏48'18	4°53'55
	9394 May 09 18:18	30°℞♎	
direct	9394 May 28 03:49	27°♎45'58	
	9394 Jun 16 19:11	0°♏	
	9394 Aug 29 00:25	0°♐	
desc. node	9394 Sep 23 23:56	14°♐03'17	
	9394 Oct 21 22:11	0°♑	
	9394 Dec 10 18:07	0°♒	
	9395 Jan 26 20:24	0°♓	
evening set	9395 Feb 10 00:11	9°♓20'48	
max. Earth dist.	9395 Feb 27 02:07	20°♓50'24	2.55065 AU
	9395 Mar 12 10:54	0°♈	
conjunction	9395 Mar 30 02:55	12°♈20'30	-1°07'47
minimum elong	9395 Mar 30 02:45	12°♈20'13	1°07'50
	9395 Apr 23 18:32	0°♉	
morning rise	9395 May 22 04:06	20°♉57'15	
	9395 Jun 03 04:27	0°♊	
	9395 Jul 12 05:55	0°♋	
	9395 Aug 19 16:05	0°♌	
asc. node	9395 Sep 07 00:42	14°♌18'46	
	9395 Sep 27 08:03	0°♍	
	9395 Nov 06 07:02	0°♎	
	9395 Dec 19 00:01	0°♏	
	9396 Feb 05 17:18	0°♐	
retrograde	9396 Apr 20 03:42	25°♐10'29	
min. Earth dist.	9396 May 27 04:46	16°♐32'08	0.64856 AU
opposition	9396 May 30 14:05	15°♐11'14	2°28'54
greatest brilliancy	9396 May 30 07:20	15°♐17'57	-1.4m
direct	9396 Jul 08 22:26	5°♐56'54	
desc. node	9396 Aug 11 01:49	11°♐33'50	
	9396 Sep 24 21:28	0°♑	
	9396 Nov 19 02:10	0°♒	
	9397 Jan 06 18:15	0°♓	
	9397 Feb 20 15:22	0°♈	
evening set	9397 Mar 25 23:41	23°♈39'58	
	9397 Apr 03 15:40	0°♉	
max. Earth dist.	9397 Apr 10 17:16	5°♉12'58	2.41990 AU
	9397 May 13 12:47	0°♊	
conjunction	9397 May 23 01:30	7°♊20'54	-0°41'50
minimum elong	9397 May 23 04:15	7°♊26'13	0°42'05
	9397 Jun 21 01:12	0°♋	
asc. node	9397 Jul 24 20:56	26°♋42'32	
	9397 Jul 29 00:59	0°♌	
morning rise	9397 Jul 31 17:41	2°♌07'37	
	9397 Sep 05 09:09	0°♍	
	9397 Oct 14 22:37	0°♎	
	9397 Nov 25 14:20	0°♏	
	9398 Jan 09 10:22	0°♐	
	9398 Feb 28 22:10	0°♑	
retrograde	9398 May 24 07:06	28°♑46'01	
desc. node	9398 Jun 29 02:07	20°♑55'50	
opposition	9398 Jul 03 18:45	19°♑05'15	-0°09'42
greatest brilliancy	9398 Jul 03 18:48	19°♑05'12	-1.3m
min. Earth dist.	9398 Jul 04 04:31	18°♑55'35	0.68219 AU
direct	9398 Aug 14 00:14	9°♑13'02	

	9398 Oct 23 08:08	0°♒	
	9398 Dec 16 12:01	0°♓	
	9399 Jan 31 19:09	0°♈	
	9399 Mar 15 01:35	0°♉	
	9399 Apr 23 19:14	0°♊	
evening set	9399 May 27 14:20	26°♊26'23	
	9399 Jun 01 02:25	0°♋	
asc. node	9399 Jun 11 18:27	8°♋27'07	
	9399 Jul 08 23:03	0°♌	
conjunction	9399 Aug 06 18:54	22°♌37'24	0°38'00
minimum elong	9399 Aug 06 15:31	22°♌30'48	0°37'45
	9399 Aug 16 07:26	0°♍	
	9399 Sep 24 23:05	0°♎	
max. Earth dist.	9399 Sep 29 02:26	3°♎03'24	2.41650 AU
morning rise	9399 Oct 13 15:46	13°♎40'47	
	9399 Nov 05 13:34	0°♏	
	9399 Dec 19 15:05	0°♐	
	9400 Feb 04 17:41	0°♑	
	9400 Mar 28 17:50	0°♒	
desc. node	9400 May 17 00:39	22°♒49'20	
	9400 Jun 11 02:44	0°♓	
retrograde	9400 Jun 28 22:24	1°♓46'52	
	9400 Jul 15 19:17	30°℞♒	
opposition	9400 Aug 07 04:43	22°♒47'32	-2°45'29
greatest brilliancy	9400 Aug 07 13:22	22°♒39'09	-1.4m
min. Earth dist.	9400 Aug 11 09:35	21°♒09'44	0.65000 AU
direct	9400 Sep 17 19:06	12°♒44'44	
	9400 Nov 17 10:30	0°♓	
	9401 Jan 09 00:33	0°♈	
	9401 Feb 21 21:36	0°♉	
	9401 Apr 03 03:01	0°♊	
asc. node	9401 Apr 29 19:31	20°♊43'22	
	9401 May 11 14:47	0°♋	
	9401 Jun 18 15:56	0°♌	
	9401 Jul 27 07:26	0°♍	
evening set	9401 Aug 10 12:22	10°♍47'13	
	9401 Sep 05 08:43	0°♎	
conjunction	9401 Oct 10 18:30	25°♎23'50	1°06'18
minimum elong	9401 Oct 10 18:56	25°♎24'36	1°06'25
	9401 Oct 17 08:24	0°♏	
max. Earth dist.	9401 Nov 12 22:50	18°♏15'18	2.55204 AU
	9401 Nov 30 11:50	0°♐	
morning rise	9401 Dec 03 05:18	1°♐48'26	
	9402 Jan 15 18:28	0°♑	
	9402 Mar 05 06:36	0°♒	
desc. node	9402 Apr 03 20:33	17°♒27'11	
	9402 Apr 26 03:04	0°♓	
	9402 Jun 27 19:40	0°♈	
retrograde	9402 Aug 10 21:40	9°♈23'07	
opposition	9402 Sep 16 09:15	1°♈35'42	-5°02'16
greatest brilliancy	9402 Sep 17 17:15	1°♈06'17	-1.8m
	9402 Sep 20 17:05	30°℞♓	
min. Earth dist.	9402 Sep 24 02:21	28°♓45'52	0.55334 AU
direct	9402 Oct 26 05:45	22°♓10'49	
	9402 Dec 01 19:24	0°♈	
	9403 Jan 26 09:35	0°♉	
	9403 Mar 10 09:41	0°♊	
asc. node	9403 Mar 17 21:30	5°♊32'39	
	9403 Apr 19 03:15	0°♋	
	9403 May 28 01:15	0°♌	
	9403 Jul 06 12:37	0°♍	
	9403 Aug 16 10:15	0°♎	
	9403 Sep 28 04:55	0°♏	
evening set	9403 Oct 06 01:58	5°♏22'36	
	9403 Nov 11 21:43	0°♐	

conjunction	9403 Nov 25 13:02	8°♐55'58	0°42'24
minimum elong	9403 Nov 25 14:16	8°♐58'00	0°42'40
max. Earth dist.	9403 Dec 10 11:38	18°♐37'16	2.64383 AU
	9403 Dec 28 04:54	0°♑	
morning rise	9404 Jan 10 20:28	8°♑41'35	
	9404 Feb 13 15:31	0°♒	
desc. node	9404 Feb 19 14:59	3°♒44'27	
	9404 Apr 01 23:15	0°♓	
	9404 May 21 12:16	0°♈	
	9404 Jul 13 05:50	0°♉	
	9404 Sep 27 01:40	0°♊	
retrograde	9404 Oct 09 17:33	0°♊58'04	
	9404 Oct 22 04:14	30°℞♉	
opposition	9404 Nov 10 12:22	25°♉13'04	-5°00'11
greatest brilliancy	9404 Nov 12 01:13	24°♉44'49	-2.6m
min. Earth dist.	9404 Nov 18 05:59	22°♉52'08	0.41625 AU
direct	9404 Dec 14 14:08	18°♉23'49	
	9405 Jan 27 05:55	0°♊	
asc. node	9405 Feb 01 22:20	2°♊47'36	
	9405 Mar 18 20:52	0°♋	
	9405 Apr 30 21:34	0°♌	
	9405 Jun 11 23:54	0°♍	
	9405 Jul 24 22:13	0°♎	
	9405 Sep 07 07:21	0°♏	
	9405 Oct 23 03:43	0°♐	
evening set	9405 Nov 16 05:43	15°♐28'07	
	9405 Dec 09 00:52	0°♑	
conjunction	9405 Dec 31 21:42	14°♑31'09	0°02'58
minimum elong	9405 Dec 31 21:49	14°♑31'21	0°03'17
behind sun begin	9405 Dec 31 03:33	14°♑02'24	
behind sun end	9406 Jan 01 16:05	15°♑00'17	
max. Earth dist.	9406 Jan 01 07:20	14°♑46'24	2.68136 AU
desc. node	9406 Jan 06 11:22	18°♑03'06	
	9406 Jan 25 07:14	0°♒	
morning rise	9406 Feb 13 13:25	12°♒14'39	
	9406 Mar 13 08:27	0°♓	
	9406 Apr 28 19:48	0°♈	
	9406 Jun 13 15:40	0°♉	
	9406 Jul 29 01:01	0°♊	
	9406 Sep 12 19:33	0°♋	
	9406 Nov 01 16:49	0°♌	
asc. node	9406 Dec 21 00:24	18°♌07'26	
retrograde	9406 Dec 30 03:59	18°♌42'02	
min. Earth dist.	9407 Jan 25 12:51	14°♌23'09	0.37588 AU
opposition	9407 Jan 30 08:51	13°♌01'57	2°58'34
greatest brilliancy	9407 Jan 29 17:57	13°♌12'26	-3.0m
direct	9407 Feb 28 19:26	7°♌59'09	
	9407 May 07 04:15	0°♍	
	9407 Jun 28 07:04	0°♎	
	9407 Aug 16 01:04	0°♏	
	9407 Oct 03 08:40	0°♐	
	9407 Nov 20 13:36	0°♑	
desc. node	9407 Nov 24 10:13	2°♑24'37	
evening set	9407 Dec 22 18:16	20°♑11'28	
	9408 Jan 07 06:20	0°♒	
max. Earth dist.	9408 Jan 23 22:30	10°♒37'43	2.66366 AU
conjunction	9408 Feb 05 03:40	18°♒28'49	-0°36'29
minimum elong	9408 Feb 05 02:42	18°♒27'16	0°36'14
	9408 Feb 22 21:53	0°♓	
morning rise	9408 Mar 20 08:51	17°♓25'54	
	9408 Apr 08 02:46	0°♈	
	9408 May 21 17:41	0°♉	
	9408 Jul 02 20:14	0°♊	
	9408 Aug 12 17:38	0°♋	
	9408 Sep 22 01:10	0°♌	
	9408 Nov 02 02:40	0°♍	
asc. node	9408 Nov 06 23:11	3°♍26'05	
	9408 Dec 17 03:30	0°♎	
retrograde	9409 Feb 26 00:25	26°♎19'03	
min. Earth dist.	9409 Mar 27 07:43	20°♎22'17	0.49939 AU
greatest brilliancy	9409 Apr 02 22:51	17°♎56'17	-2.1m
opposition	9409 Apr 04 12:06	17°♎21'54	5°30'56
direct	9409 May 08 17:06	10°♎02'49	
	9409 Jul 14 21:28	0°♏	
	9409 Sep 09 13:36	0°♐	
desc. node	9409 Oct 11 11:33	18°♐27'03	
	9409 Oct 30 21:55	0°♑	
	9409 Dec 18 20:48	0°♒	
evening set	9410 Jan 26 23:37	24°♒57'07	
	9410 Feb 03 17:11	0°♓	
max. Earth dist.	9410 Feb 16 16:14	8°♓33'16	2.59209 AU
conjunction	9410 Mar 14 05:14	25°♓45'55	-1°04'02
minimum elong	9410 Mar 14 04:23	25°♓44'27	1°03'59
	9410 Mar 20 09:29	0°♈	
	9410 May 01 23:23	0°♉	
morning rise	9410 May 02 07:36	0°♉14'48	
	9410 Jun 11 17:28	0°♊	
	9410 Jul 21 03:19	0°♋	
	9410 Aug 28 20:59	0°♌	
asc. node	9410 Sep 24 18:02	20°♌45'46	
	9410 Oct 06 20:03	0°♍	
	9410 Nov 16 05:44	0°♎	
	9410 Dec 30 02:36	0°♏	
	9411 Feb 22 10:53	0°♐	
retrograde	9411 Apr 08 05:17	11°♐00'24	
min. Earth dist.	9411 May 13 09:01	2°♐58'46	0.61757 AU
opposition	9411 May 18 05:37	1°♐03'23	3°28'59
greatest brilliancy	9411 May 17 15:50	1°♐17'03	-1.6m
	9411 May 20 22:04	30°℞♏	
direct	9411 Jun 25 10:35	22°♏12'15	
	9411 Aug 04 01:28	0°♐	
desc. node	9411 Aug 29 14:03	10°♐19'08	
	9411 Oct 07 20:59	0°♑	
	9411 Nov 29 04:02	0°♒	
	9412 Jan 16 01:14	0°♓	
	9412 Feb 29 18:22	0°♈	
evening set	9412 Mar 08 01:05	5°♈03'57	
max. Earth dist.	9412 Mar 21 15:15	14°♈39'44	2.47356 AU
	9412 Apr 11 20:50	0°♉	
conjunction	9412 Apr 30 03:56	13°♉32'32	-0°59'38
minimum elong	9412 Apr 30 05:45	13°♉35'55	0°59'49
	9412 May 21 22:07	0°♊	
	9412 Jun 29 14:43	0°♋	
morning rise	9412 Jul 01 18:33	1°♋41'37	
greatest brilliancy	9412 Jul 25 03:15	20°♋04'44	1.2m
	9412 Aug 06 17:30	0°♌	
asc. node	9412 Aug 11 13:54	3°♌48'58	
	9412 Sep 14 03:15	0°♍	
	9412 Oct 23 18:11	0°♎	
	9412 Dec 04 14:46	0°♏	
	9413 Jan 19 05:57	0°♐	
	9413 Mar 14 11:52	0°♑	
retrograde	9413 May 12 02:41	16°♑12'43	
opposition	9413 Jun 21 17:16	6°♑21'45	0°51'44
min. Earth dist.	9413 Jun 20 15:38	6°♑47'14	0.67680 AU
greatest brilliancy	9413 Jun 21 16:42	6°♑22'19	-1.3m
	9413 Jul 09 11:25	30°℞♐	
desc. node	9413 Jul 16 16:02	28°♐14'53	
direct	9413 Aug 01 08:51	26°♐41'15	
	9413 Aug 26 06:06	0°♑	

	9413 Nov 04	19:00	0°♒	
	9413 Dec 25	21:31	0°♓	
	9414 Feb 09	10:54	0°♈	
	9414 Mar 23	13:34	0°♉	
evening set	9414 May 01	08:48	29°♉15'43	
	9414 May 02	07:47	0°♊	
	9414 Jun 09	16:23	0°♋	
asc. node	9414 Jun 29	12:06	15°♋41'55	
conjunction	9414 Jul 08	00:20	22°♋26'35	0°06'13
minimum elong	9414 Jul 07	23:40	22°♋25'16	0°05'55
behind sun begin	9414 Jul 06	18:49	21°♋28'07	
behind sun end	9414 Jul 09	04:32	23°♋22'23	
	9414 Jul 17	13:27	0°♌	
max. Earth dist.	9414 Aug 08	20:54	17°♌33'29	2.36818 AU
	9414 Aug 24	20:39	0°♍	
morning rise	9414 Sep 18	19:00	19°♍03'22	
	9414 Oct 03	10:00	0°♎	
	9414 Nov 13	22:48	0°♏	
	9414 Dec 28	03:18	0°♐	
	9415 Feb 14	00:13	0°♑	
	9415 Apr 10	10:34	0°♒	
desc. node	9415 Jun 03	15:21	18°♒04'21	
retrograde	9415 Jun 15	14:14	18°♒54'10	
opposition	9415 Jul 25	11:45	9°♒35'52	-1°46'00
greatest brilliancy	9415 Jul 25	15:01	9°♒32'41	-1.3m
min. Earth dist.	9415 Jul 28	05:07	8°♒31'50	0.67046 AU
	9415 Aug 27	18:33	30°℞♑	
direct	9415 Sep 05	03:11	29°♑33'25	
	9415 Sep 13	17:05	0°♒	
	9415 Dec 01	08:31	0°♓	
	9416 Jan 19	04:58	0°♈	
	9416 Mar 02	04:50	0°♉	
	9416 Apr 11	03:17	0°♊	
asc. node	9416 May 16	10:41	27°♊35'23	
greatest brilliancy	9416 May 17	00:55	28°♊03'27	1.2m
	9416 May 19	11:57	0°♋	
	9416 Jun 26	10:15	0°♌	
evening set	9416 Jul 13	09:39	13°♌19'40	
	9416 Aug 03	21:48	0°♍	
	9416 Sep 12	18:03	0°♎	
conjunction	9416 Sep 18	08:41	4°♎07'05	1°04'29
minimum elong	9416 Sep 18	07:23	4°♎04'42	1°04'28
	9416 Oct 24	12:38	0°♏	
max. Earth dist.	9416 Oct 30	07:40	4°♏02'26	2.50260 AU
morning rise	9416 Nov 15	14:05	15°♏13'53	
	9416 Dec 07	13:11	0°♐	
	9417 Jan 22	23:40	0°♑	
	9417 Mar 13	08:30	0°♒	
desc. node	9417 Apr 20	11:46	21°♒20'37	
	9417 May 07	09:31	0°♓	
retrograde	9417 Jul 23	18:11	23°♓56'14	
opposition	9417 Aug 30	13:19	15°♓35'39	-4°14'11
greatest brilliancy	9417 Aug 31	11:06	15°♓15'03	-1.6m
min. Earth dist.	9417 Sep 06	00:08	13°♓09'20	0.59850 AU
direct	9417 Oct 10	10:15	5°♓46'44	
	9417 Dec 21	05:06	0°♈	
	9418 Feb 06	17:00	0°♉	
	9418 Mar 20	01:16	0°♊	
asc. node	9418 Apr 03	12:45	11°♊00'29	
	9418 Apr 28	01:40	0°♋	
	9418 Jun 05	12:10	0°♌	
	9418 Jul 14	13:06	0°♍	
	9418 Aug 24	00:34	0°♎	
evening set	9418 Sep 16	10:57	16°♎45'41	
	9418 Oct 05	09:57	0°♏	
conjunction	9418 Nov 09	05:51	23°♏38'15	0°54'49
minimum elong	9418 Nov 09	07:13	23°♏40'33	0°55'03
	9418 Nov 18	19:47	0°♐	
max. Earth dist.	9418 Nov 30	14:02	7°♐44'22	2.61426 AU
morning rise	9418 Dec 27	15:17	25°♐16'09	
	9419 Jan 04	00:39	0°♑	
	9419 Feb 20	17:31	0°♒	
desc. node	9419 Mar 08	06:24	9°♒34'55	
	9419 Apr 10	23:30	0°♓	
	9419 Jun 02	01:19	0°♈	
	9419 Aug 04	03:16	0°♉	
retrograde	9419 Sep 13	20:26	8°♉20'12	
opposition	9419 Oct 17	15:14	1°♉40'51	-5°38'32
greatest brilliancy	9419 Oct 19	10:30	1°♉04'09	-2.3m
	9419 Oct 22	13:58	30°℞♈	
min. Earth dist.	9419 Oct 26	07:58	28°♈45'06	0.47047 AU
direct	9419 Nov 23	14:56	23°♈31'06	
	9419 Dec 25	14:24	0°♉	
	9420 Feb 18	16:50	0°♊	
asc. node	9420 Feb 19	15:46	0°♊37'56	
	9420 Apr 01	09:45	0°♋	
	9420 May 11	21:02	0°♌	
	9420 Jun 21	11:35	0°♍	
	9420 Aug 02	08:09	0°♎	
	9420 Sep 14	22:01	0°♏	
	9420 Oct 30	04:55	0°♐	
evening set	9420 Oct 31	21:24	1°♐05'55	
	9420 Dec 15	18:43	0°♑	
conjunction	9420 Dec 17	22:21	1°♑22'19	0°18'49
minimum elong	9420 Dec 17	22:57	1°♑23'16	0°19'07
max. Earth dist.	9420 Dec 23	18:28	5°♑05'27	2.67324 AU
desc. node	9421 Jan 23	01:32	24°♑19'08	
morning rise	9421 Jan 31	05:21	29°♑29'04	
	9421 Feb 01	00:53	0°♒	
	9421 Mar 20	10:38	0°♓	
	9421 May 06	18:36	0°♈	
	9421 Jun 23	05:43	0°♉	
	9421 Aug 10	17:52	0°♊	
	9421 Oct 03	12:00	0°♋	
retrograde	9421 Nov 28	16:42	16°♋18'37	
opposition	9421 Dec 28	12:42	11°♋23'23	-0°43'00
greatest brilliancy	9421 Dec 28	14:25	11°♋22'15	-3.1m
min. Earth dist.	9421 Dec 29	09:15	11°♋09'43	0.36622 AU
asc. node	9422 Jan 06	16:44	9°♋03'14	
direct	9422 Jan 27	06:06	6°♋24'39	
	9422 Apr 05	05:31	0°♌	
	9422 May 24	07:29	0°♍	
	9422 Jul 09	12:58	0°♎	
	9422 Aug 24	21:22	0°♏	
	9422 Oct 10	22:59	0°♐	
	9422 Nov 27	12:17	0°♑	
evening set	9422 Dec 08	20:19	7°♑08'34	
desc. node	9422 Dec 10	23:11	8°♑28'45	
	9423 Jan 13	23:16	0°♒	
max. Earth dist.	9423 Jan 15	00:59	0°♒40'53	2.67710 AU
conjunction	9423 Jan 22	09:29	5°♒21'54	-0°21'58
minimum elong	9423 Jan 22	08:52	5°♒20'54	0°21'41
	9423 Mar 01	17:01	0°♓	
morning rise	9423 Mar 07	00:04	3°♓26'28	
	9423 Apr 16	07:19	0°♈	
	9423 May 30	14:13	0°♉	
	9423 Jul 12	14:18	0°♊	
	9423 Aug 23	14:29	0°♋	
	9423 Oct 04	09:43	0°♌	
	9423 Nov 17	06:05	0°♍	

asc. node	9423 Nov 24 15:36	4°♍41'12	
	9424 Jan 14 21:48	0°♎	
retrograde	9424 Feb 07 02:18	3°♎43'25	
	9424 Mar 01 00:45	30°℞♍	
min. Earth dist.	9424 Mar 05 04:00	28°♍41'21	0.44456 AU
greatest brilliancy	9424 Mar 11 22:56	26°♍22'54	-2.5m
opposition	9424 Mar 13 15:19	25°♍48'21	5°33'44
direct	9424 Apr 14 18:51	19°♍22'17	
	9424 May 29 23:46	0°♎	
	9424 Jul 28 22:11	0°♏	
	9424 Sep 18 17:18	0°♐	
desc. node	9424 Oct 28 00:33	23°♐37'47	
	9424 Nov 07 11:15	0°♑	
	9424 Dec 25 19:18	0°♒	
evening set	9425 Jan 12 15:08	11°♒18'54	
max. Earth dist.	9425 Feb 06 14:41	27°♒26'52	2.62629 AU
	9425 Feb 10 12:23	0°♓	
conjunction	9425 Feb 26 17:19	10°♓41'43	-0°55'44
minimum elong	9425 Feb 26 16:12	10°♓39'52	0°55'36
	9425 Mar 27 08:28	0°♈	
morning rise	9425 Apr 14 04:50	12°♈18'53	
	9425 May 09 06:43	0°♉	
	9425 Jun 19 11:20	0°♊	
	9425 Jul 29 07:58	0°♋	
	9425 Sep 06 11:52	0°♌	
asc. node	9425 Oct 11 12:54	26°♌42'22	
	9425 Oct 15 22:02	0°♍	
	9425 Nov 26 03:12	0°♎	
	9426 Jan 11 12:09	0°♏	
retrograde	9426 Mar 24 09:24	25°♏30'26	
min. Earth dist.	9426 Apr 26 10:06	18°♏11'51	0.57746 AU
opposition	9426 May 02 17:15	15°♏44'29	4°25'25
greatest brilliancy	9426 May 01 18:29	16°♏06'45	-1.7m
direct	9426 Jun 08 13:36	7°♏22'35	
	9426 Aug 21 19:47	0°♐	
desc. node	9426 Sep 15 02:58	12°♐19'28	
	9426 Oct 17 04:31	0°♑	
	9426 Dec 06 18:23	0°♒	
	9427 Jan 23 03:02	0°♓	
evening set	9427 Feb 20 01:33	18°♓34'10	
max. Earth dist.	9427 Mar 07 11:40	29°♓06'37	2.52447 AU
	9427 Mar 08 18:35	0°♈	
conjunction	9427 Apr 10 15:35	23°♈12'23	-1°07'10
minimum elong	9427 Apr 10 16:02	23°♈13'12	1°07'16
	9427 Apr 20 00:42	0°♉	
	9427 May 30 07:42	0°♊	
morning rise	9427 Jun 05 15:21	4°♊48'43	
	9427 Jul 08 06:04	0°♋	
	9427 Aug 15 13:30	0°♌	
asc. node	9427 Aug 29 07:35	10°♌45'53	
	9427 Sep 23 02:36	0°♍	
	9427 Nov 01 21:16	0°♎	
	9427 Dec 14 03:33	0°♏	
	9428 Jan 30 06:00	0°♐	
	9428 Apr 05 02:49	0°♑	
retrograde	9428 Apr 28 20:56	3°♑18'00	
	9428 May 21 01:42	30°℞♐	
min. Earth dist.	9428 Jun 05 20:26	24°♐21'34	0.66135 AU
opposition	9428 Jun 08 09:50	23°♐20'24	1°53'15
greatest brilliancy	9428 Jun 08 06:02	23°♐24'12	-1.4m
direct	9428 Jul 18 06:28	13°♐55'35	
desc. node	9428 Aug 02 04:55	15°♐11'24	
	9428 Sep 17 02:23	0°♑	
	9428 Nov 14 07:51	0°♒	
	9429 Jan 02 17:47	0°♓	
	9429 Feb 16 20:27	0°♈	
	9429 Mar 30 21:53	0°♉	
evening set	9429 Apr 07 19:47	5°♉50'50	
max. Earth dist.	9429 Apr 29 19:04	22°♉22'42	2.39145 AU
	9429 May 09 17:59	0°♊	
conjunction	9429 Jun 08 07:23	23°♊00'00	-0°26'40
minimum elong	9429 Jun 08 09:46	23°♊04'41	0°26'57
	9429 Jun 17 04:50	0°♋	
asc. node	9429 Jul 16 04:11	22°♋54'47	
	9429 Jul 25 03:17	0°♌	
morning rise	9429 Aug 19 19:31	20°♌11'10	
	9429 Sep 01 10:25	0°♍	
	9429 Oct 10 22:52	0°♎	
	9429 Nov 21 12:08	0°♏	
	9430 Jan 04 23:40	0°♐	
	9430 Feb 23 03:49	0°♑	
	9430 Apr 27 22:12	0°♒	
retrograde	9430 Jun 01 22:34	6°♒22'34	
desc. node	9430 Jun 20 05:15	4°♒14'30	
	9430 Jul 03 23:43	30°℞♑	
opposition	9430 Jul 12 06:19	26°♑48'59	-0°45'29
greatest brilliancy	9430 Jul 12 06:46	26°♑48'32	-1.3m
min. Earth dist.	9430 Jul 13 11:59	26°♑19'42	0.68093 AU
direct	9430 Aug 22 16:36	16°♑51'58	
	9430 Oct 14 21:29	0°♒	
	9430 Dec 11 13:11	0°♓	
	9431 Jan 27 14:25	0°♈	
	9431 Mar 11 02:50	0°♉	
	9431 Apr 19 22:13	0°♊	
	9431 May 28 05:45	0°♋	
asc. node	9431 Jun 03 04:08	4°♋41'48	
evening set	9431 Jun 14 04:03	13°♋24'57	
	9431 Jul 05 02:30	0°♌	
	9431 Aug 12 11:03	0°♍	
conjunction	9431 Aug 24 04:35	8°♍59'59	0°51'24
minimum elong	9431 Aug 24 01:20	8°♍53'47	0°51'15
	9431 Sep 21 03:07	0°♎	
max. Earth dist.	9431 Oct 13 17:22	16°♎29'11	2.44751 AU
morning rise	9431 Oct 27 12:28	26°♎19'22	
	9431 Nov 01 17:45	0°♏	
	9431 Dec 15 17:09	0°♐	
	9432 Jan 31 11:17	0°♑	
	9432 Mar 22 04:45	0°♒	
desc. node	9432 May 07 02:35	23°♒23'20	
	9432 May 23 01:27	0°♓	
retrograde	9432 Jul 07 14:03	9°♓53'57	
opposition	9432 Aug 15 09:21	1°♓07'04	-3°19'12
greatest brilliancy	9432 Aug 15 22:10	0°♓54'44	-1.5m
	9432 Aug 18 06:54	30°℞♒	
min. Earth dist.	9432 Aug 20 09:54	29°♒11'00	0.63439 AU
direct	9432 Sep 25 19:30	21°♒06'48	
	9432 Nov 05 19:14	0°♓	
	9433 Jan 02 10:45	0°♈	
	9433 Feb 16 06:30	0°♉	
	9433 Mar 28 19:49	0°♊	
asc. node	9433 Apr 20 04:53	17°♊16'01	
	9433 May 06 11:21	0°♋	
	9433 Jun 13 15:10	0°♌	
	9433 Jul 22 09:01	0°♍	
evening set	9433 Aug 24 18:45	25°♍03'05	
	9433 Aug 31 12:39	0°♎	
	9433 Oct 12 14:28	0°♏	
conjunction	9433 Oct 22 02:12	6°♏34'02	1°03'39
minimum elong	9433 Oct 22 03:12	6°♏35'45	1°03'50

max. Earth dist.	9433 Nov 19 19:26	26°♏01'43	2.57613 AU
	9433 Nov 25 18:40	0°♐	
morning rise	9433 Dec 12 11:06	10°♐58'59	
	9434 Jan 10 23:08	0°♑	
	9434 Feb 28 02:00	0°♒	
desc. node	9434 Mar 24 21:02	14°♒55'56	
	9434 Apr 19 17:22	0°♓	
	9434 Jun 15 13:25	0°♈	
retrograde	9434 Aug 22 06:34	19°♈26'45	
opposition	9434 Sep 26 20:46	12°♈01'07	-5°23'12
greatest brilliancy	9434 Sep 28 10:15	11°♈27'24	-2.0m
min. Earth dist.	9434 Oct 05 02:43	9°♈03'31	0.52512 AU
direct	9434 Nov 04 21:15	2°♈56'36	
	9435 Jan 17 17:30	0°♉	
	9435 Mar 03 16:24	0°♊	
asc. node	9435 Mar 08 06:15	3°♊18'09	
	9435 Apr 13 02:29	0°♋	
	9435 May 22 10:01	0°♌	
	9435 Jul 01 04:33	0°♍	
	9435 Aug 11 08:18	0°♎	
	9435 Sep 23 08:16	0°♏	
evening set	9435 Oct 16 06:15	15°♏28'20	
	9435 Nov 07 04:42	0°♐	
conjunction	9435 Dec 04 07:07	17°♐38'13	0°34'06
minimum elong	9435 Dec 04 08:11	17°♐39'55	0°34'23
max. Earth dist.	9435 Dec 15 21:03	25°♐05'15	2.65658 AU
	9435 Dec 23 13:07	0°♑	
morning rise	9436 Jan 18 17:40	16°♑39'24	
	9436 Feb 08 21:04	0°♒	
desc. node	9436 Feb 09 16:17	0°♒30'14	
	9436 Mar 27 19:06	0°♓	
	9436 May 15 08:48	0°♈	
	9436 Jul 04 12:54	0°♉	
	9436 Aug 29 17:13	0°♊	
retrograde	9436 Oct 26 22:54	16°♊12'23	
opposition	9436 Nov 26 13:32	10°♊55'28	-3°57'25
greatest brilliancy	9436 Nov 27 15:04	10°♊37'12	-2.8m
min. Earth dist.	9436 Dec 02 16:50	9°♊10'32	0.39140 AU
direct	9436 Dec 28 21:31	4°♊54'26	
asc. node	9437 Jan 23 08:37	9°♊12'01	
	9437 Mar 07 15:42	0°♋	
	9437 Apr 22 22:43	0°♌	
	9437 Jun 05 10:19	0°♍	
	9437 Jul 19 04:01	0°♎	
	9437 Sep 02 02:03	0°♏	
	9437 Oct 18 06:44	0°♐	
evening set	9437 Nov 24 14:55	23°♐49'15	
	9437 Dec 04 08:36	0°♑	
desc. node	9437 Dec 27 13:24	14°♑42'08	
max. Earth dist.	9438 Jan 06 07:34	20°♑53'20	2.68211 AU
conjunction	9438 Jan 08 18:22	22°♑26'33	-0°06'27
minimum elong	9438 Jan 08 18:11	22°♑26'16	0°06'08
behind sun begin	9438 Jan 08 00:56	21°♑58'56	
behind sun end	9438 Jan 09 11:26	22°♑53'36	
	9438 Jan 20 16:04	0°♒	
morning rise	9438 Feb 21 06:34	20°♒09'48	
	9438 Mar 08 13:56	0°♓	
	9438 Apr 23 16:46	0°♈	
	9438 Jun 07 21:15	0°♉	
	9438 Jul 22 05:19	0°♊	
	9438 Sep 04 03:51	0°♋	
	9438 Oct 19 07:31	0°♌	
asc. node	9438 Dec 11 09:04	28°♌57'35	
	9438 Dec 14 01:02	0°♍	
retrograde	9439 Jan 14 11:24	6°♍27'58	
min. Earth dist.	9439 Feb 09 10:24	2°♍04'28	0.39534 AU
greatest brilliancy	9439 Feb 15 02:43	0°♍21'30	-2.8m
opposition	9439 Feb 16 07:09	29°♌59'50	4°25'24
	9439 Feb 16 06:56	30°℞♌	
direct	9439 Mar 18 13:06	24°♌31'10	
	9439 Apr 18 00:57	0°♍	
	9439 Jun 19 19:17	0°♎	
	9439 Aug 09 18:59	0°♏	
	9439 Sep 28 01:10	0°♐	
desc. node	9439 Nov 14 12:57	29°♐16'13	
	9439 Nov 15 17:11	0°♑	
evening set	9439 Dec 30 15:40	28°♑07'20	
	9440 Jan 02 14:52	0°♒	
max. Earth dist.	9440 Jan 29 04:20	16°♒57'32	2.65263 AU
conjunction	9440 Feb 13 03:49	26°♒39'25	-0°44'15
minimum elong	9440 Feb 13 02:44	26°♒37'39	0°44'02
	9440 Feb 18 06:52	0°♓	
morning rise	9440 Mar 28 23:35	26°♓21'34	
	9440 Apr 03 08:38	0°♈	
	9440 May 16 17:14	0°♉	
	9440 Jun 27 11:09	0°♊	
	9440 Aug 06 22:10	0°♋	
	9440 Sep 15 17:22	0°♌	
	9440 Oct 25 23:19	0°♍	
asc. node	9440 Oct 28 05:36	1°♍39'00	
	9440 Dec 07 21:48	0°♎	
	9441 Jan 31 06:16	0°♏	
retrograde	9441 Mar 08 03:47	7°♏59'23	
min. Earth dist.	9441 Apr 07 19:58	1°♏31'15	0.52922 AU
	9441 Apr 11 21:03	30°℞♎	
greatest brilliancy	9441 Apr 14 01:47	29°♎09'48	-2.0m
opposition	9441 Apr 15 10:14	28°♎39'00	5°12'42
direct	9441 May 20 16:03	20°♎54'31	
	9441 Jul 01 23:27	0°♏	
	9441 Sep 02 20:26	0°♐	
desc. node	9441 Oct 01 15:03	16°♐04'35	
	9441 Oct 25 13:25	0°♑	
	9441 Dec 14 00:37	0°♒	
	9442 Jan 30 01:20	0°♓	
evening set	9442 Feb 04 10:11	3°♓31'22	
max. Earth dist.	9442 Feb 23 01:21	15°♓55'13	2.57014 AU
	9442 Mar 15 17:50	0°♈	
conjunction	9442 Mar 23 14:08	5°♈25'48	-1°06'54
minimum elong	9442 Mar 23 13:37	5°♈24'55	1°06'54
	9442 Apr 27 05:24	0°♉	
morning rise	9442 May 13 16:20	12°♉00'43	
	9442 Jun 06 19:45	0°♊	
	9442 Jul 16 01:12	0°♋	
	9442 Aug 23 14:33	0°♌	
asc. node	9442 Sep 15 02:18	17°♌28'42	
	9442 Oct 01 08:42	0°♍	
	9442 Nov 10 10:15	0°♎	
	9442 Dec 23 10:48	0°♏	
	9443 Feb 11 15:14	0°♐	
retrograde	9443 Apr 16 07:34	19°♐44'40	
min. Earth dist.	9443 May 22 12:43	11°♐21'46	0.63598 AU
opposition	9443 May 26 13:41	9°♐45'20	2°54'17
greatest brilliancy	9443 May 26 04:09	9°♐54'50	-1.5m
direct	9443 Jul 04 10:00	0°♐40'39	
desc. node	9443 Aug 19 17:20	10°♐50'08	
	9443 Sep 30 21:33	0°♑	
	9443 Nov 23 18:54	0°♒	
	9444 Jan 11 03:58	0°♓	
	9444 Feb 25 00:46	0°♈	
evening set	9444 Mar 18 11:26	15°♈46'23	

max. Earth dist.	9444 Apr 01 10:57	25°♈51'00	2.44399 AU
	9444 Apr 07 03:23	0°♉	
conjunction	9444 May 13 03:37	26°♉57'05	-0°50'53
minimum elong	9444 May 13 06:06	27°♉01'50	0°51'07
	9444 May 17 03:20	0°♊	
	9444 Jun 24 18:04	0°♋	
morning rise	9444 Jul 18 19:25	18°♋57'34	
asc. node	9444 Aug 01 22:48	0°♌07'08	
	9444 Aug 01 19:11	0°♌	
	9444 Sep 09 03:25	0°♍	
	9444 Oct 18 16:08	0°♎	
	9444 Nov 29 07:57	0°♏	
	9445 Jan 13 08:19	0°♐	
	9445 Mar 05 21:22	0°♑	
retrograde	9445 May 19 16:20	23°♑55'53	
opposition	9445 Jun 29 05:28	14°♑10'06	0°15'36
greatest brilliancy	9445 Jun 29 05:33	14°♑10'01	-1.3m
min. Earth dist.	9445 Jun 28 23:27	14°♑16'04	0.68106 AU
desc. node	9445 Jul 06 18:15	11°♑13'45	
direct	9445 Aug 09 04:54	4°♑22'33	
	9445 Oct 28 14:56	0°♒	
	9445 Dec 20 09:57	0°♓	
	9446 Feb 04 10:45	0°♈	
	9446 Mar 18 16:53	0°♉	
	9446 Apr 27 11:41	0°♊	
evening set	9446 May 16 05:41	14°♊34'39	
	9446 Jun 04 19:49	0°♋	
asc. node	9446 Jun 19 20:00	11°♋53'08	
	9446 Jul 12 16:35	0°♌	
conjunction	9446 Jul 25 10:04	10°♌02'32	0°25'11
minimum elong	9446 Jul 25 07:27	9°♌57'22	0°24'53
	9446 Aug 19 23:49	0°♍	
max. Earth dist.	9446 Sep 15 09:05	20°♍08'53	2.39223 AU
	9446 Sep 28 13:17	0°♎	
morning rise	9446 Oct 03 21:45	3°♎57'30	
	9446 Nov 09 01:35	0°♏	
	9446 Dec 23 02:14	0°♐	
	9447 Feb 08 09:35	0°♑	
	9447 Apr 02 10:20	0°♒	
desc. node	9447 May 24 17:08	21°♒59'10	
retrograde	9447 Jun 23 16:47	26°♒42'19	
opposition	9447 Aug 02 06:20	17°♒34'03	-2°20'58
greatest brilliancy	9447 Aug 02 12:21	17°♒28'11	-1.4m
min. Earth dist.	9447 Aug 05 19:18	16°♒11'11	0.66045 AU
direct	9447 Sep 12 21:34	7°♒30'35	
	9447 Nov 23 13:43	0°♓	
	9448 Jan 13 09:37	0°♈	
	9448 Feb 25 22:23	0°♉	
	9448 Apr 06 01:31	0°♊	
asc. node	9448 May 06 20:12	23°♊57'51	
	9448 May 14 12:03	0°♋	
	9448 Jun 21 11:37	0°♌	
evening set	9448 Jul 29 14:56	29°♌41'39	
	9448 Jul 30 00:31	0°♍	
	9448 Sep 07 22:14	0°♎	
conjunction	9448 Oct 01 10:43	17°♎03'08	1°06'39
minimum elong	9448 Oct 01 10:30	17°♎02'46	1°06'43
	9448 Oct 19 18:18	0°♏	
max. Earth dist.	9448 Nov 07 12:01	12°♏57'26	2.53076 AU
morning rise	9448 Nov 25 20:45	25°♏22'56	
	9448 Dec 02 18:51	0°♐	
	9449 Jan 18 01:35	0°♑	
	9449 Mar 07 20:07	0°♒	
desc. node	9449 Apr 10 13:26	19°♒32'17	
	9449 Apr 29 17:18	0°♓	
	9449 Jul 10 04:02	0°♈	
retrograde	9449 Aug 02 19:29	3°♈01'15	
	9449 Aug 24 18:34	30°℞♓	
opposition	9449 Sep 08 21:34	24°♓58'08	-4°43'00
greatest brilliancy	9449 Sep 10 01:04	24°♓32'28	-1.7m
min. Earth dist.	9449 Sep 16 01:17	22°♓18'01	0.57460 AU
direct	9449 Oct 19 05:53	15°♓20'34	
	9449 Dec 10 22:04	0°♈	
	9450 Jan 30 22:05	0°♉	
	9450 Mar 14 03:28	0°♊	
asc. node	9450 Mar 24 22:34	8°♊05'49	
	9450 Apr 22 12:52	0°♋	
	9450 May 31 05:04	0°♌	
	9450 Jul 09 10:40	0°♍	
	9450 Aug 19 02:13	0°♎	
evening set	9450 Sep 27 21:16	28°♎06'07	
	9450 Sep 30 15:18	0°♏	
	9450 Nov 14 03:30	0°♐	
conjunction	9450 Nov 18 16:50	3°♐00'09	0°47'54
minimum elong	9450 Nov 18 18:11	3°♐02'23	0°48'11
max. Earth dist.	9450 Dec 06 08:54	14°♐32'58	2.63160 AU
	9450 Dec 30 08:35	0°♑	
morning rise	9451 Jan 04 20:17	3°♑30'14	
	9451 Feb 15 20:53	0°♒	
desc. node	9451 Feb 26 07:36	6°♒30'12	
	9451 Apr 05 12:42	0°♓	
	9451 May 25 23:26	0°♈	
	9451 Jul 20 13:46	0°♉	
retrograde	9451 Sep 28 09:01	21°♉03'55	
opposition	9451 Oct 31 02:20	14°♉54'15	-5°25'30
greatest brilliancy	9451 Nov 01 20:03	14°♉20'39	-2.5m
min. Earth dist.	9451 Nov 08 12:48	12°♉12'43	0.43962 AU
direct	9451 Dec 05 13:20	7°♉26'42	
	9452 Feb 07 20:48	0°♊	
asc. node	9452 Feb 09 23:43	1°♊15'01	
	9452 Mar 24 15:30	0°♋	
	9452 May 05 06:46	0°♌	
	9452 Jun 15 14:18	0°♍	
	9452 Jul 27 22:49	0°♎	
	9452 Sep 09 21:42	0°♏	
	9452 Oct 25 10:39	0°♐	
evening set	9452 Nov 09 18:04	9°♐53'42	
	9452 Dec 11 03:46	0°♑	
conjunction	9452 Dec 25 23:04	9°♑25'02	0°09'35
minimum elong	9452 Dec 25 23:22	9°♑25'32	0°09'53
behind sun begin	9452 Dec 25 08:29	9°♑01'54	
behind sun end	9452 Dec 26 14:16	9°♑49'10	
max. Earth dist.	9452 Dec 28 19:48	11°♑14'09	2.67879 AU
desc. node	9453 Jan 13 03:49	20°♑58'02	
	9453 Jan 27 09:41	0°♒	
morning rise	9453 Feb 07 20:03	7°♒15'09	
	9453 Mar 15 14:28	0°♓	
	9453 May 01 10:36	0°♈	
	9453 Jun 16 22:04	0°♉	
	9453 Aug 02 10:26	0°♊	
	9453 Sep 19 11:40	0°♋	
	9453 Nov 18 14:12	0°♌	
retrograde	9453 Dec 16 23:18	5°♌01'07	
asc. node	9453 Dec 28 01:32	4°♌11'45	
min. Earth dist.	9454 Jan 13 17:11	0°♌30'12	0.36699 AU
	9454 Jan 15 14:17	30°℞♋	
opposition	9454 Jan 16 05:05	29°♋50'05	1°29'13
greatest brilliancy	9454 Jan 16 00:24	29°♋53'13	-3.1m
direct	9454 Feb 14 08:53	24°♋57'55	

	9454 Mar 15 00:43	0°♌	
	9454 May 14 20:20	0°♍	
	9454 Jul 02 15:42	0°♎	
	9454 Aug 19 04:08	0°♏	
	9454 Oct 05 20:45	0°♐	
	9454 Nov 22 18:15	0°♑	
desc. node	9454 Dec 01 02:17	5°♑13'48	
evening set	9454 Dec 16 19:42	15°♑07'04	
	9455 Jan 09 08:30	0°♒	
max. Earth dist.	9455 Jan 20 03:19	6°♒51'53	2.67078 AU
conjunction	9455 Jan 30 05:16	13°♒18'47	-0°30'37
minimum elong	9455 Jan 30 04:26	13°♒17'27	0°30'22
	9455 Feb 25 01:24	0°♓	
morning rise	9455 Mar 15 02:07	11°♓47'58	
	9455 Apr 11 11:09	0°♈	
	9455 May 25 09:33	0°♉	
	9455 Jul 06 21:50	0°♊	
	9455 Aug 17 06:12	0°♋	
	9455 Sep 27 02:59	0°♌	
	9455 Nov 08 00:59	0°♍	
asc. node	9455 Nov 15 00:59	4°♍47'26	
	9455 Dec 25 18:22	0°♎	
retrograde	9456 Feb 18 19:01	17°♎28'37	
min. Earth dist.	9456 Mar 17 23:53	11°♎57'03	0.47474 AU
greatest brilliancy	9456 Mar 24 19:16	9°♎31'41	-2.3m
opposition	9456 Mar 26 11:05	8°♎55'59	5°38'39
direct	9456 Apr 28 19:06	1°♎59'30	
	9456 Jul 20 13:30	0°♏	
	9456 Sep 12 17:50	0°♐	
desc. node	9456 Oct 18 03:03	20°♐50'31	
	9456 Nov 02 08:30	0°♑	
	9456 Dec 21 01:20	0°♒	
evening set	9457 Jan 20 18:19	19°♒31'48	
	9457 Feb 05 21:04	0°♓	
max. Earth dist.	9457 Feb 12 08:41	4°♓15'26	2.60837 AU
conjunction	9457 Mar 07 09:39	19°♓37'01	-1°01'03
minimum elong	9457 Mar 07 08:39	19°♓35'20	1°00'57
	9457 Mar 22 16:09	0°♈	
morning rise	9457 Apr 24 04:25	22°♈40'46	
	9457 May 04 10:37	0°♉	
	9457 Jun 14 10:08	0°♊	
	9457 Jul 24 01:00	0°♋	
	9457 Aug 31 23:00	0°♌	
asc. node	9457 Oct 01 20:17	23°♌44'27	
	9457 Oct 10 01:58	0°♍	
	9457 Nov 19 17:12	0°♎	
	9458 Jan 03 07:05	0°♏	
	9458 Mar 04 05:38	0°♐	
retrograde	9458 Apr 02 00:16	5°♐01'55	
	9458 Apr 29 00:01	30°℞♏	
min. Earth dist.	9458 May 06 05:42	27°♏18'28	0.60066 AU
opposition	9458 May 11 17:39	25°♏08'28	3°53'38
greatest brilliancy	9458 May 11 00:08	25°♏25'45	-1.6m
direct	9458 Jun 18 08:09	16°♏29'37	
	9458 Aug 11 17:39	0°♐	
desc. node	9458 Sep 05 05:35	11°♐11'03	
	9458 Oct 11 02:11	0°♑	
	9458 Dec 01 15:25	0°♒	
	9459 Jan 18 08:16	0°♓	
evening set	9459 Mar 01 11:58	28°♓12'43	
	9459 Mar 04 02:10	0°♈	
max. Earth dist.	9459 Mar 15 15:25	8°♈02'47	2.49695 AU
	9459 Apr 15 07:25	0°♉	
conjunction	9459 Apr 21 20:57	4°♉48'26	-1°04'00
minimum elong	9459 Apr 21 22:08	4°♉50'38	1°04'09
	9459 May 25 12:10	0°♊	
morning rise	9459 Jun 20 08:01	19°♊52'40	
	9459 Jul 03 07:40	0°♋	
	9459 Aug 10 12:24	0°♌	
asc. node	9459 Aug 19 15:40	7°♌10'21	
	9459 Sep 17 23:02	0°♍	
	9459 Oct 27 14:10	0°♎	
	9459 Dec 08 12:31	0°♏	
	9460 Jan 23 13:07	0°♐	
	9460 Mar 20 09:32	0°♑	
retrograde	9460 May 06 12:22	11°♑15'34	
min. Earth dist.	9460 Jun 14 08:34	2°♑02'31	0.67113 AU
opposition	9460 Jun 16 02:10	1°♑21'03	1°17'16
greatest brilliancy	9460 Jun 16 00:32	1°♑22'42	-1.3m
	9460 Jun 19 11:58	30°℞♐	
desc. node	9460 Jul 23 08:05	21°♐50'34	
direct	9460 Jul 26 09:17	21°♐47'07	
	9460 Sep 05 11:50	0°♑	
	9460 Nov 08 03:10	0°♒	
	9460 Dec 28 12:48	0°♓	
	9461 Feb 11 23:11	0°♈	
	9461 Mar 26 02:43	0°♉	
evening set	9461 Apr 20 15:35	19°♉04'16	
	9461 May 04 22:53	0°♊	
max. Earth dist.	9461 May 31 16:21	20°♊47'42	2.36934 AU
	9461 Jun 12 08:55	0°♋	
conjunction	9461 Jun 24 15:18	9°♋41'54	-0°08'40
minimum elong	9461 Jun 24 16:15	9°♋43'48	0°08'59
behind sun begin	9461 Jun 23 14:58	8°♋53'47	
behind sun end	9461 Jun 25 17:32	10°♋33'50	
asc. node	9461 Jul 06 13:39	19°♋09'02	
	9461 Jul 20 06:30	0°♌	
	9461 Aug 27 13:04	0°♍	
morning rise	9461 Sep 06 02:17	7°♍21'58	
	9461 Oct 06 00:45	0°♎	
	9461 Nov 16 12:04	0°♏	
	9461 Dec 30 17:10	0°♐	
	9462 Feb 16 22:52	0°♑	
	9462 Apr 15 13:15	0°♒	
retrograde	9462 Jun 09 17:11	14°♒01'30	
desc. node	9462 Jun 10 07:48	14°♒01'22	
opposition	9462 Jul 19 19:24	4°♒36'00	-1°21'04
greatest brilliancy	9462 Jul 19 21:07	4°♒34'18	-1.3m
min. Earth dist.	9462 Jul 21 20:45	3°♒47'26	0.67636 AU
	9462 Jul 31 22:22	30°℞♑	
direct	9462 Aug 30 08:34	24°♑35'22	
	9462 Oct 01 10:40	0°♒	
	9462 Dec 05 02:09	0°♓	
	9463 Jan 22 04:25	0°♈	
	9463 Mar 06 00:28	0°♉	
	9463 Apr 14 22:37	0°♊	
	9463 May 23 07:09	0°♋	
asc. node	9463 May 24 11:53	0°♋56'46	
	9463 Jun 30 04:39	0°♌	
evening set	9463 Jul 01 06:13	0°♌50'27	
	9463 Aug 07 14:19	0°♍	
conjunction	9463 Sep 08 10:30	24°♍09'05	1°00'27
minimum elong	9463 Sep 08 08:16	24°♍04'57	1°00'23
	9463 Sep 16 07:33	0°♎	
max. Earth dist.	9463 Oct 24 10:33	27°♎31'38	2.47843 AU
	9463 Oct 27 22:56	0°♏	
morning rise	9463 Nov 08 05:31	7°♏51'25	
	9463 Dec 10 21:15	0°♐	
	9464 Jan 26 09:00	0°♑	

	9464 Mar 16 03:59	0°♒	
desc. node	9464 Apr 27 04:22	22°♒47'19	
	9464 May 12 04:11	0°♓	
retrograde	9464 Jul 16 14:37	18°♓15'23	
opposition	9464 Aug 23 20:57	9°♓42'19	-3°51'35
greatest brilliancy	9464 Aug 24 14:38	9°♓25'26	-1.5m
min. Earth dist.	9464 Aug 29 16:25	7°♓29'08	0.61574 AU
	9464 Sep 28 06:30	30°℞♒	
direct	9464 Oct 04 00:28	29°♒46'53	
	9464 Oct 09 20:28	0°♓	
	9464 Dec 26 03:09	0°♈	
	9465 Feb 10 08:12	0°♉	
	9465 Mar 23 08:21	0°♊	
asc. node	9465 Apr 10 13:10	13°♊56'11	
	9465 May 01 04:40	0°♋	
	9465 Jun 08 11:37	0°♌	
	9465 Jul 17 08:31	0°♍	
	9465 Aug 26 15:12	0°♎	
evening set	9465 Sep 07 01:02	8°♎15'24	
	9465 Oct 07 19:53	0°♏	
conjunction	9465 Nov 01 16:16	17°♏00'55	0°59'04
minimum elong	9465 Nov 01 17:34	17°♏03'07	0°59'18
	9465 Nov 21 01:52	0°♐	
max. Earth dist.	9465 Nov 26 03:03	3°♐20'28	2.59831 AU
morning rise	9465 Dec 21 06:14	19°♐45'02	
	9466 Jan 06 05:21	0°♑	
	9466 Feb 23 01:07	0°♒	
desc. node	9466 Mar 14 22:58	12°♒10'32	
	9466 Apr 13 18:56	0°♓	
	9466 Jun 06 09:59	0°♈	
	9466 Aug 28 04:47	0°♉	
retrograde	9466 Sep 03 13:12	0°♉14'33	
	9466 Sep 09 17:56	30°℞♈	
opposition	9466 Oct 08 04:26	23°♈13'04	-5°35'54
greatest brilliancy	9466 Oct 09 21:57	22°♈36'44	-2.1m
min. Earth dist.	9466 Oct 16 18:57	20°♈13'26	0.49539 AU
direct	9466 Nov 15 03:54	14°♈35'36	
	9467 Jan 06 10:20	0°♉	
	9467 Feb 24 04:44	0°♊	
asc. node	9467 Feb 26 16:39	1°♊43'42	
	9467 Apr 06 16:48	0°♋	
	9467 May 16 13:19	0°♌	
	9467 Jun 25 17:06	0°♍	
	9467 Aug 06 04:16	0°♎	
	9467 Sep 18 10:18	0°♏	
evening set	9467 Oct 25 22:23	25°♏03'15	
	9467 Nov 02 11:13	0°♐	
conjunction	9467 Dec 12 18:30	26°♐04'25	0°25'16
minimum elong	9467 Dec 12 19:18	26°♐05'42	0°25'35
	9467 Dec 18 21:50	0°♑	
max. Earth dist.	9467 Dec 21 03:31	1°♑25'44	2.66695 AU
morning rise	9468 Jan 26 11:53	24°♑30'52	
desc. node	9468 Jan 30 17:43	27°♑11'51	
	9468 Feb 04 04:11	0°♒	
	9468 Mar 22 18:51	0°♓	
	9468 May 09 14:39	0°♈	
	9468 Jun 27 01:36	0°♉	
	9468 Aug 16 21:06	0°♊	
	9468 Oct 22 15:33	0°♋	
retrograde	9468 Nov 14 03:17	3°♋02'38	
	9468 Dec 06 17:17	30°℞♊	
opposition	9468 Dec 14 02:01	28°♊04'18	-2°18'37
greatest brilliancy	9468 Dec 14 12:34	27°♊57'07	-3.0m
min. Earth dist.	9468 Dec 17 13:35	27°♊07'32	0.37359 AU
direct	9469 Jan 13 19:26	22°♊44'11	
asc. node	9469 Jan 13 18:02	22°♊44'11	
	9469 Feb 16 19:28	0°♋	
	9469 Apr 13 09:58	0°♌	
	9469 May 29 05:47	0°♍	
	9469 Jul 13 03:23	0°♎	
	9469 Aug 27 17:48	0°♏	
	9469 Oct 13 08:35	0°♐	
	9469 Nov 29 16:12	0°♑	
evening set	9469 Dec 02 19:53	1°♑59'35	
desc. node	9469 Dec 17 14:53	11°♑20'38	
max. Earth dist.	9470 Jan 11 08:58	27°♑01'21	2.68042 AU
conjunction	9470 Jan 16 14:00	0°♒19'55	-0°15'39
minimum elong	9470 Jan 16 13:33	0°♒19'11	0°15'21
behind sun begin	9470 Jan 16 08:29	0°♒11'08	
behind sun end	9470 Jan 16 18:37	0°♒27'14	
	9470 Jan 16 01:28	0°♒	
morning rise	9470 Mar 01 01:47	28°♒10'49	
	9470 Mar 03 21:20	0°♓	
	9470 Apr 18 17:32	0°♈	
	9470 Jun 02 09:50	0°♉	
	9470 Jul 15 23:17	0°♊	
	9470 Aug 27 16:52	0°♋	
	9470 Oct 09 14:24	0°♌	
	9470 Nov 25 00:14	0°♍	
asc. node	9470 Dec 01 17:00	3°♍48'51	
retrograde	9471 Jan 28 08:16	22°♍54'00	
min. Earth dist.	9471 Feb 23 15:52	18°♍13'15	0.42104 AU
greatest brilliancy	9471 Mar 02 04:26	16°♍06'32	-2.6m
opposition	9471 Mar 03 18:02	15°♍35'54	5°16'30
direct	9471 Apr 03 23:09	9°♍35'56	
	9471 Jun 09 04:43	0°♎	
	9471 Aug 03 00:11	0°♏	
	9471 Sep 22 13:08	0°♐	
desc. node	9471 Nov 04 15:43	26°♐13'44	
	9471 Nov 10 18:58	0°♑	
	9471 Dec 28 22:36	0°♒	
evening set	9472 Jan 07 14:56	6°♒07'56	
max. Earth dist.	9472 Feb 03 15:37	23°♒28'49	2.63913 AU
	9472 Feb 13 15:54	0°♓	
conjunction	9472 Feb 21 09:15	5°♓03'57	-0°51'17
minimum elong	9472 Feb 21 08:07	5°♓02'05	0°51'08
	9472 Mar 29 15:30	0°♈	
morning rise	9472 Apr 07 00:26	5°♈43'26	
	9472 May 11 19:08	0°♉	
	9472 Jun 22 06:20	0°♊	
	9472 Aug 01 09:28	0°♋	
	9472 Sep 09 19:28	0°♌	
asc. node	9472 Oct 18 14:35	29°♌19'18	
	9472 Oct 19 12:28	0°♍	
	9472 Nov 30 05:42	0°♎	
	9473 Jan 17 12:40	0°♏	
retrograde	9473 Mar 17 15:22	18°♏44'13	
min. Earth dist.	9473 Apr 18 15:26	11°♏46'52	0.55676 AU
greatest brilliancy	9473 Apr 24 09:38	9°♏33'35	-1.8m
opposition	9473 Apr 25 12:42	9°♏07'23	4°47'25
direct	9473 May 31 15:59	1°♏01'05	
	9473 Aug 26 09:01	0°♐	
desc. node	9473 Sep 21 18:07	14°♐02'03	
	9473 Oct 19 23:40	0°♑	
	9473 Dec 09 02:08	0°♒	
	9474 Jan 25 08:17	0°♓	
evening set	9474 Feb 13 04:57	12°♓27'09	
max. Earth dist.	9474 Mar 01 23:54	23°♓47'02	2.54562 AU
	9474 Mar 11 01:32	0°♈	

conjunction	9474 Apr 02 14:12	15°♈45'00	-1°07'54
minimum elong	9474 Apr 02 14:11	15°♈44'59	1°07'57
	9474 Apr 22 11:05	0°♉	
morning rise	9474 May 26 04:18	24°♉54'45	
	9474 Jun 01 22:17	0°♊	
	9474 Jul 11 00:20	0°♋	
	9474 Aug 18 10:22	0°♌	
asc. node	9474 Sep 05 09:50	14°♌01'48	
	9474 Sep 26 01:08	0°♍	
	9474 Nov 04 21:16	0°♎	
	9474 Dec 17 08:00	0°♏	
	9475 Feb 03 06:49	0°♐	
retrograde	9475 Apr 24 03:44	28°♐05'48	
min. Earth dist.	9475 May 31 08:26	19°♐23'44	0.65117 AU
opposition	9475 Jun 03 13:47	18°♐06'38	2°18'52
greatest brilliancy	9475 Jun 03 07:46	18°♐12'38	-1.4m
direct	9475 Jul 12 23:48	8°♐50'20	
desc. node	9475 Aug 09 20:30	12°♐55'10	
	9475 Sep 22 23:49	0°♑	
	9475 Nov 18 04:19	0°♒	
	9476 Jan 06 04:33	0°♓	
	9476 Feb 20 06:13	0°♈	
evening set	9476 Mar 29 15:33	27°♈15'48	
	9476 Apr 02 09:19	0°♉	
max. Earth dist.	9476 Apr 15 06:50	9°♉31'59	2.41403 AU
	9476 May 12 08:02	0°♊	
conjunction	9476 May 27 09:42	11°♊38'11	-0°38'27
minimum elong	9476 May 27 12:26	11°♊43'31	0°38'43
	9476 Jun 19 21:00	0°♋	
asc. node	9476 Jul 23 05:37	26°♋21'03	
	9476 Jul 27 20:27	0°♌	
morning rise	9476 Aug 05 19:06	7°♌03'14	
	9476 Sep 04 03:30	0°♍	
	9476 Oct 13 14:57	0°♎	
	9476 Nov 24 03:28	0°♏	
	9477 Jan 07 17:40	0°♐	
	9477 Feb 26 14:07	0°♑	
	9477 May 10 18:28	0°♒	
retrograde	9477 May 27 06:31	1°♒34'09	
	9477 Jun 11 20:56	30°℞♑	
desc. node	9477 Jun 26 21:27	25°♑40'00	
opposition	9477 Jul 06 16:37	21°♑54'43	-0°20'16
greatest brilliancy	9477 Jul 06 16:40	21°♑54'40	-1.3m
min. Earth dist.	9477 Jul 07 06:16	21°♑41'12	0.68230 AU
direct	9477 Aug 16 22:08	12°♑01'29	
	9477 Oct 20 07:34	0°♒	
	9477 Dec 14 15:52	0°♓	
	9478 Jan 30 07:56	0°♈	
	9478 Mar 13 18:52	0°♉	
	9478 Apr 22 14:58	0°♊	
	9478 May 30 23:07	0°♋	
evening set	9478 Jun 01 03:26	0°♋56'00	
asc. node	9478 Jun 10 05:11	8°♋07'16	
	9478 Jul 07 19:32	0°♌	
conjunction	9478 Aug 11 12:31	27°♌13'08	0°41'37
minimum elong	9478 Aug 11 09:01	27°♌06'21	0°41'22
	9478 Aug 15 02:45	0°♍	
	9478 Sep 23 16:27	0°♎	
max. Earth dist.	9478 Oct 03 11:23	7°♎13'12	2.42221 AU
morning rise	9478 Oct 17 18:15	17°♎35'51	
	9478 Nov 04 04:24	0°♏	
	9478 Dec 18 02:33	0°♐	
	9479 Feb 02 23:41	0°♑	
	9479 Mar 26 10:03	0°♒	
desc. node	9479 May 14 19:17	23°♒41'26	
	9479 Jun 02 04:37	0°♓	
retrograde	9479 Jul 02 02:17	4°♓40'08	
	9479 Jul 29 11:56	30°℞♒	
opposition	9479 Aug 10 05:52	25°♒43'10	-2°55'08
greatest brilliancy	9479 Aug 10 15:27	25°♒33'53	-1.4m
min. Earth dist.	9479 Aug 14 14:21	24°♒01'51	0.64736 AU
direct	9479 Sep 20 18:29	15°♒40'34	
	9479 Nov 14 01:50	0°♓	
	9480 Jan 07 04:16	0°♈	
	9480 Feb 20 10:54	0°♉	
	9480 Mar 31 20:33	0°♊	
asc. node	9480 Apr 27 05:52	20°♊26'27	
	9480 May 09 10:10	0°♋	
	9480 Jun 16 11:42	0°♌	
	9480 Jul 25 02:30	0°♍	
evening set	9480 Aug 13 19:12	14°♍56'11	
	9480 Sep 03 02:14	0°♎	
conjunction	9480 Oct 13 11:56	28°♎57'12	1°05'48
minimum elong	9480 Oct 13 12:32	28°♎58'15	1°05'56
	9480 Oct 14 23:52	0°♏	
max. Earth dist.	9480 Nov 14 21:33	21°♏12'05	2.55665 AU
	9480 Nov 28 00:58	0°♐	
morning rise	9480 Dec 05 12:39	4°♐57'37	
	9481 Jan 13 04:49	0°♑	
	9481 Mar 02 12:28	0°♒	
desc. node	9481 Mar 31 13:55	17°♒16'05	
	9481 Apr 22 22:04	0°♓	
	9481 Jun 22 05:22	0°♈	
retrograde	9481 Aug 13 12:26	12°♈35'23	
opposition	9481 Sep 18 19:16	4°♈51'50	-5°07'51
greatest brilliancy	9481 Sep 20 04:30	4°♈21'20	-1.8m
min. Earth dist.	9481 Sep 26 14:14	2°♈00'38	0.54818 AU
	9481 Oct 02 11:12	30°℞♓	
direct	9481 Oct 28 11:06	25°♓30'10	
	9481 Nov 24 12:53	0°♈	
	9482 Jan 23 06:10	0°♉	
	9482 Mar 07 19:32	0°♊	
asc. node	9482 Mar 15 07:18	5°♊30'18	
	9482 Apr 16 17:43	0°♋	
	9482 May 25 17:19	0°♌	
	9482 Jul 04 04:51	0°♍	
	9482 Aug 14 01:46	0°♎	
	9482 Sep 25 19:18	0°♏	
evening set	9482 Oct 08 13:54	8°♏42'37	
	9482 Nov 09 10:47	0°♐	
conjunction	9482 Nov 27 17:55	11°♐58'41	0°40'05
minimum elong	9482 Nov 27 19:07	12°♐00'39	0°40'23
max. Earth dist.	9482 Dec 11 21:58	21°♐09'09	2.64640 AU
	9482 Dec 25 16:36	0°♑	
morning rise	9483 Jan 12 20:37	11°♑34'30	
	9483 Feb 11 01:32	0°♒	
desc. node	9483 Feb 16 08:44	3°♒19'23	
	9483 Mar 31 06:21	0°♓	
	9483 May 19 12:50	0°♈	
	9483 Jul 10 11:29	0°♉	
	9483 Sep 14 01:28	0°♊	
retrograde	9483 Oct 14 09:25	5°♊03'47	
	9483 Nov 12 22:12	30°℞♉	
opposition	9483 Nov 14 21:43	29°♉24'29	-4°47'38
greatest brilliancy	9483 Nov 16 08:50	28°♉57'59	-2.7m
min. Earth dist.	9483 Nov 22 10:51	27°♉08'40	0.41119 AU
direct	9483 Dec 18 16:45	22°♉44'17	
	9484 Jan 21 08:42	0°♊	
asc. node	9484 Jan 31 09:44	4°♊23'04	
	9484 Mar 15 10:46	0°♋	

	9484 Apr 28 01:27	0°♌	
	9484 Jun 09 08:42	0°♍	
	9484 Jul 22 08:52	0°♎	
	9484 Sep 04 18:31	0°♏	
	9484 Oct 20 14:58	0°♐	
evening set	9484 Nov 18 08:02	18°♐25'28	
	9484 Dec 06 12:11	0°♑	
conjunction	9485 Jan 02 21:26	17°♑22'58	0°00'12
minimum elong	9485 Jan 02 21:30	17°♑23'03	0°00'31
behind sun begin	9485 Jan 02 03:05	16°♑53'53	
behind sun end	9485 Jan 03 15:54	17°♑52'13	
max. Earth dist.	9485 Jan 02 19:56	17°♑20'37	2.68166 AU
desc. node	9485 Jan 03 06:17	17°♑36'57	
	9485 Jan 22 18:37	0°♒	
morning rise	9485 Feb 15 12:08	15°♒05'44	
	9485 Mar 10 19:35	0°♓	
	9485 Apr 26 05:49	0°♈	
	9485 Jun 10 23:07	0°♉	
	9485 Jul 26 03:21	0°♊	
	9485 Sep 09 10:47	0°♋	
	9485 Oct 27 18:10	0°♌	
asc. node	9485 Dec 18 10:48	21°♌55'07	
retrograde	9486 Jan 02 14:50	23°♌30'22	
min. Earth dist.	9486 Jan 28 22:11	19°♌11'13	0.37909 AU
greatest brilliancy	9486 Feb 02 10:08	17°♌54'20	-2.9m
opposition	9486 Feb 03 04:03	17°♌41'29	3°22'37
direct	9486 Mar 04 18:53	12°♌34'17	
	9486 May 02 06:41	0°♍	
	9486 Jun 25 00:41	0°♎	
	9486 Aug 13 04:39	0°♏	
	9486 Sep 30 16:14	0°♐	
	9486 Nov 17 23:23	0°♑	
desc. node	9486 Nov 21 04:49	2°♑00'42	
evening set	9486 Dec 24 17:17	23°♑01'45	
	9487 Jan 04 17:49	0°♒	
max. Earth dist.	9487 Jan 25 07:24	13°♒06'23	2.66177 AU
conjunction	9487 Feb 07 03:00	21°♒21'15	-0°38'48
minimum elong	9487 Feb 07 02:00	21°♒19'37	0°38'35
	9487 Feb 20 10:48	0°♓	
morning rise	9487 Mar 23 10:45	20°♓26'18	
	9487 Apr 06 16:41	0°♈	
	9487 May 20 07:54	0°♉	
	9487 Jul 01 10:03	0°♊	
	9487 Aug 11 06:10	0°♋	
	9487 Sep 20 10:58	0°♌	
	9487 Oct 31 06:14	0°♍	
asc. node	9487 Nov 05 07:28	3°♍36'35	
	9487 Dec 14 11:38	0°♎	
retrograde	9488 Feb 29 13:04	29°♎59'27	
min. Earth dist.	9488 Mar 30 02:41	23°♎55'37	0.50544 AU
greatest brilliancy	9488 Apr 05 15:26	21°♎30'48	-2.1m
opposition	9488 Apr 07 03:39	20°♎57'06	5°28'01
direct	9488 May 11 13:49	13°♎32'35	
	9488 Jul 10 07:36	0°♏	
	9488 Sep 06 09:55	0°♐	
desc. node	9488 Oct 08 06:28	18°♐15'34	
	9488 Oct 28 03:16	0°♑	
	9488 Dec 16 06:41	0°♒	
evening set	9489 Jan 29 00:28	27°♒53'08	
	9489 Feb 01 06:13	0°♓	
max. Earth dist.	9489 Feb 18 10:19	11°♓19'47	2.58823 AU
conjunction	9489 Mar 16 09:51	28°♓52'57	-1°05'02
minimum elong	9489 Mar 16 09:05	28°♓51'38	1°05'00
	9489 Mar 18 00:58	0°♈	

	9489 Apr 29 16:36	0°♉	
morning rise	9489 May 04 20:30	3°♉43'44	
	9489 Jun 09 11:39	0°♊	
	9489 Jul 18 21:37	0°♋	
	9489 Aug 26 14:25	0°♌	
asc. node	9489 Sep 22 04:14	20°♌34'18	
	9489 Oct 04 11:23	0°♍	
	9489 Nov 13 16:43	0°♎	
	9489 Dec 27 03:27	0°♏	
	9490 Feb 17 13:49	0°♐	
retrograde	9490 Apr 10 07:37	14°♐05'25	
min. Earth dist.	9490 May 15 15:50	5°♐59'15	0.62142 AU
opposition	9490 May 20 08:33	4°♐07'25	3°19'40
greatest brilliancy	9490 May 19 19:45	4°♐20'07	-1.5m
	9490 May 31 09:29	30°℞♏	
direct	9490 Jun 27 16:00	25°♏13'34	
	9490 Jul 27 20:46	0°♐	
desc. node	9490 Aug 26 09:12	10°♐53'35	
	9490 Oct 04 12:52	0°♑	
	9490 Nov 26 09:14	0°♒	
	9491 Jan 13 12:27	0°♓	
	9491 Feb 27 09:22	0°♈	
evening set	9491 Mar 11 10:09	8°♈22'39	
max. Earth dist.	9491 Mar 25 02:09	18°♈03'48	2.46812 AU
	9491 Apr 10 14:26	0°♉	
conjunction	9491 May 03 23:44	17°♉19'32	-0°57'49
minimum elong	9491 May 04 01:43	17°♉23'14	0°58'02
	9491 May 20 17:27	0°♊	
	9491 Jun 28 10:52	0°♋	
morning rise	9491 Jul 06 09:02	6°♋13'13	
	9491 Aug 05 13:29	0°♌	
asc. node	9491 Aug 10 00:54	3°♌31'27	
	9491 Sep 12 22:03	0°♍	
	9491 Oct 22 10:32	0°♎	
	9491 Dec 03 02:47	0°♏	
	9492 Jan 17 09:17	0°♐	
	9492 Mar 10 08:37	0°♑	
retrograde	9492 May 14 02:18	19°♑04'12	
opposition	9492 Jun 23 15:47	9°♑13'55	0°41'05
min. Earth dist.	9492 Jun 22 17:36	9°♑36'01	0.67791 AU
greatest brilliancy	9492 Jun 23 15:26	9°♑14'16	-1.3m
desc. node	9492 Jul 13 10:38	2°♑18'39	
	9492 Jul 25 17:25	30°℞♐	
direct	9492 Aug 03 08:14	29°♐32'00	
	9492 Aug 12 07:15	0°♑	
	9492 Nov 01 10:03	0°♒	
	9492 Dec 23 04:20	0°♓	
	9493 Feb 07 00:21	0°♈	
	9493 Mar 21 06:40	0°♉	
	9493 Apr 30 02:59	0°♊	
evening set	9493 May 04 13:51	3°♊26'07	
	9493 Jun 07 12:29	0°♋	
asc. node	9493 Jun 26 21:36	15°♋20'45	
conjunction	9493 Jul 11 19:26	27°♋09'41	0°10'49
minimum elong	9493 Jul 11 18:15	27°♋07'20	0°10'30
behind sun begin	9493 Jul 10 18:34	26°♋20'28	
behind sun end	9493 Jul 12 17:56	27°♋54'12	
	9493 Jul 15 09:30	0°♌	
max. Earth dist.	9493 Aug 19 04:25	27°♌18'21	2.37173 AU
	9493 Aug 22 15:48	0°♍	
morning rise	9493 Sep 22 06:48	23°♍22'42	
	9493 Oct 01 03:27	0°♎	
	9493 Nov 11 13:38	0°♏	
	9493 Dec 25 14:02	0°♐	
	9494 Feb 11 03:05	0°♑	

	9494 Apr 06 11:21	0°♒	
desc. node	9494 May 31 09:26	20°♒04'27	
retrograde	9494 Jun 17 15:39	21°♒44'55	
opposition	9494 Jul 27 10:54	12°♒28'30	-1°56'16
greatest brilliancy	9494 Jul 27 14:44	12°♒24'44	-1.3m
min. Earth dist.	9494 Jul 30 07:41	11°♒21'04	0.66886 AU
direct	9494 Sep 07 01:24	2°♒25'39	
	9494 Nov 27 23:03	0°♓	
	9495 Jan 16 13:25	0°♈	
	9495 Feb 28 20:04	0°♉	
	9495 Apr 09 21:49	0°♊	
asc. node	9495 May 14 20:59	27°♊16'35	
	9495 May 18 07:50	0°♋	
	9495 Jun 25 06:09	0°♌	
evening set	9495 Jul 18 01:37	17°♌53'35	
	9495 Aug 02 16:45	0°♍	
	9495 Sep 11 11:21	0°♎	
conjunction	9495 Sep 22 10:52	8°♎03'03	1°05'20
minimum elong	9495 Sep 22 09:53	8°♎01'14	1°05'22
	9495 Oct 23 03:48	0°♏	
max. Earth dist.	9495 Nov 02 14:21	7°♏16'32	2.50806 AU
morning rise	9495 Nov 19 02:25	18°♏35'30	
	9495 Dec 06 01:48	0°♐	
	9496 Jan 21 08:44	0°♑	
	9496 Mar 10 10:51	0°♒	
desc. node	9496 Apr 17 06:00	21°♒25'08	
	9496 May 03 14:57	0°♓	
retrograde	9496 Jul 26 04:17	27°♓00'43	
opposition	9496 Sep 01 19:21	18°♓43'20	-4°22'05
greatest brilliancy	9496 Sep 02 18:23	18°♓21'34	-1.6m
min. Earth dist.	9496 Sep 08 08:33	16°♓14'50	0.59418 AU
direct	9496 Oct 12 12:49	8°♓56'11	
	9496 Dec 17 10:20	0°♈	
	9497 Feb 03 23:20	0°♉	
	9497 Mar 17 15:22	0°♊	
asc. node	9497 Mar 31 23:25	10°♊51'04	
	9497 Apr 25 18:57	0°♋	
	9497 Jun 03 06:24	0°♌	
	9497 Jul 12 06:57	0°♍	
	9497 Aug 21 17:11	0°♎	
evening set	9497 Sep 19 04:29	20°♎20'18	
	9497 Oct 03 00:54	0°♏	
conjunction	9497 Nov 11 13:39	26°♏48'37	0°52'59
minimum elong	9497 Nov 11 15:02	26°♏50'55	0°53'16
	9497 Nov 16 09:00	0°♐	
max. Earth dist.	9497 Dec 02 03:25	10°♐22'34	2.61767 AU
morning rise	9497 Dec 29 16:43	28°♐12'13	
	9498 Jan 01 12:04	0°♑	
	9498 Feb 18 02:31	0°♒	
desc. node	9498 Mar 05 00:14	9°♒13'18	
	9498 Apr 08 03:42	0°♓	
	9498 May 29 16:36	0°♈	
	9498 Jul 28 18:46	0°♉	
retrograde	9498 Sep 17 00:12	12°♉04'02	
opposition	9498 Oct 20 15:23	5°♉30'11	-5°36'13
greatest brilliancy	9498 Oct 22 10:26	4°♉54'02	-2.3m
min. Earth dist.	9498 Oct 29 08:27	2°♉36'14	0.46434 AU
	9498 Nov 07 07:05	30°℞♈	
direct	9498 Nov 26 07:38	27°♈28'31	
	9498 Dec 15 18:01	0°♉	
	9499 Feb 15 05:28	0°♊	
asc. node	9499 Feb 17 00:56	1°♊10'11	
	9499 Mar 30 14:34	0°♋	
	9499 May 10 07:30	0°♌	
	9499 Jun 20 00:16	0°♍	

	9499 Jul 31 21:26	0°♎	
	9499 Sep 13 11:02	0°♏	
	9499 Oct 28 17:22	0°♐	
evening set	9499 Nov 04 02:00	4°♐08'25	
	9499 Dec 14 06:38	0°♑	
conjunction	9499 Dec 20 22:38	4°♑15'01	0°16'08
minimum elong	9499 Dec 20 23:09	4°♑15'51	0°16'29
max. Earth dist.	9499 Dec 26 06:56	7°♑39'11	2.67456 AU
desc. node	9500 Jan 20 19:47	23°♑51'43	
	9500 Jan 30 12:20	0°♒	
morning rise	9500 Feb 03 03:10	2°♒17'29	
	9500 Mar 18 21:15	0°♓	
	9500 May 05 03:01	0°♈	
	9500 Jun 21 08:56	0°♉	
	9500 Aug 08 08:32	0°♊	
	9500 Sep 29 04:03	0°♋	
retrograde	9500 Dec 03 20:03	21°♋12'59	
opposition	9501 Jan 02 14:44	16°♋17'04	-0°11'43
greatest brilliancy	9501 Jan 02 15:08	16°♋16'48	-3.1m
min. Earth dist.	9501 Jan 02 19:31	16°♋13'54	0.36525 AU
asc. node	9501 Jan 05 02:19	15°♋37'53	
direct	9501 Feb 01 01:45	11°♋21'55	
	9501 Apr 01 06:07	0°♌	
	9501 May 21 23:17	0°♍	
	9501 Jul 07 15:38	0°♎	
	9501 Aug 23 04:30	0°♏	
	9501 Oct 09 08:17	0°♐	
	9501 Nov 25 22:57	0°♑	
desc. node	9501 Dec 08 17:55	8°♑03'10	
evening set	9501 Dec 11 20:57	10°♑01'22	
	9502 Jan 12 11:00	0°♒	
max. Earth dist.	9502 Jan 17 09:48	3°♒08'49	2.67616 AU
conjunction	9502 Jan 25 08:50	8°♒13'07	-0°24'33
minimum elong	9502 Jan 25 08:08	8°♒12'01	0°24'16
	9502 Feb 28 05:38	0°♓	
morning rise	9502 Mar 09 23:47	6°♓20'48	
	9502 Apr 14 20:25	0°♈	
	9502 May 29 03:11	0°♉	
	9502 Jul 11 02:16	0°♊	
	9502 Aug 22 00:05	0°♋	
	9502 Oct 02 13:53	0°♌	
	9502 Nov 14 18:58	0°♍	
asc. node	9502 Nov 23 02:27	5°♍24'12	
	9503 Jan 07 07:01	0°♎	
retrograde	9503 Feb 10 23:21	7°♎48'33	
min. Earth dist.	9503 Mar 10 03:36	2°♎41'42	0.45005 AU
greatest brilliancy	9503 Mar 16 23:45	0°♎21'15	-2.4m
opposition	9503 Mar 18 16:21	29°♍46'10	5°38'00
	9503 Mar 18 00:18	30°℞♍	
direct	9503 Apr 20 02:10	23°♍14'17	
	9503 May 25 01:07	0°♎	
	9503 Jul 27 10:32	0°♏	
	9503 Sep 17 19:02	0°♐	
desc. node	9503 Oct 26 18:19	23°♐18'51	
	9503 Nov 06 18:25	0°♑	
	9503 Dec 25 05:45	0°♒	
evening set	9504 Jan 16 15:44	14°♒13'13	
max. Earth dist.	9504 Feb 10 05:19	0°♓06'33	2.62317 AU
	9504 Feb 10 01:18	0°♓	
conjunction	9504 Mar 01 19:51	13°♓42'46	-0°57'23
minimum elong	9504 Mar 01 18:45	13°♓40'56	0°57'16
	9504 Mar 25 23:15	0°♈	
morning rise	9504 Apr 17 12:28	15°♈34'35	
	9504 May 07 22:45	0°♉	

	9504 Jun 18 04:02	0°♊	
	9504 Jul 28 00:42	0°♋	
	9504 Sep 05 03:44	0°♌	
asc. node	9504 Oct 09 22:33	26°♌34'31	
	9504 Oct 14 11:27	0°♍	
	9504 Nov 24 10:35	0°♎	
	9505 Jan 09 00:41	0°♏	
retrograde	9505 Mar 27 14:03	28°♏44'00	
min. Earth dist.	9505 Apr 29 20:12	21°♏20'10	0.58198 AU
opposition	9505 May 05 23:19	18°♏56'09	4°17'32
greatest brilliancy	9505 May 05 01:42	19°♏17'21	-1.7m
direct	9505 Jun 11 22:14	10°♏31'03	
	9505 Aug 18 15:43	0°♐	
desc. node	9505 Sep 12 20:39	12°♐26'42	
	9505 Oct 15 03:18	0°♑	
	9505 Dec 05 01:37	0°♒	
	9506 Jan 21 15:02	0°♓	
evening set	9506 Feb 23 07:08	21°♓42'40	
	9506 Mar 07 09:52	0°♈	
max. Earth dist.	9506 Mar 10 11:36	2°♈07'20	2.51947 AU
conjunction	9506 Apr 14 04:32	26°♈41'05	-1°06'40
minimum elong	9506 Apr 14 05:11	26°♈42'15	1°06'47
	9506 Apr 18 18:16	0°♉	
	9506 May 29 02:38	0°♊	
morning rise	9506 Jun 09 19:18	8°♊55'03	
	9506 Jul 07 01:30	0°♋	
	9506 Aug 14 08:32	0°♌	
asc. node	9506 Aug 27 17:31	10°♌28'48	
	9506 Sep 21 20:16	0°♍	
	9506 Oct 31 12:13	0°♎	
	9506 Dec 12 13:12	0°♏	
	9507 Jan 28 02:35	0°♐	
	9507 Mar 30 08:39	0°♑	
retrograde	9507 May 02 20:57	6°♑12'19	
	9507 Jun 02 18:29	30°℞♐	
min. Earth dist.	9507 Jun 09 23:22	27°♐12'47	0.66341 AU
opposition	9507 Jun 12 09:15	26°♐15'03	1°42'53
greatest brilliancy	9507 Jun 12 06:00	26°♐18'17	-1.4m
direct	9507 Jul 22 07:12	16°♐48'36	
desc. node	9507 Jul 31 23:38	17°♐21'07	
	9507 Sep 14 09:37	0°♑	
	9507 Nov 13 06:10	0°♒	
	9508 Jan 02 02:23	0°♓	
	9508 Feb 16 10:27	0°♈	
	9508 Mar 29 15:18	0°♉	
evening set	9508 Apr 11 16:04	9°♉38'11	
max. Earth dist.	9508 May 05 03:10	27°♉22'06	2.38680 AU
	9508 May 08 13:32	0°♊	
conjunction	9508 Jun 12 19:26	27°♊26'32	-0°22'37
minimum elong	9508 Jun 12 21:34	27°♊30'44	0°22'55
	9508 Jun 16 01:23	0°♋	
asc. node	9508 Jul 14 14:57	22°♋35'25	
	9508 Jul 23 23:43	0°♌	
morning rise	9508 Aug 24 15:20	24°♌52'14	
	9508 Aug 31 05:44	0°♍	
	9508 Oct 09 16:07	0°♎	
	9508 Nov 20 02:11	0°♏	
	9509 Jan 03 08:32	0°♐	
	9509 Feb 21 01:04	0°♑	
	9509 Apr 22 20:29	0°♒	
retrograde	9509 Jun 04 22:59	9°♒12'00	
desc. node	9509 Jun 18 00:03	8°♒06'45	
	9509 Jul 14 08:14	30°℞♑	
opposition	9509 Jul 15 04:39	29°♑39'51	-0°56'01
greatest brilliancy	9509 Jul 15 05:19	29°♑39'11	-1.3m
min. Earth dist.	9509 Jul 16 13:45	29°♑07'09	0.68022 AU
direct	9509 Aug 25 14:35	19°♑42'04	
	9509 Oct 10 19:56	0°♒	
	9509 Dec 09 12:33	0°♓	
	9510 Jan 26 00:46	0°♈	
	9510 Mar 09 18:18	0°♉	
	9510 Apr 18 16:26	0°♊	
	9510 May 27 01:20	0°♋	
asc. node	9510 Jun 01 13:12	4°♋20'45	
evening set	9510 Jun 18 22:35	18°♋07'53	
	9510 Jul 03 22:20	0°♌	
	9510 Aug 11 06:13	0°♍	
conjunction	9510 Aug 28 16:44	13°♍21'33	0°54'01
minimum elong	9510 Aug 28 13:40	13°♍15'43	0°53'52
	9510 Sep 19 20:47	0°♎	
max. Earth dist.	9510 Oct 17 10:53	20°♎06'35	2.45346 AU
morning rise	9510 Oct 31 07:10	29°♎56'31	
	9510 Oct 31 09:09	0°♏	
	9510 Dec 14 05:32	0°♐	
	9511 Jan 29 18:59	0°♑	
	9511 Mar 21 02:14	0°♒	
desc. node	9511 May 05 20:51	23°♒51'30	
	9511 May 19 20:07	0°♓	
retrograde	9511 Jul 11 19:06	12°♓49'07	
opposition	9511 Aug 19 11:09	4°♓04'40	-3°28'18
greatest brilliancy	9511 Aug 20 01:02	3°♓51'19	-1.5m
min. Earth dist.	9511 Aug 24 14:38	2°♓05'43	0.63109 AU
	9511 Aug 30 05:59	30°℞♒	
direct	9511 Sep 29 19:08	24°♒04'56	
	9511 Nov 01 12:16	0°♓	
	9512 Jan 01 09:27	0°♈	
	9512 Feb 15 17:34	0°♉	
	9512 Mar 27 11:38	0°♊	
asc. node	9512 Apr 18 13:45	16°♊59'55	
	9512 May 05 05:06	0°♋	
	9512 Jun 12 09:18	0°♌	
	9512 Jul 21 02:33	0°♍	
evening set	9512 Aug 28 23:01	29°♍05'11	
	9512 Aug 30 04:58	0°♎	
	9512 Oct 11 05:10	0°♏	
conjunction	9512 Oct 25 16:31	10°♏00'14	1°02'36
minimum elong	9512 Oct 25 17:38	10°♏02'08	1°02'47
max. Earth dist.	9512 Nov 22 13:38	28°♏50'17	2.58076 AU
	9512 Nov 24 07:34	0°♐	
morning rise	9512 Dec 15 15:47	14°♐02'44	
	9513 Jan 09 09:49	0°♑	
	9513 Feb 26 09:13	0°♒	
desc. node	9513 Mar 22 15:46	14°♒41'43	
	9513 Apr 17 16:47	0°♓	
	9513 Jun 12 08:29	0°♈	
retrograde	9513 Aug 25 23:45	22°♈46'15	
opposition	9513 Sep 30 09:45	15°♈24'34	-5°26'41
greatest brilliancy	9513 Oct 02 00:03	14°♈50'11	-2.0m
min. Earth dist.	9513 Oct 08 17:22	12°♈26'20	0.51977 AU
direct	9513 Nov 08 05:05	6°♈24'30	
	9514 Jan 15 01:21	0°♉	
	9514 Mar 01 22:25	0°♊	
asc. node	9514 Mar 06 17:24	3°♊25'26	
	9514 Apr 11 14:58	0°♋	
	9514 May 21 00:42	0°♌	
	9514 Jun 29 19:31	0°♍	
	9514 Aug 09 22:39	0°♎	
	9514 Sep 21 21:34	0°♏	
evening set	9514 Oct 19 16:30	18°♏44'24	
	9514 Nov 05 16:58	0°♐	

conjunction	9514 Dec 07 10:55	20°♐38'55	0°31'34
minimum elong	9514 Dec 07 11:55	20°♐40'31	0°31'55
max. Earth dist.	9514 Dec 18 07:17	27°♐37'10	2.65891 AU
	9514 Dec 22 00:29	0°♑	
morning rise	9515 Jan 21 17:00	19°♑31'11	
desc. node	9515 Feb 07 10:28	0°♒04'52	
	9515 Feb 07 07:23	0°♒	
	9515 Mar 27 03:28	0°♓	
	9515 May 14 12:39	0°♈	
	9515 Jul 03 05:22	0°♉	
	9515 Aug 26 14:05	0°♊	
retrograde	9515 Nov 01 19:30	20°♊38'09	
opposition	9515 Dec 02 06:24	15°♊25'23	-3°36'53
greatest brilliancy	9515 Dec 03 04:48	15°♊09'28	-2.9m
min. Earth dist.	9515 Dec 07 22:11	13°♊49'14	0.38742 AU
direct	9516 Jan 03 08:01	9°♊32'26	
asc. node	9516 Jan 22 19:30	12°♊07'41	
	9516 Mar 04 02:45	0°♋	
	9516 Apr 20 18:40	0°♌	
	9516 Jun 03 15:35	0°♍	
	9516 Jul 17 12:49	0°♎	
	9516 Aug 31 12:09	0°♏	
	9516 Oct 16 17:19	0°♐	
evening set	9516 Nov 27 16:42	26°♐45'12	
	9516 Dec 02 19:33	0°♑	
desc. node	9516 Dec 25 07:12	14°♑14'36	
max. Earth dist.	9517 Jan 08 20:34	23°♑28'10	2.68206 AU
conjunction	9517 Jan 11 17:57	25°♑18'11	-0°09'11
minimum elong	9517 Jan 11 17:42	25°♑17'46	0°08'52
behind sun begin	9517 Jan 11 02:08	24°♑53'06	
behind sun end	9517 Jan 12 09:15	25°♑42'26	
	9517 Jan 19 03:32	0°♒	
morning rise	9517 Feb 24 05:19	23°♒01'20	
	9517 Mar 07 01:48	0°♓	
	9517 Apr 22 04:23	0°♈	
	9517 Jun 06 07:29	0°♉	
	9517 Jul 20 12:25	0°♊	
	9517 Sep 02 04:34	0°♋	
	9517 Oct 16 16:19	0°♌	
	9517 Dec 07 11:09	0°♍	
asc. node	9517 Dec 09 18:39	1°♍03'15	
retrograde	9518 Jan 18 16:51	11°♍04'49	
min. Earth dist.	9518 Feb 13 15:39	6°♍39'45	0.39987 AU
opposition	9518 Feb 20 20:50	4°♍27'01	4°41'37
greatest brilliancy	9518 Feb 19 13:41	4°♍51'00	-2.8m
	9518 Mar 10 08:36	30°℞♌	
direct	9518 Mar 23 05:25	28°♌52'42	
	9518 Apr 05 11:45	0°♍	
	9518 Jun 17 00:37	0°♎	
	9518 Aug 07 18:39	0°♏	
	9518 Sep 26 07:04	0°♐	
desc. node	9518 Nov 12 07:17	28°♐53'43	
	9518 Nov 14 02:07	0°♑	
	9519 Jan 01 01:56	0°♒	
evening set	9519 Jan 02 15:43	0°♒59'46	
max. Earth dist.	9519 Jan 31 16:02	19°♒31'24	2.65034 AU
conjunction	9519 Feb 16 04:43	29°♒35'31	-0°46'23
minimum elong	9519 Feb 16 03:37	29°♒33'42	0°46'12
	9519 Feb 16 19:44	0°♓	
morning rise	9519 Apr 02 03:33	29°♓27'04	
	9519 Apr 02 22:59	0°♈	
	9519 May 16 08:38	0°♉	
	9519 Jun 27 02:56	0°♊	
	9519 Aug 06 13:34	0°♋	
	9519 Sep 15 07:05	0°♌	
	9519 Oct 25 08:47	0°♍	
asc. node	9519 Oct 27 16:25	1°♍42'09	
	9519 Dec 06 19:45	0°♎	
	9520 Jan 27 11:35	0°♏	
retrograde	9520 Mar 11 12:25	11°♏27'31	
min. Earth dist.	9520 Apr 11 11:03	4°♏53'00	0.53453 AU
opposition	9520 Apr 18 21:31	2°♏03'16	5°07'27
greatest brilliancy	9520 Apr 17 14:10	2°♏33'12	-2.0m
	9520 Apr 24 10:26	30°℞♎	
direct	9520 May 24 06:28	24°♎14'28	
	9520 Jun 26 01:04	0°♏	
	9520 Aug 31 11:06	0°♐	
desc. node	9520 Sep 29 09:39	15°♐58'01	
	9520 Oct 23 16:58	0°♑	
	9520 Dec 12 09:45	0°♒	
	9521 Jan 28 13:56	0°♓	
evening set	9521 Feb 07 13:43	6°♓33'24	
max. Earth dist.	9521 Feb 25 23:21	18°♓50'00	2.56553 AU
	9521 Mar 14 08:57	0°♈	
conjunction	9521 Mar 26 23:05	8°♈43'07	-1°07'25
minimum elong	9521 Mar 26 22:41	8°♈42'26	1°07'27
	9521 Apr 25 22:21	0°♉	
morning rise	9521 May 17 11:52	15°♉45'40	
	9521 Jun 05 13:53	0°♊	
	9521 Jul 14 19:55	0°♋	
	9521 Aug 22 09:03	0°♌	
asc. node	9521 Sep 13 12:30	17°♌13'49	
	9521 Sep 30 01:50	0°♍	
	9521 Nov 09 00:12	0°♎	
	9521 Dec 21 17:25	0°♏	
	9522 Feb 08 21:17	0°♐	
retrograde	9522 Apr 19 07:23	22°♐41'47	
min. Earth dist.	9522 May 25 16:37	14°♐15'16	0.63899 AU
opposition	9522 May 29 14:07	12°♐42'10	2°44'32
greatest brilliancy	9522 May 29 05:24	12°♐50'51	-1.5m
direct	9522 Jul 07 12:50	3°♐35'26	
desc. node	9522 Aug 17 12:26	11°♐47'09	
	9522 Sep 28 07:12	0°♑	
	9522 Nov 21 22:51	0°♒	
	9523 Jan 09 14:59	0°♓	
	9523 Feb 23 15:51	0°♈	
evening set	9523 Mar 23 00:15	19°♈14'03	
max. Earth dist.	9523 Apr 06 11:25	29°♈42'22	2.43801 AU
	9523 Apr 06 21:04	0°♉	
	9523 May 16 22:30	0°♊	
conjunction	9523 May 18 06:46	1°♊01'45	-0°48'10
minimum elong	9523 May 18 09:21	1°♊06'42	0°48'25
	9523 Jun 24 13:49	0°♋	
morning rise	9523 Jul 24 18:28	23°♋48'31	
asc. node	9523 Aug 01 07:29	29°♋45'43	
	9523 Aug 01 14:43	0°♌	
	9523 Sep 08 21:54	0°♍	
	9523 Oct 18 08:38	0°♎	
	9523 Nov 28 21:02	0°♏	
	9524 Jan 12 14:51	0°♐	
	9524 Mar 03 08:40	0°♑	
retrograde	9524 May 22 15:29	26°♑44'03	
opposition	9524 Jul 02 03:13	16°♑59'15	0°05'03
greatest brilliancy	9524 Jul 02 03:19	16°♑59'09	-1.3m
min. Earth dist.	9524 Jul 02 00:27	17°♑02'00	0.68163 AU
desc. node	9524 Jul 04 13:48	16°♑01'10	
direct	9524 Aug 12 03:15	7°♑10'44	
	9524 Oct 25 22:30	0°♒	
	9524 Dec 18 15:21	0°♓	
	9525 Feb 02 24:00	0°♈	

	9525 Mar 17 10:19	0°♉	
	9525 Apr 26 07:22	0°♊	
evening set	9525 May 20 15:05	18°♊55'30	
	9525 Jun 03 16:23	0°♋	
asc. node	9525 Jun 18 06:12	11°♋32'32	
	9525 Jul 11 12:54	0°♌	
conjunction	9525 Jul 30 05:58	14°♌45'25	0°29'24
minimum elong	9525 Jul 30 02:58	14°♌39'33	0°29'07
	9525 Aug 18 18:58	0°♍	
max. Earth dist.	9525 Sep 20 22:04	25°♍15'29	2.39764 AU
	9525 Sep 27 06:32	0°♎	
morning rise	9525 Oct 08 05:22	8°♎05'20	
	9525 Nov 07 16:15	0°♏	
	9525 Dec 21 13:20	0°♐	
	9526 Feb 06 14:28	0°♑	
	9526 Mar 30 22:03	0°♒	
desc. node	9526 May 22 11:49	23°♒14'09	
retrograde	9526 Jun 26 19:37	29°♒33'57	
opposition	9526 Aug 05 06:15	20°♒27'46	-2°30'49
greatest brilliancy	9526 Aug 05 13:01	20°♒21'10	-1.4m
min. Earth dist.	9526 Aug 08 22:20	19°♒01'50	0.65829 AU
direct	9526 Sep 15 19:57	10°♒24'25	
	9526 Nov 20 17:10	0°♓	
	9527 Jan 11 15:17	0°♈	
	9527 Feb 24 12:21	0°♉	
	9527 Apr 05 19:22	0°♊	
asc. node	9527 May 06 06:57	23°♊40'54	
	9527 May 14 07:39	0°♋	
	9527 Jun 21 07:31	0°♌	
	9527 Jul 29 19:35	0°♍	
evening set	9527 Aug 04 01:58	4°♍02'12	
	9527 Sep 07 15:39	0°♎	
conjunction	9527 Oct 06 07:56	20°♎46'24	1°06'40
minimum elong	9527 Oct 06 07:59	20°♎46'29	1°06'46
	9527 Oct 19 09:29	0°♏	
max. Earth dist.	9527 Nov 11 16:17	16°♏05'38	2.53565 AU
morning rise	9527 Nov 30 06:12	28°♏37'52	
	9527 Dec 02 07:28	0°♐	
	9528 Jan 17 11:02	0°♑	
	9528 Mar 06 00:19	0°♒	
desc. node	9528 Apr 08 06:45	19°♒26'48	
	9528 Apr 27 07:41	0°♓	
	9528 Jul 02 10:50	0°♈	
retrograde	9528 Aug 06 07:21	6°♈09'31	
	9528 Sep 07 04:04	30°♓	
opposition	9528 Sep 12 05:15	28°♓09'46	-4°49'38
greatest brilliancy	9528 Sep 13 09:57	27°♓43'01	-1.7m
min. Earth dist.	9528 Sep 19 11:23	25°♓27'44	0.56981 AU
direct	9528 Oct 22 09:39	18°♓34'50	
	9528 Dec 07 00:17	0°♈	
	9529 Jan 28 23:19	0°♉	
	9529 Mar 12 14:53	0°♊	
asc. node	9529 Mar 23 08:21	8°♊00'07	
	9529 Apr 21 04:06	0°♋	
	9529 May 29 21:36	0°♌	
	9529 Jul 08 03:07	0°♍	
	9529 Aug 17 17:47	0°♎	
	9529 Sep 29 05:30	0°♏	
evening set	9529 Oct 01 11:23	1°♏32'49	
	9529 Nov 12 16:10	0°♐	
conjunction	9529 Nov 21 23:02	6°♐07'02	0°45'47
minimum elong	9529 Nov 22 00:21	6°♐09'12	0°46'04
max. Earth dist.	9529 Dec 08 20:35	17°♐08'29	2.63452 AU
	9529 Dec 28 19:38	0°♑	

morning rise	9530 Jan 07 21:09	6°♑25'36	
	9530 Feb 14 05:56	0°♒	
desc. node	9530 Feb 24 01:15	6°♒07'08	
	9530 Apr 03 18:10	0°♓	
	9530 May 23 20:25	0°♈	
	9530 Jul 17 05:20	0°♉	
retrograde	9530 Oct 02 19:07	24°♉57'56	
opposition	9530 Nov 04 06:40	18°♉54'03	-5°17'58
greatest brilliancy	9530 Nov 05 23:32	18°♉21'36	-2.5m
min. Earth dist.	9530 Nov 12 15:45	16°♉15'37	0.43403 AU
direct	9530 Dec 09 11:12	11°♉35'08	
	9531 Feb 04 09:44	0°♊	
asc. node	9531 Feb 08 10:34	2°♊15'47	
	9531 Mar 23 13:47	0°♋	
	9531 May 04 13:50	0°♌	
	9531 Jun 15 00:35	0°♍	
	9531 Jul 27 10:09	0°♎	
	9531 Sep 09 09:08	0°♏	
	9531 Oct 24 21:52	0°♐	
evening set	9531 Nov 13 21:37	12°♐54'34	
	9531 Dec 10 14:47	0°♑	
conjunction	9531 Dec 29 23:29	12°♑18'49	0°06'50
minimum elong	9531 Dec 29 23:43	12°♑19'10	0°07'10
behind sun begin	9531 Dec 29 06:48	11°♑52'22	
behind sun end	9531 Dec 30 16:37	12°♑45'59	
max. Earth dist.	9532 Jan 01 08:23	13°♑49'07	2.67954 AU
desc. node	9532 Jan 11 21:56	20°♑31'25	
	9532 Jan 26 20:31	0°♒	
morning rise	9532 Feb 11 18:54	10°♒06'47	
	9532 Mar 14 00:44	0°♓	
	9532 Apr 29 19:19	0°♈	
	9532 Jun 15 03:21	0°♉	
	9532 Jul 31 08:28	0°♊	
	9532 Sep 16 15:24	0°♋	
	9532 Nov 10 16:55	0°♌	
retrograde	9532 Dec 21 17:01	9°♌54'52	
asc. node	9532 Dec 26 12:05	9°♌45'17	
min. Earth dist.	9533 Jan 18 03:44	5°♌26'50	0.36858 AU
opposition	9533 Jan 21 03:57	4°♌37'51	1°58'16
greatest brilliancy	9533 Jan 20 20:53	4°♌42'39	-3.0m
	9533 Feb 13 01:46	30°♋	
direct	9533 Feb 19 10:36	29°♋43'57	
	9533 Feb 25 18:56	0°♌	
	9533 May 11 22:14	0°♍	
	9533 Jun 30 14:12	0°♎	
	9533 Aug 17 09:26	0°♏	
	9533 Oct 04 05:00	0°♐	
	9533 Nov 21 04:15	0°♑	
desc. node	9533 Nov 28 20:19	4°♑48'21	
evening set	9533 Dec 19 19:30	17°♑58'46	
	9534 Jan 07 19:56	0°♒	
max. Earth dist.	9534 Jan 22 12:05	9°♒20'18	2.66918 AU
conjunction	9534 Feb 02 04:56	16°♒11'22	-0°33'06
minimum elong	9534 Feb 02 04:02	16°♒09'56	0°32'49
	9534 Feb 23 14:00	0°♓	
morning rise	9534 Mar 18 03:22	14°♓46'28	
	9534 Apr 10 00:25	0°♈	
	9534 May 23 22:50	0°♉	
	9534 Jul 05 10:20	0°♊	
	9534 Aug 15 17:00	0°♋	
	9534 Sep 25 10:16	0°♌	
	9534 Nov 05 23:45	0°♍	
asc. node	9534 Nov 13 09:23	5°♍08'11	
	9534 Dec 22 08:34	0°♎	
retrograde	9535 Feb 22 10:34	21°♎19'26	

min. Earth dist.	9535 Mar 22 21:51	15°♎40'48	0.48085 AU
greatest brilliancy	9535 Mar 29 15:26	13°♎15'45	-2.2m
opposition	9535 Mar 31 06:33	12°♎40'18	5°38'12
direct	9535 May 03 19:57	5°♎37'54	
	9535 Jul 18 14:36	0°♏	
	9535 Sep 11 17:07	0°♐	
desc. node	9535 Oct 16 21:38	20°♐35'16	
	9535 Nov 01 14:57	0°♑	
	9535 Dec 20 11:40	0°♒	
evening set	9536 Jan 24 18:29	22°♒25'41	
	9536 Feb 05 10:16	0°♓	
max. Earth dist.	9536 Feb 16 00:54	6°♓57'54	2.60487 AU
conjunction	9536 Mar 10 12:52	22°♓39'59	-1°02'20
minimum elong	9536 Mar 10 11:55	22°♓38'22	1°02'16
	9536 Mar 21 07:35	0°♈	
morning rise	9536 Apr 27 14:33	26°♈02'18	
	9536 May 03 03:38	0°♉	
	9536 Jun 13 03:58	0°♊	
	9536 Jul 22 18:50	0°♋	
	9536 Aug 30 15:53	0°♌	
asc. node	9536 Sep 30 06:03	23°♌34'06	
	9536 Oct 08 16:29	0°♍	
	9536 Nov 18 02:47	0°♎	
	9537 Jan 01 04:08	0°♏	
	9537 Feb 26 11:36	0°♐	
retrograde	9537 Apr 05 03:10	8°♐11'06	
min. Earth dist.	9537 May 09 13:52	0°♐22'59	0.60503 AU
	9537 May 10 13:16	30°℞♏	
opposition	9537 May 14 22:20	28°♏16'03	3°44'39
greatest brilliancy	9537 May 14 05:52	28°♏32'20	-1.6m
direct	9537 Jun 21 16:00	19°♏34'14	
	9537 Aug 07 10:58	0°♐	
desc. node	9537 Sep 03 00:29	11°♐32'12	
	9537 Oct 08 21:43	0°♑	
	9537 Nov 29 21:54	0°♒	
	9538 Jan 16 20:09	0°♓	
	9538 Mar 02 17:37	0°♈	
evening set	9538 Mar 04 19:05	1°♈25'22	
max. Earth dist.	9538 Mar 18 22:54	11°♈18'03	2.49174 AU
	9538 Apr 14 01:24	0°♉	
conjunction	9538 Apr 25 13:07	8°♉25'19	-1°02'46
minimum elong	9538 Apr 25 14:31	8°♉27'54	1°02'58
	9538 May 24 07:49	0°♊	
morning rise	9538 Jun 24 17:49	24°♊12'10	
	9538 Jul 02 04:07	0°♋	
	9538 Aug 09 08:40	0°♌	
asc. node	9538 Aug 18 02:42	6°♌52'37	
	9538 Sep 16 18:01	0°♍	
	9538 Oct 26 06:31	0°♎	
	9538 Dec 07 00:09	0°♏	
	9539 Jan 21 14:38	0°♐	
	9539 Mar 17 15:15	0°♑	
retrograde	9539 May 10 11:31	14°♑08'01	
min. Earth dist.	9539 Jun 18 10:32	4°♑52'22	0.67272 AU
opposition	9539 Jun 20 01:07	4°♑13'55	1°06'36
greatest brilliancy	9539 Jun 19 23:49	4°♑15'12	-1.3m
	9539 Jul 01 04:04	30°℞♐	
desc. node	9539 Jul 22 02:28	25°♐04'27	
direct	9539 Jul 30 10:08	24°♐38'30	
	9539 Aug 31 19:37	0°♑	
	9539 Nov 06 22:07	0°♒	
	9539 Dec 27 20:52	0°♓	
	9540 Feb 11 13:13	0°♈	
	9540 Mar 24 20:14	0°♉	
evening set	9540 Apr 24 16:47	23°♉03'50	
	9540 May 03 18:25	0°♊	
	9540 Jun 11 05:24	0°♋	
max. Earth dist.	9540 Jun 12 00:17	0°♋37'15	2.36678 AU
conjunction	9540 Jun 29 08:34	14°♋20'24	-0°04'07
minimum elong	9540 Jun 29 09:01	14°♋21'18	0°04'27
behind sun begin	9540 Jun 28 03:47	13°♋23'25	
behind sun end	9540 Jun 30 14:15	15°♋19'11	
asc. node	9540 Jul 04 22:58	18°♋46'41	
	9540 Jul 19 03:00	0°♌	
	9540 Aug 26 08:40	0°♍	
morning rise	9540 Sep 10 18:27	11°♍52'13	
	9540 Oct 04 18:34	0°♎	
	9540 Nov 15 03:04	0°♏	
	9540 Dec 29 03:38	0°♐	
	9541 Feb 15 00:14	0°♑	
	9541 Apr 12 03:02	0°♒	
desc. node	9541 Jun 08 01:35	16°♒43'22	
retrograde	9541 Jun 12 17:56	16°♒51'13	
opposition	9541 Jul 22 18:01	7°♒27'14	-1°31'29
greatest brilliancy	9541 Jul 22 20:09	7°♒25'08	-1.3m
min. Earth dist.	9541 Jul 24 22:26	6°♒35'38	0.67523 AU
	9541 Aug 13 06:50	30°℞♑	
direct	9541 Sep 02 06:56	27°♑26'11	
	9541 Sep 23 18:55	0°♒	
	9541 Dec 02 21:27	0°♓	
	9542 Jan 20 14:15	0°♈	
	9542 Mar 04 16:18	0°♉	
	9542 Apr 13 17:23	0°♊	
asc. node	9542 May 22 21:48	0°♋36'51	
	9542 May 22 03:09	0°♋	
	9542 Jun 29 00:40	0°♌	
evening set	9542 Jul 05 23:55	5°♌29'49	
greatest brilliancy	9542 Jul 25 13:15	20°♌49'23	1.1m
	9542 Aug 06 09:24	0°♍	
conjunction	9542 Sep 12 17:00	28°♍16'12	1°02'02
minimum elong	9542 Sep 12 15:04	28°♍12'35	1°01'59
	9542 Sep 15 01:00	0°♎	
	9542 Oct 26 14:15	0°♏	
max. Earth dist.	9542 Oct 27 23:38	0°♏58'38	2.48423 AU
morning rise	9542 Nov 11 20:49	11°♏20'02	
	9542 Dec 09 09:51	0°♐	
	9543 Jan 24 17:39	0°♑	
	9543 Mar 15 04:40	0°♒	
desc. node	9543 Apr 25 22:24	22°♒59'58	
	9543 May 10 00:32	0°♓	
retrograde	9543 Jul 20 22:38	21°♓16'25	
opposition	9543 Aug 28 01:16	12°♓46'05	-4°00'02
greatest brilliancy	9543 Aug 28 20:03	12°♓28'09	-1.6m
min. Earth dist.	9543 Sep 02 23:08	10°♓30'40	0.61194 AU
direct	9543 Oct 08 01:47	2°♓52'05	
	9543 Dec 24 17:18	0°♈	
	9544 Feb 09 16:52	0°♉	
	9544 Mar 21 23:30	0°♊	
asc. node	9544 Apr 09 00:08	13°♊45'05	
	9544 Apr 29 22:31	0°♋	
	9544 Jun 07 06:12	0°♌	
	9544 Jul 16 02:33	0°♍	
	9544 Aug 25 07:51	0°♎	
evening set	9544 Sep 10 22:02	11°♎59'24	
	9544 Oct 06 10:46	0°♏	
conjunction	9544 Nov 05 02:18	20°♏17'04	0°57'32
minimum elong	9544 Nov 05 03:40	20°♏19'21	0°57'46
	9544 Nov 19 14:52	0°♐	
max. Earth dist.	9544 Nov 28 20:57	6°♐07'15	2.60215 AU

morning rise	9544 Dec 24 09:04	22°♐44'29	
	9545 Jan 04 16:23	0°♑	
	9545 Feb 21 09:17	0°♒	
desc. node	9545 Mar 12 17:12	11°♒52'04	
	9545 Apr 11 21:10	0°♓	
	9545 Jun 03 18:44	0°♈	
	9545 Aug 12 00:55	0°♉	
retrograde	9545 Sep 07 12:01	3°♉48'32	
	9545 Oct 02 08:21	30°℞♈	
opposition	9545 Oct 11 23:48	26°♈52'06	-5°36'35
greatest brilliancy	9545 Oct 13 17:43	26°♈15'43	-2.2m
min. Earth dist.	9545 Oct 20 16:03	23°♈52'44	0.48937 AU
direct	9545 Nov 18 17:03	18°♈21'27	
	9546 Jan 02 04:59	0°♉	
	9546 Feb 22 01:55	0°♊	
asc. node	9546 Feb 25 02:05	2°♊02'53	
	9546 Apr 05 00:58	0°♋	
	9546 May 15 01:38	0°♌	
	9546 Jun 24 06:55	0°♍	
	9546 Aug 04 18:12	0°♎	
	9546 Sep 16 23:37	0°♏	
evening set	9546 Oct 29 04:30	28°♏09'55	
	9546 Oct 31 23:38	0°♐	
conjunction	9546 Dec 15 19:26	28°♐59'15	0°22'39
minimum elong	9546 Dec 15 20:10	29°♐00'24	0°23'00
	9546 Dec 17 09:27	0°♑	
max. Earth dist.	9546 Dec 23 13:13	3°♑55'59	2.66860 AU
desc. node	9547 Jan 28 12:18	26°♑46'00	
morning rise	9547 Jan 29 09:40	27°♑19'48	
	9547 Feb 02 15:01	0°♒	
	9547 Mar 22 04:23	0°♓	
	9547 May 08 21:10	0°♈	
	9547 Jun 26 00:55	0°♉	
	9547 Aug 15 00:31	0°♊	
	9547 Oct 13 21:43	0°♋	
retrograde	9547 Nov 20 04:55	7°♋48'27	
opposition	9547 Dec 20 01:47	2°♋52'34	-1°50'26
greatest brilliancy	9547 Dec 20 09:18	2°♋47'30	-3.0m
min. Earth dist.	9547 Dec 22 22:26	2°♋06'27	0.37089 AU
	9547 Dec 31 08:46	30°℞♊	
asc. node	9548 Jan 13 03:19	27°♊55'49	
direct	9548 Jan 19 10:19	27°♊39'20	
	9548 Feb 07 04:57	0°♋	
	9548 Apr 10 11:58	0°♌	
	9548 May 27 03:40	0°♍	
	9548 Jul 11 08:22	0°♎	
	9548 Aug 26 01:54	0°♏	
	9548 Oct 11 18:11	0°♐	
	9548 Nov 28 02:44	0°♑	
evening set	9548 Dec 05 20:15	4°♑52'56	
desc. node	9548 Dec 15 10:00	10°♑55'46	
max. Earth dist.	9549 Jan 13 20:18	29°♑33'47	2.67990 AU
	9549 Jan 14 12:49	0°♒	
conjunction	9549 Jan 19 12:38	3°♒10'20	-0°18'17
minimum elong	9549 Jan 19 12:06	3°♒09'30	0°17'58
	9549 Mar 02 09:21	0°♓	
morning rise	9549 Mar 04 00:16	1°♓02'57	
	9549 Apr 17 05:49	0°♈	
	9549 May 31 21:37	0°♉	
	9549 Jul 14 09:25	0°♊	
	9549 Aug 25 23:25	0°♋	
	9549 Oct 07 12:43	0°♌	
	9549 Nov 21 19:42	0°♍	
asc. node	9549 Nov 30 04:02	4°♍58'25	
retrograde	9550 Feb 01 09:57	27°♍13'53	
min. Earth dist.	9550 Feb 27 18:12	22°♍29'23	0.42621 AU
greatest brilliancy	9550 Mar 06 09:48	20°♍19'09	-2.6m
opposition	9550 Mar 08 00:33	19°♍47'14	5°25'15
direct	9550 Apr 08 11:55	13°♍41'17	
	9550 Jun 05 07:25	0°♎	
	9550 Jul 31 17:31	0°♏	
	9550 Sep 20 16:20	0°♐	
desc. node	9550 Nov 02 10:01	25°♐53'56	
	9550 Nov 09 02:39	0°♑	
	9550 Dec 27 09:08	0°♒	
evening set	9551 Jan 10 14:53	9°♒00'58	
max. Earth dist.	9551 Feb 06 02:25	26°♒02'00	2.63641 AU
	9551 Feb 12 04:38	0°♓	
conjunction	9551 Feb 24 10:33	8°♓02'03	-0°53'09
minimum elong	9551 Feb 24 09:25	8°♓00'11	0°52'59
	9551 Mar 29 05:55	0°♈	
morning rise	9551 Apr 11 05:48	8°♈53'34	
	9551 May 11 10:43	0°♉	
	9551 Jun 21 22:31	0°♊	
	9551 Aug 01 01:35	0°♋	
	9551 Sep 09 10:33	0°♌	
asc. node	9551 Oct 18 00:59	29°♌15'49	
	9551 Oct 19 00:37	0°♍	
	9551 Nov 29 10:17	0°♎	
	9552 Jan 15 13:41	0°♏	
retrograde	9552 Mar 20 20:29	22°♏03'05	
min. Earth dist.	9552 Apr 22 02:33	15°♏00'30	0.56156 AU
opposition	9552 Apr 28 20:25	12°♏23'37	4°40'26
greatest brilliancy	9552 Apr 27 18:28	12°♏48'49	-1.8m
direct	9552 Jun 04 02:44	4°♏13'50	
	9552 Aug 23 14:20	0°♐	
desc. node	9552 Sep 19 12:13	14°♐02'43	
	9552 Oct 18 00:33	0°♑	
	9552 Dec 07 10:16	0°♒	
	9553 Jan 23 20:44	0°♓	
evening set	9553 Feb 16 09:04	15°♓31'20	
max. Earth dist.	9553 Mar 04 22:27	26°♓43'37	2.54090 AU
	9553 Mar 09 17:01	0°♈	
conjunction	9553 Apr 06 00:28	19°♈06'20	-1°07'51
minimum elong	9553 Apr 06 00:36	19°♈06'35	1°07'57
	9553 Apr 21 04:41	0°♉	
morning rise	9553 May 30 03:14	28°♉48'31	
	9553 May 31 17:06	0°♊	
	9553 Jul 09 19:34	0°♋	
	9553 Aug 17 05:12	0°♌	
asc. node	9553 Sep 03 19:50	13°♌45'33	
	9553 Sep 24 18:36	0°♍	
	9553 Nov 03 11:51	0°♎	
	9553 Dec 15 16:44	0°♏	
	9554 Jan 31 23:24	0°♐	
	9554 Apr 14 08:06	0°♑	
retrograde	9554 Apr 27 02:59	1°♑01'10	
	9554 May 09 08:19	30°℞♐	
min. Earth dist.	9554 Jun 03 11:20	22°♐16'09	0.65366 AU
opposition	9554 Jun 06 13:37	21°♐02'04	2°08'39
greatest brilliancy	9554 Jun 06 08:18	21°♐07'23	-1.4m
direct	9554 Jul 16 02:01	11°♐44'00	
desc. node	9554 Aug 07 15:28	14°♐29'05	
	9554 Sep 19 20:43	0°♑	
	9554 Nov 16 05:11	0°♒	
	9555 Jan 04 14:17	0°♓	
	9555 Feb 18 20:53	0°♈	
	9555 Apr 02 03:14	0°♉	
evening set	9555 Apr 03 07:43	0°♉52'07	
max. Earth dist.	9555 Apr 20 19:02	13°♉48'31	2.40887 AU

	9555 May 12 03:57	0°♊	
conjunction	9555 Jun 01 16:27	15°♊51'33	-0°34'59
minimum elong	9555 Jun 01 19:07	15°♊56'45	0°35'16
	9555 Jun 19 17:50	0°♋	
asc. node	9555 Jul 22 16:28	26°♋01'25	
	9555 Jul 27 17:10	0°♌	
morning rise	9555 Aug 11 16:05	11°♌47'32	
	9555 Sep 03 23:07	0°♍	
	9555 Oct 13 08:28	0°♎	
	9555 Nov 23 17:40	0°♏	
	9556 Jan 07 02:11	0°♐	
	9556 Feb 25 08:47	0°♑	
	9556 May 01 18:44	0°♒	
retrograde	9556 May 30 06:01	4°♒22'50	
desc. node	9556 Jun 24 16:29	0°♒13'55	
	9556 Jun 25 09:57	30°℞♑	
opposition	9556 Jul 09 14:48	24°♑44'28	-0°30'53
greatest brilliancy	9556 Jul 09 14:53	24°♑44'23	-1.3m
min. Earth dist.	9556 Jul 10 07:23	24°♑28'02	0.68210 AU
direct	9556 Aug 19 20:57	14°♑50'27	
	9556 Oct 16 23:57	0°♒	
	9556 Dec 12 17:55	0°♓	
	9557 Jan 28 19:29	0°♈	
	9557 Mar 12 11:10	0°♉	
	9557 Apr 21 09:58	0°♊	
	9557 May 29 19:27	0°♋	
evening set	9557 Jun 05 18:53	5°♋31'11	
asc. node	9557 Jun 08 14:40	7°♋45'24	
	9557 Jul 06 16:10	0°♌	
	9557 Aug 13 22:42	0°♍	
conjunction	9557 Aug 16 04:07	1°♍43'13	0°44'58
minimum elong	9557 Aug 16 00:35	1°♍36'25	0°44'45
	9557 Sep 22 10:51	0°♎	
max. Earth dist.	9557 Oct 07 17:29	11°♎15'08	2.42812 AU
morning rise	9557 Oct 21 16:59	21°♎21'41	
	9557 Nov 02 20:29	0°♏	
	9557 Dec 16 15:22	0°♐	
	9558 Feb 01 07:17	0°♑	
	9558 Mar 24 05:20	0°♒	
desc. node	9558 May 12 13:26	24°♒24'02	
	9558 May 27 04:59	0°♓	
retrograde	9558 Jul 05 05:33	7°♓32'14	
	9558 Aug 09 16:14	30°℞♒	
opposition	9558 Aug 13 06:21	28°♒37'23	-3°04'36
greatest brilliancy	9558 Aug 13 16:50	28°♒27'12	-1.4m
min. Earth dist.	9558 Aug 17 17:37	26°♒53'19	0.64447 AU
direct	9558 Sep 23 17:28	18°♒35'12	
	9558 Nov 10 07:38	0°♓	
	9559 Jan 05 06:37	0°♈	
	9559 Feb 18 23:22	0°♉	
	9559 Mar 31 13:16	0°♊	
asc. node	9559 Apr 26 14:41	20°♊08'17	
	9559 May 09 04:40	0°♋	
	9559 Jun 16 06:35	0°♌	
	9559 Jul 24 20:50	0°♍	
evening set	9559 Aug 19 03:47	19°♍08'44	
	9559 Sep 02 19:20	0°♎	
	9559 Oct 14 15:17	0°♏	
conjunction	9559 Oct 18 05:05	2°♏29'41	1°05'09
minimum elong	9559 Oct 18 05:52	2°♏31'03	1°05'19
max. Earth dist.	9559 Nov 18 19:15	24°♏06'45	2.56157 AU
	9559 Nov 27 14:21	0°♐	
morning rise	9559 Dec 09 18:40	8°♐03'58	
	9560 Jan 12 15:40	0°♑	
	9560 Feb 29 19:12	0°♒	
desc. node	9560 Mar 29 08:39	17°♒04'50	
	9560 Apr 20 19:07	0°♓	
	9560 Jun 18 06:46	0°♈	
retrograde	9560 Aug 17 01:45	15°♈47'47	
opposition	9560 Sep 22 05:08	8°♈07'47	-5°12'48
greatest brilliancy	9560 Sep 23 15:22	7°♈36'26	-1.9m
min. Earth dist.	9560 Sep 30 02:39	5°♈15'02	0.54310 AU
	9560 Oct 18 17:48	30°℞♓	
direct	9560 Oct 31 16:58	28°♓49'44	
	9560 Nov 14 02:46	0°♈	
	9561 Jan 21 00:18	0°♉	
	9561 Mar 06 04:46	0°♊	
asc. node	9561 Mar 13 18:05	5°♊30'45	
	9561 Apr 15 07:49	0°♋	
	9561 May 24 08:59	0°♌	
	9561 Jul 02 20:29	0°♍	
	9561 Aug 12 16:33	0°♎	
	9561 Sep 24 08:55	0°♏	
evening set	9561 Oct 12 02:08	12°♏03'57	
	9561 Nov 07 23:13	0°♐	
conjunction	9561 Nov 30 22:47	15°♐02'06	0°37'42
minimum elong	9561 Nov 30 23:56	15°♐03'59	0°38'01
max. Earth dist.	9561 Dec 14 08:36	23°♐42'14	2.64913 AU
	9561 Dec 24 03:56	0°♑	
morning rise	9562 Jan 15 20:30	14°♑27'27	
	9562 Feb 09 11:30	0°♒	
desc. node	9562 Feb 14 03:19	2°♒55'34	
	9562 Mar 29 13:46	0°♓	
	9562 May 17 14:23	0°♈	
	9562 Jul 07 20:46	0°♉	
	9562 Sep 06 18:15	0°♊	
retrograde	9562 Oct 19 02:54	9°♊14'55	
opposition	9562 Nov 19 09:05	3°♊40'50	-4°33'11
greatest brilliancy	9562 Nov 20 17:52	3°♊16'18	-2.7m
min. Earth dist.	9562 Nov 26 14:36	1°♊31'41	0.40633 AU
	9562 Dec 02 04:05	30°℞♉	
direct	9562 Dec 22 21:43	27°♉09'13	
	9563 Jan 12 07:31	0°♊	
asc. node	9563 Jan 29 20:39	6°♊13'25	
	9563 Mar 13 19:47	0°♋	
	9563 Apr 27 03:36	0°♌	
	9563 Jun 08 16:36	0°♍	
	9563 Jul 21 18:52	0°♎	
	9563 Sep 04 05:05	0°♏	
	9563 Oct 20 01:35	0°♐	
evening set	9563 Nov 22 10:51	21°♐24'25	
	9563 Dec 05 22:54	0°♑	
desc. node	9564 Jan 01 23:11	17°♑08'33	
conjunction	9564 Jan 06 21:32	20°♑16'07	-0°02'38
minimum elong	9564 Jan 06 21:29	20°♑16'03	0°02'18
behind sun begin	9564 Jan 06 03:09	19°♑47'00	
behind sun end	9564 Jan 07 15:49	20°♑45'06	
max. Earth dist.	9564 Jan 06 09:27	19°♑56'59	2.68206 AU
	9564 Jan 22 05:35	0°♒	
morning rise	9564 Feb 19 10:54	17°♒57'32	
	9564 Mar 09 06:38	0°♓	
	9564 Apr 24 16:12	0°♈	
	9564 Jun 09 07:22	0°♉	
	9564 Jul 24 07:07	0°♊	
	9564 Sep 07 04:50	0°♋	
	9564 Oct 24 06:43	0°♌	
asc. node	9564 Dec 16 20:13	25°♌15'34	
retrograde	9565 Jan 07 01:24	28°♌19'15	
min. Earth dist.	9565 Feb 02 05:38	24°♌00'50	0.38245 AU

opposition	9565 Feb 07 22:56	22°♌21'29	3°45'23
greatest brilliancy	9565 Feb 07 01:42	22°♌36'55	-2.9m
direct	9565 Mar 09 15:07	17°♌09'49	
	9565 Apr 27 14:30	0°♍	
	9565 Jun 22 14:37	0°♎	
	9565 Aug 11 06:29	0°♏	
	9565 Sep 28 22:40	0°♐	
	9565 Nov 16 08:14	0°♑	
desc. node	9565 Nov 18 22:31	1°♑36'56	
evening set	9565 Dec 27 17:49	25°♑55'39	
	9566 Jan 03 04:27	0°♒	
max. Earth dist.	9566 Jan 27 17:58	15°♒38'59	2.65982 AU
conjunction	9566 Feb 10 03:44	24°♒17'14	-0°41'07
minimum elong	9566 Feb 10 02:42	24°♒15'33	0°40'53
	9566 Feb 18 22:59	0°♓	
morning rise	9566 Mar 26 13:27	23°♓29'19	
	9566 Apr 05 06:09	0°♈	
	9566 May 18 22:08	0°♉	
	9566 Jun 30 00:25	0°♊	
	9566 Aug 09 19:44	0°♋	
	9566 Sep 18 22:17	0°♌	
	9566 Oct 29 12:00	0°♍	
asc. node	9566 Nov 03 18:09	3°♍47'25	
	9566 Dec 12 00:54	0°♎	
	9567 Feb 09 16:08	0°♏	
retrograde	9567 Mar 04 23:59	3°♏38'18	
	9567 Mar 27 08:53	30°℞♎	
min. Earth dist.	9567 Apr 03 20:38	27°♎27'58	0.51099 AU
greatest brilliancy	9567 Apr 10 07:08	25°♎04'04	-2.1m
opposition	9567 Apr 11 18:31	24°♎30'54	5°24'29
direct	9567 May 16 08:03	17°♎01'39	
	9567 Jul 07 05:46	0°♏	
	9567 Sep 05 03:47	0°♐	
desc. node	9567 Oct 07 00:56	18°♐05'57	
	9567 Oct 27 07:15	0°♑	
	9567 Dec 15 15:27	0°♒	
	9568 Jan 31 18:08	0°♓	
evening set	9568 Feb 02 03:06	0°♓53'48	
max. Earth dist.	9568 Feb 22 06:15	14°♓11'16	2.58406 AU
	9568 Mar 16 15:18	0°♈	
conjunction	9568 Mar 19 16:51	2°♈06'12	-1°05'54
minimum elong	9568 Mar 19 16:10	2°♈05'02	1°05'54
	9568 Apr 28 08:46	0°♉	
morning rise	9568 May 08 12:16	7°♉20'10	
	9568 Jun 08 05:04	0°♊	
	9568 Jul 17 15:37	0°♋	
	9568 Aug 25 08:09	0°♌	
asc. node	9568 Sep 20 14:46	20°♌22'07	
	9568 Oct 03 03:37	0°♍	
	9568 Nov 12 05:15	0°♎	
	9568 Dec 25 07:08	0°♏	
	9569 Feb 14 05:45	0°♐	
retrograde	9569 Apr 13 07:34	17°♐07'18	
min. Earth dist.	9569 May 18 20:44	8°♐57'32	0.62491 AU
opposition	9569 May 23 10:29	7°♐08'34	3°10'06
greatest brilliancy	9569 May 22 22:38	7°♐20'20	-1.5m
	9569 Jun 14 05:36	30°℞♏	
direct	9569 Jun 30 21:08	28°♏12'22	
	9569 Jul 18 18:43	0°♐	
desc. node	9569 Aug 24 03:51	11°♐33'03	
	9569 Oct 02 02:39	0°♑	
	9569 Nov 24 13:46	0°♒	
	9570 Jan 11 23:17	0°♓	
	9570 Feb 26 00:02	0°♈	
evening set	9570 Mar 14 21:07	11°♈45'36	
max. Earth dist.	9570 Mar 28 18:30	21°♈38'38	2.46219 AU
	9570 Apr 09 07:35	0°♉	
conjunction	9570 May 07 23:06	21°♉14'55	-0°55'44
minimum elong	9570 May 08 01:15	21°♉18'59	0°55'58
	9570 May 19 12:07	0°♊	
	9570 Jun 27 06:14	0°♋	
morning rise	9570 Jul 11 04:47	10°♋57'05	
	9570 Aug 04 08:45	0°♌	
asc. node	9570 Aug 08 09:08	3°♌09'51	
	9570 Sep 11 16:24	0°♍	
	9570 Oct 21 02:53	0°♎	
	9570 Dec 01 15:27	0°♏	
	9571 Jan 15 14:25	0°♐	
	9571 Mar 08 12:39	0°♑	
retrograde	9571 May 18 00:23	21°♑53'13	
opposition	9571 Jun 27 13:36	12°♑03'40	0°30'27
min. Earth dist.	9571 Jun 26 18:20	12°♑22'50	0.67891 AU
greatest brilliancy	9571 Jun 27 13:25	12°♑03'51	-1.3m
desc. node	9571 Jul 12 05:34	6°♑38'10	
direct	9571 Aug 07 07:49	2°♑20'39	
	9571 Oct 30 23:10	0°♒	
	9571 Dec 22 10:58	0°♓	
	9572 Feb 06 14:02	0°♈	
	9572 Mar 20 00:14	0°♉	
	9572 Apr 28 22:41	0°♊	
evening set	9572 May 08 20:03	7°♊38'16	
	9572 Jun 06 09:00	0°♋	
asc. node	9572 Jun 25 06:55	14°♋58'33	
	9572 Jul 14 05:45	0°♌	
conjunction	9572 Jul 16 16:28	1°♌56'10	0°15'26
minimum elong	9572 Jul 16 14:46	1°♌52'49	0°15'06
behind sun begin	9572 Jul 16 03:52	1°♌31'14	
behind sun end	9572 Jul 17 01:41	2°♌14'24	
	9572 Aug 21 10:56	0°♍	
max. Earth dist.	9572 Aug 30 17:17	7°♍09'22	2.37573 AU
morning rise	9572 Sep 26 19:43	27°♍43'45	
	9572 Sep 29 20:43	0°♎	
	9572 Nov 10 04:18	0°♏	
	9572 Dec 24 00:56	0°♐	
	9573 Feb 09 07:00	0°♑	
	9573 Apr 03 17:29	0°♒	
desc. node	9573 May 29 04:09	21°♒48'41	
retrograde	9573 Jun 20 17:00	24°♒34'50	
opposition	9573 Jul 30 10:06	15°♒20'08	-2°06'21
greatest brilliancy	9573 Jul 30 14:31	15°♒15'48	-1.3m
min. Earth dist.	9573 Aug 02 09:46	14°♒09'52	0.66719 AU
direct	9573 Sep 10 00:10	5°♒17'17	
	9573 Nov 25 10:49	0°♓	
	9574 Jan 14 21:17	0°♈	
	9574 Feb 27 11:09	0°♉	
	9574 Apr 08 16:26	0°♊	
asc. node	9574 May 13 07:52	26°♊58'24	
	9574 May 17 04:01	0°♋	
	9574 Jun 24 02:32	0°♌	
evening set	9574 Jul 22 16:00	22°♌22'58	
	9574 Aug 01 12:16	0°♍	
	9574 Sep 10 05:09	0°♎	
conjunction	9574 Sep 26 12:21	11°♎56'18	1°05'58
minimum elong	9574 Sep 26 11:37	11°♎54'59	1°06'01
	9574 Oct 21 19:22	0°♏	
max. Earth dist.	9574 Nov 05 22:33	10°♏32'28	2.51336 AU
morning rise	9574 Nov 22 14:40	21°♏56'10	
	9574 Dec 04 14:44	0°♐	
	9575 Jan 19 18:16	0°♑	

	9575 Mar 09 14:19	0°♒	
desc. node	9575 Apr 15 23:33	21°♒25'08	
	9575 May 02 00:45	0°♓	
	9575 Jul 27 03:43	0°♈	
retrograde	9575 Jul 30 13:31	0°♈04'10	
	9575 Aug 02 22:07	30°℞♓	
opposition	9575 Sep 06 01:12	21°♓49'43	-4°29'31
greatest brilliancy	9575 Sep 07 01:23	21°♓26'53	-1.7m
min. Earth dist.	9575 Sep 12 17:07	19°♓18'59	0.58983 AU
direct	9575 Oct 16 15:47	12°♓04'44	
	9575 Dec 15 10:11	0°♈	
	9576 Feb 03 04:34	0°♉	
	9576 Mar 16 04:45	0°♊	
asc. node	9576 Mar 30 09:19	10°♊41'33	
	9576 Apr 24 11:34	0°♋	
	9576 Jun 02 00:05	0°♌	
	9576 Jul 11 00:27	0°♍	
	9576 Aug 20 09:41	0°♎	
evening set	9576 Sep 22 21:29	23°♎53'29	
	9576 Oct 01 15:54	0°♏	
conjunction	9576 Nov 14 21:38	29°♏58'53	0°51'04
minimum elong	9576 Nov 14 23:03	0°♐01'13	0°51'21
	9576 Nov 14 22:19	0°♐	
max. Earth dist.	9576 Dec 04 19:13	13°♐04'28	2.62101 AU
	9576 Dec 30 23:36	0°♑	
morning rise	9577 Jan 01 18:42	1°♑08'58	
	9577 Feb 16 11:44	0°♒	
desc. node	9577 Mar 02 18:03	8°♒51'02	
	9577 Apr 06 08:36	0°♓	
	9577 May 27 10:28	0°♈	
	9577 Jul 24 09:53	0°♉	
retrograde	9577 Sep 21 04:05	15°♉44'49	
opposition	9577 Oct 24 14:14	9°♉16'38	-5°32'53
greatest brilliancy	9577 Oct 26 09:21	8°♉40'52	-2.3m
min. Earth dist.	9577 Nov 02 08:05	6°♉23'54	0.45849 AU
direct	9577 Nov 30 00:56	1°♉22'32	
	9578 Feb 12 15:09	0°♊	
asc. node	9578 Feb 15 11:17	1°♊47'01	
	9578 Mar 28 18:45	0°♋	
	9578 May 08 17:33	0°♌	
	9578 Jun 18 12:27	0°♍	
	9578 Jul 30 10:08	0°♎	
	9578 Sep 11 23:29	0°♏	
	9578 Oct 27 05:20	0°♐	
evening set	9578 Nov 07 06:56	7°♐11'52	
	9578 Dec 12 18:08	0°♑	
conjunction	9578 Dec 23 23:30	7°♑09'16	0°13'26
minimum elong	9578 Dec 23 23:56	7°♑09'57	0°13'46
behind sun begin	9578 Dec 23 14:24	6°♑54'48	
behind sun end	9578 Dec 24 09:28	7°♑25'07	
max. Earth dist.	9578 Dec 28 16:35	10°♑09'10	2.67570 AU
desc. node	9579 Jan 18 14:15	23°♑25'22	
	9579 Jan 28 23:18	0°♒	
morning rise	9579 Feb 06 01:45	5°♒07'58	
	9579 Mar 17 07:18	0°♓	
	9579 May 03 10:57	0°♈	
	9579 Jun 19 12:13	0°♉	
	9579 Aug 06 01:15	0°♊	
	9579 Sep 25 10:31	0°♋	
retrograde	9579 Dec 08 19:45	26°♋04'02	
asc. node	9580 Jan 03 13:26	22°♋09'41	
opposition	9580 Jan 07 14:38	21°♋06'01	0°19'08
min. Earth dist.	9580 Jan 07 05:46	21°♋11'52	0.36503 AU
greatest brilliancy	9580 Jan 07 14:17	21°♋06'15	-3.1m
direct	9580 Feb 05 23:51	16°♋12'50	

	9580 Mar 26 15:55	0°♌	
	9580 May 18 13:24	0°♍	
	9580 Jul 04 17:54	0°♎	
	9580 Aug 20 11:19	0°♏	
	9580 Oct 06 17:12	0°♐	
	9580 Nov 23 09:11	0°♑	
desc. node	9580 Dec 05 12:12	7°♑37'35	
evening set	9580 Dec 13 20:39	12°♑53'16	
	9581 Jan 09 22:20	0°♒	
max. Earth dist.	9581 Jan 18 20:57	5°♒41'02	2.67497 AU
conjunction	9581 Jan 27 07:55	11°♒04'34	-0°27'06
minimum elong	9581 Jan 27 07:10	11°♒03'22	0°26'49
	9581 Feb 25 17:52	0°♓	
morning rise	9581 Mar 11 23:55	9°♓16'43	
	9581 Apr 12 09:03	0°♈	
	9581 May 26 15:29	0°♉	
	9581 Jul 08 13:24	0°♊	
	9581 Aug 19 08:51	0°♋	
	9581 Sep 29 17:50	0°♌	
	9581 Nov 11 10:18	0°♍	
asc. node	9581 Nov 20 11:38	6°♍00'48	
	9581 Dec 31 21:46	0°♎	
retrograde	9582 Feb 13 17:43	11°♎50'36	
min. Earth dist.	9582 Mar 13 04:13	6°♎36'49	0.45607 AU
greatest brilliancy	9582 Mar 19 23:16	4°♎15'44	-2.4m
opposition	9582 Mar 21 15:44	3°♎40'20	5°40'41
	9582 Apr 02 04:25	30°℞♍	
direct	9582 Apr 23 07:43	27°♍02'06	
	9582 May 15 14:10	0°♎	
	9582 Jul 23 20:38	0°♏	
	9582 Sep 14 20:22	0°♐	
desc. node	9582 Oct 23 13:07	23°♐01'51	
	9582 Nov 04 01:27	0°♑	
	9582 Dec 22 16:07	0°♒	
evening set	9583 Jan 18 15:09	17°♒05'39	
	9583 Feb 07 14:13	0°♓	
max. Earth dist.	9583 Feb 11 17:23	2°♓42'03	2.62001 AU
conjunction	9583 Mar 04 21:42	16°♓42'39	-0°58'56
minimum elong	9583 Mar 04 20:38	16°♓40'53	0°58'49
	9583 Mar 24 14:11	0°♈	
morning rise	9583 Apr 20 20:10	18°♈50'24	
	9583 May 06 15:04	0°♉	
	9583 Jun 16 20:59	0°♊	
	9583 Jul 26 17:30	0°♋	
	9583 Sep 03 19:23	0°♌	
asc. node	9583 Oct 08 08:01	26°♌26'56	
	9583 Oct 13 00:31	0°♍	
	9583 Nov 22 17:52	0°♎	
	9584 Jan 06 15:35	0°♏	
	9584 Mar 12 09:21	0°♐	
retrograde	9584 Mar 29 16:52	1°♐57'41	
	9584 Apr 15 05:44	30°℞♏	
min. Earth dist.	9584 May 02 05:05	24°♏29'13	0.58676 AU
greatest brilliancy	9584 May 07 08:42	22°♏27'58	-1.7m
opposition	9584 May 08 05:13	22°♏07'50	4°09'13
direct	9584 Jun 14 08:06	13°♏39'28	
	9584 Aug 14 04:54	0°♐	
desc. node	9584 Sep 09 16:07	12°♐39'17	
	9584 Oct 12 01:06	0°♑	
	9584 Dec 02 08:36	0°♒	
	9585 Jan 19 02:54	0°♓	
evening set	9585 Feb 25 12:22	24°♓50'48	
	9585 Mar 05 01:05	0°♈	
max. Earth dist.	9585 Mar 12 15:17	5°♈14'43	2.51453 AU

conjunction	9585 Apr 16 17:15	0°♉09'42	-1°05'59
minimum elong	9585 Apr 16 18:03	0°♉11'10	1°06'08
	9585 Apr 16 11:54	0°♉	
	9585 May 26 21:49	0°♊	
morning rise	9585 Jun 12 23:25	13°♊01'43	
	9585 Jul 04 21:22	0°♋	
	9585 Aug 12 04:06	0°♌	
asc. node	9585 Aug 25 04:42	10°♌13'03	
	9585 Sep 19 14:26	0°♍	
	9585 Oct 29 03:35	0°♎	
	9585 Dec 09 23:20	0°♏	
	9586 Jan 25 00:45	0°♐	
	9586 Mar 24 06:12	0°♑	
retrograde	9586 May 04 19:11	9°♑06'47	
min. Earth dist.	9586 Jun 12 01:36	0°♑04'35	0.66549 AU
	9586 Jun 12 06:12	30°℞♐	
opposition	9586 Jun 14 08:37	29°♐09'43	1°32'20
greatest brilliancy	9586 Jun 14 05:54	29°♐12'27	-1.4m
direct	9586 Jul 24 09:45	19°♐41'37	
desc. node	9586 Jul 28 18:31	19°♐48'22	
	9586 Sep 09 05:37	0°♑	
	9586 Nov 10 03:30	0°♒	
	9586 Dec 30 10:51	0°♓	
	9587 Feb 14 00:22	0°♈	
	9587 Mar 28 08:32	0°♉	
evening set	9587 Apr 15 12:32	13°♉26'36	
	9587 May 07 08:47	0°♊	
max. Earth dist.	9587 May 11 08:18	3°♊03'23	2.38217 AU
	9587 Jun 14 21:39	0°♋	
conjunction	9587 Jun 17 08:10	1°♋55'15	-0°18'24
minimum elong	9587 Jun 17 09:59	1°♋58'51	0°18'45
asc. node	9587 Jul 13 00:43	22°♋14'18	
	9587 Jul 22 20:04	0°♌	
morning rise	9587 Aug 29 10:32	29°♌31'27	
	9587 Aug 30 01:14	0°♍	
	9587 Oct 08 09:47	0°♎	
	9587 Nov 18 16:50	0°♏	
	9588 Jan 01 18:11	0°♐	
	9588 Feb 19 00:03	0°♑	
	9588 Apr 17 14:53	0°♒	
retrograde	9588 Jun 06 22:11	12°♒01'20	
desc. node	9588 Jun 14 18:01	11°♒37'59	
opposition	9588 Jul 17 02:46	2°♒30'20	-1°06'34
greatest brilliancy	9588 Jul 17 03:40	2°♒29'26	-1.3m
min. Earth dist.	9588 Jul 18 14:43	1°♒54'48	0.67962 AU
	9588 Jul 23 12:31	30°℞♑	
direct	9588 Aug 27 13:38	22°♑31'58	
	9588 Oct 05 02:01	0°♒	
	9588 Dec 06 11:03	0°♓	
	9589 Jan 23 11:28	0°♈	
	9589 Mar 07 10:24	0°♉	
	9589 Apr 16 11:18	0°♊	
	9589 May 24 21:23	0°♋	
asc. node	9589 May 29 22:56	4°♋00'11	
evening set	9589 Jun 22 16:04	22°♋47'52	
	9589 Jul 01 18:24	0°♌	
	9589 Aug 09 01:27	0°♍	
conjunction	9589 Sep 01 03:46	17°♍40'18	0°56'22
minimum elong	9589 Sep 01 00:56	17°♍34'55	0°56'15
	9589 Sep 17 14:29	0°♎	
max. Earth dist.	9589 Oct 20 07:51	23°♎49'32	2.45948 AU
	9589 Oct 29 00:43	0°♏	
morning rise	9589 Nov 03 02:04	3°♏33'22	
	9589 Dec 11 18:14	0°♐	
	9590 Jan 27 03:17	0°♑	
	9590 Mar 18 01:06	0°♒	
desc. node	9590 May 02 14:57	24°♒14'37	
	9590 May 15 02:36	0°♓	
retrograde	9590 Jul 14 00:22	15°♓46'17	
opposition	9590 Aug 21 13:33	7°♓04'09	-3°37'15
greatest brilliancy	9590 Aug 22 04:24	6°♓49'50	-1.5m
min. Earth dist.	9590 Aug 26 19:46	5°♓02'42	0.62778 AU
	9590 Sep 10 19:34	30°℞♒	
direct	9590 Oct 01 19:46	27°♒05'30	
	9590 Oct 24 04:10	0°♓	
	9590 Dec 29 05:51	0°♈	
	9591 Feb 13 04:25	0°♉	
	9591 Mar 26 04:03	0°♊	
asc. node	9591 Apr 17 01:01	16°♊46'49	
	9591 May 03 23:52	0°♋	
	9591 Jun 11 04:36	0°♌	
	9591 Jul 19 21:11	0°♍	
	9591 Aug 28 22:10	0°♎	
evening set	9591 Sep 02 00:09	2°♎59'07	
	9591 Oct 09 20:31	0°♏	
conjunction	9591 Oct 29 05:07	13°♏22'07	1°01'22
minimum elong	9591 Oct 29 06:20	13°♏24'11	1°01'36
	9591 Nov 22 20:55	0°♐	
max. Earth dist.	9591 Nov 25 10:59	1°♐43'11	2.58497 AU
morning rise	9591 Dec 18 19:56	17°♐04'46	
	9592 Jan 07 20:57	0°♑	
	9592 Feb 24 17:00	0°♒	
desc. node	9592 Mar 19 10:17	14°♒25'53	
	9592 Apr 14 17:18	0°♓	
	9592 Jun 08 08:47	0°♈	
retrograde	9592 Aug 28 18:06	26°♈11'03	
opposition	9592 Oct 03 01:13	18°♈53'54	-5°29'29
greatest brilliancy	9592 Oct 04 16:20	18°♈19'02	-2.0m
min. Earth dist.	9592 Oct 11 11:33	15°♈54'43	0.51400 AU
direct	9592 Nov 10 15:48	9°♈59'21	
	9593 Jan 11 00:47	0°♉	
	9593 Feb 27 01:52	0°♊	
asc. node	9593 Mar 04 03:17	3°♊34'25	
	9593 Apr 09 02:25	0°♋	
	9593 May 18 15:13	0°♌	
	9593 Jun 27 10:56	0°♍	
	9593 Aug 07 13:47	0°♎	
	9593 Sep 19 11:45	0°♏	
evening set	9593 Oct 22 00:03	21°♏54'11	
	9593 Nov 03 06:04	0°♐	
conjunction	9593 Dec 09 12:42	23°♐35'03	0°29'04
minimum elong	9593 Dec 09 13:38	23°♐36'32	0°29'24
	9593 Dec 19 12:34	0°♑	
max. Earth dist.	9593 Dec 19 17:00	0°♑07'05	2.66091 AU
morning rise	9594 Jan 23 15:20	22°♑20'19	
desc. node	9594 Feb 04 04:54	29°♑38'38	
	9594 Feb 04 18:27	0°♒	
	9594 Mar 24 12:46	0°♓	
	9594 May 11 17:52	0°♈	
	9594 Jun 30 00:32	0°♉	
	9594 Aug 21 22:54	0°♊	
retrograde	9594 Nov 05 17:16	25°♊10'39	
opposition	9594 Dec 06 02:06	20°♊02'13	-3°14'16
greatest brilliancy	9594 Dec 06 20:59	19°♊48'57	-2.9m
min. Earth dist.	9594 Dec 11 05:40	18°♊35'47	0.38338 AU
direct	9595 Jan 06 17:58	14°♊18'07	
asc. node	9595 Jan 20 04:16	15°♊33'08	
	9595 Feb 27 20:52	0°♋	
	9595 Apr 18 10:04	0°♌	
	9595 Jun 01 18:38	0°♍	

	9595 Jul 15 20:35	0°♎	
	9595 Aug 29 21:57	0°♏	
	9595 Oct 15 04:02	0°♐	
evening set	9595 Nov 30 17:39	29°♐39'11	
	9595 Dec 01 06:48	0°♑	
desc. node	9595 Dec 23 01:42	13°♑47'43	
max. Earth dist.	9596 Jan 11 09:26	26°♑02'16	2.68197 AU
conjunction	9596 Jan 14 16:44	28°♑08'02	-0°11'52
minimum elong	9596 Jan 14 16:23	28°♑07'29	0°11'33
behind sun begin	9596 Jan 14 03:29	27°♑47'02	
behind sun end	9596 Jan 15 05:17	28°♑27'56	
	9596 Jan 17 15:17	0°♒	
morning rise	9596 Feb 27 03:38	25°♒51'50	
	9596 Mar 04 13:58	0°♓	
	9596 Apr 19 16:28	0°♈	
	9596 Jun 03 18:32	0°♉	
	9596 Jul 17 20:54	0°♊	
	9596 Aug 30 07:38	0°♋	
	9596 Oct 13 06:12	0°♌	
	9596 Dec 01 12:39	0°♍	
asc. node	9596 Dec 07 05:26	2°♍52'36	
retrograde	9597 Jan 22 00:03	15°♍38'28	
min. Earth dist.	9597 Feb 16 20:31	11°♍11'28	0.40432 AU
greatest brilliancy	9597 Feb 22 23:46	9°♍17'43	-2.7m
opposition	9597 Feb 24 09:12	8°♍51'42	4°56'16
direct	9597 Mar 26 22:26	3°♍11'54	
	9597 Jun 12 23:42	0°♎	
	9597 Aug 04 16:12	0°♏	
	9597 Sep 23 11:58	0°♐	
desc. node	9597 Nov 09 01:26	28°♐31'44	
	9597 Nov 11 10:37	0°♑	
	9597 Dec 29 12:49	0°♒	
evening set	9598 Jan 04 15:58	3°♒52'40	
max. Earth dist.	9598 Feb 02 01:18	22°♒01'32	2.64791 AU
	9598 Feb 14 08:28	0°♓	
conjunction	9598 Feb 18 05:34	2°♓31'49	-0°48'27
minimum elong	9598 Feb 18 04:27	2°♓30'00	0°48'15
	9598 Mar 31 13:07	0°♈	
morning rise	9598 Apr 04 07:22	2°♈32'59	
	9598 May 13 23:43	0°♉	
	9598 Jun 24 18:26	0°♊	
	9598 Aug 04 04:51	0°♋	
	9598 Sep 12 21:01	0°♌	
	9598 Oct 22 19:05	0°♍	
asc. node	9598 Oct 25 03:11	1°♍43'37	
	9598 Dec 03 20:08	0°♎	
	9599 Jan 22 13:08	0°♏	
retrograde	9599 Mar 14 19:24	14°♏54'06	
min. Earth dist.	9599 Apr 15 00:27	8°♏14'18	0.53959 AU
greatest brilliancy	9599 Apr 21 01:41	5°♏55'35	-1.9m
opposition	9599 Apr 22 08:05	5°♏26'29	5°01'38
	9599 May 08 18:51	30°℞♎	
direct	9599 May 27 20:39	27°♎33'53	
	9599 Jun 17 11:17	0°♏	
	9599 Aug 28 22:26	0°♐	
desc. node	9599 Sep 27 03:37	15°♐53'28	
	9599 Oct 21 19:06	0°♑	
	9599 Dec 10 18:02	0°♒	
	9600 Jan 27 02:07	0°♓	
evening set	9600 Feb 10 16:46	9°♓35'16	
max. Earth dist.	9600 Feb 28 18:56	21°♓41'11	2.56109 AU
	9600 Mar 11 23:54	0°♈	
conjunction	9600 Mar 29 07:14	11°♈59'35	-1°07'47
minimum elong	9600 Mar 29 06:58	11°♈59'08	1°07'50
	9600 Apr 23 15:15	0°♉	
morning rise	9600 May 20 06:55	19°♉30'22	
	9600 Jun 03 07:55	0°♊	
	9600 Jul 12 14:23	0°♋	
	9600 Aug 20 03:07	0°♌	
asc. node	9600 Sep 10 21:52	16°♌58'12	
	9600 Sep 27 18:28	0°♍	
	9600 Nov 06 13:46	0°♎	
	9600 Dec 19 00:12	0°♏	
	9601 Feb 05 06:59	0°♐	
retrograde	9601 Apr 21 06:36	25°♐40'33	
min. Earth dist.	9601 May 27 20:16	17°♐11'04	0.64198 AU
opposition	9601 May 31 14:57	15°♐40'50	2°34'29
greatest brilliancy	9601 May 31 07:04	15°♐48'41	-1.5m
direct	9601 Jul 09 17:06	6°♐32'02	
desc. node	9601 Aug 14 06:45	12°♐54'35	
	9601 Sep 24 11:43	0°♑	
	9601 Nov 19 00:42	0°♒	
	9602 Jan 07 00:42	0°♓	