superior conj	10601 Jul 25 20:07	11°♌34'05	-0°37'00
minimum elong	10601 Jul 26 04:41	12°♌00'53	0°37'03
max. Earth dist.	10601 Jul 28 12:27	14°♌55'11	1.71754 AU
	10601 Aug 09 14:15	0°♍	
asc. node	10601 Aug 10 11:45	1°♍07'05	
evening rise	10601 Sep 02 20:56	0°♎13'00	
	10601 Sep 02 16:45	0°♎	
	10601 Sep 26 22:31	0°♏	
	10601 Oct 21 08:55	0°♐	
	10601 Nov 15 02:03	0°♑	
desc. node	10601 Nov 30 06:21	18°♑12'27	
	10601 Dec 10 04:21	0°♒	
	10602 Jan 04 19:01	0°♓	
	10602 Jan 31 05:28	0°♈	
	10602 Feb 28 13:45	0°♉	
evening max el	10602 Feb 28 22:14	0°♉20'59	46°26'41
asc. node	10602 Mar 23 06:12	20°♉12'51	
	10602 Apr 08 15:27	0°♊	
greatest brilliancy	10602 Apr 10 06:42	0°♊36'50	-4.9m
retrograde	10602 Apr 19 22:08	2°♊22'30	
	10602 Apr 30 17:50	30°℞♉	
evening set	10602 May 07 15:15	26°♉23'11	
inferior conj	10602 May 10 14:56	24°♉34'00	9°00'39
minimum elong	10602 May 10 10:05	24°♉41'29	8°59'54
min. Earth dist.	10602 May 10 16:02	24°♉32'20	0.27242 AU
morning rise	10602 May 13 04:52	22°♉59'11	
direct	10602 May 31 07:43	16°♉41'59	
greatest brilliancy	10602 Jun 10 03:25	18°♉31'06	-4.9m
	10602 Jun 29 09:36	0°♊	
desc. node	10602 Jul 13 04:46	12°♊01'31	
morning max el	10602 Jul 20 18:13	19°♊23'15	46°51'57
	10602 Jul 31 00:56	0°♋	
	10602 Aug 27 03:49	0°♌	
	10602 Sep 21 23:56	0°♍	
	10602 Oct 17 06:30	0°♎	
asc. node	10602 Nov 03 01:20	20°♎09'49	
	10602 Nov 11 04:46	0°♏	
	10602 Dec 05 20:47	0°♐	
	10602 Dec 30 08:09	0°♑	
morning set	10603 Jan 17 07:42	22°♑08'52	
	10603 Jan 23 16:20	0°♒	
	10603 Feb 16 22:12	0°♓	
max. Earth dist.	10603 Feb 21 15:35	5°♓51'34	1.72493 AU
desc. node	10603 Feb 22 17:21	7°♓11'33	
superior conj	10603 Feb 24 07:27	9°♓09'44	-0°03'53
minimum elong	10603 Feb 24 06:34	9°♓07'02	0°03'36
behind sun begin	10603 Feb 23 06:45	7°♓53'06	
behind sun end	10603 Feb 25 06:24	10°♓20'59	
	10603 Mar 13 01:49	0°♈	
evening rise	10603 Apr 04 10:04	27°♈51'29	
	10603 Apr 06 03:13	0°♉	
	10603 Apr 30 03:13	0°♊	
	10603 May 24 03:40	0°♋	
asc. node	10603 Jun 15 12:55	27°♋48'58	
	10603 Jun 17 07:17	0°♌	
	10603 Jul 11 17:21	0°♍	
	10603 Aug 05 14:36	0°♎	
	10603 Aug 31 08:20	0°♏	
	10603 Sep 27 22:18	0°♐	
desc. node	10603 Oct 05 10:32	7°♐31'33	
evening max el	10603 Oct 06 06:32	8°♐20'12	45°55'09
	10603 Nov 01 01:03	0°♑	
greatest brilliancy	10603 Nov 14 07:52	6°♑53'09	-4.7m
retrograde	10603 Nov 24 08:56	8°♑43'02	
evening set	10603 Dec 12 05:26	2°♑41'57	
inferior conj	10603 Dec 15 20:06	0°♑27'50	-7°59'03
minimum elong	10603 Dec 16 03:38	0°♑16'01	7°57'37
min. Earth dist.	10603 Dec 16 05:19	0°♑13'23	0.29003 AU
	10603 Dec 16 13:51	30°℞♐	
morning rise	10603 Dec 20 01:45	27°♐51'14	
direct	10604 Jan 06 07:21	22°♐10'41	
greatest brilliancy	10604 Jan 17 03:11	24°♐19'24	-4.8m
asc. node	10604 Jan 26 10:58	28°♐59'11	
	10604 Jan 28 01:47	0°♑	
morning max el	10604 Feb 24 20:20	23°♑25'11	46°05'35
	10604 Mar 02 09:04	0°♒	
	10604 Mar 29 20:56	0°♓	
	10604 Apr 24 13:24	0°♈	
desc. node	10604 May 17 06:55	27°♈24'33	
	10604 May 19 09:55	0°♉	
	10604 Jun 12 19:45	0°♊	
	10604 Jul 07 00:12	0°♋	
	10604 Jul 31 02:52	0°♌	
	10604 Aug 24 05:50	0°♍	
morning set	10604 Aug 28 09:04	5°♍08'07	
asc. node	10604 Sep 07 00:48	17°♍07'29	
	10604 Sep 17 09:53	0°♎	
superior conj	10604 Oct 05 11:27	22°♎22'59	1°01'55
minimum elong	10604 Oct 05 01:35	21°♎52'26	1°01'43
max. Earth dist.	10604 Oct 07 07:49	24°♎40'21	1.72846 AU
	10604 Oct 11 15:07	0°♏	
	10604 Nov 04 21:56	0°♐	
evening rise	10604 Nov 11 06:19	7°♐49'37	
	10604 Nov 29 07:08	0°♑	
	10604 Dec 23 19:33	0°♒	
desc. node	10604 Dec 27 18:02	4°♒47'59	
	10605 Jan 17 11:27	0°♓	
	10605 Feb 11 06:56	0°♈	
	10605 Mar 08 07:39	0°♉	
	10605 Apr 02 19:47	0°♊	
asc. node	10605 Apr 19 16:35	19°♊12'25	
	10605 Apr 29 12:25	0°♋	
evening max el	10605 May 13 02:45	14°♋12'44	46°53'29
	10605 May 30 00:50	0°♌	
greatest brilliancy	10605 Jun 22 06:22	14°♌54'24	-4.9m
retrograde	10605 Jul 02 11:56	16°♌51'57	
evening set	10605 Jul 17 23:04	12°♌09'44	
inferior conj	10605 Jul 23 05:54	9°♌00'49	4°19'19
minimum elong	10605 Jul 23 14:57	8°♌46'57	4°16'15
min. Earth dist.	10605 Jul 23 06:14	9°♌00'18	0.27156 AU
morning rise	10605 Jul 29 07:12	5°♌27'48	
desc. node	10605 Aug 09 15:31	1°♌27'54	
direct	10605 Aug 13 00:42	1°♌14'05	
greatest brilliancy	10605 Aug 22 21:02	3°♌02'25	-4.8m
	10605 Sep 29 03:38	0°♍	
morning max el	10605 Oct 01 13:10	2°♍18'26	46°08'26
	10605 Oct 28 04:56	0°♎	
	10605 Nov 23 21:34	0°♏	
asc. node	10605 Nov 30 14:00	7°♏44'01	
	10605 Dec 19 12:50	0°♐	
	10606 Jan 13 13:12	0°♑	
	10606 Feb 07 04:09	0°♒	
	10606 Mar 03 12:55	0°♓	
desc. node	10606 Mar 22 06:37	23°♓14'00	
	10606 Mar 27 17:07	0°♈	
morning set	10606 Mar 29 22:02	2°♈44'50	
	10606 Apr 20 17:38	0°♉	
max. Earth dist.	10606 May 07 10:53	20°♉57'55	1.71391 AU

superior conj	10606 May 09	06:01	23°♉13'19	-1°25'18
minimum elong	10606 May 09	00:29	22°♉55'57	1°25'38
	10606 May 14	15:32	0°♊	
	10606 Jun 07	12:35	0°♋	
evening rise	10606 Jun 18	15:50	13°♋58'34	
	10606 Jul 01	10:48	0°♌	
asc. node	10606 Jul 13	00:57	14°♌28'36	
	10606 Jul 25	12:08	0°♍	
	10606 Aug 18	18:19	0°♎	
	10606 Sep 12	07:43	0°♏	
	10606 Oct 07	08:37	0°♐	
desc. node	10606 Nov 01	21:09	29°♐38'28	
	10606 Nov 02	04:44	0°♑	
	10606 Nov 29	12:27	0°♒	
evening max el	10606 Dec 16	13:41	17°♒12'08	45°51'20
	10606 Dec 30	19:08	0°♓	
greatest brilliancy	10607 Jan 24	17:29	15°♓34'08	-4.8m
retrograde	10607 Feb 03	10:39	17°♓17'42	
evening set	10607 Feb 18	03:48	13°♓05'41	
asc. node	10607 Feb 22	21:46	10°♓19'03	
inferior conj	10607 Feb 24	11:04	9°♓21'10	0°23'31
minimum elong	10607 Feb 24	10:09	9°♓22'35	0°23'28
min. Earth dist.	10607 Feb 24	20:44	9°♓06'06	0.27796 AU
morning rise	10607 Mar 02	15:54	5°♓38'31	
direct	10607 Mar 17	12:56	1°♓17'17	
greatest brilliancy	10607 Mar 28	05:14	3°♓24'32	-4.8m
	10607 May 02	23:44	0°♈	
morning max el	10607 May 06	19:38	3°♈47'30	46°49'16
	10607 May 31	07:29	0°♉	
desc. node	10607 Jun 14	19:15	16°♉33'31	
	10607 Jun 26	06:39	0°♊	
	10607 Jul 21	08:01	0°♋	
	10607 Aug 15	00:08	0°♌	
	10607 Sep 08	12:36	0°♍	
	10607 Oct 02	23:26	0°♎	
asc. node	10607 Oct 05	14:12	3°♎12'51	
	10607 Oct 27	08:54	0°♏	
morning set	10607 Nov 07	09:54	13°♏36'12	
	10607 Nov 20	17:08	0°♐	
superior conj	10607 Dec 14	01:08	28°♐47'07	1°19'50
minimum elong	10607 Dec 14	07:50	29°♐07'47	1°20'15
max. Earth dist.	10607 Dec 13	22:28	28°♐38'55	1.73217 AU
	10607 Dec 15	00:46	0°♑	
	10608 Jan 08	08:32	0°♒	
evening rise	10608 Jan 20	10:42	14°♒54'17	
desc. node	10608 Jan 25	06:21	20°♒50'40	
	10608 Feb 01	16:33	0°♓	
	10608 Feb 26	00:23	0°♈	
	10608 Mar 21	07:50	0°♉	
	10608 Apr 14	16:17	0°♊	
	10608 May 09	05:17	0°♋	
asc. node	10608 May 17	03:27	9°♋35'15	
	10608 Jun 03	05:13	0°♌	
	10608 Jun 29	04:20	0°♍	
evening max el	10608 Jul 23	23:59	26°♍30'11	46°32'44
	10608 Jul 27	13:03	0°♎	
greatest brilliancy	10608 Sep 01	01:07	26°♎24'13	-4.8m
desc. node	10608 Sep 06	02:12	27°♎57'47	
retrograde	10608 Sep 12	01:37	28°♎38'55	
evening set	10608 Sep 27	22:55	23°♎46'38	
min. Earth dist.	10608 Oct 02	15:13	20°♎57'53	0.28390 AU
inferior conj	10608 Oct 03	10:44	20°♎27'28	-6°07'42
minimum elong	10608 Oct 03	00:29	20°♎43'27	6°05'20
morning rise	10608 Oct 08	02:27	17°♎37'38	
direct	10608 Oct 24	15:32	12°♎25'14	
greatest brilliancy	10608 Nov 03	07:28	14°♎06'13	-4.7m
	10608 Nov 28	19:15	0°♏	
morning max el	10608 Dec 12	08:52	12°♏13'21	45°41'45
asc. node	10608 Dec 28	01:49	28°♏04'20	
	10608 Dec 29	21:41	0°♐	
	10609 Jan 25	23:53	0°♑	
	10609 Feb 20	15:14	0°♒	
	10609 Mar 17	13:00	0°♓	
	10609 Apr 11	00:20	0°♈	
desc. node	10609 Apr 18	19:53	9°♈39'43	
	10609 May 05	04:46	0°♉	
	10609 May 29	04:45	0°♊	
morning set	10609 Jun 13	14:06	19°♊17'58	
	10609 Jun 22	02:42	0°♋	
	10609 Jul 16	00:50	0°♌	
superior conj	10609 Jul 23	09:07	9°♌11'47	-0°40'23
minimum elong	10609 Jul 23	18:19	9°♌40'34	0°40'25
max. Earth dist.	10609 Jul 25	22:26	12°♌23'33	1.71717 AU
	10609 Aug 09	00:44	0°♍	
asc. node	10609 Aug 09	13:39	0°♍40'16	
evening rise	10609 Aug 31	12:14	27°♍58'56	
	10609 Sep 02	03:14	0°♎	
	10609 Sep 26	09:07	0°♏	
	10609 Oct 20	19:45	0°♐	
	10609 Nov 14	13:19	0°♑	
desc. node	10609 Nov 29	08:13	17°♑43'18	
	10609 Dec 09	16:21	0°♒	
	10610 Jan 04	08:20	0°♓	
	10610 Jan 30	21:23	0°♈	
evening max el	10610 Feb 26	12:07	28°♈01'06	46°25'20
	10610 Feb 28	12:40	0°♉	
asc. node	10610 Mar 22	08:16	18°♉58'42	
greatest brilliancy	10610 Apr 07	18:34	28°♉11'51	-4.9m
retrograde	10610 Apr 17	11:35	29°♉58'47	
evening set	10610 May 05	00:23	24°♉04'41	
inferior conj	10610 May 08	03:56	22°♉09'48	8°54'50
minimum elong	10610 May 07	22:14	22°♉18'35	8°53'58
min. Earth dist.	10610 May 08	04:17	22°♉09'15	0.27252 AU
morning rise	10610 May 10	20:02	20°♉31'51	
direct	10610 May 28	21:19	14°♉17'28	
greatest brilliancy	10610 Jun 07	16:17	16°♉06'32	-4.9m
	10610 Jun 29	22:17	0°♊	
desc. node	10610 Jul 12	06:37	11°♊04'58	
morning max el	10610 Jul 18	08:53	17°♊03'30	46°53'03
	10610 Jul 30	19:54	0°♋	
	10610 Aug 26	18:32	0°♌	
	10610 Sep 21	12:44	0°♍	
	10610 Oct 16	18:14	0°♎	
asc. node	10610 Nov 02	03:14	19°♎41'29	
	10610 Nov 10	15:52	0°♏	
	10610 Dec 05	07:31	0°♐	
	10610 Dec 29	18:42	0°♑	
morning set	10611 Jan 15	00:24	20°♑00'07	
	10611 Jan 23	02:48	0°♒	
	10611 Feb 16	08:39	0°♓	
max. Earth dist.	10611 Feb 19	09:16	3°♓45'08	1.72530 AU
superior conj	10611 Feb 21	21:48	6°♓52'50	-0°00'15
minimum elong	10611 Feb 21	21:48	6°♓52'53	0°00'00
behind sun begin	10611 Feb 21	18:44	6°♓43'20	
behind sun end	10611 Feb 22	00:53	7°♓02'26	
desc. node	10611 Feb 21	19:20	6°♓45'10	
	10611 Mar 12	12:20	0°♈	
evening rise	10611 Apr 01	23:13	25°♈29'34	
	10611 Apr 05	13:52	0°♉	
	10611 Apr 29	14:02	0°♊	
	10611 May 23	14:44	0°♋	

asc. node	10611 Jun 14 14:46	27°♋19'38	
	10611 Jun 16 18:39	0°♌	
	10611 Jul 11 05:11	0°♍	
	10611 Aug 05 03:18	0°♎	
	10611 Aug 30 22:49	0°♏	
	10611 Sep 27 17:27	0°♐	
evening max el	10611 Oct 03 22:47	6°♐10'52	45°56'03
desc. node	10611 Oct 04 12:36	6°♐44'23	
	10611 Nov 02 02:44	0°♑	
greatest brilliancy	10611 Nov 11 22:31	4°♑43'14	-4.7m
retrograde	10611 Nov 22 01:10	6°♑34'04	
evening set	10611 Dec 09 23:42	0°♑29'36	
	10611 Dec 10 19:08	30°℞♐	
inferior conj	10611 Dec 13 12:16	28°♐18'24	-8°06'38
minimum elong	10611 Dec 13 19:16	28°♐07'25	8°05'20
min. Earth dist.	10611 Dec 13 20:07	28°♐06'05	0.29025 AU
morning rise	10611 Dec 17 14:48	25°♐46'24	
direct	10612 Jan 04 00:16	20°♐01'27	
greatest brilliancy	10612 Jan 14 17:54	22°♐08'17	-4.8m
asc. node	10612 Jan 25 12:58	27°♐42'12	
	10612 Jan 28 23:08	0°♑	
morning max el	10612 Feb 22 12:10	21°♑13'12	46°04'01
	10612 Mar 02 04:07	0°♒	
	10612 Mar 29 11:31	0°♓	
	10612 Apr 24 02:14	0°♈	
desc. node	10612 May 16 08:50	26°♈53'46	
	10612 May 18 21:52	0°♉	
	10612 Jun 12 07:12	0°♊	
	10612 Jul 06 11:20	0°♋	
	10612 Jul 30 13:44	0°♌	
	10612 Aug 23 16:31	0°♍	
morning set	10612 Aug 25 23:49	2°♍51'46	
asc. node	10612 Sep 06 02:50	16°♍40'51	
	10612 Sep 16 20:25	0°♎	
superior conj	10612 Oct 03 03:47	20°♎12'31	0°59'30
minimum elong	10612 Oct 02 17:55	19°♎41'58	0°59'17
max. Earth dist.	10612 Oct 05 03:57	22°♎41'41	1.72812 AU
	10612 Oct 11 01:35	0°♏	
	10612 Nov 04 08:24	0°♐	
evening rise	10612 Nov 08 23:30	5°♐42'26	
	10612 Nov 28 17:43	0°♑	
	10612 Dec 23 06:24	0°♒	
desc. node	10612 Dec 26 19:56	4°♒20'32	
	10613 Jan 16 22:44	0°♓	
	10613 Feb 10 18:52	0°♈	
	10613 Mar 07 20:36	0°♉	
	10613 Apr 02 10:30	0°♊	
asc. node	10613 Apr 18 18:34	18°♊31'23	
	10613 Apr 29 07:07	0°♋	
evening max el	10613 May 10 16:32	11°♋50'23	46°53'13
	10613 May 30 11:38	0°♌	
greatest brilliancy	10613 Jun 19 21:21	12°♌32'46	-4.9m
retrograde	10613 Jun 30 01:05	14°♌28'28	
evening set	10613 Jul 15 15:18	9°♌42'51	
inferior conj	10613 Jul 20 19:04	6°♌38'02	4°40'20
minimum elong	10613 Jul 21 04:38	6°♌23'19	4°37'10
min. Earth dist.	10613 Jul 20 20:21	6°♌36'03	0.27141 AU
morning rise	10613 Jul 26 18:18	3°♌07'24	
	10613 Aug 03 00:51	30°℞♋	
desc. node	10613 Aug 08 17:39	28°♋55'33	
direct	10613 Aug 10 13:42	28°♋51'31	
	10613 Aug 18 08:17	0°♌	
greatest brilliancy	10613 Aug 20 10:15	0°♌39'46	-4.8m
morning max el	10613 Sep 29 02:13	29°♌57'47	46°10'00
	10613 Sep 29 03:08	0°♍	
	10613 Oct 27 20:59	0°♎	
	10613 Nov 23 10:55	0°♏	
asc. node	10613 Nov 29 15:52	7°♏11'50	
	10613 Dec 19 00:52	0°♐	
	10614 Jan 13 00:33	0°♑	
	10614 Feb 06 15:08	0°♒	
	10614 Mar 02 23:44	0°♓	
desc. node	10614 Mar 21 08:35	22°♓46'36	
morning set	10614 Mar 27 10:27	0°♈20'26	
	10614 Mar 27 03:53	0°♈	
	10614 Apr 20 04:24	0°♉	
max. Earth dist.	10614 May 04 14:35	18°♉05'11	1.71414 AU
superior conj	10614 May 06 17:35	20°♉45'11	-1°24'17
minimum elong	10614 May 06 11:07	20°♉24'55	1°24'36
	10614 May 14 02:19	0°♊	
	10614 Jun 06 23:23	0°♋	
evening rise	10614 Jun 16 02:40	11°♋28'01	
	10614 Jun 30 21:41	0°♌	
asc. node	10614 Jul 12 02:53	14°♌00'32	
	10614 Jul 24 23:10	0°♍	
	10614 Aug 18 05:36	0°♎	
	10614 Sep 11 19:26	0°♏	
	10614 Oct 06 21:08	0°♐	
desc. node	10614 Oct 31 23:04	29°♐04'05	
	10614 Nov 01 18:49	0°♑	
	10614 Nov 29 06:16	0°♒	
evening max el	10614 Dec 14 03:08	14°♒55'04	45°50'46
	10614 Dec 31 03:58	0°♓	
greatest brilliancy	10615 Jan 22 08:19	13°♓18'38	-4.8m
retrograde	10615 Feb 01 00:30	15°♓01'44	
evening set	10615 Feb 15 19:04	10°♓48'03	
asc. node	10615 Feb 21 23:49	7°♓07'35	
inferior conj	10615 Feb 22 01:44	7°♓04'36	0°01'12
minimum elong	10615 Feb 22 01:40	7°♓04'42	0°01'27
transit middle	10615 Feb 22 01:40	7°♓04'42	0°01'27
transit begin	10615 Feb 21 21:38	7°♓10'59	
transit end	10615 Feb 22 05:43	6°♓58'24	
min. Earth dist.	10615 Feb 22 12:27	6°♓47'55	0.27837 AU
morning rise	10615 Feb 28 07:35	3°♓20'25	
	10615 Mar 08 02:59	30°℞♒	
direct	10615 Mar 15 03:26	28°♒59'49	
	10615 Mar 22 09:31	0°♓	
greatest brilliancy	10615 Mar 25 21:57	1°♓08'52	-4.8m
	10615 May 02 22:57	0°♈	
morning max el	10615 May 04 09:37	1°♈26'31	46°48'08
	10615 May 30 23:47	0°♉	
desc. node	10615 Jun 13 21:09	15°♉56'13	
	10615 Jun 25 20:30	0°♊	
	10615 Jul 20 20:38	0°♋	
	10615 Aug 14 12:01	0°♌	
	10615 Sep 07 24:00	0°♍	
	10615 Oct 02 10:29	0°♎	
asc. node	10615 Oct 04 16:03	2°♎44'39	
	10615 Oct 26 19:43	0°♏	
morning set	10615 Nov 05 02:35	11°♏26'31	
	10615 Nov 20 03:49	0°♐	
superior conj	10615 Dec 11 18:24	26°♐39'27	1°21'01
minimum elong	10615 Dec 12 00:32	26°♐58'23	1°21'27
max. Earth dist.	10615 Dec 11 16:27	26°♐33'27	1.73221 AU
	10615 Dec 14 11:26	0°♑	
	10616 Jan 07 19:15	0°♒	
evening rise	10616 Jan 18 02:47	12°♒42'44	
desc. node	10616 Jan 24 08:22	20°♒23'35	
	10616 Feb 01 03:26	0°♓	
	10616 Feb 25 11:29	0°♈	
	10616 Mar 20 19:17	0°♉	

	10616 Apr 14 04:12	0°♊		
	10616 May 08 17:57	0°♋		
asc. node	10616 May 16 05:16	9°♋01'40		
	10616 Jun 02 19:10	0°♌		
	10616 Jun 28 20:51	0°♍		
evening max el	10616 Jul 21 14:14	24°♍10'36	46°34'08	
	10616 Jul 27 13:10	0°♎		
greatest brilliancy	10616 Aug 29 16:05	24°♎08'10	-4.8m	
desc. node	10616 Sep 05 04:14	25°♎59'50		
retrograde	10616 Sep 09 17:17	26°♎24'00		
evening set	10616 Sep 25 11:18	21°♎35'31		
min. Earth dist.	10616 Sep 30 06:07	18°♎43'36	0.28339 AU	
inferior conj	10616 Oct 01 01:51	18°♎12'57	-5°52'22	
minimum elong	10616 Sep 30 15:39	18°♎28'49	5°49'56	
morning rise	10616 Oct 05 20:25	15°♎19'25		
direct	10616 Oct 22 05:59	10°♎11'14		
greatest brilliancy	10616 Oct 31 22:12	11°♎52'40	-4.7m	
	10616 Nov 29 01:04	0°♏		
morning max el	10616 Dec 10 00:08	10°♏00'36	45°41'58	
asc. node	10616 Dec 27 03:49	27°♏22'49		
	10616 Dec 29 15:00	0°♐		
	10617 Jan 25 13:52	0°♑		
	10617 Feb 20 03:47	0°♒		
	10617 Mar 17 00:50	0°♓		
	10617 Apr 10 11:46	0°♈		
desc. node	10617 Apr 17 21:46	9°♈10'27		
	10617 May 04 15:58	0°♉		
	10617 May 28 15:50	0°♊		
morning set	10617 Jun 11 01:34	16°♊48'44		
	10617 Jun 21 13:42	0°♋		
	10617 Jul 15 11:48	0°♌		
superior conj	10617 Jul 20 21:35	6°♌46'21	-0°43'43	
minimum elong	10617 Jul 21 07:22	7°♌16'57	0°43'46	
max. Earth dist.	10617 Jul 23 08:56	9°♌52'03	1.71685 AU	
	10617 Aug 08 11:40	0°♍		
asc. node	10617 Aug 08 15:39	0°♍12'24		
evening rise	10617 Aug 29 03:00	25°♍41'51		
	10617 Sep 01 14:10	0°♎		
	10617 Sep 25 20:08	0°♏		
	10617 Oct 20 07:02	0°♐		
	10617 Nov 14 01:03	0°♑		
desc. node	10617 Nov 28 10:09	17°♑12'56		
	10617 Dec 09 04:53	0°♒		
	10618 Jan 03 22:14	0°♓		
	10618 Jan 30 14:02	0°♈		
evening max el	10618 Feb 24 02:54	25°♈42'30	46°24'06	
	10618 Feb 28 13:05	0°♉		
asc. node	10618 Mar 21 10:14	17°♉41'10		
greatest brilliancy	10618 Apr 05 06:30	25°♉46'33	-4.9m	
retrograde	10618 Apr 15 01:17	27°♉34'30		
evening set	10618 May 02 09:29	21°♉46'16		
inferior conj	10618 May 05 17:05	19°♉45'12	8°48'05	
minimum elong	10618 May 05 10:35	19°♉55'13	8°47'05	
min. Earth dist.	10618 May 05 16:31	19°♉46'04	0.27259 AU	
morning rise	10618 May 08 11:40	18°♉03'34		
direct	10618 May 26 11:14	11°♉52'51		
greatest brilliancy	10618 Jun 05 04:51	13°♉41'01	-4.9m	
	10618 Jun 30 08:02	0°♊		
desc. node	10618 Jul 11 08:46	10°♊09'21		
morning max el	10618 Jul 15 23:23	14°♊42'15	46°53'46	
	10618 Jul 30 14:48	0°♋		
	10618 Aug 26 09:33	0°♌		
	10618 Sep 21 01:58	0°♍		
	10618 Oct 16 06:25	0°♎		
asc. node	10618 Nov 01 05:08	19°♎11'42		
	10618 Nov 10 03:25	0°♏		
	10618 Dec 04 18:42	0°♐		
	10618 Dec 29 05:40	0°♑		
morning set	10619 Jan 12 16:59	17°♑49'37		
	10619 Jan 22 13:42	0°♒		
	10619 Feb 15 19:33	0°♓		
max. Earth dist.	10619 Feb 17 00:45	1°♓30'30	1.72565 AU	
superior conj	10619 Feb 19 12:15	4°♓34'57	0°03'22	
minimum elong	10619 Feb 19 13:06	4°♓37'36	0°03'36	
behind sun begin	10619 Feb 18 13:25	3°♓24'09		
behind sun end	10619 Feb 20 12:48	5°♓51'04		
desc. node	10619 Feb 20 21:16	6°♓17'22		
	10619 Mar 11 23:17	0°♈		
evening rise	10619 Mar 30 12:31	23°♈06'51		
	10619 Apr 05 00:55	0°♉		
	10619 Apr 29 01:14	0°♊		
	10619 May 23 02:07	0°♋		
asc. node	10619 Jun 13 16:46	26°♋49'48		
	10619 Jun 16 06:21	0°♌		
	10619 Jul 10 17:26	0°♍		
	10619 Aug 04 16:32	0°♎		
	10619 Aug 30 14:01	0°♏		
	10619 Sep 27 13:52	0°♐		
evening max el	10619 Oct 01 14:35	3°♐58'42	45°56'54	
desc. node	10619 Oct 03 14:32	5°♐54'24		
	10619 Nov 03 16:58	0°♑		
greatest brilliancy	10619 Nov 09 13:44	2°♑32'07	-4.7m	
retrograde	10619 Nov 19 16:50	4°♑23'09		
	10619 Dec 04 17:54	30°℞♐		
evening set	10619 Dec 07 17:41	28°♐15'49		
inferior conj	10619 Dec 11 04:19	26°♐07'17	-8°13'28	
minimum elong	10619 Dec 11 10:43	25°♐57'13	8°12'19	
min. Earth dist.	10619 Dec 11 11:00	25°♐56'46	0.29042 AU	
morning rise	10619 Dec 15 03:44	23°♐39'40		
direct	10620 Jan 01 16:42	17°♐50'36		
greatest brilliancy	10620 Jan 12 08:32	19°♐55'29	-4.8m	
asc. node	10620 Jan 24 15:04	26°♐26'08		
	10620 Jan 29 15:37	0°♑		
morning max el	10620 Feb 20 02:58	18°♑57'20	46°02'29	
	10620 Mar 01 23:07	0°♒		
	10620 Mar 29 02:20	0°♓		
	10620 Apr 23 15:21	0°♈		
desc. node	10620 May 15 10:42	26°♈21'51		
	10620 May 18 10:07	0°♉		
	10620 Jun 11 18:55	0°♊		
	10620 Jul 05 22:41	0°♋		
	10620 Jul 30 00:50	0°♌		
	10620 Aug 23 03:26	0°♍		
morning set	10620 Aug 23 14:40	0°♍34'54		
asc. node	10620 Sep 05 04:40	16°♍12'46		
	10620 Sep 16 07:14	0°♎		
superior conj	10620 Sep 30 20:02	18°♎00'48	0°57'00	
minimum elong	10620 Sep 30 10:14	17°♎30'28	0°56'45	
max. Earth dist.	10620 Oct 02 22:04	20°♎35'43	1.72781 AU	
	10620 Oct 10 12:23	0°♏		
	10620 Nov 03 19:13	0°♐		
evening rise	10620 Nov 06 16:27	3°♐33'21		
	10620 Nov 28 04:40	0°♑		
	10620 Dec 22 17:37	0°♒		
desc. node	10620 Dec 25 21:55	3°♒52'19		
	10621 Jan 16 10:24	0°♓		
	10621 Feb 10 07:13	0°♈		
	10621 Mar 07 10:01	0°♉		
	10621 Apr 02 01:47	0°♊		
asc. node	10621 Apr 17 20:30	17°♊48'42		
	10621 Apr 29 02:41	0°♋		

evening max el	10621 May 08	05:32	9°♋25'08	46°53'02	
	10621 May 31	02:27	0°♌		
greatest brilliancy	10621 Jun 17	12:50	10°♌11'15	-4.9m	
retrograde	10621 Jun 27	14:06	12°♌05'02		
evening set	10621 Jul 13	07:46	7°♌15'41		
inferior conj	10621 Jul 18	08:25	4°♌15'19	5°00'38	
minimum elong	10621 Jul 18	18:27	3°♌59'55	4°57'26	
min. Earth dist.	10621 Jul 18	10:48	4°♌11'40	0.27125 AU	
morning rise	10621 Jul 24	05:20	0°♌47'27		
	10621 Jul 25	17:36	30℞♋		
desc. node	10621 Aug 07	19:34	26°♋28'58		
direct	10621 Aug 08	02:22	26°♋28'53		
greatest brilliancy	10621 Aug 17	23:57	28°♋17'41	-4.8m	
	10621 Aug 22	03:13	0°♌		
morning max el	10621 Sep 26	15:05	27°♌36'14	46°11'32	
	10621 Sep 29	01:43	0°♍		
	10621 Oct 27	12:54	0°♎		
	10621 Nov 23	00:21	0°♏		
asc. node	10621 Nov 28	17:51	6°♏39'31		
	10621 Dec 18	13:05	0°♐		
	10622 Jan 12	12:06	0°♑		
	10622 Feb 06	02:20	0°♒		
	10622 Mar 02	10:45	0°♓		
desc. node	10622 Mar 20	10:20	22°♓17'59		
morning set	10622 Mar 24	22:47	27°♓55'18		
	10622 Mar 26	14:50	0°♈		
	10622 Apr 19	15:20	0°♉		
max. Earth dist.	10622 May 01	20:40	15°♉19'23	1.71441 AU	
superior conj	10622 May 04	05:04	18°♉16'19	-1°23'07	
minimum elong	10622 May 03	21:45	17°♉53'22	1°23'23	
	10622 May 13	13:16	0°♊		
	10622 Jun 06	10:22	0°♋		
evening rise	10622 Jun 13	13:34	8°♋57'10		
	10622 Jun 30	08:44	0°♌		
asc. node	10622 Jul 11	04:53	13°♌32'14		
	10622 Jul 24	10:19	0°♍		
	10622 Aug 17	16:57	0°♎		
	10622 Sep 11	07:13	0°♏		
	10622 Oct 06	09:43	0°♐		
desc. node	10622 Oct 31	01:00	28°♐29'24		
	10622 Nov 01	09:06	0°♑		
	10622 Nov 29	00:39	0°♒		
evening max el	10622 Dec 11	17:03	12°♒38'59	45°50'11	
	10622 Dec 31	16:11	0°♓		
greatest brilliancy	10623 Jan 19	22:45	11°♓02'27	-4.8m	
retrograde	10623 Jan 29	14:56	12°♓45'43		
evening set	10623 Feb 13	10:32	8°♓29'59		
inferior conj	10623 Feb 19	16:26	4°♓47'49	-0°20'57	
minimum elong	10623 Feb 19	17:13	4°♓46'35	0°20'26	
min. Earth dist.	10623 Feb 20	03:57	4°♓29'54	0.27881 AU	
asc. node	10623 Feb 21	01:43	3°♓56'08		
morning rise	10623 Feb 25	23:10	1°♓02'35		
	10623 Feb 27	23:06	30℞♒		
direct	10623 Mar 12	18:15	26°♒42'12		
greatest brilliancy	10623 Mar 23	14:24	28°♒52'54	-4.8m	
	10623 Mar 26	06:02	0°♓		
morning max el	10623 May 02	00:32	29°♓07'54	46°46'57	
	10623 May 02	21:16	0°♈		
	10623 May 30	15:50	0°♉		
desc. node	10623 Jun 12	23:12	15°♉19'31		
	10623 Jun 25	10:14	0°♊		
	10623 Jul 20	09:11	0°♋		
	10623 Aug 13	23:51	0°♌		
	10623 Sep 07	11:20	0°♍		
	10623 Oct 01	21:26	0°♎		
asc. node	10623 Oct 03	17:55	2°♎16'47		
	10623 Oct 26	06:25	0°♏		
morning set	10623 Nov 02	19:39	9°♏18'21		
	10623 Nov 19	14:24	0°♐		
superior conj	10623 Dec 09	11:54	24°♐32'46	1°22'03	
minimum elong	10623 Dec 09	17:28	24°♐49'57	1°22'31	
max. Earth dist.	10623 Dec 09	12:41	24°♐35'12	1.73230 AU	
	10623 Dec 13	22:00	0°♑		
	10624 Jan 07	05:55	0°♒		
evening rise	10624 Jan 15	18:58	10°♒31'44		
desc. node	10624 Jan 23	10:17	19°♒56'22		
	10624 Jan 31	14:16	0°♓		
	10624 Feb 24	22:34	0°♈		
	10624 Mar 20	06:41	0°♉		
	10624 Apr 13	16:07	0°♊		
	10624 May 08	06:38	0°♋		
asc. node	10624 May 15	07:19	8°♋28'49		
	10624 Jun 02	09:10	0°♌		
	10624 Jun 28	13:35	0°♍		
evening max el	10624 Jul 19	05:28	21°♍53'47	46°35'33	
	10624 Jul 27	14:23	0°♎		
greatest brilliancy	10624 Aug 27	06:59	21°♎52'29	-4.8m	
desc. node	10624 Sep 04	06:09	23°♎57'49		
retrograde	10624 Sep 07	09:32	24°♎09'29		
evening set	10624 Sep 22	23:56	19°♎24'47		
min. Earth dist.	10624 Sep 27	20:51	16°♎30'09	0.28282 AU	
inferior conj	10624 Sep 28	16:58	15°♎58'56	-5°36'32	
minimum elong	10624 Sep 28	06:53	16°♎14'35	5°34'03	
morning rise	10624 Oct 03	14:22	13°♎01'51		
direct	10624 Oct 19	20:51	7°♎58'01		
greatest brilliancy	10624 Oct 29	12:17	9°♎39'16	-4.7m	
	10624 Nov 29	04:32	0°♏		
morning max el	10624 Dec 07	15:50	7°♏49'57	45°42'12	
asc. node	10624 Dec 26	05:51	26°♏42'47		
	10624 Dec 29	07:37	0°♐		
	10625 Jan 25	03:26	0°♑		
	10625 Feb 19	16:04	0°♒		
	10625 Mar 16	12:27	0°♓		
	10625 Apr 09	23:01	0°♈		
desc. node	10625 Apr 16	23:42	8°♈41'48		
	10625 May 04	02:59	0°♉		
	10625 May 28	02:43	0°♊		
morning set	10625 Jun 08	12:51	14°♊19'32		
	10625 Jun 21	00:31	0°♋		
	10625 Jul 14	22:33	0°♌		
superior conj	10625 Jul 18	09:52	4°♌20'55	-0°47'00	
minimum elong	10625 Jul 18	20:10	4°♌53'10	0°47'03	
max. Earth dist.	10625 Jul 20	21:26	7°♌27'22	1.71653 AU	
asc. node	10625 Aug 07	17:28	29°♌44'39		
	10625 Aug 07	22:23	0°♍		
evening rise	10625 Aug 26	17:42	23°♍25'08		
	10625 Sep 01	00:53	0°♎		
	10625 Sep 25	06:57	0°♏		
	10625 Oct 19	18:03	0°♐		
	10625 Nov 13	12:30	0°♑		
desc. node	10625 Nov 27	12:13	16°♑43'59		
	10625 Dec 08	17:06	0°♒		
	10626 Jan 03	11:52	0°♓		
	10626 Jan 30	06:38	0°♈		
evening max el	10626 Feb 21	17:43	23°♈24'51	46°22'31	
	10626 Feb 28	14:28	0°♉		
asc. node	10626 Mar 20	12:11	16°♉21'32		
greatest brilliancy	10626 Apr 02	18:56	23°♉22'13	-4.9m	
retrograde	10626 Apr 12	14:29	25°♉10'11		
evening set	10626 Apr 29	18:16	19°♉28'34		
inferior conj	10626 May 03	06:08	17°♉20'53	8°40'19	

minimum elong	10626 May 02 22:51	17°♉32'07	8°39'10
min. Earth dist.	10626 May 03 05:01	17°♉22'37	0.27267 AU
morning rise	10626 May 06 03:27	15°♉34'57	
direct	10626 May 24 00:53	9°♉28'35	
greatest brilliancy	10626 Jun 02 17:40	11°♉15'58	-4.9m
	10626 Jun 30 14:56	0°♊	
desc. node	10626 Jul 10 10:41	9°♊14'52	
morning max el	10626 Jul 13 12:50	12°♊19'00	46°54'29
	10626 Jul 30 08:57	0°♋	
	10626 Aug 26 00:04	0°♌	
	10626 Sep 20 14:45	0°♍	
	10626 Oct 15 18:13	0°♎	
asc. node	10626 Oct 31 07:05	18°♎43'11	
	10626 Nov 09 14:36	0°♏	
	10626 Dec 04 05:29	0°♐	
	10626 Dec 28 16:14	0°♑	
morning set	10627 Jan 10 10:00	15°♑41'46	
	10627 Jan 22 00:10	0°♒	
max. Earth dist.	10627 Feb 14 16:05	29°♒16'51	1.72603 AU
	10627 Feb 15 06:01	0°♓	
superior conj	10627 Feb 17 03:10	2°♓19'53	0°06'53
minimum elong	10627 Feb 17 04:51	2°♓25'06	0°07'06
behind sun begin	10627 Feb 16 07:00	1°♓17'23	
behind sun end	10627 Feb 18 02:41	3°♓32'48	
desc. node	10627 Feb 19 23:05	5°♓50'25	
	10627 Mar 11 09:51	0°♈	
evening rise	10627 Mar 28 01:59	20°♈45'48	
	10627 Apr 04 11:39	0°♉	
	10627 Apr 28 12:10	0°♊	
	10627 May 22 13:16	0°♋	
asc. node	10627 Jun 12 18:44	26°♋20'30	
	10627 Jun 15 17:50	0°♌	
	10627 Jul 10 05:28	0°♍	
	10627 Aug 04 05:33	0°♎	
	10627 Aug 30 05:05	0°♏	
	10627 Sep 27 10:34	0°♐	
evening max el	10627 Sep 29 05:35	1°♐45'28	45°57'49
desc. node	10627 Oct 02 16:32	5°♐04'41	
	10627 Nov 06 04:35	0°♑	
greatest brilliancy	10627 Nov 07 05:37	0°♑22'55	-4.7m
retrograde	10627 Nov 17 08:20	2°♑13'49	
	10627 Nov 27 23:29	30°℞♐	
evening set	10627 Dec 05 11:35	26°♐03'57	
inferior conj	10627 Dec 08 20:30	23°♐57'53	-8°19'42
minimum elong	10627 Dec 09 02:15	23°♐48'50	8°18'40
min. Earth dist.	10627 Dec 09 02:20	23°♐48'41	0.29052 AU
morning rise	10627 Dec 12 16:54	21°♐34'33	
direct	10627 Dec 30 08:41	15°♐41'25	
greatest brilliancy	10628 Jan 09 23:41	17°♐44'55	-4.8m
asc. node	10628 Jan 23 16:53	25°♐13'22	
	10628 Jan 30 03:06	0°♑	
morning max el	10628 Feb 17 17:16	16°♑41'49	46°01'09
	10628 Mar 01 17:01	0°♒	
	10628 Mar 28 16:27	0°♓	
	10628 Apr 23 03:56	0°♈	
desc. node	10628 May 14 12:43	25°♈51'39	
	10628 May 17 21:57	0°♉	
	10628 Jun 11 06:18	0°♊	
	10628 Jul 05 09:45	0°♋	
	10628 Jul 29 11:40	0°♌	
morning set	10628 Aug 21 05:01	28°♌17'10	
	10628 Aug 22 14:05	0°♍	
asc. node	10628 Sep 04 06:31	15°♍45'43	
	10628 Sep 15 17:46	0°♎	
superior conj	10628 Sep 28 11:57	15°♎49'02	0°54'23
minimum elong	10628 Sep 28 02:17	15°♎19'03	0°54'06
max. Earth dist.	10628 Sep 30 14:21	18°♎25'05	1.72747 AU
	10628 Oct 09 22:51	0°♏	
	10628 Nov 03 05:43	0°♐	
evening rise	10628 Nov 04 09:18	1°♐25'01	
	10628 Nov 27 15:18	0°♑	
	10628 Dec 22 04:30	0°♒	
desc. node	10628 Dec 24 23:50	3°♒24'53	
	10629 Jan 15 21:42	0°♓	
	10629 Feb 09 19:11	0°♈	
	10629 Mar 06 23:02	0°♉	
	10629 Apr 01 16:47	0°♊	
asc. node	10629 Apr 16 22:33	17°♊07'05	
	10629 Apr 28 22:24	0°♋	
evening max el	10629 May 05 17:40	6°♋58'48	46°52'32
	10629 May 31 22:02	0°♌	
greatest brilliancy	10629 Jun 15 03:47	7°♌49'08	-4.9m
retrograde	10629 Jun 25 02:52	9°♌41'27	
evening set	10629 Jul 10 23:59	4°♌47'43	
inferior conj	10629 Jul 15 21:27	1°♌52'08	5°20'38
minimum elong	10629 Jul 16 07:51	1°♌36'10	5°17'24
min. Earth dist.	10629 Jul 16 00:59	1°♌46'43	0.27118 AU
	10629 Jul 18 23:14	30°℞♋	
morning rise	10629 Jul 21 15:49	28°♋27'35	
direct	10629 Aug 05 14:33	24°♋05'26	
desc. node	10629 Aug 06 21:30	24°♋07'23	
greatest brilliancy	10629 Aug 15 13:39	25°♋55'21	-4.8m
	10629 Aug 24 04:47	0°♌	
morning max el	10629 Sep 24 04:26	25°♌16'01	46°13'15
	10629 Sep 28 23:17	0°♍	
	10629 Oct 27 04:20	0°♎	
	10629 Nov 22 13:25	0°♏	
asc. node	10629 Nov 27 19:50	6°♏08'06	
	10629 Dec 18 00:57	0°♐	
	10630 Jan 11 23:18	0°♑	
	10630 Feb 05 13:11	0°♒	
	10630 Mar 01 21:26	0°♓	
desc. node	10630 Mar 19 12:21	21°♓51'14	
morning set	10630 Mar 22 11:43	25°♓33'11	
	10630 Mar 26 01:26	0°♈	
	10630 Apr 19 01:54	0°♉	
max. Earth dist.	10630 Apr 29 07:13	12°♉48'46	1.71469 AU
superior conj	10630 May 01 17:01	15°♉50'04	-1°21'48
minimum elong	10630 May 01 08:55	15°♉24'39	1°22'01
	10630 May 12 23:50	0°♊	
	10630 Jun 05 21:00	0°♋	
evening rise	10630 Jun 11 00:47	6°♋28'22	
	10630 Jun 29 19:29	0°♌	
asc. node	10630 Jul 10 06:42	13°♌04'13	
	10630 Jul 23 21:15	0°♍	
	10630 Aug 17 04:09	0°♎	
	10630 Sep 10 18:51	0°♏	
	10630 Oct 05 22:14	0°♐	
desc. node	10630 Oct 30 03:05	27°♐55'20	
	10630 Oct 31 23:24	0°♑	
	10630 Nov 28 19:20	0°♒	
evening max el	10630 Dec 09 07:42	10°♒25'25	45°49'47
	10631 Jan 01 08:16	0°♓	
greatest brilliancy	10631 Jan 17 12:43	8°♓46'32	-4.8m
retrograde	10631 Jan 27 05:43	10°♓30'19	
evening set	10631 Feb 11 02:11	6°♓12'25	
inferior conj	10631 Feb 17 07:03	2°♓31'36	-0°43'06
minimum elong	10631 Feb 17 08:41	2°♓29'04	0°42'18
min. Earth dist.	10631 Feb 17 19:05	2°♓12'55	0.27922 AU
asc. node	10631 Feb 20 03:45	0°♓45'42	
	10631 Feb 21 10:17	30°℞♒	

morning rise	10631 Feb 23 14:30	28°♒45'40	
direct	10631 Mar 10 09:27	24°♒25'17	
greatest brilliancy	10631 Mar 21 06:12	26°♒36'57	-4.8m
	10631 Mar 28 06:52	0°♓	
morning max el	10631 Apr 29 16:21	26°♓52'37	46°45'53
	10631 May 02 18:21	0°♈	
	10631 May 30 07:15	0°♉	
desc. node	10631 Jun 12 01:07	14°♉43'46	
	10631 Jun 24 23:30	0°♊	
	10631 Jul 19 21:23	0°♋	
	10631 Aug 13 11:26	0°♌	
	10631 Sep 06 22:29	0°♍	
	10631 Oct 01 08:17	0°♎	
asc. node	10631 Oct 02 19:56	1°♎49'40	
	10631 Oct 25 17:02	0°♏	
morning set	10631 Oct 31 12:12	7°♏08'47	
	10631 Nov 19 00:53	0°♐	
superior conj	10631 Dec 07 04:54	22°♐24'49	1°23'00
minimum elong	10631 Dec 07 09:50	22°♐40'04	1°23'28
max. Earth dist.	10631 Dec 07 09:49	22°♐40'00	1.73232 AU
	10631 Dec 13 08:28	0°♑	
	10632 Jan 06 16:29	0°♒	
evening rise	10632 Jan 13 10:50	8°♒20'06	
desc. node	10632 Jan 22 12:05	19°♒29'05	
	10632 Jan 31 01:01	0°♓	
	10632 Feb 24 09:34	0°♈	
	10632 Mar 19 18:01	0°♉	
	10632 Apr 13 03:56	0°♊	
	10632 May 07 19:13	0°♋	
asc. node	10632 May 14 09:18	7°♋56'12	
	10632 Jun 01 23:05	0°♌	
	10632 Jun 28 06:23	0°♍	
evening max el	10632 Jul 16 21:23	19°♍39'18	46°36'47
	10632 Jul 27 16:45	0°♎	
greatest brilliancy	10632 Aug 24 21:52	19°♎36'56	-4.8m
desc. node	10632 Sep 03 08:11	21°♎51'02	
retrograde	10632 Sep 05 01:33	21°♎54'34	
evening set	10632 Sep 20 12:37	17°♎13'40	
min. Earth dist.	10632 Sep 25 11:28	14°♎16'17	0.28230 AU
inferior conj	10632 Sep 26 07:57	13°♎44'32	-5°19'56
minimum elong	10632 Sep 25 22:04	13°♎59'51	5°17'26
morning rise	10632 Oct 01 08:09	10°♎43'47	
direct	10632 Oct 17 11:58	5°♎44'28	
greatest brilliancy	10632 Oct 27 01:58	7°♎24'54	-4.8m
	10632 Nov 29 06:33	0°♏	
morning max el	10632 Dec 05 07:19	5°♏38'27	45°42'21
asc. node	10632 Dec 25 07:43	26°♏02'26	
	10632 Dec 29 00:02	0°♐	
	10633 Jan 24 16:57	0°♑	
	10633 Feb 19 04:18	0°♒	
	10633 Mar 16 00:02	0°♓	
	10633 Apr 09 10:14	0°♈	
desc. node	10633 Apr 16 01:37	8°♈13'09	
	10633 May 03 14:00	0°♉	
	10633 May 27 13:35	0°♊	
morning set	10633 Jun 06 00:20	11°♊51'05	
	10633 Jun 20 11:17	0°♋	
	10633 Jul 14 09:15	0°♌	
superior conj	10633 Jul 15 22:27	1°♌56'30	-0°50'11
minimum elong	10633 Jul 16 09:10	2°♌30'06	0°50'13
max. Earth dist.	10633 Jul 18 11:17	5°♌07'03	1.71617 AU
asc. node	10633 Aug 06 19:22	29°♌17'24	
	10633 Aug 07 09:02	0°♍	
evening rise	10633 Aug 24 08:33	21°♍08'57	
	10633 Aug 31 11:34	0°♎	
	10633 Sep 24 17:46	0°♏	
	10633 Oct 19 05:10	0°♐	
	10633 Nov 13 00:06	0°♑	
desc. node	10633 Nov 26 14:03	16°♑13'46	
	10633 Dec 08 05:32	0°♒	
	10634 Jan 03 01:50	0°♓	
	10634 Jan 29 23:48	0°♈	
evening max el	10634 Feb 19 07:54	21°♈05'10	46°21'02
	10634 Feb 28 17:32	0°♉	
asc. node	10634 Mar 19 14:15	14°♉58'57	
greatest brilliancy	10634 Mar 31 07:58	20°♉58'11	-4.9m
retrograde	10634 Apr 10 03:04	22°♉45'33	
evening set	10634 Apr 27 02:58	17°♉10'45	
inferior conj	10634 Apr 30 19:12	14°♉56'24	8°31'42
minimum elong	10634 Apr 30 11:13	15°♉08'45	8°30'22
min. Earth dist.	10634 Apr 30 17:57	14°♉58'20	0.27273 AU
morning rise	10634 May 03 19:28	13°♉05'49	
direct	10634 May 21 14:06	7°♉03'59	
greatest brilliancy	10634 May 31 07:11	8°♉51'14	-4.9m
	10634 Jun 30 19:51	0°♊	
desc. node	10634 Jul 09 12:34	8°♊20'59	
morning max el	10634 Jul 11 01:31	9°♊53'19	46°55'20
	10634 Jul 30 02:45	0°♋	
	10634 Aug 25 14:28	0°♌	
	10634 Sep 20 03:31	0°♍	
	10634 Oct 15 06:03	0°♎	
asc. node	10634 Oct 30 09:00	18°♎14'14	
	10634 Nov 09 01:53	0°♏	
	10634 Dec 03 16:27	0°♐	
	10634 Dec 28 03:02	0°♑	
morning set	10635 Jan 08 02:45	13°♑32'17	
	10635 Jan 21 10:54	0°♒	
max. Earth dist.	10635 Feb 12 06:31	26°♒59'35	1.72641 AU
superior conj	10635 Feb 14 17:51	0°♓03'20	0°10'25
minimum elong	10635 Feb 14 20:21	0°♓11'05	0°10'37
behind sun begin	10635 Feb 14 02:06	29°♒14'33	
behind sun end	10635 Feb 15 14:35	1°♓07'36	
	10635 Feb 14 16:46	0°♓	
desc. node	10635 Feb 19 01:03	5°♓23'09	
	10635 Mar 10 20:42	0°♈	
evening rise	10635 Mar 25 15:17	18°♈23'34	
	10635 Apr 03 22:38	0°♉	
	10635 Apr 27 23:20	0°♊	
	10635 May 22 00:41	0°♋	
asc. node	10635 Jun 11 20:34	25°♋50'02	
	10635 Jun 15 05:36	0°♌	
	10635 Jul 09 17:47	0°♍	
	10635 Aug 03 18:53	0°♎	
	10635 Aug 29 20:33	0°♏	
evening max el	10635 Sep 26 19:53	29°♏30'00	45°58'50
	10635 Sep 27 08:13	0°♐	
desc. node	10635 Oct 01 18:35	4°♐13'45	
greatest brilliancy	10635 Nov 04 21:17	28°♐12'59	-4.7m
	10635 Nov 13 01:48	0°♑	
retrograde	10635 Nov 14 23:50	0°♑04'14	
	10635 Nov 16 21:27	30°℞♐	
evening set	10635 Dec 03 05:17	23°♐51'50	
inferior conj	10635 Dec 06 12:47	21°♐48'00	-8°25'06
minimum elong	10635 Dec 06 17:51	21°♐40'01	8°24'10
min. Earth dist.	10635 Dec 06 17:55	21°♐39'54	0.29067 AU
morning rise	10635 Dec 10 06:22	19°♐28'45	
direct	10635 Dec 28 00:26	13°♐31'28	
greatest brilliancy	10636 Jan 07 15:34	15°♐34'27	-4.8m
asc. node	10636 Jan 22 18:57	24°♐02'03	
	10636 Jan 30 11:58	0°♑	
morning max el	10636 Feb 15 07:48	14°♑25'43	45°59'45

	10636 Mar 01 10:58	0°♒	
	10636 Mar 28 06:51	0°♓	
	10636 Apr 22 16:51	0°♈	
desc. node	10636 May 13 14:37	25°♈20'05	
	10636 May 17 10:05	0°♉	
	10636 Jun 10 17:58	0°♊	
	10636 Jul 04 21:06	0°♋	
	10636 Jul 28 22:48	0°♌	
morning set	10636 Aug 18 19:21	25°♌58'21	
	10636 Aug 22 01:03	0°♍	
asc. node	10636 Sep 03 08:31	15°♍18'08	
	10636 Sep 15 04:36	0°♎	
superior conj	10636 Sep 26 04:02	13°♎36'46	0°51'41
minimum elong	10636 Sep 25 18:31	13°♎07'17	0°51'23
max. Earth dist.	10636 Sep 28 05:20	16°♎09'31	1.72711 AU
	10636 Oct 09 09:36	0°♏	
evening rise	10636 Nov 02 02:27	29°♏16'44	
	10636 Nov 02 16:29	0°♐	
	10636 Nov 27 02:13	0°♑	
	10636 Dec 21 15:43	0°♒	
desc. node	10636 Dec 24 01:44	2°♒56'24	
	10637 Jan 15 09:26	0°♓	
	10637 Feb 09 07:39	0°♈	
	10637 Mar 06 12:40	0°♉	
	10637 Apr 01 08:33	0°♊	
asc. node	10637 Apr 16 00:31	16°♊23'12	
	10637 Apr 28 19:20	0°♋	
evening max el	10637 May 03 06:03	4°♋31'48	46°52'14
	10637 Jun 02 01:42	0°♌	
greatest brilliancy	10637 Jun 12 18:08	5°♌25'03	-4.9m
retrograde	10637 Jun 22 16:05	7°♌16'43	
evening set	10637 Jul 08 16:17	2°♌18'06	
	10637 Jul 12 13:16	30°℞♋	
inferior conj	10637 Jul 13 10:26	29°♋27'34	5°40'05
minimum elong	10637 Jul 13 21:10	29°♋11'07	5°36'49
min. Earth dist.	10637 Jul 13 14:51	29°♋20'48	0.27112 AU
morning rise	10637 Jul 19 02:05	26°♋06'53	
direct	10637 Aug 03 02:56	21°♋40'30	
desc. node	10637 Aug 05 23:36	21°♋50'06	
greatest brilliancy	10637 Aug 13 03:04	23°♋31'31	-4.8m
	10637 Aug 25 14:31	0°♌	
morning max el	10637 Sep 21 18:49	22°♌57'09	46°15'01
	10637 Sep 28 20:29	0°♍	
	10637 Oct 26 19:54	0°♎	
	10637 Nov 22 02:41	0°♏	
asc. node	10637 Nov 26 21:39	5°♏35'28	
	10637 Dec 17 13:03	0°♐	
	10638 Jan 11 10:47	0°♑	
	10638 Feb 05 00:22	0°♒	
	10638 Mar 01 08:29	0°♓	
desc. node	10638 Mar 18 14:16	21°♓22'59	
morning set	10638 Mar 20 00:36	23°♓09'40	
	10638 Mar 25 12:27	0°♈	
	10638 Apr 18 12:55	0°♉	
max. Earth dist.	10638 Apr 26 17:54	10°♉17'08	1.71499 AU
superior conj	10638 Apr 29 04:33	13°♉21'04	-1°20'19
minimum elong	10638 Apr 28 19:43	12°♉53'20	1°20'28
	10638 May 12 10:53	0°♊	
	10638 Jun 05 08:05	0°♋	
evening rise	10638 Jun 08 11:36	3°♋56'56	
	10638 Jun 29 06:39	0°♌	
asc. node	10638 Jul 09 08:39	12°♌35'21	
	10638 Jul 23 08:34	0°♍	
	10638 Aug 16 15:44	0°♎	
	10638 Sep 10 06:54	0°♏	
	10638 Oct 05 11:11	0°♐	
desc. node	10638 Oct 29 04:58	27°♐19'29	
	10638 Oct 31 14:13	0°♑	
	10638 Nov 28 14:52	0°♒	
evening max el	10638 Dec 06 23:22	8°♒13'40	45°49'28
	10639 Jan 02 06:19	0°♓	
greatest brilliancy	10639 Jan 15 02:40	6°♓30'36	-4.8m
retrograde	10639 Jan 24 20:41	8°♓14'47	
evening set	10639 Feb 08 18:16	3°♓54'48	
inferior conj	10639 Feb 14 21:54	0°♓15'18	-1°04'58
minimum elong	10639 Feb 15 00:21	0°♓11'30	1°03'53
	10639 Feb 15 07:45	30°℞♒	
min. Earth dist.	10639 Feb 15 10:11	29°♒56'14	0.27967 AU
asc. node	10639 Feb 19 05:45	27°♒36'58	
morning rise	10639 Feb 21 05:51	26°♒28'49	
direct	10639 Mar 08 01:20	22°♒08'28	
greatest brilliancy	10639 Mar 18 21:43	24°♒20'15	-4.8m
	10639 Mar 29 15:39	0°♓	
morning max el	10639 Apr 27 08:18	24°♓36'39	46°44'25
	10639 May 02 15:11	0°♈	
	10639 May 29 22:56	0°♉	
desc. node	10639 Jun 11 03:00	14°♉06'38	
	10639 Jun 24 13:10	0°♊	
	10639 Jul 19 09:59	0°♋	
	10639 Aug 12 23:22	0°♌	
	10639 Sep 06 09:57	0°♍	
	10639 Sep 30 19:24	0°♎	
asc. node	10639 Oct 01 21:45	1°♎21'03	
	10639 Oct 25 03:56	0°♏	
morning set	10639 Oct 29 04:51	4°♏58'40	
	10639 Nov 18 11:40	0°♐	
superior conj	10639 Dec 04 22:13	20°♐16'59	1°23'49
minimum elong	10639 Dec 05 02:30	20°♐30'12	1°24'18
max. Earth dist.	10639 Dec 05 06:52	20°♐43'38	1.73229 AU
	10639 Dec 12 19:14	0°♑	
	10640 Jan 06 03:19	0°♒	
evening rise	10640 Jan 11 03:06	6°♒08'57	
desc. node	10640 Jan 21 14:07	19°♒01'46	
	10640 Jan 30 12:00	0°♓	
	10640 Feb 23 20:47	0°♈	
	10640 Mar 19 05:38	0°♉	
	10640 Apr 12 16:06	0°♊	
	10640 May 07 08:14	0°♋	
asc. node	10640 May 13 11:08	7°♋21'48	
	10640 Jun 01 13:34	0°♌	
	10640 Jun 28 00:02	0°♍	
evening max el	10640 Jul 14 13:28	17°♍23'44	46°38'02
	10640 Jul 27 21:23	0°♎	
greatest brilliancy	10640 Aug 22 13:24	17°♎20'49	-4.8m
desc. node	10640 Sep 02 10:10	19°♎38'02	
retrograde	10640 Sep 02 17:12	19°♎38'09	
evening set	10640 Sep 18 01:26	15°♎01'12	
min. Earth dist.	10640 Sep 23 02:17	12°♎00'52	0.28171 AU
inferior conj	10640 Sep 23 22:51	11°♎28'58	-5°02'45
minimum elong	10640 Sep 23 13:14	11°♎43'53	5°00'16
morning rise	10640 Sep 29 01:44	8°♎24'29	
direct	10640 Oct 15 02:57	3°♎29'59	
greatest brilliancy	10640 Oct 24 15:35	5°♎09'24	-4.8m
	10640 Nov 29 07:29	0°♏	
morning max el	10640 Dec 02 22:06	3°♏24'39	45°42'36
asc. node	10640 Dec 24 09:43	25°♏22'20	
	10640 Dec 28 16:19	0°♐	
	10641 Jan 24 06:30	0°♑	
	10641 Feb 18 16:37	0°♒	
	10641 Mar 15 11:41	0°♓	
	10641 Apr 08 21:31	0°♈	

desc. node	10641 Apr 15 03:29	7°♈44'04	
	10641 May 03 01:06	0°♉	
	10641 May 27 00:37	0°♊	
morning set	10641 Jun 03 11:44	9°♊21'45	
	10641 Jun 19 22:16	0°♋	
superior conj	10641 Jul 13 10:39	29°♋30'10	-0°53'17
minimum elong	10641 Jul 13 21:43	0°♌04'49	0°53'20
	10641 Jul 13 20:11	0°♌	
max. Earth dist.	10641 Jul 15 22:51	2°♌38'42	1.71584 AU
asc. node	10641 Aug 05 21:22	28°♌49'38	
	10641 Aug 06 19:55	0°♍	
evening rise	10641 Aug 21 22:45	18°♍49'59	
	10641 Aug 30 22:29	0°♎	
	10641 Sep 24 04:48	0°♏	
	10641 Oct 18 16:27	0°♐	
	10641 Nov 12 11:51	0°♑	
desc. node	10641 Nov 25 16:01	15°♑43'30	
	10641 Dec 07 18:09	0°♒	
	10642 Jan 02 16:01	0°♓	
	10642 Jan 29 17:20	0°♈	
evening max el	10642 Feb 16 21:30	18°♈44'18	46°19'38
	10642 Feb 28 22:13	0°♉	
asc. node	10642 Mar 18 16:11	13°♉33'53	
greatest brilliancy	10642 Mar 28 21:31	18°♉35'34	-4.8m
retrograde	10642 Apr 07 15:39	20°♉22'16	
evening set	10642 Apr 24 11:54	14°♉54'12	
inferior conj	10642 Apr 28 08:35	12°♉33'16	8°22'05
minimum elong	10642 Apr 27 23:59	12°♉46'36	8°20'35
min. Earth dist.	10642 Apr 28 07:29	12°♉34'59	0.27282 AU
morning rise	10642 May 01 11:59	10°♉37'47	
direct	10642 May 19 03:08	4°♉40'30	
greatest brilliancy	10642 May 28 21:34	6°♉28'27	-4.9m
	10642 Jun 30 22:52	0°♊	
morning max el	10642 Jul 08 14:02	7°♊27'15	46°55'55
desc. node	10642 Jul 08 14:42	7°♊28'56	
	10642 Jul 29 20:10	0°♋	
	10642 Aug 25 04:47	0°♌	
	10642 Sep 19 16:19	0°♍	
	10642 Oct 14 17:56	0°♎	
asc. node	10642 Oct 29 10:53	17°♎45'07	
	10642 Nov 08 13:11	0°♏	
	10642 Dec 03 03:23	0°♐	
	10642 Dec 27 13:45	0°♑	
morning set	10643 Jan 05 19:30	11°♑23'03	
	10643 Jan 20 21:32	0°♒	
max. Earth dist.	10643 Feb 09 22:22	24°♒46'59	1.72679 AU
superior conj	10643 Feb 12 08:48	27°♒47'59	0°13'55
minimum elong	10643 Feb 12 12:06	27°♒58'10	0°14'05
behind sun begin	10643 Feb 12 00:30	27°♒22'16	
behind sun end	10643 Feb 12 23:41	28°♒34'05	
	10643 Feb 14 03:26	0°♓	
desc. node	10643 Feb 18 02:59	4°♓56'04	
	10643 Mar 10 07:27	0°♈	
evening rise	10643 Mar 23 05:04	16°♈03'20	
	10643 Apr 03 09:30	0°♉	
	10643 Apr 27 10:20	0°♊	
	10643 May 21 11:55	0°♋	
asc. node	10643 Jun 10 22:36	25°♋20'41	
	10643 Jun 14 17:12	0°♌	
	10643 Jul 09 06:00	0°♍	
	10643 Aug 03 08:13	0°♎	
	10643 Aug 29 12:13	0°♏	
evening max el	10643 Sep 24 10:07	27°♏14'19	45°59'53
	10643 Sep 27 06:45	0°♐	
desc. node	10643 Sep 30 20:30	3°♐21'27	
greatest brilliancy	10643 Nov 02 12:23	26°♐02'16	-4.7m
retrograde	10643 Nov 12 15:39	27°♐54'42	
evening set	10643 Nov 30 22:36	21°♐39'59	
inferior conj	10643 Dec 04 04:57	19°♐38'06	-8°29'42
minimum elong	10643 Dec 04 09:19	19°♐31'14	8°28'53
min. Earth dist.	10643 Dec 04 09:16	19°♐31'19	0.29078 AU
morning rise	10643 Dec 07 19:58	17°♐22'50	
direct	10643 Dec 25 16:00	11°♐21'29	
greatest brilliancy	10644 Jan 05 07:26	13°♐24'26	-4.7m
asc. node	10644 Jan 21 21:00	22°♐53'08	
	10644 Jan 30 18:05	0°♑	
morning max el	10644 Feb 12 22:58	12°♑11'56	45°58'30
	10644 Mar 01 04:13	0°♒	
	10644 Mar 27 20:50	0°♓	
	10644 Apr 22 05:25	0°♈	
desc. node	10644 May 12 16:29	24°♈49'26	
	10644 May 16 21:54	0°♉	
	10644 Jun 10 05:18	0°♊	
	10644 Jul 04 08:07	0°♋	
	10644 Jul 28 09:35	0°♌	
morning set	10644 Aug 16 09:48	23°♌40'45	
	10644 Aug 21 11:41	0°♍	
asc. node	10644 Sep 02 10:20	14°♍50'55	
	10644 Sep 14 15:09	0°♎	
superior conj	10644 Sep 23 19:58	11°♎24'47	0°48'54
minimum elong	10644 Sep 23 10:41	10°♎56'01	0°48'35
max. Earth dist.	10644 Sep 25 20:20	13°♎54'42	1.72682 AU
	10644 Oct 08 20:08	0°♏	
evening rise	10644 Oct 30 19:26	27°♏08'37	
	10644 Nov 02 03:03	0°♐	
	10644 Nov 26 12:55	0°♑	
	10644 Dec 21 02:43	0°♒	
desc. node	10644 Dec 23 03:44	2°♒28'59	
	10645 Jan 14 20:54	0°♓	
	10645 Feb 08 19:51	0°♈	
	10645 Mar 06 02:03	0°♉	
	10645 Apr 01 00:09	0°♊	
asc. node	10645 Apr 15 02:27	15°♊39'50	
	10645 Apr 28 16:32	0°♋	
evening max el	10645 Apr 30 19:40	2°♋09'17	46°51'58
	10645 Jun 03 16:06	0°♌	
greatest brilliancy	10645 Jun 10 08:02	3°♌02'08	-4.9m
retrograde	10645 Jun 20 05:55	4°♌53'51	
evening set	10645 Jul 06 08:50	29°♋50'14	
	10645 Jul 06 01:57	30°℞♋	
inferior conj	10645 Jul 10 23:35	27°♋04'45	5°58'41
minimum elong	10645 Jul 11 10:34	26°♋47'57	5°55'28
min. Earth dist.	10645 Jul 11 04:27	26°♋57'19	0.27106 AU
morning rise	10645 Jul 16 12:19	23°♋48'25	
direct	10645 Jul 31 16:06	19°♋17'33	
desc. node	10645 Aug 05 01:32	19°♋40'06	
greatest brilliancy	10645 Aug 10 16:01	21°♋08'59	-4.8m
	10645 Aug 26 13:46	0°♌	
morning max el	10645 Sep 19 09:56	20°♌41'36	46°16'36
	10645 Sep 28 16:24	0°♍	
	10645 Oct 26 10:46	0°♎	
	10645 Nov 21 15:29	0°♏	
asc. node	10645 Nov 25 23:40	5°♏04'32	
	10645 Dec 17 00:48	0°♐	
	10646 Jan 10 21:57	0°♑	
	10646 Feb 04 11:12	0°♒	
	10646 Feb 28 19:10	0°♓	
morning set	10646 Mar 17 13:37	20°♓47'58	
desc. node	10646 Mar 17 16:04	20°♓55'33	
	10646 Mar 24 23:04	0°♈	
	10646 Apr 17 23:32	0°♉	

max. Earth dist.	10646 Apr 24	04:59	7°♉48'05	1.71527 AU	
superior conj	10646 Apr 26	16:12	10°♉53'43	-1°18'39	
minimum elong	10646 Apr 26	06:43	10°♉23'59	1°18'47	
	10646 May 11	21:31	0°♊		
	10646 Jun 04	18:47	0°♋		
evening rise	10646 Jun 05	22:35	1°♋27'15		
	10646 Jun 28	17:27	0°♌		
asc. node	10646 Jul 08	10:38	12°♌07'48		
	10646 Jul 22	19:29	0°♍		
	10646 Aug 16	02:53	0°♎		
	10646 Sep 09	18:33	0°♏		
	10646 Oct 04	23:47	0°♐		
desc. node	10646 Oct 28	06:57	26°♐44'47		
	10646 Oct 31	04:49	0°♑		
	10646 Nov 28	10:39	0°♒		
evening max el	10646 Dec 04	15:22	6°♒03'39	45°48'57	
	10647 Jan 03	12:23	0°♓		
greatest brilliancy	10647 Jan 12	17:00	4°♓15'52	-4.8m	
retrograde	10647 Jan 22	11:16	5°♓59'48		
evening set	10647 Feb 06	10:29	1°♓37'52		
	10647 Feb 09	06:28	30°♓♒		
inferior conj	10647 Feb 12	12:41	27°♒59'49	-1°26'43	
minimum elong	10647 Feb 12	15:56	27°♒54'45	1°25'22	
min. Earth dist.	10647 Feb 13	01:17	27°♒40'12	0.28009 AU	
asc. node	10647 Feb 18	07:41	24°♒31'03		
morning rise	10647 Feb 18	20:52	24°♒12'53		
direct	10647 Mar 05	17:09	19°♒52'41		
greatest brilliancy	10647 Mar 16	13:00	22°♒04'08	-4.8m	
	10647 Mar 30	14:34	0°♓		
morning max el	10647 Apr 24	23:17	22°♓19'29	46°42'59	
	10647 May 02	10:52	0°♈		
	10647 May 29	13:56	0°♉		
desc. node	10647 Jun 10	05:05	13°♉31'45		
	10647 Jun 24	02:16	0°♊		
	10647 Jul 18	22:05	0°♋		
	10647 Aug 12	10:50	0°♌		
	10647 Sep 05	20:58	0°♍		
	10647 Sep 30	06:05	0°♎		
asc. node	10647 Sep 30	23:38	0°♎54'03		
	10647 Oct 24	14:23	0°♏		
morning set	10647 Oct 26	21:42	2°♏50'29		
	10647 Nov 17	22:02	0°♐		
superior conj	10647 Dec 02	15:41	18°♐10'48	1°24'30	
minimum elong	10647 Dec 02	19:17	18°♐21'56	1°25'01	
max. Earth dist.	10647 Dec 03	03:00	18°♐45'45	1.73229 AU	
	10647 Dec 12	05:37	0°♑		
	10648 Jan 05	13:49	0°♒		
evening rise	10648 Jan 08	19:16	3°♒58'31		
desc. node	10648 Jan 20	16:02	18°♒35'02		
	10648 Jan 29	22:41	0°♓		
	10648 Feb 23	07:44	0°♈		
	10648 Mar 18	16:57	0°♉		
	10648 Apr 12	03:58	0°♊		
	10648 May 06	20:57	0°♋		
asc. node	10648 May 12	13:13	6°♋49'05		
	10648 Jun 01	03:48	0°♌		
	10648 Jun 27	17:39	0°♍		
evening max el	10648 Jul 12	04:53	15°♍07'27	46°39'09	
	10648 Jul 28	03:32	0°♎		
greatest brilliancy	10648 Aug 20	05:32	15°♎06'19	-4.8m	
retrograde	10648 Aug 31	08:20	17°♎22'34		
desc. node	10648 Sep 01	12:09	17°♎20'57		
evening set	10648 Sep 15	14:24	12°♎49'28		
min. Earth dist.	10648 Sep 20	17:30	9°♎45'51	0.28111 AU	
inferior conj	10648 Sep 21	13:44	9°♎14'26	-4°45'00	
minimum elong	10648 Sep 21	04:27	9°♎28'52	4°42'33	
morning rise	10648 Sep 26	19:12	6°♎06'10		
direct	10648 Oct 12	17:32	1°♎16'29		
greatest brilliancy	10648 Oct 22	05:44	2°♎55'21	-4.8m	
	10648 Nov 29	06:45	0°♏		
morning max el	10648 Nov 30	11:51	1°♏09'26	45°42'56	
asc. node	10648 Dec 23	11:45	24°♏43'54		
	10648 Dec 28	07:55	0°♐		
	10649 Jan 23	19:37	0°♑		
	10649 Feb 18	04:36	0°♒		
	10649 Mar 14	23:05	0°♓		
	10649 Apr 08	08:36	0°♈		
desc. node	10649 Apr 14	05:27	7°♈16'02		
	10649 May 02	11:59	0°♉		
	10649 May 26	11:23	0°♊		
morning set	10649 May 31	22:48	6°♊52'16		
	10649 Jun 19	08:57	0°♋		
superior conj	10649 Jul 10	22:46	27°♋04'29	-0°56'17	
minimum elong	10649 Jul 11	10:06	27°♋39'58	0°56'22	
	10649 Jul 13	06:48	0°♌		
max. Earth dist.	10649 Jul 13	08:49	0°♌06'19	1.71551 AU	
asc. node	10649 Aug 04	23:10	28°♌22'08		
	10649 Aug 06	06:32	0°♍		
evening rise	10649 Aug 19	12:54	16°♍31'32		
	10649 Aug 30	09:09	0°♎		
	10649 Sep 23	15:36	0°♏		
	10649 Oct 18	03:30	0°♐		
	10649 Nov 11	23:23	0°♑		
desc. node	10649 Nov 24	18:05	15°♑14'15		
	10649 Dec 07	06:34	0°♒		
	10650 Jan 02	06:07	0°♓		
	10650 Jan 29	11:07	0°♈		
evening max el	10650 Feb 14	10:12	16°♈21'42	46°18'03	
	10650 Mar 01	04:57	0°♉		
asc. node	10650 Mar 17	18:10	12°♉05'46		
greatest brilliancy	10650 Mar 26	10:44	16°♉12'15	-4.8m	
retrograde	10650 Apr 05	04:06	17°♉58'43		
evening set	10650 Apr 21	20:30	12°♉37'03		
inferior conj	10650 Apr 25	21:46	10°♉09'39	8°11'25	
minimum elong	10650 Apr 25	12:33	10°♉23'54	8°09'46	
min. Earth dist.	10650 Apr 25	20:53	10°♉11'01	0.27292 AU	
morning rise	10650 Apr 29	04:31	8°♉09'08		
direct	10650 May 16	15:52	2°♉16'18		
greatest brilliancy	10650 May 26	12:09	4°♉05'39	-4.9m	
	10650 Jul 01	00:22	0°♊		
morning max el	10650 Jul 06	02:43	5°♊01'46	46°56'39	
desc. node	10650 Jul 07	16:38	6°♊37'31		
	10650 Jul 29	13:04	0°♋		
	10650 Aug 24	18:47	0°♌		
	10650 Sep 19	04:51	0°♍		
	10650 Oct 14	05:37	0°♎		
asc. node	10650 Oct 28	12:51	17°♎16'45		
	10650 Nov 08	00:20	0°♏		
	10650 Dec 02	14:12	0°♐		
	10650 Dec 27	00:22	0°♑		
morning set	10651 Jan 03	12:33	9°♑14'58		
	10651 Jan 20	08:05	0°♒		
max. Earth dist.	10651 Feb 07	16:50	22°♒42'52	1.72718 AU	
superior conj	10651 Feb 09	23:59	25°♒33'35	0°17'22	
minimum elong	10651 Feb 10	04:02	25°♒46'07	0°17'31	
	10651 Feb 13	14:00	0°♓		
desc. node	10651 Feb 17	04:48	4°♓28'54		
	10651 Mar 09	18:08	0°♈		
evening rise	10651 Mar 20	18:56	13°♈43'37		
	10651 Apr 02	20:22	0°♉		

	10651 Apr 26 21:24	0°♊	
	10651 May 20 23:14	0°♋	
asc. node	10651 Jun 10 00:32	24°♋50'47	
	10651 Jun 14 04:54	0°♌	
	10651 Jul 08 18:20	0°♍	
	10651 Aug 02 21:42	0°♎	
	10651 Aug 29 04:09	0°♏	
evening max el	10651 Sep 22 00:45	24°♏59'39	46°01'03
	10651 Sep 27 06:17	0°♐	
desc. node	10651 Sep 29 22:32	2°♐28'23	
greatest brilliancy	10651 Oct 31 02:52	23°♐50'52	-4.7m
retrograde	10651 Nov 10 07:55	25°♐45'10	
evening set	10651 Nov 28 15:38	19°♐28'23	
inferior conj	10651 Dec 01 21:05	17°♐28'03	-8°33'35
minimum elong	10651 Dec 02 00:43	17°♐22'21	8°32'52
min. Earth dist.	10651 Dec 02 00:13	17°♐23'09	0.29086 AU
morning rise	10651 Dec 05 09:47	15°♐16'33	
direct	10651 Dec 23 07:56	9°♐11'23	
greatest brilliancy	10652 Jan 02 22:57	11°♐14'07	-4.7m
asc. node	10652 Jan 20 22:50	21°♐45'39	
	10652 Jan 30 22:11	0°♑	
morning max el	10652 Feb 10 14:57	10°♑00'15	45°57'21
	10652 Feb 29 21:08	0°♒	
	10652 Mar 27 10:42	0°♓	
	10652 Apr 21 18:00	0°♈	
desc. node	10652 May 11 18:31	24°♈18'59	
	10652 May 16 09:47	0°♉	
	10652 Jun 09 16:47	0°♊	
	10652 Jul 03 19:19	0°♋	
	10652 Jul 27 20:34	0°♌	
morning set	10652 Aug 13 23:52	21°♌21'18	
	10652 Aug 20 22:31	0°♍	
asc. node	10652 Sep 01 12:14	14°♍23'26	
	10652 Sep 14 01:52	0°♎	
superior conj	10652 Sep 21 11:35	9°♎11'18	0°46'01
minimum elong	10652 Sep 21 02:35	8°♎43'25	0°45'40
max. Earth dist.	10652 Sep 23 13:21	11°♎45'35	1.72649 AU
	10652 Oct 08 06:47	0°♏	
evening rise	10652 Oct 28 12:25	25°♏00'06	
	10652 Nov 01 13:45	0°♐	
	10652 Nov 25 23:48	0°♑	
	10652 Dec 20 13:55	0°♒	
desc. node	10652 Dec 22 05:38	2°♒00'40	
	10653 Jan 14 08:35	0°♓	
	10653 Feb 08 08:16	0°♈	
	10653 Mar 05 15:42	0°♉	
	10653 Mar 31 16:10	0°♊	
asc. node	10653 Apr 14 04:31	14°♊55'40	
evening max el	10653 Apr 28 09:53	29°♊47'39	46°51'25
	10653 Apr 28 14:48	0°♋	
	10653 Jun 06 06:23	0°♌	
greatest brilliancy	10653 Jun 07 21:18	0°♌37'20	-4.9m
retrograde	10653 Jun 17 19:39	2°♌29'11	
	10653 Jun 28 20:46	30°℞♋	
evening set	10653 Jul 04 01:17	27°♋20'37	
inferior conj	10653 Jul 08 12:30	24°♋40'05	6°16'48
minimum elong	10653 Jul 08 23:37	24°♋23'04	6°13'39
min. Earth dist.	10653 Jul 08 17:31	24°♋32'25	0.27104 AU
morning rise	10653 Jul 13 22:03	21°♋28'25	
direct	10653 Jul 29 05:34	16°♋52'55	
desc. node	10653 Aug 04 03:29	17°♋33'32	
greatest brilliancy	10653 Aug 08 04:20	18°♋44'01	-4.8m
	10653 Aug 27 07:37	0°♌	
morning max el	10653 Sep 17 00:52	18°♌24'19	46°18'13
	10653 Sep 28 12:08	0°♍	
	10653 Oct 26 01:47	0°♎	
	10653 Nov 21 04:28	0°♏	
asc. node	10653 Nov 25 01:37	4°♏32'48	
	10653 Dec 16 12:44	0°♐	
	10654 Jan 10 09:19	0°♑	
	10654 Feb 03 22:17	0°♒	
	10654 Feb 28 06:07	0°♓	
morning set	10654 Mar 15 03:04	18°♓26'51	
desc. node	10654 Mar 16 18:04	20°♓28'01	
	10654 Mar 24 09:56	0°♈	
	10654 Apr 17 10:22	0°♉	
max. Earth dist.	10654 Apr 21 14:45	5°♉14'17	1.71555 AU
superior conj	10654 Apr 24 04:14	8°♉26'55	-1°16'52
minimum elong	10654 Apr 23 18:13	7°♉55'31	1°16'56
	10654 May 11 08:24	0°♊	
evening rise	10654 Jun 03 09:45	28°♊57'16	
	10654 Jun 04 05:45	0°♋	
	10654 Jun 28 04:32	0°♌	
asc. node	10654 Jul 07 12:27	11°♌38'47	
	10654 Jul 22 06:45	0°♍	
	10654 Aug 15 14:26	0°♎	
	10654 Sep 09 06:37	0°♏	
	10654 Oct 04 12:52	0°♐	
desc. node	10654 Oct 27 09:01	26°♐09'00	
	10654 Oct 30 20:02	0°♑	
	10654 Nov 28 07:30	0°♒	
evening max el	10654 Dec 02 06:48	3°♒51'21	45°48'34
	10655 Jan 05 09:16	0°♓	
greatest brilliancy	10655 Jan 10 07:58	2°♓01'21	-4.8m
retrograde	10655 Jan 20 01:33	3°♓44'23	
	10655 Feb 02 21:15	30°℞♒	
evening set	10655 Feb 04 02:59	29°♒20'20	
inferior conj	10655 Feb 10 03:37	25°♒43'59	-1°48'07
minimum elong	10655 Feb 10 07:38	25°♒37'43	1°46'32
min. Earth dist.	10655 Feb 10 16:46	25°♒23'29	0.28050 AU
morning rise	10655 Feb 16 11:47	21°♒56'38	
asc. node	10655 Feb 17 09:43	21°♒27'22	
direct	10655 Mar 03 08:41	17°♒36'28	
greatest brilliancy	10655 Mar 14 04:40	19°♒47'43	-4.8m
	10655 Mar 31 07:51	0°♓	
morning max el	10655 Apr 22 13:30	19°♓59'29	46°41'39
	10655 May 02 06:18	0°♈	
	10655 May 29 05:00	0°♉	
desc. node	10655 Jun 09 06:57	12°♉55'40	
	10655 Jun 23 15:32	0°♊	
	10655 Jul 18 10:25	0°♋	
	10655 Aug 11 22:35	0°♌	
	10655 Sep 05 08:19	0°♍	
	10655 Sep 29 17:08	0°♎	
asc. node	10655 Sep 30 01:38	0°♎26'10	
	10655 Oct 24 01:15	0°♏	
morning set	10655 Oct 24 14:18	0°♏40'16	
	10655 Nov 17 08:47	0°♐	
superior conj	10655 Nov 30 09:01	16°♐03'10	1°25'04
minimum elong	10655 Nov 30 11:57	16°♐12'10	1°25'35
max. Earth dist.	10655 Nov 30 21:13	16°♐40'46	1.73223 AU
	10655 Dec 11 16:22	0°♑	
	10656 Jan 05 00:39	0°♒	
evening rise	10656 Jan 06 11:25	1°♒46'59	
desc. node	10656 Jan 19 17:51	18°♒06'59	
	10656 Jan 29 09:42	0°♓	
	10656 Feb 22 19:03	0°♈	
	10656 Mar 18 04:40	0°♉	
	10656 Apr 11 16:15	0°♊	
	10656 May 06 10:05	0°♋	
asc. node	10656 May 11 15:11	6°♋14'52	

	10656 May 31	18:31	0°♌		
	10656 Jun 27	11:59	0°♍		
evening max el	10656 Jul 09	19:18	12°♍47'47	46°40'13	
	10656 Jul 28	12:33	0°♎		
greatest brilliancy	10656 Aug 17	21:50	12°♎51'02	-4.8m	
retrograde	10656 Aug 28	23:06	15°♎06'11		
desc. node	10656 Aug 31	14:09	14°♎57'54		
evening set	10656 Sep 13	03:33	10°♎36'23		
min. Earth dist.	10656 Sep 18	09:05	7°♎29'30	0.28057 AU	
inferior conj	10656 Sep 19	04:41	6°♎59'04	-4°26'47	
minimum elong	10656 Sep 18	19:47	7°♎12'54	4°24'23	
morning rise	10656 Sep 24	12:39	3°♎47'05		
	10656 Oct 03	07:28	30°℞♍		
direct	10656 Oct 10	07:43	29°♍01'52		
	10656 Oct 17	13:31	0°♎		
greatest brilliancy	10656 Oct 19	20:38	0°♎40'56	-4.8m	
morning max el	10656 Nov 28	01:21	28°♎52'13	45°43'21	
	10656 Nov 29	05:31	0°♏		
asc. node	10656 Dec 22	13:35	24°♏04'09		
	10656 Dec 27	23:43	0°♐		
	10657 Jan 23	08:59	0°♑		
	10657 Feb 17	16:51	0°♒		
	10657 Mar 14	10:45	0°♓		
	10657 Apr 07	19:57	0°♈		
desc. node	10657 Apr 13	07:21	6°♈46'51		
	10657 May 01	23:11	0°♉		
	10657 May 25	22:28	0°♊		
morning set	10657 May 29	09:54	4°♊21'45		
	10657 Jun 18	19:57	0°♋		
superior conj	10657 Jul 08	11:07	24°♋38'30	-0°59'10	
minimum elong	10657 Jul 08	22:38	25°♋14'36	0°59'15	
max. Earth dist.	10657 Jul 10	16:19	27°♋25'13	1.71517 AU	
	10657 Jul 12	17:43	0°♌		
asc. node	10657 Aug 04	01:07	27°♌54'14		
	10657 Aug 05	17:26	0°♍		
evening rise	10657 Aug 17	03:14	14°♍12'53		
	10657 Aug 29	20:05	0°♎		
	10657 Sep 23	02:40	0°♏		
	10657 Oct 17	14:52	0°♐		
	10657 Nov 11	11:16	0°♑		
desc. node	10657 Nov 23	19:54	14°♑43'10		
	10657 Dec 06	19:23	0°♒		
	10658 Jan 01	20:43	0°♓		
	10658 Jan 29	05:40	0°♈		
evening max el	10658 Feb 11	23:06	13°♈59'05	46°16'42	
	10658 Mar 01	14:37	0°♉		
asc. node	10658 Mar 16	20:13	10°♉34'07		
greatest brilliancy	10658 Mar 23	23:29	13°♉48'03	-4.8m	
retrograde	10658 Apr 02	17:05	15°♉35'07		
evening set	10658 Apr 19	05:16	10°♉19'20		
inferior conj	10658 Apr 23	11:04	7°♉45'38	7°59'57	
minimum elong	10658 Apr 23	01:20	8°♉00'39	7°58'06	
min. Earth dist.	10658 Apr 23	10:07	7°♉47'06	0.27306 AU	
morning rise	10658 Apr 26	21:18	5°♉40'06		
	10658 May 11	14:22	30°℞♈		
direct	10658 May 14	05:03	29°♈51'39		
	10658 May 16	20:34	0°♉		
greatest brilliancy	10658 May 24	02:32	1°♉42'13	-4.9m	
	10658 Jul 01	00:54	0°♊		
morning max el	10658 Jul 03	16:32	2°♊38'24	46°57'21	
desc. node	10658 Jul 06	18:31	5°♊46'10		
	10658 Jul 29	05:55	0°♋		
	10658 Aug 24	08:52	0°♌		
	10658 Sep 18	17:31	0°♍		
	10658 Oct 13	17:27	0°♎		
asc. node	10658 Oct 27	14:45	16°♎47'41		
	10658 Nov 07	11:38	0°♏		
	10658 Dec 02	01:11	0°♐		
	10658 Dec 26	11:11	0°♑		
morning set	10659 Jan 01	05:36	7°♑06'18		
	10659 Jan 19	18:50	0°♒		
max. Earth dist.	10659 Feb 05	12:20	20°♒41'12	1.72753 AU	
superior conj	10659 Feb 07	15:06	23°♒18'22	0°20'47	
minimum elong	10659 Feb 07	19:53	23°♒33'10	0°20'55	
	10659 Feb 13	00:48	0°♓		
desc. node	10659 Feb 16	06:48	4°♓01'37		
	10659 Mar 09	05:02	0°♈		
evening rise	10659 Mar 18	08:49	11°♈23'25		
	10659 Apr 02	07:24	0°♉		
	10659 Apr 26	08:38	0°♊		
	10659 May 20	10:45	0°♋		
asc. node	10659 Jun 09	02:24	24°♋19'55		
	10659 Jun 13	16:50	0°♌		
	10659 Jul 08	06:56	0°♍		
	10659 Aug 02	11:29	0°♎		
	10659 Aug 28	20:31	0°♏		
evening max el	10659 Sep 19	16:18	22°♏46'57	46°02'21	
	10659 Sep 27	07:03	0°♐		
desc. node	10659 Sep 29	00:34	1°♐34'06		
greatest brilliancy	10659 Oct 28	17:00	21°♐39'09	-4.7m	
retrograde	10659 Nov 08	00:35	23°♐35'37		
evening set	10659 Nov 26	08:28	17°♐17'17		
inferior conj	10659 Nov 29	13:18	15°♐17'59	-8°36'48	
minimum elong	10659 Nov 29	16:11	15°♐13'27	8°36'09	
min. Earth dist.	10659 Nov 29	14:50	15°♐15'34	0.29092 AU	
morning rise	10659 Dec 02	23:54	13°♐09'54		
direct	10659 Dec 21	00:29	7°♐01'31		
greatest brilliancy	10659 Dec 31	13:57	9°♐03'17	-4.7m	
asc. node	10660 Jan 20	00:54	20°♐40'12		
	10660 Jan 31	00:42	0°♑		
morning max el	10660 Feb 08	07:25	7°♑49'40	45°56'03	
	10660 Feb 29	13:51	0°♒		
	10660 Mar 27	00:35	0°♓		
	10660 Apr 21	06:35	0°♈		
desc. node	10660 May 10	20:23	23°♈47'59		
	10660 May 15	21:41	0°♉		
	10660 Jun 09	04:16	0°♊		
	10660 Jul 03	06:31	0°♋		
	10660 Jul 27	07:36	0°♌		
morning set	10660 Aug 11	13:51	19°♌01'18		
	10660 Aug 20	09:24	0°♍		
asc. node	10660 Aug 31	14:13	13°♍56'01		
	10660 Sep 13	12:38	0°♎		
superior conj	10660 Sep 19	03:06	6°♎57'13	0°43'02	
minimum elong	10660 Sep 18	18:27	6°♎30'24	0°42'40	
max. Earth dist.	10660 Sep 21	07:20	9°♎39'14	1.72613 AU	
	10660 Oct 07	17:29	0°♏		
evening rise	10660 Oct 26	05:27	22°♏51'36		
	10660 Nov 01	00:28	0°♐		
	10660 Nov 25	10:40	0°♑		
	10660 Dec 20	01:06	0°♒		
desc. node	10660 Dec 21	07:33	1°♒32'27		
	10661 Jan 13	20:17	0°♓		
	10661 Feb 07	20:46	0°♈		
	10661 Mar 05	05:31	0°♉		
	10661 Mar 31	08:32	0°♊		
asc. node	10661 Apr 13	06:27	14°♊10'27		
evening max el	10661 Apr 26	00:19	27°♊26'30	46°50'52	
	10661 Apr 28	14:06	0°♋		
greatest brilliancy	10661 Jun 05	10:46	28°♋12'48	-4.9m	
	10661 Jun 13	12:25	0°♌		

retrograde	10661 Jun	15	09:09	0°♌04'10	
	10661 Jun	17	05:28	30°℞♋	
evening set	10661 Jul	01	17:48	24°♋50'51	
inferior conj	10661 Jul	06	01:21	22°♋15'16	6°34'18
minimum elong	10661 Jul	06	12:32	21°♋58'07	6°31'12
min. Earth dist.	10661 Jul	06	06:27	22°♋07'27	0.27102 AU
morning rise	10661 Jul	11	07:26	19°♋08'23	
direct	10661 Jul	26	19:00	14°♋28'19	
desc. node	10661 Aug	03	05:35	15°♋31'59	
greatest brilliancy	10661 Aug	05	16:26	16°♋18'34	-4.8m
	10661 Aug	27	20:57	0°♌	
morning max el	10661 Sep	14	14:57	16°♌04'50	46°19'46
	10661 Sep	28	07:15	0°♍	
	10661 Oct	25	16:32	0°♎	
	10661 Nov	20	17:17	0°♏	
asc. node	10661 Nov	24	03:28	4°♏01'05	
	10661 Dec	16	00:31	0°♐	
	10662 Jan	09	20:32	0°♑	
	10662 Feb	03	09:13	0°♒	
	10662 Feb	27	16:55	0°♓	
morning set	10662 Mar	12	16:32	16°♓06'09	
desc. node	10662 Mar	15	19:59	20°♓00'32	
	10662 Mar	23	20:42	0°♈	
	10662 Apr	16	21:09	0°♉	
max. Earth dist.	10662 Apr	18	21:36	2°♉31'40	1.71587 AU
superior conj	10662 Apr	21	16:05	5°♉59'54	-1°14'56
minimum elong	10662 Apr	21	05:36	5°♉27'04	1°14'56
	10662 May	10	19:12	0°♊	
evening rise	10662 May	31	20:31	26°♊26'17	
	10662 Jun	03	16:37	0°♋	
	10662 Jun	27	15:31	0°♌	
asc. node	10662 Jul	06	14:25	11°♌10'33	
	10662 Jul	21	17:54	0°♍	
	10662 Aug	15	01:53	0°♎	
	10662 Sep	08	18:38	0°♏	
	10662 Oct	04	01:56	0°♐	
desc. node	10662 Oct	26	10:54	25°♐32'51	
	10662 Oct	30	11:17	0°♑	
	10662 Nov	28	04:52	0°♒	
evening max el	10662 Nov	29	21:24	1°♒37'39	45°48'17
greatest brilliancy	10663 Jan	07	23:27	29°♒48'22	-4.8m
	10663 Jan	08	13:37	0°♓	
retrograde	10663 Jan	17	15:37	1°♓30'17	
	10663 Jan	26	08:41	30°℞♒	
evening set	10663 Feb	01	19:42	27°♒03'45	
inferior conj	10663 Feb	07	18:42	23°♒29'33	-2°09'13
minimum elong	10663 Feb	07	23:27	23°♒22'07	2°07'24
min. Earth dist.	10663 Feb	08	08:35	23°♒07'50	0.28093 AU
morning rise	10663 Feb	14	02:38	19°♒42'00	
asc. node	10663 Feb	16	11:43	18°♒28'26	
direct	10663 Feb	28	23:48	15°♒21'29	
greatest brilliancy	10663 Mar	11	20:52	17°♒33'07	-4.8m
	10663 Mar	31	20:16	0°♓	
morning max el	10663 Apr	20	03:01	17°♓38'31	46°40'08
	10663 May	02	00:56	0°♈	
	10663 May	28	19:42	0°♉	
desc. node	10663 Jun	08	08:51	12°♉20'26	
	10663 Jun	23	04:34	0°♊	
	10663 Jul	17	22:33	0°♋	
	10663 Aug	11	10:07	0°♌	
	10663 Sep	04	19:25	0°♍	
asc. node	10663 Sep	29	03:27	29°♍58'31	
	10663 Sep	29	03:56	0°♎	
morning set	10663 Oct	22	06:37	28°♎29'50	
	10663 Oct	23	11:51	0°♏	
	10663 Nov	16	19:19	0°♐	
superior conj	10663 Nov	28	02:19	13°♐56'06	1°25'32
minimum elong	10663 Nov	28	04:31	14°♐02'53	1°26'02
max. Earth dist.	10663 Nov	28	13:29	14°♐30'32	1.73218 AU
	10663 Dec	11	02:53	0°♑	
evening rise	10664 Jan	04	03:38	29°♑36'34	
	10664 Jan	04	11:14	0°♒	
desc. node	10664 Jan	18	19:52	17°♒40'22	
	10664 Jan	28	20:26	0°♓	
	10664 Feb	22	06:03	0°♈	
	10664 Mar	17	16:05	0°♉	
	10664 Apr	11	04:16	0°♊	
	10664 May	05	23:03	0°♋	
asc. node	10664 May	10	17:02	5°♋40'55	
	10664 May	31	09:11	0°♌	
	10664 Jun	27	06:37	0°♍	
evening max el	10664 Jul	07	08:45	10°♍26'02	46°41'17
	10664 Jul	29	00:36	0°♎	
greatest brilliancy	10664 Aug	15	13:49	10°♎35'16	-4.8m
retrograde	10664 Aug	26	13:43	12°♎49'44	
desc. node	10664 Aug	30	16:09	12°♎29'24	
evening set	10664 Sep	10	16:35	8°♎22'40	
min. Earth dist.	10664 Sep	16	00:29	5°♎12'49	0.28002 AU
inferior conj	10664 Sep	16	19:21	4°♎43'32	-4°07'50
minimum elong	10664 Sep	16	10:54	4°♎56'40	4°05'30
morning rise	10664 Sep	22	05:48	1°♎28'05	
	10664 Sep	25	01:08	30°℞♍	
direct	10664 Oct	07	21:18	26°♍46'57	
greatest brilliancy	10664 Oct	17	11:35	28°♍26'50	-4.8m
	10664 Oct	21	10:52	0°♎	
morning max el	10664 Nov	25	15:03	26°♎36'13	45°43'54
	10664 Nov	29	03:04	0°♏	
asc. node	10664 Dec	21	15:38	23°♏26'16	
	10664 Dec	27	14:55	0°♐	
	10665 Jan	22	21:56	0°♑	
	10665 Feb	17	04:42	0°♒	
	10665 Mar	13	22:01	0°♓	
	10665 Apr	07	06:54	0°♈	
desc. node	10665 Apr	12	09:12	6°♈18'47	
	10665 May	01	09:58	0°♉	
	10665 May	25	09:10	0°♊	
morning set	10665 May	26	21:01	1°♊52'28	
	10665 Jun	18	06:35	0°♋	
superior conj	10665 Jul	05	23:11	22°♋12'34	-1°01'58
minimum elong	10665 Jul	06	10:47	22°♋48'58	1°02'04
max. Earth dist.	10665 Jul	07	22:25	24°♋40'38	1.71492 AU
	10665 Jul	12	04:20	0°♌	
asc. node	10665 Aug	03	03:04	27°♌27'13	
	10665 Aug	05	04:02	0°♍	
evening rise	10665 Aug	14	17:02	11°♍53'25	
	10665 Aug	29	06:45	0°♎	
	10665 Sep	22	13:28	0°♏	
	10665 Oct	17	01:56	0°♐	
	10665 Nov	10	22:53	0°♑	
desc. node	10665 Nov	22	21:53	14°♑13'22	
	10665 Dec	06	08:00	0°♒	
	10666 Jan	01	11:12	0°♓	
	10666 Jan	29	00:23	0°♈	
evening max el	10666 Feb	09	12:54	11°♈39'53	46°15'30
	10666 Mar	02	03:00	0°♉	
asc. node	10666 Mar	15	22:10	9°♉00'21	
greatest brilliancy	10666 Mar	21	11:50	11°♉24'53	-4.8m
retrograde	10666 Mar	31	06:46	13°♉13'04	
evening set	10666 Apr	16	14:11	8°♉03'00	
inferior conj	10666 Apr	21	00:23	5°♉23'06	7°47'37
minimum elong	10666 Apr	20	14:15	5°♉38'44	7°45'36
min. Earth dist.	10666 Apr	20	23:04	5°♉25'07	0.27316 AU

morning rise	10666 Apr 24 14:11	3°♉12'30	
	10666 Apr 30 16:16	30°♑	
direct	10666 May 11 18:42	27°♈28'43	
greatest brilliancy	10666 May 21 16:14	29°♈19'46	-4.9m
	10666 May 23 10:06	0°♉	
	10666 Jun 30 23:45	0°♊	
morning max el	10666 Jul 01 07:08	0°♊18'33	46°57'49
desc. node	10666 Jul 05 20:38	4°♊57'47	
	10666 Jul 28 22:00	0°♋	
	10666 Aug 23 22:27	0°♌	
	10666 Sep 18 05:49	0°♍	
	10666 Oct 13 04:58	0°♎	
asc. node	10666 Oct 26 16:37	16°♎19'27	
	10666 Nov 06 22:38	0°♏	
	10666 Dec 01 11:51	0°♐	
	10666 Dec 25 21:41	0°♑	
morning set	10666 Dec 29 22:27	4°♑58'02	
	10667 Jan 19 05:18	0°♒	
max. Earth dist.	10667 Feb 03 07:40	18°♒40'03	1.72787 AU
superior conj	10667 Feb 05 06:08	21°♒03'49	0°24'11
minimum elong	10667 Feb 05 11:36	21°♒20'46	0°24'18
	10667 Feb 12 11:19	0°♓	
desc. node	10667 Feb 15 08:41	3°♓34'51	
	10667 Mar 08 15:39	0°♈	
evening rise	10667 Mar 15 22:44	9°♈04'16	
	10667 Apr 01 18:09	0°♉	
	10667 Apr 25 19:32	0°♊	
	10667 May 19 21:54	0°♋	
asc. node	10667 Jun 08 04:26	23°♋50'51	
	10667 Jun 13 04:24	0°♌	
	10667 Jul 07 19:11	0°♍	
	10667 Aug 02 00:59	0°♎	
	10667 Aug 28 12:50	0°♏	
evening max el	10667 Sep 17 08:33	20°♏36'35	46°03'29
	10667 Sep 27 08:54	0°♐	
desc. node	10667 Sep 28 02:29	0°♐39'00	
greatest brilliancy	10667 Oct 26 07:23	19°♐28'05	-4.8m
retrograde	10667 Nov 05 17:10	21°♐26'04	
evening set	10667 Nov 24 00:53	15°♐06'59	
inferior conj	10667 Nov 27 05:21	13°♐08'06	-8°39'13
minimum elong	10667 Nov 27 07:30	13°♐04'44	8°38'38
min. Earth dist.	10667 Nov 27 05:12	13°♐08'20	0.29093 AU
morning rise	10667 Nov 30 14:10	11°♐02'50	
direct	10667 Dec 18 17:05	4°♐52'05	
greatest brilliancy	10667 Dec 29 04:08	6°♐51'59	-4.7m
asc. node	10668 Jan 19 02:55	19°♐36'59	
	10668 Jan 31 01:33	0°♑	
morning max el	10668 Feb 05 23:27	5°♑38'48	45°54'43
	10668 Feb 29 05:59	0°♒	
	10668 Mar 26 14:04	0°♓	
	10668 Apr 20 18:52	0°♈	
desc. node	10668 May 09 22:15	23°♈17'50	
	10668 May 15 09:18	0°♉	
	10668 Jun 08 15:27	0°♊	
	10668 Jul 02 17:25	0°♋	
	10668 Jul 26 18:18	0°♌	
morning set	10668 Aug 09 04:12	16°♌43'31	
	10668 Aug 19 19:58	0°♍	
asc. node	10668 Aug 30 16:01	13°♍28'59	
	10668 Sep 12 23:06	0°♎	
superior conj	10668 Sep 16 18:44	4°♎44'23	0°40'00
minimum elong	10668 Sep 16 10:31	4°♎18'52	0°39'38
max. Earth dist.	10668 Sep 19 02:35	7°♎37'38	1.72581 AU
	10668 Oct 07 03:56	0°♏	
evening rise	10668 Oct 23 22:26	20°♏43'34	
	10668 Oct 31 10:59	0°♐	
	10668 Nov 24 21:22	0°♑	
	10668 Dec 19 12:09	0°♒	
desc. node	10668 Dec 20 09:32	1°♒04'54	
	10669 Jan 13 07:52	0°♓	
	10669 Feb 07 09:10	0°♈	
	10669 Mar 04 19:18	0°♉	
	10669 Mar 31 01:04	0°♊	
asc. node	10669 Apr 12 08:24	13°♊25'01	
evening max el	10669 Apr 23 14:27	25°♊04'53	46°50'11
	10669 Apr 28 14:19	0°♋	
greatest brilliancy	10669 Jun 03 00:59	25°♋49'40	-4.9m
retrograde	10669 Jun 12 22:18	27°♋39'44	
evening set	10669 Jun 29 10:27	22°♋21'53	
inferior conj	10669 Jul 03 14:18	19°♋51'21	6°51'00
minimum elong	10669 Jul 04 01:28	19°♋34'12	6°48'01
min. Earth dist.	10669 Jul 03 19:43	19°♋43'01	0.27095 AU
morning rise	10669 Jul 08 16:38	16°♋49'24	
direct	10669 Jul 24 08:01	12°♋04'41	
desc. node	10669 Aug 02 07:28	13°♋35'58	
greatest brilliancy	10669 Aug 03 04:49	13°♋54'10	-4.8m
	10669 Aug 28 06:27	0°♌	
morning max el	10669 Sep 12 04:07	13°♌43'49	46°21'24
	10669 Sep 28 01:32	0°♍	
	10669 Oct 25 06:50	0°♎	
	10669 Nov 20 05:49	0°♏	
asc. node	10669 Nov 23 05:28	3°♏30'32	
	10669 Dec 15 12:08	0°♐	
	10670 Jan 09 07:40	0°♑	
	10670 Feb 02 20:05	0°♒	
	10670 Feb 27 03:39	0°♓	
morning set	10670 Mar 10 05:57	13°♓45'36	
desc. node	10670 Mar 14 21:46	19°♓32'51	
	10670 Mar 23 07:23	0°♈	
max. Earth dist.	10670 Apr 16 04:17	29°♈48'50	1.71624 AU
	10670 Apr 16 07:51	0°♉	
superior conj	10670 Apr 19 03:58	3°♉33'14	-1°12'51
minimum elong	10670 Apr 18 17:06	2°♉59'11	1°12'49
	10670 May 10 05:59	0°♊	
evening rise	10670 May 29 07:20	23°♊55'30	
	10670 Jun 03 03:30	0°♋	
	10670 Jun 27 02:29	0°♌	
asc. node	10670 Jul 05 16:22	10°♌42'19	
	10670 Jul 21 05:00	0°♍	
	10670 Aug 14 13:16	0°♎	
	10670 Sep 08 06:34	0°♏	
	10670 Oct 03 14:57	0°♐	
desc. node	10670 Oct 25 12:53	24°♐57'01	
	10670 Oct 30 02:41	0°♑	
evening max el	10670 Nov 27 11:24	29°♑22'35	45°47'54
	10670 Nov 28 03:03	0°♒	
greatest brilliancy	10671 Jan 05 14:58	27°♒35'20	-4.8m
retrograde	10671 Jan 15 05:44	29°♒16'26	
evening set	10671 Jan 30 12:35	24°♒46'49	
inferior conj	10671 Feb 05 09:51	21°♒15'09	-2°30'01
minimum elong	10671 Feb 05 15:18	21°♒06'37	2°27'59
min. Earth dist.	10671 Feb 06 00:38	20°♒52'02	0.28140 AU
morning rise	10671 Feb 11 17:22	17°♒27'48	
asc. node	10671 Feb 15 13:37	15°♒33'34	
direct	10671 Feb 26 14:45	13°♒06'18	
greatest brilliancy	10671 Mar 09 13:36	15°♒19'05	-4.8m
	10671 Apr 01 05:32	0°♓	
morning max el	10671 Apr 17 16:53	15°♓18'08	46°38'41
	10671 May 01 19:11	0°♈	
	10671 May 28 10:18	0°♉	
desc. node	10671 Jun 07 10:55	11°♉45'39	

	10671 Jun 22 17:36	0°♊	
	10671 Jul 17 10:43	0°♋	
	10671 Aug 10 21:43	0°♌	
	10671 Sep 04 06:35	0°♍	
asc. node	10671 Sep 28 05:21	29°♍30'54	
	10671 Sep 28 14:48	0°♎	
morning set	10671 Oct 19 23:13	26°♎20'01	
	10671 Oct 22 22:31	0°♏	
	10671 Nov 16 05:53	0°♐	
superior conj	10671 Nov 25 19:56	11°♐49'52	1°25'51
minimum elong	10671 Nov 25 21:25	11°♐54'24	1°26'21
max. Earth dist.	10671 Nov 26 07:02	12°♐24'05	1.73215 AU
	10671 Dec 10 13:29	0°♑	
evening rise	10672 Jan 01 20:09	27°♑26'48	
	10672 Jan 03 21:57	0°♒	
desc. node	10672 Jan 17 21:45	17°♒12'51	
	10672 Jan 28 07:22	0°♓	
	10672 Feb 21 17:18	0°♈	
	10672 Mar 17 03:46	0°♉	
	10672 Apr 10 16:34	0°♊	
	10672 May 05 12:19	0°♋	
asc. node	10672 May 09 19:06	5°♋06'44	
	10672 May 31 00:17	0°♌	
	10672 Jun 27 02:04	0°♍	
evening max el	10672 Jul 04 22:19	8°♍03'53	46°42'24
	10672 Jul 29 17:13	0°♎	
greatest brilliancy	10672 Aug 13 05:26	8°♎18'09	-4.8m
retrograde	10672 Aug 24 04:45	10°♎32'37	
desc. node	10672 Aug 29 18:06	9°♎55'03	
evening set	10672 Sep 08 05:46	6°♎07'43	
min. Earth dist.	10672 Sep 13 15:45	2°♎55'26	0.27947 AU
inferior conj	10672 Sep 14 10:01	2°♎27'10	-3°48'21
minimum elong	10672 Sep 14 02:03	2°♎39'30	3°46'09
	10672 Sep 18 10:54	30°℞♍	
morning rise	10672 Sep 19 22:53	29°♍08'38	
direct	10672 Oct 05 10:58	24°♍31'04	
greatest brilliancy	10672 Oct 15 02:23	26°♍11'58	-4.8m
	10672 Oct 23 12:56	0°♎	
morning max el	10672 Nov 23 05:40	24°♎21'58	45°44'39
	10672 Nov 28 24:00	0°♏	
asc. node	10672 Dec 20 17:36	22°♏48'10	
	10672 Dec 27 06:04	0°♐	
	10673 Jan 22 10:57	0°♑	
	10673 Feb 16 16:44	0°♒	
	10673 Mar 13 09:33	0°♓	
	10673 Apr 06 18:11	0°♈	
desc. node	10673 Apr 11 11:11	5°♈50'05	
	10673 Apr 30 21:06	0°♉	
morning set	10673 May 24 07:56	29°♉21'29	
	10673 May 24 20:12	0°♊	
	10673 Jun 17 17:33	0°♋	
superior conj	10673 Jul 03 11:00	19°♋44'47	-1°04'38
minimum elong	10673 Jul 03 22:38	20°♋21'15	1°04'47
max. Earth dist.	10673 Jul 05 06:20	22°♋00'39	1.71469 AU
	10673 Jul 11 15:16	0°♌	
asc. node	10673 Aug 02 04:52	26°♌58'40	
	10673 Aug 04 15:00	0°♍	
evening rise	10673 Aug 12 06:45	9°♍32'37	
	10673 Aug 28 17:46	0°♎	
	10673 Sep 22 00:38	0°♏	
	10673 Oct 16 13:23	0°♐	
	10673 Nov 10 10:52	0°♑	
desc. node	10673 Nov 21 23:56	13°♑42'48	
	10673 Dec 05 20:59	0°♒	
	10674 Jan 01 02:09	0°♓	
	10674 Jan 28 19:57	0°♈	
evening max el	10674 Feb 07 03:35	9°♈22'12	46°14'06
	10674 Mar 02 20:16	0°♉	
asc. node	10674 Mar 15 00:08	7°♉21'53	
greatest brilliancy	10674 Mar 18 23:56	9°♉00'21	-4.8m
retrograde	10674 Mar 28 20:32	10°♉49'28	
evening set	10674 Apr 13 23:11	5°♉45'14	
inferior conj	10674 Apr 18 13:39	2°♉59'03	7°34'17
minimum elong	10674 Apr 18 03:10	3°♉15'12	7°32'08
min. Earth dist.	10674 Apr 18 11:55	3°♉01'44	0.27329 AU
morning rise	10674 Apr 22 07:06	0°♉43'10	
	10674 Apr 23 12:56	30°℞♈	
direct	10674 May 09 08:45	25°♈04'24	
greatest brilliancy	10674 May 19 05:41	26°♈55'19	-4.9m
	10674 May 25 23:51	0°♉	
morning max el	10674 Jun 28 21:54	27°♉57'35	46°58'12
	10674 Jun 30 22:16	0°♊	
desc. node	10674 Jul 04 22:32	4°♊08'06	
	10674 Jul 28 14:18	0°♋	
	10674 Aug 23 12:22	0°♌	
	10674 Sep 17 18:28	0°♍	
	10674 Oct 12 16:50	0°♎	
asc. node	10674 Oct 25 18:36	15°♎50'23	
	10674 Nov 06 10:00	0°♏	
	10674 Nov 30 22:53	0°♐	
	10674 Dec 25 08:32	0°♑	
morning set	10674 Dec 27 15:46	2°♑50'07	
	10675 Jan 18 16:05	0°♒	
max. Earth dist.	10675 Feb 01 02:52	16°♒37'31	1.72816 AU
superior conj	10675 Feb 02 21:44	18°♒50'06	0°27'29
minimum elong	10675 Feb 03 03:51	19°♒09'01	0°27'35
	10675 Feb 11 22:09	0°♓	
desc. node	10675 Feb 14 10:31	3°♓06'59	
	10675 Mar 08 02:36	0°♈	
evening rise	10675 Mar 13 13:04	6°♈45'24	
	10675 Apr 01 05:16	0°♉	
	10675 Apr 25 06:53	0°♊	
	10675 May 19 09:33	0°♋	
asc. node	10675 Jun 07 06:21	23°♋19'46	
	10675 Jun 12 16:30	0°♌	
	10675 Jul 07 08:01	0°♍	
	10675 Aug 01 15:10	0°♎	
	10675 Aug 28 06:02	0°♏	
evening max el	10675 Sep 15 00:42	18°♏24'29	46°04'40
desc. node	10675 Sep 27 04:31	29°♏41'38	
	10675 Sep 27 12:59	0°♐	
greatest brilliancy	10675 Oct 23 22:28	17°♐16'27	-4.8m
retrograde	10675 Nov 03 09:25	19°♐15'03	
evening set	10675 Nov 21 17:02	12°♐56'04	
inferior conj	10675 Nov 24 21:26	10°♐57'04	-8°40'57
minimum elong	10675 Nov 24 22:48	10°♐54'56	8°40'26
min. Earth dist.	10675 Nov 24 19:50	10°♐59'36	0.29086 AU
morning rise	10675 Nov 28 04:39	8°♐54'06	
direct	10675 Dec 16 09:32	2°♐41'38	
greatest brilliancy	10675 Dec 26 18:11	4°♐39'19	-4.7m
asc. node	10676 Jan 18 04:46	18°♐33'58	
	10676 Jan 31 01:36	0°♑	
morning max el	10676 Feb 03 14:50	3°♑25'25	45°53'36
	10676 Feb 28 22:09	0°♒	
	10676 Mar 26 03:43	0°♓	
	10676 Apr 20 07:23	0°♈	
desc. node	10676 May 09 00:17	22°♈47'14	
	10676 May 14 21:13	0°♉	
	10676 Jun 08 03:00	0°♊	
	10676 Jul 02 04:45	0°♋	
	10676 Jul 26 05:27	0°♌	

morning set	10676 Aug 06 18:00	14°♌22'26	
	10676 Aug 19 06:58	0°♍	
asc. node	10676 Aug 29 17:57	13°♍00'55	
	10676 Sep 12 10:00	0°♎	
superior conj	10676 Sep 14 09:52	2°♎28'32	0°36'52
minimum elong	10676 Sep 14 02:07	2°♎04'31	0°36'29
max. Earth dist.	10676 Sep 16 20:54	5°♎31'45	1.72542 AU
	10676 Oct 06 14:47	0°♏	
evening rise	10676 Oct 21 15:06	18°♏33'13	
	10676 Oct 30 21:54	0°♐	
	10676 Nov 24 08:29	0°♑	
	10676 Dec 18 23:36	0°♒	
desc. node	10676 Dec 19 11:25	0°♒35'51	
	10677 Jan 12 19:49	0°♓	
	10677 Feb 06 21:57	0°♈	
	10677 Mar 04 09:29	0°♉	
	10677 Mar 30 18:08	0°♊	
asc. node	10677 Apr 11 10:29	12°♊38'45	
evening max el	10677 Apr 21 03:32	22°♊40'06	46°49'20
	10677 Apr 28 16:03	0°♋	
greatest brilliancy	10677 May 31 15:30	23°♋26'05	-4.9m
retrograde	10677 Jun 10 10:53	25°♋14'26	
evening set	10677 Jun 27 03:06	19°♋51'52	
inferior conj	10677 Jul 01 03:16	17°♋26'31	7°06'49
minimum elong	10677 Jul 01 14:19	17°♋09'31	7°03'59
min. Earth dist.	10677 Jul 01 09:17	17°♋17'16	0.27097 AU
morning rise	10677 Jul 06 01:38	14°♋29'42	
direct	10677 Jul 21 20:36	9°♋39'44	
greatest brilliancy	10677 Jul 31 17:55	11°♋29'14	-4.9m
desc. node	10677 Aug 01 09:27	11°♋43'23	
	10677 Aug 28 13:54	0°♌	
morning max el	10677 Sep 09 16:52	11°♌20'07	46°23'00
	10677 Sep 27 19:50	0°♍	
	10677 Oct 24 21:23	0°♎	
	10677 Nov 19 18:38	0°♏	
asc. node	10677 Nov 22 07:25	2°♏58'54	
	10677 Dec 15 00:01	0°♐	
	10678 Jan 08 19:02	0°♑	
	10678 Feb 02 07:11	0°♒	
	10678 Feb 26 14:36	0°♓	
morning set	10678 Mar 07 19:44	11°♓25'27	
desc. node	10678 Mar 13 23:47	19°♓05'15	
	10678 Mar 22 18:16	0°♈	
max. Earth dist.	10678 Apr 13 13:16	27°♈12'45	1.71658 AU
	10678 Apr 15 18:43	0°♉	
superior conj	10678 Apr 16 16:21	1°♉07'43	-1°10'39
minimum elong	10678 Apr 16 05:11	0°♉32'46	1°10'34
	10678 May 09 16:53	0°♊	
evening rise	10678 May 26 18:39	21°♊26'02	
	10678 Jun 02 14:28	0°♋	
	10678 Jun 26 13:35	0°♌	
asc. node	10678 Jul 04 18:13	10°♌13'14	
	10678 Jul 20 16:18	0°♍	
	10678 Aug 14 00:55	0°♎	
	10678 Sep 07 18:51	0°♏	
	10678 Oct 03 04:24	0°♐	
desc. node	10678 Oct 24 14:58	24°♐20'18	
	10678 Oct 29 18:39	0°♑	
evening max el	10678 Nov 25 01:02	27°♑06'00	45°47'45
	10678 Nov 28 02:34	0°♒	
greatest brilliancy	10679 Jan 03 05:54	25°♒21'03	-4.8m
retrograde	10679 Jan 12 20:12	27°♒02'06	
evening set	10679 Jan 28 05:29	22°♒28'54	
inferior conj	10679 Feb 03 00:54	19°♒00'03	-2°50'30
minimum elong	10679 Feb 03 07:02	18°♒50'28	2°48'18
min. Earth dist.	10679 Feb 03 16:27	18°♒35'47	0.28187 AU
morning rise	10679 Feb 09 07:52	15°♒13'26	
asc. node	10679 Feb 14 15:41	12°♒42'08	
direct	10679 Feb 24 05:38	10°♒50'19	
greatest brilliancy	10679 Mar 07 06:17	13°♒04'37	-4.8m
	10679 Apr 01 12:24	0°♓	
morning max el	10679 Apr 15 07:47	13°♓00'12	46°37'28
	10679 May 01 13:04	0°♈	
	10679 May 28 00:44	0°♉	
desc. node	10679 Jun 06 12:47	11°♉10'37	
	10679 Jun 22 06:30	0°♊	
	10679 Jul 16 22:46	0°♋	
	10679 Aug 10 09:14	0°♌	
	10679 Sep 03 17:44	0°♍	
asc. node	10679 Sep 27 07:20	29°♍03'24	
	10679 Sep 28 01:41	0°♎	
morning set	10679 Oct 17 15:27	24°♎08'50	
	10679 Oct 22 09:15	0°♏	
	10679 Nov 15 16:32	0°♐	
superior conj	10679 Nov 23 13:10	9°♐42'07	1°26'02
minimum elong	10679 Nov 23 13:54	9°♐44'25	1°26'33
max. Earth dist.	10679 Nov 24 01:21	10°♐19'41	1.73212 AU
	10679 Dec 10 00:08	0°♑	
evening rise	10679 Dec 30 12:24	25°♑16'07	
	10680 Jan 03 08:41	0°♒	
desc. node	10680 Jan 16 23:36	16°♒45'08	
	10680 Jan 27 18:19	0°♓	
	10680 Feb 21 04:34	0°♈	
	10680 Mar 16 15:28	0°♉	
	10680 Apr 10 04:52	0°♊	
	10680 May 05 01:35	0°♋	
asc. node	10680 May 08 21:03	4°♋32'27	
	10680 May 30 15:23	0°♌	
	10680 Jun 26 21:47	0°♍	
evening max el	10680 Jul 02 12:50	5°♍44'57	46°43'35
	10680 Jul 30 15:06	0°♎	
greatest brilliancy	10680 Aug 10 20:26	6°♎01'12	-4.8m
retrograde	10680 Aug 21 20:18	8°♎16'21	
desc. node	10680 Aug 28 20:09	7°♎16'29	
evening set	10680 Sep 05 19:14	3°♎53'13	
min. Earth dist.	10680 Sep 11 06:45	0°♎39'06	0.27899 AU
inferior conj	10680 Sep 12 00:42	0°♎11'22	-3°28'31
minimum elong	10680 Sep 11 17:18	0°♎22'49	3°26'25
	10680 Sep 12 08:04	30°℞♍	
morning rise	10680 Sep 17 15:58	26°♍50'02	
direct	10680 Oct 03 01:10	22°♍15'46	
greatest brilliancy	10680 Oct 12 16:51	23°♍57'14	-4.8m
	10680 Oct 24 21:50	0°♎	
morning max el	10680 Nov 20 21:17	22°♎10'25	45°45'12
	10680 Nov 28 20:08	0°♏	
asc. node	10680 Dec 19 19:27	22°♏10'17	
	10680 Dec 26 20:57	0°♐	
	10681 Jan 21 23:49	0°♑	
	10681 Feb 16 04:36	0°♒	
	10681 Mar 12 20:55	0°♓	
	10681 Apr 06 05:16	0°♈	
desc. node	10681 Apr 10 13:04	5°♈21'42	
	10681 Apr 30 08:02	0°♉	
morning set	10681 May 21 18:53	26°♉51'22	
	10681 May 24 07:02	0°♊	
	10681 Jun 17 04:17	0°♋	
superior conj	10681 Jun 30 22:58	17°♋18'09	-1°07'12
minimum elong	10681 Jul 01 10:32	17°♋54'26	1°07'22
max. Earth dist.	10681 Jul 02 16:39	19°♋28'56	1.71442 AU
	10681 Jul 11 01:56	0°♌	

asc. node	10681 Aug 01 06:50	26°♌31'33	
	10681 Aug 04 01:39	0°♍	
evening rise	10681 Aug 09 20:42	7°♍13'27	
	10681 Aug 28 04:28	0°♎	
	10681 Sep 21 11:29	0°♏	
	10681 Oct 16 00:33	0°♐	
	10681 Nov 09 22:38	0°♑	
desc. node	10681 Nov 21 01:46	13°♑12'13	
	10681 Dec 05 09:50	0°♒	
	10681 Dec 31 17:06	0°♓	
	10682 Jan 28 15:56	0°♈	
evening max el	10682 Feb 04 18:49	7°♈06'34	46°12'44
	10682 Mar 03 19:13	0°♉	
asc. node	10682 Mar 14 02:12	5°♉40'33	
greatest brilliancy	10682 Mar 16 12:21	6°♉37'03	-4.8m
retrograde	10682 Mar 26 10:00	8°♉26'29	
evening set	10682 Apr 11 08:21	3°♉28'13	
inferior conj	10682 Apr 16 02:54	0°♉35'54	7°20'18
minimum elong	10682 Apr 15 16:10	0°♉52'28	7°17'59
min. Earth dist.	10682 Apr 16 00:52	0°♉39'03	0.27339 AU
	10682 Apr 17 02:10	30°℞♈	
morning rise	10682 Apr 19 23:55	28°♈14'40	
direct	10682 May 06 22:49	22°♈41'11	
greatest brilliancy	10682 May 16 19:04	24°♈31'39	-4.9m
	10682 May 27 14:12	0°♉	
morning max el	10682 Jun 26 12:08	25°♉36'20	46°58'32
	10682 Jun 30 19:32	0°♊	
desc. node	10682 Jul 04 00:28	3°♊20'25	
	10682 Jul 28 05:56	0°♋	
	10682 Aug 23 01:44	0°♌	
	10682 Sep 17 06:36	0°♍	
	10682 Oct 12 04:14	0°♎	
asc. node	10682 Oct 24 20:28	15°♎22'25	
	10682 Nov 05 20:54	0°♏	
	10682 Nov 30 09:31	0°♐	
	10682 Dec 24 19:02	0°♑	
morning set	10682 Dec 25 08:59	0°♑42'59	
	10683 Jan 18 02:34	0°♒	
max. Earth dist.	10683 Jan 29 19:20	14°♒27'30	1.72846 AU
superior conj	10683 Jan 31 13:11	16°♒36'54	0°30'45
minimum elong	10683 Jan 31 19:53	16°♒57'38	0°30'52
	10683 Feb 11 08:42	0°♓	
desc. node	10683 Feb 13 12:32	2°♓40'31	
	10683 Mar 07 13:15	0°♈	
evening rise	10683 Mar 11 03:02	4°♈26'29	
	10683 Mar 31 16:03	0°♉	
	10683 Apr 24 17:53	0°♊	
	10683 May 18 20:52	0°♋	
asc. node	10683 Jun 06 08:13	22°♋49'39	
	10683 Jun 12 04:17	0°♌	
	10683 Jul 06 20:32	0°♍	
	10683 Aug 01 05:01	0°♎	
	10683 Aug 27 23:03	0°♏	
evening max el	10683 Sep 12 16:28	16°♏12'45	46°05'55
desc. node	10683 Sep 26 06:34	28°♏44'44	
	10683 Sep 27 18:12	0°♐	
greatest brilliancy	10683 Oct 21 14:07	15°♐07'14	-4.8m
retrograde	10683 Nov 01 01:15	17°♐06'03	
evening set	10683 Nov 19 09:00	10°♐47'49	
inferior conj	10683 Nov 22 13:43	8°♐48'10	-8°41'57
minimum elong	10683 Nov 22 14:16	8°♐47'17	8°41'27
min. Earth dist.	10683 Nov 22 10:55	8°♐52'33	0.29080 AU
morning rise	10683 Nov 25 19:38	6°♐46'56	
direct	10683 Dec 14 01:50	0°♐33'15	
greatest brilliancy	10683 Dec 24 08:50	2°♐29'04	-4.7m
asc. node	10684 Jan 17 06:51	17°♐34'25	
	10684 Jan 31 00:05	0°♑	
morning max el	10684 Feb 01 05:29	1°♑11'28	45°52'17
	10684 Feb 28 13:42	0°♒	
	10684 Mar 25 16:58	0°♓	
	10684 Apr 19 19:33	0°♈	
desc. node	10684 May 08 02:09	22°♈17'14	
	10684 May 14 08:45	0°♉	
	10684 Jun 07 14:10	0°♊	
	10684 Jul 01 15:40	0°♋	
	10684 Jul 25 16:12	0°♌	
morning set	10684 Aug 04 07:43	12°♌02'20	
	10684 Aug 18 17:34	0°♍	
asc. node	10684 Aug 28 19:55	12°♍34'14	
	10684 Sep 11 20:29	0°♎	
superior conj	10684 Sep 12 01:09	0°♎14'27	0°33'40
minimum elong	10684 Sep 11 17:56	29°♍52'04	0°33'16
max. Earth dist.	10684 Sep 14 13:17	3°♎21'05	1.72500 AU
	10684 Oct 06 01:13	0°♏	
evening rise	10684 Oct 19 08:01	16°♏25'02	
	10684 Oct 30 08:24	0°♐	
	10684 Nov 23 19:09	0°♑	
	10684 Dec 18 10:37	0°♒	
desc. node	10684 Dec 18 13:23	0°♒08'23	
	10685 Jan 12 07:24	0°♓	
	10685 Feb 06 10:26	0°♈	
	10685 Mar 03 23:31	0°♉	
	10685 Mar 30 11:19	0°♊	
asc. node	10685 Apr 10 12:24	11°♊52'05	
evening max el	10685 Apr 18 15:53	20°♊14'07	46°48'33
	10685 Apr 28 19:00	0°♋	
greatest brilliancy	10685 May 29 06:08	21°♋03'09	-4.9m
retrograde	10685 Jun 07 23:20	22°♋50'00	
evening set	10685 Jun 24 19:40	17°♋22'21	
inferior conj	10685 Jun 28 16:12	15°♋02'28	7°21'54
minimum elong	10685 Jun 29 03:03	14°♋45'47	7°19'14
min. Earth dist.	10685 Jun 28 22:58	14°♋52'03	0.27097 AU
morning rise	10685 Jul 03 10:26	12°♋11'14	
direct	10685 Jul 19 08:48	7°♋15'20	
greatest brilliancy	10685 Jul 29 07:22	9°♋05'37	-4.9m
desc. node	10685 Jul 31 11:33	9°♋56'14	
	10685 Aug 28 18:41	0°♌	
morning max el	10685 Sep 07 05:49	8°♌57'53	46°24'44
	10685 Sep 27 13:15	0°♍	
	10685 Oct 24 11:20	0°♎	
	10685 Nov 19 06:56	0°♏	
asc. node	10685 Nov 21 09:15	2°♏28'19	
	10685 Dec 14 11:26	0°♐	
	10686 Jan 08 05:59	0°♑	
	10686 Feb 01 17:53	0°♒	
	10686 Feb 26 01:11	0°♓	
morning set	10686 Mar 05 09:42	9°♓07'01	
desc. node	10686 Mar 13 01:41	18°♓38'16	
	10686 Mar 22 04:51	0°♈	
max. Earth dist.	10686 Apr 11 00:03	24°♈43'06	1.71701 AU
superior conj	10686 Apr 14 04:29	28°♈42'13	-1°08'18
minimum elong	10686 Apr 13 17:07	28°♈06'38	1°08'09
	10686 Apr 15 05:21	0°♉	
	10686 May 09 03:36	0°♊	
evening rise	10686 May 24 05:34	18°♊55'57	
	10686 Jun 02 01:16	0°♋	
	10686 Jun 26 00:28	0°♌	
asc. node	10686 Jul 03 20:12	9°♌45'17	
	10686 Jul 20 03:23	0°♍	
	10686 Aug 13 12:21	0°♎	
	10686 Sep 07 06:54	0°♏	

	10686 Oct	02	17:39	0°♐		
desc. node	10686 Oct	23	16:50	23°♐43'42		
	10686 Oct	29	10:32	0°♑		
evening max el	10686 Nov	22	15:35	24°♑52'54	45°47'48	
	10686 Nov	28	02:39	0°♒		
greatest brilliancy	10686 Dec	31	20:28	23°♒08'14	-4.8m	
retrograde	10687 Jan	10	11:25	24°♒49'55		
evening set	10687 Jan	25	22:48	20°♒12'57		
inferior conj	10687 Jan	31	16:15	16°♒46'58	-3°10'27	
minimum elong	10687 Jan	31	23:00	16°♒36'25	3°08'05	
min. Earth dist.	10687 Feb	01	08:08	16°♒22'11	0.28235 AU	
morning rise	10687 Feb	06	22:31	13°♒01'31		
asc. node	10687 Feb	13	17:40	9°♒57'55		
direct	10687 Feb	21	21:17	8°♒36'27		
greatest brilliancy	10687 Mar	04	22:47	10°♒51'50	-4.8m	
	10687 Apr	01	16:37	0°♓		
morning max el	10687 Apr	12	23:37	10°♓45'45	46°35'52	
	10687 May	01	06:16	0°♈		
	10687 May	27	14:52	0°♉		
desc. node	10687 Jun	05	14:43	10°♉36'20		
	10687 Jun	21	19:15	0°♊		
	10687 Jul	16	10:43	0°♋		
	10687 Aug	09	20:38	0°♌		
	10687 Sep	03	04:44	0°♍		
asc. node	10687 Sep	26	09:08	28°♍35'50		
	10687 Sep	27	12:25	0°♎		
morning set	10687 Oct	15	07:39	21°♎57'58		
	10687 Oct	21	19:49	0°♏		
	10687 Nov	15	03:01	0°♐		
superior conj	10687 Nov	21	06:30	7°♐35'11	1°26'07	
minimum elong	10687 Nov	21	06:31	7°♐35'13	1°26'37	
max. Earth dist.	10687 Nov	21	21:16	8°♐20'45	1.73205 AU	
	10687 Dec	09	10:37	0°♑		
evening rise	10687 Dec	28	05:00	23°♑07'02		
	10688 Jan	02	19:16	0°♒		
desc. node	10688 Jan	16	01:38	16°♒18'30		
	10688 Jan	27	05:05	0°♓		
	10688 Feb	20	15:39	0°♈		
	10688 Mar	16	03:00	0°♉		
	10688 Apr	09	17:04	0°♊		
	10688 May	04	14:53	0°♋		
asc. node	10688 May	07	22:55	3°♋57'50		
	10688 May	30	06:46	0°♌		
	10688 Jun	26	18:21	0°♍		
evening max el	10688 Jun	30	04:11	3°♍27'37	46°44'35	
	10688 Jul	31	22:10	0°♎		
greatest brilliancy	10688 Aug	08	11:13	3°♎42'58	-4.8m	
retrograde	10688 Aug	19	11:50	5°♎58'34		
desc. node	10688 Aug	27	22:07	4°♎31'27		
evening set	10688 Sep	03	08:38	1°♎37'15		
	10688 Sep	06	04:36	30°℞♍		
min. Earth dist.	10688 Sep	08	21:20	28°♍21'33	0.27845 AU	
inferior conj	10688 Sep	09	15:04	27°♍54'13	-3°08'02	
minimum elong	10688 Sep	09	08:16	28°♍04'42	3°06'06	
morning rise	10688 Sep	15	08:36	24°♍30'14		
direct	10688 Sep	30	15:26	19°♍59'21		
greatest brilliancy	10688 Oct	10	06:29	21°♍40'45	-4.8m	
	10688 Oct	25	21:34	0°♎		
morning max el	10688 Nov	18	12:50	19°♎58'40	45°45'53	
	10688 Nov	28	15:38	0°♏		
asc. node	10688 Dec	18	21:31	21°♏33'24		
	10688 Dec	26	11:35	0°♐		
	10689 Jan	21	12:31	0°♑		
	10689 Feb	15	16:23	0°♒		
	10689 Mar	12	08:11	0°♓		
	10689 Apr	05	16:17	0°♈		
desc. node	10689 Apr	09	14:56	4°♈53'26		
	10689 Apr	29	18:55	0°♉		
morning set	10689 May	19	06:07	24°♉22'11		
	10689 May	23	17:50	0°♊		
	10689 Jun	16	15:04	0°♋		
superior conj	10689 Jun	28	10:46	14°♋50'39	-1°09'38	
minimum elong	10689 Jun	28	22:09	15°♋26'22	1°09'50	
max. Earth dist.	10689 Jun	30	04:07	17°♋00'26	1.71424 AU	
	10689 Jul	10	12:43	0°♌		
asc. node	10689 Jul	31	08:47	26°♌03'52		
	10689 Aug	03	12:28	0°♍		
evening rise	10689 Aug	07	10:06	4°♍51'57		
	10689 Aug	27	15:21	0°♎		
	10689 Sep	20	22:31	0°♏		
	10689 Oct	15	11:54	0°♐		
	10689 Nov	09	10:36	0°♑		
desc. node	10689 Nov	20	03:46	12°♑41'39		
	10689 Dec	04	22:55	0°♒		
	10689 Dec	31	08:23	0°♓		
	10690 Jan	28	12:39	0°♈		
evening max el	10690 Feb	02	09:59	4°♈50'42	46°11'26	
	10690 Mar	05	02:58	0°♉		
asc. node	10690 Mar	13	04:08	3°♉55'41		
greatest brilliancy	10690 Mar	14	01:41	4°♉15'22	-4.8m	
retrograde	10690 Mar	23	23:16	6°♉04'24		
evening set	10690 Apr	08	18:05	1°♉12'01		
	10690 Apr	10	19:15	30°℞♈		
inferior conj	10690 Apr	13	16:30	28°♈13'52	7°05'41	
minimum elong	10690 Apr	13	05:36	28°♈30'44	7°03'13	
min. Earth dist.	10690 Apr	13	14:29	28°♈16'58	0.27346 AU	
morning rise	10690 Apr	17	17:03	25°♈47'11		
direct	10690 May	04	12:53	20°♈19'06		
greatest brilliancy	10690 May	14	09:11	22°♈09'24	-4.9m	
	10690 May	28	16:47	0°♉		
morning max el	10690 Jun	24	01:28	23°♉12'48	46°58'36	
	10690 Jun	30	16:05	0°♊		
desc. node	10690 Jul	03	02:35	2°♊33'55		
	10690 Jul	27	21:27	0°♋		
	10690 Aug	22	15:12	0°♌		
	10690 Sep	16	18:59	0°♍		
	10690 Oct	11	15:54	0°♎		
asc. node	10690 Oct	23	22:22	14°♎53'34		
	10690 Nov	05	08:06	0°♏		
	10690 Nov	29	20:23	0°♐		
morning set	10690 Dec	23	02:03	28°♐34'42		
	10690 Dec	24	05:45	0°♑		
	10691 Jan	17	13:16	0°♒		
max. Earth dist.	10691 Jan	27	10:46	12°♒13'47	1.72876 AU	
superior conj	10691 Jan	29	04:46	14°♒23'36	0°33'58	
minimum elong	10691 Jan	29	12:01	14°♒46'02	0°34'04	
	10691 Feb	10	19:27	0°♓		
desc. node	10691 Feb	12	14:23	2°♓12'56		
	10691 Mar	07	00:07	0°♈		
evening rise	10691 Mar	08	17:17	2°♈07'50		
	10691 Mar	31	03:05	0°♉		
	10691 Apr	24	05:07	0°♊		
	10691 May	18	08:24	0°♋		
asc. node	10691 Jun	05	10:16	22°♋19'31		
	10691 Jun	11	16:17	0°♌		
	10691 Jul	06	09:19	0°♍		
	10691 Jul	31	19:18	0°♎		
	10691 Aug	27	16:51	0°♏		
evening max el	10691 Sep	10	07:21	13°♏57'27	46°06'57	
desc. node	10691 Sep	25	08:28	27°♏44'45		
	10691 Sep	28	02:26	0°♐		

greatest brilliancy	10691 Oct	19	05:54	12°♐56'20	-4.8m
retrograde	10691 Oct	29	16:43	14°♐55'19	
evening set	10691 Nov	17	00:25	8°♐38'19	
inferior conj	10691 Nov	20	05:50	6°♐37'36	-8°42'11
minimum elong	10691 Nov	20	05:35	6°♐37'58	8°41'41
min. Earth dist.	10691 Nov	20	02:13	6°♐43'18	0.29070 AU
morning rise	10691 Nov	23	10:49	4°♐37'39	
	10691 Dec	02	16:38	30°℞♏	
direct	10691 Dec	11	17:29	28°♏23'06	
	10691 Dec	21	03:11	0°♐	
greatest brilliancy	10691 Dec	21	24:00	0°♐17'54	-4.7m
asc. node	10692 Jan	16	08:51	16°♐34'56	
morning max el	10692 Jan	29	19:37	28°♐55'08	45°51'14
	10692 Jan	30	22:06	0°♑	
	10692 Feb	28	05:19	0°♒	
	10692 Mar	25	06:23	0°♓	
	10692 Apr	19	07:54	0°♈	
desc. node	10692 May	07	04:03	21°♈46'33	
	10692 May	13	20:31	0°♉	
	10692 Jun	07	01:34	0°♊	
	10692 Jul	01	02:49	0°♋	
	10692 Jul	25	03:11	0°♌	
morning set	10692 Aug	01	21:41	9°♌42'08	
	10692 Aug	18	04:25	0°♍	
asc. node	10692 Aug	27	21:42	12°♍06'10	
superior conj	10692 Sep	09	16:31	27°♍59'41	0°30'25
minimum elong	10692 Sep	09	09:52	27°♍39'05	0°30'02
	10692 Sep	11	07:16	0°♎	
max. Earth dist.	10692 Sep	12	04:19	1°♎05'23	1.72464 AU
	10692 Oct	05	12:00	0°♏	
evening rise	10692 Oct	17	00:52	14°♏15'27	
	10692 Oct	29	19:16	0°♐	
	10692 Nov	23	06:15	0°♑	
desc. node	10692 Dec	17	15:21	29°♑39'42	
	10692 Dec	17	22:03	0°♒	
	10693 Jan	11	19:25	0°♓	
	10693 Feb	05	23:22	0°♈	
	10693 Mar	03	14:04	0°♉	
	10693 Mar	30	05:16	0°♊	
asc. node	10693 Apr	09	14:23	11°♊03'50	
evening max el	10693 Apr	16	04:06	17°♊46'56	46°47'47
	10693 Apr	29	00:09	0°♋	
greatest brilliancy	10693 May	26	20:13	18°♋38'40	-4.9m
retrograde	10693 Jun	05	12:06	20°♋24'52	
evening set	10693 Jun	22	12:13	14°♋51'46	
inferior conj	10693 Jun	26	05:08	12°♋37'25	7°36'07
minimum elong	10693 Jun	26	15:43	12°♋21'10	7°33'37
min. Earth dist.	10693 Jun	26	12:27	12°♋26'11	0.27100 AU
morning rise	10693 Jun	30	19:10	9°♋52'14	
direct	10693 Jul	16	21:06	4°♋49'49	
greatest brilliancy	10693 Jul	26	20:41	6°♋41'03	-4.9m
desc. node	10693 Jul	30	13:26	8°♋12'07	
	10693 Aug	28	22:02	0°♌	
morning max el	10693 Sep	04	19:32	6°♌36'36	46°26'31
	10693 Sep	27	06:36	0°♍	
	10693 Oct	24	01:28	0°♎	
	10693 Nov	18	19:33	0°♏	
asc. node	10693 Nov	20	11:16	1°♏57'17	
	10693 Dec	13	23:15	0°♐	
	10694 Jan	07	17:20	0°♑	
	10694 Feb	01	04:58	0°♒	
	10694 Feb	25	12:09	0°♓	
morning set	10694 Mar	02	23:37	6°♓47'19	
desc. node	10694 Mar	12	03:29	18°♓09'51	
	10694 Mar	21	15:46	0°♈	
max. Earth dist.	10694 Apr	08	13:18	22°♈20'11	1.71740 AU
superior conj	10694 Apr	11	16:32	26°♈15'26	-1°05'49
minimum elong	10694 Apr	11	05:02	25°♈39'28	1°05'38
	10694 Apr	14	16:18	0°♉	
	10694 May	08	14:38	0°♊	
evening rise	10694 May	21	16:39	16°♊25'24	
	10694 Jun	01	12:23	0°♋	
	10694 Jun	25	11:43	0°♌	
asc. node	10694 Jul	02	22:07	9°♌16'05	
	10694 Jul	19	14:49	0°♍	
	10694 Aug	13	00:08	0°♎	
	10694 Sep	06	19:19	0°♏	
	10694 Oct	02	07:20	0°♐	
desc. node	10694 Oct	22	18:51	23°♐06'14	
	10694 Oct	29	03:03	0°♑	
evening max el	10694 Nov	20	06:49	22°♑40'22	45°47'42
	10694 Nov	28	04:35	0°♒	
greatest brilliancy	10694 Dec	29	10:25	20°♒53'18	-4.7m
retrograde	10695 Jan	08	02:41	22°♒35'51	
evening set	10695 Jan	23	16:06	17°♒55'08	
inferior conj	10695 Jan	29	07:23	14°♒31'59	-3°30'15
minimum elong	10695 Jan	29	14:44	14°♒20'32	3°27'44
min. Earth dist.	10695 Jan	29	23:18	14°♒07'11	0.28284 AU
morning rise	10695 Feb	04	12:46	10°♒48'02	
asc. node	10695 Feb	12	19:34	7°♒16'41	
direct	10695 Feb	19	13:18	6°♒20'55	
greatest brilliancy	10695 Mar	02	14:35	8°♒36'39	-4.8m
	10695 Apr	01	19:43	0°♓	
morning max el	10695 Apr	10	15:41	8°♓30'48	46°34'21
	10695 Apr	30	23:31	0°♈	
	10695 May	27	05:09	0°♉	
desc. node	10695 Jun	04	16:46	10°♉01'47	
	10695 Jun	21	08:10	0°♊	
	10695 Jul	15	22:52	0°♋	
	10695 Aug	09	08:16	0°♌	
	10695 Sep	02	16:01	0°♍	
asc. node	10695 Sep	25	11:03	28°♍07'43	
	10695 Sep	26	23:26	0°♎	
morning set	10695 Oct	12	23:59	19°♎46'43	
	10695 Oct	21	06:39	0°♏	
	10695 Nov	14	13:45	0°♐	
superior conj	10695 Nov	18	23:55	5°♐27'40	1°26'04
minimum elong	10695 Nov	18	23:11	5°♐25'24	1°26'33
max. Earth dist.	10695 Nov	19	18:48	6°♐25'57	1.73197 AU
	10695 Dec	08	21:22	0°♑	
evening rise	10695 Dec	25	21:35	20°♑57'03	
	10696 Jan	02	06:09	0°♒	
desc. node	10696 Jan	15	03:30	15°♒50'27	
	10696 Jan	26	16:13	0°♓	
	10696 Feb	20	03:07	0°♈	
	10696 Mar	15	14:55	0°♉	
	10696 Apr	09	05:39	0°♊	
	10696 May	04	04:34	0°♋	
asc. node	10696 May	07	01:00	3°♋22'54	
	10696 May	29	22:38	0°♌	
	10696 Jun	26	15:55	0°♍	
evening max el	10696 Jun	27	19:53	1°♍10'29	46°45'32
	10696 Aug	02	20:49	0°♎	
greatest brilliancy	10696 Aug	06	02:17	1°♎24'20	-4.8m
retrograde	10696 Aug	17	03:05	3°♎39'40	
desc. node	10696 Aug	27	00:05	1°♎40'36	
	10696 Aug	30	16:09	30°℞♍	
evening set	10696 Aug	31	22:13	29°♍20'15	
min. Earth dist.	10696 Sep	06	11:58	26°♍02'55	0.27790 AU
inferior conj	10696 Sep	07	05:20	25°♍36'07	-2°47'01
minimum elong	10696 Sep	06	23:13	25°♍45'33	2°45'17
morning rise	10696 Sep	13	01:00	22°♍09'29	

direct	10696 Sep 28 05:55	17°♍42'08	
greatest brilliancy	10696 Oct 07 19:55	19°♍23'04	-4.8m
	10696 Oct 26 15:21	0°♎	
morning max el	10696 Nov 16 03:41	17°♎44'40	45°46'38
	10696 Nov 28 10:45	0°♏	
asc. node	10696 Dec 17 23:27	20°♏56'06	
	10696 Dec 26 02:10	0°♐	
	10697 Jan 21 01:18	0°♑	
	10697 Feb 15 04:17	0°♒	
	10697 Mar 11 19:40	0°♓	
	10697 Apr 05 03:32	0°♈	
desc. node	10697 Apr 08 16:54	4°♈24'46	
	10697 Apr 29 06:01	0°♉	
morning set	10697 May 16 16:59	21°♉51'18	
	10697 May 23 04:49	0°♊	
	10697 Jun 16 01:59	0°♋	
superior conj	10697 Jun 25 22:22	12°♋22'07	-1°11'56
minimum elong	10697 Jun 26 09:26	12°♋56'54	1°12'10
max. Earth dist.	10697 Jun 27 15:02	14°♋29'47	1.71400 AU
	10697 Jul 09 23:37	0°♌	
asc. node	10697 Jul 30 10:35	25°♌35'25	
	10697 Aug 02 23:23	0°♍	
evening rise	10697 Aug 04 23:19	2°♍29'29	
	10697 Aug 27 02:21	0°♎	
	10697 Sep 20 09:40	0°♏	
	10697 Oct 14 23:22	0°♐	
	10697 Nov 08 22:41	0°♑	
desc. node	10697 Nov 19 05:48	12°♑10'54	
	10697 Dec 04 12:10	0°♒	
	10697 Dec 30 23:57	0°♓	
	10698 Jan 28 10:13	0°♈	
evening max el	10698 Jan 30 23:59	2°♈31'47	46°09'57
	10698 Mar 07 02:37	0°♉	
greatest brilliancy	10698 Mar 11 15:13	1°♉53'17	-4.8m
asc. node	10698 Mar 12 06:07	2°♉05'59	
retrograde	10698 Mar 21 11:52	3°♉41'29	
	10698 Apr 04 03:25	30°℞♈	
evening set	10698 Apr 06 03:43	28°♈54'39	
inferior conj	10698 Apr 11 05:55	25°♈51'00	6°50'03
minimum elong	10698 Apr 10 18:56	26°♈08'02	6°47'30
min. Earth dist.	10698 Apr 11 04:22	25°♈53'24	0.27359 AU
morning rise	10698 Apr 15 10:01	23°♈18'50	
direct	10698 May 02 02:18	17°♈55'55	
greatest brilliancy	10698 May 11 23:55	19°♈46'55	-4.9m
	10698 May 29 12:39	0°♉	
morning max el	10698 Jun 21 13:49	20°♉46'03	46°58'48
	10698 Jun 30 12:10	0°♊	
desc. node	10698 Jul 02 04:26	1°♊46'55	
	10698 Jul 27 12:50	0°♋	
	10698 Aug 22 04:35	0°♌	
	10698 Sep 16 07:15	0°♍	
	10698 Oct 11 03:28	0°♎	
asc. node	10698 Oct 23 00:20	14°♎25'06	
	10698 Nov 04 19:12	0°♏	
	10698 Nov 29 07:12	0°♐	
morning set	10698 Dec 20 19:14	26°♐26'53	
	10698 Dec 23 16:25	0°♑	
	10699 Jan 16 23:54	0°♒	
max. Earth dist.	10699 Jan 25 03:04	10°♒03'01	1.72905 AU
superior conj	10699 Jan 26 20:38	12°♒11'28	0°37'06
minimum elong	10699 Jan 27 04:23	12°♒35'26	0°37'11
	10699 Feb 10 06:08	0°♓	
desc. node	10699 Feb 11 16:14	1°♓45'36	
evening rise	10699 Mar 06 07:47	29°♓50'17	
	10699 Mar 06 10:54	0°♈	
	10699 Mar 30 14:02	0°♉	
	10699 Apr 23 16:19	0°♊	
	10699 May 17 19:57	0°♋	
asc. node	10699 Jun 04 12:10	21°♋48'49	
	10699 Jun 11 04:19	0°♌	
	10699 Jul 05 22:09	0°♍	
	10699 Jul 31 09:40	0°♎	
	10699 Aug 27 10:57	0°♏	
evening max el	10699 Sep 07 21:21	11°♏40'19	46°08'15
desc. node	10699 Sep 24 10:30	26°♏44'07	
	10699 Sep 28 13:25	0°♐	
greatest brilliancy	10699 Oct 16 21:22	10°♐45'29	-4.8m
retrograde	10699 Oct 27 08:23	12°♐45'15	
evening set	10699 Nov 14 15:28	6°♐29'44	
inferior conj	10699 Nov 17 21:57	4°♐27'32	-8°41'35
minimum elong	10699 Nov 17 20:54	4°♐29'11	8°41'06
min. Earth dist.	10699 Nov 17 17:31	4°♐34'32	0.29059 AU
morning rise	10699 Nov 21 02:23	2°♐28'26	
	10699 Nov 25 10:37	30°℞♏	
direct	10699 Dec 09 08:50	26°♏13'16	
greatest brilliancy	10699 Dec 19 15:38	28°♏07'52	-4.7m
	10699 Dec 24 02:34	0°♐	
asc. node	10700 Jan 15 10:42	15°♐37'04	
morning max el	10700 Jan 27 10:09	26°♐40'27	45°50'21
	10700 Jan 30 19:03	0°♑	
	10700 Feb 27 20:27	0°♒	
	10700 Mar 25 19:25	0°♓	
	10700 Apr 19 19:57	0°♈	
desc. node	10700 May 07 06:02	21°♈16'57	
	10700 May 14 08:01	0°♉	
	10700 Jun 07 12:46	0°♊	
	10700 Jul 01 13:49	0°♋	
	10700 Jul 25 14:01	0°♌	
morning set	10700 Jul 31 11:07	7°♌20'37	
	10700 Aug 18 15:06	0°♍	
asc. node	10700 Aug 27 23:39	11°♍39'07	
superior conj	10700 Sep 08 07:25	25°♍44'04	0°27'05
minimum elong	10700 Sep 08 01:25	25°♍25'25	0°26'42
max. Earth dist.	10700 Sep 10 18:11	28°♍46'35	1.72424 AU
	10700 Sep 11 17:50	0°♎	
	10700 Oct 05 22:32	0°♏	
evening rise	10700 Oct 15 17:31	12°♏06'04	
	10700 Oct 30 05:54	0°♐	
	10700 Nov 23 17:05	0°♑	
desc. node	10700 Dec 17 17:13	29°♑11'28	
	10700 Dec 18 09:15	0°♒	
	10701 Jan 12 07:11	0°♓	
	10701 Feb 06 12:04	0°♈	
	10701 Mar 04 04:26	0°♉	
	10701 Mar 30 23:14	0°♊	
asc. node	10701 Apr 09 16:27	10°♊16'14	
evening max el	10701 Apr 14 16:46	15°♊22'13	46°46'58
	10701 Apr 30 06:56	0°♋	
greatest brilliancy	10701 May 25 09:23	16°♋14'10	-4.9m
retrograde	10701 Jun 04 01:15	18°♋00'37	
evening set	10701 Jun 21 04:40	12°♋21'49	
inferior conj	10701 Jun 24 17:59	10°♋12'57	7°49'23
minimum elong	10701 Jun 25 04:13	9°♋57'15	7°47'04
min. Earth dist.	10701 Jun 25 01:25	10°♋01'34	0.27109 AU
morning rise	10701 Jun 29 03:44	7°♋34'09	
direct	10701 Jul 15 09:56	2°♋24'52	
greatest brilliancy	10701 Jul 25 09:34	4°♋16'39	-4.9m
desc. node	10701 Jul 30 15:25	6°♋32'44	
	10701 Aug 29 23:37	0°♌	
morning max el	10701 Sep 03 10:05	4°♌17'57	46°28'13
	10701 Sep 27 23:20	0°♍	

	10701 Oct 24	15:10	0°♎	
	10701 Nov 19	07:46	0°♏	
asc. node	10701 Nov 20	13:11	1°♏26'59	
	10701 Dec 14	10:39	0°♐	
	10702 Jan 08	04:17	0°♑	
	10702 Feb 01	15:41	0°♒	
	10702 Feb 25	22:44	0°♓	
morning set	10702 Mar 01	13:54	4°♓30'00	
desc. node	10702 Mar 12	05:29	17°♓43'12	
	10702 Mar 22	02:20	0°♈	
max. Earth dist.	10702 Apr 07	02:54	19°♈59'36	1.71776 AU
superior conj	10702 Apr 10	04:58	23°♈51'07	-1°03'13
minimum elong	10702 Apr 09	17:27	23°♈15'05	1°03'01
	10702 Apr 15	02:53	0°♉	
	10702 May 09	01:15	0°♊	
evening rise	10702 May 20	04:10	13°♊57'33	
	10702 Jun 01	23:05	0°♋	
	10702 Jun 25	22:33	0°♌	
asc. node	10702 Jul 02	23:58	8°♌47'54	
	10702 Jul 20	01:53	0°♍	
	10702 Aug 13	11:35	0°♎	
	10702 Sep 07	07:27	0°♏	
	10702 Oct 02	20:47	0°♐	
desc. node	10702 Oct 22	20:53	22°♐29'31	
	10702 Oct 29	19:31	0°♑	
evening max el	10702 Nov 18	22:39	20°♑30'29	45°47'47
	10702 Nov 29	07:29	0°♒	
greatest brilliancy	10702 Dec 28	00:43	18°♒40'30	-4.7m
retrograde	10703 Jan 06	18:02	20°♒23'27	
evening set	10703 Jan 22	09:43	15°♒39'10	
inferior conj	10703 Jan 27	22:40	12°♒18'49	-3°49'31
minimum elong	10703 Jan 28	06:34	12°♒06'30	3°46'52
min. Earth dist.	10703 Jan 28	14:25	11°♒54'16	0.28331 AU
morning rise	10703 Feb 03	02:57	8°♒36'27	
asc. node	10703 Feb 12	21:38	4°♒42'13	
direct	10703 Feb 18	05:39	4°♒07'24	
greatest brilliancy	10703 Mar 01	05:58	6°♒22'35	-4.8m
	10703 Apr 02	20:47	0°♓	
morning max el	10703 Apr 09	07:35	6°♓16'52	46°32'46
	10703 May 01	15:57	0°♈	
	10703 May 27	18:51	0°♉	
desc. node	10703 Jun 04	18:35	9°♉28'02	
	10703 Jun 21	20:34	0°♊	
	10703 Jul 16	10:30	0°♋	
	10703 Aug 09	19:25	0°♌	
	10703 Sep 03	02:50	0°♍	
asc. node	10703 Sep 25	13:01	27°♍41'00	
	10703 Sep 27	10:02	0°♎	
morning set	10703 Oct 11	16:13	17°♎36'17	
	10703 Oct 21	17:06	0°♏	
	10703 Nov 15	00:07	0°♐	
superior conj	10703 Nov 17	17:10	3°♐20'44	1°25'53
minimum elong	10703 Nov 17	15:42	3°♐16'13	1°26'22
max. Earth dist.	10703 Nov 18	15:24	4°♐29'22	1.73185 AU
	10703 Dec 09	07:44	0°♑	
evening rise	10703 Dec 24	14:00	18°♑47'41	
	10704 Jan 02	16:38	0°♒	
desc. node	10704 Jan 15	05:21	15°♒23'31	
	10704 Jan 27	02:57	0°♓	
	10704 Feb 20	14:12	0°♈	
	10704 Mar 16	02:30	0°♉	
	10704 Apr 09	17:55	0°♊	
	10704 May 04	17:59	0°♋	
asc. node	10704 May 07	02:55	2°♋48'26	
	10704 May 30	14:18	0°♌	
evening max el	10704 Jun 26	11:23	28°♌54'07	46°46'27
	10704 Jun 27	13:44	0°♍	
greatest brilliancy	10704 Aug 04	17:58	29°♍08'09	-4.8m
	10704 Aug 07	05:15	0°♎	
retrograde	10704 Aug 15	18:04	1°♎22'26	
	10704 Aug 23	23:18	30°℞♍	
desc. node	10704 Aug 27	02:06	28°♍46'57	
evening set	10704 Aug 30	12:11	27°♍04'50	
min. Earth dist.	10704 Sep 05	02:58	23°♍45'46	0.27737 AU
inferior conj	10704 Sep 05	19:47	23°♍19'50	-2°25'53
minimum elong	10704 Sep 05	14:22	23°♍28'11	2°24'21
morning rise	10704 Sep 11	17:22	19°♍50'34	
direct	10704 Sep 26	20:27	15°♍26'48	
greatest brilliancy	10704 Oct 06	09:45	17°♍07'13	-4.8m
	10704 Oct 28	03:56	0°♎	
morning max el	10704 Nov 14	17:48	15°♎29'54	45°47'17
	10704 Nov 29	04:56	0°♏	
asc. node	10704 Dec 18	01:19	20°♏19'53	
	10704 Dec 26	16:14	0°♐	
	10705 Jan 21	13:40	0°♑	
	10705 Feb 15	15:49	0°♒	
	10705 Mar 12	06:46	0°♓	
	10705 Apr 05	14:24	0°♈	
desc. node	10705 Apr 08	18:46	3°♈56'53	
	10705 Apr 29	16:46	0°♉	
morning set	10705 May 15	03:52	19°♉21'26	
	10705 May 23	15:30	0°♊	
	10705 Jun 16	12:37	0°♋	
superior conj	10705 Jun 24	10:07	9°♋55'01	-1°14'05
minimum elong	10705 Jun 24	20:49	10°♋28'38	1°14'22
max. Earth dist.	10705 Jun 25	22:43	11°♋49'53	1.71376 AU
	10705 Jul 10	10:14	0°♌	
asc. node	10705 Jul 30	12:34	25°♌08'29	
	10705 Aug 03	09:59	0°♍	
evening rise	10705 Aug 03	12:34	0°♍08'02	
	10705 Aug 27	13:00	0°♎	
	10705 Sep 20	20:29	0°♏	
	10705 Oct 15	10:33	0°♐	
	10705 Nov 09	10:33	0°♑	
desc. node	10705 Nov 19	07:37	11°♑40'14	
	10705 Dec 05	01:16	0°♒	
	10705 Dec 31	15:32	0°♓	
	10706 Jan 29	08:21	0°♈	
evening max el	10706 Jan 29	13:16	0°♈12'00	46°08'36
greatest brilliancy	10706 Mar 10	05:00	29°♈32'28	-4.8m
	10706 Mar 11	14:31	0°♉	
asc. node	10706 Mar 12	08:10	0°♉12'59	
retrograde	10706 Mar 20	00:35	1°♉20'02	
	10706 Mar 28	03:43	30°℞♈	
evening set	10706 Apr 04	13:39	26°♈38'05	
inferior conj	10706 Apr 09	19:30	23°♈29'28	6°33'48
minimum elong	10706 Apr 09	08:29	23°♈46'33	6°31'09
min. Earth dist.	10706 Apr 09	18:31	23°♈30'59	0.27375 AU
morning rise	10706 Apr 14	03:06	20°♈52'00	
direct	10706 Apr 30	15:30	15°♈33'48	
greatest brilliancy	10706 May 10	15:09	17°♈26'09	-4.9m
	10706 May 31	03:01	0°♉	
morning max el	10706 Jun 20	02:26	18°♉20'39	46°58'55
	10706 Jul 01	07:24	0°♊	
desc. node	10706 Jul 02	06:24	1°♊01'35	
	10706 Jul 28	03:49	0°♋	
	10706 Aug 22	17:41	0°♌	
	10706 Sep 16	19:17	0°♍	
	10706 Oct 11	14:48	0°♎	
asc. node	10706 Oct 23	02:12	13°♎57'02	
	10706 Nov 05	06:05	0°♏	

	10706	Nov	29	17:49	0°♐	
morning set	10706	Dec	19	12:30	24°♐19'46	
	10706	Dec	24	02:56	0°♑	
	10707	Jan	17	10:25	0°♒	
max. Earth dist.	10707	Jan	23	20:37	7°♒56'21	1.72937 AU
superior conj	10707	Jan	25	12:33	9°♒59'47	0°40'09
minimum elong	10707	Jan	25	20:46	10°♒25'09	0°40'15
	10707	Feb	10	16:43	0°♓	
desc. node	10707	Feb	11	18:15	1°♓19'01	
evening rise	10707	Mar	04	22:17	27°♓33'11	
	10707	Mar	06	21:37	0°♈	
	10707	Mar	31	00:55	0°♉	
	10707	Apr	24	03:27	0°♊	
	10707	May	18	07:27	0°♋	
asc. node	10707	Jun	04	14:03	21°♋18'15	
	10707	Jun	11	16:21	0°♌	
	10707	Jul	06	11:02	0°♍	
	10707	Aug	01	00:12	0°♎	
	10707	Aug	28	05:30	0°♏	
evening max el	10707	Sep	06	11:39	9°♏24'01	46°09'40
desc. node	10707	Sep	24	12:33	25°♏42'10	
	10707	Sep	30	04:06	0°♐	
greatest brilliancy	10707	Oct	15	12:19	8°♐34'16	-4.8m
retrograde	10707	Oct	26	00:34	10°♐35'41	
evening set	10707	Nov	13	06:12	4°♐21'58	
inferior conj	10707	Nov	16	14:08	2°♐17'49	-8°40'14
minimum elong	10707	Nov	16	12:17	2°♐20'44	8°39'44
min. Earth dist.	10707	Nov	16	08:34	2°♐26'34	0.29046 AU
morning rise	10707	Nov	19	18:24	0°♐19'11	
	10707	Nov	20	07:05	30°℞♏	
direct	10707	Dec	08	00:24	24°♏03'46	
greatest brilliancy	10707	Dec	18	07:08	25°♏58'13	-4.7m
	10707	Dec	26	20:32	0°♐	
asc. node	10708	Jan	15	12:48	14°♐41'13	
morning max el	10708	Jan	26	01:29	24°♐27'54	45°49'24
	10708	Jan	31	15:17	0°♑	
	10708	Feb	28	11:27	0°♒	
	10708	Mar	25	08:29	0°♓	
	10708	Apr	19	08:03	0°♈	
desc. node	10708	May	06	07:54	20°♈46'38	
	10708	May	13	19:36	0°♉	
	10708	Jun	07	00:02	0°♊	
	10708	Jul	01	00:53	0°♋	
	10708	Jul	25	00:56	0°♌	
morning set	10708	Jul	29	00:23	4°♌58'08	
	10708	Aug	18	01:54	0°♍	
asc. node	10708	Aug	27	01:36	11°♍11'36	
superior conj	10708	Sep	05	22:10	23°♍27'24	0°23'42
minimum elong	10708	Sep	05	16:51	23°♍10'50	0°23'18
max. Earth dist.	10708	Sep	08	07:56	26°♍26'51	1.72387 AU
	10708	Sep	11	04:34	0°♎	
	10708	Oct	05	09:16	0°♏	
evening rise	10708	Oct	13	10:13	9°♏56'20	
	10708	Oct	29	16:42	0°♐	
	10708	Nov	23	04:04	0°♑	
desc. node	10708	Dec	16	19:12	28°♑43'11	
	10708	Dec	17	20:36	0°♒	
	10709	Jan	11	19:09	0°♓	
	10709	Feb	06	01:04	0°♈	
	10709	Mar	03	19:16	0°♉	
	10709	Mar	30	18:01	0°♊	
asc. node	10709	Apr	08	18:22	9°♊26'29	
evening max el	10709	Apr	12	06:29	12°♊59'17	46°46'09
	10709	Apr	30	16:50	0°♋	
greatest brilliancy	10709	May	22	22:07	13°♋48'18	-4.9m
retrograde	10709	Jun	01	14:46	15°♋35'19	
evening set	10709	Jun	18	21:02	9°♋51'00	
inferior conj	10709	Jun	22	06:47	7°♋47'23	8°01'47
minimum elong	10709	Jun	22	16:35	7°♋32'23	7°59'40
min. Earth dist.	10709	Jun	22	13:52	7°♋36'33	0.27116 AU
morning rise	10709	Jun	26	12:07	5°♋15'13	
	10709	Jul	12	03:15	30°℞♊	
direct	10709	Jul	12	23:14	29°♊59'09	
	10709	Jul	13	19:17	0°♋	
greatest brilliancy	10709	Jul	22	21:41	1°♋50'33	-4.9m
desc. node	10709	Jul	29	17:31	4°♋56'23	
	10709	Aug	30	00:12	0°♌	
morning max el	10709	Sep	01	00:51	1°♌59'04	46°29'46
	10709	Sep	27	16:01	0°♍	
	10709	Oct	24	05:01	0°♎	
	10709	Nov	18	20:13	0°♏	
asc. node	10709	Nov	19	15:02	0°♏55'43	
	10709	Dec	13	22:19	0°♐	
	10710	Jan	07	15:29	0°♑	
	10710	Feb	01	02:38	0°♒	
	10710	Feb	25	09:36	0°♓	
morning set	10710	Feb	27	04:27	2°♓12'43	
desc. node	10710	Mar	11	07:22	17°♓15'15	
	10710	Mar	21	13:12	0°♈	
max. Earth dist.	10710	Apr	04	15:12	17°♈33'59	1.71816 AU
superior conj	10710	Apr	07	17:22	21°♈25'40	-1°00'31
minimum elong	10710	Apr	07	05:55	20°♈49'55	1°00'16
	10710	Apr	14	13:49	0°♉	
	10710	May	08	12:16	0°♊	
evening rise	10710	May	17	15:21	11°♊27'23	
	10710	Jun	01	10:11	0°♋	
	10710	Jun	25	09:46	0°♌	
asc. node	10710	Jul	02	01:58	8°♌18'57	
	10710	Jul	19	13:21	0°♍	
	10710	Aug	12	23:28	0°♎	
	10710	Sep	06	20:04	0°♏	
	10710	Oct	02	10:48	0°♐	
desc. node	10710	Oct	21	22:46	21°♐50'43	
	10710	Oct	29	12:47	0°♑	
evening max el	10710	Nov	16	14:30	18°♑19'21	45°47'50
	10710	Nov	29	12:45	0°♒	
greatest brilliancy	10710	Dec	25	15:38	16°♒27'23	-4.7m
retrograde	10711	Jan	04	09:04	18°♒09'58	
evening set	10711	Jan	20	03:27	13°♒22'18	
inferior conj	10711	Jan	25	14:01	10°♒04'50	-4°08'17
minimum elong	10711	Jan	25	22:23	9°♒51'45	4°05'33
min. Earth dist.	10711	Jan	26	05:41	9°♒40'21	0.28374 AU
morning rise	10711	Jan	31	16:54	6°♒24'09	
asc. node	10711	Feb	11	23:36	2°♒11'55	
direct	10711	Feb	15	21:46	1°♒53'14	
greatest brilliancy	10711	Feb	26	21:11	4°♒07'25	-4.8m
	10711	Apr	02	21:03	0°♓	
morning max el	10711	Apr	06	22:28	3°♓59'22	46°31'04
	10711	May	01	08:30	0°♈	
	10711	May	27	08:52	0°♉	
desc. node	10711	Jun	03	20:33	8°♉53'31	
	10711	Jun	21	09:22	0°♊	
	10711	Jul	15	22:35	0°♋	
	10711	Aug	09	07:02	0°♌	
	10711	Sep	02	14:07	0°♍	
asc. node	10711	Sep	24	14:49	27°♍12'28	
	10711	Sep	26	21:04	0°♎	
morning set	10711	Oct	09	08:11	15°♎23'41	
	10711	Oct	21	03:58	0°♏	
	10711	Nov	14	10:56	0°♐	

superior conj	10711 Nov 15	10:20	1°♐12'15	1°25'35
minimum elong	10711 Nov 15	08:09	1°♐05'30	1°26'03
max. Earth dist.	10711 Nov 16	10:20	2°♐26'19	1.73172 AU
	10711 Dec 08	18:34	0°♑	
evening rise	10711 Dec 22	06:27	16°♑37'01	
	10712 Jan 02	03:36	0°♒	
desc. node	10712 Jan 14	07:23	14°♒55'50	
	10712 Jan 26	14:08	0°♓	
	10712 Feb 20	01:43	0°♈	
	10712 Mar 15	14:29	0°♉	
	10712 Apr 09	06:37	0°♊	
	10712 May 04	07:56	0°♋	
asc. node	10712 May 06	04:50	2°♋12'26	
	10712 May 30	06:47	0°♌	
evening max el	10712 Jun 24	01:48	26°♌33'14	46°47'09
	10712 Jun 27	13:12	0°♍	
greatest brilliancy	10712 Aug 02	10:09	26°♍50'09	-4.8m
retrograde	10712 Aug 13	08:25	29°♍02'40	
desc. node	10712 Aug 26	04:05	25°♍46'10	
evening set	10712 Aug 28	02:07	24°♍46'36	
inferior conj	10712 Sep 03	10:00	21°♍01'11	-2°04'14
minimum elong	10712 Sep 03	05:21	21°♍08'23	2°02'56
min. Earth dist.	10712 Sep 02	18:11	21°♍25'38	0.27685 AU
morning rise	10712 Sep 09	09:21	17°♍29'18	
direct	10712 Sep 24	10:07	13°♍08'59	
greatest brilliancy	10712 Oct 03	23:54	14°♍49'27	-4.8m
	10712 Oct 28	14:01	0°♎	
morning max el	10712 Nov 12	06:56	13°♎11'00	45°48'04
	10712 Nov 28	23:12	0°♏	
asc. node	10712 Dec 17	03:24	19°♏43'10	
	10712 Dec 26	06:38	0°♐	
	10713 Jan 21	02:25	0°♑	
	10713 Feb 15	03:45	0°♒	
	10713 Mar 11	18:16	0°♓	
	10713 Apr 05	01:39	0°♈	
desc. node	10713 Apr 07	20:39	3°♈27'53	
	10713 Apr 29	03:51	0°♉	
morning set	10713 May 12	15:00	16°♉51'18	
	10713 May 23	02:30	0°♊	
	10713 Jun 15	23:36	0°♋	
superior conj	10713 Jun 21	21:57	7°♋27'02	-1°16'06
minimum elong	10713 Jun 22	08:12	7°♋59'14	1°16'25
max. Earth dist.	10713 Jun 23	03:55	9°♋01'06	1.71360 AU
	10713 Jul 09	21:14	0°♌	
asc. node	10713 Jul 29	14:30	24°♌40'08	
evening rise	10713 Aug 01	01:30	27°♌44'14	
	10713 Aug 02	21:01	0°♍	
	10713 Aug 27	00:07	0°♎	
	10713 Sep 20	07:47	0°♏	
	10713 Oct 14	22:13	0°♐	
	10713 Nov 08	22:55	0°♑	
desc. node	10713 Nov 18	09:40	11°♑08'48	
	10713 Dec 04	14:56	0°♒	
	10713 Dec 31	07:51	0°♓	
evening max el	10714 Jan 27	02:19	27°♓50'32	46°07'21
	10714 Jan 29	07:58	0°♈	
greatest brilliancy	10714 Mar 07	18:37	27°♈10'26	-4.8m
asc. node	10714 Mar 11	10:06	28°♈14'20	
retrograde	10714 Mar 17	13:43	28°♈57'58	
evening set	10714 Apr 01	23:49	24°♈20'15	
inferior conj	10714 Apr 07	09:07	21°♈07'09	6°16'56
minimum elong	10714 Apr 06	22:09	21°♈24'08	6°14'12
min. Earth dist.	10714 Apr 07	08:40	21°♈07'52	0.27388 AU
morning rise	10714 Apr 11	20:13	18°♈24'41	
direct	10714 Apr 28	04:45	13°♈10'52	
greatest brilliancy	10714 May 08	06:21	15°♈04'51	-4.9m
	10714 May 31	13:59	0°♉	
morning max el	10714 Jun 17	15:54	15°♉56'51	46°59'05
desc. node	10714 Jul 01	08:30	0°♊16'39	
	10714 Jul 01	02:19	0°♊	
	10714 Jul 27	18:48	0°♋	
	10714 Aug 22	06:56	0°♌	
	10714 Sep 16	07:33	0°♍	
	10714 Oct 11	02:26	0°♎	
asc. node	10714 Oct 22	04:06	13°♎28'03	
	10714 Nov 04	17:17	0°♏	
	10714 Nov 29	04:45	0°♐	
morning set	10714 Dec 17	05:34	22°♐11'05	
	10714 Dec 23	13:45	0°♑	
	10715 Jan 16	21:13	0°♒	
max. Earth dist.	10715 Jan 21	16:09	5°♒55'02	1.72966 AU
superior conj	10715 Jan 23	04:21	7°♒46'53	0°43'09
minimum elong	10715 Jan 23	12:58	8°♒13'32	0°43'16
	10715 Feb 10	03:35	0°♓	
desc. node	10715 Feb 10	20:06	0°♓51'09	
evening rise	10715 Mar 02	12:50	25°♓15'28	
	10715 Mar 06	08:35	0°♈	
	10715 Mar 30	12:04	0°♉	
	10715 Apr 23	14:50	0°♊	
	10715 May 17	19:09	0°♋	
asc. node	10715 Jun 03	16:07	20°♋47'48	
	10715 Jun 11	04:32	0°♌	
	10715 Jul 06	00:04	0°♍	
	10715 Jul 31	14:59	0°♎	
	10715 Aug 28	00:43	0°♏	
evening max el	10715 Sep 04	02:44	7°♏09'12	46°10'56
desc. node	10715 Sep 23	14:26	24°♏37'42	
	10715 Oct 01	00:21	0°♐	
greatest brilliancy	10715 Oct 13	02:46	6°♐21'41	-4.8m
retrograde	10715 Oct 23	17:08	8°♐25'10	
evening set	10715 Nov 10	20:31	2°♐13'40	
inferior conj	10715 Nov 14	06:11	0°♐07'04	-8°38'08
minimum elong	10715 Nov 14	03:34	0°♐11'11	8°37'34
min. Earth dist.	10715 Nov 13	23:14	0°♐17'58	0.29032 AU
	10715 Nov 14	10:41	30°℞♏	
morning rise	10715 Nov 17	10:41	28°♏08'22	
direct	10715 Dec 05	16:16	21°♏53'20	
greatest brilliancy	10715 Dec 15	22:02	23°♏47'13	-4.7m
	10715 Dec 28	01:37	0°♐	
asc. node	10716 Jan 14	14:46	13°♐45'39	
morning max el	10716 Jan 23	17:31	22°♐16'42	45°48'30
	10716 Jan 31	11:04	0°♑	
	10716 Feb 28	02:22	0°♒	
	10716 Mar 24	21:32	0°♓	
	10716 Apr 18	20:12	0°♈	
desc. node	10716 May 05	09:49	20°♈16'16	
	10716 May 13	07:14	0°♉	
	10716 Jun 06	11:21	0°♊	
	10716 Jun 30	11:58	0°♋	
	10716 Jul 24	11:48	0°♌	
morning set	10716 Jul 26	14:00	2°♌36'48	
	10716 Aug 17	12:38	0°♍	
asc. node	10716 Aug 26	03:24	10°♍43'53	
superior conj	10716 Sep 03	13:10	21°♍11'35	0°20'16
minimum elong	10716 Sep 03	08:32	20°♍57'12	0°19'54
max. Earth dist.	10716 Sep 06	00:26	24°♍15'49	1.72351 AU
	10716 Sep 10	15:13	0°♎	
	10716 Oct 04	19:56	0°♏	
evening rise	10716 Oct 11	03:08	7°♏47'23	
	10716 Oct 29	03:28	0°♐	
	10716 Nov 22	15:04	0°♑	

desc. node	10716 Dec 15 21:10	28°♉14'51	
	10716 Dec 17 07:59	0°♒	
	10717 Jan 11 07:10	0°♓	
	10717 Feb 05 14:10	0°♈	
	10717 Mar 03 10:16	0°♉	
	10717 Mar 30 13:17	0°♊	
asc. node	10717 Apr 07 20:20	8°♊36'06	
evening max el	10717 Apr 09 20:52	10°♊38'13	46°45'12
	10717 May 01 06:05	0°♋	
greatest brilliancy	10717 May 20 10:54	11°♋22'44	-4.9m
retrograde	10717 May 30 04:18	13°♋09'55	
evening set	10717 Jun 16 13:23	7°♋20'29	
inferior conj	10717 Jun 19 19:34	5°♋21'57	8°13'27
minimum elong	10717 Jun 20 04:50	5°♋07'43	8°11'31
min. Earth dist.	10717 Jun 20 02:11	5°♋11'48	0.27118 AU
morning rise	10717 Jun 23 20:21	2°♋56'23	
	10717 Jun 29 13:36	30°℞♊	
direct	10717 Jul 10 12:35	27°♊33'51	
greatest brilliancy	10717 Jul 20 09:22	29°♊24'07	-4.9m
	10717 Jul 21 23:05	0°♋	
desc. node	10717 Jul 28 19:23	3°♋23'30	
morning max el	10717 Aug 29 15:15	29°♋39'50	46°31'27
	10717 Aug 29 23:25	0°♌	
	10717 Sep 27 08:06	0°♍	
	10717 Oct 23 18:28	0°♎	
	10717 Nov 18 08:22	0°♏	
asc. node	10717 Nov 18 17:04	0°♏25'48	
	10717 Dec 13 09:44	0°♐	
	10718 Jan 07 02:30	0°♑	
	10718 Jan 31 13:26	0°♒	
morning set	10718 Feb 24 19:03	29°♒56'10	
	10718 Feb 24 20:18	0°♓	
desc. node	10718 Mar 10 09:12	16°♓47'44	
	10718 Mar 20 23:54	0°♈	
max. Earth dist.	10718 Apr 02 01:50	15°♈03'55	1.71855 AU
superior conj	10718 Apr 05 05:46	19°♈01'00	-0°57'43
minimum elong	10718 Apr 04 18:30	18°♈25'47	0°57'25
	10718 Apr 14 00:34	0°♉	
	10718 May 07 23:05	0°♊	
evening rise	10718 May 15 02:31	8°♊57'48	
	10718 May 31 21:06	0°♋	
	10718 Jun 24 20:50	0°♌	
asc. node	10718 Jul 01 03:53	7°♌50'22	
	10718 Jul 19 00:38	0°♍	
	10718 Aug 12 11:07	0°♎	
	10718 Sep 06 08:25	0°♏	
	10718 Oct 02 00:34	0°♐	
desc. node	10718 Oct 21 00:49	21°♐13'12	
	10718 Oct 29 05:59	0°♑	
evening max el	10718 Nov 14 05:50	16°♑08'05	45°47'46
	10718 Nov 29 19:38	0°♒	
greatest brilliancy	10718 Dec 23 07:10	14°♒16'12	-4.7m
retrograde	10719 Jan 01 23:45	15°♒57'56	
evening set	10719 Jan 17 21:26	11°♒06'42	
inferior conj	10719 Jan 23 05:33	7°♒52'25	-4°26'36
minimum elong	10719 Jan 23 14:20	7°♒38'39	4°23'48
min. Earth dist.	10719 Jan 23 21:26	7°♒27'32	0.28420 AU
morning rise	10719 Jan 29 06:50	4°♒13'28	
	10719 Feb 09 13:00	30°℞♑	
asc. node	10719 Feb 11 01:31	29°♑47'59	
direct	10719 Feb 13 13:36	29°♑40'26	
	10719 Feb 17 15:55	0°♒	
greatest brilliancy	10719 Feb 24 13:02	1°♒54'04	-4.8m
	10719 Apr 02 19:54	0°♓	
morning max el	10719 Apr 04 12:45	1°♓41'13	46°29'24
	10719 May 01 00:27	0°♈	
	10719 May 26 22:26	0°♉	
desc. node	10719 Jun 02 22:37	8°♉20'23	
	10719 Jun 20 21:46	0°♊	
	10719 Jul 15 10:18	0°♋	
	10719 Aug 08 18:18	0°♌	
	10719 Sep 02 01:03	0°♍	
asc. node	10719 Sep 23 16:45	26°♍45'23	
	10719 Sep 26 07:45	0°♎	
morning set	10719 Oct 07 00:24	13°♎12'54	
	10719 Oct 20 14:27	0°♏	
superior conj	10719 Nov 13 03:56	29°♏06'19	1°25'10
minimum elong	10719 Nov 13 01:01	28°♏57'20	1°25'36
	10719 Nov 13 21:19	0°♐	
max. Earth dist.	10719 Nov 14 04:37	0°♐22'32	1.73156 AU
	10719 Dec 08 04:59	0°♑	
evening rise	10719 Dec 19 23:18	14°♑28'57	
	10720 Jan 01 14:10	0°♒	
desc. node	10720 Jan 13 09:15	14°♒28'51	
	10720 Jan 26 00:57	0°♓	
	10720 Feb 19 12:55	0°♈	
	10720 Mar 15 02:10	0°♉	
	10720 Apr 08 19:05	0°♊	
	10720 May 03 21:42	0°♋	
asc. node	10720 May 05 06:55	1°♋37'44	
	10720 May 29 23:12	0°♌	
evening max el	10720 Jun 21 15:15	24°♌10'49	46°47'52
	10720 Jun 27 13:20	0°♍	
greatest brilliancy	10720 Jul 31 02:26	24°♍33'01	-4.8m
retrograde	10720 Aug 10 22:28	26°♍43'51	
desc. node	10720 Aug 25 06:04	22°♍42'09	
evening set	10720 Aug 25 16:08	22°♍28'41	
min. Earth dist.	10720 Aug 31 09:37	19°♍05'54	0.27635 AU
inferior conj	10720 Sep 01 00:10	18°♍43'25	-1°42'09
minimum elong	10720 Aug 31 20:18	18°♍49'24	1°41'07
morning rise	10720 Sep 07 01:08	15°♍09'08	
direct	10720 Sep 21 23:16	10°♍51'44	
greatest brilliancy	10720 Oct 01 14:31	12°♍33'03	-4.8m
	10720 Oct 28 20:50	0°♎	
morning max el	10720 Nov 09 20:14	10°♎53'41	45°49'11
	10720 Nov 28 16:31	0°♏	
asc. node	10720 Dec 16 05:18	19°♏07'40	
	10720 Dec 25 20:20	0°♐	
	10721 Jan 20 14:36	0°♑	
	10721 Feb 14 15:11	0°♒	
	10721 Mar 11 05:19	0°♓	
	10721 Apr 04 12:30	0°♈	
desc. node	10721 Apr 06 22:38	3°♈00'22	
	10721 Apr 28 14:36	0°♉	
morning set	10721 May 10 01:48	14°♉21'08	
	10721 May 22 13:11	0°♊	
	10721 Jun 15 10:15	0°♋	
superior conj	10721 Jun 19 09:27	4°♋59'03	-1°17'59
minimum elong	10721 Jun 19 19:09	5°♋29'29	1°18'19
max. Earth dist.	10721 Jun 20 07:49	6°♋09'16	1.71346 AU
	10721 Jul 09 07:52	0°♌	
asc. node	10721 Jul 28 16:18	24°♌12'29	
evening rise	10721 Jul 29 14:10	25°♌20'44	
	10721 Aug 02 07:42	0°♍	
	10721 Aug 26 10:52	0°♎	
	10721 Sep 19 18:43	0°♏	
	10721 Oct 14 09:32	0°♐	
	10721 Nov 08 10:55	0°♑	
desc. node	10721 Nov 17 11:41	10°♑38'29	
	10721 Dec 04 04:14	0°♒	
	10721 Dec 30 23:52	0°♓	

evening max el	10722 Jan 24 16:02	25°♓32'39	46°06'11
	10722 Jan 29 08:00	0°♈	
greatest brilliancy	10722 Mar 05 07:36	24°♈49'29	-4.8m
asc. node	10722 Mar 10 12:05	26°♈12'34	
retrograde	10722 Mar 15 03:21	26°♈37'42	
evening set	10722 Mar 30 10:16	22°♈03'38	
inferior conj	10722 Apr 04 22:48	18°♈46'18	5°59'18
minimum elong	10722 Apr 04 11:58	19°♈03'02	5°56'31
min. Earth dist.	10722 Apr 04 22:38	18°♈46'35	0.27409 AU
morning rise	10722 Apr 09 13:24	15°♈59'00	
direct	10722 Apr 25 18:39	10°♈49'19	
greatest brilliancy	10722 May 05 21:24	12°♈44'39	-4.9m
	10722 May 31 21:39	0°♉	
morning max el	10722 Jun 15 06:32	13°♉36'54	46°59'02
desc. node	10722 Jun 30 10:21	29°♉32'24	
	10722 Jun 30 20:30	0°♊	
	10722 Jul 27 09:21	0°♋	
	10722 Aug 21 19:48	0°♌	
	10722 Sep 15 19:26	0°♍	
	10722 Oct 10 13:41	0°♎	
asc. node	10722 Oct 21 06:04	13°♎00'18	
	10722 Nov 04 04:07	0°♏	
	10722 Nov 28 15:20	0°♐	
morning set	10722 Dec 14 22:50	20°♐04'10	
	10722 Dec 23 00:12	0°♑	
	10723 Jan 16 07:38	0°♒	
max. Earth dist.	10723 Jan 19 13:12	3°♒59'36	1.72989 AU
superior conj	10723 Jan 20 20:30	5°♒36'20	0°46'04
minimum elong	10723 Jan 21 05:29	6°♒04'03	0°46'10
desc. node	10723 Feb 09 21:58	0°♓24'33	
	10723 Feb 09 14:02	0°♓	
evening rise	10723 Feb 28 03:48	23°♓00'24	
	10723 Mar 05 19:10	0°♈	
	10723 Mar 29 22:51	0°♉	
	10723 Apr 23 01:55	0°♊	
	10723 May 17 06:37	0°♋	
asc. node	10723 Jun 02 17:59	20°♋17'18	
	10723 Jun 10 16:34	0°♌	
	10723 Jul 05 13:03	0°♍	
	10723 Jul 31 05:49	0°♎	
	10723 Aug 27 20:21	0°♏	
evening max el	10723 Sep 01 18:32	4°♏56'34	46°12'22
desc. node	10723 Sep 22 16:30	23°♏32'15	
	10723 Oct 02 04:00	0°♐	
greatest brilliancy	10723 Oct 10 17:03	4°♐09'18	-4.8m
retrograde	10723 Oct 21 09:48	6°♐14'39	
evening set	10723 Nov 08 10:25	0°♐06'00	
	10723 Nov 08 14:23	30°℞♏	
inferior conj	10723 Nov 11 22:04	27°♏56'26	-8°35'18
minimum elong	10723 Nov 11 18:42	28°♏01'43	8°34'41
min. Earth dist.	10723 Nov 11 13:34	28°♏09'45	0.29011 AU
morning rise	10723 Nov 15 03:05	25°♏57'09	
direct	10723 Dec 03 08:20	19°♏43'14	
greatest brilliancy	10723 Dec 13 12:09	21°♏35'46	-4.7m
	10723 Dec 28 22:19	0°♐	
asc. node	10724 Jan 13 16:39	12°♐51'42	
morning max el	10724 Jan 21 09:47	20°♐06'56	45°47'45
	10724 Jan 31 05:57	0°♑	
	10724 Feb 27 16:45	0°♒	
	10724 Mar 24 10:10	0°♓	
	10724 Apr 18 07:58	0°♈	
desc. node	10724 May 04 11:48	19°♈47'11	
	10724 May 12 18:32	0°♉	
	10724 Jun 05 22:24	0°♊	
	10724 Jun 29 22:51	0°♋	
	10724 Jul 23 22:33	0°♌	
morning set	10724 Jul 24 03:12	0°♌14'31	
	10724 Aug 16 23:16	0°♍	
asc. node	10724 Aug 25 05:21	10°♍16'56	
superior conj	10724 Sep 01 03:31	18°♍54'00	0°16'45
minimum elong	10724 Aug 31 23:40	18°♍41'59	0°16'24
max. Earth dist.	10724 Sep 03 17:21	22°♍06'16	1.72314 AU
	10724 Sep 10 01:48	0°♎	
	10724 Oct 04 06:31	0°♏	
evening rise	10724 Oct 08 19:32	5°♏37'05	
	10724 Oct 28 14:09	0°♐	
	10724 Nov 22 01:58	0°♑	
desc. node	10724 Dec 14 23:02	27°♑46'26	
	10724 Dec 16 19:17	0°♒	
	10725 Jan 10 19:08	0°♓	
	10725 Feb 05 03:12	0°♈	
	10725 Mar 03 01:15	0°♉	
	10725 Mar 30 08:48	0°♊	
asc. node	10725 Apr 06 22:26	7°♊45'57	
evening max el	10725 Apr 07 11:14	8°♊18'00	46°44'14
	10725 May 01 23:17	0°♋	
greatest brilliancy	10725 May 18 00:06	8°♋58'47	-4.9m
retrograde	10725 May 27 17:31	10°♋45'23	
evening set	10725 Jun 14 05:44	4°♋51'17	
inferior conj	10725 Jun 17 08:30	2°♋57'33	8°24'00
minimum elong	10725 Jun 17 17:11	2°♋44'11	8°22'15
min. Earth dist.	10725 Jun 17 14:49	2°♋47'50	0.27127 AU
morning rise	10725 Jun 21 04:42	0°♋38'21	
	10725 Jun 22 07:28	30°℞♊	
direct	10725 Jul 08 01:56	25°♊09'27	
greatest brilliancy	10725 Jul 17 21:34	26°♊58'39	-4.9m
	10725 Jul 24 14:09	0°♋	
desc. node	10725 Jul 27 21:25	1°♋54'30	
morning max el	10725 Aug 27 04:56	27°♋18'33	46°32'50
	10725 Aug 29 21:42	0°♌	
	10725 Sep 27 00:01	0°♍	
	10725 Oct 23 07:55	0°♎	
asc. node	10725 Nov 17 18:57	29°♎55'18	
	10725 Nov 17 20:32	0°♏	
	10725 Dec 12 21:10	0°♐	
	10726 Jan 06 13:30	0°♑	
	10726 Jan 31 00:13	0°♒	
morning set	10726 Feb 22 09:40	27°♒39'37	
	10726 Feb 24 07:00	0°♓	
desc. node	10726 Mar 09 11:12	16°♓20'42	
	10726 Mar 20 10:35	0°♈	
max. Earth dist.	10726 Mar 30 10:49	12°♈28'49	1.71891 AU
superior conj	10726 Apr 02 18:30	16°♈37'27	-0°54'48
minimum elong	10726 Apr 02 07:27	16°♈02'59	0°54'29
	10726 Apr 13 11:17	0°♉	
	10726 May 07 09:50	0°♊	
evening rise	10726 May 12 14:07	6°♊29'46	
	10726 May 31 07:56	0°♋	
	10726 Jun 24 07:51	0°♌	
asc. node	10726 Jun 30 05:45	7°♌21'44	
	10726 Jul 18 11:56	0°♍	
	10726 Aug 11 22:53	0°♎	
	10726 Sep 05 20:57	0°♏	
	10726 Oct 01 14:40	0°♐	
desc. node	10726 Oct 20 02:50	20°♐34'30	
	10726 Oct 28 23:52	0°♑	
evening max el	10726 Nov 11 20:10	13°♑53'37	45°47'51
	10726 Nov 30 05:37	0°♒	
greatest brilliancy	10726 Dec 20 22:49	12°♒04'21	-4.7m
retrograde	10726 Dec 30 14:05	13°♒45'17	
evening set	10727 Jan 15 15:21	8°♒50'04	

inferior conj	10727 Jan	20	21:00	5°♒39'18	-4°44'28
minimum elong	10727 Jan	21	06:09	5°♒24'56	4°41'36
min. Earth dist.	10727 Jan	21	13:20	5°♒13'41	0.28464 AU
morning rise	10727 Jan	26	20:28	2°♒02'23	
	10727 Jan	30	21:40	30°℞♑	
asc. node	10727 Feb	10	03:36	27°♑28'04	
direct	10727 Feb	11	04:55	27°♑26'45	
greatest brilliancy	10727 Feb	22	05:18	29°♑40'36	-4.8m
	10727 Feb	23	00:44	0°♒	
morning max el	10727 Apr	02	02:48	29°♒21'59	46°27'53
	10727 Apr	02	18:01	0°♓	
	10727 Apr	30	16:16	0°♈	
	10727 May	26	11:59	0°♉	
desc. node	10727 Jun	02	00:24	7°♉46'22	
	10727 Jun	20	10:10	0°♊	
	10727 Jul	14	22:01	0°♋	
	10727 Aug	08	05:35	0°♌	
	10727 Sep	01	12:03	0°♍	
asc. node	10727 Sep	22	18:42	26°♍17'55	
	10727 Sep	25	18:34	0°♎	
morning set	10727 Oct	04	16:20	11°♎00'38	
	10727 Oct	20	01:09	0°♏	
superior conj	10727 Nov	10	21:07	26°♏58'24	1°24'36
minimum elong	10727 Nov	10	17:30	26°♏47'14	1°25'02
max. Earth dist.	10727 Nov	11	20:51	28°♏11'39	1.73143 AU
	10727 Nov	13	07:57	0°♐	
	10727 Dec	07	15:40	0°♑	
evening rise	10727 Dec	17	15:44	12°♑18'48	
	10728 Jan	01	01:00	0°♒	
desc. node	10728 Jan	12	11:07	14°♒01'03	
	10728 Jan	25	12:03	0°♓	
	10728 Feb	19	00:22	0°♈	
	10728 Mar	14	14:10	0°♉	
	10728 Apr	08	07:52	0°♊	
	10728 May	03	11:51	0°♋	
asc. node	10728 May	04	08:49	1°♋01'33	
	10728 May	29	16:09	0°♌	
evening max el	10728 Jun	19	04:29	21°♌47'31	46°48'44
	10728 Jun	27	14:52	0°♍	
greatest brilliancy	10728 Jul	28	18:17	22°♍15'10	-4.9m
retrograde	10728 Aug	08	12:47	24°♍25'10	
evening set	10728 Aug	23	06:25	20°♍10'10	
desc. node	10728 Aug	24	08:05	19°♍34'48	
min. Earth dist.	10728 Aug	29	01:02	16°♍46'11	0.27590 AU
inferior conj	10728 Aug	29	14:26	16°♍25'30	-1°19'59
minimum elong	10728 Aug	29	11:22	16°♍30'13	1°19'13
morning rise	10728 Sep	04	16:54	12°♍49'15	
direct	10728 Sep	19	12:27	8°♍34'07	
greatest brilliancy	10728 Sep	29	05:21	10°♍16'39	-4.8m
	10728 Oct	29	01:44	0°♎	
morning max el	10728 Nov	07	10:30	8°♎37'54	45°50'06
	10728 Nov	28	09:45	0°♏	
asc. node	10728 Dec	15	07:11	18°♏31'19	
	10728 Dec	25	10:17	0°♐	
	10729 Jan	20	03:05	0°♑	
	10729 Feb	14	02:57	0°♒	
	10729 Mar	10	16:41	0°♓	
	10729 Apr	03	23:40	0°♈	
desc. node	10729 Apr	06	00:29	2°♈31'31	
	10729 Apr	28	01:38	0°♉	
morning set	10729 May	07	12:31	11°♉49'50	
	10729 May	22	00:10	0°♊	
	10729 Jun	14	21:12	0°♋	
superior conj	10729 Jun	16	20:59	2°♋30'05	-1°19'41
minimum elong	10729 Jun	17	06:03	2°♋58'35	1°20'04
max. Earth dist.	10729 Jun	17	13:38	3°♋22'25	1.71332 AU
	10729 Jul	08	18:49	0°♌	
evening rise	10729 Jul	27	02:59	22°♌56'50	
asc. node	10729 Jul	27	18:18	23°♌44'39	
	10729 Aug	01	18:38	0°♍	
	10729 Aug	25	21:52	0°♎	
	10729 Sep	19	05:55	0°♏	
	10729 Oct	13	21:09	0°♐	
	10729 Nov	07	23:19	0°♑	
desc. node	10729 Nov	16	13:30	10°♑06'24	
	10729 Dec	03	18:04	0°♒	
	10729 Dec	30	16:43	0°♓	
evening max el	10730 Jan	22	06:42	23°♓15'48	46°05'02
	10730 Jan	29	09:58	0°♈	
greatest brilliancy	10730 Mar	02	20:10	22°♈26'41	-4.8m
asc. node	10730 Mar	09	14:07	24°♈04'12	
retrograde	10730 Mar	12	17:17	24°♈15'46	
evening set	10730 Mar	27	20:53	19°♈45'17	
inferior conj	10730 Apr	02	12:22	16°♈23'49	5°40'59
minimum elong	10730 Apr	02	01:45	16°♈40'13	5°38'12
min. Earth dist.	10730 Apr	02	12:13	16°♈24'03	0.27428 AU
morning rise	10730 Apr	07	06:23	13°♈31'51	
direct	10730 Apr	23	08:53	8°♈26'25	
greatest brilliancy	10730 May	03	11:45	10°♈22'20	-4.9m
	10730 Jun	01	03:34	0°♉	
morning max el	10730 Jun	12	21:42	11°♉17'15	46°58'53
desc. node	10730 Jun	29	12:20	28°♉47'58	
	10730 Jun	30	14:37	0°♊	
	10730 Jul	27	00:05	0°♋	
	10730 Aug	21	08:55	0°♌	
	10730 Sep	15	07:35	0°♍	
	10730 Oct	10	01:12	0°♎	
asc. node	10730 Oct	20	07:56	12°♎31'26	
	10730 Nov	03	15:13	0°♏	
	10730 Nov	28	02:13	0°♐	
morning set	10730 Dec	12	16:12	17°♐56'34	
	10730 Dec	22	11:00	0°♑	
	10731 Jan	15	18:26	0°♒	
max. Earth dist.	10731 Jan	17	09:19	2°♒00'03	1.73015 AU
superior conj	10731 Jan	18	12:36	3°♒24'19	0°48'55
minimum elong	10731 Jan	18	21:50	3°♒52'52	0°49'02
desc. node	10731 Feb	08	23:59	29°♒57'06	
	10731 Feb	09	00:55	0°♓	
evening rise	10731 Feb	25	18:28	20°♓43'02	
	10731 Mar	05	06:12	0°♈	
	10731 Mar	29	10:05	0°♉	
	10731 Apr	22	13:26	0°♊	
	10731 May	16	18:31	0°♋	
asc. node	10731 Jun	01	19:54	19°♋45'38	
	10731 Jun	10	05:02	0°♌	
	10731 Jul	05	02:30	0°♍	
	10731 Jul	30	21:15	0°♎	
	10731 Aug	27	17:00	0°♏	
evening max el	10731 Aug	30	11:09	2°♏44'56	46°13'51
desc. node	10731 Sep	21	18:31	22°♏24'10	
	10731 Oct	03	20:34	0°♐	
greatest brilliancy	10731 Oct	08	07:53	1°♐57'03	-4.8m
retrograde	10731 Oct	19	02:25	4°♐03'39	
	10731 Nov	02	11:25	30°℞♏	
evening set	10731 Nov	06	00:15	27°♏58'36	
min. Earth dist.	10731 Nov	09	04:05	26°♏01'18	0.28985 AU
inferior conj	10731 Nov	09	14:08	25°♏45'32	-8°31'43
minimum elong	10731 Nov	09	10:01	25°♏51'59	8°31'02
morning rise	10731 Nov	12	19:55	23°♏45'06	
direct	10731 Dec	01	00:44	17°♏33'07	
greatest brilliancy	10731 Dec	11	02:01	19°♏23'39	-4.7m

	10731 Dec 29	13:51	0°♐		
asc. node	10732 Jan 12	18:44	11°♐58'37		
morning max el	10732 Jan 19	01:34	17°♐55'20	45°46'46	
	10732 Jan 31	00:38	0°♑		
	10732 Feb 27	07:21	0°♒		
	10732 Mar 23	23:08	0°♓		
	10732 Apr 17	20:07	0°♈		
desc. node	10732 May 03	13:39	19°♈16'24		
	10732 May 12	06:15	0°♉		
	10732 Jun 05	09:49	0°♊		
	10732 Jun 29	10:03	0°♋		
morning set	10732 Jul 21	16:18	27°♋50'57		
	10732 Jul 23	09:35	0°♌		
	10732 Aug 16	10:12	0°♍		
asc. node	10732 Aug 24	07:17	9°♍48'57		
superior conj	10732 Aug 29	17:54	16°♍35'28	0°13'13	
minimum elong	10732 Aug 29	14:50	16°♍25'57	0°12'53	
behind sun begin	10732 Aug 29	00:09	15°♍40'13		
behind sun end	10732 Aug 30	05:32	17°♍11'41		
max. Earth dist.	10732 Sep 01	10:36	19°♍56'45	1.72273 AU	
	10732 Sep 09	12:40	0°♎		
	10732 Oct 03	17:23	0°♏		
evening rise	10732 Oct 06	12:04	3°♏26'10		
	10732 Oct 28	01:06	0°♐		
	10732 Nov 21	13:07	0°♑		
desc. node	10732 Dec 14	01:01	27°♑17'39		
	10732 Dec 16	06:50	0°♒		
	10733 Jan 10	07:24	0°♓		
	10733 Feb 04	16:38	0°♈		
	10733 Mar 02	16:50	0°♉		
	10733 Mar 30	05:30	0°♊		
evening max el	10733 Apr 05	00:52	5°♊54'28	46°43'01	
asc. node	10733 Apr 06	00:18	6°♊52'48		
	10733 May 02	23:39	0°♋		
greatest brilliancy	10733 May 15	13:46	6°♋33'30	-4.9m	
retrograde	10733 May 25	05:55	8°♋18'54		
evening set	10733 Jun 11	21:43	2°♋20'34		
inferior conj	10733 Jun 14	21:15	0°♋31'28	8°33'36	
minimum elong	10733 Jun 15	05:16	0°♋19'08	8°32'04	
min. Earth dist.	10733 Jun 15	03:36	0°♋21'41	0.27131 AU	
	10733 Jun 15	17:42	30°℞♊		
morning rise	10733 Jun 18	12:50	28°♊18'43		
direct	10733 Jul 05	14:37	22°♊43'21		
greatest brilliancy	10733 Jul 15	10:10	24°♊32'08	-4.9m	
	10733 Jul 26	06:26	0°♋		
desc. node	10733 Jul 26	23:28	0°♋27'15		
morning max el	10733 Aug 24	17:32	24°♋53'32	46°34'23	
	10733 Aug 29	19:27	0°♌		
	10733 Sep 26	15:55	0°♍		
	10733 Oct 22	21:26	0°♎		
asc. node	10733 Nov 16	20:48	29°♎24'16		
	10733 Nov 17	08:49	0°♏		
	10733 Dec 12	08:43	0°♐		
	10734 Jan 06	00:38	0°♑		
	10734 Jan 30	11:07	0°♒		
morning set	10734 Feb 20	00:39	25°♒23'53		
	10734 Feb 23	17:50	0°♓		
desc. node	10734 Mar 08	13:03	15°♓52'49		
	10734 Mar 19	21:27	0°♈		
max. Earth dist.	10734 Mar 27	21:13	9°♈57'38	1.71939 AU	
superior conj	10734 Mar 31	07:21	14°♈13'51	-0°51'48	
minimum elong	10734 Mar 30	20:38	13°♈40'24	0°51'28	
	10734 Apr 12	22:12	0°♉		
	10734 May 06	20:51	0°♊		
evening rise	10734 May 10	01:31	4°♊00'24		
	10734 May 30	19:04	0°♋		
	10734 Jun 23	19:08	0°♌		
asc. node	10734 Jun 29	07:44	6°♌52'43		
	10734 Jul 17	23:28	0°♍		
	10734 Aug 11	10:51	0°♎		
	10734 Sep 05	09:43	0°♏		
	10734 Oct 01	05:03	0°♐		
desc. node	10734 Oct 19	04:42	19°♐54'42		
	10734 Oct 28	18:16	0°♑		
evening max el	10734 Nov 09	10:12	11°♑38'21	45°48'07	
	10734 Nov 30	19:02	0°♒		
greatest brilliancy	10734 Dec 18	14:22	9°♒52'52	-4.7m	
retrograde	10734 Dec 28	04:56	11°♒33'42		
evening set	10735 Jan 13	09:34	6°♒34'06		
inferior conj	10735 Jan 18	12:43	3°♒27'07	-5°01'35	
minimum elong	10735 Jan 18	22:11	3°♒12'16	4°58'43	
min. Earth dist.	10735 Jan 19	05:26	3°♒00'54	0.28508 AU	
morning rise	10735 Jan 24	10:16	29°♑52'43		
	10735 Jan 24	05:06	30°℞♑		
direct	10735 Feb 08	20:21	25°♑13'54		
asc. node	10735 Feb 09	05:33	25°♑14'05		
greatest brilliancy	10735 Feb 19	22:05	27°♑28'40	-4.8m	
	10735 Feb 25	08:45	0°♒		
morning max el	10735 Mar 30	17:22	27°♒04'27	46°26'17	
	10735 Apr 02	15:12	0°♓		
	10735 Apr 30	07:49	0°♈		
	10735 May 26	01:27	0°♉		
desc. node	10735 Jun 01	02:22	7°♉12'50		
	10735 Jun 19	22:36	0°♊		
	10735 Jul 14	09:51	0°♋		
	10735 Aug 07	17:00	0°♌		
	10735 Aug 31	23:09	0°♍		
asc. node	10735 Sep 21	20:30	25°♍49'54		
	10735 Sep 25	05:24	0°♎		
morning set	10735 Oct 02	08:01	8°♎47'26		
	10735 Oct 19	11:49	0°♏		
superior conj	10735 Nov 08	14:17	24°♏50'28	1°23'56	
minimum elong	10735 Nov 08	10:00	24°♏37'12	1°24'20	
max. Earth dist.	10735 Nov 09	13:46	26°♏02'57	1.73129 AU	
	10735 Nov 12	18:34	0°♐		
	10735 Dec 07	02:19	0°♑		
evening rise	10735 Dec 15	08:27	10°♑09'42		
	10735 Dec 31	11:48	0°♒		
desc. node	10736 Jan 11	13:08	13°♒33'55		
	10736 Jan 24	23:05	0°♓		
	10736 Feb 18	11:45	0°♈		
	10736 Mar 14	02:03	0°♉		
	10736 Apr 07	20:35	0°♊		
asc. node	10736 May 03	10:45	0°♋25'30		
	10736 May 03	02:02	0°♋		
	10736 May 29	09:25	0°♌		
evening max el	10736 Jun 16	18:05	19°♌25'03	46°49'21	
	10736 Jun 27	18:00	0°♍		
greatest brilliancy	10736 Jul 26	09:27	19°♍55'34	-4.9m	
retrograde	10736 Aug 06	03:19	22°♍05'22		
evening set	10736 Aug 20	20:36	17°♍50'08		
desc. node	10736 Aug 23	10:02	16°♍23'20		
min. Earth dist.	10736 Aug 26	15:59	14°♍25'25	0.27546 AU	
inferior conj	10736 Aug 27	04:22	14°♍06'22	-0°57'24	
minimum elong	10736 Aug 27	02:09	14°♍09'46	0°56'53	
morning rise	10736 Sep 02	08:14	10°♍28'34		
direct	10736 Sep 17	01:39	6°♍15'15		
greatest brilliancy	10736 Sep 26	19:41	7°♍59'02	-4.8m	
	10736 Oct 29	04:52	0°♎		
morning max el	10736 Nov 05	01:22	6°♎23'39	45°51'13	
	10736 Nov 28	02:31	0°♏		

asc. node	10736 Dec 14 09:16	17°♏56'17	
	10736 Dec 24 23:54	0°♐	
	10737 Jan 19 15:19	0°♑	
	10737 Feb 13 14:28	0°♒	
	10737 Mar 10 03:48	0°♓	
	10737 Apr 03 10:33	0°♈	
desc. node	10737 Apr 05 02:21	2°♈03'33	
	10737 Apr 27 12:23	0°♉	
morning set	10737 May 04 23:51	9°♉21'22	
	10737 May 21 10:52	0°♊	
superior conj	10737 Jun 14 08:42	0°♋02'31	-1°21'14
minimum elong	10737 Jun 14 17:05	0°♋28'51	1°21'39
	10737 Jun 14 07:54	0°♋	
max. Earth dist.	10737 Jun 14 23:03	0°♋47'35	1.71327 AU
	10737 Jul 08 05:32	0°♌	
evening rise	10737 Jul 24 15:38	20°♌32'59	
asc. node	10737 Jul 26 20:13	23°♌17'05	
	10737 Aug 01 05:24	0°♍	
	10737 Aug 25 08:44	0°♎	
	10737 Sep 18 16:59	0°♏	
	10737 Oct 13 08:38	0°♐	
	10737 Nov 07 11:34	0°♑	
desc. node	10737 Nov 15 15:33	9°♑35'32	
	10737 Dec 03 07:46	0°♒	
	10737 Dec 30 09:35	0°♓	
evening max el	10738 Jan 19 22:07	21°♓01'56	46°03'55
	10738 Jan 29 12:59	0°♈	
greatest brilliancy	10738 Feb 28 09:04	20°♈05'51	-4.8m
asc. node	10738 Mar 08 16:04	21°♈52'13	
retrograde	10738 Mar 10 07:20	21°♈55'24	
evening set	10738 Mar 25 07:59	17°♈28'32	
inferior conj	10738 Mar 31 02:06	14°♈03'08	5°22'15
minimum elong	10738 Mar 30 15:47	14°♈19'04	5°19'29
min. Earth dist.	10738 Mar 31 01:59	14°♈03'19	0.27443 AU
morning rise	10738 Apr 04 23:24	11°♈06'32	
direct	10738 Apr 20 23:33	6°♈05'34	
greatest brilliancy	10738 May 01 01:58	8°♈01'26	-4.9m
	10738 Jun 01 06:56	0°♉	
morning max el	10738 Jun 10 12:29	8°♉58'14	46°58'40
desc. node	10738 Jun 28 14:23	28°♉05'41	
	10738 Jun 30 07:50	0°♊	
	10738 Jul 26 14:12	0°♋	
	10738 Aug 20 21:34	0°♌	
	10738 Sep 14 19:22	0°♍	
	10738 Oct 09 12:24	0°♎	
asc. node	10738 Oct 19 09:49	12°♎03'31	
	10738 Nov 03 02:03	0°♏	
	10738 Nov 27 12:49	0°♐	
morning set	10738 Dec 10 09:22	15°♐49'20	
	10738 Dec 21 21:28	0°♑	
max. Earth dist.	10739 Jan 15 04:13	29°♑57'57	1.73035 AU
	10739 Jan 15 04:52	0°♒	
superior conj	10739 Jan 16 04:41	1°♒13'32	0°51'40
minimum elong	10739 Jan 16 14:09	1°♒42'46	0°51'48
desc. node	10739 Feb 08 01:47	29°♒30'13	
	10739 Feb 08 11:26	0°♓	
evening rise	10739 Feb 23 09:16	18°♓27'17	
	10739 Mar 04 16:51	0°♈	
	10739 Mar 28 20:58	0°♉	
	10739 Apr 22 00:34	0°♊	
	10739 May 16 05:59	0°♋	
asc. node	10739 May 31 21:57	19°♋15'49	
	10739 Jun 09 17:03	0°♌	
	10739 Jul 04 15:32	0°♍	
	10739 Jul 30 12:23	0°♎	
	10739 Aug 27 13:54	0°♏	
evening max el	10739 Aug 28 03:18	0°♏33'12	46°15'00
desc. node	10739 Sep 20 20:25	21°♏14'53	
greatest brilliancy	10739 Oct 05 23:14	29°♏45'57	-4.8m
	10739 Oct 06 14:38	0°♐	
retrograde	10739 Oct 16 18:22	1°♐52'55	
	10739 Oct 26 11:04	30°℞♏	
evening set	10739 Nov 03 13:42	25°♏52'07	
inferior conj	10739 Nov 07 06:02	23°♏35'09	-8°27'23
minimum elong	10739 Nov 07 01:12	23°♏42'45	8°26'37
min. Earth dist.	10739 Nov 06 18:49	23°♏52'47	0.28958 AU
morning rise	10739 Nov 10 12:52	21°♏33'02	
direct	10739 Nov 28 16:49	15°♏23'32	
greatest brilliancy	10739 Dec 08 16:06	17°♏12'14	-4.7m
	10739 Dec 30 01:00	0°♐	
asc. node	10740 Jan 11 20:40	11°♐07'00	
morning max el	10740 Jan 16 16:23	15°♐42'17	45°45'56
	10740 Jan 30 18:27	0°♑	
	10740 Feb 26 21:22	0°♒	
	10740 Mar 23 11:35	0°♓	
	10740 Apr 17 07:48	0°♈	
desc. node	10740 May 02 15:34	18°♈47'14	
	10740 May 11 17:30	0°♉	
	10740 Jun 04 20:47	0°♊	
	10740 Jun 28 20:48	0°♋	
morning set	10740 Jul 19 05:37	25°♋29'22	
	10740 Jul 22 20:11	0°♌	
	10740 Aug 15 20:41	0°♍	
asc. node	10740 Aug 23 09:05	9°♍22'01	
superior conj	10740 Aug 27 08:27	14°♍18'54	0°09'40
minimum elong	10740 Aug 27 06:13	14°♍11'56	0°09'21
behind sun begin	10740 Aug 26 10:14	13°♍09'42	
behind sun end	10740 Aug 28 02:12	15°♍14'09	
max. Earth dist.	10740 Aug 30 03:50	17°♍48'33	1.72233 AU
	10740 Sep 08 23:06	0°♎	
	10740 Oct 03 03:51	0°♏	
evening rise	10740 Oct 04 04:37	1°♏16'34	
	10740 Oct 27 11:40	0°♐	
	10740 Nov 20 23:56	0°♑	
desc. node	10740 Dec 13 02:59	26°♑49'46	
	10740 Dec 15 18:06	0°♒	
	10741 Jan 09 19:22	0°♓	
	10741 Feb 04 05:49	0°♈	
	10741 Mar 02 08:16	0°♉	
	10741 Mar 30 02:25	0°♊	
evening max el	10741 Apr 02 13:30	3°♊29'42	46°41'51
asc. node	10741 Apr 05 02:19	6°♊00'15	
	10741 May 04 08:45	0°♋	
greatest brilliancy	10741 May 13 03:43	4°♋09'57	-4.9m
retrograde	10741 May 22 18:08	5°♋54'11	
	10741 Jun 09 08:01	30°℞♊	
evening set	10741 Jun 09 13:36	29°♊51'40	
inferior conj	10741 Jun 12 10:09	28°♊07'02	8°42'17
minimum elong	10741 Jun 12 17:24	27°♊55'51	8°40'56
min. Earth dist.	10741 Jun 12 16:43	27°♊56'54	0.27137 AU
morning rise	10741 Jun 15 21:11	26°♊00'45	
direct	10741 Jul 03 02:59	20°♊18'36	
greatest brilliancy	10741 Jul 12 23:25	22°♊07'47	-4.9m
desc. node	10741 Jul 26 01:20	29°♊04'00	
	10741 Jul 27 09:46	0°♋	
morning max el	10741 Aug 22 06:04	22°♋29'31	46°36'03
	10741 Aug 29 15:54	0°♌	
	10741 Sep 26 07:04	0°♍	
	10741 Oct 22 10:24	0°♎	
asc. node	10741 Nov 15 22:50	28°♎55'05	
	10741 Nov 16 20:38	0°♏	

	10741 Dec 11 19:53	0°♐	
	10742 Jan 05 11:26	0°♑	
	10742 Jan 29 21:45	0°♒	
morning set	10742 Feb 17 15:32	23°♒08'39	
	10742 Feb 23 04:24	0°♓	
desc. node	10742 Mar 07 14:54	15°♓25'49	
	10742 Mar 19 08:01	0°♈	
max. Earth dist.	10742 Mar 25 09:56	7°♈34'39	1.71983 AU
superior conj	10742 Mar 28 20:06	11°♈50'53	-0°48'43
minimum elong	10742 Mar 28 09:46	11°♈18'40	0°48'21
	10742 Apr 12 08:48	0°♉	
	10742 May 06 07:32	0°♊	
evening rise	10742 May 07 13:02	1°♊32'29	
	10742 May 30 05:53	0°♋	
	10742 Jun 23 06:08	0°♌	
asc. node	10742 Jun 28 09:39	6°♌24'19	
	10742 Jul 17 10:45	0°♍	
	10742 Aug 10 22:34	0°♎	
	10742 Sep 04 22:14	0°♏	
	10742 Sep 30 19:15	0°♐	
desc. node	10742 Oct 18 06:48	19°♐16'02	
	10742 Oct 28 12:49	0°♑	
evening max el	10742 Nov 07 00:11	9°♑23'56	45°48'20
	10742 Dec 01 12:39	0°♒	
greatest brilliancy	10742 Dec 16 05:04	7°♒41'02	-4.7m
retrograde	10742 Dec 25 20:08	9°♒22'36	
evening set	10743 Jan 11 03:42	4°♒18'13	
inferior conj	10743 Jan 16 04:17	1°♒15'05	-5°18'18
minimum elong	10743 Jan 16 14:01	0°♒59'51	5°15'26
min. Earth dist.	10743 Jan 16 21:06	0°♒48'46	0.28557 AU
	10743 Jan 18 04:23	30°℞♑	
morning rise	10743 Jan 21 23:48	27°♑43'42	
direct	10743 Feb 06 11:57	23°♑01'07	
asc. node	10743 Feb 08 07:29	23°♑04'59	
greatest brilliancy	10743 Feb 17 14:43	25°♑16'51	-4.8m
	10743 Feb 26 20:30	0°♒	
morning max el	10743 Mar 28 08:49	24°♒49'26	46°24'46
	10743 Apr 02 11:34	0°♓	
	10743 Apr 29 23:00	0°♈	
	10743 May 25 14:39	0°♉	
desc. node	10743 May 31 04:25	6°♉40'15	
	10743 Jun 19 10:47	0°♊	
	10743 Jul 13 21:26	0°♋	
	10743 Aug 07 04:11	0°♌	
	10743 Aug 31 10:03	0°♍	
asc. node	10743 Sep 20 22:27	25°♍22'52	
	10743 Sep 24 16:05	0°♎	
morning set	10743 Sep 29 23:48	6°♎34'57	
	10743 Oct 18 22:20	0°♏	
superior conj	10743 Nov 06 07:36	22°♏43'23	1°23'08
minimum elong	10743 Nov 06 02:38	22°♏28'04	1°23'30
max. Earth dist.	10743 Nov 07 08:32	24°♏00'24	1.73114 AU
	10743 Nov 12 05:01	0°♐	
	10743 Dec 06 12:50	0°♑	
evening rise	10743 Dec 13 01:23	8°♑01'46	
	10743 Dec 30 22:29	0°♒	
desc. node	10744 Jan 10 15:00	13°♒06'36	
	10744 Jan 24 10:03	0°♓	
	10744 Feb 17 23:07	0°♈	
	10744 Mar 13 13:59	0°♉	
	10744 Apr 07 09:24	0°♊	
asc. node	10744 May 02 12:49	29°♊49'37	
	10744 May 02 16:22	0°♋	
	10744 May 29 03:02	0°♌	
evening max el	10744 Jun 14 08:28	17°♌04'48	46°50'08
	10744 Jun 27 22:48	0°♍	
greatest brilliancy	10744 Jul 24 00:03	17°♍35'35	-4.9m
retrograde	10744 Aug 03 18:11	19°♍45'37	
evening set	10744 Aug 18 11:01	15°♍29'54	
desc. node	10744 Aug 22 12:02	13°♍09'56	
inferior conj	10744 Aug 24 18:16	11°♍47'04	-0°34'31
minimum elong	10744 Aug 24 16:55	11°♍49'08	0°34'19
min. Earth dist.	10744 Aug 24 06:34	12°♍05'02	0.27504 AU
morning rise	10744 Aug 30 23:24	8°♍08'05	
direct	10744 Sep 14 15:25	3°♍56'21	
greatest brilliancy	10744 Sep 24 09:30	5°♍40'45	-4.8m
	10744 Oct 29 06:26	0°♎	
morning max el	10744 Nov 02 16:46	4°♎10'46	45°52'21
	10744 Nov 27 18:55	0°♏	
asc. node	10744 Dec 13 11:08	17°♏20'59	
	10744 Dec 24 13:23	0°♐	
	10745 Jan 19 03:28	0°♑	
	10745 Feb 13 01:58	0°♒	
	10745 Mar 09 14:59	0°♓	
	10745 Apr 02 21:32	0°♈	
desc. node	10745 Apr 04 04:21	1°♈35'38	
	10745 Apr 26 23:17	0°♉	
morning set	10745 May 02 10:49	6°♉51'19	
	10745 May 20 21:44	0°♊	
superior conj	10745 Jun 11 19:57	27°♊32'58	-1°22'39
minimum elong	10745 Jun 12 03:33	27°♊56'49	1°23'05
max. Earth dist.	10745 Jun 12 08:59	28°♊13'54	1.71317 AU
	10745 Jun 13 18:45	0°♋	
	10745 Jul 07 16:22	0°♌	
evening rise	10745 Jul 22 03:56	18°♌07'34	
asc. node	10745 Jul 25 22:01	22°♌48'52	
	10745 Jul 31 16:15	0°♍	
	10745 Aug 24 19:42	0°♎	
	10745 Sep 18 04:13	0°♏	
	10745 Oct 12 20:18	0°♐	
	10745 Nov 07 00:01	0°♑	
desc. node	10745 Nov 14 17:33	9°♑03'55	
	10745 Dec 02 21:45	0°♒	
	10745 Dec 30 02:56	0°♓	
evening max el	10746 Jan 17 13:27	18°♓47'34	46°02'42
	10746 Jan 29 17:56	0°♈	
greatest brilliancy	10746 Feb 25 22:17	17°♈45'01	-4.8m
retrograde	10746 Mar 07 20:50	19°♈34'19	
asc. node	10746 Mar 07 18:03	19°♈34'18	
evening set	10746 Mar 22 19:18	15°♈10'58	
inferior conj	10746 Mar 28 15:49	11°♈41'49	5°02'58
minimum elong	10746 Mar 28 05:52	11°♈57'13	5°00'14
min. Earth dist.	10746 Mar 28 15:57	11°♈41'36	0.27463 AU
morning rise	10746 Apr 02 16:16	8°♈40'30	
direct	10746 Apr 18 14:09	3°♈44'04	
greatest brilliancy	10746 Apr 28 16:25	5°♈39'49	-4.9m
	10746 Jun 01 09:13	0°♉	
morning max el	10746 Jun 08 02:20	6°♉35'38	46°58'16
desc. node	10746 Jun 27 16:15	27°♉22'13	
	10746 Jun 30 01:06	0°♊	
	10746 Jul 26 04:31	0°♋	
	10746 Aug 20 10:25	0°♌	
	10746 Sep 14 07:20	0°♍	
	10746 Oct 08 23:48	0°♎	
asc. node	10746 Oct 18 11:48	11°♎35'11	
	10746 Nov 02 13:06	0°♏	
	10746 Nov 26 23:39	0°♐	
morning set	10746 Dec 08 02:40	13°♐41'43	
	10746 Dec 21 08:12	0°♑	
max. Earth dist.	10747 Jan 12 21:30	27°♑50'07	1.73053 AU

superior conj	10747 Jan 13 21:10	29°♑03'11	0°54'20
minimum elong	10747 Jan 14 06:48	29°♑32'54	0°54'29
	10747 Jan 14 15:35	0°♒	
desc. node	10747 Feb 07 03:42	29°♒02'49	
	10747 Feb 07 22:12	0°♓	
evening rise	10747 Feb 21 00:21	16°♓11'44	
	10747 Mar 04 03:47	0°♈	
	10747 Mar 28 08:07	0°♉	
	10747 Apr 21 12:02	0°♊	
	10747 May 15 17:52	0°♋	
asc. node	10747 May 30 23:49	18°♋44'00	
	10747 Jun 09 05:34	0°♌	
	10747 Jul 04 05:09	0°♍	
	10747 Jul 30 04:14	0°♎	
evening max el	10747 Aug 25 18:30	28°♎17'42	46°16'22
	10747 Aug 27 12:07	0°♏	
desc. node	10747 Sep 19 22:30	20°♏02'49	
greatest brilliancy	10747 Oct 03 15:06	27°♏34'18	-4.8m
retrograde	10747 Oct 14 09:59	29°♏41'15	
evening set	10747 Nov 01 03:01	23°♏44'59	
inferior conj	10747 Nov 04 22:01	21°♏23'54	-8°22'23
minimum elong	10747 Nov 04 16:29	21°♏32'35	8°21'30
min. Earth dist.	10747 Nov 04 09:56	21°♏42'53	0.28927 AU
morning rise	10747 Nov 08 06:08	19°♏19'41	
direct	10747 Nov 26 08:32	13°♏13'01	
greatest brilliancy	10747 Dec 06 06:48	15°♏00'27	-4.7m
	10747 Dec 30 09:36	0°♐	
asc. node	10748 Jan 10 22:35	10°♐15'17	
morning max el	10748 Jan 14 06:28	13°♐26'20	45°45'15
	10748 Jan 30 12:13	0°♑	
	10748 Feb 26 11:34	0°♒	
	10748 Mar 23 00:18	0°♓	
	10748 Apr 16 19:46	0°♈	
desc. node	10748 May 01 17:34	18°♈17'23	
	10748 May 11 05:04	0°♉	
	10748 Jun 04 08:06	0°♊	
	10748 Jun 28 07:57	0°♋	
morning set	10748 Jul 16 18:28	23°♋04'52	
	10748 Jul 22 07:13	0°♌	
	10748 Aug 15 07:37	0°♍	
asc. node	10748 Aug 22 11:04	8°♍54'14	
superior conj	10748 Aug 24 22:34	11°♍59'29	0°06'03
minimum elong	10748 Aug 24 21:11	11°♍55'09	0°05'46
behind sun begin	10748 Aug 23 22:16	10°♍43'48	
behind sun end	10748 Aug 25 20:06	13°♍06'30	
max. Earth dist.	10748 Aug 27 18:08	15°♍29'47	1.72188 AU
	10748 Sep 08 10:00	0°♎	
evening rise	10748 Oct 01 20:48	29°♎04'31	
	10748 Oct 02 14:44	0°♏	
	10748 Oct 26 22:40	0°♐	
	10748 Nov 20 11:11	0°♑	
desc. node	10748 Dec 12 04:51	26°♑20'18	
	10748 Dec 15 05:48	0°♒	
	10749 Jan 09 07:50	0°♓	
	10749 Feb 03 19:31	0°♈	
	10749 Mar 02 00:19	0°♉	
	10749 Mar 30 00:30	0°♊	
evening max el	10749 Mar 31 01:34	1°♊02'46	46°40'46
asc. node	10749 Apr 04 04:24	5°♊05'53	
	10749 May 06 11:06	0°♋	
greatest brilliancy	10749 May 10 17:22	1°♋45'26	-4.9m
retrograde	10749 May 20 06:41	3°♋29'10	
	10749 Jun 02 12:13	30°℞♊	
evening set	10749 Jun 07 05:19	27°♊22'27	
inferior conj	10749 Jun 09 23:10	25°♊41'58	8°49'51
minimum elong	10749 Jun 10 05:38	25°♊32'00	8°48'40
min. Earth dist.	10749 Jun 10 05:52	25°♊31'40	0.27149 AU
morning rise	10749 Jun 13 05:56	23°♊42'02	
direct	10749 Jun 30 15:26	17°♊52'59	
greatest brilliancy	10749 Jul 10 12:57	19°♊42'58	-4.9m
desc. node	10749 Jul 25 03:23	27°♊42'43	
	10749 Jul 28 06:17	0°♋	
morning max el	10749 Aug 19 19:15	20°♋05'37	46°37'35
	10749 Aug 29 12:14	0°♌	
	10749 Sep 25 22:31	0°♍	
	10749 Oct 21 23:46	0°♎	
asc. node	10749 Nov 15 00:43	28°♎24'11	
	10749 Nov 16 08:50	0°♏	
	10749 Dec 11 07:25	0°♐	
	10750 Jan 04 22:35	0°♑	
	10750 Jan 29 08:43	0°♒	
morning set	10750 Feb 15 06:39	20°♒53'04	
	10750 Feb 22 15:19	0°♓	
desc. node	10750 Mar 06 16:55	14°♓58'11	
	10750 Mar 18 18:56	0°♈	
max. Earth dist.	10750 Mar 23 00:47	5°♈17'16	1.72025 AU
superior conj	10750 Mar 26 09:06	9°♈27'41	-0°45'33
minimum elong	10750 Mar 25 23:13	8°♈56'50	0°45'10
	10750 Apr 11 19:46	0°♉	
evening rise	10750 May 05 01:00	29°♉05'00	
	10750 May 05 18:33	0°♊	
	10750 May 29 17:00	0°♋	
	10750 Jun 22 17:27	0°♌	
asc. node	10750 Jun 27 11:31	5°♌54'51	
	10750 Jul 16 22:22	0°♍	
	10750 Aug 10 10:40	0°♎	
	10750 Sep 04 11:14	0°♏	
	10750 Sep 30 10:05	0°♐	
desc. node	10750 Oct 17 08:47	18°♐35'22	
	10750 Oct 28 08:24	0°♑	
evening max el	10750 Nov 04 14:58	7°♑10'18	45°48'46
	10750 Dec 02 13:25	0°♒	
greatest brilliancy	10750 Dec 13 19:24	5°♒28'03	-4.7m
retrograde	10750 Dec 23 11:55	7°♒10'46	
evening set	10751 Jan 08 22:00	2°♒01'37	
	10751 Jan 12 06:56	30°℞♑	
inferior conj	10751 Jan 13 19:57	29°♑02'19	-5°34'29
minimum elong	10751 Jan 14 05:53	28°♑46'47	5°31'37
min. Earth dist.	10751 Jan 14 12:25	28°♑36'33	0.28603 AU
morning rise	10751 Jan 19 13:17	25°♑34'16	
direct	10751 Feb 04 04:04	20°♑47'47	
asc. node	10751 Feb 07 09:33	21°♑00'01	
greatest brilliancy	10751 Feb 15 06:47	23°♑03'52	-4.8m
	10751 Feb 27 22:01	0°♒	
morning max el	10751 Mar 26 01:02	22°♒35'45	46°23'10
	10751 Apr 02 07:34	0°♓	
	10751 Apr 29 14:15	0°♈	
	10751 May 25 03:59	0°♉	
desc. node	10751 May 30 06:12	6°♉06'16	
	10751 Jun 18 23:08	0°♊	
	10751 Jul 13 09:12	0°♋	
	10751 Aug 06 15:34	0°♌	
	10751 Aug 30 21:09	0°♍	
asc. node	10751 Sep 20 00:22	24°♍55'05	
	10751 Sep 24 02:58	0°♎	
morning set	10751 Sep 27 15:37	4°♎21'49	
	10751 Oct 18 09:06	0°♏	
superior conj	10751 Nov 04 00:45	20°♏34'56	1°22'13
minimum elong	10751 Nov 03 19:09	20°♏17'38	1°22'32
max. Earth dist.	10751 Nov 05 04:07	21°♏59'28	1.73100 AU
	10751 Nov 11 15:44	0°♐	

	10751 Dec 05 23:36	0°♉	
evening rise	10751 Dec 10 18:10	5°♉52'33	
	10751 Dec 30 09:25	0°♒	
desc. node	10752 Jan 09 16:54	12°♒38'38	
	10752 Jan 23 21:14	0°♓	
	10752 Feb 17 10:42	0°♈	
	10752 Mar 13 02:10	0°♉	
	10752 Apr 06 22:30	0°♊	
asc. node	10752 May 01 14:42	29°♊12'17	
	10752 May 02 07:06	0°♋	
	10752 May 28 21:15	0°♌	
evening max el	10752 Jun 11 23:44	14°♌46'17	46°50'52
	10752 Jun 28 05:54	0°♍	
greatest brilliancy	10752 Jul 21 14:47	15°♍15'36	-4.9m
retrograde	10752 Aug 01 09:15	17°♍25'35	
evening set	10752 Aug 16 01:46	13°♍09'29	
desc. node	10752 Aug 21 14:03	9°♍55'28	
inferior conj	10752 Aug 22 08:13	9°♍27'37	-0°11'35
minimum elong	10752 Aug 22 07:45	9°♍28'19	0°11'42
transit middle	10752 Aug 22 07:45	9°♍28'19	0°11'42
transit begin	10752 Aug 22 04:53	9°♍32'44	
transit end	10752 Aug 22 10:38	9°♍23'55	
min. Earth dist.	10752 Aug 21 21:01	9°♍44'47	0.27462 AU
morning rise	10752 Aug 28 14:25	5°♍47'39	
direct	10752 Sep 12 05:37	1°♍37'34	
greatest brilliancy	10752 Sep 21 22:49	3°♍21'47	-4.8m
	10752 Oct 29 06:49	0°♎	
morning max el	10752 Oct 31 07:59	1°♎57'11	45°53'21
	10752 Nov 27 11:08	0°♏	
asc. node	10752 Dec 12 13:02	16°♏45'36	
	10752 Dec 24 02:53	0°♐	
	10753 Jan 18 15:44	0°♑	
	10753 Feb 12 13:34	0°♒	
	10753 Mar 09 02:13	0°♓	
	10753 Apr 02 08:34	0°♈	
desc. node	10753 Apr 03 06:12	1°♈07'07	
	10753 Apr 26 10:14	0°♉	
morning set	10753 Apr 29 21:51	4°♉21'28	
	10753 May 20 08:39	0°♊	
superior conj	10753 Jun 09 07:18	25°♊03'33	-1°23'53
minimum elong	10753 Jun 09 14:01	25°♊24'39	1°24'21
max. Earth dist.	10753 Jun 09 17:38	25°♊35'59	1.71310 AU
	10753 Jun 13 05:39	0°♋	
	10753 Jul 07 03:16	0°♌	
evening rise	10753 Jul 19 16:13	15°♌41'52	
asc. node	10753 Jul 25 00:02	22°♌21'07	
	10753 Jul 31 03:10	0°♍	
	10753 Aug 24 06:42	0°♎	
	10753 Sep 17 15:26	0°♏	
	10753 Oct 12 07:59	0°♐	
	10753 Nov 06 12:32	0°♑	
desc. node	10753 Nov 13 19:24	8°♑31'47	
	10753 Dec 02 11:52	0°♒	
	10753 Dec 29 20:42	0°♓	
evening max el	10754 Jan 15 04:20	16°♓32'08	46°01'29
	10754 Jan 30 01:03	0°♈	
greatest brilliancy	10754 Feb 23 12:24	15°♈25'35	-4.8m
retrograde	10754 Mar 05 10:08	17°♈13'55	
asc. node	10754 Mar 06 20:06	17°♈11'32	
evening set	10754 Mar 20 07:04	12°♈53'50	
inferior conj	10754 Mar 26 05:45	9°♈21'24	4°43'12
minimum elong	10754 Mar 25 20:15	9°♈36'09	4°40'33
min. Earth dist.	10754 Mar 26 06:29	9°♈20'16	0.27481 AU
morning rise	10754 Mar 31 09:12	6°♈15'28	
direct	10754 Apr 16 04:18	1°♈23'27	
greatest brilliancy	10754 Apr 26 07:29	3°♈19'32	-4.9m
	10754 Jun 01 09:59	0°♉	
morning max el	10754 Jun 05 15:20	4°♉11'17	46°57'45
desc. node	10754 Jun 26 18:16	26°♉40'08	
	10754 Jun 29 17:54	0°♊	
	10754 Jul 25 18:36	0°♋	
	10754 Aug 19 23:07	0°♌	
	10754 Sep 13 19:11	0°♍	
	10754 Oct 08 11:05	0°♎	
asc. node	10754 Oct 17 13:38	11°♎06'53	
	10754 Nov 01 24:00	0°♏	
	10754 Nov 26 10:20	0°♐	
morning set	10754 Dec 05 20:04	11°♐34'51	
	10754 Dec 20 18:46	0°♑	
max. Earth dist.	10755 Jan 10 14:00	25°♑40'15	1.73075 AU
superior conj	10755 Jan 11 13:46	26°♑53'35	0°56'54
minimum elong	10755 Jan 11 23:29	27°♑23'36	0°57'03
	10755 Jan 14 02:10	0°♒	
desc. node	10755 Feb 06 05:43	28°♒36'03	
	10755 Feb 07 08:53	0°♓	
evening rise	10755 Feb 18 15:22	13°♓56'22	
	10755 Mar 03 14:37	0°♈	
	10755 Mar 27 19:10	0°♉	
	10755 Apr 20 23:21	0°♊	
	10755 May 15 05:37	0°♋	
asc. node	10755 May 30 01:45	18°♋12'49	
	10755 Jun 08 17:58	0°♌	
	10755 Jul 03 18:44	0°♍	
	10755 Jul 29 20:13	0°♎	
evening max el	10755 Aug 23 08:54	26°♎00'27	46°17'43
	10755 Aug 27 11:06	0°♏	
desc. node	10755 Sep 19 00:30	18°♏48'55	
greatest brilliancy	10755 Oct 01 07:02	25°♏22'58	-4.8m
retrograde	10755 Oct 12 01:33	27°♏30'07	
evening set	10755 Oct 29 16:01	21°♏38'35	
min. Earth dist.	10755 Nov 02 01:12	19°♏33'15	0.28892 AU
inferior conj	10755 Nov 02 13:56	19°♏13'14	-8°16'30
minimum elong	10755 Nov 02 07:44	19°♏22'58	8°15'31
morning rise	10755 Nov 05 23:36	17°♏06'38	
direct	10755 Nov 23 23:40	11°♏03'00	
greatest brilliancy	10755 Dec 03 21:51	12°♏49'52	-4.7m
	10755 Dec 30 15:20	0°♐	
asc. node	10756 Jan 10 00:40	9°♐25'50	
morning max el	10756 Jan 11 20:19	11°♐10'45	45°44'39
	10756 Jan 30 05:16	0°♑	
	10756 Feb 26 01:21	0°♒	
	10756 Mar 22 12:43	0°♓	
	10756 Apr 16 07:30	0°♈	
desc. node	10756 Apr 30 19:24	17°♈47'44	
	10756 May 10 16:23	0°♉	
	10756 Jun 03 19:09	0°♊	
	10756 Jun 27 18:49	0°♋	
morning set	10756 Jul 14 07:07	20°♋40'32	
	10756 Jul 21 17:57	0°♌	
	10756 Aug 14 18:17	0°♍	
asc. node	10756 Aug 21 12:58	8°♍27'01	
superior conj	10756 Aug 22 12:35	9°♍40'34	0°02'25
minimum elong	10756 Aug 22 12:03	9°♍38'56	0°02'09
behind sun begin	10756 Aug 21 11:51	8°♍23'33	
behind sun end	10756 Aug 23 12:15	10°♍54'19	
max. Earth dist.	10756 Aug 25 06:19	13°♍05'14	1.72149 AU
	10756 Sep 07 20:37	0°♎	
evening rise	10756 Sep 29 12:58	26°♎53'10	
	10756 Oct 02 01:22	0°♏	
	10756 Oct 26 09:23	0°♐	
	10756 Nov 19 22:08	0°♑	

desc. node	10756 Dec 11 06:52	25°♉52'13	
	10756 Dec 14 17:12	0°♒	
	10757 Jan 08 20:00	0°♓	
	10757 Feb 03 09:00	0°♈	
	10757 Mar 01 16:20	0°♉	
evening max el	10757 Mar 28 13:55	28°♉37'22	46°39'35
	10757 Mar 29 23:13	0°♊	
asc. node	10757 Apr 03 06:16	4°♊10'30	
greatest brilliancy	10757 May 08 06:19	29°♊20'19	-4.9m
	10757 May 10 08:48	0°♋	
retrograde	10757 May 17 19:31	1°♋04'19	
	10757 May 25 01:08	30°℞♊	
evening set	10757 Jun 04 20:28	24°♊53'41	
inferior conj	10757 Jun 07 11:58	23°♊16'53	8°56'20
minimum elong	10757 Jun 07 17:37	23°♊08'14	8°55'19
min. Earth dist.	10757 Jun 07 18:27	23°♊06'55	0.27160 AU
morning rise	10757 Jun 10 14:43	21°♊23'06	
direct	10757 Jun 28 03:59	15°♊27'24	
greatest brilliancy	10757 Jul 08 01:49	17°♊17'55	-4.9m
desc. node	10757 Jul 24 05:25	26°♊24'37	
	10757 Jul 28 21:14	0°♋	
morning max el	10757 Aug 17 09:04	17°♋44'10	46°39'07
	10757 Aug 29 07:35	0°♌	
	10757 Sep 25 13:25	0°♍	
	10757 Oct 21 12:40	0°♎	
asc. node	10757 Nov 14 02:35	27°♎54'19	
	10757 Nov 15 20:40	0°♏	
	10757 Dec 10 18:36	0°♐	
	10758 Jan 04 09:23	0°♑	
	10758 Jan 28 19:19	0°♒	
morning set	10758 Feb 12 22:05	18°♒39'44	
	10758 Feb 22 01:52	0°♓	
desc. node	10758 Mar 05 18:45	14°♓31'14	
	10758 Mar 18 05:30	0°♈	
max. Earth dist.	10758 Mar 20 17:27	3°♈06'41	1.72070 AU
superior conj	10758 Mar 23 22:11	7°♈05'49	-0°42'19
minimum elong	10758 Mar 23 12:49	6°♈36'38	0°41'55
	10758 Apr 11 06:23	0°♉	
evening rise	10758 May 02 12:52	26°♉38'13	
	10758 May 05 05:17	0°♊	
	10758 May 29 03:52	0°♋	
	10758 Jun 22 04:31	0°♌	
asc. node	10758 Jun 26 13:32	5°♌26'34	
	10758 Jul 16 09:43	0°♍	
	10758 Aug 09 22:30	0°♎	
	10758 Sep 03 23:59	0°♏	
	10758 Sep 30 00:46	0°♐	
desc. node	10758 Oct 16 10:40	17°♐54'54	
	10758 Oct 28 04:14	0°♑	
evening max el	10758 Nov 02 06:36	4°♑59'39	45°49'13
	10758 Dec 03 23:40	0°♒	
greatest brilliancy	10758 Dec 11 09:40	3°♒16'05	-4.7m
retrograde	10758 Dec 21 03:47	4°♒59'47	
	10759 Jan 06 06:41	30°℞♑	
evening set	10759 Jan 06 16:22	29°♑46'05	
inferior conj	10759 Jan 11 11:33	26°♑50'32	-5°50'06
minimum elong	10759 Jan 11 21:38	26°♑34'46	5°47'17
min. Earth dist.	10759 Jan 12 03:24	26°♑25'46	0.28644 AU
morning rise	10759 Jan 17 02:32	23°♑26'03	
direct	10759 Feb 01 20:30	18°♑35'47	
asc. node	10759 Feb 06 11:29	19°♑00'43	
greatest brilliancy	10759 Feb 12 22:02	20°♑51'10	-4.8m
	10759 Feb 28 16:03	0°♒	
morning max el	10759 Mar 23 17:13	20°♒23'26	46°21'33
	10759 Apr 02 02:29	0°♓	
	10759 Apr 29 04:51	0°♈	
	10759 May 24 16:52	0°♉	
desc. node	10759 May 29 08:13	5°♉34'13	
	10759 Jun 18 11:07	0°♊	
	10759 Jul 12 20:40	0°♋	
	10759 Aug 06 02:40	0°♌	
	10759 Aug 30 07:58	0°♍	
asc. node	10759 Sep 19 02:12	24°♍27'53	
	10759 Sep 23 13:33	0°♎	
morning set	10759 Sep 25 07:07	2°♎08'32	
	10759 Oct 17 19:33	0°♏	
superior conj	10759 Nov 01 17:37	18°♏26'30	1°21'09
minimum elong	10759 Nov 01 11:25	18°♏07'21	1°21'28
max. Earth dist.	10759 Nov 03 00:32	20°♏02'01	1.73083 AU
	10759 Nov 11 02:10	0°♐	
	10759 Dec 05 10:07	0°♑	
evening rise	10759 Dec 08 10:49	3°♑43'45	
	10759 Dec 29 20:05	0°♒	
desc. node	10760 Jan 08 18:54	12°♒11'51	
	10760 Jan 23 08:09	0°♓	
	10760 Feb 16 21:59	0°♈	
	10760 Mar 12 14:02	0°♉	
	10760 Apr 06 11:19	0°♊	
asc. node	10760 Apr 30 16:41	28°♊36'03	
	10760 May 01 21:37	0°♋	
	10760 May 28 15:36	0°♌	
evening max el	10760 Jun 09 14:54	12°♌28'11	46°51'14
	10760 Jun 28 15:25	0°♍	
greatest brilliancy	10760 Jul 19 05:51	12°♍56'02	-4.9m
retrograde	10760 Jul 29 23:44	15°♍04'54	
evening set	10760 Aug 13 16:27	10°♍48'30	
inferior conj	10760 Aug 19 21:52	7°♍07'45	0°11'36
minimum elong	10760 Aug 19 22:19	7°♍07'04	0°11'12
transit middle	10760 Aug 19 22:19	7°♍07'04	0°11'12
transit begin	10760 Aug 19 19:19	7°♍11'40	
transit end	10760 Aug 20 01:18	7°♍02'28	
min. Earth dist.	10760 Aug 19 11:27	7°♍23'45	0.27421 AU
desc. node	10760 Aug 20 16:01	6°♍39'55	
morning rise	10760 Aug 26 04:54	3°♍26'48	
	10760 Sep 03 22:24	30°℞♌	
direct	10760 Sep 09 19:33	29°♌18'28	
	10760 Sep 15 20:24	0°♍	
greatest brilliancy	10760 Sep 19 11:57	1°♍02'14	-4.8m
morning max el	10760 Oct 28 22:05	29°♍41'11	45°54'24
	10760 Oct 29 05:54	0°♎	
	10760 Nov 27 02:51	0°♏	
asc. node	10760 Dec 11 15:08	16°♏11'43	
	10760 Dec 23 16:02	0°♐	
	10761 Jan 18 03:41	0°♑	
	10761 Feb 12 00:54	0°♒	
	10761 Mar 08 13:11	0°♓	
	10761 Apr 01 19:20	0°♈	
desc. node	10761 Apr 02 08:04	0°♈39'30	
	10761 Apr 25 20:54	0°♉	
morning set	10761 Apr 27 09:15	1°♉53'39	
	10761 May 19 19:16	0°♊	
superior conj	10761 Jun 06 19:00	22°♊36'09	-1°24'56
minimum elong	10761 Jun 07 00:48	22°♊54'24	1°25'26
max. Earth dist.	10761 Jun 07 00:51	22°♊54'32	1.71304 AU
	10761 Jun 12 16:16	0°♋	
	10761 Jul 06 13:54	0°♌	
evening rise	10761 Jul 17 04:26	13°♌16'40	
asc. node	10761 Jul 24 01:56	21°♌53'41	
	10761 Jul 30 13:52	0°♍	
	10761 Aug 23 17:33	0°♎	
	10761 Sep 17 02:32	0°♏	

	10761 Oct 11 19:33	0°♐	
	10761 Nov 06 00:57	0°♑	
desc. node	10761 Nov 12 21:27	8°♑00'27	
	10761 Dec 02 02:00	0°♒	
	10761 Dec 29 14:47	0°♓	
evening max el	10762 Jan 12 18:12	14°♓14'36	46°00'19
	10762 Jan 30 10:42	0°♈	
greatest brilliancy	10762 Feb 21 02:53	13°♈06'48	-4.8m
retrograde	10762 Mar 02 23:07	14°♈53'56	
asc. node	10762 Mar 05 22:02	14°♈43'29	
evening set	10762 Mar 17 18:55	10°♈36'29	
inferior conj	10762 Mar 23 19:37	7°♈01'24	4°22'57
minimum elong	10762 Mar 23 10:36	7°♈15'25	4°20'24
min. Earth dist.	10762 Mar 23 21:21	6°♈58'43	0.27499 AU
morning rise	10762 Mar 29 01:56	3°♈51'00	
	10762 Apr 06 21:50	30°♓	
direct	10762 Apr 13 17:53	29°♓02'55	
	10762 Apr 20 18:54	0°♈	
greatest brilliancy	10762 Apr 23 23:05	1°♈00'14	-4.9m
	10762 Jun 01 09:22	0°♉	
morning max el	10762 Jun 03 03:59	1°♉46'37	46°57'30
desc. node	10762 Jun 25 20:17	25°♉59'16	
	10762 Jun 29 10:07	0°♊	
	10762 Jul 25 08:16	0°♋	
	10762 Aug 19 11:30	0°♌	
	10762 Sep 13 06:49	0°♍	
	10762 Oct 07 22:14	0°♎	
asc. node	10762 Oct 16 15:34	10°♎39'07	
	10762 Nov 01 10:50	0°♏	
	10762 Nov 25 20:57	0°♐	
morning set	10762 Dec 03 13:07	9°♐26'59	
	10762 Dec 20 05:17	0°♑	
max. Earth dist.	10763 Jan 08 07:06	23°♑32'28	1.73097 AU
superior conj	10763 Jan 09 06:07	24°♑43'29	0°59'23
minimum elong	10763 Jan 09 15:53	25°♑13'39	0°59'34
	10763 Jan 13 12:41	0°♒	
desc. node	10763 Feb 05 07:30	28°♒08'44	
	10763 Feb 06 19:30	0°♓	
evening rise	10763 Feb 16 06:18	11°♓41'01	
	10763 Mar 03 01:26	0°♈	
	10763 Mar 27 06:13	0°♉	
	10763 Apr 20 10:42	0°♊	
	10763 May 14 17:21	0°♋	
asc. node	10763 May 29 03:48	17°♋42'06	
	10763 Jun 08 06:21	0°♌	
	10763 Jul 03 08:17	0°♍	
	10763 Jul 29 12:18	0°♎	
evening max el	10763 Aug 20 22:54	23°♎42'40	46°19'02
	10763 Aug 27 10:59	0°♏	
desc. node	10763 Sep 18 02:24	17°♏32'55	
greatest brilliancy	10763 Sep 28 22:32	23°♏11'11	-4.8m
retrograde	10763 Oct 09 17:22	25°♏19'14	
evening set	10763 Oct 27 04:51	19°♏32'18	
min. Earth dist.	10763 Oct 30 16:28	17°♏23'38	0.28861 AU
inferior conj	10763 Oct 31 05:53	17°♏02'35	-8°09'51
minimum elong	10763 Oct 30 23:02	17°♏13'19	8°08'45
morning rise	10763 Nov 03 17:23	14°♏53'19	
direct	10763 Nov 21 14:40	8°♏52'45	
greatest brilliancy	10763 Dec 01 13:16	10°♏39'36	-4.7m
	10763 Dec 30 19:12	0°♐	
asc. node	10764 Jan 09 02:35	8°♐36'37	
morning max el	10764 Jan 09 11:01	8°♐57'00	45°44'06
	10764 Jan 29 22:03	0°♑	
	10764 Feb 25 15:05	0°♒	
	10764 Mar 22 01:09	0°♓	
	10764 Apr 15 19:16	0°♈	
desc. node	10764 Apr 29 21:20	17°♈18'15	
	10764 May 10 03:46	0°♉	
	10764 Jun 03 06:17	0°♊	
	10764 Jun 27 05:45	0°♋	
morning set	10764 Jul 11 19:57	18°♋16'30	
	10764 Jul 21 04:44	0°♌	
	10764 Aug 14 04:58	0°♍	
superior conj	10764 Aug 20 02:53	7°♍22'26	-0°01'14
minimum elong	10764 Aug 20 03:14	7°♍23'29	0°01'29
behind sun begin	10764 Aug 19 02:53	6°♍07'37	
behind sun end	10764 Aug 21 03:34	8°♍39'20	
asc. node	10764 Aug 20 14:47	7°♍59'31	
max. Earth dist.	10764 Aug 22 18:53	10°♍41'48	1.72107 AU
	10764 Sep 07 07:15	0°♎	
evening rise	10764 Sep 27 05:29	24°♎42'52	
	10764 Oct 01 12:02	0°♏	
	10764 Oct 25 20:11	0°♐	
	10764 Nov 19 09:13	0°♑	
desc. node	10764 Dec 10 08:48	25°♑23'21	
	10764 Dec 14 04:48	0°♒	
	10765 Jan 08 08:25	0°♓	
	10765 Feb 02 22:48	0°♈	
	10765 Mar 01 08:51	0°♉	
evening max el	10765 Mar 26 03:10	26°♉13'49	46°38'25
	10765 Mar 29 23:13	0°♊	
asc. node	10765 Apr 02 08:18	3°♊13'45	
greatest brilliancy	10765 May 05 18:39	26°♊53'59	-4.9m
retrograde	10765 May 15 08:49	28°♊38'47	
evening set	10765 Jun 02 11:13	22°♊24'40	
inferior conj	10765 Jun 05 00:43	20°♊50'57	9°01'53
minimum elong	10765 Jun 05 05:28	20°♊43'40	9°01'01
min. Earth dist.	10765 Jun 05 06:39	20°♊41'52	0.27171 AU
morning rise	10765 Jun 07 23:41	19°♊02'58	
direct	10765 Jun 25 17:02	13°♊01'04	
greatest brilliancy	10765 Jul 05 14:07	14°♊51'27	-4.9m
desc. node	10765 Jul 23 07:17	25°♊07'58	
	10765 Jul 29 08:42	0°♋	
morning max el	10765 Aug 14 23:49	15°♋24'24	46°40'47
	10765 Aug 29 02:36	0°♌	
	10765 Sep 25 04:15	0°♍	
	10765 Oct 21 01:37	0°♎	
asc. node	10765 Nov 13 04:37	27°♎24'43	
	10765 Nov 15 08:34	0°♏	
	10765 Dec 10 05:54	0°♐	
	10766 Jan 03 20:23	0°♑	
	10766 Jan 28 06:11	0°♒	
morning set	10766 Feb 10 13:35	16°♒25'48	
	10766 Feb 21 12:41	0°♓	
desc. node	10766 Mar 04 20:37	14°♓03'28	
	10766 Mar 17 16:20	0°♈	
max. Earth dist.	10766 Mar 18 08:44	0°♈51'05	1.72111 AU
superior conj	10766 Mar 21 11:12	4°♈43'00	-0°39'00
minimum elong	10766 Mar 21 02:26	4°♈15'42	0°38'36
	10766 Apr 10 17:17	0°♉	
evening rise	10766 Apr 30 00:44	24°♉10'34	
	10766 May 04 16:17	0°♊	
	10766 May 28 15:02	0°♋	
	10766 Jun 21 15:54	0°♌	
asc. node	10766 Jun 25 15:25	4°♌56'56	
	10766 Jul 15 21:24	0°♍	
	10766 Aug 09 10:40	0°♎	
	10766 Sep 03 13:05	0°♏	
	10766 Sep 29 15:53	0°♐	
desc. node	10766 Oct 15 12:46	17°♐14'02	
	10766 Oct 28 00:55	0°♑	

evening max el	10766 Oct 30 22:46	2°♑49'51	45°49'41
	10766 Dec 06 04:28	0°♒	
greatest brilliancy	10766 Dec 09 00:21	1°♒04'29	-4.7m
retrograde	10766 Dec 18 19:35	2°♒48'37	
	10766 Dec 30 17:31	30°℞♑	
evening set	10767 Jan 04 10:59	27°♑30'37	
inferior conj	10767 Jan 09 03:23	24°♑38'41	-6°05'01
minimum elong	10767 Jan 09 13:32	24°♑22'47	6°02'16
min. Earth dist.	10767 Jan 09 18:31	24°♑14'58	0.28686 AU
morning rise	10767 Jan 14 15:50	21°♑17'43	
direct	10767 Jan 30 13:12	16°♑23'45	
asc. node	10767 Feb 05 13:26	17°♑05'24	
greatest brilliancy	10767 Feb 10 13:09	18°♑37'44	-4.8m
	10767 Mar 01 05:49	0°♒	
morning max el	10767 Mar 21 09:11	18°♒09'30	46°19'47
	10767 Apr 01 21:19	0°♓	
	10767 Apr 28 19:41	0°♈	
	10767 May 24 06:01	0°♉	
desc. node	10767 May 28 10:13	5°♉01'09	
	10767 Jun 17 23:25	0°♊	
	10767 Jul 12 08:26	0°♋	
	10767 Aug 05 14:06	0°♌	
	10767 Aug 29 19:07	0°♍	
asc. node	10767 Sep 18 04:08	23°♍59'56	
morning set	10767 Sep 22 22:43	29°♍54'29	
	10767 Sep 23 00:30	0°♎	
	10767 Oct 17 06:20	0°♏	
superior conj	10767 Oct 30 10:44	16°♏17'51	1°20'00
minimum elong	10767 Oct 30 03:59	15°♏56'59	1°20'15
max. Earth dist.	10767 Oct 31 20:56	18°♏03'30	1.73058 AU
	10767 Nov 10 12:54	0°♐	
	10767 Dec 04 20:54	0°♑	
evening rise	10767 Dec 06 03:48	1°♑35'05	
	10767 Dec 29 07:02	0°♒	
desc. node	10768 Jan 07 20:45	11°♒43'38	
	10768 Jan 22 19:24	0°♓	
	10768 Feb 16 09:41	0°♈	
	10768 Mar 12 02:24	0°♉	
	10768 Apr 06 00:42	0°♊	
asc. node	10768 Apr 29 18:44	27°♊58'20	
	10768 May 01 12:49	0°♋	
	10768 May 28 10:57	0°♌	
evening max el	10768 Jun 07 05:24	10°♌07'02	46°51'36
	10768 Jun 29 04:58	0°♍	
greatest brilliancy	10768 Jul 16 21:30	10°♍35'47	-4.9m
retrograde	10768 Jul 27 13:43	12°♍42'47	
evening set	10768 Aug 11 07:19	8°♍25'54	
inferior conj	10768 Aug 17 11:31	4°♍46'36	0°34'51
minimum elong	10768 Aug 17 12:51	4°♍44'32	0°34'08
min. Earth dist.	10768 Aug 17 02:12	5°♍00'56	0.27381 AU
desc. node	10768 Aug 19 18:00	3°♍23'24	
morning rise	10768 Aug 23 19:06	1°♍04'42	
	10768 Aug 25 22:39	30°℞♌	
direct	10768 Sep 07 08:57	26°♌57'59	
greatest brilliancy	10768 Sep 17 01:29	28°♌41'38	-4.8m
	10768 Sep 20 09:34	0°♍	
morning max el	10768 Oct 26 11:32	27°♍22'17	45°55'40
	10768 Oct 29 04:29	0°♎	
	10768 Nov 26 18:40	0°♏	
asc. node	10768 Dec 10 16:57	15°♏36'23	
	10768 Dec 23 05:24	0°♐	
	10769 Jan 17 15:52	0°♑	
	10769 Feb 11 12:28	0°♒	
	10769 Mar 08 00:26	0°♓	
desc. node	10769 Apr 01 10:03	0°♈11'09	
	10769 Apr 01 06:27	0°♈	
morning set	10769 Apr 24 20:26	29°♈23'57	
	10769 Apr 25 07:58	0°♉	
	10769 May 19 06:19	0°♊	
superior conj	10769 Jun 04 06:22	20°♊06'26	-1°25'50
minimum elong	10769 Jun 04 11:13	20°♊21'39	1°26'20
max. Earth dist.	10769 Jun 04 04:32	20°♊00'40	1.71301 AU
	10769 Jun 12 03:18	0°♋	
	10769 Jul 06 00:56	0°♌	
evening rise	10769 Jul 14 16:11	10°♌48'41	
asc. node	10769 Jul 23 03:45	21°♌24'47	
	10769 Jul 30 00:57	0°♍	
	10769 Aug 23 04:47	0°♎	
	10769 Sep 16 14:03	0°♏	
	10769 Oct 11 07:32	0°♐	
	10769 Nov 05 13:49	0°♑	
desc. node	10769 Nov 11 23:25	7°♑27'46	
	10769 Dec 01 16:37	0°♒	
	10769 Dec 29 09:35	0°♓	
evening max el	10770 Jan 10 07:42	11°♓55'51	45°59'19
	10770 Jan 30 23:54	0°♈	
greatest brilliancy	10770 Feb 18 17:11	10°♈47'46	-4.8m
retrograde	10770 Feb 28 12:22	12°♈34'23	
asc. node	10770 Mar 05 00:02	12°♈10'10	
evening set	10770 Mar 15 07:13	8°♈18'43	
inferior conj	10770 Mar 21 09:44	4°♈41'31	4°02'27
minimum elong	10770 Mar 21 01:15	4°♈54'41	4°00'01
min. Earth dist.	10770 Mar 21 12:26	4°♈37'20	0.27526 AU
morning rise	10770 Mar 26 18:51	1°♈27'00	
	10770 Mar 29 12:20	30°℞♓	
direct	10770 Apr 11 07:42	26°♓42'13	
greatest brilliancy	10770 Apr 21 15:15	28°♓41'22	-4.9m
	10770 Apr 24 18:53	0°♈	
morning max el	10770 May 31 17:31	29°♈23'05	46°56'58
	10770 Jun 01 08:10	0°♉	
desc. node	10770 Jun 24 22:07	25°♉17'06	
	10770 Jun 29 02:30	0°♊	
	10770 Jul 24 22:15	0°♋	
	10770 Aug 19 00:14	0°♌	
	10770 Sep 12 18:46	0°♍	
	10770 Oct 07 09:40	0°♎	
asc. node	10770 Oct 15 17:31	10°♎10'35	
	10770 Oct 31 21:55	0°♏	
	10770 Nov 25 07:50	0°♐	
morning set	10770 Dec 01 06:12	7°♐18'22	
	10770 Dec 19 16:03	0°♑	
max. Earth dist.	10771 Jan 06 01:48	21°♑28'50	1.73114 AU
superior conj	10771 Jan 06 22:47	22°♑33'37	1°01'46
minimum elong	10771 Jan 07 08:34	23°♑03'49	1°01'58
	10771 Jan 12 23:26	0°♒	
desc. node	10771 Feb 04 09:25	27°♒41'13	
	10771 Feb 06 06:20	0°♓	
evening rise	10771 Feb 13 21:45	9°♓26'47	
	10771 Mar 02 12:25	0°♈	
	10771 Mar 26 17:26	0°♉	
	10771 Apr 19 22:13	0°♊	
	10771 May 14 05:20	0°♋	
asc. node	10771 May 28 05:39	17°♋09'56	
	10771 Jun 07 19:05	0°♌	
	10771 Jul 02 22:19	0°♍	
	10771 Jul 29 05:05	0°♎	
evening max el	10771 Aug 18 13:24	21°♎24'59	46°20'31
	10771 Aug 27 12:35	0°♏	
desc. node	10771 Sep 17 04:29	16°♏13'45	
greatest brilliancy	10771 Sep 26 13:21	20°♏57'18	-4.8m
retrograde	10771 Oct 07 09:28	23°♏06'59	

evening set	10771 Oct 24 17:22	17°♏24'37	
inferior conj	10771 Oct 28 21:36	14°♏50'28	-8°02'29
minimum elong	10771 Oct 28 14:11	15°♏02'06	8°01'15
min. Earth dist.	10771 Oct 28 07:18	15°♏12'53	0.28827 AU
morning rise	10771 Nov 01 11:09	12°♏38'25	
direct	10771 Nov 19 05:42	6°♏41'03	
greatest brilliancy	10771 Nov 29 04:13	8°♏27'54	-4.7m
	10771 Dec 30 21:42	0°♐	
morning max el	10772 Jan 07 02:34	6°♐44'49	45°43'43
asc. node	10772 Jan 08 04:30	7°♐47'45	
	10772 Jan 29 14:39	0°♑	
	10772 Feb 25 04:47	0°♒	
	10772 Mar 21 13:34	0°♓	
	10772 Apr 15 07:01	0°♈	
desc. node	10772 Apr 28 23:17	16°♈48'52	
	10772 May 09 15:08	0°♉	
	10772 Jun 02 17:25	0°♊	
	10772 Jun 26 16:45	0°♋	
morning set	10772 Jul 09 08:31	15°♋51'16	
	10772 Jul 20 15:38	0°♌	
	10772 Aug 13 15:49	0°♍	
superior conj	10772 Aug 17 16:33	5°♍01'41	-0°04'55
minimum elong	10772 Aug 17 17:48	5°♍05'35	0°05'09
behind sun begin	10772 Aug 16 18:22	3°♍52'30	
behind sun end	10772 Aug 18 17:14	6°♍18'38	
asc. node	10772 Aug 19 16:47	7°♍32'01	
max. Earth dist.	10772 Aug 20 07:19	8°♍17'18	1.72070 AU
	10772 Sep 06 18:03	0°♎	
evening rise	10772 Sep 24 21:24	22°♎30'13	
	10772 Sep 30 22:50	0°♏	
	10772 Oct 25 07:06	0°♐	
	10772 Nov 18 20:26	0°♑	
desc. node	10772 Dec 09 10:40	24°♑54'01	
	10772 Dec 13 16:31	0°♒	
	10773 Jan 07 20:58	0°♓	
	10773 Feb 02 12:46	0°♈	
	10773 Mar 01 01:38	0°♉	
evening max el	10773 Mar 23 17:34	23°♉53'41	46°37'23
	10773 Mar 30 00:13	0°♊	
asc. node	10773 Apr 01 10:22	2°♊16'23	
greatest brilliancy	10773 May 03 06:52	24°♊28'41	-4.9m
retrograde	10773 May 12 22:27	26°♊14'18	
evening set	10773 May 31 01:47	19°♊57'33	
inferior conj	10773 Jun 02 13:41	18°♊26'11	9°06'27
minimum elong	10773 Jun 02 17:31	18°♊20'18	9°05'41
min. Earth dist.	10773 Jun 02 18:45	18°♊18'24	0.27181 AU
morning rise	10773 Jun 05 09:15	16°♊43'20	
direct	10773 Jun 23 06:41	10°♊36'12	
greatest brilliancy	10773 Jul 03 02:11	12°♊25'40	-4.9m
desc. node	10773 Jul 22 09:21	23°♊54'48	
	10773 Jul 29 16:53	0°♋	
morning max el	10773 Aug 12 14:35	13°♋05'09	46°42'02
	10773 Aug 28 21:00	0°♌	
	10773 Sep 24 18:52	0°♍	
	10773 Oct 20 14:28	0°♎	
asc. node	10773 Nov 12 06:28	26°♎54'38	
	10773 Nov 14 20:24	0°♏	
	10773 Dec 09 17:09	0°♐	
	10774 Jan 03 07:17	0°♑	
	10774 Jan 27 16:55	0°♒	
morning set	10774 Feb 08 05:02	14°♒12'12	
	10774 Feb 20 23:22	0°♓	
desc. node	10774 Mar 03 22:36	13°♓36'28	
max. Earth dist.	10774 Mar 15 21:39	28°♓28'35	1.72150 AU
	10774 Mar 17 03:02	0°♈	
superior conj	10774 Mar 19 00:23	2°♈21'13	-0°35'38
minimum elong	10774 Mar 18 16:17	1°♈55'57	0°35'13
	10774 Apr 10 04:01	0°♉	
evening rise	10774 Apr 27 12:51	21°♉44'21	
	10774 May 04 03:05	0°♊	
	10774 May 28 01:58	0°♋	
	10774 Jun 21 03:01	0°♌	
asc. node	10774 Jun 24 17:18	4°♌28'11	
	10774 Jul 15 08:49	0°♍	
	10774 Aug 08 22:38	0°♎	
	10774 Sep 03 02:05	0°♏	
	10774 Sep 29 07:05	0°♐	
desc. node	10774 Oct 14 14:44	16°♐32'38	
	10774 Oct 27 22:19	0°♑	
evening max el	10774 Oct 28 14:35	0°♑39'16	45°50'03
greatest brilliancy	10774 Dec 06 15:32	28°♑53'29	-4.7m
	10774 Dec 10 15:57	0°♒	
retrograde	10774 Dec 16 10:46	0°♒37'19	
	10774 Dec 22 01:18	30°℞♑	
evening set	10775 Jan 02 05:29	25°♑15'13	
inferior conj	10775 Jan 06 19:06	22°♑27'01	-6°19'29
minimum elong	10775 Jan 07 05:14	22°♑11'05	6°16'49
min. Earth dist.	10775 Jan 07 09:47	22°♑03'57	0.28724 AU
morning rise	10775 Jan 12 04:46	19°♑09'38	
direct	10775 Jan 28 05:26	14°♑11'59	
asc. node	10775 Feb 04 15:30	15°♑14'35	
greatest brilliancy	10775 Feb 08 04:16	16°♑24'35	-4.8m
	10775 Mar 01 15:47	0°♒	
morning max el	10775 Mar 19 00:04	15°♒53'37	46°18'05
	10775 Apr 01 15:23	0°♓	
	10775 Apr 28 10:02	0°♈	
	10775 May 23 18:47	0°♉	
desc. node	10775 May 27 12:00	4°♉28'34	
	10775 Jun 17 11:19	0°♊	
	10775 Jul 11 19:49	0°♋	
	10775 Aug 05 01:06	0°♌	
	10775 Aug 29 05:51	0°♍	
asc. node	10775 Sep 17 06:03	23°♍33'08	
morning set	10775 Sep 20 14:24	27°♍41'52	
	10775 Sep 22 11:02	0°♎	
	10775 Oct 16 16:48	0°♏	
superior conj	10775 Oct 28 03:46	14°♏09'56	1°18'43
minimum elong	10775 Oct 27 20:29	13°♏47'25	1°18'55
max. Earth dist.	10775 Oct 29 15:33	16°♏00'28	1.73038 AU
	10775 Nov 09 23:21	0°♐	
evening rise	10775 Dec 03 20:31	29°♐26'27	
	10775 Dec 04 07:26	0°♑	
	10775 Dec 28 17:43	0°♒	
desc. node	10776 Jan 06 22:40	11°♒16'29	
	10776 Jan 22 06:23	0°♓	
	10776 Feb 15 21:07	0°♈	
	10776 Mar 11 14:30	0°♉	
	10776 Apr 05 13:51	0°♊	
asc. node	10776 Apr 28 20:36	27°♊20'58	
	10776 May 01 03:50	0°♋	
	10776 May 28 06:24	0°♌	
evening max el	10776 Jun 04 19:13	7°♌45'19	46°52'03
	10776 Jun 29 22:11	0°♍	
greatest brilliancy	10776 Jul 14 13:43	8°♍17'50	-4.9m
retrograde	10776 Jul 25 03:31	10°♍22'44	
evening set	10776 Aug 08 22:32	6°♍04'55	
min. Earth dist.	10776 Aug 14 17:26	2°♍39'52	0.27342 AU
inferior conj	10776 Aug 15 01:24	2°♍27'37	0°57'59
minimum elong	10776 Aug 15 03:37	2°♍24'11	0°56'58
desc. node	10776 Aug 18 20:02	0°♍10'35	
	10776 Aug 19 03:19	30°℞♌	

morning rise	10776 Aug 21 09:17	28°♌44'58	
direct	10776 Sep 04 22:00	24°♌39'28	
greatest brilliancy	10776 Sep 14 15:41	26°♌23'40	-4.8m
	10776 Sep 22 14:27	0°♍	
morning max el	10776 Oct 24 00:47	25°♍04'20	45°56'50
	10776 Oct 29 01:33	0°♎	
	10776 Nov 26 09:46	0°♏	
asc. node	10776 Dec 09 18:54	15°♏02'51	
	10776 Dec 22 18:16	0°♐	
	10777 Jan 17 03:40	0°♑	
	10777 Feb 10 23:41	0°♒	
	10777 Mar 07 11:20	0°♓	
desc. node	10777 Mar 31 11:54	29°♓43'33	
	10777 Mar 31 17:12	0°♈	
morning set	10777 Apr 22 07:31	26°♈55'07	
	10777 Apr 24 18:38	0°♉	
	10777 May 18 16:58	0°♊	
superior conj	10777 Jun 01 17:44	17°♊37'55	-1°26'34
minimum elong	10777 Jun 01 21:33	17°♊49'55	1°27'05
max. Earth dist.	10777 Jun 01 07:41	17°♊06'22	1.71303 AU
	10777 Jun 11 13:56	0°♋	
	10777 Jul 05 11:34	0°♌	
evening rise	10777 Jul 12 03:57	8°♌22'02	
asc. node	10777 Jul 22 05:46	20°♌57'46	
	10777 Jul 29 11:38	0°♍	
	10777 Aug 22 15:34	0°♎	
	10777 Sep 16 01:05	0°♏	
	10777 Oct 10 19:03	0°♐	
	10777 Nov 05 02:17	0°♑	
desc. node	10777 Nov 11 01:17	6°♑56'01	
	10777 Dec 01 06:59	0°♒	
	10777 Dec 29 04:33	0°♓	
evening max el	10778 Jan 07 21:21	9°♓38'30	45°58'15
	10778 Jan 31 17:13	0°♈	
greatest brilliancy	10778 Feb 16 06:56	8°♈28'46	-4.8m
retrograde	10778 Feb 26 01:58	10°♈15'33	
asc. node	10778 Mar 04 02:04	9°♈31'56	
evening set	10778 Mar 12 19:36	6°♈01'10	
inferior conj	10778 Mar 18 23:42	2°♈22'09	3°41'22
minimum elong	10778 Mar 18 15:49	2°♈34'22	3°39'05
min. Earth dist.	10778 Mar 19 03:12	2°♈16'44	0.27554 AU
	10778 Mar 22 20:45	30°♓℞	
morning rise	10778 Mar 24 11:32	29°♓03'58	
direct	10778 Apr 08 21:41	24°♓22'04	
greatest brilliancy	10778 Apr 19 07:06	26°♓23'05	-4.9m
	10778 Apr 26 20:52	0°♈	
morning max el	10778 May 29 07:51	27°♈02'49	46°56'27
	10778 Jun 01 05:39	0°♉	
desc. node	10778 Jun 24 00:12	24°♉37'18	
	10778 Jun 28 18:11	0°♊	
	10778 Jul 24 11:40	0°♋	
	10778 Aug 18 12:28	0°♌	
	10778 Sep 12 06:16	0°♍	
	10778 Oct 06 20:40	0°♎	
asc. node	10778 Oct 14 19:21	9°♎43'04	
	10778 Oct 31 08:34	0°♏	
	10778 Nov 24 18:16	0°♐	
morning set	10778 Nov 28 23:34	5°♐11'56	
	10778 Dec 19 02:24	0°♑	
max. Earth dist.	10779 Jan 03 22:17	19°♑31'50	1.73136 AU
superior conj	10779 Jan 04 15:36	20°♑25'17	1°04'03
minimum elong	10779 Jan 05 01:19	20°♑55'17	1°04'16
	10779 Jan 12 09:50	0°♒	
desc. node	10779 Feb 03 11:26	27°♒14'55	
	10779 Feb 05 16:52	0°♓	

evening rise	10779 Feb 11 13:09	7°♓13'21	
	10779 Mar 01 23:09	0°♈	
	10779 Mar 26 04:24	0°♉	
	10779 Apr 19 09:30	0°♊	
	10779 May 13 17:04	0°♋	
asc. node	10779 May 27 07:36	16°♋38'54	
	10779 Jun 07 07:35	0°♌	
	10779 Jul 02 12:10	0°♍	
	10779 Jul 28 21:50	0°♎	
evening max el	10779 Aug 16 05:02	19°♎11'07	46°22'03
	10779 Aug 27 15:11	0°♏	
desc. node	10779 Sep 16 06:29	14°♏53'10	
greatest brilliancy	10779 Sep 24 03:56	18°♏44'24	-4.8m
retrograde	10779 Oct 05 02:05	20°♏56'01	
evening set	10779 Oct 22 05:56	15°♏18'23	
min. Earth dist.	10779 Oct 25 21:56	13°♏03'50	0.28787 AU
inferior conj	10779 Oct 26 13:25	12°♏39'39	-7°54'19
minimum elong	10779 Oct 26 05:28	12°♏52'05	7°52'57
morning rise	10779 Oct 30 05:12	10°♏24'34	
direct	10779 Nov 16 21:19	4°♏30'53	
greatest brilliancy	10779 Nov 26 18:36	6°♏17'04	-4.7m
	10779 Dec 30 22:13	0°♐	
morning max el	10780 Jan 04 18:44	4°♐35'34	45°43'16
asc. node	10780 Jan 07 06:35	7°♐01'22	
	10780 Jan 29 06:33	0°♑	
	10780 Feb 24 18:04	0°♒	
	10780 Mar 21 01:43	0°♓	
	10780 Apr 14 18:35	0°♈	
desc. node	10780 Apr 28 01:09	16°♈19'38	
	10780 May 09 02:21	0°♉	
	10780 Jun 02 04:23	0°♊	
	10780 Jun 26 03:33	0°♋	
morning set	10780 Jul 06 20:52	13°♋25'56	
	10780 Jul 20 02:21	0°♌	
	10780 Aug 13 02:27	0°♍	
superior conj	10780 Aug 15 06:04	2°♍41'01	-0°08'36
minimum elong	10780 Aug 15 08:13	2°♍47'45	0°08'48
behind sun begin	10780 Aug 14 11:21	1°♍42'40	
behind sun end	10780 Aug 16 05:05	3°♍52'49	
max. Earth dist.	10780 Aug 17 21:59	6°♍00'20	1.72033 AU
asc. node	10780 Aug 18 18:39	7°♍04'44	
	10780 Sep 06 04:39	0°♎	
evening rise	10780 Sep 22 13:25	20°♎18'24	
	10780 Sep 30 09:27	0°♏	
	10780 Oct 24 17:50	0°♐	
	10780 Nov 18 07:27	0°♑	
desc. node	10780 Dec 08 12:42	24°♑25'50	
	10780 Dec 13 04:02	0°♒	
	10781 Jan 07 09:21	0°♓	
	10781 Feb 02 02:39	0°♈	
	10781 Feb 28 18:38	0°♉	
evening max el	10781 Mar 21 08:18	21°♉34'27	46°35'58
	10781 Mar 30 02:37	0°♊	
asc. node	10781 Mar 31 12:14	1°♊17'12	
greatest brilliancy	10781 Apr 30 19:14	22°♊03'06	-4.9m
retrograde	10781 May 10 11:34	23°♊48'52	
evening set	10781 May 28 15:41	17°♊30'35	
inferior conj	10781 May 31 02:28	16°♊00'44	9°09'57
minimum elong	10781 May 31 05:22	15°♊56'17	9°09'17
min. Earth dist.	10781 May 31 06:50	15°♊54'00	0.27190 AU
morning rise	10781 Jun 02 19:04	14°♊22'13	
direct	10781 Jun 20 20:08	8°♊10'47	
greatest brilliancy	10781 Jun 30 14:12	9°♊59'07	-4.9m
desc. node	10781 Jul 21 11:23	22°♊43'26	
	10781 Jul 29 22:49	0°♋	
morning max el	10781 Aug 10 04:25	10°♋43'17	46°43'21

	10781 Aug 28 14:58	0°♌	
	10781 Sep 24 09:16	0°♍	
	10781 Oct 20 03:09	0°♎	
asc. node	10781 Nov 11 08:21	26°♎24'59	
	10781 Nov 14 08:07	0°♏	
	10781 Dec 09 04:18	0°♐	
	10782 Jan 02 18:07	0°♑	
	10782 Jan 27 03:36	0°♒	
morning set	10782 Feb 05 21:04	12°♒00'37	
	10782 Feb 20 10:00	0°♓	
desc. node	10782 Mar 03 00:27	13°♓09'12	
max. Earth dist.	10782 Mar 13 10:05	26°♓04'51	1.72194 AU
superior conj	10782 Mar 16 14:03	0°♈01'10	-0°32'14
minimum elong	10782 Mar 16 06:38	29°♓38'05	0°31'50
	10782 Mar 16 13:41	0°♈	
	10782 Apr 09 14:46	0°♉	
evening rise	10782 Apr 25 01:05	19°♉18'22	
	10782 May 03 13:59	0°♊	
	10782 May 27 13:02	0°♋	
	10782 Jun 20 14:18	0°♌	
asc. node	10782 Jun 23 19:19	3°♌59'12	
	10782 Jul 14 20:26	0°♍	
	10782 Aug 08 10:49	0°♎	
	10782 Sep 02 15:21	0°♏	
	10782 Sep 28 22:40	0°♐	
desc. node	10782 Oct 13 16:39	15°♐50'19	
evening max el	10782 Oct 26 05:44	28°♐26'46	45°50'32
	10782 Oct 27 20:40	0°♑	
greatest brilliancy	10782 Dec 04 07:20	26°♑43'19	-4.7m
retrograde	10782 Dec 14 01:43	28°♑26'40	
evening set	10782 Dec 31 00:13	23°♑00'20	
inferior conj	10783 Jan 04 11:03	20°♑16'03	-6°33'15
minimum elong	10783 Jan 04 21:09	20°♑00'11	6°30'40
min. Earth dist.	10783 Jan 05 01:33	19°♑53'15	0.28758 AU
morning rise	10783 Jan 09 17:50	17°♑02'24	
direct	10783 Jan 25 21:27	12°♑00'50	
asc. node	10783 Feb 03 17:26	13°♑28'11	
greatest brilliancy	10783 Feb 05 20:04	14°♑12'40	-4.8m
	10783 Mar 01 22:56	0°♒	
morning max el	10783 Mar 16 14:22	13°♒36'19	46°16'29
	10783 Apr 01 09:01	0°♓	
	10783 Apr 28 00:17	0°♈	
	10783 May 23 07:35	0°♉	
desc. node	10783 May 26 14:02	3°♉56'30	
	10783 Jun 16 23:23	0°♊	
	10783 Jul 11 07:26	0°♋	
	10783 Aug 04 12:23	0°♌	
	10783 Aug 28 16:52	0°♍	
asc. node	10783 Sep 16 07:52	23°♍05'07	
morning set	10783 Sep 18 05:40	25°♍26'57	
	10783 Sep 21 21:51	0°♎	
	10783 Oct 16 03:30	0°♏	
superior conj	10783 Oct 25 20:38	12°♏00'43	1°17'18
minimum elong	10783 Oct 25 12:51	11°♏36'42	1°17'29
max. Earth dist.	10783 Oct 27 08:45	13°♏52'20	1.73013 AU
	10783 Nov 09 10:02	0°♐	
evening rise	10783 Dec 01 13:20	27°♐17'25	
	10783 Dec 03 18:11	0°♑	
	10783 Dec 28 04:39	0°♒	
desc. node	10784 Jan 06 00:40	10°♒48'51	
	10784 Jan 21 17:35	0°♓	
	10784 Feb 15 08:46	0°♈	
	10784 Mar 11 02:48	0°♉	
	10784 Apr 05 03:14	0°♊	
asc. node	10784 Apr 27 22:37	26°♊43'09	
	10784 Apr 30 19:15	0°♋	
	10784 May 28 02:46	0°♌	
evening max el	10784 Jun 02 08:03	5°♌20'13	46°52'10
	10784 Jun 30 22:29	0°♍	
greatest brilliancy	10784 Jul 12 05:28	5°♍57'24	-4.9m
retrograde	10784 Jul 22 16:52	8°♍00'38	
evening set	10784 Aug 06 13:36	3°♍41'11	
inferior conj	10784 Aug 12 14:58	0°♍06'21	1°21'17
minimum elong	10784 Aug 12 18:05	0°♍01'34	1°19'57
min. Earth dist.	10784 Aug 12 08:35	0°♍16'11	0.27312 AU
	10784 Aug 12 19:06	30°℞♌	
desc. node	10784 Aug 17 21:59	26°♌57'20	
morning rise	10784 Aug 18 23:00	26°♌23'18	
direct	10784 Sep 02 10:40	22°♌18'17	
greatest brilliancy	10784 Sep 12 06:12	24°♌03'53	-4.8m
	10784 Sep 24 02:14	0°♍	
morning max el	10784 Oct 21 14:13	22°♍45'09	45°58'15
	10784 Oct 28 22:29	0°♎	
	10784 Nov 26 01:05	0°♏	
asc. node	10784 Dec 08 20:58	14°♏28'49	
	10784 Dec 22 07:24	0°♐	
	10785 Jan 16 15:44	0°♑	
	10785 Feb 10 11:10	0°♒	
	10785 Mar 06 22:31	0°♓	
desc. node	10785 Mar 30 13:46	29°♓15'09	
	10785 Mar 31 04:13	0°♈	
morning set	10785 Apr 19 19:07	24°♈27'12	
	10785 Apr 24 05:35	0°♉	
	10785 May 18 03:52	0°♊	
max. Earth dist.	10785 May 29 14:07	14°♊21'33	1.71310 AU
superior conj	10785 May 30 05:29	15°♊09'50	-1°27'06
minimum elong	10785 May 30 08:16	15°♊18'34	1°27'38
	10785 Jun 11 00:50	0°♋	
	10785 Jul 04 22:31	0°♌	
evening rise	10785 Jul 09 15:55	5°♌54'58	
asc. node	10785 Jul 21 07:38	20°♌29'14	
	10785 Jul 28 22:41	0°♍	
	10785 Aug 22 02:48	0°♎	
	10785 Sep 15 12:36	0°♏	
	10785 Oct 10 07:05	0°♐	
	10785 Nov 04 15:18	0°♑	
desc. node	10785 Nov 10 03:22	6°♑23'23	
	10785 Nov 30 22:00	0°♒	
	10785 Dec 29 00:32	0°♓	
evening max el	10786 Jan 05 11:43	7°♓22'05	45°57'25
	10786 Feb 01 17:16	0°♈	
greatest brilliancy	10786 Feb 13 20:20	6°♈08'53	-4.8m
retrograde	10786 Feb 23 16:13	7°♈56'20	
asc. node	10786 Mar 03 04:00	6°♈48'08	
evening set	10786 Mar 10 08:25	3°♈42'57	
inferior conj	10786 Mar 16 13:48	0°♈02'14	3°20'00
minimum elong	10786 Mar 16 06:34	0°♈13'26	3°17'54
min. Earth dist.	10786 Mar 16 17:47	29°♓56'06	0.27580 AU
	10786 Mar 16 15:15	30°℞♓	
morning rise	10786 Mar 22 04:15	26°♓40'42	
direct	10786 Apr 06 12:20	22°♓01'32	
greatest brilliancy	10786 Apr 16 22:36	24°♓03'50	-4.9m
	10786 Apr 28 06:19	0°♈	
morning max el	10786 May 26 23:04	24°♈44'10	46°55'56
	10786 Jun 01 02:38	0°♉	
desc. node	10786 Jun 23 02:10	23°♉56'56	
	10786 Jun 28 09:51	0°♊	
	10786 Jul 24 01:14	0°♋	
	10786 Aug 18 00:56	0°♌	
	10786 Sep 11 18:05	0°♍	
	10786 Oct 06 08:03	0°♎	

asc. node	10786 Oct 13 21:17	9°♎14'28	
	10786 Oct 30 19:39	0°♏	
	10786 Nov 24 05:09	0°♐	
morning set	10786 Nov 26 16:37	3°♐03'08	
	10786 Dec 18 13:12	0°♑	
superior conj	10787 Jan 02 08:09	18°♑14'57	1°06'14
minimum elong	10787 Jan 02 17:45	18°♑44'33	1°06'29
max. Earth dist.	10787 Jan 01 19:10	17°♑34'51	1.73149 AU
	10787 Jan 11 20:38	0°♒	
desc. node	10787 Feb 02 13:13	26°♒46'47	
	10787 Feb 05 03:47	0°♓	
evening rise	10787 Feb 09 04:26	4°♓58'33	
	10787 Mar 01 10:15	0°♈	
	10787 Mar 25 15:44	0°♉	
	10787 Apr 18 21:09	0°♊	
	10787 May 13 05:12	0°♋	
asc. node	10787 May 26 09:39	16°♋07'06	
	10787 Jun 06 20:28	0°♌	
	10787 Jul 02 02:27	0°♍	
	10787 Jul 28 15:15	0°♎	
evening max el	10787 Aug 13 21:09	16°♎57'29	46°23'23
	10787 Aug 27 19:57	0°♏	
desc. node	10787 Sep 15 08:23	13°♏28'32	
greatest brilliancy	10787 Sep 21 18:25	16°♏30'00	-4.8m
retrograde	10787 Oct 02 18:33	18°♏43'07	
evening set	10787 Oct 19 18:16	13°♏10'36	
min. Earth dist.	10787 Oct 23 12:21	10°♏53'02	0.28748 AU
inferior conj	10787 Oct 24 05:02	10°♏26'59	-7°45'21
minimum elong	10787 Oct 23 20:35	10°♏40'11	7°43'52
morning rise	10787 Oct 27 23:11	8°♏08'35	
direct	10787 Nov 14 13:08	2°♏19'00	
greatest brilliancy	10787 Nov 24 08:32	4°♏03'57	-4.7m
	10787 Dec 30 22:13	0°♐	
morning max el	10788 Jan 02 10:38	2°♐24'14	45°42'49
asc. node	10788 Jan 06 08:29	6°♐13'49	
	10788 Jan 28 22:40	0°♑	
	10788 Feb 24 07:39	0°♒	
	10788 Mar 20 14:09	0°♓	
	10788 Apr 14 06:24	0°♈	
desc. node	10788 Apr 27 03:06	15°♈49'54	
	10788 May 08 13:48	0°♉	
	10788 Jun 01 15:37	0°♊	
	10788 Jun 25 14:38	0°♋	
morning set	10788 Jul 04 09:25	11°♋00'22	
	10788 Jul 19 13:18	0°♌	
superior conj	10788 Aug 12 19:48	0°♍20'14	-0°12'14
minimum elong	10788 Aug 12 22:51	0°♍29'44	0°12'25
behind sun begin	10788 Aug 12 06:54	29°♌39'58	
behind sun end	10788 Aug 13 14:47	1°♍19'30	
	10788 Aug 12 13:19	0°♍	
max. Earth dist.	10788 Aug 15 14:50	3°♍49'22	1.71993 AU
asc. node	10788 Aug 17 20:29	6°♍36'39	
	10788 Sep 05 15:28	0°♎	
evening rise	10788 Sep 20 05:35	18°♎06'13	
	10788 Sep 29 20:18	0°♏	
	10788 Oct 24 04:52	0°♐	
	10788 Nov 17 18:48	0°♑	
desc. node	10788 Dec 07 14:38	23°♑56'15	
	10788 Dec 12 15:57	0°♒	
	10789 Jan 06 22:09	0°♓	
	10789 Feb 01 17:02	0°♈	
	10789 Feb 28 12:19	0°♉	
evening max el	10789 Mar 18 22:16	19°♉12'36	46°34'39
	10789 Mar 30 06:59	0°♊	
asc. node	10789 Mar 30 14:17	0°♊16'23	
greatest brilliancy	10789 Apr 28 08:08	19°♊37'40	-4.9m
retrograde	10789 May 08 00:12	21°♊22'55	
evening set	10789 May 26 05:05	15°♊04'12	
inferior conj	10789 May 28 15:21	13°♊34'57	9°12'23
minimum elong	10789 May 28 17:15	13°♊32'01	9°11'49
min. Earth dist.	10789 May 28 19:15	13°♊28'55	0.27197 AU
morning rise	10789 May 31 05:26	11°♊59'58	
direct	10789 Jun 18 09:15	5°♊44'57	
greatest brilliancy	10789 Jun 28 02:47	7°♊32'36	-4.9m
desc. node	10789 Jul 20 13:15	21°♊33'14	
	10789 Jul 30 03:03	0°♋	
morning max el	10789 Aug 07 17:19	8°♋18'25	46°44'42
	10789 Aug 28 08:41	0°♌	
	10789 Sep 23 23:38	0°♍	
	10789 Oct 19 15:53	0°♎	
asc. node	10789 Nov 10 10:23	25°♎55'25	
	10789 Nov 13 19:57	0°♏	
	10789 Dec 08 15:35	0°♐	
	10790 Jan 02 05:08	0°♑	
	10790 Jan 26 14:29	0°♒	
morning set	10790 Feb 03 12:47	9°♒47'22	
	10790 Feb 19 20:50	0°♓	
desc. node	10790 Mar 02 02:21	12°♓41'25	
max. Earth dist.	10790 Mar 10 21:46	23°♓38'13	1.72236 AU
superior conj	10790 Mar 14 03:28	27°♓39'50	-0°28'45
minimum elong	10790 Mar 13 20:48	27°♓19'04	0°28'22
	10790 Mar 16 00:32	0°♈	
	10790 Apr 09 01:40	0°♉	
evening rise	10790 Apr 22 13:10	16°♉51'32	
	10790 May 03 01:00	0°♊	
	10790 May 27 00:14	0°♋	
	10790 Jun 20 01:43	0°♌	
asc. node	10790 Jun 22 21:11	3°♌29'28	
	10790 Jul 14 08:11	0°♍	
	10790 Aug 07 23:09	0°♎	
	10790 Sep 02 04:47	0°♏	
	10790 Sep 28 14:32	0°♐	
desc. node	10790 Oct 12 18:45	15°♐07'55	
evening max el	10790 Oct 23 19:49	26°♐11'32	45°51'03
	10790 Oct 27 20:01	0°♑	
greatest brilliancy	10790 Dec 01 22:51	24°♑32'39	-4.7m
retrograde	10790 Dec 11 16:39	26°♑15'58	
evening set	10790 Dec 28 18:49	20°♑45'05	
inferior conj	10791 Jan 02 02:58	18°♑04'49	-6°46'16
minimum elong	10791 Jan 02 12:56	17°♑49'08	6°43'49
min. Earth dist.	10791 Jan 02 17:19	17°♑42'14	0.28797 AU
morning rise	10791 Jan 07 06:46	14°♑55'12	
direct	10791 Jan 23 13:07	9°♑49'10	
asc. node	10791 Feb 02 19:23	11°♑45'14	
greatest brilliancy	10791 Feb 03 12:24	12°♑01'04	-4.8m
	10791 Mar 02 04:05	0°♒	
morning max el	10791 Mar 14 04:41	11°♒18'37	46°14'52
	10791 Apr 01 02:26	0°♓	
	10791 Apr 27 14:30	0°♈	
	10791 May 22 20:23	0°♉	
desc. node	10791 May 25 16:01	3°♉24'12	
	10791 Jun 16 11:25	0°♊	
	10791 Jul 10 18:59	0°♋	
	10791 Aug 03 23:36	0°♌	
	10791 Aug 28 03:49	0°♍	
asc. node	10791 Sep 15 09:50	22°♍37'40	
morning set	10791 Sep 15 20:53	23°♍11'52	
	10791 Sep 21 08:38	0°♎	
	10791 Oct 15 14:10	0°♏	
superior conj	10791 Oct 23 13:33	9°♏51'51	1°15'47

minimum elong	10791 Oct 23 05:21	9°♏26'28	1°15'55
max. Earth dist.	10791 Oct 25 00:53	11°♏41'03	1.72988 AU
	10791 Nov 08 20:40	0°♐	
evening rise	10791 Nov 29 06:19	25°♐09'11	
	10791 Dec 03 04:51	0°♑	
	10791 Dec 27 15:30	0°♒	
desc. node	10792 Jan 05 02:31	10°♒20'58	
	10792 Jan 21 04:46	0°♓	
	10792 Feb 14 20:26	0°♈	
	10792 Mar 10 15:12	0°♉	
	10792 Apr 04 16:46	0°♊	
asc. node	10792 Apr 27 00:39	26°♊05'03	
	10792 Apr 30 10:55	0°♋	
	10792 May 27 23:48	0°♌	
evening max el	10792 May 30 20:47	2°♌55'02	46°52'32
	10792 Jul 02 08:21	0°♍	
greatest brilliancy	10792 Jul 09 20:32	3°♍36'25	-4.9m
retrograde	10792 Jul 20 06:31	5°♍38'56	
evening set	10792 Aug 04 04:47	1°♍17'14	
	10792 Aug 06 11:20	30°℞♌	
inferior conj	10792 Aug 10 04:29	27°♌45'10	1°44'26
minimum elong	10792 Aug 10 08:28	27°♌39'04	1°42'49
min. Earth dist.	10792 Aug 09 23:21	27°♌53'04	0.27283 AU
morning rise	10792 Aug 16 12:29	24°♌02'19	
desc. node	10792 Aug 16 23:59	23°♌47'10	
direct	10792 Aug 30 23:23	19°♌57'06	
greatest brilliancy	10792 Sep 09 20:26	21°♌44'09	-4.8m
	10792 Sep 25 03:25	0°♍	
morning max el	10792 Oct 19 04:32	20°♍28'31	45°59'42
	10792 Oct 28 18:30	0°♎	
	10792 Nov 25 15:59	0°♏	
asc. node	10792 Dec 07 22:47	13°♏54'50	
	10792 Dec 21 20:14	0°♐	
	10793 Jan 16 03:31	0°♑	
	10793 Feb 09 22:25	0°♒	
	10793 Mar 06 09:29	0°♓	
desc. node	10793 Mar 29 15:46	28°♓47'36	
	10793 Mar 30 15:04	0°♈	
morning set	10793 Apr 17 06:29	21°♈58'59	
	10793 Apr 23 16:23	0°♉	
	10793 May 17 14:39	0°♊	
max. Earth dist.	10793 May 26 21:40	11°♊40'33	1.71317 AU
superior conj	10793 May 27 16:43	12°♊40'25	-1°27'28
minimum elong	10793 May 27 18:26	12°♊45'50	1°28'00
	10793 Jun 10 11:36	0°♋	
	10793 Jul 04 09:18	0°♌	
evening rise	10793 Jul 07 03:24	3°♌26'56	
asc. node	10793 Jul 20 09:29	20°♌01'08	
	10793 Jul 28 09:32	0°♍	
	10793 Aug 21 13:48	0°♎	
	10793 Sep 14 23:53	0°♏	
	10793 Oct 09 18:54	0°♐	
	10793 Nov 04 04:08	0°♑	
desc. node	10793 Nov 09 05:18	5°♑51'01	
	10793 Nov 30 12:55	0°♒	
	10793 Dec 28 20:49	0°♓	
evening max el	10794 Jan 03 02:56	5°♓08'53	45°56'37
	10794 Feb 03 02:06	0°♈	
greatest brilliancy	10794 Feb 11 09:29	3°♈50'05	-4.8m
retrograde	10794 Feb 21 06:37	5°♈38'10	
asc. node	10794 Mar 02 06:01	4°♈00'16	
evening set	10794 Mar 07 21:33	1°♈25'46	
	10794 Mar 10 10:10	30°℞♓	
inferior conj	10794 Mar 14 03:55	27°♓43'26	2°58'26
minimum elong	10794 Mar 13 21:22	27°♓53'33	2°56'32
min. Earth dist.	10794 Mar 14 08:06	27°♓36'58	0.27609 AU
morning rise	10794 Mar 19 20:49	24°♓18'41	
direct	10794 Apr 04 03:23	19°♓42'20	
greatest brilliancy	10794 Apr 14 13:31	21°♓44'57	-4.9m
	10794 Apr 29 05:43	0°♈	
morning max el	10794 May 24 14:22	22°♈26'30	46°55'06
	10794 May 31 22:42	0°♉	
desc. node	10794 Jun 22 04:01	23°♉17'10	
	10794 Jun 28 01:06	0°♊	
	10794 Jul 23 14:31	0°♋	
	10794 Aug 17 13:08	0°♌	
	10794 Sep 11 05:36	0°♍	
	10794 Oct 05 19:05	0°♎	
asc. node	10794 Oct 12 23:14	8°♎47'01	
	10794 Oct 30 06:22	0°♏	
	10794 Nov 23 15:40	0°♐	
morning set	10794 Nov 24 09:42	0°♐55'32	
	10794 Dec 17 23:38	0°♑	
max. Earth dist.	10794 Dec 30 15:25	15°♑36'59	1.73160 AU
superior conj	10794 Dec 31 00:55	16°♑06'16	1°08'19
minimum elong	10794 Dec 31 10:20	16°♑35'20	1°08'36
	10795 Jan 11 07:06	0°♒	
desc. node	10795 Feb 01 15:09	26°♒20'09	
	10795 Feb 04 14:21	0°♓	
evening rise	10795 Feb 06 19:56	2°♓45'28	
	10795 Feb 28 20:58	0°♈	
	10795 Mar 25 02:42	0°♉	
	10795 Apr 18 08:28	0°♊	
	10795 May 12 17:03	0°♋	
asc. node	10795 May 25 11:30	15°♋35'29	
	10795 Jun 06 09:09	0°♌	
	10795 Jul 01 16:38	0°♍	
	10795 Jul 28 08:49	0°♎	
evening max el	10795 Aug 11 13:23	14°♎44'43	46°24'48
	10795 Aug 28 02:28	0°♏	
desc. node	10795 Sep 14 10:29	12°♏02'07	
greatest brilliancy	10795 Sep 19 09:33	14°♏17'06	-4.8m
retrograde	10795 Sep 30 10:42	16°♏30'48	
evening set	10795 Oct 17 06:36	11°♏03'44	
min. Earth dist.	10795 Oct 21 02:52	8°♏42'53	0.28702 AU
inferior conj	10795 Oct 21 20:36	8°♏15'12	-7°35'49
minimum elong	10795 Oct 21 11:43	8°♏29'04	7°34'10
morning rise	10795 Oct 25 17:12	5°♏53'14	
direct	10795 Nov 12 04:58	0°♏08'13	
greatest brilliancy	10795 Nov 21 22:14	1°♏51'34	-4.7m
	10795 Dec 30 20:39	0°♐	
morning max el	10795 Dec 31 01:37	0°♐11'58	45°42'23
asc. node	10796 Jan 05 10:27	5°♐28'28	
	10796 Jan 28 14:04	0°♑	
	10796 Feb 23 20:42	0°♒	
	10796 Mar 20 02:06	0°♓	
	10796 Apr 13 17:45	0°♈	
desc. node	10796 Apr 26 05:01	15°♈21'21	
	10796 May 08 00:49	0°♉	
	10796 Jun 01 02:26	0°♊	
	10796 Jun 25 01:20	0°♋	
morning set	10796 Jul 01 21:48	8°♋35'23	
	10796 Jul 18 23:56	0°♌	
superior conj	10796 Aug 10 09:10	27°♌59'12	-0°15'54
minimum elong	10796 Aug 10 13:06	28°♌11'29	0°16'04
behind sun begin	10796 Aug 10 10:38	28°♌03'48	
behind sun end	10796 Aug 10 15:33	28°♌19'09	
	10796 Aug 11 23:52	0°♍	
max. Earth dist.	10796 Aug 13 06:13	1°♍34'39	1.71953 AU
asc. node	10796 Aug 16 22:29	6°♍09'57	
	10796 Sep 05 01:59	0°♎	

evening rise	10796 Sep 17 21:13	15°♎53'18	
	10796 Sep 29 06:51	0°♏	
	10796 Oct 23 15:33	0°♐	
	10796 Nov 17 05:49	0°♑	
desc. node	10796 Dec 06 16:30	23°♑27'35	
	10796 Dec 12 03:31	0°♒	
	10797 Jan 06 10:39	0°♓	
	10797 Feb 01 07:11	0°♈	
	10797 Feb 28 05:58	0°♉	
evening max el	10797 Mar 16 11:29	16°♉50'12	46°33'20
asc. node	10797 Mar 29 16:21	29°♉15'31	
	10797 Mar 30 12:42	0°♊	
greatest brilliancy	10797 Apr 25 21:37	17°♊14'36	-4.9m
retrograde	10797 May 05 12:37	18°♊59'02	
evening set	10797 May 23 18:03	12°♊40'48	
inferior conj	10797 May 26 04:25	11°♊11'15	9°13'49
minimum elong	10797 May 26 05:19	11°♊09'53	9°13'17
min. Earth dist.	10797 May 26 08:07	11°♊05'32	0.27205 AU
morning rise	10797 May 28 16:35	9°♊39'00	
direct	10797 Jun 15 22:04	3°♊21'02	
greatest brilliancy	10797 Jun 25 16:04	5°♊08'40	-4.9m
desc. node	10797 Jul 19 15:19	20°♊26'51	
	10797 Jul 30 05:04	0°♋	
morning max el	10797 Aug 05 05:35	5°♋53'02	46°45'54
	10797 Aug 28 01:36	0°♌	
	10797 Sep 23 13:31	0°♍	
	10797 Oct 19 04:16	0°♎	
asc. node	10797 Nov 09 12:13	25°♎26'05	
	10797 Nov 13 07:26	0°♏	
	10797 Dec 08 02:33	0°♐	
	10798 Jan 01 15:48	0°♑	
	10798 Jan 26 01:01	0°♒	
morning set	10798 Feb 01 04:35	7°♒35'26	
	10798 Feb 19 07:20	0°♓	
desc. node	10798 Mar 01 04:18	12°♓14'48	
max. Earth dist.	10798 Mar 08 11:34	21°♓19'11	1.72282 AU
superior conj	10798 Mar 11 17:06	25°♓20'11	-0°25'16
minimum elong	10798 Mar 11 11:11	25°♓01'49	0°24'52
	10798 Mar 15 11:04	0°♈	
	10798 Apr 08 12:17	0°♉	
evening rise	10798 Apr 20 01:36	14°♉26'52	
	10798 May 02 11:44	0°♊	
	10798 May 26 11:06	0°♋	
	10798 Jun 19 12:47	0°♌	
asc. node	10798 Jun 21 23:06	3°♌00'57	
	10798 Jul 13 19:36	0°♍	
	10798 Aug 07 11:12	0°♎	
	10798 Sep 01 18:02	0°♏	
	10798 Sep 28 06:24	0°♐	
desc. node	10798 Oct 11 20:41	14°♐25'11	
evening max el	10798 Oct 21 09:43	23°♐56'30	45°51'39
	10798 Oct 27 20:14	0°♑	
greatest brilliancy	10798 Nov 29 14:09	22°♑22'28	-4.7m
retrograde	10798 Dec 09 08:09	24°♑06'23	
evening set	10798 Dec 26 13:28	18°♑30'45	
inferior conj	10798 Dec 30 18:59	15°♑54'34	-6°58'39
minimum elong	10798 Dec 31 04:46	15°♑39'11	6°56'19
min. Earth dist.	10798 Dec 31 09:02	15°♑32'28	0.28834 AU
morning rise	10799 Jan 04 19:46	12°♑49'22	
direct	10799 Jan 21 04:47	7°♑38'28	
greatest brilliancy	10799 Feb 01 04:53	9°♑50'48	-4.8m
asc. node	10799 Feb 01 21:27	10°♑07'04	
	10799 Mar 02 07:01	0°♒	
morning max el	10799 Mar 11 19:41	9°♒03'32	46°13'18
	10799 Mar 31 19:09	0°♓	
	10799 Apr 27 04:18	0°♈	
	10799 May 22 08:53	0°♉	
desc. node	10799 May 24 17:47	2°♉52'03	
	10799 Jun 15 23:11	0°♊	
	10799 Jul 10 06:17	0°♋	
	10799 Aug 03 10:33	0°♌	
	10799 Aug 27 14:31	0°♍	
morning set	10799 Sep 13 12:16	20°♍58'02	
asc. node	10799 Sep 14 11:43	22°♍10'42	
	10799 Sep 20 19:10	0°♎	
	10799 Oct 15 00:38	0°♏	
superior conj	10799 Oct 21 06:30	7°♏43'34	1°14'09
minimum elong	10799 Oct 20 21:53	7°♏16'56	1°14'14
max. Earth dist.	10799 Oct 22 17:21	9°♏31'19	1.72967 AU
	10799 Nov 08 07:08	0°♐	
evening rise	10799 Nov 26 23:17	23°♐01'24	
	10799 Dec 02 15:24	0°♑	
	10799 Dec 27 02:13	0°♒	
desc. node	10800 Jan 04 04:26	9°♒53'45	
	10800 Jan 20 15:49	0°♓	
	10800 Feb 14 08:00	0°♈	
	10800 Mar 10 03:32	0°♉	
	10800 Apr 04 06:18	0°♊	
asc. node	10800 Apr 26 02:31	25°♊26'26	
	10800 Apr 30 02:44	0°♋	
	10800 May 27 21:31	0°♌	
evening max el	10800 May 28 10:20	0°♌32'15	46°52'51
	10800 Jul 04 11:17	0°♍	
greatest brilliancy	10800 Jul 07 11:12	1°♍15'17	-4.9m
retrograde	10800 Jul 17 20:51	3°♍17'41	
	10800 Jul 30 16:49	30°℞♌	
evening set	10800 Aug 01 20:11	28°♌53'26	
inferior conj	10800 Aug 07 18:00	25°♌24'17	2°07'29
minimum elong	10800 Aug 07 22:49	25°♌16'53	2°05'35
min. Earth dist.	10800 Aug 07 13:46	25°♌30'46	0.27254 AU
morning rise	10800 Aug 14 01:48	21°♌42'09	
desc. node	10800 Aug 16 01:59	20°♌41'12	
direct	10800 Aug 28 12:34	17°♌36'20	
greatest brilliancy	10800 Sep 07 10:04	19°♌24'16	-4.8m
	10800 Sep 25 21:38	0°♍	
morning max el	10800 Oct 16 19:34	18°♍14'06	46°01'08
	10800 Oct 28 13:44	0°♎	
	10800 Nov 25 06:35	0°♏	
asc. node	10800 Dec 07 00:44	13°♏21'40	
	10800 Dec 21 08:55	0°♐	
	10801 Jan 15 15:15	0°♑	
	10801 Feb 09 09:38	0°♒	
	10801 Mar 05 20:27	0°♓	
desc. node	10801 Mar 28 17:35	28°♓19'34	
	10801 Mar 30 01:54	0°♈	
morning set	10801 Apr 14 18:02	19°♈31'29	
	10801 Apr 23 03:11	0°♉	
	10801 May 17 01:27	0°♊	
max. Earth dist.	10801 May 24 07:03	9°♊05'16	1.71329 AU
superior conj	10801 May 25 03:59	10°♊11'02	-1°27'40
minimum elong	10801 May 25 04:37	10°♊13'03	1°28'12
	10801 Jun 09 22:25	0°♋	
	10801 Jul 03 20:09	0°♌	
evening rise	10801 Jul 04 14:54	0°♌58'40	
asc. node	10801 Jul 19 11:30	19°♌33'23	
	10801 Jul 27 20:28	0°♍	
	10801 Aug 21 00:52	0°♎	
	10801 Sep 14 11:14	0°♏	
	10801 Oct 09 06:48	0°♐	
	10801 Nov 03 17:06	0°♑	
desc. node	10801 Nov 08 07:11	5°♑18'11	

	10801 Nov 30 04:09	0°♒	
	10801 Dec 28 17:59	0°♓	
evening max el	10801 Dec 31 18:37	2°♓56'29	45°55'41
	10802 Feb 05 04:02	0°♈	
greatest brilliancy	10802 Feb 08 23:13	1°♈31'36	-4.8m
retrograde	10802 Feb 18 20:50	3°♈19'28	
asc. node	10802 Mar 01 08:01	1°♈07'05	
	10802 Mar 03 18:55	30°℞♓	
evening set	10802 Mar 05 11:00	29°♓08'09	
inferior conj	10802 Mar 11 18:05	25°♓24'20	2°36'37
minimum elong	10802 Mar 11 12:17	25°♓33'20	2°34'56
min. Earth dist.	10802 Mar 11 22:37	25°♓17'19	0.27638 AU
morning rise	10802 Mar 17 13:15	21°♓56'24	
direct	10802 Apr 01 18:31	17°♓23'01	
greatest brilliancy	10802 Apr 12 04:17	19°♓25'28	-4.9m
	10802 Apr 29 23:10	0°♈	
morning max el	10802 May 22 05:00	20°♈06'47	46°54'10
	10802 May 31 18:18	0°♉	
desc. node	10802 Jun 21 06:05	22°♉37'58	
	10802 Jun 27 16:18	0°♊	
	10802 Jul 23 03:52	0°♋	
	10802 Aug 17 01:29	0°♌	
	10802 Sep 10 17:17	0°♍	
	10802 Oct 05 06:19	0°♎	
asc. node	10802 Oct 12 01:03	8°♎18'32	
	10802 Oct 29 17:16	0°♏	
morning set	10802 Nov 22 03:00	28°♏48'03	
	10802 Nov 23 02:22	0°♐	
	10802 Dec 17 10:16	0°♑	
superior conj	10802 Dec 28 17:56	13°♑57'49	1°10'17
minimum elong	10802 Dec 29 03:07	14°♑26'08	1°10'36
max. Earth dist.	10802 Dec 28 10:57	13°♑36'18	1.73171 AU
	10803 Jan 10 17:48	0°♒	
desc. node	10803 Jan 31 17:09	25°♒52'56	
evening rise	10803 Feb 04 11:29	0°♓31'49	
	10803 Feb 04 01:11	0°♓	
	10803 Feb 28 08:00	0°♈	
	10803 Mar 24 13:59	0°♉	
	10803 Apr 17 20:07	0°♊	
	10803 May 12 05:14	0°♋	
asc. node	10803 May 24 13:28	15°♋03'18	
	10803 Jun 05 22:13	0°♌	
	10803 Jul 01 07:18	0°♍	
	10803 Jul 28 03:09	0°♎	
evening max el	10803 Aug 09 05:02	12°♎29'15	46°26'04
	10803 Aug 28 12:07	0°♏	
desc. node	10803 Sep 13 12:26	10°♏31'23	
greatest brilliancy	10803 Sep 17 01:24	12°♏03'45	-4.8m
retrograde	10803 Sep 28 02:22	14°♏17'11	
evening set	10803 Oct 14 18:55	8°♏55'45	
min. Earth dist.	10803 Oct 18 17:48	6°♏31'00	0.28652 AU
inferior conj	10803 Oct 19 12:08	6°♏02'18	-7°25'28
minimum elong	10803 Oct 19 02:54	6°♏16'46	7°23'42
morning rise	10803 Oct 23 11:15	3°♏36'31	
	10803 Oct 30 14:45	30°℞♎	
direct	10803 Nov 09 20:25	27°♎56'22	
greatest brilliancy	10803 Nov 19 12:15	29°♎38'20	-4.7m
	10803 Nov 20 12:48	0°♏	
morning max el	10803 Dec 28 15:40	27°♏56'29	45°42'07
	10803 Dec 30 18:33	0°♐	
asc. node	10804 Jan 04 12:30	4°♐43'09	
	10804 Jan 28 05:33	0°♑	
	10804 Feb 23 09:59	0°♒	
	10804 Mar 19 14:22	0°♓	
	10804 Apr 13 05:30	0°♈	
desc. node	10804 Apr 25 06:53	14°♈51'22	
	10804 May 07 12:15	0°♉	
	10804 May 31 13:40	0°♊	
	10804 Jun 24 12:25	0°♋	
morning set	10804 Jun 29 09:53	6°♋08'11	
	10804 Jul 18 10:56	0°♌	
superior conj	10804 Aug 07 22:22	25°♌36'27	-0°19'33
minimum elong	10804 Aug 08 03:09	25°♌51'25	0°19'41
max. Earth dist.	10804 Aug 10 20:01	29°♌13'49	1.71913 AU
	10804 Aug 11 10:49	0°♍	
asc. node	10804 Aug 16 00:20	5°♍41'38	
	10804 Sep 04 12:54	0°♎	
evening rise	10804 Sep 15 12:43	13°♎38'38	
	10804 Sep 28 17:50	0°♏	
	10804 Oct 23 02:42	0°♐	
	10804 Nov 16 17:17	0°♑	
desc. node	10804 Dec 05 18:33	22°♑58'13	
	10804 Dec 11 15:32	0°♒	
	10805 Jan 05 23:37	0°♓	
	10805 Jan 31 21:54	0°♈	
	10805 Feb 28 00:32	0°♉	
evening max el	10805 Mar 13 23:49	14°♉24'16	46°31'51
asc. node	10805 Mar 28 18:12	28°♉11'03	
	10805 Mar 30 21:33	0°♊	
greatest brilliancy	10805 Apr 23 10:57	14°♊49'22	-4.9m
retrograde	10805 May 03 00:54	16°♊33'14	
evening set	10805 May 21 06:09	10°♊16'11	
inferior conj	10805 May 23 17:21	8°♊45'28	9°14'10
minimum elong	10805 May 23 17:14	8°♊45'39	9°13'38
min. Earth dist.	10805 May 23 21:00	8°♊39'48	0.27216 AU
morning rise	10805 May 26 04:17	7°♊15'00	
direct	10805 Jun 13 10:23	0°♊54'46	
greatest brilliancy	10805 Jun 23 05:37	2°♊43'05	-4.9m
desc. node	10805 Jul 18 17:19	19°♊20'25	
	10805 Jul 30 06:23	0°♋	
morning max el	10805 Aug 02 18:04	3°♋26'26	46°47'14
	10805 Aug 27 18:42	0°♌	
	10805 Sep 23 03:43	0°♍	
	10805 Oct 18 16:59	0°♎	
asc. node	10805 Nov 08 14:08	24°♎55'50	
	10805 Nov 12 19:19	0°♏	
	10805 Dec 07 13:56	0°♐	
	10806 Jan 01 02:54	0°♑	
	10806 Jan 25 11:57	0°♒	
morning set	10806 Jan 29 20:43	5°♒23'22	
	10806 Feb 18 18:12	0°♓	
desc. node	10806 Feb 28 06:08	11°♓46'44	
max. Earth dist.	10806 Mar 06 04:27	19°♓08'37	1.72326 AU
superior conj	10806 Mar 09 07:01	23°♓00'22	-0°21'45
minimum elong	10806 Mar 09 01:54	22°♓44'27	0°21'22
	10806 Mar 14 21:58	0°♈	
	10806 Apr 07 23:18	0°♉	
evening rise	10806 Apr 17 14:17	12°♉01'50	
	10806 May 01 22:54	0°♊	
	10806 May 25 22:26	0°♋	
	10806 Jun 19 00:21	0°♌	
asc. node	10806 Jun 21 01:06	2°♌31'10	
	10806 Jul 13 07:33	0°♍	
	10806 Aug 06 23:48	0°♎	
	10806 Sep 01 07:54	0°♏	
	10806 Sep 27 23:05	0°♐	
desc. node	10806 Oct 10 22:37	13°♐40'26	
evening max el	10806 Oct 19 00:02	21°♐41'11	45°52'23
	10806 Oct 27 22:23	0°♑	
greatest brilliancy	10806 Nov 27 04:45	20°♑10'08	-4.7m
retrograde	10806 Dec 07 00:01	21°♑55'18	

evening set	10806 Dec 24 08:00	16°♑14'48	
inferior conj	10806 Dec 28 10:52	13°♑42'42	-7°10'31
minimum elong	10806 Dec 28 20:25	13°♑27'42	7°08'18
min. Earth dist.	10806 Dec 29 00:19	13°♑21'36	0.28868 AU
morning rise	10807 Jan 02 08:34	10°♑42'13	
direct	10807 Jan 18 20:36	5°♑26'12	
greatest brilliancy	10807 Jan 29 20:50	7°♑38'45	-4.8m
asc. node	10807 Jan 31 23:23	8°♑30'52	
	10807 Mar 02 08:54	0°♒	
morning max el	10807 Mar 09 11:32	6°♒49'44	46°11'55
	10807 Mar 31 11:54	0°♓	
	10807 Apr 26 18:16	0°♈	
	10807 May 21 21:37	0°♉	
desc. node	10807 May 23 19:51	2°♉20'01	
	10807 Jun 15 11:15	0°♊	
	10807 Jul 09 17:55	0°♋	
	10807 Aug 02 21:52	0°♌	
	10807 Aug 27 01:37	0°♍	
morning set	10807 Sep 11 03:12	18°♍41'28	
asc. node	10807 Sep 13 13:33	21°♍42'24	
	10807 Sep 20 06:05	0°♎	
	10807 Oct 14 11:26	0°♏	
superior conj	10807 Oct 18 23:01	5°♏32'50	1°12'22
minimum elong	10807 Oct 18 14:02	5°♏05'02	1°12'25
max. Earth dist.	10807 Oct 20 11:16	7°♏24'55	1.72945 AU
	10807 Nov 07 17:55	0°♐	
evening rise	10807 Nov 24 16:08	20°♐52'10	
	10807 Dec 02 02:17	0°♑	
	10807 Dec 26 13:19	0°♒	
desc. node	10808 Jan 03 06:26	9°♒25'39	
	10808 Jan 20 03:15	0°♓	
	10808 Feb 13 19:54	0°♈	
	10808 Mar 09 16:10	0°♉	
	10808 Apr 03 20:09	0°♊	
asc. node	10808 Apr 25 04:34	24°♊47'30	
	10808 Apr 29 18:58	0°♋	
evening max el	10808 May 26 00:40	28°♋11'01	46°53'00
	10808 May 27 20:19	0°♌	
greatest brilliancy	10808 Jul 05 01:25	28°♌52'44	-4.9m
	10808 Jul 08 14:08	0°♍	
retrograde	10808 Jul 15 11:15	0°♍55'00	
	10808 Jul 22 03:29	30°℞♌	
evening set	10808 Jul 30 11:41	26°♌28'09	
inferior conj	10808 Aug 05 07:21	23°♌01'55	2°30'31
minimum elong	10808 Aug 05 13:01	22°♌53'16	2°28'21
min. Earth dist.	10808 Aug 05 03:47	23°♌07'22	0.27230 AU
morning rise	10808 Aug 11 14:44	19°♌20'47	
desc. node	10808 Aug 15 03:57	17°♌37'59	
direct	10808 Aug 26 02:10	15°♌14'14	
greatest brilliancy	10808 Sep 04 23:07	17°♌02'19	-4.8m
	10808 Sep 26 11:44	0°♍	
morning max el	10808 Oct 14 10:42	15°♍58'51	46°02'30
	10808 Oct 28 08:47	0°♎	
	10808 Nov 24 21:16	0°♏	
asc. node	10808 Dec 06 02:48	12°♏48'17	
	10808 Dec 20 21:44	0°♐	
	10809 Jan 15 03:08	0°♑	
	10809 Feb 08 21:01	0°♒	
	10809 Mar 05 07:34	0°♓	
desc. node	10809 Mar 27 19:29	27°♓51'18	
	10809 Mar 29 12:54	0°♈	
morning set	10809 Apr 12 05:58	17°♈04'53	
	10809 Apr 22 14:05	0°♉	
	10809 May 16 12:18	0°♊	
max. Earth dist.	10809 May 21 16:57	6°♊31'28	1.71335 AU
superior conj	10809 May 22 15:38	7°♊42'46	-1°27'42
minimum elong	10809 May 22 15:11	7°♊41'20	1°28'13
	10809 Jun 09 09:15	0°♋	
evening rise	10809 Jul 02 02:36	28°♋30'57	
	10809 Jul 03 07:02	0°♌	
asc. node	10809 Jul 18 13:21	19°♌05'03	
	10809 Jul 27 07:28	0°♍	
	10809 Aug 20 12:03	0°♎	
	10809 Sep 13 22:43	0°♏	
	10809 Oct 08 18:52	0°♐	
	10809 Nov 03 06:19	0°♑	
desc. node	10809 Nov 07 09:16	4°♑45'25	
	10809 Nov 29 19:44	0°♒	
	10809 Dec 28 16:06	0°♓	
evening max el	10809 Dec 29 09:56	0°♓43'00	45°54'47
greatest brilliancy	10810 Feb 06 13:34	29°♓13'48	-4.8m
	10810 Feb 09 01:50	0°♈	
retrograde	10810 Feb 16 10:33	1°♈00'41	
	10810 Feb 23 12:44	30°℞♓	
asc. node	10810 Feb 28 09:58	28°♓09'11	
evening set	10810 Mar 03 00:41	26°♓50'16	
inferior conj	10810 Mar 09 08:17	23°♓05'22	2°14'29
minimum elong	10810 Mar 09 03:15	23°♓13'10	2°13'04
min. Earth dist.	10810 Mar 09 13:33	22°♓57'11	0.27665 AU
morning rise	10810 Mar 15 05:28	19°♓34'13	
direct	10810 Mar 30 09:17	15°♓03'45	
greatest brilliancy	10810 Apr 09 19:29	17°♓06'19	-4.9m
	10810 Apr 30 12:11	0°♈	
morning max el	10810 May 19 18:50	17°♈45'06	46°53'24
	10810 May 31 13:17	0°♉	
desc. node	10810 Jun 20 08:03	21°♉59'07	
	10810 Jun 27 07:10	0°♊	
	10810 Jul 22 16:57	0°♋	
	10810 Aug 16 13:35	0°♌	
	10810 Sep 10 04:47	0°♍	
	10810 Oct 04 17:24	0°♎	
asc. node	10810 Oct 11 03:00	7°♎50'45	
	10810 Oct 29 04:04	0°♏	
morning set	10810 Nov 19 20:06	26°♏40'10	
	10810 Nov 22 12:59	0°♐	
	10810 Dec 16 20:50	0°♑	
superior conj	10810 Dec 26 10:50	11°♑49'23	1°12'09
minimum elong	10810 Dec 26 19:43	12°♑16'45	1°12'29
max. Earth dist.	10810 Dec 26 04:37	11°♑30'10	1.73181 AU
	10811 Jan 10 04:23	0°♒	
desc. node	10811 Jan 30 18:56	25°♒25'27	
evening rise	10811 Feb 02 02:55	28°♒18'14	
	10811 Feb 03 11:54	0°♓	
	10811 Feb 27 18:55	0°♈	
	10811 Mar 24 01:10	0°♉	
	10811 Apr 17 07:40	0°♊	
	10811 May 11 17:19	0°♋	
asc. node	10811 May 23 15:30	14°♋31'47	
	10811 Jun 05 11:09	0°♌	
	10811 Jun 30 21:50	0°♍	
	10811 Jul 27 21:32	0°♎	
evening max el	10811 Aug 06 19:50	10°♎12'43	46°27'23
	10811 Aug 29 00:25	0°♏	
desc. node	10811 Sep 12 14:23	8°♏58'43	
greatest brilliancy	10811 Sep 14 17:43	9°♏52'07	-4.8m
retrograde	10811 Sep 25 17:53	12°♏05'04	
evening set	10811 Oct 12 07:24	6°♏49'04	
min. Earth dist.	10811 Oct 16 09:16	4°♏20'02	0.28606 AU
inferior conj	10811 Oct 17 03:52	3°♏50'55	-7°14'24
minimum elong	10811 Oct 16 18:18	4°♏05'53	7°12'31
morning rise	10811 Oct 21 05:34	1°♏21'08	

	10811 Oct 23 14:57	30°℞♎	
direct	10811 Nov 07 11:28	25°♎45'47	
greatest brilliancy	10811 Nov 17 03:10	27°♎27'07	-4.7m
	10811 Nov 23 04:07	0°♏	
morning max el	10811 Dec 26 05:32	25°♏41'14	45°41'51
	10811 Dec 30 15:20	0°♐	
asc. node	10812 Jan 03 14:23	3°♐58'47	
	10812 Jan 27 20:33	0°♑	
	10812 Feb 22 22:55	0°♒	
	10812 Mar 19 02:19	0°♓	
	10812 Apr 12 16:54	0°♈	
desc. node	10812 Apr 24 08:51	14°♈22'40	
	10812 May 06 23:21	0°♉	
	10812 May 31 00:35	0°♊	
	10812 Jun 23 23:13	0°♋	
morning set	10812 Jun 26 21:56	3°♋41'44	
	10812 Jul 17 21:36	0°♌	
superior conj	10812 Aug 05 11:47	23°♌15'27	-0°23'09
minimum elong	10812 Aug 05 17:24	23°♌33'01	0°23'16
max. Earth dist.	10812 Aug 08 07:30	26°♌46'54	1.71868 AU
	10812 Aug 10 21:23	0°♍	
asc. node	10812 Aug 15 02:11	5°♍14'26	
	10812 Sep 03 23:25	0°♎	
evening rise	10812 Sep 13 04:30	11°♎26'04	
	10812 Sep 28 04:24	0°♏	
	10812 Oct 22 13:27	0°♐	
	10812 Nov 16 04:22	0°♑	
desc. node	10812 Dec 04 20:28	22°♑29'33	
	10812 Dec 11 03:13	0°♒	
	10813 Jan 05 12:18	0°♓	
	10813 Jan 31 12:26	0°♈	
	10813 Feb 27 19:12	0°♉	
evening max el	10813 Mar 11 12:09	11°♉59'41	46°30'31
asc. node	10813 Mar 27 20:17	27°♉06'34	
	10813 Mar 31 08:54	0°♊	
greatest brilliancy	10813 Apr 20 23:54	12°♊24'59	-4.9m
retrograde	10813 Apr 30 13:36	14°♊09'01	
evening set	10813 May 18 17:37	7°♊53'52	
inferior conj	10813 May 21 06:19	6°♊21'00	9°13'21
minimum elong	10813 May 21 05:12	6°♊22'44	9°12'50
min. Earth dist.	10813 May 21 09:46	6°♊15'40	0.27228 AU
morning rise	10813 May 23 16:45	4°♊51'22	
	10813 Jun 02 09:24	30°℞♉	
direct	10813 Jun 10 22:54	28°♉29'39	
	10813 Jun 19 21:00	0°♊	
greatest brilliancy	10813 Jun 20 19:09	0°♊18'50	-4.9m
desc. node	10813 Jul 17 19:13	18°♊16'37	
	10813 Jul 30 06:02	0°♋	
morning max el	10813 Jul 31 07:43	1°♋03'57	46°48'37
	10813 Aug 27 11:01	0°♌	
	10813 Sep 22 17:17	0°♍	
	10813 Oct 18 05:09	0°♎	
asc. node	10813 Nov 07 16:08	24°♎27'24	
	10813 Nov 12 06:40	0°♏	
	10813 Dec 07 00:48	0°♐	
	10813 Dec 31 13:31	0°♑	
	10814 Jan 24 22:27	0°♒	
morning set	10814 Jan 27 13:00	3°♒13'00	
	10814 Feb 18 04:41	0°♓	
desc. node	10814 Feb 27 08:04	11°♓20'04	
max. Earth dist.	10814 Mar 03 21:57	17°♓01'12	1.72369 AU
superior conj	10814 Mar 06 20:53	20°♓41'34	-0°18'11
minimum elong	10814 Mar 06 16:35	20°♓28'13	0°17'50
	10814 Mar 14 08:30	0°♈	
	10814 Apr 07 09:56	0°♉	
evening rise	10814 Apr 15 02:56	9°♉38'03	
	10814 May 01 09:39	0°♊	
	10814 May 25 09:22	0°♋	
	10814 Jun 18 11:33	0°♌	
asc. node	10814 Jun 20 02:58	2°♌02'12	
	10814 Jul 12 19:09	0°♍	
	10814 Aug 06 12:05	0°♎	
	10814 Aug 31 21:27	0°♏	
	10814 Sep 27 15:33	0°♐	
desc. node	10814 Oct 10 00:45	12°♐57'09	
evening max el	10814 Oct 16 15:28	19°♐30'13	45°53'16
	10814 Oct 28 01:17	0°♑	
greatest brilliancy	10814 Nov 24 19:03	17°♑59'42	-4.7m
retrograde	10814 Dec 04 16:24	19°♑46'28	
evening set	10814 Dec 22 02:42	14°♑01'18	
inferior conj	10814 Dec 26 02:58	11°♑33'04	-7°21'31
minimum elong	10814 Dec 26 12:15	11°♑18'31	7°19'27
min. Earth dist.	10814 Dec 26 15:23	11°♑13'35	0.28902 AU
morning rise	10814 Dec 30 21:35	8°♑37'21	
direct	10815 Jan 16 13:10	3°♑16'20	
greatest brilliancy	10815 Jan 27 12:21	5°♑28'15	-4.8m
asc. node	10815 Jan 31 01:20	6°♑59'54	
	10815 Mar 02 08:54	0°♒	
morning max el	10815 Mar 07 04:16	4°♒39'35	46°10'16
	10815 Mar 31 03:55	0°♓	
	10815 Apr 26 07:46	0°♈	
	10815 May 21 09:56	0°♉	
desc. node	10815 May 22 21:48	1°♉48'43	
	10815 Jun 14 22:54	0°♊	
	10815 Jul 09 05:08	0°♋	
	10815 Aug 02 08:47	0°♌	
	10815 Aug 26 12:19	0°♍	
morning set	10815 Sep 08 18:10	16°♍26'06	
asc. node	10815 Sep 12 15:31	21°♍15'37	
	10815 Sep 19 16:39	0°♎	
	10815 Oct 13 21:54	0°♏	
superior conj	10815 Oct 16 15:39	3°♏23'29	1°10'29
minimum elong	10815 Oct 16 06:23	2°♏54'47	1°10'30
max. Earth dist.	10815 Oct 18 06:28	5°♏23'33	1.72917 AU
	10815 Nov 07 04:20	0°♐	
evening rise	10815 Nov 22 09:17	18°♐45'05	
	10815 Dec 01 12:45	0°♑	
	10815 Dec 25 23:58	0°♒	
desc. node	10816 Jan 02 08:18	8°♒58'32	
	10816 Jan 19 14:16	0°♓	
	10816 Feb 13 07:28	0°♈	
	10816 Mar 09 04:31	0°♉	
	10816 Apr 03 09:50	0°♊	
asc. node	10816 Apr 24 06:34	24°♊08'49	
	10816 Apr 29 11:15	0°♋	
evening max el	10816 May 23 15:39	25°♋52'03	46°53'06
	10816 May 27 19:53	0°♌	
greatest brilliancy	10816 Jul 02 15:50	26°♌31'07	-4.9m
retrograde	10816 Jul 13 01:27	28°♌32'39	
evening set	10816 Jul 28 03:18	24°♌03'19	
inferior conj	10816 Aug 02 20:37	20°♌40'02	2°53'16
minimum elong	10816 Aug 03 03:04	20°♌30'10	2°50'52
min. Earth dist.	10816 Aug 02 17:42	20°♌44'30	0.27205 AU
morning rise	10816 Aug 09 03:17	17°♌00'03	
desc. node	10816 Aug 14 05:58	14°♌39'44	
direct	10816 Aug 23 15:50	12°♌52'49	
greatest brilliancy	10816 Sep 02 11:46	14°♌40'24	-4.8m
	10816 Sep 26 21:54	0°♍	
morning max el	10816 Oct 12 01:23	13°♍43'12	46°03'53
	10816 Oct 28 03:01	0°♎	
	10816 Nov 24 11:27	0°♏	

asc. node	10816 Dec 05 04:35	12°♏15'10	
	10816 Dec 20 10:09	0°♐	
	10817 Jan 14 14:38	0°♑	
	10817 Feb 08 08:02	0°♒	
	10817 Mar 04 18:21	0°♓	
desc. node	10817 Mar 26 21:28	27°♓24'14	
	10817 Mar 28 23:35	0°♈	
morning set	10817 Apr 09 17:56	14°♈39'14	
	10817 Apr 22 00:45	0°♉	
	10817 May 15 22:58	0°♊	
max. Earth dist.	10817 May 18 23:30	3°♊47'44	1.71347 AU
superior conj	10817 May 20 03:02	5°♊14'12	-1°27'32
minimum elong	10817 May 20 01:30	5°♊09'24	1°28'03
	10817 Jun 08 19:58	0°♋	
evening rise	10817 Jun 29 13:43	26°♋01'42	
	10817 Jul 02 17:48	0°♌	
asc. node	10817 Jul 17 15:13	18°♌37'09	
	10817 Jul 26 18:19	0°♍	
	10817 Aug 19 23:04	0°♎	
	10817 Sep 13 10:04	0°♏	
	10817 Oct 08 06:50	0°♐	
	10817 Nov 02 19:27	0°♑	
desc. node	10817 Nov 06 11:12	4°♑12'29	
	10817 Nov 29 11:22	0°♒	
evening max el	10817 Dec 27 00:48	28°♒29'15	45°54'02
	10817 Dec 28 14:48	0°♓	
greatest brilliancy	10818 Feb 04 04:33	26°♓58'12	-4.8m
retrograde	10818 Feb 14 00:09	28°♓43'52	
asc. node	10818 Feb 27 11:59	25°♓09'04	
evening set	10818 Feb 28 14:52	24°♓33'53	
inferior conj	10818 Mar 06 22:49	20°♓48'25	1°52'30
minimum elong	10818 Mar 06 18:35	20°♓55'01	1°51'20
min. Earth dist.	10818 Mar 07 05:03	20°♓38'43	0.27695 AU
morning rise	10818 Mar 12 21:50	17°♓14'15	
direct	10818 Mar 27 23:51	12°♓46'20	
greatest brilliancy	10818 Apr 07 11:28	14°♓49'35	-4.9m
	10818 Apr 30 21:23	0°♈	
morning max el	10818 May 17 08:10	15°♈22'50	46°52'18
	10818 May 31 07:35	0°♉	
desc. node	10818 Jun 19 09:55	21°♉20'33	
	10818 Jun 26 21:47	0°♊	
	10818 Jul 22 05:57	0°♋	
	10818 Aug 16 01:41	0°♌	
	10818 Sep 09 16:16	0°♍	
	10818 Oct 04 04:28	0°♎	
asc. node	10818 Oct 10 04:56	7°♎23'02	
	10818 Oct 28 14:50	0°♏	
morning set	10818 Nov 17 12:58	24°♏31'33	
	10818 Nov 21 23:35	0°♐	
	10818 Dec 16 07:23	0°♑	
superior conj	10818 Dec 24 03:50	9°♑41'14	1°13'54
minimum elong	10818 Dec 24 12:22	10°♑07'34	1°14'17
max. Earth dist.	10818 Dec 23 21:12	9°♑20'47	1.73188 AU
	10819 Jan 09 14:59	0°♒	
desc. node	10819 Jan 29 20:53	24°♒58'39	
evening rise	10819 Jan 30 18:37	26°♒05'38	
	10819 Feb 02 22:35	0°♓	
	10819 Feb 27 05:46	0°♈	
	10819 Mar 23 12:16	0°♉	
	10819 Apr 16 19:10	0°♊	
	10819 May 11 05:26	0°♋	
asc. node	10819 May 22 17:20	13°♋59'31	
	10819 Jun 05 00:14	0°♌	
	10819 Jun 30 12:42	0°♍	
	10819 Jul 27 16:44	0°♎	
evening max el	10819 Aug 04 09:53	7°♎53'18	46°28'39
	10819 Aug 29 17:43	0°♏	
desc. node	10819 Sep 11 16:28	7°♏21'21	
greatest brilliancy	10819 Sep 12 09:35	7°♏38'18	-4.8m
retrograde	10819 Sep 23 09:04	9°♏51'15	
evening set	10819 Oct 09 19:29	4°♏40'23	
min. Earth dist.	10819 Oct 14 00:33	2°♏07'01	0.28557 AU
inferior conj	10819 Oct 14 19:14	1°♏37'47	-7°02'35
minimum elong	10819 Oct 14 09:23	1°♏53'12	7°00'33
	10819 Oct 17 10:17	30°℞♎	
morning rise	10819 Oct 18 23:36	29°♎04'04	
direct	10819 Nov 05 01:46	23°♎33'16	
greatest brilliancy	10819 Nov 14 18:09	25°♎14'44	-4.7m
	10819 Nov 24 19:59	0°♏	
morning max el	10819 Dec 23 19:29	23°♏25'31	45°41'48
	10819 Dec 30 11:40	0°♐	
asc. node	10820 Jan 02 16:23	3°♐14'45	
	10820 Jan 27 11:32	0°♑	
	10820 Feb 22 11:53	0°♒	
	10820 Mar 18 14:19	0°♓	
	10820 Apr 12 04:22	0°♈	
desc. node	10820 Apr 23 10:46	13°♈53'39	
	10820 May 06 10:29	0°♉	
	10820 May 30 11:33	0°♊	
	10820 Jun 23 10:06	0°♋	
morning set	10820 Jun 24 10:00	1°♋14'57	
	10820 Jul 17 08:26	0°♌	
superior conj	10820 Aug 03 00:56	20°♌52'54	-0°26'44
minimum elong	10820 Aug 03 07:22	21°♌13'03	0°26'51
max. Earth dist.	10820 Aug 05 16:35	24°♌11'44	1.71834 AU
	10820 Aug 10 08:10	0°♍	
asc. node	10820 Aug 14 04:12	4°♍47'05	
	10820 Sep 03 10:12	0°♎	
evening rise	10820 Sep 10 19:48	9°♎11'09	
	10820 Sep 27 15:15	0°♏	
	10820 Oct 22 00:30	0°♐	
	10820 Nov 15 15:46	0°♑	
desc. node	10820 Dec 03 22:21	21°♑59'49	
	10820 Dec 10 15:13	0°♒	
	10821 Jan 05 01:22	0°♓	
	10821 Jan 31 03:27	0°♈	
	10821 Feb 27 14:41	0°♉	
evening max el	10821 Mar 09 01:32	9°♉37'20	46°29'24
asc. node	10821 Mar 26 22:19	25°♉59'46	
	10821 Apr 01 00:22	0°♊	
greatest brilliancy	10821 Apr 18 12:24	10°♊00'04	-4.9m
retrograde	10821 Apr 28 02:58	11°♊45'02	
evening set	10821 May 16 04:39	5°♊32'28	
inferior conj	10821 May 18 19:27	3°♊56'37	9°11'34
minimum elong	10821 May 18 17:21	3°♊59'52	9°11'01
min. Earth dist.	10821 May 18 22:17	3°♊52'15	0.27238 AU
morning rise	10821 May 21 06:01	2°♊26'58	
	10821 May 25 12:49	30°℞♉	
direct	10821 Jun 08 12:12	26°♉04'49	
greatest brilliancy	10821 Jun 18 08:15	27°♉54'19	-4.9m
	10821 Jun 23 05:53	0°♊	
desc. node	10821 Jul 16 21:18	17°♊14'36	
morning max el	10821 Jul 28 22:16	28°♊43'27	46°49'41
	10821 Jul 30 04:45	0°♋	
	10821 Aug 27 03:14	0°♌	
	10821 Sep 22 07:02	0°♍	
	10821 Oct 17 17:37	0°♎	
asc. node	10821 Nov 06 17:58	23°♎57'17	
	10821 Nov 11 18:23	0°♏	
	10821 Dec 06 12:04	0°♐	
	10821 Dec 31 00:29	0°♑	

	10822 Jan 24 09:17	0°♒	
morning set	10822 Jan 25 05:04	1°♒01'02	
	10822 Feb 17 15:30	0°♓	
desc. node	10822 Feb 26 10:00	10°♓52'29	
max. Earth dist.	10822 Mar 01 15:19	14°♓52'24	1.72409 AU
superior conj	10822 Mar 04 10:38	18°♓21'26	-0°14'36
minimum elong	10822 Mar 04 07:12	18°♓10'45	0°14'15
behind sun begin	10822 Mar 03 19:43	17°♓35'07	
behind sun end	10822 Mar 04 18:40	18°♓46'23	
	10822 Mar 13 19:22	0°♈	
	10822 Apr 06 20:54	0°♉	
evening rise	10822 Apr 12 15:42	7°♉13'37	
	10822 Apr 30 20:44	0°♊	
	10822 May 24 20:35	0°♋	
	10822 Jun 17 23:00	0°♌	
asc. node	10822 Jun 19 04:54	1°♌32'39	
	10822 Jul 12 07:01	0°♍	
	10822 Aug 06 00:41	0°♎	
	10822 Aug 31 11:27	0°♏	
	10822 Sep 27 08:49	0°♐	
desc. node	10822 Oct 09 02:39	12°♐11'14	
evening max el	10822 Oct 14 07:36	17°♐19'29	45°53'57
	10822 Oct 28 06:45	0°♑	
greatest brilliancy	10822 Nov 22 09:18	15°♑47'22	-4.7m
retrograde	10822 Dec 02 08:30	17°♑35'19	
evening set	10822 Dec 19 21:09	11°♑45'53	
inferior conj	10822 Dec 23 18:49	9°♑21'18	-7°31'57
minimum elong	10822 Dec 24 03:45	9°♑07'18	7°30'02
min. Earth dist.	10822 Dec 24 06:05	9°♑03'38	0.28932 AU
morning rise	10822 Dec 28 10:14	6°♑30'23	
direct	10823 Jan 14 05:48	1°♑04'35	
greatest brilliancy	10823 Jan 25 03:08	3°♑15'06	-4.8m
asc. node	10823 Jan 30 03:25	5°♑30'20	
	10823 Mar 02 08:23	0°♒	
morning max el	10823 Mar 04 20:29	2°♒26'56	46°08'40
	10823 Mar 30 20:07	0°♓	
	10823 Apr 25 21:32	0°♈	
	10823 May 20 22:33	0°♉	
desc. node	10823 May 21 23:35	1°♉16'01	
	10823 Jun 14 10:51	0°♊	
	10823 Jul 08 16:38	0°♋	
	10823 Aug 01 19:59	0°♌	
	10823 Aug 25 23:17	0°♍	
morning set	10823 Sep 06 09:27	14°♍10'52	
asc. node	10823 Sep 11 17:24	20°♍47'47	
	10823 Sep 19 03:28	0°♎	
	10823 Oct 13 08:39	0°♏	
superior conj	10823 Oct 14 08:19	1°♏13'13	1°08'31
minimum elong	10823 Oct 13 22:48	0°♏43'48	1°08'29
max. Earth dist.	10823 Oct 16 02:49	3°♏24'44	1.72895 AU
	10823 Nov 06 15:06	0°♐	
evening rise	10823 Nov 20 02:16	16°♐36'12	
	10823 Nov 30 23:37	0°♑	
	10823 Dec 25 11:05	0°♒	
desc. node	10824 Jan 01 10:14	8°♒30'18	
	10824 Jan 19 01:45	0°♓	
	10824 Feb 12 19:30	0°♈	
	10824 Mar 08 17:23	0°♉	
	10824 Apr 03 00:04	0°♊	
asc. node	10824 Apr 23 08:27	23°♊28'08	
	10824 Apr 29 04:17	0°♋	
evening max el	10824 May 21 06:25	23°♋31'18	46°53'08
	10824 May 27 21:04	0°♌	
greatest brilliancy	10824 Jun 30 06:54	24°♌09'17	-4.9m
retrograde	10824 Jul 10 15:20	26°♌09'14	
evening set	10824 Jul 25 19:09	21°♌37'29	
inferior conj	10824 Jul 31 09:57	18°♌17'24	3°15'44
minimum elong	10824 Jul 31 17:07	18°♌06'23	3°13'08
min. Earth dist.	10824 Jul 31 07:55	18°♌20'30	0.27178 AU
morning rise	10824 Aug 06 15:34	14°♌38'37	
desc. node	10824 Aug 13 07:59	11°♌45'42	
direct	10824 Aug 21 05:12	10°♌30'43	
greatest brilliancy	10824 Aug 31 00:43	12°♌17'53	-4.8m
	10824 Sep 27 05:33	0°♍	
morning max el	10824 Oct 09 15:07	11°♍24'26	46°05'17
	10824 Oct 27 21:02	0°♎	
	10824 Nov 24 01:45	0°♏	
asc. node	10824 Dec 04 06:35	11°♏41'54	
	10824 Dec 19 22:50	0°♐	
	10825 Jan 14 02:29	0°♑	
	10825 Feb 07 19:27	0°♒	
	10825 Mar 04 05:32	0°♓	
desc. node	10825 Mar 25 23:17	26°♓55'29	
	10825 Mar 28 10:39	0°♈	
morning set	10825 Apr 07 05:40	12°♈11'47	
	10825 Apr 21 11:46	0°♉	
	10825 May 15 09:58	0°♊	
max. Earth dist.	10825 May 16 03:43	0°♊55'44	1.71361 AU
superior conj	10825 May 17 14:21	2°♊44'27	-1°27'13
minimum elong	10825 May 17 11:46	2°♊36'20	1°27'42
	10825 Jun 08 06:59	0°♋	
evening rise	10825 Jun 27 00:46	23°♋31'12	
	10825 Jul 02 04:53	0°♌	
asc. node	10825 Jul 16 17:14	18°♌08'46	
	10825 Jul 26 05:29	0°♍	
	10825 Aug 19 10:23	0°♎	
	10825 Sep 12 21:41	0°♏	
	10825 Oct 07 19:04	0°♐	
	10825 Nov 02 08:57	0°♑	
desc. node	10825 Nov 05 13:07	3°♑38'38	
	10825 Nov 29 03:35	0°♒	
evening max el	10825 Dec 24 14:41	26°♒12'09	45°53'04
	10825 Dec 28 15:01	0°♓	
greatest brilliancy	10826 Feb 01 19:26	24°♓40'58	-4.8m
retrograde	10826 Feb 11 13:28	26°♓25'38	
evening set	10826 Feb 26 05:03	22°♓15'23	
asc. node	10826 Feb 26 14:00	22°♓03'17	
inferior conj	10826 Mar 04 13:12	18°♓29'55	1°30'14
minimum elong	10826 Mar 04 09:47	18°♓35'14	1°29'20
min. Earth dist.	10826 Mar 04 20:38	18°♓18'19	0.27730 AU
morning rise	10826 Mar 10 13:55	14°♓53'01	
direct	10826 Mar 25 14:00	10°♓27'04	
greatest brilliancy	10826 Apr 05 03:57	12°♓32'01	-4.8m
	10826 May 01 04:33	0°♈	
morning max el	10826 May 14 21:25	12°♈59'11	46°51'23
	10826 May 31 01:48	0°♉	
desc. node	10826 Jun 18 12:00	20°♉42'05	
	10826 Jun 26 12:30	0°♊	
	10826 Jul 21 19:05	0°♋	
	10826 Aug 15 13:56	0°♌	
	10826 Sep 09 03:56	0°♍	
	10826 Oct 03 15:41	0°♎	
asc. node	10826 Oct 09 06:45	6°♎54'26	
	10826 Oct 28 01:44	0°♏	
morning set	10826 Nov 15 06:09	22°♏23'25	
	10826 Nov 21 10:19	0°♐	
	10826 Dec 15 18:03	0°♑	
superior conj	10826 Dec 21 21:08	7°♑33'37	1°15'32
minimum elong	10826 Dec 22 05:18	7°♑58'48	1°15'56
max. Earth dist.	10826 Dec 21 15:20	7°♑15'46	1.73200 AU

	10827 Jan 09 01:43	0°♒	
evening rise	10827 Jan 28 10:29	23°♒53'05	
desc. node	10827 Jan 28 22:52	24°♒31'17	
	10827 Feb 02 09:28	0°♓	
	10827 Feb 26 16:52	0°♈	
	10827 Mar 22 23:41	0°♉	
	10827 Apr 16 06:59	0°♊	
	10827 May 10 17:51	0°♋	
asc. node	10827 May 21 19:20	13°♋26'55	
	10827 Jun 04 13:37	0°♌	
	10827 Jun 30 03:57	0°♍	
	10827 Jul 27 12:39	0°♎	
evening max el	10827 Aug 01 23:59	5°♎33'41	46°30'03
	10827 Aug 30 17:20	0°♏	
greatest brilliancy	10827 Sep 10 01:00	5°♏23'42	-4.8m
desc. node	10827 Sep 10 18:25	5°♏40'05	
retrograde	10827 Sep 21 00:41	7°♏37'29	
evening set	10827 Oct 07 07:43	2°♏31'18	
	10827 Oct 11 11:58	30°℞♎	
min. Earth dist.	10827 Oct 11 15:46	29°♎54'05	0.28506 AU
inferior conj	10827 Oct 12 10:40	29°♎24'36	-6°50'05
minimum elong	10827 Oct 12 00:36	29°♎40'18	6°47'56
morning rise	10827 Oct 16 17:48	26°♎47'01	
direct	10827 Nov 02 16:09	21°♎20'38	
greatest brilliancy	10827 Nov 12 09:13	23°♎02'33	-4.7m
	10827 Nov 25 23:32	0°♏	
morning max el	10827 Dec 21 10:22	21°♏12'17	45°41'53
	10827 Dec 30 07:17	0°♐	
asc. node	10828 Jan 01 18:24	2°♐31'31	
	10828 Jan 27 02:16	0°♑	
	10828 Feb 22 00:46	0°♒	
	10828 Mar 18 02:19	0°♓	
	10828 Apr 11 15:54	0°♈	
desc. node	10828 Apr 22 12:36	13°♈24'03	
	10828 May 05 21:46	0°♉	
	10828 May 29 22:40	0°♊	
morning set	10828 Jun 21 21:39	28°♊46'31	
	10828 Jun 22 21:05	0°♋	
	10828 Jul 16 19:18	0°♌	
superior conj	10828 Jul 31 13:46	18°♌29'14	-0°30'18
minimum elong	10828 Jul 31 21:00	18°♌51'50	0°30'23
max. Earth dist.	10828 Aug 03 02:58	21°♌40'28	1.71797 AU
	10828 Aug 09 18:58	0°♍	
asc. node	10828 Aug 13 06:01	4°♍19'04	
	10828 Sep 02 21:00	0°♎	
evening rise	10828 Sep 08 11:05	6°♎56'13	
	10828 Sep 27 02:07	0°♏	
	10828 Oct 21 11:31	0°♐	
	10828 Nov 15 03:07	0°♑	
desc. node	10828 Dec 03 00:23	21°♑30'48	
	10828 Dec 10 03:10	0°♒	
	10829 Jan 04 14:23	0°♓	
	10829 Jan 30 18:32	0°♈	
	10829 Feb 27 10:40	0°♉	
evening max el	10829 Mar 06 15:40	7°♉17'10	46°27'57
asc. node	10829 Mar 26 00:11	24°♉50'35	
	10829 Apr 01 21:19	0°♊	
greatest brilliancy	10829 Apr 16 00:05	7°♊33'56	-4.9m
retrograde	10829 Apr 25 16:20	9°♊20'08	
evening set	10829 May 13 14:52	3°♊11'05	
inferior conj	10829 May 16 08:19	1°♊31'15	9°08'43
minimum elong	10829 May 16 05:15	1°♊35'59	9°08'06
min. Earth dist.	10829 May 16 10:19	1°♊28'11	0.27252 AU
morning rise	10829 May 18 19:38	0°♊00'35	
	10829 May 18 20:01	30°℞♉	
direct	10829 Jun 06 01:46	23°♉39'11	
greatest brilliancy	10829 Jun 15 20:46	25°♉28'19	-4.9m
	10829 Jun 25 04:31	0°♊	
desc. node	10829 Jul 15 23:15	16°♊13'21	
morning max el	10829 Jul 26 12:59	26°♊23'03	46°50'48
	10829 Jul 30 02:42	0°♋	
	10829 Aug 26 19:10	0°♌	
	10829 Sep 21 20:35	0°♍	
	10829 Oct 17 05:53	0°♎	
asc. node	10829 Nov 05 19:53	23°♎28'00	
	10829 Nov 11 05:53	0°♏	
	10829 Dec 05 23:06	0°♐	
	10829 Dec 30 11:15	0°♑	
morning set	10830 Jan 22 21:41	28°♑51'29	
	10830 Jan 23 19:54	0°♒	
	10830 Feb 17 02:05	0°♓	
desc. node	10830 Feb 25 11:50	10°♓25'17	
max. Earth dist.	10830 Feb 27 08:18	12°♓43'14	1.72447 AU
superior conj	10830 Mar 02 00:57	16°♓03'53	-0°11'02
minimum elong	10830 Mar 01 22:21	15°♓55'51	0°10'42
behind sun begin	10830 Mar 01 03:57	14°♓58'41	
behind sun end	10830 Mar 02 16:46	16°♓53'02	
	10830 Mar 13 06:00	0°♈	
	10830 Apr 06 07:39	0°♉	
evening rise	10830 Apr 10 04:48	4°♉50'55	
	10830 Apr 30 07:38	0°♊	
	10830 May 24 07:42	0°♋	
	10830 Jun 17 10:23	0°♌	
asc. node	10830 Jun 18 06:54	1°♌03'31	
	10830 Jul 11 18:50	0°♍	
	10830 Aug 05 13:15	0°♎	
	10830 Aug 31 01:27	0°♏	
	10830 Sep 27 02:12	0°♐	
desc. node	10830 Oct 08 04:35	11°♐25'21	
evening max el	10830 Oct 11 23:49	15°♐09'35	45°54'47
	10830 Oct 28 14:02	0°♑	
greatest brilliancy	10830 Nov 20 00:11	13°♑36'55	-4.7m
retrograde	10830 Nov 30 00:25	15°♑25'24	
evening set	10830 Dec 17 15:44	9°♑32'05	
inferior conj	10830 Dec 21 10:52	7°♑11'01	-7°41'49
minimum elong	10830 Dec 21 19:23	6°♑57'37	7°40'02
min. Earth dist.	10830 Dec 21 21:01	6°♑55'04	0.28955 AU
morning rise	10830 Dec 25 22:59	4°♑24'48	
	10831 Jan 04 13:42	30°℞♐	
direct	10831 Jan 11 22:30	28°♐54'29	
	10831 Jan 19 13:07	0°♑	
greatest brilliancy	10831 Jan 22 17:50	1°♑03'10	-4.8m
asc. node	10831 Jan 29 05:19	4°♑04'43	
	10831 Mar 02 06:23	0°♒	
morning max el	10831 Mar 02 12:04	0°♒14'00	46°07'09
	10831 Mar 30 11:35	0°♓	
	10831 Apr 25 10:46	0°♈	
	10831 May 20 10:44	0°♉	
desc. node	10831 May 21 01:38	0°♉45'18	
	10831 Jun 13 22:27	0°♊	
	10831 Jul 08 03:52	0°♋	
	10831 Aug 01 06:56	0°♌	
	10831 Aug 25 10:03	0°♍	
morning set	10831 Sep 04 00:13	11°♍54'40	
asc. node	10831 Sep 10 19:14	20°♍20'28	
	10831 Sep 18 14:04	0°♎	
superior conj	10831 Oct 12 00:34	29°♎02'32	1°06'24
minimum elong	10831 Oct 11 14:52	28°♎32'31	1°06'20
	10831 Oct 12 19:08	0°♏	
max. Earth dist.	10831 Oct 13 22:18	1°♏24'04	1.72863 AU
	10831 Nov 06 01:34	0°♐	

evening rise	10831 Nov 17 19:04	14°♐27'44	
	10831 Nov 30 10:11	0°♑	
	10831 Dec 24 21:53	0°♒	
desc. node	10831 Dec 31 12:12	8°♒03'08	
	10832 Jan 18 12:54	0°♓	
	10832 Feb 12 07:11	0°♈	
	10832 Mar 08 05:53	0°♉	
	10832 Apr 02 13:58	0°♊	
asc. node	10832 Apr 22 10:31	22°♊49'02	
	10832 Apr 28 21:08	0°♋	
evening max el	10832 May 18 20:11	21°♋09'20	46°52'53
	10832 May 27 23:04	0°♌	
greatest brilliancy	10832 Jun 27 22:13	21°♌48'37	-4.9m
retrograde	10832 Jul 08 04:26	23°♌46'31	
evening set	10832 Jul 23 11:02	19°♌12'03	
inferior conj	10832 Jul 28 23:12	15°♌55'30	3°37'59
minimum elong	10832 Jul 29 07:05	15°♌43'24	3°35'11
min. Earth dist.	10832 Jul 28 22:24	15°♌56'44	0.27160 AU
morning rise	10832 Aug 04 03:29	12°♌18'04	
desc. node	10832 Aug 12 09:55	8°♌57'26	
direct	10832 Aug 18 18:08	8°♌09'02	
greatest brilliancy	10832 Aug 28 14:19	9°♌56'30	-4.8m
	10832 Sep 27 10:43	0°♍	
morning max el	10832 Oct 07 04:07	9°♍04'14	46°06'46
	10832 Oct 27 14:22	0°♎	
	10832 Nov 23 15:35	0°♏	
asc. node	10832 Dec 03 08:37	11°♏09'50	
	10832 Dec 19 11:04	0°♐	
	10833 Jan 13 13:53	0°♑	
	10833 Feb 07 06:25	0°♒	
	10833 Mar 03 16:17	0°♓	
desc. node	10833 Mar 25 01:10	26°♓28'16	
	10833 Mar 27 21:17	0°♈	
morning set	10833 Apr 04 17:52	9°♈47'07	
	10833 Apr 20 22:20	0°♉	
max. Earth dist.	10833 May 13 08:08	28°♉05'48	1.71377 AU
	10833 May 14 20:31	0°♊	
superior conj	10833 May 15 02:13	0°♊17'54	-1°26'43
minimum elong	10833 May 14 22:35	0°♊06'30	1°27'10
	10833 Jun 07 17:33	0°♋	
evening rise	10833 Jun 24 12:13	21°♋03'20	
	10833 Jul 01 15:31	0°♌	
asc. node	10833 Jul 15 19:05	17°♌41'13	
	10833 Jul 25 16:14	0°♍	
	10833 Aug 18 21:20	0°♎	
	10833 Sep 12 09:00	0°♏	
	10833 Oct 07 07:04	0°♐	
	10833 Nov 01 22:15	0°♑	
desc. node	10833 Nov 04 15:11	3°♑05'56	
	10833 Nov 28 19:43	0°♒	
evening max el	10833 Dec 22 04:11	23°♒55'26	45°52'26
	10833 Dec 28 15:59	0°♓	
greatest brilliancy	10834 Jan 30 09:59	22°♓24'57	-4.8m
retrograde	10834 Feb 09 03:14	24°♓09'23	
evening set	10834 Feb 23 19:32	19°♓58'14	
asc. node	10834 Feb 25 15:56	18°♓56'21	
inferior conj	10834 Mar 02 03:41	16°♓13'04	1°07'54
minimum elong	10834 Mar 02 01:06	16°♓17'05	1°07'16
min. Earth dist.	10834 Mar 02 12:09	15°♓59'54	0.27766 AU
morning rise	10834 Mar 08 05:59	12°♓33'58	
direct	10834 Mar 23 04:24	8°♓09'21	
greatest brilliancy	10834 Apr 02 20:35	10°♓16'19	-4.8m
	10834 May 01 08:59	0°♈	
morning max el	10834 May 12 11:36	10°♈39'19	46°50'32
	10834 May 30 19:05	0°♉	
desc. node	10834 Jun 17 13:54	20°♉04'47	
	10834 Jun 26 02:35	0°♊	
	10834 Jul 21 07:41	0°♋	
	10834 Aug 15 01:41	0°♌	
	10834 Sep 08 15:08	0°♍	
	10834 Oct 03 02:30	0°♎	
asc. node	10834 Oct 08 08:42	6°♎27'20	
	10834 Oct 27 12:19	0°♏	
morning set	10834 Nov 12 22:57	20°♏14'59	
	10834 Nov 20 20:45	0°♐	
	10834 Dec 15 04:27	0°♑	
superior conj	10834 Dec 19 14:06	5°♑25'52	1°17'05
minimum elong	10834 Dec 19 21:49	5°♑49'42	1°17'29
max. Earth dist.	10834 Dec 19 10:00	5°♑13'15	1.73208 AU
	10835 Jan 08 12:09	0°♒	
evening rise	10835 Jan 26 02:09	21°♒41'03	
desc. node	10835 Jan 28 00:38	24°♒04'18	
	10835 Feb 01 20:02	0°♓	
	10835 Feb 26 03:38	0°♈	
	10835 Mar 22 10:45	0°♉	
	10835 Apr 15 18:30	0°♊	
	10835 May 10 05:57	0°♋	
asc. node	10835 May 20 21:21	12°♋55'16	
	10835 Jun 04 02:42	0°♌	
	10835 Jun 29 18:58	0°♍	
	10835 Jul 27 08:41	0°♎	
evening max el	10835 Jul 30 14:42	3°♎16'56	46°31'29
	10835 Sep 01 01:29	0°♏	
greatest brilliancy	10835 Sep 07 15:44	3°♏09'29	-4.8m
desc. node	10835 Sep 09 20:21	3°♏56'15	
retrograde	10835 Sep 18 16:42	5°♏24'47	
evening set	10835 Oct 04 20:00	0°♏22'57	
	10835 Oct 05 11:55	30°℞♎	
min. Earth dist.	10835 Oct 09 06:39	27°♎42'23	0.28459 AU
inferior conj	10835 Oct 10 02:03	27°♎12'12	-6°36'46
minimum elong	10835 Oct 09 15:51	27°♎28'05	6°34'31
morning rise	10835 Oct 14 12:02	24°♎30'52	
direct	10835 Oct 31 07:04	19°♎08'45	
greatest brilliancy	10835 Nov 10 00:00	20°♎50'53	-4.7m
	10835 Nov 26 19:09	0°♏	
morning max el	10835 Dec 19 02:01	19°♏01'34	45°41'51
	10835 Dec 30 02:08	0°♐	
asc. node	10835 Dec 31 20:17	1°♐48'59	
	10836 Jan 26 16:37	0°♑	
	10836 Feb 21 13:21	0°♒	
	10836 Mar 17 14:02	0°♓	
	10836 Apr 11 03:08	0°♈	
desc. node	10836 Apr 21 14:35	12°♈55'45	
	10836 May 05 08:45	0°♉	
	10836 May 29 09:31	0°♊	
morning set	10836 Jun 19 09:20	26°♊18'54	
	10836 Jun 22 07:49	0°♋	
	10836 Jul 16 05:57	0°♌	
superior conj	10836 Jul 29 02:39	16°♌06'14	-0°33'49
minimum elong	10836 Jul 29 10:37	16°♌31'10	0°33'53
max. Earth dist.	10836 Jul 31 15:22	19°♌16'04	1.71760 AU
	10836 Aug 09 05:32	0°♍	
asc. node	10836 Aug 12 07:53	3°♍51'56	
	10836 Sep 02 07:33	0°♎	
evening rise	10836 Sep 06 02:28	4°♎42'16	
	10836 Sep 26 12:45	0°♏	
	10836 Oct 20 22:22	0°♐	
	10836 Nov 14 14:21	0°♑	
desc. node	10836 Dec 02 02:17	21°♑01'37	
	10836 Dec 09 15:04	0°♒	
	10837 Jan 04 03:27	0°♓	

	10837 Jan 30 09:49	0°♈	
	10837 Feb 27 07:16	0°♉	
evening max el	10837 Mar 04 06:17	4°♉58'34	46°26'38
asc. node	10837 Mar 25 02:16	23°♉40'11	
	10837 Apr 03 01:52	0°♊	
greatest brilliancy	10837 Apr 13 11:57	5°♊08'37	-4.9m
retrograde	10837 Apr 23 05:42	6°♊55'35	
evening set	10837 May 11 00:44	0°♊51'04	
	10837 May 12 10:25	30°℞♉	
inferior conj	10837 May 13 21:15	29°♉06'28	9°04'54
minimum elong	10837 May 13 17:16	29°♉12'36	9°04'12
min. Earth dist.	10837 May 13 22:22	29°♉04'46	0.27261 AU
morning rise	10837 May 16 09:49	27°♉33'52	
direct	10837 Jun 03 15:31	21°♉14'22	
greatest brilliancy	10837 Jun 13 09:08	23°♉02'34	-4.9m
	10837 Jun 26 11:49	0°♊	
desc. node	10837 Jul 15 01:11	15°♊13'48	
morning max el	10837 Jul 24 03:09	24°♊01'38	46°51'47
	10837 Jul 29 23:42	0°♋	
	10837 Aug 26 10:45	0°♌	
	10837 Sep 21 09:54	0°♍	
	10837 Oct 16 18:00	0°♎	
asc. node	10837 Nov 04 21:54	22°♎59'20	
	10837 Nov 10 17:17	0°♏	
	10837 Dec 05 10:04	0°♐	
	10837 Dec 29 21:58	0°♑	
morning set	10838 Jan 20 14:13	26°♑41'34	
	10838 Jan 23 06:32	0°♒	
	10838 Feb 16 12:44	0°♓	
desc. node	10838 Feb 24 13:46	9°♓58'13	
max. Earth dist.	10838 Feb 24 22:32	10°♓25'22	1.72486 AU
superior conj	10838 Feb 27 15:07	13°♓45'44	-0°07'26
minimum elong	10838 Feb 27 13:24	13°♓40'23	0°07'08
behind sun begin	10838 Feb 26 15:23	12°♓32'05	
behind sun end	10838 Feb 28 11:25	14°♓48'42	
	10838 Mar 12 16:43	0°♈	
	10838 Apr 05 18:28	0°♉	
evening rise	10838 Apr 07 17:38	2°♉27'15	
	10838 Apr 29 18:35	0°♊	
	10838 May 23 18:50	0°♋	
	10838 Jun 16 21:50	0°♌	
asc. node	10838 Jun 17 08:45	0°♌33'47	
	10838 Jul 11 06:46	0°♍	
	10838 Aug 05 01:57	0°♎	
	10838 Aug 30 15:40	0°♏	
	10838 Sep 26 20:06	0°♐	
desc. node	10838 Oct 07 06:44	10°♐39'04	
evening max el	10838 Oct 09 15:21	12°♐57'41	45°55'38
	10838 Oct 29 00:10	0°♑	
greatest brilliancy	10838 Nov 17 15:36	11°♑26'58	-4.7m
retrograde	10838 Nov 27 15:54	13°♑15'29	
evening set	10838 Dec 15 10:15	7°♑18'31	
inferior conj	10838 Dec 19 02:59	5°♑00'49	-7°50'52
minimum elong	10838 Dec 19 11:03	4°♑48'06	7°49'14
min. Earth dist.	10838 Dec 19 12:13	4°♑46'15	0.28978 AU
morning rise	10838 Dec 23 11:48	2°♑19'09	
	10838 Dec 27 18:03	30°℞♐	
direct	10839 Jan 09 14:55	26°♐44'23	
greatest brilliancy	10839 Jan 20 08:54	28°♐51'25	-4.8m
	10839 Jan 23 02:53	0°♑	
asc. node	10839 Jan 28 07:18	2°♑41'37	
morning max el	10839 Feb 28 02:43	27°♑58'09	46°05'31
	10839 Mar 02 03:48	0°♒	
	10839 Mar 30 03:07	0°♓	
	10839 Apr 25 00:12	0°♈	
	10839 May 19 23:07	0°♉	
desc. node	10839 May 20 03:34	0°♉13'33	
	10839 Jun 13 10:13	0°♊	
	10839 Jul 07 15:15	0°♋	
	10839 Jul 31 18:04	0°♌	
	10839 Aug 24 20:59	0°♍	
morning set	10839 Sep 01 14:54	9°♍37'30	
asc. node	10839 Sep 09 21:12	19°♍52'56	
	10839 Sep 18 00:53	0°♎	
superior conj	10839 Oct 09 16:54	26°♎51'19	1°04'12
minimum elong	10839 Oct 09 07:05	26°♎20'56	1°04'05
max. Earth dist.	10839 Oct 11 16:00	29°♎17'05	1.72830 AU
	10839 Oct 12 05:52	0°♏	
	10839 Nov 05 12:16	0°♐	
evening rise	10839 Nov 15 12:01	12°♐18'59	
	10839 Nov 29 20:59	0°♑	
	10839 Dec 24 08:55	0°♒	
desc. node	10839 Dec 30 14:04	7°♒34'56	
	10840 Jan 18 00:20	0°♓	
	10840 Feb 11 19:12	0°♈	
	10840 Mar 07 18:48	0°♉	
	10840 Apr 02 04:26	0°♊	
asc. node	10840 Apr 21 12:30	22°♊07'54	
	10840 Apr 28 14:50	0°♋	
evening max el	10840 May 16 08:55	18°♋43'23	46°52'44
	10840 May 28 03:16	0°♌	
greatest brilliancy	10840 Jun 25 13:36	19°♌26'38	-4.9m
retrograde	10840 Jul 05 17:15	21°♌22'39	
evening set	10840 Jul 21 03:00	16°♌44'54	
inferior conj	10840 Jul 26 12:26	13°♌32'21	3°59'49
minimum elong	10840 Jul 26 20:57	13°♌19'16	3°56'51
min. Earth dist.	10840 Jul 26 12:57	13°♌31'33	0.27141 AU
morning rise	10840 Aug 01 15:09	9°♌56'41	
desc. node	10840 Aug 11 11:57	6°♌13'18	
direct	10840 Aug 16 06:35	5°♌45'54	
greatest brilliancy	10840 Aug 26 04:12	7°♌34'19	-4.8m
	10840 Sep 27 14:26	0°♍	
morning max el	10840 Oct 04 17:05	6°♍42'48	46°08'19
	10840 Oct 27 07:39	0°♎	
	10840 Nov 23 05:37	0°♏	
asc. node	10840 Dec 02 10:24	10°♏36'16	
	10840 Dec 18 23:34	0°♐	
	10841 Jan 13 01:36	0°♑	
	10841 Feb 06 17:43	0°♒	
	10841 Mar 03 03:22	0°♓	
desc. node	10841 Mar 24 03:10	26°♓00'18	
	10841 Mar 27 08:17	0°♈	
morning set	10841 Apr 02 06:06	7°♈21'24	
	10841 Apr 20 09:19	0°♉	
max. Earth dist.	10841 May 10 13:44	25°♉18'13	1.71401 AU
superior conj	10841 May 12 13:45	27°♉48'56	-1°26'02
minimum elong	10841 May 12 09:06	27°♉34'20	1°26'28
	10841 May 14 07:30	0°♊	
	10841 Jun 07 04:36	0°♋	
evening rise	10841 Jun 21 23:09	18°♋32'28	
	10841 Jul 01 02:37	0°♌	
asc. node	10841 Jul 14 20:57	17°♌12'19	
	10841 Jul 25 03:26	0°♍	
	10841 Aug 18 08:43	0°♎	
	10841 Sep 11 20:46	0°♏	
	10841 Oct 06 19:33	0°♐	
	10841 Nov 01 12:07	0°♑	
desc. node	10841 Nov 03 17:06	2°♑31'19	
	10841 Nov 28 12:38	0°♒	
evening max el	10841 Dec 19 18:15	21°♒39'08	45°51'55
	10841 Dec 28 18:51	0°♓	

greatest brilliancy	10842 Jan 28 00:04	20°♓07'41	-4.8m
retrograde	10842 Feb 06 17:44	21°♓52'33	
evening set	10842 Feb 21 10:20	17°♓40'09	
asc. node	10842 Feb 24 17:58	15°♓46'19	
inferior conj	10842 Feb 27 18:15	13°♓55'26	0°45'34
minimum elong	10842 Feb 27 16:30	13°♓58'09	0°45'14
min. Earth dist.	10842 Feb 28 03:23	13°♓41'15	0.27804 AU
morning rise	10842 Mar 05 22:00	10°♓14'36	
direct	10842 Mar 20 19:14	5°♓50'57	
greatest brilliancy	10842 Mar 31 12:43	7°♓59'23	-4.8m
	10842 May 01 12:08	0°♈	
morning max el	10842 May 10 02:41	8°♈20'42	46°49'26
	10842 May 30 12:29	0°♉	
desc. node	10842 Jun 16 15:47	19°♉26'18	
	10842 Jun 25 17:01	0°♊	
	10842 Jul 20 20:45	0°♋	
	10842 Aug 14 13:55	0°♌	
	10842 Sep 08 02:48	0°♍	
	10842 Oct 02 13:45	0°♎	
asc. node	10842 Oct 07 10:38	5°♎58'54	
	10842 Oct 26 23:17	0°♏	
morning set	10842 Nov 10 15:43	18°♏05'12	
	10842 Nov 20 07:35	0°♐	
	10842 Dec 14 15:16	0°♑	
superior conj	10842 Dec 17 07:11	3°♑17'12	1°18'29
minimum elong	10842 Dec 17 14:26	3°♑39'34	1°18'56
max. Earth dist.	10842 Dec 17 06:15	3°♑14'19	1.73216 AU
	10843 Jan 07 23:00	0°♒	
evening rise	10843 Jan 23 18:07	19°♒28'39	
desc. node	10843 Jan 27 02:37	23°♒36'44	
	10843 Feb 01 07:00	0°♓	
	10843 Feb 25 14:48	0°♈	
	10843 Mar 21 22:14	0°♉	
	10843 Apr 15 06:24	0°♊	
	10843 May 09 18:30	0°♋	
asc. node	10843 May 19 23:12	12°♋21'48	
	10843 Jun 03 16:21	0°♌	
	10843 Jun 29 10:44	0°♍	
	10843 Jul 27 06:06	0°♎	
evening max el	10843 Jul 28 06:22	1°♎00'49	46°32'51
	10843 Sep 03 03:41	0°♏	
greatest brilliancy	10843 Sep 05 06:23	0°♏53'15	-4.8m
desc. node	10843 Sep 08 22:28	2°♏06'43	
retrograde	10843 Sep 16 08:58	3°♏09'58	
	10843 Sep 28 23:03	30°℞♎	
evening set	10843 Oct 02 08:18	28°♎12'36	
min. Earth dist.	10843 Oct 06 21:09	25°♎29'02	0.28406 AU
inferior conj	10843 Oct 07 17:17	24°♎57'47	-6°22'47
minimum elong	10843 Oct 07 06:59	25°♎13'46	6°20'26
morning rise	10843 Oct 12 06:09	22°♎12'43	
direct	10843 Oct 28 22:15	16°♎55'11	
greatest brilliancy	10843 Nov 07 14:00	18°♎36'49	-4.7m
	10843 Nov 27 10:19	0°♏	
morning max el	10843 Dec 16 17:45	16°♏50'01	45°41'51
	10843 Dec 29 20:52	0°♐	
asc. node	10843 Dec 30 22:18	1°♐06'18	
	10844 Jan 26 07:10	0°♑	
	10844 Feb 21 02:12	0°♒	
	10844 Mar 17 02:02	0°♓	
	10844 Apr 10 14:41	0°♈	
desc. node	10844 Apr 20 16:28	12°♈26'14	
	10844 May 04 20:02	0°♉	
	10844 May 28 20:38	0°♊	
morning set	10844 Jun 16 21:16	23°♊51'13	
	10844 Jun 21 18:50	0°♋	
	10844 Jul 15 16:53	0°♌	
superior conj	10844 Jul 26 15:26	13°♌41'50	-0°37'16
minimum elong	10844 Jul 27 00:05	14°♌08'55	0°37'20
max. Earth dist.	10844 Jul 29 05:08	16°♌54'52	1.71729 AU
	10844 Aug 08 16:27	0°♍	
asc. node	10844 Aug 11 09:54	3°♍24'10	
	10844 Sep 01 18:30	0°♎	
evening rise	10844 Sep 03 17:32	2°♎26'04	
	10844 Sep 25 23:46	0°♏	
	10844 Oct 20 09:34	0°♐	
	10844 Nov 14 01:55	0°♑	
desc. node	10844 Dec 01 04:12	20°♑31'29	
	10844 Dec 09 03:19	0°♒	
	10845 Jan 03 16:55	0°♓	
	10845 Jan 30 01:37	0°♈	
	10845 Feb 27 04:54	0°♉	
evening max el	10845 Mar 01 21:02	2°♉39'37	46°25'14
asc. node	10845 Mar 24 04:17	22°♉27'00	
	10845 Apr 04 19:28	0°♊	
greatest brilliancy	10845 Apr 11 00:39	2°♊44'07	-4.9m
retrograde	10845 Apr 20 18:53	4°♊31'04	
	10845 May 05 21:40	30°℞♉	
evening set	10845 May 08 10:27	28°♉32'03	
inferior conj	10845 May 11 10:26	26°♉42'02	9°00'04
minimum elong	10845 May 11 05:33	26°♉49'34	8°59'17
min. Earth dist.	10845 May 11 10:54	26°♉41'19	0.27266 AU
morning rise	10845 May 14 00:39	25°♉06'45	
direct	10845 Jun 01 05:11	18°♉50'01	
greatest brilliancy	10845 Jun 10 21:56	20°♉37'20	-4.9m
	10845 Jun 27 10:23	0°♊	
desc. node	10845 Jul 14 03:14	14°♊15'44	
morning max el	10845 Jul 21 16:24	21°♊37'35	46°52'38
	10845 Jul 29 20:05	0°♋	
	10845 Aug 26 02:13	0°♌	
	10845 Sep 20 23:19	0°♍	
	10845 Oct 16 06:17	0°♎	
asc. node	10845 Nov 03 23:42	22°♎29'23	
	10845 Nov 10 04:52	0°♏	
	10845 Dec 04 21:12	0°♐	
	10845 Dec 29 08:51	0°♑	
morning set	10846 Jan 18 06:45	24°♑31'20	
	10846 Jan 22 17:18	0°♒	
	10846 Feb 15 23:30	0°♓	
max. Earth dist.	10846 Feb 22 12:38	8°♓06'53	1.72526 AU
desc. node	10846 Feb 23 15:42	9°♓30'50	
superior conj	10846 Feb 25 05:31	11°♓28'04	-0°03'51
minimum elong	10846 Feb 25 04:39	11°♓25'22	0°03'35
behind sun begin	10846 Feb 24 04:53	10°♓11'40	
behind sun end	10846 Feb 26 04:24	12°♓39'04	
	10846 Mar 12 03:34	0°♈	
evening rise	10846 Apr 05 06:45	0°♉04'10	
	10846 Apr 05 05:25	0°♉	
	10846 Apr 29 05:40	0°♊	
	10846 May 23 06:05	0°♋	
asc. node	10846 Jun 16 10:43	0°♌04'12	
	10846 Jun 16 09:21	0°♌	
	10846 Jul 10 18:44	0°♍	
	10846 Aug 04 14:44	0°♎	
	10846 Aug 30 06:03	0°♏	
	10846 Sep 26 14:29	0°♐	
desc. node	10846 Oct 06 08:37	9°♐51'09	
evening max el	10846 Oct 07 06:05	10°♐43'30	45°56'22
	10846 Oct 29 14:02	0°♑	
greatest brilliancy	10846 Nov 15 07:28	9°♑17'05	-4.7m
retrograde	10846 Nov 25 07:14	11°♑05'29	
evening set	10846 Dec 13 04:38	5°♑05'03	
inferior conj	10846 Dec 16 19:09	2°♑50'36	-7°59'08

minimum elong	10846 Dec 17 02:43	2°♑38'42	7°57'40
min. Earth dist.	10846 Dec 17 03:46	2°♑37'03	0.28998 AU
morning rise	10846 Dec 21 00:43	0°♑13'32	
	10846 Dec 21 09:52	30°℞♐	
direct	10847 Jan 07 06:52	24°♐34'13	
greatest brilliancy	10847 Jan 18 00:32	26°♐40'21	-4.8m
	10847 Jan 25 01:58	0°♑	
asc. node	10847 Jan 27 09:20	1°♑21'07	
morning max el	10847 Feb 25 16:49	25°♑41'01	46°04'02
	10847 Mar 02 00:25	0°♒	
	10847 Mar 29 18:21	0°♓	
	10847 Apr 24 13:27	0°♈	
desc. node	10847 May 19 05:22	29°♈41'44	
	10847 May 19 11:22	0°♉	
	10847 Jun 12 21:54	0°♊	
	10847 Jul 07 02:32	0°♋	
	10847 Jul 31 05:04	0°♌	
	10847 Aug 24 07:47	0°♍	
morning set	10847 Aug 30 05:51	7°♍21'28	
asc. node	10847 Sep 08 23:04	19°♍25'36	
	10847 Sep 17 11:31	0°♎	
superior conj	10847 Oct 07 09:27	24°♎41'14	1°01'54
minimum elong	10847 Oct 06 23:34	24°♎10'40	1°01'45
max. Earth dist.	10847 Oct 09 08:25	27°♎06'37	1.72801 AU
	10847 Oct 11 16:26	0°♏	
	10847 Nov 04 22:51	0°♐	
evening rise	10847 Nov 13 05:06	10°♐11'04	
	10847 Nov 29 07:42	0°♑	
	10847 Dec 23 19:52	0°♒	
desc. node	10847 Dec 29 16:03	7°♒07'24	
	10848 Jan 17 11:40	0°♓	
	10848 Feb 11 07:07	0°♈	
	10848 Mar 07 07:38	0°♉	
	10848 Apr 01 18:54	0°♊	
asc. node	10848 Apr 20 14:23	21°♊26'35	
	10848 Apr 28 08:45	0°♋	
evening max el	10848 May 13 21:08	16°♋16'44	46°52'31
	10848 May 28 09:11	0°♌	
greatest brilliancy	10848 Jun 23 04:46	17°♌04'49	-4.9m
retrograde	10848 Jul 03 06:25	18°♌59'35	
evening set	10848 Jul 18 19:04	14°♌17'59	
inferior conj	10848 Jul 24 01:39	11°♌09'46	4°21'09
minimum elong	10848 Jul 24 10:45	10°♌55'48	4°18'04
min. Earth dist.	10848 Jul 24 03:26	11°♌07'03	0.27126 AU
morning rise	10848 Jul 30 02:36	7°♌36'28	
desc. node	10848 Aug 10 13:57	3°♌35'32	
direct	10848 Aug 13 18:58	3°♌23'10	
greatest brilliancy	10848 Aug 23 18:08	5°♌12'53	-4.8m
	10848 Sep 27 16:12	0°♍	
morning max el	10848 Oct 02 06:43	4°♍23'48	46°10'02
	10848 Oct 27 00:14	0°♎	
	10848 Nov 22 19:10	0°♏	
asc. node	10848 Dec 01 12:25	10°♏04'24	
	10848 Dec 18 11:44	0°♐	
	10849 Jan 12 13:02	0°♑	
	10849 Feb 06 04:46	0°♒	
	10849 Mar 02 14:13	0°♓	
desc. node	10849 Mar 23 05:00	25°♓32'40	
	10849 Mar 26 19:01	0°♈	
morning set	10849 Mar 30 18:27	4°♈57'00	
	10849 Apr 19 19:59	0°♉	
max. Earth dist.	10849 May 07 23:12	22°♉43'41	1.71427 AU
superior conj	10849 May 10 01:16	25°♉20'50	-1°25'11
minimum elong	10849 May 09 19:40	25°♉03'15	1°25'35
	10849 May 13 18:12	0°♊	
	10849 Jun 06 15:21	0°♋	
evening rise	10849 Jun 19 10:10	16°♋02'46	
	10849 Jun 30 13:27	0°♌	
asc. node	10849 Jul 13 22:58	16°♌44'42	
	10849 Jul 24 14:22	0°♍	
	10849 Aug 17 19:50	0°♎	
	10849 Sep 11 08:15	0°♏	
	10849 Oct 06 07:45	0°♐	
	10849 Nov 01 01:43	0°♑	
desc. node	10849 Nov 02 19:03	1°♑57'42	
	10849 Nov 28 05:28	0°♒	
evening max el	10849 Dec 17 09:10	19°♒26'10	45°51'19
	10849 Dec 28 22:57	0°♓	
greatest brilliancy	10850 Jan 25 13:54	17°♓51'20	-4.8m
retrograde	10850 Feb 04 08:36	19°♓36'43	
evening set	10850 Feb 19 01:25	15°♓23'03	
asc. node	10850 Feb 23 19:57	12°♓35'53	
inferior conj	10850 Feb 25 08:50	11°♓38'50	0°23'15
minimum elong	10850 Feb 25 07:57	11°♓40'14	0°23'12
min. Earth dist.	10850 Feb 25 18:24	11°♓24'00	0.27844 AU
morning rise	10850 Mar 03 13:52	7°♓56'31	
direct	10850 Mar 18 10:34	3°♓33'46	
greatest brilliancy	10850 Mar 29 04:23	5°♓42'59	-4.8m
	10850 May 01 13:23	0°♈	
morning max el	10850 May 07 18:22	6°♈04'46	46°48'17
	10850 May 30 05:08	0°♉	
desc. node	10850 Jun 15 17:53	18°♉49'57	
	10850 Jun 25 06:54	0°♊	
	10850 Jul 20 09:19	0°♋	
	10850 Aug 14 01:42	0°♌	
	10850 Sep 07 14:03	0°♍	
	10850 Oct 02 00:37	0°♎	
asc. node	10850 Oct 06 12:27	5°♎31'16	
	10850 Oct 26 09:54	0°♏	
morning set	10850 Nov 08 08:41	15°♏57'12	
	10850 Nov 19 18:03	0°♐	
	10850 Dec 14 01:40	0°♑	
superior conj	10850 Dec 15 00:28	1°♑10'20	1°19'47
minimum elong	10850 Dec 15 07:13	1°♑31'10	1°20'15
max. Earth dist.	10850 Dec 15 03:49	1°♑20'40	1.73220 AU
	10851 Jan 07 09:28	0°♒	
evening rise	10851 Jan 21 10:12	17°♒17'47	
desc. node	10851 Jan 26 04:36	23°♒10'16	
	10851 Jan 31 17:36	0°♓	
	10851 Feb 25 01:39	0°♈	
	10851 Mar 21 09:24	0°♉	
	10851 Apr 14 18:01	0°♊	
	10851 May 09 06:46	0°♋	
asc. node	10851 May 19 01:13	11°♋49'43	
	10851 Jun 03 05:43	0°♌	
	10851 Jun 29 02:22	0°♍	
evening max el	10851 Jul 25 22:19	28°♍46'25	46°34'06
	10851 Jul 27 03:54	0°♎	
greatest brilliancy	10851 Sep 02 21:20	28°♎38'06	-4.8m
	10851 Sep 07 02:01	0°♏	
desc. node	10851 Sep 08 00:24	0°♏13'32	
retrograde	10851 Sep 14 01:00	0°♏55'21	
	10851 Sep 20 18:32	30°℞♎	
evening set	10851 Sep 29 20:33	26°♎02'38	
min. Earth dist.	10851 Oct 04 11:35	23°♎15'55	0.28350 AU
inferior conj	10851 Oct 05 08:17	22°♎43'46	-6°08'07
minimum elong	10851 Oct 04 22:00	22°♎59'45	6°05'41
morning rise	10851 Oct 10 00:01	19°♎54'50	
direct	10851 Oct 26 13:26	14°♎42'10	
greatest brilliancy	10851 Nov 05 03:25	16°♎22'40	-4.7m
	10851 Nov 27 21:08	0°♏	

morning max el	10851 Dec 14 08:57	14°♏38'16	45°42'00
	10851 Dec 29 14:41	0°♐	
asc. node	10851 Dec 30 00:18	0°♐25'17	
	10852 Jan 25 21:06	0°♑	
	10852 Feb 20 14:33	0°♒	
	10852 Mar 16 13:36	0°♓	
	10852 Apr 10 01:51	0°♈	
desc. node	10852 Apr 19 18:21	11°♈57'49	
	10852 May 04 06:59	0°♉	
	10852 May 28 07:27	0°♊	
morning set	10852 Jun 14 08:48	21°♊23'14	
	10852 Jun 21 05:32	0°♋	
	10852 Jul 15 03:30	0°♌	
superior conj	10852 Jul 24 03:53	11°♌17'27	-0°40'40
minimum elong	10852 Jul 24 13:10	11°♌46'31	0°40'45
max. Earth dist.	10852 Jul 26 19:22	14°♌36'07	1.71693 AU
	10852 Aug 08 03:01	0°♍	
asc. node	10852 Aug 10 11:42	2°♍56'51	
evening rise	10852 Sep 01 08:20	0°♎10'05	
	10852 Sep 01 05:05	0°♎	
	10852 Sep 25 10:28	0°♏	
	10852 Oct 19 20:27	0°♐	
	10852 Nov 13 13:11	0°♑	
desc. node	10852 Nov 30 06:15	20°♑02'40	
	10852 Dec 08 15:16	0°♒	
	10853 Jan 03 06:07	0°♓	
	10853 Jan 29 17:15	0°♈	
	10853 Feb 27 02:56	0°♉	
evening max el	10853 Feb 27 10:48	0°♉19'25	46°23'42
asc. node	10853 Mar 23 06:10	21°♉12'15	
	10853 Apr 07 14:53	0°♊	
greatest brilliancy	10853 Apr 08 13:44	0°♊20'48	-4.9m
retrograde	10853 Apr 18 07:24	2°♊07'06	
	10853 Apr 28 12:43	30°℞♉	
evening set	10853 May 05 19:42	26°♉14'07	
inferior conj	10853 May 08 23:31	24°♉18'11	8°54'17
minimum elong	10853 May 08 17:46	24°♉27'06	8°53'21
min. Earth dist.	10853 May 08 23:45	24°♉17'50	0.27275 AU
morning rise	10853 May 11 15:49	22°♉39'32	
direct	10853 May 29 18:14	16°♉26'00	
greatest brilliancy	10853 Jun 08 11:24	18°♉13'11	-4.9m
	10853 Jun 28 02:54	0°♊	
desc. node	10853 Jul 13 05:13	13°♊19'12	
morning max el	10853 Jul 19 04:50	19°♊11'51	46°53'30
	10853 Jul 29 15:38	0°♋	
	10853 Aug 25 17:14	0°♌	
	10853 Sep 20 12:21	0°♍	
	10853 Oct 15 18:14	0°♎	
asc. node	10853 Nov 03 01:40	22°♎00'53	
	10853 Nov 09 16:09	0°♏	
	10853 Dec 04 08:04	0°♐	
	10853 Dec 28 19:28	0°♑	
morning set	10854 Jan 15 23:23	22°♑22'08	
	10854 Jan 22 03:49	0°♒	
	10854 Feb 15 10:00	0°♓	
max. Earth dist.	10854 Feb 20 03:40	5°♓52'11	1.72564 AU
superior conj	10854 Feb 22 20:08	9°♓12'03	-0°00'16
minimum elong	10854 Feb 22 20:09	9°♓12'04	0°00'00
behind sun begin	10854 Feb 22 12:22	8°♓47'55	
behind sun end	10854 Feb 23 03:56	9°♓36'12	
desc. node	10854 Feb 22 17:33	9°♓03'58	
	10854 Mar 11 14:07	0°♈	
evening rise	10854 Apr 02 20:07	27°♈42'52	
	10854 Apr 04 16:05	0°♉	
	10854 Apr 28 16:29	0°♊	
	10854 May 22 17:08	0°♋	
asc. node	10854 Jun 15 12:42	29°♋35'06	
	10854 Jun 15 20:45	0°♌	
	10854 Jul 10 06:37	0°♍	
	10854 Aug 04 03:29	0°♎	
	10854 Aug 29 20:29	0°♏	
	10854 Sep 26 09:14	0°♐	
evening max el	10854 Oct 04 19:59	8°♐27'36	45°57'16
desc. node	10854 Oct 05 10:36	9°♐03'03	
	10854 Oct 30 08:32	0°♑	
greatest brilliancy	10854 Nov 12 22:56	7°♑06'58	-4.7m
retrograde	10854 Nov 22 22:38	8°♑55'46	
evening set	10854 Dec 10 22:44	2°♑51'45	
inferior conj	10854 Dec 14 11:12	0°♑40'30	-8°06'50
minimum elong	10854 Dec 14 18:11	0°♑29'29	8°05'29
min. Earth dist.	10854 Dec 14 19:13	0°♑27'53	0.29018 AU
	10854 Dec 15 12:55	30°℞♐	
morning rise	10854 Dec 18 13:33	28°♐08'09	
direct	10855 Jan 04 22:23	22°♐23'56	
greatest brilliancy	10855 Jan 15 16:26	24°♐29'51	-4.8m
asc. node	10855 Jan 26 11:17	0°♑03'09	
	10855 Jan 26 09:18	0°♑	
morning max el	10855 Feb 23 07:25	23°♑25'33	46°02'47
	10855 Mar 01 20:13	0°♒	
	10855 Mar 29 09:12	0°♓	
	10855 Apr 24 02:24	0°♈	
desc. node	10855 May 18 07:27	29°♈11'27	
	10855 May 18 23:23	0°♉	
	10855 Jun 12 09:22	0°♊	
	10855 Jul 06 13:41	0°♋	
	10855 Jul 30 16:00	0°♌	
	10855 Aug 23 18:33	0°♍	
morning set	10855 Aug 27 20:19	5°♍03'57	
asc. node	10855 Sep 08 00:56	18°♍58'18	
	10855 Sep 16 22:09	0°♎	
superior conj	10855 Oct 05 01:32	22°♎29'46	0°59'29
minimum elong	10855 Oct 04 15:38	21°♎59'07	0°59'17
max. Earth dist.	10855 Oct 06 23:13	24°♎51'15	1.72769 AU
	10855 Oct 11 02:58	0°♏	
	10855 Nov 04 09:24	0°♐	
evening rise	10855 Nov 10 21:56	8°♐02'29	
	10855 Nov 28 18:23	0°♑	
	10855 Dec 23 06:49	0°♒	
desc. node	10855 Dec 28 17:59	6°♒39'42	
	10856 Jan 16 23:02	0°♓	
	10856 Feb 10 19:05	0°♈	
	10856 Mar 06 20:31	0°♉	
	10856 Apr 01 09:26	0°♊	
asc. node	10856 Apr 19 16:29	20°♊45'47	
	10856 Apr 28 02:59	0°♋	
evening max el	10856 May 11 09:49	13°♋51'52	46°52'22
	10856 May 28 17:16	0°♌	
greatest brilliancy	10856 Jun 20 19:08	14°♌42'24	-4.9m
retrograde	10856 Jun 30 19:59	16°♌36'46	
evening set	10856 Jul 16 11:12	11°♌50'48	
inferior conj	10856 Jul 21 14:51	8°♌47'03	4°42'05
minimum elong	10856 Jul 22 00:28	8°♌32'19	4°38'54
min. Earth dist.	10856 Jul 21 17:30	8°♌42'59	0.27119 AU
morning rise	10856 Jul 27 13:50	5°♌16'39	
desc. node	10856 Aug 09 15:54	1°♌03'29	
direct	10856 Aug 11 07:44	1°♌00'10	
greatest brilliancy	10856 Aug 21 07:41	2°♌50'53	-4.8m
	10856 Sep 27 16:47	0°♍	
morning max el	10856 Sep 29 21:23	2°♍06'51	46°11'38
	10856 Oct 26 16:39	0°♎	
	10856 Nov 22 08:44	0°♏	

asc. node	10856 Nov 30 14:26	9°♏32'20	
	10856 Dec 17 23:56	0°♐	
	10857 Jan 12 00:31	0°♑	
	10857 Feb 05 15:53	0°♒	
	10857 Mar 02 01:08	0°♓	
desc. node	10857 Mar 22 06:53	25°♓04'53	
	10857 Mar 26 05:50	0°♈	
morning set	10857 Mar 28 06:55	2°♈32'42	
	10857 Apr 19 06:46	0°♉	
max. Earth dist.	10857 May 05 10:28	20°♉14'35	1.71447 AU
superior conj	10857 May 07 12:56	22°♉52'58	-1°24'11
minimum elong	10857 May 07 06:25	22°♉32'31	1°24'32
	10857 May 13 04:59	0°♊	
	10857 Jun 06 02:09	0°♋	
evening rise	10857 Jun 16 21:30	13°♋33'53	
	10857 Jun 30 00:19	0°♌	
asc. node	10857 Jul 13 00:48	16°♌16'22	
	10857 Jul 24 01:21	0°♍	
	10857 Aug 17 07:03	0°♎	
	10857 Sep 10 19:53	0°♏	
	10857 Oct 05 20:10	0°♐	
	10857 Oct 31 15:40	0°♑	
desc. node	10857 Nov 01 21:06	1°♑23'34	
	10857 Nov 27 22:56	0°♒	
evening max el	10857 Dec 15 00:50	17°♒14'25	45°50'50
	10857 Dec 29 05:23	0°♓	
greatest brilliancy	10858 Jan 23 03:47	15°♓34'36	-4.8m
retrograde	10858 Feb 01 23:14	17°♓20'06	
evening set	10858 Feb 16 16:42	13°♓05'13	
inferior conj	10858 Feb 22 23:23	9°♓21'33	0°00'56
minimum elong	10858 Feb 22 23:20	9°♓21'37	0°01'11
transit middle	10858 Feb 22 23:20	9°♓21'37	0°01'11
transit begin	10858 Feb 22 19:17	9°♓27'54	
transit end	10858 Feb 23 03:23	9°♓15'20	
asc. node	10858 Feb 22 21:53	9°♓23'52	
min. Earth dist.	10858 Feb 23 09:16	9°♓06'12	0.27882 AU
morning rise	10858 Mar 01 05:29	5°♓37'51	
direct	10858 Mar 16 02:09	1°♓16'02	
greatest brilliancy	10858 Mar 26 19:34	3°♓25'13	-4.8m
	10858 May 01 13:42	0°♈	
morning max el	10858 May 05 09:54	3°♈47'54	46°47'08
	10858 May 29 21:42	0°♉	
desc. node	10858 Jun 14 19:45	18°♉12'37	
	10858 Jun 24 20:51	0°♊	
	10858 Jul 19 21:57	0°♋	
	10858 Aug 13 13:34	0°♌	
	10858 Sep 07 01:23	0°♍	
	10858 Oct 01 11:37	0°♎	
asc. node	10858 Oct 05 14:24	5°♎03'36	
	10858 Oct 25 20:41	0°♏	
morning set	10858 Nov 06 01:37	13°♏48'25	
	10858 Nov 19 04:44	0°♐	
superior conj	10858 Dec 12 17:38	29°♐02'21	1°20'58
minimum elong	10858 Dec 12 23:49	29°♐21'27	1°21'27
max. Earth dist.	10858 Dec 13 00:16	29°♐22'50	1.73222 AU
	10858 Dec 13 12:19	0°♑	
	10859 Jan 06 20:10	0°♒	
evening rise	10859 Jan 19 02:02	15°♒05'26	
desc. node	10859 Jan 25 06:21	22°♒42'21	
	10859 Jan 31 04:27	0°♓	
	10859 Feb 24 12:46	0°♈	
	10859 Mar 20 20:53	0°♉	
	10859 Apr 14 05:58	0°♊	
	10859 May 08 19:25	0°♋	
asc. node	10859 May 18 03:12	11°♋16'27	
	10859 Jun 02 19:31	0°♌	
	10859 Jun 28 18:31	0°♍	
evening max el	10859 Jul 23 14:17	26°♍31'24	46°35'26
	10859 Jul 27 02:49	0°♎	
greatest brilliancy	10859 Aug 31 13:06	26°♎23'44	-4.8m
desc. node	10859 Sep 07 02:20	28°♎16'05	
retrograde	10859 Sep 11 16:48	28°♎40'37	
evening set	10859 Sep 27 09:14	23°♎52'35	
min. Earth dist.	10859 Oct 02 02:35	21°♎02'25	0.28294 AU
inferior conj	10859 Oct 02 23:31	20°♎29'52	-5°52'55
minimum elong	10859 Oct 02 13:19	20°♎45'44	5°50'26
morning rise	10859 Oct 07 18:02	17°♎36'55	
direct	10859 Oct 24 04:44	12°♎29'20	
greatest brilliancy	10859 Nov 02 17:18	14°♎08'39	-4.7m
	10859 Nov 28 05:15	0°♏	
morning max el	10859 Dec 11 23:31	12°♏24'14	45°42'01
asc. node	10859 Dec 29 02:09	29°♏43'33	
	10859 Dec 29 08:23	0°♐	
	10860 Jan 25 11:14	0°♑	
	10860 Feb 20 03:10	0°♒	
	10860 Mar 16 01:28	0°♓	
	10860 Apr 09 13:20	0°♈	
desc. node	10860 Apr 18 20:19	11°♈28'44	
	10860 May 03 18:15	0°♉	
	10860 May 27 18:34	0°♊	
morning set	10860 Jun 11 20:11	18°♊53'45	
	10860 Jun 20 16:33	0°♋	
	10860 Jul 14 14:27	0°♌	
superior conj	10860 Jul 21 16:26	8°♌52'17	-0°44'01
minimum elong	10860 Jul 22 02:17	9°♌23'06	0°44'04
max. Earth dist.	10860 Jul 24 07:20	12°♌09'10	1.71652 AU
	10860 Aug 07 13:55	0°♍	
asc. node	10860 Aug 09 13:36	2°♍28'47	
evening rise	10860 Aug 29 23:14	27°♍53'24	
	10860 Aug 31 15:59	0°♎	
	10860 Sep 24 21:25	0°♏	
	10860 Oct 19 07:36	0°♐	
	10860 Nov 13 00:45	0°♑	
desc. node	10860 Nov 29 08:07	19°♑32'23	
	10860 Dec 08 03:36	0°♒	
	10861 Jan 02 19:48	0°♓	
	10861 Jan 29 09:36	0°♈	
evening max el	10861 Feb 24 23:52	27°♈56'22	46°22'13
	10861 Feb 27 02:25	0°♉	
asc. node	10861 Mar 22 08:16	19°♉54'28	
greatest brilliancy	10861 Apr 06 03:12	27°♉56'50	-4.9m
retrograde	10861 Apr 15 19:48	29°♉42'25	
evening set	10861 May 03 04:45	23°♉55'39	
inferior conj	10861 May 06 12:42	21°♉53'33	8°47'27
minimum elong	10861 May 06 06:07	22°♉03'44	8°46'22
min. Earth dist.	10861 May 06 13:01	21°♉53'03	0.27286 AU
morning rise	10861 May 09 07:28	20°♉11'02	
direct	10861 May 27 06:56	14°♉00'53	
greatest brilliancy	10861 Jun 06 01:33	15°♉48'51	-4.9m
	10861 Jun 28 15:42	0°♊	
desc. node	10861 Jul 12 07:08	12°♊22'37	
morning max el	10861 Jul 16 17:17	16°♊44'53	46°54'22
	10861 Jul 29 11:03	0°♋	
	10861 Aug 25 08:26	0°♌	
	10861 Sep 20 01:39	0°♍	
	10861 Oct 15 06:26	0°♎	
asc. node	10861 Nov 02 03:38	21°♎31'36	
	10861 Nov 09 03:41	0°♏	
	10861 Dec 03 19:11	0°♐	
	10861 Dec 28 06:21	0°♑	
morning set	10862 Jan 13 16:13	20°♑12'34	

	10862 Jan 21 14:38	0°♒	
	10862 Feb 14 20:51	0°♓	
max. Earth dist.	10862 Feb 17 20:00	3°♓40'27	1.72608 AU
superior conj	10862 Feb 20 10:50	6°♓55'09	0°03'20
minimum elong	10862 Feb 20 11:41	6°♓57'48	0°03'34
behind sun begin	10862 Feb 19 12:02	5°♓44'28	
behind sun end	10862 Feb 21 11:21	8°♓11'07	
desc. node	10862 Feb 21 19:29	8°♓36'20	
	10862 Mar 11 01:03	0°♈	
evening rise	10862 Mar 31 09:27	25°♈20'25	
	10862 Apr 04 03:07	0°♉	
	10862 Apr 28 03:41	0°♊	
	10862 May 22 04:34	0°♋	
asc. node	10862 Jun 14 14:33	29°♋04'27	
	10862 Jun 15 08:31	0°♌	
	10862 Jul 09 18:56	0°♍	
	10862 Aug 03 16:40	0°♎	
	10862 Aug 29 11:28	0°♏	
	10862 Sep 26 04:51	0°♐	
evening max el	10862 Oct 02 10:17	6°♐11'53	45°58'25
desc. node	10862 Oct 04 12:42	8°♐13'41	
	10862 Oct 31 10:08	0°♑	
greatest brilliancy	10862 Nov 10 14:03	4°♑56'12	-4.7m
retrograde	10862 Nov 20 14:43	6°♑46'15	
evening set	10862 Dec 08 16:53	0°♑38'42	
	10862 Dec 09 18:13	30°℞♐	
inferior conj	10862 Dec 12 03:30	28°♐30'29	-8°13'43
minimum elong	10862 Dec 12 09:54	28°♐20'24	8°12'29
min. Earth dist.	10862 Dec 12 10:39	28°♐19'13	0.29035 AU
morning rise	10862 Dec 16 02:49	26°♐02'48	
direct	10863 Jan 02 14:08	20°♐13'45	
greatest brilliancy	10863 Jan 13 08:24	22°♐19'36	-4.8m
asc. node	10863 Jan 25 13:14	28°♐47'26	
	10863 Jan 27 07:48	0°♑	
morning max el	10863 Feb 20 23:03	21°♑12'13	46°01'21
	10863 Mar 01 15:40	0°♒	
	10863 Mar 29 00:09	0°♓	
	10863 Apr 23 15:36	0°♈	
desc. node	10863 May 17 09:19	28°♈39'34	
	10863 May 18 11:41	0°♉	
	10863 Jun 11 21:09	0°♊	
	10863 Jul 06 01:07	0°♋	
	10863 Jul 30 03:13	0°♌	
	10863 Aug 23 05:34	0°♍	
morning set	10863 Aug 25 10:37	2°♍44'56	
asc. node	10863 Sep 07 02:53	18°♍30'30	
	10863 Sep 16 09:02	0°♎	
superior conj	10863 Oct 02 17:31	20°♎17'05	0°56'57
minimum elong	10863 Oct 02 07:40	19°♎46'34	0°56'44
max. Earth dist.	10863 Oct 04 14:34	22°♎36'39	1.72738 AU
	10863 Oct 10 13:46	0°♏	
	10863 Nov 03 20:12	0°♐	
evening rise	10863 Nov 08 14:57	5°♐53'43	
	10863 Nov 28 05:17	0°♑	
	10863 Dec 22 17:58	0°♒	
desc. node	10863 Dec 27 19:50	6°♒11'17	
	10864 Jan 16 10:34	0°♓	
	10864 Feb 10 07:14	0°♈	
	10864 Mar 06 09:43	0°♉	
	10864 Apr 01 00:28	0°♊	
asc. node	10864 Apr 18 18:25	20°♊03'01	
	10864 Apr 27 22:07	0°♋	
evening max el	10864 May 08 23:32	11°♋28'29	46°52'04
	10864 May 29 04:59	0°♌	
greatest brilliancy	10864 Jun 18 08:53	12°♌17'50	-4.9m
retrograde	10864 Jun 28 09:48	14°♌12'09	
evening set	10864 Jul 14 03:17	9°♌21'45	
inferior conj	10864 Jul 19 03:46	6°♌22'33	5°02'39
minimum elong	10864 Jul 19 13:52	6°♌07'07	4°59'23
min. Earth dist.	10864 Jul 19 06:59	6°♌17'37	0.27110 AU
morning rise	10864 Jul 25 00:33	2°♌55'31	
	10864 Jul 31 13:20	30°℞♋	
direct	10864 Aug 08 20:46	28°♋35'36	
desc. node	10864 Aug 08 17:55	28°♋35'37	
	10864 Aug 17 12:28	0°♌	
greatest brilliancy	10864 Aug 18 20:23	0°♌26'37	-4.8m
morning max el	10864 Sep 27 12:30	29°♌50'16	46°13'15
	10864 Sep 27 16:30	0°♍	
	10864 Oct 26 08:56	0°♎	
	10864 Nov 21 22:19	0°♏	
asc. node	10864 Nov 29 16:12	8°♏59'21	
	10864 Dec 17 12:11	0°♐	
	10865 Jan 11 12:03	0°♑	
	10865 Feb 05 03:01	0°♒	
	10865 Mar 01 12:04	0°♓	
desc. node	10865 Mar 21 08:51	24°♓37'20	
morning set	10865 Mar 25 19:51	0°♈09'53	
	10865 Mar 25 16:40	0°♈	
	10865 Apr 18 17:37	0°♉	
max. Earth dist.	10865 May 02 20:59	17°♉42'53	1.71475 AU
superior conj	10865 May 05 00:38	20°♉24'53	-1°23'01
minimum elong	10865 May 04 17:15	20°♉01'45	1°23'19
	10865 May 12 15:53	0°♊	
	10865 Jun 05 13:07	0°♋	
evening rise	10865 Jun 14 08:25	11°♋03'11	
	10865 Jun 29 11:21	0°♌	
asc. node	10865 Jul 12 02:42	15°♌47'40	
	10865 Jul 23 12:29	0°♍	
	10865 Aug 16 18:25	0°♎	
	10865 Sep 10 07:42	0°♏	
	10865 Oct 05 08:47	0°♐	
	10865 Oct 31 05:52	0°♑	
desc. node	10865 Oct 31 23:00	0°♑48'29	
	10865 Nov 27 16:50	0°♒	
evening max el	10865 Dec 12 16:52	15°♒03'36	45°50'26
	10865 Dec 29 14:13	0°♓	
greatest brilliancy	10866 Jan 20 18:23	13°♓19'28	-4.8m
retrograde	10866 Jan 30 13:46	15°♓04'25	
evening set	10866 Feb 14 08:26	10°♓48'25	
inferior conj	10866 Feb 20 14:11	7°♓05'30	-0°21'12
minimum elong	10866 Feb 20 14:59	7°♓04'16	0°20'40
min. Earth dist.	10866 Feb 21 00:31	6°♓49'26	0.27917 AU
asc. node	10866 Feb 21 23:56	6°♓13'06	
morning rise	10866 Feb 26 21:05	3°♓20'29	
	10866 Mar 06 17:27	30°℞♒	
direct	10866 Mar 13 17:47	28°♒59'46	
	10866 Mar 20 23:06	0°♓	
greatest brilliancy	10866 Mar 24 10:51	1°♓08'35	-4.8m
	10866 May 01 12:42	0°♈	
morning max el	10866 May 03 00:42	1°♈29'46	46°45'42
	10866 May 29 13:51	0°♉	
desc. node	10866 Jun 13 21:39	17°♉35'54	
	10866 Jun 24 10:38	0°♊	
	10866 Jul 19 10:33	0°♋	
	10866 Aug 13 01:27	0°♌	
	10866 Sep 06 12:46	0°♍	
	10866 Sep 30 22:38	0°♎	
asc. node	10866 Oct 04 16:19	4°♎35'47	
	10866 Oct 25 07:28	0°♏	
morning set	10866 Nov 03 18:11	11°♏38'37	
	10866 Nov 18 15:22	0°♐	

superior conj	10866 Dec 10 10:43	26°♐54'20	1°22'02
minimum elong	10866 Dec 10 16:18	27°♐11'33	1°22'33
max. Earth dist.	10866 Dec 10 19:15	27°♐20'40	1.73220 AU
	10866 Dec 12 22:55	0°♑	
	10867 Jan 06 06:49	0°♒	
evening rise	10867 Jan 16 17:57	12°♒53'34	
desc. node	10867 Jan 24 08:21	22°♒15'24	
	10867 Jan 30 15:14	0°♓	
	10867 Feb 23 23:45	0°♈	
	10867 Mar 20 08:11	0°♉	
	10867 Apr 13 17:43	0°♊	
	10867 May 08 07:52	0°♋	
asc. node	10867 May 17 05:04	10°♋43'22	
	10867 Jun 02 09:14	0°♌	
	10867 Jun 28 10:50	0°♍	
evening max el	10867 Jul 21 05:27	24°♍14'17	46°36'27
	10867 Jul 27 02:48	0°♎	
greatest brilliancy	10867 Aug 29 05:11	24°♎08'58	-4.8m
desc. node	10867 Sep 06 04:26	26°♎13'20	
retrograde	10867 Sep 09 07:48	26°♎24'51	
evening set	10867 Sep 24 21:40	21°♎41'25	
min. Earth dist.	10867 Sep 29 17:44	18°♎47'23	0.28237 AU
inferior conj	10867 Sep 30 14:27	18°♎15'09	-5°36'51
minimum elong	10867 Sep 30 04:23	18°♎30'50	5°34'20
morning rise	10867 Oct 05 11:42	15°♎18'08	
direct	10867 Oct 21 19:12	10°♎15'38	
greatest brilliancy	10867 Oct 31 07:29	11°♎54'23	-4.8m
	10867 Nov 28 10:58	0°♏	
morning max el	10867 Dec 09 13:05	10°♏07'54	45°42'12
asc. node	10867 Dec 28 04:13	29°♏03'16	
	10867 Dec 29 01:31	0°♐	
	10868 Jan 25 01:00	0°♑	
	10868 Feb 19 15:30	0°♒	
	10868 Mar 15 13:03	0°♓	
	10868 Apr 09 00:30	0°♈	
desc. node	10868 Apr 17 22:10	11°♈00'15	
	10868 May 03 05:11	0°♉	
	10868 May 27 05:20	0°♊	
morning set	10868 Jun 09 07:53	16°♊26'16	
	10868 Jun 20 03:13	0°♋	
	10868 Jul 14 01:04	0°♌	
superior conj	10868 Jul 19 05:04	6°♌28'22	-0°47'15
minimum elong	10868 Jul 19 15:24	7°♌00'42	0°47'20
max. Earth dist.	10868 Jul 21 17:14	9°♌36'42	1.71621 AU
	10868 Aug 07 00:32	0°♍	
asc. node	10868 Aug 08 15:35	2°♍01'53	
evening rise	10868 Aug 27 13:46	25°♍36'19	
	10868 Aug 31 02:38	0°♎	
	10868 Sep 24 08:10	0°♏	
	10868 Oct 18 18:35	0°♐	
	10868 Nov 12 12:09	0°♑	
desc. node	10868 Nov 28 10:02	19°♑02'46	
	10868 Dec 07 15:46	0°♒	
	10869 Jan 02 09:22	0°♓	
	10869 Jan 29 01:57	0°♈	
evening max el	10869 Feb 22 12:37	25°♈33'38	46°20'52
	10869 Feb 27 02:39	0°♉	
asc. node	10869 Mar 21 10:16	18°♉35'07	
greatest brilliancy	10869 Apr 03 16:26	25°♉33'47	-4.9m
retrograde	10869 Apr 13 08:29	27°♉19'21	
evening set	10869 Apr 30 13:37	21°♉38'44	
inferior conj	10869 May 04 01:56	19°♉30'24	8°39'36
minimum elong	10869 May 03 18:35	19°♉41'46	8°38'23
min. Earth dist.	10869 May 04 02:17	19°♉29'53	0.27294 AU
morning rise	10869 May 06 23:28	17°♉43'45	
direct	10869 May 24 19:39	11°♉37'11	
greatest brilliancy	10869 Jun 03 15:47	13°♉26'20	-4.9m
	10869 Jun 29 00:30	0°♊	
desc. node	10869 Jul 11 09:11	11°♊29'13	
morning max el	10869 Jul 14 06:23	14°♊21'10	46°55'16
	10869 Jul 29 05:20	0°♋	
	10869 Aug 24 22:56	0°♌	
	10869 Sep 19 14:25	0°♍	
	10869 Oct 14 18:14	0°♎	
asc. node	10869 Nov 01 05:26	21°♎02'48	
	10869 Nov 08 14:52	0°♏	
	10869 Dec 03 05:58	0°♐	
	10869 Dec 27 16:55	0°♑	
morning set	10870 Jan 11 08:45	18°♑03'08	
	10870 Jan 21 01:07	0°♒	
	10870 Feb 14 07:20	0°♓	
max. Earth dist.	10870 Feb 15 14:12	1°♓35'35	1.72647 AU
superior conj	10870 Feb 18 01:21	4°♓38'50	0°06'54
minimum elong	10870 Feb 18 03:02	4°♓44'03	0°07'06
behind sun begin	10870 Feb 17 05:13	3°♓36'25	
behind sun end	10870 Feb 19 00:52	5°♓51'41	
desc. node	10870 Feb 20 21:23	8°♓09'40	
	10870 Mar 10 11:38	0°♈	
evening rise	10870 Mar 28 22:53	22°♈59'29	
	10870 Apr 03 13:49	0°♉	
	10870 Apr 27 14:31	0°♊	
	10870 May 21 15:37	0°♋	
asc. node	10870 Jun 13 16:31	28°♋35'30	
	10870 Jun 14 19:52	0°♌	
	10870 Jul 09 06:46	0°♍	
	10870 Aug 03 05:25	0°♎	
	10870 Aug 29 02:06	0°♏	
	10870 Sep 26 00:36	0°♐	
evening max el	10870 Sep 30 01:16	3°♐59'03	45°59'23
desc. node	10870 Oct 03 14:35	7°♐24'02	
	10870 Nov 01 22:03	0°♑	
greatest brilliancy	10870 Nov 08 04:20	2°♑45'06	-4.7m
retrograde	10870 Nov 18 06:57	4°♑37'01	
	10870 Dec 03 18:10	30°℞♐	
evening set	10870 Dec 06 10:35	28°♐26'13	
inferior conj	10870 Dec 09 19:33	26°♐20'39	-8°19'47
minimum elong	10870 Dec 10 01:20	26°♐11'34	8°18'42
min. Earth dist.	10870 Dec 10 01:34	26°♐11'11	0.29053 AU
morning rise	10870 Dec 13 16:00	23°♐57'31	
direct	10870 Dec 31 06:13	18°♐03'48	
greatest brilliancy	10871 Jan 10 23:52	20°♐09'20	-4.8m
asc. node	10871 Jan 24 15:17	27°♐34'42	
	10871 Jan 28 00:03	0°♑	
morning max el	10871 Feb 18 15:14	19°♑01'16	46°00'01
	10871 Mar 01 10:14	0°♒	
	10871 Mar 28 14:33	0°♓	
	10871 Apr 23 04:19	0°♈	
desc. node	10871 May 16 11:09	28°♈08'54	
	10871 May 17 23:33	0°♉	
	10871 Jun 11 08:30	0°♊	
	10871 Jul 05 12:08	0°♋	
	10871 Jul 29 13:58	0°♌	
	10871 Aug 22 16:08	0°♍	
morning set	10871 Aug 23 01:14	0°♍28'19	
asc. node	10871 Sep 06 04:44	18°♍03'44	
	10871 Sep 15 19:27	0°♎	
superior conj	10871 Sep 30 09:41	18°♎06'15	0°54'21
minimum elong	10871 Sep 29 23:56	17°♎36'04	0°54'07
max. Earth dist.	10871 Oct 02 08:41	20°♎31'56	1.72709 AU
	10871 Oct 10 00:07	0°♏	
	10871 Nov 03 06:36	0°♐	

evening rise	10871 Nov 06	08:06	3♐46'34	
	10871 Nov 27	15:51	0♑	
	10871 Dec 22	04:49	0♒	
desc. node	10871 Dec 26	21:50	5♒44'06	
	10872 Jan 15	21:50	0♓	
	10872 Feb 09	19:10	0♈	
	10872 Mar 05	22:43	0♉	
	10872 Mar 31	15:24	0♊	
asc. node	10872 Apr 17	20:20	19♊20'41	
	10872 Apr 27	17:26	0♋	
evening max el	10872 May 06	14:04	9♋08'14	46°51'45
	10872 May 29	20:03	0♌	
greatest brilliancy	10872 Jun 15	22:37	9♌54'29	-4.9m
retrograde	10872 Jun 25	23:41	11♌48'31	
evening set	10872 Jul 11	19:36	6♌53'48	
inferior conj	10872 Jul 16	16:45	3♌59'09	5°22'38
minimum elong	10872 Jul 17	03:14	3♌43'07	5°19'20
min. Earth dist.	10872 Jul 16	20:21	3♌53'38	0.27099 AU
morning rise	10872 Jul 22	11:02	0♌35'43	
	10872 Jul 23	13:58	30°℞♋	
direct	10872 Aug 06	10:13	26°♋12'24	
desc. node	10872 Aug 07	19:56	26°♋14'46	
greatest brilliancy	10872 Aug 16	08:43	28°♋03'01	-4.8m
	10872 Aug 20	23:46	0°♌	
morning max el	10872 Sep 25	03:21	27°♌34'15	46°14'54
	10872 Sep 27	14:41	0°♍	
	10872 Oct 26	00:28	0°♎	
	10872 Nov 21	11:22	0°♏	
asc. node	10872 Nov 28	18:14	8°♏28'28	
	10872 Dec 17	00:03	0°♐	
	10873 Jan 10	23:18	0°♑	
	10873 Feb 04	13:56	0°♒	
	10873 Feb 28	22:48	0°♓	
desc. node	10873 Mar 20	10:41	24°♓09'51	
morning set	10873 Mar 23	08:39	27°♓47'19	
	10873 Mar 25	03:20	0°♈	
	10873 Apr 18	04:15	0°♉	
max. Earth dist.	10873 Apr 30	05:14	15°♉04'51	1.71500 AU
superior conj	10873 May 02	12:13	17°♉57'14	-1°21'40
minimum elong	10873 May 02	04:04	17°♉31'41	1°21'56
	10873 May 12	02:33	0°♊	
	10873 Jun 04	23:51	0°♋	
evening rise	10873 Jun 11	19:17	8°♋32'56	
	10873 Jun 28	22:09	0°♌	
asc. node	10873 Jul 11	04:42	15°♌20'00	
	10873 Jul 22	23:26	0°♍	
	10873 Aug 16	05:36	0°♎	
	10873 Sep 09	19:18	0°♏	
	10873 Oct 04	21:11	0°♐	
	10873 Oct 30	19:54	0°♑	
desc. node	10873 Oct 31	00:59	0°♑14'21	
	10873 Nov 27	10:52	0°♒	
evening max el	10873 Dec 10	08:08	12°♒51'39	45°49'49
	10873 Dec 30	01:54	0°♓	
greatest brilliancy	10874 Jan 18	09:23	11°♓05'11	-4.8m
retrograde	10874 Jan 28	03:42	12°♓49'02	
evening set	10874 Feb 12	00:16	8°♓31'34	
inferior conj	10874 Feb 18	04:58	4°♓49'47	-0°43'14
minimum elong	10874 Feb 18	06:36	4°♓47'15	0°42'25
min. Earth dist.	10874 Feb 18	16:05	4°♓32'27	0.27959 AU
asc. node	10874 Feb 21	01:54	3°♓03'10	
morning rise	10874 Feb 24	12:26	1°♓03'28	
	10874 Feb 26	13:21	30°℞♒	
direct	10874 Mar 11	09:01	26°♒43'34	
greatest brilliancy	10874 Mar 22	02:46	28°♒52'35	-4.8m
	10874 Mar 24	18:41	0°♓	
morning max el	10874 Apr 30	14:30	29°♓09'04	46°44'21
	10874 May 01	10:47	0°♈	
	10874 May 29	05:43	0°♉	
desc. node	10874 Jun 12	23:45	17°♉00'12	
	10874 Jun 24	00:13	0°♊	
	10874 Jul 18	22:59	0°♋	
	10874 Aug 12	13:10	0°♌	
	10874 Sep 06	00:00	0°♍	
	10874 Sep 30	09:32	0°♎	
asc. node	10874 Oct 03	18:08	4°♎07'58	
	10874 Oct 24	18:07	0°♏	
morning set	10874 Nov 01	11:01	9°♏29'57	
	10874 Nov 18	01:53	0°♐	
superior conj	10874 Dec 08	04:14	24°♐48'03	1°22'58
minimum elong	10874 Dec 08	09:12	25°♐03'21	1°23'30
max. Earth dist.	10874 Dec 08	13:30	25°♐16'38	1.73217 AU
	10874 Dec 12	09:23	0°♑	
	10875 Jan 05	17:21	0°♒	
evening rise	10875 Jan 14	10:12	10°♒43'07	
desc. node	10875 Jan 23	10:18	21°♒48'30	
	10875 Jan 30	01:58	0°♓	
	10875 Feb 23	10:47	0°♈	
	10875 Mar 19	19:34	0°♉	
	10875 Apr 13	05:37	0°♊	
	10875 May 07	20:31	0°♋	
asc. node	10875 May 16	07:05	10°♋10'16	
	10875 Jun 01	23:11	0°♌	
	10875 Jun 28	03:33	0°♍	
evening max el	10875 Jul 18	19:38	21°♍54'26	46°37'37
	10875 Jul 27	04:03	0°♎	
greatest brilliancy	10875 Aug 26	21:27	21°♎54'15	-4.8m
desc. node	10875 Sep 05	06:21	24°♎05'55	
retrograde	10875 Sep 06	22:40	24°♎09'15	
evening set	10875 Sep 22	10:19	19°♎29'52	
min. Earth dist.	10875 Sep 27	09:16	16°♎32'00	0.28179 AU
inferior conj	10875 Sep 28	05:29	16°♎00'33	-5°20'18
minimum elong	10875 Sep 27	19:35	16°♎15'57	5°17'46
morning rise	10875 Oct 03	05:25	12°♎59'32	
direct	10875 Oct 19	09:14	8°♎01'47	
greatest brilliancy	10875 Oct 28	22:24	9°♎40'48	-4.8m
	10875 Nov 28	14:43	0°♏	
morning max el	10875 Dec 07	02:43	7°♏51'42	45°42'38
asc. node	10875 Dec 27	06:11	28°♏23'15	
	10875 Dec 28	18:17	0°♐	
	10876 Jan 24	14:38	0°♑	
	10876 Feb 19	03:47	0°♒	
	10876 Mar 15	00:41	0°♓	
	10876 Apr 08	11:49	0°♈	
desc. node	10876 Apr 17	00:05	10°♈31'25	
	10876 May 02	16:19	0°♉	
	10876 May 26	16:21	0°♊	
morning set	10876 Jun 06	19:02	13°♊56'16	
	10876 Jun 19	14:08	0°♋	
	10876 Jul 13	11:55	0°♌	
superior conj	10876 Jul 16	17:18	4°♌02'24	-0°50'26
minimum elong	10876 Jul 17	04:03	4°♌36'06	0°50'31
max. Earth dist.	10876 Jul 19	01:00	6°♌56'52	1.71587 AU
	10876 Aug 06	11:22	0°♍	
asc. node	10876 Aug 07	17:23	1°♍33'41	
evening rise	10876 Aug 25	04:06	23°♍17'55	
	10876 Aug 30	13:30	0°♎	
	10876 Sep 23	19:08	0°♏	
	10876 Oct 18	05:46	0°♐	
	10876 Nov 11	23:47	0°♑	
desc. node	10876 Nov 27	12:06	18°♑32'58	

	10876 Dec 07 04:11	0°♒	
	10877 Jan 01 23:12	0°♓	
	10877 Jan 28 18:45	0°♈	
evening max el	10877 Feb 20 01:40	23°♈11'31	46°19'28
	10877 Feb 27 04:17	0°♉	
asc. node	10877 Mar 20 12:08	17°♉12'28	
greatest brilliancy	10877 Apr 01 04:53	23°♉09'21	-4.8m
retrograde	10877 Apr 10 21:32	24°♉55'47	
evening set	10877 Apr 27 22:20	19°♉21'05	
inferior conj	10877 May 01 15:10	17°♉06'20	8°30'44
minimum elong	10877 May 01 07:06	17°♉18'47	8°29'21
min. Earth dist.	10877 May 01 15:13	17°♉06'15	0.27310 AU
morning rise	10877 May 04 15:47	15°♉15'13	
direct	10877 May 22 08:57	9°♉12'26	
greatest brilliancy	10877 Jun 01 05:51	11°♉02'35	-4.9m
	10877 Jun 29 07:23	0°♊	
desc. node	10877 Jul 10 11:09	10°♊35'17	
morning max el	10877 Jul 11 20:33	11°♊58'45	46°56'02
	10877 Jul 28 23:41	0°♋	
	10877 Aug 24 13:42	0°♌	
	10877 Sep 19 03:30	0°♍	
	10877 Oct 14 06:19	0°♎	
asc. node	10877 Oct 31 07:25	20°♎33'45	
	10877 Nov 08 02:19	0°♏	
	10877 Dec 02 17:02	0°♐	
	10877 Dec 27 03:47	0°♑	
morning set	10878 Jan 09 01:45	15°♑54'16	
	10878 Jan 20 11:53	0°♒	
max. Earth dist.	10878 Feb 13 09:49	29°♒34'16	1.72681 AU
	10878 Feb 13 18:07	0°♓	
superior conj	10878 Feb 15 16:26	2°♓23'27	0°10'23
minimum elong	10878 Feb 15 18:56	2°♓31'11	0°10'35
behind sun begin	10878 Feb 15 00:39	1°♓34'34	
behind sun end	10878 Feb 16 13:12	3°♓27'47	
desc. node	10878 Feb 19 23:14	7°♓41'59	
	10878 Mar 09 22:28	0°♈	
evening rise	10878 Mar 26 12:53	20°♈39'33	
	10878 Apr 03 00:46	0°♉	
	10878 Apr 27 01:40	0°♊	
	10878 May 21 03:02	0°♋	
asc. node	10878 Jun 12 18:30	28°♋05'13	
	10878 Jun 14 07:41	0°♌	
	10878 Jul 08 19:09	0°♍	
	10878 Aug 02 18:46	0°♎	
	10878 Aug 28 17:29	0°♏	
	10878 Sep 25 21:36	0°♐	
evening max el	10878 Sep 27 17:02	1°♐46'41	46°00'33
desc. node	10878 Oct 02 16:35	6°♐32'27	
	10878 Nov 04 07:31	0°♑	
greatest brilliancy	10878 Nov 05 18:25	0°♑32'48	-4.7m
retrograde	10878 Nov 15 23:29	2°♑26'41	
	10878 Nov 27 01:26	30°℞♐	
evening set	10878 Dec 04 04:11	26°♐13'02	
inferior conj	10878 Dec 07 11:39	24°♐09'44	-8°25'16
minimum elong	10878 Dec 07 16:45	24°♐01'43	8°24'18
min. Earth dist.	10878 Dec 07 16:09	24°♐02'40	0.29064 AU
morning rise	10878 Dec 11 05:19	21°♐51'00	
direct	10878 Dec 28 22:50	15°♐53'02	
greatest brilliancy	10879 Jan 08 14:41	17°♐57'26	-4.7m
asc. node	10879 Jan 23 17:13	26°♐22'55	
	10879 Jan 28 12:34	0°♑	
morning max el	10879 Feb 16 07:50	16°♑50'27	45°58'46
	10879 Mar 01 04:41	0°♒	
	10879 Mar 28 05:06	0°♓	
	10879 Apr 22 17:15	0°♈	
desc. node	10879 May 15 13:14	27°♈38'11	
	10879 May 17 11:39	0°♉	
	10879 Jun 10 20:09	0°♊	
	10879 Jul 04 23:31	0°♋	
	10879 Jul 29 01:10	0°♌	
morning set	10879 Aug 20 15:29	28°♌08'59	
	10879 Aug 22 03:10	0°♍	
asc. node	10879 Sep 05 06:37	17°♍35'34	
	10879 Sep 15 06:21	0°♎	
superior conj	10879 Sep 28 01:20	15°♎52'16	0°51'38
minimum elong	10879 Sep 27 15:46	15°♎22'38	0°51'21
max. Earth dist.	10879 Sep 30 03:27	18°♎27'39	1.72676 AU
	10879 Oct 09 10:57	0°♏	
	10879 Nov 02 17:28	0°♐	
evening rise	10879 Nov 04 00:56	1°♐37'00	
	10879 Nov 27 02:51	0°♑	
	10879 Dec 21 16:05	0°♒	
desc. node	10879 Dec 25 23:46	5°♒15'27	
	10880 Jan 15 09:32	0°♓	
	10880 Feb 09 07:33	0°♈	
	10880 Mar 05 12:10	0°♉	
	10880 Mar 31 06:50	0°♊	
asc. node	10880 Apr 16 22:27	18°♊37'40	
	10880 Apr 27 13:37	0°♋	
evening max el	10880 May 04 04:47	6°♋47'44	46°51'18
	10880 May 30 16:43	0°♌	
greatest brilliancy	10880 Jun 13 12:35	7°♌30'55	-4.9m
retrograde	10880 Jun 23 13:16	9°♌24'08	
evening set	10880 Jul 09 12:05	4°♌25'15	
inferior conj	10880 Jul 14 05:50	1°♌35'04	5°41'55
minimum elong	10880 Jul 14 16:36	1°♌18'33	5°38'38
min. Earth dist.	10880 Jul 14 09:48	1°♌28'59	0.27095 AU
	10880 Jul 16 20:26	30°℞♋	
morning rise	10880 Jul 19 21:20	28°♋15'19	
direct	10880 Aug 03 23:49	23°♋48'32	
desc. node	10880 Aug 06 21:52	23°♋58'37	
greatest brilliancy	10880 Aug 13 21:16	25°♋38'26	-4.8m
	10880 Aug 22 23:31	0°♌	
morning max el	10880 Sep 22 17:26	25°♌14'46	46°16'21
	10880 Sep 27 12:34	0°♍	
	10880 Oct 25 16:18	0°♎	
	10880 Nov 21 00:50	0°♏	
asc. node	10880 Nov 27 20:13	7°♏56'08	
	10880 Dec 16 12:18	0°♐	
	10881 Jan 10 10:54	0°♑	
	10881 Feb 04 01:10	0°♒	
	10881 Feb 28 09:50	0°♓	
desc. node	10881 Mar 19 12:35	23°♓41'40	
morning set	10881 Mar 20 21:41	25°♓24'30	
	10881 Mar 24 14:17	0°♈	
	10881 Apr 17 15:12	0°♉	
max. Earth dist.	10881 Apr 27 11:11	12°♉18'49	1.71525 AU
superior conj	10881 Apr 30 00:11	15°♉29'59	-1°20'11
minimum elong	10881 Apr 29 15:21	15°♉02'17	1°20'23
	10881 May 11 13:31	0°♊	
	10881 Jun 04 10:50	0°♋	
evening rise	10881 Jun 09 06:27	6°♋02'52	
	10881 Jun 28 09:12	0°♌	
asc. node	10881 Jul 10 06:32	14°♌50'59	
	10881 Jul 22 10:38	0°♍	
	10881 Aug 15 17:05	0°♎	
	10881 Sep 09 07:16	0°♏	
	10881 Oct 04 10:02	0°♐	
desc. node	10881 Oct 30 03:02	29°♐38'57	
	10881 Oct 30 10:31	0°♑	
	10881 Nov 27 05:51	0°♒	

evening max el	10881 Dec 07 22:31	10°♒36'24	45°49'23
	10881 Dec 30 18:14	0°♓	
greatest brilliancy	10882 Jan 16 00:45	8°♓50'30	-4.8m
retrograde	10882 Jan 25 17:28	10°♓33'15	
evening set	10882 Feb 09 16:20	6°♓13'52	
inferior conj	10882 Feb 15 19:52	2°♓33'41	-1°05'00
minimum elong	10882 Feb 15 22:19	2°♓29'52	1°03'55
min. Earth dist.	10882 Feb 16 07:56	2°♓14'50	0.27998 AU
asc. node	10882 Feb 20 03:51	29°♒54'22	
	10882 Feb 20 00:02	30°℞♒	
morning rise	10882 Feb 22 03:41	28°♒46'22	
direct	10882 Mar 08 23:52	24°♒26'51	
greatest brilliancy	10882 Mar 19 19:13	26°♒36'48	-4.8m
	10882 Mar 26 20:04	0°♓	
morning max el	10882 Apr 28 03:58	26°♓46'53	46°43'04
	10882 May 01 08:15	0°♈	
	10882 May 28 21:31	0°♉	
desc. node	10882 Jun 12 01:36	16°♉23'36	
	10882 Jun 23 13:50	0°♊	
	10882 Jul 18 11:28	0°♋	
	10882 Aug 12 00:57	0°♌	
	10882 Sep 05 11:21	0°♍	
	10882 Sep 29 20:35	0°♎	
asc. node	10882 Oct 02 20:06	3°♎40'11	
	10882 Oct 24 04:59	0°♏	
morning set	10882 Oct 30 03:39	7°♏19'56	
	10882 Nov 17 12:38	0°♐	
superior conj	10882 Dec 05 21:32	22°♐40'18	1°23'47
minimum elong	10882 Dec 06 01:51	22°♐53'37	1°24'20
max. Earth dist.	10882 Dec 06 05:49	23°♐05'51	1.73217 AU
	10882 Dec 11 20:07	0°♑	
	10883 Jan 05 04:08	0°♒	
evening rise	10883 Jan 12 02:11	8°♒31'12	
desc. node	10883 Jan 22 12:05	21°♒20'27	
	10883 Jan 29 12:55	0°♓	
	10883 Feb 22 21:59	0°♈	
	10883 Mar 19 07:08	0°♉	
	10883 Apr 12 17:40	0°♊	
	10883 May 07 09:21	0°♋	
asc. node	10883 May 15 09:04	9°♋36'35	
	10883 Jun 01 13:24	0°♌	
	10883 Jun 27 20:41	0°♍	
evening max el	10883 Jul 16 09:21	19°♍33'17	46°38'50
	10883 Jul 27 06:46	0°♎	
greatest brilliancy	10883 Aug 24 13:16	19°♎38'52	-4.8m
desc. node	10883 Sep 04 08:21	21°♎53'43	
retrograde	10883 Sep 04 13:39	21°♎53'47	
evening set	10883 Sep 19 23:07	17°♎17'47	
min. Earth dist.	10883 Sep 25 00:45	14°♎16'35	0.28126 AU
inferior conj	10883 Sep 25 20:30	13°♎45'53	-5°03'10
minimum elong	10883 Sep 25 10:52	14°♎00'52	5°00'37
morning rise	10883 Sep 30 23:08	10°♎41'08	
direct	10883 Oct 16 23:12	5°♎47'39	
greatest brilliancy	10883 Oct 26 13:39	7°♎27'32	-4.8m
	10883 Nov 28 16:56	0°♏	
morning max el	10883 Dec 04 16:53	5°♏36'27	45°42'59
asc. node	10883 Dec 26 08:04	27°♏43'09	
	10883 Dec 28 10:51	0°♐	
	10884 Jan 24 04:17	0°♑	
	10884 Feb 18 16:08	0°♒	
	10884 Mar 14 12:23	0°♓	
	10884 Apr 07 23:08	0°♈	
desc. node	10884 Apr 16 02:04	10°♈02'51	
	10884 May 02 03:25	0°♉	
	10884 May 26 03:18	0°♊	
morning set	10884 Jun 04 06:06	11°♊26'03	
	10884 Jun 19 01:01	0°♋	
	10884 Jul 12 22:45	0°♌	
superior conj	10884 Jul 14 05:33	1°♌36'33	-0°53'32
minimum elong	10884 Jul 14 16:40	2°♌11'23	0°53'37
max. Earth dist.	10884 Jul 16 08:20	4°♌15'38	1.71556 AU
	10884 Aug 05 22:10	0°♍	
asc. node	10884 Aug 06 19:18	1°♍05'58	
evening rise	10884 Aug 22 18:32	21°♍00'03	
	10884 Aug 30 00:18	0°♎	
	10884 Sep 23 06:01	0°♏	
	10884 Oct 17 16:53	0°♐	
	10884 Nov 11 11:22	0°♑	
desc. node	10884 Nov 26 13:59	18°♑02'47	
	10884 Dec 06 16:38	0°♒	
	10885 Jan 01 13:11	0°♓	
	10885 Jan 28 11:57	0°♈	
evening max el	10885 Feb 17 15:37	20°♈51'44	46°18'12
	10885 Feb 27 07:28	0°♉	
asc. node	10885 Mar 19 14:16	15°♉47'29	
greatest brilliancy	10885 Mar 29 16:53	20°♉44'39	-4.8m
retrograde	10885 Apr 08 11:07	22°♉32'20	
evening set	10885 Apr 25 07:01	17°♉03'37	
inferior conj	10885 Apr 29 04:21	14°♉42'23	8°21'02
minimum elong	10885 Apr 28 19:39	14°♉55'47	8°19'28
min. Earth dist.	10885 Apr 29 03:48	14°♉43'14	0.27321 AU
morning rise	10885 May 02 08:13	12°♉46'37	
direct	10885 May 19 22:41	6°♉48'10	
greatest brilliancy	10885 May 29 19:13	8°♉38'32	-4.9m
	10885 Jun 29 11:57	0°♊	
morning max el	10885 Jul 09 11:11	9°♊38'10	46°56'39
desc. node	10885 Jul 09 13:06	9°♊42'59	
	10885 Jul 28 17:23	0°♋	
	10885 Aug 24 04:06	0°♌	
	10885 Sep 18 16:17	0°♍	
	10885 Oct 13 18:09	0°♎	
asc. node	10885 Oct 30 09:22	20°♎05'13	
	10885 Nov 07 13:32	0°♏	
	10885 Dec 02 03:52	0°♐	
	10885 Dec 26 14:26	0°♑	
morning set	10886 Jan 06 18:44	13°♑46'02	
	10886 Jan 19 22:29	0°♒	
max. Earth dist.	10886 Feb 11 04:23	27°♒30'13	1.72718 AU
superior conj	10886 Feb 13 07:18	0°♓07'53	0°13'53
minimum elong	10886 Feb 13 10:35	0°♓18'04	0°14'04
behind sun begin	10886 Feb 12 23:00	29°♒42'11	
behind sun end	10886 Feb 13 22:11	0°♓53'58	
	10886 Feb 13 04:45	0°♓	
desc. node	10886 Feb 19 01:12	7°♓15'02	
	10886 Mar 09 09:11	0°♈	
evening rise	10886 Mar 24 02:28	18°♈18'47	
	10886 Apr 02 11:36	0°♉	
	10886 Apr 26 12:40	0°♊	
	10886 May 20 14:17	0°♋	
asc. node	10886 Jun 11 20:21	27°♋35'13	
	10886 Jun 13 19:17	0°♌	
	10886 Jul 08 07:19	0°♍	
	10886 Aug 02 07:58	0°♎	
	10886 Aug 28 08:49	0°♏	
evening max el	10886 Sep 25 09:18	29°♏36'16	46°01'43
	10886 Sep 25 19:02	0°♐	
desc. node	10886 Oct 01 18:42	5°♐41'02	
greatest brilliancy	10886 Nov 03 08:56	28°♐21'59	-4.7m
	10886 Nov 09 19:06	0°♑	
retrograde	10886 Nov 13 15:56	0°♑17'08	
	10886 Nov 17 10:52	30°℞♐	

evening set	10886 Dec 01 21:34	24°♐01'25	
inferior conj	10886 Dec 05 03:45	21°♐59'53	-8°30'02
minimum elong	10886 Dec 05 08:10	21°♐52'57	8°29'09
min. Earth dist.	10886 Dec 05 06:39	21°♐55'20	0.29071 AU
morning rise	10886 Dec 08 18:48	19°♐45'07	
direct	10886 Dec 26 15:33	13°♐43'38	
greatest brilliancy	10887 Jan 06 04:58	15°♐46'03	-4.7m
asc. node	10887 Jan 22 19:12	25°♐14'21	
	10887 Jan 28 21:18	0°♑	
morning max el	10887 Feb 13 23:42	14°♑38'55	45°57'19
	10887 Feb 28 22:21	0°♒	
	10887 Mar 27 19:14	0°♓	
	10887 Apr 22 05:54	0°♈	
desc. node	10887 May 14 15:05	27°♈07'24	
	10887 May 16 23:31	0°♉	
	10887 Jun 10 07:33	0°♊	
	10887 Jul 04 10:36	0°♋	
	10887 Jul 28 12:01	0°♌	
morning set	10887 Aug 18 05:39	25°♌50'26	
	10887 Aug 21 13:50	0°♍	
asc. node	10887 Sep 04 08:34	17°♍08'40	
	10887 Sep 14 16:54	0°♎	
superior conj	10887 Sep 25 16:57	13°♎39'14	0°48'49
minimum elong	10887 Sep 25 07:38	13°♎10'20	0°48'31
max. Earth dist.	10887 Sep 27 22:40	16°♎25'47	1.72642 AU
	10887 Oct 08 21:27	0°♏	
evening rise	10887 Nov 01 17:50	29°♏28'37	
	10887 Nov 02 04:00	0°♐	
	10887 Nov 26 13:31	0°♑	
	10887 Dec 21 02:59	0°♒	
desc. node	10887 Dec 25 01:38	4°♒47'47	
	10888 Jan 14 20:53	0°♓	
	10888 Feb 08 19:36	0°♈	
	10888 Mar 05 01:25	0°♉	
	10888 Mar 30 22:15	0°♊	
asc. node	10888 Apr 16 00:22	17°♊54'11	
	10888 Apr 27 10:17	0°♋	
evening max el	10888 May 01 18:37	4°♋25'25	46°50'41
	10888 May 31 20:56	0°♌	
greatest brilliancy	10888 Jun 11 03:02	5°♌08'02	-4.9m
retrograde	10888 Jun 21 02:13	6°♌59'39	
evening set	10888 Jul 07 04:31	1°♌56'36	
	10888 Jul 10 10:53	30°℞♋	
inferior conj	10888 Jul 11 18:44	29°♋11'11	6°00'46
minimum elong	10888 Jul 12 05:44	28°♋54'19	5°57'30
min. Earth dist.	10888 Jul 11 23:20	29°♋04'07	0.27086 AU
morning rise	10888 Jul 17 07:08	25°♋55'21	
direct	10888 Aug 01 12:40	21°♋24'53	
desc. node	10888 Aug 05 23:54	21°♋48'10	
greatest brilliancy	10888 Aug 11 09:57	23°♋14'25	-4.8m
	10888 Aug 24 07:22	0°♌	
morning max el	10888 Sep 20 06:21	22°♌53'15	46°17'55
	10888 Sep 27 09:14	0°♍	
	10888 Oct 25 07:27	0°♎	
	10888 Nov 20 13:45	0°♏	
asc. node	10888 Nov 26 22:00	7°♏24'34	
	10888 Dec 16 00:06	0°♐	
	10889 Jan 09 22:04	0°♑	
	10889 Feb 03 11:59	0°♒	
	10889 Feb 27 20:28	0°♓	
morning set	10889 Mar 18 10:54	23°♓03'31	
desc. node	10889 Mar 18 14:33	23°♓14'50	
	10889 Mar 24 00:52	0°♈	
	10889 Apr 17 01:49	0°♉	
max. Earth dist.	10889 Apr 24 16:55	9°♉33'11	1.71560 AU
superior conj	10889 Apr 27 12:06	13°♉03'36	-1°18'32
minimum elong	10889 Apr 27 02:37	12°♉33'55	1°18'41
	10889 May 11 00:11	0°♊	
	10889 Jun 03 21:34	0°♋	
evening rise	10889 Jun 06 17:13	3°♋32'19	
	10889 Jun 27 20:00	0°♌	
asc. node	10889 Jul 09 08:27	14°♌23'02	
	10889 Jul 21 21:35	0°♍	
	10889 Aug 15 04:17	0°♎	
	10889 Sep 08 18:57	0°♏	
	10889 Oct 03 22:36	0°♐	
desc. node	10889 Oct 29 04:55	29°♐03'58	
	10889 Oct 30 00:55	0°♑	
	10889 Nov 27 00:55	0°♒	
evening max el	10889 Dec 05 12:15	8°♒20'54	45°49'04
	10889 Dec 31 15:23	0°♓	
greatest brilliancy	10890 Jan 13 16:05	6°♓37'19	-4.8m
retrograde	10890 Jan 23 07:39	8°♓19'29	
evening set	10890 Feb 07 08:39	3°♓57'34	
inferior conj	10890 Feb 13 10:55	0°♓19'22	-1°26'35
minimum elong	10890 Feb 13 14:09	0°♓14'19	1°25'14
	10890 Feb 13 23:19	30°℞♒	
min. Earth dist.	10890 Feb 13 23:56	29°♒59'03	0.28040 AU
asc. node	10890 Feb 19 05:54	26°♒49'37	
morning rise	10890 Feb 19 18:57	26°♒31'33	
direct	10890 Mar 06 14:39	22°♒11'46	
greatest brilliancy	10890 Mar 17 11:58	24°♒23'11	-4.8m
	10890 Mar 28 03:58	0°♓	
morning max el	10890 Apr 25 17:55	24°♓27'21	46°41'43
	10890 May 01 04:30	0°♈	
	10890 May 28 12:41	0°♉	
desc. node	10890 Jun 11 03:31	15°♉48'25	
	10890 Jun 23 03:03	0°♊	
	10890 Jul 17 23:39	0°♋	
	10890 Aug 11 12:30	0°♌	
	10890 Sep 04 22:26	0°♍	
	10890 Sep 29 07:21	0°♎	
asc. node	10890 Oct 01 22:00	3°♎12'59	
	10890 Oct 23 15:31	0°♏	
morning set	10890 Oct 27 20:06	5°♏10'14	
	10890 Nov 16 23:02	0°♐	
superior conj	10890 Dec 03 14:50	20°♐33'35	1°24'29
minimum elong	10890 Dec 03 18:28	20°♐44'48	1°25'02
max. Earth dist.	10890 Dec 03 23:16	20°♐59'39	1.73217 AU
	10890 Dec 11 06:30	0°♑	
	10891 Jan 04 14:37	0°♒	
evening rise	10891 Jan 09 18:25	6°♒21'04	
desc. node	10891 Jan 21 14:05	20°♒53'59	
	10891 Jan 28 23:34	0°♓	
	10891 Feb 22 08:53	0°♈	
	10891 Mar 18 18:23	0°♉	
	10891 Apr 12 05:26	0°♊	
	10891 May 06 21:56	0°♋	
asc. node	10891 May 14 10:57	9°♋03'27	
	10891 Jun 01 03:27	0°♌	
	10891 Jun 27 13:57	0°♍	
evening max el	10891 Jul 13 23:18	17°♍13'10	46°39'55
	10891 Jul 27 11:02	0°♎	
greatest brilliancy	10891 Aug 22 04:27	17°♎22'30	-4.8m
retrograde	10891 Sep 02 04:51	19°♎38'00	
desc. node	10891 Sep 03 10:24	19°♎36'10	
evening set	10891 Sep 17 11:48	15°♎04'57	
min. Earth dist.	10891 Sep 22 15:46	12°♎00'55	0.28072 AU
inferior conj	10891 Sep 23 11:15	11°♎30'44	-4°45'12
minimum elong	10891 Sep 23 01:56	11°♎45'10	4°42'43
morning rise	10891 Sep 28 16:35	8°♎22'33	

direct	10891 Oct 14 13:08	3°♎33'02	
greatest brilliancy	10891 Oct 24 04:21	5°♎13'43	-4.8m
	10891 Nov 28 17:33	0°♏	
morning max el	10891 Dec 02 07:43	3°♏23'25	45°43'31
asc. node	10891 Dec 25 10:06	27°♏04'39	
	10891 Dec 28 02:49	0°♐	
	10892 Jan 23 17:31	0°♑	
	10892 Feb 18 04:09	0°♒	
	10892 Mar 13 23:47	0°♓	
	10892 Apr 07 10:12	0°♈	
desc. node	10892 Apr 15 03:52	9°♈34'26	
	10892 May 01 14:16	0°♉	
	10892 May 25 14:01	0°♊	
morning set	10892 Jun 01 17:33	8°♊57'48	
	10892 Jun 18 11:39	0°♋	
superior conj	10892 Jul 11 17:55	29°♋11'35	-0°56'31
minimum elong	10892 Jul 12 05:18	29°♋47'15	0°56'37
	10892 Jul 12 09:22	0°♌	
max. Earth dist.	10892 Jul 13 18:06	1°♌42'35	1.71532 AU
	10892 Aug 05 08:48	0°♍	
asc. node	10892 Aug 05 21:17	0°♍39'01	
evening rise	10892 Aug 20 08:52	18°♍42'15	
	10892 Aug 29 10:57	0°♎	
	10892 Sep 22 16:47	0°♏	
	10892 Oct 17 03:54	0°♐	
	10892 Nov 10 22:52	0°♑	
desc. node	10892 Nov 25 15:53	17°♑32'59	
	10892 Dec 06 05:00	0°♒	
	10893 Jan 01 03:10	0°♓	
	10893 Jan 28 05:20	0°♈	
evening max el	10893 Feb 15 06:28	18°♈34'49	46°16'53
	10893 Feb 27 12:11	0°♉	
asc. node	10893 Mar 18 16:13	14°♉19'50	
greatest brilliancy	10893 Mar 27 04:59	18°♉20'49	-4.8m
retrograde	10893 Apr 06 00:54	20°♉09'28	
evening set	10893 Apr 22 15:52	14°♉47'01	
inferior conj	10893 Apr 26 17:36	12°♉19'08	8°10'24
minimum elong	10893 Apr 26 08:22	12°♉33'22	8°08'40
min. Earth dist.	10893 Apr 26 16:22	12°♉21'02	0.27329 AU
morning rise	10893 Apr 30 00:51	10°♉18'24	
direct	10893 May 17 12:43	4°♉24'50	
greatest brilliancy	10893 May 27 08:11	6°♉14'36	-4.9m
	10893 Jun 29 14:35	0°♊	
morning max el	10893 Jul 07 01:45	7°♊18'01	46°57'14
desc. node	10893 Jul 08 15:07	8°♊52'24	
	10893 Jul 28 10:31	0°♋	
	10893 Aug 23 18:12	0°♌	
	10893 Sep 18 04:54	0°♍	
	10893 Oct 13 05:53	0°♎	
asc. node	10893 Oct 29 11:10	19°♎36'19	
	10893 Nov 07 00:42	0°♏	
	10893 Dec 01 14:42	0°♐	
	10893 Dec 26 01:04	0°♑	
morning set	10894 Jan 04 11:43	11°♑37'49	
	10894 Jan 19 09:04	0°♒	
max. Earth dist.	10894 Feb 08 22:11	25°♒24'01	1.72750 AU
superior conj	10894 Feb 10 22:17	27°♒52'53	0°17'21
minimum elong	10894 Feb 11 02:20	28°♒05'24	0°17'31
	10894 Feb 12 15:21	0°♓	
desc. node	10894 Feb 18 03:05	6°♓47'59	
	10894 Mar 08 19:52	0°♈	
evening rise	10894 Mar 21 16:14	15°♈58'41	
	10894 Apr 01 22:26	0°♉	
	10894 Apr 25 23:43	0°♊	
	10894 May 20 01:35	0°♋	
asc. node	10894 Jun 10 22:20	27°♋05'30	
	10894 Jun 13 06:56	0°♌	
	10894 Jul 07 19:32	0°♍	
	10894 Aug 01 21:14	0°♎	
	10894 Aug 28 00:23	0°♏	
evening max el	10894 Sep 23 01:23	27°♏25'15	46°02'41
	10894 Sep 25 17:22	0°♐	
desc. node	10894 Sep 30 20:32	4°♐47'51	
greatest brilliancy	10894 Nov 01 00:09	26°♐11'39	-4.7m
retrograde	10894 Nov 11 07:59	28°♐07'15	
evening set	10894 Nov 29 14:46	21°♐50'07	
inferior conj	10894 Dec 02 19:55	19°♐49'55	-8°34'01
minimum elong	10894 Dec 02 23:38	19°♐44'05	8°33'15
min. Earth dist.	10894 Dec 02 21:29	19°♐47'27	0.29075 AU
morning rise	10894 Dec 06 08:33	17°♐38'39	
direct	10894 Dec 24 08:09	11°♐34'08	
greatest brilliancy	10895 Jan 03 19:25	13°♐34'28	-4.7m
asc. node	10895 Jan 21 21:14	24°♐07'22	
	10895 Jan 29 03:42	0°♑	
morning max el	10895 Feb 11 14:45	12°♑25'01	45°55'58
	10895 Feb 28 15:44	0°♒	
	10895 Mar 27 09:18	0°♓	
	10895 Apr 21 18:32	0°♈	
desc. node	10895 May 13 16:57	26°♈36'29	
	10895 May 16 11:26	0°♉	
	10895 Jun 09 19:02	0°♊	
	10895 Jul 03 21:49	0°♋	
	10895 Jul 27 23:01	0°♌	
morning set	10895 Aug 15 20:01	23°♌32'01	
	10895 Aug 21 00:39	0°♍	
asc. node	10895 Sep 03 10:24	16°♍41'00	
	10895 Sep 14 03:35	0°♎	
superior conj	10895 Sep 23 08:49	11°♎26'29	0°45'56
minimum elong	10895 Sep 22 23:48	10°♎58'32	0°45'38
max. Earth dist.	10895 Sep 25 17:25	14°♎22'04	1.72605 AU
	10895 Oct 08 08:06	0°♏	
evening rise	10895 Oct 30 10:53	27°♏20'12	
	10895 Nov 01 14:42	0°♐	
	10895 Nov 26 00:23	0°♑	
	10895 Dec 20 14:09	0°♒	
desc. node	10895 Dec 24 03:38	4°♒19'44	
	10896 Jan 14 08:31	0°♓	
	10896 Feb 08 07:59	0°♈	
	10896 Mar 04 15:01	0°♉	
	10896 Mar 30 14:10	0°♊	
asc. node	10896 Apr 15 02:17	17°♊09'28	
	10896 Apr 27 07:59	0°♋	
evening max el	10896 Apr 29 07:21	1°♋59'36	46°49'58
	10896 Jun 02 14:17	0°♌	
greatest brilliancy	10896 Jun 08 17:53	2°♌44'40	-4.9m
retrograde	10896 Jun 18 14:43	4°♌34'24	
	10896 Jul 03 21:30	30°℞♋	
evening set	10896 Jul 04 20:59	29°♋26'51	
inferior conj	10896 Jul 09 07:39	26°♋46'28	6°18'53
minimum elong	10896 Jul 09 18:47	26°♋29'22	6°15'40
min. Earth dist.	10896 Jul 09 13:11	26°♋37'58	0.27082 AU
morning rise	10896 Jul 14 16:41	23°♋34'51	
direct	10896 Jul 30 01:04	19°♋00'03	
desc. node	10896 Aug 05 01:54	19°♋41'55	
greatest brilliancy	10896 Aug 08 23:13	20°♋49'57	-4.8m
	10896 Aug 25 06:46	0°♌	
morning max el	10896 Sep 17 18:53	20°♌29'43	46°19'43
	10896 Sep 27 05:32	0°♍	
	10896 Oct 24 22:39	0°♎	
	10896 Nov 20 02:50	0°♏	
asc. node	10896 Nov 26 00:04	6°♏53'15	

	10896 Dec 15 12:07	0°♐	
	10897 Jan 09 09:30	0°♑	
	10897 Feb 02 23:06	0°♒	
	10897 Feb 27 07:26	0°♓	
morning set	10897 Mar 16 00:11	20°♓41'42	
desc. node	10897 Mar 17 16:22	22°♓46'32	
	10897 Mar 23 11:47	0°♈	
	10897 Apr 16 12:44	0°♉	
max. Earth dist.	10897 Apr 22 01:33	6°♉55'45	1.71595 AU
superior conj	10897 Apr 25 00:02	10°♉36'28	-1°16'44
minimum elong	10897 Apr 24 14:00	10°♉05'01	1°16'50
	10897 May 10 11:08	0°♊	
	10897 Jun 03 08:35	0°♋	
evening rise	10897 Jun 04 04:07	1°♋01'18	
	10897 Jun 27 07:08	0°♌	
asc. node	10897 Jul 08 10:26	13°♌54'15	
	10897 Jul 21 08:54	0°♍	
	10897 Aug 14 15:53	0°♎	
	10897 Sep 08 07:02	0°♏	
	10897 Oct 03 11:36	0°♐	
desc. node	10897 Oct 28 06:55	28°♐28'06	
	10897 Oct 29 15:51	0°♑	
	10897 Nov 26 20:57	0°♒	
evening max el	10897 Dec 03 01:59	6°♒04'34	45°48'48
	10898 Jan 01 21:27	0°♓	
greatest brilliancy	10898 Jan 11 06:50	4°♓22'31	-4.8m
retrograde	10898 Jan 20 22:16	6°♓04'46	
evening set	10898 Feb 05 01:06	1°♓39'50	
	10898 Feb 07 22:26	30°℞♒	
inferior conj	10898 Feb 11 01:56	28°♒03'50	-1°47'58
minimum elong	10898 Feb 11 05:57	27°♒57'35	1°46'22
min. Earth dist.	10898 Feb 11 15:42	27°♒42'23	0.28087 AU
morning rise	10898 Feb 17 10:03	24°♒15'58	
asc. node	10898 Feb 18 07:51	23°♒46'41	
direct	10898 Mar 04 05:41	19°♒55'21	
greatest brilliancy	10898 Mar 15 04:42	22°♒08'21	-4.8m
	10898 Mar 29 03:29	0°♓	
morning max el	10898 Apr 23 08:53	22°♓09'05	46°40'23
	10898 May 01 00:37	0°♈	
	10898 May 28 04:05	0°♉	
desc. node	10898 Jun 10 05:35	15°♉12'43	
	10898 Jun 22 16:32	0°♊	
	10898 Jul 17 12:08	0°♋	
	10898 Aug 11 00:22	0°♌	
	10898 Sep 04 09:54	0°♍	
	10898 Sep 28 18:30	0°♎	
asc. node	10898 Sep 30 23:49	2°♎44'16	
	10898 Oct 23 02:27	0°♏	
morning set	10898 Oct 25 12:30	2°♏59'03	
	10898 Nov 16 09:50	0°♐	
superior conj	10898 Dec 01 08:11	18°♐25'51	1°25'03
minimum elong	10898 Dec 01 11:07	18°♐34'55	1°25'37
max. Earth dist.	10898 Dec 01 18:31	18°♐57'44	1.73213 AU
	10898 Dec 10 17:15	0°♑	
	10899 Jan 04 01:27	0°♒	
evening rise	10899 Jan 07 10:49	4°♒10'24	
desc. node	10899 Jan 20 16:01	20°♒26'09	
	10899 Jan 28 10:36	0°♓	
	10899 Feb 21 20:13	0°♈	
	10899 Mar 18 06:06	0°♉	
	10899 Apr 11 17:42	0°♊	
	10899 May 06 11:03	0°♋	
asc. node	10899 May 13 12:58	8°♋29'12	
	10899 May 31 18:09	0°♌	
	10899 Jun 27 08:05	0°♍	
evening max el	10899 Jul 11 13:51	14°♍53'25	46°41'06
	10899 Jul 27 17:57	0°♎	
greatest brilliancy	10899 Aug 19 19:11	15°♎04'13	-4.8m
retrograde	10899 Aug 30 20:30	17°♎20'33	
desc. node	10899 Sep 02 12:19	17°♎11'56	
evening set	10899 Sep 15 00:33	12°♎50'13	
min. Earth dist.	10899 Sep 20 06:24	9°♎43'49	0.28018 AU
inferior conj	10899 Sep 21 01:51	9°♎13'46	-4°26'40
minimum elong	10899 Sep 20 16:55	9°♎27'35	4°24'13
morning rise	10899 Sep 26 09:51	6°♎02'22	
direct	10899 Oct 12 03:23	1°♎16'41	
greatest brilliancy	10899 Oct 21 18:23	2°♎57'38	-4.8m
	10899 Nov 28 17:30	0°♏	
morning max el	10899 Nov 29 23:13	1°♏10'48	45°44'08
asc. node	10899 Dec 24 12:03	26°♏25'09	
	10899 Dec 27 18:55	0°♐	
	10900 Jan 23 07:01	0°♑	
	10900 Feb 17 16:28	0°♒	
	10900 Mar 14 11:30	0°♓	
	10900 Apr 07 21:36	0°♈	
desc. node	10900 Apr 15 05:48	9°♈05'17	
	10900 May 02 01:29	0°♉	
	10900 May 26 01:08	0°♊	
morning set	10900 May 31 04:38	6°♊27'13	
	10900 Jun 18 22:42	0°♋	
superior conj	10900 Jul 10 05:47	26°♋43'49	-0°59'25
minimum elong	10900 Jul 10 17:21	27°♋20'05	0°59'33
max. Earth dist.	10900 Jul 12 05:18	29°♋12'47	1.71506 AU
	10900 Jul 12 20:21	0°♌	
asc. node	10900 Aug 05 23:04	0°♍10'18	
	10900 Aug 05 19:46	0°♍	
evening rise	10900 Aug 18 22:47	16°♍22'02	
	10900 Aug 29 21:58	0°♎	
	10900 Sep 23 03:55	0°♏	
	10900 Oct 17 15:18	0°♐	
	10900 Nov 11 10:47	0°♑	
desc. node	10900 Nov 25 17:56	17°♑02'28	
	10900 Dec 06 17:48	0°♒	
	10901 Jan 01 17:37	0°♓	
	10901 Jan 28 23:25	0°♈	
evening max el	10901 Feb 13 21:28	16°♈17'42	46°15'32
	10901 Feb 28 19:21	0°♉	
asc. node	10901 Mar 18 18:07	12°♉48'17	
greatest brilliancy	10901 Mar 25 17:28	15°♉56'53	-4.8m
retrograde	10901 Apr 04 14:21	17°♉45'44	
evening set	10901 Apr 21 00:46	12°♉29'52	
inferior conj	10901 Apr 25 06:53	9°♉55'16	7°58'50
minimum elong	10901 Apr 24 21:10	10°♉10'17	7°56'57
min. Earth dist.	10901 Apr 25 05:12	9°♉57'52	0.27340 AU
morning rise	10901 Apr 28 17:34	7°♉49'15	
direct	10901 May 16 02:43	2°♉00'55	
greatest brilliancy	10901 May 25 21:26	3°♉50'01	-4.9m
	10901 Jun 30 16:13	0°♊	
morning max el	10901 Jul 05 15:40	4°♊55'03	46°57'35
desc. node	10901 Jul 08 17:04	8°♊01'25	
	10901 Jul 29 03:42	0°♋	
	10901 Aug 24 08:30	0°♌	
	10901 Sep 18 17:44	0°♍	
	10901 Oct 13 17:50	0°♎	
asc. node	10901 Oct 29 13:10	19°♎07'20	
	10901 Nov 07 12:05	0°♏	
	10901 Dec 02 01:44	0°♐	
	10901 Dec 26 11:56	0°♑	
morning set	10902 Jan 03 04:41	9°♑28'56	
	10902 Jan 19 19:51	0°♒	
max. Earth dist.	10902 Feb 07 14:06	23°♒11'28	1.72778 AU

superior conj	10902 Feb 09 13:34	25°♒38'16	0°20'46
minimum elong	10902 Feb 09 18:19	25°♒52'59	0°20'54
	10902 Feb 13 02:08	0°♓	
desc. node	10902 Feb 18 04:55	6°♓20'12	
	10902 Mar 09 06:43	0°♈	
evening rise	10902 Mar 20 06:18	13°♈39'07	
	10902 Apr 02 09:24	0°♉	
	10902 Apr 26 10:53	0°♊	
	10902 May 20 13:02	0°♋	
asc. node	10902 Jun 11 00:18	26°♋35'15	
	10902 Jun 13 18:47	0°♌	
	10902 Jul 08 08:00	0°♍	
	10902 Aug 02 10:51	0°♎	
	10902 Aug 28 16:27	0°♏	
evening max el	10902 Sep 21 16:33	25°♏11'06	46°03'46
	10902 Sep 26 16:59	0°♐	
desc. node	10902 Sep 30 22:35	3°♐53'24	
greatest brilliancy	10902 Oct 30 15:48	24°♐01'01	-4.8m
retrograde	10902 Nov 09 23:30	25°♐56'36	
evening set	10902 Nov 28 07:32	19°♐38'35	
inferior conj	10902 Dec 01 12:00	17°♐39'18	-8°37'17
minimum elong	10902 Dec 01 14:56	17°♐34'39	8°36'35
min. Earth dist.	10902 Dec 01 12:31	17°♐38'29	0.29075 AU
morning rise	10902 Dec 04 22:24	15°♐31'10	
direct	10902 Dec 23 00:06	9°♐23'53	
greatest brilliancy	10903 Jan 02 10:10	11°♐22'35	-4.7m
asc. node	10903 Jan 21 23:09	23°♐01'30	
	10903 Jan 30 08:13	0°♑	
morning max el	10903 Feb 10 05:08	10°♑09'06	45°54'47
	10903 Mar 01 08:49	0°♒	
	10903 Mar 27 23:15	0°♓	
	10903 Apr 22 07:06	0°♈	
desc. node	10903 May 13 19:00	26°♈06'19	
	10903 May 16 23:16	0°♉	
	10903 Jun 10 06:27	0°♊	
	10903 Jul 04 08:59	0°♋	
	10903 Jul 28 09:58	0°♌	
morning set	10903 Aug 14 10:02	21°♌12'24	
	10903 Aug 21 11:27	0°♍	
asc. node	10903 Sep 03 12:17	16°♍13'24	
	10903 Sep 14 14:17	0°♎	
superior conj	10903 Sep 22 00:13	9°♎12'14	0°42'58
minimum elong	10903 Sep 21 15:34	8°♎45'27	0°42'37
max. Earth dist.	10903 Sep 24 09:14	12°♎09'07	1.72567 AU
	10903 Oct 08 18:45	0°♏	
evening rise	10903 Oct 29 03:30	25°♏10'27	
	10903 Nov 02 01:24	0°♐	
	10903 Nov 26 11:13	0°♑	
	10903 Dec 21 01:17	0°♒	
desc. node	10903 Dec 24 05:32	3°♒51'31	
	10904 Jan 14 20:09	0°♓	
	10904 Feb 08 20:23	0°♈	
	10904 Mar 05 04:40	0°♉	
	10904 Mar 31 06:11	0°♊	
asc. node	10904 Apr 15 04:24	16°♊25'15	
evening max el	10904 Apr 27 19:35	29°♊33'16	46°49'26
	10904 Apr 28 06:15	0°♋	
	10904 Jun 06 08:31	0°♌	
greatest brilliancy	10904 Jun 07 08:38	0°♌22'21	-4.9m
retrograde	10904 Jun 17 03:26	2°♌10'45	
	10904 Jun 27 12:46	30°℞♋	
evening set	10904 Jul 03 13:37	26°♋58'14	
inferior conj	10904 Jul 07 20:46	24°♋23'07	6°36'04
minimum elong	10904 Jul 08 07:57	24°♋05'57	6°32'58
min. Earth dist.	10904 Jul 08 03:09	24°♋13'19	0.27082 AU
morning rise	10904 Jul 13 02:17	21°♋16'12	
direct	10904 Jul 28 13:24	16°♋36'22	
desc. node	10904 Aug 05 03:50	17°♋41'53	
greatest brilliancy	10904 Aug 07 12:52	18°♋27'09	-4.8m
	10904 Aug 26 23:38	0°♌	
morning max el	10904 Sep 16 08:13	18°♌08'37	46°21'20
	10904 Sep 28 00:58	0°♍	
	10904 Oct 25 13:28	0°♎	
	10904 Nov 20 15:41	0°♏	
asc. node	10904 Nov 26 01:59	6°♏22'04	
	10904 Dec 15 23:55	0°♐	
	10905 Jan 09 20:42	0°♑	
	10905 Feb 03 09:58	0°♒	
	10905 Feb 27 18:10	0°♓	
morning set	10905 Mar 14 13:30	18°♓20'43	
desc. node	10905 Mar 17 18:16	22°♓19'10	
	10905 Mar 23 22:29	0°♈	
	10905 Apr 16 23:26	0°♉	
max. Earth dist.	10905 Apr 20 12:07	4°♉25'01	1.71629 AU
superior conj	10905 Apr 23 12:02	8°♉10'15	-1°14'47
minimum elong	10905 Apr 23 01:32	7°♉37'20	1°14'50
	10905 May 10 21:50	0°♊	
evening rise	10905 Jun 02 15:18	28°♊32'11	
	10905 Jun 03 19:18	0°♋	
	10905 Jun 27 17:56	0°♌	
asc. node	10905 Jul 08 12:15	13°♌26'05	
	10905 Jul 21 19:51	0°♍	
	10905 Aug 15 03:08	0°♎	
	10905 Sep 08 18:48	0°♏	
	10905 Oct 04 00:21	0°♐	
desc. node	10905 Oct 28 08:57	27°♐52'55	
	10905 Oct 30 06:41	0°♑	
	10905 Nov 27 17:21	0°♒	
evening max el	10905 Dec 01 16:40	3°♒51'27	45°48'38
	10906 Jan 04 16:45	0°♓	
greatest brilliancy	10906 Jan 09 21:05	2°♓08'13	-4.8m
retrograde	10906 Jan 19 13:19	3°♓51'05	
	10906 Feb 02 14:04	30°℞♒	
evening set	10906 Feb 03 17:45	29°♒23'00	
inferior conj	10906 Feb 09 16:57	25°♒49'15	-2°09'00
minimum elong	10906 Feb 09 21:42	25°♒41'51	2°07'11
min. Earth dist.	10906 Feb 10 07:06	25°♒27'13	0.28135 AU
morning rise	10906 Feb 16 00:59	22°♒01'46	
asc. node	10906 Feb 18 09:48	20°♒48'16	
direct	10906 Mar 02 21:09	17°♒40'03	
greatest brilliancy	10906 Mar 13 20:52	19°♒54'02	-4.8m
	10906 Mar 30 20:19	0°♓	
morning max el	10906 Apr 22 00:49	19°♓54'25	46°38'58
	10906 May 01 19:46	0°♈	
	10906 May 28 18:55	0°♉	
desc. node	10906 Jun 10 07:25	14°♉37'35	
	10906 Jun 23 05:33	0°♊	
	10906 Jul 18 00:09	0°♋	
	10906 Aug 11 11:45	0°♌	
	10906 Sep 04 20:52	0°♍	
	10906 Sep 29 05:11	0°♎	
asc. node	10906 Oct 01 01:47	2°♎17'31	
	10906 Oct 23 12:56	0°♏	
morning set	10906 Oct 24 05:05	0°♏49'52	
	10906 Nov 16 20:13	0°♐	
superior conj	10906 Nov 30 01:34	16°♐19'20	1°25'30
minimum elong	10906 Nov 30 03:48	16°♐26'15	1°26'04
max. Earth dist.	10906 Nov 30 15:01	17°♐00'50	1.73211 AU
	10906 Dec 11 03:38	0°♑	
	10907 Jan 04 11:56	0°♒	
evening rise	10907 Jan 06 03:09	2°♒00'41	

desc. node	10907 Jan 20 17:49	19°♒59'08	
	10907 Jan 28 21:16	0°♓	
	10907 Feb 22 07:10	0°♈	
	10907 Mar 18 17:27	0°♉	
	10907 Apr 12 05:37	0°♊	
	10907 May 06 23:53	0°♋	
asc. node	10907 May 13 14:55	7°♋55'45	
	10907 Jun 01 08:36	0°♌	
	10907 Jun 28 02:11	0°♍	
evening max el	10907 Jul 10 05:38	12°♍38'10	46°42'22
	10907 Jul 29 02:36	0°♎	
greatest brilliancy	10907 Aug 18 10:12	12°♎48'13	-4.8m
retrograde	10907 Aug 29 12:29	15°♎05'04	
desc. node	10907 Sep 02 14:20	14°♎44'43	
evening set	10907 Sep 13 13:48	10°♎37'30	
min. Earth dist.	10907 Sep 18 21:07	7°♎29'03	0.27961 AU
inferior conj	10907 Sep 19 16:38	6°♎58'55	-4°07'50
minimum elong	10907 Sep 19 08:08	7°♎12'03	4°05'28
morning rise	10907 Sep 25 03:11	3°♎44'24	
	10907 Oct 03 20:18	30°℞♍	
direct	10907 Oct 10 18:11	29°♍02'43	
	10907 Oct 17 22:00	0°♎	
greatest brilliancy	10907 Oct 20 08:04	0°♎43'10	-4.8m
morning max el	10907 Nov 28 14:48	29°♎00'12	45°44'34
	10907 Nov 29 15:41	0°♏	
asc. node	10907 Dec 24 13:56	25°♏47'23	
	10907 Dec 28 10:12	0°♐	
	10908 Jan 23 19:56	0°♑	
	10908 Feb 18 04:19	0°♒	
	10908 Mar 13 22:47	0°♓	
	10908 Apr 07 08:34	0°♈	
desc. node	10908 Apr 14 07:47	8°♈37'38	
	10908 May 01 12:16	0°♉	
	10908 May 25 11:49	0°♊	
morning set	10908 May 28 15:39	3°♊57'45	
	10908 Jun 18 09:20	0°♋	
superior conj	10908 Jul 07 17:37	24°♋17'06	-1°02'13
minimum elong	10908 Jul 08 05:17	24°♋53'41	1°02'23
max. Earth dist.	10908 Jul 09 16:40	26°♋44'38	1.71479 AU
	10908 Jul 12 06:58	0°♌	
asc. node	10908 Aug 05 01:01	29°♌43'17	
	10908 Aug 05 06:22	0°♍	
evening rise	10908 Aug 16 12:40	14°♍02'53	
	10908 Aug 29 08:34	0°♎	
	10908 Sep 22 14:36	0°♏	
	10908 Oct 17 02:15	0°♐	
	10908 Nov 10 22:15	0°♑	
desc. node	10908 Nov 24 19:50	16°♑32'50	
	10908 Dec 06 06:13	0°♒	
	10909 Jan 01 07:48	0°♓	
	10909 Jan 28 17:33	0°♈	
evening max el	10909 Feb 11 12:13	14°♈01'00	46°14'04
	10909 Mar 01 04:41	0°♉	
asc. node	10909 Mar 17 20:15	11°♉14'42	
greatest brilliancy	10909 Mar 23 06:41	13°♉34'56	-4.8m
retrograde	10909 Apr 02 03:15	15°♉23'12	
evening set	10909 Apr 18 09:50	10°♉13'56	
inferior conj	10909 Apr 22 20:16	7°♉32'50	7°46'31
minimum elong	10909 Apr 22 10:08	7°♉48'32	7°44'27
min. Earth dist.	10909 Apr 22 18:34	7°♉35'29	0.27350 AU
morning rise	10909 Apr 26 10:24	5°♉21'25	
	10909 May 09 11:33	30°℞♈	
direct	10909 May 13 16:23	29°♈38'22	
	10909 May 17 23:01	0°♉	
greatest brilliancy	10909 May 23 11:24	1°♉27'23	-4.9m
	10909 Jun 30 16:10	0°♊	
morning max el	10909 Jul 03 04:36	2°♊30'41	46°57'51
desc. node	10909 Jul 07 19:02	7°♊12'28	
	10909 Jul 28 20:11	0°♋	
	10909 Aug 23 22:17	0°♌	
	10909 Sep 18 06:08	0°♍	
	10909 Oct 13 05:22	0°♎	
asc. node	10909 Oct 28 15:05	18°♎39'15	
	10909 Nov 06 23:04	0°♏	
	10909 Dec 01 12:23	0°♐	
	10909 Dec 25 22:24	0°♑	
morning set	10909 Dec 31 21:59	7°♑22'12	
	10910 Jan 19 06:17	0°♒	
max. Earth dist.	10910 Feb 05 05:39	20°♒58'48	1.72814 AU
superior conj	10910 Feb 07 05:07	23°♒25'35	0°24'06
minimum elong	10910 Feb 07 10:34	23°♒42'25	0°24'15
	10910 Feb 12 12:37	0°♓	
desc. node	10910 Feb 17 06:54	5°♓53'50	
	10910 Mar 08 17:18	0°♈	
evening rise	10910 Mar 17 20:23	11°♈20'31	
	10910 Apr 01 20:09	0°♉	
	10910 Apr 25 21:51	0°♊	
	10910 May 20 00:16	0°♋	
asc. node	10910 Jun 10 02:09	26°♋05'17	
	10910 Jun 13 06:25	0°♌	
	10910 Jul 07 20:18	0°♍	
	10910 Aug 02 00:22	0°♎	
	10910 Aug 28 08:36	0°♏	
evening max el	10910 Sep 19 07:08	22°♏56'06	46°04'57
	10910 Sep 26 17:27	0°♐	
desc. node	10910 Sep 30 00:40	2°♐58'38	
greatest brilliancy	10910 Oct 28 07:45	21°♐51'36	-4.8m
retrograde	10910 Nov 07 15:08	23°♐47'23	
evening set	10910 Nov 26 00:08	17°♐28'52	
inferior conj	10910 Nov 29 04:16	15°♐30'07	-8°39'50
minimum elong	10910 Nov 29 06:25	15°♐26'43	8°39'12
min. Earth dist.	10910 Nov 29 03:58	15°♐30'34	0.29071 AU
morning rise	10910 Dec 02 12:42	13°♐24'49	
direct	10910 Dec 20 15:45	7°♐14'59	
greatest brilliancy	10910 Dec 31 01:33	9°♐12'49	-4.7m
asc. node	10911 Jan 21 01:09	21°♐58'35	
	10911 Jan 30 10:31	0°♑	
morning max el	10911 Feb 07 19:27	7°♑54'04	45°53'38
	10911 Mar 01 01:15	0°♒	
	10911 Mar 27 12:51	0°♓	
	10911 Apr 21 19:28	0°♈	
desc. node	10911 May 12 20:51	25°♈35'49	
	10911 May 16 10:59	0°♉	
	10911 Jun 09 17:48	0°♊	
	10911 Jul 03 20:03	0°♋	
	10911 Jul 27 20:49	0°♌	
morning set	10911 Aug 11 23:47	18°♌52'08	
	10911 Aug 20 22:09	0°♍	
asc. node	10911 Sep 02 14:15	15°♍46'18	
	10911 Sep 14 00:54	0°♎	
superior conj	10911 Sep 19 15:32	6°♎57'59	0°39'54
minimum elong	10911 Sep 19 07:19	6°♎32'28	0°39'32
max. Earth dist.	10911 Sep 21 23:19	9°♎51'04	1.72531 AU
	10911 Oct 08 05:21	0°♏	
evening rise	10911 Oct 26 20:17	23°♏01'24	
	10911 Nov 01 12:02	0°♐	
	10911 Nov 25 22:00	0°♑	
	10911 Dec 20 12:20	0°♒	
desc. node	10911 Dec 23 07:26	3°♒23'37	
	10912 Jan 14 07:41	0°♓	
	10912 Feb 08 08:43	0°♈	

	10912 Mar 04 18:21	0°♉	
	10912 Mar 30 22:29	0°♊	
asc. node	10912 Apr 14 06:19	15°♊39'41	
evening max el	10912 Apr 25 07:54	27°♊07'00	46°48'41
	10912 Apr 28 05:37	0°♋	
greatest brilliancy	10912 Jun 04 22:46	27°♋58'23	-4.9m
retrograde	10912 Jun 14 16:23	29°♋46'08	
evening set	10912 Jul 01 06:05	24°♋28'13	
inferior conj	10912 Jul 05 09:40	21°♋58'33	6°52'40
minimum elong	10912 Jul 05 20:49	21°♋41'27	6°49'40
min. Earth dist.	10912 Jul 05 16:43	21°♋47'44	0.27085 AU
morning rise	10912 Jul 10 11:30	18°♋56'54	
direct	10912 Jul 26 01:42	14°♋11'18	
desc. node	10912 Aug 04 05:54	15°♋45'43	
greatest brilliancy	10912 Aug 05 02:10	16°♋03'06	-4.9m
	10912 Aug 27 12:30	0°♌	
morning max el	10912 Sep 13 22:16	15°♌48'47	46°23'03
	10912 Sep 27 20:01	0°♍	
	10912 Oct 25 04:13	0°♎	
	10912 Nov 20 04:32	0°♏	
asc. node	10912 Nov 25 03:48	5°♏50'23	
	10912 Dec 15 11:45	0°♐	
	10913 Jan 09 07:58	0°♑	
	10913 Feb 02 20:54	0°♒	
	10913 Feb 27 04:57	0°♓	
morning set	10913 Mar 12 03:25	16°♓01'34	
desc. node	10913 Mar 16 20:15	21°♓51'54	
	10913 Mar 23 09:13	0°♈	
	10913 Apr 16 10:12	0°♉	
max. Earth dist.	10913 Apr 18 01:22	2°♉02'32	1.71668 AU
superior conj	10913 Apr 21 00:16	5°♉44'29	-1°12'43
minimum elong	10913 Apr 20 13:23	5°♉10'24	1°12'42
	10913 May 10 08:40	0°♊	
evening rise	10913 May 31 02:27	26°♊02'19	
	10913 Jun 03 06:14	0°♋	
	10913 Jun 27 05:00	0°♌	
asc. node	10913 Jul 07 14:12	12°♌57'27	
	10913 Jul 21 07:06	0°♍	
	10913 Aug 14 14:42	0°♎	
	10913 Sep 08 06:54	0°♏	
	10913 Oct 03 13:30	0°♐	
desc. node	10913 Oct 27 10:51	27°♐16'12	
	10913 Oct 29 22:02	0°♑	
	10913 Nov 27 14:48	0°♒	
evening max el	10913 Nov 29 08:14	1°♒39'48	45°48'35
greatest brilliancy	10914 Jan 07 11:16	29°♒53'32	-4.8m
	10914 Jan 07 19:00	0°♓	
retrograde	10914 Jan 17 04:35	1°♓36'58	
	10914 Jan 26 04:04	30°R♒	
evening set	10914 Feb 01 10:39	27°♒05'53	
inferior conj	10914 Feb 07 08:02	23°♒34'24	-2°29'49
minimum elong	10914 Feb 07 13:30	23°♒25'53	2°27'48
min. Earth dist.	10914 Feb 07 22:18	23°♒12'11	0.28177 AU
morning rise	10914 Feb 13 15:46	19°♒47'33	
asc. node	10914 Feb 17 11:53	17°♒53'25	
direct	10914 Feb 28 13:07	15°♒24'44	
greatest brilliancy	10914 Mar 11 12:26	17°♒38'50	-4.8m
	10914 Mar 31 08:56	0°♓	
morning max el	10914 Apr 19 16:57	17°♓40'06	46°37'31
	10914 May 01 14:30	0°♈	
	10914 May 28 09:41	0°♉	
desc. node	10914 Jun 09 09:23	14°♉02'32	
	10914 Jun 22 18:40	0°♊	
	10914 Jul 17 12:24	0°♋	
	10914 Aug 10 23:28	0°♌	
	10914 Sep 04 08:12	0°♍	
	10914 Sep 28 16:13	0°♎	
asc. node	10914 Sep 30 03:41	1°♎49'20	
morning set	10914 Oct 21 21:18	28°♎38'19	
	10914 Oct 22 23:46	0°♏	
	10914 Nov 16 06:56	0°♐	
superior conj	10914 Nov 27 18:40	14°♐10'51	1°25'50
minimum elong	10914 Nov 27 20:10	14°♐15'30	1°26'24
max. Earth dist.	10914 Nov 28 12:14	15°♐05'04	1.73205 AU
	10914 Dec 10 14:22	0°♑	
evening rise	10915 Jan 03 19:22	29°♑49'30	
	10915 Jan 03 22:47	0°♒	
desc. node	10915 Jan 19 19:50	19°♒31'41	
	10915 Jan 28 08:18	0°♓	
	10915 Feb 21 18:28	0°♈	
	10915 Mar 18 05:06	0°♉	
	10915 Apr 11 17:50	0°♊	
	10915 May 06 13:03	0°♋	
asc. node	10915 May 12 16:50	7°♋21'17	
	10915 May 31 23:30	0°♌	
	10915 Jun 27 21:08	0°♍	
evening max el	10915 Jul 07 21:34	10°♍21'58	46°43'13
	10915 Jul 29 15:16	0°♎	
greatest brilliancy	10915 Aug 16 01:25	10°♎30'18	-4.8m
retrograde	10915 Aug 27 03:45	12°♎46'44	
desc. node	10915 Sep 01 16:24	12°♎09'22	
evening set	10915 Sep 11 02:53	8°♎22'00	
min. Earth dist.	10915 Sep 16 11:46	5°♎11'11	0.27907 AU
inferior conj	10915 Sep 17 07:03	4°♎41'25	-3°48'10
minimum elong	10915 Sep 16 23:05	4°♎53'43	3°45'55
morning rise	10915 Sep 22 20:03	1°♎23'38	
	10915 Sep 25 12:28	30°R♍	
direct	10915 Oct 08 08:47	26°♍46'09	
greatest brilliancy	10915 Oct 17 21:30	28°♍25'53	-4.8m
	10915 Oct 21 21:28	0°♎	
morning max el	10915 Nov 26 05:28	26°♎45'33	45°45'06
	10915 Nov 29 13:41	0°♏	
asc. node	10915 Dec 23 16:01	25°♏09'00	
	10915 Dec 28 01:47	0°♐	
	10916 Jan 23 09:14	0°♑	
	10916 Feb 17 16:32	0°♒	
	10916 Mar 13 10:27	0°♓	
	10916 Apr 06 19:54	0°♈	
desc. node	10916 Apr 13 09:35	8°♈08'15	
	10916 Apr 30 23:24	0°♉	
	10916 May 24 22:49	0°♊	
morning set	10916 May 26 03:02	1°♊28'29	
	10916 Jun 17 20:16	0°♋	
superior conj	10916 Jul 05 05:48	21°♋50'33	-1°04'52
minimum elong	10916 Jul 05 17:27	22°♋27'04	1°05'03
max. Earth dist.	10916 Jul 07 04:26	24°♋16'48	1.71454 AU
	10916 Jul 11 17:53	0°♌	
asc. node	10916 Aug 04 02:59	29°♌15'22	
	10916 Aug 04 17:17	0°♍	
evening rise	10916 Aug 14 02:33	11°♍42'29	
	10916 Aug 28 19:33	0°♎	
	10916 Sep 22 01:45	0°♏	
	10916 Oct 16 13:43	0°♐	
	10916 Nov 10 10:16	0°♑	
desc. node	10916 Nov 23 21:46	16°♑01'46	
	10916 Dec 05 19:13	0°♒	
	10916 Dec 31 22:40	0°♓	
	10917 Jan 28 12:42	0°♈	
evening max el	10917 Feb 09 02:02	11°♈40'43	46°12'39
	10917 Mar 01 18:02	0°♉	
asc. node	10917 Mar 16 22:12	9°♉36'00	

greatest brilliancy	10917 Mar 20 20:20	11°♉12'12	-4.8m
retrograde	10917 Mar 30 15:51	12°♉59'40	
evening set	10917 Apr 15 19:02	7°♉56'40	
inferior conj	10917 Apr 20 09:42	5°♉09'27	7°33'23
minimum elong	10917 Apr 19 23:14	5°♉25'40	7°31'09
min. Earth dist.	10917 Apr 20 08:20	5°♉11'33	0.27357 AU
morning rise	10917 Apr 24 03:20	2°♉52'35	
	10917 Apr 29 13:00	30°♑℞	
direct	10917 May 11 05:33	27°♈14'41	
greatest brilliancy	10917 May 21 02:01	29°♈04'29	-4.9m
	10917 May 23 10:30	0°♉	
morning max el	10917 Jun 30 17:02	0°♊04'07	46°58'19
	10917 Jun 30 15:24	0°♊	
desc. node	10917 Jul 06 21:04	6°♊23'40	
	10917 Jul 28 12:36	0°♋	
	10917 Aug 23 12:12	0°♌	
	10917 Sep 17 18:44	0°♍	
	10917 Oct 12 17:12	0°♎	
asc. node	10917 Oct 27 16:53	18°♎09'43	
	10917 Nov 06 10:25	0°♏	
	10917 Nov 30 23:27	0°♐	
	10917 Dec 25 09:19	0°♑	
morning set	10917 Dec 29 14:56	5°♑12'59	
	10918 Jan 18 17:07	0°♒	
max. Earth dist.	10918 Feb 02 21:52	18°♒47'00	1.72847 AU
superior conj	10918 Feb 04 20:25	21°♒10'55	0°27'26
minimum elong	10918 Feb 05 02:30	21°♒29'45	0°27'34
	10918 Feb 11 23:28	0°♓	
desc. node	10918 Feb 16 08:47	5°♓25'57	
	10918 Mar 08 04:15	0°♈	
evening rise	10918 Mar 15 10:22	9°♈00'34	
	10918 Apr 01 07:17	0°♉	
	10918 Apr 25 09:11	0°♊	
	10918 May 19 11:52	0°♋	
asc. node	10918 Jun 09 04:10	25°♋34'48	
	10918 Jun 12 18:24	0°♌	
	10918 Jul 07 08:56	0°♍	
	10918 Aug 01 14:14	0°♎	
	10918 Aug 28 01:16	0°♏	
evening max el	10918 Sep 16 21:16	20°♏39'18	46°06'02
	10918 Sep 26 19:35	0°♐	
desc. node	10918 Sep 29 02:31	2°♐01'18	
greatest brilliancy	10918 Oct 25 22:58	19°♐40'13	-4.8m
retrograde	10918 Nov 05 06:51	21°♐37'03	
evening set	10918 Nov 23 16:15	15°♐18'14	
inferior conj	10918 Nov 26 20:25	13°♐19'36	-8°41'32
minimum elong	10918 Nov 26 21:47	13°♐17'27	8°40'56
min. Earth dist.	10918 Nov 26 19:19	13°♐21'20	0.29072 AU
morning rise	10918 Nov 30 03:20	11°♐16'42	
direct	10918 Dec 18 07:13	5°♐04'31	
greatest brilliancy	10918 Dec 28 17:20	7°♐02'14	-4.7m
asc. node	10919 Jan 20 03:10	20°♐55'58	
	10919 Jan 30 11:56	0°♑	
morning max el	10919 Feb 05 10:19	5°♑39'10	45°52'34
	10919 Feb 28 17:47	0°♒	
	10919 Mar 27 02:40	0°♓	
	10919 Apr 21 08:04	0°♈	
desc. node	10919 May 11 22:44	25°♈04'43	
	10919 May 15 22:56	0°♉	
	10919 Jun 09 05:22	0°♊	
	10919 Jul 03 07:19	0°♋	
	10919 Jul 27 07:53	0°♌	
morning set	10919 Aug 09 13:42	16°♌31'43	
	10919 Aug 20 09:02	0°♍	
asc. node	10919 Sep 01 16:05	15°♍18'20	
	10919 Sep 13 11:40	0°♎	
superior conj	10919 Sep 17 07:06	4°♎43'57	0°36'47
minimum elong	10919 Sep 16 23:20	4°♎19'52	0°36'26
max. Earth dist.	10919 Sep 19 14:01	7°♎34'27	1.72494 AU
	10919 Oct 07 16:05	0°♏	
evening rise	10919 Oct 24 13:22	20°♏52'50	
	10919 Oct 31 22:49	0°♐	
	10919 Nov 25 08:58	0°♑	
	10919 Dec 19 23:38	0°♒	
desc. node	10919 Dec 22 09:27	2°♒55'18	
	10920 Jan 13 19:32	0°♓	
	10920 Feb 07 21:25	0°♈	
	10920 Mar 04 08:26	0°♉	
	10920 Mar 30 15:20	0°♊	
asc. node	10920 Apr 13 08:15	14°♊52'52	
evening max el	10920 Apr 22 20:55	24°♊42'01	46°48'03
	10920 Apr 28 06:21	0°♋	
greatest brilliancy	10920 Jun 02 12:08	25°♋32'59	-4.9m
retrograde	10920 Jun 12 05:41	27°♋20'49	
evening set	10920 Jun 28 22:32	21°♋57'17	
inferior conj	10920 Jul 02 22:27	19°♋33'08	7°08'32
minimum elong	10920 Jul 03 09:30	19°♋16'12	7°05'40
min. Earth dist.	10920 Jul 03 05:49	19°♋21'52	0.27089 AU
morning rise	10920 Jul 07 20:26	16°♋37'10	
direct	10920 Jul 23 14:33	11°♋45'31	
greatest brilliancy	10920 Aug 02 14:53	13°♋37'48	-4.9m
desc. node	10920 Aug 03 07:52	13°♋53'26	
	10920 Aug 27 22:13	0°♌	
morning max el	10920 Sep 11 13:03	13°♌30'28	46°24'53
	10920 Sep 27 14:35	0°♍	
	10920 Oct 24 18:46	0°♎	
	10920 Nov 19 17:17	0°♏	
asc. node	10920 Nov 24 05:51	5°♏19'32	
	10920 Dec 14 23:33	0°♐	
	10921 Jan 08 19:14	0°♑	
	10921 Feb 02 07:55	0°♒	
	10921 Feb 26 15:51	0°♓	
morning set	10921 Mar 09 17:10	13°♓41'38	
desc. node	10921 Mar 15 22:03	21°♓23'45	
	10921 Mar 22 20:05	0°♈	
max. Earth dist.	10921 Apr 15 13:43	29°♈37'00	1.71702 AU
	10921 Apr 15 21:04	0°♉	
superior conj	10921 Apr 18 12:10	3°♉17'26	-1°10'29
minimum elong	10921 Apr 18 01:00	2°♉42'27	1°10'25
	10921 May 09 19:34	0°♊	
evening rise	10921 May 28 13:22	23°♊31'37	
	10921 Jun 02 17:12	0°♋	
	10921 Jun 26 16:05	0°♌	
asc. node	10921 Jul 06 16:11	12°♌28'53	
	10921 Jul 20 18:23	0°♍	
	10921 Aug 14 02:17	0°♎	
	10921 Sep 07 19:01	0°♏	
	10921 Oct 03 02:38	0°♐	
desc. node	10921 Oct 26 12:52	26°♐39'56	
	10921 Oct 29 13:28	0°♑	
evening max el	10921 Nov 27 00:12	29°♑29'42	45°48'28
	10921 Nov 27 12:53	0°♒	
greatest brilliancy	10922 Jan 05 01:37	27°♒39'48	-4.8m
retrograde	10922 Jan 14 19:38	29°♒23'22	
evening set	10922 Jan 30 03:48	24°♒49'21	
inferior conj	10922 Feb 04 23:13	21°♒20'06	-2°50'18
minimum elong	10922 Feb 05 05:21	21°♒10'32	2°48'04
min. Earth dist.	10922 Feb 05 13:32	20°♒57'46	0.28224 AU
morning rise	10922 Feb 11 06:25	17°♒33'56	
asc. node	10922 Feb 16 13:48	15°♒03'29	
direct	10922 Feb 26 05:24	13°♒10'05	
greatest brilliancy	10922 Mar 09 03:54	15°♒23'42	-4.8m

	10922 Mar 31 18:17	0°♓	
morning max el	10922 Apr 17 08:30	15°♓24'17	46°35'53
	10922 May 01 08:48	0°♈	
	10922 May 28 00:19	0°♉	
desc. node	10922 Jun 08 11:26	13°♉27'52	
	10922 Jun 22 07:40	0°♊	
	10922 Jul 17 00:30	0°♋	
	10922 Aug 10 11:01	0°♌	
	10922 Sep 03 19:22	0°♍	
	10922 Sep 28 03:06	0°♎	
asc. node	10922 Sep 29 05:30	1°♎21'27	
morning set	10922 Oct 19 13:43	26°♎27'57	
	10922 Oct 22 10:25	0°♏	
	10922 Nov 15 17:28	0°♐	
superior conj	10922 Nov 25 12:08	12°♐04'13	1°26'02
minimum elong	10922 Nov 25 12:54	12°♐06'34	1°26'36
max. Earth dist.	10922 Nov 26 08:57	13°♐08'25	1.73193 AU
	10922 Dec 10 00:53	0°♑	
evening rise	10923 Jan 01 11:57	27°♑40'14	
	10923 Jan 03 09:23	0°♒	
desc. node	10923 Jan 18 21:44	19°♒04'36	
	10923 Jan 27 19:07	0°♓	
	10923 Feb 21 05:34	0°♈	
	10923 Mar 17 16:39	0°♉	
	10923 Apr 11 06:01	0°♊	
	10923 May 06 02:14	0°♋	
asc. node	10923 May 11 18:51	6°♋47'10	
	10923 May 31 14:32	0°♌	
	10923 Jun 27 16:31	0°♍	
evening max el	10923 Jul 05 12:49	8°♍04'19	46°44'10
	10923 Jul 30 07:56	0°♎	
greatest brilliancy	10923 Aug 13 17:15	8°♎13'38	-4.8m
retrograde	10923 Aug 24 18:35	10°♎28'51	
desc. node	10923 Aug 31 18:16	9°♎29'23	
evening set	10923 Sep 08 16:12	6°♎06'53	
min. Earth dist.	10923 Sep 14 02:48	2°♎53'29	0.27849 AU
inferior conj	10923 Sep 14 21:29	2°♎24'36	-3°28'05
minimum elong	10923 Sep 14 14:05	2°♎36'03	3°25'59
	10923 Sep 18 20:57	30°℞♍	
morning rise	10923 Sep 20 12:46	29°♍03'34	
direct	10923 Oct 05 23:03	24°♍30'19	
greatest brilliancy	10923 Oct 15 11:24	26°♍09'39	-4.8m
	10923 Oct 23 23:34	0°♎	
morning max el	10923 Nov 23 19:19	24°♎29'46	45°45'48
	10923 Nov 29 10:29	0°♏	
asc. node	10923 Dec 22 17:55	24°♏31'31	
	10923 Dec 27 16:45	0°♐	
	10924 Jan 22 22:03	0°♑	
	10924 Feb 17 04:20	0°♒	
	10924 Mar 12 21:43	0°♓	
	10924 Apr 06 06:54	0°♈	
desc. node	10924 Apr 12 11:31	7°♈40'16	
	10924 Apr 30 10:15	0°♉	
morning set	10924 May 23 13:58	28°♉58'24	
	10924 May 24 09:36	0°♊	
	10924 Jun 17 07:02	0°♋	
superior conj	10924 Jul 02 17:31	19°♋23'05	-1°07'25
minimum elong	10924 Jul 03 05:02	19°♋59'14	1°07'38
max. Earth dist.	10924 Jul 04 12:16	21°♋37'14	1.71427 AU
	10924 Jul 11 04:36	0°♌	
asc. node	10924 Aug 03 04:46	28°♌47'34	
	10924 Aug 04 03:58	0°♍	
evening rise	10924 Aug 11 15:52	9°♍21'04	
	10924 Aug 28 06:16	0°♎	
	10924 Sep 21 12:36	0°♏	
	10924 Oct 16 00:53	0°♐	
	10924 Nov 09 21:59	0°♑	
desc. node	10924 Nov 22 23:48	15°♑31'57	
	10924 Dec 05 07:54	0°♒	
	10924 Dec 31 13:14	0°♓	
	10925 Jan 28 07:49	0°♈	
evening max el	10925 Feb 06 15:07	9°♈20'21	46°11'20
	10925 Mar 02 10:53	0°♉	
asc. node	10925 Mar 16 00:06	7°♉55'19	
greatest brilliancy	10925 Mar 18 09:54	8°♉51'14	-4.8m
retrograde	10925 Mar 28 04:37	10°♉38'25	
evening set	10925 Apr 13 04:28	5°♉40'58	
inferior conj	10925 Apr 17 23:18	2°♉48'01	7°19'19
minimum elong	10925 Apr 17 12:35	3°♉04'38	7°16'58
min. Earth dist.	10925 Apr 17 22:20	2°♉49'31	0.27374 AU
morning rise	10925 Apr 21 20:31	0°♉25'46	
	10925 Apr 22 14:10	30°℞♈	
direct	10925 May 08 18:46	24°♈52'36	
greatest brilliancy	10925 May 18 17:15	26°♈43'51	-4.9m
	10925 May 25 19:31	0°♉	
morning max el	10925 Jun 28 05:56	27°♉39'29	46°58'32
	10925 Jun 30 13:22	0°♊	
desc. node	10925 Jul 05 23:00	5°♊36'07	
	10925 Jul 28 04:31	0°♋	
	10925 Aug 23 01:46	0°♌	
	10925 Sep 17 07:01	0°♍	
	10925 Oct 12 04:41	0°♎	
asc. node	10925 Oct 26 18:54	17°♎41'54	
	10925 Nov 05 21:24	0°♏	
	10925 Nov 30 10:07	0°♐	
	10925 Dec 24 19:49	0°♑	
morning set	10925 Dec 27 08:00	3°♑05'23	
	10926 Jan 18 03:33	0°♒	
max. Earth dist.	10926 Jan 31 15:49	16°♒41'50	1.72876 AU
superior conj	10926 Feb 02 12:06	18°♒58'45	0°30'41
minimum elong	10926 Feb 02 18:48	19°♒19'27	0°30'48
	10926 Feb 11 09:54	0°♓	
desc. node	10926 Feb 15 10:36	4°♓59'14	
	10926 Mar 07 14:47	0°♈	
evening rise	10926 Mar 13 00:54	6°♈43'53	
	10926 Mar 31 17:58	0°♉	
	10926 Apr 24 20:05	0°♊	
	10926 May 18 23:05	0°♋	
asc. node	10926 Jun 08 06:06	25°♋05'09	
	10926 Jun 12 06:04	0°♌	
	10926 Jul 06 21:20	0°♍	
	10926 Aug 01 04:00	0°♎	
	10926 Aug 27 18:01	0°♏	
evening max el	10926 Sep 14 11:43	18°♏23'55	46°07'24
	10926 Sep 26 22:59	0°♐	
desc. node	10926 Sep 28 04:35	1°♐03'51	
greatest brilliancy	10926 Oct 23 13:34	17°♐28'57	-4.8m
retrograde	10926 Nov 02 23:02	19°♐27'38	
evening set	10926 Nov 21 07:58	13°♐08'51	
inferior conj	10926 Nov 24 12:31	11°♐09'54	-8°42'29
minimum elong	10926 Nov 24 13:05	11°♐08'59	8°41'56
min. Earth dist.	10926 Nov 24 10:13	11°♐13'29	0.29065 AU
morning rise	10926 Nov 27 18:13	9°♐09'03	
direct	10926 Dec 15 22:51	2°♐54'55	
greatest brilliancy	10926 Dec 26 08:46	4°♐52'29	-4.7m
asc. node	10927 Jan 19 05:06	19°♐55'52	
	10927 Jan 30 11:35	0°♑	
morning max el	10927 Feb 03 02:04	3°♑27'51	45°51'37
	10927 Feb 28 09:32	0°♒	
	10927 Mar 26 15:54	0°♓	
	10927 Apr 20 20:08	0°♈	

desc. node	10927 May 11	00:45	24°♈35'33	
	10927 May 15	10:23	0°♉	
	10927 Jun 08	16:27	0°♊	
	10927 Jul 02	18:10	0°♋	
	10927 Jul 26	18:34	0°♌	
morning set	10927 Aug 07	03:22	14°♌11'23	
	10927 Aug 19	19:37	0°♍	
asc. node	10927 Aug 31	17:59	14°♍51'26	
	10927 Sep 12	22:11	0°♎	
superior conj	10927 Sep 14	22:07	2°♎28'53	0°33'34
minimum elong	10927 Sep 14	14:53	2°♎06'26	0°33'12
max. Earth dist.	10927 Sep 17	04:45	5°♎18'35	1.72460 AU
	10927 Oct 07	02:34	0°♏	
evening rise	10927 Oct 22	05:59	18°♏43'38	
	10927 Oct 31	09:21	0°♐	
	10927 Nov 24	19:38	0°♑	
	10927 Dec 19	10:38	0°♒	
desc. node	10927 Dec 21	11:19	2°♒27'31	
	10928 Jan 13	07:05	0°♓	
	10928 Feb 07	09:49	0°♈	
	10928 Mar 03	22:17	0°♉	
	10928 Mar 30	08:04	0°♊	
asc. node	10928 Apr 12	10:23	14°♊07'07	
evening max el	10928 Apr 20	11:02	22°♊21'18	46°47'26
	10928 Apr 28	07:46	0°♋	
greatest brilliancy	10928 May 31	01:02	23°♋09'00	-4.9m
retrograde	10928 Jun 09	19:22	24°♋57'19	
evening set	10928 Jun 26	15:10	19°♋28'18	
inferior conj	10928 Jun 30	11:24	17°♋09'26	7°23'23
minimum elong	10928 Jun 30	22:17	16°♋52'48	7°20'41
min. Earth dist.	10928 Jun 30	18:35	16°♋58'26	0.27095 AU
morning rise	10928 Jul 05	05:24	14°♋19'21	
direct	10928 Jul 21	04:07	9°♋21'43	
greatest brilliancy	10928 Jul 31	03:09	11°♋13'30	-4.9m
desc. node	10928 Aug 02	09:48	12°♋06'58	
	10928 Aug 28	04:47	0°♌	
morning max el	10928 Sep 09	04:03	11°♌13'35	46°26'22
	10928 Sep 27	08:25	0°♍	
	10928 Oct 24	08:57	0°♎	
	10928 Nov 19	05:47	0°♏	
asc. node	10928 Nov 23	07:46	4°♏48'51	
	10928 Dec 14	11:06	0°♐	
	10929 Jan 08	06:15	0°♑	
	10929 Feb 01	18:39	0°♒	
	10929 Feb 26	02:28	0°♓	
morning set	10929 Mar 07	07:08	11°♓23'17	
desc. node	10929 Mar 14	23:58	20°♓56'46	
	10929 Mar 22	06:41	0°♈	
max. Earth dist.	10929 Apr 13	00:16	27°♈06'45	1.71736 AU
	10929 Apr 15	07:40	0°♉	
superior conj	10929 Apr 16	00:24	0°♉52'21	-1°08'07
minimum elong	10929 Apr 15	13:03	0°♉16'48	1°08'02
	10929 May 09	06:12	0°♊	
evening rise	10929 May 26	00:41	21°♊02'59	
	10929 Jun 02	03:54	0°♋	
	10929 Jun 26	02:54	0°♌	
asc. node	10929 Jul 05	18:00	12°♌00'42	
	10929 Jul 20	05:24	0°♍	
	10929 Aug 13	13:37	0°♎	
	10929 Sep 07	06:57	0°♏	
	10929 Oct 02	15:44	0°♐	
desc. node	10929 Oct 25	14:53	26°♐03'35	
	10929 Oct 29	05:03	0°♑	
evening max el	10929 Nov 24	15:57	27°♑19'08	45°48'20
	10929 Nov 27	11:54	0°♒	
greatest brilliancy	10930 Jan 02	16:36	25°♒27'03	-4.7m
retrograde	10930 Jan 12	10:19	27°♒09'59	
evening set	10930 Jan 27	21:06	22°♒33'05	
inferior conj	10930 Feb 02	14:25	19°♒06'17	-3°10'22
minimum elong	10930 Feb 02	21:11	18°♒55'43	3°07'58
min. Earth dist.	10930 Feb 03	04:57	18°♒43'35	0.28266 AU
morning rise	10930 Feb 08	20:49	15°♒20'52	
asc. node	10930 Feb 15	15:46	12°♒18'17	
direct	10930 Feb 23	21:19	10°♒56'01	
greatest brilliancy	10930 Mar 06	19:23	13°♒09'00	-4.8m
	10930 Apr 01	00:48	0°♓	
morning max el	10930 Apr 14	23:01	13°♓06'25	46°34'15
	10930 May 01	02:28	0°♈	
	10930 May 27	14:35	0°♉	
desc. node	10930 Jun 07	13:14	12°♉53'13	
	10930 Jun 21	20:25	0°♊	
	10930 Jul 16	12:25	0°♋	
	10930 Aug 09	22:24	0°♌	
	10930 Sep 03	06:22	0°♍	
	10930 Sep 27	13:50	0°♎	
asc. node	10930 Sep 28	07:28	0°♎54'26	
morning set	10930 Oct 17	06:04	24°♎17'38	
	10930 Oct 21	20:59	0°♏	
	10930 Nov 15	03:58	0°♐	
superior conj	10930 Nov 23	05:27	9°♐57'06	1°26'07
minimum elong	10930 Nov 23	05:29	9°♐57'11	1°26'41
max. Earth dist.	10930 Nov 24	03:26	11°♐04'56	1.73184 AU
	10930 Dec 09	11:25	0°♑	
evening rise	10930 Dec 30	04:12	25°♑29'48	
	10931 Jan 02	20:02	0°♒	
desc. node	10931 Jan 17	23:32	18°♒37'10	
	10931 Jan 27	05:58	0°♓	
	10931 Feb 20	16:43	0°♈	
	10931 Mar 17	04:14	0°♉	
	10931 Apr 10	18:15	0°♊	
	10931 May 05	15:32	0°♋	
asc. node	10931 May 10	20:47	6°♋12'35	
	10931 May 31	05:46	0°♌	
	10931 Jun 27	12:28	0°♍	
evening max el	10931 Jul 03	03:14	5°♍44'29	46°45'05
	10931 Jul 31	06:24	0°♎	
greatest brilliancy	10931 Aug 11	09:31	5°♎57'29	-4.8m
retrograde	10931 Aug 22	09:02	8°♎11'12	
desc. node	10931 Aug 30	20:19	6°♎44'16	
evening set	10931 Sep 06	05:45	3°♎51'33	
inferior conj	10931 Sep 12	11:59	0°♎08'05	-3°07'42
minimum elong	10931 Sep 12	05:12	0°♎18'34	3°05'45
min. Earth dist.	10931 Sep 11	18:11	0°♎35'37	0.27793 AU
	10931 Sep 12	17:12	30°℞♍	
morning rise	10931 Sep 18	05:24	26°♍43'53	
direct	10931 Oct 03	12:52	22°♍14'37	
greatest brilliancy	10931 Oct 13	01:53	23°♍54'08	-4.8m
	10931 Oct 25	08:40	0°♎	
morning max el	10931 Nov 21	08:30	22°♎12'10	45°46'26
	10931 Nov 29	06:36	0°♏	
asc. node	10931 Dec 21	19:49	23°♏54'03	
	10931 Dec 27	07:38	0°♐	
	10932 Jan 22	10:56	0°♑	
	10932 Feb 16	16:17	0°♒	
	10932 Mar 12	09:09	0°♓	
	10932 Apr 05	18:02	0°♈	
desc. node	10932 Apr 11	13:29	7°♈11'55	
	10932 Apr 29	21:13	0°♉	
morning set	10932 May 21	00:47	26°♉27'38	
	10932 May 23	20:30	0°♊	
	10932 Jun 16	17:54	0°♋	

superior conj	10932 Jun 30 05:16	16°♋55'20	-1°09'50
minimum elong	10932 Jun 30 16:36	17°♋30'54	1°10'06
max. Earth dist.	10932 Jul 01 17:29	18°♋49'00	1.71405 AU
	10932 Jul 10 15:27	0°♌	
asc. node	10932 Aug 02 06:43	28°♌19'48	
	10932 Aug 03 14:49	0°♍	
evening rise	10932 Aug 09 05:10	6°♍59'02	
	10932 Aug 27 17:09	0°♎	
	10932 Sep 20 23:38	0°♏	
	10932 Oct 15 12:13	0°♐	
	10932 Nov 09 09:54	0°♑	
desc. node	10932 Nov 22 01:40	15°♑00'59	
	10932 Dec 04 20:53	0°♒	
	10932 Dec 31 04:20	0°♓	
	10933 Jan 28 03:59	0°♈	
evening max el	10933 Feb 04 04:07	6°♈58'48	46°09'59
	10933 Mar 03 10:37	0°♉	
asc. node	10933 Mar 15 02:14	6°♉09'22	
greatest brilliancy	10933 Mar 15 22:58	6°♉28'17	-4.8m
retrograde	10933 Mar 25 17:39	8°♉15'49	
evening set	10933 Apr 10 13:51	3°♉23'27	
inferior conj	10933 Apr 15 12:44	0°♉25'04	7°04'26
minimum elong	10933 Apr 15 01:49	0°♉41'57	7°01'57
min. Earth dist.	10933 Apr 15 11:59	0°♉26'14	0.27388 AU
	10933 Apr 16 04:56	30°℞♈	
morning rise	10933 Apr 19 13:34	27°♈57'40	
direct	10933 May 06 08:02	22°♈29'01	
greatest brilliancy	10933 May 16 08:03	24°♈21'43	-4.9m
	10933 May 27 08:43	0°♉	
morning max el	10933 Jun 25 19:27	25°♉15'39	46°58'47
	10933 Jun 30 10:50	0°♊	
desc. node	10933 Jul 05 00:58	4°♊48'36	
	10933 Jul 27 20:26	0°♋	
	10933 Aug 22 15:27	0°♌	
	10933 Sep 16 19:30	0°♍	
	10933 Oct 11 16:25	0°♎	
asc. node	10933 Oct 25 20:47	17°♎12'51	
	10933 Nov 05 08:38	0°♏	
	10933 Nov 29 21:03	0°♐	
	10933 Dec 24 06:36	0°♑	
morning set	10933 Dec 25 01:13	0°♑57'21	
	10934 Jan 17 14:17	0°♒	
max. Earth dist.	10934 Jan 29 11:46	14°♒41'50	1.72910 AU
superior conj	10934 Jan 31 03:47	16°♒45'32	0°33'53
minimum elong	10934 Jan 31 11:02	17°♒07'56	0°34'00
	10934 Feb 10 20:43	0°♓	
desc. node	10934 Feb 14 12:36	4°♓31'54	
	10934 Mar 07 01:44	0°♈	
evening rise	10934 Mar 10 15:18	4°♈25'31	
	10934 Mar 31 05:06	0°♉	
	10934 Apr 24 07:26	0°♊	
	10934 May 18 10:43	0°♋	
asc. node	10934 Jun 07 07:58	24°♋33'58	
	10934 Jun 11 18:09	0°♌	
	10934 Jul 06 10:11	0°♍	
	10934 Jul 31 18:17	0°♎	
	10934 Aug 27 11:33	0°♏	
evening max el	10934 Sep 12 03:02	16°♏09'32	46°08'46
desc. node	10934 Sep 27 06:38	0°♐03'53	
	10934 Sep 27 04:47	0°♐	
greatest brilliancy	10934 Oct 21 03:52	15°♐16'13	-4.8m
retrograde	10934 Oct 31 15:39	17°♐17'03	
evening set	10934 Nov 18 23:19	10°♐58'54	
inferior conj	10934 Nov 22 04:35	8°♐58'59	-8°42'41
minimum elong	10934 Nov 22 04:21	8°♐59'20	8°42'09
min. Earth dist.	10934 Nov 22 00:45	9°♐04'59	0.29056 AU
morning rise	10934 Nov 25 09:26	6°♐59'43	
direct	10934 Dec 13 14:58	0°♐44'20	
greatest brilliancy	10934 Dec 23 23:31	2°♐41'06	-4.7m
asc. node	10935 Jan 18 07:05	18°♐56'15	
	10935 Jan 30 10:36	0°♑	
morning max el	10935 Jan 31 18:13	1°♑16'39	45°50'37
	10935 Feb 28 01:26	0°♒	
	10935 Mar 26 05:27	0°♓	
	10935 Apr 20 08:38	0°♈	
desc. node	10935 May 10 02:34	24°♈04'15	
	10935 May 14 22:19	0°♉	
	10935 Jun 08 04:01	0°♊	
	10935 Jul 02 05:29	0°♋	
	10935 Jul 26 05:41	0°♌	
morning set	10935 Aug 04 16:52	11°♌49'15	
	10935 Aug 19 06:35	0°♍	
asc. node	10935 Aug 30 19:55	14°♍23'30	
	10935 Sep 12 09:05	0°♎	
superior conj	10935 Sep 12 12:59	0°♎12'08	0°30'17
minimum elong	10935 Sep 12 06:20	29°♍51'29	0°29'54
max. Earth dist.	10935 Sep 14 21:44	3°♎08'27	1.72425 AU
	10935 Oct 06 13:27	0°♏	
evening rise	10935 Oct 19 22:42	16°♏33'24	
	10935 Oct 30 20:17	0°♐	
	10935 Nov 24 06:44	0°♑	
	10935 Dec 18 22:04	0°♒	
desc. node	10935 Dec 20 13:14	1°♒58'37	
	10936 Jan 12 19:04	0°♓	
	10936 Feb 06 22:43	0°♈	
	10936 Mar 03 12:44	0°♉	
	10936 Mar 30 01:43	0°♊	
asc. node	10936 Apr 11 12:15	13°♊18'14	
evening max el	10936 Apr 18 01:22	19°♊59'24	46°46'28
	10936 Apr 28 11:29	0°♋	
greatest brilliancy	10936 May 28 13:59	20°♋42'47	-4.9m
retrograde	10936 Jun 07 08:43	22°♋30'57	
evening set	10936 Jun 24 07:35	16°♋56'49	
inferior conj	10936 Jun 28 00:05	14°♋43'09	7°37'37
minimum elong	10936 Jun 28 10:40	14°♋26'56	7°35'05
min. Earth dist.	10936 Jun 28 07:04	14°♋32'28	0.27098 AU
morning rise	10936 Jul 02 13:49	11°♋59'08	
direct	10936 Jul 18 17:25	6°♋55'35	
greatest brilliancy	10936 Jul 28 14:58	8°♋46'22	-4.9m
desc. node	10936 Aug 01 11:51	10°♋22'31	
	10936 Aug 28 09:59	0°♌	
morning max el	10936 Sep 06 18:04	8°♌52'41	46°27'57
	10936 Sep 27 02:18	0°♍	
	10936 Oct 23 23:23	0°♎	
	10936 Nov 18 18:33	0°♏	
asc. node	10936 Nov 22 09:35	4°♏16'58	
	10936 Dec 13 22:59	0°♐	
	10937 Jan 07 17:37	0°♑	
	10937 Feb 01 05:44	0°♒	
	10937 Feb 25 13:26	0°♓	
morning set	10937 Mar 04 21:31	9°♓05'14	
desc. node	10937 Mar 14 01:55	20°♓28'57	
	10937 Mar 21 17:36	0°♈	
max. Earth dist.	10937 Apr 10 09:52	24°♈32'35	1.71775 AU
superior conj	10937 Apr 13 12:54	28°♈27'07	-1°05'40
minimum elong	10937 Apr 13 01:28	27°♈51'20	1°05'31
	10937 Apr 14 18:37	0°♉	
	10937 May 08 17:13	0°♊	
evening rise	10937 May 23 11:54	18°♊32'42	
	10937 Jun 01 15:00	0°♋	
	10937 Jun 25 14:10	0°♌	

asc. node	10937 Jul 04 19:57	11°♌31'34	
	10937 Jul 19 16:51	0°♍	
	10937 Aug 13 01:24	0°♎	
	10937 Sep 06 19:20	0°♏	
	10937 Oct 02 05:18	0°♐	
desc. node	10937 Oct 24 16:46	25°♐25'31	
	10937 Oct 28 21:17	0°♑	
evening max el	10937 Nov 22 06:53	25°♑05'38	45°48'15
	10937 Nov 27 12:23	0°♒	
greatest brilliancy	10937 Dec 31 08:17	23°♒14'27	-4.7m
retrograde	10938 Jan 10 00:47	24°♒56'21	
evening set	10938 Jan 25 14:38	20°♒16'18	
inferior conj	10938 Jan 31 05:47	16°♒52'19	-3°29'59
minimum elong	10938 Jan 31 13:07	16°♒40'50	3°27'27
min. Earth dist.	10938 Jan 31 20:48	16°♒28'48	0.28307 AU
morning rise	10938 Feb 06 11:08	13°♒07'50	
asc. node	10938 Feb 14 17:50	9°♒37'28	
direct	10938 Feb 21 12:47	8°♒41'38	
greatest brilliancy	10938 Mar 04 11:24	10°♒54'31	-4.8m
	10938 Apr 01 05:29	0°♓	
morning max el	10938 Apr 12 12:52	10°♓46'18	46°32'44
	10938 Apr 30 19:57	0°♈	
	10938 May 27 04:54	0°♉	
desc. node	10938 Jun 06 15:13	12°♉18'35	
	10938 Jun 21 09:20	0°♊	
	10938 Jul 16 00:34	0°♋	
	10938 Aug 09 10:04	0°♌	
	10938 Sep 02 17:41	0°♍	
asc. node	10938 Sep 27 09:20	0°♎26'12	
	10938 Sep 27 00:51	0°♎	
morning set	10938 Oct 14 22:08	22°♎05'32	
	10938 Oct 21 07:48	0°♏	
	10938 Nov 14 14:41	0°♐	
superior conj	10938 Nov 20 22:42	7°♐49'13	1°26'04
minimum elong	10938 Nov 20 22:00	7°♐47'02	1°26'37
max. Earth dist.	10938 Nov 21 20:42	8°♐57'05	1.73172 AU
	10938 Dec 08 22:08	0°♑	
evening rise	10938 Dec 27 20:37	23°♑19'20	
	10939 Jan 02 06:53	0°♒	
desc. node	10939 Jan 17 01:34	18°♒09'46	
	10939 Jan 26 17:01	0°♓	
	10939 Feb 20 04:04	0°♈	
	10939 Mar 16 16:00	0°♉	
	10939 Apr 10 06:39	0°♊	
	10939 May 05 05:00	0°♋	
asc. node	10939 May 09 22:43	5°♋37'32	
	10939 May 30 21:18	0°♌	
	10939 Jun 27 09:12	0°♍	
evening max el	10939 Jun 30 16:40	3°♍21'45	46°45'48
	10939 Aug 01 14:10	0°♎	
greatest brilliancy	10939 Aug 09 01:37	3°♎40'09	-4.8m
retrograde	10939 Aug 19 23:18	5°♎52'40	
desc. node	10939 Aug 29 22:21	3°♎53'03	
evening set	10939 Sep 03 19:19	1°♎34'41	
	10939 Sep 06 13:39	30°℞♍	
min. Earth dist.	10939 Sep 09 09:40	28°♍16'24	0.27742 AU
inferior conj	10939 Sep 10 02:22	27°♍50'34	-2°46'45
minimum elong	10939 Sep 09 20:16	28°♍00'01	2°45'00
morning rise	10939 Sep 15 21:51	24°♍23'27	
direct	10939 Oct 01 02:12	19°♍57'38	
greatest brilliancy	10939 Oct 10 16:46	21°♍38'07	-4.8m
	10939 Oct 26 08:43	0°♎	
morning max el	10939 Nov 18 21:59	19°♎54'41	45°47'19
	10939 Nov 29 02:17	0°♏	
asc. node	10939 Dec 20 21:53	23°♏17'06	
	10939 Dec 26 22:24	0°♐	

	10940 Jan 21 23:47	0°♑	
	10940 Feb 16 04:11	0°♒	
	10940 Mar 11 20:34	0°♓	
	10940 Apr 05 05:10	0°♈	
desc. node	10940 Apr 10 15:16	6°♈43'06	
	10940 Apr 29 08:11	0°♉	
morning set	10940 May 18 12:00	23°♉58'12	
	10940 May 23 07:22	0°♊	
	10940 Jun 16 04:42	0°♋	
superior conj	10940 Jun 27 17:22	14°♋28'52	-1°12'07
minimum elong	10940 Jun 28 04:25	15°♋03'36	1°12'24
max. Earth dist.	10940 Jun 28 23:22	16°♋03'02	1.71387 AU
	10940 Jul 10 02:13	0°♌	
asc. node	10940 Aug 01 08:41	27°♌52'21	
	10940 Aug 03 01:35	0°♍	
evening rise	10940 Aug 06 18:38	4°♍37'47	
	10940 Aug 27 04:00	0°♎	
	10940 Sep 20 10:40	0°♏	
	10940 Oct 14 23:34	0°♐	
	10940 Nov 08 21:50	0°♑	
desc. node	10940 Nov 21 03:38	14°♑30'15	
	10940 Dec 04 09:55	0°♒	
	10940 Dec 30 19:32	0°♓	
	10941 Jan 28 00:39	0°♈	
evening max el	10941 Feb 01 17:55	4°♈39'55	46°08'47
	10941 Mar 04 19:15	0°♉	
greatest brilliancy	10941 Mar 13 11:41	4°♉05'49	-4.8m
asc. node	10941 Mar 14 04:09	4°♉19'52	
retrograde	10941 Mar 23 07:25	5°♉54'16	
evening set	10941 Apr 07 23:36	1°♉06'34	
	10941 Apr 09 21:32	30°℞♈	
inferior conj	10941 Apr 13 02:17	28°♈02'58	6°48'55
minimum elong	10941 Apr 12 15:16	28°♈19'59	6°46'18
min. Earth dist.	10941 Apr 13 01:30	28°♈04'11	0.27403 AU
morning rise	10941 Apr 17 06:44	25°♈30'31	
direct	10941 May 03 21:53	20°♈06'24	
greatest brilliancy	10941 May 13 22:29	22°♈00'01	-4.9m
	10941 May 28 10:33	0°♉	
morning max el	10941 Jun 23 10:11	22°♉55'40	46°59'05
	10941 Jun 30 07:17	0°♊	
desc. node	10941 Jul 04 02:59	4°♊02'38	
	10941 Jul 27 11:49	0°♋	
	10941 Aug 22 04:44	0°♌	
	10941 Sep 16 07:39	0°♍	
	10941 Oct 11 03:52	0°♎	
asc. node	10941 Oct 24 22:37	16°♎44'22	
	10941 Nov 04 19:39	0°♏	
	10941 Nov 29 07:48	0°♐	
morning set	10941 Dec 22 18:26	28°♐49'56	
	10941 Dec 23 17:10	0°♑	
	10942 Jan 17 00:49	0°♒	
max. Earth dist.	10942 Jan 27 08:27	12°♒44'51	1.72938 AU
superior conj	10942 Jan 28 19:29	14°♒33'05	0°37'01
minimum elong	10942 Jan 29 03:14	14°♒57'04	0°37'08
	10942 Feb 10 07:16	0°♓	
desc. node	10942 Feb 13 14:28	4°♓04'58	
	10942 Mar 06 12:25	0°♈	
evening rise	10942 Mar 08 05:48	2°♈08'23	
	10942 Mar 30 15:58	0°♉	
	10942 Apr 23 18:32	0°♊	
	10942 May 17 22:07	0°♋	
asc. node	10942 Jun 06 09:59	24°♋04'03	
	10942 Jun 11 05:59	0°♌	
	10942 Jul 05 22:47	0°♍	
	10942 Jul 31 08:20	0°♎	

	10942 Aug 27 05:02	0°♏	
evening max el	10942 Sep 09 19:10	13°♏58'22	46°10'03
desc. node	10942 Sep 26 08:30	29°♏03'18	
	10942 Sep 27 12:19	0°♐	
greatest brilliancy	10942 Oct 18 18:13	13°♐04'49	-4.8m
retrograde	10942 Oct 29 08:24	15°♐07'26	
evening set	10942 Nov 16 14:25	8°♐50'37	
inferior conj	10942 Nov 19 20:40	6°♐49'08	-8°42'11
minimum elong	10942 Nov 19 19:40	6°♐50'43	8°41'38
min. Earth dist.	10942 Nov 19 15:09	6°♐57'47	0.29045 AU
morning rise	10942 Nov 23 01:00	4°♐50'50	
	10942 Dec 02 21:35	30°℞♏	
direct	10942 Dec 11 07:29	28°♏35'02	
	10942 Dec 20 01:41	0°♐	
greatest brilliancy	10942 Dec 21 13:46	0°♐30'10	-4.7m
asc. node	10943 Jan 17 09:06	17°♐58'56	
morning max el	10943 Jan 29 10:28	29°♐06'42	45°49'35
	10943 Jan 30 08:17	0°♑	
	10943 Feb 27 16:43	0°♒	
	10943 Mar 25 18:32	0°♓	
	10943 Apr 19 20:41	0°♈	
desc. node	10943 May 09 04:31	23°♈34'38	
	10943 May 14 09:49	0°♉	
	10943 Jun 07 15:10	0°♊	
	10943 Jul 01 16:23	0°♋	
	10943 Jul 25 16:25	0°♌	
morning set	10943 Aug 02 06:29	9°♌28'34	
	10943 Aug 18 17:11	0°♍	
asc. node	10943 Aug 29 21:44	13°♍56'25	
superior conj	10943 Sep 10 03:59	27°♍56'58	0°26'56
minimum elong	10943 Sep 09 21:58	27°♍38'16	0°26'34
	10943 Sep 11 19:34	0°♎	
max. Earth dist.	10943 Sep 12 16:05	1°♎03'44	1.72385 AU
	10943 Oct 05 23:54	0°♏	
evening rise	10943 Oct 17 15:36	14°♏25'03	
	10943 Oct 30 06:47	0°♐	
	10943 Nov 23 17:26	0°♑	
	10943 Dec 18 09:08	0°♒	
desc. node	10943 Dec 19 15:15	1°♒31'11	
	10944 Jan 12 06:43	0°♓	
	10944 Feb 06 11:17	0°♈	
	10944 Mar 03 02:54	0°♉	
	10944 Mar 29 19:16	0°♊	
asc. node	10944 Apr 10 14:14	12°♊30'16	
evening max el	10944 Apr 15 15:25	17°♊38'13	46°45'31
	10944 Apr 28 16:23	0°♋	
greatest brilliancy	10944 May 26 03:34	18°♋18'58	-4.9m
retrograde	10944 Jun 04 21:43	20°♋06'11	
evening set	10944 Jun 22 00:08	14°♋27'11	
inferior conj	10944 Jun 25 12:56	12°♋18'37	7°50'58
minimum elong	10944 Jun 25 23:08	12°♋02'57	7°48'37
min. Earth dist.	10944 Jun 25 19:53	12°♋07'56	0.27104 AU
morning rise	10944 Jun 29 22:12	9°♋40'39	
direct	10944 Jul 16 06:32	4°♋31'07	
greatest brilliancy	10944 Jul 26 03:14	6°♋21'02	-4.9m
desc. node	10944 Jul 31 13:52	8°♋43'15	
	10944 Aug 28 12:51	0°♌	
morning max el	10944 Sep 04 07:23	6°♌31'05	46°29'33
	10944 Sep 26 19:20	0°♍	
	10944 Oct 23 13:11	0°♎	
	10944 Nov 18 06:47	0°♏	
asc. node	10944 Nov 21 11:39	3°♏47'17	
	10944 Dec 13 10:21	0°♐	
	10945 Jan 07 04:31	0°♑	
	10945 Jan 31 16:25	0°♒	
	10945 Feb 25 00:02	0°♓	
morning set	10945 Mar 02 11:51	6°♓48'08	
desc. node	10945 Mar 13 03:44	20°♓01'49	
	10945 Mar 21 04:11	0°♈	
max. Earth dist.	10945 Apr 07 18:25	21°♈56'22	1.71814 AU
superior conj	10945 Apr 11 01:20	26°♈02'53	-1°03'05
minimum elong	10945 Apr 10 13:52	25°♈27'04	1°02'53
	10945 Apr 14 05:12	0°♉	
	10945 May 08 03:50	0°♊	
evening rise	10945 May 20 23:00	16°♊03'25	
	10945 Jun 01 01:44	0°♋	
	10945 Jun 25 01:03	0°♌	
asc. node	10945 Jul 03 21:55	11°♌03'37	
	10945 Jul 19 03:58	0°♍	
	10945 Aug 12 12:52	0°♎	
	10945 Sep 06 07:26	0°♏	
	10945 Oct 01 18:37	0°♐	
desc. node	10945 Oct 23 18:50	24°♐48'47	
	10945 Oct 28 13:23	0°♑	
evening max el	10945 Nov 19 20:58	22°♑51'24	45°48'16
	10945 Nov 27 13:35	0°♒	
greatest brilliancy	10945 Dec 28 23:58	21°♒03'15	-4.7m
retrograde	10946 Jan 07 15:09	22°♒44'23	
evening set	10946 Jan 23 08:16	18°♒00'40	
inferior conj	10946 Jan 28 21:14	14°♒39'50	-3°49'12
minimum elong	10946 Jan 29 05:06	14°♒27'31	3°46'33
min. Earth dist.	10946 Jan 29 12:52	14°♒15'20	0.28353 AU
morning rise	10946 Feb 04 01:22	10°♒56'37	
asc. node	10946 Feb 13 19:45	7°♒03'01	
direct	10946 Feb 19 04:03	6°♒28'29	
greatest brilliancy	10946 Mar 02 04:01	8°♒42'02	-4.8m
	10946 Apr 01 08:02	0°♓	
morning max el	10946 Apr 10 02:54	8°♓27'28	46°31'10
	10946 Apr 30 12:45	0°♈	
	10946 May 26 18:48	0°♉	
desc. node	10946 Jun 05 17:15	11°♉45'12	
	10946 Jun 20 21:52	0°♊	
	10946 Jul 15 12:21	0°♋	
	10946 Aug 08 21:22	0°♌	
	10946 Sep 02 04:38	0°♍	
asc. node	10946 Sep 26 11:11	29°♍58'53	
	10946 Sep 26 11:32	0°♎	
morning set	10946 Oct 12 14:06	19°♎53'59	
	10946 Oct 20 18:19	0°♏	
	10946 Nov 14 01:07	0°♐	
superior conj	10946 Nov 18 16:04	5°♐42'32	1°25'54
minimum elong	10946 Nov 18 14:37	5°♐38'02	1°26'25
max. Earth dist.	10946 Nov 19 12:54	6°♐46'50	1.73159 AU
	10946 Dec 08 08:35	0°♑	
evening rise	10946 Dec 25 13:14	21°♑10'32	
	10947 Jan 01 17:25	0°♒	
desc. node	10947 Jan 16 03:28	17°♒42'55	
	10947 Jan 26 03:45	0°♓	
	10947 Feb 19 15:08	0°♈	
	10947 Mar 16 03:33	0°♉	
	10947 Apr 09 18:56	0°♊	
	10947 May 04 18:25	0°♋	
asc. node	10947 May 09 00:45	5°♋03'05	
	10947 May 30 12:54	0°♌	
	10947 Jun 27 06:29	0°♍	
evening max el	10947 Jun 28 05:46	0°♍58'40	46°46'42
	10947 Aug 03 13:04	0°♎	
greatest brilliancy	10947 Aug 06 17:11	1°♎22'25	-4.8m
retrograde	10947 Aug 17 13:46	3°♎34'27	
desc. node	10947 Aug 29 00:16	0°♎57'17	
	10947 Aug 31 00:25	30°℞♍	

evening set	10947 Sep 01	08:55	29°♍17'28		
min. Earth dist.	10947 Sep 07	00:51	25°♍57'22	0.27694 AU	
inferior conj	10947 Sep 07	16:36	25°♍33'04	-2°25'17	
minimum elong	10947 Sep 07	11:12	25°♍41'24	2°23'45	
morning rise	10947 Sep 13	14:03	22°♍03'26		
direct	10947 Sep 28	15:25	17°♍40'27		
greatest brilliancy	10947 Oct 08	07:30	19°♍22'10	-4.8m	
	10947 Oct 27	02:14	0°♎		
morning max el	10947 Nov 16	12:19	17°♎39'38	45°48'16	
	10947 Nov 28	21:12	0°♏		
asc. node	10947 Dec 19	23:47	22°♏40'30		
	10947 Dec 26	12:48	0°♐		
	10948 Jan 21	12:21	0°♑		
	10948 Feb 15	15:51	0°♒		
	10948 Mar 11	07:45	0°♓		
	10948 Apr 04	16:06	0°♈		
desc. node	10948 Apr 09	17:14	6°♈15'22		
	10948 Apr 28	19:00	0°♉		
morning set	10948 May 15	22:53	21°♉28'02		
	10948 May 22	18:09	0°♊		
	10948 Jun 15	15:27	0°♋		
superior conj	10948 Jun 25	04:53	12°♋00'42	-1°14'16	
minimum elong	10948 Jun 25	15:34	12°♋34'15	1°14'35	
max. Earth dist.	10948 Jun 26	05:44	13°♋18'42	1.71372 AU	
	10948 Jul 09	12:55	0°♌		
asc. node	10948 Jul 31	10:27	27°♌24'27		
	10948 Aug 02	12:18	0°♍		
evening rise	10948 Aug 04	07:34	2°♍15'00		
	10948 Aug 26	14:47	0°♎		
	10948 Sep 19	21:39	0°♏		
	10948 Oct 14	10:54	0°♐		
	10948 Nov 08	09:48	0°♑		
desc. node	10948 Nov 20	05:40	13°♑59'41		
	10948 Dec 03	23:01	0°♒		
	10948 Dec 30	10:55	0°♓		
	10949 Jan 27	21:58	0°♈		
evening max el	10949 Jan 30	08:41	2°♈23'54	46°07'42	
	10949 Mar 06	19:41	0°♉		
greatest brilliancy	10949 Mar 11	00:08	1°♉43'43	-4.8m	
asc. node	10949 Mar 13	06:06	2°♉26'31		
retrograde	10949 Mar 20	21:27	3°♉33'07		
	10949 Apr 03	05:16	30°♈R		
evening set	10949 Apr 05	09:39	28°♈49'59		
inferior conj	10949 Apr 10	15:52	25°♈41'17	6°32'38	
minimum elong	10949 Apr 10	04:51	25°♈58'18	6°29'57	
min. Earth dist.	10949 Apr 10	14:51	25°♈42'51	0.27419 AU	
morning rise	10949 Apr 14	23:54	23°♈03'48		
direct	10949 May 01	12:12	17°♈44'23		
greatest brilliancy	10949 May 11	12:30	19°♈38'09	-4.9m	
	10949 May 29	05:22	0°♉		
morning max el	10949 Jun 21	01:15	20°♉36'34	46°59'01	
	10949 Jun 30	03:08	0°♊		
desc. node	10949 Jul 03	04:55	3°♊16'56		
	10949 Jul 27	03:05	0°♋		
	10949 Aug 21	18:02	0°♌		
	10949 Sep 15	19:51	0°♍		
	10949 Oct 10	15:23	0°♎		
asc. node	10949 Oct 24	00:38	16°♎16'19		
	10949 Nov 04	06:44	0°♏		
	10949 Nov 28	18:36	0°♐		
morning set	10949 Dec 20	11:32	26°♐41'59		
	10949 Dec 23	03:50	0°♑		
	10950 Jan 16	11:26	0°♒		
max. Earth dist.	10950 Jan 25	03:47	10°♒43'21	1.72960 AU	
superior conj	10950 Jan 26	11:16	12°♒20'37	0°40'06	
minimum elong	10950 Jan 26	19:29	12°♒46'00	0°40'13	
	10950 Feb 09	17:56	0°♓		
desc. node	10950 Feb 12	16:19	3°♓37'40		
evening rise	10950 Mar 05	20:26	29°♓51'27		
	10950 Mar 05	23:11	0°♈		
	10950 Mar 30	02:54	0°♉		
	10950 Apr 23	05:42	0°♊		
	10950 May 17	09:36	0°♋		
asc. node	10950 Jun 05	11:55	23°♋33'30		
	10950 Jun 10	18:00	0°♌		
	10950 Jul 05	11:39	0°♍		
	10950 Jul 30	22:48	0°♎		
	10950 Aug 26	23:15	0°♏		
evening max el	10950 Sep 07	11:27	11°♏46'32	46°11'21	
desc. node	10950 Sep 25	10:35	28°♏00'41		
	10950 Sep 27	23:15	0°♐		
greatest brilliancy	10950 Oct 16	09:05	10°♐52'49	-4.8m	
retrograde	10950 Oct 27	00:45	12°♐56'20		
evening set	10950 Nov 14	05:03	6°♐41'44		
min. Earth dist.	10950 Nov 17	05:34	4°♐49'08	0.29027 AU	
inferior conj	10950 Nov 17	12:36	4°♐38'05	-8°40'55	
minimum elong	10950 Nov 17	10:49	4°♐40'53	8°40'20	
morning rise	10950 Nov 20	16:43	2°♐40'03		
	10950 Nov 25	10:37	30°℞♏		
direct	10950 Dec 08	23:47	26°♏24'41		
greatest brilliancy	10950 Dec 19	03:31	28°♏17'37	-4.7m	
	10950 Dec 23	06:38	0°♐		
asc. node	10951 Jan 16	11:02	17°♐01'54		
morning max el	10951 Jan 27	01:57	26°♐54'12	45°48'34	
	10951 Jan 30	05:28	0°♑		
	10951 Feb 27	08:02	0°♒		
	10951 Mar 25	07:46	0°♓		
	10951 Apr 19	08:54	0°♈		
desc. node	10951 May 08	06:31	23°♈04'44		
	10951 May 13	21:28	0°♉		
	10951 Jun 07	02:28	0°♊		
	10951 Jul 01	03:27	0°♋		
	10951 Jul 25	03:20	0°♌		
morning set	10951 Jul 30	20:04	7°♌07'07		
	10951 Aug 18	04:01	0°♍		
asc. node	10951 Aug 28	23:40	13°♍28'51		
superior conj	10951 Sep 07	18:43	25°♍40'03	0°23'32	
minimum elong	10951 Sep 07	13:24	25°♍23'31	0°23'11	
max. Earth dist.	10951 Sep 10	09:33	28°♍55'22	1.72347 AU	
	10951 Sep 11	06:21	0°♎		
	10951 Oct 05	10:39	0°♏		
evening rise	10951 Oct 15	08:05	12°♏14'24		
	10951 Oct 29	17:36	0°♐		
	10951 Nov 23	04:27	0°♑		
	10951 Dec 17	20:32	0°♒		
desc. node	10951 Dec 18	17:06	1°♒02'13		
	10952 Jan 11	18:45	0°♓		
	10952 Feb 06	00:18	0°♈		
	10952 Mar 02	17:36	0°♉		
	10952 Mar 29	13:36	0°♊		
asc. node	10952 Apr 09	16:21	11°♊40'53		
evening max el	10952 Apr 13	04:50	15°♊14'32	46°44'37	
	10952 Apr 28	23:49	0°♋		
greatest brilliancy	10952 May 23	17:47	15°♋55'25	-4.9m	
retrograde	10952 Jun 02	10:22	17°♋41'13		
evening set	10952 Jun 19	16:45	11°♋57'28		
inferior conj	10952 Jun 23	01:57	9°♋54'04	8°03'17	
minimum elong	10952 Jun 23	11:43	9°♋39'03	8°01'07	
min. Earth dist.	10952 Jun 23	09:09	9°♋43'00	0.27107 AU	
morning rise	10952 Jun 27	06:42	7°♋22'14		
direct	10952 Jul 13	19:15	2°♋06'28		

greatest brilliancy	10952 Jul 23 16:08	3°♋56'05	-4.9m
desc. node	10952 Jul 30 15:46	7°♋07'11	
	10952 Aug 28 14:29	0°♌	
morning max el	10952 Sep 01 20:09	4°♌07'18	46°31'04
	10952 Sep 26 12:17	0°♍	
	10952 Oct 23 03:10	0°♎	
	10952 Nov 17 19:20	0°♏	
asc. node	10952 Nov 20 13:32	3°♏16'02	
	10952 Dec 12 22:04	0°♐	
	10953 Jan 06 15:47	0°♑	
	10953 Jan 31 03:26	0°♒	
	10953 Feb 24 10:57	0°♓	
morning set	10953 Feb 28 02:06	4°♓29'48	
desc. node	10953 Mar 12 05:40	19°♓33'59	
	10953 Mar 20 15:05	0°♈	
max. Earth dist.	10953 Apr 05 03:58	19°♈22'15	1.71856 AU
superior conj	10953 Apr 08 13:46	23°♈37'39	-1°00'22
minimum elong	10953 Apr 08 02:21	23°♈02'03	1°00'09
	10953 Apr 13 16:07	0°♉	
	10953 May 07 14:50	0°♊	
evening rise	10953 May 18 10:16	13°♊33'35	
	10953 May 31 12:49	0°♋	
	10953 Jun 24 12:15	0°♌	
asc. node	10953 Jul 02 23:44	10°♌34'16	
	10953 Jul 18 15:22	0°♍	
	10953 Aug 12 00:37	0°♎	
	10953 Sep 05 19:50	0°♏	
	10953 Oct 01 08:22	0°♐	
desc. node	10953 Oct 22 20:49	24°♐10'25	
	10953 Oct 28 06:11	0°♑	
evening max el	10953 Nov 17 10:54	20°♑35'41	45°48'19
	10953 Nov 27 16:48	0°♒	
greatest brilliancy	10953 Dec 26 15:16	18°♒50'28	-4.7m
retrograde	10954 Jan 05 05:54	20°♒31'34	
evening set	10954 Jan 21 02:00	15°♒43'41	
inferior conj	10954 Jan 26 12:42	12°♒26'17	-4°07'56
minimum elong	10954 Jan 26 21:03	12°♒13'12	4°05'10
min. Earth dist.	10954 Jan 27 04:52	12°♒00'58	0.28400 AU
morning rise	10954 Feb 01 15:30	8°♒44'50	
asc. node	10954 Feb 12 21:44	4°♒32'31	
direct	10954 Feb 16 19:16	4°♒14'10	
greatest brilliancy	10954 Feb 27 20:47	6°♒28'50	-4.8m
	10954 Apr 01 09:35	0°♓	
morning max el	10954 Apr 07 17:42	6°♓09'37	46°29'36
	10954 Apr 30 05:36	0°♈	
	10954 May 26 08:54	0°♉	
desc. node	10954 Jun 04 19:03	11°♉10'14	
	10954 Jun 20 10:41	0°♊	
	10954 Jul 15 00:26	0°♋	
	10954 Aug 08 08:57	0°♌	
	10954 Sep 01 15:50	0°♍	
asc. node	10954 Sep 25 13:10	29°♍31'15	
	10954 Sep 25 22:28	0°♎	
morning set	10954 Oct 10 06:20	17°♎42'20	
	10954 Oct 20 05:05	0°♏	
	10954 Nov 13 11:50	0°♐	
superior conj	10954 Nov 16 09:33	3°♐35'16	1°25'36
minimum elong	10954 Nov 16 07:21	3°♐28'30	1°26'07
max. Earth dist.	10954 Nov 17 06:35	4°♐40'12	1.73151 AU
	10954 Dec 07 19:20	0°♑	
evening rise	10954 Dec 23 05:54	19°♑00'56	
	10955 Jan 01 04:18	0°♒	
desc. node	10955 Jan 15 05:17	17°♒14'47	
	10955 Jan 25 14:51	0°♓	
	10955 Feb 19 02:33	0°♈	
	10955 Mar 15 15:29	0°♉	
	10955 Apr 09 07:37	0°♊	
	10955 May 04 08:19	0°♋	
asc. node	10955 May 08 02:40	4°♋26'54	
	10955 May 30 05:08	0°♌	
evening max el	10955 Jun 25 19:52	28°♌37'05	46°47'37
	10955 Jun 27 05:02	0°♍	
greatest brilliancy	10955 Aug 04 08:19	29°♍03'12	-4.8m
	10955 Aug 07 02:19	0°♎	
retrograde	10955 Aug 15 04:48	1°♎15'24	
	10955 Aug 23 01:14	30°℞♍	
desc. node	10955 Aug 28 02:19	27°♍56'24	
evening set	10955 Aug 29 22:46	26°♍59'05	
min. Earth dist.	10955 Sep 04 15:47	23°♍37'48	0.27643 AU
inferior conj	10955 Sep 05 06:49	23°♍14'40	-2°03'35
minimum elong	10955 Sep 05 02:10	23°♍21'50	2°02'17
morning rise	10955 Sep 11 06:09	19°♍42'58	
direct	10955 Sep 26 04:59	15°♍22'31	
greatest brilliancy	10955 Oct 05 21:42	17°♍05'06	-4.8m
	10955 Oct 27 15:29	0°♎	
morning max el	10955 Nov 14 03:32	15°♎26'17	45°49'15
	10955 Nov 28 15:47	0°♏	
asc. node	10955 Dec 19 01:41	22°♏03'40	
	10955 Dec 26 03:15	0°♐	
	10956 Jan 21 01:06	0°♑	
	10956 Feb 15 03:46	0°♒	
	10956 Mar 10 19:12	0°♓	
	10956 Apr 04 03:18	0°♈	
desc. node	10956 Apr 08 19:11	5°♈46'45	
	10956 Apr 28 06:05	0°♉	
morning set	10956 May 13 09:45	18°♉57'09	
	10956 May 22 05:10	0°♊	
	10956 Jun 15 02:26	0°♋	
superior conj	10956 Jun 22 16:19	9°♋31'21	-1°16'16
minimum elong	10956 Jun 23 02:32	10°♋03'27	1°16'38
max. Earth dist.	10956 Jun 23 14:49	10°♋42'01	1.71361 AU
	10956 Jul 08 23:54	0°♌	
asc. node	10956 Jul 30 12:26	26°♌56'15	
evening rise	10956 Aug 01 20:28	29°♌51'09	
	10956 Aug 01 23:18	0°♍	
	10956 Aug 26 01:51	0°♎	
	10956 Sep 19 08:51	0°♏	
	10956 Oct 13 22:26	0°♐	
	10956 Nov 07 21:56	0°♑	
desc. node	10956 Nov 19 07:33	13°♑28'08	
	10956 Dec 03 12:21	0°♒	
	10956 Dec 30 02:44	0°♓	
	10957 Jan 27 20:24	0°♈	
evening max el	10957 Jan 28 00:15	0°♈09'19	46°06'24
greatest brilliancy	10957 Mar 08 12:55	29°♈21'25	-4.8m
	10957 Mar 10 12:59	0°♉	
asc. node	10957 Mar 12 08:13	0°♉28'01	
retrograde	10957 Mar 18 11:16	1°♉11'08	
	10957 Mar 26 02:10	30°℞♈	
evening set	10957 Apr 02 19:57	26°♈32'42	
inferior conj	10957 Apr 08 05:29	23°♈19'02	6°15'37
minimum elong	10957 Apr 07 18:32	23°♈35'57	6°12'52
min. Earth dist.	10957 Apr 08 04:21	23°♈20'47	0.27435 AU
morning rise	10957 Apr 12 17:01	20°♈36'26	
direct	10957 Apr 29 02:42	15°♈22'01	
greatest brilliancy	10957 May 09 02:26	17°♈15'30	-4.9m
	10957 May 29 19:42	0°♉	
morning max el	10957 Jun 18 15:45	18°♉15'30	46°58'49
	10957 Jun 29 22:35	0°♊	
desc. node	10957 Jul 02 06:54	2°♊31'29	
	10957 Jul 26 18:18	0°♋	

	10957 Aug 21 07:23	0°♌	
	10957 Sep 15 08:09	0°♍	
	10957 Oct 10 03:01	0°♎	
asc. node	10957 Oct 23 02:29	15°♎47'22	
	10957 Nov 03 17:54	0°♏	
	10957 Nov 28 05:28	0°♐	
morning set	10957 Dec 18 05:02	24°♐35'03	
	10957 Dec 22 14:31	0°♑	
	10958 Jan 15 22:05	0°♒	
max. Earth dist.	10958 Jan 22 22:32	8°♒40'02	1.72985 AU
superior conj	10958 Jan 24 03:26	10°♒09'19	0°43'04
minimum elong	10958 Jan 24 12:02	10°♒35'52	0°43'12
	10958 Feb 09 04:41	0°♓	
desc. node	10958 Feb 11 18:18	3°♓10'36	
evening rise	10958 Mar 03 11:11	27°♓34'39	
	10958 Mar 05 10:05	0°♈	
	10958 Mar 29 13:59	0°♉	
	10958 Apr 22 17:01	0°♊	
	10958 May 16 21:15	0°♋	
asc. node	10958 Jun 04 13:47	23°♋02'14	
	10958 Jun 10 06:10	0°♌	
	10958 Jul 05 00:43	0°♍	
	10958 Jul 30 13:32	0°♎	
	10958 Aug 26 18:03	0°♏	
evening max el	10958 Sep 05 03:22	9°♏33'23	46°12'37
desc. node	10958 Sep 24 12:37	26°♏56'13	
	10958 Sep 28 14:03	0°♐	
greatest brilliancy	10958 Oct 14 00:43	8°♐41'34	-4.8m
retrograde	10958 Oct 24 16:39	10°♐45'14	
evening set	10958 Nov 11 19:26	4°♐33'40	
inferior conj	10958 Nov 15 04:37	2°♐27'23	-8°38'55
minimum elong	10958 Nov 15 02:03	2°♐31'26	8°38'19
min. Earth dist.	10958 Nov 14 20:26	2°♐40'16	0.29002 AU
morning rise	10958 Nov 18 08:48	0°♐29'06	
	10958 Nov 19 04:10	30°℞♏	
direct	10958 Dec 06 15:48	24°♏14'46	
greatest brilliancy	10958 Dec 16 17:41	26°♏05'49	-4.7m
	10958 Dec 25 02:44	0°♐	
asc. node	10959 Jan 15 13:02	16°♐06'40	
morning max el	10959 Jan 24 16:34	24°♐40'00	45°47'41
	10959 Jan 30 01:45	0°♑	
	10959 Feb 26 22:59	0°♒	
	10959 Mar 24 20:47	0°♓	
	10959 Apr 18 21:00	0°♈	
desc. node	10959 May 07 08:18	22°♈34'18	
	10959 May 13 09:04	0°♉	
	10959 Jun 06 13:45	0°♊	
	10959 Jun 30 14:31	0°♋	
	10959 Jul 24 14:15	0°♌	
morning set	10959 Jul 28 09:15	4°♌44'22	
	10959 Aug 17 14:49	0°♍	
asc. node	10959 Aug 28 01:35	13°♍01'24	
superior conj	10959 Sep 05 09:11	23°♍22'26	0°20'04
minimum elong	10959 Sep 05 04:36	23°♍08'10	0°19'43
max. Earth dist.	10959 Sep 08 01:39	26°♍42'53	1.72307 AU
	10959 Sep 10 17:04	0°♎	
	10959 Oct 04 21:21	0°♏	
evening rise	10959 Oct 13 00:27	10°♏03'28	
	10959 Oct 29 04:22	0°♐	
	10959 Nov 22 15:24	0°♑	
	10959 Dec 17 07:50	0°♒	
desc. node	10959 Dec 17 19:02	0°♒33'52	
	10960 Jan 11 06:38	0°♓	
	10960 Feb 05 13:10	0°♈	
	10960 Mar 02 08:15	0°♉	
	10960 Mar 29 08:13	0°♊	
asc. node	10960 Apr 08 18:13	10°♊50'25	
evening max el	10960 Apr 10 17:10	12°♊48'31	46°43'25
	10960 Apr 29 09:56	0°♋	
greatest brilliancy	10960 May 21 07:53	13°♋31'19	-4.9m
retrograde	10960 May 30 22:32	15°♋15'46	
evening set	10960 Jun 17 08:59	9°♋27'09	
inferior conj	10960 Jun 20 14:45	7°♋28'52	8°14'38
minimum elong	10960 Jun 20 23:57	7°♋14'42	8°12'42
min. Earth dist.	10960 Jun 20 22:26	7°♋17'03	0.27117 AU
morning rise	10960 Jun 24 14:54	5°♋03'27	
	10960 Jul 07 08:08	30°℞♊	
direct	10960 Jul 11 07:26	29°♊40'51	
	10960 Jul 15 08:32	0°♋	
greatest brilliancy	10960 Jul 21 05:28	1°♋31'07	-4.9m
desc. node	10960 Jul 29 17:50	5°♋34'21	
	10960 Aug 28 14:52	0°♌	
morning max el	10960 Aug 30 08:44	1°♌42'52	46°32'43
	10960 Sep 26 04:50	0°♍	
	10960 Oct 22 16:53	0°♎	
	10960 Nov 17 07:37	0°♏	
asc. node	10960 Nov 19 15:21	2°♏45'19	
	10960 Dec 12 09:33	0°♐	
	10961 Jan 06 02:48	0°♑	
	10961 Jan 30 14:12	0°♒	
	10961 Feb 23 21:35	0°♓	
morning set	10961 Feb 25 16:53	2°♓14'01	
desc. node	10961 Mar 11 07:35	19°♓07'05	
	10961 Mar 20 01:40	0°♈	
max. Earth dist.	10961 Apr 02 17:15	17°♈00'48	1.71900 AU
superior conj	10961 Apr 06 02:39	21°♈14'54	-0°57'35
minimum elong	10961 Apr 05 15:24	20°♈39'46	0°57'20
	10961 Apr 13 02:44	0°♉	
	10961 May 07 01:32	0°♊	
evening rise	10961 May 15 21:54	11°♊05'50	
	10961 May 30 23:39	0°♋	
	10961 Jun 23 23:15	0°♌	
asc. node	10961 Jul 02 01:43	10°♌05'58	
	10961 Jul 18 02:36	0°♍	
	10961 Aug 11 12:14	0°♎	
	10961 Sep 05 08:09	0°♏	
	10961 Sep 30 22:05	0°♐	
desc. node	10961 Oct 21 22:43	23°♐32'02	
	10961 Oct 27 23:07	0°♑	
evening max el	10961 Nov 15 01:05	18°♑21'21	45°48'33
	10961 Nov 27 21:31	0°♒	
greatest brilliancy	10961 Dec 24 05:59	16°♒37'54	-4.7m
retrograde	10962 Jan 02 21:10	18°♒19'38	
evening set	10962 Jan 18 19:48	13°♒27'22	
inferior conj	10962 Jan 24 04:08	10°♒13'32	-4°26'13
minimum elong	10962 Jan 24 12:55	9°♒59'47	4°23'24
min. Earth dist.	10962 Jan 24 20:32	9°♒47'53	0.28444 AU
morning rise	10962 Jan 30 05:26	6°♒34'20	
asc. node	10962 Feb 11 23:48	2°♒08'01	
direct	10962 Feb 14 10:46	2°♒00'43	
greatest brilliancy	10962 Feb 25 13:13	4°♒16'26	-4.8m
	10962 Apr 01 09:22	0°♓	
morning max el	10962 Apr 05 09:23	3°♓55'22	46°28'12
	10962 Apr 29 21:39	0°♈	
	10962 May 25 22:25	0°♉	
desc. node	10962 Jun 03 21:02	10°♉37'21	
	10962 Jun 19 23:01	0°♊	
	10962 Jul 14 12:06	0°♋	
	10962 Aug 07 20:12	0°♌	
	10962 Sep 01 02:46	0°♍	
asc. node	10962 Sep 24 15:00	29°♍03'54	

	10962 Sep 25 09:09	0°♎	
morning set	10962 Oct 07 22:00	15°♎29'40	
	10962 Oct 19 15:36	0°♏	
	10962 Nov 12 22:17	0°♐	
superior conj	10962 Nov 14 02:31	1°♐27'12	1°25'10
minimum elong	10962 Nov 13 23:36	1°♐18'13	1°25'40
max. Earth dist.	10962 Nov 15 01:43	2°♐38'50	1.73139 AU
	10962 Dec 07 05:48	0°♑	
evening rise	10962 Dec 20 22:20	16°♑51'30	
	10962 Dec 31 14:53	0°♒	
desc. node	10963 Jan 14 07:18	16°♒48'08	
	10963 Jan 25 01:39	0°♓	
	10963 Feb 18 13:42	0°♈	
	10963 Mar 15 03:06	0°♉	
	10963 Apr 08 19:56	0°♊	
	10963 May 03 21:51	0°♋	
asc. node	10963 May 07 04:38	3°♋52'09	
	10963 May 29 21:07	0°♌	
evening max el	10963 Jun 23 10:43	26°♌18'54	46°48'19
	10963 Jun 27 03:58	0°♍	
greatest brilliancy	10963 Aug 01 22:53	26°♍44'12	-4.9m
retrograde	10963 Aug 12 19:55	28°♍56'43	
desc. node	10963 Aug 27 04:19	24°♍52'05	
evening set	10963 Aug 27 12:40	24°♍40'55	
inferior conj	10963 Sep 02 20:50	20°♍56'30	-1°41'26
minimum elong	10963 Sep 02 16:58	21°♍02'26	1°40'22
min. Earth dist.	10963 Sep 02 06:21	21°♍18'45	0.27599 AU
morning rise	10963 Sep 08 21:56	17°♍22'54	
direct	10963 Sep 23 18:57	13°♍04'52	
greatest brilliancy	10963 Oct 03 11:24	14°♍47'45	-4.8m
	10963 Oct 28 01:03	0°♎	
morning max el	10963 Nov 11 19:02	13°♎14'14	45°50'10
	10963 Nov 28 09:40	0°♏	
asc. node	10963 Dec 18 03:45	21°♏28'21	
	10963 Dec 25 17:15	0°♐	
	10964 Jan 20 13:28	0°♑	
	10964 Feb 14 15:17	0°♒	
	10964 Mar 10 06:17	0°♓	
	10964 Apr 03 14:08	0°♈	
desc. node	10964 Apr 07 20:57	5°♈18'41	
	10964 Apr 27 16:48	0°♉	
morning set	10964 May 10 20:59	16°♉28'41	
	10964 May 21 15:47	0°♊	
	10964 Jun 14 12:59	0°♋	
superior conj	10964 Jun 20 04:09	7°♋04'37	-1°18'07
minimum elong	10964 Jun 20 13:50	7°♋35'02	1°18'31
max. Earth dist.	10964 Jun 21 02:38	8°♋15'13	1.71346 AU
	10964 Jul 08 10:25	0°♌	
asc. node	10964 Jul 29 14:22	26°♌29'22	
evening rise	10964 Jul 30 09:35	27°♌29'21	
	10964 Aug 01 09:51	0°♍	
	10964 Aug 25 12:31	0°♎	
	10964 Sep 18 19:44	0°♏	
	10964 Oct 13 09:40	0°♐	
	10964 Nov 07 09:51	0°♑	
desc. node	10964 Nov 18 09:30	12°♑57'29	
	10964 Dec 03 01:32	0°♒	
	10964 Dec 29 18:32	0°♓	
evening max el	10965 Jan 25 15:25	27°♓54'38	46°05'10
	10965 Jan 27 19:30	0°♈	
greatest brilliancy	10965 Mar 06 02:11	27°♈00'40	-4.8m
asc. node	10965 Mar 11 10:06	28°♈25'28	
retrograde	10965 Mar 16 00:32	28°♈49'56	
evening set	10965 Mar 31 06:27	24°♈16'07	
inferior conj	10965 Apr 05 19:03	20°♈57'46	5°58'05
minimum elong	10965 Apr 05 08:16	21°♈14'29	5°55'17
min. Earth dist.	10965 Apr 05 18:09	20°♈59'10	0.27447 AU
morning rise	10965 Apr 10 09:57	18°♈10'02	
direct	10965 Apr 26 16:55	13°♈00'36	
greatest brilliancy	10965 May 06 16:43	14°♈54'02	-4.9m
	10965 May 30 05:55	0°♉	
morning max el	10965 Jun 16 05:21	15°♉53'14	46°58'47
	10965 Jun 29 17:05	0°♊	
desc. node	10965 Jul 01 08:53	1°♊47'55	
	10965 Jul 26 08:52	0°♋	
	10965 Aug 20 20:11	0°♌	
	10965 Sep 14 19:59	0°♍	
	10965 Oct 09 14:14	0°♎	
asc. node	10965 Oct 22 04:20	15°♎19'31	
	10965 Nov 03 04:44	0°♏	
	10965 Nov 27 16:03	0°♐	
morning set	10965 Dec 15 22:09	22°♐27'44	
	10965 Dec 22 00:59	0°♑	
	10966 Jan 15 08:32	0°♒	
max. Earth dist.	10966 Jan 20 14:52	6°♒30'01	1.73008 AU
superior conj	10966 Jan 21 19:21	7°♒57'57	0°46'00
minimum elong	10966 Jan 22 04:17	8°♒25'32	0°46'08
	10966 Feb 08 15:11	0°♓	
desc. node	10966 Feb 10 20:08	2°♓43'45	
evening rise	10966 Mar 01 01:41	25°♓17'52	
	10966 Mar 04 20:44	0°♈	
	10966 Mar 29 00:49	0°♉	
	10966 Apr 22 04:07	0°♊	
	10966 May 16 08:42	0°♋	
asc. node	10966 Jun 03 15:48	22°♋32'08	
	10966 Jun 09 18:08	0°♌	
	10966 Jul 04 13:33	0°♍	
	10966 Jul 30 04:03	0°♎	
	10966 Aug 26 12:54	0°♏	
evening max el	10966 Sep 02 18:25	7°♏19'06	46°13'52
desc. node	10966 Sep 23 14:28	25°♏50'56	
	10966 Sep 29 09:17	0°♐	
greatest brilliancy	10966 Oct 11 16:31	6°♐31'28	-4.8m
retrograde	10966 Oct 22 08:11	8°♐35'16	
evening set	10966 Nov 09 09:33	2°♐27'02	
inferior conj	10966 Nov 12 20:44	0°♐17'41	-8°36'10
minimum elong	10966 Nov 12 17:22	0°♐22'58	8°35'29
min. Earth dist.	10966 Nov 12 11:40	0°♐31'57	0.28982 AU
	10966 Nov 13 07:58	30°℞♏	
morning rise	10966 Nov 16 01:18	28°♏18'38	
direct	10966 Dec 04 07:31	22°♏05'37	
greatest brilliancy	10966 Dec 14 08:42	23°♏55'32	-4.7m
	10966 Dec 26 08:18	0°♐	
asc. node	10967 Jan 14 15:01	15°♐12'56	
morning max el	10967 Jan 22 06:44	22°♐24'59	45°46'47
	10967 Jan 29 21:17	0°♑	
	10967 Feb 26 13:40	0°♒	
	10967 Mar 24 09:37	0°♓	
	10967 Apr 18 08:57	0°♈	
desc. node	10967 May 06 10:16	22°♈04'54	
	10967 May 12 20:31	0°♉	
	10967 Jun 06 00:53	0°♊	
	10967 Jun 30 01:27	0°♋	
	10967 Jul 24 01:01	0°♌	
morning set	10967 Jul 25 22:27	2°♌22'02	
	10967 Aug 17 01:28	0°♍	
asc. node	10967 Aug 27 03:24	12°♍34'05	
superior conj	10967 Sep 02 23:53	21°♍06'02	0°16'35
minimum elong	10967 Sep 02 20:03	20°♍54'07	0°16'15
max. Earth dist.	10967 Sep 05 16:10	24°♍25'57	1.72262 AU

	10967 Sep 10 03:37	0°♎	
	10967 Oct 04 07:52	0°♏	
evening rise	10967 Oct 10 17:07	7°♏54'02	
	10967 Oct 28 14:58	0°♐	
	10967 Nov 22 02:15	0°♑	
desc. node	10967 Dec 16 21:03	0°♒05'51	
	10967 Dec 16 19:07	0°♒	
	10968 Jan 10 18:35	0°♓	
	10968 Feb 05 02:10	0°♈	
	10968 Mar 01 23:09	0°♉	
	10968 Mar 29 03:25	0°♊	
asc. node	10968 Apr 07 20:13	9°♊59'16	
evening max el	10968 Apr 08 05:10	10°♊21'39	46°42'23
	10968 Apr 29 23:35	0°♋	
greatest brilliancy	10968 May 18 21:30	11°♋06'38	-4.9m
retrograde	10968 May 28 10:57	12°♋50'34	
evening set	10968 Jun 15 01:04	6°♋56'48	
inferior conj	10968 Jun 18 03:32	5°♋03'37	8°25'09
minimum elong	10968 Jun 18 12:07	4°♋50'25	8°23'24
min. Earth dist.	10968 Jun 18 11:31	4°♋51'21	0.27127 AU
morning rise	10968 Jun 21 23:07	2°♋44'55	
	10968 Jun 27 03:43	30°℞♊	
direct	10968 Jul 08 19:41	27°♊14'58	
greatest brilliancy	10968 Jul 18 18:47	29°♊06'11	-4.9m
	10968 Jul 21 01:48	0°♋	
desc. node	10968 Jul 28 19:49	4°♋04'43	
morning max el	10968 Aug 27 22:11	29°♋20'28	46°34'30
	10968 Aug 28 14:08	0°♌	
	10968 Sep 25 21:03	0°♍	
	10968 Oct 22 06:25	0°♎	
	10968 Nov 16 19:47	0°♏	
asc. node	10968 Nov 18 17:26	2°♏15'34	
	10968 Dec 11 20:57	0°♐	
	10969 Jan 05 13:49	0°♑	
	10969 Jan 30 01:02	0°♒	
morning set	10969 Feb 23 07:38	29°♒57'47	
	10969 Feb 23 08:21	0°♓	
desc. node	10969 Mar 10 09:25	18°♓39'22	
	10969 Mar 19 12:26	0°♈	
max. Earth dist.	10969 Mar 31 07:27	14°♈41'38	1.71944 AU
superior conj	10969 Apr 03 15:15	18°♈50'39	-0°54'40
minimum elong	10969 Apr 03 04:14	18°♈16'17	0°54'22
	10969 Apr 12 13:33	0°♉	
	10969 May 06 12:25	0°♊	
evening rise	10969 May 13 09:19	8°♊36'58	
	10969 May 30 10:39	0°♋	
	10969 Jun 23 10:24	0°♌	
asc. node	10969 Jul 01 03:39	9°♌37'04	
	10969 Jul 17 13:59	0°♍	
	10969 Aug 11 00:01	0°♎	
	10969 Sep 04 20:41	0°♏	
	10969 Sep 30 12:03	0°♐	
desc. node	10969 Oct 21 00:46	22°♐53'33	
	10969 Oct 27 16:30	0°♑	
evening max el	10969 Nov 12 16:16	16°♑09'25	45°48'55
	10969 Nov 28 04:22	0°♒	
greatest brilliancy	10969 Dec 21 20:12	14°♒25'16	-4.7m
retrograde	10969 Dec 31 12:53	16°♒08'08	
evening set	10970 Jan 16 13:54	11°♒11'27	
inferior conj	10970 Jan 21 19:46	8°♒01'02	-4°43'56
minimum elong	10970 Jan 22 04:55	7°♒46'43	4°41'04
min. Earth dist.	10970 Jan 22 11:55	7°♒35'47	0.28493 AU
morning rise	10970 Jan 27 19:26	4°♒24'24	
	10970 Feb 08 22:41	30°℞♑	
asc. node	10970 Feb 11 01:41	29°♑49'00	
direct	10970 Feb 12 03:08	29°♑47'39	
	10970 Feb 15 08:50	0°♒	
greatest brilliancy	10970 Feb 23 05:20	2°♒03'38	-4.8m
	10970 Apr 01 08:24	0°♓	
morning max el	10970 Apr 03 01:45	1°♓42'12	46°26'29
	10970 Apr 29 13:48	0°♈	
	10970 May 25 12:11	0°♉	
desc. node	10970 Jun 02 23:04	10°♉03'39	
	10970 Jun 19 11:39	0°♊	
	10970 Jul 14 00:04	0°♋	
	10970 Aug 07 07:42	0°♌	
	10970 Aug 31 13:56	0°♍	
asc. node	10970 Sep 23 16:51	28°♍35'50	
	10970 Sep 24 20:05	0°♎	
morning set	10970 Oct 05 13:47	13°♎16'32	
	10970 Oct 19 02:23	0°♏	
superior conj	10970 Nov 11 19:43	29°♏19'03	1°24'37
minimum elong	10970 Nov 11 16:06	29°♏07'53	1°25'05
	10970 Nov 12 08:59	0°♐	
max. Earth dist.	10970 Nov 12 22:05	0°♐40'29	1.73122 AU
	10970 Dec 06 16:31	0°♑	
evening rise	10970 Dec 18 15:10	14°♑42'32	
	10970 Dec 31 01:43	0°♒	
desc. node	10971 Jan 13 09:10	16°♒20'17	
	10971 Jan 24 12:43	0°♓	
	10971 Feb 18 01:08	0°♈	
	10971 Mar 14 15:05	0°♉	
	10971 Apr 08 08:44	0°♊	
	10971 May 03 11:58	0°♋	
asc. node	10971 May 06 06:39	3°♋15'54	
	10971 May 29 13:56	0°♌	
evening max el	10971 Jun 21 02:10	24°♌00'37	46°49'03
	10971 Jun 27 04:37	0°♍	
greatest brilliancy	10971 Jul 30 13:41	24°♍24'01	-4.9m
retrograde	10971 Aug 10 10:52	26°♍36'15	
evening set	10971 Aug 25 02:46	22°♍21'04	
desc. node	10971 Aug 26 06:13	21°♍43'06	
inferior conj	10971 Aug 31 10:45	18°♍36'45	-1°18'57
minimum elong	10971 Aug 31 07:44	18°♍41'24	1°18'10
min. Earth dist.	10971 Aug 30 20:48	18°♍58'12	0.27551 AU
morning rise	10971 Sep 06 13:26	15°♍01'22	
direct	10971 Sep 21 09:08	10°♍45'52	
greatest brilliancy	10971 Oct 01 00:43	12°♍28'30	-4.8m
	10971 Oct 28 08:28	0°♎	
morning max el	10971 Nov 09 09:59	10°♎59'46	45°51'08
	10971 Nov 28 03:29	0°♏	
asc. node	10971 Dec 17 05:37	20°♏51'52	
	10971 Dec 25 07:26	0°♐	
	10972 Jan 20 02:03	0°♑	
	10972 Feb 14 03:04	0°♒	
	10972 Mar 09 17:38	0°♓	
	10972 Apr 03 01:18	0°♈	
desc. node	10972 Apr 06 22:57	4°♈50'22	
	10972 Apr 27 03:52	0°♉	
morning set	10972 May 08 08:08	13°♉58'47	
	10972 May 21 02:50	0°♊	
	10972 Jun 14 00:00	0°♋	
superior conj	10972 Jun 17 15:36	4°♋35'08	-1°19'49
minimum elong	10972 Jun 18 00:37	5°♋03'28	1°20'15
max. Earth dist.	10972 Jun 18 11:32	5°♋37'44	1.71335 AU
	10972 Jul 07 21:26	0°♌	
evening rise	10972 Jul 27 22:00	25°♌03'46	
asc. node	10972 Jul 28 16:09	26°♌00'27	
	10972 Jul 31 20:54	0°♍	
	10972 Aug 24 23:39	0°♎	
	10972 Sep 18 07:03	0°♏	

	10972 Oct 12 21:22	0°♐	
	10972 Nov 06 22:15	0°♑	
desc. node	10972 Nov 17 11:32	12°♑25'42	
	10972 Dec 02 15:15	0°♒	
	10972 Dec 29 11:01	0°♓	
evening max el	10973 Jan 23 06:01	25°♓37'49	46°04'01
	10973 Jan 27 20:01	0°♈	
greatest brilliancy	10973 Mar 03 16:15	24°♈40'40	-4.8m
asc. node	10973 Mar 10 12:05	26°♈18'07	
retrograde	10973 Mar 13 13:42	26°♈29'04	
evening set	10973 Mar 28 17:32	21°♈59'24	
inferior conj	10973 Apr 03 09:00	18°♈36'54	5°40'04
minimum elong	10973 Apr 02 22:26	18°♈53'17	5°37'15
min. Earth dist.	10973 Apr 03 08:38	18°♈37'28	0.27463 AU
morning rise	10973 Apr 08 03:10	15°♈44'06	
direct	10973 Apr 24 06:58	10°♈39'27	
greatest brilliancy	10973 May 04 07:54	12°♈33'25	-4.9m
	10973 May 30 13:41	0°♉	
morning max el	10973 Jun 13 18:08	13°♉27'45	46°58'24
	10973 Jun 29 11:33	0°♊	
desc. node	10973 Jun 30 10:50	1°♊03'32	
	10973 Jul 25 23:45	0°♋	
	10973 Aug 20 09:26	0°♌	
	10973 Sep 14 08:17	0°♍	
	10973 Oct 09 01:54	0°♎	
asc. node	10973 Oct 21 06:22	14°♎50'56	
	10973 Nov 02 15:58	0°♏	
	10973 Nov 27 03:01	0°♐	
morning set	10973 Dec 13 15:19	20°♐19'20	
	10973 Dec 21 11:49	0°♑	
	10974 Jan 14 19:20	0°♒	
max. Earth dist.	10974 Jan 18 06:40	4°♒17'15	1.73030 AU
superior conj	10974 Jan 19 11:38	5°♒46'39	0°48'50
minimum elong	10974 Jan 19 20:52	6°♒15'08	0°48'59
	10974 Feb 08 02:04	0°♓	
desc. node	10974 Feb 09 22:01	2°♓15'54	
evening rise	10974 Feb 26 16:41	23°♓01'43	
	10974 Mar 04 07:43	0°♈	
	10974 Mar 28 11:58	0°♉	
	10974 Apr 21 15:30	0°♊	
	10974 May 15 20:27	0°♋	
asc. node	10974 Jun 02 17:45	22°♋00'45	
	10974 Jun 09 06:29	0°♌	
	10974 Jul 04 02:53	0°♍	
	10974 Jul 29 19:18	0°♎	
	10974 Aug 26 08:58	0°♏	
evening max el	10974 Aug 31 08:39	5°♏01'00	46°15'08
desc. node	10974 Sep 22 16:35	24°♏42'42	
	10974 Sep 30 12:59	0°♐	
greatest brilliancy	10974 Oct 09 08:13	4°♐19'19	-4.8m
retrograde	10974 Oct 19 23:46	6°♐23'37	
evening set	10974 Nov 06 23:15	0°♐19'01	
	10974 Nov 07 11:46	30°℞♏	
min. Earth dist.	10974 Nov 10 02:56	28°♏21'43	0.28957 AU
inferior conj	10974 Nov 10 12:43	28°♏06'20	-8°32'37
minimum elong	10974 Nov 10 08:36	28°♏12'48	8°31'52
morning rise	10974 Nov 13 18:03	26°♏06'06	
direct	10974 Dec 01 22:41	19°♏54'45	
greatest brilliancy	10974 Dec 12 00:01	21°♏44'20	-4.7m
	10974 Dec 27 06:14	0°♐	
asc. node	10975 Jan 13 16:58	14°♐19'13	
morning max el	10975 Jan 19 20:57	20°♐09'07	45°46'05
	10975 Jan 29 16:36	0°♑	
	10975 Feb 26 04:27	0°♒	
	10975 Mar 23 22:38	0°♓	
	10975 Apr 17 21:05	0°♈	
desc. node	10975 May 05 12:15	21°♈34'57	
	10975 May 12 08:07	0°♉	
	10975 Jun 05 12:10	0°♊	
	10975 Jun 29 12:33	0°♋	
morning set	10975 Jul 23 11:41	29°♋59'01	
	10975 Jul 23 12:00	0°♌	
	10975 Aug 16 12:21	0°♍	
asc. node	10975 Aug 26 05:21	12°♍06'19	
superior conj	10975 Aug 31 14:21	18°♍47'58	0°13'03
minimum elong	10975 Aug 31 11:20	18°♍38'32	0°12'43
behind sun begin	10975 Aug 30 20:18	17°♍51'46	
behind sun end	10975 Sep 01 02:21	19°♍25'18	
max. Earth dist.	10975 Sep 03 04:38	22°♍01'43	1.72226 AU
	10975 Sep 09 14:27	0°♎	
	10975 Oct 03 18:42	0°♏	
evening rise	10975 Oct 08 09:27	5°♏42'35	
	10975 Oct 28 01:53	0°♐	
	10975 Nov 21 13:24	0°♑	
desc. node	10975 Dec 15 22:55	29°♑36'38	
	10975 Dec 16 06:39	0°♒	
	10976 Jan 10 06:47	0°♓	
	10976 Feb 04 15:27	0°♈	
	10976 Mar 01 14:26	0°♉	
	10976 Mar 28 23:20	0°♊	
evening max el	10976 Apr 05 17:57	7°♊56'45	46°41'30
asc. node	10976 Apr 06 22:20	9°♊07'17	
	10976 Apr 30 17:52	0°♋	
greatest brilliancy	10976 May 16 10:39	8°♋41'53	-4.9m
retrograde	10976 May 26 00:12	10°♋26'13	
evening set	10976 Jun 12 17:15	4°♋27'19	
inferior conj	10976 Jun 15 16:35	2°♋39'00	8°34'35
minimum elong	10976 Jun 16 00:31	2°♋26'50	8°33'00
min. Earth dist.	10976 Jun 16 00:23	2°♋27'01	0.27137 AU
morning rise	10976 Jun 19 07:44	0°♋27'02	
	10976 Jun 20 02:18	30°℞♊	
direct	10976 Jul 06 08:37	24°♊49'53	
greatest brilliancy	10976 Jul 16 07:44	26°♊41'32	-4.9m
	10976 Jul 23 12:29	0°♋	
desc. node	10976 Jul 27 21:44	2°♋38'39	
morning max el	10976 Aug 25 12:36	27°♋00'34	46°36'00
	10976 Aug 28 12:23	0°♌	
	10976 Sep 25 13:02	0°♍	
	10976 Oct 21 19:58	0°♎	
	10976 Nov 16 08:03	0°♏	
asc. node	10976 Nov 17 19:16	1°♏44'42	
	10976 Dec 11 08:31	0°♐	
	10977 Jan 05 00:57	0°♑	
	10977 Jan 29 11:57	0°♒	
morning set	10977 Feb 20 22:29	27°♒41'45	
	10977 Feb 22 19:09	0°♓	
desc. node	10977 Mar 09 11:21	18°♓11'53	
	10977 Mar 18 23:13	0°♈	
max. Earth dist.	10977 Mar 28 22:26	12°♈24'59	1.71985 AU
superior conj	10977 Apr 01 03:56	16°♈26'40	-0°51'40
minimum elong	10977 Mar 31 17:13	15°♈53'16	0°51'20
	10977 Apr 12 00:22	0°♉	
	10977 May 05 23:19	0°♊	
evening rise	10977 May 10 20:59	6°♊08'52	
	10977 May 29 21:39	0°♋	
	10977 Jun 22 21:32	0°♌	
asc. node	10977 Jun 30 05:30	9°♌07'58	
	10977 Jul 17 01:19	0°♍	
	10977 Aug 10 11:47	0°♎	
	10977 Sep 04 09:13	0°♏	
	10977 Sep 30 02:09	0°♐	

desc. node	10977 Oct 20 02:46	22°♐14'24	
	10977 Oct 27 10:21	0°♑	
evening max el	10977 Nov 10 08:07	13°♑58'48	45°49'08
	10977 Nov 28 14:04	0°♒	
greatest brilliancy	10977 Dec 19 10:27	12°♒12'16	-4.7m
retrograde	10977 Dec 29 04:31	13°♒55'53	
evening set	10978 Jan 14 08:00	8°♒55'03	
inferior conj	10978 Jan 19 11:14	5°♒48'03	-5°01'18
minimum elong	10978 Jan 19 20:43	5°♒33'13	4°58'23
min. Earth dist.	10978 Jan 20 02:56	5°♒23'31	0.28537 AU
morning rise	10978 Jan 25 09:03	2°♒14'11	
	10978 Jan 29 20:22	30°℞♑	
direct	10978 Feb 09 19:34	27°♑34'26	
asc. node	10978 Feb 10 03:41	27°♑34'35	
greatest brilliancy	10978 Feb 20 20:36	29°♑49'45	-4.8m
	10978 Feb 21 06:59	0°♒	
morning max el	10978 Mar 31 17:46	29°♒28'30	46°24'48
	10978 Apr 01 06:25	0°♓	
	10978 Apr 29 05:32	0°♈	
	10978 May 25 01:41	0°♉	
desc. node	10978 Jun 02 00:52	9°♉29'58	
	10978 Jun 19 00:03	0°♊	
	10978 Jul 13 11:48	0°♋	
	10978 Aug 06 18:59	0°♌	
	10978 Aug 31 00:52	0°♍	
asc. node	10978 Sep 22 18:50	28°♍08'50	
	10978 Sep 24 06:47	0°♎	
morning set	10978 Oct 03 05:49	11°♎04'50	
	10978 Oct 18 12:57	0°♏	
superior conj	10978 Nov 09 13:00	27°♏11'38	1°23'57
minimum elong	10978 Nov 09 08:41	26°♏58'20	1°24'23
max. Earth dist.	10978 Nov 10 19:00	28°♏44'19	1.73109 AU
	10978 Nov 11 19:30	0°♐	
	10978 Dec 06 03:05	0°♑	
evening rise	10978 Dec 16 07:52	12°♑33'36	
	10978 Dec 30 12:25	0°♒	
desc. node	10979 Jan 12 11:03	15°♒52'50	
	10979 Jan 23 23:39	0°♓	
	10979 Feb 17 12:26	0°♈	
	10979 Mar 14 02:55	0°♉	
	10979 Apr 07 21:23	0°♊	
	10979 May 03 02:00	0°♋	
asc. node	10979 May 05 08:34	2°♋39'51	
	10979 May 29 06:48	0°♌	
evening max el	10979 Jun 18 17:31	21°♌42'47	46°49'40
	10979 Jun 27 06:14	0°♍	
greatest brilliancy	10979 Jul 28 05:07	22°♍05'26	-4.9m
retrograde	10979 Aug 08 01:30	24°♍16'30	
evening set	10979 Aug 22 17:08	20°♍01'57	
desc. node	10979 Aug 25 08:19	18°♍32'12	
min. Earth dist.	10979 Aug 28 11:30	16°♍38'16	0.27502 AU
inferior conj	10979 Aug 29 00:42	16°♍17'58	-0°56'15
minimum elong	10979 Aug 28 22:32	16°♍21'18	0°55'46
morning rise	10979 Sep 04 04:43	12°♍40'49	
direct	10979 Sep 18 23:15	8°♍27'58	
greatest brilliancy	10979 Sep 28 14:06	10°♍10'10	-4.8m
	10979 Oct 28 13:10	0°♎	
morning max el	10979 Nov 06 23:57	8°♎43'51	45°52'07
	10979 Nov 27 20:30	0°♏	
asc. node	10979 Dec 16 07:33	20°♏16'49	
	10979 Dec 24 21:08	0°♐	
	10980 Jan 19 14:18	0°♑	
	10980 Feb 13 14:35	0°♒	
	10980 Mar 09 04:46	0°♓	
	10980 Apr 02 12:12	0°♈	
desc. node	10980 Apr 06 00:53	4°♈22'39	
	10980 Apr 26 14:39	0°♉	
morning set	10980 May 05 19:06	11°♉29'16	
	10980 May 20 13:33	0°♊	
	10980 Jun 13 10:41	0°♋	
superior conj	10980 Jun 15 03:00	2°♋06'38	-1°21'22
minimum elong	10980 Jun 15 11:17	2°♋32'38	1°21'50
max. Earth dist.	10980 Jun 15 18:03	2°♋53'55	1.71325 AU
	10980 Jul 07 08:08	0°♌	
evening rise	10980 Jul 25 10:20	22°♌38'52	
asc. node	10980 Jul 27 18:09	25°♌33'10	
	10980 Jul 31 07:38	0°♍	
	10980 Aug 24 10:28	0°♎	
	10980 Sep 17 18:03	0°♏	
	10980 Oct 12 08:43	0°♐	
	10980 Nov 06 10:18	0°♑	
desc. node	10980 Nov 16 13:25	11°♑54'39	
	10980 Dec 02 04:42	0°♒	
	10980 Dec 29 03:26	0°♓	
evening max el	10981 Jan 20 19:36	23°♓19'28	46°02'42
	10981 Jan 27 21:31	0°♈	
greatest brilliancy	10981 Mar 01 06:23	22°♈21'07	-4.8m
asc. node	10981 Mar 09 14:11	24°♈05'57	
retrograde	10981 Mar 11 02:34	24°♈08'39	
evening set	10981 Mar 26 04:35	19°♈42'33	
inferior conj	10981 Mar 31 22:47	16°♈16'25	5°21'14
minimum elong	10981 Mar 31 12:31	16°♈32'21	5°18'27
min. Earth dist.	10981 Mar 31 23:14	16°♈15'43	0.27481 AU
morning rise	10981 Apr 05 20:10	13°♈18'43	
direct	10981 Apr 21 20:25	8°♈18'26	
greatest brilliancy	10981 May 01 23:28	10°♈13'47	-4.9m
	10981 May 30 18:52	0°♉	
morning max el	10981 Jun 11 06:39	11°♉02'28	46°58'10
	10981 Jun 29 05:11	0°♊	
desc. node	10981 Jun 29 12:49	0°♊20'58	
	10981 Jul 25 14:03	0°♋	
	10981 Aug 19 22:10	0°♌	
	10981 Sep 13 20:06	0°♍	
	10981 Oct 08 13:09	0°♎	
asc. node	10981 Oct 20 08:11	14°♎22'56	
	10981 Nov 02 02:48	0°♏	
	10981 Nov 26 13:34	0°♐	
morning set	10981 Dec 11 08:38	18°♐12'38	
	10981 Dec 20 22:14	0°♑	
	10982 Jan 14 05:45	0°♒	
max. Earth dist.	10982 Jan 16 00:33	2°♒12'08	1.73055 AU
superior conj	10982 Jan 17 04:04	3°♒37'05	0°51'34
minimum elong	10982 Jan 17 13:31	4°♒06'15	0°51'44
	10982 Feb 07 12:33	0°♓	
desc. node	10982 Feb 09 00:01	1°♓49'37	
evening rise	10982 Feb 24 07:42	20°♓46'50	
	10982 Mar 03 18:22	0°♈	
	10982 Mar 27 22:50	0°♉	
	10982 Apr 21 02:37	0°♊	
	10982 May 15 07:58	0°♋	
asc. node	10982 Jun 01 19:37	21°♋30'01	
	10982 Jun 08 18:34	0°♌	
	10982 Jul 03 15:58	0°♍	
	10982 Jul 29 10:20	0°♎	
	10982 Aug 26 05:13	0°♏	
evening max el	10982 Aug 28 22:39	2°♏43'31	46°16'30
desc. node	10982 Sep 21 18:35	23°♏33'32	
	10982 Oct 02 03:59	0°♐	
greatest brilliancy	10982 Oct 06 23:22	2°♐07'32	-4.8m
retrograde	10982 Oct 17 15:39	4°♐13'07	
	10982 Nov 01 09:21	30°℞♏	

evening set	10982 Nov 04 12:34	28°♏12'16		
min. Earth dist.	10982 Nov 07 17:58	26°♏12'42	0.28930 AU	
inferior conj	10982 Nov 08 04:37	25°♏55'58	-8°28'12	
minimum elong	10982 Nov 07 23:47	26°♏03'34	8°27'23	
morning rise	10982 Nov 11 11:04	23°♏54'14		
direct	10982 Nov 29 13:46	17°♏44'44		
greatest brilliancy	10982 Dec 09 15:20	19°♏34'20	-4.7m	
	10982 Dec 27 21:48	0°♐		
asc. node	10983 Jan 12 18:58	13°♐27'58		
morning max el	10983 Jan 17 11:48	17°♐56'08	45°45'32	
	10983 Jan 29 10:54	0°♑		
	10983 Feb 25 18:38	0°♒		
	10983 Mar 23 11:12	0°♓		
	10983 Apr 17 08:51	0°♈		
desc. node	10983 May 04 14:03	21°♈05'24		
	10983 May 11 19:27	0°♉		
	10983 Jun 04 23:13	0°♊		
	10983 Jun 28 23:24	0°♋		
morning set	10983 Jul 21 00:27	27°♋35'18		
	10983 Jul 22 22:42	0°♌		
	10983 Aug 15 22:56	0°♍		
asc. node	10983 Aug 25 07:16	11°♍39'24		
superior conj	10983 Aug 29 04:31	16°♍29'51	0°09'28	
minimum elong	10983 Aug 29 02:18	16°♍22'59	0°09'09	
behind sun begin	10983 Aug 28 06:04	15°♍19'57		
behind sun end	10983 Aug 29 22:33	17°♍26'00		
max. Earth dist.	10983 Aug 31 17:40	19°♍40'14	1.72187 AU	
	10983 Sep 09 00:57	0°♎		
	10983 Oct 03 05:12	0°♏		
evening rise	10983 Oct 06 01:47	3°♏32'08		
	10983 Oct 27 12:30	0°♐		
	10983 Nov 21 00:15	0°♑		
desc. node	10983 Dec 15 00:51	29°♑08'35		
	10983 Dec 15 17:54	0°♒		
	10984 Jan 09 18:41	0°♓		
	10984 Feb 04 04:28	0°♈		
	10984 Mar 01 05:34	0°♉		
	10984 Mar 28 19:34	0°♊		
evening max el	10984 Apr 03 07:23	5°♊34'21	46°40'22	
asc. node	10984 Apr 06 00:10	8°♊14'22		
	10984 May 01 18:30	0°♋		
greatest brilliancy	10984 May 13 22:59	6°♋16'17	-4.9m	
retrograde	10984 May 23 13:32	8°♋01'23		
evening set	10984 Jun 10 08:56	1°♋57'38		
inferior conj	10984 Jun 13 05:19	0°♋13'46	8°43'02	
minimum elong	10984 Jun 13 12:31	0°♋02'43	8°41'39	
min. Earth dist.	10984 Jun 13 12:37	0°♋02'34	0.27150 AU	
	10984 Jun 13 14:17	30°℞♊		
morning rise	10984 Jun 16 16:05	28°♊08'26		
direct	10984 Jul 03 21:51	22°♊24'20		
greatest brilliancy	10984 Jul 13 19:55	24°♊15'40	-4.9m	
	10984 Jul 25 02:04	0°♋		
desc. node	10984 Jul 26 23:49	1°♋15'38		
morning max el	10984 Aug 23 03:15	24°♋41'27	46°37'36	
	10984 Aug 28 09:41	0°♌		
	10984 Sep 25 04:34	0°♍		
	10984 Oct 21 09:08	0°♎		
	10984 Nov 15 20:00	0°♏		
asc. node	10984 Nov 16 21:09	1°♏14'51		
	10984 Dec 10 19:47	0°♐		
	10985 Jan 04 11:50	0°♑		
	10985 Jan 28 22:37	0°♒		
morning set	10985 Feb 18 13:48	25°♒28'01		
	10985 Feb 22 05:43	0°♓		
desc. node	10985 Mar 08 13:16	17°♓45'04		
	10985 Mar 18 09:46	0°♈		
max. Earth dist.	10985 Mar 26 13:17	10°♈08'43	1.72025 AU	
superior conj	10985 Mar 29 17:00	14°♈04'45	-0°48'35	
minimum elong	10985 Mar 29 06:42	13°♈32'37	0°48'15	
	10985 Apr 11 10:58	0°♉		
	10985 May 05 10:02	0°♊		
evening rise	10985 May 08 08:52	3°♊42'02		
	10985 May 29 08:30	0°♋		
	10985 Jun 22 08:34	0°♌		
asc. node	10985 Jun 29 07:29	8°♌39'35		
	10985 Jul 16 12:38	0°♍		
	10985 Aug 09 23:32	0°♎		
	10985 Sep 03 21:46	0°♏		
	10985 Sep 29 16:19	0°♐		
desc. node	10985 Oct 19 04:40	21°♐34'58		
	10985 Oct 27 04:29	0°♑		
evening max el	10985 Nov 08 00:04	11°♑48'52	45°49'28	
	10985 Nov 29 02:52	0°♒		
greatest brilliancy	10985 Dec 17 01:22	10°♒00'51	-4.7m	
retrograde	10985 Dec 26 20:00	11°♒44'25		
evening set	10986 Jan 12 02:20	6°♒39'37		
inferior conj	10986 Jan 17 02:52	3°♒36'01	-5°18'04	
minimum elong	10986 Jan 17 12:36	3°♒20'45	5°15'09	
min. Earth dist.	10986 Jan 17 18:10	3°♒12'03	0.28577 AU	
morning rise	10986 Jan 22 22:35	0°♒04'56		
	10986 Jan 23 02:06	30°℞♑		
direct	10986 Feb 07 12:01	25°♑22'16		
asc. node	10986 Feb 09 05:46	25°♑25'52		
greatest brilliancy	10986 Feb 18 11:46	27°♑36'22	-4.8m	
	10986 Feb 23 16:46	0°♒		
morning max el	10986 Mar 29 09:11	27°♒13'51	46°23'11	
	10986 Apr 01 03:24	0°♓		
	10986 Apr 28 20:51	0°♈		
	10986 May 24 14:56	0°♉		
desc. node	10986 Jun 01 02:53	8°♉57'30		
	10986 Jun 18 12:17	0°♊		
	10986 Jul 12 23:27	0°♋		
	10986 Aug 06 06:13	0°♌		
	10986 Aug 30 11:49	0°♍		
asc. node	10986 Sep 21 20:39	27°♍41'11		
	10986 Sep 23 17:32	0°♎		
morning set	10986 Sep 30 21:30	8°♎51'54		
	10986 Oct 17 23:33	0°♏		
superior conj	10986 Nov 07 06:02	25°♏03'28	1°23'08	
minimum elong	10986 Nov 07 01:04	24°♏48'09	1°23'34	
max. Earth dist.	10986 Nov 08 14:51	26°♏44'52	1.73087 AU	
	10986 Nov 11 06:02	0°♐		
	10986 Dec 05 13:38	0°♑		
evening rise	10986 Dec 14 00:29	10°♑24'22		
	10986 Dec 29 23:06	0°♒		
desc. node	10987 Jan 11 13:03	15°♒25'44		
	10987 Jan 23 10:37	0°♓		
	10987 Feb 16 23:48	0°♈		
	10987 Mar 13 14:49	0°♉		
	10987 Apr 07 10:05	0°♊		
	10987 May 02 16:07	0°♋		
asc. node	10987 May 04 10:32	2°♋03'54		
	10987 May 28 23:58	0°♌		
evening max el	10987 Jun 16 07:52	19°♌22'22	46°50'03	
	10987 Jun 27 09:18	0°♍		
greatest brilliancy	10987 Jul 25 20:58	19°♍46'58	-4.9m	
retrograde	10987 Aug 05 15:33	21°♍56'10		
evening set	10987 Aug 20 07:36	17°♍41'57		
desc. node	10987 Aug 24 10:17	15°♍18'52		
min. Earth dist.	10987 Aug 26 02:32	14°♍17'12	0.27459 AU	
inferior conj	10987 Aug 26 14:35	13°♍58'37	-0°33'24	

minimum elong	10987 Aug 26 13:17	14°♍00'37	0°33'12
morning rise	10987 Sep 01 19:43	10°♍19'44	
direct	10987 Sep 16 12:46	6°♍09'18	
greatest brilliancy	10987 Sep 26 04:03	7°♍51'33	-4.8m
	10987 Oct 28 16:23	0°♎	
morning max el	10987 Nov 04 13:12	6°♎25'22	45°53'12
	10987 Nov 27 13:23	0°♏	
asc. node	10987 Dec 15 09:36	19°♏41'53	
	10987 Dec 24 10:51	0°♐	
	10988 Jan 19 02:35	0°♑	
	10988 Feb 13 02:09	0°♒	
	10988 Mar 08 15:57	0°♓	
	10988 Apr 01 23:12	0°♈	
desc. node	10988 Apr 05 02:38	3°♈54'00	
	10988 Apr 26 01:34	0°♉	
morning set	10988 May 03 06:16	9°♉00'00	
	10988 May 20 00:23	0°♊	
superior conj	10988 Jun 12 14:47	29°♊38'58	-1°22'44
minimum elong	10988 Jun 12 22:16	0°♋02'31	1°23'14
	10988 Jun 12 21:28	0°♋	
max. Earth dist.	10988 Jun 12 22:24	0°♋02'55	1.71315 AU
	10988 Jul 06 18:55	0°♌	
evening rise	10988 Jul 22 22:53	20°♌14'13	
asc. node	10988 Jul 26 20:03	25°♌05'19	
	10988 Jul 30 18:28	0°♍	
	10988 Aug 23 21:26	0°♎	
	10988 Sep 17 05:14	0°♏	
	10988 Oct 11 20:19	0°♐	
	10988 Nov 05 22:40	0°♑	
desc. node	10988 Nov 15 15:23	11°♑22'57	
	10988 Dec 01 18:31	0°♒	
	10988 Dec 28 20:27	0°♓	
evening max el	10989 Jan 18 08:48	20°♓59'47	46°01'38
	10989 Jan 28 00:45	0°♈	
greatest brilliancy	10989 Feb 26 20:22	20°♈01'11	-4.8m
retrograde	10989 Mar 08 15:50	21°♈48'27	
asc. node	10989 Mar 08 16:04	21°♈48'27	
evening set	10989 Mar 23 15:58	17°♈25'06	
inferior conj	10989 Mar 29 12:43	13°♈55'49	5°01'59
minimum elong	10989 Mar 29 02:47	14°♈11'13	4°59'14
min. Earth dist.	10989 Mar 29 13:55	13°♈53'58	0.27503 AU
morning rise	10989 Apr 03 13:14	10°♈53'37	
direct	10989 Apr 19 10:00	5°♈57'04	
greatest brilliancy	10989 Apr 29 15:17	7°♈54'12	-4.9m
	10989 May 30 22:27	0°♉	
morning max el	10989 Jun 08 20:18	8°♉39'28	46°57'59
desc. node	10989 Jun 28 14:48	29°♉38'15	
	10989 Jun 28 22:40	0°♊	
	10989 Jul 25 04:24	0°♋	
	10989 Aug 19 11:01	0°♌	
	10989 Sep 13 08:06	0°♍	
	10989 Oct 08 00:34	0°♎	
asc. node	10989 Oct 19 10:02	13°♎54'19	
	10989 Nov 01 13:51	0°♏	
	10989 Nov 26 00:24	0°♐	
morning set	10989 Dec 09 01:50	16°♐04'33	
	10989 Dec 20 08:57	0°♑	
	10990 Jan 13 16:28	0°♒	
max. Earth dist.	10990 Jan 13 19:46	0°♒10'12	1.73076 AU
superior conj	10990 Jan 14 20:24	1°♒26'13	0°54'14
minimum elong	10990 Jan 15 06:01	1°♒55'56	0°54'25
	10990 Feb 06 23:21	0°♓	
desc. node	10990 Feb 08 01:50	1°♓21'51	
evening rise	10990 Feb 21 22:43	18°♓31'09	
	10990 Mar 03 05:18	0°♈	
	10990 Mar 27 09:59	0°♉	
	10990 Apr 20 14:04	0°♊	
	10990 May 14 19:50	0°♋	
asc. node	10990 May 31 21:38	20°♋58'43	
	10990 Jun 08 07:03	0°♌	
	10990 Jul 03 05:28	0°♍	
	10990 Jul 29 01:54	0°♎	
	10990 Aug 26 02:28	0°♏	
evening max el	10990 Aug 26 13:26	0°♏27'12	46°17'58
desc. node	10990 Sep 20 20:28	22°♏21'30	
greatest brilliancy	10990 Oct 04 13:58	29°♏54'26	-4.8m
	10990 Oct 04 19:57	0°♐	
retrograde	10990 Oct 15 08:05	2°♐01'59	
	10990 Oct 25 09:54	30°℞♏	
evening set	10990 Nov 02 01:45	26°♏04'59	
inferior conj	10990 Nov 05 20:35	23°♏44'46	-8°23'07
minimum elong	10990 Nov 05 15:01	23°♏53'29	8°22'11
min. Earth dist.	10990 Nov 05 08:42	24°♏03'23	0.28903 AU
morning rise	10990 Nov 09 04:25	21°♏41'14	
direct	10990 Nov 27 05:19	15°♏33'56	
greatest brilliancy	10990 Dec 07 06:15	17°♏23'11	-4.7m
	10990 Dec 28 09:47	0°♐	
asc. node	10991 Jan 11 20:57	12°♐36'38	
morning max el	10991 Jan 15 03:43	15°♐44'45	45°44'55
	10991 Jan 29 05:10	0°♑	
	10991 Feb 25 09:03	0°♒	
	10991 Mar 23 00:02	0°♓	
	10991 Apr 16 20:53	0°♈	
desc. node	10991 May 03 16:03	20°♈35'30	
	10991 May 11 07:02	0°♉	
	10991 Jun 04 10:32	0°♊	
	10991 Jun 28 10:34	0°♋	
morning set	10991 Jul 18 13:14	25°♋10'29	
	10991 Jul 22 09:45	0°♌	
	10991 Aug 15 09:53	0°♍	
asc. node	10991 Aug 24 09:05	11°♍11'05	
superior conj	10991 Aug 26 18:39	14°♍10'26	0°05'52
minimum elong	10991 Aug 26 17:18	14°♍06'13	0°05'34
behind sun begin	10991 Aug 25 18:12	12°♍54'16	
behind sun end	10991 Aug 27 16:23	15°♍18'11	
max. Earth dist.	10991 Aug 29 07:41	17°♍20'32	1.72147 AU
	10991 Sep 08 11:49	0°♎	
	10991 Oct 02 16:03	0°♏	
evening rise	10991 Oct 03 18:13	1°♏20'58	
	10991 Oct 26 23:27	0°♐	
	10991 Nov 20 11:26	0°♑	
desc. node	10991 Dec 14 02:52	28°♑39'40	
	10991 Dec 15 05:32	0°♒	
	10992 Jan 09 07:02	0°♓	
	10992 Feb 03 18:01	0°♈	
	10992 Feb 29 21:23	0°♉	
	10992 Mar 28 16:59	0°♊	
evening max el	10992 Mar 31 21:43	3°♊13'08	46°39'18
asc. node	10992 Apr 05 02:12	7°♊19'46	
	10992 May 03 05:57	0°♋	
greatest brilliancy	10992 May 11 11:14	3°♋49'50	-4.9m
retrograde	10992 May 21 02:57	5°♋35'29	
	10992 Jun 07 02:32	30°℞♊	
evening set	10992 Jun 08 00:24	29°♊27'34	
inferior conj	10992 Jun 10 18:05	27°♊47'34	8°50'30
minimum elong	10992 Jun 11 00:29	27°♊37'44	8°49'18
min. Earth dist.	10992 Jun 11 00:37	27°♊37'32	0.27162 AU
morning rise	10992 Jun 14 00:34	25°♊48'35	
direct	10992 Jul 01 11:19	19°♊58'04	
greatest brilliancy	10992 Jul 11 07:41	21°♊48'15	-4.9m
desc. node	10992 Jul 26 01:46	29°♊54'10	

	10992 Jul 26 05:04	0°♋	
morning max el	10992 Aug 20 17:45	22°♋20'46	46°39'01
	10992 Aug 28 06:40	0°♌	
	10992 Sep 24 20:15	0°♍	
	10992 Oct 20 22:35	0°♎	
	10992 Nov 15 08:15	0°♏	
asc. node	10992 Nov 15 23:11	0°♏44'32	
	10992 Dec 10 07:20	0°♐	
	10993 Jan 03 23:00	0°♑	
	10993 Jan 28 09:35	0°♒	
morning set	10993 Feb 16 05:06	23°♒13'10	
	10993 Feb 21 16:38	0°♓	
desc. node	10993 Mar 07 15:06	17°♓16'51	
	10993 Mar 17 20:41	0°♈	
max. Earth dist.	10993 Mar 24 01:19	7°♈42'34	1.72066 AU
superior conj	10993 Mar 27 05:58	11°♈41'23	-0°45'25
minimum elong	10993 Mar 26 20:08	11°♈10'46	0°45'04
	10993 Apr 10 21:57	0°♉	
	10993 May 04 21:05	0°♊	
evening rise	10993 May 05 20:32	1°♊13'29	
	10993 May 28 19:40	0°♋	
	10993 Jun 21 19:54	0°♌	
asc. node	10993 Jun 28 09:25	8°♌10'03	
	10993 Jul 16 00:15	0°♍	
	10993 Aug 09 11:39	0°♎	
	10993 Sep 03 10:45	0°♏	
	10993 Sep 29 07:00	0°♐	
desc. node	10993 Oct 18 06:44	20°♐54'38	
	10993 Oct 26 23:28	0°♑	
evening max el	10993 Nov 05 15:36	9°♑36'59	45°49'50
	10993 Nov 29 20:34	0°♒	
greatest brilliancy	10993 Dec 14 16:49	7°♒49'23	-4.7m
retrograde	10993 Dec 24 11:01	9°♒32'24	
evening set	10994 Jan 09 20:44	4°♒23'41	
inferior conj	10994 Jan 14 18:34	1°♒23'39	-5°34'12
minimum elong	10994 Jan 15 04:30	1°♒08'04	5°31'19
min. Earth dist.	10994 Jan 15 09:40	0°♒59'57	0.28616 AU
	10994 Jan 17 00:07	30°℞♑	
morning rise	10994 Jan 20 11:58	27°♑55'24	
direct	10994 Feb 05 04:05	23°♑09'44	
asc. node	10994 Feb 08 07:37	23°♑21'19	
greatest brilliancy	10994 Feb 16 03:12	25°♑22'43	-4.8m
	10994 Feb 25 05:48	0°♒	
morning max el	10994 Mar 26 23:44	24°♒56'13	46°21'25
	10994 Apr 01 00:01	0°♓	
	10994 Apr 28 12:18	0°♈	
	10994 May 24 04:25	0°♉	
desc. node	10994 May 31 04:51	8°♉24'05	
	10994 Jun 18 00:46	0°♊	
	10994 Jul 12 11:19	0°♋	
	10994 Aug 05 17:40	0°♌	
	10994 Aug 29 22:58	0°♍	
asc. node	10994 Sep 20 22:32	27°♍13'02	
	10994 Sep 23 04:29	0°♎	
morning set	10994 Sep 28 12:58	6°♎37'33	
	10994 Oct 17 10:22	0°♏	
superior conj	10994 Nov 04 23:00	22°♏54'23	1°22'14
minimum elong	10994 Nov 04 17:25	22°♏37'07	1°22'36
max. Earth dist.	10994 Nov 06 08:22	24°♏37'28	1.73065 AU
	10994 Nov 10 16:48	0°♐	
	10994 Dec 05 00:25	0°♑	
evening rise	10994 Dec 11 17:06	8°♑14'34	
	10994 Dec 29 10:00	0°♒	
desc. node	10995 Jan 10 14:54	14°♒57'40	
	10995 Jan 22 21:45	0°♓	
	10995 Feb 16 11:20	0°♈	
	10995 Mar 13 02:56	0°♉	
	10995 Apr 06 23:06	0°♊	
	10995 May 02 06:40	0°♋	
asc. node	10995 May 03 12:33	1°♋26'59	
	10995 May 28 17:50	0°♌	
evening max el	10995 Jun 13 21:14	16°♌58'34	46°50'30
	10995 Jun 27 14:35	0°♍	
greatest brilliancy	10995 Jul 23 13:02	17°♍27'37	-4.9m
retrograde	10995 Aug 03 05:12	19°♍34'50	
evening set	10995 Aug 17 22:05	15°♍20'25	
min. Earth dist.	10995 Aug 23 17:41	11°♍54'47	0.27417 AU
desc. node	10995 Aug 23 12:12	12°♍03'14	
inferior conj	10995 Aug 24 04:21	11°♍38'21	-0°10'20
minimum elong	10995 Aug 24 03:56	11°♍38'59	0°10'26
transit middle	10995 Aug 24 03:56	11°♍38'59	0°10'26
transit begin	10995 Aug 24 00:47	11°♍43'51	
transit end	10995 Aug 24 07:05	11°♍34'07	
morning rise	10995 Aug 30 10:24	7°♍57'56	
direct	10995 Sep 14 01:36	3°♍49'28	
greatest brilliancy	10995 Sep 23 18:20	5°♍32'31	-4.8m
	10995 Oct 28 18:15	0°♎	
morning max el	10995 Nov 02 02:14	4°♎05'48	45°54'22
	10995 Nov 27 06:02	0°♏	
asc. node	10995 Dec 14 11:28	19°♏06'21	
	10995 Dec 24 00:32	0°♐	
	10996 Jan 18 14:53	0°♑	
	10996 Feb 12 13:43	0°♒	
	10996 Mar 08 03:09	0°♓	
	10996 Apr 01 10:13	0°♈	
desc. node	10996 Apr 04 04:39	3°♈26'08	
	10996 Apr 25 12:28	0°♉	
morning set	10996 Apr 30 17:26	6°♉30'36	
	10996 May 19 11:15	0°♊	
superior conj	10996 Jun 10 02:16	27°♊10'08	-1°23'57
minimum elong	10996 Jun 10 08:54	27°♊31'00	1°24'29
max. Earth dist.	10996 Jun 10 01:36	27°♊08'01	1.71315 AU
	10996 Jun 12 08:20	0°♋	
	10996 Jul 06 05:48	0°♌	
evening rise	10996 Jul 20 10:52	17°♌47'35	
asc. node	10996 Jul 25 21:51	24°♌36'51	
	10996 Jul 30 05:23	0°♍	
	10996 Aug 23 08:27	0°♎	
	10996 Sep 16 16:27	0°♏	
	10996 Oct 11 07:58	0°♐	
	10996 Nov 05 11:07	0°♑	
desc. node	10996 Nov 14 17:24	10°♑51'12	
	10996 Dec 01 08:31	0°♒	
	10996 Dec 28 13:49	0°♓	
evening max el	10997 Jan 15 22:35	18°♓41'54	46°00'45
	10997 Jan 28 05:40	0°♈	
greatest brilliancy	10997 Feb 24 09:55	17°♈41'20	-4.8m
retrograde	10997 Mar 06 05:40	19°♈29'04	
asc. node	10997 Mar 07 18:04	19°♈26'17	
evening set	10997 Mar 21 03:40	15°♈07'58	
inferior conj	10997 Mar 27 02:41	11°♈35'54	4°42'20
minimum elong	10997 Mar 26 17:11	11°♈50'37	4°39'38
min. Earth dist.	10997 Mar 27 04:23	11°♈33'15	0.27525 AU
morning rise	10997 Apr 01 06:17	8°♈29'31	
direct	10997 Apr 17 00:04	3°♈36'29	
greatest brilliancy	10997 Apr 27 06:46	5°♈35'09	-4.9m
	10997 May 31 00:14	0°♉	
morning max el	10997 Jun 06 10:52	6°♉19'27	46°57'33
desc. node	10997 Jun 27 16:43	28°♉56'19	
	10997 Jun 28 15:37	0°♊	
	10997 Jul 24 18:31	0°♋	

	10997 Aug 18 23:45	0°♌	
	10997 Sep 12 20:00	0°♍	
	10997 Oct 07 11:54	0°♎	
asc. node	10997 Oct 18 12:05	13°♎26'35	
	10997 Nov 01 00:46	0°♏	
	10997 Nov 25 11:04	0°♐	
morning set	10997 Dec 06 18:49	13°♐56'18	
	10997 Dec 19 19:31	0°♑	
max. Earth dist.	10998 Jan 11 16:04	28°♑12'02	1.73096 AU
superior conj	10998 Jan 12 12:38	29°♑15'33	0°56'49
minimum elong	10998 Jan 12 22:24	29°♑45'40	0°57'02
	10998 Jan 13 03:03	0°♒	
	10998 Feb 06 10:00	0°♓	
desc. node	10998 Feb 07 03:42	0°♓54'42	
evening rise	10998 Feb 19 13:49	16°♓16'18	
	10998 Mar 02 16:04	0°♈	
	10998 Mar 26 20:55	0°♉	
	10998 Apr 20 01:16	0°♊	
	10998 May 14 07:26	0°♋	
asc. node	10998 May 30 23:34	20°♋27'55	
	10998 Jun 07 19:18	0°♌	
	10998 Jul 02 18:49	0°♍	
	10998 Jul 28 17:29	0°♎	
evening max el	10998 Aug 24 05:08	28°♎13'34	46°19'22
	10998 Aug 26 00:23	0°♏	
desc. node	10998 Sep 19 22:35	21°♏08'00	
greatest brilliancy	10998 Oct 02 04:20	27°♏41'09	-4.8m
retrograde	10998 Oct 13 00:42	29°♏50'36	
evening set	10998 Oct 30 14:34	23°♏57'54	
min. Earth dist.	10998 Nov 02 23:03	21°♏54'11	0.28871 AU
inferior conj	10998 Nov 03 12:19	21°♏33'27	-8°17'15
minimum elong	10998 Nov 03 06:06	21°♏43'10	8°16'12
morning rise	10998 Nov 06 21:49	19°♏27'41	
direct	10998 Nov 24 21:03	13°♏23'15	
greatest brilliancy	10998 Dec 04 20:20	15°♏11'28	-4.7m
	10998 Dec 28 18:19	0°♐	
asc. node	10999 Jan 10 22:54	11°♐46'53	
morning max el	10999 Jan 12 19:49	13°♐34'43	45°44'17
	10999 Jan 28 22:43	0°♑	
	10999 Feb 24 23:01	0°♒	
	10999 Mar 22 12:31	0°♓	
	10999 Apr 16 08:34	0°♈	
desc. node	10999 May 02 17:58	20°♈06'27	
	10999 May 10 18:15	0°♉	
	10999 Jun 03 21:29	0°♊	
	10999 Jun 27 21:20	0°♋	
morning set	10999 Jul 16 02:16	22°♋47'47	
	10999 Jul 21 20:23	0°♌	
	10999 Aug 14 20:25	0°♍	
asc. node	10999 Aug 23 11:02	10°♍44'18	
superior conj	10999 Aug 24 08:43	11°♍51'53	0°02'14
minimum elong	10999 Aug 24 08:14	11°♍50'25	0°01'57
behind sun begin	10999 Aug 23 07:57	10°♍34'42	
behind sun end	10999 Aug 25 08:32	13°♍06'09	
max. Earth dist.	10999 Aug 26 23:34	15°♍07'46	1.72113 AU
	10999 Sep 07 22:18	0°♎	
evening rise	10999 Oct 01 10:26	29°♎10'04	
	10999 Oct 02 02:34	0°♏	
	10999 Oct 26 10:05	0°♐	
	10999 Nov 19 22:19	0°♑	
desc. node	10999 Dec 13 04:42	28°♑11'08	
	10999 Dec 14 16:51	0°♒	
	11000 Jan 08 19:05	0°♓	
	11000 Feb 03 07:21	0°♈	
	11000 Mar 01 13:06	0°♉	
	11000 Mar 29 14:49	0°♊	
evening max el	11000 Mar 30 12:15	0°♊53'32	46°38'09
asc. node	11000 Apr 05 04:18	6°♊25'13	
	11000 May 06 11:00	0°♋	
greatest brilliancy	11000 May 10 00:06	1°♋25'29	-4.9m
retrograde	11000 May 19 16:11	3°♋10'52	
	11000 Jun 01 05:13	30°℞♊	
evening set	11000 Jun 06 15:45	26°♊59'36	
inferior conj	11000 Jun 09 06:57	25°♊23'06	8°57'07
minimum elong	11000 Jun 09 12:31	25°♊14'32	8°56'03
min. Earth dist.	11000 Jun 09 12:55	25°♊13'54	0.27167 AU
morning rise	11000 Jun 12 09:18	23°♊30'02	
direct	11000 Jun 30 00:38	17°♊33'41	
greatest brilliancy	11000 Jul 09 19:40	19°♊22'41	-4.9m
desc. node	11000 Jul 26 03:42	28°♊36'57	
	11000 Jul 27 23:59	0°♋	
morning max el	11000 Aug 19 07:26	19°♋59'38	46°40'25
	11000 Aug 29 02:18	0°♌	
	11000 Sep 25 11:08	0°♍	
	11000 Oct 21 11:26	0°♎	
	11000 Nov 15 20:01	0°♏	
asc. node	11000 Nov 16 01:01	0°♏14'55	
	11000 Dec 10 18:29	0°♐	
	11001 Jan 04 09:46	0°♑	
	11001 Jan 28 20:10	0°♒	
morning set	11001 Feb 14 20:20	20°♒59'26	
	11001 Feb 22 03:07	0°♓	
desc. node	11001 Mar 07 17:02	16°♓50'12	
	11001 Mar 18 07:11	0°♈	
max. Earth dist.	11001 Mar 22 11:58	5°♈13'33	1.72109 AU
superior conj	11001 Mar 25 18:59	9°♈19'35	-0°42'11
minimum elong	11001 Mar 25 09:42	8°♈50'38	0°41'48
	11001 Apr 11 08:32	0°♉	
evening rise	11001 May 04 08:18	28°♉46'27	
	11001 May 05 07:47	0°♊	
	11001 May 29 06:28	0°♋	
	11001 Jun 22 06:50	0°♌	
asc. node	11001 Jun 28 11:15	7°♌41'34	
	11001 Jul 16 11:27	0°♍	
	11001 Aug 09 23:17	0°♎	
	11001 Sep 03 23:15	0°♏	
	11001 Sep 29 21:18	0°♐	
desc. node	11001 Oct 18 08:42	20°♐15'02	
	11001 Oct 27 18:26	0°♑	
evening max el	11001 Nov 04 06:26	7°♑24'40	45°50'04
	11001 Dec 01 19:47	0°♒	
greatest brilliancy	11001 Dec 13 08:40	5°♒39'36	-4.7m
retrograde	11001 Dec 23 01:48	7°♒21'58	
evening set	11002 Jan 08 15:16	2°♒09'03	
	11002 Jan 12 04:21	30°℞♑	
inferior conj	11002 Jan 13 10:24	29°♑12'50	-5°49'48
minimum elong	11002 Jan 13 20:27	28°♑57'02	5°46'57
min. Earth dist.	11002 Jan 14 01:36	28°♑48'57	0.28657 AU
morning rise	11002 Jan 19 01:20	25°♑47'38	
direct	11002 Feb 03 19:50	20°♑58'33	
asc. node	11002 Feb 08 09:39	21°♑22'42	
greatest brilliancy	11002 Feb 14 19:17	23°♑11'11	-4.8m
	11002 Feb 27 07:04	0°♒	
morning max el	11002 Mar 25 13:57	22°♒38'53	46°19'43
	11002 Apr 01 19:32	0°♓	
	11002 Apr 29 03:07	0°♈	
	11002 May 24 17:24	0°♉	
desc. node	11002 May 31 06:40	7°♉51'28	
	11002 Jun 18 12:48	0°♊	
	11002 Jul 12 22:46	0°♋	
	11002 Aug 06 04:43	0°♌	

	11002 Aug 30 09:43	0°♍	
asc. node	11002 Sep 21 00:30	26°♍46'28	
	11002 Sep 23 15:00	0°♎	
morning set	11002 Sep 27 04:47	4°♎25'33	
	11002 Oct 17 20:45	0°♏	
superior conj	11002 Nov 03 16:20	20°♏47'45	1°21'11
minimum elong	11002 Nov 03 10:08	20°♏28'36	1°21'32
max. Earth dist.	11002 Nov 05 01:32	22°♏30'19	1.73046 AU
	11002 Nov 11 03:08	0°♐	
	11002 Dec 05 10:48	0°♑	
evening rise	11002 Dec 10 10:02	6°♑06'53	
	11002 Dec 29 20:34	0°♒	
desc. node	11003 Jan 10 16:48	14°♒30'44	
	11003 Jan 23 08:37	0°♓	
	11003 Feb 16 22:36	0°♈	
	11003 Mar 13 14:48	0°♉	
	11003 Apr 07 11:53	0°♊	
	11003 May 02 21:05	0°♋	
asc. node	11003 May 03 14:28	0°♋50'25	
	11003 May 29 11:49	0°♌	
evening max el	11003 Jun 12 10:12	14°♌34'36	46°50'55
	11003 Jun 28 21:40	0°♍	
greatest brilliancy	11003 Jul 22 04:54	15°♍08'44	-4.9m
retrograde	11003 Aug 01 18:58	17°♍14'34	
evening set	11003 Aug 16 12:46	12°♍59'16	
inferior conj	11003 Aug 22 18:08	9°♍18'58	0°12'55
minimum elong	11003 Aug 22 18:37	9°♍18'13	0°12'29
transit middle	11003 Aug 22 18:37	9°♍18'13	0°12'29
transit begin	11003 Aug 22 15:57	9°♍22'19	
transit end	11003 Aug 22 21:18	9°♍14'06	
min. Earth dist.	11003 Aug 22 08:56	9°♍33'08	0.27376 AU
desc. node	11003 Aug 23 14:19	8°♍47'56	
morning rise	11003 Aug 29 00:58	5°♍37'28	
direct	11003 Sep 12 14:18	1°♍30'17	
greatest brilliancy	11003 Sep 22 08:51	3°♍14'42	-4.8m
	11003 Oct 29 18:20	0°♎	
morning max el	11003 Oct 31 16:04	1°♎49'11	45°55'46
	11003 Nov 27 21:57	0°♏	
asc. node	11003 Dec 14 13:24	18°♏32'26	
	11003 Dec 24 13:43	0°♐	
	11004 Jan 19 02:49	0°♑	
	11004 Feb 13 01:02	0°♒	
	11004 Mar 08 14:09	0°♓	
	11004 Apr 01 21:03	0°♈	
desc. node	11004 Apr 04 06:33	2°♈58'28	
	11004 Apr 25 23:13	0°♉	
morning set	11004 Apr 29 04:34	4°♉01'45	
	11004 May 19 21:57	0°♊	
superior conj	11004 Jun 08 13:39	24°♊41'30	-1°25'00
minimum elong	11004 Jun 08 19:22	24°♊59'27	1°25'33
max. Earth dist.	11004 Jun 08 07:59	24°♊23'43	1.71317 AU
	11004 Jun 12 19:02	0°♋	
	11004 Jul 06 16:32	0°♌	
evening rise	11004 Jul 18 22:50	15°♌21'21	
asc. node	11004 Jul 25 23:51	24°♌09'25	
	11004 Jul 30 16:11	0°♍	
	11004 Aug 23 19:21	0°♎	
	11004 Sep 17 03:33	0°♏	
	11004 Oct 11 19:28	0°♐	
	11004 Nov 05 23:26	0°♑	
desc. node	11004 Nov 14 19:18	10°♑19'39	
	11004 Dec 01 22:25	0°♒	
	11004 Dec 29 07:22	0°♓	
evening max el	11005 Jan 14 13:18	16°♓26'57	45°59'42
	11005 Jan 29 12:34	0°♈	
greatest brilliancy	11005 Feb 22 22:56	15°♈21'17	-4.8m
retrograde	11005 Mar 04 19:50	17°♈09'47	
asc. node	11005 Mar 07 20:09	16°♈58'47	
evening set	11005 Mar 19 15:38	12°♈50'46	
inferior conj	11005 Mar 25 16:38	9°♈15'58	4°22'01
minimum elong	11005 Mar 25 07:37	9°♈29'54	4°19'27
min. Earth dist.	11005 Mar 25 18:37	9°♈12'52	0.27551 AU
morning rise	11005 Mar 30 23:14	6°♈05'36	
direct	11005 Apr 15 14:40	1°♈15'59	
greatest brilliancy	11005 Apr 25 21:51	3°♈15'35	-4.9m
	11005 Jun 01 00:46	0°♉	
morning max el	11005 Jun 05 02:10	4°♉01'16	46°57'03
desc. node	11005 Jun 27 18:43	28°♉15'00	
	11005 Jun 29 08:16	0°♊	
	11005 Jul 25 08:29	0°♋	
	11005 Aug 19 12:24	0°♌	
	11005 Sep 13 07:50	0°♍	
	11005 Oct 07 23:12	0°♎	
asc. node	11005 Oct 18 13:52	12°♎58'04	
	11005 Nov 01 11:41	0°♏	
	11005 Nov 25 21:44	0°♐	
morning set	11005 Dec 05 12:13	11°♐49'23	
	11005 Dec 20 06:04	0°♑	
max. Earth dist.	11006 Jan 10 13:45	26°♑18'15	1.73113 AU
superior conj	11006 Jan 11 05:22	27°♑06'26	0°59'18
minimum elong	11006 Jan 11 15:10	27°♑36'41	0°59'31
	11006 Jan 13 13:36	0°♒	
	11006 Feb 06 20:39	0°♓	
desc. node	11006 Feb 07 05:43	0°♓27'59	
evening rise	11006 Feb 18 05:17	14°♓02'33	
	11006 Mar 03 02:53	0°♈	
	11006 Mar 27 07:58	0°♉	
	11006 Apr 20 12:39	0°♊	
	11006 May 14 19:16	0°♋	
asc. node	11006 May 31 01:27	19°♋56'21	
	11006 Jun 08 07:48	0°♌	
	11006 Jul 03 08:27	0°♍	
	11006 Jul 29 09:31	0°♎	
evening max el	11006 Aug 22 21:30	26°♎00'55	46°20'45
	11006 Aug 26 23:26	0°♏	
desc. node	11006 Sep 20 00:33	19°♏51'24	
greatest brilliancy	11006 Sep 30 19:03	25°♏27'40	-4.8m
retrograde	11006 Oct 11 17:10	27°♏38'21	
evening set	11006 Oct 29 03:16	21°♏50'30	
min. Earth dist.	11006 Nov 01 13:27	19°♏44'15	0.28832 AU
inferior conj	11006 Nov 02 04:01	19°♏21'27	-8°10'36
minimum elong	11006 Nov 01 21:12	19°♏32'07	8°09'27
morning rise	11006 Nov 05 15:22	17°♏13'02	
direct	11006 Nov 23 12:59	11°♏12'06	
greatest brilliancy	11006 Dec 03 10:02	12°♏58'41	-4.7m
	11006 Dec 30 00:34	0°♐	
asc. node	11007 Jan 11 00:54	10°♐57'46	
morning max el	11007 Jan 11 11:35	11°♐23'34	45°43'49
	11007 Jan 29 15:58	0°♑	
	11007 Feb 25 12:57	0°♒	
	11007 Mar 23 01:02	0°♓	
	11007 Apr 16 20:24	0°♈	
desc. node	11007 May 02 19:47	19°♈36'24	
	11007 May 11 05:42	0°♉	
	11007 Jun 04 08:43	0°♊	
	11007 Jun 28 08:25	0°♋	
morning set	11007 Jul 14 14:51	20°♋22'32	
	11007 Jul 22 07:21	0°♌	
	11007 Aug 15 07:17	0°♍	
superior conj	11007 Aug 22 22:20	9°♍30'56	-0°01'30

minimum elong	11007 Aug 22 22:46	9°♍32'18	0°01'45
behind sun begin	11007 Aug 21 22:24	8°♍16'17	
behind sun end	11007 Aug 23 23:09	10°♍48'17	
asc. node	11007 Aug 23 12:56	10°♍16'28	
max. Earth dist.	11007 Aug 25 16:13	12°♍56'16	1.72074 AU
	11007 Sep 08 09:07	0°♎	
evening rise	11007 Sep 30 02:24	26°♎57'21	
	11007 Oct 02 13:25	0°♏	
	11007 Oct 26 21:04	0°♐	
	11007 Nov 20 09:33	0°♑	
desc. node	11007 Dec 13 06:41	27°♑42'10	
	11007 Dec 15 04:31	0°♒	
	11008 Jan 09 07:29	0°♓	
	11008 Feb 03 21:01	0°♈	
	11008 Mar 01 05:20	0°♉	
evening max el	11008 Mar 28 02:07	28°♉31'35	46°36'47
	11008 Mar 29 13:50	0°♊	
asc. node	11008 Apr 04 06:09	5°♊28'16	
greatest brilliancy	11008 May 07 13:23	29°♊00'43	-4.9m
	11008 May 10 22:28	0°♋	
retrograde	11008 May 17 04:41	0°♋45'14	
	11008 May 23 06:35	30°℞♊	
evening set	11008 Jun 04 06:42	24°♊31'19	
inferior conj	11008 Jun 06 19:53	22°♊57'39	9°02'33
minimum elong	11008 Jun 07 00:33	22°♊50'27	9°01'37
min. Earth dist.	11008 Jun 07 01:38	22°♊48'46	0.27179 AU
morning rise	11008 Jun 09 18:26	21°♊09'58	
direct	11008 Jun 27 13:41	15°♊08'05	
greatest brilliancy	11008 Jul 07 08:31	16°♊56'36	-4.9m
desc. node	11008 Jul 25 05:47	27°♊20'56	
	11008 Jul 28 14:47	0°♋	
morning max el	11008 Aug 16 20:13	17°♋34'32	46°41'44
	11008 Aug 28 21:56	0°♌	
	11008 Sep 25 02:19	0°♍	
	11008 Oct 21 00:39	0°♎	
asc. node	11008 Nov 15 02:55	29°♎44'19	
	11008 Nov 15 08:10	0°♏	
	11008 Dec 10 06:00	0°♐	
	11009 Jan 03 20:56	0°♑	
	11009 Jan 28 07:07	0°♒	
morning set	11009 Feb 12 11:57	18°♒45'43	
	11009 Feb 21 13:59	0°♓	
desc. node	11009 Mar 06 18:57	16°♓22'26	
	11009 Mar 17 18:03	0°♈	
max. Earth dist.	11009 Mar 20 00:08	2°♈48'17	1.72150 AU
superior conj	11009 Mar 23 08:34	6°♈58'34	-0°38'54
minimum elong	11009 Mar 22 23:51	6°♈31'26	0°38'32
	11009 Apr 10 19:27	0°♉	
evening rise	11009 May 01 20:34	26°♉20'05	
	11009 May 04 18:48	0°♊	
	11009 May 28 17:37	0°♋	
	11009 Jun 21 18:13	0°♌	
asc. node	11009 Jun 27 13:16	7°♌12'18	
	11009 Jul 15 23:09	0°♍	
	11009 Aug 09 11:31	0°♎	
	11009 Sep 03 12:26	0°♏	
	11009 Sep 29 12:24	0°♐	
desc. node	11009 Oct 17 10:38	19°♐33'09	
	11009 Oct 27 14:40	0°♑	
evening max el	11009 Nov 01 20:20	5°♑08'23	45°50'30
	11009 Dec 03 05:42	0°♒	
greatest brilliancy	11009 Dec 11 00:13	3°♒27'48	-4.7m
retrograde	11009 Dec 20 16:38	5°♒10'03	
evening set	11010 Jan 06 09:42	29°♑52'30	
	11010 Jan 06 04:32	30°℞♑	
inferior conj	11010 Jan 11 02:09	27°♑00'22	-6°04'51
minimum elong	11010 Jan 11 12:17	26°♑44'27	6°02'04
min. Earth dist.	11010 Jan 11 17:31	26°♑36'12	0.28696 AU
morning rise	11010 Jan 16 14:28	23°♑38'39	
direct	11010 Feb 01 11:16	18°♑45'32	
asc. node	11010 Feb 07 11:43	19°♑26'49	
greatest brilliancy	11010 Feb 12 11:47	20°♑58'42	-4.8m
	11010 Feb 28 02:16	0°♒	
morning max el	11010 Mar 23 04:26	20°♒21'01	46°18'19
	11010 Apr 01 14:57	0°♓	
	11010 Apr 28 18:07	0°♈	
	11010 May 24 06:38	0°♉	
desc. node	11010 May 30 08:42	7°♉18'42	
	11010 Jun 18 01:07	0°♊	
	11010 Jul 12 10:32	0°♋	
	11010 Aug 05 16:08	0°♌	
	11010 Aug 29 20:53	0°♍	
asc. node	11010 Sep 20 02:19	26°♍18'01	
	11010 Sep 23 02:00	0°♎	
morning set	11010 Sep 24 20:05	2°♎10'20	
	11010 Oct 17 07:37	0°♏	
superior conj	11010 Nov 01 09:10	18°♏38'05	1°20'00
minimum elong	11010 Nov 01 02:24	18°♏17'08	1°20'19
max. Earth dist.	11010 Nov 02 17:38	20°♏18'24	1.73025 AU
	11010 Nov 10 13:56	0°♐	
	11010 Dec 04 21:39	0°♑	
evening rise	11010 Dec 08 02:39	3°♑56'55	
	11010 Dec 29 07:35	0°♒	
desc. node	11011 Jan 09 18:49	14°♒02'47	
	11011 Jan 22 19:56	0°♓	
	11011 Feb 16 10:20	0°♈	
	11011 Mar 13 03:07	0°♉	
	11011 Apr 07 01:06	0°♊	
	11011 May 02 11:59	0°♋	
asc. node	11011 May 02 16:28	0°♋12'59	
	11011 May 29 06:32	0°♌	
evening max el	11011 Jun 09 23:22	12°♌10'33	46°51'23
	11011 Jun 29 07:45	0°♍	
greatest brilliancy	11011 Jul 19 20:01	12°♍48'12	-4.9m
retrograde	11011 Jul 30 09:06	14°♍53'36	
evening set	11011 Aug 14 03:38	10°♍36'47	
inferior conj	11011 Aug 20 07:55	6°♍58'27	0°36'08
minimum elong	11011 Aug 20 09:18	6°♍56'19	0°35'23
min. Earth dist.	11011 Aug 19 23:53	7°♍10'47	0.27345 AU
desc. node	11011 Aug 22 16:15	5°♍32'30	
morning rise	11011 Aug 26 15:22	3°♍16'21	
	11011 Sep 03 16:25	30°℞♌	
direct	11011 Sep 10 03:22	29°♌09'48	
	11011 Sep 16 19:46	0°♍	
greatest brilliancy	11011 Sep 19 23:16	0°♍55'35	-4.8m
morning max el	11011 Oct 29 06:51	29°♍33'29	45°57'00
	11011 Oct 29 17:52	0°♎	
	11011 Nov 27 14:06	0°♏	
asc. node	11011 Dec 13 15:27	17°♏57'35	
	11011 Dec 24 03:15	0°♐	
	11012 Jan 18 15:07	0°♑	
	11012 Feb 12 12:42	0°♒	
	11012 Mar 08 01:28	0°♓	
	11012 Apr 01 08:11	0°♈	
desc. node	11012 Apr 03 08:20	2°♈29'27	
	11012 Apr 25 10:15	0°♉	
morning set	11012 Apr 26 15:51	1°♉32'30	
	11012 May 19 08:55	0°♊	
max. Earth dist.	11012 Jun 05 16:56	21°♊46'37	1.71316 AU
superior conj	11012 Jun 06 01:13	22°♊12'40	-1°25'52
minimum elong	11012 Jun 06 05:58	22°♊27'36	1°26'27

	11012 Jun 12 05:57	0°♋	
	11012 Jul 06 03:27	0°♌	
evening rise	11012 Jul 16 11:05	12°♌55'24	
asc. node	11012 Jul 25 01:45	23°♌41'10	
	11012 Aug 23 06:26	0°♎	
	11012 Sep 16 14:54	0°♏	
	11012 Oct 11 07:18	0°♐	
	11012 Nov 05 12:09	0°♑	
desc. node	11012 Nov 13 21:17	9°♑47'14	
	11012 Dec 01 12:52	0°♒	
	11012 Dec 29 01:45	0°♓	
evening max el	11013 Jan 12 04:37	14°♓12'39	45°58'46
	11013 Jan 29 22:37	0°♈	
greatest brilliancy	11013 Feb 20 11:56	13°♈00'36	-4.8m
retrograde	11013 Mar 02 10:00	14°♈49'36	
asc. node	11013 Mar 06 22:01	14°♈24'59	
evening set	11013 Mar 17 03:52	10°♈32'42	
inferior conj	11013 Mar 23 06:32	6°♈55'17	4°01'21
minimum elong	11013 Mar 22 22:04	7°♈08'22	3°58'54
min. Earth dist.	11013 Mar 23 08:42	6°♈51'56	0.27574 AU
morning rise	11013 Mar 28 15:59	3°♈41'01	
	11013 Apr 05 23:32	30°♓℞	
direct	11013 Apr 13 05:32	28°♓55'00	
	11013 Apr 20 17:16	0°♈	
greatest brilliancy	11013 Apr 23 12:28	0°♈54'48	-4.9m
	11013 Jun 01 00:23	0°♉	
morning max el	11013 Jun 02 17:20	1°♉42'20	46°56'31
desc. node	11013 Jun 26 20:43	27°♉33'41	
	11013 Jun 29 00:46	0°♊	
	11013 Jul 24 22:25	0°♋	
	11013 Aug 19 01:02	0°♌	
	11013 Sep 12 19:40	0°♍	
	11013 Oct 07 10:30	0°♎	
asc. node	11013 Oct 17 15:46	12°♎29'46	
	11013 Oct 31 22:39	0°♏	
	11013 Nov 25 08:31	0°♐	
morning set	11013 Dec 03 05:28	9°♐41'40	
	11013 Dec 19 16:47	0°♑	
superior conj	11014 Jan 08 21:53	24°♑56'14	1°01'41
minimum elong	11014 Jan 09 07:40	25°♑26'25	1°01'56
max. Earth dist.	11014 Jan 08 09:17	24°♑17'24	1.73128 AU
	11014 Jan 13 00:19	0°♒	
desc. node	11014 Feb 06 07:32	0°♓00'17	
	11014 Feb 06 07:26	0°♓	
evening rise	11014 Feb 15 20:24	11°♓47'22	
	11014 Mar 02 13:49	0°♈	
	11014 Mar 26 19:08	0°♉	
	11014 Apr 20 00:08	0°♊	
	11014 May 14 07:12	0°♋	
asc. node	11014 May 30 03:29	19°♋24'59	
	11014 Jun 07 20:24	0°♌	
	11014 Jul 02 22:14	0°♍	
	11014 Jul 29 01:47	0°♎	
evening max el	11014 Aug 20 13:49	23°♎48'23	46°22'10
	11014 Aug 26 23:24	0°♏	
desc. node	11014 Sep 19 02:28	18°♏32'51	
greatest brilliancy	11014 Sep 28 10:21	23°♏15'28	-4.8m
retrograde	11014 Oct 09 09:19	25°♏26'41	
evening set	11014 Oct 26 16:00	19°♏44'05	
min. Earth dist.	11014 Oct 30 04:10	17°♏34'49	0.28794 AU
inferior conj	11014 Oct 30 19:52	17°♏10'14	-8°03'15
minimum elong	11014 Oct 30 12:28	17°♏21'50	8°01'59
morning rise	11014 Nov 03 09:12	14°♏58'48	
direct	11014 Nov 21 05:02	9°♏01'48	
greatest brilliancy	11014 Nov 30 23:59	10°♏46'37	-4.7m
	11014 Dec 30 04:41	0°♐	
morning max el	11015 Jan 09 02:39	9°♐10'49	45°43'10
asc. node	11015 Jan 10 02:53	10°♐09'35	
	11015 Jan 29 08:53	0°♑	
	11015 Feb 25 02:46	0°♒	
	11015 Mar 22 13:30	0°♓	
	11015 Apr 16 08:10	0°♈	
desc. node	11015 May 01 21:48	19°♈07'10	
	11015 May 10 17:04	0°♉	
	11015 Jun 03 19:51	0°♊	
	11015 Jun 27 19:24	0°♋	
morning set	11015 Jul 12 03:19	17°♋57'14	
	11015 Jul 21 18:12	0°♌	
	11015 Aug 14 18:01	0°♍	
superior conj	11015 Aug 20 12:05	7°♍10'42	-0°05'10
minimum elong	11015 Aug 20 13:24	7°♍14'50	0°05'25
behind sun begin	11015 Aug 19 14:04	6°♍02'01	
behind sun end	11015 Aug 21 12:45	8°♍27'38	
asc. node	11015 Aug 22 14:45	9°♍48'42	
max. Earth dist.	11015 Aug 23 07:46	10°♍41'46	1.72029 AU
	11015 Sep 07 19:47	0°♎	
evening rise	11015 Sep 27 18:31	24°♎45'35	
	11015 Oct 02 00:05	0°♏	
	11015 Oct 26 07:50	0°♐	
	11015 Nov 19 20:34	0°♑	
desc. node	11015 Dec 12 08:42	27°♑13'48	
	11015 Dec 14 16:00	0°♒	
	11016 Jan 08 19:47	0°♓	
	11016 Feb 03 10:44	0°♈	
	11016 Feb 29 21:46	0°♉	
evening max el	11016 Mar 25 15:00	26°♉07'27	46°35'28
	11016 Mar 29 13:49	0°♊	
asc. node	11016 Apr 03 08:12	4°♊30'43	
greatest brilliancy	11016 May 05 02:55	26°♊36'31	-4.9m
retrograde	11016 May 14 16:51	28°♊20'08	
evening set	11016 Jun 01 21:06	22°♊04'11	
inferior conj	11016 Jun 04 08:47	20°♊32'44	9°06'55
minimum elong	11016 Jun 04 12:31	20°♊26'59	9°06'08
min. Earth dist.	11016 Jun 04 14:31	20°♊23'54	0.27189 AU
morning rise	11016 Jun 07 03:55	18°♊50'00	
direct	11016 Jun 25 02:13	12°♊42'50	
greatest brilliancy	11016 Jul 04 21:48	14°♊31'37	-4.9m
desc. node	11016 Jul 24 07:44	26°♊07'32	
	11016 Jul 29 01:32	0°♋	
morning max el	11016 Aug 14 08:37	15°♋08'58	46°43'09
	11016 Aug 28 16:44	0°♌	
	11016 Sep 24 17:01	0°♍	
	11016 Oct 20 13:28	0°♎	
asc. node	11016 Nov 14 04:57	29°♎15'07	
	11016 Nov 14 19:56	0°♏	
	11016 Dec 09 17:09	0°♐	
	11017 Jan 03 07:43	0°♑	
	11017 Jan 27 17:44	0°♒	
morning set	11017 Feb 10 03:39	16°♒33'09	
	11017 Feb 21 00:34	0°♓	
desc. node	11017 Mar 05 20:47	15°♓55'12	
	11017 Mar 17 04:41	0°♈	
max. Earth dist.	11017 Mar 17 13:36	0°♈27'46	1.72198 AU
superior conj	11017 Mar 20 21:57	4°♈37'47	-0°35'33
minimum elong	11017 Mar 20 13:53	4°♈12'39	0°35'10
	11017 Apr 10 06:09	0°♉	
evening rise	11017 Apr 29 08:34	23°♉53'40	
	11017 May 04 05:35	0°♊	
	11017 May 28 04:32	0°♋	
	11017 Jun 21 05:20	0°♌	

asc. node	11017 Jun 26 15:09	6°♌43'29	
	11017 Jul 15 10:35	0°♍	
	11017 Aug 08 23:30	0°♎	
	11017 Sep 03 01:21	0°♏	
	11017 Sep 29 03:18	0°♐	
desc. node	11017 Oct 16 12:43	18°♐52'24	
	11017 Oct 27 11:02	0°♑	
evening max el	11017 Oct 30 10:26	2°♑53'59	45°51'09
	11017 Dec 05 07:25	0°♒	
greatest brilliancy	11017 Dec 08 15:18	1°♒17'27	-4.7m
retrograde	11017 Dec 18 08:10	3°♒00'31	
	11017 Dec 30 17:34	30°℞♑	
evening set	11018 Jan 04 04:21	27°♑38'05	
inferior conj	11018 Jan 08 18:08	24°♑50'04	-6°19'04
minimum elong	11018 Jan 09 04:16	24°♑34'09	6°16'22
min. Earth dist.	11018 Jan 09 09:19	24°♑26'14	0.28736 AU
morning rise	11018 Jan 14 03:48	21°♑32'15	
direct	11018 Jan 30 03:03	16°♑34'42	
asc. node	11018 Feb 06 13:34	17°♑37'05	
greatest brilliancy	11018 Feb 10 04:25	18°♑48'32	-4.8m
	11018 Feb 28 15:42	0°♒	
morning max el	11018 Mar 20 19:48	18°♒06'47	46°16'41
	11018 Apr 01 09:22	0°♓	
	11018 Apr 28 08:36	0°♈	
	11018 May 23 19:29	0°♉	
desc. node	11018 May 29 10:39	6°♉46'33	
	11018 Jun 17 13:06	0°♊	
	11018 Jul 11 21:59	0°♋	
	11018 Aug 05 03:12	0°♌	
	11018 Aug 29 07:42	0°♍	
asc. node	11018 Sep 19 04:12	25°♍50'54	
morning set	11018 Sep 22 11:18	29°♍55'57	
	11018 Sep 22 12:37	0°♎	
	11018 Oct 16 18:06	0°♏	
superior conj	11018 Oct 30 02:06	16°♏29'47	1°18'43
minimum elong	11018 Oct 29 18:48	16°♏07'11	1°18'59
max. Earth dist.	11018 Oct 31 10:36	18°♏10'13	1.73004 AU
	11018 Nov 10 00:21	0°♐	
	11018 Dec 04 08:06	0°♑	
evening rise	11018 Dec 05 19:37	1°♑49'16	
	11018 Dec 28 18:11	0°♒	
desc. node	11019 Jan 08 20:39	13°♒35'42	
	11019 Jan 22 06:48	0°♓	
	11019 Feb 15 21:37	0°♈	
	11019 Mar 12 15:03	0°♉	
	11019 Apr 06 14:03	0°♊	
asc. node	11019 May 01 18:29	29°♊36'06	
	11019 May 02 02:46	0°♋	
	11019 May 29 01:32	0°♌	
evening max el	11019 Jun 07 13:21	9°♌49'11	46°51'45
	11019 Jun 29 21:08	0°♍	
greatest brilliancy	11019 Jul 17 10:28	10°♍27'04	-4.9m
retrograde	11019 Jul 27 23:30	12°♍32'28	
evening set	11019 Aug 11 18:28	8°♍13'58	
inferior conj	11019 Aug 17 21:23	4°♍37'46	0°59'28
minimum elong	11019 Aug 17 23:41	4°♍34'15	0°58'25
min. Earth dist.	11019 Aug 17 14:15	4°♍48'42	0.27312 AU
desc. node	11019 Aug 21 18:11	2°♍18'04	
morning rise	11019 Aug 24 05:19	0°♍55'32	
	11019 Aug 26 01:02	30°℞♌	
direct	11019 Sep 07 16:42	26°♌49'20	
greatest brilliancy	11019 Sep 17 12:51	28°♌35'57	-4.8m
	11019 Sep 21 01:40	0°♍	
morning max el	11019 Oct 26 21:59	27°♍19'35	45°58'20
	11019 Oct 29 15:59	0°♎	
	11019 Nov 27 05:32	0°♏	
asc. node	11019 Dec 12 17:17	17°♏23'36	
	11019 Dec 23 16:14	0°♐	
	11020 Jan 18 02:55	0°♑	
	11020 Feb 11 23:53	0°♒	
	11020 Mar 07 12:19	0°♓	
	11020 Mar 31 18:53	0°♈	
desc. node	11020 Apr 02 10:21	2°♈02'32	
morning set	11020 Apr 24 03:28	29°♈05'38	
	11020 Apr 24 20:52	0°♉	
	11020 May 18 19:31	0°♊	
max. Earth dist.	11020 Jun 03 02:28	19°♊12'19	1.71323 AU
superior conj	11020 Jun 03 12:39	19°♊44'17	-1°26'34
minimum elong	11020 Jun 03 16:24	19°♊56'05	1°27'10
	11020 Jun 11 16:36	0°♋	
	11020 Jul 05 14:08	0°♌	
evening rise	11020 Jul 13 22:49	10°♌28'28	
asc. node	11020 Jul 24 03:34	23°♌13'22	
	11020 Jul 29 13:54	0°♍	
	11020 Aug 22 17:17	0°♎	
	11020 Sep 16 01:59	0°♏	
	11020 Oct 10 18:52	0°♐	
	11020 Nov 05 00:37	0°♑	
desc. node	11020 Nov 12 23:17	9°♑15'42	
	11020 Dec 01 03:06	0°♒	
	11020 Dec 28 20:09	0°♓	
evening max el	11021 Jan 09 20:24	12°♓00'52	45°57'55
	11021 Jan 30 11:16	0°♈	
greatest brilliancy	11021 Feb 18 01:45	10°♈42'56	-4.8m
retrograde	11021 Feb 28 00:10	12°♈31'41	
asc. node	11021 Mar 06 00:04	11°♈48'05	
evening set	11021 Mar 14 16:43	8°♈16'53	
inferior conj	11021 Mar 20 20:46	4°♈37'07	3°40'34
minimum elong	11021 Mar 20 12:55	4°♈49'17	3°38'16
min. Earth dist.	11021 Mar 20 23:13	4°♈33'19	0.27596 AU
morning rise	11021 Mar 26 08:52	1°♈19'00	
	11021 Mar 28 20:28	30°℞♓	
direct	11021 Apr 10 20:42	26°♓36'43	
greatest brilliancy	11021 Apr 21 03:18	28°♓36'18	-4.9m
	11021 Apr 24 11:02	0°♈	
morning max el	11021 May 31 07:38	29°♈22'41	46°55'39
	11021 May 31 22:27	0°♉	
desc. node	11021 Jun 25 22:37	26°♉53'40	
	11021 Jun 28 16:35	0°♊	
	11021 Jul 24 11:58	0°♋	
	11021 Aug 18 13:24	0°♌	
	11021 Sep 12 07:18	0°♍	
	11021 Oct 06 21:36	0°♎	
asc. node	11021 Oct 16 17:46	12°♎02'21	
	11021 Oct 31 09:24	0°♏	
	11021 Nov 24 19:02	0°♐	
morning set	11021 Nov 30 22:32	7°♐34'07	
	11021 Dec 19 03:13	0°♑	
max. Earth dist.	11022 Jan 06 03:24	22°♑13'00	1.73139 AU
superior conj	11022 Jan 06 14:29	22°♑47'12	1°03'58
minimum elong	11022 Jan 07 00:12	23°♑17'11	1°04'16
	11022 Jan 12 10:46	0°♒	
desc. node	11022 Feb 05 09:25	29°♒33'35	
	11022 Feb 05 17:58	0°♓	
evening rise	11022 Feb 13 11:42	9°♓33'38	
	11022 Mar 02 00:30	0°♈	
	11022 Mar 26 06:02	0°♉	
	11022 Apr 19 11:21	0°♊	
	11022 May 13 18:52	0°♋	
asc. node	11022 May 29 05:24	18°♋54'04	
	11022 Jun 07 08:47	0°♌	

	11022 Jul 02	11:54	0°♍			
	11022 Jul 28	18:12	0°♎			
evening max el	11022 Aug 18	05:12	21°♎33'22	46°23'19		
	11022 Aug 27	00:37	0°♏			
desc. node	11022 Sep 18	04:35	17°♏11'38			
greatest brilliancy	11022 Sep 26	02:09	21°♏03'10	-4.8m		
retrograde	11022 Oct 07	00:48	23°♏14'09			
evening set	11022 Oct 24	04:23	17°♏37'08			
inferior conj	11022 Oct 28	11:28	14°♏58'23	-7°55'11		
minimum elong	11022 Oct 28	03:31	15°♏10'51	7°53'46		
min. Earth dist.	11022 Oct 27	19:05	15°♏24'04	0.28750 AU		
morning rise	11022 Nov 01	02:55	12°♏43'38			
direct	11022 Nov 18	20:24	6°♏50'53			
greatest brilliancy	11022 Nov 28	14:14	8°♏34'27	-4.7m		
	11022 Dec 30	07:03	0°♐			
morning max el	11023 Jan 06	16:30	6°♐55'22	45°42'44		
asc. node	11023 Jan 09	04:49	9°♐22'20			
	11023 Jan 29	01:17	0°♑			
	11023 Feb 24	16:16	0°♒			
	11023 Mar 22	01:43	0°♓			
	11023 Apr 15	19:42	0°♈			
desc. node	11023 Apr 30	23:41	18°♈38'06			
	11023 May 10	04:14	0°♉			
	11023 Jun 03	06:47	0°♊			
	11023 Jun 27	06:10	0°♋			
morning set	11023 Jul 09	16:04	15°♋33'20			
	11023 Jul 21	04:51	0°♌			
	11023 Aug 14	04:37	0°♍			
superior conj	11023 Aug 18	01:53	4°♍51'01	-0°08'49		
minimum elong	11023 Aug 18	04:06	4°♍57'56	0°09'02		
behind sun begin	11023 Aug 17	07:29	3°♍53'35			
behind sun end	11023 Aug 19	00:44	6°♍02'17			
max. Earth dist.	11023 Aug 20	21:49	8°♍22'52	1.71992 AU		
asc. node	11023 Aug 21	16:43	9°♍21'46			
	11023 Sep 07	06:23	0°♎			
evening rise	11023 Sep 25	10:22	22°♎33'02			
	11023 Oct 01	10:44	0°♏			
	11023 Oct 25	18:38	0°♐			
	11023 Nov 19	07:38	0°♑			
desc. node	11023 Dec 11	10:31	26°♑44'46			
	11023 Dec 14	03:33	0°♒			
	11024 Jan 08	08:09	0°♓			
	11024 Feb 03	00:33	0°♈			
	11024 Feb 29	14:31	0°♉			
evening max el	11024 Mar 23	03:11	23°♉41'49	46°34'14		
	11024 Mar 29	14:58	0°♊			
asc. node	11024 Apr 02	10:16	3°♊32'00			
greatest brilliancy	11024 May 02	16:28	24°♊12'39	-4.9m		
retrograde	11024 May 12	05:21	25°♊55'49			
evening set	11024 May 30	11:06	19°♊38'18			
inferior conj	11024 Jun 01	21:50	18°♊08'23	9°10'18		
minimum elong	11024 Jun 02	00:35	18°♊04'09	9°09'36		
min. Earth dist.	11024 Jun 02	03:30	17°♊59'38	0.27199 AU		
morning rise	11024 Jun 04	14:02	16°♊30'03			
direct	11024 Jun 22	14:38	10°♊17'59			
greatest brilliancy	11024 Jul 02	11:21	12°♊07'30	-4.9m		
desc. node	11024 Jul 23	09:40	24°♊56'35			
	11024 Jul 29	09:15	0°♋			
morning max el	11024 Aug 11	21:28	12°♋44'43	46°44'34		
	11024 Aug 28	10:57	0°♌			
	11024 Sep 24	07:30	0°♍			
	11024 Oct 20	02:16	0°♎			
asc. node	11024 Nov 13	06:46	28°♎44'59			
	11024 Nov 14	07:47	0°♏			
	11024 Dec 09	04:26	0°♐			
	11025 Jan 02	18:40	0°♑			
	11025 Jan 27	04:29	0°♒			
morning set	11025 Feb 07	19:13	14°♒19'48			
	11025 Feb 20	11:15	0°♓			
desc. node	11025 Mar 04	22:44	15°♓28'01			
max. Earth dist.	11025 Mar 15	05:53	28°♓15'45	1.72243 AU		
	11025 Mar 16	15:24	0°♈			
superior conj	11025 Mar 18	11:17	2°♈16'31	-0°32'08		
minimum elong	11025 Mar 18	03:54	1°♈53'31	0°31'45		
	11025 Apr 09	16:58	0°♉			
evening rise	11025 Apr 26	20:49	21°♉27'42			
	11025 May 03	16:30	0°♊			
	11025 May 27	15:35	0°♋			
	11025 Jun 20	16:34	0°♌			
asc. node	11025 Jun 25	17:01	6°♌14'11			
	11025 Jul 14	22:09	0°♍			
	11025 Aug 08	11:35	0°♎			
	11025 Sep 02	14:27	0°♏			
	11025 Sep 28	18:33	0°♐			
desc. node	11025 Oct 15	14:40	18°♐10'08			
	11025 Oct 27	08:26	0°♑			
evening max el	11025 Oct 28	01:00	0°♑40'05	45°51'39		
greatest brilliancy	11025 Dec 06	05:43	29°♑05'11	-4.7m		
	11025 Dec 09	08:43	0°♒			
retrograde	11025 Dec 16	00:02	0°♒49'31			
	11025 Dec 22	10:24	30°℞♑			
evening set	11026 Jan 01	22:51	25°♑22'09			
inferior conj	11026 Jan 06	09:54	22°♑38'13	-6°32'52		
minimum elong	11026 Jan 06	20:00	22°♑22'23	6°30'15		
min. Earth dist.	11026 Jan 07	00:33	22°♑15'15	0.28776 AU		
morning rise	11026 Jan 11	16:50	19°♑24'38			
direct	11026 Jan 27	19:03	14°♑22'23			
asc. node	11026 Feb 05	15:38	15°♑50'05			
greatest brilliancy	11026 Feb 07	20:25	16°♑36'28	-4.8m		
	11026 Mar 01	02:08	0°♒			
morning max el	11026 Mar 18	11:49	15°♒53'24	46°15'08		
	11026 Apr 01	03:38	0°♓			
	11026 Apr 27	23:10	0°♈			
	11026 May 23	08:28	0°♉			
desc. node	11026 May 28	12:28	6°♉13'33			
	11026 Jun 17	01:15	0°♊			
	11026 Jul 11	09:37	0°♋			
	11026 Aug 04	14:29	0°♌			
	11026 Aug 28	18:43	0°♍			
asc. node	11026 Sep 18	06:10	25°♍23'24			
morning set	11026 Sep 20	02:45	27°♍41'33			
	11026 Sep 21	23:26	0°♎			
	11026 Oct 16	04:48	0°♏			
superior conj	11026 Oct 27	19:04	14°♏20'50	1°17'19		
minimum elong	11026 Oct 27	11:16	13°♏56'41	1°17'33		
max. Earth dist.	11026 Oct 29	05:51	16°♏08'23	1.72985 AU		
	11026 Nov 09	11:01	0°♐			
evening rise	11026 Dec 03	12:35	29°♐40'40			
	11026 Dec 03	18:52	0°♑			
	11026 Dec 28	05:08	0°♒			
desc. node	11027 Jan 07	22:34	13°♒07'44			
	11027 Jan 21	18:04	0°♓			
	11027 Feb 15	09:20	0°♈			
	11027 Mar 12	03:24	0°♉			
	11027 Apr 06	03:27	0°♊			
asc. node	11027 Apr 30	20:22	28°♊57'32			
	11027 May 01	18:07	0°♋			
	11027 May 28	21:29	0°♌			
evening max el	11027 Jun 05	04:03	7°♌28'38	46°52'04		
	11027 Jun 30	15:42	0°♍			
greatest brilliancy	11027 Jul 15	00:45	8°♍04'42	-4.9m		

retrograde	11027 Jul 25 13:58	10°♍09'58	
evening set	11027 Aug 09 09:29	5°♍49'49	
inferior conj	11027 Aug 15 10:47	2°♍15'44	1°22'56
minimum elong	11027 Aug 15 13:58	2°♍10'52	1°21'34
min. Earth dist.	11027 Aug 15 04:18	2°♍25'40	0.27278 AU
	11027 Aug 19 05:02	30°℞♌	
desc. node	11027 Aug 20 20:18	29°♌04'17	
morning rise	11027 Aug 21 18:58	28°♌33'37	
direct	11027 Sep 05 06:24	24°♌27'47	
greatest brilliancy	11027 Sep 15 01:48	26°♌14'23	-4.8m
	11027 Sep 23 06:37	0°♍	
morning max el	11027 Oct 24 12:58	25°♍04'24	45°59'42
	11027 Oct 29 13:34	0°♎	
	11027 Nov 26 21:02	0°♏	
asc. node	11027 Dec 11 19:16	16°♏49'16	
	11027 Dec 23 05:26	0°♐	
	11028 Jan 17 15:03	0°♑	
	11028 Feb 11 11:27	0°♒	
	11028 Mar 06 23:37	0°♓	
	11028 Mar 31 06:00	0°♈	
desc. node	11028 Apr 01 12:14	1°♈33'51	
morning set	11028 Apr 21 14:52	26°♈36'55	
	11028 Apr 24 07:54	0°♉	
	11028 May 18 06:30	0°♊	
superior conj	11028 May 31 23:55	17°♊14'20	-1°27'07
minimum elong	11028 Jun 01 02:36	17°♊22'49	1°27'42
max. Earth dist.	11028 May 31 11:23	16°♊34'58	1.71326 AU
	11028 Jun 11 03:35	0°♋	
	11028 Jul 05 01:11	0°♌	
evening rise	11028 Jul 11 10:24	7°♌59'58	
asc. node	11028 Jul 23 05:34	22°♌45'02	
	11028 Jul 29 01:01	0°♍	
	11028 Aug 22 04:31	0°♎	
	11028 Sep 15 13:28	0°♏	
	11028 Oct 10 06:50	0°♐	
	11028 Nov 04 13:32	0°♑	
desc. node	11028 Nov 12 01:10	8°♑42'35	
	11028 Nov 30 17:54	0°♒	
	11028 Dec 28 15:33	0°♓	
evening max el	11029 Jan 07 11:25	9°♓45'59	45°56'50
	11029 Jan 31 05:12	0°♈	
greatest brilliancy	11029 Feb 15 15:57	8°♈23'56	-4.8m
retrograde	11029 Feb 25 13:36	10°♈11'43	
asc. node	11029 Mar 05 02:07	9°♈03'25	
evening set	11029 Mar 12 05:34	5°♈58'46	
inferior conj	11029 Mar 18 10:49	2°♈16'59	3°19'15
minimum elong	11029 Mar 18 03:38	2°♈28'09	3°17'08
min. Earth dist.	11029 Mar 18 13:58	2°♈12'05	0.27622 AU
	11029 Mar 22 04:20	30°℞♓	
morning rise	11029 Mar 24 01:24	28°♓55'00	
direct	11029 Apr 08 11:09	24°♓16'18	
greatest brilliancy	11029 Apr 18 18:29	26°♓16'08	-4.9m
	11029 Apr 26 12:53	0°♈	
morning max el	11029 May 28 20:55	26°♈58'42	46°54'55
	11029 May 31 20:20	0°♉	
desc. node	11029 Jun 25 00:37	26°♉12'51	
	11029 Jun 28 08:39	0°♊	
	11029 Jul 24 01:48	0°♋	
	11029 Aug 18 02:04	0°♌	
	11029 Sep 11 19:14	0°♍	
	11029 Oct 06 09:03	0°♎	
asc. node	11029 Oct 15 19:33	11°♎33'12	
	11029 Oct 30 20:30	0°♏	
	11029 Nov 24 05:56	0°♐	
morning set	11029 Nov 28 15:44	5°♐25'50	
	11029 Dec 18 14:01	0°♑	
superior conj	11030 Jan 04 07:22	20°♑38'00	1°06'09
minimum elong	11030 Jan 04 16:58	21°♑07'36	1°06'27
max. Earth dist.	11030 Jan 03 20:50	20°♑05'30	1.73151 AU
	11030 Jan 11 21:33	0°♒	
desc. node	11030 Feb 04 11:24	29°♒06'08	
	11030 Feb 05 04:52	0°♓	
evening rise	11030 Feb 11 03:10	7°♓19'19	
	11030 Mar 01 11:34	0°♈	
	11030 Mar 25 17:23	0°♉	
	11030 Apr 18 23:03	0°♊	
	11030 May 13 07:02	0°♋	
asc. node	11030 May 28 07:17	18°♋21'32	
	11030 Jun 06 21:41	0°♌	
	11030 Jul 02 02:08	0°♍	
	11030 Jul 28 11:22	0°♎	
evening max el	11030 Aug 15 19:36	19°♎14'46	46°24'39
	11030 Aug 27 03:42	0°♏	
desc. node	11030 Sep 17 06:31	15°♏46'31	
greatest brilliancy	11030 Sep 23 18:10	18°♏50'06	-4.8m
retrograde	11030 Oct 04 16:09	21°♏00'55	
evening set	11030 Oct 21 16:45	15°♏29'19	
min. Earth dist.	11030 Oct 25 10:20	13°♏12'06	0.28706 AU
inferior conj	11030 Oct 26 03:07	12°♏45'47	-7°46'19
minimum elong	11030 Oct 25 18:41	12°♏59'01	7°44'46
morning rise	11030 Oct 29 20:52	10°♏27'30	
direct	11030 Nov 16 11:20	4°♏39'02	
greatest brilliancy	11030 Nov 26 05:07	6°♏22'06	-4.7m
	11030 Dec 30 08:20	0°♐	
morning max el	11031 Jan 04 06:10	4°♐38'34	45°42'29
asc. node	11031 Jan 08 06:50	8°♐35'09	
	11031 Jan 28 17:40	0°♑	
	11031 Feb 24 05:55	0°♒	
	11031 Mar 21 14:09	0°♓	
	11031 Apr 15 07:31	0°♈	
desc. node	11031 Apr 30 01:31	18°♈07'56	
	11031 May 09 15:43	0°♉	
	11031 Jun 02 18:05	0°♊	
	11031 Jun 26 17:18	0°♋	
morning set	11031 Jul 07 04:15	13°♋06'26	
	11031 Jul 20 15:51	0°♌	
	11031 Aug 13 15:31	0°♍	
superior conj	11031 Aug 15 15:18	2°♍29'09	-0°12'30
minimum elong	11031 Aug 15 18:25	2°♍38'51	0°12'41
behind sun begin	11031 Aug 15 02:57	1°♍50'35	
behind sun end	11031 Aug 16 09:53	3°♍27'07	
max. Earth dist.	11031 Aug 18 09:19	5°♍55'04	1.71949 AU
asc. node	11031 Aug 20 18:36	8°♍53'42	
	11031 Sep 06 17:15	0°♎	
evening rise	11031 Sep 23 02:03	20°♎19'12	
	11031 Sep 30 21:38	0°♏	
	11031 Oct 25 05:40	0°♐	
	11031 Nov 18 18:56	0°♑	
desc. node	11031 Dec 10 12:30	26°♑15'30	
	11031 Dec 13 15:21	0°♒	
	11032 Jan 07 20:48	0°♓	
	11032 Feb 02 14:42	0°♈	
	11032 Feb 29 07:46	0°♉	
evening max el	11032 Mar 20 15:27	21°♉16'09	46°32'55
	11032 Mar 29 17:45	0°♊	
asc. node	11032 Apr 01 12:07	2°♊30'50	
greatest brilliancy	11032 Apr 30 05:11	21°♊47'05	-4.9m
retrograde	11032 May 09 18:06	23°♊30'38	
evening set	11032 May 28 00:20	17°♊12'06	
inferior conj	11032 May 30 10:43	15°♊42'51	9°12'34
minimum elong	11032 May 30 12:29	15°♊40'07	9°11'55
min. Earth dist.	11032 May 30 16:07	15°♊34'32	0.27216 AU

morning rise	11032 Jun 02 00:36	14°♊08'08	
direct	11032 Jun 20 03:17	7°♊51'47	
greatest brilliancy	11032 Jun 30 00:35	9°♊42'00	-4.9m
desc. node	11032 Jul 22 11:45	23°♊46'50	
	11032 Jul 29 15:08	0°♋	
morning max el	11032 Aug 09 11:12	10°♋21'41	46°45'59
	11032 Aug 28 05:03	0°♌	
	11032 Sep 23 22:04	0°♍	
	11032 Oct 19 15:08	0°♎	
asc. node	11032 Nov 12 08:41	28°♎14'59	
	11032 Nov 13 19:41	0°♏	
	11032 Dec 08 15:45	0°♐	
	11033 Jan 02 05:38	0°♑	
	11033 Jan 26 15:18	0°♒	
morning set	11033 Feb 05 11:10	12°♒07'31	
	11033 Feb 19 22:00	0°♓	
desc. node	11033 Mar 04 00:36	15°♓00'31	
max. Earth dist.	11033 Mar 12 23:43	26°♓08'32	1.72283 AU
superior conj	11033 Mar 16 01:01	29°♓56'26	-0°28'41
minimum elong	11033 Mar 15 18:21	29°♓35'41	0°28'18
	11033 Mar 16 02:10	0°♈	
	11033 Apr 09 03:47	0°♉	
evening rise	11033 Apr 24 09:29	19°♉03'11	
	11033 May 03 03:25	0°♊	
	11033 May 27 02:39	0°♋	
	11033 Jun 20 03:53	0°♌	
asc. node	11033 Jun 24 19:02	5°♌45'12	
	11033 Jul 14 09:49	0°♍	
	11033 Aug 07 23:50	0°♎	
	11033 Sep 02 03:44	0°♏	
	11033 Sep 28 10:05	0°♐	
desc. node	11033 Oct 14 16:36	17°♐27'15	
evening max el	11033 Oct 25 16:27	28°♐28'23	45°52'25
	11033 Oct 27 06:39	0°♑	
greatest brilliancy	11033 Dec 03 19:59	26°♑53'22	-4.7m
retrograde	11033 Dec 13 16:12	28°♑39'02	
evening set	11033 Dec 30 17:30	23°♑06'52	
inferior conj	11034 Jan 04 01:47	20°♑26'54	-6°46'04
minimum elong	11034 Jan 04 11:47	20°♑11'13	6°43'32
min. Earth dist.	11034 Jan 04 15:33	20°♑05'19	0.28813 AU
morning rise	11034 Jan 09 05:49	17°♑17'42	
direct	11034 Jan 25 11:35	12°♑10'50	
asc. node	11034 Feb 04 17:39	14°♑07'22	
greatest brilliancy	11034 Feb 05 11:48	14°♑24'16	-4.8m
	11034 Mar 01 09:33	0°♒	
morning max el	11034 Mar 16 04:20	13°♒41'51	46°13'37
	11034 Mar 31 21:19	0°♓	
	11034 Apr 27 13:23	0°♈	
	11034 May 22 21:11	0°♉	
desc. node	11034 May 27 14:29	5°♉41'46	
	11034 Jun 16 13:09	0°♊	
	11034 Jul 10 21:02	0°♋	
	11034 Aug 04 01:36	0°♌	
	11034 Aug 28 05:37	0°♍	
asc. node	11034 Sep 17 07:58	24°♍55'41	
morning set	11034 Sep 17 17:55	25°♍26'32	
	11034 Sep 21 10:09	0°♎	
	11034 Oct 15 15:23	0°♏	
superior conj	11034 Oct 25 11:41	12°♏11'06	1°15'47
minimum elong	11034 Oct 25 03:25	11°♏45'33	1°15'58
max. Earth dist.	11034 Oct 27 01:32	14°♏08'10	1.72961 AU
	11034 Nov 08 21:33	0°♐	
evening rise	11034 Dec 01 05:20	27°♐31'57	
	11034 Dec 03 05:27	0°♑	
	11034 Dec 27 15:54	0°♒	

desc. node	11035 Jan 07 00:33	12°♒40'35	
	11035 Jan 21 05:09	0°♓	
	11035 Feb 14 20:52	0°♈	
	11035 Mar 11 15:36	0°♉	
	11035 Apr 05 16:43	0°♊	
asc. node	11035 Apr 29 22:24	28°♊19'55	
	11035 May 01 09:23	0°♋	
	11035 May 28 17:39	0°♌	
evening max el	11035 Jun 02 19:04	5°♌10'01	46°52'19
	11035 Jul 01 16:05	0°♍	
greatest brilliancy	11035 Jul 12 15:32	5°♍44'21	-4.9m
retrograde	11035 Jul 23 04:22	7°♍48'43	
evening set	11035 Aug 07 00:52	3°♍26'59	
	11035 Aug 12 21:07	30°℞♌	
inferior conj	11035 Aug 13 00:20	29°♌55'04	1°46'10
minimum elong	11035 Aug 13 04:23	29°♌48'52	1°44'30
min. Earth dist.	11035 Aug 12 18:33	0°♍03'55	0.27249 AU
morning rise	11035 Aug 19 08:28	26°♌13'08	
desc. node	11035 Aug 19 22:13	25°♌55'12	
direct	11035 Sep 02 20:18	22°♌07'42	
greatest brilliancy	11035 Sep 12 14:50	23°♌53'51	-4.8m
	11035 Sep 24 16:46	0°♍	
morning max el	11035 Oct 22 03:27	22°♍48'40	46°00'55
	11035 Oct 29 10:05	0°♎	
	11035 Nov 26 12:02	0°♏	
asc. node	11035 Dec 10 21:16	16°♏15'59	
	11035 Dec 22 18:16	0°♐	
	11036 Jan 17 02:48	0°♑	
	11036 Feb 10 22:39	0°♒	
	11036 Mar 06 10:31	0°♓	
	11036 Mar 30 16:45	0°♈	
desc. node	11036 Mar 31 14:00	1°♈05'58	
morning set	11036 Apr 19 02:29	24°♈09'57	
	11036 Apr 23 18:34	0°♉	
	11036 May 17 17:09	0°♊	
max. Earth dist.	11036 May 28 17:21	13°♊49'29	1.71329 AU
superior conj	11036 May 29 11:30	14°♊46'32	-1°27'28
minimum elong	11036 May 29 13:07	14°♊51'37	1°28'04
	11036 Jun 10 14:14	0°♋	
	11036 Jul 04 11:50	0°♌	
evening rise	11036 Jul 08 22:11	5°♌33'12	
asc. node	11036 Jul 22 07:27	22°♌17'39	
	11036 Jul 28 11:42	0°♍	
	11036 Aug 21 15:20	0°♎	
	11036 Sep 15 00:35	0°♏	
	11036 Oct 09 18:29	0°♐	
	11036 Nov 04 02:10	0°♑	
desc. node	11036 Nov 11 03:11	8°♑10'44	
	11036 Nov 30 08:30	0°♒	
	11036 Dec 28 11:04	0°♓	
evening max el	11037 Jan 05 01:44	7°♓30'39	45°55'55
	11037 Feb 01 04:35	0°♈	
greatest brilliancy	11037 Feb 13 06:48	6°♈07'24	-4.8m
retrograde	11037 Feb 23 02:58	7°♈53'55	
asc. node	11037 Mar 04 03:59	6°♈15'44	
evening set	11037 Mar 09 18:50	3°♈42'13	
inferior conj	11037 Mar 16 01:08	29°♓59'03	2°57'44
minimum elong	11037 Mar 15 18:38	0°♈09'09	2°55'50
min. Earth dist.	11037 Mar 16 05:17	29°♓52'35	0.27649 AU
	11037 Mar 16 00:31	30°℞♓	
morning rise	11037 Mar 21 18:01	26°♓33'23	
direct	11037 Apr 06 01:18	21°♓57'49	
greatest brilliancy	11037 Apr 16 10:27	23°♓58'41	-4.9m
	11037 Apr 27 21:08	0°♈	
morning max el	11037 May 26 10:00	24°♈35'36	46°54'09
	11037 May 31 16:55	0°♉	

desc. node	11037 Jun 24 02:35	25°♉33'39	
	11037 Jun 28 00:00	0°♊	
	11037 Jul 23 15:04	0°♋	
	11037 Aug 17 14:12	0°♌	
	11037 Sep 11 06:39	0°♍	
	11037 Oct 05 19:58	0°♎	
asc. node	11037 Oct 14 21:28	11°♎05'58	
	11037 Oct 30 07:06	0°♏	
	11037 Nov 23 16:23	0°♐	
morning set	11037 Nov 26 08:56	3°♐18'52	
	11037 Dec 18 00:24	0°♑	
max. Earth dist.	11038 Jan 01 13:30	17°♑56'51	1.73165 AU
superior conj	11038 Jan 02 00:18	18°♑30'11	1°08'14
minimum elong	11038 Jan 02 09:43	18°♑59'13	1°08'33
	11038 Jan 11 07:57	0°♒	
desc. node	11038 Feb 03 13:13	28°♒39'26	
	11038 Feb 04 15:20	0°♓	
evening rise	11038 Feb 08 18:39	5°♓06'27	
	11038 Feb 28 22:13	0°♈	
	11038 Mar 25 04:18	0°♉	
	11038 Apr 18 10:20	0°♊	
	11038 May 12 18:49	0°♋	
asc. node	11038 May 27 09:20	17°♋50'37	
	11038 Jun 06 10:15	0°♌	
	11038 Jul 01 16:05	0°♍	
	11038 Jul 28 04:25	0°♎	
evening max el	11038 Aug 13 09:37	16°♎56'35	46°26'04
	11038 Aug 27 07:51	0°♏	
desc. node	11038 Sep 16 08:28	14°♏20'10	
greatest brilliancy	11038 Sep 21 09:57	16°♏38'12	-4.8m
retrograde	11038 Oct 02 07:48	18°♏49'31	
evening set	11038 Oct 19 05:08	13°♏23'04	
min. Earth dist.	11038 Oct 23 01:40	11°♏01'49	0.28662 AU
inferior conj	11038 Oct 23 18:52	10°♏34'54	-7°36'41
minimum elong	11038 Oct 23 09:58	10°♏48'49	7°35'01
morning rise	11038 Oct 27 15:03	8°♏13'03	
direct	11038 Nov 14 02:01	2°♏28'43	
greatest brilliancy	11038 Nov 23 20:21	4°♏11'50	-4.7m
	11038 Dec 30 07:48	0°♐	
morning max el	11039 Jan 01 20:36	2°♐24'59	45°42'13
asc. node	11039 Jan 07 08:47	7°♐49'55	
	11039 Jan 28 09:19	0°♑	
	11039 Feb 23 19:04	0°♒	
	11039 Mar 21 02:09	0°♓	
	11039 Apr 14 18:55	0°♈	
desc. node	11039 Apr 29 03:33	17°♈39'42	
	11039 May 09 02:48	0°♉	
	11039 Jun 02 04:57	0°♊	
	11039 Jun 26 04:02	0°♋	
morning set	11039 Jul 04 16:15	10°♋40'04	
	11039 Jul 20 02:29	0°♌	
superior conj	11039 Aug 13 04:36	0°♍07'53	-0°16'10
minimum elong	11039 Aug 13 08:37	0°♍20'23	0°16'20
	11039 Aug 13 02:05	0°♍	
max. Earth dist.	11039 Aug 15 19:02	3°♍22'42	1.71910 AU
asc. node	11039 Aug 19 20:26	8°♍26'30	
	11039 Sep 06 03:47	0°♎	
evening rise	11039 Sep 20 17:46	18°♎06'30	
	11039 Sep 30 08:12	0°♏	
	11039 Oct 24 16:20	0°♐	
	11039 Nov 18 05:53	0°♑	
desc. node	11039 Dec 09 14:31	25°♑47'22	
	11039 Dec 13 02:49	0°♒	
	11040 Jan 07 09:11	0°♓	
	11040 Feb 02 04:43	0°♈	
	11040 Feb 29 01:07	0°♉	
evening max el	11040 Mar 18 04:52	18°♉54'19	46°31'42
	11040 Mar 29 21:52	0°♊	
asc. node	11040 Mar 31 14:12	1°♊29'27	
greatest brilliancy	11040 Apr 27 17:25	19°♊22'03	-4.9m
retrograde	11040 May 07 07:27	21°♊06'34	
evening set	11040 May 25 13:00	14°♊47'54	
inferior conj	11040 May 27 23:40	13°♊18'20	9°13'43
minimum elong	11040 May 28 00:27	13°♊17'07	9°13'08
min. Earth dist.	11040 May 28 04:21	13°♊11'06	0.27230 AU
morning rise	11040 May 30 11:52	11°♊46'17	
direct	11040 Jun 17 16:30	5°♊26'50	
greatest brilliancy	11040 Jun 27 13:15	7°♊17'01	-4.9m
desc. node	11040 Jul 21 13:42	22°♊39'45	
	11040 Jul 29 18:41	0°♋	
morning max el	11040 Aug 07 01:53	8°♋01'59	46°47'12
	11040 Aug 27 22:25	0°♌	
	11040 Sep 23 12:11	0°♍	
	11040 Oct 19 03:39	0°♎	
asc. node	11040 Nov 11 10:42	27°♎46'04	
	11040 Nov 13 07:17	0°♏	
	11040 Dec 08 02:47	0°♐	
	11041 Jan 01 16:21	0°♑	
	11041 Jan 26 01:51	0°♒	
morning set	11041 Feb 03 03:20	9°♒56'43	
	11041 Feb 19 08:33	0°♓	
desc. node	11041 Mar 03 02:28	14°♓33'34	
max. Earth dist.	11041 Mar 10 16:31	23°♓58'38	1.72326 AU
superior conj	11041 Mar 13 14:44	27°♓36'52	-0°25'11
minimum elong	11041 Mar 13 08:50	27°♓18'32	0°24'49
	11041 Mar 15 12:46	0°♈	
	11041 Apr 08 14:28	0°♉	
evening rise	11041 Apr 21 21:58	16°♉38'29	
	11041 May 02 14:13	0°♊	
	11041 May 26 13:36	0°♋	
	11041 Jun 19 15:04	0°♌	
asc. node	11041 Jun 23 20:55	5°♌16'10	
	11041 Jul 13 21:23	0°♍	
	11041 Aug 07 12:00	0°♎	
	11041 Sep 01 17:01	0°♏	
	11041 Sep 28 01:48	0°♐	
desc. node	11041 Oct 13 18:42	16°♐44'24	
evening max el	11041 Oct 23 08:40	26°♐18'43	45°53'10
	11041 Oct 27 05:44	0°♑	
greatest brilliancy	11041 Dec 01 10:33	24°♑42'19	-4.7m
retrograde	11041 Dec 11 08:16	26°♑28'47	
evening set	11041 Dec 28 12:10	20°♑52'16	
inferior conj	11042 Jan 01 17:40	18°♑16'04	-6°58'32
minimum elong	11042 Jan 02 03:30	18°♑00'39	6°56'08
min. Earth dist.	11042 Jan 02 06:26	17°♑56'03	0.28844 AU
morning rise	11042 Jan 06 18:42	15°♑11'16	
direct	11042 Jan 23 04:16	10°♑00'03	
greatest brilliancy	11042 Feb 03 02:32	12°♑11'52	-4.8m
asc. node	11042 Feb 03 19:32	12°♑28'34	
	11042 Mar 01 14:33	0°♒	
morning max el	11042 Mar 13 20:22	11°♒29'31	46°11'56
	11042 Mar 31 14:32	0°♓	
	11042 Apr 27 03:27	0°♈	
	11042 May 22 09:52	0°♉	
desc. node	11042 May 26 16:27	5°♉09'49	
	11042 Jun 16 01:05	0°♊	
	11042 Jul 10 08:30	0°♋	
	11042 Aug 03 12:44	0°♌	
	11042 Aug 27 16:31	0°♍	
morning set	11042 Sep 15 08:57	23°♍11'01	
asc. node	11042 Sep 16 09:53	24°♍28'22	

	11042 Sep 20 20:53	0°♎	
	11042 Oct 15 02:00	0°♏	
superior conj	11042 Oct 23 04:15	10°♏01'01	1°14'07
minimum elong	11042 Oct 22 19:36	9°♏34'15	1°14'16
max. Earth dist.	11042 Oct 24 21:12	12°♏07'42	1.72935 AU
	11042 Nov 08 08:09	0°♐	
evening rise	11042 Nov 28 22:09	25°♐23'07	
	11042 Dec 02 16:07	0°♑	
	11042 Dec 27 02:46	0°♒	
desc. node	11043 Jan 06 02:24	12°♒12'47	
	11043 Jan 20 16:17	0°♓	
	11043 Feb 14 08:28	0°♈	
	11043 Mar 11 03:54	0°♉	
	11043 Apr 05 06:11	0°♊	
asc. node	11043 Apr 29 00:24	27°♊41'19	
	11043 May 01 01:04	0°♋	
	11043 May 28 14:51	0°♌	
evening max el	11043 May 31 09:38	2°♌49'20	46°52'20
	11043 Jul 03 03:20	0°♍	
greatest brilliancy	11043 Jul 10 06:50	3°♍23'17	-4.9m
retrograde	11043 Jul 20 18:07	5°♍25'47	
evening set	11043 Aug 04 16:14	1°♍02'25	
	11043 Aug 06 12:20	30°℞♌	
inferior conj	11043 Aug 10 13:40	27°♌33'00	2°09'20
minimum elong	11043 Aug 10 18:35	27°♌25'29	2°07'24
min. Earth dist.	11043 Aug 10 08:58	27°♌40'14	0.27219 AU
morning rise	11043 Aug 16 21:29	23°♌51'18	
desc. node	11043 Aug 19 00:11	22°♌47'46	
direct	11043 Aug 31 09:33	19°♌46'12	
greatest brilliancy	11043 Sep 10 04:00	21°♌32'06	-4.8m
	11043 Sep 25 17:37	0°♍	
morning max el	11043 Oct 19 16:49	20°♍29'21	46°02'12
	11043 Oct 29 06:11	0°♎	
	11043 Nov 26 03:02	0°♏	
asc. node	11043 Dec 09 23:08	15°♏41'54	
	11043 Dec 22 07:13	0°♐	
	11044 Jan 16 14:45	0°♑	
	11044 Feb 10 10:03	0°♒	
	11044 Mar 05 21:36	0°♓	
	11044 Mar 30 03:40	0°♈	
desc. node	11044 Mar 30 16:03	0°♈38'26	
morning set	11044 Apr 16 14:20	21°♈43'15	
	11044 Apr 23 05:25	0°♉	
	11044 May 17 04:01	0°♊	
max. Earth dist.	11044 May 25 21:37	10°♊58'00	1.71341 AU
superior conj	11044 May 26 23:07	12°♊18'06	-1°27'39
minimum elong	11044 May 26 23:39	12°♊19'49	1°28'15
	11044 Jun 10 01:08	0°♋	
	11044 Jul 03 22:47	0°♌	
evening rise	11044 Jul 06 09:31	3°♌04'02	
asc. node	11044 Jul 21 09:16	21°♌49'01	
	11044 Jul 27 22:43	0°♍	
	11044 Aug 21 02:31	0°♎	
	11044 Sep 14 12:03	0°♏	
	11044 Oct 09 06:31	0°♐	
	11044 Nov 03 15:14	0°♑	
desc. node	11044 Nov 10 05:11	7°♑37'35	
	11044 Nov 29 23:41	0°♒	
	11044 Dec 28 07:39	0°♓	
evening max el	11045 Jan 02 15:29	5°♓12'59	45°55'05
	11045 Feb 02 14:00	0°♈	
greatest brilliancy	11045 Feb 10 21:38	3°♈49'56	-4.8m
retrograde	11045 Feb 20 16:24	5°♈35'39	
asc. node	11045 Mar 03 06:04	3°♈22'12	
evening set	11045 Mar 07 08:19	1°♈24'32	
	11045 Mar 09 20:08	30°℞♓	
inferior conj	11045 Mar 13 15:28	27°♓40'32	2°36'02
minimum elong	11045 Mar 13 09:42	27°♓49'31	2°34'21
min. Earth dist.	11045 Mar 13 20:45	27°♓32'20	0.27675 AU
morning rise	11045 Mar 19 10:32	24°♓11'34	
direct	11045 Apr 03 15:19	19°♓38'35	
greatest brilliancy	11045 Apr 14 02:46	21°♓41'11	-4.9m
	11045 Apr 28 20:31	0°♈	
morning max el	11045 May 23 23:23	22°♈12'37	46°53'23
	11045 May 31 13:05	0°♉	
desc. node	11045 Jun 23 04:31	24°♉54'00	
	11045 Jun 27 15:25	0°♊	
	11045 Jul 23 04:33	0°♋	
	11045 Aug 17 02:39	0°♌	
	11045 Sep 10 18:26	0°♍	
	11045 Oct 05 07:18	0°♎	
asc. node	11045 Oct 13 23:28	10°♎37'45	
	11045 Oct 29 18:08	0°♏	
	11045 Nov 23 03:13	0°♐	
morning set	11045 Nov 24 01:48	1°♐09'36	
	11045 Dec 17 11:09	0°♑	
superior conj	11045 Dec 30 17:04	16°♑20'41	1°10'13
minimum elong	11045 Dec 31 02:16	16°♑49'01	1°10'35
max. Earth dist.	11045 Dec 30 07:30	15°♑51'11	1.73179 AU
	11046 Jan 10 18:44	0°♒	
desc. node	11046 Feb 02 15:07	28°♒11'42	
	11046 Feb 04 02:14	0°♓	
evening rise	11046 Feb 06 10:09	2°♓52'30	
	11046 Feb 28 09:18	0°♈	
	11046 Mar 24 15:37	0°♉	
	11046 Apr 17 21:58	0°♊	
	11046 May 12 06:56	0°♋	
asc. node	11046 May 26 11:13	17°♋18'17	
	11046 Jun 05 23:10	0°♌	
	11046 Jul 01 06:31	0°♍	
	11046 Jul 27 22:17	0°♎	
evening max el	11046 Aug 10 23:55	14°♎37'45	46°27'22
	11046 Aug 27 14:48	0°♏	
desc. node	11046 Sep 15 10:35	12°♏49'11	
greatest brilliancy	11046 Sep 19 01:05	14°♏23'32	-4.8m
retrograde	11046 Sep 29 23:37	16°♏36'00	
evening set	11046 Oct 16 17:14	11°♏14'28	
min. Earth dist.	11046 Oct 20 16:38	8°♏49'27	0.28619 AU
inferior conj	11046 Oct 21 10:22	8°♏21'46	-7°26'16
minimum elong	11046 Oct 21 01:04	8°♏36'17	7°24'26
morning rise	11046 Oct 25 09:10	5°♏56'18	
direct	11046 Nov 11 16:39	0°♏16'04	
greatest brilliancy	11046 Nov 21 11:18	1°♏59'25	-4.7m
	11046 Dec 30 06:50	0°♐	
morning max el	11046 Dec 30 11:43	0°♐11'43	45°42'04
asc. node	11047 Jan 06 10:45	7°♐03'55	
	11047 Jan 28 01:11	0°♑	
	11047 Feb 23 08:31	0°♒	
	11047 Mar 20 14:30	0°♓	
	11047 Apr 14 06:42	0°♈	
desc. node	11047 Apr 28 05:24	17°♈09'43	
	11047 May 08 14:14	0°♉	
	11047 Jun 01 16:10	0°♊	
	11047 Jun 25 15:05	0°♋	
morning set	11047 Jul 02 04:37	8°♋13'50	
	11047 Jul 19 13:25	0°♌	
superior conj	11047 Aug 10 18:06	27°♌46'11	-0°19'47
minimum elong	11047 Aug 10 22:59	28°♌01'25	0°19'56
	11047 Aug 12 12:57	0°♍	
max. Earth dist.	11047 Aug 13 06:56	0°♍56'07	1.71876 AU

asc. node	11047 Aug 18 22:24	7°♍58'48	
	11047 Sep 05 14:39	0°♎	
evening rise	11047 Sep 18 09:33	15°♎52'57	
	11047 Sep 29 19:07	0°♏	
	11047 Oct 24 03:24	0°♐	
	11047 Nov 17 17:16	0°♑	
desc. node	11047 Dec 08 16:20	25°♑17'19	
	11047 Dec 12 14:45	0°♒	
	11048 Jan 06 22:05	0°♓	
	11048 Feb 01 19:18	0°♈	
	11048 Feb 28 19:19	0°♉	
evening max el	11048 Mar 15 19:13	16°♉33'46	46°30'26
	11048 Mar 30 04:33	0°♊	
asc. node	11048 Mar 30 16:14	0°♊25'13	
greatest brilliancy	11048 Apr 25 05:28	16°♊55'49	-4.9m
retrograde	11048 May 04 21:02	18°♊41'18	
evening set	11048 May 23 01:06	12°♊23'36	
inferior conj	11048 May 25 12:36	10°♊52'44	9°13'58
minimum elong	11048 May 25 12:23	10°♊53'03	9°13'23
min. Earth dist.	11048 May 25 16:25	10°♊46'52	0.27239 AU
morning rise	11048 May 27 23:40	9°♊22'29	
direct	11048 Jun 15 06:06	3°♊01'06	
greatest brilliancy	11048 Jun 25 01:28	4°♊50'34	-4.9m
desc. node	11048 Jul 20 15:38	21°♊33'38	
	11048 Jul 29 20:57	0°♋	
morning max el	11048 Aug 04 16:39	5°♋41'51	46°48'29
	11048 Aug 27 15:37	0°♌	
	11048 Sep 23 02:23	0°♍	
	11048 Oct 18 16:21	0°♎	
asc. node	11048 Nov 10 12:30	27°♎15'44	
	11048 Nov 12 19:08	0°♏	
	11048 Dec 07 14:07	0°♐	
	11049 Jan 01 03:22	0°♑	
	11049 Jan 25 12:44	0°♒	
morning set	11049 Jan 31 19:29	7°♒44'56	
	11049 Feb 18 19:24	0°♓	
desc. node	11049 Mar 02 04:25	14°♓06'00	
max. Earth dist.	11049 Mar 08 07:50	21°♓43'24	1.72367 AU
superior conj	11049 Mar 11 04:26	25°♓16'31	-0°21'40
minimum elong	11049 Mar 10 23:21	25°♓00'42	0°21'18
	11049 Mar 14 23:39	0°♈	
	11049 Apr 08 01:26	0°♉	
evening rise	11049 Apr 19 10:29	14°♉13'02	
	11049 May 02 01:18	0°♊	
	11049 May 26 00:52	0°♋	
	11049 Jun 19 02:34	0°♌	
asc. node	11049 Jun 22 22:48	4°♌46'14	
	11049 Jul 13 09:12	0°♍	
	11049 Aug 07 00:25	0°♎	
	11049 Sep 01 06:34	0°♏	
	11049 Sep 27 17:54	0°♐	
desc. node	11049 Oct 12 20:38	16°♐00'08	
evening max el	11049 Oct 21 00:49	24°♐08'24	45°53'45
	11049 Oct 27 06:06	0°♑	
greatest brilliancy	11049 Nov 29 01:44	22°♑31'33	-4.7m
retrograde	11049 Dec 08 23:58	24°♑18'06	
evening set	11049 Dec 26 06:55	18°♑37'30	
inferior conj	11049 Dec 30 09:42	16°♑05'02	-7°10'20
minimum elong	11049 Dec 30 19:18	15°♑49'57	7°08'05
min. Earth dist.	11049 Dec 30 21:39	15°♑46'16	0.28875 AU
morning rise	11050 Jan 04 07:34	13°♑04'33	
direct	11050 Jan 20 20:52	7°♑49'04	
greatest brilliancy	11050 Jan 31 17:31	9°♑59'10	-4.8m
asc. node	11050 Feb 02 21:35	10°♑52'50	
	11050 Mar 01 18:00	0°♒	
morning max el	11050 Mar 11 11:42	9°♒14'50	46°10'14
	11050 Mar 31 07:36	0°♓	
	11050 Apr 26 17:33	0°♈	
	11050 May 21 22:37	0°♉	
desc. node	11050 May 25 18:16	4°♉37'08	
	11050 Jun 15 13:07	0°♊	
	11050 Jul 09 20:05	0°♋	
	11050 Aug 03 00:00	0°♌	
	11050 Aug 27 03:32	0°♍	
morning set	11050 Sep 13 00:14	20°♍55'59	
asc. node	11050 Sep 15 11:49	24°♍00'46	
	11050 Sep 20 07:41	0°♎	
	11050 Oct 14 12:40	0°♏	
superior conj	11050 Oct 20 21:07	7°♏51'45	1°12'23
minimum elong	11050 Oct 20 12:07	7°♏23'55	1°12'28
max. Earth dist.	11050 Oct 22 16:51	10°♏07'04	1.72906 AU
	11050 Nov 07 18:47	0°♐	
evening rise	11050 Nov 26 15:15	23°♐14'59	
	11050 Dec 02 02:51	0°♑	
	11050 Dec 26 13:42	0°♒	
desc. node	11051 Jan 05 04:21	11°♒45'03	
	11051 Jan 20 03:33	0°♓	
	11051 Feb 13 20:12	0°♈	
	11051 Mar 10 16:22	0°♉	
	11051 Apr 04 19:53	0°♊	
asc. node	11051 Apr 28 02:18	27°♊01'49	
	11051 Apr 30 17:06	0°♋	
	11051 May 28 12:56	0°♌	
evening max el	11051 May 28 23:11	0°♌25'46	46°52'15
	11051 Jul 05 09:41	0°♍	
greatest brilliancy	11051 Jul 07 22:29	1°♍02'10	-4.9m
retrograde	11051 Jul 18 07:19	3°♍02'27	
	11051 Jul 30 15:07	30°℞♌	
evening set	11051 Aug 02 07:40	28°♌37'05	
inferior conj	11051 Aug 08 02:59	25°♌10'39	2°32'23
minimum elong	11051 Aug 08 08:41	25°♌01'52	2°30'12
min. Earth dist.	11051 Aug 07 23:41	25°♌15'42	0.27191 AU
morning rise	11051 Aug 14 10:10	21°♌29'20	
desc. node	11051 Aug 18 02:18	19°♌43'51	
direct	11051 Aug 28 22:13	17°♌24'07	
greatest brilliancy	11051 Sep 07 17:44	19°♌10'32	-4.8m
	11051 Sep 26 11:59	0°♍	
morning max el	11051 Oct 17 05:48	18°♍08'56	46°03'48
	11051 Oct 29 01:36	0°♎	
	11051 Nov 25 17:45	0°♏	
asc. node	11051 Dec 09 01:05	15°♏08'34	
	11051 Dec 21 19:58	0°♐	
	11052 Jan 16 02:33	0°♑	
	11052 Feb 09 21:21	0°♒	
	11052 Mar 05 08:38	0°♓	
desc. node	11052 Mar 29 17:55	0°♈10'22	
	11052 Mar 29 14:34	0°♈	
morning set	11052 Apr 14 02:03	19°♈16'09	
	11052 Apr 22 16:16	0°♉	
	11052 May 16 14:50	0°♊	
max. Earth dist.	11052 May 23 01:52	8°♊06'42	1.71355 AU
superior conj	11052 May 24 10:34	9°♊49'22	-1°27'40
minimum elong	11052 May 24 10:02	9°♊47'42	1°28'14
	11052 Jun 09 11:59	0°♋	
	11052 Jul 03 09:40	0°♌	
evening rise	11052 Jul 03 20:45	0°♌34'44	
asc. node	11052 Jul 20 11:17	21°♌21'09	
	11052 Jul 27 09:41	0°♍	
	11052 Aug 20 13:39	0°♎	
	11052 Sep 13 23:29	0°♏	
	11052 Oct 08 18:29	0°♐	

	11052 Nov 03 04:13	0°♑	
desc. node	11052 Nov 09 07:05	7°♑04'34	
	11052 Nov 29 14:50	0°♒	
	11052 Dec 28 04:38	0°♓	
evening max el	11052 Dec 31 05:13	2°♓56'18	45°54'20
	11053 Feb 04 15:26	0°♈	
greatest brilliancy	11053 Feb 08 11:52	1°♈32'51	-4.8m
retrograde	11053 Feb 18 06:17	3°♈18'37	
asc. node	11053 Mar 02 08:04	0°♈25'16	
	11053 Mar 03 05:14	30°℞♓	
evening set	11053 Mar 04 22:07	29°♓07'26	
inferior conj	11053 Mar 11 05:56	25°♓22'53	2°14'10
minimum elong	11053 Mar 11 00:55	25°♓30'40	2°12'43
min. Earth dist.	11053 Mar 11 12:06	25°♓13'17	0.27710 AU
morning rise	11053 Mar 17 03:06	21°♓51'04	
direct	11053 Apr 01 05:45	17°♓20'04	
greatest brilliancy	11053 Apr 11 19:17	19°♓24'37	-4.9m
	11053 Apr 29 13:34	0°♈	
morning max el	11053 May 21 13:54	19°♈52'53	46°52'31
	11053 May 31 08:33	0°♉	
desc. node	11053 Jun 22 06:30	24°♉15'11	
	11053 Jun 27 06:30	0°♊	
	11053 Jul 22 17:47	0°♋	
	11053 Aug 16 14:51	0°♌	
	11053 Sep 10 05:59	0°♍	
	11053 Oct 04 18:24	0°♎	
asc. node	11053 Oct 13 01:14	10°♎09'28	
	11053 Oct 29 04:56	0°♏	
morning set	11053 Nov 21 18:50	29°♏01'29	
	11053 Nov 22 13:50	0°♐	
	11053 Dec 16 21:40	0°♑	
superior conj	11053 Dec 28 10:09	14°♑12'58	1°12'04
minimum elong	11053 Dec 28 19:05	14°♑40'29	1°12'28
max. Earth dist.	11053 Dec 28 03:40	13°♑52'56	1.73187 AU
	11054 Jan 10 05:13	0°♒	
desc. node	11054 Feb 01 17:07	27°♒45'13	
	11054 Feb 03 12:49	0°♓	
evening rise	11054 Feb 04 02:03	0°♓40'48	
	11054 Feb 27 20:05	0°♈	
	11054 Mar 24 02:42	0°♉	
	11054 Apr 17 09:25	0°♊	
	11054 May 11 18:56	0°♋	
asc. node	11054 May 25 13:09	16°♋46'20	
	11054 Jun 05 12:01	0°♌	
	11054 Jun 30 20:57	0°♍	
	11054 Jul 27 16:23	0°♎	
evening max el	11054 Aug 08 14:58	12°♎21'22	46°28'46
	11054 Aug 28 00:05	0°♏	
desc. node	11054 Sep 14 12:30	11°♏15'18	
greatest brilliancy	11054 Sep 16 15:34	12°♏08'35	-4.8m
retrograde	11054 Sep 27 15:44	14°♏22'46	
evening set	11054 Oct 14 05:14	9°♏06'03	
min. Earth dist.	11054 Oct 18 07:13	6°♏37'38	0.28572 AU
inferior conj	11054 Oct 19 01:43	6°♏08'49	-7°15'07
minimum elong	11054 Oct 18 16:05	6°♏23'50	7°13'09
morning rise	11054 Oct 23 03:14	3°♏39'45	
	11054 Oct 30 10:46	30°℞♎	
direct	11054 Nov 09 07:38	28°♎03'44	
greatest brilliancy	11054 Nov 19 01:38	29°♎46'57	-4.7m
	11054 Nov 19 16:41	0°♏	
morning max el	11054 Dec 28 03:35	28°♏01'17	45°42'05
	11054 Dec 30 04:33	0°♐	
asc. node	11055 Jan 05 12:45	6°♐19'42	
	11055 Jan 27 16:23	0°♑	
	11055 Feb 22 21:26	0°♒	
	11055 Mar 20 02:23	0°♓	
	11055 Apr 13 18:03	0°♈	
desc. node	11055 Apr 27 07:15	16°♈40'57	
	11055 May 08 01:18	0°♉	
	11055 Jun 01 03:03	0°♊	
	11055 Jun 25 01:51	0°♋	
morning set	11055 Jun 29 16:35	5°♋47'06	
	11055 Jul 19 00:06	0°♌	
superior conj	11055 Aug 08 07:01	25°♌23'23	-0°23'26
minimum elong	11055 Aug 08 12:45	25°♌41'17	0°23'33
max. Earth dist.	11055 Aug 10 20:01	28°♌33'55	1.71841 AU
	11055 Aug 11 23:34	0°♍	
asc. node	11055 Aug 18 00:17	7°♍31'36	
	11055 Sep 05 01:15	0°♎	
evening rise	11055 Sep 16 00:55	13°♎38'53	
	11055 Sep 29 05:45	0°♏	
	11055 Oct 23 14:11	0°♐	
	11055 Nov 17 04:22	0°♑	
desc. node	11055 Dec 07 18:20	24°♑48'43	
	11055 Dec 12 02:25	0°♒	
	11056 Jan 06 10:41	0°♓	
	11056 Feb 01 09:37	0°♈	
	11056 Feb 28 13:25	0°♉	
evening max el	11056 Mar 13 10:00	14°♉15'56	46°29'09
asc. node	11056 Mar 29 18:06	29°♉20'33	
	11056 Mar 30 12:58	0°♊	
greatest brilliancy	11056 Apr 22 17:34	14°♊31'25	-4.9m
retrograde	11056 May 02 10:20	16°♊17'25	
evening set	11056 May 20 12:39	10°♊01'52	
inferior conj	11056 May 23 01:36	8°♊28'38	9°13'11
minimum elong	11056 May 23 00:25	8°♊30'28	9°12'35
min. Earth dist.	11056 May 23 04:33	8°♊24'06	0.27252 AU
morning rise	11056 May 25 12:11	6°♊59'02	
direct	11056 Jun 12 19:54	0°♊36'56	
greatest brilliancy	11056 Jun 22 13:51	2°♊25'21	-4.9m
desc. node	11056 Jul 19 17:43	20°♊30'21	
	11056 Jul 29 21:34	0°♋	
morning max el	11056 Aug 02 06:45	3°♋20'41	46°49'27
	11056 Aug 27 08:16	0°♌	
	11056 Sep 22 16:12	0°♍	
	11056 Oct 18 04:43	0°♎	
asc. node	11056 Nov 09 14:27	26°♎46'52	
	11056 Nov 12 06:38	0°♏	
	11056 Dec 07 01:05	0°♐	
	11056 Dec 31 14:03	0°♑	
	11057 Jan 24 23:17	0°♒	
morning set	11057 Jan 29 11:40	5°♒34'17	
	11057 Feb 18 05:54	0°♓	
desc. node	11057 Mar 01 06:16	13°♓39'15	
max. Earth dist.	11057 Mar 05 21:25	19°♓24'01	1.72402 AU
superior conj	11057 Mar 08 18:29	22°♓58'27	-0°18'08
minimum elong	11057 Mar 08 14:13	22°♓45'12	0°17'46
	11057 Mar 14 10:09	0°♈	
	11057 Apr 07 12:00	0°♉	
evening rise	11057 Apr 16 23:24	11°♉50'10	
	11057 May 01 11:58	0°♊	
	11057 May 25 11:43	0°♋	
	11057 Jun 18 13:42	0°♌	
asc. node	11057 Jun 22 00:49	4°♌17'52	
	11057 Jul 12 20:45	0°♍	
	11057 Aug 06 12:36	0°♎	
	11057 Aug 31 19:59	0°♏	
	11057 Sep 27 10:05	0°♐	
desc. node	11057 Oct 11 22:35	15°♐15'53	
evening max el	11057 Oct 18 16:00	21°♐56'08	45°54'27
	11057 Oct 27 07:31	0°♑	

greatest brilliancy	11057 Nov 26	17:15	20°♑21'33	-4.7m
retrograde	11057 Dec 06	15:01	22°♑07'50	
evening set	11057 Dec 24	01:30	16°♑23'11	
inferior conj	11057 Dec 28	01:37	13°♑54'30	-7°21'38
minimum elong	11057 Dec 28	10:54	13°♑39'52	7°19'30
min. Earth dist.	11057 Dec 28	13:00	13°♑36'34	0.28902 AU
morning rise	11058 Jan 01	20:11	10°♑58'26	
direct	11058 Jan 18	12:55	5°♑38'30	
greatest brilliancy	11058 Jan 29	08:51	7°♑47'26	-4.8m
asc. node	11058 Feb 01	23:37	9°♑20'52	
	11058 Mar 01	19:35	0°♒	
morning max el	11058 Mar 09	02:08	6°♒58'42	46°08'45
	11058 Mar 30	24:00	0°♓	
	11058 Apr 26	07:08	0°♈	
	11058 May 21	10:55	0°♉	
desc. node	11058 May 24	20:17	4°♉06'23	
	11058 Jun 15	00:41	0°♊	
	11058 Jul 09	07:15	0°♋	
	11058 Aug 02	10:54	0°♌	
	11058 Aug 26	14:14	0°♍	
morning set	11058 Sep 10	15:11	18°♍40'38	
asc. node	11058 Sep 14	13:38	23°♍33'35	
	11058 Sep 19	18:14	0°♎	
	11058 Oct 13	23:07	0°♏	
superior conj	11058 Oct 18	13:33	5°♏41'44	1°10'29
minimum elong	11058 Oct 18	04:15	5°♏12'58	1°10'32
max. Earth dist.	11058 Oct 20	09:44	7°♏58'26	1.72878 AU
	11058 Nov 07	05:14	0°♐	
evening rise	11058 Nov 24	07:52	21°♐06'02	
	11058 Dec 01	13:23	0°♑	
	11058 Dec 26	00:26	0°♒	
desc. node	11059 Jan 04	06:18	11°♒17'53	
	11059 Jan 19	14:37	0°♓	
	11059 Feb 13	07:46	0°♈	
	11059 Mar 10	04:42	0°♉	
	11059 Apr 04	09:27	0°♊	
asc. node	11059 Apr 27	04:21	26°♊23'16	
	11059 Apr 30	09:06	0°♋	
evening max el	11059 May 26	11:55	28°♋01'18	46°52'19
	11059 May 28	11:29	0°♌	
greatest brilliancy	11059 Jul 05	14:06	28°♌42'24	-4.9m
	11059 Jul 09	21:56	0°♍	
retrograde	11059 Jul 15	20:28	0°♍40'56	
	11059 Jul 21	15:39	30°℞♌	
evening set	11059 Jul 30	23:23	26°♌12'52	
inferior conj	11059 Aug 05	16:28	22°♌49'50	2°55'05
minimum elong	11059 Aug 05	22:57	22°♌39'52	2°52'38
min. Earth dist.	11059 Aug 05	14:38	22°♌52'39	0.27170 AU
morning rise	11059 Aug 11	22:49	19°♌09'20	
desc. node	11059 Aug 17	04:11	16°♌46'34	
direct	11059 Aug 26	10:51	15°♌03'16	
greatest brilliancy	11059 Sep 05	08:05	16°♌50'55	-4.8m
	11059 Sep 27	01:12	0°♍	
morning max el	11059 Oct 14	19:10	15°♍49'56	46°05'12
	11059 Oct 28	20:16	0°♎	
	11059 Nov 25	08:08	0°♏	
asc. node	11059 Dec 08	03:06	14°♏35'57	
	11059 Dec 21	08:33	0°♐	
	11060 Jan 15	14:12	0°♑	
	11060 Feb 09	08:30	0°♒	
	11060 Mar 04	19:31	0°♓	
desc. node	11060 Mar 28	19:41	29°♓42'31	
	11060 Mar 29	01:19	0°♈	
morning set	11060 Apr 11	13:44	16°♈49'27	
	11060 Apr 22	02:58	0°♉	
	11060 May 16	01:32	0°♊	
max. Earth dist.	11060 May 20	07:36	5°♊20'26	1.71369 AU
superior conj	11060 May 21	22:07	7°♊21'23	-1°27'30
minimum elong	11060 May 21	20:30	7°♊16'17	1°28'03
	11060 Jun 08	22:41	0°♋	
evening rise	11060 Jul 01	08:14	28°♋06'51	
	11060 Jul 02	20:22	0°♌	
asc. node	11060 Jul 19	13:09	20°♌53'25	
	11060 Jul 26	20:27	0°♍	
	11060 Aug 20	00:34	0°♎	
	11060 Sep 13	10:45	0°♏	
	11060 Oct 08	06:21	0°♐	
	11060 Nov 02	17:14	0°♑	
desc. node	11060 Nov 08	09:05	6°♑31'46	
	11060 Nov 29	06:12	0°♒	
	11060 Dec 28	02:29	0°♓	
evening max el	11060 Dec 28	19:27	0°♓40'51	45°53'40
greatest brilliancy	11061 Feb 06	01:33	29°♓14'57	-4.8m
	11061 Feb 08	12:02	0°♈	
retrograde	11061 Feb 15	20:37	1°♈01'16	
	11061 Feb 22	23:21	30°℞♓	
asc. node	11061 Mar 01	09:57	27°♓23'50	
evening set	11061 Mar 02	12:02	26°♓49'43	
inferior conj	11061 Mar 08	20:13	23°♓04'45	1°51'57
minimum elong	11061 Mar 08	16:00	23°♓11'17	1°50'47
min. Earth dist.	11061 Mar 09	03:00	22°♓54'14	0.27744 AU
morning rise	11061 Mar 14	19:22	19°♓30'28	
direct	11061 Mar 29	20:30	15°♓01'12	
greatest brilliancy	11061 Apr 09	11:09	17°♓07'12	-4.8m
	11061 Apr 30	02:18	0°♈	
morning max el	11061 May 19	05:06	17°♈34'59	46°51'37
	11061 May 31	03:27	0°♉	
desc. node	11061 Jun 21	08:28	23°♉36'46	
	11061 Jun 26	21:21	0°♊	
	11061 Jul 22	06:52	0°♋	
	11061 Aug 16	02:56	0°♌	
	11061 Sep 09	17:25	0°♍	
	11061 Oct 04	05:25	0°♎	
asc. node	11061 Oct 12	03:11	9°♎41'59	
	11061 Oct 28	15:41	0°♏	
morning set	11061 Nov 19	11:54	26°♏53'29	
	11061 Nov 22	00:25	0°♐	
	11061 Dec 16	08:12	0°♑	
superior conj	11061 Dec 26	03:05	12°♑04'30	1°13'51
minimum elong	11061 Dec 26	11:40	12°♑30'58	1°14'15
max. Earth dist.	11061 Dec 26	00:12	11°♑55'36	1.73200 AU
	11062 Jan 09	15:49	0°♒	
desc. node	11062 Jan 31	18:54	27°♒17'41	
evening rise	11062 Feb 01	17:38	28°♒27'47	
	11062 Feb 02	23:33	0°♓	
	11062 Feb 27	07:01	0°♈	
	11062 Mar 23	13:55	0°♉	
	11062 Apr 16	21:02	0°♊	
	11062 May 11	07:05	0°♋	
asc. node	11062 May 24	15:10	16°♋14'12	
	11062 Jun 05	01:05	0°♌	
	11062 Jun 30	11:41	0°♍	
	11062 Jul 27	11:03	0°♎	
evening max el	11062 Aug 06	06:58	10°♎07'15	46°30'17
	11062 Aug 28	12:37	0°♏	
desc. node	11062 Sep 13	14:27	9°♏38'24	
greatest brilliancy	11062 Sep 14	06:11	9°♏54'02	-4.8m
retrograde	11062 Sep 25	08:12	12°♏09'43	
evening set	11062 Oct 11	17:31	6°♏57'57	
min. Earth dist.	11062 Oct 15	21:43	4°♏26'25	0.28522 AU
inferior conj	11062 Oct 16	17:11	3°♏56'08	-7°03'15

minimum elong	11062 Oct 16 07:18	4°♏11'31	7°01'10
morning rise	11062 Oct 20 21:28	1°♏23'19	
	11062 Oct 23 08:52	30°℞♎	
direct	11062 Nov 06 23:09	25°♎51'55	
greatest brilliancy	11062 Nov 16 15:31	27°♎34'11	-4.7m
	11062 Nov 22 10:57	0°♏	
morning max el	11062 Dec 25 19:29	25°♏50'51	45°41'50
	11062 Dec 30 01:31	0°♐	
asc. node	11063 Jan 04 14:42	5°♐35'44	
	11063 Jan 27 07:32	0°♑	
	11063 Feb 22 10:32	0°♒	
	11063 Mar 19 14:30	0°♓	
	11063 Apr 13 05:39	0°♈	
desc. node	11063 Apr 26 09:16	16°♈11'59	
	11063 May 07 12:36	0°♉	
	11063 May 31 14:09	0°♊	
	11063 Jun 24 12:49	0°♋	
morning set	11063 Jun 27 04:24	3°♋19'21	
	11063 Jul 18 10:59	0°♌	
superior conj	11063 Aug 05 19:54	22°♌59'41	-0°27'02
minimum elong	11063 Aug 06 02:27	23°♌20'08	0°27'09
max. Earth dist.	11063 Aug 08 10:35	26°♌15'36	1.71803 AU
	11063 Aug 11 10:25	0°♍	
asc. node	11063 Aug 17 02:06	7°♍03'30	
	11063 Sep 04 12:04	0°♎	
evening rise	11063 Sep 13 16:20	11°♎24'15	
	11063 Sep 28 16:36	0°♏	
	11063 Oct 23 01:10	0°♐	
	11063 Nov 16 15:40	0°♑	
desc. node	11063 Dec 06 20:19	24°♑19'22	
	11063 Dec 11 14:19	0°♒	
	11064 Jan 05 23:38	0°♓	
	11064 Feb 01 00:29	0°♈	
	11064 Feb 28 08:31	0°♉	
evening max el	11064 Mar 11 00:22	11°♉55'39	46°27'38
asc. node	11064 Mar 28 20:11	28°♉13'07	
	11064 Mar 31 01:13	0°♊	
greatest brilliancy	11064 Apr 20 06:12	12°♊06'07	-4.9m
retrograde	11064 Apr 29 23:03	13°♊51'51	
evening set	11064 May 17 23:32	7°♊39'42	
inferior conj	11064 May 20 14:33	6°♊03'09	9°11'18
minimum elong	11064 May 20 12:23	6°♊06'30	9°10'41
min. Earth dist.	11064 May 20 16:56	5°♊59'28	0.27261 AU
morning rise	11064 May 23 01:14	4°♊33'10	
	11064 May 31 23:00	30°℞♉	
direct	11064 Jun 10 09:14	28°♉11'26	
greatest brilliancy	11064 Jun 20 02:33	29°♉59'05	-4.9m
	11064 Jun 20 03:34	0°♊	
desc. node	11064 Jul 18 19:38	19°♊27'14	
	11064 Jul 29 21:28	0°♋	
morning max el	11064 Jul 30 19:41	0°♋55'26	46°50'28
	11064 Aug 27 00:57	0°♌	
	11064 Sep 22 06:12	0°♍	
	11064 Oct 17 17:20	0°♎	
asc. node	11064 Nov 08 16:25	26°♎17'13	
	11064 Nov 11 18:24	0°♏	
	11064 Dec 06 12:19	0°♐	
	11064 Dec 31 00:59	0°♑	
	11065 Jan 24 10:06	0°♒	
morning set	11065 Jan 27 04:10	3°♒23'47	
	11065 Feb 17 16:43	0°♓	
desc. node	11065 Feb 28 08:08	13°♓11'25	
max. Earth dist.	11065 Mar 03 10:39	17°♓02'31	1.72448 AU
superior conj	11065 Mar 06 08:43	20°♓39'53	-0°14'34
minimum elong	11065 Mar 06 05:17	20°♓29'15	0°14'15
behind sun begin	11065 Mar 05 17:51	19°♓53'45	
behind sun end	11065 Mar 06 16:43	21°♓04'46	
	11065 Mar 13 21:03	0°♈	
	11065 Apr 06 23:00	0°♉	
evening rise	11065 Apr 14 12:10	9°♉25'31	
	11065 Apr 30 23:07	0°♊	
	11065 May 24 23:03	0°♋	
	11065 Jun 18 01:17	0°♌	
asc. node	11065 Jun 21 02:41	3°♌47'35	
	11065 Jul 12 08:43	0°♍	
	11065 Aug 06 01:15	0°♎	
	11065 Aug 31 09:56	0°♏	
	11065 Sep 27 03:00	0°♐	
desc. node	11065 Oct 11 00:40	14°♐30'19	
evening max el	11065 Oct 16 06:33	19°♐41'17	45°55'16
	11065 Oct 27 10:50	0°♑	
greatest brilliancy	11065 Nov 24 09:07	18°♑11'29	-4.7m
retrograde	11065 Dec 04 06:20	19°♑57'45	
evening set	11065 Dec 21 20:16	14°♑08'57	
inferior conj	11065 Dec 25 17:49	11°♑44'05	-7°32'02
minimum elong	11065 Dec 26 02:46	11°♑29'59	7°30'03
min. Earth dist.	11065 Dec 26 04:46	11°♑26'51	0.28926 AU
morning rise	11065 Dec 30 09:08	8°♑52'35	
direct	11066 Jan 16 04:50	3°♑27'59	
greatest brilliancy	11066 Jan 27 00:51	5°♑36'24	-4.8m
asc. node	11066 Feb 01 01:28	7°♑51'36	
	11066 Mar 01 20:06	0°♒	
morning max el	11066 Mar 06 16:26	4°♒41'33	46°07'10
	11066 Mar 30 16:25	0°♓	
	11066 Apr 25 21:00	0°♈	
	11066 May 20 23:36	0°♉	
desc. node	11066 May 23 22:11	3°♉33'55	
	11066 Jun 14 12:45	0°♊	
	11066 Jul 08 18:54	0°♋	
	11066 Aug 01 22:15	0°♌	
	11066 Aug 26 01:20	0°♍	
morning set	11066 Sep 08 05:54	16°♍23'11	
asc. node	11066 Sep 13 15:34	23°♍05'36	
	11066 Sep 19 05:10	0°♎	
	11066 Oct 13 09:57	0°♏	
superior conj	11066 Oct 16 05:59	3°♏30'33	1°08'30
minimum elong	11066 Oct 15 20:27	3°♏01'02	1°08'31
max. Earth dist.	11066 Oct 18 01:20	5°♏44'44	1.72848 AU
	11066 Nov 06 16:04	0°♐	
evening rise	11066 Nov 22 00:45	18°♐56'49	
	11066 Dec 01 00:18	0°♑	
	11066 Dec 25 11:31	0°♒	
desc. node	11067 Jan 03 08:08	10°♒49'23	
	11067 Jan 19 02:00	0°♓	
	11067 Feb 12 19:40	0°♈	
	11067 Mar 09 17:24	0°♉	
	11067 Apr 03 23:32	0°♊	
asc. node	11067 Apr 26 06:19	25°♊42'49	
	11067 Apr 30 01:52	0°♋	
evening max el	11067 May 24 00:23	25°♋34'32	46°52'08
	11067 May 28 11:45	0°♌	
greatest brilliancy	11067 Jul 03 05:03	26°♌19'27	-4.9m
retrograde	11067 Jul 13 09:38	28°♌16'58	
evening set	11067 Jul 28 14:57	23°♌45'38	
inferior conj	11067 Aug 03 05:38	20°♌26'22	3°17'37
minimum elong	11067 Aug 03 12:52	20°♌15'16	3°14'58
min. Earth dist.	11067 Aug 03 05:08	20°♌27'08	0.27151 AU
morning rise	11067 Aug 09 10:59	16°♌47'18	
desc. node	11067 Aug 16 06:10	13°♌51'35	
direct	11067 Aug 23 23:16	12°♌39'41	
greatest brilliancy	11067 Sep 02 22:03	14°♌28'47	-4.8m

	11067 Sep 27 11:45	0°♍	
morning max el	11067 Oct 12 09:02	13°♍30'42	46°06'50
	11067 Oct 28 14:52	0°♎	
	11067 Nov 24 22:42	0°♏	
asc. node	11067 Dec 07 04:56	14°♏02'04	
	11067 Dec 20 21:22	0°♐	
	11068 Jan 15 02:06	0°♑	
	11068 Feb 08 19:53	0°♒	
	11068 Mar 04 06:37	0°♓	
desc. node	11068 Mar 27 21:44	29°♓14'50	
	11068 Mar 28 12:17	0°♈	
morning set	11068 Apr 09 02:04	14°♈24'10	
	11068 Apr 21 13:53	0°♉	
	11068 May 15 12:29	0°♊	
max. Earth dist.	11068 May 17 17:00	2°♊44'50	1.71392 AU
superior conj	11068 May 19 09:50	4°♊53'04	-1°27'09
minimum elong	11068 May 19 07:09	4°♊44'38	1°27'42
	11068 Jun 08 09:40	0°♋	
evening rise	11068 Jun 28 19:31	25°♋37'12	
	11068 Jul 02 07:25	0°♌	
asc. node	11068 Jul 18 15:00	20°♌24'28	
	11068 Jul 26 07:36	0°♍	
	11068 Aug 19 11:54	0°♎	
	11068 Sep 12 22:24	0°♏	
	11068 Oct 07 18:36	0°♐	
	11068 Nov 02 06:39	0°♑	
desc. node	11068 Nov 07 11:04	5°♑57'53	
	11068 Nov 28 22:06	0°♒	
evening max el	11068 Dec 26 10:43	28°♒27'30	45°53'08
	11068 Dec 28 01:29	0°♓	
greatest brilliancy	11069 Feb 03 15:16	26°♓57'18	-4.8m
retrograde	11069 Feb 13 11:26	28°♓44'11	
evening set	11069 Feb 28 02:29	24°♓32'20	
asc. node	11069 Feb 28 12:02	24°♓19'21	
inferior conj	11069 Mar 06 10:45	20°♓47'00	1°29'46
minimum elong	11069 Mar 06 07:20	20°♓52'17	1°28'52
min. Earth dist.	11069 Mar 06 17:49	20°♓36'02	0.27775 AU
morning rise	11069 Mar 12 11:42	17°♓10'32	
direct	11069 Mar 27 11:52	12°♓43'04	
greatest brilliancy	11069 Apr 07 02:30	14°♓49'33	-4.8m
	11069 Apr 30 11:41	0°♈	
morning max el	11069 May 16 20:39	15°♈18'05	46°50'35
	11069 May 30 21:54	0°♉	
desc. node	11069 Jun 20 10:23	22°♉58'21	
	11069 Jun 26 12:06	0°♊	
	11069 Jul 21 20:00	0°♋	
	11069 Aug 15 15:10	0°♌	
	11069 Sep 09 05:05	0°♍	
	11069 Oct 03 16:40	0°♎	
asc. node	11069 Oct 11 05:09	9°♎13'54	
	11069 Oct 28 02:38	0°♏	
morning set	11069 Nov 17 04:44	24°♏44'16	
	11069 Nov 21 11:11	0°♐	
	11069 Dec 15 18:52	0°♑	
superior conj	11069 Dec 23 19:59	9°♑55'38	1°15'29
minimum elong	11069 Dec 24 04:11	10°♑20'53	1°15'56
max. Earth dist.	11069 Dec 23 21:10	9°♑59'18	1.73205 AU
	11070 Jan 09 02:30	0°♒	
evening rise	11070 Jan 30 09:24	26°♒15'03	
desc. node	11070 Jan 30 20:50	26°♒50'19	
	11070 Feb 02 10:22	0°♓	
	11070 Feb 26 18:03	0°♈	
	11070 Mar 23 01:11	0°♉	
	11070 Apr 16 08:39	0°♊	
	11070 May 10 19:15	0°♋	
asc. node	11070 May 23 17:04	15°♋41'47	
	11070 Jun 04 14:10	0°♌	
	11070 Jun 30 02:35	0°♍	
	11070 Jul 27 06:17	0°♎	
evening max el	11070 Aug 03 23:08	7°♎53'08	46°31'25
	11070 Aug 29 05:52	0°♏	
greatest brilliancy	11070 Sep 11 21:12	7°♏38'59	-4.8m
desc. node	11070 Sep 12 16:34	7°♏57'13	
retrograde	11070 Sep 23 00:12	9°♏55'10	
evening set	11070 Oct 09 05:36	4°♏48'42	
min. Earth dist.	11070 Oct 13 12:12	2°♏13'40	0.28470 AU
inferior conj	11070 Oct 14 08:24	1°♏42'14	-6°50'35
minimum elong	11070 Oct 13 22:18	1°♏57'56	6°48'24
	11070 Oct 17 02:46	30°℞♎	
morning rise	11070 Oct 18 15:29	29°♎05'28	
direct	11070 Nov 04 14:36	23°♎39'03	
greatest brilliancy	11070 Nov 14 05:08	25°♎20'03	-4.7m
	11070 Nov 24 03:50	0°♏	
morning max el	11070 Dec 23 10:27	23°♏37'48	45°41'45
	11070 Dec 29 21:53	0°♐	
asc. node	11071 Jan 03 16:40	4°♐52'12	
	11071 Jan 26 22:29	0°♑	
	11071 Feb 21 23:28	0°♒	
	11071 Mar 19 02:29	0°♓	
	11071 Apr 12 17:08	0°♈	
desc. node	11071 Apr 25 11:06	15°♈42'49	
	11071 May 06 23:46	0°♉	
	11071 May 31 01:06	0°♊	
	11071 Jun 23 23:38	0°♋	
morning set	11071 Jun 24 16:36	0°♋53'11	
	11071 Jul 17 21:43	0°♌	
superior conj	11071 Aug 03 09:01	20°♌37'13	-0°30'34
minimum elong	11071 Aug 03 16:20	21°♌00'04	0°30'41
max. Earth dist.	11071 Aug 06 02:01	24°♌00'25	1.71768 AU
	11071 Aug 10 21:06	0°♍	
asc. node	11071 Aug 16 04:05	6°♍36'26	
	11071 Sep 03 22:45	0°♎	
evening rise	11071 Sep 11 07:41	9°♎09'44	
	11071 Sep 28 03:21	0°♏	
	11071 Oct 22 12:05	0°♐	
	11071 Nov 16 02:56	0°♑	
desc. node	11071 Dec 05 22:09	23°♑49'44	
	11071 Dec 11 02:12	0°♒	
	11072 Jan 05 12:34	0°♓	
	11072 Jan 31 15:22	0°♈	
	11072 Feb 28 03:54	0°♉	
evening max el	11072 Mar 08 13:47	9°♉33'47	46°26'13
asc. node	11072 Mar 27 22:12	27°♉04'33	
	11072 Mar 31 17:07	0°♊	
greatest brilliancy	11072 Apr 17 19:33	9°♊42'38	-4.9m
retrograde	11072 Apr 27 11:32	11°♊27'39	
evening set	11072 May 15 10:02	5°♊19'46	
inferior conj	11072 May 18 03:40	3°♊39'07	9°08'26
minimum elong	11072 May 18 00:32	3°♊43'59	9°07'46
min. Earth dist.	11072 May 18 05:51	3°♊35'45	0.27268 AU
morning rise	11072 May 20 15:02	2°♊07'56	
	11072 May 24 07:38	30°℞♉	
direct	11072 Jun 07 22:10	25°♉47'12	
greatest brilliancy	11072 Jun 17 16:01	27°♉34'53	-4.9m
	11072 Jun 23 05:06	0°♊	
desc. node	11072 Jul 17 21:36	18°♊26'54	
morning max el	11072 Jul 28 07:56	28°♊29'25	46°51'34
	11072 Jul 29 19:55	0°♋	
	11072 Aug 26 16:55	0°♌	
	11072 Sep 21 19:41	0°♍	
	11072 Oct 17 05:31	0°♎	

asc. node	11072 Nov 07 18:14	25°♎48'00	
	11072 Nov 11 05:50	0°♏	
	11072 Dec 05 23:18	0°♐	
	11072 Dec 30 11:43	0°♑	
	11073 Jan 23 20:42	0°♒	
morning set	11073 Jan 24 20:28	1°♒13'18	
	11073 Feb 17 03:17	0°♓	
desc. node	11073 Feb 27 10:06	12°♓44'45	
max. Earth dist.	11073 Mar 01 01:28	14°♓46'50	1.72490 AU
superior conj	11073 Mar 03 22:51	18°♓22'01	-0°11'00
minimum elong	11073 Mar 03 20:16	18°♓14'03	0°10'41
behind sun begin	11073 Mar 03 01:53	17°♓16'59	
behind sun end	11073 Mar 04 14:40	19°♓11'07	
	11073 Mar 13 07:39	0°♈	
	11073 Apr 06 09:41	0°♉	
evening rise	11073 Apr 12 01:02	7°♉02'23	
	11073 Apr 30 09:56	0°♊	
	11073 May 24 10:04	0°♋	
	11073 Jun 17 12:33	0°♌	
asc. node	11073 Jun 20 04:35	3°♌18'25	
	11073 Jul 11 20:22	0°♍	
	11073 Aug 05 13:34	0°♎	
	11073 Aug 30 23:35	0°♏	
	11073 Sep 26 19:48	0°♐	
desc. node	11073 Oct 10 02:36	13°♐44'55	
evening max el	11073 Oct 13 20:20	17°♐25'37	45°55'59
	11073 Oct 27 15:29	0°♑	
greatest brilliancy	11073 Nov 22 00:25	16°♑01'25	-4.7m
retrograde	11073 Dec 01 21:47	17°♑48'16	
evening set	11073 Dec 19 14:43	11°♑55'11	
inferior conj	11073 Dec 23 09:52	9°♑34'04	-7°41'45
minimum elong	11073 Dec 23 18:24	9°♑20'38	7°39'55
min. Earth dist.	11073 Dec 23 20:20	9°♑17'36	0.28955 AU
morning rise	11073 Dec 27 21:55	6°♑47'22	
direct	11074 Jan 13 20:26	1°♑17'40	
greatest brilliancy	11074 Jan 24 17:05	3°♑26'15	-4.8m
asc. node	11074 Jan 31 03:34	6°♑26'06	
	11074 Mar 01 19:13	0°♒	
morning max el	11074 Mar 04 07:12	2°♒26'23	46°05'46
	11074 Mar 30 08:14	0°♓	
	11074 Apr 25 10:23	0°♈	
	11074 May 20 11:50	0°♉	
desc. node	11074 May 23 00:05	3°♉02'47	
	11074 Jun 14 00:21	0°♊	
	11074 Jul 08 06:06	0°♋	
	11074 Aug 01 09:11	0°♌	
	11074 Aug 25 12:01	0°♍	
morning set	11074 Sep 05 20:43	14°♍07'14	
asc. node	11074 Sep 12 17:29	22°♍38'49	
	11074 Sep 18 15:40	0°♎	
	11074 Oct 12 20:21	0°♏	
superior conj	11074 Oct 13 22:33	1°♏21'07	1°06'24
minimum elong	11074 Oct 13 12:50	0°♏51'01	1°06'22
max. Earth dist.	11074 Oct 15 17:27	3°♏33'55	1.72819 AU
	11074 Nov 06 02:27	0°♐	
evening rise	11074 Nov 19 17:52	16°♐49'37	
	11074 Nov 30 10:48	0°♑	
	11074 Dec 24 22:14	0°♒	
desc. node	11075 Jan 02 10:08	10°♒22'22	
	11075 Jan 18 13:05	0°♓	
	11075 Feb 12 07:17	0°♈	
	11075 Mar 09 05:52	0°♉	
	11075 Apr 03 13:23	0°♊	
asc. node	11075 Apr 25 08:14	25°♊03'02	
	11075 Apr 29 18:31	0°♋	
evening max el	11075 May 21 13:20	23°♋10'26	46°52'07
	11075 May 28 12:41	0°♌	
greatest brilliancy	11075 Jun 30 19:22	23°♌57'10	-4.9m
retrograde	11075 Jul 10 23:25	25°♌54'25	
evening set	11075 Jul 26 06:43	21°♌19'23	
inferior conj	11075 Jul 31 18:47	18°♌04'00	3°39'50
minimum elong	11075 Aug 01 02:44	17°♌51'50	3°37'00
min. Earth dist.	11075 Jul 31 19:14	18°♌03'20	0.27135 AU
morning rise	11075 Aug 06 22:56	14°♌26'54	
desc. node	11075 Aug 15 08:18	11°♌03'17	
direct	11075 Aug 21 12:07	10°♌17'11	
greatest brilliancy	11075 Aug 31 11:31	12°♌07'16	-4.8m
	11075 Sep 27 18:55	0°♍	
morning max el	11075 Oct 09 23:51	11°♍15'01	46°08'30
	11075 Oct 28 08:32	0°♎	
	11075 Nov 24 12:39	0°♏	
asc. node	11075 Dec 06 06:55	13°♏30'08	
	11075 Dec 20 09:39	0°♐	
	11076 Jan 14 13:33	0°♑	
	11076 Feb 08 06:53	0°♒	
	11076 Mar 03 17:24	0°♓	
desc. node	11076 Mar 26 23:35	28°♓47'23	
	11076 Mar 27 22:58	0°♈	
morning set	11076 Apr 06 14:14	11°♈59'15	
	11076 Apr 21 00:32	0°♉	
	11076 May 14 23:07	0°♊	
max. Earth dist.	11076 May 15 03:30	0°♊13'45	1.71410 AU
superior conj	11076 May 16 21:14	2°♊24'45	-1°26'38
minimum elong	11076 May 16 17:31	2°♊13'06	1°27'09
	11076 Jun 07 20:19	0°♋	
evening rise	11076 Jun 26 06:38	23°♋08'08	
	11076 Jul 01 18:06	0°♌	
asc. node	11076 Jul 17 17:00	19°♌57'04	
	11076 Jul 25 18:25	0°♍	
	11076 Aug 18 22:55	0°♎	
	11076 Sep 12 09:45	0°♏	
	11076 Oct 07 06:34	0°♐	
	11076 Nov 01 19:47	0°♑	
desc. node	11076 Nov 06 13:00	5°♑24'48	
	11076 Nov 28 13:51	0°♒	
evening max el	11076 Dec 24 02:23	26°♒16'21	45°52'30
	11076 Dec 28 01:04	0°♓	
greatest brilliancy	11077 Feb 01 05:06	24°♓40'52	-4.8m
retrograde	11077 Feb 11 01:58	26°♓27'44	
evening set	11077 Feb 25 17:05	22°♓15'37	
asc. node	11077 Feb 27 14:02	21°♓12'36	
inferior conj	11077 Mar 04 01:12	18°♓29'58	1°07'30
minimum elong	11077 Mar 03 22:37	18°♓33'58	1°06'52
min. Earth dist.	11077 Mar 04 08:35	18°♓18'30	0.27811 AU
morning rise	11077 Mar 10 03:44	14°♓51'18	
direct	11077 Mar 25 03:21	10°♓25'42	
greatest brilliancy	11077 Apr 04 17:32	12°♓32'00	-4.8m
	11077 Apr 30 18:18	0°♈	
morning max el	11077 May 14 11:48	13°♈00'41	46°49'25
	11077 May 30 15:45	0°♉	
desc. node	11077 Jun 19 12:24	22°♉21'06	
	11077 Jun 26 02:30	0°♊	
	11077 Jul 21 08:48	0°♋	
	11077 Aug 15 03:04	0°♌	
	11077 Sep 08 16:25	0°♍	
	11077 Oct 03 03:37	0°♎	
asc. node	11077 Oct 10 06:55	8°♎46'01	
	11077 Oct 27 13:19	0°♏	
morning set	11077 Nov 14 21:42	22°♏36'13	
	11077 Nov 20 21:41	0°♐	
	11077 Dec 15 05:18	0°♑	

superior conj	11077 Dec 21 13:10	7°♑48'23	1°17'01
minimum elong	11077 Dec 21 20:56	8°♑12'20	1°17'30
max. Earth dist.	11077 Dec 21 17:21	8°♑01'17	1.73206 AU
	11078 Jan 08 12:58	0°♒	
evening rise	11078 Jan 28 01:20	24°♒03'39	
desc. node	11078 Jan 29 22:49	26°♒23'49	
	11078 Feb 01 20:57	0°♓	
	11078 Feb 26 04:51	0°♈	
	11078 Mar 22 12:18	0°♉	
	11078 Apr 15 20:10	0°♊	
	11078 May 10 07:23	0°♋	
asc. node	11078 May 22 19:00	15°♋09'30	
	11078 Jun 04 03:18	0°♌	
	11078 Jun 29 17:36	0°♍	
	11078 Jul 27 01:58	0°♎	
evening max el	11078 Aug 01 14:47	5°♎37'53	46°32'41
	11078 Aug 30 05:00	0°♏	
greatest brilliancy	11078 Sep 09 12:54	5°♏25'06	-4.8m
desc. node	11078 Sep 11 18:28	6°♏12'34	
retrograde	11078 Sep 20 15:45	7°♏40'55	
evening set	11078 Oct 06 17:50	2°♏39'44	
min. Earth dist.	11078 Oct 11 03:01	0°♏00'51	0.28415 AU
	11078 Oct 11 03:34	30°℞♎	
inferior conj	11078 Oct 11 23:37	29°♎28'47	-6°37'22
minimum elong	11078 Oct 11 13:23	29°♎44'42	6°35'03
morning rise	11078 Oct 16 09:29	26°♎47'55	
direct	11078 Nov 02 05:50	21°♎26'39	
greatest brilliancy	11078 Nov 11 19:00	23°♎06'27	-4.7m
	11078 Nov 25 07:48	0°♏	
morning max el	11078 Dec 21 00:37	21°♏23'14	45°41'47
	11078 Dec 29 17:25	0°♐	
asc. node	11079 Jan 02 18:40	4°♐09'51	
	11079 Jan 26 13:04	0°♑	
	11079 Feb 21 12:10	0°♒	
	11079 Mar 18 14:17	0°♓	
	11079 Apr 12 04:28	0°♈	
desc. node	11079 Apr 24 12:58	15°♈14'03	
	11079 May 06 10:51	0°♉	
	11079 May 30 12:02	0°♊	
morning set	11079 Jun 22 04:14	28°♊25'11	
	11079 Jun 23 10:28	0°♋	
	11079 Jul 17 08:29	0°♌	
superior conj	11079 Jul 31 21:38	18°♌13'00	-0°34'06
minimum elong	11079 Aug 01 05:40	18°♌38'09	0°34'11
max. Earth dist.	11079 Aug 03 14:10	21°♌34'47	1.71728 AU
	11079 Aug 10 07:49	0°♍	
asc. node	11079 Aug 15 05:56	6°♍08'47	
	11079 Sep 03 09:27	0°♎	
evening rise	11079 Sep 08 22:34	6°♎53'39	
	11079 Sep 27 14:06	0°♏	
	11079 Oct 21 23:01	0°♐	
	11079 Nov 15 14:14	0°♑	
desc. node	11079 Dec 05 00:11	23°♑20'38	
	11079 Dec 10 14:08	0°♒	
	11080 Jan 05 01:35	0°♓	
	11080 Jan 31 06:25	0°♈	
	11080 Feb 27 23:49	0°♉	
evening max el	11080 Mar 06 02:29	7°♉10'26	46°24'50
asc. node	11080 Mar 27 00:05	25°♉53'59	
	11080 Apr 01 14:26	0°♊	
greatest brilliancy	11080 Apr 15 08:56	7°♊19'24	-4.9m
retrograde	11080 Apr 24 23:59	9°♊03'56	
evening set	11080 May 12 20:04	3°♊00'43	
inferior conj	11080 May 15 16:53	1°♊15'20	9°04'33
minimum elong	11080 May 15 12:47	1°♊21'39	9°03'46
min. Earth dist.	11080 May 15 18:58	1°♊12'05	0.27281 AU
	11080 May 17 17:46	30°℞♉	
morning rise	11080 May 18 05:29	29°♉42'09	
direct	11080 Jun 05 10:51	23°♉22'52	
greatest brilliancy	11080 Jun 15 06:02	25°♉11'15	-4.9m
	11080 Jun 25 00:47	0°♊	
desc. node	11080 Jul 16 23:40	17°♊27'48	
morning max el	11080 Jul 25 20:30	26°♊03'32	46°52'33
	11080 Jul 29 17:42	0°♋	
	11080 Aug 26 08:52	0°♌	
	11080 Sep 21 09:17	0°♍	
	11080 Oct 16 17:50	0°♎	
asc. node	11080 Nov 06 20:12	25°♎18'56	
	11080 Nov 10 17:22	0°♏	
	11080 Dec 05 10:22	0°♐	
	11080 Dec 29 22:32	0°♑	
morning set	11081 Jan 22 12:56	29°♑03'01	
	11081 Jan 23 07:25	0°♒	
	11081 Feb 16 13:59	0°♓	
desc. node	11081 Feb 26 11:57	12°♓17'17	
max. Earth dist.	11081 Feb 26 18:18	12°♓37'00	1.72529 AU
superior conj	11081 Mar 01 13:19	16°♓04'48	-0°07'27
minimum elong	11081 Mar 01 11:36	15°♓59'28	0°07'08
behind sun begin	11081 Feb 28 13:37	14°♓51'16	
behind sun end	11081 Mar 02 09:35	17°♓07'41	
	11081 Mar 12 18:22	0°♈	
	11081 Apr 05 20:29	0°♉	
evening rise	11081 Apr 09 14:24	4°♉40'29	
	11081 Apr 29 20:53	0°♊	
	11081 May 23 21:14	0°♋	
	11081 Jun 17 00:01	0°♌	
asc. node	11081 Jun 19 06:37	2°♌49'08	
	11081 Jul 11 08:16	0°♍	
	11081 Aug 05 02:14	0°♎	
	11081 Aug 30 13:42	0°♏	
	11081 Sep 26 13:20	0°♐	
desc. node	11081 Oct 09 04:34	12°♐57'57	
evening max el	11081 Oct 11 10:35	15°♐10'15	45°56'59
	11081 Oct 27 22:45	0°♑	
greatest brilliancy	11081 Nov 19 15:15	13°♑50'09	-4.7m
retrograde	11081 Nov 29 13:48	15°♑38'20	
evening set	11081 Dec 17 09:09	9°♑40'54	
inferior conj	11081 Dec 21 01:58	7°♑23'29	-7°50'51
minimum elong	11081 Dec 21 10:03	7°♑10'47	7°49'09
min. Earth dist.	11081 Dec 21 11:38	7°♑08'18	0.28980 AU
morning rise	11081 Dec 25 10:48	4°♑41'45	
	11082 Jan 04 20:52	30°℞♐	
direct	11082 Jan 11 12:16	29°♐06'48	
	11082 Jan 18 09:15	0°♑	
greatest brilliancy	11082 Jan 22 09:04	1°♑15'28	-4.8m
asc. node	11082 Jan 30 05:33	5°♑02'46	
	11082 Mar 01 17:37	0°♒	
morning max el	11082 Mar 01 22:59	0°♒13'13	46°04'24
	11082 Mar 30 00:00	0°♓	
	11082 Apr 24 23:51	0°♈	
	11082 May 20 00:13	0°♉	
desc. node	11082 May 22 02:05	2°♉31'29	
	11082 Jun 13 12:07	0°♊	
	11082 Jul 07 17:30	0°♋	
	11082 Jul 31 20:19	0°♌	
	11082 Aug 24 22:58	0°♍	
morning set	11082 Sep 03 11:26	11°♍49'59	
asc. node	11082 Sep 11 19:17	22°♍10'45	
	11082 Sep 18 02:29	0°♎	
superior conj	11082 Oct 11 14:49	29°♎09'34	1°04'12
minimum elong	11082 Oct 11 04:57	28°♎39'01	1°04'07

	11082 Oct 12	07:06	0°♏		
max. Earth dist.	11082 Oct 13	09:35	1°♏22'00	1.72792 AU	
	11082 Nov 05	13:12	0°♐		
evening rise	11082 Nov 17	10:45	14°♐40'37		
	11082 Nov 29	21:38	0°♑		
	11082 Dec 24	09:16	0°♒		
desc. node	11083 Jan 01	12:04	9°♒54'15		
	11083 Jan 18	00:29	0°♓		
	11083 Feb 11	19:16	0°♈		
	11083 Mar 08	18:43	0°♉		
	11083 Apr 03	03:43	0°♊		
asc. node	11083 Apr 24	10:17	24°♊22'19		
	11083 Apr 29	11:51	0°♋		
evening max el	11083 May 19	03:26	20°♋48'30	46°52'06	
	11083 May 28	15:18	0°♌		
greatest brilliancy	11083 Jun 28	09:24	21°♌34'08	-4.9m	
retrograde	11083 Jul 08	13:38	23°♌31'21		
evening set	11083 Jul 23	22:43	18°♌52'36		
inferior conj	11083 Jul 29	08:02	15°♌41'05	4°01'37	
minimum elong	11083 Jul 29	16:37	15°♌27'57	3°58'37	
min. Earth dist.	11083 Jul 29	09:02	15°♌39'32	0.27122 AU	
morning rise	11083 Aug 04	10:44	12°♌06'18		
desc. node	11083 Aug 14	10:08	8°♌20'35		
direct	11083 Aug 19	01:37	7°♌54'19		
greatest brilliancy	11083 Aug 29	00:25	9°♌44'31	-4.8m	
	11083 Sep 28	00:14	0°♍		
morning max el	11083 Oct 07	15:03	8°♍59'20	46°09'58	
	11083 Oct 28	02:11	0°♎		
	11083 Nov 24	02:51	0°♏		
asc. node	11083 Dec 05	08:54	12°♏57'11		
	11083 Dec 19	22:17	0°♐		
	11084 Jan 14	01:20	0°♑		
	11084 Feb 07	18:12	0°♒		
	11084 Mar 03	04:28	0°♓		
desc. node	11084 Mar 26	01:23	28°♓18'53		
	11084 Mar 27	09:56	0°♈		
morning set	11084 Apr 04	02:31	9°♈33'59		
	11084 Apr 20	11:30	0°♉		
max. Earth dist.	11084 May 12	12:51	27°♉38'00	1.71430 AU	
superior conj	11084 May 14	08:47	29°♉55'52	-1°25'57	
minimum elong	11084 May 14	04:04	29°♉41'05	1°26'25	
	11084 May 14	10:06	0°♊		
	11084 Jun 07	07:18	0°♋		
evening rise	11084 Jun 23	17:52	20°♋38'21		
	11084 Jul 01	05:08	0°♌		
asc. node	11084 Jul 16	18:51	19°♌28'16		
	11084 Jul 25	05:32	0°♍		
	11084 Aug 18	10:14	0°♎		
	11084 Sep 11	21:25	0°♏		
	11084 Oct 06	18:54	0°♐		
	11084 Nov 01	09:24	0°♑		
desc. node	11084 Nov 05	15:00	4°♑50'40		
	11084 Nov 28	06:19	0°♒		
evening max el	11084 Dec 21	18:10	24°♒04'17	45°51'54	
	11084 Dec 28	02:22	0°♓		
greatest brilliancy	11085 Jan 29	19:46	22°♓24'38	-4.8m	
retrograde	11085 Feb 08	16:13	24°♓10'39		
evening set	11085 Feb 23	08:05	19°♓58'14		
asc. node	11085 Feb 26	15:55	18°♓03'24		
inferior conj	11085 Mar 01	15:50	16°♓12'36	0°45'17	
minimum elong	11085 Mar 01	14:06	16°♓15'18	0°44'56	
min. Earth dist.	11085 Mar 01	23:49	16°♓00'12	0.27844 AU	
morning rise	11085 Mar 07	19:44	12°♓31'46		
direct	11085 Mar 22	18:41	8°♓08'05		
greatest brilliancy	11085 Apr 02	08:55	10°♓14'13	-4.8m	
	11085 Apr 30	23:09	0°♈		
morning max el	11085 May 12	02:06	10°♈40'22	46°48'06	
	11085 May 30	09:29	0°♉		
desc. node	11085 Jun 18	14:20	21°♉43'05		
	11085 Jun 25	17:01	0°♊		
	11085 Jul 20	21:50	0°♋		
	11085 Aug 14	15:14	0°♌		
	11085 Sep 08	04:01	0°♍		
	11085 Oct 02	14:49	0°♎		
asc. node	11085 Oct 09	08:53	8°♎17'59		
	11085 Oct 27	00:15	0°♏		
morning set	11085 Nov 12	14:44	20°♏27'32		
	11085 Nov 20	08:27	0°♐		
	11085 Dec 14	16:02	0°♑		
superior conj	11085 Dec 19	06:23	5°♑40'20	1°18'27	
minimum elong	11085 Dec 19	13:40	6°♑02'47	1°18'56	
max. Earth dist.	11085 Dec 19	11:38	5°♑56'30	1.73210 AU	
	11086 Jan 07	23:45	0°♒		
evening rise	11086 Jan 25	17:08	21°♒50'49		
desc. node	11086 Jan 29	00:37	25°♒55'45		
	11086 Feb 01	07:53	0°♓		
	11086 Feb 25	15:59	0°♈		
	11086 Mar 21	23:43	0°♉		
	11086 Apr 15	08:01	0°♊		
	11086 May 09	19:52	0°♋		
asc. node	11086 May 21	21:01	14°♋36'31		
	11086 Jun 03	16:51	0°♌		
	11086 Jun 29	09:11	0°♍		
	11086 Jul 26	22:41	0°♎		
evening max el	11086 Jul 30	05:40	3°♎19'40	46°33'53	
	11086 Aug 31	14:03	0°♏		
greatest brilliancy	11086 Sep 07	05:10	3°♏10'53	-4.8m	
desc. node	11086 Sep 10	20:28	4°♏23'14		
retrograde	11086 Sep 18	06:59	5°♏25'51		
evening set	11086 Oct 04	06:10	0°♏29'49		
	11086 Oct 05	02:47	30°℞♎		
min. Earth dist.	11086 Oct 08	18:17	27°♎46'44	0.28358 AU	
inferior conj	11086 Oct 09	14:50	27°♎14'42	-6°23'25	
minimum elong	11086 Oct 09	04:34	27°♎30'44	6°21'02	
morning rise	11086 Oct 14	03:28	24°♎29'40		
direct	11086 Oct 30	20:25	19°♎13'34		
greatest brilliancy	11086 Nov 09	09:23	20°♎52'44	-4.7m	
	11086 Nov 26	04:22	0°♏		
morning max el	11086 Dec 18	14:12	19°♏06'32	45°41'52	
	11086 Dec 29	12:36	0°♐		
asc. node	11087 Jan 01	20:37	3°♐27'19		
	11087 Jan 26	03:43	0°♑		
	11087 Feb 21	01:04	0°♒		
	11087 Mar 18	02:20	0°♓		
	11087 Apr 11	16:02	0°♈		
desc. node	11087 Apr 23	15:01	14°♈45'09		
	11087 May 05	22:08	0°♉		
	11087 May 29	23:08	0°♊		
morning set	11087 Jun 19	15:46	25°♊56'17		
	11087 Jun 22	21:28	0°♋		
	11087 Jul 16	19:26	0°♌		
superior conj	11087 Jul 29	10:16	15°♌48'16	-0°37'34	
minimum elong	11087 Jul 29	18:59	16°♌15'32	0°37'39	
max. Earth dist.	11087 Jul 31	23:34	19°♌00'01	1.71694 AU	
	11087 Aug 09	18:44	0°♍		
asc. node	11087 Aug 14	07:47	5°♍40'30		
	11087 Sep 02	20:21	0°♎		
evening rise	11087 Sep 06	13:26	4°♎36'50		
	11087 Sep 27	01:03	0°♏		
	11087 Oct 21	10:08	0°♐		
	11087 Nov 15	01:42	0°♑		

desc. node	11087 Dec 04 02:09	22°♉50'53	
	11087 Dec 10 02:16	0°♒	
	11088 Jan 04 14:52	0°♓	
	11088 Jan 30 21:54	0°♈	
	11088 Feb 27 20:41	0°♉	
evening max el	11088 Mar 03 15:06	4°♉46'20	46°23'27
asc. node	11088 Mar 26 02:11	24°♉41'01	
	11088 Apr 02 20:24	0°♊	
greatest brilliancy	11088 Apr 12 21:57	4°♊54'57	-4.9m
retrograde	11088 Apr 22 12:45	6°♊39'38	
evening set	11088 May 10 05:35	0°♊41'26	
	11088 May 11 09:02	30°℞♉	
inferior conj	11088 May 13 06:02	28°♉50'49	8°59'34
minimum elong	11088 May 13 01:02	28°♉58'31	8°58'41
min. Earth dist.	11088 May 13 07:57	28°♉47'50	0.27294 AU
morning rise	11088 May 15 20:26	27°♉14'58	
direct	11088 Jun 02 23:30	20°♉57'44	
greatest brilliancy	11088 Jun 12 19:56	22°♉47'07	-4.9m
	11088 Jun 26 06:57	0°♊	
desc. node	11088 Jul 16 01:35	16°♊29'23	
morning max el	11088 Jul 23 09:55	23°♊39'27	46°53'28
	11088 Jul 29 14:49	0°♋	
	11088 Aug 26 00:38	0°♌	
	11088 Sep 20 22:50	0°♍	
	11088 Oct 16 06:11	0°♎	
asc. node	11088 Nov 05 22:10	24°♎49'34	
	11088 Nov 10 04:58	0°♏	
	11088 Dec 04 21:30	0°♐	
	11088 Dec 29 09:24	0°♑	
morning set	11089 Jan 20 05:35	26°♑53'12	
	11089 Jan 22 18:09	0°♒	
	11089 Feb 16 00:42	0°♓	
max. Earth dist.	11089 Feb 24 12:58	10°♓32'43	1.72571 AU
desc. node	11089 Feb 25 13:50	11°♓49'49	
superior conj	11089 Feb 27 03:47	13°♓47'30	-0°03'52
minimum elong	11089 Feb 27 02:55	13°♓44'47	0°03'35
behind sun begin	11089 Feb 26 03:10	12°♓31'09	
behind sun end	11089 Feb 28 02:40	14°♓58'27	
	11089 Mar 12 05:09	0°♈	
	11089 Apr 05 07:22	0°♉	
evening rise	11089 Apr 07 03:40	2°♉18'07	
	11089 Apr 29 07:56	0°♊	
	11089 May 23 08:28	0°♋	
	11089 Jun 16 11:32	0°♌	
asc. node	11089 Jun 18 08:27	2°♌19'04	
	11089 Jul 10 20:13	0°♍	
	11089 Aug 04 14:58	0°♎	
	11089 Aug 30 03:59	0°♏	
	11089 Sep 26 07:18	0°♐	
desc. node	11089 Oct 08 06:39	12°♐10'31	
evening max el	11089 Oct 09 01:47	12°♐57'10	45°58'00
	11089 Oct 28 08:45	0°♑	
greatest brilliancy	11089 Nov 17 05:32	11°♑38'21	-4.7m
retrograde	11089 Nov 27 06:09	13°♑28'17	
evening set	11089 Dec 15 03:24	7°♑26'46	
inferior conj	11089 Dec 18 17:59	5°♑12'50	-7°59'15
minimum elong	11089 Dec 19 01:34	5°♑00'55	7°57'42
min. Earth dist.	11089 Dec 19 02:29	4°♑59'28	0.29000 AU
morning rise	11089 Dec 22 23:38	2°♑36'05	
	11089 Dec 27 18:51	30°℞♐	
direct	11090 Jan 09 04:26	26°♐56'05	
greatest brilliancy	11090 Jan 20 00:16	29°♐04'09	-4.8m
	11090 Jan 22 06:59	0°♑	
asc. node	11090 Jan 29 07:26	3°♑42'17	
morning max el	11090 Feb 27 15:24	28°♑02'12	46°03'01
	11090 Mar 01 14:58	0°♒	
	11090 Mar 29 15:23	0°♓	
	11090 Apr 24 13:07	0°♈	
	11090 May 19 12:29	0°♉	
desc. node	11090 May 21 03:58	2°♉00'05	
	11090 Jun 12 23:49	0°♊	
	11090 Jul 07 04:50	0°♋	
	11090 Jul 31 07:22	0°♌	
	11090 Aug 24 09:47	0°♍	
morning set	11090 Sep 01 01:52	9°♍32'12	
asc. node	11090 Sep 10 21:14	21°♍43'30	
	11090 Sep 17 13:09	0°♎	
superior conj	11090 Oct 09 06:48	26°♎57'31	1°01'51
minimum elong	11090 Oct 08 20:51	26°♎26'42	1°01'45
max. Earth dist.	11090 Oct 11 03:37	29°♎16'20	1.72765 AU
	11090 Oct 11 17:42	0°♏	
	11090 Nov 04 23:49	0°♐	
evening rise	11090 Nov 15 03:34	12°♐31'49	
	11090 Nov 29 08:20	0°♑	
	11090 Dec 23 20:11	0°♒	
desc. node	11090 Dec 31 13:53	9°♒26'14	
	11091 Jan 17 11:45	0°♓	
	11091 Feb 11 07:05	0°♈	
	11091 Mar 08 07:26	0°♉	
	11091 Apr 02 17:58	0°♊	
asc. node	11091 Apr 23 12:16	23°♊41'32	
	11091 Apr 29 05:21	0°♋	
evening max el	11091 May 16 18:07	18°♋28'24	46°51'47
	11091 May 28 19:30	0°♌	
greatest brilliancy	11091 Jun 25 23:18	19°♌10'41	-4.9m
retrograde	11091 Jul 06 03:28	21°♌07'21	
evening set	11091 Jul 21 14:39	16°♌25'00	
inferior conj	11091 Jul 26 20:57	13°♌17'24	4°23'12
minimum elong	11091 Jul 27 06:08	13°♌03'22	4°20'03
min. Earth dist.	11091 Jul 26 22:30	13°♌15'03	0.27108 AU
morning rise	11091 Aug 01 21:55	9°♌45'11	
desc. node	11091 Aug 13 12:10	5°♌42'45	
direct	11091 Aug 16 15:01	5°♌30'57	
greatest brilliancy	11091 Aug 26 12:43	7°♌20'39	-4.8m
	11091 Sep 28 03:35	0°♍	
morning max el	11091 Oct 05 05:35	6°♍42'18	46°11'28
	11091 Oct 27 19:13	0°♎	
	11091 Nov 23 16:39	0°♏	
asc. node	11091 Dec 04 10:45	12°♏24'46	
	11091 Dec 19 10:35	0°♐	
	11092 Jan 13 12:49	0°♑	
	11092 Feb 07 05:14	0°♒	
	11092 Mar 02 15:16	0°♓	
desc. node	11092 Mar 25 03:24	27°♓51'58	
	11092 Mar 26 20:37	0°♈	
morning set	11092 Apr 01 15:12	7°♈10'57	
	11092 Apr 19 22:08	0°♉	
max. Earth dist.	11092 May 09 21:06	24°♉59'57	1.71452 AU
superior conj	11092 May 11 20:35	27°♉28'54	-1°25'06
minimum elong	11092 May 11 14:55	27°♉11'07	1°25'32
	11092 May 13 20:44	0°♊	
	11092 Jun 06 17:58	0°♋	
evening rise	11092 Jun 21 04:59	18°♋09'02	
	11092 Jun 30 15:53	0°♌	
asc. node	11092 Jul 15 20:43	19°♌00'15	
	11092 Jul 24 16:25	0°♍	
	11092 Aug 17 21:19	0°♎	
	11092 Sep 11 08:52	0°♏	
	11092 Oct 06 07:00	0°♐	
	11092 Oct 31 22:52	0°♑	
desc. node	11092 Nov 04 16:58	4°♑17'05	

	11092 Nov 27 22:48	0°♒	
evening max el	11092 Dec 19 09:11	21°♒51'16	45°51'17
	11092 Dec 28 04:43	0°♓	
greatest brilliancy	11093 Jan 27 10:55	20°♓09'52	-4.8m
retrograde	11093 Feb 06 05:59	21°♓54'36	
evening set	11093 Feb 20 23:13	17°♓41'32	
asc. node	11093 Feb 25 18:02	14°♓53'06	
inferior conj	11093 Feb 27 06:29	13°♓56'25	0°22'56
minimum elong	11093 Feb 27 05:36	13°♓57'48	0°22'54
min. Earth dist.	11093 Feb 27 15:24	13°♓42'31	0.27876 AU
morning rise	11093 Mar 05 11:30	10°♓13'32	
direct	11093 Mar 20 09:29	5°♓51'29	
greatest brilliancy	11093 Mar 31 00:48	7°♓58'05	-4.8m
	11093 May 01 01:44	0°♈	
morning max el	11093 May 09 15:36	8°♈19'15	46°46'59
	11093 May 30 02:21	0°♉	
desc. node	11093 Jun 17 16:14	21°♉06'37	
	11093 Jun 25 06:56	0°♊	
	11093 Jul 20 10:21	0°♋	
	11093 Aug 14 02:59	0°♌	
	11093 Sep 07 15:16	0°♍	
	11093 Oct 02 01:42	0°♎	
asc. node	11093 Oct 08 10:49	7°♎50'45	
	11093 Oct 26 10:51	0°♏	
morning set	11093 Nov 10 07:25	18°♏18'41	
	11093 Nov 19 18:54	0°♐	
	11093 Dec 14 02:24	0°♑	
superior conj	11093 Dec 16 23:26	3°♑32'53	1°19'45
minimum elong	11093 Dec 17 06:11	3°♑53'41	1°20'16
max. Earth dist.	11093 Dec 17 04:56	3°♑49'49	1.73212 AU
	11094 Jan 07 10:11	0°♒	
evening rise	11094 Jan 23 08:54	19°♒39'00	
desc. node	11094 Jan 28 02:32	25°♒29'05	
	11094 Jan 31 18:28	0°♓	
	11094 Feb 25 02:48	0°♈	
	11094 Mar 21 10:50	0°♉	
	11094 Apr 14 19:31	0°♊	
	11094 May 09 07:59	0°♋	
asc. node	11094 May 20 22:55	14°♋04'25	
	11094 Jun 03 06:02	0°♌	
	11094 Jun 29 00:28	0°♍	
	11094 Jul 26 19:34	0°♎	
evening max el	11094 Jul 27 19:45	1°♎00'42	46°34'58
	11094 Sep 02 14:55	0°♏	
greatest brilliancy	11094 Sep 04 21:17	0°♏57'17	-4.8m
desc. node	11094 Sep 09 22:33	2°♏30'45	
retrograde	11094 Sep 15 22:00	3°♏11'44	
	11094 Sep 28 14:55	30°℞♎	
evening set	11094 Oct 01 18:28	28°♎20'20	
min. Earth dist.	11094 Oct 06 09:46	25°♎33'01	0.28305 AU
inferior conj	11094 Oct 07 06:01	25°♎01'27	-6°08'41
minimum elong	11094 Oct 06 19:43	25°♎17'30	6°06'13
morning rise	11094 Oct 11 21:27	22°♎12'18	
direct	11094 Oct 28 10:32	17°♎01'00	
greatest brilliancy	11094 Nov 07 00:26	18°♎40'27	-4.8m
	11094 Nov 26 19:10	0°♏	
morning max el	11094 Dec 16 03:55	16°♏51'03	45°42'04
	11094 Dec 29 06:53	0°♐	
asc. node	11094 Dec 31 22:34	2°♐46'19	
	11095 Jan 25 17:50	0°♑	
	11095 Feb 20 13:30	0°♒	
	11095 Mar 17 13:58	0°♓	
	11095 Apr 11 03:13	0°♈	
desc. node	11095 Apr 22 16:47	14°♈16'28	
	11095 May 05 09:03	0°♉	
	11095 May 29 09:53	0°♊	
morning set	11095 Jun 17 03:30	23°♊29'05	
	11095 Jun 22 08:05	0°♋	
	11095 Jul 16 05:58	0°♌	
superior conj	11095 Jul 26 23:13	13°♌25'45	-0°40'56
minimum elong	11095 Jul 27 08:33	13°♌54'58	0°41'01
max. Earth dist.	11095 Jul 29 08:26	16°♌24'50	1.71658 AU
	11095 Aug 09 05:13	0°♍	
asc. node	11095 Aug 13 09:46	5°♍13'57	
	11095 Sep 02 06:50	0°♎	
evening rise	11095 Sep 04 04:32	2°♎22'00	
	11095 Sep 26 11:36	0°♏	
	11095 Oct 20 20:54	0°♐	
	11095 Nov 14 12:53	0°♑	
desc. node	11095 Dec 03 03:58	22°♑21'35	
	11095 Dec 09 14:07	0°♒	
	11096 Jan 04 03:55	0°♓	
	11096 Jan 30 13:17	0°♈	
	11096 Feb 27 17:56	0°♉	
evening max el	11096 Mar 01 04:17	2°♉24'48	46°22'06
asc. node	11096 Mar 25 04:10	23°♉26'29	
	11096 Apr 04 15:23	0°♊	
greatest brilliancy	11096 Apr 10 10:19	2°♊30'39	-4.9m
retrograde	11096 Apr 20 01:53	4°♊16'13	
	11096 May 04 18:48	30°℞♉	
evening set	11096 May 07 14:40	28°♉23'17	
inferior conj	11096 May 10 19:05	26°♉26'56	8°53'31
minimum elong	11096 May 10 13:14	26°♉35'57	8°52'31
min. Earth dist.	11096 May 10 20:37	26°♉24'34	0.27307 AU
morning rise	11096 May 13 11:44	24°♉47'53	
direct	11096 May 31 12:43	18°♉33'15	
greatest brilliancy	11096 Jun 10 09:28	20°♉23'21	-4.9m
	11096 Jun 27 04:25	0°♊	
desc. node	11096 Jul 15 03:32	15°♊33'16	
morning max el	11096 Jul 21 00:16	21°♊18'46	46°54'33
	11096 Jul 29 10:51	0°♋	
	11096 Aug 25 15:46	0°♌	
	11096 Sep 20 11:53	0°♍	
	11096 Oct 15 18:04	0°♎	
asc. node	11096 Nov 04 23:57	24°♎20'48	
	11096 Nov 09 16:10	0°♏	
	11096 Dec 04 08:19	0°♐	
	11096 Dec 28 20:00	0°♑	
morning set	11097 Jan 17 22:17	24°♑44'15	
	11097 Jan 22 04:39	0°♒	
	11097 Feb 15 11:11	0°♓	
max. Earth dist.	11097 Feb 22 07:56	8°♓30'10	1.72609 AU
superior conj	11097 Feb 24 18:13	11°♓30'50	-0°00'15
minimum elong	11097 Feb 24 18:12	11°♓30'47	0°00'00
behind sun begin	11097 Feb 24 06:27	10°♓54'19	
behind sun end	11097 Feb 25 05:58	12°♓07'16	
desc. node	11097 Feb 24 15:48	11°♓23'19	
	11097 Mar 11 15:41	0°♈	
evening rise	11097 Apr 04 16:59	29°♈56'40	
	11097 Apr 04 18:03	0°♉	
	11097 Apr 28 18:48	0°♊	
	11097 May 22 19:34	0°♋	
	11097 Jun 15 22:54	0°♌	
asc. node	11097 Jun 17 10:22	1°♌49'42	
	11097 Jul 10 08:02	0°♍	
	11097 Aug 04 03:33	0°♎	
	11097 Aug 29 18:08	0°♏	
	11097 Sep 26 01:22	0°♐	
evening max el	11097 Oct 06 17:52	10°♐47'12	45°59'01
desc. node	11097 Oct 07 08:33	11°♐22'51	
	11097 Oct 28 21:41	0°♑	

greatest brilliancy	11097 Nov 14 19:51	9°♌27'45	-4.7m
retrograde	11097 Nov 24 22:41	11°♌19'18	
evening set	11097 Dec 12 21:41	5°♌14'06	
inferior conj	11097 Dec 16 10:10	3°♌03'14	-8°06'50
minimum elong	11097 Dec 16 17:13	2°♌52'09	8°05'26
min. Earth dist.	11097 Dec 16 17:17	2°♌52'03	0.29020 AU
morning rise	11097 Dec 20 12:42	0°♌31'16	
	11097 Dec 21 10:00	30°℞♐	
direct	11098 Jan 06 21:15	24°♐46'35	
greatest brilliancy	11098 Jan 17 15:10	26°♐53'16	-4.8m
	11098 Jan 24 07:44	0°♌	
asc. node	11098 Jan 28 09:31	2°♌25'13	
morning max el	11098 Feb 25 08:02	25°♌52'09	46°01'31
	11098 Mar 01 11:26	0°♒	
	11098 Mar 29 06:28	0°♓	
	11098 Apr 24 02:13	0°♈	
	11098 May 19 00:36	0°♉	
desc. node	11098 May 20 05:51	1°♉29'02	
	11098 Jun 12 11:25	0°♊	
	11098 Jul 06 16:05	0°♋	
	11098 Jul 30 18:21	0°♌	
	11098 Aug 23 20:35	0°♍	
morning set	11098 Aug 29 16:28	7°♍14'58	
asc. node	11098 Sep 09 23:08	21°♍16'13	
	11098 Sep 16 23:47	0°♎	
superior conj	11098 Oct 06 23:00	24°♎46'16	0°59'26
minimum elong	11098 Oct 06 13:03	24°♎15'27	0°59'18
max. Earth dist.	11098 Oct 08 23:31	27°♎16'37	1.72731 AU
	11098 Oct 11 04:15	0°♏	
	11098 Nov 04 10:21	0°♐	
evening rise	11098 Nov 12 20:44	10°♐24'17	
	11098 Nov 28 18:58	0°♑	
	11098 Dec 23 07:04	0°♒	
desc. node	11098 Dec 30 15:54	8°♒58'52	
	11099 Jan 16 23:02	0°♓	
	11099 Feb 10 19:00	0°♈	
	11099 Mar 07 20:19	0°♉	
	11099 Apr 02 08:29	0°♊	
asc. node	11099 Apr 22 14:10	22°♊59'51	
	11099 Apr 28 23:22	0°♋	
evening max el	11099 May 14 08:39	16°♋07'37	46°51'23
	11099 May 29 01:48	0°♌	
greatest brilliancy	11099 Jun 23 13:40	16°♌47'35	-4.9m
retrograde	11099 Jul 03 16:56	18°♌42'54	
evening set	11099 Jul 19 06:44	13°♌57'02	
inferior conj	11099 Jul 24 09:55	10°♌53'28	4°44'14
minimum elong	11099 Jul 24 19:37	10°♌38'37	4°41'00
min. Earth dist.	11099 Jul 24 12:12	10°♌50'00	0.27095 AU
morning rise	11099 Jul 30 08:48	7°♌23'51	
desc. node	11099 Aug 12 14:16	3°♌10'18	
direct	11099 Aug 14 04:15	3°♌07'17	
greatest brilliancy	11099 Aug 24 01:20	4°♌56'29	-4.8m
	11099 Sep 28 05:34	0°♍	
morning max el	11099 Oct 02 19:26	4°♍23'03	46°13'06
	11099 Oct 27 12:01	0°♎	
	11099 Nov 23 06:23	0°♏	
asc. node	11099 Dec 03 12:44	11°♏52'42	
	11099 Dec 18 22:51	0°♐	
	11100 Jan 13 00:20	0°♑	
	11100 Feb 06 16:21	0°♒	
	11100 Mar 03 02:12	0°♓	
desc. node	11100 Mar 25 05:14	27°♓23'52	
	11100 Mar 27 07:30	0°♈	
morning set	11100 Mar 31 03:53	4°♈47'14	
	11100 Apr 20 09:00	0°♉	
max. Earth dist.	11100 May 08 02:02	22°♉10'51	1.71476 AU
superior conj	11100 May 10 08:16	25°♉00'55	-1°24'04
minimum elong	11100 May 10 01:43	24°♉40'21	1°24'29
	11100 May 14 07:37	0°♊	
	11100 Jun 07 04:53	0°♋	
evening rise	11100 Jun 19 15:50	15°♋38'09	
	11100 Jul 01 02:52	0°♌	
asc. node	11100 Jul 15 22:43	18°♌31'56	
	11100 Jul 25 03:32	0°♍	
	11100 Aug 18 08:41	0°♎	
	11100 Sep 11 20:36	0°♏	
	11100 Oct 06 19:27	0°♐	
	11100 Nov 01 12:41	0°♑	
desc. node	11100 Nov 04 18:53	3°♑42'31	
	11100 Nov 28 15:48	0°♒	
evening max el	11100 Dec 17 23:24	19°♒36'00	45°50'48
	11100 Dec 29 08:51	0°♓	
greatest brilliancy	11101 Jan 26 02:13	17°♓55'16	-4.8m
retrograde	11101 Feb 04 19:44	19°♓39'02	
evening set	11101 Feb 19 14:44	15°♓24'37	
inferior conj	11101 Feb 25 21:23	11°♓40'27	0°00'53
minimum elong	11101 Feb 25 21:21	11°♓40'32	0°01'08
transit middle	11101 Feb 25 21:21	11°♓40'32	0°01'08
transit begin	11101 Feb 25 17:18	11°♓46'50	
transit end	11101 Feb 26 01:23	11°♓34'13	
asc. node	11101 Feb 25 19:59	11°♓42'40	
min. Earth dist.	11101 Feb 26 07:21	11°♓24'54	0.27915 AU
morning rise	11101 Mar 04 03:20	7°♓55'49	
direct	11101 Mar 19 00:15	3°♓34'47	
greatest brilliancy	11101 Mar 29 17:30	5°♓42'40	-4.8m
	11101 May 02 03:16	0°♈	
morning max el	11101 May 08 05:14	5°♈57'25	46°45'40
	11101 May 30 19:19	0°♉	
desc. node	11101 Jun 17 18:15	20°♉29'28	
	11101 Jun 25 21:07	0°♊	
	11101 Jul 20 23:13	0°♋	
	11101 Aug 14 15:04	0°♌	
	11101 Sep 08 02:50	0°♍	
	11101 Oct 02 12:54	0°♎	
asc. node	11101 Oct 08 12:36	7°♎21'56	
	11101 Oct 26 21:48	0°♏	
morning set	11101 Nov 09 00:03	16°♏08'34	
	11101 Nov 20 05:41	0°♐	
	11101 Dec 14 13:08	0°♑	
superior conj	11101 Dec 15 16:46	1°♑25'12	1°20'55
minimum elong	11101 Dec 15 22:58	1°♑44'20	1°21'28
max. Earth dist.	11101 Dec 15 22:03	1°♑41'31	1.73210 AU
	11102 Jan 07 20:57	0°♒	