superior conj	2601 Jul 23 17:52	0°♌59'43	0°53'07
minimum elong	2601 Jul 23 09:16	0°♌33'16	0°52'46
	2601 Aug 16 06:48	0°♍	
evening rise	2601 Aug 28 15:04	15°♍14'31	
	2601 Sep 09 13:49	0°♎	
	2601 Oct 03 20:35	0°♏	
desc. node	2601 Oct 19 05:55	18°♏59'34	
	2601 Oct 28 04:09	0°♐	
	2601 Nov 21 13:20	0°♑	
	2601 Dec 16 01:55	0°♒	
	2602 Jan 09 22:54	0°♓	
	2602 Feb 04 16:31	0°♈	
asc. node	2602 Feb 09 09:06	5°♈16'29	
evening max el	2602 Mar 02 14:52	27°♈55'52	46°37'46
	2602 Mar 04 16:42	0°♉	
greatest brilliancy	2602 Apr 11 00:12	28°♉05'54	-4.8m
	2602 Apr 18 04:37	0°♊	
retrograde	2602 Apr 21 18:41	0°♊15'12	
	2602 Apr 25 07:13	30°℞♉	
evening set	2602 May 07 16:31	25°♉17'04	
inferior conj	2602 May 13 01:13	22°♉00'45	4°19'52
minimum elong	2602 May 13 09:39	21°♉47'30	4°17'39
min. Earth dist.	2602 May 13 00:30	22°♉01'53	0.28541 AU
morning rise	2602 May 19 03:10	18°♉20'58	
desc. node	2602 May 31 22:26	13°♉57'13	
direct	2602 Jun 03 08:45	13°♉50'11	
greatest brilliancy	2602 Jun 13 08:32	15°♉39'10	-4.7m
	2602 Jul 06 19:07	0°♊	
morning max el	2602 Jul 22 03:52	13°♊38'18	45°43'10
	2602 Aug 07 11:41	0°♋	
	2602 Sep 03 22:06	0°♌	
asc. node	2602 Sep 22 01:57	20°♌58'07	
	2602 Sep 29 17:40	0°♍	
	2602 Oct 24 15:17	0°♎	
	2602 Nov 17 23:43	0°♏	
	2602 Dec 12 00:55	0°♐	
	2603 Jan 04 22:51	0°♑	
desc. node	2603 Jan 11 15:26	8°♑24'30	
morning set	2603 Jan 19 19:31	18°♑40'35	
	2603 Jan 28 19:45	0°♒	
	2603 Feb 21 17:06	0°♓	
superior conj	2603 Mar 02 07:19	10°♓46'13	-1°24'49
minimum elong	2603 Mar 02 02:52	10°♓32'19	1°24'46
max. Earth dist.	2603 Mar 05 23:04	15°♓21'00	1.71607 AU
	2603 Mar 17 16:17	0°♈	
	2603 Apr 10 18:46	0°♉	
evening rise	2603 Apr 11 08:53	0°♉43'48	
asc. node	2603 May 04 18:44	29°♉38'34	
	2603 May 05 01:42	0°♊	
	2603 May 29 13:51	0°♋	
	2603 Jun 23 08:09	0°♌	
	2603 Jul 18 10:45	0°♍	
	2603 Aug 13 02:23	0°♎	
desc. node	2603 Aug 24 08:08	12°♎50'40	
	2603 Sep 08 17:02	0°♏	
evening max el	2603 Oct 06 16:31	29°♏13'34	46°32'05
	2603 Oct 07 11:36	0°♐	
greatest brilliancy	2603 Nov 15 21:27	28°♐58'17	-4.9m
	2603 Nov 19 12:02	0°♑	
retrograde	2603 Nov 25 12:24	0°♑41'32	
	2603 Dec 01 08:28	30°℞♐	
evening set	2603 Dec 09 19:51	26°♐38'50	
asc. node	2603 Dec 15 11:19	23°♐22'23	
inferior conj	2603 Dec 16 00:44	23°♐01'57	0°08'44
minimum elong	2603 Dec 16 00:24	23°♐02'28	0°08'37
transit middle	2603 Dec 16 00:24	23°♐02'28	0°08'37
transit begin	2603 Dec 15 20:54	23°♐07'47	
transit end	2603 Dec 16 03:54	22°♐57'09	
min. Earth dist.	2603 Dec 16 02:31	22°♐59'15	0.26499 AU
morning rise	2603 Dec 22 04:50	19°♐26'32	
direct	2604 Jan 05 12:22	15°♐22'57	
greatest brilliancy	2604 Jan 15 16:36	17°♐21'23	-4.9m
	2604 Feb 05 01:11	0°♑	
morning max el	2604 Feb 25 00:19	18°♑24'02	46°52'22
	2604 Mar 07 04:33	0°♒	
	2604 Apr 03 04:35	0°♓	
desc. node	2604 Apr 05 00:58	2°♓07'09	
	2604 Apr 28 23:31	0°♈	
	2604 May 24 06:19	0°♉	
	2604 Jun 18 06:51	0°♊	
	2604 Jul 13 02:37	0°♋	
asc. node	2604 Jul 27 04:18	17°♋07'07	
	2604 Aug 06 17:19	0°♌	
morning set	2604 Aug 23 23:33	21°♌12'12	
	2604 Aug 31 02:42	0°♍	
	2604 Sep 24 07:34	0°♎	
max. Earth dist.	2604 Sep 26 07:59	2°♎30'29	1.72417 AU
superior conj	2604 Sep 29 16:25	6°♎40'40	1°22'29
minimum elong	2604 Sep 29 20:58	6°♎54'50	1°22'25
	2604 Oct 18 09:29	0°♏	
evening rise	2604 Nov 07 01:16	24°♏32'52	
	2604 Nov 11 09:58	0°♐	
desc. node	2604 Nov 15 17:51	5°♐24'38	
	2604 Dec 05 09:58	0°♑	
	2604 Dec 29 10:22	0°♒	
	2605 Jan 22 12:57	0°♓	
	2605 Feb 15 21:20	0°♈	
asc. node	2605 Mar 08 20:56	25°♈23'45	
	2605 Mar 12 17:30	0°♉	
	2605 Apr 07 11:51	0°♊	
	2605 May 05 04:43	0°♋	
evening max el	2605 May 12 12:09	7°♋16'33	45°36'58
	2605 Jun 09 00:27	0°♌	
greatest brilliancy	2605 Jun 19 09:48	5°♌17'07	-4.7m
desc. node	2605 Jun 28 10:29	7°♌20'51	
retrograde	2605 Jun 30 06:49	7°♌24'46	
evening set	2605 Jul 15 21:25	2°♌45'45	
	2605 Jul 20 12:30	30°℞♋	
inferior conj	2605 Jul 21 19:29	29°♋11'29	-5°08'44
minimum elong	2605 Jul 21 10:08	29°♋26'10	5°06'31
min. Earth dist.	2605 Jul 21 16:07	29°♋16'47	0.29027 AU
morning rise	2605 Jul 26 22:47	26°♋03'23	
direct	2605 Aug 12 11:02	20°♋54'14	
greatest brilliancy	2605 Aug 22 20:42	22°♋50'38	-4.7m
	2605 Sep 05 09:16	0°♌	
morning max el	2605 Sep 30 14:55	21°♌19'30	46°03'23
	2605 Oct 09 06:15	0°♍	
asc. node	2605 Oct 19 13:42	10°♍55'06	
	2605 Nov 05 15:18	0°♎	
	2605 Dec 01 02:51	0°♏	
	2605 Dec 25 18:15	0°♐	
	2606 Jan 19 00:27	0°♑	
desc. node	2606 Feb 08 03:22	25°♑02'27	
	2606 Feb 12 02:53	0°♒	
	2606 Mar 08 04:28	0°♓	
	2606 Apr 01 06:54	0°♈	
morning set	2606 Apr 05 22:02	5°♈45'17	
	2606 Apr 25 11:20	0°♉	

superior conj	2606 May 14 06:01	23°♉12'29	-0°41'18
minimum elong	2606 May 14 14:11	23°♉37'40	0°40'56
max. Earth dist.	2606 May 16 17:38	26°♉16'19	1.73101 AU
	2606 May 19 18:12	0°♊	
asc. node	2606 Jun 01 06:39	15°♊25'07	
	2606 Jun 13 03:17	0°♋	
evening rise	2606 Jun 20 11:18	9°♋00'23	
	2606 Jul 07 14:06	0°♌	
	2606 Aug 01 02:47	0°♍	
	2606 Aug 25 18:21	0°♎	
	2606 Sep 19 14:34	0°♏	
desc. node	2606 Sep 20 20:02	1°♏28'32	
	2606 Oct 14 17:45	0°♐	
	2606 Nov 09 08:43	0°♑	
	2606 Dec 06 01:59	0°♒	
evening max el	2606 Dec 18 09:51	12°♒57'37	47°16'41
	2607 Jan 05 11:15	0°♓	
asc. node	2607 Jan 11 23:19	5°♓13'31	
greatest brilliancy	2607 Jan 28 03:26	14°♓40'58	-4.9m
retrograde	2607 Feb 07 08:33	16°♓41'09	
evening set	2607 Feb 24 21:33	10°♓42'53	
min. Earth dist.	2607 Feb 27 11:29	9°♓07'36	0.27368 AU
inferior conj	2607 Feb 28 04:44	8°♓40'41	8°42'46
minimum elong	2607 Feb 28 00:17	8°♓47'37	8°42'28
morning rise	2607 Mar 03 03:13	6°♓51'54	
direct	2607 Mar 20 19:25	0°♓50'50	
greatest brilliancy	2607 Mar 29 21:44	2°♓23'39	-4.8m
desc. node	2607 May 03 12:45	26°♓29'11	
	2607 May 07 05:59	0°♈	
morning max el	2607 May 09 06:40	1°♈57'35	46°11'01
	2607 Jun 05 05:26	0°♉	
	2607 Jul 01 23:37	0°♊	
	2607 Jul 27 18:54	0°♋	
	2607 Aug 21 23:29	0°♌	
asc. node	2607 Aug 24 16:05	3°♌14'32	
	2607 Sep 15 16:27	0°♍	
	2607 Oct 10 00:21	0°♎	
morning set	2607 Nov 02 23:31	29°♎51'54	
	2607 Nov 03 02:07	0°♏	
	2607 Nov 27 00:26	0°♐	
max. Earth dist.	2607 Dec 11 14:34	18°♐19'58	1.71198 AU
superior conj	2607 Dec 12 15:20	19°♐37'49	0°03'52
minimum elong	2607 Dec 12 16:19	19°♐40'57	0°03'49
behind sun begin	2607 Dec 11 14:54	18°♐21'01	
behind sun end	2607 Dec 13 17:44	21°♐00'52	
desc. node	2607 Dec 14 05:44	21°♐38'35	
	2607 Dec 20 21:14	0°♑	
	2608 Jan 13 17:46	0°♒	
evening rise	2608 Jan 22 21:56	11°♒31'41	
	2608 Feb 06 15:15	0°♓	
	2608 Mar 01 15:33	0°♈	
	2608 Mar 25 21:11	0°♉	
asc. node	2608 Apr 05 08:52	12°♉51'27	
	2608 Apr 19 11:13	0°♊	
	2608 May 14 13:32	0°♋	
	2608 Jun 09 11:07	0°♌	
	2608 Jul 06 21:30	0°♍	
evening max el	2608 Jul 22 08:00	15°♍29'01	45°32'14
desc. node	2608 Jul 25 22:24	18°♍52'11	
	2608 Aug 07 18:49	0°♎	
greatest brilliancy	2608 Aug 30 14:58	13°♎34'03	-4.7m
retrograde	2608 Sep 09 01:50	15°♎11'02	
evening set	2608 Sep 26 23:24	9°♎12'29	
inferior conj	2608 Sep 30 05:17	7°♎14'02	-8°28'58
minimum elong	2608 Sep 30 10:11	7°♎06'29	8°28'37
min. Earth dist.	2608 Oct 01 00:52	6°♎43'51	0.28205 AU
morning rise	2608 Oct 03 20:43	5°♎00'53	
	2608 Oct 14 20:46	30°℞♍	
direct	2608 Oct 21 11:44	29°♍06'17	
	2608 Oct 28 07:30	0°♎	
greatest brilliancy	2608 Nov 01 16:05	1°♎25'28	-4.8m
asc. node	2608 Nov 16 01:31	9°♎43'09	
	2608 Dec 09 00:18	0°♏	
morning max el	2608 Dec 11 01:24	2°♏03'39	46°46'52
	2609 Jan 05 19:32	0°♐	
	2609 Jan 31 12:15	0°♑	
	2609 Feb 25 10:31	0°♒	
desc. node	2609 Mar 07 15:07	12°♒23'42	
	2609 Mar 22 01:11	0°♓	
	2609 Apr 15 13:00	0°♈	
	2609 May 10 00:15	0°♉	
	2609 Jun 03 11:45	0°♊	
morning set	2609 Jun 14 21:16	13°♊57'57	
	2609 Jun 27 23:02	0°♋	
asc. node	2609 Jun 28 18:29	0°♋59'39	
max. Earth dist.	2609 Jul 19 23:20	27°♋02'14	1.73519 AU
superior conj	2609 Jul 21 12:11	28°♋55'33	0°50'36
minimum elong	2609 Jul 21 03:45	28°♋29'37	0°50'17
	2609 Jul 22 09:08	0°♌	
	2609 Aug 15 17:31	0°♍	
evening rise	2609 Aug 26 09:09	13°♍08'54	
	2609 Sep 09 00:40	0°♎	
	2609 Oct 03 07:41	0°♏	
desc. node	2609 Oct 18 08:00	18°♏31'05	
	2609 Oct 27 15:37	0°♐	
	2609 Nov 21 01:18	0°♑	
	2609 Dec 15 14:35	0°♒	
	2610 Jan 09 12:44	0°♓	
	2610 Feb 04 08:42	0°♈	
asc. node	2610 Feb 08 11:02	4°♈35'00	
evening max el	2610 Feb 28 07:04	25°♈41'17	46°39'58
	2610 Mar 04 15:45	0°♉	
greatest brilliancy	2610 Apr 08 16:40	25°♉53'04	-4.8m
retrograde	2610 Apr 19 11:09	28°♉01'55	
evening set	2610 May 05 10:54	23°♉00'29	
inferior conj	2610 May 10 16:56	19°♉47'40	4°37'46
minimum elong	2610 May 11 01:46	19°♉33'46	4°35'31
min. Earth dist.	2610 May 10 15:50	19°♉49'22	0.28514 AU
morning rise	2610 May 16 17:05	16°♉10'25	
desc. node	2610 May 31 00:34	11°♉38'57	
direct	2610 Jun 01 00:34	11°♉37'46	
greatest brilliancy	2610 Jun 10 22:26	13°♉25'22	-4.7m
	2610 Jul 07 02:21	0°♊	
morning max el	2610 Jul 19 19:51	11°♊28'18	45°43'15
	2610 Aug 07 05:17	0°♋	
	2610 Sep 03 12:10	0°♌	
asc. node	2610 Sep 21 03:55	20°♌26'01	
	2610 Sep 29 06:13	0°♍	
	2610 Oct 24 03:05	0°♎	
	2610 Nov 17 11:08	0°♏	
	2610 Dec 11 12:09	0°♐	
	2611 Jan 04 09:58	0°♑	
desc. node	2611 Jan 10 17:30	7°♑56'11	
morning set	2611 Jan 17 05:37	16°♑06'45	
	2611 Jan 28 06:48	0°♒	
	2611 Feb 21 04:06	0°♓	
superior conj	2611 Feb 27 18:30	8°♓16'27	-1°24'00
minimum elong	2611 Feb 27 13:05	7°♓59'29	1°23'57
max. Earth dist.	2611 Mar 03 10:44	12°♓52'49	1.71564 AU
	2611 Mar 17 03:16	0°♈	
evening rise	2611 Apr 08 21:59	28°♈21'25	

	2611 Apr 10 05:46	0°♉	
asc. node	2611 May 03 20:50	29°♉10'57	
	2611 May 04 12:48	0°♊	
	2611 May 29 01:09	0°♋	
	2611 Jun 22 19:50	0°♌	
	2611 Jul 17 23:13	0°♍	
	2611 Aug 12 16:16	0°♎	
desc. node	2611 Aug 23 10:05	12°♎14'17	
	2611 Sep 08 09:47	0°♏	
evening max el	2611 Oct 04 06:01	26°♏51'36	46°29'40
	2611 Oct 07 12:15	0°♐	
greatest brilliancy	2611 Nov 13 11:17	26°♐32'22	-4.9m
retrograde	2611 Nov 23 00:03	28°♐13'38	
evening set	2611 Dec 07 09:08	24°♐10'14	
inferior conj	2611 Dec 13 13:09	20°♐34'36	-0°15'47
minimum elong	2611 Dec 13 13:45	20°♐33'40	0°15'35
transit middle	2611 Dec 13 13:45	20°♐33'40	0°15'35
transit begin	2611 Dec 13 12:15	20°♐35'57	
transit end	2611 Dec 13 15:15	20°♐31'24	
min. Earth dist.	2611 Dec 13 16:46	20°♐29'04	0.26514 AU
asc. node	2611 Dec 14 13:25	19°♐57'38	
morning rise	2611 Dec 19 18:07	16°♐57'33	
direct	2612 Jan 03 00:44	12°♐55'11	
greatest brilliancy	2612 Jan 13 07:11	14°♐55'08	-4.9m
	2612 Feb 05 12:45	0°♑	
morning max el	2612 Feb 22 12:31	15°♑56'00	46°53'11
	2612 Mar 06 23:47	0°♒	
	2612 Apr 02 19:43	0°♓	
desc. node	2612 Apr 04 03:05	1°♓30'11	
	2612 Apr 28 12:50	0°♈	
	2612 May 23 18:38	0°♉	
	2612 Jun 17 18:32	0°♊	
	2612 Jul 12 13:52	0°♋	
asc. node	2612 Jul 26 06:15	16°♋39'16	
	2612 Aug 06 04:19	0°♌	
morning set	2612 Aug 21 16:48	19°♌03'50	
	2612 Aug 30 13:36	0°♍	
	2612 Sep 23 18:29	0°♎	
max. Earth dist.	2612 Sep 23 23:14	0°♎14'47	1.72470 AU
superior conj	2612 Sep 27 08:44	4°♎28'08	1°23'13
minimum elong	2612 Sep 27 12:34	4°♎40'05	1°23'11
	2612 Oct 17 20:31	0°♏	
evening rise	2612 Nov 04 14:28	22°♏09'24	
	2612 Nov 10 21:09	0°♐	
desc. node	2612 Nov 14 19:58	4°♐56'13	
	2612 Dec 04 21:19	0°♑	
	2612 Dec 28 21:55	0°♒	
	2613 Jan 22 00:47	0°♓	
	2613 Feb 15 09:38	0°♈	
asc. node	2613 Mar 07 22:58	24°♈51'03	
	2613 Mar 12 06:41	0°♉	
	2613 Apr 07 02:52	0°♊	
	2613 May 05 00:42	0°♋	
evening max el	2613 May 10 02:54	5°♋02'06	45°38'15
	2613 Jun 10 08:55	0°♌	
greatest brilliancy	2613 Jun 17 01:40	3°♌07'13	-4.7m
retrograde	2613 Jun 27 22:51	5°♌15'38	
desc. node	2613 Jun 27 12:33	5°♌15'26	
evening set	2613 Jul 13 11:43	0°♌38'55	
	2613 Jul 14 15:12	30°℞♋	
inferior conj	2613 Jul 19 11:50	27°♋02'06	-4°52'33
minimum elong	2613 Jul 19 02:44	27°♋16'22	4°50'21
min. Earth dist.	2613 Jul 19 08:34	27°♋07'14	0.29025 AU
morning rise	2613 Jul 24 17:38	23°♋50'24	
direct	2613 Aug 10 02:43	18°♋44'41	
greatest brilliancy	2613 Aug 20 13:20	20°♋41'33	-4.7m
	2613 Sep 06 03:48	0°♌	
morning max el	2613 Sep 28 05:50	19°♌04'49	46°02'07
	2613 Oct 09 01:26	0°♍	
asc. node	2613 Oct 18 15:54	10°♍14'37	
	2613 Nov 05 06:13	0°♎	
	2613 Nov 30 16:07	0°♏	
	2613 Dec 25 06:41	0°♐	
	2614 Jan 18 12:23	0°♑	
desc. node	2614 Feb 07 05:17	24°♑32'06	
	2614 Feb 11 14:29	0°♒	
	2614 Mar 07 15:48	0°♓	
	2614 Mar 31 18:02	0°♈	
morning set	2614 Apr 03 11:48	3°♈24'25	
	2614 Apr 24 22:19	0°♉	
superior conj	2614 May 11 22:12	21°♉00'42	-0°44'13
minimum elong	2614 May 12 06:49	21°♉27'16	0°43'52
max. Earth dist.	2614 May 14 10:43	24°♉07'22	1.73062 AU
	2614 May 19 05:07	0°♊	
asc. node	2614 May 31 08:43	14°♊57'53	
	2614 Jun 12 14:12	0°♋	
evening rise	2614 Jun 18 05:32	6°♋55'24	
	2614 Jul 07 01:10	0°♌	
	2614 Jul 31 14:07	0°♍	
	2614 Aug 25 06:09	0°♎	
	2614 Sep 19 03:03	0°♏	
desc. node	2614 Sep 19 22:07	0°♏57'12	
	2614 Oct 14 07:19	0°♐	
	2614 Nov 09 00:11	0°♑	
	2614 Dec 05 21:33	0°♒	
evening max el	2614 Dec 15 23:43	10°♒32'38	47°16'33
	2615 Jan 05 23:12	0°♓	
asc. node	2615 Jan 11 01:18	3°♓55'02	
greatest brilliancy	2615 Jan 25 17:27	12°♓15'32	-4.9m
retrograde	2615 Feb 04 22:49	14°♓16'13	
evening set	2615 Feb 22 08:07	8°♓22'48	
min. Earth dist.	2615 Feb 25 00:31	6°♓44'07	0.27315 AU
inferior conj	2615 Feb 25 18:20	6°♓16'23	8°37'46
minimum elong	2615 Feb 25 13:04	6°♓24'35	8°37'22
morning rise	2615 Feb 28 18:13	4°♓25'49	
	2615 Mar 09 16:03	30°℞♒	
direct	2615 Mar 18 08:17	28°♒27'11	
	2615 Mar 27 10:11	0°♓	
greatest brilliancy	2615 Mar 27 10:39	0°♓00'23	-4.8m
desc. node	2615 May 02 14:50	25°♓34'14	
morning max el	2615 May 06 21:22	29°♓40'01	46°12'41
	2615 May 07 05:34	0°♈	
	2615 Jun 04 21:45	0°♉	
	2615 Jul 01 13:19	0°♊	
	2615 Jul 27 07:20	0°♋	
	2615 Aug 21 11:14	0°♌	
asc. node	2615 Aug 23 18:05	2°♌45'15	
	2615 Sep 15 03:51	0°♍	
	2615 Oct 09 11:35	0°♎	
morning set	2615 Oct 31 13:48	27°♎31'38	
	2615 Nov 02 13:15	0°♏	
	2615 Nov 26 11:34	0°♐	
max. Earth dist.	2615 Dec 09 01:28	15°♐48'11	1.71221 AU
superior conj	2615 Dec 10 02:07	17°♐05'43	0°07'47
minimum elong	2615 Dec 10 04:08	17°♐12'02	0°07'40
behind sun begin	2615 Dec 09 05:01	15°♐59'21	
behind sun end	2615 Dec 11 03:15	18°♐24'42	
desc. node	2615 Dec 13 07:44	21°♐09'40	
	2615 Dec 20 08:25	0°♑	
	2616 Jan 13 05:02	0°♒	
evening rise	2616 Jan 20 08:05	8°♒57'23	

	2616 Feb 06 02:36	0°♓	
	2616 Mar 01 02:59	0°♈	
	2616 Mar 25 08:49	0°♉	
asc. node	2616 Apr 04 11:01	12°♉22'05	
	2616 Apr 18 23:14	0°♊	
	2616 May 14 02:20	0°♋	
	2616 Jun 09 01:34	0°♌	
	2616 Jul 06 15:59	0°♍	
evening max el	2616 Jul 19 23:43	13°♍17'09	45°31'04
desc. node	2616 Jul 25 00:19	17°♍58'59	
	2616 Aug 08 06:58	0°♎	
greatest brilliancy	2616 Aug 28 03:25	11°♎16'49	-4.7m
retrograde	2616 Sep 06 16:12	12°♎54'57	
evening set	2616 Sep 24 15:01	6°♎54'19	
inferior conj	2616 Sep 27 19:55	4°♎57'05	-8°33'07
minimum elong	2616 Sep 28 00:02	4°♎50'42	8°32'53
min. Earth dist.	2616 Sep 28 14:25	4°♎28'31	0.28267 AU
morning rise	2616 Oct 01 08:52	2°♎47'28	
	2616 Oct 06 11:41	30°℞♍	
direct	2616 Oct 19 03:40	26°♍48'42	
greatest brilliancy	2616 Oct 30 06:19	29°♍06'23	-4.8m
	2616 Nov 01 08:53	0°♎	
asc. node	2616 Nov 15 03:33	8°♎29'04	
morning max el	2616 Dec 08 16:36	29°♎43'52	46°45'37
	2616 Dec 08 22:58	0°♏	
	2617 Jan 05 11:56	0°♐	
	2617 Jan 31 02:21	0°♑	
	2617 Feb 24 23:27	0°♒	
desc. node	2617 Mar 06 17:14	11°♒51'48	
	2617 Mar 21 13:23	0°♓	
	2617 Apr 15 00:41	0°♈	
	2617 May 09 11:34	0°♉	
	2617 Jun 02 22:47	0°♊	
morning set	2617 Jun 12 15:07	11°♊52'00	
	2617 Jun 27 09:54	0°♋	
asc. node	2617 Jun 27 20:28	0°♋32'25	
max. Earth dist.	2617 Jul 17 21:51	25°♋10'37	1.73530 AU
superior conj	2617 Jul 19 06:41	26°♋51'34	0°48'03
minimum elong	2617 Jul 18 22:29	26°♋26'21	0°47'44
	2617 Jul 21 19:57	0°♌	
	2617 Aug 15 04:24	0°♍	
evening rise	2617 Aug 24 03:23	11°♍03'13	
	2617 Sep 08 11:43	0°♎	
	2617 Oct 02 19:03	0°♏	
desc. node	2617 Oct 17 10:07	18°♏01'53	
	2617 Oct 27 03:22	0°♐	
	2617 Nov 20 13:34	0°♑	
	2617 Dec 15 03:34	0°♒	
	2618 Jan 09 02:53	0°♓	
	2618 Feb 04 01:20	0°♈	
asc. node	2618 Feb 07 13:05	3°♈52'59	
evening max el	2618 Feb 25 22:41	23°♈24'40	46°42'12
	2618 Mar 04 16:00	0°♉	
greatest brilliancy	2618 Apr 06 09:44	23°♉40'36	-4.8m
retrograde	2618 Apr 17 03:09	25°♉48'16	
evening set	2618 May 03 05:26	20°♉43'35	
inferior conj	2618 May 08 08:43	17°♉34'24	4°55'15
minimum elong	2618 May 08 17:53	17°♉19'58	4°52'59
min. Earth dist.	2618 May 08 07:30	17°♉36'18	0.28484 AU
morning rise	2618 May 14 06:48	13°♉59'46	
direct	2618 May 29 16:12	9°♉25'12	
desc. node	2618 May 30 02:35	9°♉25'25	
greatest brilliancy	2618 Jun 08 12:42	11°♉11'36	-4.7m
	2618 Jul 07 07:29	0°♊	
morning max el	2618 Jul 17 11:03	9°♊16'16	45°43'27
	2618 Aug 06 22:32	0°♋	

	2618 Sep 03 02:06	0°♌	
asc. node	2618 Sep 20 06:07	19°♌54'43	
	2618 Sep 28 18:45	0°♍	
	2618 Oct 23 14:56	0°♎	
	2618 Nov 16 22:39	0°♏	
	2618 Dec 10 23:31	0°♐	
	2619 Jan 03 21:14	0°♑	
desc. node	2619 Jan 09 19:30	7°♑27'09	
morning set	2619 Jan 14 15:16	13°♑30'59	
	2619 Jan 27 17:58	0°♒	
	2619 Feb 20 15:10	0°♓	
superior conj	2619 Feb 25 05:19	5°♓45'15	-1°23'01
minimum elong	2619 Feb 24 22:57	5°♓25'20	1°22'55
max. Earth dist.	2619 Feb 28 20:42	10°♓19'04	1.71515 AU
	2619 Mar 16 14:17	0°♈	
evening rise	2619 Apr 06 10:49	25°♈58'06	
	2619 Apr 09 16:47	0°♉	
asc. node	2619 May 02 22:55	28°♉43'12	
	2619 May 03 23:54	0°♊	
	2619 May 28 12:26	0°♋	
	2619 Jun 22 07:32	0°♌	
	2619 Jul 17 11:41	0°♍	
	2619 Aug 12 06:11	0°♎	
desc. node	2619 Aug 22 12:14	11°♎38'33	
	2619 Sep 08 02:45	0°♏	
evening max el	2619 Oct 01 18:25	24°♏27'26	46°27'06
	2619 Oct 07 14:04	0°♐	
greatest brilliancy	2619 Nov 11 00:59	24°♐06'19	-4.9m
retrograde	2619 Nov 20 11:24	25°♐45'50	
evening set	2619 Dec 04 22:28	21°♐40'56	
inferior conj	2619 Dec 11 01:27	18°♐07'01	-0°40'14
minimum elong	2619 Dec 11 03:00	18°♐04'39	0°39'43
min. Earth dist.	2619 Dec 11 07:07	17°♐58'24	0.26541 AU
asc. node	2619 Dec 13 15:24	16°♐33'16	
morning rise	2619 Dec 17 07:07	14°♐28'42	
direct	2619 Dec 31 12:51	10°♐26'45	
greatest brilliancy	2620 Jan 10 22:20	12°♐29'08	-4.9m
	2620 Feb 05 21:31	0°♑	
morning max el	2620 Feb 20 00:57	13°♑27'56	46°54'03
	2620 Mar 06 18:36	0°♒	
	2620 Apr 02 10:41	0°♓	
desc. node	2620 Apr 03 05:13	0°♓53'28	
	2620 Apr 28 02:01	0°♈	
	2620 May 23 06:47	0°♉	
	2620 Jun 17 06:02	0°♊	
	2620 Jul 12 00:57	0°♋	
asc. node	2620 Jul 25 08:20	16°♋12'15	
	2620 Aug 05 15:08	0°♌	
morning set	2620 Aug 19 10:25	16°♌57'10	
	2620 Aug 30 00:19	0°♍	
max. Earth dist.	2620 Sep 21 17:07	28°♍07'52	1.72520 AU
	2620 Sep 23 05:12	0°♎	
superior conj	2620 Sep 25 01:32	2°♎17'49	1°23'49
minimum elong	2620 Sep 25 04:41	2°♎27'34	1°23'48
	2620 Oct 17 07:20	0°♏	
evening rise	2620 Nov 02 04:13	19°♏48'27	
	2620 Nov 10 08:07	0°♐	
desc. node	2620 Nov 13 21:59	4°♐28'06	
	2620 Dec 04 08:30	0°♑	
	2620 Dec 28 09:21	0°♒	
	2621 Jan 21 12:34	0°♓	
	2621 Feb 14 21:55	0°♈	
asc. node	2621 Mar 07 01:06	24°♈18'45	
	2621 Mar 11 19:52	0°♉	
	2621 Apr 06 17:57	0°♊	

	2621 May 04 21:08	0°♋	
evening max el	2621 May 07 17:54	2°♋48'51	45°39'53
	2621 Jun 12 08:51	0°♌	
greatest brilliancy	2621 Jun 14 17:07	0°♌57'44	-4.7m
retrograde	2621 Jun 25 15:30	3°♌07'38	
desc. node	2621 Jun 26 14:31	3°♌06'33	
	2621 Jul 08 06:48	30°℞♋	
evening set	2621 Jul 11 02:18	28°♋32'48	
inferior conj	2621 Jul 17 04:17	24°♋53'42	-4°36'07
minimum elong	2621 Jul 16 19:28	25°♋07'28	4°33'55
min. Earth dist.	2621 Jul 17 00:50	24°♋59'05	0.29020 AU
morning rise	2621 Jul 22 12:32	21°♋38'41	
direct	2621 Aug 07 18:44	16°♋36'08	
greatest brilliancy	2621 Aug 18 05:50	18°♋33'29	-4.7m
	2621 Sep 06 17:08	0°♌	
morning max el	2621 Sep 25 21:50	16°♌53'58	46°00'57
	2621 Oct 08 19:43	0°♍	
asc. node	2621 Oct 17 17:51	9°♍35'00	
	2621 Nov 04 20:35	0°♎	
	2621 Nov 30 04:55	0°♏	
	2621 Dec 24 18:43	0°♐	
	2622 Jan 17 23:58	0°♑	
desc. node	2622 Feb 06 07:26	24°♑03'22	
	2622 Feb 11 01:48	0°♒	
	2622 Mar 07 02:54	0°♓	
	2622 Mar 31 04:58	0°♈	
morning set	2622 Apr 01 00:58	1°♈02'12	
	2622 Apr 24 09:05	0°♉	
superior conj	2622 May 09 13:51	18°♉47'49	-0°47'08
minimum elong	2622 May 09 22:52	19°♉15'40	0°46'46
max. Earth dist.	2622 May 12 03:42	21°♉58'42	1.73018 AU
	2622 May 18 15:47	0°♊	
asc. node	2622 May 30 10:40	14°♊31'05	
	2622 Jun 12 00:52	0°♋	
evening rise	2622 Jun 15 23:27	4°♋50'21	
	2622 Jul 06 11:57	0°♌	
	2622 Jul 31 01:10	0°♍	
	2622 Aug 24 17:39	0°♎	
	2622 Sep 18 15:14	0°♏	
desc. node	2622 Sep 19 00:13	0°♏26'55	
	2622 Oct 13 20:37	0°♐	
	2622 Nov 08 15:25	0°♑	
	2622 Dec 05 17:10	0°♒	
evening max el	2622 Dec 13 14:29	8°♒11'28	47°16'15
	2623 Jan 06 14:21	0°♓	
asc. node	2623 Jan 10 03:19	2°♓35'28	
greatest brilliancy	2623 Jan 23 06:43	9°♓50'29	-4.9m
retrograde	2623 Feb 02 13:16	11°♓52'08	
evening set	2623 Feb 19 18:20	6°♓03'57	
min. Earth dist.	2623 Feb 22 13:11	4°♓21'47	0.27267 AU
inferior conj	2623 Feb 23 07:50	3°♓52'50	8°31'49
minimum elong	2623 Feb 23 01:47	4°♓02'13	8°31'15
morning rise	2623 Feb 26 09:29	1°♓59'54	
	2623 Mar 01 21:56	30°℞♒	
direct	2623 Mar 15 21:43	26°♒04'22	
greatest brilliancy	2623 Mar 24 23:10	27°♒37'20	-4.8m
	2623 Mar 30 17:22	0°♓	
desc. node	2623 May 01 16:50	24°♓40'50	
morning max el	2623 May 04 12:29	27°♓24'07	46°14'11
	2623 May 07 03:52	0°♈	
	2623 Jun 04 13:32	0°♉	
	2623 Jul 01 02:37	0°♊	
	2623 Jul 26 19:23	0°♋	
	2623 Aug 20 22:35	0°♌	
asc. node	2623 Aug 22 20:14	2°♌17'39	
	2623 Sep 14 14:50	0°♍	
	2623 Oct 08 22:23	0°♎	
morning set	2623 Oct 29 04:19	25°♎13'27	
	2623 Nov 02 00:01	0°♏	
	2623 Nov 25 22:20	0°♐	
max. Earth dist.	2623 Dec 06 10:17	13°♐11'12	1.71241 AU
superior conj	2623 Dec 07 13:25	14°♐36'26	0°11'37
minimum elong	2623 Dec 07 16:24	14°♐45'48	0°11'29
behind sun begin	2623 Dec 06 21:50	13°♐47'28	
behind sun end	2623 Dec 08 10:57	15°♐44'08	
desc. node	2623 Dec 12 09:45	20°♐42'04	
	2623 Dec 19 19:13	0°♑	
	2624 Jan 12 15:53	0°♒	
evening rise	2624 Jan 17 18:35	6°♒25'32	
	2624 Feb 05 13:31	0°♓	
	2624 Feb 29 14:00	0°♈	
	2624 Mar 24 20:04	0°♉	
asc. node	2624 Apr 03 13:01	11°♉53'18	
	2624 Apr 18 10:56	0°♊	
	2624 May 13 14:54	0°♋	
	2624 Jun 08 15:52	0°♌	
	2624 Jul 06 10:34	0°♍	
evening max el	2624 Jul 17 15:12	11°♍05'48	45°30'07
desc. node	2624 Jul 24 02:28	17°♍06'23	
	2624 Aug 08 22:30	0°♎	
greatest brilliancy	2624 Aug 25 16:37	9°♎02'01	-4.7m
retrograde	2624 Sep 04 06:22	10°♎40'41	
evening set	2624 Sep 22 06:33	4°♎38'40	
inferior conj	2624 Sep 25 10:46	2°♎42'08	-8°36'31
minimum elong	2624 Sep 25 14:05	2°♎36'59	8°36'22
min. Earth dist.	2624 Sep 26 04:18	2°♎14'58	0.28324 AU
morning rise	2624 Sep 28 21:27	0°♎35'36	
	2624 Sep 29 21:35	30°℞♍	
direct	2624 Oct 16 19:29	24°♍33'12	
greatest brilliancy	2624 Oct 27 20:49	26°♍49'18	-4.8m
	2624 Nov 03 10:47	0°♎	
asc. node	2624 Nov 14 05:34	7°♎18'31	
morning max el	2624 Dec 06 07:01	27°♎23'29	46°44'19
	2624 Dec 08 20:16	0°♏	
	2625 Jan 05 03:38	0°♐	
	2625 Jan 30 15:55	0°♑	
	2625 Feb 24 11:53	0°♒	
desc. node	2625 Mar 05 19:20	11°♒21'15	
	2625 Mar 21 01:06	0°♓	
	2625 Apr 14 11:55	0°♈	
	2625 May 08 22:28	0°♉	
	2625 Jun 02 09:29	0°♊	
morning set	2625 Jun 10 08:47	9°♊46'26	
asc. node	2625 Jun 26 22:34	0°♋06'23	
	2625 Jun 26 20:29	0°♋	
max. Earth dist.	2625 Jul 15 18:05	23°♋12'55	1.73539 AU
superior conj	2625 Jul 17 00:58	24°♋47'52	0°45'26
minimum elong	2625 Jul 16 17:02	24°♋23'28	0°45'05
	2625 Jul 21 06:28	0°♌	
	2625 Aug 14 14:58	0°♍	
evening rise	2625 Aug 21 21:25	8°♍57'57	
	2625 Sep 07 22:28	0°♎	
	2625 Oct 02 06:05	0°♏	
desc. node	2625 Oct 16 12:04	17°♏33'10	
	2625 Oct 26 14:50	0°♐	
	2625 Nov 20 01:34	0°♑	
	2625 Dec 14 16:19	0°♒	
	2626 Jan 08 16:51	0°♓	
	2626 Feb 03 17:55	0°♈	
asc. node	2626 Feb 06 15:16	3°♈11'52	
evening max el	2626 Feb 23 13:27	21°♈06'47	46°44'23

	2626 Mar 04 17:00	0°♉	
greatest brilliancy	2626 Apr 04 03:04	21°♉29'25	-4.8m
retrograde	2626 Apr 14 18:43	23°♉35'45	
evening set	2626 May 01 00:01	18°♉27'38	
inferior conj	2626 May 06 00:33	15°♉22'18	5°12'18
minimum elong	2626 May 06 09:59	15°♉07'25	5°10'01
min. Earth dist.	2626 May 05 23:26	15°♉24'04	0.28456 AU
morning rise	2626 May 11 20:23	11°♉50'28	
direct	2626 May 27 07:27	7°♉13'40	
desc. node	2626 May 29 04:36	7°♉17'46	
greatest brilliancy	2626 Jun 06 03:34	8°♉59'25	-4.7m
	2626 Jul 07 10:26	0°♊	
morning max el	2626 Jul 15 01:41	7°♊03'28	45°43'38
	2626 Aug 06 15:10	0°♋	
	2626 Sep 02 15:42	0°♌	
asc. node	2626 Sep 19 08:05	19°♌23'24	
	2626 Sep 28 06:59	0°♍	
	2626 Oct 23 02:30	0°♎	
	2626 Nov 16 09:53	0°♏	
	2626 Dec 10 10:36	0°♐	
	2627 Jan 03 08:13	0°♑	
desc. node	2627 Jan 08 21:35	6°♑59'10	
morning set	2627 Jan 12 00:59	10°♑56'11	
	2627 Jan 27 04:53	0°♒	
	2627 Feb 20 02:02	0°♓	
superior conj	2627 Feb 22 16:12	3°♓14'56	-1°21'51
minimum elong	2627 Feb 22 08:56	2°♓52'08	1°21'44
max. Earth dist.	2627 Feb 26 03:18	7°♓35'21	1.71468 AU
	2627 Mar 16 01:06	0°♈	
evening rise	2627 Apr 03 23:39	23°♈35'22	
	2627 Apr 09 03:36	0°♉	
asc. node	2627 May 02 00:53	28°♉15'50	
	2627 May 03 10:46	0°♊	
	2627 May 27 23:32	0°♋	
	2627 Jun 21 19:05	0°♌	
	2627 Jul 17 00:04	0°♍	
	2627 Aug 11 20:09	0°♎	
desc. node	2627 Aug 21 14:17	11°♎02'32	
	2627 Sep 07 19:59	0°♏	
evening max el	2627 Sep 29 06:36	22°♏03'10	46°24'44
	2627 Oct 07 17:15	0°♐	
greatest brilliancy	2627 Nov 08 14:19	21°♐40'26	-4.9m
retrograde	2627 Nov 17 23:09	23°♐18'59	
evening set	2627 Dec 02 12:03	19°♐11'53	
inferior conj	2627 Dec 08 13:49	15°♐40'02	-1°04'30
minimum elong	2627 Dec 08 16:17	15°♐36'17	1°03'42
min. Earth dist.	2627 Dec 08 21:15	15°♐28'44	0.26572 AU
asc. node	2627 Dec 12 17:28	13°♐11'07	
morning rise	2627 Dec 14 20:00	12°♐01'02	
direct	2627 Dec 29 01:12	7°♐58'47	
greatest brilliancy	2628 Jan 08 13:21	10°♐03'43	-4.9m
	2628 Feb 06 03:40	0°♑	
morning max el	2628 Feb 17 14:12	11°♑02'18	46°54'48
	2628 Mar 06 12:50	0°♒	
desc. node	2628 Apr 02 07:06	0°♓16'33	
	2628 Apr 02 01:23	0°♓	
	2628 Apr 27 15:02	0°♈	
	2628 May 22 18:49	0°♉	
	2628 Jun 16 17:26	0°♊	
	2628 Jul 11 11:57	0°♋	
asc. node	2628 Jul 24 10:26	15°♋45'30	
	2628 Aug 05 01:55	0°♌	
morning set	2628 Aug 17 03:58	14°♌50'21	
	2628 Aug 29 11:02	0°♍	
max. Earth dist.	2628 Sep 19 11:53	26°♍03'35	1.72572 AU
superior conj	2628 Sep 22 18:09	0°♎06'47	1°24'18
minimum elong	2628 Sep 22 20:34	0°♎14'18	1°24'17
	2628 Sep 22 15:58	0°♎	
	2628 Oct 16 18:13	0°♏	
evening rise	2628 Oct 30 17:46	17°♏26'44	
	2628 Nov 09 19:10	0°♐	
desc. node	2628 Nov 12 23:59	3°♐59'50	
	2628 Dec 03 19:44	0°♑	
	2628 Dec 27 20:50	0°♒	
	2629 Jan 21 00:24	0°♓	
	2629 Feb 14 10:17	0°♈	
asc. node	2629 Mar 06 03:03	23°♈45'33	
	2629 Mar 11 09:12	0°♉	
	2629 Apr 06 09:20	0°♊	
	2629 May 04 18:23	0°♋	
evening max el	2629 May 05 09:42	0°♋37'21	45°41'36
greatest brilliancy	2629 Jun 12 08:18	28°♋47'45	-4.7m
	2629 Jun 16 01:54	0°♌	
retrograde	2629 Jun 23 08:26	0°♌59'18	
desc. node	2629 Jun 25 16:38	0°♌52'47	
	2629 Jun 30 09:15	30°℞♋	
evening set	2629 Jul 08 17:04	26°♋26'16	
inferior conj	2629 Jul 14 20:39	22°♋44'56	-4°19'14
minimum elong	2629 Jul 14 12:13	22°♋58'07	4°17'04
min. Earth dist.	2629 Jul 14 16:44	22°♋51'03	0.29014 AU
morning rise	2629 Jul 20 07:21	19°♋26'46	
direct	2629 Aug 05 11:16	14°♋27'23	
greatest brilliancy	2629 Aug 15 21:41	16°♋24'36	-4.7m
	2629 Sep 07 03:07	0°♌	
morning max el	2629 Sep 23 14:12	14°♌43'53	45°59'35
	2629 Oct 08 13:44	0°♍	
asc. node	2629 Oct 16 19:52	8°♍55'27	
	2629 Nov 04 11:00	0°♎	
	2629 Nov 29 17:53	0°♏	
	2629 Dec 24 06:55	0°♐	
	2630 Jan 17 11:44	0°♑	
desc. node	2630 Feb 05 09:30	23°♑33'53	
	2630 Feb 10 13:16	0°♒	
	2630 Mar 06 14:09	0°♓	
morning set	2630 Mar 29 13:55	28°♓38'43	
	2630 Mar 30 16:03	0°♈	
	2630 Apr 23 20:02	0°♉	
superior conj	2630 May 07 05:19	16°♉33'40	-0°49'59
minimum elong	2630 May 07 14:42	17°♉02'38	0°49'36
max. Earth dist.	2630 May 09 22:00	19°♉53'26	1.72976 AU
	2630 May 18 02:39	0°♊	
asc. node	2630 May 29 12:48	14°♊04'09	
	2630 Jun 11 11:45	0°♋	
evening rise	2630 Jun 13 17:18	2°♋44'26	
	2630 Jul 05 22:57	0°♌	
	2630 Jul 30 12:27	0°♍	
	2630 Aug 24 05:23	0°♎	
desc. node	2630 Sep 18 02:10	29°♎55'22	
	2630 Sep 18 03:43	0°♏	
	2630 Oct 13 10:19	0°♐	
	2630 Nov 08 07:17	0°♑	
	2630 Dec 05 13:55	0°♒	
evening max el	2630 Dec 11 05:44	5°♒50'10	47°15'46
	2631 Jan 07 11:40	0°♓	
asc. node	2631 Jan 09 05:27	1°♓11'51	
greatest brilliancy	2631 Jan 20 19:56	7°♓23'39	-4.9m
retrograde	2631 Jan 31 03:30	9°♓25'49	
evening set	2631 Feb 17 04:06	3°♓43'32	
min. Earth dist.	2631 Feb 20 01:38	1°♓57'26	0.27213 AU
inferior conj	2631 Feb 20 21:05	1°♓27'17	8°24'52
minimum elong	2631 Feb 20 14:19	1°♓37'46	8°24'09

	2631 Feb 23 05:49	30°♑	
morning rise	2631 Feb 24 00:47	29°♒31'27	
direct	2631 Mar 13 11:10	23°♒39'54	
greatest brilliancy	2631 Mar 22 11:12	25°♒12'09	-4.8m
	2631 Apr 01 15:50	0°♓	
desc. node	2631 Apr 30 18:55	23°♓47'44	
morning max el	2631 May 02 02:46	25°♓05'09	46°15'39
	2631 May 07 01:41	0°♈	
	2631 Jun 04 05:23	0°♉	
	2631 Jun 30 16:08	0°♊	
	2631 Jul 26 07:42	0°♋	
	2631 Aug 20 10:15	0°♌	
asc. node	2631 Aug 21 22:12	1°♌48'32	
	2631 Sep 14 02:07	0°♍	
	2631 Oct 08 09:29	0°♎	
morning set	2631 Oct 26 19:03	22°♎55'00	
	2631 Nov 01 11:04	0°♏	
	2631 Nov 25 09:26	0°♐	
max. Earth dist.	2631 Dec 03 16:45	10°♐25'46	1.71269 AU
superior conj	2631 Dec 05 00:46	12°♐06'18	0°15'26
minimum elong	2631 Dec 05 04:40	12°♐18'35	0°15'15
behind sun begin	2631 Dec 04 19:33	11°♐49'57	
behind sun end	2631 Dec 05 13:47	12°♐47'13	
desc. node	2631 Dec 11 11:54	20°♐13'43	
	2631 Dec 19 06:25	0°♑	
	2632 Jan 12 03:09	0°♒	
evening rise	2632 Jan 15 04:40	3°♒50'58	
	2632 Feb 05 00:51	0°♓	
	2632 Feb 29 01:27	0°♈	
	2632 Mar 24 07:45	0°♉	
asc. node	2632 Apr 02 15:01	11°♉23'20	
	2632 Apr 17 23:05	0°♊	
	2632 May 13 03:57	0°♋	
	2632 Jun 08 06:46	0°♌	
	2632 Jul 06 06:08	0°♍	
evening max el	2632 Jul 15 05:56	8°♍51'24	45°29'13
desc. node	2632 Jul 23 04:32	16°♍11'16	
	2632 Aug 09 20:08	0°♎	
greatest brilliancy	2632 Aug 23 06:30	6°♎47'02	-4.7m
retrograde	2632 Sep 01 20:19	8°♎25'48	
evening set	2632 Sep 19 21:50	2°♎22'58	
inferior conj	2632 Sep 23 01:44	0°♎26'40	-8°39'05
minimum elong	2632 Sep 23 04:15	0°♎22'47	8°38'59
	2632 Sep 23 18:56	30°♑♍	
min. Earth dist.	2632 Sep 23 18:38	0°♎00'28	0.28377 AU
morning rise	2632 Sep 26 10:29	28°♍22'45	
direct	2632 Oct 14 10:47	22°♍17'07	
greatest brilliancy	2632 Oct 25 11:50	24°♍32'12	-4.8m
	2632 Nov 04 20:18	0°♎	
asc. node	2632 Nov 13 07:40	6°♎09'15	
morning max el	2632 Dec 03 20:25	24°♎59'38	46°42'58
	2632 Dec 08 17:11	0°♏	
	2633 Jan 04 19:28	0°♐	
	2633 Jan 30 05:47	0°♑	
	2633 Feb 24 00:42	0°♒	
desc. node	2633 Mar 04 21:16	10°♒48'50	
	2633 Mar 20 13:16	0°♓	
	2633 Apr 13 23:35	0°♈	
	2633 May 08 09:48	0°♉	
	2633 Jun 01 20:35	0°♊	
morning set	2633 Jun 08 02:11	7°♊38'49	
asc. node	2633 Jun 26 00:37	29°♊39'04	
	2633 Jun 26 07:26	0°♋	
max. Earth dist.	2633 Jul 13 13:08	21°♋10'29	1.73548 AU
superior conj	2633 Jul 14 19:11	22°♋42'49	0°42'44
minimum elong	2633 Jul 14 11:33	22°♋19'20	0°42'24
	2633 Jul 20 17:23	0°♌	
	2633 Aug 14 01:57	0°♍	
evening rise	2633 Aug 19 15:35	6°♍51'55	
	2633 Sep 07 09:37	0°♎	
	2633 Oct 01 17:32	0°♏	
desc. node	2633 Oct 15 14:09	17°♏03'48	
	2633 Oct 26 02:40	0°♐	
	2633 Nov 19 13:55	0°♑	
	2633 Dec 14 05:27	0°♒	
	2634 Jan 08 07:20	0°♓	
	2634 Feb 03 11:18	0°♈	
asc. node	2634 Feb 05 17:09	2°♈28'08	
evening max el	2634 Feb 21 03:14	18°♈44'48	46°46'26
	2634 Mar 04 20:06	0°♉	
greatest brilliancy	2634 Apr 01 20:16	19°♉16'03	-4.8m
retrograde	2634 Apr 12 10:09	21°♉21'17	
evening set	2634 Apr 28 18:30	16°♉09'20	
inferior conj	2634 May 03 16:14	13°♉08'13	5°28'59
minimum elong	2634 May 04 01:54	12°♉52'58	5°26'42
min. Earth dist.	2634 May 03 15:21	13°♉09'37	0.28428 AU
morning rise	2634 May 09 09:38	9°♉39'32	
direct	2634 May 24 22:06	5°♉00'00	
desc. node	2634 May 28 06:43	5°♉12'54	
greatest brilliancy	2634 Jun 03 18:41	6°♉45'49	-4.7m
	2634 Jul 07 12:27	0°♊	
morning max el	2634 Jul 12 16:13	4°♊49'04	45°43'58
	2634 Aug 06 07:53	0°♋	
	2634 Sep 02 05:32	0°♌	
asc. node	2634 Sep 18 10:04	18°♌51'13	
	2634 Sep 27 19:31	0°♍	
	2634 Oct 22 14:22	0°♎	
	2634 Nov 15 21:26	0°♏	
	2634 Dec 09 21:57	0°♐	
	2635 Jan 02 19:28	0°♑	
desc. node	2635 Jan 07 23:39	6°♑30'23	
morning set	2635 Jan 09 11:09	8°♑22'00	
	2635 Jan 26 16:03	0°♒	
	2635 Feb 19 13:09	0°♓	
superior conj	2635 Feb 20 03:12	0°♓44'05	-1°20'31
minimum elong	2635 Feb 19 19:04	0°♓18'35	1°20'23
max. Earth dist.	2635 Feb 23 08:34	4°♓46'39	1.71429 AU
	2635 Mar 15 12:12	0°♈	
evening rise	2635 Apr 01 12:20	21°♈11'09	
	2635 Apr 08 14:43	0°♉	
asc. node	2635 May 01 02:59	27°♉47'54	
	2635 May 02 21:59	0°♊	
	2635 May 27 10:57	0°♋	
	2635 Jun 21 06:59	0°♌	
	2635 Jul 16 12:51	0°♍	
	2635 Aug 11 10:34	0°♎	
desc. node	2635 Aug 20 16:13	10°♎25'05	
	2635 Sep 07 13:55	0°♏	
evening max el	2635 Sep 26 19:16	19°♏39'37	46°22'23
	2635 Oct 07 22:35	0°♐	
greatest brilliancy	2635 Nov 06 03:07	19°♐13'26	-4.9m
retrograde	2635 Nov 15 11:30	20°♐51'41	
evening set	2635 Nov 30 01:50	16°♐42'03	
inferior conj	2635 Dec 06 02:09	13°♐12'25	-1°28'42
minimum elong	2635 Dec 06 05:32	13°♐07'17	1°27'36
min. Earth dist.	2635 Dec 06 11:02	12°♐58'55	0.26604 AU
asc. node	2635 Dec 11 19:32	9°♐50'58	
morning rise	2635 Dec 12 08:41	9°♐33'17	
direct	2635 Dec 26 14:01	5°♐30'18	
greatest brilliancy	2636 Jan 06 03:45	7°♐37'13	-4.9m
	2636 Feb 06 07:59	0°♑	

morning max el	2636 Feb 15 04:22	8°♑38'43	46°55'38
	2636 Mar 06 06:44	0°♒	
desc. node	2636 Apr 01 09:15	29°♒40'22	
	2636 Apr 01 16:01	0°♓	
	2636 Apr 27 04:05	0°♈	
	2636 May 22 06:58	0°♉	
	2636 Jun 16 04:59	0°♊	
	2636 Jul 10 23:07	0°♋	
asc. node	2636 Jul 23 12:24	15°♋17'49	
	2636 Aug 04 12:51	0°♌	
morning set	2636 Aug 14 21:29	12°♌43'09	
	2636 Aug 28 21:53	0°♍	
max. Earth dist.	2636 Sep 17 06:58	24°♍00'04	1.72621 AU
superior conj	2636 Sep 20 10:49	27°♍55'37	1°24'39
minimum elong	2636 Sep 20 12:29	28°♍00'48	1°24'39
	2636 Sep 22 02:51	0°♎	
	2636 Oct 16 05:13	0°♏	
evening rise	2636 Oct 28 07:31	15°♏05'14	
	2636 Nov 09 06:20	0°♐	
desc. node	2636 Nov 12 02:07	3°♐31'30	
	2636 Dec 03 07:06	0°♑	
	2636 Dec 27 08:27	0°♒	
	2637 Jan 20 12:19	0°♓	
	2637 Feb 13 22:43	0°♈	
asc. node	2637 Mar 05 05:06	23°♈12'40	
	2637 Mar 10 22:35	0°♉	
	2637 Apr 06 00:54	0°♊	
evening max el	2637 May 03 02:20	28°♊27'55	45°43'13
	2637 May 04 16:24	0°♋	
greatest brilliancy	2637 Jun 09 23:53	26°♋38'20	-4.7m
retrograde	2637 Jun 21 01:31	28°♋50'53	
desc. node	2637 Jun 24 18:40	28°♋34'24	
evening set	2637 Jul 06 08:09	24°♋19'48	
inferior conj	2637 Jul 12 13:07	20°♋36'11	-4°01'54
minimum elong	2637 Jul 12 05:06	20°♋48'44	3°59'49
min. Earth dist.	2637 Jul 12 08:37	20°♋43'13	0.29007 AU
morning rise	2637 Jul 18 02:09	17°♋14'59	
direct	2637 Aug 03 04:14	12°♋18'56	
greatest brilliancy	2637 Aug 13 13:05	14°♋15'13	-4.7m
	2637 Sep 07 10:24	0°♌	
morning max el	2637 Sep 21 06:35	12°♌34'00	45°58'13
	2637 Oct 08 07:20	0°♍	
asc. node	2637 Oct 15 22:03	8°♍16'47	
	2637 Nov 04 01:14	0°♎	
	2637 Nov 29 06:43	0°♏	
	2637 Dec 23 19:03	0°♐	
	2638 Jan 16 23:26	0°♑	
desc. node	2638 Feb 04 11:26	23°♑04'03	
	2638 Feb 10 00:41	0°♒	
	2638 Mar 06 01:20	0°♓	
morning set	2638 Mar 27 03:06	26°♓16'14	
	2638 Mar 30 03:01	0°♈	
	2638 Apr 23 06:50	0°♉	
superior conj	2638 May 04 21:01	14°♉20'35	-0°52'44
minimum elong	2638 May 05 06:41	14°♉50'28	0°52'22
max. Earth dist.	2638 May 07 18:36	17°♉55'36	1.72932 AU
	2638 May 17 13:23	0°♊	
asc. node	2638 May 28 14:51	13°♊37'28	
	2638 Jun 10 22:30	0°♋	
evening rise	2638 Jun 11 11:20	0°♋39'25	
	2638 Jul 05 09:51	0°♌	
	2638 Jul 29 23:38	0°♍	
	2638 Aug 23 17:03	0°♎	
desc. node	2638 Sep 17 04:16	29°♎24'30	
	2638 Sep 17 16:09	0°♏	
	2638 Oct 12 24:00	0°♐	
	2638 Nov 07 23:14	0°♑	
	2638 Dec 05 11:13	0°♒	
evening max el	2638 Dec 08 20:49	3°♒28'52	47°15'03
asc. node	2639 Jan 08 07:25	29°♒45'24	
	2639 Jan 08 16:36	0°♓	
greatest brilliancy	2639 Jan 18 09:41	4°♓57'47	-4.9m
retrograde	2639 Jan 28 17:23	6°♓59'34	
evening set	2639 Feb 14 13:41	1°♓23'52	
	2639 Feb 16 20:56	30°♑℞♒	
min. Earth dist.	2639 Feb 17 14:24	29°♒32'57	0.27156 AU
inferior conj	2639 Feb 18 10:18	29°♒02'05	8°16'54
minimum elong	2639 Feb 18 02:51	29°♒13'39	8°16'02
morning rise	2639 Feb 21 16:19	27°♒02'50	
direct	2639 Mar 11 00:26	21°♒15'55	
greatest brilliancy	2639 Mar 19 23:34	22°♒47'31	-4.9m
	2639 Apr 02 23:03	0°♓	
morning max el	2639 Apr 29 16:08	22°♓44'26	46°17'18
desc. node	2639 Apr 29 21:00	22°♓56'19	
	2639 May 06 22:26	0°♈	
	2639 Jun 03 20:40	0°♉	
	2639 Jun 30 05:13	0°♊	
	2639 Jul 25 19:40	0°♋	
	2639 Aug 19 21:36	0°♌	
asc. node	2639 Aug 21 00:14	1°♌20'24	
	2639 Sep 13 13:09	0°♍	
	2639 Oct 07 20:22	0°♎	
morning set	2639 Oct 24 09:50	20°♎37'29	
	2639 Oct 31 21:54	0°♏	
	2639 Nov 24 20:18	0°♐	
max. Earth dist.	2639 Nov 30 22:31	7°♐39'01	1.71300 AU
superior conj	2639 Dec 02 12:16	9°♐37'33	0°19'13
minimum elong	2639 Dec 02 17:04	9°♐52'36	0°18'58
desc. node	2639 Dec 10 13:53	19°♐45'41	
	2639 Dec 18 17:21	0°♑	
	2640 Jan 11 14:10	0°♒	
evening rise	2640 Jan 12 14:47	1°♒17'19	
	2640 Feb 04 11:57	0°♓	
	2640 Feb 28 12:41	0°♈	
	2640 Mar 23 19:12	0°♉	
asc. node	2640 Apr 01 17:09	10°♉54'33	
	2640 Apr 17 10:59	0°♊	
	2640 May 12 16:44	0°♋	
	2640 Jun 07 21:25	0°♌	
	2640 Jul 06 01:48	0°♍	
evening max el	2640 Jul 12 19:56	6°♍36'35	45°28'20
desc. node	2640 Jul 22 06:28	15°♍15'57	
	2640 Aug 11 01:01	0°♎	
greatest brilliancy	2640 Aug 20 20:28	4°♎33'29	-4.7m
retrograde	2640 Aug 30 10:20	6°♎12'39	
evening set	2640 Sep 17 12:49	0°♎09'20	
	2640 Sep 17 19:02	30°♏℞♍	
inferior conj	2640 Sep 20 16:53	28°♍12'47	-8°40'40
minimum elong	2640 Sep 20 18:34	28°♍10'10	8°40'38
min. Earth dist.	2640 Sep 21 09:18	27°♍47'16	0.28434 AU
morning rise	2640 Sep 24 00:05	26°♍10'58	
direct	2640 Oct 12 01:53	20°♍02'19	
greatest brilliancy	2640 Oct 23 03:37	22°♍17'18	-4.8m
	2640 Nov 05 19:43	0°♎	
asc. node	2640 Nov 12 09:41	5°♎02'33	
morning max el	2640 Dec 01 09:58	22°♎37'03	46°41'39
	2640 Dec 08 13:09	0°♏	
	2641 Jan 04 10:46	0°♐	
	2641 Jan 29 19:13	0°♑	
	2641 Feb 23 13:07	0°♒	
desc. node	2641 Mar 03 23:23	10°♒18'08	

	2641 Mar 20 01:02	0°♓	
	2641 Apr 13 10:54	0°♈	
	2641 May 07 20:47	0°♉	
	2641 Jun 01 07:19	0°♊	
morning set	2641 Jun 05 19:41	5°♊32'28	
asc. node	2641 Jun 25 02:36	29°♊12'39	
	2641 Jun 25 18:01	0°♋	
max. Earth dist.	2641 Jul 11 08:47	19°♋11'02	1.73554 AU
superior conj	2641 Jul 12 13:41	20°♋39'50	0°39'59
minimum elong	2641 Jul 12 06:22	20°♋17'23	0°39'40
	2641 Jul 20 03:54	0°♌	
	2641 Aug 13 12:32	0°♍	
evening rise	2641 Aug 17 10:10	4°♍48'31	
	2641 Sep 06 20:24	0°♎	
	2641 Oct 01 04:38	0°♏	
desc. node	2641 Oct 14 16:16	16°♏35'28	
	2641 Oct 25 14:12	0°♐	
	2641 Nov 19 02:01	0°♑	
	2641 Dec 13 18:21	0°♒	
	2642 Jan 07 21:39	0°♓	
	2642 Feb 03 04:41	0°♈	
asc. node	2642 Feb 04 19:15	1°♈45'22	
evening max el	2642 Feb 18 16:35	16°♈22'41	46°48'35
	2642 Mar 05 00:29	0°♉	
greatest brilliancy	2642 Mar 30 12:58	17°♉02'47	-4.8m
retrograde	2642 Apr 10 01:46	19°♉07'39	
evening set	2642 Apr 26 12:56	13°♉51'26	
inferior conj	2642 May 01 07:50	10°♉54'45	5°45'09
minimum elong	2642 May 01 17:40	10°♉39'15	5°42'55
min. Earth dist.	2642 May 01 07:03	10°♉56'00	0.28401 AU
morning rise	2642 May 06 22:40	7°♉29'42	
direct	2642 May 22 12:36	2°♉46'46	
desc. node	2642 May 27 08:44	3°♉13'17	
greatest brilliancy	2642 Jun 01 09:48	4°♉33'01	-4.7m
	2642 Jul 07 12:44	0°♊	
morning max el	2642 Jul 10 07:30	2°♊37'31	45°44'33
	2642 Aug 05 23:52	0°♋	
	2642 Sep 01 18:47	0°♌	
asc. node	2642 Sep 17 12:15	18°♌21'03	
	2642 Sep 27 07:33	0°♍	
	2642 Oct 22 01:49	0°♎	
	2642 Nov 15 08:37	0°♏	
	2642 Dec 09 09:00	0°♐	
	2643 Jan 02 06:26	0°♑	
morning set	2643 Jan 06 21:05	5°♑47'48	
desc. node	2643 Jan 07 01:39	6°♑02'10	
	2643 Jan 26 02:57	0°♒	
superior conj	2643 Feb 17 13:38	28°♒12'11	-1°19'00
minimum elong	2643 Feb 17 04:43	27°♒44'11	1°18'49
	2643 Feb 18 24:00	0°♓	
max. Earth dist.	2643 Feb 20 13:23	1°♓57'17	1.71391 AU
	2643 Mar 14 23:02	0°♈	
evening rise	2643 Mar 30 00:37	18°♈46'35	
	2643 Apr 08 01:34	0°♉	
asc. node	2643 Apr 30 05:02	27°♉20'36	
	2643 May 02 08:55	0°♊	
	2643 May 26 22:08	0°♋	
	2643 Jun 20 18:38	0°♌	
	2643 Jul 16 01:23	0°♍	
	2643 Aug 11 00:46	0°♎	
desc. node	2643 Aug 19 18:24	9°♎49'06	
	2643 Sep 07 07:48	0°♏	
evening max el	2643 Sep 24 08:50	17°♏19'47	46°20'05
	2643 Oct 08 05:25	0°♐	
greatest brilliancy	2643 Nov 03 15:25	16°♐47'34	-4.9m
retrograde	2643 Nov 13 00:15	18°♐25'49	
evening set	2643 Nov 27 15:56	14°♐13'30	
inferior conj	2643 Dec 03 14:33	10°♐46'02	-1°52'31
minimum elong	2643 Dec 03 18:49	10°♐39'34	1°51'10
min. Earth dist.	2643 Dec 04 00:33	10°♐30'53	0.26643 AU
morning rise	2643 Dec 09 21:12	7°♐07'05	
asc. node	2643 Dec 10 21:31	6°♐35'36	
direct	2643 Dec 24 03:28	3°♐03'10	
greatest brilliancy	2644 Jan 03 17:47	5°♐11'11	-4.9m
	2644 Feb 06 10:25	0°♑	
morning max el	2644 Feb 12 19:05	6°♑17'06	46°56'09
	2644 Mar 06 00:05	0°♒	
desc. node	2644 Mar 31 11:21	29°♒04'43	
	2644 Apr 01 06:19	0°♓	
	2644 Apr 26 16:52	0°♈	
	2644 May 21 18:50	0°♉	
	2644 Jun 15 16:16	0°♊	
	2644 Jul 10 10:02	0°♋	
asc. node	2644 Jul 22 14:27	14°♋51'04	
	2644 Aug 03 23:34	0°♌	
morning set	2644 Aug 12 15:11	10°♌37'13	
	2644 Aug 28 08:30	0°♍	
max. Earth dist.	2644 Sep 15 00:47	21°♍53'27	1.72663 AU
superior conj	2644 Sep 18 03:51	25°♍46'26	1°24'52
minimum elong	2644 Sep 18 04:48	25°♍49'20	1°24'53
	2644 Sep 21 13:30	0°♎	
	2644 Oct 15 15:57	0°♏	
evening rise	2644 Oct 25 21:41	12°♏46'03	
	2644 Nov 08 17:13	0°♐	
desc. node	2644 Nov 11 04:06	3°♐03'38	
	2644 Dec 02 18:13	0°♑	
	2644 Dec 26 19:52	0°♒	
	2645 Jan 20 00:07	0°♓	
	2645 Feb 13 11:05	0°♈	
asc. node	2645 Mar 04 07:13	22°♈40'02	
	2645 Mar 10 12:01	0°♉	
	2645 Apr 05 16:39	0°♊	
evening max el	2645 Apr 30 18:54	26°♊18'20	45°44'56
	2645 May 04 15:19	0°♋	
greatest brilliancy	2645 Jun 07 16:01	24°♋29'28	-4.7m
retrograde	2645 Jun 18 18:11	26°♋42'02	
desc. node	2645 Jun 23 20:39	26°♋10'55	
evening set	2645 Jul 03 23:14	22°♋12'59	
inferior conj	2645 Jul 10 05:24	18°♋27'15	-3°44'14
minimum elong	2645 Jul 09 21:50	18°♋39'06	3°42'14
min. Earth dist.	2645 Jul 10 00:33	18°♋34'50	0.28996 AU
morning rise	2645 Jul 15 20:37	15°♋02'52	
direct	2645 Jul 31 20:57	10°♋10'21	
greatest brilliancy	2645 Aug 11 04:04	12°♋05'12	-4.7m
	2645 Sep 07 15:26	0°♌	
morning max el	2645 Sep 18 22:16	10°♌22'44	45°57'01
	2645 Oct 08 00:25	0°♍	
asc. node	2645 Oct 14 23:58	7°♍38'09	
	2645 Nov 03 15:09	0°♎	
	2645 Nov 28 19:17	0°♏	
	2645 Dec 23 06:55	0°♐	
	2646 Jan 16 10:55	0°♑	
desc. node	2646 Feb 03 13:34	22°♑35'26	
	2646 Feb 09 11:56	0°♒	
	2646 Mar 05 12:25	0°♓	
morning set	2646 Mar 24 15:46	23°♓52'12	
	2646 Mar 29 13:56	0°♈	
	2646 Apr 22 17:38	0°♉	
superior conj	2646 May 02 12:06	12°♉05'34	-0°55'27
minimum elong	2646 May 02 22:01	12°♉36'13	0°55'05

max. Earth dist.	2646 May 05 14:47	15°♉56'23	1.72884 AU
	2646 May 17 00:06	0°♊	
asc. node	2646 May 27 16:48	13°♊10'27	
evening rise	2646 Jun 09 04:46	28°♊32'31	
	2646 Jun 10 09:15	0°♋	
	2646 Jul 04 20:45	0°♌	
	2646 Jul 29 10:51	0°♍	
	2646 Aug 23 04:46	0°♎	
desc. node	2646 Sep 16 06:21	28°♎53'30	
	2646 Sep 17 04:39	0°♏	
	2646 Oct 12 13:47	0°♐	
	2646 Nov 07 15:22	0°♑	
	2646 Dec 05 09:07	0°♒	
evening max el	2646 Dec 06 11:09	1°♒06'09	47°14'23
asc. node	2647 Jan 07 09:27	28°♒16'45	
	2647 Jan 10 09:48	0°♓	
greatest brilliancy	2647 Jan 16 00:01	2°♓33'16	-4.9m
retrograde	2647 Jan 26 06:54	4°♓34'02	
	2647 Feb 10 09:15	30°℞♒	
evening set	2647 Feb 11 23:19	29°♒05'07	
min. Earth dist.	2647 Feb 15 03:40	27°♒08'45	0.27104 AU
inferior conj	2647 Feb 15 23:41	26°♒37'40	8°08'05
minimum elong	2647 Feb 15 15:35	26°♒50'14	8°07'01
morning rise	2647 Feb 19 08:10	24°♒34'36	
direct	2647 Mar 08 13:17	18°♒52'30	
greatest brilliancy	2647 Mar 17 12:43	20°♒23'58	-4.9m
	2647 Apr 03 21:28	0°♓	
morning max el	2647 Apr 27 04:51	20°♓21'44	46°18'44
desc. node	2647 Apr 28 22:59	22°♓05'27	
	2647 May 06 18:35	0°♈	
	2647 Jun 03 11:53	0°♉	
	2647 Jun 29 18:22	0°♊	
	2647 Jul 25 07:44	0°♋	
	2647 Aug 19 09:03	0°♌	
asc. node	2647 Aug 20 02:23	0°♌52'21	
	2647 Sep 13 00:16	0°♍	
	2647 Oct 07 07:19	0°♎	
morning set	2647 Oct 22 00:34	18°♎19'30	
	2647 Oct 31 08:49	0°♏	
	2647 Nov 24 07:16	0°♐	
max. Earth dist.	2647 Nov 28 04:45	4°♐53'26	1.71329 AU
superior conj	2647 Nov 30 00:02	7°♐09'20	0°22'55
minimum elong	2647 Nov 30 05:40	7°♐27'00	0°22'39
desc. node	2647 Dec 09 15:55	19°♐17'33	
	2647 Dec 18 04:22	0°♑	
evening rise	2648 Jan 10 01:14	28°♑44'39	
	2648 Jan 11 01:13	0°♒	
	2648 Feb 03 23:04	0°♓	
	2648 Feb 27 23:56	0°♈	
	2648 Mar 23 06:45	0°♉	
asc. node	2648 Mar 31 19:07	10°♉24'59	
	2648 Apr 16 23:03	0°♊	
	2648 May 12 05:47	0°♋	
	2648 Jun 07 12:32	0°♌	
	2648 Jul 05 22:28	0°♍	
evening max el	2648 Jul 10 09:39	4°♍20'17	45°27'38
desc. node	2648 Jul 21 08:39	14°♍19'03	
	2648 Aug 12 19:46	0°♎	
greatest brilliancy	2648 Aug 18 09:58	2°♎18'35	-4.7m
retrograde	2648 Aug 28 00:38	3°♎58'50	
	2648 Sep 11 10:48	30°℞♍	
evening set	2648 Sep 15 03:18	27°♍55'19	
inferior conj	2648 Sep 18 07:56	25°♍58'03	-8°41'26
minimum elong	2648 Sep 18 08:46	25°♍56'45	8°41'26
min. Earth dist.	2648 Sep 18 23:47	25°♍33'26	0.28490 AU
morning rise	2648 Sep 21 14:00	23°♍57'57	
direct	2648 Oct 09 16:53	17°♍46'35	
greatest brilliancy	2648 Oct 20 19:27	20°♍01'55	-4.8m
	2648 Nov 06 13:22	0°♎	
asc. node	2648 Nov 11 11:43	3°♎56'53	
morning max el	2648 Nov 29 00:21	20°♎16'03	46°40'24
	2648 Dec 08 08:46	0°♏	
	2649 Jan 04 02:06	0°♐	
	2649 Jan 29 08:43	0°♑	
	2649 Feb 23 01:37	0°♒	
desc. node	2649 Mar 03 01:28	9°♒46'56	
	2649 Mar 19 12:52	0°♓	
	2649 Apr 12 22:19	0°♈	
	2649 May 07 07:54	0°♉	
	2649 May 31 18:15	0°♊	
morning set	2649 Jun 03 13:09	3°♊25'19	
asc. node	2649 Jun 24 04:43	28°♊45'58	
	2649 Jun 25 04:50	0°♋	
max. Earth dist.	2649 Jul 09 05:12	17°♋13'09	1.73564 AU
superior conj	2649 Jul 10 07:59	18°♋35'27	0°37'11
minimum elong	2649 Jul 10 01:04	18°♋14'10	0°36'52
	2649 Jul 19 14:42	0°♌	
	2649 Aug 12 23:24	0°♍	
evening rise	2649 Aug 15 04:34	2°♍43'47	
	2649 Sep 06 07:29	0°♎	
	2649 Sep 30 16:03	0°♏	
desc. node	2649 Oct 13 18:12	16°♏05'45	
	2649 Oct 25 02:03	0°♐	
	2649 Nov 18 14:28	0°♑	
	2649 Dec 13 07:39	0°♒	
	2650 Jan 07 12:25	0°♓	
	2650 Feb 02 22:45	0°♈	
asc. node	2650 Feb 03 21:25	1°♈01'32	
evening max el	2650 Feb 16 06:58	14°♈02'30	46°50'54
	2650 Mar 05 07:08	0°♉	
greatest brilliancy	2650 Mar 28 05:11	14°♉48'41	-4.8m
retrograde	2650 Apr 07 18:01	16°♉54'01	
evening set	2650 Apr 24 07:33	11°♉33'18	
inferior conj	2650 Apr 28 23:35	8°♉41'05	6°00'43
minimum elong	2650 Apr 29 09:31	8°♉25'27	5°58'33
min. Earth dist.	2650 Apr 28 22:29	8°♉42'49	0.28374 AU
morning rise	2650 May 04 11:45	5°♉20'07	
direct	2650 May 20 03:37	0°♉33'23	
desc. node	2650 May 26 10:45	1°♉18'00	
greatest brilliancy	2650 May 30 00:31	2°♉19'42	-4.7m
	2650 Jul 07 12:08	0°♊	
morning max el	2650 Jul 07 23:48	0°♊27'47	45°44'57
	2650 Aug 05 15:53	0°♋	
	2650 Sep 01 08:18	0°♌	
asc. node	2650 Sep 16 14:13	17°♌49'13	
	2650 Sep 26 19:54	0°♍	
	2650 Oct 21 13:36	0°♎	
	2650 Nov 14 20:06	0°♏	
	2650 Dec 08 20:21	0°♐	
	2651 Jan 01 17:41	0°♑	
morning set	2651 Jan 04 07:03	3°♑12'51	
desc. node	2651 Jan 06 03:45	5°♑33'25	
	2651 Jan 25 14:09	0°♒	
superior conj	2651 Feb 14 23:57	25°♒38'51	-1°17'19
minimum elong	2651 Feb 14 14:19	25°♒08'34	1°17'06
max. Earth dist.	2651 Feb 17 19:37	29°♒11'13	1.71354 AU
	2651 Feb 18 11:10	0°♓	
	2651 Mar 14 10:10	0°♈	
evening rise	2651 Mar 27 12:59	16°♈21'16	
	2651 Apr 07 12:41	0°♉	
asc. node	2651 Apr 29 07:02	26°♉52'24	

	2651 May 01 20:06	0°♊	
	2651 May 26 09:34	0°♋	
	2651 Jun 20 06:35	0°♌	
	2651 Jul 15 14:17	0°♍	
	2651 Aug 10 15:30	0°♎	
desc. node	2651 Aug 18 20:25	9°♎11'15	
	2651 Sep 07 02:37	0°♏	
evening max el	2651 Sep 21 23:20	15°♏01'11	46°17'41
	2651 Oct 08 15:29	0°♐	
greatest brilliancy	2651 Nov 01 03:47	14°♐20'48	-4.8m
retrograde	2651 Nov 10 12:56	15°♐58'38	
evening set	2651 Nov 25 06:15	11°♐43'49	
inferior conj	2651 Dec 01 02:57	8°♐18'34	-2°16'01
minimum elong	2651 Dec 01 08:03	8°♐10'49	2°14'26
min. Earth dist.	2651 Dec 01 13:57	8°♐01'52	0.26683 AU
morning rise	2651 Dec 07 09:25	4°♐39'54	
asc. node	2651 Dec 09 23:36	3°♐22'50	
direct	2651 Dec 21 17:02	0°♐35'10	
greatest brilliancy	2652 Jan 01 07:25	2°♐43'32	-4.9m
	2652 Feb 06 11:54	0°♑	
morning max el	2652 Feb 10 09:25	3°♑53'26	46°56'34
	2652 Mar 05 17:26	0°♒	
desc. node	2652 Mar 30 13:16	28°♒27'52	
	2652 Mar 31 20:48	0°♓	
	2652 Apr 26 05:53	0°♈	
	2652 May 21 06:57	0°♉	
	2652 Jun 15 03:47	0°♊	
	2652 Jul 09 21:10	0°♋	
asc. node	2652 Jul 21 16:35	14°♋23'52	
	2652 Aug 03 10:30	0°♌	
morning set	2652 Aug 10 09:09	8°♌31'25	
	2652 Aug 27 19:24	0°♍	
max. Earth dist.	2652 Sep 12 17:03	19°♍41'10	1.72712 AU
superior conj	2652 Sep 15 21:04	23°♍36'54	1°24'58
minimum elong	2652 Sep 15 21:17	23°♍37'35	1°24'58
	2652 Sep 21 00:28	0°♎	
	2652 Oct 15 03:03	0°♏	
evening rise	2652 Oct 23 11:48	10°♏25'35	
	2652 Nov 08 04:30	0°♐	
desc. node	2652 Nov 10 06:09	2°♐34'50	
	2652 Dec 02 05:43	0°♑	
	2652 Dec 26 07:38	0°♒	
	2653 Jan 19 12:17	0°♓	
	2653 Feb 12 23:50	0°♈	
asc. node	2653 Mar 03 09:10	22°♈05'40	
	2653 Mar 10 01:53	0°♉	
	2653 Apr 05 09:00	0°♊	
evening max el	2653 Apr 28 11:20	24°♊07'28	45°46'43
	2653 May 04 15:37	0°♋	
greatest brilliancy	2653 Jun 05 08:58	22°♋21'10	-4.7m
retrograde	2653 Jun 16 10:36	24°♋33'09	
desc. node	2653 Jun 22 22:48	23°♋42'40	
evening set	2653 Jul 01 14:46	20°♋05'59	
inferior conj	2653 Jul 07 21:57	16°♋18'32	-3°26'26
minimum elong	2653 Jul 07 14:53	16°♋29'37	3°24'30
min. Earth dist.	2653 Jul 07 17:05	16°♋26'10	0.28980 AU
morning rise	2653 Jul 13 15:12	12°♋50'58	
direct	2653 Jul 29 13:30	8°♋02'04	
greatest brilliancy	2653 Aug 08 19:32	9°♋55'40	-4.7m
	2653 Sep 07 18:47	0°♌	
morning max el	2653 Sep 16 13:10	8°♌09'14	45°55'42
	2653 Oct 07 17:22	0°♍	
asc. node	2653 Oct 14 02:03	6°♍59'39	
	2653 Nov 03 05:13	0°♎	
	2653 Nov 28 08:06	0°♏	
	2653 Dec 22 19:07	0°♐	
	2654 Jan 15 22:44	0°♑	
desc. node	2654 Feb 02 15:39	22°♑05'40	
	2654 Feb 08 23:29	0°♒	
	2654 Mar 04 23:45	0°♓	
morning set	2654 Mar 22 04:11	21°♓26'33	
	2654 Mar 29 01:05	0°♈	
	2654 Apr 22 04:40	0°♉	
superior conj	2654 Apr 30 03:12	9°♉49'44	-0°58'05
minimum elong	2654 Apr 30 13:17	10°♉20'55	0°57'43
max. Earth dist.	2654 May 03 09:54	13°♉53'08	1.72833 AU
	2654 May 16 11:05	0°♊	
asc. node	2654 May 26 18:57	12°♊43'21	
evening rise	2654 Jun 06 22:14	26°♊25'01	
	2654 Jun 09 20:15	0°♋	
	2654 Jul 04 07:52	0°♌	
	2654 Jul 28 22:13	0°♍	
	2654 Aug 22 16:37	0°♎	
desc. node	2654 Sep 15 08:18	28°♎21'37	
	2654 Sep 16 17:21	0°♏	
	2654 Oct 12 03:53	0°♐	
	2654 Nov 07 08:04	0°♑	
evening max el	2654 Dec 04 00:31	28°♑39'51	47°13'22
	2654 Dec 05 08:21	0°♒	
asc. node	2655 Jan 06 11:36	26°♒43'23	
	2655 Jan 13 07:01	0°♓	
greatest brilliancy	2655 Jan 13 14:36	0°♓07'11	-4.9m
retrograde	2655 Jan 23 19:48	2°♓06'32	
	2655 Feb 02 22:40	30°℞♒	
evening set	2655 Feb 09 08:32	26°♒44'27	
min. Earth dist.	2655 Feb 12 17:07	24°♒42'00	0.27051 AU
inferior conj	2655 Feb 13 12:47	24°♒11'27	7°58'11
minimum elong	2655 Feb 13 04:07	24°♒24'55	7°56'55
morning rise	2655 Feb 16 23:59	22°♒04'16	
direct	2655 Mar 06 01:23	16°♒27'01	
greatest brilliancy	2655 Mar 15 02:15	17°♒59'17	-4.9m
	2655 Apr 04 14:38	0°♓	
morning max el	2655 Apr 24 17:08	17°♓57'00	46°20'23
desc. node	2655 Apr 28 01:06	21°♓15'02	
	2655 May 06 14:22	0°♈	
	2655 Jun 03 03:03	0°♉	
	2655 Jun 29 07:33	0°♊	
	2655 Jul 24 19:51	0°♋	
	2655 Aug 18 20:33	0°♌	
asc. node	2655 Aug 19 04:20	0°♌23'32	
	2655 Sep 12 11:24	0°♍	
	2655 Oct 06 18:18	0°♎	
morning set	2655 Oct 19 15:48	16°♎03'07	
	2655 Oct 30 19:46	0°♏	
	2655 Nov 23 18:17	0°♐	
max. Earth dist.	2655 Nov 25 14:27	2°♐18'36	1.71369 AU
superior conj	2655 Nov 27 12:04	4°♐41'50	0°26'33
minimum elong	2655 Nov 27 18:29	5°♐01'57	0°26'15
desc. node	2655 Dec 08 18:04	18°♐49'32	
	2655 Dec 17 15:29	0°♑	
evening rise	2656 Jan 07 11:35	26°♑11'14	
	2656 Jan 10 12:26	0°♒	
	2656 Feb 03 10:22	0°♓	
	2656 Feb 27 11:23	0°♈	
	2656 Mar 22 18:28	0°♉	
asc. node	2656 Mar 30 21:09	9°♉55'07	
	2656 Apr 16 11:17	0°♊	
	2656 May 11 19:00	0°♋	
	2656 Jun 07 03:55	0°♌	
	2656 Jul 05 19:50	0°♍	
evening max el	2656 Jul 08 00:05	2°♍05'53	45°27'10

desc. node	2656 Jul 20 10:40	13°♍20'39	
	2656 Aug 15 18:20	0°♎	
greatest brilliancy	2656 Aug 15 23:08	0°♎04'05	-4.7m
retrograde	2656 Aug 25 15:45	1°♎46'11	
	2656 Sep 04 03:23	30°℞♍	
evening set	2656 Sep 12 17:43	25°♍42'51	
inferior conj	2656 Sep 15 23:14	23°♍44'24	-8°41'27
minimum elong	2656 Sep 15 23:14	23°♍44'24	8°41'28
min. Earth dist.	2656 Sep 16 14:12	23°♍21'12	0.28540 AU
morning rise	2656 Sep 19 04:33	21°♍45'36	
direct	2656 Oct 07 08:28	15°♍32'07	
greatest brilliancy	2656 Oct 18 11:08	17°♍47'38	-4.8m
	2656 Nov 07 02:07	0°♎	
asc. node	2656 Nov 10 13:49	2°♎53'44	
morning max el	2656 Nov 26 15:43	17°♎58'27	46°39'02
	2656 Dec 08 03:37	0°♏	
	2657 Jan 03 17:04	0°♐	
	2657 Jan 28 22:03	0°♑	
	2657 Feb 22 14:03	0°♒	
desc. node	2657 Mar 02 03:23	9°♒15'18	
	2657 Mar 19 00:44	0°♓	
	2657 Apr 12 09:46	0°♈	
	2657 May 06 19:02	0°♉	
	2657 May 31 05:09	0°♊	
morning set	2657 Jun 01 06:12	1°♊16'55	
asc. node	2657 Jun 23 06:45	28°♊19'13	
	2657 Jun 24 15:35	0°♋	
max. Earth dist.	2657 Jul 07 03:14	15°♋20'24	1.73569 AU
superior conj	2657 Jul 08 02:01	16°♋30'26	0°34'18
minimum elong	2657 Jul 07 19:30	16°♋10'24	0°34'00
	2657 Jul 19 01:25	0°♌	
	2657 Aug 12 10:12	0°♍	
evening rise	2657 Aug 12 23:02	0°♍39'33	
	2657 Sep 05 18:28	0°♎	
	2657 Sep 30 03:19	0°♏	
desc. node	2657 Oct 12 20:18	15°♏37'03	
	2657 Oct 24 13:44	0°♐	
	2657 Nov 18 02:42	0°♑	
	2657 Dec 12 20:47	0°♒	
	2658 Jan 07 03:10	0°♓	
asc. node	2658 Feb 02 23:18	0°♈16'37	
	2658 Feb 02 17:08	0°♈	
evening max el	2658 Feb 13 22:10	11°♈44'28	46°52'50
	2658 Mar 05 16:26	0°♉	
greatest brilliancy	2658 Mar 25 20:42	12°♉32'58	-4.8m
retrograde	2658 Apr 05 10:17	14°♉38'54	
evening set	2658 Apr 22 01:50	9°♉13'45	
inferior conj	2658 Apr 26 14:53	6°♉25'59	6°16'01
minimum elong	2658 Apr 27 00:53	6°♉10'16	6°13'54
min. Earth dist.	2658 Apr 26 13:15	6°♉28'34	0.28347 AU
morning rise	2658 May 02 00:14	3°♉09'25	
	2658 May 08 15:14	30°℞♈	
direct	2658 May 17 18:39	28°♈18'46	
desc. node	2658 May 25 12:51	29°♈26'01	
	2658 May 27 08:58	0°♉	
greatest brilliancy	2658 May 27 14:20	0°♉04'33	-4.7m
morning max el	2658 Jul 05 16:16	28°♉18'31	45°45'29
	2658 Jul 07 10:32	0°♊	
	2658 Aug 05 07:30	0°♋	
	2658 Aug 31 21:29	0°♌	
asc. node	2658 Sep 15 16:12	17°♌18'15	
	2658 Sep 26 07:58	0°♍	
	2658 Oct 21 01:06	0°♎	
	2658 Nov 14 07:18	0°♏	
	2658 Dec 08 07:22	0°♐	
	2659 Jan 01 04:36	0°♑	
morning set	2659 Jan 01 17:41	0°♑41'07	
desc. node	2659 Jan 05 05:47	5°♑05'30	
	2659 Jan 25 01:01	0°♒	
superior conj	2659 Feb 12 10:32	23°♒07'18	-1°15'29
minimum elong	2659 Feb 12 00:15	22°♒35'00	1°15'13
max. Earth dist.	2659 Feb 15 05:39	26°♒38'02	1.71324 AU
	2659 Feb 17 22:00	0°♓	
	2659 Mar 13 21:00	0°♈	
evening rise	2659 Mar 25 01:16	13°♈56'23	
	2659 Apr 06 23:34	0°♉	
asc. node	2659 Apr 28 09:09	26°♉25'11	
	2659 May 01 07:06	0°♊	
	2659 May 25 20:50	0°♋	
	2659 Jun 19 18:22	0°♌	
	2659 Jul 15 03:04	0°♍	
	2659 Aug 10 06:09	0°♎	
desc. node	2659 Aug 17 22:22	8°♎33'37	
	2659 Sep 06 21:37	0°♏	
evening max el	2659 Sep 19 13:52	12°♏43'35	46°15'19
	2659 Oct 09 04:23	0°♐	
greatest brilliancy	2659 Oct 29 16:42	11°♐56'02	-4.8m
retrograde	2659 Nov 08 01:14	13°♐32'47	
evening set	2659 Nov 22 20:51	9°♐15'30	
inferior conj	2659 Nov 28 15:27	5°♐52'41	-2°39'15
minimum elong	2659 Nov 28 21:21	5°♐43'43	2°37'26
min. Earth dist.	2659 Nov 29 03:38	5°♐34'09	0.26720 AU
morning rise	2659 Dec 04 21:25	2°♐14'23	
asc. node	2659 Dec 09 01:40	0°♐16'05	
	2659 Dec 09 18:00	30°℞♏	
direct	2659 Dec 19 06:28	28°♏08'49	
	2659 Dec 29 02:33	0°♐	
greatest brilliancy	2659 Dec 29 21:17	0°♐17'31	-4.9m
	2660 Feb 06 11:37	0°♑	
morning max el	2660 Feb 07 22:56	1°♑29'00	46°57'00
	2660 Mar 05 09:56	0°♒	
desc. node	2660 Mar 29 15:24	27°♒53'14	
	2660 Mar 31 10:40	0°♓	
	2660 Apr 25 18:25	0°♈	
	2660 May 20 18:40	0°♉	
	2660 Jun 14 15:00	0°♊	
	2660 Jul 09 08:02	0°♋	
asc. node	2660 Jul 20 18:32	13°♋56'56	
	2660 Aug 02 21:11	0°♌	
morning set	2660 Aug 08 02:44	6°♌25'17	
	2660 Aug 27 06:01	0°♍	
max. Earth dist.	2660 Sep 10 08:04	17°♍26'05	1.72758 AU
superior conj	2660 Sep 13 14:04	21°♍27'51	1°24'56
minimum elong	2660 Sep 13 13:33	21°♍26'16	1°24'56
	2660 Sep 20 11:06	0°♎	
	2660 Oct 14 13:48	0°♏	
evening rise	2660 Oct 21 01:54	8°♏06'14	
	2660 Nov 07 15:26	0°♐	
desc. node	2660 Nov 09 08:15	2°♐07'14	
	2660 Dec 01 16:53	0°♑	
	2660 Dec 25 19:05	0°♒	
	2661 Jan 19 00:04	0°♓	
	2661 Feb 12 12:11	0°♈	
asc. node	2661 Mar 02 11:15	21°♈33'01	
	2661 Mar 09 15:22	0°♉	
	2661 Apr 05 01:08	0°♊	
evening max el	2661 Apr 26 02:47	21°♊55'20	45°48'19
	2661 May 04 16:39	0°♋	
greatest brilliancy	2661 Jun 03 01:57	20°♋13'30	-4.7m
retrograde	2661 Jun 14 02:27	22°♋24'51	
desc. node	2661 Jun 22 00:47	21°♋10'07	

evening set	2661 Jun 29 06:15	17°♋59'08	
inferior conj	2661 Jul 05 14:22	14°♋10'22	-3°08'05
minimum elong	2661 Jul 05 07:50	14°♋20'37	3°06'17
min. Earth dist.	2661 Jul 05 09:52	14°♋17'27	0.28969 AU
morning rise	2661 Jul 11 09:33	10°♋39'41	
direct	2661 Jul 27 05:32	5°♋54'05	
greatest brilliancy	2661 Aug 06 11:38	7°♋47'16	-4.7m
	2661 Sep 07 20:21	0°♌	
morning max el	2661 Sep 14 03:34	5°♌55'14	45°54'33
	2661 Oct 07 09:42	0°♍	
asc. node	2661 Oct 13 04:12	6°♍22'33	
	2661 Nov 02 18:48	0°♎	
	2661 Nov 27 20:29	0°♏	
	2661 Dec 22 06:52	0°♐	
	2662 Jan 15 10:09	0°♑	
desc. node	2662 Feb 01 17:34	21°♑36'35	
	2662 Feb 08 10:38	0°♒	
	2662 Mar 04 10:41	0°♓	
morning set	2662 Mar 19 16:40	19°♓02'12	
	2662 Mar 28 11:50	0°♈	
	2662 Apr 21 15:16	0°♉	
superior conj	2662 Apr 27 18:27	7°♉35'42	-1°00'37
minimum elong	2662 Apr 28 04:38	8°♉07'13	1°00'15
max. Earth dist.	2662 May 01 03:56	11°♉47'46	1.72782 AU
	2662 May 15 21:38	0°♊	
asc. node	2662 May 25 20:59	12°♊17'08	
evening rise	2662 Jun 04 15:44	24°♊18'44	
	2662 Jun 09 06:51	0°♋	
	2662 Jul 03 18:39	0°♌	
	2662 Jul 28 09:19	0°♍	
	2662 Aug 22 04:16	0°♎	
desc. node	2662 Sep 14 10:24	27°♎50'46	
	2662 Sep 16 05:52	0°♏	
	2662 Oct 11 17:51	0°♐	
	2662 Nov 07 00:46	0°♑	
evening max el	2662 Dec 01 13:16	26°♑13'03	47°12'26
	2662 Dec 05 08:14	0°♒	
asc. node	2663 Jan 05 13:32	25°♒07'08	
greatest brilliancy	2663 Jan 11 04:52	27°♒41'27	-4.9m
retrograde	2663 Jan 21 08:38	29°♒39'59	
evening set	2663 Feb 06 17:32	24°♒24'20	
min. Earth dist.	2663 Feb 10 06:31	22°♒15'49	0.27001 AU
inferior conj	2663 Feb 11 01:48	21°♒45'55	7°47'13
minimum elong	2663 Feb 10 16:37	22°♒00'10	7°45'47
morning rise	2663 Feb 14 15:56	19°♒34'31	
direct	2663 Mar 03 13:18	14°♒01'56	
greatest brilliancy	2663 Mar 12 15:55	15°♒35'31	-4.9m
	2663 Apr 05 03:02	0°♓	
morning max el	2663 Apr 22 06:06	15°♓34'50	46°22'12
desc. node	2663 Apr 27 03:09	20°♓26'20	
	2663 May 06 09:11	0°♈	
	2663 Jun 02 17:37	0°♉	
	2663 Jun 28 20:16	0°♊	
	2663 Jul 24 07:36	0°♋	
asc. node	2663 Aug 18 06:23	29°♋55'50	
	2663 Aug 18 07:45	0°♌	
	2663 Sep 11 22:19	0°♍	
	2663 Oct 06 05:05	0°♎	
morning set	2663 Oct 17 06:50	13°♎46'39	
	2663 Oct 30 06:33	0°♏	
max. Earth dist.	2663 Nov 23 01:55	29°♏49'57	1.71404 AU
	2663 Nov 23 05:07	0°♐	
superior conj	2663 Nov 24 23:54	2°♐14'19	0°30'09
minimum elong	2663 Nov 25 07:02	2°♐36'42	0°29'49
desc. node	2663 Dec 07 20:01	18°♐21'36	
	2663 Dec 17 02:23	0°♑	
evening rise	2664 Jan 04 21:53	23°♑38'27	
	2664 Jan 09 23:24	0°♒	
	2664 Feb 02 21:27	0°♓	
	2664 Feb 26 22:38	0°♈	
	2664 Mar 22 05:59	0°♉	
asc. node	2664 Mar 29 23:16	9°♉26'07	
	2664 Apr 15 23:18	0°♊	
	2664 May 11 08:03	0°♋	
	2664 Jun 06 19:13	0°♌	
evening max el	2664 Jul 05 15:13	29°♌54'03	45°26'42
	2664 Jul 05 17:43	0°♍	
desc. node	2664 Jul 19 12:37	12°♍21'23	
greatest brilliancy	2664 Aug 13 11:33	27°♍49'22	-4.7m
retrograde	2664 Aug 23 07:02	29°♍33'42	
evening set	2664 Sep 10 07:39	23°♍31'07	
inferior conj	2664 Sep 13 14:25	21°♍30'48	-8°40'36
minimum elong	2664 Sep 13 13:37	21°♍32'02	8°40'35
min. Earth dist.	2664 Sep 14 04:09	21°♍09'31	0.28594 AU
morning rise	2664 Sep 16 19:24	19°♍32'37	
direct	2664 Oct 05 00:31	13°♍17'47	
greatest brilliancy	2664 Oct 16 02:17	15°♍32'48	-4.8m
	2664 Nov 07 11:37	0°♎	
asc. node	2664 Nov 09 15:50	1°♎51'49	
morning max el	2664 Nov 24 07:39	15°♎42'26	46°37'37
	2664 Dec 07 22:01	0°♏	
	2665 Jan 03 07:50	0°♐	
	2665 Jan 28 11:14	0°♑	
	2665 Feb 22 02:19	0°♒	
desc. node	2665 Mar 01 05:34	8°♒44'52	
	2665 Mar 18 12:26	0°♓	
	2665 Apr 11 21:04	0°♈	
	2665 May 06 06:03	0°♉	
morning set	2665 May 29 23:25	29°♉09'18	
	2665 May 30 15:56	0°♊	
asc. node	2665 Jun 22 08:44	27°♊52'37	
	2665 Jun 24 02:14	0°♋	
max. Earth dist.	2665 Jul 05 02:44	13°♋32'28	1.73569 AU
superior conj	2665 Jul 05 20:15	14°♋26'16	0°31'23
minimum elong	2665 Jul 05 14:11	14°♋07'38	0°31'06
	2665 Jul 18 12:01	0°♌	
evening rise	2665 Aug 10 17:46	28°♌36'27	
	2665 Aug 11 20:54	0°♍	
	2665 Sep 05 05:25	0°♎	
	2665 Sep 29 14:37	0°♏	
desc. node	2665 Oct 11 22:24	15°♏08'06	
	2665 Oct 24 01:30	0°♐	
	2665 Nov 17 15:08	0°♑	
	2665 Dec 12 10:09	0°♒	
	2666 Jan 06 18:12	0°♓	
asc. node	2666 Feb 02 01:24	29°♓31'29	
	2666 Feb 02 12:04	0°♈	
evening max el	2666 Feb 11 14:01	9°♈27'53	46°54'55
	2666 Mar 06 05:00	0°♉	
greatest brilliancy	2666 Mar 23 12:21	10°♉17'29	-4.8m
retrograde	2666 Apr 03 02:34	12°♉23'39	
evening set	2666 Apr 19 20:16	6°♉54'14	
inferior conj	2666 Apr 24 06:15	4°♉10'51	6°30'43
minimum elong	2666 Apr 24 16:15	3°♉55'08	6°28'42
min. Earth dist.	2666 Apr 24 03:52	4°♉14'35	0.28315 AU
morning rise	2666 Apr 29 12:34	0°♉58'48	
	2666 May 01 07:23	30°℞♈	
direct	2666 May 15 10:04	26°♈04'18	
desc. node	2666 May 24 14:52	27°♈38'07	
greatest brilliancy	2666 May 25 03:48	27°♈48'54	-4.8m
	2666 May 30 09:45	0°♉	

morning max el	2666 Jul 03 08:32	26°♉08'44	45°46'03
	2666 Jul 07 08:04	0°♊	
	2666 Aug 04 22:51	0°♋	
	2666 Aug 31 10:35	0°♌	
asc. node	2666 Sep 14 18:23	16°♌47'54	
	2666 Sep 25 20:01	0°♍	
	2666 Oct 20 12:39	0°♎	
	2666 Nov 13 18:36	0°♏	
	2666 Dec 07 18:34	0°♐	
morning set	2666 Dec 30 04:00	28°♐07'36	
	2666 Dec 31 15:45	0°♑	
desc. node	2667 Jan 04 07:48	4°♑36'47	
	2667 Jan 24 12:08	0°♒	
superior conj	2667 Feb 09 20:35	20°♒33'18	-1°13'27
minimum elong	2667 Feb 09 09:46	19°♒59'19	1°13'10
max. Earth dist.	2667 Feb 12 15:17	24°♒02'47	1.71289 AU
	2667 Feb 17 09:05	0°♓	
	2667 Mar 13 08:03	0°♈	
evening rise	2667 Mar 22 13:05	11°♈29'25	
	2667 Apr 06 10:37	0°♉	
asc. node	2667 Apr 27 11:09	25°♉57'07	
	2667 Apr 30 18:16	0°♊	
	2667 May 25 08:17	0°♋	
	2667 Jun 19 06:23	0°♌	
	2667 Jul 14 16:04	0°♍	
	2667 Aug 09 21:07	0°♎	
desc. node	2667 Aug 17 00:33	7°♎55'56	
	2667 Sep 06 17:15	0°♏	
evening max el	2667 Sep 17 03:38	10°♏24'01	46°12'52
	2667 Oct 09 21:42	0°♐	
greatest brilliancy	2667 Oct 27 06:01	9°♐31'43	-4.8m
retrograde	2667 Nov 05 12:55	11°♐06'56	
evening set	2667 Nov 20 11:41	6°♐46'51	
inferior conj	2667 Nov 26 04:06	3°♐26'47	-3°01'56
minimum elong	2667 Nov 26 10:44	3°♐16'40	2°59'54
min. Earth dist.	2667 Nov 26 17:43	3°♐06'01	0.26767 AU
morning rise	2667 Dec 02 09:17	29°♏48'56	
	2667 Dec 02 01:01	30°℞♏	
asc. node	2667 Dec 08 03:38	27°♏14'06	
direct	2667 Dec 16 19:39	25°♏42'06	
greatest brilliancy	2667 Dec 27 11:56	27°♏51'44	-4.9m
	2668 Jan 01 04:29	0°♐	
morning max el	2668 Feb 05 11:35	29°♐01'02	46°57'16
	2668 Feb 06 10:46	0°♑	
	2668 Mar 05 02:35	0°♒	
desc. node	2668 Mar 28 17:29	27°♒17'24	
	2668 Mar 31 00:49	0°♓	
	2668 Apr 25 07:13	0°♈	
	2668 May 20 06:39	0°♉	
	2668 Jun 14 02:26	0°♊	
	2668 Jul 08 19:08	0°♋	
asc. node	2668 Jul 19 20:37	13°♋29'39	
	2668 Aug 02 08:06	0°♌	
morning set	2668 Aug 05 20:31	4°♌19'02	
	2668 Aug 26 16:52	0°♍	
max. Earth dist.	2668 Sep 08 00:04	15°♍13'20	1.72804 AU
superior conj	2668 Sep 11 07:33	19°♍19'36	1°24'46
minimum elong	2668 Sep 11 06:19	19°♍15'47	1°24'46
	2668 Sep 19 21:59	0°♎	
	2668 Oct 14 00:47	0°♏	
evening rise	2668 Oct 18 16:37	5°♏48'10	
	2668 Nov 07 02:37	0°♐	
desc. node	2668 Nov 08 10:13	1°♐38'29	
	2668 Dec 01 04:20	0°♑	
	2668 Dec 25 06:51	0°♒	
	2669 Jan 18 12:15	0°♓	
	2669 Feb 12 01:02	0°♈	
asc. node	2669 Mar 01 13:20	20°♈58'45	
	2669 Mar 09 05:27	0°♉	
	2669 Apr 04 18:05	0°♊	
evening max el	2669 Apr 23 17:26	19°♊39'48	45°50'14
	2669 May 04 19:40	0°♋	
greatest brilliancy	2669 May 31 18:50	18°♋04'38	-4.7m
retrograde	2669 Jun 11 18:30	20°♋15'51	
desc. node	2669 Jun 21 02:47	18°♋32'12	
evening set	2669 Jun 26 21:58	15°♋51'00	
inferior conj	2669 Jul 03 06:52	12°♋01'22	-2°49'33
minimum elong	2669 Jul 03 00:54	12°♋10'44	2°47'54
min. Earth dist.	2669 Jul 03 02:47	12°♋07'47	0.28955 AU
morning rise	2669 Jul 09 03:54	8°♋27'53	
direct	2669 Jul 24 21:18	3°♋45'08	
greatest brilliancy	2669 Aug 04 04:18	5°♋38'40	-4.7m
	2669 Sep 07 20:59	0°♌	
morning max el	2669 Sep 11 18:21	3°♌41'19	45°53'32
	2669 Oct 07 02:02	0°♍	
asc. node	2669 Oct 12 06:07	5°♍44'17	
	2669 Nov 02 08:33	0°♎	
	2669 Nov 27 09:05	0°♏	
	2669 Dec 21 18:53	0°♐	
	2670 Jan 14 21:49	0°♑	
desc. node	2670 Jan 31 19:43	21°♑07'24	
	2670 Feb 07 22:06	0°♒	
	2670 Mar 03 21:59	0°♓	
morning set	2670 Mar 17 04:40	16°♓34'58	
	2670 Mar 27 22:59	0°♈	
	2670 Apr 21 02:19	0°♉	
superior conj	2670 Apr 25 09:13	5°♉18'43	-1°03'04
minimum elong	2670 Apr 25 19:27	5°♉50'24	1°02'43
max. Earth dist.	2670 Apr 28 19:05	9°♉32'06	1.72729 AU
	2670 May 15 08:38	0°♊	
asc. node	2670 May 24 22:56	11°♊49'20	
evening rise	2670 Jun 02 08:46	22°♊09'51	
	2670 Jun 08 17:53	0°♋	
	2670 Jul 03 05:49	0°♌	
	2670 Jul 27 20:48	0°♍	
	2670 Aug 21 16:19	0°♎	
desc. node	2670 Sep 13 12:28	27°♎18'38	
	2670 Sep 15 18:50	0°♏	
	2670 Oct 11 08:19	0°♐	
	2670 Nov 06 18:06	0°♑	
evening max el	2670 Nov 29 02:27	23°♑46'51	47°11'32
	2670 Dec 05 09:33	0°♒	
asc. node	2671 Jan 04 15:36	23°♒26'59	
greatest brilliancy	2671 Jan 08 18:32	25°♒14'31	-4.9m
retrograde	2671 Jan 18 22:00	27°♒13'12	
evening set	2671 Feb 04 02:39	22°♒03'33	
min. Earth dist.	2671 Feb 07 19:43	19°♒49'31	0.26955 AU
inferior conj	2671 Feb 08 14:55	19°♒19'50	7°35'20
minimum elong	2671 Feb 08 05:16	19°♒34'45	7°33'42
morning rise	2671 Feb 12 08:08	17°♒04'13	
direct	2671 Mar 01 01:41	11°♒36'14	
greatest brilliancy	2671 Mar 10 05:26	13°♒10'59	-4.9m
	2671 Apr 05 12:35	0°♓	
morning max el	2671 Apr 19 20:07	13°♓14'07	46°23'48
desc. node	2671 Apr 26 05:09	19°♓37'18	
	2671 May 06 03:56	0°♈	
	2671 Jun 02 08:28	0°♉	
	2671 Jun 28 09:21	0°♊	
	2671 Jul 23 19:42	0°♋	
asc. node	2671 Aug 17 08:30	29°♋27'26	
	2671 Aug 17 19:16	0°♌	

	2671 Sep 11 09:30	0°♍	
	2671 Oct 05 16:09	0°♎	
morning set	2671 Oct 14 22:08	11°♎30'18	
	2671 Oct 29 17:38	0°♏	
max. Earth dist.	2671 Nov 20 13:52	27°♏21'58	1.71439 AU
superior conj	2671 Nov 22 12:09	29°♏47'10	0°33'39
minimum elong	2671 Nov 22 19:56	0°♐11'36	0°33'18
	2671 Nov 22 16:14	0°♐	
desc. node	2671 Dec 06 22:04	17°♐53'01	
	2671 Dec 16 13:34	0°♑	
evening rise	2672 Jan 02 08:35	21°♑06'04	
	2672 Jan 09 10:38	0°♒	
	2672 Feb 02 08:46	0°♓	
	2672 Feb 26 10:08	0°♈	
	2672 Mar 21 17:47	0°♉	
asc. node	2672 Mar 29 01:14	8°♉55'46	
	2672 Apr 15 11:40	0°♊	
	2672 May 10 21:31	0°♋	
	2672 Jun 06 11:09	0°♌	
evening max el	2672 Jul 03 07:12	27°♌43'13	45°26'20
	2672 Jul 05 16:58	0°♍	
desc. node	2672 Jul 18 14:48	11°♍20'13	
greatest brilliancy	2672 Aug 11 00:20	25°♍34'32	-4.7m
retrograde	2672 Aug 20 22:28	27°♍20'43	
evening set	2672 Sep 07 21:26	21°♍19'46	
inferior conj	2672 Sep 11 05:45	19°♍16'56	-8°38'56
minimum elong	2672 Sep 11 04:09	19°♍19'25	8°38'55
min. Earth dist.	2672 Sep 11 18:01	18°♍57'56	0.28640 AU
morning rise	2672 Sep 14 10:43	17°♍18'47	
direct	2672 Oct 02 16:58	11°♍03'32	
greatest brilliancy	2672 Oct 13 16:50	13°♍17'04	-4.8m
	2672 Nov 07 18:43	0°♎	
asc. node	2672 Nov 08 17:52	0°♎50'56	
morning max el	2672 Nov 21 23:27	13°♎25'48	46°36'02
	2672 Dec 07 16:11	0°♏	
	2673 Jan 02 22:37	0°♐	
	2673 Jan 28 00:30	0°♑	
	2673 Feb 21 14:43	0°♒	
desc. node	2673 Feb 28 07:34	8°♒13'30	
	2673 Mar 18 00:16	0°♓	
	2673 Apr 11 08:30	0°♈	
	2673 May 05 17:12	0°♉	
morning set	2673 May 27 16:40	27°♉01'14	
	2673 May 30 02:53	0°♊	
asc. node	2673 Jun 21 10:51	27°♊25'49	
	2673 Jun 23 13:04	0°♋	
max. Earth dist.	2673 Jul 03 01:49	11°♋42'36	1.73570 AU
superior conj	2673 Jul 03 14:21	12°♋21'06	0°28'25
minimum elong	2673 Jul 03 08:46	12°♋03'59	0°28'09
	2673 Jul 17 22:50	0°♌	
evening rise	2673 Aug 08 12:21	26°♌32'16	
	2673 Aug 11 07:50	0°♍	
	2673 Sep 04 16:33	0°♎	
	2673 Sep 29 02:04	0°♏	
desc. node	2673 Oct 11 00:20	14°♏38'16	
	2673 Oct 23 13:26	0°♐	
	2673 Nov 17 03:42	0°♑	
	2673 Dec 11 23:44	0°♒	
	2674 Jan 06 09:34	0°♓	
asc. node	2674 Feb 01 03:32	28°♓45'28	
	2674 Feb 02 07:38	0°♈	
evening max el	2674 Feb 09 06:00	7°♈11'08	46°56'51
	2674 Mar 06 21:58	0°♉	
greatest brilliancy	2674 Mar 21 04:30	8°♉02'23	-4.8m
retrograde	2674 Mar 31 18:31	10°♉08'07	
evening set	2674 Apr 17 14:46	4°♉34'47	
inferior conj	2674 Apr 21 21:39	1°♉55'42	6°44'45
minimum elong	2674 Apr 22 07:34	1°♉40'07	6°42'51
min. Earth dist.	2674 Apr 21 18:36	2°♉00'31	0.28280 AU
	2674 Apr 25 00:08	30°℞♈	
morning rise	2674 Apr 27 00:46	28°♈48'11	
direct	2674 May 13 01:31	23°♈50'01	
greatest brilliancy	2674 May 22 17:14	25°♈33'08	-4.8m
desc. node	2674 May 23 16:53	25°♈54'09	
	2674 Jun 01 04:54	0°♉	
morning max el	2674 Jun 30 23:55	23°♉56'44	45°46'31
	2674 Jul 07 04:52	0°♊	
	2674 Aug 04 14:05	0°♋	
	2674 Aug 30 23:42	0°♌	
asc. node	2674 Sep 13 20:18	16°♌16'34	
	2674 Sep 25 08:08	0°♍	
	2674 Oct 20 00:14	0°♎	
	2674 Nov 13 05:55	0°♏	
greatest brilliancy	2674 Dec 04 14:30	26°♏41'49	-3.9m
	2674 Dec 07 05:44	0°♐	
morning set	2674 Dec 27 14:24	25°♐34'30	
	2674 Dec 31 02:52	0°♑	
desc. node	2675 Jan 03 09:54	4°♑08'29	
	2675 Jan 23 23:13	0°♒	
superior conj	2675 Feb 07 06:38	17°♒59'19	-1°11'16
minimum elong	2675 Feb 06 19:23	17°♒23'59	1°10'57
max. Earth dist.	2675 Feb 09 22:52	21°♒21'04	1.71257 AU
	2675 Feb 16 20:09	0°♓	
	2675 Mar 12 19:05	0°♈	
evening rise	2675 Mar 20 00:46	9°♈01'49	
	2675 Apr 05 21:39	0°♉	
asc. node	2675 Apr 26 13:09	25°♉29'05	
	2675 Apr 30 05:25	0°♊	
	2675 May 24 19:42	0°♋	
	2675 Jun 18 18:22	0°♌	
	2675 Jul 14 05:08	0°♍	
	2675 Aug 09 12:18	0°♎	
desc. node	2675 Aug 16 02:32	7°♎17'19	
	2675 Sep 06 13:33	0°♏	
evening max el	2675 Sep 14 16:29	8°♏02'15	46°10'24
	2675 Oct 10 21:04	0°♐	
greatest brilliancy	2675 Oct 24 19:39	7°♐07'52	-4.8m
retrograde	2675 Nov 03 00:30	8°♐41'34	
evening set	2675 Nov 18 02:40	4°♐18'12	
inferior conj	2675 Nov 23 16:47	1°♐01'19	-3°24'03
minimum elong	2675 Nov 24 00:07	0°♐50'08	3°21'53
min. Earth dist.	2675 Nov 24 07:59	0°♐38'07	0.26815 AU
	2675 Nov 25 09:04	30°℞♏	
morning rise	2675 Nov 29 20:57	27°♏24'22	
asc. node	2675 Dec 07 05:43	24°♏17'43	
direct	2675 Dec 14 08:24	23°♏15'41	
greatest brilliancy	2675 Dec 25 02:59	25°♏26'57	-4.9m
	2676 Jan 03 00:11	0°♐	
morning max el	2676 Feb 02 23:53	26°♐32'33	46°57'31
	2676 Feb 06 08:50	0°♑	
	2676 Mar 04 18:47	0°♒	
desc. node	2676 Mar 27 19:24	26°♒41'51	
	2676 Mar 30 14:40	0°♓	
	2676 Apr 24 19:48	0°♈	
	2676 May 19 18:26	0°♉	
	2676 Jun 13 13:41	0°♊	
	2676 Jul 08 06:04	0°♋	
asc. node	2676 Jul 18 22:43	13°♋03'02	
	2676 Aug 01 18:51	0°♌	
morning set	2676 Aug 03 14:23	2°♌13'38	
	2676 Aug 26 03:34	0°♍	

max. Earth dist.	2676 Sep 05 18:08	13°♍07'25	1.72854 AU
superior conj	2676 Sep 09 01:04	17°♍11'57	1°24'29
minimum elong	2676 Sep 08 23:09	17°♍06'01	1°24'29
	2676 Sep 19 08:44	0°♎	
	2676 Oct 13 11:40	0°♏	
evening rise	2676 Oct 16 07:21	3°♏30'35	
	2676 Nov 06 13:42	0°♐	
desc. node	2676 Nov 07 12:18	1°♐10'24	
	2676 Nov 30 15:40	0°♑	
	2676 Dec 24 18:28	0°♒	
	2677 Jan 18 00:16	0°♓	
	2677 Feb 11 13:43	0°♈	
asc. node	2677 Feb 28 15:16	20°♈24'30	
	2677 Mar 08 19:28	0°♉	
	2677 Apr 04 11:10	0°♊	
evening max el	2677 Apr 21 07:58	17°♊24'34	45°52'12
	2677 May 05 00:11	0°♋	
greatest brilliancy	2677 May 29 11:15	15°♋55'41	-4.7m
retrograde	2677 Jun 09 10:58	18°♋07'33	
desc. node	2677 Jun 20 04:56	15°♋50'24	
evening set	2677 Jun 24 13:47	13°♋43'05	
inferior conj	2677 Jun 30 23:19	9°♋52'56	-2°30'47
minimum elong	2677 Jun 30 17:57	10°♋01'21	2°29'15
min. Earth dist.	2677 Jun 30 19:30	9°♋58'55	0.28942 AU
morning rise	2677 Jul 06 22:08	6°♋17'01	
direct	2677 Jul 22 12:59	1°♋36'41	
greatest brilliancy	2677 Aug 01 20:55	3°♋30'55	-4.7m
	2677 Sep 07 20:09	0°♌	
morning max el	2677 Sep 09 09:43	1°♌29'49	45°52'35
	2677 Oct 06 17:48	0°♍	
asc. node	2677 Oct 11 08:11	5°♍07'35	
	2677 Nov 01 21:57	0°♎	
	2677 Nov 26 21:26	0°♏	
	2677 Dec 21 06:41	0°♐	
	2678 Jan 14 09:18	0°♑	
desc. node	2678 Jan 30 21:47	20°♑38'35	
	2678 Feb 07 09:20	0°♒	
	2678 Mar 03 08:59	0°♓	
morning set	2678 Mar 14 16:21	14°♓07'29	
	2678 Mar 27 09:50	0°♈	
	2678 Apr 20 13:05	0°♉	
superior conj	2678 Apr 22 23:49	3°♉02'02	-1°05'26
minimum elong	2678 Apr 23 10:03	3°♉33'43	1°05'06
max. Earth dist.	2678 Apr 26 09:39	7°♉15'23	1.72679 AU
	2678 May 14 19:21	0°♊	
asc. node	2678 May 24 01:05	11°♊23'02	
evening rise	2678 May 31 01:48	20°♊01'46	
	2678 Jun 08 04:38	0°♋	
	2678 Jul 02 16:43	0°♌	
	2678 Jul 27 08:01	0°♍	
	2678 Aug 21 04:05	0°♎	
desc. node	2678 Sep 12 14:26	26°♎47'07	
	2678 Sep 15 07:32	0°♏	
	2678 Oct 10 22:37	0°♐	
	2678 Nov 06 11:31	0°♑	
evening max el	2678 Nov 26 16:21	21°♑23'08	47°10'26
	2678 Dec 05 12:03	0°♒	
asc. node	2679 Jan 03 17:43	21°♒43'02	
greatest brilliancy	2679 Jan 06 07:29	22°♒46'42	-4.9m
retrograde	2679 Jan 16 11:37	24°♒46'00	
evening set	2679 Feb 01 11:30	19°♒42'17	
min. Earth dist.	2679 Feb 05 08:22	17°♒23'06	0.26908 AU
inferior conj	2679 Feb 06 03:43	16°♒53'18	7°22'28
minimum elong	2679 Feb 05 17:42	17°♒08'43	7°20'38
morning rise	2679 Feb 10 00:10	14°♒33'22	
direct	2679 Feb 26 14:22	9°♒10'17	
greatest brilliancy	2679 Mar 07 18:11	10°♒45'39	-4.9m
	2679 Apr 05 19:18	0°♓	
morning max el	2679 Apr 17 10:24	10°♓54'48	46°25'26
desc. node	2679 Apr 25 07:16	18°♓50'10	
	2679 May 05 21:54	0°♈	
	2679 Jun 01 22:48	0°♉	
	2679 Jun 27 21:59	0°♊	
	2679 Jul 23 07:24	0°♋	
asc. node	2679 Aug 16 10:27	28°♋59'31	
	2679 Aug 17 06:26	0°♌	
	2679 Sep 10 20:22	0°♍	
	2679 Oct 05 02:53	0°♎	
morning set	2679 Oct 12 13:48	9°♎16'18	
	2679 Oct 29 04:21	0°♏	
max. Earth dist.	2679 Nov 18 01:45	24°♏54'54	1.71477 AU
superior conj	2679 Nov 20 00:40	27°♏22'04	0°37'04
minimum elong	2679 Nov 20 09:02	27°♏48'17	0°36'42
	2679 Nov 22 03:01	0°♐	
desc. node	2679 Dec 06 00:13	17°♐25'47	
	2679 Dec 16 00:26	0°♑	
evening rise	2679 Dec 30 19:09	18°♑34'10	
	2680 Jan 08 21:37	0°♒	
	2680 Feb 01 19:52	0°♓	
	2680 Feb 25 21:24	0°♈	
	2680 Mar 21 05:21	0°♉	
asc. node	2680 Mar 28 03:17	8°♉26'23	
	2680 Apr 14 23:48	0°♊	
	2680 May 10 10:49	0°♋	
	2680 Jun 06 03:02	0°♌	
evening max el	2680 Jun 30 23:16	25°♌33'28	45°25'59
	2680 Jul 05 16:56	0°♍	
desc. node	2680 Jul 17 16:48	10°♍18'05	
greatest brilliancy	2680 Aug 08 13:50	23°♍21'32	-4.7m
retrograde	2680 Aug 18 13:37	25°♍08'41	
evening set	2680 Sep 05 10:58	19°♍10'12	
inferior conj	2680 Sep 08 21:07	17°♍04'18	-8°36'37
minimum elong	2680 Sep 08 18:43	17°♍08'02	8°36'32
min. Earth dist.	2680 Sep 09 08:05	16°♍47'16	0.28681 AU
morning rise	2680 Sep 12 02:20	15°♍05'35	
direct	2680 Sep 30 09:20	8°♍50'40	
greatest brilliancy	2680 Oct 11 07:11	11°♍02'15	-4.8m
asc. node	2680 Nov 07 19:57	29°♍52'41	
	2680 Nov 07 23:12	0°♎	
morning max el	2680 Nov 19 14:20	11°♎08'05	46°34'31
	2680 Dec 07 09:31	0°♏	
	2681 Jan 02 12:52	0°♐	
	2681 Jan 27 13:21	0°♑	
	2681 Feb 21 02:48	0°♒	
desc. node	2681 Feb 27 09:32	7°♒42'53	
	2681 Mar 17 11:50	0°♓	
	2681 Apr 10 19:42	0°♈	
	2681 May 05 04:06	0°♉	
morning set	2681 May 25 09:36	24°♉52'55	
	2681 May 29 13:34	0°♊	
asc. node	2681 Jun 20 12:53	26°♊59'37	
	2681 Jun 22 23:37	0°♋	
superior conj	2681 Jul 01 08:16	10°♋16'14	0°25'24
minimum elong	2681 Jul 01 03:13	10°♋00'44	0°25'09
max. Earth dist.	2681 Jul 01 00:00	9°♋50'52	1.73566 AU
	2681 Jul 17 09:24	0°♌	
evening rise	2681 Aug 06 06:55	24°♌28'51	
	2681 Aug 10 18:31	0°♍	
	2681 Sep 04 03:27	0°♎	
	2681 Sep 28 13:19	0°♏	

desc. node	2681 Oct 10 02:27	14°♏09'43	
	2681 Oct 23 01:07	0°♐	
	2681 Nov 16 16:02	0°♑	
	2681 Dec 11 13:05	0°♒	
	2682 Jan 06 00:47	0°♓	
asc. node	2682 Jan 31 05:26	27°♓58'58	
	2682 Feb 02 03:30	0°♈	
evening max el	2682 Feb 06 20:59	4°♈52'24	46°58'31
	2682 Mar 07 20:40	0°♉	
greatest brilliancy	2682 Mar 18 21:06	5°♉47'56	-4.8m
retrograde	2682 Mar 29 09:54	7°♉52'28	
evening set	2682 Apr 15 09:10	2°♉15'18	
	2682 Apr 19 00:39	30°℞♈	
inferior conj	2682 Apr 19 12:58	29°♈40'35	6°58'20
minimum elong	2682 Apr 19 22:44	29°♈25'13	6°56'33
min. Earth dist.	2682 Apr 19 09:32	29°♈46'00	0.28246 AU
morning rise	2682 Apr 24 12:40	26°♈37'43	
direct	2682 May 10 16:30	21°♈35'43	
greatest brilliancy	2682 May 20 07:04	23°♈17'43	-4.8m
desc. node	2682 May 22 19:01	24°♈14'07	
	2682 Jun 02 10:23	0°♉	
morning max el	2682 Jun 28 14:20	21°♉42'33	45°47'08
	2682 Jul 07 00:49	0°♊	
	2682 Aug 04 04:53	0°♋	
	2682 Aug 30 12:31	0°♌	
asc. node	2682 Sep 12 22:22	15°♌46'26	
	2682 Sep 24 19:59	0°♍	
	2682 Oct 19 11:37	0°♎	
	2682 Nov 12 17:02	0°♏	
	2682 Dec 06 16:43	0°♐	
greatest brilliancy	2682 Dec 07 17:55	1°♐18'59	-3.9m
morning set	2682 Dec 25 01:16	23°♐03'25	
	2682 Dec 30 13:46	0°♑	
desc. node	2683 Jan 02 11:56	3°♑40'37	
	2683 Jan 23 10:05	0°♒	
superior conj	2683 Feb 04 17:04	15°♒27'16	-1°08'57
minimum elong	2683 Feb 04 05:28	14°♒50'50	1°08'36
max. Earth dist.	2683 Feb 07 04:42	18°♒34'36	1.71226 AU
	2683 Feb 16 06:59	0°♓	
	2683 Mar 12 05:55	0°♈	
evening rise	2683 Mar 17 12:33	6°♈35'06	
	2683 Apr 05 08:33	0°♉	
asc. node	2683 Apr 25 15:17	25°♉01'47	
	2683 Apr 29 16:27	0°♊	
	2683 May 24 07:04	0°♋	
	2683 Jun 18 06:19	0°♌	
	2683 Jul 13 18:11	0°♍	
	2683 Aug 09 03:33	0°♎	
desc. node	2683 Aug 15 04:32	6°♎38'43	
	2683 Sep 06 10:22	0°♏	
evening max el	2683 Sep 12 04:36	5°♏39'14	46°08'03
	2683 Oct 12 05:05	0°♐	
greatest brilliancy	2683 Oct 22 09:11	4°♐44'29	-4.8m
retrograde	2683 Oct 31 12:25	6°♐17'07	
evening set	2683 Nov 15 17:49	1°♐49'50	
	2683 Nov 18 22:22	30°℞♏	
inferior conj	2683 Nov 21 05:34	28°♏36'28	-3°45'45
minimum elong	2683 Nov 21 13:31	28°♏24'20	3°43'27
min. Earth dist.	2683 Nov 21 22:19	28°♏10'54	0.26867 AU
morning rise	2683 Nov 27 08:31	25°♏00'55	
asc. node	2683 Dec 06 07:49	21°♏27'34	
direct	2683 Dec 11 21:08	20°♏49'33	
greatest brilliancy	2683 Dec 22 18:16	23°♏02'59	-4.9m
	2684 Jan 04 06:01	0°♐	
morning max el	2684 Jan 31 13:02	24°♐06'30	46°57'58
	2684 Feb 06 05:58	0°♑	
	2684 Mar 04 10:34	0°♒	
desc. node	2684 Mar 26 21:35	26°♒07'45	
	2684 Mar 30 04:15	0°♓	
	2684 Apr 24 08:11	0°♈	
	2684 May 19 06:06	0°♉	
	2684 Jun 13 00:54	0°♊	
	2684 Jul 07 16:58	0°♋	
asc. node	2684 Jul 18 00:40	12°♋36'00	
morning set	2684 Aug 01 08:12	0°♌08'00	
	2684 Aug 01 05:36	0°♌	
	2684 Aug 25 14:15	0°♍	
max. Earth dist.	2684 Sep 03 14:08	11°♍07'39	1.72900 AU
superior conj	2684 Sep 06 18:32	15°♍04'13	1°24'05
minimum elong	2684 Sep 06 15:56	14°♍56'11	1°24'03
	2684 Sep 18 19:27	0°♎	
	2684 Oct 12 22:33	0°♏	
evening rise	2684 Oct 13 22:14	1°♏13'39	
	2684 Nov 06 00:49	0°♐	
desc. node	2684 Nov 06 14:23	0°♐42'17	
	2684 Nov 30 03:03	0°♑	
	2684 Dec 24 06:10	0°♒	
	2685 Jan 17 12:21	0°♓	
	2685 Feb 11 02:29	0°♈	
asc. node	2685 Feb 27 17:24	19°♈50'43	
	2685 Mar 08 09:35	0°♉	
	2685 Apr 04 04:33	0°♊	
evening max el	2685 Apr 18 23:04	15°♊10'53	45°54'12
	2685 May 05 06:41	0°♋	
greatest brilliancy	2685 May 27 03:13	13°♋46'19	-4.7m
retrograde	2685 Jun 07 03:55	15°♋59'19	
desc. node	2685 Jun 19 06:55	13°♋04'53	
evening set	2685 Jun 22 05:50	11°♋34'56	
inferior conj	2685 Jun 28 15:48	7°♋44'21	-2°11'43
minimum elong	2685 Jun 28 11:04	7°♋51'46	2°10'21
min. Earth dist.	2685 Jun 28 11:58	7°♋50'21	0.28931 AU
morning rise	2685 Jul 04 16:22	4°♋06'20	
	2685 Jul 15 00:34	30°℞♊	
direct	2685 Jul 20 05:09	29°♊28'05	
	2685 Jul 25 13:22	0°♋	
greatest brilliancy	2685 Jul 30 13:14	1°♋22'42	-4.7m
morning max el	2685 Sep 07 02:07	29°♋20'37	45°51'37
	2685 Sep 07 18:28	0°♌	
	2685 Oct 06 09:27	0°♍	
asc. node	2685 Oct 10 10:20	4°♍31'02	
	2685 Nov 01 11:20	0°♎	
	2685 Nov 26 09:48	0°♏	
	2685 Dec 20 18:33	0°♐	
	2686 Jan 13 20:52	0°♑	
desc. node	2686 Jan 29 23:42	20°♑08'57	
	2686 Feb 06 20:40	0°♒	
	2686 Mar 02 20:08	0°♓	
morning set	2686 Mar 12 04:04	11°♓39'36	
	2686 Mar 26 20:49	0°♈	
	2686 Apr 19 23:57	0°♉	
superior conj	2686 Apr 20 14:33	0°♉45'16	-1°07'41
minimum elong	2686 Apr 21 00:42	1°♉16'42	1°07'22
max. Earth dist.	2686 Apr 24 01:28	5°♉02'11	1.72626 AU
	2686 May 14 06:11	0°♊	
asc. node	2686 May 23 03:07	10°♊55'58	
evening rise	2686 May 28 19:02	17°♊53'58	
	2686 Jun 07 15:31	0°♋	
	2686 Jul 02 03:46	0°♌	
	2686 Jul 26 19:25	0°♍	
	2686 Aug 20 16:06	0°♎	
desc. node	2686 Sep 11 16:32	26°♎15'13	

	2686 Sep 14 20:33	0°♏	
	2686 Oct 10 13:18	0°♐	
	2686 Nov 06 05:34	0°♑	
evening max el	2686 Nov 24 06:59	19°♑00'52	47°09'14
	2686 Dec 05 16:26	0°♒	
asc. node	2687 Jan 02 19:39	19°♒54'05	
greatest brilliancy	2687 Jan 03 20:09	20°♒17'53	-4.9m
retrograde	2687 Jan 14 01:17	22°♒17'43	
evening set	2687 Jan 29 20:26	17°♒19'57	
min. Earth dist.	2687 Feb 02 20:52	14°♒55'42	0.26862 AU
inferior conj	2687 Feb 03 16:25	14°♒25'38	7°08'36
minimum elong	2687 Feb 03 06:08	14°♒41'27	7°06'36
morning rise	2687 Feb 07 16:12	12°♒01'13	
direct	2687 Feb 24 03:23	6°♒43'24	
greatest brilliancy	2687 Mar 05 06:30	8°♒18'41	-4.9m
	2687 Apr 06 00:19	0°♓	
morning max el	2687 Apr 15 00:42	8°♓34'36	46°27'07
desc. node	2687 Apr 24 09:18	18°♓02'47	
	2687 May 05 15:44	0°♈	
	2687 Jun 01 13:12	0°♉	
	2687 Jun 27 10:46	0°♊	
	2687 Jul 22 19:17	0°♋	
asc. node	2687 Aug 15 12:32	28°♋31'21	
	2687 Aug 16 17:48	0°♌	
	2687 Sep 10 07:28	0°♍	
	2687 Oct 04 13:55	0°♎	
morning set	2687 Oct 10 05:29	7°♎01'26	
	2687 Oct 28 15:23	0°♏	
max. Earth dist.	2687 Nov 15 11:11	22°♏19'21	1.71513 AU
superior conj	2687 Nov 17 13:16	24°♏56'19	0°40'24
minimum elong	2687 Nov 17 22:07	25°♏24'05	0°40'00
	2687 Nov 21 14:06	0°♐	
desc. node	2687 Dec 05 02:10	16°♐57'00	
	2687 Dec 15 11:36	0°♑	
evening rise	2687 Dec 28 05:38	16°♑01'03	
	2688 Jan 08 08:53	0°♒	
	2688 Feb 01 07:17	0°♓	
	2688 Feb 25 09:02	0°♈	
	2688 Mar 20 17:18	0°♉	
asc. node	2688 Mar 27 05:24	7°♉56'05	
	2688 Apr 14 12:20	0°♊	
	2688 May 10 00:32	0°♋	
	2688 Jun 05 19:29	0°♌	
evening max el	2688 Jun 28 14:57	23°♌22'06	45°25'42
	2688 Jul 05 18:24	0°♍	
desc. node	2688 Jul 16 18:46	9°♍13'47	
greatest brilliancy	2688 Aug 06 04:02	21°♍08'58	-4.7m
retrograde	2688 Aug 16 04:29	22°♍56'32	
evening set	2688 Sep 03 00:27	17°♍00'59	
inferior conj	2688 Sep 06 12:43	14°♍51'38	-8°33'33
minimum elong	2688 Sep 06 09:33	14°♍56'34	8°33'24
min. Earth dist.	2688 Sep 06 22:43	14°♍36'05	0.28721 AU
morning rise	2688 Sep 09 18:31	12°♍51'45	
direct	2688 Sep 28 01:26	6°♍37'41	
greatest brilliancy	2688 Oct 08 22:08	8°♍47'36	-4.8m
asc. node	2688 Nov 06 21:58	28°♍54'34	
	2688 Nov 08 02:24	0°♎	
morning max el	2688 Nov 17 04:33	8°♎47'43	46°32'53
	2688 Dec 07 02:54	0°♏	
	2689 Jan 02 03:21	0°♐	
	2689 Jan 27 02:30	0°♑	
	2689 Feb 20 15:11	0°♒	
desc. node	2689 Feb 26 11:43	7°♒11'57	
	2689 Mar 16 23:43	0°♓	
	2689 Apr 10 07:14	0°♈	
	2689 May 04 15:21	0°♉	
morning set	2689 May 23 02:30	22°♉43'17	
	2689 May 29 00:37	0°♊	
asc. node	2689 Jun 19 14:53	26°♊32'11	
	2689 Jun 22 10:32	0°♋	
superior conj	2689 Jun 29 02:19	8°♋10'46	0°22'20
minimum elong	2689 Jun 28 21:50	7°♋56'57	0°22'08
max. Earth dist.	2689 Jun 28 20:35	7°♋53'10	1.73555 AU
	2689 Jul 16 20:18	0°♌	
evening rise	2689 Aug 04 01:42	22°♌25'10	
	2689 Aug 10 05:30	0°♍	
	2689 Sep 03 14:40	0°♎	
	2689 Sep 28 00:53	0°♏	
desc. node	2689 Oct 09 04:32	13°♏39'55	
	2689 Oct 22 13:12	0°♐	
	2689 Nov 16 04:51	0°♑	
	2689 Dec 11 03:00	0°♒	
	2690 Jan 05 16:44	0°♓	
asc. node	2690 Jan 30 07:33	27°♓10'59	
	2690 Feb 02 00:32	0°♈	
evening max el	2690 Feb 04 10:49	2°♈29'13	47°00'13
	2690 Mar 09 05:29	0°♉	
greatest brilliancy	2690 Mar 16 13:51	3°♉31'53	-4.9m
retrograde	2690 Mar 27 00:50	5°♉35'04	
	2690 Apr 12 23:18	30°℞♈	
evening set	2690 Apr 13 03:22	29°♈53'55	
inferior conj	2690 Apr 17 04:07	27°♈23'43	7°11'18
minimum elong	2690 Apr 17 13:40	27°♈08'40	7°09'38
min. Earth dist.	2690 Apr 17 00:32	27°♈29'22	0.28212 AU
morning rise	2690 Apr 22 00:17	24°♈25'41	
direct	2690 May 08 06:45	19°♈19'28	
greatest brilliancy	2690 May 17 21:13	21°♈01'00	-4.8m
desc. node	2690 May 21 21:00	22°♈36'00	
	2690 Jun 03 08:30	0°♉	
morning max el	2690 Jun 26 04:19	19°♉25'55	45°47'58
	2690 Jul 06 20:38	0°♊	
	2690 Aug 03 19:53	0°♋	
	2690 Aug 30 01:34	0°♌	
asc. node	2690 Sep 12 00:30	15°♌15'48	
	2690 Sep 24 08:05	0°♍	
	2690 Oct 18 23:13	0°♎	
	2690 Nov 12 04:25	0°♏	
	2690 Dec 06 04:00	0°♐	
greatest brilliancy	2690 Dec 09 07:01	3°♐55'19	-3.9m
morning set	2690 Dec 22 11:57	20°♐30'41	
	2690 Dec 30 01:01	0°♑	
desc. node	2691 Jan 01 13:57	3°♑11'35	
	2691 Jan 22 21:19	0°♒	
superior conj	2691 Feb 02 03:00	12°♒52'26	-1°06'27
minimum elong	2691 Feb 01 15:08	12°♒15'10	1°06'05
max. Earth dist.	2691 Feb 04 06:21	15°♒33'47	1.71200 AU
	2691 Feb 15 18:12	0°♓	
	2691 Mar 11 17:07	0°♈	
evening rise	2691 Mar 14 23:48	4°♈05'32	
	2691 Apr 04 19:46	0°♉	
asc. node	2691 Apr 24 17:16	24°♉33'00	
	2691 Apr 29 03:50	0°♊	
	2691 May 23 18:47	0°♋	
	2691 Jun 17 18:39	0°♌	
	2691 Jul 13 07:39	0°♍	
	2691 Aug 08 19:20	0°♎	
desc. node	2691 Aug 14 06:41	5°♎59'27	
	2691 Sep 06 08:12	0°♏	
evening max el	2691 Sep 09 17:05	3°♏16'50	46°05'56
	2691 Oct 14 04:29	0°♐	
greatest brilliancy	2691 Oct 19 22:10	2°♐20'32	-4.8m

retrograde	2691 Oct 29 00:52	3°♐52'56	
	2691 Nov 12 04:04	30°℞♏	
evening set	2691 Nov 13 09:11	29°♏21'15	
inferior conj	2691 Nov 18 18:27	26°♏11'33	-4°06'49
minimum elong	2691 Nov 19 02:58	25°♏58'33	4°04'24
min. Earth dist.	2691 Nov 19 12:23	25°♏44'14	0.26925 AU
morning rise	2691 Nov 24 20:01	22°♏37'58	
asc. node	2691 Dec 05 09:45	18°♏43'25	
direct	2691 Dec 09 10:26	18°♏23'21	
greatest brilliancy	2691 Dec 20 09:21	20°♏38'42	-4.9m
	2692 Jan 05 03:52	0°♐	
morning max el	2692 Jan 29 03:15	21°♐42'28	46°58'04
	2692 Feb 06 02:42	0°♑	
	2692 Mar 04 02:27	0°♒	
desc. node	2692 Mar 25 23:36	25°♒32'24	
	2692 Mar 29 18:02	0°♓	
	2692 Apr 23 20:50	0°♈	
	2692 May 18 18:00	0°♉	
	2692 Jun 12 12:19	0°♊	
	2692 Jul 07 04:06	0°♋	
asc. node	2692 Jul 17 02:45	12°♋08'42	
morning set	2692 Jul 30 01:52	28°♋01'20	
	2692 Jul 31 16:32	0°♌	
	2692 Aug 25 01:07	0°♍	
max. Earth dist.	2692 Sep 01 10:35	9°♍08'40	1.72941 AU
superior conj	2692 Sep 04 12:02	12°♍56'02	1°23'33
minimum elong	2692 Sep 04 08:46	12°♍45'56	1°23'31
	2692 Sep 18 06:22	0°♎	
evening rise	2692 Oct 11 13:24	28°♎57'15	
	2692 Oct 12 09:34	0°♏	
desc. node	2692 Nov 05 16:21	0°♐13'28	
	2692 Nov 05 12:02	0°♐	
	2692 Nov 29 14:31	0°♑	
	2692 Dec 23 17:57	0°♒	
	2693 Jan 17 00:36	0°♓	
	2693 Feb 10 15:31	0°♈	
asc. node	2693 Feb 26 19:27	19°♈15'52	
	2693 Mar 08 00:06	0°♉	
	2693 Apr 03 22:39	0°♊	
evening max el	2693 Apr 16 14:51	12°♊58'04	45°56'20
	2693 May 05 16:12	0°♋	
greatest brilliancy	2693 May 24 18:59	11°♋35'44	-4.7m
retrograde	2693 Jun 04 20:55	13°♋49'42	
desc. node	2693 Jun 18 08:54	10°♋14'13	
evening set	2693 Jun 19 21:52	9°♋25'26	
inferior conj	2693 Jun 26 08:01	5°♋34'28	-1°52'18
minimum elong	2693 Jun 26 03:57	5°♋40'50	1°51'07
min. Earth dist.	2693 Jun 26 03:59	5°♋40'47	0.28916 AU
morning rise	2693 Jul 02 10:12	1°♋54'32	
	2693 Jul 06 04:52	30°℞♊	
direct	2693 Jul 17 21:29	27°♊18'23	
greatest brilliancy	2693 Jul 28 04:39	29°♊12'41	-4.7m
	2693 Jul 30 06:11	0°♋	
morning max el	2693 Sep 04 18:45	27°♋11'43	45°50'41
	2693 Sep 07 16:07	0°♌	
	2693 Oct 06 00:56	0°♍	
asc. node	2693 Oct 09 12:15	3°♍53'58	
	2693 Nov 01 00:39	0°♎	
	2693 Nov 25 22:07	0°♏	
	2693 Dec 20 06:20	0°♐	
	2694 Jan 13 08:20	0°♑	
desc. node	2694 Jan 29 01:53	19°♑40'26	
	2694 Feb 06 07:55	0°♒	
	2694 Mar 02 07:13	0°♓	
morning set	2694 Mar 09 15:37	9°♓11'13	
	2694 Mar 26 07:48	0°♈	
superior conj	2694 Apr 18 04:46	28°♈26'43	-1°09'50
minimum elong	2694 Apr 18 14:46	28°♈57'42	1°09'33
	2694 Apr 19 10:51	0°♉	
max. Earth dist.	2694 Apr 21 17:48	2°♉50'20	1.72578 AU
	2694 May 13 17:02	0°♊	
asc. node	2694 May 22 05:05	10°♊28'36	
evening rise	2694 May 26 11:40	15°♊44'11	
	2694 Jun 07 02:24	0°♋	
	2694 Jul 01 14:49	0°♌	
	2694 Jul 26 06:51	0°♍	
	2694 Aug 20 04:10	0°♎	
desc. node	2694 Sep 10 18:34	25°♎43'01	
	2694 Sep 14 09:37	0°♏	
	2694 Oct 10 04:06	0°♐	
	2694 Nov 05 23:54	0°♑	
evening max el	2694 Nov 21 22:05	16°♑40'18	47°08'05
	2694 Dec 05 22:29	0°♒	
greatest brilliancy	2695 Jan 01 09:19	17°♒50'44	-4.9m
asc. node	2695 Jan 01 21:45	18°♒02'02	
retrograde	2695 Jan 11 14:58	19°♒50'22	
evening set	2695 Jan 27 05:39	14°♒58'47	
min. Earth dist.	2695 Jan 31 09:41	12°♒29'16	0.26814 AU
inferior conj	2695 Feb 01 05:14	11°♒59'11	6°53'56
minimum elong	2695 Jan 31 18:46	12°♒15'17	6°51'48
morning rise	2695 Feb 05 08:19	9°♒30'08	
direct	2695 Feb 21 16:27	4°♒17'57	
greatest brilliancy	2695 Mar 02 19:03	5°♒52'56	-4.9m
	2695 Apr 06 03:11	0°♓	
morning max el	2695 Apr 12 14:20	6°♓13'28	46°28'30
desc. node	2695 Apr 23 11:18	17°♓16'49	
	2695 May 05 08:57	0°♈	
	2695 Jun 01 03:18	0°♉	
	2695 Jun 26 23:21	0°♊	
	2695 Jul 22 07:00	0°♋	
asc. node	2695 Aug 14 14:39	28°♋03'48	
	2695 Aug 16 05:00	0°♌	
	2695 Sep 09 18:24	0°♍	
	2695 Oct 04 00:45	0°♎	
morning set	2695 Oct 07 20:56	4°♎46'33	
	2695 Oct 28 02:14	0°♏	
max. Earth dist.	2695 Nov 12 18:15	19°♏37'02	1.71552 AU
superior conj	2695 Nov 15 01:57	22°♏31'33	0°43'39
minimum elong	2695 Nov 15 11:14	23°♏00'38	0°43'14
	2695 Nov 21 01:00	0°♐	
desc. node	2695 Dec 04 04:13	16°♐29'08	
	2695 Dec 14 22:33	0°♑	
evening rise	2695 Dec 25 16:14	13°♑29'02	
	2696 Jan 07 19:55	0°♒	
	2696 Jan 31 18:25	0°♓	
	2696 Feb 24 20:19	0°♈	
	2696 Mar 20 04:54	0°♉	
asc. node	2696 Mar 26 07:21	7°♉26'20	
	2696 Apr 14 00:34	0°♊	
	2696 May 09 14:03	0°♋	
	2696 Jun 05 11:59	0°♌	
evening max el	2696 Jun 26 05:51	21°♌09'23	45°25'23
	2696 Jul 05 21:05	0°♍	
desc. node	2696 Jul 15 20:57	8°♍08'46	
greatest brilliancy	2696 Aug 03 18:34	18°♍57'07	-4.7m
retrograde	2696 Aug 13 19:02	20°♍44'59	
evening set	2696 Aug 31 13:32	14°♍52'45	
inferior conj	2696 Sep 04 04:16	12°♍39'38	-8°29'34
minimum elong	2696 Sep 04 00:21	12°♍45'45	8°29'21
min. Earth dist.	2696 Sep 04 13:38	12°♍25'01	0.28760 AU
morning rise	2696 Sep 07 10:59	10°♍38'06	
direct	2696 Sep 25 16:55	4°♍25'12	

greatest brilliancy	2696 Oct 06 13:36	6°♍34'16	-4.8m	
asc. node	2696 Nov 06 00:02	27°♍58'35		
	2696 Nov 08 03:48	0°♎		
morning max el	2696 Nov 14 18:13	6°♎26'49	46°31'18	
	2696 Dec 06 19:38	0°♏		
	2697 Jan 01 17:23	0°♐		
	2697 Jan 26 15:13	0°♑		
	2697 Feb 20 03:08	0°♒		
desc. node	2697 Feb 25 13:42	6°♒41'42		
	2697 Mar 16 11:10	0°♓		
	2697 Apr 09 18:18	0°♈		
	2697 May 04 02:08	0°♉		
morning set	2697 May 20 19:31	20°♉35'21		
	2697 May 28 11:12	0°♊		
asc. node	2697 Jun 18 17:00	26°♊06'22		
	2697 Jun 21 21:03	0°♋		
superior conj	2697 Jun 26 20:24	6°♋06'34	0°19'16	
minimum elong	2697 Jun 26 16:29	5°♋54'33	0°19'04	
max. Earth dist.	2697 Jun 26 16:06	5°♋53'22	1.73551 AU	
	2697 Jul 16 06:50	0°♌		
evening rise	2697 Aug 01 20:23	20°♌22'21		
	2697 Aug 09 16:10	0°♍		
	2697 Sep 03 01:34	0°♎		
	2697 Sep 27 12:08	0°♏		
desc. node	2697 Oct 08 06:28	13°♏10'40		
	2697 Oct 22 00:59	0°♐		
	2697 Nov 15 17:23	0°♑		
	2697 Dec 10 16:42	0°♒		
	2698 Jan 05 08:33	0°♓		
asc. node	2698 Jan 29 09:40	26°♓23'24		
	2698 Feb 01 21:51	0°♈		
evening max el	2698 Feb 02 00:21	0°♈06'21	47°02'01	
	2698 Mar 11 05:21	0°♉		
greatest brilliancy	2698 Mar 14 06:33	1°♉17'10	-4.9m	
retrograde	2698 Mar 24 16:02	3°♉19'32		
	2698 Apr 06 12:23	30°℞♈		
evening set	2698 Apr 10 21:37	27°♈34'16		
inferior conj	2698 Apr 14 19:25	25°♈08'41	7°23'27	
minimum elong	2698 Apr 15 04:41	24°♈54'05	7°21'56	
min. Earth dist.	2698 Apr 14 15:40	25°♈14'37	0.28174 AU	
morning rise	2698 Apr 19 11:59	22°♈15'48		
direct	2698 May 05 20:46	17°♈04'57		
greatest brilliancy	2698 May 15 11:39	18°♈46'31	-4.8m	
desc. node	2698 May 20 23:01	21°♈03'18		
	2698 Jun 03 24:00	0°♉		
morning max el	2698 Jun 23 18:56	17°♉12'27	45°48'47	
	2698 Jul 06 15:14	0°♊		
	2698 Aug 03 10:11	0°♋		
	2698 Aug 29 14:07	0°♌		
asc. node	2698 Sep 11 02:25	14°♌45'45		
	2698 Sep 23 19:46	0°♍		
	2698 Oct 18 10:28	0°♎		
	2698 Nov 11 15:25	0°♏		
	2698 Dec 05 14:54	0°♐		
greatest brilliancy	2698 Dec 09 22:55	5°♐26'19	-3.9m	
morning set	2698 Dec 19 22:39	17°♐59'13		
	2698 Dec 29 11:54	0°♑		
desc. node	2698 Dec 31 16:03	2°♑44'01		
	2699 Jan 22 08:11	0°♒		
superior conj	2699 Jan 30 12:48	10°♒18'17	-1°03'49	
minimum elong	2699 Jan 30 00:48	9°♒40'32	1°03'25	
max. Earth dist.	2699 Feb 01 08:49	12°♒36'37	1.71179 AU	
	2699 Feb 15 05:03	0°♓		
	2699 Mar 11 03:56	0°♈		
evening rise	2699 Mar 12 11:04	1°♈37'11		
	2699 Apr 04 06:36	0°♉		
asc. node	2699 Apr 23 19:17	24°♉05'37		
	2699 Apr 28 14:47	0°♊		
	2699 May 23 06:03	0°♋		
	2699 Jun 17 06:32	0°♌		
	2699 Jul 12 20:43	0°♍		
	2699 Aug 08 10:54	0°♎		
desc. node	2699 Aug 13 08:40	5°♎20'29		
	2699 Sep 06 06:29	0°♏		
evening max el	2699 Sep 07 06:36	0°♏58'11	46°03'39	
greatest brilliancy	2699 Oct 17 10:32	29°♏56'55	-4.8m	
	2699 Oct 17 14:22	0°♐		
retrograde	2699 Oct 26 13:44	1°♐29'33		
	2699 Nov 04 04:44	30°℞♏		
evening set	2699 Nov 11 00:39	26°♏53'23		
inferior conj	2699 Nov 16 07:15	23°♏47'20	-4°27'17	
minimum elong	2699 Nov 16 16:18	23°♏33'34	4°24'47	
min. Earth dist.	2699 Nov 17 02:02	23°♏18'47	0.26986 AU	
morning rise	2699 Nov 22 07:16	20°♏16'08		
asc. node	2699 Dec 04 11:52	16°♏05'52		
direct	2699 Dec 07 00:15	15°♏58'02		
greatest brilliancy	2699 Dec 17 23:48	18°♏14'33	-4.9m	
	2700 Jan 05 19:46	0°♐		
morning max el	2700 Jan 26 18:15	19°♐21'23	46°58'08	
	2700 Feb 05 22:27	0°♑		
	2700 Mar 04 17:44	0°♒		
desc. node	2700 Mar 26 01:33	24°♒58'05		
	2700 Mar 30 07:23	0°♓		
	2700 Apr 24 09:03	0°♈		
	2700 May 19 05:31	0°♉		
	2700 Jun 12 23:21	0°♊		
	2700 Jul 07 14:49	0°♋		
asc. node	2700 Jul 17 04:50	11°♋42'35		
morning set	2700 Jul 28 20:01	25°♋57'23		
	2700 Aug 01 03:06	0°♌		
	2700 Aug 25 11:38	0°♍		
max. Earth dist.	2700 Aug 31 07:23	7°♍11'54	1.72984 AU	
superior conj	2700 Sep 03 05:53	10°♍50'01	1°22'54	
minimum elong	2700 Sep 03 01:59	10°♍37'59	1°22'52	
	2700 Sep 18 16:57	0°♎		
evening rise	2700 Oct 10 04:46	26°♎42'18		
	2700 Oct 12 20:21	0°♏		
desc. node	2700 Nov 05 18:27	29°♏45'40		
	2700 Nov 05 23:03	0°♐		
	2700 Nov 30 01:49	0°♑		
	2700 Dec 24 05:34	0°♒		
	2701 Jan 17 12:42	0°♓		
	2701 Feb 11 04:24	0°♈		
asc. node	2701 Feb 26 21:23	18°♈41'12		
	2701 Mar 08 14:32	0°♉		
	2701 Apr 04 16:54	0°♊		
evening max el	2701 Apr 15 07:35	10°♊48'16	45°58'30	
	2701 May 07 04:33	0°♋		
greatest brilliancy	2701 May 23 11:23	9°♋26'59	-4.7m	
retrograde	2701 Jun 03 14:03	11°♋41'13		
desc. node	2701 Jun 18 11:04	7°♋21'42		
evening set	2701 Jun 18 14:20	7°♋17'14		
inferior conj	2701 Jun 25 00:27	3°♋25'56	-1°32'51	
minimum elong	2701 Jun 24 21:03	3°♋31'14	1°31'52	
min. Earth dist.	2701 Jun 24 20:10	3°♋32'38	0.28895 AU	
	2701 Jun 30 16:43	30°℞♊		
morning rise	2701 Jul 01 04:04	29°♊44'11		
direct	2701 Jul 16 14:13	25°♊10'19		
greatest brilliancy	2701 Jul 26 19:44	27°♊03'32	-4.7m	
	2701 Aug 02 11:23	0°♋		
morning max el	2701 Sep 03 11:09	25°♋03'27	45°49'44	

	2701 Sep 08 12:32	0°♌	
	2701 Oct 06 15:51	0°♍	
asc. node	2701 Oct 09 14:20	3°♍18'37	
	2701 Nov 01 13:38	0°♎	
	2701 Nov 26 10:15	0°♏	
	2701 Dec 20 18:02	0°♐	
	2702 Jan 13 19:44	0°♑	
desc. node	2702 Jan 29 03:53	19°♑11'30	
	2702 Feb 06 19:06	0°♒	
	2702 Mar 02 18:14	0°♓	
morning set	2702 Mar 08 02:47	6°♓41'51	
	2702 Mar 26 18:41	0°♈	
superior conj	2702 Apr 16 18:45	26°♈07'38	-1°11'54
minimum elong	2702 Apr 17 04:31	26°♈37'57	1°11'38
	2702 Apr 19 21:39	0°♉	
max. Earth dist.	2702 Apr 20 11:36	0°♉43'17	1.72525 AU
	2702 May 14 03:48	0°♊	
asc. node	2702 May 22 07:13	10°♊02'03	
evening rise	2702 May 25 04:13	13°♊34'21	
	2702 Jun 07 13:12	0°♋	
	2702 Jul 02 01:48	0°♌	
	2702 Jul 26 18:10	0°♍	
	2702 Aug 20 16:07	0°♎	
desc. node	2702 Sep 10 20:34	25°♎11'09	
	2702 Sep 14 22:37	0°♏	
	2702 Oct 10 18:57	0°♐	
	2702 Nov 06 18:39	0°♑	
evening max el	2702 Nov 20 12:36	14°♑18'09	47°06'25
	2702 Dec 07 07:03	0°♒	
greatest brilliancy	2702 Dec 30 22:53	15°♒23'01	-4.9m
asc. node	2703 Jan 01 23:49	16°♒04'19	
retrograde	2703 Jan 10 03:49	17°♒21'24	
evening set	2703 Jan 25 14:39	12°♒36'06	
min. Earth dist.	2703 Jan 29 22:48	10°♒00'38	0.26770 AU
inferior conj	2703 Jan 30 17:46	9°♒31'24	6°38'16
minimum elong	2703 Jan 30 07:12	9°♒47'42	6°35'59
morning rise	2703 Feb 04 00:09	6°♒57'28	
direct	2703 Feb 20 04:51	1°♒51'01	
greatest brilliancy	2703 Mar 01 08:06	3°♒26'18	-4.9m
	2703 Apr 07 04:54	0°♓	
morning max el	2703 Apr 11 02:47	3°♓48'31	46°30'03
desc. node	2703 Apr 23 13:25	16°♓31'21	
	2703 May 06 01:57	0°♈	
	2703 Jun 01 17:19	0°♉	
	2703 Jun 27 11:54	0°♊	
	2703 Jul 22 18:42	0°♋	
asc. node	2703 Aug 14 16:33	27°♋35'31	
	2703 Aug 16 16:12	0°♌	
	2703 Sep 10 05:20	0°♍	
	2703 Oct 04 11:34	0°♎	
morning set	2703 Oct 06 13:00	2°♎33'38	
	2703 Oct 28 13:04	0°♏	
max. Earth dist.	2703 Nov 11 03:29	17°♏01'34	1.71596 AU
superior conj	2703 Nov 13 15:20	20°♏09'02	0°46'45
minimum elong	2703 Nov 14 00:57	20°♏39'11	0°46'21
	2703 Nov 21 11:54	0°♐	
desc. node	2703 Dec 04 06:21	16°♐01'21	
	2703 Dec 15 09:34	0°♑	
evening rise	2703 Dec 24 03:08	10°♑57'43	
	2704 Jan 08 07:05	0°♒	
	2704 Feb 01 05:45	0°♓	
	2704 Feb 25 07:52	0°♈	
	2704 Mar 20 16:48	0°♉	
asc. node	2704 Mar 26 09:24	6°♉56'01	
	2704 Apr 14 13:07	0°♊	
	2704 May 10 03:58	0°♋	
	2704 Jun 06 05:04	0°♌	
evening max el	2704 Jun 24 20:12	18°♌54'49	45°25'19
	2704 Jul 07 01:43	0°♍	
desc. node	2704 Jul 15 22:55	7°♍01'13	
greatest brilliancy	2704 Aug 02 09:00	16°♍44'56	-4.7m
retrograde	2704 Aug 12 09:52	18°♍33'43	
evening set	2704 Aug 30 02:32	12°♍44'49	
inferior conj	2704 Sep 02 19:59	10°♍27'47	-8°24'54
minimum elong	2704 Sep 02 15:19	10°♍35'04	8°24'36
min. Earth dist.	2704 Sep 03 04:50	10°♍14'00	0.28793 AU
morning rise	2704 Sep 06 03:55	8°♍24'23	
direct	2704 Sep 24 08:23	2°♍12'44	
greatest brilliancy	2704 Oct 05 05:43	4°♍21'51	-4.8m
asc. node	2704 Nov 06 02:05	27°♍03'43	
	2704 Nov 09 04:00	0°♎	
morning max el	2704 Nov 13 08:17	4°♎06'57	46°29'54
	2704 Dec 07 12:07	0°♏	
	2705 Jan 02 07:22	0°♐	
	2705 Jan 27 04:03	0°♑	
	2705 Feb 20 15:19	0°♒	
desc. node	2705 Feb 25 15:40	6°♒10'36	
	2705 Mar 16 22:55	0°♓	
	2705 Apr 10 05:43	0°♈	
	2705 May 04 13:17	0°♉	
morning set	2705 May 19 11:57	18°♉24'22	
	2705 May 28 22:09	0°♊	
asc. node	2705 Jun 18 19:00	25°♊39'10	
	2705 Jun 22 07:54	0°♋	
superior conj	2705 Jun 25 14:07	4°♋00'16	0°16'08
minimum elong	2705 Jun 25 10:48	3°♋50'06	0°15'58
max. Earth dist.	2705 Jun 25 11:30	3°♋52'14	1.73543 AU
	2705 Jul 16 17:42	0°♌	
evening rise	2705 Jul 31 15:03	18°♌18'36	
	2705 Aug 10 03:09	0°♍	
	2705 Sep 03 12:47	0°♎	
	2705 Sep 27 23:43	0°♏	
desc. node	2705 Oct 08 08:35	12°♏41'10	
	2705 Oct 22 13:03	0°♐	
	2705 Nov 16 06:12	0°♑	
	2705 Dec 11 06:41	0°♒	
	2706 Jan 06 00:48	0°♓	
asc. node	2706 Jan 29 11:33	25°♓33'47	
evening max el	2706 Jan 31 14:01	27°♓43'01	47°03'32
	2706 Feb 02 20:18	0°♈	
greatest brilliancy	2706 Mar 12 22:27	28°♈59'49	-4.9m
	2706 Mar 16 00:04	0°♉	
retrograde	2706 Mar 23 07:18	1°♉02'10	
	2706 Mar 30 09:27	30°℞♈	
evening set	2706 Apr 09 15:35	25°♈12'28	
inferior conj	2706 Apr 13 10:30	22°♈51'31	7°34'59
minimum elong	2706 Apr 13 19:25	22°♈37'29	7°33'37
min. Earth dist.	2706 Apr 13 06:24	22°♈57'58	0.28144 AU
morning rise	2706 Apr 17 23:27	20°♈04'06	
direct	2706 May 04 10:49	14°♈48'04	
greatest brilliancy	2706 May 14 01:54	16°♈29'54	-4.8m
desc. node	2706 May 21 01:09	19°♈32'07	
	2706 Jun 05 12:23	0°♉	
morning max el	2706 Jun 22 10:20	14°♉59'09	45°49'42
	2706 Jul 07 09:57	0°♊	
	2706 Aug 04 00:48	0°♋	
	2706 Aug 30 03:00	0°♌	
asc. node	2706 Sep 11 04:29	14°♌15'07	
	2706 Sep 24 07:47	0°♍	
	2706 Oct 18 22:02	0°♎	
	2706 Nov 12 02:45	0°♏	

	2706 Dec 06 02:08	0°♐	
greatest brilliancy	2706 Dec 11 07:22	6°♐32'57	-3.9m
morning set	2706 Dec 18 10:01	15°♐28'55	
	2706 Dec 29 23:04	0°♑	
desc. node	2706 Dec 31 18:04	2°♑15'14	
	2707 Jan 22 19:19	0°♒	
superior conj	2707 Jan 28 23:01	7°♒44'32	-1°01'04
minimum elong	2707 Jan 28 10:58	7°♒06'38	1°00'38
max. Earth dist.	2707 Jan 30 15:52	9°♒53'00	1.71160 AU
	2707 Feb 15 16:09	0°♓	
evening rise	2707 Mar 10 22:36	29°♓08'38	
	2707 Mar 11 15:03	0°♈	
	2707 Apr 04 17:49	0°♉	
asc. node	2707 Apr 23 21:24	23°♉37'12	
	2707 Apr 29 02:12	0°♊	
	2707 May 23 17:49	0°♋	
	2707 Jun 17 18:59	0°♌	
	2707 Jul 13 10:26	0°♍	
	2707 Aug 09 03:16	0°♎	
desc. node	2707 Aug 13 10:40	4°♎39'49	
evening max el	2707 Sep 05 20:51	28°♎40'11	46°01'31
	2707 Sep 07 06:17	0°♏	
greatest brilliancy	2707 Oct 15 22:40	27°♏32'18	-4.8m
retrograde	2707 Oct 25 02:44	29°♏05'10	
evening set	2707 Nov 09 16:18	24°♏24'41	
inferior conj	2707 Nov 14 20:06	21°♏22'12	-4°47'13
minimum elong	2707 Nov 15 05:35	21°♏07'46	4°44'41
min. Earth dist.	2707 Nov 15 15:25	20°♏52'49	0.27045 AU
morning rise	2707 Nov 20 18:15	17°♏53'36	
asc. node	2707 Dec 04 13:55	13°♏33'20	
direct	2707 Dec 05 14:25	13°♏32'02	
greatest brilliancy	2707 Dec 16 13:47	15°♏48'50	-4.9m
	2708 Jan 07 08:04	0°♐	
morning max el	2708 Jan 25 09:16	16°♐59'32	46°58'14
	2708 Feb 06 17:56	0°♑	
	2708 Mar 04 09:05	0°♒	
desc. node	2708 Mar 25 03:43	24°♒23'53	
	2708 Mar 29 20:51	0°♓	
	2708 Apr 23 21:29	0°♈	
	2708 May 18 17:19	0°♉	
	2708 Jun 12 10:45	0°♊	
	2708 Jul 07 01:57	0°♋	
asc. node	2708 Jul 16 06:48	11°♋14'47	
morning set	2708 Jul 26 13:52	23°♋51'17	
	2708 Jul 31 14:04	0°♌	
	2708 Aug 24 22:33	0°♍	
max. Earth dist.	2708 Aug 29 02:04	5°♍07'29	1.73023 AU
superior conj	2708 Aug 31 23:27	8°♍42'03	1°22'08
minimum elong	2708 Aug 31 18:59	8°♍28'12	1°22'05
	2708 Sep 18 03:56	0°♎	
evening rise	2708 Oct 07 20:00	24°♎25'50	
	2708 Oct 12 07:30	0°♏	
desc. node	2708 Nov 04 20:31	29°♏16'42	
	2708 Nov 05 10:26	0°♐	
	2708 Nov 29 13:28	0°♑	
	2708 Dec 23 17:33	0°♒	
	2709 Jan 17 01:08	0°♓	
	2709 Feb 10 17:38	0°♈	
asc. node	2709 Feb 25 23:31	18°♈06'10	
	2709 Mar 08 05:22	0°♉	
	2709 Apr 04 11:52	0°♊	
evening max el	2709 Apr 13 00:07	8°♊37'12	46°00'33
	2709 May 07 21:38	0°♋	
greatest brilliancy	2709 May 21 04:11	7°♋17'49	-4.7m
retrograde	2709 Jun 01 06:39	9°♋31'33	
evening set	2709 Jun 16 06:55	5°♋07'47	
desc. node	2709 Jun 17 13:01	4°♋25'23	
inferior conj	2709 Jun 22 16:49	1°♋16'20	-1°13'14
minimum elong	2709 Jun 22 14:08	1°♋20'32	1°12'26
min. Earth dist.	2709 Jun 22 12:33	1°♋23'02	0.28878 AU
	2709 Jun 24 17:44	30°℞♊	
morning rise	2709 Jun 28 21:43	27°♊32'39	
direct	2709 Jul 14 06:50	23°♊01'08	
greatest brilliancy	2709 Jul 24 10:57	24°♊53'09	-4.7m
	2709 Aug 03 22:47	0°♋	
morning max el	2709 Sep 01 02:48	22°♋52'09	45°48'46
	2709 Sep 08 08:48	0°♌	
	2709 Oct 06 07:00	0°♍	
asc. node	2709 Oct 08 16:28	2°♍42'29	
	2709 Nov 01 02:54	0°♎	
	2709 Nov 25 22:37	0°♏	
	2709 Dec 20 05:56	0°♐	
	2710 Jan 13 07:21	0°♑	
desc. node	2710 Jan 28 05:51	18°♑41'43	
	2710 Feb 06 06:29	0°♒	
	2710 Mar 02 05:28	0°♓	
morning set	2710 Mar 05 13:59	4°♓11'49	
	2710 Mar 26 05:46	0°♈	
superior conj	2710 Apr 14 08:52	23°♈48'21	-1°13'50
minimum elong	2710 Apr 14 18:19	24°♈17'42	1°13'35
max. Earth dist.	2710 Apr 18 05:55	28°♈37'08	1.72468 AU
	2710 Apr 19 08:37	0°♉	
	2710 May 13 14:44	0°♊	
asc. node	2710 May 21 09:13	9°♊34'32	
evening rise	2710 May 22 20:50	11°♊24'09	
	2710 Jun 07 00:11	0°♋	
	2710 Jul 01 12:59	0°♌	
	2710 Jul 26 05:47	0°♍	
	2710 Aug 20 04:24	0°♎	
desc. node	2710 Sep 09 22:40	24°♎38'33	
	2710 Sep 14 12:01	0°♏	
	2710 Oct 10 10:17	0°♐	
	2710 Nov 06 14:12	0°♑	
evening max el	2710 Nov 18 02:11	11°♑53'06	47°04'52
	2710 Dec 07 18:51	0°♒	
greatest brilliancy	2710 Dec 28 12:54	12°♒55'25	-4.9m
asc. node	2711 Jan 01 01:45	14°♒01'21	
retrograde	2711 Jan 07 16:09	14°♒52'14	
evening set	2711 Jan 22 23:53	10°♒12'48	
min. Earth dist.	2711 Jan 27 12:20	7°♒31'20	0.26727 AU
inferior conj	2711 Jan 28 06:24	7°♒03'29	6°21'51
minimum elong	2711 Jan 27 19:47	7°♒19'50	6°19'26
morning rise	2711 Feb 01 16:03	4°♒24'41	
	2711 Feb 12 06:12	30°℞♑	
direct	2711 Feb 17 16:50	29°♑23'41	
	2711 Feb 23 06:40	0°♒	
greatest brilliancy	2711 Feb 26 21:53	1°♒00'06	-4.9m
	2711 Apr 07 05:27	0°♓	
morning max el	2711 Apr 08 14:53	1°♓22'13	46°31'41
desc. node	2711 Apr 22 15:28	15°♓46'08	
	2711 May 05 18:43	0°♈	
	2711 Jun 01 07:16	0°♉	
	2711 Jun 27 00:25	0°♊	
	2711 Jul 22 06:25	0°♋	
asc. node	2711 Aug 13 18:41	27°♋07'43	
	2711 Aug 16 03:28	0°♌	
	2711 Sep 09 16:24	0°♍	
	2711 Oct 03 22:34	0°♎	
morning set	2711 Oct 04 04:53	0°♎19'37	
	2711 Oct 28 00:04	0°♏	
max. Earth dist.	2711 Nov 08 13:42	14°♏28'45	1.71641 AU

superior conj	2711 Nov 11 04:31	17°♏45'27	0°49'46
minimum elong	2711 Nov 11 14:26	18°♏16'30	0°49'23
	2711 Nov 20 22:57	0°♐	
desc. node	2711 Dec 03 08:19	15°♐32'40	
	2711 Dec 14 20:42	0°♑	
evening rise	2711 Dec 21 13:51	8°♑25'43	
	2712 Jan 07 18:19	0°♒	
	2712 Jan 31 17:08	0°♓	
	2712 Feb 24 19:27	0°♈	
	2712 Mar 20 04:44	0°♉	
asc. node	2712 Mar 25 11:30	6°♉25'44	
	2712 Apr 14 01:44	0°♊	
	2712 May 09 17:59	0°♋	
	2712 Jun 05 22:27	0°♌	
evening max el	2712 Jun 22 10:37	16°♌40'44	45°25'24
	2712 Jul 07 08:16	0°♍	
desc. node	2712 Jul 15 00:56	5°♍52'20	
greatest brilliancy	2712 Jul 30 22:43	14°♍32'28	-4.7m
retrograde	2712 Aug 10 01:13	16°♍23'08	
evening set	2712 Aug 27 15:23	10°♍37'30	
inferior conj	2712 Aug 31 11:46	8°♍16'19	-8°19'31
minimum elong	2712 Aug 31 06:24	8°♍24'40	8°19'05
min. Earth dist.	2712 Aug 31 19:48	8°♍03'48	0.28832 AU
morning rise	2712 Sep 03 21:13	6°♍10'44	
direct	2712 Sep 22 00:07	0°♍00'35	
greatest brilliancy	2712 Oct 02 21:58	2°♍10'01	-4.8m
asc. node	2712 Nov 05 04:07	26°♍09'46	
	2712 Nov 09 03:11	0°♎	
morning max el	2712 Nov 10 23:18	1°♎49'26	46°28'21
	2712 Dec 07 04:24	0°♏	
	2713 Jan 01 21:17	0°♐	
	2713 Jan 26 16:49	0°♑	
	2713 Feb 20 03:24	0°♒	
desc. node	2713 Feb 24 17:52	5°♒40'31	
	2713 Mar 16 10:32	0°♓	
	2713 Apr 09 16:59	0°♈	
	2713 May 04 00:17	0°♉	
morning set	2713 May 17 04:25	16°♉13'47	
	2713 May 28 08:57	0°♊	
asc. node	2713 Jun 17 21:00	25°♊12'23	
	2713 Jun 21 18:36	0°♋	
superior conj	2713 Jun 23 08:00	1°♋54'55	0°12'59
minimum elong	2713 Jun 23 05:19	1°♋46'38	0°12'51
behind sun begin	2713 Jun 22 15:52	1°♋05'19	
behind sun end	2713 Jun 23 18:46	2°♋27'57	
max. Earth dist.	2713 Jun 23 07:55	1°♋54'39	1.73532 AU
	2713 Jul 16 04:24	0°♌	
evening rise	2713 Jul 29 10:02	16°♌16'25	
	2713 Aug 09 13:57	0°♍	
	2713 Sep 02 23:50	0°♎	
	2713 Sep 27 11:09	0°♏	
desc. node	2713 Oct 07 10:40	12°♏11'52	
	2713 Oct 22 01:04	0°♐	
	2713 Nov 15 19:02	0°♑	
	2713 Dec 10 20:47	0°♒	
	2714 Jan 05 17:19	0°♓	
asc. node	2714 Jan 28 13:43	24°♓44'15	
evening max el	2714 Jan 29 04:37	25°♓22'14	47°05'15
	2714 Feb 02 19:36	0°♈	
greatest brilliancy	2714 Mar 10 13:41	26°♈42'02	-4.9m
retrograde	2714 Mar 20 23:02	28°♈45'07	
evening set	2714 Apr 07 09:29	22°♈50'58	
inferior conj	2714 Apr 11 01:31	20°♈34'35	7°45'53
minimum elong	2714 Apr 11 10:02	20°♈21'11	7°44'39
min. Earth dist.	2714 Apr 10 20:42	20°♈42'09	0.28109 AU
morning rise	2714 Apr 15 10:49	17°♈52'52	
direct	2714 May 02 01:17	12°♈31'36	
greatest brilliancy	2714 May 11 15:34	14°♈13'15	-4.8m
desc. node	2714 May 20 03:09	18°♈04'38	
	2714 Jun 05 21:13	0°♉	
morning max el	2714 Jun 20 02:27	12°♉48'23	45°50'38
	2714 Jul 07 03:53	0°♊	
	2714 Aug 03 14:56	0°♋	
	2714 Aug 29 15:30	0°♌	
asc. node	2714 Sep 10 06:37	13°♌45'41	
	2714 Sep 23 19:27	0°♍	
	2714 Oct 18 09:16	0°♎	
	2714 Nov 11 13:48	0°♏	
	2714 Dec 05 13:07	0°♐	
greatest brilliancy	2714 Dec 11 06:44	7°♐11'54	-3.9m
morning set	2714 Dec 15 21:20	12°♐59'10	
	2714 Dec 29 10:03	0°♑	
desc. node	2714 Dec 30 20:06	1°♑47'07	
	2715 Jan 22 06:18	0°♒	
superior conj	2715 Jan 26 08:40	5°♒09'26	-0°58'08
minimum elong	2715 Jan 25 20:42	4°♒31'45	0°57'41
max. Earth dist.	2715 Jan 27 23:38	7°♒11'57	1.71143 AU
	2715 Feb 15 03:06	0°♓	
evening rise	2715 Mar 08 09:33	26°♓38'48	
	2715 Mar 11 01:59	0°♈	
	2715 Apr 04 04:48	0°♉	
asc. node	2715 Apr 22 23:23	23°♉09'14	
	2715 Apr 28 13:21	0°♊	
	2715 May 23 05:20	0°♋	
	2715 Jun 17 07:09	0°♌	
	2715 Jul 12 23:53	0°♍	
	2715 Aug 08 19:29	0°♎	
desc. node	2715 Aug 12 12:51	4°♎00'26	
evening max el	2715 Sep 03 11:41	26°♎25'05	45°59'25
	2715 Sep 07 06:37	0°♏	
greatest brilliancy	2715 Oct 13 11:09	25°♏10'19	-4.8m
retrograde	2715 Oct 22 15:39	26°♏42'58	
evening set	2715 Nov 07 08:20	21°♏58'23	
inferior conj	2715 Nov 12 09:15	18°♏59'27	-5°06'21
minimum elong	2715 Nov 12 19:05	18°♏44'27	5°03'48
min. Earth dist.	2715 Nov 13 05:00	18°♏29'20	0.27107 AU
morning rise	2715 Nov 18 05:18	15°♏33'29	
direct	2715 Dec 03 04:55	11°♏08'32	
asc. node	2715 Dec 03 15:53	11°♏08'47	
greatest brilliancy	2715 Dec 14 03:52	13°♏25'02	-4.9m
	2716 Jan 07 16:40	0°♐	
morning max el	2716 Jan 22 23:34	14°♐36'48	46°57'56
	2716 Feb 06 12:35	0°♑	
	2716 Mar 03 24:00	0°♒	
desc. node	2716 Mar 24 05:43	23°♒49'58	
	2716 Mar 29 10:01	0°♓	
	2716 Apr 23 09:38	0°♈	
	2716 May 18 04:48	0°♉	
	2716 Jun 11 21:48	0°♊	
	2716 Jul 06 12:43	0°♋	
asc. node	2716 Jul 15 08:54	10°♋48'33	
morning set	2716 Jul 24 07:51	21°♋46'41	
	2716 Jul 31 00:40	0°♌	
	2716 Aug 24 09:06	0°♍	
max. Earth dist.	2716 Aug 26 19:24	3°♍00'05	1.73060 AU
superior conj	2716 Aug 29 17:24	6°♍36'26	1°21'16
minimum elong	2716 Aug 29 12:21	6°♍20'49	1°21'11
	2716 Sep 17 14:33	0°♎	
evening rise	2716 Oct 05 11:43	22°♎12'12	
	2716 Oct 11 18:16	0°♏	
desc. node	2716 Nov 03 22:29	28°♏48'46	

	2716 Nov 04 21:24	0°♐	
	2716 Nov 29 00:43	0°♑	
	2716 Dec 23 05:09	0°♒	
	2717 Jan 16 13:17	0°♓	
	2717 Feb 10 06:40	0°♈	
asc. node	2717 Feb 25 01:34	17°♈31'30	
	2717 Mar 07 20:10	0°♉	
	2717 Apr 04 07:09	0°♊	
evening max el	2717 Apr 10 15:54	6°♊24'38	46°02'38
	2717 May 08 20:26	0°♋	
greatest brilliancy	2717 May 18 21:35	5°♋09'51	-4.8m
retrograde	2717 May 29 22:46	7°♋22'30	
evening set	2717 Jun 13 23:38	2°♋58'47	
desc. node	2717 Jun 16 15:02	1°♋27'15	
	2717 Jun 18 23:47	30°℞♊	
inferior conj	2717 Jun 20 09:12	29°♊07'34	-0°53'25
minimum elong	2717 Jun 20 07:14	29°♊10'40	0°52'50
min. Earth dist.	2717 Jun 20 05:15	29°♊13'46	0.28856 AU
morning rise	2717 Jun 26 15:10	25°♊22'02	
direct	2717 Jul 11 23:01	20°♊52'49	
greatest brilliancy	2717 Jul 22 02:35	22°♊44'05	-4.7m
	2717 Aug 04 23:17	0°♋	
morning max el	2717 Aug 29 17:33	20°♋39'46	45°47'56
	2717 Sep 08 04:00	0°♌	
	2717 Oct 05 21:32	0°♍	
asc. node	2717 Oct 07 18:22	2°♍07'14	
	2717 Oct 31 15:39	0°♎	
	2717 Nov 25 10:32	0°♏	
	2717 Dec 19 17:23	0°♐	
	2718 Jan 12 18:31	0°♑	
desc. node	2718 Jan 27 08:01	18°♑13'55	
	2718 Feb 05 17:29	0°♒	
	2718 Mar 01 16:20	0°♓	
morning set	2718 Mar 03 01:05	1°♓42'29	
	2718 Mar 25 16:33	0°♈	
superior conj	2718 Apr 11 22:43	21°♈29'02	-1°15'39
minimum elong	2718 Apr 12 07:46	21°♈57'09	1°15'26
max. Earth dist.	2718 Apr 15 22:08	26°♈25'17	1.72413 AU
	2718 Apr 18 19:20	0°♉	
	2718 May 13 01:24	0°♊	
asc. node	2718 May 20 11:13	9°♊07'47	
evening rise	2718 May 20 12:58	9°♊13'08	
	2718 Jun 06 10:55	0°♋	
	2718 Jun 30 23:55	0°♌	
	2718 Jul 25 17:06	0°♍	
	2718 Aug 19 16:25	0°♎	
desc. node	2718 Sep 09 00:41	24°♎06'39	
	2718 Sep 14 01:10	0°♏	
	2718 Oct 10 01:28	0°♐	
	2718 Nov 06 09:52	0°♑	
evening max el	2718 Nov 15 15:02	9°♑27'31	47°03'19
	2718 Dec 08 09:48	0°♒	
greatest brilliancy	2718 Dec 26 03:05	10°♒29'24	-4.9m
asc. node	2718 Dec 31 03:53	11°♒55'02	
retrograde	2719 Jan 05 04:29	12°♒24'57	
evening set	2719 Jan 20 09:24	7°♒50'39	
min. Earth dist.	2719 Jan 25 02:08	5°♒03'29	0.26689 AU
inferior conj	2719 Jan 25 19:10	4°♒37'17	6°04'35
minimum elong	2719 Jan 25 08:36	4°♒53'32	6°02'05
morning rise	2719 Jan 30 08:05	1°♒53'47	
	2719 Feb 02 22:22	30°℞♑	
direct	2719 Feb 15 04:44	26°♑57'46	
greatest brilliancy	2719 Feb 24 12:08	28°♑35'57	-4.9m
	2719 Feb 28 01:45	0°♒	
morning max el	2719 Apr 06 03:17	28°♒57'35	46°33'13
	2719 Apr 07 04:26	0°♓	
desc. node	2719 Apr 21 17:28	15°♓02'27	
	2719 May 05 10:51	0°♈	
	2719 May 31 20:51	0°♉	
	2719 Jun 26 12:41	0°♊	
	2719 Jul 21 17:54	0°♋	
asc. node	2719 Aug 12 20:46	26°♋40'30	
	2719 Aug 15 14:30	0°♌	
	2719 Sep 09 03:11	0°♍	
morning set	2719 Oct 01 20:47	28°♍06'40	
	2719 Oct 03 09:16	0°♎	
	2719 Oct 27 10:47	0°♏	
max. Earth dist.	2719 Nov 06 02:53	12°♏06'03	1.71688 AU
superior conj	2719 Nov 08 17:52	15°♏23'15	0°52'42
minimum elong	2719 Nov 09 04:00	15°♏54'57	0°52'18
	2719 Nov 20 09:45	0°♐	
desc. node	2719 Dec 02 10:23	15°♐05'04	
	2719 Dec 14 07:36	0°♑	
evening rise	2719 Dec 19 00:53	5°♑55'25	
	2720 Jan 07 05:20	0°♒	
	2720 Jan 31 04:17	0°♓	
	2720 Feb 24 06:48	0°♈	
	2720 Mar 19 16:27	0°♉	
asc. node	2720 Mar 24 13:28	5°♉55'47	
	2720 Apr 13 14:11	0°♊	
	2720 May 09 07:57	0°♋	
	2720 Jun 05 16:04	0°♌	
evening max el	2720 Jun 20 01:42	14°♌28'41	45°25'32
	2720 Jul 07 17:14	0°♍	
desc. node	2720 Jul 14 03:06	4°♍41'59	
greatest brilliancy	2720 Jul 28 12:07	12°♍19'58	-4.7m
retrograde	2720 Aug 07 17:10	14°♍12'52	
evening set	2720 Aug 25 04:06	8°♍30'44	
inferior conj	2720 Aug 29 03:31	6°♍05'10	-8°13'20
minimum elong	2720 Aug 28 21:31	6°♍14'29	8°12'48
min. Earth dist.	2720 Aug 29 10:27	5°♍54'24	0.28865 AU
morning rise	2720 Sep 01 14:45	3°♍57'05	
	2720 Sep 09 05:06	30°℞♌	
direct	2720 Sep 19 16:12	27°♌48'56	
greatest brilliancy	2720 Sep 30 13:39	29°♌58'12	-4.8m
	2720 Sep 30 15:32	0°♍	
asc. node	2720 Nov 04 06:10	25°♍17'32	
morning max el	2720 Nov 08 15:00	29°♍34'30	46°26'47
	2720 Nov 09 01:12	0°♎	
	2720 Dec 06 20:12	0°♏	
	2721 Jan 01 10:54	0°♐	
	2721 Jan 26 05:21	0°♑	
	2721 Feb 19 15:18	0°♒	
desc. node	2721 Feb 23 19:49	5°♒10'06	
	2721 Mar 15 21:59	0°♓	
	2721 Apr 09 04:05	0°♈	
	2721 May 03 11:08	0°♉	
morning set	2721 May 14 20:58	14°♉03'45	
	2721 May 27 19:39	0°♊	
asc. node	2721 Jun 16 23:08	24°♊46'12	
superior conj	2721 Jun 21 01:48	29°♊49'25	0°09'48
minimum elong	2721 Jun 20 23:45	29°♊43'07	0°09'42
behind sun begin	2721 Jun 20 05:34	28°♊47'13	
behind sun end	2721 Jun 21 17:56	0°♋39'01	
max. Earth dist.	2721 Jun 21 05:48	0°♋01'43	1.73525 AU
	2721 Jun 21 05:15	0°♋	
	2721 Jul 15 15:05	0°♌	
evening rise	2721 Jul 27 04:54	14°♌13'55	
	2721 Aug 09 00:46	0°♍	
	2721 Sep 02 10:53	0°♎	
	2721 Sep 26 22:35	0°♏	

desc. node	2721 Oct 06 12:36	11°♏42'12	
	2721 Oct 21 13:05	0°♐	
	2721 Nov 15 07:54	0°♑	
	2721 Dec 10 11:00	0°♒	
	2722 Jan 05 10:08	0°♓	
evening max el	2722 Jan 26 20:04	23°♓03'30	47°06'47
asc. node	2722 Jan 27 15:47	23°♓53'32	
	2722 Feb 02 20:02	0°♈	
greatest brilliancy	2722 Mar 08 04:32	24°♈23'28	-4.9m
retrograde	2722 Mar 18 14:54	26°♈27'22	
evening set	2722 Apr 05 03:10	20°♈29'06	
inferior conj	2722 Apr 08 16:23	18°♈17'01	7°55'59
minimum elong	2722 Apr 09 00:28	18°♈04'20	7°54'55
min. Earth dist.	2722 Apr 08 10:32	18°♈26'12	0.28071 AU
morning rise	2722 Apr 12 22:01	15°♈41'01	
direct	2722 Apr 29 16:03	10°♈14'48	
greatest brilliancy	2722 May 09 04:28	11°♈55'26	-4.8m
desc. node	2722 May 19 05:10	16°♈39'55	
	2722 Jun 06 03:37	0°♉	
morning max el	2722 Jun 17 18:27	10°♉37'15	45°51'34
	2722 Jul 06 21:26	0°♊	
	2722 Aug 03 05:01	0°♋	
	2722 Aug 29 04:03	0°♌	
asc. node	2722 Sep 09 08:32	13°♌15'16	
	2722 Sep 23 07:14	0°♍	
	2722 Oct 17 20:38	0°♎	
	2722 Nov 11 00:58	0°♏	
	2722 Dec 05 00:12	0°♐	
greatest brilliancy	2722 Dec 10 16:38	7°♐08'14	-3.9m
morning set	2722 Dec 13 08:44	10°♐29'30	
	2722 Dec 28 21:07	0°♑	
desc. node	2722 Dec 29 22:13	1°♑18'56	
	2723 Jan 21 17:21	0°♒	
superior conj	2723 Jan 23 18:20	2°♒34'04	-0°55'05
minimum elong	2723 Jan 23 06:33	1°♒57'00	0°54'38
max. Earth dist.	2723 Jan 25 08:29	4°♒34'02	1.71129 AU
	2723 Feb 14 14:09	0°♓	
evening rise	2723 Mar 05 20:29	24°♓08'21	
	2723 Mar 10 13:04	0°♈	
	2723 Apr 03 15:57	0°♉	
asc. node	2723 Apr 22 01:25	22°♉40'53	
	2723 Apr 28 00:40	0°♊	
	2723 May 22 17:00	0°♋	
	2723 Jun 16 19:31	0°♌	
	2723 Jul 12 13:39	0°♍	
	2723 Aug 08 12:17	0°♎	
desc. node	2723 Aug 11 14:47	3°♎19'12	
evening max el	2723 Sep 01 01:56	24°♎07'42	45°57'08
	2723 Sep 07 08:39	0°♏	
greatest brilliancy	2723 Oct 11 00:08	22°♏47'49	-4.8m
retrograde	2723 Oct 20 03:57	24°♏19'36	
evening set	2723 Nov 05 00:23	19°♏30'54	
inferior conj	2723 Nov 09 22:21	16°♏35'42	-5°24'53
minimum elong	2723 Nov 10 08:27	16°♏20'15	5°22'21
min. Earth dist.	2723 Nov 10 18:45	16°♏04'30	0.27168 AU
morning rise	2723 Nov 15 16:00	13°♏12'31	
direct	2723 Nov 30 18:52	8°♏44'00	
asc. node	2723 Dec 02 18:00	8°♏48'39	
greatest brilliancy	2723 Dec 11 18:08	11°♏00'24	-4.9m
	2724 Jan 07 23:14	0°♐	
morning max el	2724 Jan 20 12:42	12°♐10'14	46°57'41
	2724 Feb 06 07:01	0°♑	
	2724 Mar 03 14:56	0°♒	
desc. node	2724 Mar 23 07:42	23°♒15'30	
	2724 Mar 28 23:19	0°♓	
	2724 Apr 22 21:59	0°♈	
	2724 May 17 16:33	0°♉	
	2724 Jun 11 09:07	0°♊	
	2724 Jul 05 23:44	0°♋	
asc. node	2724 Jul 14 10:58	10°♋21'22	
morning set	2724 Jul 22 01:54	19°♋41'34	
	2724 Jul 30 11:31	0°♌	
	2724 Aug 23 19:56	0°♍	
max. Earth dist.	2724 Aug 24 12:48	0°♍52'07	1.73100 AU
superior conj	2724 Aug 27 11:26	4°♍30'18	1°20'16
minimum elong	2724 Aug 27 05:50	4°♍13'01	1°20'11
	2724 Sep 17 01:29	0°♎	
evening rise	2724 Oct 03 03:28	19°♎57'39	
	2724 Oct 11 05:23	0°♏	
desc. node	2724 Nov 03 00:35	28°♏19'59	
	2724 Nov 04 08:47	0°♐	
	2724 Nov 28 12:22	0°♑	
	2724 Dec 22 17:10	0°♒	
	2725 Jan 16 01:50	0°♓	
	2725 Feb 09 20:09	0°♈	
asc. node	2725 Feb 24 03:30	16°♈55'16	
	2725 Mar 07 11:30	0°♉	
	2725 Apr 04 03:26	0°♊	
evening max el	2725 Apr 08 06:39	4°♊08'19	46°04'45
	2725 May 10 05:16	0°♋	
greatest brilliancy	2725 May 16 15:03	3°♋00'36	-4.8m
retrograde	2725 May 27 14:40	5°♋12'19	
evening set	2725 Jun 11 16:24	0°♋48'09	
	2725 Jun 13 02:28	30°℞♊	
desc. node	2725 Jun 15 17:11	28°♊25'42	
inferior conj	2725 Jun 18 01:31	26°♊57'37	-0°33'27
minimum elong	2725 Jun 18 00:17	26°♊59'33	0°33'06
min. Earth dist.	2725 Jun 17 22:07	27°♊02'57	0.28835 AU
morning rise	2725 Jun 24 08:25	23°♊10'27	
direct	2725 Jul 09 14:42	18°♊43'09	
greatest brilliancy	2725 Jul 19 18:39	20°♊34'21	-4.7m
	2725 Aug 05 17:50	0°♋	
morning max el	2725 Aug 27 07:55	18°♋25'30	45°47'15
	2725 Sep 07 23:03	0°♌	
	2725 Oct 05 12:14	0°♍	
asc. node	2725 Oct 06 20:30	1°♍31'48	
	2725 Oct 31 04:43	0°♎	
	2725 Nov 24 22:49	0°♏	
	2725 Dec 19 05:15	0°♐	
	2726 Jan 12 06:08	0°♑	
desc. node	2726 Jan 26 10:01	17°♑44'08	
	2726 Feb 05 04:54	0°♒	
morning set	2726 Feb 28 11:41	29°♒10'13	
	2726 Mar 01 03:35	0°♓	
	2726 Mar 25 03:41	0°♈	
superior conj	2726 Apr 09 12:19	19°♈07'44	-1°17'20
minimum elong	2726 Apr 09 20:55	19°♈34'27	1°17'09
max. Earth dist.	2726 Apr 13 12:44	24°♈07'15	1.72356 AU
	2726 Apr 18 06:23	0°♉	
	2726 May 12 12:26	0°♊	
evening rise	2726 May 18 04:55	7°♊00'26	
asc. node	2726 May 19 13:21	8°♊40'17	
	2726 Jun 05 22:02	0°♋	
	2726 Jun 30 11:15	0°♌	
	2726 Jul 25 04:51	0°♍	
	2726 Aug 19 04:51	0°♎	
desc. node	2726 Sep 08 02:41	23°♎33'28	
	2726 Sep 13 14:46	0°♏	
	2726 Oct 09 17:14	0°♐	
	2726 Nov 06 06:40	0°♑	
evening max el	2726 Nov 13 03:24	6°♑59'30	47°01'33

	2726 Dec 09 06:52	0°♒	
greatest brilliancy	2726 Dec 23 16:30	8°♒00'20	-4.9m
asc. node	2726 Dec 30 05:56	9°♒40'57	
retrograde	2727 Jan 02 16:48	9°♒55'17	
evening set	2727 Jan 17 18:40	5°♒25'29	
min. Earth dist.	2727 Jan 22 15:29	2°♒33'03	0.26655 AU
inferior conj	2727 Jan 23 07:33	2°♒08'23	5°46'18
minimum elong	2727 Jan 22 21:08	2°♒24'24	5°43'43
	2727 Jan 26 20:25	30°♑℞	
morning rise	2727 Jan 27 23:49	29°♑20'27	
direct	2727 Feb 12 16:28	24°♑28'58	
greatest brilliancy	2727 Feb 22 01:59	26°♑09'03	-4.9m
	2727 Mar 02 10:24	0°♒	
morning max el	2727 Apr 03 16:13	26°♒32'33	46°34'53
	2727 Apr 07 03:07	0°♓	
desc. node	2727 Apr 20 19:35	14°♓18'14	
	2727 May 05 03:10	0°♈	
	2727 May 31 10:41	0°♉	
	2727 Jun 26 01:13	0°♊	
	2727 Jul 21 05:42	0°♋	
asc. node	2727 Aug 11 22:41	26°♋11'41	
	2727 Aug 15 01:52	0°♌	
	2727 Sep 08 14:19	0°♍	
morning set	2727 Sep 29 13:02	25°♍53'50	
	2727 Oct 02 20:18	0°♎	
	2727 Oct 26 21:49	0°♏	
max. Earth dist.	2727 Nov 03 18:15	9°♏49'16	1.71732 AU
superior conj	2727 Nov 06 07:35	13°♏01'13	0°55'30
minimum elong	2727 Nov 06 17:49	13°♏33'17	0°55'07
	2727 Nov 19 20:51	0°♐	
desc. node	2727 Dec 01 12:29	14°♐36'37	
	2727 Dec 13 18:50	0°♑	
evening rise	2727 Dec 16 12:06	3°♑24'46	
	2728 Jan 06 16:43	0°♒	
	2728 Jan 30 15:50	0°♓	
	2728 Feb 23 18:34	0°♈	
	2728 Mar 19 04:36	0°♉	
asc. node	2728 Mar 23 15:32	5°♉24'52	
	2728 Apr 13 03:06	0°♊	
	2728 May 08 22:27	0°♋	
	2728 Jun 05 10:31	0°♌	
evening max el	2728 Jun 17 17:31	12°♌17'29	45°25'48
	2728 Jul 08 05:56	0°♍	
desc. node	2728 Jul 13 05:03	3°♍28'15	
greatest brilliancy	2728 Jul 26 01:29	10°♍06'38	-4.7m
retrograde	2728 Aug 05 09:15	12°♍01'37	
evening set	2728 Aug 22 16:43	6°♍23'24	
inferior conj	2728 Aug 26 19:16	3°♍53'07	-8°06'27
minimum elong	2728 Aug 26 12:40	4°♍03'23	8°05'47
min. Earth dist.	2728 Aug 27 00:50	3°♍44'28	0.28893 AU
morning rise	2728 Aug 30 08:28	1°♍42'12	
	2728 Sep 02 07:37	30°♑℞	
direct	2728 Sep 17 08:42	25°♌36'36	
greatest brilliancy	2728 Sep 28 04:37	27°♌44'52	-4.8m
	2728 Oct 03 05:48	0°♍	
asc. node	2728 Nov 03 08:15	24°♍25'37	
morning max el	2728 Nov 06 07:01	27°♍19'52	46°25'17
	2728 Nov 08 22:40	0°♎	
	2728 Dec 06 11:57	0°♏	
	2729 Jan 01 00:35	0°♐	
	2729 Jan 25 18:02	0°♑	
	2729 Feb 19 03:24	0°♒	
desc. node	2729 Feb 22 21:49	4°♒39'10	
	2729 Mar 15 09:41	0°♓	
	2729 Apr 08 15:28	0°♈	
	2729 May 02 22:15	0°♉	
morning set	2729 May 12 13:09	11°♉51'42	
	2729 May 27 06:36	0°♊	
asc. node	2729 Jun 16 01:08	24°♊18'54	
superior conj	2729 Jun 18 19:16	27°♊42'12	0°06'36
minimum elong	2729 Jun 18 17:53	27°♊37'56	0°06'31
behind sun begin	2729 Jun 17 20:55	26°♊33'28	
behind sun end	2729 Jun 19 14:51	28°♊42'25	
max. Earth dist.	2729 Jun 19 04:40	28°♊11'05	1.73510 AU
	2729 Jun 20 16:06	0°♋	
	2729 Jul 15 01:57	0°♌	
evening rise	2729 Jul 24 23:38	12°♌10'28	
	2729 Aug 08 11:46	0°♍	
	2729 Sep 01 22:09	0°♎	
	2729 Sep 26 10:16	0°♏	
desc. node	2729 Oct 05 14:44	11°♏12'31	
	2729 Oct 21 01:20	0°♐	
	2729 Nov 14 20:59	0°♑	
	2729 Dec 10 01:26	0°♒	
	2730 Jan 05 03:19	0°♓	
evening max el	2730 Jan 24 11:44	20°♓45'01	47°08'05
asc. node	2730 Jan 26 17:41	23°♓01'18	
	2730 Feb 02 21:48	0°♈	
greatest brilliancy	2730 Mar 05 19:33	22°♈04'39	-4.9m
retrograde	2730 Mar 16 06:34	24°♈08'44	
evening set	2730 Apr 02 20:42	18°♈06'52	
inferior conj	2730 Apr 06 07:11	15°♈58'46	8°05'24
minimum elong	2730 Apr 06 14:45	15°♈46'54	8°04'29
min. Earth dist.	2730 Apr 06 00:15	16°♈09'39	0.28033 AU
morning rise	2730 Apr 10 09:05	13°♈28'21	
direct	2730 Apr 27 06:59	7°♈57'28	
greatest brilliancy	2730 May 06 17:12	9°♈36'39	-4.8m
desc. node	2730 May 18 07:17	15°♈17'34	
	2730 Jun 06 08:13	0°♉	
morning max el	2730 Jun 15 09:48	8°♉24'01	45°52'28
	2730 Jul 06 14:46	0°♊	
	2730 Aug 02 19:03	0°♋	
	2730 Aug 28 16:35	0°♌	
asc. node	2730 Sep 08 10:38	12°♌45'23	
	2730 Sep 22 18:59	0°♍	
	2730 Oct 17 07:59	0°♎	
	2730 Nov 10 12:08	0°♏	
	2730 Dec 04 11:18	0°♐	
greatest brilliancy	2730 Dec 10 00:35	6°♐58'23	-3.9m
morning set	2730 Dec 10 20:27	8°♐00'47	
	2730 Dec 28 08:11	0°♑	
desc. node	2730 Dec 29 00:11	0°♑50'22	
superior conj	2731 Jan 21 04:23	0°♒00'04	-0°51'56
minimum elong	2731 Jan 20 16:54	29°♑23'57	0°51'29
	2731 Jan 21 04:22	0°♒	
max. Earth dist.	2731 Jan 22 15:29	1°♒50'29	1.71110 AU
	2731 Feb 14 01:08	0°♓	
evening rise	2731 Mar 03 07:37	21°♓38'40	
	2731 Mar 10 00:03	0°♈	
	2731 Apr 03 03:02	0°♉	
asc. node	2731 Apr 21 03:32	22°♉12'59	
	2731 Apr 27 11:57	0°♊	
	2731 May 22 04:39	0°♋	
	2731 Jun 16 07:55	0°♌	
	2731 Jul 12 03:29	0°♍	
	2731 Aug 08 05:19	0°♎	
desc. node	2731 Aug 10 16:50	2°♎38'05	
evening max el	2731 Aug 29 15:14	21°♎48'29	45°54'58
	2731 Sep 07 12:03	0°♏	
greatest brilliancy	2731 Oct 08 13:41	20°♏26'43	-4.8m
retrograde	2731 Oct 17 16:03	21°♏57'20	

evening set	2731 Nov 02	16:34	17°♏04'13	
inferior conj	2731 Nov 07	11:35	14°♏12'59	-5°42'34
minimum elong	2731 Nov 07	21:53	13°♏57'12	5°40'05
min. Earth dist.	2731 Nov 08	08:54	13°♏40'20	0.27232 AU
morning rise	2731 Nov 13	02:38	10°♏52'49	
direct	2731 Nov 28	08:24	6°♏20'11	
asc. node	2731 Dec 01	20:02	6°♏34'35	
greatest brilliancy	2731 Dec 09	09:04	8°♏37'14	-4.9m
	2732 Jan 08	03:36	0°♐	
morning max el	2732 Jan 18	01:28	9°♐43'03	46°57'33
	2732 Feb 06	00:51	0°♑	
	2732 Mar 03	05:29	0°♒	
desc. node	2732 Mar 22	09:50	22°♒42'20	
	2732 Mar 28	12:16	0°♓	
	2732 Apr 22	10:02	0°♈	
	2732 May 17	04:00	0°♉	
	2732 Jun 10	20:11	0°♊	
	2732 Jul 05	10:32	0°♋	
asc. node	2732 Jul 13	12:55	9°♋54'26	
morning set	2732 Jul 19	19:53	17°♋36'46	
	2732 Jul 29	22:10	0°♌	
max. Earth dist.	2732 Aug 22	06:48	28°♌46'39	1.73140 AU
	2732 Aug 23	06:33	0°♍	
superior conj	2732 Aug 25	05:27	2°♍24'50	1°19'09
minimum elong	2732 Aug 24	23:21	2°♍06'01	1°19'04
	2732 Sep 16	12:11	0°♎	
evening rise	2732 Sep 30	19:20	17°♎44'24	
	2732 Oct 10	16:16	0°♏	
desc. node	2732 Nov 02	02:38	27°♏51'50	
	2732 Nov 03	19:55	0°♐	
	2732 Nov 27	23:49	0°♑	
	2732 Dec 22	05:00	0°♒	
	2733 Jan 15	14:13	0°♓	
	2733 Feb 09	09:26	0°♈	
asc. node	2733 Feb 23	05:39	16°♈20'21	
	2733 Mar 07	02:41	0°♉	
	2733 Apr 03	23:54	0°♊	
evening max el	2733 Apr 05	20:49	1°♊51'41	46°07'01
	2733 May 12	05:24	0°♋	
greatest brilliancy	2733 May 14	08:17	0°♋52'30	-4.8m
retrograde	2733 May 25	06:59	3°♋03'58	
	2733 Jun 06	18:14	30°℞♊	
evening set	2733 Jun 09	09:29	28°♊38'45	
desc. node	2733 Jun 14	19:06	25°♊25'15	
inferior conj	2733 Jun 15	18:01	24°♊49'16	-0°13'38
minimum elong	2733 Jun 15	17:31	24°♊50'03	0°13'28
transit middle	2733 Jun 15	17:31	24°♊50'03	0°13'28
transit begin	2733 Jun 15	15:15	24°♊53'37	
transit end	2733 Jun 15	19:47	24°♊46'29	
min. Earth dist.	2733 Jun 15	15:09	24°♊53'46	0.28817 AU
morning rise	2733 Jun 22	01:45	21°♊00'50	
direct	2733 Jul 07	06:18	16°♊34'54	
greatest brilliancy	2733 Jul 17	11:15	18°♊26'37	-4.7m
	2733 Aug 06	07:04	0°♋	
morning max el	2733 Aug 24	23:11	16°♋14'23	45°46'35
	2733 Sep 07	17:13	0°♌	
	2733 Oct 05	02:27	0°♍	
asc. node	2733 Oct 05	22:34	0°♍57'26	
	2733 Oct 30	17:21	0°♎	
	2733 Nov 24	10:43	0°♏	
	2733 Dec 18	16:44	0°♐	
	2734 Jan 11	17:22	0°♑	
desc. node	2734 Jan 25	11:59	17°♑15'20	
	2734 Feb 04	15:58	0°♒	
morning set	2734 Feb 25	22:09	26°♒38'24	
	2734 Feb 28	14:32	0°♓	
	2734 Mar 24	14:30	0°♈	
superior conj	2734 Apr 07	01:55	16°♈47'29	-1°18'54
minimum elong	2734 Apr 07	10:00	17°♈12'38	1°18'44
max. Earth dist.	2734 Apr 11	01:10	21°♈43'32	1.72295 AU
	2734 Apr 17	17:05	0°♉	
	2734 May 11	23:05	0°♊	
evening rise	2734 May 15	20:59	4°♊49'20	
asc. node	2734 May 18	15:21	8°♊13'38	
	2734 Jun 05	08:44	0°♋	
	2734 Jun 29	22:11	0°♌	
	2734 Jul 24	16:13	0°♍	
	2734 Aug 18	16:57	0°♎	
desc. node	2734 Sep 07	04:47	23°♎01'33	
	2734 Sep 13	04:07	0°♏	
	2734 Oct 09	08:53	0°♐	
	2734 Nov 06	03:44	0°♑	
evening max el	2734 Nov 10	16:28	4°♑34'44	46°59'53
	2734 Dec 10	10:47	0°♒	
greatest brilliancy	2734 Dec 21	05:22	5°♒31'56	-4.9m
asc. node	2734 Dec 29	07:52	7°♒22'33	
retrograde	2734 Dec 31	05:42	7°♒26'59	
evening set	2735 Jan 15	04:10	3°♒01'07	
min. Earth dist.	2735 Jan 20	04:32	0°♒04'07	0.26626 AU
	2735 Jan 20	07:14	30°℞♑	
inferior conj	2735 Jan 20	19:56	29°♑40'33	5°27'21
minimum elong	2735 Jan 20	09:43	29°♑56'12	5°24'43
morning rise	2735 Jan 25	15:31	26°♑48'24	
direct	2735 Feb 10	04:41	22°♑01'16	
greatest brilliancy	2735 Feb 19	15:23	23°♑42'45	-4.9m
	2735 Mar 03	22:28	0°♒	
morning max el	2735 Apr 01	06:16	24°♒11'21	46°36'30
	2735 Apr 07	00:31	0°♓	
desc. node	2735 Apr 19	21:35	13°♓35'20	
	2735 May 04	18:49	0°♈	
	2735 May 30	23:58	0°♉	
	2735 Jun 25	13:16	0°♊	
	2735 Jul 20	17:01	0°♋	
asc. node	2735 Aug 11	00:49	25°♋44'55	
	2735 Aug 14	12:46	0°♌	
	2735 Sep 08	01:02	0°♍	
morning set	2735 Sep 27	05:27	23°♍42'47	
	2735 Oct 02	06:58	0°♎	
	2735 Oct 26	08:30	0°♏	
max. Earth dist.	2735 Nov 01	08:00	7°♏28'36	1.71778 AU
superior conj	2735 Nov 03	21:24	10°♏40'40	0°58'12
minimum elong	2735 Nov 04	07:41	11°♏12'52	0°57'49
	2735 Nov 19	07:37	0°♐	
desc. node	2735 Nov 30	14:27	14°♐08'49	
	2735 Dec 13	05:43	0°♑	
evening rise	2735 Dec 13	23:16	0°♑55'04	
	2736 Jan 06	03:44	0°♒	
	2736 Jan 30	03:01	0°♓	
	2736 Feb 23	06:00	0°♈	
	2736 Mar 18	16:27	0°♉	
asc. node	2736 Mar 22	17:37	4°♉54'55	
	2736 Apr 12	15:45	0°♊	
	2736 May 08	12:45	0°♋	
	2736 Jun 05	04:59	0°♌	
evening max el	2736 Jun 15	10:03	10°♌09'20	45°26'14
	2736 Jul 08	22:03	0°♍	
desc. node	2736 Jul 12	07:05	2°♍14'01	
greatest brilliancy	2736 Jul 23	15:24	7°♍55'45	-4.7m
retrograde	2736 Aug 03	01:20	9°♍52'10	
evening set	2736 Aug 20	05:31	4°♍18'16	
inferior conj	2736 Aug 24	11:12	1°♍43'03	-7°59'00

minimum elong	2736 Aug 24 04:02	1°♍54'12	7°58'12
min. Earth dist.	2736 Aug 24 15:23	1°♍36'31	0.28918 AU
	2736 Aug 27 05:53	30°℞♌	
morning rise	2736 Aug 28 02:27	29°♌28'59	
direct	2736 Sep 15 01:31	23°♌26'29	
greatest brilliancy	2736 Sep 25 19:13	25°♌32'49	-4.8m
	2736 Oct 04 19:37	0°♍	
asc. node	2736 Nov 02 10:14	23°♍35'34	
morning max el	2736 Nov 03 22:47	25°♍05'58	46°23'31
	2736 Nov 08 18:59	0°♎	
	2736 Dec 06 03:11	0°♏	
	2736 Dec 31 13:55	0°♐	
	2737 Jan 25 06:25	0°♑	
	2737 Feb 18 15:11	0°♒	
desc. node	2737 Feb 22 00:00	4°♒09'45	
	2737 Mar 14 21:03	0°♓	
	2737 Apr 08 02:31	0°♈	
	2737 May 02 09:05	0°♉	
morning set	2737 May 10 05:08	9°♉39'51	
	2737 May 26 17:17	0°♊	
asc. node	2737 Jun 15 03:08	23°♊52'28	
superior conj	2737 Jun 16 12:41	25°♊35'36	0°03'22
minimum elong	2737 Jun 16 11:58	25°♊33'25	0°03'19
behind sun begin	2737 Jun 15 13:33	24°♊24'29	
behind sun end	2737 Jun 17 10:24	26°♊42'22	
max. Earth dist.	2737 Jun 17 03:10	26°♊20'09	1.73490 AU
	2737 Jun 20 02:42	0°♋	
	2737 Jul 14 12:32	0°♌	
evening rise	2737 Jul 22 18:27	10°♌08'10	
	2737 Aug 07 22:28	0°♍	
	2737 Sep 01 09:06	0°♎	
	2737 Sep 25 21:39	0°♏	
desc. node	2737 Oct 04 16:47	10°♏43'29	
	2737 Oct 20 13:21	0°♐	
	2737 Nov 14 09:55	0°♑	
	2737 Dec 09 15:50	0°♒	
	2738 Jan 04 20:42	0°♓	
evening max el	2738 Jan 22 03:03	18°♓25'48	47°09'17
asc. node	2738 Jan 25 19:51	22°♓09'02	
	2738 Feb 03 00:55	0°♈	
greatest brilliancy	2738 Mar 03 11:07	19°♈46'30	-4.9m
retrograde	2738 Mar 13 21:42	21°♈49'53	
evening set	2738 Mar 31 14:00	15°♈44'52	
inferior conj	2738 Apr 03 21:52	13°♈40'32	8°14'09
minimum elong	2738 Apr 04 04:51	13°♈29'33	8°13'22
min. Earth dist.	2738 Apr 03 14:04	13°♈52'48	0.27991 AU
morning rise	2738 Apr 07 20:00	11°♈15'35	
direct	2738 Apr 24 21:33	5°♈40'15	
greatest brilliancy	2738 May 04 06:00	7°♈17'59	-4.8m
desc. node	2738 May 17 09:17	13°♈57'54	
	2738 Jun 06 10:57	0°♉	
morning max el	2738 Jun 13 00:12	6°♉08'41	45°53'25
	2738 Jul 06 07:35	0°♊	
	2738 Aug 02 08:45	0°♋	
	2738 Aug 28 04:51	0°♌	
asc. node	2738 Sep 07 12:43	12°♌16'05	
	2738 Sep 22 06:30	0°♍	
	2738 Oct 16 19:07	0°♎	
	2738 Nov 09 23:07	0°♏	
	2738 Dec 03 22:15	0°♐	
morning set	2738 Dec 08 08:20	5°♐33'03	
	2738 Dec 27 19:07	0°♑	
desc. node	2738 Dec 28 02:15	0°♑22'26	
superior conj	2739 Jan 18 14:13	27°♑25'36	-0°48'40
minimum elong	2739 Jan 18 03:07	26°♑50'44	0°48'12
max. Earth dist.	2739 Jan 19 18:39	28°♑55'03	1.71100 AU
	2739 Jan 20 15:18	0°♒	
	2739 Feb 13 12:05	0°♓	
evening rise	2739 Feb 28 18:08	19°♓07'03	
	2739 Mar 09 11:02	0°♈	
	2739 Apr 02 14:06	0°♉	
asc. node	2739 Apr 20 05:29	21°♉44'39	
	2739 Apr 26 23:13	0°♊	
	2739 May 21 16:20	0°♋	
	2739 Jun 15 20:22	0°♌	
	2739 Jul 11 17:29	0°♍	
	2739 Aug 07 22:42	0°♎	
desc. node	2739 Aug 09 19:00	1°♎56'51	
evening max el	2739 Aug 27 04:02	19°♎28'26	45°53'00
	2739 Sep 07 17:07	0°♏	
greatest brilliancy	2739 Oct 06 03:23	18°♏06'39	-4.8m
retrograde	2739 Oct 15 04:23	19°♏36'26	
evening set	2739 Oct 31 08:56	14°♏38'31	
inferior conj	2739 Nov 05 01:04	11°♏51'30	-5°59'25
minimum elong	2739 Nov 05 11:28	11°♏35'32	5°57'01
min. Earth dist.	2739 Nov 05 23:18	11°♏17'25	0.27297 AU
morning rise	2739 Nov 10 13:22	8°♏34'46	
direct	2739 Nov 25 21:53	3°♏57'23	
asc. node	2739 Nov 30 22:00	4°♏26'44	
greatest brilliancy	2739 Dec 07 00:30	6°♏15'44	-4.9m
	2740 Jan 08 06:07	0°♐	
morning max el	2740 Jan 15 14:37	7°♐17'09	46°57'13
	2740 Feb 05 18:15	0°♑	
	2740 Mar 02 19:56	0°♒	
desc. node	2740 Mar 21 11:50	22°♒08'34	
	2740 Mar 28 01:16	0°♓	
	2740 Apr 21 22:10	0°♈	
	2740 May 16 15:34	0°♉	
	2740 Jun 10 07:20	0°♊	
	2740 Jul 04 21:25	0°♋	
asc. node	2740 Jul 12 15:02	9°♋27'43	
morning set	2740 Jul 17 13:37	15°♋30'54	
	2740 Jul 29 08:55	0°♌	
max. Earth dist.	2740 Aug 20 02:10	26°♌45'04	1.73178 AU
superior conj	2740 Aug 22 23:25	0°♍18'54	1°17'57
minimum elong	2740 Aug 22 16:52	29°♌58'38	1°17'49
	2740 Aug 22 17:18	0°♍	
	2740 Sep 15 23:02	0°♎	
evening rise	2740 Sep 28 11:30	15°♎31'47	
	2740 Oct 10 03:16	0°♏	
desc. node	2740 Nov 01 04:37	27°♏23'15	
	2740 Nov 03 07:07	0°♐	
	2740 Nov 27 11:18	0°♑	
	2740 Dec 21 16:54	0°♒	
	2741 Jan 15 02:43	0°♓	
	2741 Feb 08 22:58	0°♈	
asc. node	2741 Feb 22 07:40	15°♈44'16	
	2741 Mar 06 18:18	0°♉	
evening max el	2741 Apr 03 11:11	29°♉34'38	46°09'16
	2741 Apr 03 21:28	0°♊	
greatest brilliancy	2741 May 12 00:53	28°♊42'09	-4.8m
	2741 May 16 02:10	0°♋	
retrograde	2741 May 22 23:28	0°♋53'58	
	2741 May 29 15:57	30°℞♊	
evening set	2741 Jun 07 02:26	26°♊27'18	
inferior conj	2741 Jun 13 10:15	22°♊39'09	0°06'30
minimum elong	2741 Jun 13 10:30	22°♊38'46	0°06'26
transit middle	2741 Jun 13 10:30	22°♊38'46	0°06'26
transit begin	2741 Jun 13 06:46	22°♊44'37	
transit end	2741 Jun 13 14:13	22°♊32'55	
min. Earth dist.	2741 Jun 13 07:45	22°♊43'05	0.28800 AU

desc. node	2741 Jun 13 21:11	22°♊22'00	
morning rise	2741 Jun 19 18:43	18°♊49'51	
direct	2741 Jul 04 21:44	14°♊24'48	
greatest brilliancy	2741 Jul 15 03:25	16°♊17'10	-4.7m
	2741 Aug 06 17:23	0°♋	
morning max el	2741 Aug 22 15:06	14°♋04'04	45°46'01
	2741 Sep 07 11:16	0°♌	
	2741 Oct 04 16:47	0°♍	
asc. node	2741 Oct 05 00:31	0°♍22'09	
	2741 Oct 30 06:10	0°♎	
	2741 Nov 23 22:46	0°♏	
	2741 Dec 18 04:21	0°♐	
	2742 Jan 11 04:43	0°♑	
desc. node	2742 Jan 24 14:10	16°♑46'51	
	2742 Feb 04 03:10	0°♒	
morning set	2742 Feb 23 08:47	24°♒06'37	
	2742 Feb 28 01:37	0°♓	
	2742 Mar 24 01:30	0°♈	
superior conj	2742 Apr 04 15:20	14°♈25'48	-1°20'19
minimum elong	2742 Apr 04 22:49	14°♈49'05	1°20'11
max. Earth dist.	2742 Apr 08 12:50	19°♈16'37	1.72244 AU
	2742 Apr 17 04:01	0°♉	
	2742 May 11 10:01	0°♊	
evening rise	2742 May 13 12:40	2°♊36'03	
asc. node	2742 May 17 17:20	7°♊46'02	
	2742 Jun 04 19:47	0°♋	
	2742 Jun 29 09:28	0°♌	
	2742 Jul 24 03:58	0°♍	
	2742 Aug 18 05:28	0°♎	
desc. node	2742 Sep 06 06:48	22°♎28'10	
	2742 Sep 12 17:56	0°♏	
	2742 Oct 09 01:09	0°♐	
	2742 Nov 06 01:58	0°♑	
evening max el	2742 Nov 08 06:40	2°♑12'04	46°58'15
	2742 Dec 12 03:11	0°♒	
greatest brilliancy	2742 Dec 18 18:05	3°♒02'52	-4.9m
asc. node	2742 Dec 28 10:02	4°♒57'59	
retrograde	2742 Dec 28 19:03	4°♒58'09	
evening set	2743 Jan 12 14:03	0°♒36'08	
	2743 Jan 13 15:59	30°℞♑	
min. Earth dist.	2743 Jan 17 17:30	27°♑35'00	0.26593 AU
inferior conj	2743 Jan 18 08:22	27°♑12'17	5°07'43
minimum elong	2743 Jan 17 22:28	27°♑27'24	5°05'05
morning rise	2743 Jan 23 07:11	24°♑16'02	
direct	2743 Feb 07 17:26	19°♑33'25	
greatest brilliancy	2743 Feb 17 04:17	21°♑15'35	-4.9m
	2743 Mar 05 00:09	0°♒	
morning max el	2743 Mar 29 20:37	21°♒50'29	46°37'56
	2743 Apr 06 21:19	0°♓	
desc. node	2743 Apr 18 23:38	12°♓52'33	
	2743 May 04 10:26	0°♈	
	2743 May 30 13:27	0°♉	
	2743 Jun 25 01:36	0°♊	
	2743 Jul 20 04:41	0°♋	
asc. node	2743 Aug 10 02:53	25°♋16'47	
	2743 Aug 14 00:03	0°♌	
	2743 Sep 07 12:06	0°♍	
morning set	2743 Sep 24 21:42	21°♍30'17	
	2743 Oct 01 17:58	0°♎	
	2743 Oct 25 19:31	0°♏	
max. Earth dist.	2743 Oct 29 19:48	5°♏00'50	1.71823 AU
superior conj	2743 Nov 01 11:14	8°♏19'13	1°00'47
minimum elong	2743 Nov 01 21:30	8°♏51'19	1°00'25
	2743 Nov 18 18:45	0°♐	
desc. node	2743 Nov 29 16:32	13°♐40'18	
evening rise	2743 Dec 11 10:27	28°♐24'19	
	2743 Dec 12 16:58	0°♑	
	2744 Jan 05 15:07	0°♒	
	2744 Jan 29 14:31	0°♓	
	2744 Feb 22 17:41	0°♈	
	2744 Mar 18 04:34	0°♉	
asc. node	2744 Mar 21 19:35	4°♉23'54	
	2744 Apr 12 04:43	0°♊	
	2744 May 08 03:31	0°♋	
	2744 Jun 05 00:24	0°♌	
evening max el	2744 Jun 13 02:33	7°♌59'48	45°26'27
	2744 Jul 09 20:48	0°♍	
desc. node	2744 Jul 11 09:15	0°♍56'16	
greatest brilliancy	2744 Jul 21 06:02	5°♍44'14	-4.7m
retrograde	2744 Jul 31 16:57	7°♍41'12	
evening set	2744 Aug 17 18:14	2°♍12'00	
	2744 Aug 21 08:59	30°℞♌	
inferior conj	2744 Aug 22 03:07	29°♌31'44	-7°50'49
minimum elong	2744 Aug 21 19:27	29°♌43'41	7°49'53
min. Earth dist.	2744 Aug 22 06:21	29°♌26'41	0.28941 AU
morning rise	2744 Aug 25 20:35	27°♌14'06	
direct	2744 Sep 12 18:03	21°♌15'09	
greatest brilliancy	2744 Sep 23 09:59	23°♌19'36	-4.8m
	2744 Oct 05 22:47	0°♍	
morning max el	2744 Nov 01 13:35	22°♍48'32	46°21'47
asc. node	2744 Nov 01 12:19	22°♍45'23	
	2744 Nov 08 15:07	0°♎	
	2744 Dec 05 18:35	0°♏	
	2744 Dec 31 03:31	0°♐	
	2745 Jan 24 19:05	0°♑	
	2745 Feb 18 03:16	0°♒	
desc. node	2745 Feb 21 01:56	3°♒38'33	
	2745 Mar 14 08:42	0°♓	
	2745 Apr 07 13:50	0°♈	
	2745 May 01 20:09	0°♉	
morning set	2745 May 07 21:28	7°♉28'18	
	2745 May 26 04:12	0°♊	
superior conj	2745 Jun 14 06:23	23°♊29'04	0°00'07
minimum elong	2745 Jun 14 06:20	23°♊28'57	0°00'07
behind sun begin	2745 Jun 13 07:50	22°♊19'44	
behind sun end	2745 Jun 15 04:51	24°♊38'10	
asc. node	2745 Jun 14 05:17	23°♊25'42	
max. Earth dist.	2745 Jun 15 01:32	24°♊27'58	1.73473 AU
	2745 Jun 19 13:34	0°♋	
	2745 Jul 13 23:27	0°♌	
evening rise	2745 Jul 20 13:22	8°♌05'10	
	2745 Aug 07 09:32	0°♍	
	2745 Aug 31 20:27	0°♎	
	2745 Sep 25 09:26	0°♏	
desc. node	2745 Oct 03 18:44	10°♏13'00	
	2745 Oct 20 01:48	0°♐	
	2745 Nov 13 23:18	0°♑	
	2745 Dec 09 06:46	0°♒	
	2746 Jan 04 14:52	0°♓	
evening max el	2746 Jan 19 17:37	16°♓03'29	47°10'24
asc. node	2746 Jan 24 21:54	21°♓14'26	
	2746 Feb 03 06:14	0°♈	
greatest brilliancy	2746 Mar 01 03:22	17°♈28'10	-4.9m
retrograde	2746 Mar 11 12:32	19°♈30'16	
evening set	2746 Mar 29 07:14	13°♈22'30	
min. Earth dist.	2746 Apr 01 04:22	11°♈34'49	0.27944 AU
inferior conj	2746 Apr 01 12:40	11°♈21'44	8°22'03
minimum elong	2746 Apr 01 19:02	11°♈11'44	8°21'25
morning rise	2746 Apr 05 07:06	9°♈02'06	
direct	2746 Apr 22 11:33	3°♈22'26	
greatest brilliancy	2746 May 01 19:23	4°♈59'16	-4.8m

desc. node	2746 May 16	11:20	12°♈40'15	
	2746 Jun 06	12:25	0°♉	
morning max el	2746 Jun 10	14:02	3°♉51'23	45°54'32
	2746 Jul 06	00:14	0°♊	
	2746 Aug 01	22:32	0°♋	
	2746 Aug 27	17:18	0°♌	
asc. node	2746 Sep 06	14:39	11°♌45'36	
	2746 Sep 21	18:17	0°♍	
	2746 Oct 16	06:33	0°♎	
	2746 Nov 09	10:23	0°♏	
	2746 Dec 03	09:27	0°♐	
morning set	2746 Dec 05	20:11	3°♐04'22	
desc. node	2746 Dec 27	04:22	29°♐53'55	
	2746 Dec 27	06:18	0°♑	
superior conj	2747 Jan 15	23:59	24°♑50'11	-0°45'17
minimum elong	2747 Jan 15	13:22	24°♑16'49	0°44'49
max. Earth dist.	2747 Jan 16	20:49	25°♑55'44	1.71093 AU
	2747 Jan 20	02:29	0°♒	
	2747 Feb 12	23:17	0°♓	
evening rise	2747 Feb 26	04:40	16°♓34'38	
	2747 Mar 08	22:17	0°♈	
	2747 Apr 02	01:26	0°♉	
asc. node	2747 Apr 19	07:34	21°♉16'00	
	2747 Apr 26	10:43	0°♊	
	2747 May 21	04:12	0°♋	
	2747 Jun 15	09:01	0°♌	
	2747 Jul 11	07:44	0°♍	
	2747 Aug 07	16:39	0°♎	
desc. node	2747 Aug 08	20:56	1°♎14'05	
evening max el	2747 Aug 24	16:46	17°♎07'53	45°50'56
	2747 Sep 08	00:39	0°♏	
greatest brilliancy	2747 Oct 03	16:32	15°♏45'24	-4.8m
retrograde	2747 Oct 12	17:04	17°♏15'07	
evening set	2747 Oct 29	01:19	12°♏11'57	
inferior conj	2747 Nov 02	14:32	9°♏29'17	-6°15'34
minimum elong	2747 Nov 03	01:00	9°♏13'15	6°13'15
min. Earth dist.	2747 Nov 03	13:32	8°♏54'03	0.27369 AU
morning rise	2747 Nov 08	00:00	6°♏16'28	
direct	2747 Nov 23	11:38	1°♏33'43	
asc. node	2747 Nov 30	00:08	2°♏23'06	
greatest brilliancy	2747 Dec 04	16:00	3°♏53'42	-4.9m
	2748 Jan 08	07:34	0°♐	
morning max el	2748 Jan 13	04:45	4°♐53'02	46°56'55
	2748 Feb 05	11:31	0°♑	
	2748 Mar 02	10:23	0°♒	
desc. node	2748 Mar 20	13:51	21°♒34'34	
	2748 Mar 27	14:19	0°♓	
	2748 Apr 21	10:22	0°♈	
	2748 May 16	03:12	0°♉	
	2748 Jun 09	18:33	0°♊	
	2748 Jul 04	08:21	0°♋	
asc. node	2748 Jul 11	17:06	9°♋00'41	
morning set	2748 Jul 15	07:46	13°♋26'09	
	2748 Jul 28	19:42	0°♌	
max. Earth dist.	2748 Aug 17	23:59	24°♌51'02	1.73214 AU
superior conj	2748 Aug 20	17:46	28°♌14'05	1°16'38
minimum elong	2748 Aug 20	10:46	27°♌52'28	1°16'29
	2748 Aug 22	04:05	0°♍	
	2748 Sep 15	09:54	0°♎	
evening rise	2748 Sep 26	04:03	13°♎20'20	
	2748 Oct 09	14:20	0°♏	
desc. node	2748 Oct 31	06:45	26°♏54'48	
	2748 Nov 02	18:27	0°♐	
	2748 Nov 26	22:58	0°♑	
	2748 Dec 21	04:59	0°♒	
	2749 Jan 14	15:25	0°♓	
	2749 Feb 08	12:43	0°♈	
asc. node	2749 Feb 21	09:38	15°♈07'29	
	2749 Mar 06	10:16	0°♉	
evening max el	2749 Apr 01	02:29	27°♉19'42	46°11'39
	2749 Apr 03	19:56	0°♊	
greatest brilliancy	2749 May 09	17:08	26°♊31'24	-4.8m
retrograde	2749 May 20	16:25	28°♊44'02	
evening set	2749 Jun 04	19:39	24°♊15'48	
inferior conj	2749 Jun 11	02:31	20°♊29'03	0°26'40
minimum elong	2749 Jun 11	03:31	20°♊27'31	0°26'22
min. Earth dist.	2749 Jun 11	00:06	20°♊32'51	0.28779 AU
desc. node	2749 Jun 12	23:19	19°♊19'06	
morning rise	2749 Jun 17	11:35	16°♊39'18	
direct	2749 Jul 02	13:39	12°♊14'53	
greatest brilliancy	2749 Jul 12	19:07	14°♊07'28	-4.7m
	2749 Aug 07	00:46	0°♋	
morning max el	2749 Aug 20	07:54	11°♋56'23	45°45'34
	2749 Sep 07	04:45	0°♌	
asc. node	2749 Oct 04	02:38	29°♌47'59	
	2749 Oct 04	06:49	0°♍	
	2749 Oct 29	18:47	0°♎	
	2749 Nov 23	10:43	0°♏	
	2749 Dec 17	15:57	0°♐	
	2750 Jan 10	16:07	0°♑	
desc. node	2750 Jan 23	16:09	16°♑17'37	
	2750 Feb 03	14:24	0°♒	
morning set	2750 Feb 20	18:58	21°♒33'13	
	2750 Feb 27	12:43	0°♓	
	2750 Mar 23	12:29	0°♈	
superior conj	2750 Apr 02	04:19	12°♈02'44	-1°21'36
minimum elong	2750 Apr 02	11:08	12°♈23'59	1°21'30
max. Earth dist.	2750 Apr 06	01:41	16°♈53'20	1.72190 AU
	2750 Apr 16	14:55	0°♉	
	2750 May 10	20:54	0°♊	
evening rise	2750 May 11	04:12	0°♊22'30	
asc. node	2750 May 16	19:30	7°♊19'09	
	2750 Jun 04	06:45	0°♋	
	2750 Jun 28	20:41	0°♌	
	2750 Jul 23	15:36	0°♍	
	2750 Aug 17	17:51	0°♎	
desc. node	2750 Sep 05	08:49	21°♎55'20	
	2750 Sep 12	07:38	0°♏	
	2750 Oct 08	17:25	0°♐	
evening max el	2750 Nov 05	21:31	29°♐51'48	46°56'17
	2750 Nov 06	00:49	0°♑	
	2750 Dec 14	19:30	0°♒	
greatest brilliancy	2750 Dec 16	06:40	0°♒33'59	-4.9m
retrograde	2750 Dec 26	08:04	2°♒29'00	
asc. node	2750 Dec 27	12:02	2°♒27'19	
	2751 Jan 06	07:50	30°℞♑	
evening set	2751 Jan 10	00:02	28°♑10'50	
inferior conj	2751 Jan 15	20:39	24°♑43'43	4°47'12
minimum elong	2751 Jan 15	11:09	24°♑58'14	4°44'36
min. Earth dist.	2751 Jan 15	06:28	25°♑05'23	0.26568 AU
morning rise	2751 Jan 20	22:37	21°♑43'19	
direct	2751 Feb 05	06:20	17°♑05'22	
greatest brilliancy	2751 Feb 14	17:14	18°♑47'53	-4.9m
	2751 Mar 05	19:11	0°♒	
morning max el	2751 Mar 27	10:27	19°♒28'08	46°39'19
	2751 Apr 06	17:28	0°♓	
desc. node	2751 Apr 18	01:45	12°♓10'29	
	2751 May 04	01:46	0°♈	
	2751 May 30	02:41	0°♉	
	2751 Jun 24	13:43	0°♊	
	2751 Jul 19	16:08	0°♋	

asc. node	2751 Aug 09 04:50	24°♋48'56	
	2751 Aug 13 11:06	0°♌	
	2751 Sep 06 22:56	0°♍	
morning set	2751 Sep 22 14:25	19°♍20'04	
	2751 Oct 01 04:41	0°♎	
	2751 Oct 25 06:15	0°♏	
max. Earth dist.	2751 Oct 27 06:47	2°♏31'37	1.71867 AU
superior conj	2751 Oct 30 01:47	6°♏00'58	1°03'13
minimum elong	2751 Oct 30 11:55	6°♏32'41	1°02'52
	2751 Nov 18 05:34	0°♐	
desc. node	2751 Nov 28 18:39	13°♐12'51	
evening rise	2751 Dec 08 22:05	25°♐55'56	
	2751 Dec 12 03:56	0°♑	
	2752 Jan 05 02:14	0°♒	
	2752 Jan 29 01:49	0°♓	
	2752 Feb 22 05:16	0°♈	
	2752 Mar 17 16:37	0°♉	
asc. node	2752 Mar 20 21:40	3°♉53'30	
	2752 Apr 11 17:39	0°♊	
	2752 May 07 18:19	0°♋	
	2752 Jun 04 20:09	0°♌	
evening max el	2752 Jun 10 18:17	5°♌49'02	45°26'51
desc. node	2752 Jul 10 11:10	29°♌36'28	
	2752 Jul 11 03:50	0°♍	
greatest brilliancy	2752 Jul 18 21:11	3°♍34'10	-4.7m
retrograde	2752 Jul 29 08:10	5°♍31'22	
evening set	2752 Aug 15 07:00	0°♍06'53	
	2752 Aug 15 11:43	30°℞♌	
inferior conj	2752 Aug 19 19:07	27°♌21'42	-7°41'59
minimum elong	2752 Aug 19 11:00	27°♌34'23	7°40'55
min. Earth dist.	2752 Aug 19 21:45	27°♌17'35	0.28957 AU
morning rise	2752 Aug 23 14:53	25°♌00'21	
direct	2752 Sep 10 10:10	19°♌05'01	
greatest brilliancy	2752 Sep 21 01:26	21°♌08'16	-4.8m
	2752 Oct 06 18:02	0°♍	
morning max el	2752 Oct 30 03:43	20°♍30'41	46°20'17
asc. node	2752 Oct 31 14:23	21°♍57'09	
	2752 Nov 08 10:11	0°♎	
	2752 Dec 05 09:20	0°♏	
	2752 Dec 30 16:34	0°♐	
	2753 Jan 24 07:16	0°♑	
	2753 Feb 17 14:56	0°♒	
desc. node	2753 Feb 20 03:58	3°♒08'53	
	2753 Mar 13 20:00	0°♓	
	2753 Apr 07 00:52	0°♈	
	2753 May 01 06:59	0°♉	
morning set	2753 May 05 13:12	5°♉15'28	
	2753 May 25 14:53	0°♊	
superior conj	2753 Jun 11 23:32	21°♊21'41	-0°03'11
minimum elong	2753 Jun 12 00:13	21°♊23'45	0°03'09
behind sun begin	2753 Jun 11 01:40	20°♊14'27	
behind sun end	2753 Jun 12 22:45	22°♊33'03	
max. Earth dist.	2753 Jun 12 21:47	22°♊30'05	1.73449 AU
asc. node	2753 Jun 13 07:16	22°♊59'11	
	2753 Jun 19 00:10	0°♋	
	2753 Jul 13 10:04	0°♌	
evening rise	2753 Jul 18 07:56	6°♌02'01	
	2753 Aug 06 20:17	0°♍	
	2753 Aug 31 07:30	0°♎	
	2753 Sep 24 20:56	0°♏	
desc. node	2753 Oct 02 20:52	9°♏44'01	
	2753 Oct 19 13:56	0°♐	
	2753 Nov 13 12:21	0°♑	
	2753 Dec 08 21:22	0°♒	
	2754 Jan 04 08:54	0°♓	
evening max el	2754 Jan 17 07:08	13°♓39'54	47°11'22
asc. node	2754 Jan 23 23:50	20°♓19'50	
	2754 Feb 03 13:04	0°♈	
greatest brilliancy	2754 Feb 26 19:26	15°♈10'26	-4.9m
retrograde	2754 Mar 09 02:58	17°♈11'26	
evening set	2754 Mar 27 00:00	11°♈01'06	
inferior conj	2754 Mar 30 03:21	9°♈03'36	8°29'00
minimum elong	2754 Mar 30 09:01	8°♈54'41	8°28'31
min. Earth dist.	2754 Mar 29 18:46	9°♈17'08	0.27906 AU
morning rise	2754 Apr 02 18:13	6°♈49'07	
direct	2754 Apr 20 01:06	1°♈04'51	
greatest brilliancy	2754 Apr 29 09:21	2°♈41'40	-4.8m
desc. node	2754 May 15 13:26	11°♈25'33	
	2754 Jun 06 12:26	0°♉	
morning max el	2754 Jun 08 03:52	1°♉34'24	45°55'40
	2754 Jul 05 16:22	0°♊	
	2754 Aug 01 11:56	0°♋	
	2754 Aug 27 05:24	0°♌	
asc. node	2754 Sep 05 16:47	11°♌16'42	
	2754 Sep 21 05:41	0°♍	
	2754 Oct 15 17:37	0°♎	
	2754 Nov 08 21:19	0°♏	
	2754 Dec 02 20:19	0°♐	
morning set	2754 Dec 03 08:18	0°♐37'37	
desc. node	2754 Dec 26 06:20	29°♐26'04	
	2754 Dec 26 17:07	0°♑	
superior conj	2755 Jan 13 10:05	22°♑17'01	-0°41'49
minimum elong	2755 Jan 13 00:02	21°♑45'25	0°41'23
max. Earth dist.	2755 Jan 14 00:32	23°♑02'29	1.71086 AU
	2755 Jan 19 13:16	0°♒	
	2755 Feb 12 10:04	0°♓	
evening rise	2755 Feb 23 15:34	14°♓04'43	
	2755 Mar 08 09:06	0°♈	
	2755 Apr 01 12:21	0°♉	
asc. node	2755 Apr 18 09:40	20°♉48'31	
	2755 Apr 25 21:52	0°♊	
	2755 May 20 15:48	0°♋	
	2755 Jun 14 21:29	0°♌	
	2755 Jul 10 21:54	0°♍	
	2755 Aug 07 10:46	0°♎	
desc. node	2755 Aug 07 22:59	0°♎31'45	
evening max el	2755 Aug 22 06:00	14°♎49'30	45°49'08
	2755 Sep 08 10:30	0°♏	
greatest brilliancy	2755 Oct 01 04:58	13°♏24'31	-4.8m
retrograde	2755 Oct 10 06:15	14°♏54'55	
evening set	2755 Oct 26 17:43	9°♏46'20	
inferior conj	2755 Oct 31 03:58	7°♏07'58	-6°30'55
minimum elong	2755 Oct 31 14:25	6°♏52'00	6°28'43
min. Earth dist.	2755 Nov 01 03:19	6°♏32'16	0.27439 AU
morning rise	2755 Nov 05 10:29	3°♏59'29	
	2755 Nov 14 19:00	30°℞♎	
direct	2755 Nov 21 01:57	29°♎11'06	
	2755 Nov 27 13:16	0°♏	
asc. node	2755 Nov 29 02:10	0°♏25'05	
greatest brilliancy	2755 Dec 02 07:02	1°♏32'14	-4.9m
	2756 Jan 08 07:25	0°♐	
morning max el	2756 Jan 10 19:47	2°♐32'19	46°56'37
	2756 Feb 05 04:04	0°♑	
	2756 Mar 02 00:18	0°♒	
desc. node	2756 Mar 19 15:59	21°♒02'15	
	2756 Mar 27 02:54	0°♓	
	2756 Apr 20 22:09	0°♈	
	2756 May 15 14:27	0°♉	
	2756 Jun 09 05:27	0°♊	
	2756 Jul 03 19:02	0°♋	
asc. node	2756 Jul 10 19:04	8°♋34'05	

morning set	2756 Jul 13 01:41	11°♋21'23	
	2756 Jul 28 06:17	0°♌	
max. Earth dist.	2756 Aug 15 21:26	22°♌56'29	1.73248 AU
superior conj	2756 Aug 18 11:46	26°♌08'47	1°15'12
minimum elong	2756 Aug 18 04:23	25°♌46'00	1°15'02
	2756 Aug 21 14:39	0°♍	
	2756 Sep 14 20:35	0°♎	
evening rise	2756 Sep 23 20:20	11°♎08'43	
	2756 Oct 09 01:12	0°♏	
desc. node	2756 Oct 30 08:46	26°♏26'41	
	2756 Nov 02 05:34	0°♐	
	2756 Nov 26 10:25	0°♑	
	2756 Dec 20 16:53	0°♒	
	2757 Jan 14 03:57	0°♓	
	2757 Feb 08 02:18	0°♈	
asc. node	2757 Feb 20 11:48	14°♈31'49	
	2757 Mar 06 02:09	0°♉	
evening max el	2757 Mar 29 18:34	25°♉07'38	46°14'04
	2757 Apr 03 18:56	0°♊	
greatest brilliancy	2757 May 07 09:14	24°♊21'35	-4.8m
retrograde	2757 May 18 09:29	26°♊34'52	
evening set	2757 Jun 02 13:03	22°♊05'05	
inferior conj	2757 Jun 08 18:48	18°♊19'41	0°46'41
minimum elong	2757 Jun 08 20:31	18°♊16'59	0°46'11
min. Earth dist.	2757 Jun 08 16:12	18°♊23'44	0.28761 AU
desc. node	2757 Jun 12 01:14	16°♊18'14	
morning rise	2757 Jun 15 04:18	14°♊29'38	
direct	2757 Jun 30 06:06	10°♊05'49	
greatest brilliancy	2757 Jul 10 10:20	11°♊57'51	-4.7m
	2757 Aug 07 05:44	0°♋	
morning max el	2757 Aug 18 00:48	9°♋49'22	45°44'55
	2757 Sep 06 21:46	0°♌	
asc. node	2757 Oct 03 04:42	29°♌14'06	
	2757 Oct 03 20:39	0°♍	
	2757 Oct 29 07:16	0°♎	
	2757 Nov 22 22:31	0°♏	
	2757 Dec 17 03:23	0°♐	
	2758 Jan 10 03:20	0°♑	
desc. node	2758 Jan 22 18:07	15°♑48'52	
	2758 Feb 03 01:29	0°♒	
morning set	2758 Feb 18 05:06	19°♒00'08	
	2758 Feb 26 23:41	0°♓	
	2758 Mar 22 23:19	0°♈	
superior conj	2758 Mar 30 17:18	9°♈39'55	-1°22'45
minimum elong	2758 Mar 30 23:24	9°♈58'58	1°22'40
max. Earth dist.	2758 Apr 03 16:12	14°♈35'30	1.72134 AU
	2758 Apr 16 01:40	0°♉	
evening rise	2758 May 08 19:47	28°♉09'26	
	2758 May 10 07:39	0°♊	
asc. node	2758 May 15 21:28	6°♊52'09	
	2758 Jun 03 17:36	0°♋	
	2758 Jun 28 07:47	0°♌	
	2758 Jul 23 03:12	0°♍	
	2758 Aug 17 06:16	0°♎	
desc. node	2758 Sep 04 10:55	21°♎22'25	
	2758 Sep 11 21:29	0°♏	
	2758 Oct 08 10:04	0°♐	
evening max el	2758 Nov 03 12:10	27°♐30'55	46°54'19
	2758 Nov 06 00:48	0°♑	
greatest brilliancy	2758 Dec 13 19:42	28°♑05'31	-4.9m
retrograde	2758 Dec 23 20:37	29°♑59'27	
asc. node	2758 Dec 26 14:00	29°♑50'19	
evening set	2759 Jan 07 10:13	25°♑45'06	
inferior conj	2759 Jan 13 08:52	22°♑15'03	4°26'12
minimum elong	2759 Jan 12 23:50	22°♑28'51	4°23'38
min. Earth dist.	2759 Jan 12 19:40	22°♑35'14	0.26541 AU
morning rise	2759 Jan 18 13:48	19°♑10'27	
direct	2759 Feb 02 18:53	14°♑37'13	
greatest brilliancy	2759 Feb 12 06:28	16°♑20'15	-4.9m
	2759 Mar 06 09:24	0°♒	
morning max el	2759 Mar 24 23:20	17°♒03'13	46°40'41
	2759 Apr 06 12:59	0°♓	
desc. node	2759 Apr 17 03:45	11°♓28'40	
	2759 May 03 16:51	0°♈	
	2759 May 29 15:49	0°♉	
	2759 Jun 24 01:45	0°♊	
	2759 Jul 19 03:32	0°♋	
asc. node	2759 Aug 08 06:59	24°♋21'47	
	2759 Aug 12 22:08	0°♌	
	2759 Sep 06 09:48	0°♍	
morning set	2759 Sep 20 06:58	17°♍09'07	
	2759 Sep 30 15:31	0°♎	
max. Earth dist.	2759 Oct 24 16:25	29°♎57'44	1.71918 AU
	2759 Oct 24 17:09	0°♏	
superior conj	2759 Oct 27 16:09	3°♏41'47	1°05'32
minimum elong	2759 Oct 28 02:06	4°♏12'54	1°05'13
	2759 Nov 17 16:34	0°♐	
desc. node	2759 Nov 27 20:35	12°♐44'18	
evening rise	2759 Dec 06 09:21	23°♐25'56	
	2759 Dec 11 15:04	0°♑	
	2760 Jan 04 13:30	0°♒	
	2760 Jan 28 13:16	0°♓	
	2760 Feb 21 17:00	0°♈	
	2760 Mar 17 04:50	0°♉	
asc. node	2760 Mar 19 23:44	3°♉22'35	
	2760 Apr 11 06:48	0°♊	
	2760 May 07 09:25	0°♋	
	2760 Jun 04 16:38	0°♌	
evening max el	2760 Jun 08 09:18	3°♌36'18	45°27'25
desc. node	2760 Jul 09 13:15	28°♌14'20	
	2760 Jul 13 01:55	0°♍	
greatest brilliancy	2760 Jul 16 12:27	1°♍24'14	-4.7m
retrograde	2760 Jul 26 23:28	3°♍22'02	
	2760 Aug 09 04:22	30°℞♌	
evening set	2760 Aug 12 19:54	28°♌01'57	
inferior conj	2760 Aug 17 11:19	25°♌11'59	-7°32'30
minimum elong	2760 Aug 17 02:46	25°♌25'21	7°31'18
min. Earth dist.	2760 Aug 17 13:28	25°♌08'37	0.28976 AU
morning rise	2760 Aug 21 09:29	22°♌46'51	
direct	2760 Sep 08 02:05	16°♌55'01	
greatest brilliancy	2760 Sep 18 17:36	18°♌57'52	-4.8m
	2760 Oct 07 08:27	0°♍	
morning max el	2760 Oct 27 17:41	18°♍11'57	46°18'35
asc. node	2760 Oct 30 16:24	21°♍08'55	
	2760 Nov 08 05:00	0°♎	
	2760 Dec 05 00:14	0°♏	
	2760 Dec 30 05:53	0°♐	
	2761 Jan 23 19:45	0°♑	
	2761 Feb 17 02:52	0°♒	
desc. node	2761 Feb 19 06:09	2°♒38'46	
	2761 Mar 13 07:32	0°♓	
	2761 Apr 06 12:07	0°♈	
	2761 Apr 30 18:02	0°♉	
morning set	2761 May 03 04:49	3°♉01'33	
	2761 May 25 01:48	0°♊	
superior conj	2761 Jun 09 16:53	19°♊14'06	-0°06'25
minimum elong	2761 Jun 09 18:15	19°♊18'18	0°06'22
behind sun begin	2761 Jun 08 21:01	18°♊13'01	
behind sun end	2761 Jun 10 15:28	20°♊23'35	
max. Earth dist.	2761 Jun 10 16:45	20°♊27'31	1.73424 AU

asc. node	2761 Jun 12 09:16	22°♊32'04	
	2761 Jun 18 11:00	0°♋	
	2761 Jul 12 20:55	0°♌	
evening rise	2761 Jul 16 02:47	3°♌59'07	
	2761 Aug 06 07:17	0°♍	
	2761 Aug 30 18:47	0°♎	
	2761 Sep 24 08:43	0°♏	
desc. node	2761 Oct 01 22:54	9°♏13'54	
	2761 Oct 19 02:24	0°♐	
	2761 Nov 13 01:51	0°♑	
	2761 Dec 08 12:38	0°♒	
	2762 Jan 04 03:59	0°♓	
evening max el	2762 Jan 14 20:28	11°♓14'11	47°12'20
asc. node	2762 Jan 23 02:00	19°♓23'01	
	2762 Feb 03 23:21	0°♈	
greatest brilliancy	2762 Feb 24 10:59	12°♈50'07	-4.9m
retrograde	2762 Mar 06 17:25	14°♈50'48	
evening set	2762 Mar 24 16:22	8°♈37'58	
inferior conj	2762 Mar 27 17:52	6°♈43'34	8°35'14
minimum elong	2762 Mar 27 22:46	6°♈35'51	8°34'53
min. Earth dist.	2762 Mar 27 08:50	6°♈57'45	0.27863 AU
morning rise	2762 Mar 31 05:21	4°♈34'17	
	2762 Apr 09 18:22	30°℞♓	
direct	2762 Apr 17 14:26	28°♓45'19	
	2762 Apr 25 18:27	0°♈	
greatest brilliancy	2762 Apr 26 23:09	0°♈22'29	-4.8m
desc. node	2762 May 14 15:25	10°♈11'39	
morning max el	2762 Jun 05 18:15	29°♈17'40	45°56'58
	2762 Jun 06 11:46	0°♉	
	2762 Jul 05 08:32	0°♊	
	2762 Aug 01 01:31	0°♋	
	2762 Aug 26 17:43	0°♌	
asc. node	2762 Sep 04 18:50	10°♌46'47	
	2762 Sep 20 17:21	0°♍	
	2762 Oct 15 04:57	0°♎	
	2762 Nov 08 08:31	0°♏	
morning set	2762 Nov 30 20:44	28°♏10'58	
	2762 Dec 02 07:29	0°♐	
desc. node	2762 Dec 25 08:25	28°♐57'26	
	2762 Dec 26 04:18	0°♑	
superior conj	2763 Jan 10 19:55	19°♑41'39	-0°38'15
minimum elong	2763 Jan 10 10:32	19°♑12'08	0°37'49
max. Earth dist.	2763 Jan 11 06:08	20°♑13'50	1.71090 AU
	2763 Jan 19 00:29	0°♒	
	2763 Feb 11 21:19	0°♓	
evening rise	2763 Feb 21 01:57	11°♓31'41	
	2763 Mar 07 20:23	0°♈	
	2763 Mar 31 23:43	0°♉	
asc. node	2763 Apr 17 11:37	20°♉19'18	
	2763 Apr 25 09:27	0°♊	
	2763 May 20 03:50	0°♋	
	2763 Jun 14 10:24	0°♌	
	2763 Jul 10 12:36	0°♍	
desc. node	2763 Aug 07 01:08	29°♍48'12	
	2763 Aug 07 05:43	0°♎	
evening max el	2763 Aug 19 20:26	12°♎33'28	45°47'28
	2763 Sep 09 00:03	0°♏	
greatest brilliancy	2763 Sep 28 17:08	11°♏03'33	-4.8m
retrograde	2763 Oct 07 20:04	12°♏35'00	
evening set	2763 Oct 24 10:25	7°♏21'17	
inferior conj	2763 Oct 28 17:43	4°♏46'57	-6°45'18
minimum elong	2763 Oct 29 04:03	4°♏31'08	6°43'15
min. Earth dist.	2763 Oct 29 16:52	4°♏11'33	0.27510 AU
morning rise	2763 Nov 02 21:10	1°♏42'57	
	2763 Nov 06 03:23	30°℞♎	
direct	2763 Nov 18 16:57	26°♎49'07	
asc. node	2763 Nov 28 04:08	28°♎31'36	
greatest brilliancy	2763 Nov 29 21:34	29°♎10'16	-4.9m
	2763 Dec 01 20:02	0°♏	
	2764 Jan 08 06:29	0°♐	
morning max el	2764 Jan 08 11:12	0°♐11'59	46°55'57
	2764 Feb 04 20:41	0°♑	
	2764 Mar 01 14:33	0°♒	
desc. node	2764 Mar 18 17:56	20°♒28'08	
	2764 Mar 26 15:54	0°♓	
	2764 Apr 20 10:23	0°♈	
	2764 May 15 02:08	0°♉	
	2764 Jun 08 16:44	0°♊	
	2764 Jul 03 06:03	0°♋	
asc. node	2764 Jul 09 21:11	8°♋06'58	
morning set	2764 Jul 10 19:34	9°♋15'33	
	2764 Jul 27 17:11	0°♌	
max. Earth dist.	2764 Aug 13 18:43	21°♌00'27	1.73278 AU
superior conj	2764 Aug 16 05:53	24°♌02'57	1°13'41
minimum elong	2764 Aug 15 22:10	23°♌39'08	1°13'29
	2764 Aug 21 01:34	0°♍	
	2764 Sep 14 07:35	0°♎	
evening rise	2764 Sep 21 13:00	8°♎57'18	
	2764 Oct 08 12:22	0°♏	
desc. node	2764 Oct 29 10:44	25°♏57'35	
	2764 Nov 01 16:58	0°♐	
	2764 Nov 25 22:09	0°♑	
	2764 Dec 20 05:05	0°♒	
	2765 Jan 13 16:49	0°♓	
	2765 Feb 07 16:22	0°♈	
asc. node	2765 Feb 19 13:47	13°♈54'10	
	2765 Mar 05 18:45	0°♉	
evening max el	2765 Mar 27 11:01	22°♉54'53	46°16'19
	2765 Apr 03 19:40	0°♊	
greatest brilliancy	2765 May 05 01:51	22°♊10'35	-4.8m
retrograde	2765 May 16 02:15	24°♊23'36	
evening set	2765 May 31 06:31	19°♊52'30	
inferior conj	2765 Jun 06 10:55	16°♊08'33	1°06'48
minimum elong	2765 Jun 06 13:22	16°♊04'42	1°06'05
min. Earth dist.	2765 Jun 06 08:13	16°♊12'47	0.28737 AU
desc. node	2765 Jun 11 03:18	13°♊16'41	
morning rise	2765 Jun 12 20:40	12°♊18'17	
direct	2765 Jun 27 22:29	7°♊55'16	
greatest brilliancy	2765 Jul 08 01:07	9°♊46'16	-4.7m
	2765 Aug 07 09:22	0°♋	
morning max el	2765 Aug 15 16:47	7°♋39'17	45°44'23
	2765 Sep 06 14:44	0°♌	
asc. node	2765 Oct 02 06:38	28°♌39'18	
	2765 Oct 03 10:35	0°♍	
	2765 Oct 28 19:54	0°♎	
	2765 Nov 22 10:29	0°♏	
	2765 Dec 16 14:59	0°♐	
	2766 Jan 09 14:43	0°♑	
desc. node	2766 Jan 21 20:18	15°♑20'16	
	2766 Feb 02 12:44	0°♒	
morning set	2766 Feb 15 15:32	16°♒27'23	
	2766 Feb 26 10:49	0°♓	
	2766 Mar 22 10:22	0°♈	
superior conj	2766 Mar 28 06:09	7°♈16'00	-1°23'45
minimum elong	2766 Mar 28 11:28	7°♈32'34	1°23'41
max. Earth dist.	2766 Apr 01 07:52	12°♈20'29	1.72083 AU
	2766 Apr 15 12:40	0°♉	
evening rise	2766 May 06 10:54	25°♉54'02	
	2766 May 09 18:39	0°♊	
asc. node	2766 May 14 23:30	6°♊24'27	
	2766 Jun 03 04:43	0°♋	

	2766 Jun 27 19:10	0°♌	
	2766 Jul 22 15:03	0°♍	
	2766 Aug 16 18:57	0°♎	
desc. node	2766 Sep 03 12:55	20°♎48'28	
	2766 Sep 11 11:40	0°♏	
	2766 Oct 08 03:13	0°♐	
evening max el	2766 Nov 01 02:01	25°♐07'44	46°52'15
	2766 Nov 06 02:06	0°♑	
greatest brilliancy	2766 Dec 11 09:27	25°♑37'51	-4.9m
retrograde	2766 Dec 21 08:43	27°♑30'05	
asc. node	2766 Dec 25 16:09	27°♑07'18	
evening set	2767 Jan 04 20:48	23°♑19'11	
inferior conj	2767 Jan 10 21:14	19°♑46'45	4°04'42
minimum elong	2767 Jan 10 12:45	19°♑59'44	4°02'13
min. Earth dist.	2767 Jan 10 09:25	20°♑04'50	0.26516 AU
morning rise	2767 Jan 16 05:00	16°♑38'00	
direct	2767 Jan 31 07:04	12°♑09'17	
greatest brilliancy	2767 Feb 09 20:24	13°♑53'30	-4.9m
	2767 Mar 06 19:59	0°♒	
morning max el	2767 Mar 22 11:14	14°♒35'41	46°42'01
	2767 Apr 06 07:58	0°♓	
desc. node	2767 Apr 16 05:47	10°♓47'16	
	2767 May 03 07:48	0°♈	
	2767 May 29 04:56	0°♉	
	2767 Jun 23 13:53	0°♊	
	2767 Jul 18 15:03	0°♋	
asc. node	2767 Aug 07 09:01	23°♋53'57	
	2767 Aug 12 09:17	0°♌	
	2767 Sep 05 20:43	0°♍	
morning set	2767 Sep 17 23:31	14°♍58'03	
	2767 Sep 30 02:22	0°♎	
max. Earth dist.	2767 Oct 22 05:00	27°♎33'07	1.71970 AU
	2767 Oct 24 04:02	0°♏	
superior conj	2767 Oct 25 06:45	1°♏23'25	1°07'44
minimum elong	2767 Oct 25 16:29	1°♏53'50	1°07'27
	2767 Nov 17 03:35	0°♐	
desc. node	2767 Nov 26 22:41	12°♐16'15	
evening rise	2767 Dec 03 21:00	20°♐57'12	
	2767 Dec 11 02:14	0°♑	
	2768 Jan 04 00:48	0°♒	
	2768 Jan 28 00:43	0°♓	
	2768 Feb 21 04:42	0°♈	
	2768 Mar 16 17:02	0°♉	
asc. node	2768 Mar 19 01:42	2°♉51'27	
	2768 Apr 10 19:58	0°♊	
	2768 May 07 00:41	0°♋	
	2768 Jun 04 13:51	0°♌	
evening max el	2768 Jun 05 23:48	1°♌22'13	45°27'56
desc. node	2768 Jul 08 15:22	26°♌49'16	
greatest brilliancy	2768 Jul 14 03:22	29°♌13'36	-4.7m
	2768 Jul 16 12:22	0°♍	
retrograde	2768 Jul 24 15:06	1°♍12'36	
	2768 Aug 01 11:26	30°℞♌	
evening set	2768 Aug 10 08:43	25°♌56'37	
inferior conj	2768 Aug 15 03:27	23°♌02'04	-7°22'22
minimum elong	2768 Aug 14 18:32	23°♌16'00	7°21'01
min. Earth dist.	2768 Aug 15 05:09	22°♌59'25	0.28994 AU
morning rise	2768 Aug 19 04:09	20°♌33'11	
direct	2768 Sep 05 17:49	14°♌44'46	
greatest brilliancy	2768 Sep 16 10:05	16°♌47'55	-4.8m
	2768 Oct 07 19:09	0°♍	
morning max el	2768 Oct 25 08:07	15°♍54'43	46°17'03
asc. node	2768 Oct 29 18:28	20°♍21'50	
	2768 Nov 07 23:16	0°♎	
	2768 Dec 04 14:49	0°♏	
	2768 Dec 29 18:58	0°♐	

	2769 Jan 23 08:02	0°♑	
	2769 Feb 16 14:38	0°♒	
desc. node	2769 Feb 18 08:04	2°♒08'21	
	2769 Mar 12 18:55	0°♓	
	2769 Apr 05 23:13	0°♈	
	2769 Apr 30 04:55	0°♉	
morning set	2769 Apr 30 20:27	0°♉48'01	
	2769 May 24 12:32	0°♊	
superior conj	2769 Jun 07 10:13	17°♊07'00	-0°09'40
minimum elong	2769 Jun 07 12:17	17°♊13'21	0°09'34
behind sun begin	2769 Jun 06 17:41	16°♊16'10	
behind sun end	2769 Jun 08 06:52	18°♊10'30	
max. Earth dist.	2769 Jun 08 11:56	18°♊26'06	1.73401 AU
asc. node	2769 Jun 11 11:25	22°♊05'52	
	2769 Jun 17 21:40	0°♋	
	2769 Jul 12 07:37	0°♌	
evening rise	2769 Jul 13 21:38	1°♌56'40	
	2769 Aug 05 18:10	0°♍	
	2769 Aug 30 05:59	0°♎	
	2769 Sep 23 20:23	0°♏	
desc. node	2769 Oct 01 00:52	8°♏43'53	
	2769 Oct 18 14:45	0°♐	
	2769 Nov 12 15:15	0°♑	
	2769 Dec 08 03:51	0°♒	
	2770 Jan 03 23:19	0°♓	
evening max el	2770 Jan 12 10:16	8°♓50'24	47°13'15
asc. node	2770 Jan 22 04:00	18°♓25'17	
	2770 Feb 04 12:44	0°♈	
greatest brilliancy	2770 Feb 22 01:49	10°♈29'31	-4.9m
retrograde	2770 Mar 04 08:18	12°♈30'44	
evening set	2770 Mar 22 08:22	6°♈15'35	
inferior conj	2770 Mar 25 08:17	4°♈23'52	8°40'37
minimum elong	2770 Mar 25 12:26	4°♈17'21	8°40'21
min. Earth dist.	2770 Mar 24 22:31	4°♈39'11	0.27820 AU
morning rise	2770 Mar 28 16:40	2°♈19'34	
	2770 Apr 01 19:59	30°℞♓	
direct	2770 Apr 15 04:02	26°♓26'10	
greatest brilliancy	2770 Apr 24 12:27	28°♓03'26	-4.8m
	2770 Apr 29 08:14	0°♈	
desc. node	2770 May 13 17:29	9°♈00'46	
morning max el	2770 Jun 03 09:22	27°♈03'34	45°58'20
	2770 Jun 06 09:48	0°♉	
	2770 Jul 05 00:05	0°♊	
	2770 Jul 31 14:40	0°♋	
	2770 Aug 26 05:43	0°♌	
asc. node	2770 Sep 03 20:47	10°♌17'22	
	2770 Sep 20 04:45	0°♍	
	2770 Oct 14 16:04	0°♎	
	2770 Nov 07 19:29	0°♏	
morning set	2770 Nov 28 09:15	25°♏45'23	
	2770 Dec 01 18:24	0°♐	
desc. node	2770 Dec 24 10:31	28°♐29'49	
	2770 Dec 25 15:12	0°♑	
superior conj	2771 Jan 08 05:41	17°♑07'04	-0°34'36
minimum elong	2771 Jan 07 21:02	16°♑39'51	0°34'12
max. Earth dist.	2771 Jan 08 14:48	17°♑35'45	1.71092 AU
	2771 Jan 18 11:23	0°♒	
	2771 Feb 11 08:15	0°♓	
evening rise	2771 Feb 18 12:22	8°♓59'43	
	2771 Mar 07 07:23	0°♈	
	2771 Mar 31 10:49	0°♉	
asc. node	2771 Apr 16 13:41	19°♉51'14	
	2771 Apr 24 20:45	0°♊	
	2771 May 19 15:36	0°♋	
	2771 Jun 13 23:04	0°♌	

	2771 Jul 10 03:08	0°♍	
desc. node	2771 Aug 06 03:04	29°♍04'23	
	2771 Aug 07 00:50	0°♎	
evening max el	2771 Aug 17 11:13	10°♎19'13	45°45'38
	2771 Sep 09 17:46	0°♏	
greatest brilliancy	2771 Sep 26 05:13	8°♏43'14	-4.8m
retrograde	2771 Oct 05 09:36	10°♏15'15	
evening set	2771 Oct 22 03:00	4°♏56'45	
inferior conj	2771 Oct 26 07:18	2°♏26'19	-6°59'07
minimum elong	2771 Oct 26 17:28	2°♏10'45	6°57'12
min. Earth dist.	2771 Oct 27 06:08	1°♏51'21	0.27580 AU
	2771 Oct 30 08:23	30°℞♎	
morning rise	2771 Oct 31 07:29	29°♎26'49	
direct	2771 Nov 16 07:55	24°♎27'39	
asc. node	2771 Nov 27 06:16	26°♎42'48	
greatest brilliancy	2771 Nov 27 11:31	26°♎48'00	-4.9m
	2771 Dec 04 00:12	0°♏	
morning max el	2772 Jan 06 02:05	27°♏51'01	46°55'19
	2772 Jan 08 04:25	0°♐	
	2772 Feb 04 12:43	0°♑	
	2772 Mar 01 04:17	0°♒	
desc. node	2772 Mar 17 20:00	19°♒55'36	
	2772 Mar 26 04:27	0°♓	
	2772 Apr 19 22:11	0°♈	
	2772 May 14 13:25	0°♉	
	2772 Jun 08 03:39	0°♊	
	2772 Jul 02 16:44	0°♋	
morning set	2772 Jul 08 13:38	7°♋11'18	
asc. node	2772 Jul 08 23:12	7°♋40'36	
	2772 Jul 27 03:45	0°♌	
max. Earth dist.	2772 Aug 11 15:15	19°♌03'17	1.73305 AU
superior conj	2772 Aug 14 00:12	21°♌58'53	1°12'03
minimum elong	2772 Aug 13 16:11	21°♌34'10	1°11'50
	2772 Aug 20 12:07	0°♍	
	2772 Sep 13 18:15	0°♎	
evening rise	2772 Sep 19 05:49	6°♎47'30	
	2772 Oct 07 23:14	0°♏	
desc. node	2772 Oct 28 12:53	25°♏29'48	
	2772 Nov 01 04:08	0°♐	
	2772 Nov 25 09:41	0°♑	
	2772 Dec 19 17:04	0°♒	
	2773 Jan 13 05:29	0°♓	
	2773 Feb 07 06:13	0°♈	
asc. node	2773 Feb 18 15:46	13°♈17'12	
	2773 Mar 05 11:17	0°♉	
evening max el	2773 Mar 25 02:52	20°♉41'31	46°18'35
	2773 Apr 03 21:14	0°♊	
greatest brilliancy	2773 May 02 19:03	20°♊01'12	-4.8m
retrograde	2773 May 13 18:32	22°♊13'11	
evening set	2773 May 29 00:07	17°♊40'40	
inferior conj	2773 Jun 04 03:03	13°♊58'22	1°26'59
minimum elong	2773 Jun 04 06:13	13°♊53'23	1°26'02
min. Earth dist.	2773 Jun 04 00:29	14°♊02'25	0.28712 AU
desc. node	2773 Jun 10 05:27	10°♊17'57	
morning rise	2773 Jun 10 12:48	10°♊07'53	
direct	2773 Jun 25 14:40	5°♊45'39	
greatest brilliancy	2773 Jul 05 16:03	7°♊35'35	-4.7m
	2773 Aug 07 11:01	0°♋	
morning max el	2773 Aug 13 07:59	5°♋28'14	45°43'59
	2773 Sep 06 07:00	0°♌	
asc. node	2773 Oct 01 08:46	28°♌06'21	
	2773 Oct 03 00:02	0°♍	
	2773 Oct 28 08:07	0°♎	
	2773 Nov 21 22:06	0°♏	
	2773 Dec 16 02:19	0°♐	
	2774 Jan 09 01:53	0°♑	
desc. node	2774 Jan 20 22:16	14°♑51'40	
	2774 Feb 01 23:46	0°♒	
morning set	2774 Feb 13 01:27	13°♒53'36	
	2774 Feb 25 21:43	0°♓	
	2774 Mar 21 21:09	0°♈	
superior conj	2774 Mar 25 18:38	4°♈51'39	-1°24'36
minimum elong	2774 Mar 25 23:05	5°♈05'31	1°24'33
max. Earth dist.	2774 Mar 29 23:03	10°♈04'42	1.72025 AU
	2774 Apr 14 23:24	0°♉	
evening rise	2774 May 04 01:45	23°♉38'33	
	2774 May 09 05:24	0°♊	
asc. node	2774 May 14 01:37	5°♊57'55	
	2774 Jun 02 15:36	0°♋	
	2774 Jun 27 06:19	0°♌	
	2774 Jul 22 02:41	0°♍	
	2774 Aug 16 07:26	0°♎	
desc. node	2774 Sep 02 14:58	20°♎15'25	
	2774 Sep 11 01:41	0°♏	
	2774 Oct 07 20:23	0°♐	
evening max el	2774 Oct 29 14:41	22°♐42'38	46°50'03
	2774 Nov 06 04:25	0°♑	
greatest brilliancy	2774 Dec 08 23:14	23°♑10'44	-4.9m
retrograde	2774 Dec 18 20:20	25°♑01'12	
asc. node	2774 Dec 24 18:09	24°♑18'27	
evening set	2775 Jan 02 07:26	20°♑53'00	
inferior conj	2775 Jan 08 09:30	17°♑18'44	3°42'26
minimum elong	2775 Jan 08 01:38	17°♑30'47	3°40'06
min. Earth dist.	2775 Jan 07 23:21	17°♑34'17	0.26500 AU
morning rise	2775 Jan 13 20:00	14°♑06'03	
direct	2775 Jan 28 18:50	9°♑41'12	
greatest brilliancy	2775 Feb 07 10:50	11°♑27'23	-4.9m
	2775 Mar 07 03:40	0°♒	
morning max el	2775 Mar 19 23:04	12°♒07'58	46°43'26
	2775 Apr 06 02:20	0°♓	
desc. node	2775 Apr 15 07:54	10°♓06'57	
	2775 May 02 22:24	0°♈	
	2775 May 28 17:47	0°♉	
	2775 Jun 23 01:45	0°♊	
	2775 Jul 18 02:20	0°♋	
asc. node	2775 Aug 06 10:57	23°♋26'27	
	2775 Aug 11 20:13	0°♌	
	2775 Sep 05 07:28	0°♍	
morning set	2775 Sep 15 16:16	12°♍48'12	
	2775 Sep 29 13:03	0°♎	
max. Earth dist.	2775 Oct 19 20:09	25°♎17'04	1.72018 AU
superior conj	2775 Oct 22 21:44	29°♎06'50	1°09'48
minimum elong	2775 Oct 23 07:12	29°♎36'21	1°09'31
	2775 Oct 23 14:46	0°♏	
	2775 Nov 16 14:25	0°♐	
desc. node	2775 Nov 26 00:47	11°♐48'47	
evening rise	2775 Dec 01 09:04	18°♐30'31	
	2775 Dec 10 13:11	0°♑	
	2776 Jan 03 11:55	0°♒	
	2776 Jan 27 12:03	0°♓	
	2776 Feb 20 16:21	0°♈	
	2776 Mar 16 05:14	0°♉	
asc. node	2776 Mar 18 03:48	2°♉20'47	
	2776 Apr 10 09:10	0°♊	
	2776 May 06 16:05	0°♋	
evening max el	2776 Jun 03 14:33	29°♋09'02	45°28'43
	2776 Jun 04 11:46	0°♌	
desc. node	2776 Jul 07 17:18	25°♌21'26	
greatest brilliancy	2776 Jul 11 17:45	27°♌02'42	-4.7m
retrograde	2776 Jul 22 07:16	29°♌03'33	
evening set	2776 Aug 07 21:33	23°♌51'24	

inferior conj	2776 Aug 12	19:33	20°♌52'20	-7°11'32	
minimum elong	2776 Aug 12	10:20	21°♌06'43	7°10'03	
min. Earth dist.	2776 Aug 12	20:33	20°♌50'46	0.29011 AU	
morning rise	2776 Aug 16	22:55	18°♌19'42		
direct	2776 Sep 03	09:46	12°♌34'38		
greatest brilliancy	2776 Sep 14	02:16	14°♌37'59	-4.8m	
	2776 Oct 08	02:55	0°♍		
morning max el	2776 Oct 22	23:36	13°♍40'28	46°15'40	
asc. node	2776 Oct 28	20:31	19°♍35'38		
	2776 Nov 07	17:00	0°♎		
	2776 Dec 04	05:09	0°♏		
	2776 Dec 29	07:51	0°♐		
	2777 Jan 22	20:09	0°♑		
	2777 Feb 16	02:16	0°♒		
desc. node	2777 Feb 17	10:07	1°♒38'44		
	2777 Mar 12	06:14	0°♓		
	2777 Apr 05	10:18	0°♈		
morning set	2777 Apr 28	11:42	28°♈33'04		
	2777 Apr 29	15:49	0°♉		
	2777 May 23	23:17	0°♊		
superior conj	2777 Jun 05	03:11	14°♊58'39	-0°12'56	
minimum elong	2777 Jun 05	05:56	15°♊07'08	0°12'47	
behind sun begin	2777 Jun 04	16:04	14°♊24'27		
behind sun end	2777 Jun 05	19:48	15°♊49'48		
max. Earth dist.	2777 Jun 06	07:24	16°♊25'27	1.73376 AU	
asc. node	2777 Jun 10	13:23	21°♊39'04		
	2777 Jun 17	08:21	0°♋		
evening rise	2777 Jul 11	16:17	29°♋53'41		
	2777 Jul 11	18:21	0°♌		
	2777 Aug 05	05:05	0°♍		
	2777 Aug 29	17:15	0°♎		
	2777 Sep 23	08:09	0°♏		
desc. node	2777 Sep 30	03:01	8°♏14'15		
	2777 Oct 18	03:13	0°♐		
	2777 Nov 12	04:47	0°♑		
	2777 Dec 07	19:16	0°♒		
	2778 Jan 03	19:08	0°♓		
evening max el	2778 Jan 10	01:01	6°♓29'22	47°14'09	
asc. node	2778 Jan 21	05:58	17°♓26'27		
	2778 Feb 05	06:30	0°♈		
greatest brilliancy	2778 Feb 19	16:09	8°♈08'35	-4.9m	
retrograde	2778 Mar 01	23:43	10°♈10'49		
evening set	2778 Mar 20	00:05	3°♈53'51		
inferior conj	2778 Mar 22	22:46	2°♈04'10	8°45'00	
minimum elong	2778 Mar 23	02:08	1°♈58'53	8°44'51	
min. Earth dist.	2778 Mar 22	11:52	2°♈21'13	0.27778 AU	
morning rise	2778 Mar 26	04:22	0°♈04'21		
	2778 Mar 26	07:15	30°℞♓		
direct	2778 Apr 12	18:15	24°♓07'08		
greatest brilliancy	2778 Apr 22	01:19	25°♓43'48	-4.8m	
	2778 May 01	07:52	0°♈		
desc. node	2778 May 12	19:36	7°♈51'51		
morning max el	2778 Jun 01	01:04	24°♈50'29	45°59'33	
	2778 Jun 06	07:08	0°♉		
	2778 Jul 04	15:34	0°♊		
	2778 Jul 31	03:53	0°♋		
	2778 Aug 25	17:47	0°♌		
asc. node	2778 Sep 02	22:56	9°♌48'21		
	2778 Sep 19	16:15	0°♍		
	2778 Oct 14	03:16	0°♎		
	2778 Nov 07	06:35	0°♏		
morning set	2778 Nov 25	22:00	23°♏20'14		
	2778 Dec 01	05:27	0°♐		
desc. node	2778 Dec 23	12:29	28°♐01'18		
	2778 Dec 25	02:14	0°♑		
superior conj	2779 Jan 05	15:46	14°♑32'57	-0°30'53	
minimum elong	2779 Jan 05	07:55	14°♑08'17	0°30'31	
max. Earth dist.	2779 Jan 05	23:26	14°♑57'06	1.71090 AU	
	2779 Jan 17	22:26	0°♒		
	2779 Feb 10	19:18	0°♓		
evening rise	2779 Feb 15	23:05	6°♓28'14		
	2779 Mar 06	18:28	0°♈		
	2779 Mar 30	22:01	0°♉		
asc. node	2779 Apr 15	15:48	19°♉22'54		
	2779 Apr 24	08:12	0°♊		
	2779 May 19	03:34	0°♋		
	2779 Jun 13	12:02	0°♌		
	2779 Jul 09	18:05	0°♍		
desc. node	2779 Aug 05	05:10	28°♍19'46		
	2779 Aug 06	20:47	0°♎		
evening max el	2779 Aug 15	02:08	8°♎04'42	45°43'53	
	2779 Sep 10	18:02	0°♏		
greatest brilliancy	2779 Sep 23	18:05	6°♏23'46	-4.8m	
retrograde	2779 Oct 02	22:52	7°♏55'38		
evening set	2779 Oct 19	19:47	2°♏32'37		
inferior conj	2779 Oct 23	21:10	0°♏06'00	-7°11'59	
minimum elong	2779 Oct 24	07:04	29°♎50'47	7°10'13	
	2779 Oct 24	01:04	30°℞♎		
min. Earth dist.	2779 Oct 24	19:49	29°♎31'14	0.27649 AU	
morning rise	2779 Oct 28	17:57	27°♎10'56		
direct	2779 Nov 13	22:54	22°♎06'31		
greatest brilliancy	2779 Nov 25	01:46	24°♎25'54	-4.9m	
asc. node	2779 Nov 26	08:17	24°♎57'45		
	2779 Dec 05	10:42	0°♏		
morning max el	2780 Jan 03	16:17	25°♏27'43	46°54'35	
	2780 Jan 08	01:46	0°♐		
	2780 Feb 04	04:43	0°♑		
	2780 Feb 29	18:08	0°♒		
desc. node	2780 Mar 16	22:07	19°♒22'49		
	2780 Mar 25	17:08	0°♓		
	2780 Apr 19	10:07	0°♈		
	2780 May 14	00:51	0°♉		
	2780 Jun 07	14:45	0°♊		
	2780 Jul 02	03:38	0°♋		
morning set	2780 Jul 06	07:48	5°♋06'37		
asc. node	2780 Jul 08	01:12	7°♋13'26		
	2780 Jul 26	14:34	0°♌		
max. Earth dist.	2780 Aug 09	10:01	16°♌59'57	1.73333 AU	
superior conj	2780 Aug 11	18:35	19°♌54'14	1°10'20	
minimum elong	2780 Aug 11	10:19	19°♌28'46	1°10'06	
	2780 Aug 19	22:57	0°♍		
	2780 Sep 13	05:11	0°♎		
evening rise	2780 Sep 16	22:40	4°♎37'03		
	2780 Oct 07	10:22	0°♏		
desc. node	2780 Oct 27	14:54	25°♏00'47		
	2780 Oct 31	15:33	0°♐		
	2780 Nov 24	21:30	0°♑		
	2780 Dec 19	05:24	0°♒		
	2781 Jan 12	18:32	0°♓		
	2781 Feb 06	20:32	0°♈		
asc. node	2781 Feb 17	17:56	12°♈39'33		
	2781 Mar 05	04:27	0°♉		
evening max el	2781 Mar 22	17:58	18°♉25'19	46°20'56	
	2781 Apr 04	00:34	0°♊		
greatest brilliancy	2781 Apr 30	12:52	17°♊52'01	-4.8m	
retrograde	2781 May 11	10:39	20°♊02'38		
evening set	2781 May 26	18:01	15°♊28'25		
inferior conj	2781 Jun 01	19:23	11°♊48'08	1°46'47	
minimum elong	2781 Jun 01	23:15	11°♊42'02	1°45'39	
min. Earth dist.	2781 Jun 01	17:11	11°♊51'35	0.28687 AU	
morning rise	2781 Jun 08	04:55	7°♊57'32		

desc. node	2781 Jun 09 07:21	7°♊22'24		
direct	2781 Jun 23 06:33	3°♊35'53		
greatest brilliancy	2781 Jul 03 07:36	5°♊25'10	-4.7m	
	2781 Aug 07 11:41	0°♋		
morning max el	2781 Aug 10 22:45	3°♋15'21	45°43'34	
	2781 Sep 05 23:18	0°♌		
asc. node	2781 Sep 30 10:50	27°♌32'25		
	2781 Oct 02 13:43	0°♍		
	2781 Oct 27 20:38	0°♎		
	2781 Nov 21 10:01	0°♏		
	2781 Dec 15 13:55	0°♐		
	2782 Jan 08 13:18	0°♑		
desc. node	2782 Jan 20 00:18	14°♑22'24		
	2782 Feb 01 11:05	0°♒		
morning set	2782 Feb 10 11:12	11°♒18'15		
	2782 Feb 25 08:56	0°♓		
	2782 Mar 21 08:16	0°♈		
superior conj	2782 Mar 23 07:06	2°♈26'09	-1°25'17	
minimum elong	2782 Mar 23 10:40	2°♈37'15	1°25'16	
max. Earth dist.	2782 Mar 27 11:24	7°♈38'56	1.71966 AU	
	2782 Apr 14 10:27	0°♉		
evening rise	2782 May 01 16:34	21°♉21'59		
	2782 May 08 16:28	0°♊		
asc. node	2782 May 13 03:36	5°♊30'00		
	2782 Jun 02 02:45	0°♋		
	2782 Jun 26 17:44	0°♌		
	2782 Jul 21 14:37	0°♍		
	2782 Aug 15 20:18	0°♎		
desc. node	2782 Sep 01 17:03	19°♎41'16		
	2782 Sep 10 16:14	0°♏		
	2782 Oct 07 14:20	0°♐		
evening max el	2782 Oct 27 02:57	20°♐15'41	46°47'56	
	2782 Nov 06 08:49	0°♑		
greatest brilliancy	2782 Dec 06 12:55	20°♑42'35	-4.9m	
retrograde	2782 Dec 16 08:17	22°♑31'49		
asc. node	2782 Dec 23 20:08	21°♑22'59		
evening set	2782 Dec 30 18:20	18°♑25'30		
inferior conj	2783 Jan 05 21:49	14°♑49'56	3°19'47	
minimum elong	2783 Jan 05 14:37	15°♑00'56	3°17'35	
min. Earth dist.	2783 Jan 05 13:16	15°♑02'59	0.26489 AU	
morning rise	2783 Jan 11 10:56	11°♑33'42		
direct	2783 Jan 26 06:31	7°♑12'06		
greatest brilliancy	2783 Feb 05 01:21	9°♑00'36	-4.9m	
	2783 Mar 07 09:30	0°♒		
morning max el	2783 Mar 17 11:51	9°♒41'32	46°44'45	
	2783 Apr 05 20:37	0°♓		
desc. node	2783 Apr 14 09:55	9°♓25'48		
	2783 May 02 13:10	0°♈		
	2783 May 28 06:53	0°♉		
	2783 Jun 22 13:53	0°♊		
	2783 Jul 17 13:52	0°♋		
asc. node	2783 Aug 05 13:08	22°♋59'01		
	2783 Aug 11 07:23	0°♌		
	2783 Sep 04 18:27	0°♍		
morning set	2783 Sep 13 09:14	10°♍38'14		
	2783 Sep 29 00:01	0°♎		
max. Earth dist.	2783 Oct 17 12:22	23°♎03'28	1.72071 AU	
superior conj	2783 Oct 20 12:47	26°♎49'27	1°11'44	
minimum elong	2783 Oct 20 21:52	27°♎17'50	1°11'29	
	2783 Oct 23 01:48	0°♏		
	2783 Nov 16 01:35	0°♐		
desc. node	2783 Nov 25 02:45	11°♐19'51		
evening rise	2783 Nov 28 21:02	16°♐02'30		
	2783 Dec 10 00:29	0°♑		
	2784 Jan 02 23:22	0°♒		
	2784 Jan 26 23:42	0°♓		
	2784 Feb 20 04:21	0°♈		
	2784 Mar 15 17:47	0°♉		
asc. node	2784 Mar 17 05:51	1°♉48'53		
	2784 Apr 09 22:48	0°♊		
	2784 May 06 08:05	0°♋		
evening max el	2784 Jun 01 06:19	26°♋57'37	45°29'41	
	2784 Jun 04 10:56	0°♌		
desc. node	2784 Jul 06 19:25	23°♌50'28		
greatest brilliancy	2784 Jul 09 08:00	24°♌51'19	-4.7m	
retrograde	2784 Jul 19 23:57	26°♌54'16		
evening set	2784 Aug 05 10:37	21°♌45'59		
inferior conj	2784 Aug 10 11:46	18°♌42'26	-7°00'09	
minimum elong	2784 Aug 10 02:18	18°♌57'12	6°58'33	
min. Earth dist.	2784 Aug 10 11:46	18°♌42'26	0.29022 AU	
morning rise	2784 Aug 14 17:49	16°♌06'03		
direct	2784 Sep 01 02:12	10°♌24'36		
greatest brilliancy	2784 Sep 11 17:50	12°♌27'24	-4.8m	
	2784 Oct 08 08:31	0°♍		
morning max el	2784 Oct 20 15:52	11°♍28'05	46°14'04	
asc. node	2784 Oct 27 22:33	18°♍49'36		
	2784 Nov 07 10:33	0°♎		
	2784 Dec 03 19:35	0°♏		
	2784 Dec 28 20:57	0°♐		
	2785 Jan 22 08:30	0°♑		
	2785 Feb 15 14:08	0°♒		
desc. node	2785 Feb 16 12:18	1°♒08'46		
	2785 Mar 11 17:46	0°♓		
	2785 Apr 04 21:34	0°♈		
morning set	2785 Apr 26 02:42	26°♈16'44		
	2785 Apr 29 02:54	0°♉		
	2785 May 23 10:14	0°♊		
superior conj	2785 Jun 02 20:01	12°♊49'09	-0°16'10	
minimum elong	2785 Jun 02 23:28	12°♊59'46	0°16'01	
max. Earth dist.	2785 Jun 04 03:50	14°♊27'03	1.73350 AU	
asc. node	2785 Jun 09 15:26	21°♊11'50		
	2785 Jun 16 19:15	0°♋		
evening rise	2785 Jul 09 11:00	27°♋50'14		
	2785 Jul 11 05:17	0°♌		
	2785 Aug 04 16:10	0°♍		
	2785 Aug 29 04:38	0°♎		
	2785 Sep 22 20:01	0°♏		
desc. node	2785 Sep 29 05:02	7°♏43'50		
	2785 Oct 17 15:50	0°♐		
	2785 Nov 11 18:34	0°♑		
	2785 Dec 07 11:08	0°♒		
	2786 Jan 03 15:56	0°♓		
evening max el	2786 Jan 07 16:31	4°♓09'17	47°14'49	
asc. node	2786 Jan 20 08:09	16°♓25'45		
	2786 Feb 06 07:25	0°♈		
greatest brilliancy	2786 Feb 17 06:16	5°♈45'57	-4.9m	
retrograde	2786 Feb 27 14:57	7°♈48'49		
evening set	2786 Mar 17 15:07	1°♈30'57		
min. Earth dist.	2786 Mar 20 00:44	0°♈01'40	0.27732 AU	
	2786 Mar 20 01:48	30°℞♓		
inferior conj	2786 Mar 20 12:55	29°♓42'38	8°48'34	
minimum elong	2786 Mar 20 15:27	29°♓38'40	8°48'29	
morning rise	2786 Mar 23 15:58	27°♓46'49		
direct	2786 Apr 10 08:25	21°♓46'35		
greatest brilliancy	2786 Apr 19 13:22	23°♓21'57	-4.8m	
	2786 May 02 16:28	0°♈		
desc. node	2786 May 11 21:35	6°♈43'47		
morning max el	2786 May 29 16:15	22°♈35'33	46°00'46	
	2786 Jun 06 03:56	0°♉		
	2786 Jul 04 06:56	0°♊		
	2786 Jul 30 17:05	0°♋		

	2786 Aug 25 05:53	0°♌	
asc. node	2786 Sep 02 00:57	9°♌18'50	
	2786 Sep 19 03:45	0°♍	
	2786 Oct 13 14:28	0°♎	
	2786 Nov 06 17:38	0°♏	
morning set	2786 Nov 23 11:05	20°♏56'14	
	2786 Nov 30 16:28	0°♐	
desc. node	2786 Dec 22 14:34	27°♐33'11	
	2786 Dec 24 13:16	0°♑	
superior conj	2787 Jan 03 01:51	11°♑58'52	-0°27'07
minimum elong	2787 Jan 02 18:53	11°♑37'00	0°26'47
max. Earth dist.	2787 Jan 03 06:32	12°♑13'36	1.71096 AU
	2787 Jan 17 09:31	0°♒	
	2787 Feb 10 06:26	0°♓	
evening rise	2787 Feb 13 09:19	3°♓54'55	
	2787 Mar 06 05:39	0°♈	
	2787 Mar 30 09:18	0°♉	
asc. node	2787 Apr 14 17:44	18°♉53'49	
	2787 Apr 23 19:44	0°♊	
	2787 May 18 15:37	0°♋	
	2787 Jun 13 01:07	0°♌	
	2787 Jul 09 09:16	0°♍	
desc. node	2787 Aug 04 07:17	27°♍34'36	
	2787 Aug 06 17:23	0°♎	
evening max el	2787 Aug 12 16:31	5°♎49'01	45°42'13
	2787 Sep 12 03:39	0°♏	
greatest brilliancy	2787 Sep 21 07:36	4°♏05'35	-4.8m
retrograde	2787 Sep 30 11:48	5°♏36'55	
evening set	2787 Oct 17 12:36	0°♏09'35	
	2787 Oct 17 19:10	30°℞♎	
inferior conj	2787 Oct 21 11:10	27°♎46'47	-7°23'56
minimum elong	2787 Oct 21 20:44	27°♎32'03	7°22'21
min. Earth dist.	2787 Oct 22 09:52	27°♎11'51	0.27714 AU
morning rise	2787 Oct 26 04:27	24°♎56'13	
direct	2787 Nov 11 13:23	19°♎46'28	
greatest brilliancy	2787 Nov 22 16:26	22°♎05'19	-4.9m
asc. node	2787 Nov 25 10:17	23°♎17'24	
	2787 Dec 06 10:51	0°♏	
morning max el	2788 Jan 01 05:38	23°♏02'55	46°53'46
	2788 Jan 07 22:09	0°♐	
	2788 Feb 03 20:18	0°♑	
	2788 Feb 29 07:45	0°♒	
desc. node	2788 Mar 16 00:04	18°♒49'55	
	2788 Mar 25 05:41	0°♓	
	2788 Apr 18 21:59	0°♈	
	2788 May 13 12:13	0°♉	
	2788 Jun 07 01:45	0°♊	
	2788 Jul 01 14:25	0°♋	
morning set	2788 Jul 04 01:33	3°♋01'01	
asc. node	2788 Jul 07 03:20	6°♋47'01	
	2788 Jul 26 01:16	0°♌	
max. Earth dist.	2788 Aug 07 04:16	14°♌55'25	1.73361 AU
superior conj	2788 Aug 09 12:45	17°♌49'26	1°08'30
minimum elong	2788 Aug 09 04:17	17°♌23'21	1°08'16
	2788 Aug 19 09:40	0°♍	
	2788 Sep 12 15:59	0°♎	
evening rise	2788 Sep 14 15:35	2°♎27'16	
	2788 Oct 06 21:21	0°♏	
desc. node	2788 Oct 26 16:53	24°♏32'12	
	2788 Oct 31 02:48	0°♐	
	2788 Nov 24 09:07	0°♑	
	2788 Dec 18 17:29	0°♒	
	2789 Jan 12 07:21	0°♓	
	2789 Feb 06 10:42	0°♈	
asc. node	2789 Feb 16 19:55	12°♈01'48	
	2789 Mar 04 21:46	0°♉	
evening max el	2789 Mar 20 08:11	16°♉07'14	46°23'07
	2789 Apr 04 05:37	0°♊	
greatest brilliancy	2789 Apr 28 06:27	15°♊42'15	-4.8m
retrograde	2789 May 09 02:26	17°♊51'42	
evening set	2789 May 24 11:45	13°♊15'19	
inferior conj	2789 May 30 11:28	9°♊37'28	2°06'37
minimum elong	2789 May 30 16:01	9°♊30'19	2°05'18
min. Earth dist.	2789 May 30 09:53	9°♊39'58	0.28665 AU
morning rise	2789 Jun 05 20:37	5°♊47'05	
desc. node	2789 Jun 08 09:27	4°♊29'04	
direct	2789 Jun 20 21:42	1°♊25'30	
greatest brilliancy	2789 Jun 30 23:26	3°♊14'57	-4.7m
	2789 Aug 07 11:03	0°♋	
morning max el	2789 Aug 08 13:25	1°♋02'33	45°43'18
	2789 Sep 05 15:06	0°♌	
asc. node	2789 Sep 29 12:47	26°♌59'07	
	2789 Oct 02 03:01	0°♍	
	2789 Oct 27 08:48	0°♎	
	2789 Nov 20 21:37	0°♏	
	2789 Dec 15 01:12	0°♐	
	2790 Jan 08 00:24	0°♑	
desc. node	2790 Jan 19 02:26	13°♑54'38	
	2790 Jan 31 22:01	0°♒	
morning set	2790 Feb 07 21:17	8°♒45'04	
	2790 Feb 24 19:45	0°♓	
superior conj	2790 Mar 20 19:42	0°♈02'11	-1°25'49
minimum elong	2790 Mar 20 22:20	0°♈10'24	1°25'48
	2790 Mar 20 19:00	0°♈	
max. Earth dist.	2790 Mar 24 21:45	5°♈08'05	1.71914 AU
	2790 Apr 13 21:10	0°♉	
evening rise	2790 Apr 29 07:13	19°♉05'50	
	2790 May 08 03:13	0°♊	
asc. node	2790 May 12 05:39	5°♊03'10	
	2790 Jun 01 13:38	0°♋	
	2790 Jun 26 04:54	0°♌	
	2790 Jul 21 02:19	0°♍	
	2790 Aug 15 08:58	0°♎	
desc. node	2790 Aug 31 19:03	19°♎07'31	
	2790 Sep 10 06:38	0°♏	
	2790 Oct 07 08:23	0°♐	
evening max el	2790 Oct 24 15:36	17°♐50'51	46°45'51
	2790 Nov 06 14:45	0°♑	
greatest brilliancy	2790 Dec 04 02:08	18°♑14'52	-4.9m
retrograde	2790 Dec 13 20:40	20°♑03'31	
asc. node	2790 Dec 22 22:19	18°♑22'39	
evening set	2790 Dec 28 05:24	15°♑58'32	
inferior conj	2791 Jan 03 10:02	12°♑22'02	2°56'41
minimum elong	2791 Jan 03 03:34	12°♑31'54	2°54'40
min. Earth dist.	2791 Jan 03 02:56	12°♑32'51	0.26478 AU
morning rise	2791 Jan 09 01:41	9°♑02'42	
direct	2791 Jan 23 18:32	4°♑43'54	
greatest brilliancy	2791 Feb 02 15:27	6°♑34'33	-4.9m
	2791 Mar 07 12:50	0°♒	
morning max el	2791 Mar 15 01:34	7°♒18'55	46°46'11
	2791 Apr 05 13:55	0°♓	
desc. node	2791 Apr 13 11:57	8°♓46'41	
	2791 May 02 03:16	0°♈	
	2791 May 27 19:27	0°♉	
	2791 Jun 22 01:35	0°♊	
	2791 Jul 17 01:01	0°♋	
asc. node	2791 Aug 04 15:08	22°♋32'01	
	2791 Aug 10 18:12	0°♌	
	2791 Sep 04 05:06	0°♍	
morning set	2791 Sep 11 02:01	8°♍28'53	
	2791 Sep 28 10:38	0°♎	

max. Earth dist.	2791 Oct 15	04:44	20°♎51'33	1.72120 AU	
superior conj	2791 Oct 18	03:42	24°♎32'56	1°13'33	
minimum elong	2791 Oct 18	12:23	25°♎00'00	1°13'20	
	2791 Oct 22	12:30	0°♏		
	2791 Nov 15	12:24	0°♐		
desc. node	2791 Nov 24	04:51	10°♐52'26		
evening rise	2791 Nov 26	09:00	13°♐35'39		
	2791 Dec 09	11:27	0°♑		
	2792 Jan 02	10:29	0°♒		
	2792 Jan 26	11:01	0°♓		
	2792 Feb 19	15:57	0°♈		
	2792 Mar 15	05:56	0°♉		
asc. node	2792 Mar 16	07:51	1°♉18'11		
	2792 Apr 09	12:01	0°♊		
	2792 May 05	23:46	0°♋		
evening max el	2792 May 29	22:54	24°♋49'35	45°30'31	
	2792 Jun 04	10:35	0°♌		
desc. node	2792 Jul 05	21:31	22°♌17'28		
greatest brilliancy	2792 Jul 06	22:24	22°♌41'16	-4.7m	
retrograde	2792 Jul 17	16:32	24°♌45'51		
evening set	2792 Aug 02	23:48	19°♌41'36		
inferior conj	2792 Aug 08	03:58	16°♌33'29	-6°48'11	
minimum elong	2792 Aug 07	18:19	16°♌48'33	6°46'27	
min. Earth dist.	2792 Aug 08	02:56	16°♌35'06	0.29033 AU	
morning rise	2792 Aug 12	12:44	13°♌53'13		
direct	2792 Aug 29	19:04	8°♌15'39		
greatest brilliancy	2792 Sep 09	08:59	10°♌17'16	-4.8m	
	2792 Oct 08	11:53	0°♍		
morning max el	2792 Oct 18	08:07	9°♍16'44	46°12'26	
asc. node	2792 Oct 27	00:37	18°♍05'18		
	2792 Nov 07	03:24	0°♎		
	2792 Dec 03	09:31	0°♏		
	2792 Dec 28	09:36	0°♐		
	2793 Jan 21	20:27	0°♑		
	2793 Feb 15	01:38	0°♒		
desc. node	2793 Feb 15	14:11	0°♒38'56		
	2793 Mar 11	04:56	0°♓		
	2793 Apr 04	08:28	0°♈		
morning set	2793 Apr 23	17:58	24°♈02'20		
	2793 Apr 28	13:35	0°♉		
	2793 May 22	20:46	0°♊		
superior conj	2793 May 31	13:05	10°♊41'34	-0°19'23	
minimum elong	2793 May 31	17:12	10°♊54'16	0°19'12	
max. Earth dist.	2793 Jun 02	02:32	12°♊36'50	1.73322 AU	
asc. node	2793 Jun 08	17:34	20°♊46'09		
	2793 Jun 16	05:44	0°♋		
evening rise	2793 Jul 07	05:53	25°♋48'29		
	2793 Jul 10	15:50	0°♌		
	2793 Aug 04	02:56	0°♍		
	2793 Aug 28	15:46	0°♎		
	2793 Sep 22	07:40	0°♏		
desc. node	2793 Sep 28	07:00	7°♏14'01		
	2793 Oct 17	04:15	0°♐		
	2793 Nov 11	08:12	0°♑		
	2793 Dec 07	02:59	0°♒		
	2794 Jan 03	13:11	0°♓		
evening max el	2794 Jan 05	08:02	1°♓49'52	47°15'17	
asc. node	2794 Jan 19	10:08	15°♓23'52		
	2794 Feb 07	17:59	0°♈		
greatest brilliancy	2794 Feb 14	20:53	3°♈24'25	-4.9m	
retrograde	2794 Feb 25	05:50	5°♈27'03		
	2794 Mar 13	20:01	30°♓		
evening set	2794 Mar 15	05:46	29°♓09'10		
min. Earth dist.	2794 Mar 17	13:49	27°♓42'12	0.27680 AU	
inferior conj	2794 Mar 18	02:59	27°♓21'35	8°51'23	
minimum elong	2794 Mar 18	04:40	27°♓18'58	8°51'20	
morning rise	2794 Mar 21	03:47	25°♓29'09		
direct	2794 Apr 07	22:27	19°♓26'41		
greatest brilliancy	2794 Apr 17	01:34	21°♓00'41	-4.8m	
	2794 May 03	15:27	0°♈		
desc. node	2794 May 10	23:38	5°♈38'33		
morning max el	2794 May 27	06:44	20°♈19'41	46°02'10	
	2794 Jun 05	23:40	0°♉		
	2794 Jul 03	21:42	0°♊		
	2794 Jul 30	05:50	0°♋		
	2794 Aug 24	17:39	0°♌		
asc. node	2794 Sep 01	02:55	8°♌50'02		
	2794 Sep 18	15:00	0°♍		
	2794 Oct 13	01:29	0°♎		
	2794 Nov 06	04:32	0°♏		
morning set	2794 Nov 21	00:06	18°♏32'30		
	2794 Nov 30	03:20	0°♐		
desc. node	2794 Dec 21	16:40	27°♐05'32		
	2794 Dec 24	00:09	0°♑		
superior conj	2794 Dec 31	11:54	9°♑25'15	-0°23'17	
minimum elong	2794 Dec 31	05:53	9°♑06'18	0°23'00	
max. Earth dist.	2794 Dec 31	11:04	9°♑22'38	1.71102 AU	
	2795 Jan 16	20:26	0°♒		
	2795 Feb 09	17:25	0°♓		
evening rise	2795 Feb 10	19:26	1°♓21'40		
	2795 Mar 05	16:41	0°♈		
	2795 Mar 29	20:27	0°♉		
asc. node	2795 Apr 13	19:50	18°♉25'35		
	2795 Apr 23	07:09	0°♊		
	2795 May 18	03:33	0°♋		
	2795 Jun 12	14:04	0°♌		
	2795 Jul 09	00:24	0°♍		
desc. node	2795 Aug 03	09:13	26°♍49'02		
	2795 Aug 06	14:24	0°♎		
evening max el	2795 Aug 10	06:03	3°♎32'03	45°40'30	
	2795 Sep 14	05:33	0°♏		
greatest brilliancy	2795 Sep 18	21:16	1°♏48'16	-4.8m	
retrograde	2795 Sep 28	00:38	3°♏19'10		
	2795 Oct 11	03:04	30°℞♎		
evening set	2795 Oct 15	05:24	27°♎47'18		
inferior conj	2795 Oct 19	01:19	25°♎28'18	-7°35'00	
minimum elong	2795 Oct 19	10:28	25°♎14'12	7°33'35	
min. Earth dist.	2795 Oct 20	00:17	24°♎52'55	0.27786 AU	
morning rise	2795 Oct 23	15:07	22°♎42'24		
direct	2795 Nov 09	03:43	17°♎26'45		
greatest brilliancy	2795 Nov 20	07:59	19°♎46'03	-4.9m	
asc. node	2795 Nov 24	12:25	21°♎40'58		
	2795 Dec 07	04:40	0°♏		
morning max el	2795 Dec 29	18:59	20°♏37'53	46°52'58	
	2796 Jan 07	17:59	0°♐		
	2796 Feb 03	11:42	0°♑		
	2796 Feb 28	21:17	0°♒		
desc. node	2796 Mar 15	02:09	18°♒17'34		
	2796 Mar 24	18:10	0°♓		
	2796 Apr 18	09:46	0°♈		
	2796 May 12	23:32	0°♉		
	2796 Jun 06	12:45	0°♊		
	2796 Jul 01	01:12	0°♋		
morning set	2796 Jul 01	19:33	0°♋56'13		
asc. node	2796 Jul 06	05:20	6°♋20'17		
	2796 Jul 25	11:56	0°♌		
max. Earth dist.	2796 Aug 04	23:56	12°♌55'26	1.73386 AU	
superior conj	2796 Aug 07	07:20	15°♌46'03	1°06'37	
minimum elong	2796 Aug 06	22:42	15°♌19'27	1°06'20	
	2796 Aug 18	20:19	0°♍		

evening rise	2796 Sep 12 09:02	0°♎19'23	
	2796 Sep 12 02:46	0°♎	
	2796 Oct 06 08:21	0°♏	
desc. node	2796 Oct 25 19:02	24°♏03'56	
	2796 Oct 30 14:09	0°♐	
	2796 Nov 23 20:53	0°♑	
	2796 Dec 18 05:48	0°♒	
	2797 Jan 11 20:27	0°♓	
	2797 Feb 06 01:14	0°♈	
asc. node	2797 Feb 15 21:54	11°♈23'12	
	2797 Mar 04 15:39	0°♉	
evening max el	2797 Mar 17 22:06	13°♉47'50	46°25'30
	2797 Apr 04 13:04	0°♊	
greatest brilliancy	2797 Apr 25 23:33	13°♊31'21	-4.8m
retrograde	2797 May 06 18:30	15°♊40'29	
evening set	2797 May 22 05:36	11°♊01'23	
inferior conj	2797 May 28 03:34	7°♊26'20	2°26'24
minimum elong	2797 May 28 08:46	7°♊18'08	2°24'54
min. Earth dist.	2797 May 28 02:30	7°♊28'00	0.28641 AU
morning rise	2797 Jun 03 12:12	3°♊36'35	
desc. node	2797 Jun 07 11:34	1°♊39'10	
	2797 Jun 12 08:05	30°℞♉	
direct	2797 Jun 18 12:42	29°♉14'28	
	2797 Jun 24 22:31	0°♊	
greatest brilliancy	2797 Jun 28 15:25	1°♊04'31	-4.7m
morning max el	2797 Aug 06 05:03	28°♊51'51	45°43'18
	2797 Aug 07 09:32	0°♋	
	2797 Sep 05 06:43	0°♌	
asc. node	2797 Sep 28 14:54	26°♌26'21	
	2797 Oct 01 16:17	0°♍	
	2797 Oct 26 21:00	0°♎	
	2797 Nov 20 09:18	0°♏	
	2797 Dec 14 12:39	0°♐	
	2798 Jan 07 11:44	0°♑	
desc. node	2798 Jan 18 04:24	13°♑25'24	
	2798 Jan 31 09:15	0°♒	
morning set	2798 Feb 05 06:53	6°♒09'19	
	2798 Feb 24 06:53	0°♓	
superior conj	2798 Mar 18 07:41	27°♓35'11	-1°26'11
minimum elong	2798 Mar 18 09:19	27°♓40'17	1°26'10
	2798 Mar 20 06:03	0°♈	
max. Earth dist.	2798 Mar 22 05:32	2°♈28'14	1.71859 AU
	2798 Apr 13 08:10	0°♉	
evening rise	2798 Apr 26 21:26	16°♉47'26	
	2798 May 07 14:15	0°♊	
asc. node	2798 May 11 07:46	4°♊35'39	
	2798 Jun 01 00:49	0°♋	
	2798 Jun 25 16:21	0°♌	
	2798 Jul 20 14:19	0°♍	
	2798 Aug 14 21:56	0°♎	
desc. node	2798 Aug 30 21:06	18°♎33'11	
	2798 Sep 09 21:24	0°♏	
	2798 Oct 07 03:03	0°♐	
evening max el	2798 Oct 22 05:11	15°♐28'13	46°43'42
	2798 Nov 06 23:12	0°♑	
greatest brilliancy	2798 Dec 01 14:37	15°♑45'57	-4.9m
retrograde	2798 Dec 11 09:18	17°♑34'35	
asc. node	2798 Dec 22 00:15	15°♑16'34	
evening set	2798 Dec 25 16:45	13°♑30'32	
inferior conj	2798 Dec 31 22:14	9°♑53'10	2°33'06
minimum elong	2798 Dec 31 16:32	10°♑01'49	2°31'19
min. Earth dist.	2798 Dec 31 16:16	10°♑02'14	0.26479 AU
morning rise	2799 Jan 06 16:19	6°♑31'00	
direct	2799 Jan 21 07:18	2°♑14'46	
greatest brilliancy	2799 Jan 31 05:12	4°♑06'55	-4.9m
	2799 Mar 07 15:14	0°♒	
morning max el	2799 Mar 12 16:04	4°♒56'45	46°47'21
	2799 Apr 05 07:24	0°♓	
desc. node	2799 Apr 12 14:04	8°♓06'43	
	2799 May 01 17:43	0°♈	
	2799 May 27 08:23	0°♉	
	2799 Jun 21 13:37	0°♊	
	2799 Jul 16 12:30	0°♋	
asc. node	2799 Aug 03 17:05	22°♋03'50	
	2799 Aug 10 05:21	0°♌	
	2799 Sep 03 16:05	0°♍	
morning set	2799 Sep 08 19:07	6°♍19'35	
	2799 Sep 27 21:34	0°♎	
max. Earth dist.	2799 Oct 12 19:56	18°♎35'07	1.72164 AU
superior conj	2799 Oct 15 19:14	22°♎17'26	1°15'13
minimum elong	2799 Oct 16 03:27	22°♎43'04	1°15'02
	2799 Oct 21 23:29	0°♏	
	2799 Nov 14 23:29	0°♐	
desc. node	2799 Nov 23 06:54	10°♐24'02	
evening rise	2799 Nov 23 21:34	11°♐09'55	
	2799 Dec 08 22:40	0°♑	
	2800 Jan 01 21:54	0°♒	
	2800 Jan 25 22:41	0°♓	
	2800 Feb 19 04:01	0°♈	
	2800 Mar 14 18:36	0°♉	
asc. node	2800 Mar 15 09:55	0°♉46'08	
	2800 Apr 09 01:53	0°♊	
	2800 May 05 16:21	0°♋	
evening max el	2800 May 27 15:42	22°♋40'18	45°31'31
	2800 Jun 04 12:09	0°♌	
greatest brilliancy	2800 Jul 04 13:20	20°♌30'21	-4.7m
desc. node	2800 Jul 04 23:25	20°♌39'30	
retrograde	2800 Jul 15 08:47	22°♌35'45	
evening set	2800 Jul 31 13:05	17°♌35'42	
inferior conj	2800 Aug 05 20:06	14°♌23'06	-6°35'42
minimum elong	2800 Aug 05 10:20	14°♌38'22	6°33'51
min. Earth dist.	2800 Aug 05 18:12	14°♌26'05	0.29037 AU
morning rise	2800 Aug 10 07:34	11°♌38'47	
direct	2800 Aug 27 11:54	6°♌05'26	
greatest brilliancy	2800 Sep 06 23:51	8°♌05'24	-4.8m
	2800 Oct 08 14:12	0°♍	
morning max el	2800 Oct 15 23:42	7°♍02'44	46°10'55
asc. node	2800 Oct 26 02:41	17°♍20'31	
	2800 Nov 06 20:19	0°♎	
	2800 Dec 02 23:39	0°♏	
	2800 Dec 27 22:28	0°♐	
	2801 Jan 21 08:38	0°♑	
desc. node	2801 Feb 14 16:17	0°♒08'57	
	2801 Feb 14 13:24	0°♒	
	2801 Mar 10 16:25	0°♓	
	2801 Apr 03 19:46	0°♈	
morning set	2801 Apr 21 08:42	21°♈44'53	
	2801 Apr 28 00:43	0°♉	
	2801 May 22 07:47	0°♊	
superior conj	2801 May 29 05:31	8°♊30'33	-0°22'38
minimum elong	2801 May 29 10:19	8°♊45'17	0°22'24
max. Earth dist.	2801 May 31 00:14	10°♊42'01	1.73290 AU
asc. node	2801 Jun 07 19:30	20°♊18'22	
	2801 Jun 15 16:41	0°♋	
evening rise	2801 Jul 05 00:11	23°♋43'33	
	2801 Jul 10 02:51	0°♌	
	2801 Aug 03 14:09	0°♍	
	2801 Aug 28 03:20	0°♎	
	2801 Sep 21 19:46	0°♏	
desc. node	2801 Sep 27 09:09	6°♏43'24	
	2801 Oct 16 17:08	0°♐	

	2801 Nov 10 22:19	0°♌		
	2801 Dec 06 19:23	0°♒		
evening max el	2802 Jan 02 23:00	29°♒28'20	47°15'43	
	2802 Jan 03 11:26	0°♓		
asc. node	2802 Jan 18 12:07	14°♓20'05		
	2802 Feb 09 23:06	0°♈		
greatest brilliancy	2802 Feb 12 12:00	1°♈03'04	-4.9m	
retrograde	2802 Feb 22 20:17	3°♈04'51		
	2802 Mar 07 02:27	30°℞♓		
evening set	2802 Mar 12 20:05	26°♓47'53		
min. Earth dist.	2802 Mar 15 03:23	25°♓21'59	0.27632 AU	
inferior conj	2802 Mar 15 17:14	25°♓00'17	8°53'10	
minimum elong	2802 Mar 15 18:03	24°♓59'01	8°53'09	
morning rise	2802 Mar 18 16:14	23°♓10'27		
direct	2802 Apr 05 12:17	17°♓06'26		
greatest brilliancy	2802 Apr 14 14:35	18°♓39'32	-4.8m	
	2802 May 04 08:51	0°♈		
desc. node	2802 May 10 01:45	4°♈34'17		
morning max el	2802 May 24 20:25	18°♈00'36	46°03'21	
	2802 Jun 05 19:16	0°♉		
	2802 Jul 03 12:45	0°♊		
	2802 Jul 29 18:57	0°♋		
	2802 Aug 24 05:46	0°♌		
asc. node	2802 Aug 31 05:04	8°♌20'44		
	2802 Sep 18 02:35	0°♍		
	2802 Oct 12 12:47	0°♎		
	2802 Nov 05 15:43	0°♏		
morning set	2802 Nov 18 13:11	16°♏08'07		
	2802 Nov 29 14:29	0°♐		
desc. node	2802 Dec 20 18:37	26°♐36'33		
	2802 Dec 23 11:19	0°♑		
superior conj	2802 Dec 28 22:16	6°♑51'49	-0°19'26	
minimum elong	2802 Dec 28 17:12	6°♑35'52	0°19'11	
max. Earth dist.	2802 Dec 28 13:33	6°♑24'22	1.71108 AU	
	2803 Jan 16 07:37	0°♒		
evening rise	2803 Feb 08 05:53	28°♒48'45		
	2803 Feb 09 04:35	0°♓		
	2803 Mar 05 03:54	0°♈		
	2803 Mar 29 07:48	0°♉		
asc. node	2803 Apr 12 21:54	17°♉56'37		
	2803 Apr 22 18:48	0°♊		
	2803 May 17 15:48	0°♋		
	2803 Jun 12 03:27	0°♌		
	2803 Jul 08 16:09	0°♍		
desc. node	2803 Aug 02 11:20	26°♍02'09		
	2803 Aug 06 12:42	0°♎		
evening max el	2803 Aug 07 19:03	1°♎12'48	45°38'59	
greatest brilliancy	2803 Sep 16 10:32	29°♎29'39	-4.8m	
	2803 Sep 18 03:53	0°♏		
retrograde	2803 Sep 25 13:43	1°♏00'50		
	2803 Oct 02 18:06	30°℞♎		
evening set	2803 Oct 12 22:01	25°♎24'13		
inferior conj	2803 Oct 16 15:26	23°♎09'04	-7°45'16	
minimum elong	2803 Oct 17 00:07	22°♎55'40	7°44'01	
min. Earth dist.	2803 Oct 17 14:34	22°♎33'25	0.27857 AU	
morning rise	2803 Oct 21 01:46	20°♎28'04		
direct	2803 Nov 06 17:59	15°♎06'12		
greatest brilliancy	2803 Nov 17 23:44	17°♎26'36	-4.9m	
asc. node	2803 Nov 23 14:24	20°♎07'07		
	2803 Dec 07 18:17	0°♏		
morning max el	2803 Dec 27 08:48	18°♏13'36	46°52'12	
	2804 Jan 07 13:27	0°♐		
	2804 Feb 03 03:04	0°♑		
	2804 Feb 28 10:49	0°♒		
desc. node	2804 Mar 14 04:15	17°♒45'08		
	2804 Mar 24 06:39	0°♓		
	2804 Apr 17 21:35	0°♈		
	2804 May 12 10:53	0°♉		
	2804 Jun 05 23:48	0°♊		
morning set	2804 Jun 29 13:26	28°♊50'36		
	2804 Jun 30 12:05	0°♋		
asc. node	2804 Jul 05 07:20	5°♋53'08		
	2804 Jul 24 22:45	0°♌		
max. Earth dist.	2804 Aug 02 20:08	10°♌56'33	1.73415 AU	
superior conj	2804 Aug 05 01:39	13°♌41'20	1°04'36	
minimum elong	2804 Aug 04 16:54	13°♌14'22	1°04'19	
	2804 Aug 18 07:09	0°♍		
evening rise	2804 Sep 10 02:16	28°♍10'24		
	2804 Sep 11 13:42	0°♎		
	2804 Oct 05 19:31	0°♏		
desc. node	2804 Oct 24 21:01	23°♏34'48		
	2804 Oct 30 01:38	0°♐		
	2804 Nov 23 08:46	0°♑		
	2804 Dec 17 18:13	0°♒		
	2805 Jan 11 09:40	0°♓		
	2805 Feb 05 15:57	0°♈		
asc. node	2805 Feb 15 00:04	10°♈44'45		
	2805 Mar 04 09:57	0°♉		
evening max el	2805 Mar 15 12:38	11°♉30'05	46°28'03	
	2805 Apr 04 23:09	0°♊		
greatest brilliancy	2805 Apr 23 16:03	11°♊20'09	-4.8m	
retrograde	2805 May 04 11:04	13°♊29'48		
evening set	2805 May 19 23:39	8°♊47'39		
inferior conj	2805 May 25 19:44	5°♊15'33	2°45'51	
minimum elong	2805 May 26 01:35	5°♊06'22	2°44'11	
min. Earth dist.	2805 May 25 18:51	5°♊16'56	0.28620 AU	
morning rise	2805 Jun 01 03:45	1°♊26'53		
	2805 Jun 03 23:46	30°℞♉		
desc. node	2805 Jun 06 13:28	28°♉54'19		
direct	2805 Jun 16 04:10	27°♉03'47		
greatest brilliancy	2805 Jun 26 07:09	28°♉54'20	-4.7m	
	2805 Jun 29 02:51	0°♊		
morning max el	2805 Aug 03 21:30	26°♊43'17	45°43'05	
	2805 Aug 07 07:06	0°♋		
	2805 Sep 04 22:08	0°♌		
asc. node	2805 Sep 27 16:56	25°♌53'18		
	2805 Oct 01 05:30	0°♍		
	2805 Oct 26 09:12	0°♎		
	2805 Nov 19 21:00	0°♏		
	2805 Dec 14 00:04	0°♐		
	2806 Jan 06 22:59	0°♑		
desc. node	2806 Jan 17 06:27	12°♑56'45		
	2806 Jan 30 20:23	0°♒		
morning set	2806 Feb 02 16:27	3°♒33'45		
	2806 Feb 23 17:54	0°♓		
superior conj	2806 Mar 15 19:34	25°♓08'04	-1°26'23	
minimum elong	2806 Mar 15 20:11	25°♓10'01	1°26'23	
max. Earth dist.	2806 Mar 19 14:19	29°♓51'38	1.71807 AU	
	2806 Mar 19 17:00	0°♈		
	2806 Apr 12 19:04	0°♉		
evening rise	2806 Apr 24 11:43	14°♉29'34		
	2806 May 07 01:09	0°♊		
asc. node	2806 May 10 09:43	4°♊08'07		
	2806 May 31 11:49	0°♋		
	2806 Jun 25 03:40	0°♌		
	2806 Jul 20 02:13	0°♍		
	2806 Aug 14 10:54	0°♎		
desc. node	2806 Aug 29 23:12	17°♎59'01		
	2806 Sep 09 12:19	0°♏		
	2806 Oct 06 22:14	0°♐		
evening max el	2806 Oct 19 19:33	13°♐07'42	46°41'29	

	2806 Nov 07 10:38	0°♌	
greatest brilliancy	2806 Nov 29 02:56	13°♌17'02	-4.9m
retrograde	2806 Dec 08 22:02	15°♌05'30	
asc. node	2806 Dec 21 02:16	12°♌05'29	
evening set	2806 Dec 23 04:20	11°♌02'31	
inferior conj	2806 Dec 29 10:19	7°♌24'22	2°09'09
minimum elong	2806 Dec 29 05:27	7°♌31'45	2°07'37
min. Earth dist.	2806 Dec 29 05:24	7°♌31'49	0.26476 AU
morning rise	2807 Jan 04 06:37	3°♌59'32	
	2807 Jan 15 11:50	30°℞♐	
direct	2807 Jan 18 20:17	29°♐46'03	
	2807 Jan 22 05:55	0°♌	
greatest brilliancy	2807 Jan 28 18:27	1°♌38'58	-4.9m
	2807 Mar 07 16:01	0°♒	
morning max el	2807 Mar 10 06:11	2°♒34'15	46°48'26
	2807 Apr 05 00:17	0°♓	
desc. node	2807 Apr 11 16:05	7°♓27'38	
	2807 May 01 07:46	0°♈	
	2807 May 26 20:59	0°♉	
	2807 Jun 21 01:21	0°♊	
	2807 Jul 15 23:41	0°♋	
asc. node	2807 Aug 02 19:17	21°♋37'17	
	2807 Aug 09 16:11	0°♌	
	2807 Sep 03 02:47	0°♍	
morning set	2807 Sep 06 12:23	4°♍11'40	
	2807 Sep 27 08:17	0°♎	
max. Earth dist.	2807 Oct 10 09:10	16°♎13'20	1.72216 AU
superior conj	2807 Oct 13 10:49	20°♎02'49	1°16'46
minimum elong	2807 Oct 13 18:30	20°♎26'46	1°16'36
	2807 Oct 21 10:17	0°♏	
	2807 Nov 14 10:25	0°♐	
evening rise	2807 Nov 21 09:51	8°♐43'46	
desc. node	2807 Nov 22 08:54	9°♐55'53	
	2807 Dec 08 09:44	0°♌	
	2808 Jan 01 09:08	0°♒	
	2808 Jan 25 10:10	0°♓	
	2808 Feb 18 15:50	0°♈	
asc. node	2808 Mar 14 11:58	0°♉14'49	
	2808 Mar 14 07:03	0°♉	
	2808 Apr 08 15:33	0°♊	
	2808 May 05 08:50	0°♋	
evening max el	2808 May 25 08:11	20°♋31'21	45°32'33
	2808 Jun 04 14:36	0°♌	
greatest brilliancy	2808 Jul 02 05:10	18°♌22'00	-4.7m
desc. node	2808 Jul 04 01:35	18°♌59'57	
retrograde	2808 Jul 13 00:52	20°♌27'32	
evening set	2808 Jul 29 02:43	15°♌31'39	
inferior conj	2808 Aug 03 12:30	12°♌14'46	-6°22'38
minimum elong	2808 Aug 03 02:40	12°♌30'10	6°20'43
min. Earth dist.	2808 Aug 03 10:01	12°♌18'40	0.29039 AU
morning rise	2808 Aug 08 02:36	9°♌26'19	
direct	2808 Aug 25 04:36	3°♌57'21	
greatest brilliancy	2808 Sep 04 15:10	5°♌55'46	-4.7m
	2808 Oct 08 14:37	0°♍	
morning max el	2808 Oct 13 14:22	4°♍47'50	46°09'15
asc. node	2808 Oct 25 04:41	16°♍37'25	
	2808 Nov 06 12:32	0°♎	
	2808 Dec 02 13:21	0°♏	
	2808 Dec 27 11:02	0°♐	
	2809 Jan 20 20:34	0°♌	
desc. node	2809 Feb 13 18:27	29°♌39'53	
	2809 Feb 14 00:55	0°♒	
	2809 Mar 10 03:38	0°♓	
	2809 Apr 03 06:44	0°♈	
morning set	2809 Apr 18 23:19	19°♈28'00	
	2809 Apr 27 11:29	0°♉	
	2809 May 21 18:25	0°♊	
superior conj	2809 May 26 22:05	6°♊21'00	-0°25'50
minimum elong	2809 May 27 03:31	6°♊37'43	0°25'35
max. Earth dist.	2809 May 28 21:19	8°♊46'27	1.73254 AU
asc. node	2809 Jun 06 21:35	19°♊52'06	
	2809 Jun 15 03:17	0°♋	
evening rise	2809 Jul 02 18:43	21°♋40'24	
	2809 Jul 09 13:31	0°♌	
	2809 Aug 03 00:59	0°♍	
	2809 Aug 27 14:30	0°♎	
	2809 Sep 21 07:28	0°♏	
desc. node	2809 Sep 26 11:11	6°♏13'42	
	2809 Oct 16 05:41	0°♐	
	2809 Nov 10 12:13	0°♌	
	2809 Dec 06 11:49	0°♒	
evening max el	2809 Dec 31 12:56	27°♒04'34	47°15'52
	2810 Jan 03 10:27	0°♓	
asc. node	2810 Jan 17 14:17	13°♓15'23	
greatest brilliancy	2810 Feb 10 03:21	28°♓41'43	-4.9m
	2810 Feb 14 10:14	0°♈	
retrograde	2810 Feb 20 10:07	0°♈42'21	
	2810 Feb 26 06:17	30°℞♓	
evening set	2810 Mar 10 09:39	24°♓27'08	
min. Earth dist.	2810 Mar 12 17:02	23°♓01'09	0.27581 AU
inferior conj	2810 Mar 13 07:15	22°♓38'52	8°53'58
minimum elong	2810 Mar 13 07:10	22°♓39'00	8°53'59
morning rise	2810 Mar 16 04:52	20°♓51'01	
direct	2810 Apr 03 01:20	14°♓45'54	
greatest brilliancy	2810 Apr 12 03:56	16°♓18'54	-4.8m
	2810 May 04 21:33	0°♈	
desc. node	2810 May 09 03:44	3°♈32'06	
morning max el	2810 May 22 09:27	15°♈40'36	46°04'47
	2810 Jun 05 13:55	0°♉	
	2810 Jul 03 03:11	0°♊	
	2810 Jul 29 07:34	0°♋	
	2810 Aug 23 17:27	0°♌	
asc. node	2810 Aug 30 07:04	7°♌52'15	
	2810 Sep 17 13:45	0°♍	
	2810 Oct 11 23:41	0°♎	
	2810 Nov 05 02:30	0°♏	
morning set	2810 Nov 16 02:49	13°♏46'41	
	2810 Nov 29 01:15	0°♐	
desc. node	2810 Dec 19 20:45	26°♐09'17	
	2810 Dec 22 22:08	0°♌	
superior conj	2810 Dec 26 08:48	4°♌19'58	-0°15'33
minimum elong	2810 Dec 26 04:43	4°♌07'08	0°15'22
behind sun begin	2810 Dec 25 19:44	3°♌38'52	
behind sun end	2810 Dec 26 13:42	4°♌35'24	
max. Earth dist.	2810 Dec 25 18:00	3°♌33'27	1.71127 AU
	2811 Jan 15 18:30	0°♒	
evening rise	2811 Feb 05 16:05	26°♒15'52	
	2811 Feb 08 15:31	0°♓	
	2811 Mar 04 14:54	0°♈	
	2811 Mar 28 18:56	0°♉	
asc. node	2811 Apr 11 23:52	17°♉28'02	
	2811 Apr 22 06:14	0°♊	
	2811 May 17 03:49	0°♋	
	2811 Jun 11 16:37	0°♌	
	2811 Jul 08 07:47	0°♍	
desc. node	2811 Aug 01 13:26	25°♍15'39	
evening max el	2811 Aug 05 08:32	28°♍56'05	45°37'39
	2811 Aug 06 11:25	0°♎	
greatest brilliancy	2811 Sep 13 23:26	27°♎12'29	-4.8m
retrograde	2811 Sep 23 03:39	28°♎44'46	
evening set	2811 Oct 10 14:45	23°♎03'26	

inferior conj	2811 Oct 14	05:48	20°♎51'52	-7°54'33	
minimum elong	2811 Oct 14	13:59	20°♎39'16	7°53'29	
min. Earth dist.	2811 Oct 15	04:42	20°♎16'38	0.27926 AU	
morning rise	2811 Oct 18	12:47	18°♎15'54		
direct	2811 Nov 04	08:49	12°♎47'49		
greatest brilliancy	2811 Nov 15	15:16	15°♎09'01	-4.9m	
asc. node	2811 Nov 22	16:25	18°♎38'21		
	2811 Dec 08	03:43	0°♏		
morning max el	2811 Dec 24	23:37	15°♏53'27	46°51'22	
	2812 Jan 07	07:55	0°♐		
	2812 Feb 02	17:51	0°♑		
	2812 Feb 27	23:58	0°♒		
desc. node	2812 Mar 13	06:12	17°♒13'06		
	2812 Mar 23	18:53	0°♓		
	2812 Apr 17	09:11	0°♈		
	2812 May 11	22:03	0°♉		
	2812 Jun 05	10:40	0°♊		
morning set	2812 Jun 27	07:11	26°♊45'15		
	2812 Jun 29	22:45	0°♋		
asc. node	2812 Jul 04	09:29	5°♋27'10		
	2812 Jul 24	09:18	0°♌		
max. Earth dist.	2812 Jul 31	18:17	9°♌04'29	1.73439 AU	
superior conj	2812 Aug 02	19:58	11°♌37'26	1°02'30	
minimum elong	2812 Aug 02	11:09	11°♌10'16	1°02'13	
	2812 Aug 17	17:44	0°♍		
evening rise	2812 Sep 07	19:49	26°♍03'13		
	2812 Sep 11	00:25	0°♎		
	2812 Oct 05	06:27	0°♏		
desc. node	2812 Oct 23	23:02	23°♏06'28		
	2812 Oct 29	12:53	0°♐		
	2812 Nov 22	20:24	0°♑		
	2812 Dec 17	06:22	0°♒		
	2813 Jan 10	22:40	0°♓		
	2813 Feb 05	06:35	0°♈		
asc. node	2813 Feb 14	02:02	10°♈06'06		
	2813 Mar 04	04:33	0°♉		
evening max el	2813 Mar 13	04:02	9°♉14'49	46°30'19	
	2813 Apr 05	12:43	0°♊		
greatest brilliancy	2813 Apr 21	08:06	9°♊08'10	-4.8m	
retrograde	2813 May 02	03:48	11°♊18'30		
evening set	2813 May 17	17:40	6°♊33'17		
inferior conj	2813 May 23	11:41	3°♊04'07	3°05'12	
minimum elong	2813 May 23	18:08	2°♊53'59	3°03'23	
min. Earth dist.	2813 May 23	10:42	3°♊05'39	0.28598 AU	
	2813 May 28	12:21	30°℞♉		
morning rise	2813 May 29	18:55	29°♉16'57		
desc. node	2813 Jun 05	15:37	26°♉13'06		
direct	2813 Jun 13	20:01	24°♉52'39		
greatest brilliancy	2813 Jun 23	22:13	26°♉43'09	-4.7m	
	2813 Jul 01	06:17	0°♊		
morning max el	2813 Aug 01	14:10	24°♊35'34	45°43'00	
	2813 Aug 07	03:48	0°♋		
	2813 Sep 04	13:09	0°♌		
asc. node	2813 Sep 26	18:56	25°♌20'50		
	2813 Sep 30	18:27	0°♍		
	2813 Oct 25	21:11	0°♎		
	2813 Nov 19	08:30	0°♏		
	2813 Dec 13	11:19	0°♐		
	2814 Jan 06	10:04	0°♑		
desc. node	2814 Jan 16	08:36	12°♑28'52		
	2814 Jan 30	07:20	0°♒		
morning set	2814 Jan 31	02:32	1°♒00'16		
	2814 Feb 23	04:46	0°♓		
superior conj	2814 Mar 13	07:36	22°♓41'46	-1°26'24	
minimum elong	2814 Mar 13	07:13	22°♓40'34	1°26'25	
max. Earth dist.	2814 Mar 17	02:20	27°♓25'27	1.71761 AU	
	2814 Mar 19	03:49	0°♈		
	2814 Apr 12	05:53	0°♉		
evening rise	2814 Apr 22	01:58	12°♉11'43		
	2814 May 06	12:01	0°♊		
asc. node	2814 May 09	11:48	3°♊41'01		
	2814 May 30	22:50	0°♋		
	2814 Jun 24	14:59	0°♌		
	2814 Jul 19	14:09	0°♍		
	2814 Aug 13	23:55	0°♎		
desc. node	2814 Aug 29	01:11	17°♎24'29		
	2814 Sep 09	03:22	0°♏		
	2814 Oct 06	17:53	0°♐		
evening max el	2814 Oct 17	10:10	10°♐48'09	46°39'12	
	2814 Nov 08	01:40	0°♑		
greatest brilliancy	2814 Nov 26	15:46	10°♑49'21	-4.9m	
retrograde	2814 Dec 06	10:35	12°♑36'53		
asc. node	2814 Dec 20	04:28	8°♑50'31		
evening set	2814 Dec 20	16:21	8°♑34'56		
inferior conj	2814 Dec 26	22:32	4°♑56'11	1°45'03	
minimum elong	2814 Dec 26	18:33	5°♑02'15	1°43'46	
min. Earth dist.	2814 Dec 26	18:52	5°♑01'47	0.26475 AU	
morning rise	2815 Jan 01	20:49	1°♑28'42		
	2815 Jan 04	20:25	30°℞♐		
direct	2815 Jan 16	09:16	27°♐18'00		
greatest brilliancy	2815 Jan 26	07:56	29°♐11'30	-4.9m	
	2815 Jan 28	08:59	0°♑		
	2815 Mar 07	15:34	0°♒		
morning max el	2815 Mar 07	19:25	0°♒09'39	46°49'31	
	2815 Apr 04	16:45	0°♓		
desc. node	2815 Apr 10	18:07	6°♓49'13		
	2815 Apr 30	21:37	0°♈		
	2815 May 26	09:31	0°♉		
	2815 Jun 20	13:06	0°♊		
	2815 Jul 15	10:56	0°♋		
asc. node	2815 Aug 01	21:16	21°♋09'44		
	2815 Aug 09	03:09	0°♌		
	2815 Sep 02	13:36	0°♍		
morning set	2815 Sep 04	05:31	2°♍03'08		
	2815 Sep 26	19:04	0°♎		
max. Earth dist.	2815 Oct 07	22:08	13°♎50'35	1.72265 AU	
superior conj	2815 Oct 11	02:29	17°♎48'23	1°18'10	
minimum elong	2815 Oct 11	09:36	18°♎10'33	1°18'02	
	2815 Oct 20	21:09	0°♏		
	2815 Nov 13	21:24	0°♐		
evening rise	2815 Nov 18	22:17	6°♐17'55		
desc. node	2815 Nov 21	11:00	9°♐27'51		
	2815 Dec 07	20:55	0°♑		
	2815 Dec 31	20:31	0°♒		
	2816 Jan 24	21:47	0°♓		
	2816 Feb 18	03:49	0°♈		
asc. node	2816 Mar 13	13:58	29°♈42'57		
	2816 Mar 13	19:39	0°♉		
	2816 Apr 08	05:25	0°♊		
	2816 May 05	01:47	0°♋		
evening max el	2816 May 22	23:40	18°♋19'25	45°33'29	
	2816 Jun 04	18:59	0°♌		
greatest brilliancy	2816 Jun 29	21:16	16°♌13'02	-4.7m	
desc. node	2816 Jul 03	03:39	17°♌15'51		
retrograde	2816 Jul 10	16:31	18°♌18'29		
evening set	2816 Jul 26	16:21	13°♌26'27		
inferior conj	2816 Aug 01	04:50	10°♌05'38	-6°09'02	
minimum elong	2816 Jul 31	18:58	10°♌21'06	6°07'02	
min. Earth dist.	2816 Aug 01	02:09	10°♌09'51	0.29041 AU	
morning rise	2816 Aug 05	21:33	7°♌13'02		
direct	2816 Aug 22	20:46	1°♌48'15		

greatest brilliancy	2816 Sep 02 07:08	3°♌45'57	-4.7m
	2816 Oct 08 14:15	0°♍	
morning max el	2816 Oct 11 04:18	2°♍30'23	46°07'46
asc. node	2816 Oct 24 06:47	15°♍54'25	
	2816 Nov 06 04:43	0°♎	
	2816 Dec 02 03:08	0°♏	
	2816 Dec 26 23:42	0°♐	
	2817 Jan 20 08:38	0°♑	
desc. node	2817 Feb 12 20:19	29°♑09'23	
	2817 Feb 13 12:36	0°♒	
	2817 Mar 09 15:02	0°♓	
	2817 Apr 02 17:54	0°♈	
morning set	2817 Apr 16 13:54	17°♈10'18	
	2817 Apr 26 22:27	0°♉	
	2817 May 21 05:15	0°♊	
superior conj	2817 May 24 14:46	4°♊11'09	-0°28'59
minimum elong	2817 May 24 20:48	4°♊29'46	0°28'43
max. Earth dist.	2817 May 26 17:25	6°♊47'09	1.73216 AU
asc. node	2817 Jun 05 23:42	19°♊25'18	
	2817 Jun 14 14:06	0°♋	
evening rise	2817 Jun 30 13:17	19°♋36'40	
	2817 Jul 09 00:26	0°♌	
	2817 Aug 02 12:08	0°♍	
	2817 Aug 27 02:01	0°♎	
	2817 Sep 20 19:33	0°♏	
desc. node	2817 Sep 25 13:09	5°♏42'44	
	2817 Oct 15 18:37	0°♐	
	2817 Nov 10 02:34	0°♑	
	2817 Dec 06 04:51	0°♒	
evening max el	2817 Dec 29 01:51	24°♒37'21	47°16'02
	2818 Jan 03 10:51	0°♓	
asc. node	2818 Jan 16 16:16	12°♓07'40	
greatest brilliancy	2818 Feb 07 18:27	26°♓18'52	-4.9m
retrograde	2818 Feb 17 23:50	28°♓18'48	
evening set	2818 Mar 07 22:37	22°♓05'45	
inferior conj	2818 Mar 10 21:12	20°♓16'10	8°53'51
minimum elong	2818 Mar 10 20:11	20°♓17'45	8°53'51
min. Earth dist.	2818 Mar 10 06:40	20°♓38'55	0.27532 AU
morning rise	2818 Mar 13 17:55	18°♓29'43	
direct	2818 Mar 31 14:06	12°♓23'48	
greatest brilliancy	2818 Apr 09 17:32	13°♓57'18	-4.8m
	2818 May 05 07:27	0°♈	
desc. node	2818 May 08 05:50	2°♈30'39	
morning max el	2818 May 19 22:49	13°♈20'15	46°06'23
	2818 Jun 05 08:27	0°♉	
	2818 Jul 02 17:47	0°♊	
	2818 Jul 28 20:26	0°♋	
	2818 Aug 23 05:25	0°♌	
asc. node	2818 Aug 29 09:04	7°♌22'44	
	2818 Sep 17 01:15	0°♍	
	2818 Oct 11 10:57	0°♎	
	2818 Nov 04 13:40	0°♏	
morning set	2818 Nov 13 16:18	11°♏23'39	
	2818 Nov 28 12:24	0°♐	
desc. node	2818 Dec 18 22:49	25°♐40'35	
	2818 Dec 22 09:19	0°♑	
max. Earth dist.	2818 Dec 23 01:18	0°♑50'17	1.71143 AU
superior conj	2818 Dec 23 19:07	1°♑46'19	-0°11'38
minimum elong	2818 Dec 23 16:03	1°♑36'41	0°11'29
behind sun begin	2818 Dec 22 21:12	0°♑37'24	
behind sun end	2818 Dec 24 10:54	2°♑35'59	
	2819 Jan 15 05:43	0°♒	
evening rise	2819 Feb 03 02:14	23°♒41'49	
	2819 Feb 08 02:47	0°♓	
	2819 Mar 04 02:14	0°♈	
	2819 Mar 28 06:27	0°♉	
asc. node	2819 Apr 11 01:59	16°♉58'45	
	2819 Apr 21 18:04	0°♊	
	2819 May 16 16:16	0°♋	
	2819 Jun 11 06:15	0°♌	
	2819 Jul 08 00:02	0°♍	
desc. node	2819 Jul 31 15:22	24°♍27'01	
evening max el	2819 Aug 02 22:39	26°♍40'01	45°36'21
	2819 Aug 06 11:37	0°♎	
greatest brilliancy	2819 Sep 11 11:36	24°♎53'36	-4.8m
retrograde	2819 Sep 20 17:59	26°♎27'24	
evening set	2819 Oct 08 07:15	20°♎41'36	
inferior conj	2819 Oct 11 20:04	18°♎33'14	-8°03'01
minimum elong	2819 Oct 12 03:41	18°♎21'31	8°02'07
min. Earth dist.	2819 Oct 12 18:18	17°♎59'03	0.27997 AU
morning rise	2819 Oct 15 23:46	16°♎02'15	
direct	2819 Nov 02 00:04	10°♎28'07	
greatest brilliancy	2819 Nov 13 06:10	12°♎49'19	-4.9m
asc. node	2819 Nov 21 18:34	17°♎11'20	
	2819 Dec 08 11:14	0°♏	
morning max el	2819 Dec 22 15:10	13°♏33'45	46°50'25
	2820 Jan 07 02:29	0°♐	
	2820 Feb 02 08:55	0°♑	
	2820 Feb 27 13:25	0°♒	
desc. node	2820 Mar 12 08:18	16°♒40'29	
	2820 Mar 23 07:23	0°♓	
	2820 Apr 16 21:05	0°♈	
	2820 May 11 09:32	0°♉	
	2820 Jun 04 21:52	0°♊	
morning set	2820 Jun 25 01:00	24°♊38'59	
	2820 Jun 29 09:45	0°♋	
asc. node	2820 Jul 03 11:28	4°♋59'34	
	2820 Jul 23 20:12	0°♌	
max. Earth dist.	2820 Jul 29 17:08	7°♌13'29	1.73457 AU
superior conj	2820 Jul 31 14:22	9°♌32'45	1°00'20
minimum elong	2820 Jul 31 05:31	9°♌05'31	1°00'01
	2820 Aug 17 04:38	0°♍	
evening rise	2820 Sep 05 13:31	23°♍55'33	
	2820 Sep 10 11:27	0°♎	
	2820 Oct 04 17:44	0°♏	
desc. node	2820 Oct 23 01:11	22°♏37'30	
	2820 Oct 29 00:31	0°♐	
	2820 Nov 22 08:29	0°♑	
	2820 Dec 16 19:01	0°♒	
	2821 Jan 10 12:13	0°♓	
	2821 Feb 04 21:51	0°♈	
asc. node	2821 Feb 13 04:03	9°♈26'00	
	2821 Mar 04 00:07	0°♉	
evening max el	2821 Mar 10 19:53	6°♉59'24	46°32'45
	2821 Apr 06 07:40	0°♊	
greatest brilliancy	2821 Apr 19 00:12	6°♊55'10	-4.8m
retrograde	2821 Apr 29 20:32	9°♊05'43	
evening set	2821 May 15 11:45	4°♊17'34	
inferior conj	2821 May 21 03:31	0°♊51'16	3°24'25
minimum elong	2821 May 21 10:32	0°♊40'16	3°22'28
min. Earth dist.	2821 May 21 02:11	0°♊53'21	0.28573 AU
	2821 May 22 12:17	30°℞♉	
morning rise	2821 May 27 09:45	27°♉05'47	
desc. node	2821 Jun 04 17:42	23°♉35'17	
direct	2821 Jun 11 12:01	22°♉40'21	
greatest brilliancy	2821 Jun 21 12:36	24°♉29'56	-4.7m
	2821 Jul 02 16:47	0°♊	
morning max el	2821 Jul 30 06:39	22°♊26'25	45°42'58
	2821 Aug 07 00:10	0°♋	
	2821 Sep 04 04:16	0°♌	
asc. node	2821 Sep 25 21:03	24°♌48'07	

	2821 Sep 30 07:33	0°♍	
	2821 Oct 25 09:22	0°♎	
	2821 Nov 18 20:14	0°♏	
	2821 Dec 12 22:50	0°♐	
	2822 Jan 05 21:27	0°♑	
desc. node	2822 Jan 15 10:32	11°♑59'19	
morning set	2822 Jan 28 12:09	28°♑24'19	
	2822 Jan 29 18:36	0°♒	
	2822 Feb 22 15:57	0°♓	
superior conj	2822 Mar 10 18:59	20°♓12'24	-1°26'17
minimum elong	2822 Mar 10 17:34	20°♓07'55	1°26'16
max. Earth dist.	2822 Mar 14 14:59	25°♓00'10	1.71710 AU
	2822 Mar 18 14:56	0°♈	
	2822 Apr 11 16:57	0°♉	
evening rise	2822 Apr 19 15:39	9°♉51'15	
	2822 May 05 23:07	0°♊	
asc. node	2822 May 08 13:54	3°♊13'16	
	2822 May 30 10:05	0°♋	
	2822 Jun 24 02:35	0°♌	
	2822 Jul 19 02:23	0°♍	
	2822 Aug 13 13:16	0°♎	
desc. node	2822 Aug 28 03:15	16°♎49'25	
	2822 Sep 08 18:49	0°♏	
	2822 Oct 06 14:17	0°♐	
evening max el	2822 Oct 15 00:06	8°♐26'42	46°36'50
	2822 Nov 08 21:55	0°♑	
greatest brilliancy	2822 Nov 24 05:00	8°♑21'57	-4.9m
retrograde	2822 Dec 03 22:32	10°♑07'53	
evening set	2822 Dec 18 04:35	6°♑06'41	
asc. node	2822 Dec 19 06:22	5°♑31'42	
inferior conj	2822 Dec 24 10:46	2°♑27'46	1°20'47
minimum elong	2822 Dec 24 07:41	2°♑32'28	1°19'47
min. Earth dist.	2822 Dec 24 08:37	2°♑31'02	0.26481 AU
	2822 Dec 28 13:46	30°℞♐	
morning rise	2822 Dec 30 10:47	28°♐57'37	
direct	2823 Jan 13 21:48	24°♐49'30	
greatest brilliancy	2823 Jan 23 21:56	26°♐43'56	-4.9m
	2823 Jan 30 21:50	0°♑	
morning max el	2823 Mar 05 07:48	27°♑41'55	46°50'27
	2823 Mar 07 14:26	0°♒	
	2823 Apr 04 09:14	0°♓	
desc. node	2823 Apr 09 20:13	6°♓10'31	
	2823 Apr 30 11:36	0°♈	
	2823 May 25 22:09	0°♉	
	2823 Jun 20 00:55	0°♊	
	2823 Jul 14 22:15	0°♋	
asc. node	2823 Jul 31 23:15	20°♋41'58	
	2823 Aug 08 14:10	0°♌	
morning set	2823 Sep 01 22:41	29°♌54'25	
	2823 Sep 02 00:29	0°♍	
	2823 Sep 26 05:57	0°♎	
max. Earth dist.	2823 Oct 05 11:32	11°♎29'03	1.72315 AU
superior conj	2823 Oct 08 18:28	15°♎34'48	1°19'27
minimum elong	2823 Oct 09 01:01	15°♎55'09	1°19'20
	2823 Oct 20 08:04	0°♏	
	2823 Nov 13 08:26	0°♐	
evening rise	2823 Nov 16 11:07	3°♐53'27	
desc. node	2823 Nov 20 13:03	8°♐59'38	
	2823 Dec 07 08:05	0°♑	
	2823 Dec 31 07:54	0°♒	
	2824 Jan 24 09:27	0°♓	
	2824 Feb 17 15:52	0°♈	
asc. node	2824 Mar 12 16:04	29°♈11'04	
	2824 Mar 13 08:23	0°♉	
	2824 Apr 07 19:31	0°♊	
	2824 May 04 19:10	0°♋	
evening max el	2824 May 20 14:25	16°♋05'29	45°34'42
	2824 Jun 05 01:27	0°♌	
greatest brilliancy	2824 Jun 27 13:16	14°♌03'56	-4.7m
desc. node	2824 Jul 02 05:33	15°♌27'55	
retrograde	2824 Jul 08 08:19	16°♌09'47	
evening set	2824 Jul 24 06:07	11°♌21'05	
inferior conj	2824 Jul 29 21:13	7°♌56'44	-5°55'00
minimum elong	2824 Jul 29 11:23	8°♌12'09	5°52'54
min. Earth dist.	2824 Jul 29 18:26	8°♌01'06	0.29042 AU
morning rise	2824 Aug 03 16:34	5°♌00'09	
	2824 Aug 16 07:36	30°℞♋	
direct	2824 Aug 20 12:36	29°♋39'14	
	2824 Aug 24 19:39	0°♌	
greatest brilliancy	2824 Aug 30 23:35	1°♌36'57	-4.7m
	2824 Oct 08 12:49	0°♍	
morning max el	2824 Oct 08 18:39	0°♍14'15	46°06'22
asc. node	2824 Oct 23 08:50	15°♍12'03	
	2824 Nov 05 20:32	0°♎	
	2824 Dec 01 16:40	0°♏	
	2824 Dec 26 12:10	0°♐	
	2825 Jan 19 20:29	0°♑	
desc. node	2825 Feb 11 22:27	28°♑40'13	
	2825 Feb 13 00:05	0°♒	
	2825 Mar 09 02:16	0°♓	
	2825 Apr 02 04:55	0°♈	
morning set	2825 Apr 14 04:10	14°♈51'51	
	2825 Apr 26 09:18	0°♉	
	2825 May 20 16:00	0°♊	
superior conj	2825 May 22 07:07	2°♊00'35	-0°32'08
minimum elong	2825 May 22 13:45	2°♊21'01	0°31'49
max. Earth dist.	2825 May 24 10:58	4°♊40'20	1.73178 AU
asc. node	2825 Jun 05 01:40	18°♊58'21	
	2825 Jun 14 00:48	0°♋	
evening rise	2825 Jun 28 07:32	17°♋32'28	
	2825 Jul 08 11:12	0°♌	
	2825 Aug 01 23:07	0°♍	
	2825 Aug 26 13:22	0°♎	
	2825 Sep 20 07:30	0°♏	
desc. node	2825 Sep 24 15:17	5°♏12'46	
	2825 Oct 15 07:28	0°♐	
	2825 Nov 09 16:53	0°♑	
	2825 Dec 05 21:58	0°♒	
evening max el	2825 Dec 26 15:05	22°♒11'55	47°16'15
	2826 Jan 03 12:05	0°♓	
asc. node	2826 Jan 15 18:17	10°♓59'17	
greatest brilliancy	2826 Feb 05 09:03	23°♓56'29	-4.9m
retrograde	2826 Feb 15 14:02	25°♓56'37	
evening set	2826 Mar 05 11:10	19°♓46'05	
inferior conj	2826 Mar 08 11:12	17°♓54'36	8°52'47
minimum elong	2826 Mar 08 09:17	17°♓57'34	8°52'43
min. Earth dist.	2826 Mar 07 20:06	18°♓18'10	0.27485 AU
morning rise	2826 Mar 11 07:34	16°♓08'54	
direct	2826 Mar 29 03:07	10°♓02'47	
greatest brilliancy	2826 Apr 07 06:56	11°♓36'44	-4.8m
	2826 May 05 14:13	0°♈	
desc. node	2826 May 07 07:54	1°♈31'40	
morning max el	2826 May 17 13:06	11°♈02'58	46°07'52
	2826 Jun 05 02:14	0°♉	
	2826 Jul 02 07:57	0°♊	
	2826 Jul 28 08:57	0°♋	
	2826 Aug 22 17:04	0°♌	
asc. node	2826 Aug 28 11:14	6°♌54'40	
	2826 Sep 16 12:25	0°♍	
	2826 Oct 10 21:52	0°♎	
	2826 Nov 04 00:30	0°♏	

morning set	2826 Nov 11 05:58	9°♏02'15	
	2826 Nov 27 23:15	0°♐	
desc. node	2826 Dec 18 00:47	25°♐12'32	
max. Earth dist.	2826 Dec 20 10:47	28°♐14'55	1.71161 AU
superior conj	2826 Dec 21 05:37	29°♐14'08	-0°07'42
minimum elong	2826 Dec 21 03:35	29°♐07'45	0°07'36
behind sun begin	2826 Dec 20 04:11	27°♐54'11	
behind sun end	2826 Dec 22 02:58	0°♑21'20	
	2826 Dec 21 20:11	0°♑	
	2827 Jan 14 16:37	0°♒	
evening rise	2827 Jan 31 12:38	21°♒09'35	
	2827 Feb 07 13:42	0°♓	
	2827 Mar 03 13:12	0°♈	
	2827 Mar 27 17:34	0°♉	
asc. node	2827 Apr 10 04:02	16°♉30'36	
	2827 Apr 21 05:31	0°♊	
	2827 May 16 04:21	0°♋	
	2827 Jun 10 19:36	0°♌	
	2827 Jul 07 16:11	0°♍	
desc. node	2827 Jul 30 17:30	23°♍39'04	
evening max el	2827 Jul 31 13:52	24°♍27'49	45°35'09
	2827 Aug 06 12:33	0°♎	
greatest brilliancy	2827 Sep 08 23:53	22°♎36'28	-4.8m
retrograde	2827 Sep 18 08:29	24°♎11'35	
evening set	2827 Oct 05 23:45	18°♎21'55	
inferior conj	2827 Oct 09 10:30	16°♎16'22	-8°10'40
minimum elong	2827 Oct 09 17:31	16°♎05'35	8°09'55
min. Earth dist.	2827 Oct 10 07:47	15°♎43'37	0.28065 AU
morning rise	2827 Oct 13 10:59	13°♎50'04	
direct	2827 Oct 30 15:46	8°♎10'26	
greatest brilliancy	2827 Nov 10 20:30	10°♎30'37	-4.8m
asc. node	2827 Nov 20 20:32	15°♎48'22	
	2827 Dec 08 16:00	0°♏	
morning max el	2827 Dec 20 06:47	11°♏15'44	46°49'16
	2828 Jan 06 20:10	0°♐	
	2828 Feb 01 23:23	0°♑	
	2828 Feb 27 02:22	0°♒	
desc. node	2828 Mar 11 10:22	16°♒09'08	
	2828 Mar 22 19:25	0°♓	
	2828 Apr 16 08:31	0°♈	
	2828 May 10 20:33	0°♉	
	2828 Jun 04 08:36	0°♊	
morning set	2828 Jun 22 18:58	22°♊34'36	
	2828 Jun 28 20:19	0°♋	
asc. node	2828 Jul 02 13:29	4°♋33'27	
	2828 Jul 23 06:41	0°♌	
max. Earth dist.	2828 Jul 27 15:24	5°♌22'03	1.73477 AU
superior conj	2828 Jul 29 08:46	7°♌29'21	0°58'05
minimum elong	2828 Jul 28 23:57	7°♌02'12	0°57'45
	2828 Aug 16 15:09	0°♍	
evening rise	2828 Sep 03 07:12	21°♍49'02	
	2828 Sep 09 22:06	0°♎	
	2828 Oct 04 04:39	0°♏	
desc. node	2828 Oct 22 03:09	22°♏09'10	
	2828 Oct 28 11:46	0°♐	
	2828 Nov 21 20:10	0°♑	
	2828 Dec 16 07:20	0°♒	
	2829 Jan 10 01:30	0°♓	
	2829 Feb 04 12:56	0°♈	
asc. node	2829 Feb 12 06:12	8°♈47'01	
	2829 Mar 03 19:49	0°♉	
evening max el	2829 Mar 08 11:59	4°♉45'41	46°35'07
	2829 Apr 07 08:36	0°♊	
greatest brilliancy	2829 Apr 16 17:07	4°♊44'30	-4.8m
retrograde	2829 Apr 27 13:08	6°♊54'21	
evening set	2829 May 13 06:05	2°♊03'27	
	2829 May 16 16:29	30°℞♉	
inferior conj	2829 May 18 19:29	28°♉40'09	3°43'18
minimum elong	2829 May 19 03:02	28°♉28'18	3°41'14
min. Earth dist.	2829 May 18 17:55	28°♉42'36	0.28544 AU
morning rise	2829 May 25 00:27	24°♉56'22	
desc. node	2829 Jun 03 19:35	21°♉04'13	
direct	2829 Jun 09 04:04	20°♉29'57	
greatest brilliancy	2829 Jun 19 02:51	22°♉18'11	-4.7m
	2829 Jul 03 16:25	0°♊	
morning max el	2829 Jul 27 22:25	20°♊17'03	45°42'51
	2829 Aug 06 19:20	0°♋	
	2829 Sep 03 18:43	0°♌	
asc. node	2829 Sep 24 23:04	24°♌16'24	
	2829 Sep 29 20:12	0°♍	
	2829 Oct 24 21:10	0°♎	
	2829 Nov 18 07:36	0°♏	
	2829 Dec 12 09:58	0°♐	
	2830 Jan 05 08:26	0°♑	
desc. node	2830 Jan 14 12:37	11°♑31'26	
morning set	2830 Jan 25 21:46	25°♑49'34	
	2830 Jan 29 05:30	0°♒	
	2830 Feb 22 02:47	0°♓	
superior conj	2830 Mar 08 06:20	17°♓43'52	-1°25'58
minimum elong	2830 Mar 08 03:51	17°♓36'05	1°25'57
max. Earth dist.	2830 Mar 12 03:02	22°♓33'53	1.71660 AU
	2830 Mar 18 01:43	0°♈	
	2830 Apr 11 03:43	0°♉	
evening rise	2830 Apr 17 05:11	7°♉31'11	
	2830 May 05 09:54	0°♊	
asc. node	2830 May 07 15:51	2°♊46'05	
	2830 May 29 21:00	0°♋	
	2830 Jun 23 13:50	0°♌	
	2830 Jul 18 14:17	0°♍	
	2830 Aug 13 02:21	0°♎	
desc. node	2830 Aug 27 05:20	16°♎15'10	
	2830 Sep 08 10:10	0°♏	
	2830 Oct 06 11:04	0°♐	
evening max el	2830 Oct 12 13:12	6°♐03'59	46°34'21
	2830 Nov 10 01:02	0°♑	
greatest brilliancy	2830 Nov 21 18:49	5°♑55'54	-4.9m
retrograde	2830 Dec 01 10:04	7°♑39'48	
evening set	2830 Dec 15 17:01	3°♑38'47	
asc. node	2830 Dec 18 08:25	2°♑10'23	
inferior conj	2830 Dec 21 23:01	0°♑00'16	0°56'17
minimum elong	2830 Dec 21 20:52	0°♑03'34	0°55'35
	2830 Dec 21 23:12	30°℞♐	
min. Earth dist.	2830 Dec 21 22:47	0°♑00'38	0.26490 AU
morning rise	2830 Dec 28 00:34	26°♐27'41	
direct	2831 Jan 11 09:51	22°♐21'37	
greatest brilliancy	2831 Jan 21 12:31	24°♐17'50	-4.9m
	2831 Feb 01 12:03	0°♑	
morning max el	2831 Mar 02 19:45	25°♑13'41	46°51'24
	2831 Mar 07 12:07	0°♒	
	2831 Apr 04 01:09	0°♓	
desc. node	2831 Apr 08 22:14	5°♓32'39	
	2831 Apr 30 01:11	0°♈	
	2831 May 25 10:29	0°♉	
	2831 Jun 19 12:28	0°♊	
	2831 Jul 14 09:18	0°♋	
asc. node	2831 Jul 31 01:25	20°♋15'33	
	2831 Aug 08 00:55	0°♌	
morning set	2831 Aug 30 16:05	27°♌47'19	
	2831 Sep 01 11:07	0°♍	
	2831 Sep 25 16:35	0°♎	
max. Earth dist.	2831 Oct 03 03:24	9°♎15'56	1.72370 AU

superior conj	2831 Oct 06 10:41	13°♎22'38	1°20'35
minimum elong	2831 Oct 06 16:35	13°♎41'02	1°20'30
	2831 Oct 19 18:48	0°♏	
	2831 Nov 12 19:19	0°♐	
evening rise	2831 Nov 14 00:05	1°♐29'53	
desc. node	2831 Nov 19 15:02	8°♐31'37	
	2831 Dec 06 19:09	0°♑	
	2831 Dec 30 19:10	0°♒	
	2832 Jan 23 20:59	0°♓	
	2832 Feb 17 03:49	0°♈	
asc. node	2832 Mar 11 18:05	28°♈39'12	
	2832 Mar 12 21:03	0°♉	
	2832 Apr 07 09:39	0°♊	
	2832 May 04 12:52	0°♋	
evening max el	2832 May 18 05:09	13°♋51'44	45°36'01
	2832 Jun 05 10:19	0°♌	
greatest brilliancy	2832 Jun 25 04:55	11°♌54'42	-4.7m
desc. node	2832 Jul 01 07:44	13°♌36'32	
retrograde	2832 Jul 06 00:37	14°♌01'40	
evening set	2832 Jul 21 20:01	9°♌15'51	
inferior conj	2832 Jul 27 13:38	5°♌48'18	-5°40'20
minimum elong	2832 Jul 27 03:53	6°♌03'32	5°38'11
min. Earth dist.	2832 Jul 27 10:40	5°♌52'55	0.29040 AU
morning rise	2832 Aug 01 11:37	2°♌47'57	
	2832 Aug 06 22:11	30°℞♋	
direct	2832 Aug 18 04:20	27°♋30'40	
greatest brilliancy	2832 Aug 28 16:02	29°♋28'42	-4.7m
	2832 Aug 30 01:04	0°♌	
morning max el	2832 Oct 06 09:49	28°♌00'51	46°05'01
	2832 Oct 08 10:17	0°♍	
asc. node	2832 Oct 22 10:50	14°♍30'32	
	2832 Nov 05 11:58	0°♎	
	2832 Dec 01 06:02	0°♏	
	2832 Dec 26 00:34	0°♐	
	2833 Jan 19 08:22	0°♑	
desc. node	2833 Feb 11 00:34	28°♑10'53	
	2833 Feb 12 11:37	0°♒	
	2833 Mar 08 13:31	0°♓	
	2833 Apr 01 15:57	0°♈	
morning set	2833 Apr 11 17:57	12°♈31'41	
	2833 Apr 25 20:10	0°♉	
superior conj	2833 May 19 23:10	29°♉48'54	-0°35'15
minimum elong	2833 May 20 06:22	0°♊11'05	0°34'55
	2833 May 20 02:46	0°♊	
max. Earth dist.	2833 May 22 03:55	2°♊31'31	1.73141 AU
asc. node	2833 Jun 04 03:42	18°♊31'30	
	2833 Jun 13 11:35	0°♋	
evening rise	2833 Jun 26 01:42	15°♋27'47	
	2833 Jul 07 22:04	0°♌	
	2833 Aug 01 10:10	0°♍	
	2833 Aug 26 00:47	0°♎	
	2833 Sep 19 19:30	0°♏	
desc. node	2833 Sep 23 17:17	4°♏42'18	
	2833 Oct 14 20:25	0°♐	
	2833 Nov 09 07:24	0°♑	
	2833 Dec 05 15:35	0°♒	
evening max el	2833 Dec 24 05:08	19°♒48'00	47°16'12
	2834 Jan 03 15:03	0°♓	
asc. node	2834 Jan 14 20:26	9°♓48'10	
greatest brilliancy	2834 Feb 02 22:49	21°♓31'38	-4.9m
retrograde	2834 Feb 13 04:28	23°♓32'31	
evening set	2834 Mar 02 22:50	17°♓25'09	
min. Earth dist.	2834 Mar 05 08:55	15°♓55'45	0.27437 AU
inferior conj	2834 Mar 06 00:49	15°♓30'59	8°50'34
minimum elong	2834 Mar 05 22:02	15°♓35'20	8°50'28
morning rise	2834 Mar 08 21:23	13°♓45'17	
direct	2834 Mar 26 16:11	7°♓39'50	
greatest brilliancy	2834 Apr 04 19:30	9°♓13'45	-4.8m
	2834 May 05 19:17	0°♈	
desc. node	2834 May 06 09:53	0°♈32'53	
morning max el	2834 May 15 03:56	8°♈46'09	46°09'24
	2834 Jun 04 19:51	0°♉	
	2834 Jul 01 22:10	0°♊	
	2834 Jul 27 21:37	0°♋	
	2834 Aug 22 04:53	0°♌	
asc. node	2834 Aug 27 13:10	6°♌25'23	
	2834 Sep 15 23:46	0°♍	
	2834 Oct 10 08:57	0°♎	
	2834 Nov 03 11:29	0°♏	
morning set	2834 Nov 08 20:11	6°♏42'14	
	2834 Nov 27 10:14	0°♐	
desc. node	2834 Dec 17 02:54	24°♐44'34	
max. Earth dist.	2834 Dec 17 21:46	25°♐43'50	1.71181 AU
superior conj	2834 Dec 18 16:28	26°♐42'38	-0°03'47
minimum elong	2834 Dec 18 15:27	26°♐39'27	0°03'45
behind sun begin	2834 Dec 17 13:56	25°♐19'13	
behind sun end	2834 Dec 19 16:58	27°♐59'42	
	2834 Dec 21 07:14	0°♑	
	2835 Jan 14 03:43	0°♒	
evening rise	2835 Jan 28 22:59	18°♒36'21	
	2835 Feb 07 00:52	0°♓	
	2835 Mar 03 00:29	0°♈	
	2835 Mar 27 05:02	0°♉	
asc. node	2835 Apr 09 05:59	16°♉01'00	
	2835 Apr 20 17:20	0°♊	
	2835 May 15 16:51	0°♋	
	2835 Jun 10 09:26	0°♌	
	2835 Jul 07 09:02	0°♍	
evening max el	2835 Jul 29 05:27	22°♍15'25	45°33'58
desc. node	2835 Jul 29 19:34	22°♍49'03	
	2835 Aug 06 15:22	0°♎	
greatest brilliancy	2835 Sep 06 12:38	20°♎19'03	-4.8m
retrograde	2835 Sep 15 22:37	21°♎54'51	
evening set	2835 Oct 03 16:08	16°♎01'56	
inferior conj	2835 Oct 07 00:59	13°♎58'53	-8°17'32
minimum elong	2835 Oct 07 07:20	13°♎49'05	8°16'55
min. Earth dist.	2835 Oct 07 21:22	13°♎27'26	0.28126 AU
morning rise	2835 Oct 10 22:17	11°♎37'00	
direct	2835 Oct 28 07:25	5°♎52'21	
greatest brilliancy	2835 Nov 08 10:31	8°♎10'54	-4.8m
asc. node	2835 Nov 19 22:34	14°♎27'28	
	2835 Dec 08 19:16	0°♏	
morning max el	2835 Dec 17 21:43	8°♏55'30	46°48'11
	2836 Jan 06 13:40	0°♐	
	2836 Feb 01 13:55	0°♑	
	2836 Feb 26 15:30	0°♒	
desc. node	2836 Mar 10 12:20	15°♒36'36	
	2836 Mar 22 07:44	0°♓	
	2836 Apr 15 20:18	0°♈	
	2836 May 10 07:58	0°♉	
	2836 Jun 03 19:44	0°♊	
morning set	2836 Jun 20 12:34	20°♊27'51	
	2836 Jun 28 07:15	0°♋	
asc. node	2836 Jul 01 15:36	4°♋06'26	
	2836 Jul 22 17:33	0°♌	
max. Earth dist.	2836 Jul 25 12:35	3°♌26'08	1.73492 AU
superior conj	2836 Jul 27 02:55	5°♌24'01	0°55'43
minimum elong	2836 Jul 26 18:10	4°♌57'08	0°55'24
	2836 Aug 16 02:03	0°♍	
evening rise	2836 Sep 01 00:49	19°♍41'08	
	2836 Sep 09 09:11	0°♎	

	2836 Oct 03 15:58	0°♏	
desc. node	2836 Oct 21 05:10	21°♏39'48	
	2836 Oct 27 23:25	0°♐	
	2836 Nov 21 08:13	0°♑	
	2836 Dec 15 19:58	0°♒	
	2837 Jan 09 15:07	0°♓	
	2837 Feb 04 04:30	0°♈	
asc. node	2837 Feb 11 08:09	8°♈06'18	
	2837 Mar 03 16:31	0°♉	
evening max el	2837 Mar 06 03:27	2°♉29'11	46°37'12
	2837 Apr 08 21:11	0°♊	
greatest brilliancy	2837 Apr 14 10:24	2°♊32'37	-4.8m
retrograde	2837 Apr 25 05:01	4°♊41'05	
	2837 May 10 15:32	30°℞♉	
evening set	2837 May 11 00:25	29°♉47'22	
inferior conj	2837 May 16 11:21	26°♉27'17	4°01'54
minimum elong	2837 May 16 19:23	26°♉14'38	3°59'45
min. Earth dist.	2837 May 16 09:53	26°♉29'35	0.28518 AU
morning rise	2837 May 22 14:50	22°♉45'15	
desc. node	2837 Jun 02 21:46	18°♉35'52	
direct	2837 Jun 06 19:43	18°♉17'42	
greatest brilliancy	2837 Jun 16 17:29	20°♉04'54	-4.7m
	2837 Jul 04 10:41	0°♊	
morning max el	2837 Jul 25 13:19	18°♊03'56	45°42'49
	2837 Aug 06 14:32	0°♋	
	2837 Sep 03 09:29	0°♌	
asc. node	2837 Sep 24 01:04	23°♌43'27	
	2837 Sep 29 09:11	0°♍	
	2837 Oct 24 09:19	0°♎	
	2837 Nov 17 19:20	0°♏	
	2837 Dec 11 21:27	0°♐	
	2838 Jan 04 19:45	0°♑	
desc. node	2838 Jan 13 14:44	11°♑02'37	
morning set	2838 Jan 23 07:48	23°♑14'58	
	2838 Jan 28 16:42	0°♒	
	2838 Feb 21 13:54	0°♓	
superior conj	2838 Mar 05 18:03	15°♓15'36	-1°25'29
minimum elong	2838 Mar 05 14:33	15°♓04'38	1°25'28
max. Earth dist.	2838 Mar 09 14:04	20°♓03'38	1.71610 AU
	2838 Mar 17 12:47	0°♈	
	2838 Apr 10 14:46	0°♉	
evening rise	2838 Apr 14 18:49	5°♉10'22	
	2838 May 04 21:00	0°♊	
asc. node	2838 May 06 17:57	2°♊18'17	
	2838 May 29 08:18	0°♋	
	2838 Jun 23 01:31	0°♌	
	2838 Jul 18 02:40	0°♍	
	2838 Aug 12 15:59	0°♎	
desc. node	2838 Aug 26 07:19	15°♎39'06	
	2838 Sep 08 02:13	0°♏	
	2838 Oct 06 09:07	0°♐	
evening max el	2838 Oct 10 01:28	3°♐38'12	46°31'55
	2838 Nov 11 16:26	0°♑	
greatest brilliancy	2838 Nov 19 08:37	3°♑28'37	-4.9m
retrograde	2838 Nov 28 21:32	5°♑10'46	
evening set	2838 Dec 13 05:35	1°♑09'10	
	2838 Dec 15 07:47	30°℞♐	
asc. node	2838 Dec 17 10:35	28°♐45'23	
inferior conj	2838 Dec 19 11:13	27°♐31'37	0°31'40
minimum elong	2838 Dec 19 10:00	27°♐33'29	0°31'17
min. Earth dist.	2838 Dec 19 13:03	27°♐28'51	0.26502 AU
morning rise	2838 Dec 25 14:07	23°♐57'01	
direct	2839 Jan 08 21:39	19°♐52'16	
greatest brilliancy	2839 Jan 19 03:24	21°♐50'59	-4.9m
	2839 Feb 02 15:29	0°♑	
morning max el	2839 Feb 28 08:15	22°♑45'53	46°52'36
	2839 Mar 07 09:20	0°♒	
	2839 Apr 03 17:02	0°♓	
desc. node	2839 Apr 08 00:17	4°♓54'36	
	2839 Apr 29 14:52	0°♈	
	2839 May 24 22:58	0°♉	
	2839 Jun 19 00:14	0°♊	
	2839 Jul 13 20:38	0°♋	
asc. node	2839 Jul 30 03:23	19°♋47'32	
	2839 Aug 07 12:00	0°♌	
morning set	2839 Aug 28 09:20	25°♌38'42	
	2839 Aug 31 22:05	0°♍	
	2839 Sep 25 03:32	0°♎	
max. Earth dist.	2839 Sep 30 20:50	7°♎06'43	1.72422 AU
superior conj	2839 Oct 04 02:44	11°♎09'04	1°21'36
minimum elong	2839 Oct 04 07:59	11°♎25'24	1°21'32
	2839 Oct 19 05:50	0°♏	
evening rise	2839 Nov 11 13:03	29°♏05'33	
	2839 Nov 12 06:29	0°♐	
desc. node	2839 Nov 18 17:10	8°♐03'11	
	2839 Dec 06 06:31	0°♑	
	2839 Dec 30 06:46	0°♒	
	2840 Jan 23 08:50	0°♓	
	2840 Feb 16 16:02	0°♈	
asc. node	2840 Mar 10 20:05	28°♈06'40	
	2840 Mar 12 09:58	0°♉	
	2840 Apr 07 00:04	0°♊	
	2840 May 04 07:04	0°♋	
evening max el	2840 May 15 20:33	11°♋39'29	45°37'24
	2840 Jun 05 22:28	0°♌	
greatest brilliancy	2840 Jun 22 20:01	9°♌44'39	-4.7m
desc. node	2840 Jun 30 09:46	11°♌40'42	
retrograde	2840 Jul 03 17:22	11°♌53'22	
evening set	2840 Jul 19 10:10	7°♌10'07	
inferior conj	2840 Jul 25 06:07	3°♌39'29	-5°25'11
minimum elong	2840 Jul 24 20:31	3°♌54'29	5°23'00
min. Earth dist.	2840 Jul 25 02:45	3°♌44'45	0.29043 AU
morning rise	2840 Jul 30 06:45	0°♌35'32	
	2840 Jul 31 07:47	30°℞♋	
direct	2840 Aug 15 20:37	25°♋21'39	
greatest brilliancy	2840 Aug 26 08:26	27°♋19'56	-4.7m
	2840 Sep 01 09:24	0°♌	
morning max el	2840 Oct 04 02:02	25°♌49'28	46°03'37
	2840 Oct 08 07:18	0°♍	
asc. node	2840 Oct 21 12:56	13°♍48'59	
	2840 Nov 05 03:27	0°♎	
	2840 Nov 30 19:31	0°♏	
	2840 Dec 25 13:06	0°♐	
	2841 Jan 18 20:22	0°♑	
desc. node	2841 Feb 10 02:29	27°♑40'25	
	2841 Feb 11 23:17	0°♒	
	2841 Mar 08 00:55	0°♓	
	2841 Apr 01 03:06	0°♈	
morning set	2841 Apr 09 07:52	10°♈11'26	
	2841 Apr 25 07:08	0°♉	
superior conj	2841 May 17 15:29	27°♉37'45	-0°38'17
minimum elong	2841 May 17 23:13	28°♉01'37	0°37'57
	2841 May 19 13:36	0°♊	
max. Earth dist.	2841 May 19 22:40	0°♊27'57	1.73100 AU
asc. node	2841 Jun 03 05:51	18°♊04'51	
	2841 Jun 12 22:24	0°♋	
evening rise	2841 Jun 23 20:15	13°♋24'10	
	2841 Jul 07 08:59	0°♌	
	2841 Jul 31 21:19	0°♍	
	2841 Aug 25 12:20	0°♎	
	2841 Sep 19 07:41	0°♏	

desc. node	2841 Sep 22 19:18	4°♏11'19	
	2841 Oct 14 09:37	0°♐	
	2841 Nov 08 22:14	0°♑	
	2841 Dec 05 09:43	0°♒	
evening max el	2841 Dec 21 20:06	17°♒26'16	47°16'08
	2842 Jan 03 19:47	0°♓	
asc. node	2842 Jan 13 22:22	8°♓34'19	
greatest brilliancy	2842 Jan 31 12:20	19°♓06'18	-4.9m
retrograde	2842 Feb 10 19:11	21°♓07'59	
evening set	2842 Feb 28 10:08	15°♓04'33	
min. Earth dist.	2842 Mar 02 21:32	13°♓33'17	0.27386 AU
inferior conj	2842 Mar 03 14:26	13°♓07'01	8°47'31
minimum elong	2842 Mar 03 10:45	13°♓12'43	8°47'19
morning rise	2842 Mar 06 11:35	11°♓20'41	
direct	2842 Mar 24 05:42	5°♓16'44	
greatest brilliancy	2842 Apr 02 07:43	6°♓50'04	-4.8m
desc. node	2842 May 05 12:01	29°♓35'41	
	2842 May 05 22:35	0°♈	
morning max el	2842 May 12 19:07	6°♈30'12	46°11'02
	2842 Jun 04 13:02	0°♉	
	2842 Jul 01 12:10	0°♊	
	2842 Jul 27 10:06	0°♋	
	2842 Aug 21 16:34	0°♌	
asc. node	2842 Aug 26 15:13	5°♌56'44	
	2842 Sep 15 11:00	0°♍	
	2842 Oct 09 20:00	0°♎	
	2842 Nov 02 22:29	0°♏	
morning set	2842 Nov 06 10:23	4°♏22'09	
	2842 Nov 26 21:15	0°♐	
max. Earth dist.	2842 Dec 15 05:50	23°♐03'38	1.71200 AU
superior conj	2842 Dec 16 03:13	24°♐10'52	0°00'11
minimum elong	2842 Dec 16 03:14	24°♐10'55	0°00'10
behind sun begin	2842 Dec 15 01:26	22°♐49'49	
behind sun end	2842 Dec 17 05:02	25°♐32'02	
desc. node	2842 Dec 16 05:01	24°♐16'33	
	2842 Dec 20 18:17	0°♑	
	2843 Jan 13 14:48	0°♒	
evening rise	2843 Jan 26 09:06	16°♒02'31	
	2843 Feb 06 12:00	0°♓	
	2843 Mar 02 11:43	0°♈	
	2843 Mar 26 16:27	0°♉	
asc. node	2843 Apr 08 08:07	15°♉32'09	
	2843 Apr 20 05:07	0°♊	
	2843 May 15 05:17	0°♋	
	2843 Jun 09 23:12	0°♌	
	2843 Jul 07 01:56	0°♍	
evening max el	2843 Jul 26 20:42	20°♍03'07	45°32'49
desc. node	2843 Jul 28 21:32	21°♍58'43	
	2843 Aug 06 19:24	0°♎	
greatest brilliancy	2843 Sep 04 02:00	18°♎03'43	-4.8m
retrograde	2843 Sep 13 12:28	19°♎39'43	
evening set	2843 Oct 01 08:28	13°♎44'05	
inferior conj	2843 Oct 04 15:45	11°♎43'03	-8°23'22
minimum elong	2843 Oct 04 21:24	11°♎34'19	8°22'54
min. Earth dist.	2843 Oct 05 11:28	11°♎12'34	0.28190 AU
morning rise	2843 Oct 08 10:05	9°♎25'12	
direct	2843 Oct 25 23:01	3°♎35'48	
greatest brilliancy	2843 Nov 06 01:19	5°♎53'06	-4.8m
asc. node	2843 Nov 19 00:43	13°♎09'54	
	2843 Dec 08 20:55	0°♏	
morning max el	2843 Dec 15 11:58	6°♏33'45	46°46'52
	2844 Jan 06 06:45	0°♐	
	2844 Feb 01 04:14	0°♑	
	2844 Feb 26 04:26	0°♒	
desc. node	2844 Mar 09 14:28	15°♒05'04	
	2844 Mar 21 19:51	0°♓	
	2844 Apr 15 07:52	0°♈	
	2844 May 09 19:09	0°♉	
	2844 Jun 03 06:38	0°♊	
morning set	2844 Jun 18 06:22	18°♊22'19	
	2844 Jun 27 17:58	0°♋	
asc. node	2844 Jun 30 17:35	3°♋39'40	
	2844 Jul 22 04:10	0°♌	
max. Earth dist.	2844 Jul 23 08:31	1°♌27'11	1.73502 AU
superior conj	2844 Jul 24 21:28	3°♌20'48	0°53'19
minimum elong	2844 Jul 24 12:51	2°♌54'19	0°52'59
	2844 Aug 15 12:41	0°♍	
evening rise	2844 Aug 29 18:56	17°♍35'50	
	2844 Sep 08 19:57	0°♎	
	2844 Oct 03 03:00	0°♏	
desc. node	2844 Oct 20 07:20	21°♏11'44	
	2844 Oct 27 10:49	0°♐	
	2844 Nov 20 20:06	0°♑	
	2844 Dec 15 08:31	0°♒	
	2845 Jan 09 04:44	0°♓	
	2845 Feb 03 20:11	0°♈	
asc. node	2845 Feb 10 10:12	7°♈25'42	
evening max el	2845 Mar 03 17:53	0°♉10'16	46°39'25
	2845 Mar 03 13:48	0°♉	
	2845 Apr 11 06:09	0°♊	
greatest brilliancy	2845 Apr 12 03:54	0°♊21'20	-4.8m
retrograde	2845 Apr 22 20:34	2°♊28'20	
	2845 May 03 22:32	30°℞♉	
evening set	2845 May 08 18:45	27°♉31'29	
inferior conj	2845 May 14 03:10	24°♉14'57	4°20'11
minimum elong	2845 May 14 11:37	24°♉01'37	4°17'58
min. Earth dist.	2845 May 14 02:03	24°♉16'42	0.28490 AU
morning rise	2845 May 20 04:56	20°♉34'54	
desc. node	2845 Jun 01 23:50	16°♉12'56	
direct	2845 Jun 04 10:44	16°♉05'50	
greatest brilliancy	2845 Jun 14 08:34	17°♉52'41	-4.7m
	2845 Jul 04 23:56	0°♊	
morning max el	2845 Jul 23 04:00	15°♊51'04	45°43'04
	2845 Aug 06 08:51	0°♋	
	2845 Sep 02 23:40	0°♌	
asc. node	2845 Sep 23 03:11	23°♌12'11	
	2845 Sep 28 21:42	0°♍	
	2845 Oct 23 21:02	0°♎	
	2845 Nov 17 06:39	0°♏	
	2845 Dec 11 08:34	0°♐	
	2846 Jan 04 06:46	0°♑	
desc. node	2846 Jan 12 16:41	10°♑34'07	
morning set	2846 Jan 20 17:26	20°♑39'54	
	2846 Jan 28 03:40	0°♒	
	2846 Feb 21 00:49	0°♓	
superior conj	2846 Mar 03 05:07	12°♓45'55	-1°24'50
minimum elong	2846 Mar 03 00:36	12°♓31'46	1°24'47
max. Earth dist.	2846 Mar 06 20:45	17°♓20'20	1.71561 AU
	2846 Mar 16 23:38	0°♈	
	2846 Apr 10 01:35	0°♉	
evening rise	2846 Apr 12 07:48	2°♉48'12	
	2846 May 04 07:52	0°♊	
asc. node	2846 May 05 20:02	1°♊51'16	
	2846 May 28 19:20	0°♋	
	2846 Jun 22 12:57	0°♌	
	2846 Jul 17 14:47	0°♍	
	2846 Aug 12 05:20	0°♎	
desc. node	2846 Aug 25 09:24	15°♎04'18	
	2846 Sep 07 18:03	0°♏	
	2846 Oct 06 07:22	0°♐	
evening max el	2846 Oct 07 13:56	1°♐14'50	46°29'41

	2846 Nov 14 04:10	0°♉	
greatest brilliancy	2846 Nov 16 21:57	1°♉03'07	-4.9m
retrograde	2846 Nov 26 09:36	2°♉44'29	
	2846 Dec 08 02:48	30°℞♐	
evening set	2846 Dec 10 18:38	28°♐41'33	
inferior conj	2846 Dec 16 23:42	25°♐05'16	0°07'18
minimum elong	2846 Dec 16 23:25	25°♐05'41	0°07'12
transit middle	2846 Dec 16 23:25	25°♐05'41	0°07'12
transit begin	2846 Dec 16 19:45	25°♐11'17	
transit end	2846 Dec 17 03:06	25°♐00'05	
asc. node	2846 Dec 16 12:29	25°♐22'19	
min. Earth dist.	2846 Dec 17 03:14	24°♐59'53	0.26525 AU
morning rise	2846 Dec 23 03:48	21°♐29'10	
direct	2847 Jan 06 10:07	17°♐25'01	
greatest brilliancy	2847 Jan 16 18:24	19°♐26'14	-4.9m
	2847 Feb 03 10:53	0°♉	
morning max el	2847 Feb 25 21:58	20°♉22'07	46°53'24
	2847 Mar 07 05:31	0°♒	
	2847 Apr 03 08:27	0°♓	
desc. node	2847 Apr 07 02:23	4°♓17'37	
	2847 Apr 29 04:13	0°♈	
	2847 May 24 11:10	0°♉	
	2847 Jun 18 11:42	0°♊	
	2847 Jul 13 07:38	0°♋	
asc. node	2847 Jul 29 05:24	19°♋20'38	
	2847 Aug 06 22:45	0°♌	
morning set	2847 Aug 26 02:41	23°♌31'28	
	2847 Aug 31 08:43	0°♍	
	2847 Sep 24 14:09	0°♎	
max. Earth dist.	2847 Sep 28 14:56	5°♎00'43	1.72468 AU
superior conj	2847 Oct 01 19:08	8°♎57'38	1°22'28
minimum elong	2847 Oct 01 23:42	9°♎11'53	1°22'26
	2847 Oct 18 16:30	0°♏	
evening rise	2847 Nov 09 02:33	26°♏44'09	
	2847 Nov 11 17:16	0°♐	
desc. node	2847 Nov 17 19:11	7°♐35'39	
	2847 Dec 05 17:29	0°♑	
	2847 Dec 29 17:58	0°♒	
	2848 Jan 22 20:20	0°♓	
	2848 Feb 16 03:59	0°♈	
asc. node	2848 Mar 09 22:12	27°♈35'01	
	2848 Mar 11 22:43	0°♉	
	2848 Apr 06 14:28	0°♊	
	2848 May 04 01:38	0°♋	
evening max el	2848 May 13 12:40	9°♋29'17	45°38'53
	2848 Jun 06 14:41	0°♌	
greatest brilliancy	2848 Jun 20 10:49	7°♌34'30	-4.7m
desc. node	2848 Jun 29 11:42	9°♌40'36	
retrograde	2848 Jul 01 10:12	9°♌44'57	
evening set	2848 Jul 17 00:18	5°♌04'19	
inferior conj	2848 Jul 22 22:22	1°♌30'39	-5°09'36
minimum elong	2848 Jul 22 12:58	1°♌45'20	5°07'23
min. Earth dist.	2848 Jul 22 18:20	1°♌36'57	0.29039 AU
	2848 Jul 25 08:44	30°℞♋	
morning rise	2848 Jul 28 01:37	28°♋23'14	
direct	2848 Aug 13 13:11	23°♋12'53	
greatest brilliancy	2848 Aug 23 23:59	25°♋10'43	-4.7m
	2848 Sep 02 21:12	0°♌	
morning max el	2848 Oct 01 18:33	23°♌39'48	46°02'17
	2848 Oct 08 03:17	0°♍	
asc. node	2848 Oct 20 14:59	13°♍08'40	
	2848 Nov 04 18:22	0°♎	
	2848 Nov 30 08:33	0°♏	
	2848 Dec 25 01:13	0°♐	
	2849 Jan 18 07:58	0°♑	
desc. node	2849 Feb 09 04:36	27°♑11'52	
	2849 Feb 11 10:33	0°♒	
	2849 Mar 07 11:56	0°♓	
	2849 Mar 31 13:57	0°♈	
morning set	2849 Apr 06 21:34	7°♈51'18	
	2849 Apr 24 17:50	0°♉	
superior conj	2849 May 15 07:19	25°♉25'36	-0°41'19
minimum elong	2849 May 15 15:33	25°♉51'01	0°40'58
max. Earth dist.	2849 May 17 17:50	28°♉26'11	1.73063 AU
	2849 May 19 00:15	0°♊	
asc. node	2849 Jun 02 07:47	17°♊38'07	
	2849 Jun 12 09:02	0°♋	
evening rise	2849 Jun 21 14:14	11°♋19'21	
	2849 Jul 06 19:42	0°♌	
	2849 Jul 31 08:16	0°♍	
	2849 Aug 24 23:41	0°♎	
	2849 Sep 18 19:43	0°♏	
desc. node	2849 Sep 21 21:26	3°♏41'19	
	2849 Oct 13 22:40	0°♐	
	2849 Nov 08 13:00	0°♑	
	2849 Dec 05 03:58	0°♒	
evening max el	2849 Dec 19 11:45	15°♒07'15	47°16'02
	2850 Jan 04 02:05	0°♓	
asc. node	2850 Jan 13 00:26	7°♓19'36	
greatest brilliancy	2850 Jan 29 02:02	16°♓42'25	-4.9m
retrograde	2850 Feb 08 09:45	18°♓44'28	
evening set	2850 Feb 25 21:11	12°♓45'46	
min. Earth dist.	2850 Feb 28 10:16	11°♓11'58	0.27333 AU
inferior conj	2850 Mar 01 04:06	10°♓44'14	8°43'33
minimum elong	2850 Feb 28 23:36	10°♓51'14	8°43'14
morning rise	2850 Mar 04 02:15	8°♓56'30	
direct	2850 Mar 21 19:33	2°♓55'02	
greatest brilliancy	2850 Mar 30 19:55	4°♓27'22	-4.8m
desc. node	2850 May 04 14:04	28°♓40'24	
	2850 May 06 00:01	0°♈	
morning max el	2850 May 10 09:38	4°♈13'18	46°12'22
	2850 Jun 04 05:41	0°♉	
	2850 Jul 01 01:54	0°♊	
	2850 Jul 26 22:26	0°♋	
	2850 Aug 21 04:07	0°♌	
asc. node	2850 Aug 25 17:21	5°♌28'38	
	2850 Sep 14 22:07	0°♍	
	2850 Oct 09 06:54	0°♎	
	2850 Nov 02 09:19	0°♏	
morning set	2850 Nov 04 00:27	2°♏02'16	
	2850 Nov 26 08:07	0°♐	
max. Earth dist.	2850 Dec 12 10:59	20°♐14'47	1.71220 AU
superior conj	2850 Dec 13 14:05	21°♐39'57	0°04'07
minimum elong	2850 Dec 13 15:09	21°♐43'17	0°04'05
behind sun begin	2850 Dec 12 13:54	20°♐23'58	
behind sun end	2850 Dec 14 16:23	23°♐02'35	
desc. node	2850 Dec 15 06:55	23°♐48'16	
	2850 Dec 20 05:12	0°♑	
	2851 Jan 13 01:45	0°♒	
evening rise	2851 Jan 23 19:18	13°♒29'19	
	2851 Feb 05 22:59	0°♓	
	2851 Mar 01 22:47	0°♈	
	2851 Mar 26 03:43	0°♉	
asc. node	2851 Apr 07 10:10	15°♉03'36	
	2851 Apr 19 16:45	0°♊	
	2851 May 14 17:39	0°♋	
	2851 Jun 09 13:03	0°♌	
	2851 Jul 06 19:15	0°♍	
evening max el	2851 Jul 24 11:06	17°♍48'32	45°31'38
desc. node	2851 Jul 27 23:40	21°♍07'35	
	2851 Aug 07 01:33	0°♎	

greatest brilliancy	2851 Sep 01	15:44	15°♎48'23	-4.7m	
retrograde	2851 Sep 11	01:59	17°♎24'24		
evening set	2851 Sep 29	00:26	11°♎26'24		
inferior conj	2851 Oct 02	06:28	9°♎27'06	-8°28'27	
minimum elong	2851 Oct 02	11:20	9°♎19'33	8°28'06	
min. Earth dist.	2851 Oct 03	01:45	8°♎57'13	0.28251 AU	
morning rise	2851 Oct 05	22:00	7°♎13'05		
direct	2851 Oct 23	14:01	1°♎19'02		
greatest brilliancy	2851 Nov 03	16:32	3°♎35'49	-4.8m	
asc. node	2851 Nov 18	02:40	11°♎54'12		
	2851 Dec 08	21:17	0°♏		
morning max el	2851 Dec 13	01:15	4°♏09'41	46°45'37	
	2852 Jan 05	23:29	0°♐		
	2852 Jan 31	18:22	0°♑		
	2852 Feb 25	17:15	0°♒		
desc. node	2852 Mar 08	16:30	14°♒33'28		
	2852 Mar 21	07:53	0°♓		
	2852 Apr 14	19:22	0°♈		
	2852 May 09	06:16	0°♉		
	2852 Jun 02	17:30	0°♊		
morning set	2852 Jun 16	00:10	16°♊16'48		
	2852 Jun 27	04:40	0°♋		
asc. node	2852 Jun 29	19:38	3°♋13'08		
max. Earth dist.	2852 Jul 21	03:25	29°♋24'54	1.73518 AU	
	2852 Jul 21	14:50	0°♌		
superior conj	2852 Jul 22	15:55	1°♌17'08	0°50'51	
minimum elong	2852 Jul 22	07:28	0°♌51'10	0°50'30	
	2852 Aug 14	23:25	0°♍		
evening rise	2852 Aug 27	12:53	15°♍29'42		
	2852 Sep 08	06:52	0°♎		
	2852 Oct 02	14:11	0°♏		
desc. node	2852 Oct 19	09:17	20°♏42'37		
	2852 Oct 26	22:20	0°♐		
	2852 Nov 20	08:07	0°♑		
	2852 Dec 14	21:14	0°♒		
	2853 Jan 08	18:34	0°♓		
	2853 Feb 03	12:14	0°♈		
asc. node	2853 Feb 09	12:21	6°♈44'36		
evening max el	2853 Mar 01	07:42	27°♈49'22	46°41'41	
	2853 Mar 03	12:01	0°♉		
greatest brilliancy	2853 Apr 09	21:13	28°♉09'26	-4.8m	
	2853 Apr 16	20:54	0°♊		
retrograde	2853 Apr 20	12:13	0°♊15'32		
	2853 Apr 24	02:10	30°℞♉		
evening set	2853 May 06	13:10	25°♉15'07		
inferior conj	2853 May 11	19:02	22°♉02'29	4°38'05	
minimum elong	2853 May 12	03:53	21°♉48'33	4°35'49	
min. Earth dist.	2853 May 11	18:19	22°♉03'38	0.28462 AU	
morning rise	2853 May 17	18:55	18°♉24'49		
desc. node	2853 Jun 01	01:44	13°♉54'49		
direct	2853 Jun 02	01:30	13°♉53'40		
greatest brilliancy	2853 Jun 12	00:03	15°♉40'49	-4.7m	
	2853 Jul 05	09:49	0°♊		
morning max el	2853 Jul 20	18:54	13°♊38'27	45°43'17	
	2853 Aug 06	02:50	0°♋		
	2853 Sep 02	13:54	0°♌		
asc. node	2853 Sep 22	05:12	22°♌40'02		
	2853 Sep 28	10:24	0°♍		
	2853 Oct 23	09:00	0°♎		
	2853 Nov 16	18:13	0°♏		
	2853 Dec 10	19:55	0°♐		
	2854 Jan 03	18:00	0°♑		
desc. node	2854 Jan 11	18:47	10°♑05'34		
morning set	2854 Jan 18	03:00	18°♑03'57		
	2854 Jan 27	14:49	0°♒		
	2854 Feb 20	11:55	0°♓		
superior conj	2854 Feb 28	16:05	10°♓15'12	-1°24'00	
minimum elong	2854 Feb 28	10:34	9°♓57'54	1°23'56	
max. Earth dist.	2854 Mar 04	01:52	14°♓31'26	1.71517 AU	
	2854 Mar 16	10:42	0°♈		
evening rise	2854 Apr 09	20:46	0°♉25'17		
	2854 Apr 09	12:37	0°♉		
	2854 May 03	18:57	0°♊		
asc. node	2854 May 04	22:00	1°♊23'13		
	2854 May 28	06:35	0°♋		
	2854 Jun 22	00:35	0°♌		
	2854 Jul 17	03:10	0°♍		
	2854 Aug 11	19:04	0°♎		
desc. node	2854 Aug 24	11:29	14°♎28'16		
	2854 Sep 07	10:31	0°♏		
evening max el	2854 Oct 05	02:55	28°♏51'38	46°27'18	
	2854 Oct 06	07:08	0°♐		
greatest brilliancy	2854 Nov 14	10:34	28°♐35'08	-4.9m	
	2854 Nov 20	04:43	0°♑		
retrograde	2854 Nov 23	21:55	0°♑16'16		
	2854 Nov 27	13:40	30°℞♐		
evening set	2854 Dec 08	07:41	26°♐11'43		
inferior conj	2854 Dec 14	11:54	22°♐36'50	-0°17'20	
minimum elong	2854 Dec 14	12:34	22°♐35'49	0°17'07	
min. Earth dist.	2854 Dec 14	16:52	22°♐29'17	0.26549 AU	
asc. node	2854 Dec 15	14:34	21°♐56'23		
morning rise	2854 Dec 20	17:02	18°♐59'44		
direct	2855 Jan 03	22:57	14°♐55'52		
greatest brilliancy	2855 Jan 14	08:39	16°♐59'02	-4.9m	
	2855 Feb 04	01:58	0°♑		
morning max el	2855 Feb 23	12:09	17°♑58'29	46°54'14	
	2855 Mar 07	01:27	0°♒		
	2855 Apr 02	23:57	0°♓		
desc. node	2855 Apr 06	04:23	3°♓39'49		
	2855 Apr 28	17:44	0°♈		
	2855 May 23	23:34	0°♉		
	2855 Jun 17	23:25	0°♊		
	2855 Jul 12	18:54	0°♋		
asc. node	2855 Jul 28	07:35	18°♋53'28		
	2855 Aug 06	09:45	0°♌		
morning set	2855 Aug 23	20:20	21°♌24'26		
	2855 Aug 30	19:37	0°♍		
	2855 Sep 24	01:04	0°♎		
max. Earth dist.	2855 Sep 26	09:16	2°♎54'34	1.72519 AU	
superior conj	2855 Sep 29	11:40	6°♎45'47	1°23'14	
minimum elong	2855 Sep 29	15:33	6°♎57'52	1°23'11	
	2855 Oct 18	03:32	0°♏		
evening rise	2855 Nov 06	15:58	24°♏21'16		
	2855 Nov 11	04:29	0°♐		
desc. node	2855 Nov 16	21:12	7°♐06'48		
	2855 Dec 05	04:54	0°♑		
	2855 Dec 29	05:37	0°♒		
	2856 Jan 22	08:16	0°♓		
	2856 Feb 15	16:22	0°♈		
asc. node	2856 Mar 09	00:12	27°♈01'46		
	2856 Mar 11	11:56	0°♉		
	2856 Apr 06	05:25	0°♊		
	2856 May 03	21:04	0°♋		
evening max el	2856 May 11	05:25	7°♋19'39	45°40'27	
	2856 Jun 07	13:11	0°♌		
greatest brilliancy	2856 Jun 18	02:20	5°♌24'33	-4.7m	
desc. node	2856 Jun 28	13:53	7°♌35'35		
retrograde	2856 Jun 29	03:08	7°♌35'56		
evening set	2856 Jul 14	14:50	2°♌58'03		
	2856 Jul 19	14:03	30°℞♋		
inferior conj	2856 Jul 20	14:46	29°♋21'24	-4°53'35	
minimum elong	2856 Jul 20	05:39	29°♋35'39	4°51'22	

min. Earth dist.	2856 Jul 20 10:03	29°♋28'46	0.29030 AU
morning rise	2856 Jul 25 20:33	26°♋10'29	
direct	2856 Aug 11 06:09	21°♋03'58	
greatest brilliancy	2856 Aug 21 15:07	23°♋00'34	-4.7m
	2856 Sep 03 22:43	0°♌	
morning max el	2856 Sep 29 10:38	21°♌28'37	46°00'51
	2856 Oct 07 22:56	0°♍	
asc. node	2856 Oct 19 16:59	12°♍27'49	
	2856 Nov 04 09:23	0°♎	
	2856 Nov 29 21:51	0°♏	
	2856 Dec 24 13:42	0°♐	
	2857 Jan 17 20:00	0°♑	
desc. node	2857 Feb 08 06:43	26°♑41'53	
	2857 Feb 10 22:16	0°♒	
	2857 Mar 06 23:23	0°♓	
	2857 Mar 31 01:10	0°♈	
morning set	2857 Apr 04 10:55	5°♈28'49	
	2857 Apr 24 04:54	0°♉	
superior conj	2857 May 12 22:58	23°♉11'46	-0°44'18
minimum elong	2857 May 13 07:39	23°♉38'34	0°43'56
max. Earth dist.	2857 May 15 14:48	26°♉28'50	1.73021 AU
	2857 May 18 11:14	0°♊	
asc. node	2857 Jun 01 09:52	17°♊10'49	
	2857 Jun 11 20:01	0°♋	
evening rise	2857 Jun 19 08:14	9°♋13'33	
	2857 Jul 06 06:46	0°♌	
	2857 Jul 30 19:33	0°♍	
	2857 Aug 24 11:22	0°♎	
	2857 Sep 18 08:04	0°♏	
desc. node	2857 Sep 20 23:25	3°♏09'56	
	2857 Oct 13 12:06	0°♐	
	2857 Nov 08 04:15	0°♑	
	2857 Dec 04 23:07	0°♒	
evening max el	2857 Dec 17 02:47	12°♒45'09	47°15'27
	2858 Jan 04 11:36	0°♓	
asc. node	2858 Jan 12 02:34	6°♓00'43	
greatest brilliancy	2858 Jan 26 15:59	14°♓16'35	-4.9m
retrograde	2858 Feb 05 23:35	16°♓18'06	
evening set	2858 Feb 23 07:32	10°♓25'03	
min. Earth dist.	2858 Feb 25 23:06	8°♓47'28	0.27280 AU
inferior conj	2858 Feb 26 17:27	8°♓18'54	8°38'28
minimum elong	2858 Feb 26 12:09	8°♓27'09	8°38'03
morning rise	2858 Mar 01 17:00	6°♓28'59	
direct	2858 Mar 19 08:49	0°♓30'51	
greatest brilliancy	2858 Mar 28 08:21	2°♓02'29	-4.8m
desc. node	2858 May 03 16:04	27°♓44'34	
	2858 May 06 00:49	0°♈	
morning max el	2858 May 07 22:54	1°♈51'41	46°13'54
	2858 Jun 03 22:27	0°♉	
	2858 Jun 30 15:51	0°♊	
	2858 Jul 26 10:59	0°♋	
	2858 Aug 20 15:54	0°♌	
asc. node	2858 Aug 24 19:19	4°♌59'17	
	2858 Sep 14 09:28	0°♍	
	2858 Oct 08 18:02	0°♎	
morning set	2858 Nov 01 15:07	29°♎43'32	
	2858 Nov 01 20:23	0°♏	
	2858 Nov 25 19:11	0°♐	
max. Earth dist.	2858 Dec 09 16:08	17°♐25'22	1.71249 AU
superior conj	2858 Dec 11 01:32	19°♐10'16	0°07'58
minimum elong	2858 Dec 11 03:35	19°♐16'42	0°07'52
behind sun begin	2858 Dec 10 04:43	18°♐04'53	
behind sun end	2858 Dec 12 02:26	20°♐28'31	
desc. node	2858 Dec 14 09:05	23°♐20'11	
	2858 Dec 19 16:19	0°♑	
	2859 Jan 12 12:56	0°♒	
evening rise	2859 Jan 21 05:38	10°♒55'38	
	2859 Feb 05 10:16	0°♓	
	2859 Mar 01 10:13	0°♈	
	2859 Mar 25 15:20	0°♉	
asc. node	2859 Apr 06 12:07	14°♉33'36	
	2859 Apr 19 04:45	0°♊	
	2859 May 14 06:23	0°♋	
	2859 Jun 09 03:20	0°♌	
	2859 Jul 06 13:12	0°♍	
evening max el	2859 Jul 22 00:46	15°♍31'43	45°30'41
desc. node	2859 Jul 27 01:43	20°♍14'42	
	2859 Aug 07 10:21	0°♎	
greatest brilliancy	2859 Aug 30 05:36	13°♎33'13	-4.7m
retrograde	2859 Sep 08 15:53	15°♎09'40	
evening set	2859 Sep 26 16:21	9°♎09'26	
inferior conj	2859 Sep 29 21:26	7°♎11'35	-8°32'41
minimum elong	2859 Sep 30 01:32	7°♎05'13	8°32'26
min. Earth dist.	2859 Sep 30 16:22	6°♎42'14	0.28309 AU
morning rise	2859 Oct 03 10:28	5°♎01'10	
	2859 Oct 14 07:22	30°℞♍	
direct	2859 Oct 21 04:55	29°♍02'34	
	2859 Oct 28 07:27	0°♎	
greatest brilliancy	2859 Nov 01 08:21	1°♎19'34	-4.8m
asc. node	2859 Nov 17 04:44	10°♎40'51	
	2859 Dec 08 20:35	0°♏	
morning max el	2859 Dec 10 14:55	1°♏46'35	46°44'30
	2860 Jan 05 15:56	0°♐	
	2860 Jan 31 08:24	0°♑	
	2860 Feb 25 06:06	0°♒	
desc. node	2860 Mar 07 18:28	14°♒01'21	
	2860 Mar 20 20:02	0°♓	
	2860 Apr 14 07:03	0°♈	
	2860 May 08 17:36	0°♉	
	2860 Jun 02 04:33	0°♊	
morning set	2860 Jun 13 17:35	14°♊09'29	
	2860 Jun 26 15:31	0°♋	
asc. node	2860 Jun 28 21:45	2°♋46'22	
max. Earth dist.	2860 Jul 18 23:07	27°♋24'48	1.73530 AU
superior conj	2860 Jul 20 10:09	29°♋12'29	0°48'16
minimum elong	2860 Jul 20 01:54	28°♋47'09	0°47'57
	2860 Jul 21 01:36	0°♌	
	2860 Aug 14 10:15	0°♍	
evening rise	2860 Aug 25 06:57	13°♍23'46	
	2860 Sep 07 17:51	0°♎	
	2860 Oct 02 01:26	0°♏	
desc. node	2860 Oct 18 11:19	20°♏13'31	
	2860 Oct 26 09:57	0°♐	
	2860 Nov 19 20:12	0°♑	
	2860 Dec 14 10:00	0°♒	
	2861 Jan 08 08:29	0°♓	
	2861 Feb 03 04:29	0°♈	
asc. node	2861 Feb 08 14:17	6°♈02'36	
evening max el	2861 Feb 26 21:27	25°♈28'19	46°43'47
	2861 Mar 03 11:08	0°♉	
greatest brilliancy	2861 Apr 07 13:44	25°♉56'03	-4.8m
retrograde	2861 Apr 18 04:01	28°♉02'08	
evening set	2861 May 04 07:30	22°♉57'40	
inferior conj	2861 May 09 10:45	19°♉49'10	4°55'40
minimum elong	2861 May 09 19:56	19°♉34'42	4°53'22
min. Earth dist.	2861 May 09 10:13	19°♉50'01	0.28439 AU
morning rise	2861 May 15 08:38	16°♉14'23	
direct	2861 May 30 16:16	11°♉40'31	
desc. node	2861 May 31 03:55	11°♉40'48	
greatest brilliancy	2861 Jun 09 15:25	13°♉28'16	-4.7m
	2861 Jul 05 17:11	0°♊	

morning max el	2861 Jul 18 10:32	11°♊27'17	45°43'39
	2861 Aug 05 20:28	0°♋	
	2861 Sep 02 03:58	0°♌	
asc. node	2861 Sep 21 07:12	22°♌08'12	
	2861 Sep 27 22:57	0°♍	
	2861 Oct 22 20:48	0°♎	
	2861 Nov 16 05:39	0°♏	
	2861 Dec 10 07:08	0°♐	
	2862 Jan 03 05:05	0°♑	
desc. node	2862 Jan 10 20:52	9°♑37'19	
morning set	2862 Jan 15 13:03	15°♑29'54	
	2862 Jan 27 01:49	0°♒	
	2862 Feb 19 22:51	0°♓	
superior conj	2862 Feb 26 03:17	7°♓45'40	-1°22'59
minimum elong	2862 Feb 25 20:48	7°♓25'20	1°22'55
max. Earth dist.	2862 Mar 01 08:44	11°♓48'26	1.71476 AU
	2862 Mar 15 21:34	0°♈	
evening rise	2862 Apr 07 09:53	28°♈03'17	
	2862 Apr 08 23:29	0°♉	
	2862 May 03 05:54	0°♊	
asc. node	2862 May 04 00:05	0°♊55'58	
	2862 May 27 17:45	0°♋	
	2862 Jun 21 12:11	0°♌	
	2862 Jul 16 15:30	0°♍	
	2862 Aug 11 08:47	0°♎	
desc. node	2862 Aug 23 13:27	13°♎52'08	
	2862 Sep 07 03:05	0°♏	
evening max el	2862 Oct 02 16:44	26°♏31'26	46°25'01
	2862 Oct 06 07:43	0°♐	
greatest brilliancy	2862 Nov 11 22:49	26°♐07'58	-4.9m
retrograde	2862 Nov 21 10:34	27°♐49'03	
evening set	2862 Dec 05 21:04	23°♐42'50	
inferior conj	2862 Dec 12 00:08	20°♐09'18	-0°41'53
minimum elong	2862 Dec 12 01:45	20°♐06'51	0°41'21
min. Earth dist.	2862 Dec 12 06:14	20°♐00'02	0.26577 AU
asc. node	2862 Dec 14 16:42	18°♐32'07	
morning rise	2862 Dec 18 06:04	16°♐31'29	
direct	2863 Jan 01 12:15	12°♐27'51	
greatest brilliancy	2863 Jan 11 22:23	14°♐32'01	-4.9m
	2863 Feb 04 12:56	0°♑	
morning max el	2863 Feb 21 02:39	15°♑36'25	46°55'03
	2863 Mar 06 20:31	0°♒	
	2863 Apr 02 14:55	0°♓	
desc. node	2863 Apr 05 06:25	3°♓03'14	
	2863 Apr 28 06:50	0°♈	
	2863 May 23 11:37	0°♉	
	2863 Jun 17 10:50	0°♊	
	2863 Jul 12 05:55	0°♋	
asc. node	2863 Jul 27 09:30	18°♋26'12	
	2863 Aug 05 20:33	0°♌	
morning set	2863 Aug 21 13:50	19°♌17'45	
	2863 Aug 30 06:18	0°♍	
	2863 Sep 23 11:44	0°♎	
max. Earth dist.	2863 Sep 24 01:57	0°♎44'11	1.72565 AU
superior conj	2863 Sep 27 04:11	4°♎34'44	1°23'51
minimum elong	2863 Sep 27 07:20	4°♎44'33	1°23'49
	2863 Oct 17 14:16	0°♏	
evening rise	2863 Nov 04 05:25	21°♏59'32	
	2863 Nov 10 15:23	0°♐	
desc. node	2863 Nov 15 23:19	6°♐39'15	
	2863 Dec 04 16:01	0°♑	
	2863 Dec 28 16:59	0°♒	
	2864 Jan 21 19:55	0°♓	
	2864 Feb 15 04:28	0°♈	
asc. node	2864 Mar 08 02:13	26°♈29'29	
	2864 Mar 11 00:52	0°♉	
	2864 Apr 05 20:08	0°♊	
	2864 May 03 16:38	0°♋	
evening max el	2864 May 08 22:02	5°♋10'46	45°41'56
	2864 Jun 08 19:43	0°♌	
greatest brilliancy	2864 Jun 15 18:24	3°♌16'17	-4.7m
retrograde	2864 Jun 26 19:39	5°♌27'43	
desc. node	2864 Jun 27 15:52	5°♌26'53	
evening set	2864 Jul 12 05:31	0°♌52'37	
	2864 Jul 13 18:18	30°℞♋	
inferior conj	2864 Jul 18 07:10	27°♋13'06	-4°37'05
minimum elong	2864 Jul 17 22:22	27°♋26'53	4°34'54
min. Earth dist.	2864 Jul 18 02:02	27°♋21'09	0.29023 AU
morning rise	2864 Jul 23 15:22	23°♋58'36	
direct	2864 Aug 08 23:01	18°♋56'02	
greatest brilliancy	2864 Aug 19 06:21	20°♋51'13	-4.7m
	2864 Sep 04 17:02	0°♌	
morning max el	2864 Sep 27 01:56	19°♌16'18	45°59'27
	2864 Oct 07 17:44	0°♍	
asc. node	2864 Oct 18 19:04	11°♍48'27	
	2864 Nov 03 23:55	0°♎	
	2864 Nov 29 10:42	0°♏	
	2864 Dec 24 01:45	0°♐	
	2865 Jan 17 07:36	0°♑	
desc. node	2865 Feb 07 08:36	26°♑12'27	
	2865 Feb 10 09:34	0°♒	
	2865 Mar 06 10:27	0°♓	
	2865 Mar 30 12:02	0°♈	
morning set	2865 Apr 02 00:10	3°♈07'05	
	2865 Apr 23 15:37	0°♉	
superior conj	2865 May 10 14:38	20°♉59'05	-0°47'13
minimum elong	2865 May 10 23:42	21°♉27'07	0°46'50
max. Earth dist.	2865 May 13 12:00	24°♉33'19	1.72974 AU
	2865 May 17 21:51	0°♊	
asc. node	2865 May 31 11:58	16°♊44'46	
	2865 Jun 11 06:37	0°♋	
evening rise	2865 Jun 17 02:12	7°♋08'48	
	2865 Jul 05 17:28	0°♌	
	2865 Jul 30 06:30	0°♍	
	2865 Aug 23 22:47	0°♎	
	2865 Sep 17 20:12	0°♏	
desc. node	2865 Sep 20 01:26	2°♏39'25	
	2865 Oct 13 01:20	0°♐	
	2865 Nov 07 19:24	0°♑	
	2865 Dec 04 18:23	0°♒	
evening max el	2865 Dec 14 16:40	10°♒21'16	47°14'55
	2866 Jan 04 23:44	0°♓	
asc. node	2866 Jan 11 04:29	4°♓40'08	
greatest brilliancy	2866 Jan 24 06:27	11°♓52'27	-4.9m
retrograde	2866 Feb 03 12:56	13°♓52'51	
evening set	2866 Feb 20 17:36	8°♓05'57	
min. Earth dist.	2866 Feb 23 12:17	6°♓23'39	0.27227 AU
inferior conj	2866 Feb 24 06:49	5°♓54'47	8°32'25
minimum elong	2866 Feb 24 00:43	6°♓04'17	8°31'52
morning rise	2866 Feb 27 08:05	4°♓02'11	
	2866 Mar 07 06:55	30°℞♒	
direct	2866 Mar 16 21:32	28°♒07'40	
greatest brilliancy	2866 Mar 25 21:27	29°♒39'17	-4.8m
	2866 Mar 26 21:37	0°♓	
desc. node	2866 May 02 18:11	26°♓51'16	
morning max el	2866 May 05 11:23	29°♓29'03	46°15'30
	2866 May 06 00:02	0°♈	
	2866 Jun 03 14:29	0°♉	
	2866 Jun 30 05:15	0°♊	
	2866 Jul 25 23:04	0°♋	
	2866 Aug 20 03:15	0°♌	

asc. node	2866 Aug 23 21:21	4°♌31'22	
	2866 Sep 13 20:26	0°♍	
	2866 Oct 08 04:51	0°♎	
morning set	2866 Oct 30 05:34	27°♎25'02	
	2866 Nov 01 07:10	0°♏	
	2866 Nov 25 06:00	0°♐	
max. Earth dist.	2866 Dec 06 22:05	14°♐39'19	1.71277 AU
superior conj	2866 Dec 08 12:46	16°♐40'48	0°11'50
minimum elong	2866 Dec 08 15:47	16°♐50'16	0°11'40
behind sun begin	2866 Dec 07 21:36	15°♐53'09	
behind sun end	2866 Dec 09 09:58	17°♐47'23	
desc. node	2866 Dec 13 11:07	22°♐52'33	
	2866 Dec 19 03:10	0°♑	
	2867 Jan 11 23:50	0°♒	
evening rise	2867 Jan 18 15:45	8°♒22'20	
	2867 Feb 04 21:14	0°♓	
	2867 Feb 28 21:18	0°♈	
	2867 Mar 25 02:39	0°♉	
asc. node	2867 Apr 05 14:14	14°♉05'04	
	2867 Apr 18 16:28	0°♊	
	2867 May 13 18:52	0°♋	
	2867 Jun 08 17:25	0°♌	
	2867 Jul 06 07:13	0°♍	
evening max el	2867 Jul 19 14:14	13°♍15'31	45°29'53
desc. node	2867 Jul 26 03:41	19°♍21'38	
	2867 Aug 07 21:41	0°♎	
greatest brilliancy	2867 Aug 27 18:50	11°♎18'26	-4.7m
retrograde	2867 Sep 06 06:10	12°♎56'06	
evening set	2867 Sep 24 07:49	6°♎53'52	
inferior conj	2867 Sep 27 12:21	4°♎56'58	-8°35'55
minimum elong	2867 Sep 27 15:40	4°♎51'49	8°35'46
min. Earth dist.	2867 Sep 28 06:43	4°♎28'30	0.28372 AU
morning rise	2867 Sep 30 23:15	2°♎49'47	
	2867 Oct 06 02:37	30°℞♍	
direct	2867 Oct 18 19:57	26°♍46'51	
greatest brilliancy	2867 Oct 30 00:11	29°♍04'22	-4.8m
	2867 Nov 01 04:47	0°♎	
asc. node	2867 Nov 16 06:50	9°♎30'16	
morning max el	2867 Dec 08 05:25	29°♎26'12	46°43'15
	2867 Dec 08 18:45	0°♏	
	2868 Jan 05 07:57	0°♐	
	2868 Jan 30 22:10	0°♑	
	2868 Feb 24 18:42	0°♒	
desc. node	2868 Mar 06 20:36	13°♒30'30	
	2868 Mar 20 07:54	0°♓	
	2868 Apr 13 18:27	0°♈	
	2868 May 08 04:38	0°♉	
	2868 Jun 01 15:20	0°♊	
morning set	2868 Jun 11 10:56	12°♊02'37	
	2868 Jun 26 02:09	0°♋	
asc. node	2868 Jun 27 23:42	2°♋19'45	
max. Earth dist.	2868 Jul 16 19:57	25°♋28'46	1.73540 AU
superior conj	2868 Jul 18 04:27	27°♋08'40	0°45'38
minimum elong	2868 Jul 17 20:27	26°♋44'06	0°45'19
	2868 Jul 20 12:10	0°♌	
	2868 Aug 13 20:52	0°♍	
evening rise	2868 Aug 23 01:15	11°♍19'20	
	2868 Sep 07 04:38	0°♎	
	2868 Oct 01 12:30	0°♏	
desc. node	2868 Oct 17 13:29	19°♏45'23	
	2868 Oct 25 21:24	0°♐	
	2868 Nov 19 08:11	0°♑	
	2868 Dec 13 22:46	0°♒	
	2869 Jan 07 22:28	0°♓	
	2869 Feb 02 20:58	0°♈	
asc. node	2869 Feb 07 16:20	5°♈20'31	
evening max el	2869 Feb 24 11:52	23°♈09'05	46°46'07
	2869 Mar 03 11:14	0°♉	
greatest brilliancy	2869 Apr 05 05:42	23°♉42'13	-4.8m
retrograde	2869 Apr 15 20:17	25°♉48'52	
evening set	2869 May 02 01:52	20°♉40'07	
inferior conj	2869 May 07 02:22	17°♉35'46	5°12'47
minimum elong	2869 May 07 11:51	17°♉20'52	5°10'29
min. Earth dist.	2869 May 07 01:35	17°♉37'00	0.28413 AU
morning rise	2869 May 12 22:07	14°♉04'21	
direct	2869 May 28 07:22	9°♉27'23	
desc. node	2869 May 30 05:57	9°♉31'46	
greatest brilliancy	2869 Jun 07 06:06	11°♉15'12	-4.7m
	2869 Jul 05 22:14	0°♊	
morning max el	2869 Jul 16 02:56	9°♊18'16	45°44'01
	2869 Aug 05 13:35	0°♋	
	2869 Sep 01 17:47	0°♌	
asc. node	2869 Sep 20 09:18	21°♌37'06	
	2869 Sep 27 11:20	0°♍	
	2869 Oct 22 08:28	0°♎	
	2869 Nov 15 16:57	0°♏	
	2869 Dec 09 18:16	0°♐	
	2870 Jan 02 16:08	0°♑	
desc. node	2870 Jan 09 22:49	9°♑08'47	
morning set	2870 Jan 12 23:00	12°♑55'38	
	2870 Jan 26 12:50	0°♒	
	2870 Feb 19 09:49	0°♓	
superior conj	2870 Feb 23 13:55	5°♓14'04	-1°21'48
minimum elong	2870 Feb 23 06:32	4°♓50'54	1°21'41
max. Earth dist.	2870 Feb 26 16:30	9°♓08'00	1.71437 AU
	2870 Mar 15 08:30	0°♈	
evening rise	2870 Apr 04 22:27	25°♈39'24	
	2870 Apr 08 10:24	0°♉	
	2870 May 02 16:52	0°♊	
asc. node	2870 May 03 02:09	0°♊28'31	
	2870 May 27 04:58	0°♋	
	2870 Jun 20 23:50	0°♌	
	2870 Jul 16 03:57	0°♍	
	2870 Aug 10 22:41	0°♎	
desc. node	2870 Aug 22 15:34	13°♎15'58	
	2870 Sep 06 20:00	0°♏	
evening max el	2870 Sep 30 07:14	24°♏13'07	46°22'44
	2870 Oct 06 09:34	0°♐	
greatest brilliancy	2870 Nov 09 11:19	23°♐41'44	-4.9m
retrograde	2870 Nov 18 23:17	25°♐22'17	
evening set	2870 Dec 03 10:50	21°♐14'30	
inferior conj	2870 Dec 09 12:31	17°♐42'23	-1°06'05
minimum elong	2870 Dec 09 15:03	17°♐38'32	1°05'15
min. Earth dist.	2870 Dec 09 19:42	17°♐31'30	0.26606 AU
asc. node	2870 Dec 13 18:36	15°♐10'33	
morning rise	2870 Dec 15 18:58	14°♐03'55	
direct	2870 Dec 30 01:42	10°♐00'35	
greatest brilliancy	2871 Jan 09 11:59	12°♐05'03	-4.9m
	2871 Feb 04 21:01	0°♑	
morning max el	2871 Feb 18 16:41	13°♑12'53	46°55'33
	2871 Mar 06 15:13	0°♒	
	2871 Apr 02 05:52	0°♓	
desc. node	2871 Apr 04 08:32	2°♓26'40	
	2871 Apr 27 20:01	0°♈	
	2871 May 22 23:47	0°♉	
	2871 Jun 16 22:21	0°♊	
	2871 Jul 11 17:03	0°♋	
asc. node	2871 Jul 26 11:33	17°♋59'02	
	2871 Aug 05 07:26	0°♌	
morning set	2871 Aug 19 07:22	17°♌10'47	
	2871 Aug 29 17:06	0°♍	

max. Earth dist.	2871 Sep 21 16:42	28°♍27'24	1.72610 AU
	2871 Sep 22 22:32	0°♎	
superior conj	2871 Sep 24 20:57	2°♎24'04	1°24'19
minimum elong	2871 Sep 24 23:23	2°♎31'38	1°24'19
	2871 Oct 17 01:10	0°♏	
evening rise	2871 Nov 01 19:12	19°♏38'24	
	2871 Nov 10 02:26	0°♐	
desc. node	2871 Nov 15 01:19	6°♐10'55	
	2871 Dec 04 03:16	0°♑	
	2871 Dec 28 04:27	0°♒	
	2872 Jan 21 07:42	0°♓	
	2872 Feb 14 16:46	0°♈	
asc. node	2872 Mar 07 04:19	25°♈56'38	
	2872 Mar 10 14:07	0°♉	
	2872 Apr 05 11:21	0°♊	
	2872 May 03 13:11	0°♋	
evening max el	2872 May 06 14:08	2°♋59'38	45°43'29
	2872 Jun 10 17:53	0°♌	
greatest brilliancy	2872 Jun 13 11:12	1°♌07'59	-4.7m
retrograde	2872 Jun 24 11:49	3°♌18'51	
desc. node	2872 Jun 26 17:50	3°♌12'54	
	2872 Jul 07 12:11	30°℞♋	
evening set	2872 Jul 09 20:24	28°♋46'18	
inferior conj	2872 Jul 15 23:38	25°♋04'20	-4°20'19
minimum elong	2872 Jul 15 15:12	25°♋17'35	4°18'10
min. Earth dist.	2872 Jul 15 18:25	25°♋12'31	0.29012 AU
morning rise	2872 Jul 21 10:08	21°♋46'14	
direct	2872 Aug 06 15:26	16°♋47'36	
greatest brilliancy	2872 Aug 16 21:57	18°♋41'38	-4.7m
	2872 Sep 05 06:57	0°♌	
morning max el	2872 Sep 24 16:30	17°♌01'38	45°58'05
	2872 Oct 07 12:17	0°♍	
asc. node	2872 Oct 17 21:08	11°♍08'45	
	2872 Nov 03 14:31	0°♎	
	2872 Nov 28 23:44	0°♏	
	2872 Dec 23 14:00	0°♐	
	2873 Jan 16 19:23	0°♑	
desc. node	2873 Feb 06 10:46	25°♑43'21	
	2873 Feb 09 21:02	0°♒	
	2873 Mar 05 21:40	0°♓	
	2873 Mar 29 23:05	0°♈	
morning set	2873 Mar 30 13:24	0°♈44'33	
	2873 Apr 23 02:34	0°♉	
superior conj	2873 May 08 06:12	18°♉45'12	-0°50'03
minimum elong	2873 May 08 15:37	19°♉14'19	0°49'41
max. Earth dist.	2873 May 11 07:15	22°♉30'54	1.72928 AU
	2873 May 17 08:45	0°♊	
asc. node	2873 May 30 13:55	16°♊17'16	
	2873 Jun 10 17:31	0°♋	
evening rise	2873 Jun 14 19:54	5°♋02'13	
	2873 Jul 05 04:28	0°♌	
	2873 Jul 29 17:45	0°♍	
	2873 Aug 23 10:31	0°♎	
	2873 Sep 17 08:41	0°♏	
desc. node	2873 Sep 19 03:33	2°♏08'13	
	2873 Oct 12 15:00	0°♐	
	2873 Nov 07 11:05	0°♑	
	2873 Dec 04 14:35	0°♒	
evening max el	2873 Dec 12 05:59	7°♒55'00	47°14'22
	2874 Jan 05 16:20	0°♓	
asc. node	2874 Jan 10 06:35	3°♓16'31	
greatest brilliancy	2874 Jan 21 21:17	9°♓28'01	-4.9m
retrograde	2874 Feb 01 02:13	11°♓27'21	
evening set	2874 Feb 18 03:35	5°♓46'43	
min. Earth dist.	2874 Feb 21 01:50	3°♓59'15	0.27173 AU
inferior conj	2874 Feb 21 20:20	3°♓30'26	8°25'30
minimum elong	2874 Feb 21 13:29	3°♓41'07	8°24'46
morning rise	2874 Feb 24 23:36	1°♓34'50	
	2874 Feb 27 17:36	30°℞♒	
direct	2874 Mar 14 09:58	25°♒44'03	
greatest brilliancy	2874 Mar 23 11:02	27°♒16'16	-4.9m
	2874 Mar 29 21:53	0°♓	
desc. node	2874 May 01 20:14	25°♓58'21	
morning max el	2874 May 03 00:02	27°♓06'04	46°17'06
	2874 May 05 22:30	0°♈	
	2874 Jun 03 06:32	0°♉	
	2874 Jun 29 18:51	0°♊	
	2874 Jul 25 11:27	0°♋	
	2874 Aug 19 14:55	0°♌	
asc. node	2874 Aug 22 23:30	4°♌02'50	
	2874 Sep 13 07:43	0°♍	
	2874 Oct 07 15:58	0°♎	
morning set	2874 Oct 27 20:10	25°♎06'11	
	2874 Oct 31 18:15	0°♏	
	2874 Nov 24 17:07	0°♐	
max. Earth dist.	2874 Dec 04 07:08	12°♐02'00	1.71311 AU
superior conj	2874 Dec 06 00:10	14°♐10'52	0°15'38
minimum elong	2874 Dec 06 04:07	14°♐23'15	0°15'27
behind sun begin	2874 Dec 05 19:56	13°♐57'33	
behind sun end	2874 Dec 06 12:18	14°♐48'57	
desc. node	2874 Dec 12 13:05	22°♐23'40	
	2874 Dec 18 14:20	0°♑	
	2875 Jan 11 11:04	0°♒	
evening rise	2875 Jan 16 02:04	5°♒48'40	
	2875 Feb 04 08:33	0°♓	
	2875 Feb 28 08:43	0°♈	
	2875 Mar 24 14:15	0°♉	
asc. node	2875 Apr 04 16:16	13°♉35'24	
	2875 Apr 18 04:28	0°♊	
	2875 May 13 07:42	0°♋	
	2875 Jun 08 07:59	0°♌	
	2875 Jul 06 02:05	0°♍	
evening max el	2875 Jul 17 04:44	11°♍01'00	45°29'07
desc. node	2875 Jul 25 05:50	18°♍26'52	
	2875 Aug 08 13:30	0°♎	
greatest brilliancy	2875 Aug 25 07:41	9°♎02'36	-4.7m
retrograde	2875 Sep 03 21:10	10°♎42'05	
evening set	2875 Sep 21 23:04	4°♎38'23	
inferior conj	2875 Sep 25 03:26	2°♎41'50	-8°38'19
minimum elong	2875 Sep 25 05:56	2°♎37'57	8°38'15
min. Earth dist.	2875 Sep 25 20:52	2°♎14'51	0.28432 AU
morning rise	2875 Sep 28 12:33	0°♎37'30	
	2875 Sep 29 13:52	30°℞♍	
direct	2875 Oct 16 11:34	24°♍30'50	
greatest brilliancy	2875 Oct 27 15:39	26°♍48'22	-4.8m
	2875 Nov 03 06:40	0°♎	
asc. node	2875 Nov 15 08:48	8°♎20'38	
morning max el	2875 Dec 05 20:57	27°♎07'51	46°41'54
	2875 Dec 08 16:24	0°♏	
	2876 Jan 05 00:01	0°♐	
	2876 Jan 30 12:06	0°♑	
	2876 Feb 24 07:32	0°♒	
desc. node	2876 Mar 05 22:38	12°♒58'29	
	2876 Mar 19 20:03	0°♓	
	2876 Apr 13 06:06	0°♈	
	2876 May 07 15:55	0°♉	
	2876 Jun 01 02:21	0°♊	
morning set	2876 Jun 09 04:36	9°♊55'57	
	2876 Jun 25 13:01	0°♋	
asc. node	2876 Jun 27 01:47	1°♋52'49	
max. Earth dist.	2876 Jul 14 18:45	23°♋37'59	1.73551 AU

superior conj	2876 Jul 15 22:56	25°♋04'37	0°42'58
minimum elong	2876 Jul 15 15:14	24°♋40'57	0°42'38
	2876 Jul 19 23:00	0°♌	
	2876 Aug 13 07:47	0°♍	
evening rise	2876 Aug 20 19:45	9°♍14'37	
	2876 Sep 06 15:44	0°♎	
	2876 Sep 30 23:52	0°♏	
desc. node	2876 Oct 16 15:25	19°♏15'38	
	2876 Oct 25 09:09	0°♐	
	2876 Nov 18 20:30	0°♑	
	2876 Dec 13 11:52	0°♒	
	2877 Jan 07 12:54	0°♓	
	2877 Feb 02 14:06	0°♈	
asc. node	2877 Feb 06 18:28	4°♈37'14	
evening max el	2877 Feb 22 03:24	20°♈51'38	46°48'19
	2877 Mar 03 12:58	0°♉	
greatest brilliancy	2877 Apr 02 21:36	21°♉27'23	-4.8m
retrograde	2877 Apr 13 12:55	23°♉34'30	
evening set	2877 Apr 29 20:19	18°♉21'41	
inferior conj	2877 May 04 17:57	15°♉21'27	5°29'31
minimum elong	2877 May 05 03:40	15°♉06'11	5°27'15
min. Earth dist.	2877 May 04 16:40	15°♉23'28	0.28383 AU
morning rise	2877 May 10 11:23	11°♉53'41	
direct	2877 May 25 22:50	7°♉13'37	
desc. node	2877 May 29 07:53	7°♉26'49	
greatest brilliancy	2877 Jun 04 20:04	9°♉00'43	-4.7m
	2877 Jul 06 01:39	0°♊	
morning max el	2877 Jul 13 19:28	7°♊09'13	45°44'26
	2877 Aug 05 06:30	0°♋	
	2877 Sep 01 07:39	0°♌	
asc. node	2877 Sep 19 11:19	21°♌05'15	
	2877 Sep 26 23:52	0°♍	
	2877 Oct 21 20:21	0°♎	
	2877 Nov 15 04:29	0°♏	
	2877 Dec 09 05:36	0°♐	
	2878 Jan 02 03:23	0°♑	
desc. node	2878 Jan 09 00:57	8°♑40'14	
morning set	2878 Jan 10 09:00	10°♑20'56	
	2878 Jan 26 00:02	0°♒	
	2878 Feb 18 20:59	0°♓	
superior conj	2878 Feb 21 00:22	2°♓41'16	-1°20'27
minimum elong	2878 Feb 20 16:07	2°♓15'25	1°20'17
max. Earth dist.	2878 Feb 24 02:15	6°♓33'07	1.71401 AU
	2878 Mar 14 19:37	0°♈	
evening rise	2878 Apr 02 10:53	23°♈14'18	
	2878 Apr 07 21:31	0°♉	
asc. node	2878 May 02 04:07	0°♊00'10	
	2878 May 02 04:04	0°♊	
	2878 May 26 16:21	0°♋	
	2878 Jun 20 11:38	0°♌	
	2878 Jul 15 16:32	0°♍	
	2878 Aug 10 12:47	0°♎	
desc. node	2878 Aug 21 17:37	12°♎39'07	
	2878 Sep 06 13:23	0°♏	
evening max el	2878 Sep 27 21:35	21°♏54'09	46°20'14
	2878 Oct 06 13:08	0°♐	
greatest brilliancy	2878 Nov 07 00:25	21°♐15'48	-4.9m
retrograde	2878 Nov 16 11:27	22°♐54'56	
evening set	2878 Dec 01 00:49	18°♐45'34	
inferior conj	2878 Dec 07 00:57	15°♐15'13	-1°30'06
minimum elong	2878 Dec 07 04:23	15°♐09'59	1°29'01
min. Earth dist.	2878 Dec 07 09:31	15°♐02'10	0.26638 AU
asc. node	2878 Dec 12 20:42	11°♐50'39	
morning rise	2878 Dec 13 07:37	11°♐36'05	
direct	2878 Dec 27 14:52	7°♐33'00	
greatest brilliancy	2879 Jan 07 02:01	9°♐38'02	-4.9m
	2879 Feb 05 02:59	0°♑	
morning max el	2879 Feb 16 05:43	10°♑46'20	46°56'01
	2879 Mar 06 09:33	0°♒	
	2879 Apr 01 20:43	0°♓	
desc. node	2879 Apr 03 10:31	1°♓49'49	
	2879 Apr 27 09:11	0°♈	
	2879 May 22 11:59	0°♉	
	2879 Jun 16 09:56	0°♊	
	2879 Jul 11 04:13	0°♋	
asc. node	2879 Jul 25 13:42	17°♋32'05	
	2879 Aug 04 18:21	0°♌	
morning set	2879 Aug 17 01:11	15°♌04'43	
	2879 Aug 29 03:53	0°♍	
max. Earth dist.	2879 Sep 19 08:05	26°♍12'43	1.72659 AU
	2879 Sep 22 09:20	0°♎	
superior conj	2879 Sep 22 14:04	0°♎14'42	1°24'41
minimum elong	2879 Sep 22 15:47	0°♎20'02	1°24'41
	2879 Oct 16 12:05	0°♏	
evening rise	2879 Oct 30 09:14	17°♏18'03	
	2879 Nov 09 13:32	0°♐	
desc. node	2879 Nov 14 03:20	5°♐42'30	
	2879 Dec 03 14:36	0°♑	
	2879 Dec 27 16:01	0°♒	
	2880 Jan 20 19:36	0°♓	
	2880 Feb 14 05:11	0°♈	
asc. node	2880 Mar 06 06:19	25°♈23'11	
	2880 Mar 10 03:31	0°♉	
	2880 Apr 05 02:50	0°♊	
	2880 May 03 10:32	0°♋	
evening max el	2880 May 04 05:18	0°♋45'53	45°45'04
greatest brilliancy	2880 Jun 11 04:08	28°♋59'30	-4.7m
	2880 Jun 14 05:00	0°♌	
retrograde	2880 Jun 22 03:43	1°♌09'53	
desc. node	2880 Jun 25 20:01	0°♌53'55	
	2880 Jun 29 19:54	30°℞♋	
evening set	2880 Jul 07 11:21	26°♋39'27	
inferior conj	2880 Jul 13 16:03	22°♋55'31	-4°03'06
minimum elong	2880 Jul 13 08:01	23°♋08'09	4°01'00
min. Earth dist.	2880 Jul 13 11:08	23°♋03'14	0.28997 AU
morning rise	2880 Jul 19 04:45	19°♋33'56	
direct	2880 Aug 04 07:15	14°♋38'58	
greatest brilliancy	2880 Aug 14 14:03	16°♋32'41	-4.7m
	2880 Sep 05 17:10	0°♌	
morning max el	2880 Sep 22 06:47	14°♌46'39	45°56'58
	2880 Oct 07 06:12	0°♍	
asc. node	2880 Oct 16 23:07	10°♍29'43	
	2880 Nov 03 04:47	0°♎	
	2880 Nov 28 12:33	0°♏	
	2880 Dec 23 02:07	0°♐	
	2881 Jan 16 07:06	0°♑	
desc. node	2881 Feb 05 12:50	25°♑14'05	
	2881 Feb 09 08:27	0°♒	
	2881 Mar 05 08:51	0°♓	
morning set	2881 Mar 28 02:03	28°♓20'12	
	2881 Mar 29 10:06	0°♈	
	2881 Apr 22 13:27	0°♉	
superior conj	2881 May 05 21:26	16°♉30'33	-0°52'51
minimum elong	2881 May 06 07:09	17°♉00'35	0°52'28
max. Earth dist.	2881 May 09 00:44	20°♉23'15	1.72880 AU
	2881 May 16 19:33	0°♊	
asc. node	2881 May 29 16:01	15°♊50'35	
	2881 Jun 10 04:19	0°♋	
evening rise	2881 Jun 12 13:25	2°♋55'23	
	2881 Jul 04 15:22	0°♌	
	2881 Jul 29 04:55	0°♍	

	2881 Aug 22 22:08	0°♎	
	2881 Sep 16 21:01	0°♏	
desc. node	2881 Sep 18 05:32	1°♏37'08	
	2881 Oct 12 04:30	0°♐	
	2881 Nov 07 02:42	0°♑	
	2881 Dec 04 11:09	0°♒	
evening max el	2881 Dec 09 18:45	5°♒28'08	47°13'35
	2882 Jan 06 14:31	0°♓	
asc. node	2882 Jan 09 08:41	1°♓50'10	
greatest brilliancy	2882 Jan 19 11:30	7°♓02'34	-4.9m
retrograde	2882 Jan 29 15:25	9°♓01'26	
evening set	2882 Feb 15 12:59	3°♓26'57	
min. Earth dist.	2882 Feb 18 15:07	1°♓34'02	0.27126 AU
inferior conj	2882 Feb 19 09:34	1°♓05'23	8°17'23
minimum elong	2882 Feb 19 02:01	1°♓17'07	8°16'28
	2882 Feb 21 03:50	30°♑℞♒	
morning rise	2882 Feb 22 15:15	29°♒06'19	
direct	2882 Mar 11 22:05	23°♒19'27	
greatest brilliancy	2882 Mar 21 00:33	24°♒52'44	-4.9m
	2882 Mar 31 17:16	0°♓	
morning max el	2882 Apr 30 13:21	24°♓44'40	46°18'47
desc. node	2882 Apr 30 22:13	25°♓06'23	
	2882 May 05 20:05	0°♈	
	2882 Jun 02 22:11	0°♉	
	2882 Jun 29 08:10	0°♊	
	2882 Jul 24 23:33	0°♋	
	2882 Aug 19 02:21	0°♌	
asc. node	2882 Aug 22 01:25	3°♌34'22	
	2882 Sep 12 18:46	0°♍	
	2882 Oct 07 02:50	0°♎	
morning set	2882 Oct 25 11:12	22°♎49'36	
	2882 Oct 31 05:03	0°♏	
	2882 Nov 24 03:55	0°♐	
max. Earth dist.	2882 Dec 01 19:23	9°♐35'48	1.71342 AU
superior conj	2882 Dec 03 12:00	11°♐43'19	0°19'22
minimum elong	2882 Dec 03 16:49	11°♐58'29	0°19'08
desc. node	2882 Dec 11 15:15	21°♐56'30	
	2882 Dec 18 01:10	0°♑	
	2883 Jan 10 21:59	0°♒	
evening rise	2883 Jan 13 12:40	3°♒16'53	
	2883 Feb 03 19:35	0°♓	
	2883 Feb 27 19:54	0°♈	
	2883 Mar 24 01:40	0°♉	
asc. node	2883 Apr 03 18:14	13°♉06'02	
	2883 Apr 17 16:18	0°♊	
	2883 May 12 20:25	0°♋	
	2883 Jun 07 22:31	0°♌	
	2883 Jul 05 21:14	0°♍	
evening max el	2883 Jul 14 19:56	8°♍48'55	45°28'30
desc. node	2883 Jul 24 07:51	17°♍31'19	
	2883 Aug 09 10:23	0°♎	
greatest brilliancy	2883 Aug 22 20:06	6°♎47'08	-4.7m
retrograde	2883 Sep 01 12:18	8°♎28'33	
evening set	2883 Sep 19 13:58	2°♎23'59	
inferior conj	2883 Sep 22 18:23	0°♎27'16	-8°40'05
minimum elong	2883 Sep 22 20:04	0°♎24'39	8°40'02
min. Earth dist.	2883 Sep 23 10:36	0°♎02'10	0.28486 AU
	2883 Sep 23 12:00	30°♑℞♍	
morning rise	2883 Sep 26 01:59	28°♍25'18	
direct	2883 Oct 14 03:26	22°♍15'35	
greatest brilliancy	2883 Oct 25 06:21	24°♍32'20	-4.8m
	2883 Nov 04 15:17	0°♎	
asc. node	2883 Nov 14 10:53	7°♎14'00	
morning max el	2883 Dec 03 12:57	24°♎52'03	46°40'41
	2883 Dec 08 12:52	0°♏	
	2884 Jan 04 15:23	0°♐	
	2884 Jan 30 01:28	0°♑	
	2884 Feb 23 19:53	0°♒	
desc. node	2884 Mar 05 00:36	12°♒27'40	
	2884 Mar 19 07:47	0°♓	
	2884 Apr 12 17:24	0°♈	
	2884 May 07 02:54	0°♉	
	2884 May 31 13:05	0°♊	
morning set	2884 Jun 06 21:49	7°♊48'41	
	2884 Jun 24 23:36	0°♋	
asc. node	2884 Jun 26 03:53	1°♋26'49	
max. Earth dist.	2884 Jul 12 18:07	21°♋49'52	1.73557 AU
superior conj	2884 Jul 13 16:55	22°♋59'55	0°40'11
minimum elong	2884 Jul 13 09:33	22°♋37'17	0°39'52
	2884 Jul 19 09:33	0°♌	
	2884 Aug 12 18:24	0°♍	
evening rise	2884 Aug 18 13:57	7°♍09'57	
	2884 Sep 06 02:32	0°♎	
	2884 Sep 30 10:57	0°♏	
desc. node	2884 Oct 15 17:28	18°♏47'04	
	2884 Oct 24 20:38	0°♐	
	2884 Nov 18 08:31	0°♑	
	2884 Dec 13 00:39	0°♒	
	2885 Jan 07 02:59	0°♓	
	2885 Feb 02 07:01	0°♈	
asc. node	2885 Feb 05 20:25	3°♈54'25	
evening max el	2885 Feb 19 19:26	18°♈36'48	46°50'21
	2885 Mar 03 15:32	0°♉	
greatest brilliancy	2885 Mar 31 13:32	19°♉13'40	-4.8m
retrograde	2885 Apr 11 05:15	21°♉20'43	
evening set	2885 Apr 27 14:46	16°♉03'57	
inferior conj	2885 May 02 09:27	13°♉07'46	5°45'52
minimum elong	2885 May 02 19:21	12°♉52'13	5°43'36
min. Earth dist.	2885 May 02 07:35	13°♉10'42	0.28356 AU
morning rise	2885 May 08 00:21	9°♉43'43	
direct	2885 May 23 14:27	5°♉00'36	
desc. node	2885 May 28 10:04	5°♉27'13	
greatest brilliancy	2885 Jun 02 09:42	6°♉46'22	-4.7m
	2885 Jul 06 03:16	0°♊	
morning max el	2885 Jul 11 11:35	4°♊59'47	45°44'45
	2885 Aug 04 22:51	0°♋	
	2885 Aug 31 21:07	0°♌	
asc. node	2885 Sep 18 13:21	20°♌34'29	
	2885 Sep 26 12:02	0°♍	
	2885 Oct 21 07:52	0°♎	
	2885 Nov 14 15:40	0°♏	
	2885 Dec 08 16:38	0°♐	
	2886 Jan 01 14:19	0°♑	
morning set	2886 Jan 07 19:14	7°♑47'58	
desc. node	2886 Jan 08 03:00	8°♑12'25	
	2886 Jan 25 10:53	0°♒	
superior conj	2886 Feb 18 11:06	0°♓10'31	-1°18'55
minimum elong	2886 Feb 18 02:05	29°♒42'12	1°18'44
	2886 Feb 18 07:45	0°♓	
max. Earth dist.	2886 Feb 21 12:57	4°♓02'18	1.71360 AU
	2886 Mar 14 06:20	0°♈	
evening rise	2886 Mar 30 23:30	20°♈50'56	
	2886 Apr 07 08:14	0°♉	
asc. node	2886 May 01 06:15	29°♉33'24	
	2886 May 01 14:53	0°♊	
	2886 May 26 03:26	0°♋	
	2886 Jun 19 23:11	0°♌	
	2886 Jul 15 04:56	0°♍	
	2886 Aug 10 02:48	0°♎	
desc. node	2886 Aug 20 19:36	12°♎02'27	
	2886 Sep 06 06:54	0°♏	

evening max el	2886 Sep 25 11:05	19°♏33'50	46°17'45
	2886 Oct 06 18:11	0°♐	
greatest brilliancy	2886 Nov 04 13:57	18°♐51'12	-4.9m
retrograde	2886 Nov 13 22:57	20°♐28'30	
evening set	2886 Nov 28 14:57	16°♐17'07	
inferior conj	2886 Dec 04 13:23	12°♐48'57	-1°53'59
minimum elong	2886 Dec 04 17:41	12°♐42'23	1°52'37
min. Earth dist.	2886 Dec 04 23:40	12°♐33'16	0.26673 AU
morning rise	2886 Dec 10 19:58	9°♐09'22	
asc. node	2886 Dec 11 22:50	8°♐34'42	
direct	2886 Dec 25 03:33	5°♐06'01	
greatest brilliancy	2887 Jan 04 16:38	7°♐12'22	-4.9m
	2887 Feb 05 06:44	0°♑	
morning max el	2887 Feb 13 18:10	8°♑18'54	46°56'39
	2887 Mar 06 03:09	0°♒	
	2887 Apr 01 11:02	0°♓	
desc. node	2887 Apr 02 12:35	1°♓14'24	
	2887 Apr 26 21:54	0°♈	
	2887 May 21 23:47	0°♉	
	2887 Jun 15 21:10	0°♊	
	2887 Jul 10 15:07	0°♋	
asc. node	2887 Jul 24 15:38	17°♋05'12	
	2887 Aug 04 05:03	0°♌	
morning set	2887 Aug 14 18:51	12°♌58'47	
	2887 Aug 28 14:29	0°♍	
max. Earth dist.	2887 Sep 16 23:57	24°♍00'07	1.72709 AU
superior conj	2887 Sep 20 07:04	28°♍05'33	1°24'55
minimum elong	2887 Sep 20 08:03	28°♍08'35	1°24'54
	2887 Sep 21 19:57	0°♎	
	2887 Oct 15 22:49	0°♏	
evening rise	2887 Oct 27 23:12	14°♏58'13	
	2887 Nov 09 00:29	0°♐	
desc. node	2887 Nov 13 05:27	5°♐14'53	
	2887 Dec 03 01:46	0°♑	
	2887 Dec 27 03:28	0°♒	
	2888 Jan 20 07:23	0°♓	
	2888 Feb 13 17:31	0°♈	
asc. node	2888 Mar 05 08:21	24°♈50'16	
	2888 Mar 09 16:50	0°♉	
	2888 Apr 04 18:15	0°♊	
evening max el	2888 May 01 20:01	28°♊31'58	45°46'50
	2888 May 03 08:17	0°♋	
greatest brilliancy	2888 Jun 08 20:40	26°♋51'38	-4.7m
retrograde	2888 Jun 19 19:54	29°♋02'23	
desc. node	2888 Jun 24 21:59	28°♋31'40	
evening set	2888 Jul 05 02:36	24°♋33'23	
inferior conj	2888 Jul 11 08:39	20°♋47'53	-3°45'32
minimum elong	2888 Jul 11 01:04	20°♋59'48	3°43'32
min. Earth dist.	2888 Jul 11 04:02	20°♋55'09	0.28988 AU
morning rise	2888 Jul 16 23:31	17°♋23'06	
direct	2888 Aug 01 23:07	12°♋31'17	
greatest brilliancy	2888 Aug 12 06:52	14°♋25'26	-4.7m
	2888 Sep 06 00:23	0°♌	
morning max el	2888 Sep 19 21:48	12°♌33'51	45°55'47
	2888 Oct 06 23:39	0°♍	
asc. node	2888 Oct 16 01:14	9°♍51'36	
	2888 Nov 02 18:52	0°♎	
	2888 Nov 28 01:16	0°♏	
	2888 Dec 22 14:08	0°♐	
	2889 Jan 15 18:42	0°♑	
desc. node	2889 Feb 04 14:45	24°♑44'34	
	2889 Feb 08 19:47	0°♒	
	2889 Mar 04 19:59	0°♓	
morning set	2889 Mar 25 14:33	25°♓55'25	
	2889 Mar 28 21:03	0°♈	
	2889 Apr 22 00:16	0°♉	
superior conj	2889 May 03 12:47	14°♉16'21	-0°55'33
minimum elong	2889 May 03 22:44	14°♉47'07	0°55'10
max. Earth dist.	2889 May 06 16:27	18°♉10'19	1.72826 AU
	2889 May 16 06:16	0°♊	
asc. node	2889 May 28 18:07	15°♊24'06	
	2889 Jun 09 15:01	0°♋	
evening rise	2889 Jun 10 07:07	0°♋49'28	
	2889 Jul 04 02:11	0°♌	
	2889 Jul 28 16:02	0°♍	
	2889 Aug 22 09:45	0°♎	
	2889 Sep 16 09:27	0°♏	
desc. node	2889 Sep 17 07:34	1°♏05'56	
	2889 Oct 11 18:12	0°♐	
	2889 Nov 06 18:42	0°♑	
	2889 Dec 04 08:34	0°♒	
evening max el	2889 Dec 07 08:06	3°♒02'28	47°12'52
	2890 Jan 07 21:24	0°♓	
asc. node	2890 Jan 08 10:37	0°♓20'09	
greatest brilliancy	2890 Jan 17 01:04	4°♓35'48	-4.9m
retrograde	2890 Jan 27 04:58	6°♓34'58	
evening set	2890 Feb 12 22:07	1°♓06'30	
	2890 Feb 14 18:28	30°♑℞♒	
min. Earth dist.	2890 Feb 16 04:01	29°♒08'23	0.27079 AU
inferior conj	2890 Feb 16 22:39	28°♒39'33	8°08'13
minimum elong	2890 Feb 16 14:27	28°♒52'15	8°07'08
morning rise	2890 Feb 20 07:00	26°♒36'49	
direct	2890 Mar 09 10:30	20°♒54'03	
greatest brilliancy	2890 Mar 18 13:38	22°♒28'11	-4.9m
	2890 Apr 01 23:19	0°♓	
morning max el	2890 Apr 28 03:37	22°♓25'12	46°20'32
desc. node	2890 Apr 30 00:22	24°♓15'28	
	2890 May 05 17:01	0°♈	
	2890 Jun 02 13:41	0°♉	
	2890 Jun 28 21:26	0°♊	
	2890 Jul 24 11:38	0°♋	
	2890 Aug 18 13:46	0°♌	
asc. node	2890 Aug 21 03:30	3°♌06'15	
	2890 Sep 12 05:52	0°♍	
	2890 Oct 06 13:48	0°♎	
morning set	2890 Oct 23 02:17	20°♎32'47	
	2890 Oct 30 16:01	0°♏	
	2890 Nov 23 14:55	0°♐	
max. Earth dist.	2890 Nov 29 06:39	7°♐05'51	1.71375 AU
superior conj	2890 Nov 30 23:41	9°♐14'37	0°23'06
minimum elong	2890 Dec 01 05:20	9°♐32'23	0°22'49
desc. node	2890 Dec 10 17:15	21°♐28'03	
	2890 Dec 17 12:15	0°♑	
	2891 Jan 10 09:08	0°♒	
evening rise	2891 Jan 10 22:57	0°♒43'24	
	2891 Feb 03 06:50	0°♓	
	2891 Feb 27 07:18	0°♈	
	2891 Mar 23 13:19	0°♉	
asc. node	2891 Apr 02 20:22	12°♉36'26	
	2891 Apr 17 04:25	0°♊	
	2891 May 12 09:26	0°♋	
	2891 Jun 07 13:25	0°♌	
	2891 Jul 05 17:07	0°♍	
evening max el	2891 Jul 12 11:59	6°♍38'38	45°28'02
desc. node	2891 Jul 23 09:51	16°♍34'24	
	2891 Aug 10 15:06	0°♎	
greatest brilliancy	2891 Aug 20 08:56	4°♎32'34	-4.7m
retrograde	2891 Aug 30 03:28	6°♎15'33	
evening set	2891 Sep 17 04:49	0°♎10'57	
	2891 Sep 17 12:07	30°♏℞♍	
inferior conj	2891 Sep 20 09:39	28°♍13'22	-8°40'55
minimum elong	2891 Sep 20 10:33	28°♍11'59	8°40'54

min. Earth dist.	2891 Sep 21	00:30	27°♍50'22	0.28539 AU
morning rise	2891 Sep 23	16:07	26°♍13'01	
direct	2891 Oct 11	19:55	20°♍01'12	
greatest brilliancy	2891 Oct 22	20:53	22°♍16'19	-4.8m
	2891 Nov 05	14:40	0°♎	
asc. node	2891 Nov 13	12:59	6°♎08'47	
morning max el	2891 Dec 01	04:39	22°♎34'56	46°39'04
	2891 Dec 08	08:59	0°♏	
	2892 Jan 04	06:54	0°♐	
	2892 Jan 29	15:09	0°♑	
	2892 Feb 23	08:34	0°♒	
desc. node	2892 Mar 04	02:44	11°♒56'16	
	2892 Mar 18	19:50	0°♓	
	2892 Apr 12	05:01	0°♈	
	2892 May 06	14:11	0°♉	
	2892 May 31	00:07	0°♊	
morning set	2892 Jun 04	15:03	5°♊40'28	
	2892 Jun 24	10:30	0°♋	
asc. node	2892 Jun 25	05:49	0°♋59'18	
max. Earth dist.	2892 Jul 10	16:47	19°♋58'34	1.73556 AU
superior conj	2892 Jul 11	11:05	20°♋54'49	0°37'22
minimum elong	2892 Jul 11	04:06	20°♋33'21	0°37'04
	2892 Jul 18	20:24	0°♌	
	2892 Aug 12	05:19	0°♍	
evening rise	2892 Aug 16	08:28	5°♍05'28	
	2892 Sep 05	13:36	0°♎	
	2892 Sep 29	22:18	0°♏	
desc. node	2892 Oct 14	19:37	18°♏17'59	
	2892 Oct 24	08:25	0°♐	
	2892 Nov 17	20:55	0°♑	
	2892 Dec 12	13:56	0°♒	
	2893 Jan 06	17:44	0°♓	
	2893 Feb 02	00:54	0°♈	
asc. node	2893 Feb 04	22:29	3°♈09'41	
evening max el	2893 Feb 17	11:08	16°♈19'12	46°52'19
	2893 Mar 03	20:36	0°♉	
greatest brilliancy	2893 Mar 29	05:59	16°♉58'35	-4.8m
retrograde	2893 Apr 08	21:01	19°♉04'44	
evening set	2893 Apr 25	09:10	13°♉44'14	
inferior conj	2893 Apr 30	00:48	10°♉52'13	6°01'43
minimum elong	2893 Apr 30	10:49	10°♉36'28	5°59'31
min. Earth dist.	2893 Apr 29	22:34	10°♉55'43	0.28323 AU
morning rise	2893 May 05	12:54	7°♉31'55	
direct	2893 May 21	05:44	2°♉45'50	
desc. node	2893 May 27	12:04	3°♉30'19	
greatest brilliancy	2893 May 30	23:20	4°♉30'14	-4.7m
	2893 Jul 06	04:08	0°♊	
morning max el	2893 Jul 09	02:48	2°♊46'52	45°45'12
	2893 Aug 04	15:19	0°♋	
	2893 Aug 31	10:49	0°♌	
asc. node	2893 Sep 17	15:26	20°♌03'05	
	2893 Sep 26	00:28	0°♍	
	2893 Oct 20	19:39	0°♎	
	2893 Nov 14	03:07	0°♏	
	2893 Dec 08	03:56	0°♐	
	2894 Jan 01	01:34	0°♑	
morning set	2894 Jan 05	05:32	5°♑14'11	
desc. node	2894 Jan 07	04:57	7°♑43'14	
	2894 Jan 24	22:08	0°♒	
superior conj	2894 Feb 15	21:27	27°♒37'08	-1°17'13
minimum elong	2894 Feb 15	11:45	27°♒06'39	1°17'00
	2894 Feb 17	18:58	0°♓	
max. Earth dist.	2894 Feb 18	20:31	1°♓20'13	1.71325 AU
	2894 Mar 13	17:31	0°♈	
evening rise	2894 Mar 28	11:22	18°♈23'37	
	2894 Apr 06	19:26	0°♉	
asc. node	2894 Apr 30	08:16	29°♉04'51	
	2894 May 01	02:12	0°♊	
	2894 May 25	14:59	0°♋	
	2894 Jun 19	11:12	0°♌	
	2894 Jul 14	17:50	0°♍	
	2894 Aug 09	17:22	0°♎	
desc. node	2894 Aug 19	21:41	11°♎24'42	
	2894 Sep 06	01:12	0°♏	
evening max el	2894 Sep 22	23:52	17°♏11'10	46°15'28
	2894 Oct 07	01:41	0°♐	
greatest brilliancy	2894 Nov 02	03:48	16°♐26'57	-4.8m
retrograde	2894 Nov 11	10:38	18°♐02'41	
evening set	2894 Nov 26	05:30	13°♐48'37	
inferior conj	2894 Dec 02	02:07	10°♐23'05	-2°17'14
minimum elong	2894 Dec 02	07:15	10°♐15'16	2°15'38
min. Earth dist.	2894 Dec 02	14:10	10°♐04'43	0.26714 AU
morning rise	2894 Dec 08	08:25	6°♐43'28	
asc. node	2894 Dec 11	00:42	5°♐23'46	
direct	2894 Dec 22	16:13	2°♐39'11	
greatest brilliancy	2895 Jan 02	07:56	4°♐47'33	-4.9m
	2895 Feb 05	09:10	0°♑	
morning max el	2895 Feb 11	06:45	5°♑50'52	46°56'59
	2895 Mar 05	20:44	0°♒	
	2895 Apr 01	01:39	0°♓	
desc. node	2895 Apr 01	14:39	0°♓37'59	
	2895 Apr 26	11:02	0°♈	
	2895 May 21	12:01	0°♉	
	2895 Jun 15	08:50	0°♊	
	2895 Jul 10	02:23	0°♋	
asc. node	2895 Jul 23	17:41	16°♋37'34	
	2895 Aug 03	16:05	0°♌	
morning set	2895 Aug 12	12:17	10°♌51'07	
	2895 Aug 28	01:25	0°♍	
max. Earth dist.	2895 Sep 14	17:24	21°♍51'30	1.72756 AU
superior conj	2895 Sep 18	00:07	25°♍55'34	1°25'00
minimum elong	2895 Sep 18	00:22	25°♍56'19	1°25'01
	2895 Sep 21	06:55	0°♎	
	2895 Oct 15	09:53	0°♏	
evening rise	2895 Oct 25	13:33	12°♏38'47	
	2895 Nov 08	11:42	0°♐	
desc. node	2895 Nov 12	07:26	4°♐45'59	
	2895 Dec 02	13:10	0°♑	
	2895 Dec 26	15:06	0°♒	
	2896 Jan 19	19:24	0°♓	
	2896 Feb 13	06:07	0°♈	
asc. node	2896 Mar 04	10:25	24°♈16'28	
	2896 Mar 09	06:32	0°♉	
	2896 Apr 04	10:20	0°♊	
evening max el	2896 Apr 29	10:46	26°♊16'43	45°48'36
	2896 May 03	07:33	0°♋	
greatest brilliancy	2896 Jun 06	12:32	24°♋41'10	-4.7m
retrograde	2896 Jun 17	12:20	26°♋52'56	
desc. node	2896 Jun 23	23:57	26°♋02'41	
evening set	2896 Jul 02	17:44	22°♋25'01	
inferior conj	2896 Jul 09	00:58	18°♋38'13	-3°27'31
minimum elong	2896 Jul 08	17:51	18°♋49'22	3°25'36
min. Earth dist.	2896 Jul 08	20:26	18°♋45'19	0.28977 AU
morning rise	2896 Jul 14	17:58	15°♋10'35	
direct	2896 Jul 30	14:47	10°♋21'33	
greatest brilliancy	2896 Aug 09	23:19	12°♋16'20	-4.7m
	2896 Sep 06	05:56	0°♌	
morning max el	2896 Sep 17	13:26	10°♌21'45	45°54'43
	2896 Oct 06	17:01	0°♍	
asc. node	2896 Oct 15	03:16	9°♍12'52	
	2896 Nov 02	09:03	0°♎	

	2896 Nov 27 14:06	0°♏		
	2896 Dec 22 02:16	0°♐		
	2897 Jan 15 06:24	0°♑		
desc. node	2897 Feb 03 16:55	24°♑15'34		
	2897 Feb 08 07:11	0°♒		
	2897 Mar 04 07:11	0°♓		
morning set	2897 Mar 23 03:04	23°♓30'15		
	2897 Mar 28 08:07	0°♈		
	2897 Apr 21 11:14	0°♉		
superior conj	2897 May 01 03:52	12°♉00'44	-0°58'10	
minimum elong	2897 May 01 14:00	12°♉32'07	0°57'48	
max. Earth dist.	2897 May 04 07:30	15°♉54'44	1.72783 AU	
	2897 May 15 17:11	0°♊		
asc. node	2897 May 27 20:02	14°♊56'26		
evening rise	2897 Jun 08 00:25	28°♊41'36		
	2897 Jun 09 01:56	0°♋		
	2897 Jul 03 13:15	0°♌		
	2897 Jul 28 03:23	0°♍		
	2897 Aug 21 21:37	0°♎		
	2897 Sep 15 22:07	0°♏		
desc. node	2897 Sep 16 09:40	0°♏34'23		
	2897 Oct 11 08:11	0°♐		
	2897 Nov 06 11:06	0°♑		
	2897 Dec 04 06:54	0°♒		
evening max el	2897 Dec 04 22:33	0°♒39'36	47°12'10	
asc. node	2898 Jan 07 12:43	28°♒47'19		
	2898 Jan 09 18:33	0°♓		
greatest brilliancy	2898 Jan 14 14:09	2°♓08'39	-4.9m	
retrograde	2898 Jan 24 19:01	4°♓08'38		
	2898 Feb 08 02:54	30°℞♒		
evening set	2898 Feb 10 07:17	28°♒46'19		
min. Earth dist.	2898 Feb 13 16:39	26°♒43'24	0.27028 AU	
inferior conj	2898 Feb 14 11:46	26°♒13'53	7°58'11	
minimum elong	2898 Feb 14 02:59	26°♒27'26	7°56'55	
morning rise	2898 Feb 17 22:57	24°♒07'19		
direct	2898 Mar 06 23:31	18°♒29'07		
greatest brilliancy	2898 Mar 16 02:09	20°♒03'24	-4.9m	
	2898 Apr 02 20:52	0°♓		
morning max el	2898 Apr 25 18:19	20°♓07'10	46°22'05	
desc. node	2898 Apr 29 02:22	23°♓25'31		
	2898 May 05 13:08	0°♈		
	2898 Jun 02 04:55	0°♉		
	2898 Jun 28 10:37	0°♊		
	2898 Jul 23 23:44	0°♋		
	2898 Aug 18 01:16	0°♌		
asc. node	2898 Aug 20 05:37	2°♌38'06		
	2898 Sep 11 17:01	0°♍		
	2898 Oct 06 00:47	0°♎		
morning set	2898 Oct 20 17:17	18°♎15'53		
	2898 Oct 30 02:57	0°♏		
	2898 Nov 23 01:53	0°♐		
max. Earth dist.	2898 Nov 26 16:37	4°♐32'03	1.71408 AU	
superior conj	2898 Nov 28 11:28	6°♐46'27	0°26'45	
minimum elong	2898 Nov 28 17:53	7°♐06'37	0°26'26	
desc. node	2898 Dec 09 19:14	20°♐59'40		
	2898 Dec 16 23:17	0°♑		
evening rise	2899 Jan 08 09:21	28°♑10'23		
	2899 Jan 09 20:15	0°♒		
	2899 Feb 02 18:01	0°♓		
	2899 Feb 26 18:35	0°♈		
	2899 Mar 23 00:49	0°♉		
asc. node	2899 Apr 01 22:23	12°♉06'57		
	2899 Apr 16 16:23	0°♊		
	2899 May 11 22:21	0°♋		
	2899 Jun 07 04:24	0°♌		
	2899 Jul 05 13:37	0°♍		
evening max el	2899 Jul 10 03:53	4°♍28'02	45°27'21	
desc. node	2899 Jul 22 11:58	15°♍36'29		
	2899 Aug 12 08:59	0°♎		
greatest brilliancy	2899 Aug 17 22:16	2°♎18'21	-4.7m	
retrograde	2899 Aug 27 18:08	4°♎02'08		
	2899 Sep 11 05:30	30°℞♍		
evening set	2899 Sep 14 19:10	27°♍58'25		
inferior conj	2899 Sep 18 00:49	25°♍59'20	-8°40'54	
minimum elong	2899 Sep 18 00:52	25°♍59'14	8°40'55	
min. Earth dist.	2899 Sep 18 14:29	25°♍38'07	0.28587 AU	
morning rise	2899 Sep 21 06:27	24°♍00'00		
direct	2899 Oct 09 12:05	17°♍46'50		
greatest brilliancy	2899 Oct 20 11:18	20°♍00'08	-4.8m	
	2899 Nov 06 07:54	0°♎		
asc. node	2899 Nov 12 14:55	5°♎05'04		
morning max el	2899 Nov 28 19:12	20°♎15'18	46°37'32	
	2899 Dec 08 04:22	0°♏		
	2900 Jan 03 22:01	0°♐		
	2900 Jan 29 04:30	0°♑		
	2900 Feb 22 20:58	0°♒		
desc. node	2900 Mar 04 04:45	11°♒25'17		
	2900 Mar 19 07:38	0°♓		
	2900 Apr 12 16:21	0°♈		
	2900 May 07 01:10	0°♉		
	2900 May 31 10:52	0°♊		
morning set	2900 Jun 03 08:29	3°♊33'45		
	2900 Jun 24 21:07	0°♋		
asc. node	2900 Jun 25 07:55	0°♋33'11		
max. Earth dist.	2900 Jul 09 14:37	18°♋05'38	1.73559 AU	
superior conj	2900 Jul 10 05:20	18°♋50'52	0°34'31	
minimum elong	2900 Jul 09 22:47	18°♋30'43	0°34'13	
	2900 Jul 19 07:01	0°♌		
	2900 Aug 12 16:01	0°♍		
evening rise	2900 Aug 15 02:57	3°♍01'30		
	2900 Sep 06 00:29	0°♎		
	2900 Sep 30 09:30	0°♏		
desc. node	2900 Oct 14 21:32	17°♏48'42		
	2900 Oct 24 20:03	0°♐		
	2900 Nov 18 09:09	0°♑		
	2900 Dec 13 03:03	0°♒		
	2901 Jan 07 08:21	0°♓		
	2901 Feb 02 18:51	0°♈		
asc. node	2901 Feb 05 00:35	2°♈25'26		
evening max el	2901 Feb 16 02:00	14°♈00'14	46°54'14	
	2901 Mar 05 03:17	0°♉		
greatest brilliancy	2901 Mar 27 22:59	14°♉45'07	-4.8m	
retrograde	2901 Apr 07 12:22	16°♉49'53		
evening set	2901 Apr 24 03:40	11°♉25'40		
inferior conj	2901 Apr 28 16:16	8°♉37'57	6°17'00	
minimum elong	2901 Apr 29 02:18	8°♉22'08	6°14'53	
min. Earth dist.	2901 Apr 28 13:55	8°♉41'40	0.28288 AU	
morning rise	2901 May 04 01:21	5°♉21'36		
direct	2901 May 19 20:40	0°♉32'20		
desc. node	2901 May 27 14:01	1°♉39'02		
greatest brilliancy	2901 May 29 13:31	2°♉15'54	-4.8m	
	2901 Jul 07 03:18	0°♊		
morning max el	2901 Jul 07 17:10	0°♊33'03	45°45'44	
	2901 Aug 05 07:02	0°♋		
	2901 Sep 01 00:01	0°♌		
asc. node	2901 Sep 17 17:26	19°♌32'32		
	2901 Sep 26 12:32	0°♍		
	2901 Oct 21 07:08	0°♎		
	2901 Nov 14 14:19	0°♏		
	2901 Dec 08 14:59	0°♐		
	2902 Jan 01 12:32	0°♑		

morning set	2902 Jan 03 15:42	2°♉40'50	
desc. node	2902 Jan 07 07:07	7°♉15'37	
	2902 Jan 25 09:02	0°♒	
superior conj	2902 Feb 14 07:43	25°♒04'35	-1°15'21
minimum elong	2902 Feb 13 21:23	24°♒32'10	1°15'06
max. Earth dist.	2902 Feb 17 01:51	28°♒32'16	1.71290 AU
	2902 Feb 18 05:49	0°♓	
	2902 Mar 14 04:20	0°♈	
evening rise	2902 Mar 26 23:12	15°♈57'16	
	2902 Apr 07 06:16	0°♉	
asc. node	2902 Apr 30 10:14	28°♉37'16	
	2902 May 01 13:08	0°♊	
	2902 May 26 02:09	0°♋	
	2902 Jun 19 22:49	0°♌	
	2902 Jul 15 06:21	0°♍	
	2902 Aug 10 07:41	0°♎	
desc. node	2902 Aug 19 23:45	10°♎47'46	
	2902 Sep 06 19:34	0°♏	
evening max el	2902 Sep 21 11:56	14°♏47'50	46°12'57
	2902 Oct 08 11:34	0°♐	
greatest brilliancy	2902 Oct 31 17:05	14°♐02'25	-4.8m
retrograde	2902 Nov 09 22:20	15°♐37'11	
evening set	2902 Nov 24 19:56	11°♐19'47	
inferior conj	2902 Nov 30 14:37	7°♐57'15	-2°40'18
minimum elong	2902 Nov 30 20:32	7°♐48'14	2°38'29
min. Earth dist.	2902 Dec 01 04:22	7°♐36'17	0.26762 AU
morning rise	2902 Dec 06 20:27	4°♐18'08	
asc. node	2902 Dec 11 02:51	2°♐16'52	
direct	2902 Dec 21 04:46	0°♐12'08	
greatest brilliancy	2902 Dec 31 23:09	2°♐22'57	-4.9m
	2903 Feb 06 10:01	0°♑	
morning max el	2903 Feb 09 19:50	3°♑24'45	46°57'31
	2903 Mar 06 13:38	0°♒	
desc. node	2903 Apr 01 16:40	0°♓02'49	
	2903 Apr 01 15:42	0°♓	
	2903 Apr 26 23:40	0°♈	
	2903 May 21 23:48	0°♉	
	2903 Jun 15 20:03	0°♊	
	2903 Jul 10 13:14	0°♋	
asc. node	2903 Jul 23 19:50	16°♋11'27	
	2903 Aug 04 02:41	0°♌	
morning set	2903 Aug 11 06:11	8°♌46'08	
	2903 Aug 28 11:56	0°♍	
max. Earth dist.	2903 Sep 13 13:45	19°♍53'05	1.72805 AU
superior conj	2903 Sep 16 17:34	23°♍48'05	1°24'58
minimum elong	2903 Sep 16 17:06	23°♍46'38	1°24'59
	2903 Sep 21 17:28	0°♎	
	2903 Oct 15 20:36	0°♏	
evening rise	2903 Oct 24 04:14	10°♏21'29	
	2903 Nov 08 22:37	0°♐	
desc. node	2903 Nov 12 09:29	4°♐18'13	
	2903 Dec 03 00:20	0°♑	
	2903 Dec 27 02:33	0°♒	
	2904 Jan 20 07:13	0°♓	
	2904 Feb 13 18:32	0°♈	
asc. node	2904 Mar 04 12:25	23°♈43'10	
	2904 Mar 09 20:03	0°♉	
	2904 Apr 05 02:18	0°♊	
evening max el	2904 Apr 28 02:13	24°♊04'26	45°50'35
	2904 May 04 07:21	0°♋	
greatest brilliancy	2904 Jun 05 04:17	22°♋32'04	-4.7m
retrograde	2904 Jun 16 05:23	24°♋45'11	
desc. node	2904 Jun 24 02:09	23°♋30'51	
evening set	2904 Jul 01 09:16	20°♋18'08	
inferior conj	2904 Jul 07 17:27	16°♋30'09	-3°09'18
minimum elong	2904 Jul 07 10:52	16°♋40'27	3°07'29
min. Earth dist.	2904 Jul 07 12:43	16°♋37'33	0.28963 AU
morning rise	2904 Jul 13 12:31	12°♋59'57	
direct	2904 Jul 29 07:07	8°♋13'33	
greatest brilliancy	2904 Aug 08 15:26	10°♋08'32	-4.7m
	2904 Sep 07 08:58	0°♌	
morning max el	2904 Sep 16 05:54	8°♌13'16	45°53'43
	2904 Oct 07 09:32	0°♍	
asc. node	2904 Oct 15 05:15	8°♍35'44	
	2904 Nov 02 22:41	0°♎	
	2904 Nov 28 02:31	0°♏	
	2904 Dec 22 14:05	0°♐	
	2905 Jan 15 17:53	0°♑	
desc. node	2905 Feb 03 18:58	23°♑46'46	
	2905 Feb 08 18:25	0°♒	
	2905 Mar 04 18:13	0°♓	
morning set	2905 Mar 21 15:03	21°♓03'56	
	2905 Mar 28 18:59	0°♈	
	2905 Apr 21 21:58	0°♉	
superior conj	2905 Apr 29 18:36	9°♉44'39	-1°00'44
minimum elong	2905 Apr 30 04:52	10°♉16'27	1°00'22
max. Earth dist.	2905 May 03 00:20	13°♉45'17	1.72733 AU
	2905 May 16 03:50	0°♊	
asc. node	2905 May 27 22:09	14°♊30'07	
evening rise	2905 Jun 06 17:41	26°♊34'28	
	2905 Jun 09 12:36	0°♋	
	2905 Jul 04 00:03	0°♌	
	2905 Jul 28 14:29	0°♍	
	2905 Aug 22 09:13	0°♎	
desc. node	2905 Sep 16 11:39	0°♏03'20	
	2905 Sep 16 10:32	0°♏	
	2905 Oct 11 21:57	0°♐	
	2905 Nov 07 03:26	0°♑	
evening max el	2905 Dec 03 13:29	28°♑18'44	47°11'03
	2905 Dec 05 05:51	0°♒	
asc. node	2906 Jan 07 14:48	27°♒11'11	
greatest brilliancy	2906 Jan 13 02:54	29°♒41'09	-4.9m
	2906 Jan 13 23:49	0°♓	
retrograde	2906 Jan 23 08:50	1°♓41'41	
	2906 Feb 01 09:03	30°♑℞	
evening set	2906 Feb 08 16:11	26°♒25'47	
min. Earth dist.	2906 Feb 12 05:05	24°♒17'46	0.26982 AU
inferior conj	2906 Feb 13 00:38	23°♒47'36	7°47'06
minimum elong	2906 Feb 12 15:22	24°♒01'55	7°45'38
morning rise	2906 Feb 16 14:52	21°♒36'50	
direct	2906 Mar 05 12:44	16°♒03'43	
greatest brilliancy	2906 Mar 14 14:25	17°♒37'41	-4.9m
	2906 Apr 04 13:00	0°♓	
morning max el	2906 Apr 24 08:33	17°♓47'49	46°23'41
desc. node	2906 Apr 29 04:23	22°♓36'28	
	2906 May 06 08:39	0°♈	
	2906 Jun 02 19:50	0°♉	
	2906 Jun 28 23:33	0°♊	
	2906 Jul 24 11:36	0°♋	
	2906 Aug 18 12:32	0°♌	
asc. node	2906 Aug 20 07:32	2°♌09'55	
	2906 Sep 12 03:58	0°♍	
	2906 Oct 06 11:36	0°♎	
morning set	2906 Oct 19 08:51	16°♎01'21	
	2906 Oct 30 13:43	0°♏	
	2906 Nov 23 12:40	0°♐	
max. Earth dist.	2906 Nov 25 01:32	1°♐55'35	1.71441 AU
superior conj	2906 Nov 26 23:59	4°♐21'15	0°30'17
minimum elong	2906 Nov 27 07:06	4°♐43'36	0°29'57
desc. node	2906 Dec 09 21:23	20°♐32'24	

	2906 Dec 17 10:08	0°♌	
evening rise	2907 Jan 06 20:05	25°♌38'54	
	2907 Jan 10 07:13	0°♒	
	2907 Feb 03 05:08	0°♓	
	2907 Feb 27 05:52	0°♈	
	2907 Mar 23 12:22	0°♉	
asc. node	2907 Apr 02 00:21	11°♉37'13	
	2907 Apr 17 04:27	0°♊	
	2907 May 12 11:25	0°♋	
	2907 Jun 07 19:37	0°♌	
	2907 Jul 06 10:47	0°♍	
evening max el	2907 Jul 08 19:04	2°♍15'48	45°26'53
desc. node	2907 Jul 22 13:59	14°♍37'17	
	2907 Aug 16 05:51	0°♎	
greatest brilliancy	2907 Aug 16 12:25	0°♎05'38	-4.7m
retrograde	2907 Aug 26 08:39	1°♎49'41	
	2907 Sep 05 00:36	30°℞♍	
evening set	2907 Sep 13 09:25	25°♍47'24	
inferior conj	2907 Sep 16 16:12	23°♍46'20	-8°40'15
minimum elong	2907 Sep 16 15:26	23°♍47'32	8°40'15
min. Earth dist.	2907 Sep 17 05:01	23°♍26'24	0.28632 AU
morning rise	2907 Sep 19 21:19	21°♍47'30	
direct	2907 Oct 08 03:51	15°♍33'23	
greatest brilliancy	2907 Oct 19 02:20	17°♍45'18	-4.8m
	2907 Nov 07 20:33	0°♎	
asc. node	2907 Nov 12 17:01	4°♎03'39	
morning max el	2907 Nov 27 09:06	17°♎54'22	46°36'08
	2907 Dec 08 23:06	0°♏	
	2908 Jan 04 12:51	0°♐	
	2908 Jan 29 17:42	0°♑	
	2908 Feb 23 09:17	0°♒	
desc. node	2908 Mar 03 06:44	10°♒54'21	
	2908 Mar 18 19:24	0°♓	
	2908 Apr 12 03:43	0°♈	
	2908 May 06 12:14	0°♉	
	2908 May 30 21:44	0°♊	
morning set	2908 Jun 01 01:33	1°♊25'26	
asc. node	2908 Jun 24 10:00	0°♋06'35	
	2908 Jun 24 07:51	0°♋	
superior conj	2908 Jul 07 23:22	16°♋45'56	0°31'35
minimum elong	2908 Jul 07 17:16	16°♋27'11	0°31'18
max. Earth dist.	2908 Jul 07 10:35	16°♋06'39	1.73556 AU
	2908 Jul 18 17:43	0°♌	
	2908 Aug 12 02:47	0°♍	
evening rise	2908 Aug 12 21:24	0°♍57'17	
	2908 Sep 05 11:28	0°♎	
	2908 Sep 29 20:47	0°♏	
desc. node	2908 Oct 13 23:36	17°♏19'36	
	2908 Oct 24 07:48	0°♐	
	2908 Nov 17 21:31	0°♑	
	2908 Dec 12 16:19	0°♒	
	2909 Jan 06 23:09	0°♓	
	2909 Feb 02 13:14	0°♈	
asc. node	2909 Feb 04 02:33	1°♈40'13	
evening max el	2909 Feb 13 15:48	11°♈38'23	46°56'01
	2909 Mar 05 12:38	0°♉	
greatest brilliancy	2909 Mar 25 15:57	12°♉31'05	-4.8m
retrograde	2909 Apr 05 03:31	14°♉34'39	
evening set	2909 Apr 21 22:08	9°♉06'23	
inferior conj	2909 Apr 26 07:44	6°♉23'09	6°31'44
minimum elong	2909 Apr 26 17:45	6°♉07'22	6°29'42
min. Earth dist.	2909 Apr 26 05:25	6°♉26'48	0.28259 AU
morning rise	2909 May 01 13:41	3°♉11'00	
	2909 May 08 05:39	30°℞♈	
direct	2909 May 17 11:12	28°♈17'59	
desc. node	2909 May 26 16:13	29°♈51'21	
greatest brilliancy	2909 May 27 04:17	0°♉01'24	-4.8m
	2909 May 27 02:39	0°♉	
morning max el	2909 Jul 05 07:32	28°♉18'12	45°46'21
	2909 Jul 07 01:52	0°♊	
	2909 Aug 04 22:49	0°♋	
	2909 Aug 31 13:23	0°♌	
asc. node	2909 Sep 16 19:28	19°♌01'32	
	2909 Sep 26 00:44	0°♍	
	2909 Oct 20 18:45	0°♎	
	2909 Nov 14 01:39	0°♏	
	2909 Dec 08 02:12	0°♐	
greatest brilliancy	2909 Dec 12 14:10	5°♐38'24	-3.9m
	2909 Dec 31 23:42	0°♑	
morning set	2910 Jan 01 02:10	0°♑07'44	
desc. node	2910 Jan 06 09:07	6°♑46'54	
	2910 Jan 24 20:08	0°♒	
superior conj	2910 Feb 11 18:12	22°♒32'04	-1°13'20
minimum elong	2910 Feb 11 07:19	21°♒57'55	1°13'02
max. Earth dist.	2910 Feb 14 05:11	25°♒37'19	1.71256 AU
	2910 Feb 17 16:51	0°♓	
	2910 Mar 13 15:21	0°♈	
evening rise	2910 Mar 24 11:15	13°♈30'56	
	2910 Apr 06 17:19	0°♉	
asc. node	2910 Apr 29 12:22	28°♉09'31	
	2910 May 01 00:19	0°♊	
	2910 May 25 13:36	0°♋	
	2910 Jun 19 10:48	0°♌	
	2910 Jul 14 19:17	0°♍	
	2910 Aug 09 22:30	0°♎	
desc. node	2910 Aug 19 01:44	10°♎09'22	
	2910 Sep 06 14:46	0°♏	
evening max el	2910 Sep 19 00:32	12°♏25'22	46°10'45
	2910 Oct 09 01:07	0°♐	
greatest brilliancy	2910 Oct 29 05:55	11°♐37'22	-4.8m
retrograde	2910 Nov 07 10:47	13°♐11'58	
evening set	2910 Nov 22 10:44	8°♐50'48	
inferior conj	2910 Nov 28 03:18	5°♐31'21	-3°02'53
minimum elong	2910 Nov 28 09:58	5°♐21'12	3°00'52
min. Earth dist.	2910 Nov 28 18:20	5°♐08'30	0.26812 AU
morning rise	2910 Dec 04 08:29	1°♐53'19	
	2910 Dec 08 06:42	30°℞♏	
asc. node	2910 Dec 10 04:56	29°♏15'28	
direct	2910 Dec 18 18:01	27°♏45'03	
greatest brilliancy	2910 Dec 29 14:01	29°♏57'49	-4.9m
	2910 Dec 29 16:16	0°♐	
	2911 Feb 06 09:57	0°♑	
morning max el	2911 Feb 07 10:13	1°♑01'15	46°57'56
	2911 Mar 06 06:28	0°♒	
desc. node	2911 Mar 31 18:42	29°♒27'10	
	2911 Apr 01 05:53	0°♓	
	2911 Apr 26 12:28	0°♈	
	2911 May 21 11:48	0°♉	
	2911 Jun 15 07:32	0°♊	
	2911 Jul 10 00:23	0°♋	
asc. node	2911 Jul 22 21:45	15°♋43'37	
	2911 Aug 03 13:39	0°♌	
morning set	2911 Aug 08 23:59	6°♌39'46	
	2911 Aug 27 22:50	0°♍	
max. Earth dist.	2911 Sep 11 09:50	17°♍52'48	1.72848 AU
superior conj	2911 Sep 14 10:51	21°♍39'01	1°24'49
minimum elong	2911 Sep 14 09:40	21°♍35'22	1°24'49
	2911 Sep 21 04:24	0°♎	
	2911 Oct 15 07:39	0°♏	
evening rise	2911 Oct 21 18:50	8°♏03'00	
	2911 Nov 08 09:51	0°♐	

desc. node	2911 Nov 11 11:35	3°♐49'40	
	2911 Dec 02 11:48	0°♑	
	2911 Dec 26 14:19	0°♒	
	2912 Jan 19 19:24	0°♓	
	2912 Feb 13 07:21	0°♈	
asc. node	2912 Mar 03 14:27	23°♈08'47	
	2912 Mar 09 10:02	0°♉	
	2912 Apr 04 18:55	0°♊	
evening max el	2912 Apr 25 18:26	21°♊52'58	45°52'37
	2912 May 04 08:47	0°♋	
greatest brilliancy	2912 Jun 02 19:58	20°♋21'56	-4.7m
retrograde	2912 Jun 13 22:29	22°♋36'07	
desc. node	2912 Jun 23 04:05	20°♋53'33	
evening set	2912 Jun 29 00:57	18°♋09'59	
inferior conj	2912 Jul 05 09:50	14°♋20'46	-2°50'44
minimum elong	2912 Jul 05 03:49	14°♋30'10	2°49'03
min. Earth dist.	2912 Jul 05 04:41	14°♋28'49	0.28950 AU
morning rise	2912 Jul 11 06:52	10°♋48'08	
direct	2912 Jul 26 23:52	6°♋04'25	
greatest brilliancy	2912 Aug 06 06:53	7°♋58'48	-4.7m
	2912 Sep 07 11:03	0°♌	
morning max el	2912 Sep 13 22:28	6°♌03'52	45°52'35
	2912 Oct 07 02:15	0°♍	
asc. node	2912 Oct 14 07:22	7°♍57'58	
	2912 Nov 02 12:39	0°♎	
	2912 Nov 27 15:16	0°♏	
	2912 Dec 22 02:13	0°♐	
	2913 Jan 15 05:37	0°♑	
desc. node	2913 Feb 02 20:54	23°♑16'42	
	2913 Feb 08 05:54	0°♒	
	2913 Mar 04 05:33	0°♓	
morning set	2913 Mar 19 02:54	18°♓36'03	
	2913 Mar 28 06:11	0°♈	
	2913 Apr 21 09:02	0°♉	
superior conj	2913 Apr 27 09:14	7°♉27'05	-1°03'12
minimum elong	2913 Apr 27 19:33	7°♉59'03	1°02'51
max. Earth dist.	2913 Apr 30 18:18	11°♉38'12	1.72682 AU
	2913 May 15 14:49	0°♊	
asc. node	2913 May 27 00:13	14°♊02'41	
evening rise	2913 Jun 04 10:54	24°♊26'10	
	2913 Jun 08 23:36	0°♋	
	2913 Jul 03 11:11	0°♌	
	2913 Jul 28 01:57	0°♍	
	2913 Aug 21 21:14	0°♎	
desc. node	2913 Sep 15 13:41	29°♎31'09	
	2913 Sep 15 23:25	0°♏	
	2913 Oct 11 12:17	0°♐	
	2913 Nov 06 20:32	0°♑	
evening max el	2913 Dec 01 04:26	25°♑56'49	47°09'59
	2913 Dec 05 06:20	0°♒	
asc. node	2914 Jan 06 16:44	25°♒30'13	
greatest brilliancy	2914 Jan 10 16:07	27°♒13'15	-4.9m
retrograde	2914 Jan 20 22:23	29°♒13'29	
evening set	2914 Feb 06 01:09	24°♒04'19	
min. Earth dist.	2914 Feb 09 17:46	21°♒50'48	0.26933 AU
inferior conj	2914 Feb 10 13:30	21°♒20'21	7°35'06
minimum elong	2914 Feb 10 03:49	21°♒35'17	7°33'27
morning rise	2914 Feb 14 06:50	19°♒05'03	
direct	2914 Mar 03 01:48	13°♒37'30	
greatest brilliancy	2914 Mar 12 02:53	15°♒11'05	-4.9m
	2914 Apr 05 01:27	0°♓	
morning max el	2914 Apr 21 21:52	15°♓25'06	46°25'10
desc. node	2914 Apr 28 06:32	21°♓47'43	
	2914 May 06 03:56	0°♈	
	2914 Jun 02 10:53	0°♉	
	2914 Jun 28 12:41	0°♊	
	2914 Jul 23 23:43	0°♋	
	2914 Aug 18 00:04	0°♌	
asc. node	2914 Aug 19 09:39	1°♌41'33	
	2914 Sep 11 15:11	0°♍	
	2914 Oct 05 22:41	0°♎	
morning set	2914 Oct 17 00:18	13°♎45'30	
	2914 Oct 30 00:48	0°♏	
max. Earth dist.	2914 Nov 22 08:16	29°♏11'21	1.71479 AU
	2914 Nov 22 23:48	0°♐	
superior conj	2914 Nov 24 12:20	1°♐54'34	0°33'47
minimum elong	2914 Nov 24 20:06	2°♐18'55	0°33'25
desc. node	2914 Dec 08 23:24	20°♐03'33	
	2914 Dec 16 21:20	0°♑	
evening rise	2915 Jan 04 06:26	23°♑05'11	
	2915 Jan 09 18:30	0°♒	
	2915 Feb 02 16:31	0°♓	
	2915 Feb 26 17:24	0°♈	
	2915 Mar 23 00:11	0°♉	
asc. node	2915 Apr 01 02:30	11°♉07'12	
	2915 Apr 16 16:48	0°♊	
	2915 May 12 00:50	0°♋	
	2915 Jun 07 11:19	0°♌	
	2915 Jul 06 09:01	0°♍	
evening max el	2915 Jul 06 09:33	0°♍01'16	45°26'32
desc. node	2915 Jul 21 16:00	13°♍36'11	
greatest brilliancy	2915 Aug 14 02:49	27°♍52'47	-4.7m
retrograde	2915 Aug 23 23:07	29°♍37'15	
evening set	2915 Sep 10 23:22	23°♍36'45	
inferior conj	2915 Sep 14 07:42	21°♍33'20	-8°38'44
minimum elong	2915 Sep 14 06:07	21°♍35'48	8°38'42
min. Earth dist.	2915 Sep 14 19:53	21°♍14'21	0.28676 AU
morning rise	2915 Sep 17 12:42	19°♍34'28	
direct	2915 Oct 05 19:15	13°♍19'45	
greatest brilliancy	2915 Oct 16 17:59	15°♍31'07	-4.8m
	2915 Nov 08 06:06	0°♎	
asc. node	2915 Nov 11 19:07	3°♎03'13	
morning max el	2915 Nov 24 22:39	15°♎32'05	46°34'34
	2915 Dec 08 17:36	0°♏	
	2916 Jan 04 03:46	0°♐	
	2916 Jan 29 07:04	0°♑	
	2916 Feb 22 21:47	0°♒	
desc. node	2916 Mar 02 08:54	10°♒23'22	
	2916 Mar 18 07:19	0°♓	
	2916 Apr 11 15:12	0°♈	
	2916 May 05 23:25	0°♉	
morning set	2916 May 29 18:26	29°♉16'08	
	2916 May 30 08:42	0°♊	
asc. node	2916 Jun 23 11:57	29°♊39'12	
	2916 Jun 23 18:43	0°♋	
max. Earth dist.	2916 Jul 05 05:16	14°♋03'21	1.73552 AU
superior conj	2916 Jul 05 17:25	14°♋40'40	0°28'36
minimum elong	2916 Jul 05 11:48	14°♋23'25	0°28'21
	2916 Jul 18 04:33	0°♌	
evening rise	2916 Aug 10 16:00	28°♌53'17	
	2916 Aug 11 13:41	0°♍	
	2916 Sep 04 22:31	0°♎	
	2916 Sep 29 08:09	0°♏	
desc. node	2916 Oct 13 01:44	16°♏50'32	
	2916 Oct 23 19:39	0°♐	
	2916 Nov 17 10:01	0°♑	
	2916 Dec 12 05:47	0°♒	
	2917 Jan 06 14:19	0°♓	
	2917 Feb 02 08:21	0°♈	
asc. node	2917 Feb 03 04:37	0°♈54'01	
evening max el	2917 Feb 11 05:04	9°♈14'22	46°57'52

	2917 Mar 06 01:39	0°♉	
greatest brilliancy	2917 Mar 23 08:28	10°♉15'32	-4.8m
retrograde	2917 Apr 02 18:45	12°♉18'30	
evening set	2917 Apr 19 16:25	6°♉45'50	
inferior conj	2917 Apr 23 22:59	4°♉07'21	6°45'54
minimum elong	2917 Apr 24 08:56	3°♉51'41	6°43'58
min. Earth dist.	2917 Apr 23 20:39	4°♉11'03	0.28228 AU
morning rise	2917 Apr 29 01:42	0°♉59'50	
	2917 Apr 30 20:55	30℞♈	
direct	2917 May 15 01:16	26°♈02'33	
greatest brilliancy	2917 May 24 18:54	27°♈46'14	-4.8m
desc. node	2917 May 25 18:12	28°♈06'54	
	2917 May 30 03:18	0°♉	
morning max el	2917 Jul 02 22:20	26°♉04'15	45°47'05
	2917 Jul 06 23:35	0°♊	
	2917 Aug 04 14:20	0°♋	
	2917 Aug 31 02:36	0°♌	
asc. node	2917 Sep 15 21:34	18°♌30'58	
	2917 Sep 25 12:51	0°♍	
	2917 Oct 20 06:17	0°♎	
	2917 Nov 13 12:53	0°♏	
	2917 Dec 07 13:19	0°♐	
greatest brilliancy	2917 Dec 14 22:57	9°♐16'56	-3.9m
morning set	2917 Dec 29 12:48	27°♐35'29	
	2917 Dec 31 10:46	0°♑	
desc. node	2918 Jan 05 11:07	6°♑18'24	
	2918 Jan 24 07:10	0°♒	
superior conj	2918 Feb 09 04:19	19°♒58'28	-1°11'07
minimum elong	2918 Feb 08 17:00	19°♒22'52	1°10'48
max. Earth dist.	2918 Feb 11 08:19	22°♒41'50	1.71231 AU
	2918 Feb 17 03:51	0°♓	
	2918 Mar 13 02:20	0°♈	
evening rise	2918 Mar 21 22:46	11°♈02'59	
	2918 Apr 06 04:20	0°♉	
asc. node	2918 Apr 28 14:23	27°♉41'32	
	2918 Apr 30 11:26	0°♊	
	2918 May 25 00:58	0°♋	
	2918 Jun 18 22:42	0°♌	
	2918 Jul 14 08:12	0°♍	
	2918 Aug 09 13:24	0°♎	
desc. node	2918 Aug 18 03:51	9°♎31'23	
	2918 Sep 06 10:22	0°♏	
evening max el	2918 Sep 16 14:10	10°♏06'08	46°08'37
	2918 Oct 09 18:48	0°♐	
greatest brilliancy	2918 Oct 26 18:22	9°♐13'03	-4.8m
retrograde	2918 Nov 04 23:49	10°♐47'48	
evening set	2918 Nov 20 01:49	6°♐22'53	
inferior conj	2918 Nov 25 16:03	3°♐06'30	-3°25'00
minimum elong	2918 Nov 25 23:25	2°♐55'19	3°22'48
min. Earth dist.	2918 Nov 26 07:59	2°♐42'19	0.26863 AU
	2918 Nov 30 22:20	30℞♏	
morning rise	2918 Dec 01 20:22	29°♏29'56	
asc. node	2918 Dec 09 06:49	26°♏20'57	
direct	2918 Dec 16 07:47	25°♏19'19	
greatest brilliancy	2918 Dec 27 04:15	27°♏33'04	-4.9m
	2919 Jan 01 10:19	0°♐	
morning max el	2919 Feb 05 01:09	28°♐40'08	46°58'07
	2919 Feb 06 08:32	0°♑	
	2919 Mar 05 22:44	0°♒	
desc. node	2919 Mar 30 20:48	28°♒52'27	
	2919 Mar 31 19:44	0°♓	
	2919 Apr 26 01:03	0°♈	
	2919 May 20 23:36	0°♉	
	2919 Jun 14 18:48	0°♊	
	2919 Jul 09 11:16	0°♋	
asc. node	2919 Jul 21 23:50	15°♋17'05	
	2919 Aug 03 00:20	0°♌	
morning set	2919 Aug 06 17:42	4°♌34'03	
	2919 Aug 27 09:27	0°♍	
max. Earth dist.	2919 Sep 09 05:05	15°♍50'48	1.72891 AU
superior conj	2919 Sep 12 04:10	19°♍30'56	1°24'33
minimum elong	2919 Sep 12 02:17	19°♍25'06	1°24'32
	2919 Sep 20 15:05	0°♎	
	2919 Oct 14 18:27	0°♏	
evening rise	2919 Oct 19 09:38	5°♏45'56	
	2919 Nov 07 20:50	0°♐	
desc. node	2919 Nov 10 13:33	3°♐21'30	
	2919 Dec 01 22:59	0°♑	
	2919 Dec 26 01:47	0°♒	
	2920 Jan 19 07:16	0°♓	
	2920 Feb 12 19:53	0°♈	
asc. node	2920 Mar 02 16:33	22°♈35'26	
	2920 Mar 08 23:48	0°♉	
	2920 Apr 04 11:31	0°♊	
evening max el	2920 Apr 23 11:09	19°♊43'24	45°54'32
	2920 May 04 11:19	0°♋	
greatest brilliancy	2920 May 31 12:20	18°♋13'11	-4.7m
retrograde	2920 Jun 11 15:27	20°♋27'26	
desc. node	2920 Jun 22 06:05	18°♋12'25	
evening set	2920 Jun 26 16:49	16°♋02'23	
inferior conj	2920 Jul 03 02:11	12°♋12'04	-2°31'49
minimum elong	2920 Jul 02 20:47	12°♋20'31	2°30'18
min. Earth dist.	2920 Jul 02 20:45	12°♋20'35	0.28932 AU
morning rise	2920 Jul 09 01:03	8°♋37'00	
direct	2920 Jul 24 16:35	3°♋56'13	
greatest brilliancy	2920 Aug 03 21:52	5°♋49'19	-4.7m
	2920 Sep 07 11:23	0°♌	
morning max el	2920 Sep 11 14:27	3°♌54'13	45°51'27
	2920 Oct 06 18:16	0°♍	
asc. node	2920 Oct 13 09:24	7°♍21'25	
	2920 Nov 02 02:06	0°♎	
	2920 Nov 27 03:36	0°♏	
	2920 Dec 21 13:56	0°♐	
	2921 Jan 14 16:58	0°♑	
desc. node	2921 Feb 01 23:03	22°♑48'35	
	2921 Feb 07 17:00	0°♒	
	2921 Mar 03 16:27	0°♓	
morning set	2921 Mar 16 15:01	16°♓10'21	
	2921 Mar 27 16:56	0°♈	
	2921 Apr 20 19:41	0°♉	
superior conj	2921 Apr 24 23:56	5°♉10'53	-1°05'33
minimum elong	2921 Apr 25 10:13	5°♉42'48	1°05'14
max. Earth dist.	2921 Apr 28 13:24	9°♉35'45	1.72633 AU
	2921 May 15 01:25	0°♊	
asc. node	2921 May 26 02:10	13°♊35'59	
evening rise	2921 Jun 02 03:57	22°♊18'20	
	2921 Jun 08 10:14	0°♋	
	2921 Jul 02 21:59	0°♌	
	2921 Jul 27 13:03	0°♍	
	2921 Aug 21 08:53	0°♎	
desc. node	2921 Sep 14 15:48	29°♎00'16	
	2921 Sep 15 11:58	0°♏	
	2921 Oct 11 02:21	0°♐	
	2921 Nov 06 13:33	0°♑	
evening max el	2921 Nov 28 18:51	23°♑34'35	47°08'42
	2921 Dec 05 07:34	0°♒	
asc. node	2922 Jan 05 18:52	23°♒46'46	
greatest brilliancy	2922 Jan 08 06:04	24°♒47'17	-4.9m
retrograde	2922 Jan 18 11:29	26°♒46'21	
evening set	2922 Feb 03 10:11	21°♒44'05	
min. Earth dist.	2922 Feb 07 06:56	19°♒24'30	0.26881 AU

inferior conj	2922 Feb 08 02:22	18°♒54'28	7°22'09
minimum elong	2922 Feb 07 16:20	19°♒09'58	7°20'19
morning rise	2922 Feb 11 22:51	16°♒34'28	
direct	2922 Feb 28 14:16	11°♒12'36	
greatest brilliancy	2922 Mar 09 15:53	12°♒46'16	-4.9m
	2922 Apr 05 10:02	0°♓	
morning max el	2922 Apr 19 10:17	13°♓01'29	46°26'47
desc. node	2922 Apr 27 08:30	21°♓00'51	
	2922 May 05 22:08	0°♈	
	2922 Jun 02 01:14	0°♉	
	2922 Jun 28 01:18	0°♊	
	2922 Jul 23 11:23	0°♋	
	2922 Aug 17 11:11	0°♌	
asc. node	2922 Aug 18 11:44	1°♌14'15	
	2922 Sep 11 02:01	0°♍	
	2922 Oct 05 09:23	0°♎	
morning set	2922 Oct 14 15:43	11°♎30'55	
	2922 Oct 29 11:27	0°♏	
max. Earth dist.	2922 Nov 19 16:36	26°♏33'26	1.71522 AU
superior conj	2922 Nov 22 00:51	29°♏29'41	0°37'11
minimum elong	2922 Nov 22 09:11	29°♏55'48	0°36'48
	2922 Nov 22 10:31	0°♐	
desc. node	2922 Dec 08 01:22	19°♐35'50	
	2922 Dec 16 08:10	0°♑	
evening rise	2923 Jan 01 16:56	20°♑33'09	
	2923 Jan 09 05:27	0°♒	
	2923 Feb 02 03:34	0°♓	
	2923 Feb 26 04:35	0°♈	
	2923 Mar 22 11:37	0°♉	
asc. node	2923 Mar 31 04:29	10°♉37'57	
	2923 Apr 16 04:46	0°♊	
	2923 May 11 13:54	0°♋	
	2923 Jun 07 02:47	0°♌	
evening max el	2923 Jul 03 23:45	27°♌47'19	45°26'11
	2923 Jul 06 07:41	0°♍	
desc. node	2923 Jul 20 18:07	12°♍34'56	
greatest brilliancy	2923 Aug 11 16:57	25°♍40'47	-4.7m
retrograde	2923 Aug 21 13:55	27°♍26'19	
evening set	2923 Sep 08 13:02	21°♍27'51	
inferior conj	2923 Sep 11 23:19	19°♍21'39	-8°36'18
minimum elong	2923 Sep 11 20:56	19°♍25'22	8°36'14
min. Earth dist.	2923 Sep 12 10:52	19°♍03'39	0.28720 AU
morning rise	2923 Sep 15 04:38	17°♍22'17	
direct	2923 Oct 03 10:38	11°♍07'20	
greatest brilliancy	2923 Oct 14 10:05	13°♍18'50	-4.8m
	2923 Nov 08 12:35	0°♎	
asc. node	2923 Nov 10 21:02	2°♎04'55	
morning max el	2923 Nov 22 12:56	13°♎12'50	46°33'04
	2923 Dec 08 11:17	0°♏	
	2924 Jan 03 18:09	0°♐	
	2924 Jan 28 20:00	0°♑	
	2924 Feb 22 09:55	0°♒	
desc. node	2924 Mar 01 10:52	9°♒52'46	
	2924 Mar 17 18:54	0°♓	
	2924 Apr 11 02:23	0°♈	
	2924 May 05 10:17	0°♉	
morning set	2924 May 27 11:27	27°♉08'08	
	2924 May 29 19:21	0°♊	
asc. node	2924 Jun 22 14:03	29°♊13'18	
	2924 Jun 23 05:15	0°♋	
superior conj	2924 Jul 03 11:37	12°♋36'52	0°25'37
minimum elong	2924 Jul 03 06:31	12°♋21'12	0°25'22
max. Earth dist.	2924 Jul 03 01:25	12°♋05'31	1.73550 AU
	2924 Jul 17 15:04	0°♌	
evening rise	2924 Aug 08 10:48	26°♌50'50	
	2924 Aug 11 00:18	0°♍	
	2924 Sep 04 09:21	0°♎	
	2924 Sep 28 19:20	0°♏	
desc. node	2924 Oct 12 03:39	16°♏21'24	
	2924 Oct 23 07:19	0°♐	
	2924 Nov 16 22:22	0°♑	
	2924 Dec 11 19:07	0°♒	
	2925 Jan 06 05:28	0°♓	
asc. node	2925 Feb 02 06:42	0°♈07'41	
	2925 Feb 02 03:48	0°♈	
evening max el	2925 Feb 08 18:55	6°♈52'19	46°59'39
	2925 Mar 06 18:54	0°♉	
greatest brilliancy	2925 Mar 21 00:23	7°♉59'21	-4.9m
retrograde	2925 Mar 31 10:17	10°♉02'28	
evening set	2925 Apr 17 10:34	4°♉25'12	
inferior conj	2925 Apr 21 14:07	1°♉51'29	6°59'26
minimum elong	2925 Apr 21 23:55	1°♉36'05	6°57'38
min. Earth dist.	2925 Apr 21 11:29	1°♉55'38	0.28195 AU
	2925 Apr 24 13:46	30°℞♈	
morning rise	2925 Apr 26 13:30	28°♈49'03	
direct	2925 May 12 15:29	23°♈47'02	
greatest brilliancy	2925 May 22 09:04	25°♈30'54	-4.8m
desc. node	2925 May 24 20:09	26°♈26'33	
	2925 May 31 22:12	0°♉	
morning max el	2925 Jun 30 13:57	23°♉52'49	45°48'00
	2925 Jul 06 20:17	0°♊	
	2925 Aug 04 05:23	0°♋	
	2925 Aug 30 15:30	0°♌	
asc. node	2925 Sep 14 23:33	18°♌00'40	
	2925 Sep 25 00:44	0°♍	
	2925 Oct 19 17:40	0°♎	
	2925 Nov 13 00:03	0°♏	
	2925 Dec 07 00:22	0°♐	
greatest brilliancy	2925 Dec 16 03:59	11°♐28'47	-3.9m
morning set	2925 Dec 26 23:31	25°♐03'48	
	2925 Dec 30 21:46	0°♑	
desc. node	2926 Jan 04 13:16	5°♑50'36	
	2926 Jan 23 18:07	0°♒	
superior conj	2926 Feb 06 14:16	17°♒24'28	-1°08'46
minimum elong	2926 Feb 06 02:36	16°♒47'48	1°08'25
max. Earth dist.	2926 Feb 08 14:41	19°♒56'38	1.71210 AU
	2926 Feb 16 14:47	0°♓	
	2926 Mar 12 13:17	0°♈	
evening rise	2926 Mar 19 10:14	8°♈34'56	
	2926 Apr 05 15:21	0°♉	
asc. node	2926 Apr 27 16:21	27°♉13'28	
	2926 Apr 29 22:34	0°♊	
	2926 May 24 12:22	0°♋	
	2926 Jun 18 10:37	0°♌	
	2926 Jul 13 21:09	0°♍	
	2926 Aug 09 04:26	0°♎	
desc. node	2926 Aug 17 05:52	8°♎53'01	
	2926 Sep 06 06:33	0°♏	
evening max el	2926 Sep 14 04:36	7°♏49'08	46°06'21
	2926 Oct 10 18:44	0°♐	
greatest brilliancy	2926 Oct 24 06:38	6°♐48'36	-4.8m
retrograde	2926 Nov 02 12:42	8°♐23'15	
evening set	2926 Nov 17 17:03	3°♐54'41	
inferior conj	2926 Nov 23 04:47	0°♐41'20	-3°46'36
minimum elong	2926 Nov 23 12:47	0°♐29'11	3°44'17
min. Earth dist.	2926 Nov 23 21:27	0°♐16'00	0.26918 AU
	2926 Nov 24 07:59	30°℞♏	
morning rise	2926 Nov 29 07:56	27°♏06'21	
asc. node	2926 Dec 08 08:59	23°♏31'26	
direct	2926 Dec 13 21:50	22°♏53'22	
greatest brilliancy	2926 Dec 24 18:09	25°♏07'20	-4.9m

	2927 Jan 03 03:18	0°♐	
morning max el	2927 Feb 02 15:50	26°♐17'48	46°58'11
	2927 Feb 06 06:26	0°♑	
	2927 Mar 05 14:53	0°♒	
desc. node	2927 Mar 29 22:47	28°♒17'16	
	2927 Mar 31 09:35	0°♓	
	2927 Apr 25 13:42	0°♈	
	2927 May 20 11:30	0°♉	
	2927 Jun 14 06:11	0°♊	
	2927 Jul 08 22:18	0°♋	
asc. node	2927 Jul 21 01:56	14°♋50'06	
	2927 Aug 02 11:09	0°♌	
morning set	2927 Aug 04 11:37	2°♌28'38	
	2927 Aug 26 20:12	0°♍	
max. Earth dist.	2927 Sep 06 23:29	13°♍45'56	1.72930 AU
superior conj	2927 Sep 09 21:48	17°♍23'34	1°24'08
minimum elong	2927 Sep 09 19:15	17°♍15'40	1°24'08
	2927 Sep 20 01:52	0°♎	
	2927 Oct 14 05:24	0°♏	
evening rise	2927 Oct 17 00:43	3°♏29'25	
	2927 Nov 07 07:59	0°♐	
desc. node	2927 Nov 09 15:37	2°♐53'08	
	2927 Dec 01 10:24	0°♑	
	2927 Dec 25 13:31	0°♒	
	2928 Jan 18 19:27	0°♓	
	2928 Feb 12 08:46	0°♈	
asc. node	2928 Mar 01 18:31	22°♈00'41	
	2928 Mar 08 13:59	0°♉	
	2928 Apr 04 04:45	0°♊	
evening max el	2928 Apr 21 03:25	17°♊31'43	45°56'28
	2928 May 04 15:58	0°♋	
greatest brilliancy	2928 May 29 05:13	16°♋03'59	-4.7m
retrograde	2928 Jun 09 07:50	18°♋17'29	
desc. node	2928 Jun 21 08:16	15°♋25'40	
evening set	2928 Jun 24 08:46	13°♋53'28	
inferior conj	2928 Jun 30 18:28	10°♋02'19	-2°12'42
minimum elong	2928 Jun 30 13:42	10°♋09'47	2°11'20
min. Earth dist.	2928 Jun 30 13:07	10°♋10'43	0.28911 AU
morning rise	2928 Jul 06 18:57	6°♋24'42	
direct	2928 Jul 22 08:57	1°♋46'56	
greatest brilliancy	2928 Aug 01 13:01	3°♋38'50	-4.7m
	2928 Sep 07 10:57	0°♌	
morning max el	2928 Sep 09 05:36	1°♌41'45	45°50'31
	2928 Oct 06 10:15	0°♍	
asc. node	2928 Oct 12 11:22	6°♍44'20	
	2928 Nov 01 15:40	0°♎	
	2928 Nov 26 16:05	0°♏	
	2928 Dec 21 01:52	0°♐	
	2929 Jan 14 04:36	0°♑	
desc. node	2929 Feb 01 01:05	22°♑18'58	
	2929 Feb 07 04:26	0°♒	
	2929 Mar 03 03:44	0°♓	
morning set	2929 Mar 14 02:29	13°♓41'20	
	2929 Mar 27 04:04	0°♈	
	2929 Apr 20 06:42	0°♉	
superior conj	2929 Apr 22 14:04	2°♉51'48	-1°07'50
minimum elong	2929 Apr 23 00:16	3°♉23'26	1°07'32
max. Earth dist.	2929 Apr 26 07:53	7°♉30'13	1.72579 AU
	2929 May 14 12:22	0°♊	
asc. node	2929 May 25 04:17	13°♊08'39	
evening rise	2929 May 30 20:31	20°♊07'53	
	2929 Jun 07 21:14	0°♋	
	2929 Jul 02 09:10	0°♌	
	2929 Jul 27 00:35	0°♍	
	2929 Aug 20 20:58	0°♎	
desc. node	2929 Sep 13 17:44	28°♎27'47	
	2929 Sep 15 00:56	0°♏	
	2929 Oct 10 16:54	0°♐	
	2929 Nov 06 07:15	0°♑	
evening max el	2929 Nov 26 08:06	21°♑08'38	47°07'17
	2929 Dec 05 10:36	0°♒	
asc. node	2930 Jan 04 20:53	21°♒57'44	
greatest brilliancy	2930 Jan 05 20:12	22°♒20'11	-4.9m
retrograde	2930 Jan 15 23:58	24°♒17'45	
evening set	2930 Jan 31 19:06	19°♒22'00	
min. Earth dist.	2930 Feb 04 20:24	16°♒56'00	0.26838 AU
inferior conj	2930 Feb 05 15:07	16°♒27'03	7°08'15
minimum elong	2930 Feb 05 04:48	16°♒43'00	7°06'15
morning rise	2930 Feb 09 14:50	14°♒02'11	
direct	2930 Feb 26 02:14	8°♒45'42	
greatest brilliancy	2930 Mar 07 05:38	10°♒20'26	-4.9m
	2930 Apr 05 16:54	0°♓	
morning max el	2930 Apr 16 22:23	10°♓35'14	46°28'23
desc. node	2930 Apr 26 10:32	20°♓13'14	
	2930 May 05 16:28	0°♈	
	2930 Jun 01 15:56	0°♉	
	2930 Jun 27 14:17	0°♊	
	2930 Jul 22 23:26	0°♋	
	2930 Aug 16 22:43	0°♌	
asc. node	2930 Aug 17 13:39	0°♌45'13	
	2930 Sep 10 13:15	0°♍	
	2930 Oct 04 20:28	0°♎	
morning set	2930 Oct 12 07:20	9°♎15'39	
	2930 Oct 28 22:30	0°♏	
max. Earth dist.	2930 Nov 17 03:32	24°♏02'33	1.71561 AU
superior conj	2930 Nov 19 13:47	27°♏05'04	0°40'29
minimum elong	2930 Nov 19 22:37	27°♏32'46	0°40'06
	2930 Nov 21 21:36	0°♐	
desc. node	2930 Dec 07 03:32	19°♐07'39	
	2930 Dec 15 19:20	0°♑	
evening rise	2930 Dec 30 03:53	18°♑01'41	
	2931 Jan 08 16:43	0°♒	
	2931 Feb 01 14:57	0°♓	
	2931 Feb 25 16:09	0°♈	
	2931 Mar 21 23:31	0°♉	
asc. node	2931 Mar 30 06:27	10°♉07'14	
	2931 Apr 15 17:17	0°♊	
	2931 May 11 03:35	0°♋	
	2931 Jun 06 19:04	0°♌	
evening max el	2931 Jul 01 14:01	25°♌32'05	45°26'05
	2931 Jul 06 08:03	0°♍	
desc. node	2931 Jul 19 20:06	11°♍30'17	
greatest brilliancy	2931 Aug 09 06:19	23°♍26'29	-4.7m
retrograde	2931 Aug 19 05:07	25°♍13'53	
evening set	2931 Sep 06 02:16	19°♍17'36	
inferior conj	2931 Sep 09 14:46	17°♍08'15	-8°33'10
minimum elong	2931 Sep 09 11:36	17°♍13'11	8°33'02
min. Earth dist.	2931 Sep 10 01:28	16°♍51'36	0.28762 AU
morning rise	2931 Sep 12 20:43	15°♍08'03	
direct	2931 Oct 01 02:09	8°♍53'09	
greatest brilliancy	2931 Oct 12 01:56	11°♍04'54	-4.8m
	2931 Nov 08 17:36	0°♎	
asc. node	2931 Nov 09 23:11	1°♎07'01	
morning max el	2931 Nov 20 04:10	10°♎54'58	46°31'45
	2931 Dec 08 04:59	0°♏	
	2932 Jan 03 08:43	0°♐	
	2932 Jan 28 09:09	0°♑	
	2932 Feb 21 22:17	0°♒	
desc. node	2932 Feb 29 12:52	9°♒21'32	
	2932 Mar 17 06:44	0°♓	
	2932 Apr 10 13:51	0°♈	

	2932 May 04	21:30	0°♉	
morning set	2932 May 25	04:07	24°♉57'44	
	2932 May 29	06:24	0°♊	
asc. node	2932 Jun 21	16:07	28°♊46'02	
	2932 Jun 22	16:11	0°♋	
superior conj	2932 Jul 01	05:23	10°♋30'29	0°22'33
minimum elong	2932 Jul 01	00:50	10°♋16'30	0°22'19
max. Earth dist.	2932 Jun 30	22:25	10°♋09'04	1.73546 AU
	2932 Jul 17	01:58	0°♌	
evening rise	2932 Aug 06	05:21	24°♌46'30	
	2932 Aug 10	11:17	0°♍	
	2932 Sep 03	20:34	0°♎	
	2932 Sep 28	06:56	0°♏	
desc. node	2932 Oct 11	05:44	15°♏51'34	
	2932 Oct 22	19:25	0°♐	
	2932 Nov 16	11:07	0°♑	
	2932 Dec 11	08:53	0°♒	
	2933 Jan 05	21:04	0°♓	
asc. node	2933 Feb 01	08:40	29°♓19'54	
	2933 Feb 02	00:00	0°♈	
evening max el	2933 Feb 06	09:50	4°♈32'37	47°01'30
	2933 Mar 07	18:25	0°♉	
greatest brilliancy	2933 Mar 18	15:43	5°♉42'19	-4.9m
retrograde	2933 Mar 29	02:22	7°♉46'13	
evening set	2933 Apr 15	04:50	2°♉04'18	
	2933 Apr 18	13:35	30°℞♈	
inferior conj	2933 Apr 19	05:22	29°♈35'14	7°12'20
minimum elong	2933 Apr 19	14:57	29°♈20'11	7°10'40
min. Earth dist.	2933 Apr 19	02:00	29°♈40'31	0.28166 AU
morning rise	2933 Apr 24	01:20	26°♈38'06	
direct	2933 May 10	06:21	21°♈31'15	
greatest brilliancy	2933 May 19	22:51	23°♈14'41	-4.8m
desc. node	2933 May 23	22:22	24°♈49'38	
	2933 Jun 02	03:54	0°♉	
morning max el	2933 Jun 28	06:25	21°♉42'39	45°48'42
	2933 Jul 06	16:37	0°♊	
	2933 Aug 03	20:33	0°♋	
	2933 Aug 30	04:38	0°♌	
asc. node	2933 Sep 14	01:36	17°♌29'47	
	2933 Sep 24	12:52	0°♍	
	2933 Oct 19	05:17	0°♎	
	2933 Nov 12	11:26	0°♏	
	2933 Dec 06	11:38	0°♐	
greatest brilliancy	2933 Dec 16	12:35	12°♐35'53	-3.9m
morning set	2933 Dec 24	10:22	22°♐31'52	
	2933 Dec 30	08:58	0°♑	
desc. node	2934 Jan 03	15:14	5°♑21'36	
	2934 Jan 23	05:15	0°♒	
superior conj	2934 Feb 04	00:19	14°♒50'12	-1°06'16
minimum elong	2934 Feb 03	12:25	14°♒12'46	1°05'53
max. Earth dist.	2934 Feb 05	23:27	17°♒18'22	1.71183 AU
	2934 Feb 16	01:52	0°♓	
	2934 Mar 12	00:21	0°♈	
evening rise	2934 Mar 16	21:55	6°♈07'13	
	2934 Apr 05	02:26	0°♉	
asc. node	2934 Apr 26	18:29	26°♉45'40	
	2934 Apr 29	09:46	0°♊	
	2934 May 23	23:52	0°♋	
	2934 Jun 17	22:42	0°♌	
	2934 Jul 13	10:22	0°♍	
	2934 Aug 08	19:53	0°♎	
desc. node	2934 Aug 16	07:52	8°♎13'37	
	2934 Sep 06	03:38	0°♏	
evening max el	2934 Sep 11	19:15	5°♏32'12	46°04'05
	2934 Oct 12	04:23	0°♐	
greatest brilliancy	2934 Oct 21	19:13	4°♐24'25	-4.8m
retrograde	2934 Oct 31	01:07	5°♐58'23	
evening set	2934 Nov 15	08:25	1°♐26'18	
	2934 Nov 17	20:42	30°℞♏	
inferior conj	2934 Nov 20	17:32	28°♏16'05	-4°07'39
minimum elong	2934 Nov 21	02:05	28°♏03'03	4°05'14
min. Earth dist.	2934 Nov 21	11:00	27°♏49'28	0.26974 AU
morning rise	2934 Nov 26	19:13	24°♏42'44	
asc. node	2934 Dec 07	11:02	20°♏47'25	
direct	2934 Dec 11	11:45	20°♏27'22	
greatest brilliancy	2934 Dec 22	08:07	22°♏41'20	-4.9m
	2935 Jan 04	07:58	0°♐	
morning max el	2935 Jan 31	05:47	23°♐53'19	46°58'15
	2935 Feb 06	03:40	0°♑	
	2935 Mar 05	06:50	0°♒	
desc. node	2935 Mar 29	00:50	27°♒42'25	
	2935 Mar 30	23:20	0°♓	
	2935 Apr 25	02:14	0°♈	
	2935 May 19	23:16	0°♉	
	2935 Jun 13	17:27	0°♊	
	2935 Jul 08	09:15	0°♋	
asc. node	2935 Jul 20	03:51	14°♋22'43	
	2935 Aug 01	21:57	0°♌	
morning set	2935 Aug 02	05:38	0°♌23'34	
	2935 Aug 26	06:57	0°♍	
max. Earth dist.	2935 Sep 04	15:47	11°♍34'37	1.72973 AU
superior conj	2935 Sep 07	15:29	15°♍16'25	1°23'38
minimum elong	2935 Sep 07	12:18	15°♍06'31	1°23'36
	2935 Sep 19	12:41	0°♎	
	2935 Oct 13	16:20	0°♏	
evening rise	2935 Oct 14	15:47	1°♏12'52	
	2935 Nov 06	19:07	0°♐	
desc. node	2935 Nov 08	17:42	2°♐24'55	
	2935 Nov 30	21:48	0°♑	
	2935 Dec 25	01:16	0°♒	
	2936 Jan 18	07:39	0°♓	
	2936 Feb 11	21:40	0°♈	
asc. node	2936 Feb 29	20:34	21°♈26'13	
	2936 Mar 08	04:13	0°♉	
	2936 Apr 03	22:10	0°♊	
evening max el	2936 Apr 18	19:10	15°♊19'15	45°58'35
	2936 May 04	22:16	0°♋	
greatest brilliancy	2936 May 26	22:39	13°♋56'31	-4.7m
retrograde	2936 Jun 07	00:00	16°♋09'10	
desc. node	2936 Jun 20	10:10	12°♋37'15	
evening set	2936 Jun 22	01:10	11°♋45'47	
inferior conj	2936 Jun 28	11:04	7°♋54'15	-1°53'35
minimum elong	2936 Jun 28	06:57	8°♋00'42	1°52'23
min. Earth dist.	2936 Jun 28	06:02	8°♋02'09	0.28891 AU
morning rise	2936 Jul 04	13:01	4°♋14'12	
	2936 Jul 15	20:15	30°℞♊	
direct	2936 Jul 20	01:12	29°♊39'14	
	2936 Jul 24	08:14	0°♋	
greatest brilliancy	2936 Jul 30	05:00	1°♋30'30	-4.7m
morning max el	2936 Sep 06	20:22	29°♋29'02	45°49'28
	2936 Sep 07	09:14	0°♌	
	2936 Oct 06	01:51	0°♍	
asc. node	2936 Oct 11	13:30	6°♍08'19	
	2936 Nov 01	05:01	0°♎	
	2936 Nov 26	04:25	0°♏	
	2936 Dec 20	13:39	0°♐	
	2937 Jan 13	16:03	0°♑	
desc. node	2937 Jan 31	03:02	21°♑49'42	
	2937 Feb 06	15:41	0°♒	
	2937 Mar 02	14:49	0°♓	
morning set	2937 Mar 11	13:44	11°♓12'05	

	2937 Mar 26 15:01	0°♈	
	2937 Apr 19 17:31	0°♉	
superior conj	2937 Apr 20 04:17	0°♉33'27	-1°10'01
minimum elong	2937 Apr 20 14:19	1°♉04'33	1°09'42
max. Earth dist.	2937 Apr 24 00:12	5°♉18'31	1.72519 AU
	2937 May 13 23:07	0°♊	
asc. node	2937 May 24 06:20	12°♊41'56	
evening rise	2937 May 28 13:13	17°♊58'32	
	2937 Jun 07 08:00	0°♋	
	2937 Jul 01 20:05	0°♌	
	2937 Jul 26 11:49	0°♍	
	2937 Aug 20 08:47	0°♎	
desc. node	2937 Sep 12 19:49	27°♎56'18	
	2937 Sep 14 13:45	0°♏	
	2937 Oct 10 07:24	0°♐	
	2937 Nov 06 01:11	0°♑	
evening max el	2937 Nov 23 20:51	18°♑42'00	47°05'50
	2937 Dec 05 15:07	0°♒	
greatest brilliancy	2938 Jan 03 10:15	19°♒53'19	-4.9m
asc. node	2938 Jan 03 22:50	20°♒04'40	
retrograde	2938 Jan 13 12:22	21°♒49'49	
evening set	2938 Jan 29 04:02	16°♒59'59	
min. Earth dist.	2938 Feb 02 09:56	14°♒27'49	0.26797 AU
inferior conj	2938 Feb 03 03:51	14°♒00'10	6°53'27
minimum elong	2938 Feb 02 17:20	14°♒16'24	6°51'16
morning rise	2938 Feb 07 06:53	11°♒30'33	
direct	2938 Feb 23 14:01	6°♒19'07	
greatest brilliancy	2938 Mar 04 19:37	7°♒55'32	-4.9m
	2938 Apr 05 21:21	0°♓	
morning max el	2938 Apr 14 11:00	8°♓10'55	46°30'04
desc. node	2938 Apr 25 12:41	19°♓27'27	
	2938 May 05 10:03	0°♈	
	2938 Jun 01 06:07	0°♉	
	2938 Jun 27 02:51	0°♊	
	2938 Jul 22 11:05	0°♋	
	2938 Aug 16 09:50	0°♌	
asc. node	2938 Aug 16 15:46	0°♌17'59	
	2938 Sep 10 00:05	0°♍	
	2938 Oct 04 07:11	0°♎	
morning set	2938 Oct 09 23:17	7°♎02'41	
	2938 Oct 28 09:14	0°♏	
max. Earth dist.	2938 Nov 14 16:24	21°♏38'36	1.71608 AU
superior conj	2938 Nov 17 02:48	24°♏41'37	0°43'42
minimum elong	2938 Nov 17 12:05	25°♏10'40	0°43'19
	2938 Nov 21 08:25	0°♐	
desc. node	2938 Dec 06 05:31	18°♐39'44	
	2938 Dec 15 06:16	0°♑	
evening rise	2938 Dec 27 14:40	15°♑30'23	
	2939 Jan 08 03:45	0°♒	
	2939 Feb 01 02:06	0°♓	
	2939 Feb 25 03:28	0°♈	
	2939 Mar 21 11:10	0°♉	
asc. node	2939 Mar 29 08:37	9°♉37'55	
	2939 Apr 15 05:32	0°♊	
	2939 May 10 17:02	0°♋	
	2939 Jun 06 11:12	0°♌	
evening max el	2939 Jun 29 05:25	23°♌21'02	45°26'12
	2939 Jul 06 09:02	0°♍	
desc. node	2939 Jul 18 22:08	10°♍25'41	
greatest brilliancy	2939 Aug 06 19:28	21°♍14'05	-4.7m
retrograde	2939 Aug 16 21:03	23°♍03'51	
evening set	2939 Sep 03 15:36	17°♍10'10	
inferior conj	2939 Sep 07 06:32	14°♍57'17	-8°29'20
minimum elong	2939 Sep 07 02:37	15°♍03'22	8°29'07
min. Earth dist.	2939 Sep 07 15:58	14°♍42'37	0.28801 AU
morning rise	2939 Sep 10 13:27	12°♍55'48	
direct	2939 Sep 28 18:29	6°♍41'41	
greatest brilliancy	2939 Oct 09 17:27	8°♍53'00	-4.8m
	2939 Nov 08 20:07	0°♎	
asc. node	2939 Nov 09 01:12	0°♎11'46	
morning max el	2939 Nov 17 20:10	8°♎40'45	46°30'06
	2939 Dec 07 21:52	0°♏	
	2940 Jan 02 22:48	0°♐	
	2940 Jan 27 21:59	0°♑	
	2940 Feb 21 10:21	0°♒	
desc. node	2940 Feb 28 15:00	8°♒51'28	
	2940 Mar 16 18:17	0°♓	
	2940 Apr 10 01:01	0°♈	
	2940 May 04 08:24	0°♉	
morning set	2940 May 22 20:38	22°♉47'52	
	2940 May 28 17:06	0°♊	
asc. node	2940 Jun 20 18:03	28°♊19'28	
	2940 Jun 22 02:47	0°♋	
superior conj	2940 Jun 28 23:10	8°♋25'10	0°19'26
minimum elong	2940 Jun 28 19:12	8°♋12'58	0°19'14
max. Earth dist.	2940 Jun 28 20:41	8°♋17'32	1.73538 AU
	2940 Jul 16 12:32	0°♌	
evening rise	2940 Aug 04 00:11	22°♌44'12	
	2940 Aug 09 21:54	0°♍	
	2940 Sep 03 07:24	0°♎	
	2940 Sep 27 18:06	0°♏	
desc. node	2940 Oct 10 07:52	15°♏23'18	
	2940 Oct 22 07:05	0°♐	
	2940 Nov 15 23:30	0°♑	
	2940 Dec 10 22:23	0°♒	
	2941 Jan 05 12:38	0°♓	
asc. node	2941 Jan 31 10:45	28°♓32'02	
	2941 Feb 01 20:43	0°♈	
evening max el	2941 Feb 04 01:32	2°♈15'08	47°03'05
	2941 Mar 09 03:26	0°♉	
greatest brilliancy	2941 Mar 16 06:50	3°♉24'47	-4.9m
retrograde	2941 Mar 26 18:18	5°♉29'09	
	2941 Apr 12 11:19	30°℞♈	
evening set	2941 Apr 12 22:49	29°♈42'53	
inferior conj	2941 Apr 16 20:16	27°♈18'23	7°24'41
minimum elong	2941 Apr 17 05:36	27°♈03'45	7°23'09
min. Earth dist.	2941 Apr 16 16:02	27°♈25'02	0.28131 AU
morning rise	2941 Apr 21 12:41	24°♈26'40	
direct	2941 May 07 21:13	19°♈15'08	
greatest brilliancy	2941 May 17 11:50	20°♈57'28	-4.8m
desc. node	2941 May 23 00:18	23°♈15'51	
	2941 Jun 03 01:17	0°♉	
morning max el	2941 Jun 25 22:28	19°♉32'06	45°49'30
	2941 Jul 06 12:03	0°♊	
	2941 Aug 03 11:12	0°♋	
	2941 Aug 29 17:20	0°♌	
asc. node	2941 Sep 13 03:39	17°♌00'01	
	2941 Sep 24 00:35	0°♍	
	2941 Oct 18 16:31	0°♎	
	2941 Nov 11 22:25	0°♏	
	2941 Dec 05 22:31	0°♐	
greatest brilliancy	2941 Dec 16 04:07	12°♐50'35	-3.9m
morning set	2941 Dec 21 21:44	20°♐02'44	
	2941 Dec 29 19:48	0°♑	
desc. node	2942 Jan 02 17:15	4°♑53'49	
	2942 Jan 22 16:05	0°♒	
superior conj	2942 Feb 01 10:18	12°♒16'30	-1°03'37
minimum elong	2942 Jan 31 22:16	11°♒38'41	1°03'12
max. Earth dist.	2942 Feb 03 08:28	14°♒41'38	1.71167 AU
	2942 Feb 15 12:43	0°♓	

	2942 Mar 11 11:14	0°♈	
evening rise	2942 Mar 14 09:02	3°♈38'05	
	2942 Apr 04 13:22	0°♉	
asc. node	2942 Apr 25 20:28	26°♉17'51	
	2942 Apr 28 20:50	0°♊	
	2942 May 23 11:13	0°♋	
	2942 Jun 17 10:40	0°♌	
	2942 Jul 12 23:29	0°♍	
	2942 Aug 08 11:21	0°♎	
desc. node	2942 Aug 15 09:59	7°♎34'48	
	2942 Sep 06 01:09	0°♏	
evening max el	2942 Sep 09 09:27	3°♏15'06	46°01'55
	2942 Oct 14 05:19	0°♐	
greatest brilliancy	2942 Oct 19 08:41	2°♐02'57	-4.8m
retrograde	2942 Oct 28 13:23	3°♐35'44	
	2942 Nov 11 03:00	30°℞♏	
evening set	2942 Nov 13 00:15	29°♏00'02	
inferior conj	2942 Nov 18 06:41	25°♏53'13	-4°28'02
minimum elong	2942 Nov 18 15:43	25°♏39'25	4°25'32
min. Earth dist.	2942 Nov 19 01:08	25°♏25'02	0.27026 AU
morning rise	2942 Nov 24 06:37	22°♏21'41	
asc. node	2942 Dec 06 12:56	18°♏11'33	
direct	2942 Dec 09 01:32	18°♏03'45	
greatest brilliancy	2942 Dec 19 22:42	20°♏18'03	-4.9m
	2943 Jan 05 04:02	0°♐	
morning max el	2943 Jan 28 18:48	21°♐27'37	46°58'06
	2943 Feb 05 23:44	0°♑	
	2943 Mar 04 22:13	0°♒	
desc. node	2943 Mar 28 02:55	27°♒08'27	
	2943 Mar 30 12:45	0°♓	
	2943 Apr 24 14:35	0°♈	
	2943 May 19 10:56	0°♉	
	2943 Jun 13 04:38	0°♊	
	2943 Jul 07 20:07	0°♋	
asc. node	2943 Jul 19 05:59	13°♋56'16	
morning set	2943 Jul 30 23:20	28°♋17'55	
	2943 Aug 01 08:37	0°♌	
	2943 Aug 25 17:35	0°♍	
max. Earth dist.	2943 Sep 02 08:04	9°♍23'40	1.73015 AU
superior conj	2943 Sep 05 09:09	13°♍09'38	1°23'00
minimum elong	2943 Sep 05 05:18	12°♍57'46	1°22'57
	2943 Sep 18 23:23	0°♎	
evening rise	2943 Oct 12 07:04	28°♎57'31	
	2943 Oct 13 03:10	0°♏	
	2943 Nov 06 06:08	0°♐	
desc. node	2943 Nov 07 19:40	1°♐56'41	
	2943 Nov 30 09:03	0°♑	
	2943 Dec 24 12:50	0°♒	
	2944 Jan 17 19:40	0°♓	
	2944 Feb 11 10:26	0°♈	
asc. node	2944 Feb 28 22:39	20°♈52'09	
	2944 Mar 07 18:27	0°♉	
	2944 Apr 03 15:58	0°♊	
evening max el	2944 Apr 16 09:52	13°♊03'52	46°00'27
	2944 May 05 07:20	0°♋	
greatest brilliancy	2944 May 24 15:51	11°♋47'45	-4.7m
retrograde	2944 Jun 04 15:52	13°♋59'45	
evening set	2944 Jun 19 17:23	9°♋36'30	
desc. node	2944 Jun 19 12:13	9°♋43'32	
inferior conj	2944 Jun 26 03:22	5°♋45'00	-1°33'57
minimum elong	2944 Jun 25 23:57	5°♋50'23	1°32'58
min. Earth dist.	2944 Jun 25 22:56	5°♋51'59	0.28873 AU
morning rise	2944 Jul 02 06:42	2°♋02'45	
	2944 Jul 06 09:25	30°℞♊	
direct	2944 Jul 17 16:46	27°♊30'11	
greatest brilliancy	2944 Jul 27 21:19	29°♊21'40	-4.7m
	2944 Jul 29 14:17	0°♋	
morning max el	2944 Sep 04 10:51	27°♋15'21	45°48'40
	2944 Sep 07 06:49	0°♌	
	2944 Oct 05 17:14	0°♍	
asc. node	2944 Oct 10 15:32	5°♍32'17	
	2944 Oct 31 18:15	0°♎	
	2944 Nov 25 16:40	0°♏	
	2944 Dec 20 01:21	0°♐	
	2945 Jan 13 03:26	0°♑	
desc. node	2945 Jan 30 05:12	21°♑21'18	
	2945 Feb 06 02:51	0°♒	
	2945 Mar 02 01:49	0°♓	
morning set	2945 Mar 09 01:12	8°♓43'38	
	2945 Mar 26 01:52	0°♈	
superior conj	2945 Apr 17 18:36	28°♈15'26	-1°12'02
minimum elong	2945 Apr 18 04:22	28°♈45'46	1°11'47
	2945 Apr 19 04:17	0°♉	
max. Earth dist.	2945 Apr 21 15:00	3°♉02'10	1.72467 AU
	2945 May 13 09:53	0°♊	
asc. node	2945 May 23 08:17	12°♊14'43	
evening rise	2945 May 26 05:44	15°♊48'24	
	2945 Jun 06 18:51	0°♋	
	2945 Jul 01 07:08	0°♌	
	2945 Jul 25 23:14	0°♍	
	2945 Aug 19 20:48	0°♎	
desc. node	2945 Sep 11 21:54	27°♎24'18	
	2945 Sep 14 02:46	0°♏	
	2945 Oct 09 22:13	0°♐	
	2945 Nov 05 19:40	0°♑	
evening max el	2945 Nov 21 09:41	16°♑15'30	47°04'27
	2945 Dec 05 21:46	0°♒	
greatest brilliancy	2945 Dec 31 23:47	17°♒25'35	-4.9m
asc. node	2946 Jan 03 01:00	18°♒06'57	
retrograde	2946 Jan 11 01:10	19°♒21'53	
evening set	2946 Jan 26 13:05	14°♒37'22	
min. Earth dist.	2946 Jan 30 23:11	11°♒59'40	0.26755 AU
inferior conj	2946 Jan 31 16:32	11°♒32'59	6°37'39
minimum elong	2946 Jan 31 05:54	11°♒49'21	6°35'21
morning rise	2946 Feb 04 22:57	8°♒58'50	
direct	2946 Feb 21 02:01	3°♒52'12	
greatest brilliancy	2946 Mar 02 09:14	5°♒30'11	-4.9m
	2946 Apr 06 00:05	0°♓	
morning max el	2946 Apr 12 00:29	5°♓48'40	46°31'47
desc. node	2946 Apr 24 14:39	18°♓41'53	
	2946 May 05 03:14	0°♈	
	2946 May 31 20:13	0°♉	
	2946 Jun 26 15:28	0°♊	
	2946 Jul 21 22:54	0°♋	
asc. node	2946 Aug 15 17:51	29°♋49'57	
	2946 Aug 15 21:10	0°♌	
	2946 Sep 09 11:09	0°♍	
	2946 Oct 03 18:07	0°♎	
morning set	2946 Oct 07 15:04	4°♎48'33	
	2946 Oct 27 20:10	0°♏	
max. Earth dist.	2946 Nov 12 06:17	19°♏17'21	1.71651 AU
superior conj	2946 Nov 14 15:44	22°♏17'18	0°46'51
minimum elong	2946 Nov 15 01:22	22°♏47'27	0°46'26
	2946 Nov 20 19:25	0°♐	
desc. node	2946 Dec 05 07:31	18°♐11'19	
	2946 Dec 14 17:23	0°♑	
evening rise	2946 Dec 25 01:28	12°♑58'39	
	2947 Jan 07 14:59	0°♒	
	2947 Jan 31 13:26	0°♓	
	2947 Feb 24 14:59	0°♈	
	2947 Mar 20 23:00	0°♉	

asc. node	2947 Mar 28 10:35	9°♉07'31	
	2947 Apr 14 18:00	0°♊	
	2947 May 10 06:45	0°♋	
	2947 Jun 06 03:52	0°♌	
evening max el	2947 Jun 26 21:24	21°♌10'38	45°26'09
	2947 Jul 06 11:50	0°♍	
desc. node	2947 Jul 18 00:15	9°♍18'20	
greatest brilliancy	2947 Aug 04 08:29	19°♍00'20	-4.7m
retrograde	2947 Aug 14 12:51	20°♍52'08	
evening set	2947 Sep 01 04:33	15°♍01'41	
inferior conj	2947 Sep 04 22:06	12°♍44'43	-8°24'39
minimum elong	2947 Sep 04 17:30	12°♍51'53	8°24'21
min. Earth dist.	2947 Sep 05 06:06	12°♍32'18	0.28838 AU
morning rise	2947 Sep 08 06:19	10°♍41'22	
direct	2947 Sep 26 11:01	4°♍28'49	
greatest brilliancy	2947 Oct 07 08:14	6°♍38'51	-4.8m
asc. node	2947 Nov 08 03:11	29°♍16'13	
	2947 Nov 08 21:46	0°♎	
morning max el	2947 Nov 15 12:04	6°♎25'18	46°28'30
	2947 Dec 07 14:49	0°♏	
	2948 Jan 02 13:04	0°♐	
	2948 Jan 27 10:59	0°♑	
	2948 Feb 20 22:38	0°♒	
desc. node	2948 Feb 27 17:00	8°♒20'14	
	2948 Mar 16 06:04	0°♓	
	2948 Apr 09 12:26	0°♈	
	2948 May 03 19:32	0°♉	
morning set	2948 May 20 13:22	20°♉37'50	
	2948 May 28 04:03	0°♊	
asc. node	2948 Jun 19 20:12	27°♊52'45	
	2948 Jun 21 13:36	0°♋	
superior conj	2948 Jun 26 17:05	6°♋19'27	0°16'18
minimum elong	2948 Jun 26 13:43	6°♋09'06	0°16'09
max. Earth dist.	2948 Jun 26 20:25	6°♋29'40	1.73529 AU
	2948 Jul 15 23:21	0°♌	
evening rise	2948 Aug 01 19:05	20°♌41'09	
	2948 Aug 09 08:52	0°♍	
	2948 Sep 02 18:36	0°♎	
	2948 Sep 27 05:42	0°♏	
desc. node	2948 Oct 09 09:46	14°♏52'59	
	2948 Oct 21 19:12	0°♐	
	2948 Nov 15 12:22	0°♑	
	2948 Dec 10 12:24	0°♒	
	2949 Jan 05 04:49	0°♓	
asc. node	2949 Jan 30 12:50	27°♓42'23	
evening max el	2949 Feb 01 17:18	29°♓56'46	47°04'35
	2949 Feb 01 18:35	0°♈	
	2949 Mar 11 06:16	0°♉	
greatest brilliancy	2949 Mar 13 22:18	1°♉06'41	-4.9m
retrograde	2949 Mar 24 09:55	3°♉10'50	
	2949 Apr 05 21:28	30°℞♈	
evening set	2949 Apr 10 16:48	27°♈20'36	
inferior conj	2949 Apr 14 11:12	25°♈00'30	7°36'20
minimum elong	2949 Apr 14 20:12	24°♈46'23	7°34'57
min. Earth dist.	2949 Apr 14 06:07	25°♈08'28	0.28093 AU
morning rise	2949 Apr 18 23:54	22°♈14'11	
direct	2949 May 05 12:15	16°♈58'09	
greatest brilliancy	2949 May 15 00:44	18°♈39'02	-4.8m
desc. node	2949 May 22 02:20	21°♈44'27	
	2949 Jun 03 17:35	0°♉	
morning max el	2949 Jun 23 13:43	17°♉18'40	45°50'24
	2949 Jul 06 07:13	0°♊	
	2949 Aug 03 01:57	0°♋	
	2949 Aug 29 06:15	0°♌	
asc. node	2949 Sep 12 05:40	16°♌29'14	
	2949 Sep 23 12:37	0°♍	
	2949 Oct 18 04:07	0°♎	
	2949 Nov 11 09:50	0°♏	
	2949 Dec 05 09:50	0°♐	
greatest brilliancy	2949 Dec 15 14:16	12°♐47'00	-3.9m
morning set	2949 Dec 19 08:50	17°♐31'26	
	2949 Dec 29 07:03	0°♑	
desc. node	2950 Jan 01 19:25	4°♑25'14	
	2950 Jan 22 03:18	0°♒	
superior conj	2950 Jan 29 20:04	9°♒41'02	-1°00'49
minimum elong	2950 Jan 29 08:02	9°♒03'13	1°00'24
max. Earth dist.	2950 Jan 31 15:15	11°♒56'50	1.71145 AU
	2950 Feb 14 23:56	0°♓	
	2950 Mar 10 22:27	0°♈	
evening rise	2950 Mar 11 20:01	1°♈07'26	
	2950 Apr 04 00:38	0°♉	
asc. node	2950 Apr 24 22:29	25°♉49'05	
	2950 Apr 28 08:15	0°♊	
	2950 May 22 22:56	0°♋	
	2950 Jun 16 23:00	0°♌	
	2950 Jul 12 12:59	0°♍	
	2950 Aug 08 03:20	0°♎	
desc. node	2950 Aug 14 12:01	6°♎54'33	
	2950 Sep 05 23:54	0°♏	
evening max el	2950 Sep 06 22:30	0°♏54'25	45°59'36
greatest brilliancy	2950 Oct 16 22:14	29°♏40'23	-4.8m
	2950 Oct 17 23:56	0°♐	
retrograde	2950 Oct 26 01:13	1°♐11'53	
	2950 Nov 02 19:52	30°℞♏	
evening set	2950 Nov 10 16:02	26°♏32'04	
inferior conj	2950 Nov 15 19:44	23°♏28'58	-4°47'48
minimum elong	2950 Nov 16 05:11	23°♏14'30	4°45'15
min. Earth dist.	2950 Nov 16 15:25	22°♏58'51	0.27089 AU
morning rise	2950 Nov 21 17:43	19°♏59'34	
asc. node	2950 Dec 05 15:07	15°♏39'32	
direct	2950 Dec 06 14:50	15°♏38'21	
greatest brilliancy	2950 Dec 17 13:53	17°♏53'51	-4.9m
	2951 Jan 05 19:46	0°♐	
morning max el	2951 Jan 26 07:19	18°♐58'56	46°58'03
	2951 Feb 05 19:46	0°♑	
	2951 Mar 04 13:51	0°♒	
desc. node	2951 Mar 27 04:55	26°♒33'19	
	2951 Mar 30 02:26	0°♓	
	2951 Apr 24 03:11	0°♈	
	2951 May 18 22:50	0°♉	
	2951 Jun 12 16:03	0°♊	
	2951 Jul 07 07:13	0°♋	
asc. node	2951 Jul 18 08:03	13°♋28'55	
morning set	2951 Jul 28 17:21	26°♋12'23	
	2951 Jul 31 19:33	0°♌	
	2951 Aug 25 04:27	0°♍	
max. Earth dist.	2951 Aug 31 02:39	7°♍19'11	1.73055 AU
superior conj	2951 Sep 03 03:11	11°♍03'26	1°22'14
minimum elong	2951 Sep 02 22:45	10°♍49'41	1°22'11
	2951 Sep 18 10:18	0°♎	
evening rise	2951 Oct 09 22:48	26°♎42'59	
	2951 Oct 12 14:13	0°♏	
	2951 Nov 05 17:25	0°♐	
desc. node	2951 Nov 06 21:45	1°♐28'03	
	2951 Nov 29 20:39	0°♑	
	2951 Dec 24 00:48	0°♒	
	2952 Jan 17 08:08	0°♓	
	2952 Feb 10 23:40	0°♈	
asc. node	2952 Feb 28 00:37	20°♈16'21	
	2952 Mar 07 09:13	0°♉	
	2952 Apr 03 10:32	0°♊	

evening max el	2952 Apr 14 00:01	10°♊46'19	46°02'38	
	2952 May 05 19:57	0°♋		
greatest brilliancy	2952 May 22 08:41	9°♋38'00	-4.8m	
retrograde	2952 Jun 02 08:09	11°♋50'07		
evening set	2952 Jun 17 09:50	7°♋26'26		
desc. node	2952 Jun 18 14:23	6°♋46'26		
inferior conj	2952 Jun 23 19:45	3°♋35'21	-1°14'16	
minimum elong	2952 Jun 23 17:02	3°♋39'38	1°13'29	
min. Earth dist.	2952 Jun 23 15:47	3°♋41'35	0.28854 AU	
	2952 Jun 29 18:07	30°℞♊		
morning rise	2952 Jun 30 00:22	29°♊51'19		
direct	2952 Jul 15 08:17	25°♊20'36		
greatest brilliancy	2952 Jul 25 13:56	27°♊12'50	-4.7m	
	2952 Jul 31 22:50	0°♋		
morning max el	2952 Sep 02 02:09	25°♋03'19	45°48'02	
	2952 Sep 07 03:45	0°♌		
	2952 Oct 05 08:30	0°♍		
asc. node	2952 Oct 09 17:30	4°♍56'02		
	2952 Oct 31 07:29	0°♎		
	2952 Nov 25 04:57	0°♏		
	2952 Dec 19 13:11	0°♐		
	2953 Jan 12 15:00	0°♑		
desc. node	2953 Jan 29 07:11	20°♑51'42		
	2953 Feb 05 14:15	0°♒		
	2953 Mar 01 13:04	0°♓		
morning set	2953 Mar 06 11:59	6°♓12'09		
	2953 Mar 25 12:59	0°♈		
superior conj	2953 Apr 15 08:21	25°♈54'58	-1°13'59	
minimum elong	2953 Apr 15 17:50	26°♈24'23	1°13'45	
	2953 Apr 18 15:16	0°♉		
max. Earth dist.	2953 Apr 19 03:59	0°♉39'26	1.72410 AU	
	2953 May 12 20:49	0°♊		
asc. node	2953 May 22 10:25	11°♊47'37		
evening rise	2953 May 23 21:56	13°♊36'54		
	2953 Jun 06 05:50	0°♋		
	2953 Jun 30 18:18	0°♌		
	2953 Jul 25 10:45	0°♍		
	2953 Aug 19 08:55	0°♎		
desc. node	2953 Sep 10 23:51	26°♎51'42		
	2953 Sep 13 15:55	0°♏		
	2953 Oct 09 13:11	0°♐		
	2953 Nov 05 14:35	0°♑		
evening max el	2953 Nov 18 23:06	13°♑50'54	47°02'56	
	2953 Dec 06 06:51	0°♒		
greatest brilliancy	2953 Dec 29 12:31	14°♒56'53	-4.9m	
asc. node	2954 Jan 02 03:00	16°♒03'59		
retrograde	2954 Jan 08 14:21	16°♒53'36		
evening set	2954 Jan 23 22:10	12°♒14'00		
min. Earth dist.	2954 Jan 28 12:04	9°♒31'17	0.26722 AU	
inferior conj	2954 Jan 29 05:06	9°♒05'10	6°20'58	
minimum elong	2954 Jan 28 18:25	9°♒21'33	6°18'32	
morning rise	2954 Feb 02 14:57	6°♒26'32		
direct	2954 Feb 18 14:33	1°♒24'37		
greatest brilliancy	2954 Feb 27 22:26	3°♒03'41	-4.9m	
	2954 Apr 06 01:38	0°♓		
morning max el	2954 Apr 09 14:42	3°♓27'35	46°33'22	
desc. node	2954 Apr 23 16:41	17°♓56'31		
	2954 May 04 20:17	0°♈		
	2954 May 31 10:18	0°♉		
	2954 Jun 26 04:05	0°♊		
	2954 Jul 21 10:40	0°♋		
asc. node	2954 Aug 14 19:46	29°♋21'35		
	2954 Aug 15 08:26	0°♌		
	2954 Sep 08 22:08	0°♍		
	2954 Oct 03 04:59	0°♎		
morning set	2954 Oct 05 07:12	2°♎35'51		
	2954 Oct 27 07:01	0°♏		
max. Earth dist.	2954 Nov 09 19:36	16°♏54'42	1.71689 AU	
superior conj	2954 Nov 12 05:15	19°♏55'12	0°49'51	
minimum elong	2954 Nov 12 15:09	20°♏26'11	0°49'27	
	2954 Nov 20 06:20	0°♐		
desc. node	2954 Dec 04 09:40	17°♐43'46		
	2954 Dec 14 04:22	0°♑		
evening rise	2954 Dec 22 12:46	10°♑28'54		
	2955 Jan 07 02:05	0°♒		
	2955 Jan 31 00:40	0°♓		
	2955 Feb 24 02:27	0°♈		
	2955 Mar 20 10:51	0°♉		
asc. node	2955 Mar 27 12:35	8°♉37'13		
	2955 Apr 14 06:31	0°♊		
	2955 May 09 20:36	0°♋		
	2955 Jun 05 20:49	0°♌		
evening max el	2955 Jun 24 13:42	19°♌01'13	45°26'19	
	2955 Jul 06 16:10	0°♍		
desc. node	2955 Jul 17 02:12	8°♍09'16		
greatest brilliancy	2955 Aug 01 22:20	16°♍48'17	-4.7m	
retrograde	2955 Aug 12 04:35	18°♍41'16		
evening set	2955 Aug 29 17:33	12°♍54'38		
inferior conj	2955 Sep 02 13:51	10°♍33'15	-8°19'20	
minimum elong	2955 Sep 02 08:34	10°♍41'29	8°18'56	
min. Earth dist.	2955 Sep 02 20:28	10°♍22'58	0.28868 AU	
morning rise	2955 Sep 05 23:29	8°♍27'38		
direct	2955 Sep 24 03:43	2°♍17'15		
greatest brilliancy	2955 Oct 04 22:47	4°♍25'23	-4.8m	
asc. node	2955 Nov 07 05:19	28°♍22'53		
	2955 Nov 08 21:52	0°♎		
morning max el	2955 Nov 13 03:30	4°♎09'38	46°26'53	
	2955 Dec 07 07:10	0°♏		
	2956 Jan 02 02:55	0°♐		
	2956 Jan 26 23:38	0°♑		
	2956 Feb 20 10:34	0°♒		
desc. node	2956 Feb 26 19:00	7°♒49'58		
	2956 Mar 15 17:32	0°♓		
	2956 Apr 08 23:36	0°♈		
	2956 May 03 06:29	0°♉		
morning set	2956 May 18 05:49	18°♉27'24		
	2956 May 27 14:49	0°♊		
asc. node	2956 Jun 18 22:15	27°♊26'19		
	2956 Jun 21 00:15	0°♋		
superior conj	2956 Jun 24 10:38	4°♋13'08	0°13'08	
minimum elong	2956 Jun 24 07:54	4°♋04'44	0°13'00	
behind sun begin	2956 Jun 23 18:43	3°♋24'15		
behind sun end	2956 Jun 24 21:04	4°♋45'14		
max. Earth dist.	2956 Jun 24 18:49	4°♋38'19	1.73514 AU	
	2956 Jul 15 09:59	0°♌		
evening rise	2956 Jul 30 13:39	18°♌37'50		
	2956 Aug 08 19:35	0°♍		
	2956 Sep 02 05:34	0°♎		
	2956 Sep 26 17:03	0°♏		
desc. node	2956 Oct 08 11:52	14°♏24'04		
	2956 Oct 21 07:05	0°♐		
	2956 Nov 15 01:00	0°♑		
	2956 Dec 10 02:12	0°♒		
	2957 Jan 04 20:53	0°♓		
asc. node	2957 Jan 29 14:48	26°♓52'45		
evening max el	2957 Jan 30 08:24	27°♓37'39	47°05'59	
	2957 Feb 01 16:49	0°♈		
greatest brilliancy	2957 Mar 11 14:14	28°♈50'18	-4.9m	
	2957 Mar 15 06:05	0°♉		
retrograde	2957 Mar 22 01:06	0°♉53'37		
	2957 Mar 28 15:03	30°℞♈		

evening set	2957 Apr 08 10:43	24°♈59'43	
inferior conj	2957 Apr 12 02:10	22°♈43'51	7°47'14
minimum elong	2957 Apr 12 10:44	22°♈30'23	7°46'01
min. Earth dist.	2957 Apr 11 20:26	22°♈52'53	0.28056 AU
morning rise	2957 Apr 16 11:05	20°♈02'54	
direct	2957 May 03 03:01	14°♈42'25	
greatest brilliancy	2957 May 12 14:02	16°♈22'00	-4.8m
desc. node	2957 May 21 04:29	20°♈17'20	
	2957 Jun 04 05:16	0°♉	
morning max el	2957 Jun 21 04:06	15°♉03'55	45°51'12
	2957 Jul 06 01:34	0°♊	
	2957 Aug 02 16:13	0°♋	
	2957 Aug 28 18:47	0°♌	
asc. node	2957 Sep 11 07:43	15°♌59'33	
	2957 Sep 23 00:17	0°♍	
	2957 Oct 17 15:20	0°♎	
	2957 Nov 10 20:49	0°♏	
	2957 Dec 04 20:44	0°♐	
greatest brilliancy	2957 Dec 14 07:14	11°♐50'42	-3.9m
morning set	2957 Dec 16 20:07	15°♐01'55	
	2957 Dec 28 17:55	0°♑	
desc. node	2957 Dec 31 21:21	3°♑57'12	
	2958 Jan 21 14:08	0°♒	
superior conj	2958 Jan 27 06:05	7°♒07'33	-0°57'54
minimum elong	2958 Jan 26 18:09	6°♒30'02	0°57'27
max. Earth dist.	2958 Jan 28 18:27	9°♒01'55	1.71125 AU
	2958 Feb 14 10:45	0°♓	
evening rise	2958 Mar 09 07:09	28°♓38'24	
	2958 Mar 10 09:15	0°♈	
	2958 Apr 03 11:29	0°♉	
asc. node	2958 Apr 24 00:37	25°♉21'59	
	2958 Apr 27 19:14	0°♊	
	2958 May 22 10:16	0°♋	
	2958 Jun 16 11:00	0°♌	
	2958 Jul 12 02:16	0°♍	
	2958 Aug 07 19:15	0°♎	
desc. node	2958 Aug 13 13:59	6°♎14'36	
evening max el	2958 Sep 04 10:54	28°♎33'21	45°57'30
	2958 Sep 05 23:14	0°♏	
greatest brilliancy	2958 Oct 14 11:45	27°♏19'17	-4.8m
retrograde	2958 Oct 23 13:22	28°♏49'58	
evening set	2958 Nov 08 07:58	24°♏05'31	
inferior conj	2958 Nov 13 08:55	21°♏06'26	-5°06'45
minimum elong	2958 Nov 13 18:43	20°♏51'26	5°04'13
min. Earth dist.	2958 Nov 14 05:45	20°♏34'33	0.27152 AU
morning rise	2958 Nov 19 04:46	17°♏39'39	
direct	2958 Dec 04 04:00	13°♏14'29	
asc. node	2958 Dec 04 17:07	13°♏14'50	
greatest brilliancy	2958 Dec 15 05:19	15°♏31'41	-4.9m
	2959 Jan 06 06:56	0°♐	
morning max el	2959 Jan 23 20:32	16°♐33'20	46°57'57
	2959 Feb 05 14:45	0°♑	
	2959 Mar 04 04:49	0°♒	
desc. node	2959 Mar 26 06:57	25°♒59'45	
	2959 Mar 29 15:36	0°♓	
	2959 Apr 23 15:18	0°♈	
	2959 May 18 10:16	0°♉	
	2959 Jun 12 03:02	0°♊	
	2959 Jul 06 17:55	0°♋	
asc. node	2959 Jul 17 09:59	13°♋02'17	
morning set	2959 Jul 26 11:13	24°♋07'33	
	2959 Jul 31 06:07	0°♌	
	2959 Aug 24 15:00	0°♍	
max. Earth dist.	2959 Aug 28 22:16	5°♍18'55	1.73097 AU
superior conj	2959 Aug 31 21:01	8°♍57'34	1°21'22
minimum elong	2959 Aug 31 16:00	8°♍42'04	1°21'18
	2959 Sep 17 20:54	0°♎	
evening rise	2959 Oct 07 14:24	24°♎29'09	
	2959 Oct 12 00:58	0°♏	
	2959 Nov 05 04:22	0°♐	
desc. node	2959 Nov 05 23:49	1°♐00'25	
	2959 Nov 29 07:54	0°♑	
	2959 Dec 23 12:25	0°♒	
	2960 Jan 16 20:16	0°♓	
	2960 Feb 10 12:37	0°♈	
asc. node	2960 Feb 27 02:41	19°♈41'41	
	2960 Mar 06 23:46	0°♉	
	2960 Apr 03 05:10	0°♊	
evening max el	2960 Apr 11 14:42	8°♊31'14	46°04'56
	2960 May 06 12:11	0°♋	
greatest brilliancy	2960 May 20 00:59	7°♋28'47	-4.8m
retrograde	2960 May 31 00:55	9°♋41'43	
evening set	2960 Jun 15 02:26	5°♋17'14	
desc. node	2960 Jun 17 16:16	3°♋48'28	
inferior conj	2960 Jun 21 12:07	1°♋26'45	-0°54'33
minimum elong	2960 Jun 21 10:06	1°♋29'54	0°53'56
min. Earth dist.	2960 Jun 21 08:18	1°♋32'44	0.28836 AU
	2960 Jun 23 19:45	30°℞♊	
morning rise	2960 Jun 27 17:56	27°♊41'19	
direct	2960 Jul 13 00:04	23°♊12'04	
greatest brilliancy	2960 Jul 23 06:07	25°♊04'48	-4.7m
	2960 Aug 02 10:25	0°♋	
morning max el	2960 Aug 30 18:18	22°♋54'26	45°47'17
	2960 Sep 06 23:38	0°♌	
	2960 Oct 04 23:18	0°♍	
asc. node	2960 Oct 08 19:38	4°♍21'15	
	2960 Oct 30 20:24	0°♎	
	2960 Nov 24 16:58	0°♏	
	2960 Dec 19 00:43	0°♐	
	2961 Jan 12 02:16	0°♑	
desc. node	2961 Jan 28 09:10	20°♑23'05	
	2961 Feb 05 01:20	0°♒	
	2961 Mar 01 00:00	0°♓	
morning set	2961 Mar 03 22:39	3°♓41'08	
	2961 Mar 24 23:47	0°♈	
superior conj	2961 Apr 12 21:59	23°♈34'47	-1°15'48
minimum elong	2961 Apr 13 07:05	24°♈03'04	1°15'35
max. Earth dist.	2961 Apr 16 16:38	28°♈16'27	1.72356 AU
	2961 Apr 18 02:00	0°♉	
	2961 May 12 07:31	0°♊	
evening rise	2961 May 21 14:06	11°♊26'01	
asc. node	2961 May 21 12:26	11°♊20'56	
	2961 Jun 05 16:35	0°♋	
	2961 Jun 30 05:13	0°♌	
	2961 Jul 24 22:01	0°♍	
	2961 Aug 18 20:51	0°♎	
desc. node	2961 Sep 10 01:56	26°♎19'52	
	2961 Sep 13 04:58	0°♏	
	2961 Oct 09 04:15	0°♐	
	2961 Nov 05 09:57	0°♑	
evening max el	2961 Nov 16 13:29	11°♑29'02	47°01'23
	2961 Dec 06 19:00	0°♒	
greatest brilliancy	2961 Dec 27 00:58	12°♒27'58	-4.9m
asc. node	2962 Jan 01 04:58	13°♒55'50	
retrograde	2962 Jan 06 03:40	14°♒25'05	
evening set	2962 Jan 21 07:21	9°♒50'23	
min. Earth dist.	2962 Jan 26 00:38	7°♒03'00	0.26685 AU
inferior conj	2962 Jan 26 17:29	6°♒37'13	6°03'30
minimum elong	2962 Jan 26 06:52	6°♒53'27	6°00'57
morning rise	2962 Jan 31 06:44	3°♒54'09	
	2962 Feb 09 00:45	30°℞♑	

direct	2962 Feb 16 03:20	28°♋57'15	
	2962 Feb 23 11:33	0°♒	
greatest brilliancy	2962 Feb 25 10:57	0°♒36'36	-4.9m
	2962 Apr 06 01:43	0°♓	
morning max el	2962 Apr 07 04:48	1°♓06'46	46°34'50
desc. node	2962 Apr 22 18:50	17°♓12'39	
	2962 May 04 12:47	0°♈	
	2962 May 31 00:04	0°♉	
	2962 Jun 25 16:28	0°♊	
	2962 Jul 20 22:15	0°♋	
asc. node	2962 Aug 13 21:54	28°♋54'22	
	2962 Aug 14 19:32	0°♌	
	2962 Sep 08 08:58	0°♍	
morning set	2962 Oct 02 23:25	0°♎23'52	
	2962 Oct 02 15:44	0°♎	
	2962 Oct 26 17:48	0°♏	
max. Earth dist.	2962 Nov 07 06:37	14°♏25'06	1.71735 AU
superior conj	2962 Nov 09 18:45	17°♏33'17	0°52'45
minimum elong	2962 Nov 10 04:50	18°♏04'51	0°52'22
	2962 Nov 19 17:13	0°♐	
desc. node	2962 Dec 03 11:38	17°♐15'35	
	2962 Dec 13 15:23	0°♑	
evening rise	2962 Dec 19 23:40	7°♑57'49	
	2963 Jan 06 13:11	0°♒	
	2963 Jan 30 11:55	0°♓	
	2963 Feb 23 13:54	0°♈	
	2963 Mar 19 22:40	0°♉	
asc. node	2963 Mar 26 14:43	8°♉07'19	
	2963 Apr 13 19:03	0°♊	
	2963 May 09 10:32	0°♋	
	2963 Jun 05 14:05	0°♌	
evening max el	2963 Jun 22 05:50	16°♌51'21	45°26'29
	2963 Jul 06 22:29	0°♍	
desc. node	2963 Jul 16 04:17	6°♍58'33	
greatest brilliancy	2963 Jul 30 12:55	14°♍37'15	-4.7m
retrograde	2963 Aug 09 19:56	16°♍30'42	
evening set	2963 Aug 27 06:28	10°♍48'21	
inferior conj	2963 Aug 31 05:42	8°♍22'18	-8°13'21
minimum elong	2963 Aug 30 23:45	8°♍31'34	8°12'49
min. Earth dist.	2963 Aug 31 11:15	8°♍13'38	0.28894 AU
morning rise	2963 Sep 03 16:58	6°♍13'58	
direct	2963 Sep 21 20:04	0°♍06'14	
greatest brilliancy	2963 Oct 02 13:32	2°♍12'27	-4.8m
asc. node	2963 Nov 06 07:20	27°♍30'21	
	2963 Nov 08 20:52	0°♎	
morning max el	2963 Nov 10 17:54	1°♎51'29	46°25'09
	2963 Dec 06 23:18	0°♏	
	2964 Jan 01 16:46	0°♐	
	2964 Jan 26 12:22	0°♑	
	2964 Feb 19 22:38	0°♒	
desc. node	2964 Feb 25 21:08	7°♒19'41	
	2964 Mar 15 05:09	0°♓	
	2964 Apr 08 10:52	0°♈	
	2964 May 02 17:30	0°♉	
morning set	2964 May 15 22:02	16°♉15'57	
	2964 May 27 01:39	0°♊	
asc. node	2964 Jun 18 00:10	26°♊59'11	
	2964 Jun 20 11:00	0°♋	
superior conj	2964 Jun 22 04:09	2°♋06'26	0°09'56
minimum elong	2964 Jun 22 02:04	2°♋00'02	0°09'50
behind sun begin	2964 Jun 21 07:59	1°♋04'27	
behind sun end	2964 Jun 22 20:09	2°♋55'36	
max. Earth dist.	2964 Jun 22 15:52	2°♋42'26	1.73498 AU
	2964 Jul 14 20:44	0°♌	
evening rise	2964 Jul 28 08:19	16°♌34'23	
	2964 Aug 08 06:27	0°♍	
	2964 Sep 01 16:41	0°♎	
	2964 Sep 26 04:32	0°♏	
desc. node	2964 Oct 07 13:59	13°♏54'47	
	2964 Oct 20 19:07	0°♐	
	2964 Nov 14 13:51	0°♑	
	2964 Dec 09 16:21	0°♒	
	2965 Jan 04 13:33	0°♓	
evening max el	2965 Jan 27 22:29	25°♓14'44	47°07'12
asc. node	2965 Jan 28 16:53	26°♓01'28	
	2965 Feb 01 16:27	0°♈	
greatest brilliancy	2965 Mar 09 06:37	26°♈32'44	-4.9m
retrograde	2965 Mar 19 15:49	28°♈34'40	
evening set	2965 Apr 06 04:24	22°♈37'14	
inferior conj	2965 Apr 09 16:58	20°♈25'38	7°57'32
minimum elong	2965 Apr 10 01:04	20°♈12'53	7°56'27
min. Earth dist.	2965 Apr 09 10:53	20°♈35'13	0.28015 AU
morning rise	2965 Apr 13 22:01	17°♈50'08	
direct	2965 Apr 30 16:58	12°♈25'00	
greatest brilliancy	2965 May 10 03:39	14°♈03'56	-4.8m
desc. node	2965 May 20 06:25	18°♈51'38	
	2965 Jun 04 14:19	0°♉	
morning max el	2965 Jun 18 17:45	12°♉46'20	45°52'11
	2965 Jul 05 19:42	0°♊	
	2965 Aug 02 06:33	0°♋	
	2965 Aug 28 07:28	0°♌	
asc. node	2965 Sep 10 09:46	15°♌29'18	
	2965 Sep 22 12:09	0°♍	
	2965 Oct 17 02:47	0°♎	
	2965 Nov 10 08:03	0°♏	
	2965 Dec 04 07:51	0°♐	
greatest brilliancy	2965 Dec 12 19:03	10°♐37'35	-3.9m
morning set	2965 Dec 14 07:49	12°♐33'02	
	2965 Dec 28 05:00	0°♑	
desc. node	2965 Dec 30 23:23	3°♑28'43	
	2966 Jan 21 01:14	0°♒	
superior conj	2966 Jan 24 16:09	4°♒33'21	-0°54'52
minimum elong	2966 Jan 24 04:24	3°♒56'25	0°54'24
max. Earth dist.	2966 Jan 25 20:05	6°♒01'12	1.71115 AU
	2966 Feb 13 21:52	0°♓	
evening rise	2966 Mar 06 17:58	26°♓07'17	
	2966 Mar 09 20:24	0°♈	
	2966 Apr 02 22:41	0°♉	
asc. node	2966 Apr 23 02:34	24°♉53'12	
	2966 Apr 27 06:35	0°♊	
	2966 May 21 21:59	0°♋	
	2966 Jun 15 23:24	0°♌	
	2966 Jul 11 16:00	0°♍	
	2966 Aug 07 11:49	0°♎	
desc. node	2966 Aug 12 16:07	5°♎33'37	
evening max el	2966 Sep 01 23:34	26°♎12'11	45°55'30
	2966 Sep 06 00:05	0°♏	
greatest brilliancy	2966 Oct 12 00:57	24°♏57'18	-4.8m
retrograde	2966 Oct 21 02:07	26°♏27'51	
evening set	2966 Nov 06 00:04	21°♏38'26	
inferior conj	2966 Nov 10 22:12	18°♏43'30	-5°25'04
minimum elong	2966 Nov 11 08:17	18°♏28'05	5°22'34
min. Earth dist.	2966 Nov 11 19:57	18°♏10'16	0.27217 AU
morning rise	2966 Nov 16 15:46	15°♏19'53	
direct	2966 Dec 01 17:38	10°♏50'11	
asc. node	2966 Dec 03 19:03	10°♏55'16	
greatest brilliancy	2966 Dec 12 20:36	13°♏09'05	-4.9m
	2967 Jan 06 15:25	0°♐	
morning max el	2967 Jan 21 10:46	14°♐09'45	46°57'49
	2967 Feb 05 09:31	0°♑	
	2967 Mar 03 19:55	0°♒	

desc. node	2967 Mar 25 09:02	25°♒25'26	
	2967 Mar 29 05:01	0°♓	
	2967 Apr 23 03:45	0°♈	
	2967 May 17 22:04	0°♉	
	2967 Jun 11 14:24	0°♊	
	2967 Jul 06 04:59	0°♋	
asc. node	2967 Jul 16 12:06	12°♋35'12	
morning set	2967 Jul 24 05:01	22°♋01'25	
	2967 Jul 30 17:02	0°♌	
	2967 Aug 24 01:52	0°♍	
max. Earth dist.	2967 Aug 26 19:42	3°♍23'15	1.73136 AU
superior conj	2967 Aug 29 14:52	6°♍50'45	1°20'23
minimum elong	2967 Aug 29 09:18	6°♍33'34	1°20'17
	2967 Sep 17 07:51	0°♎	
evening rise	2967 Oct 05 06:18	22°♎15'08	
	2967 Oct 11 12:05	0°♏	
	2967 Nov 04 15:43	0°♐	
desc. node	2967 Nov 05 01:46	0°♐31'14	
	2967 Nov 28 19:31	0°♑	
	2967 Dec 23 00:24	0°♒	
	2968 Jan 16 08:43	0°♓	
	2968 Feb 10 01:55	0°♈	
asc. node	2968 Feb 26 04:46	19°♈06'00	
	2968 Mar 06 14:48	0°♉	
	2968 Apr 03 00:42	0°♊	
evening max el	2968 Apr 09 06:19	6°♊17'21	46°07'07
	2968 May 07 11:03	0°♋	
greatest brilliancy	2968 May 17 17:07	5°♋18'02	-4.8m
retrograde	2968 May 28 18:01	7°♋31'49	
evening set	2968 Jun 12 19:13	3°♋06'30	
desc. node	2968 Jun 16 18:20	0°♋47'04	
	2968 Jun 18 00:43	30°℞♊	
inferior conj	2968 Jun 19 04:26	29°♊16'39	-0°34'32
minimum elong	2968 Jun 19 03:09	29°♊18'39	0°34'09
min. Earth dist.	2968 Jun 19 00:34	29°♊22'42	0.28817 AU
morning rise	2968 Jun 25 11:20	25°♊30'07	
direct	2968 Jul 10 16:16	21°♊02'11	
greatest brilliancy	2968 Jul 20 21:44	22°♊54'53	-4.7m
	2968 Aug 03 12:12	0°♋	
morning max el	2968 Aug 28 11:03	20°♋46'05	45°46'34
	2968 Sep 06 19:20	0°♌	
	2968 Oct 04 14:14	0°♍	
asc. node	2968 Oct 07 21:38	3°♍45'22	
	2968 Oct 30 09:32	0°♎	
	2968 Nov 24 05:14	0°♏	
	2968 Dec 18 12:33	0°♐	
	2969 Jan 11 13:50	0°♑	
desc. node	2969 Jan 27 11:19	19°♑54'03	
	2969 Feb 04 12:42	0°♒	
	2969 Feb 28 11:12	0°♓	
morning set	2969 Mar 01 09:37	1°♓10'11	
	2969 Mar 24 10:50	0°♈	
superior conj	2969 Apr 10 11:44	21°♈14'05	-1°17'29
minimum elong	2969 Apr 10 20:23	21°♈40'57	1°17'18
max. Earth dist.	2969 Apr 14 07:40	25°♈59'53	1.72305 AU
	2969 Apr 17 12:58	0°♉	
	2969 May 11 18:29	0°♊	
evening rise	2969 May 19 06:17	9°♊14'18	
asc. node	2969 May 20 14:25	10°♊53'13	
	2969 Jun 05 03:38	0°♋	
	2969 Jun 29 16:28	0°♌	
	2969 Jul 24 09:39	0°♍	
	2969 Aug 18 09:09	0°♎	
desc. node	2969 Sep 09 04:00	25°♎46'54	
	2969 Sep 12 18:26	0°♏	
	2969 Oct 08 19:50	0°♐	
	2969 Nov 05 06:13	0°♑	
evening max el	2969 Nov 14 04:21	9°♑07'40	46°59'38
	2969 Dec 07 11:38	0°♒	
greatest brilliancy	2969 Dec 24 13:47	9°♒58'44	-4.9m
asc. node	2969 Dec 31 07:07	11°♒41'33	
retrograde	2970 Jan 03 16:52	11°♒55'30	
evening set	2970 Jan 18 16:47	7°♒25'51	
min. Earth dist.	2970 Jan 23 13:29	4°♒33'30	0.26648 AU
inferior conj	2970 Jan 24 05:51	4°♒08'25	5°45'11
minimum elong	2970 Jan 23 19:25	4°♒24'25	5°42'35
morning rise	2970 Jan 28 22:27	1°♒20'48	
	2970 Jan 31 10:49	30°℞♑	
direct	2970 Feb 13 16:08	26°♑29'13	
greatest brilliancy	2970 Feb 22 23:35	28°♑08'37	-4.9m
	2970 Feb 27 12:15	0°♒	
morning max el	2970 Apr 04 18:24	28°♒43'54	46°36'24
	2970 Apr 06 00:59	0°♓	
desc. node	2970 Apr 21 20:46	16°♓28'15	
	2970 May 04 05:11	0°♈	
	2970 May 30 13:53	0°♉	
	2970 Jun 25 04:59	0°♊	
	2970 Jul 20 10:01	0°♋	
asc. node	2970 Aug 12 23:57	28°♋26'13	
	2970 Aug 14 06:51	0°♌	
	2970 Sep 07 20:02	0°♍	
morning set	2970 Sep 30 15:44	28°♍11'33	
	2970 Oct 02 02:41	0°♎	
	2970 Oct 26 04:47	0°♏	
max. Earth dist.	2970 Nov 04 16:20	11°♏51'00	1.71780 AU
superior conj	2970 Nov 07 08:32	15°♏11'46	0°55'33
minimum elong	2970 Nov 07 18:44	15°♏43'40	0°55'10
	2970 Nov 19 04:17	0°♐	
desc. node	2970 Dec 02 13:40	16°♐47'08	
	2970 Dec 13 02:33	0°♑	
evening rise	2970 Dec 17 10:45	5°♑26'47	
	2971 Jan 06 00:30	0°♒	
	2971 Jan 29 23:23	0°♓	
	2971 Feb 23 01:35	0°♈	
	2971 Mar 19 10:43	0°♉	
asc. node	2971 Mar 25 16:41	7°♉36'19	
	2971 Apr 13 07:46	0°♊	
	2971 May 09 00:42	0°♋	
	2971 Jun 05 07:50	0°♌	
evening max el	2971 Jun 19 21:17	14°♌39'36	45°26'37
	2971 Jul 07 07:24	0°♍	
desc. node	2971 Jul 15 06:22	5°♍45'35	
greatest brilliancy	2971 Jul 28 03:57	12°♍26'31	-4.7m
retrograde	2971 Aug 07 11:04	14°♍20'15	
evening set	2971 Aug 24 19:24	8°♍42'16	
inferior conj	2971 Aug 28 21:42	6°♍11'32	-8°06'38
minimum elong	2971 Aug 28 15:10	6°♍21'45	8°05'59
min. Earth dist.	2971 Aug 29 02:38	6°♍03'50	0.28921 AU
morning rise	2971 Sep 01 10:49	4°♍00'08	
	2971 Sep 09 05:38	30°℞♌	
direct	2971 Sep 19 12:03	27°♌55'13	
greatest brilliancy	2971 Sep 30 05:08	0°♍00'20	-4.8m
	2971 Sep 30 04:46	0°♍	
asc. node	2971 Nov 05 09:18	26°♍38'17	
morning max el	2971 Nov 08 07:54	29°♍32'02	46°23'30
	2971 Nov 08 19:06	0°♎	
	2971 Dec 06 15:17	0°♏	
	2972 Jan 01 06:34	0°♐	
	2972 Jan 26 01:06	0°♑	
	2972 Feb 19 10:43	0°♒	
desc. node	2972 Feb 24 23:07	6°♒48'47	

	2972 Mar 14 16:49	0°♓	
	2972 Apr 07 22:13	0°♈	
	2972 May 02 04:35	0°♉	
morning set	2972 May 13 14:20	14°♉04'31	
	2972 May 26 12:32	0°♊	
asc. node	2972 Jun 17 02:20	26°♊32'47	
superior conj	2972 Jun 19 21:55	0°♋00'30	0°06'44
minimum elong	2972 Jun 19 20:30	29°♊56'07	0°06'41
behind sun begin	2972 Jun 18 23:36	28°♊51'54	
behind sun end	2972 Jun 20 17:23	1°♋00'21	
	2972 Jun 19 21:45	0°♋	
max. Earth dist.	2972 Jun 20 12:12	0°♋44'22	1.73478 AU
	2972 Jul 14 07:29	0°♌	
evening rise	2972 Jul 26 03:18	14°♌31'57	
	2972 Aug 07 17:20	0°♍	
	2972 Sep 01 03:50	0°♎	
	2972 Sep 25 16:05	0°♏	
desc. node	2972 Oct 06 15:54	13°♏24'42	
	2972 Oct 20 07:14	0°♐	
	2972 Nov 14 02:47	0°♑	
	2972 Dec 09 06:38	0°♒	
	2973 Jan 04 06:29	0°♓	
evening max el	2973 Jan 25 11:49	22°♓49'57	47°08'23
asc. node	2973 Jan 27 18:56	25°♓09'15	
	2973 Feb 01 17:11	0°♈	
greatest brilliancy	2973 Mar 06 22:52	24°♈14'44	-4.9m
retrograde	2973 Mar 17 06:23	26°♈15'37	
evening set	2973 Apr 03 21:52	20°♈14'34	
inferior conj	2973 Apr 07 07:43	18°♈07'12	8°06'59
minimum elong	2973 Apr 07 15:17	17°♈55'18	8°06'04
min. Earth dist.	2973 Apr 07 01:27	18°♈17'05	0.27977 AU
morning rise	2973 Apr 11 08:56	15°♈37'15	
direct	2973 Apr 28 06:29	10°♈07'06	
greatest brilliancy	2973 May 07 17:39	11°♈46'05	-4.8m
desc. node	2973 May 19 08:29	17°♈28'48	
	2973 Jun 04 20:51	0°♉	
morning max el	2973 Jun 16 07:50	10°♉29'46	45°53'25
	2973 Jul 05 13:20	0°♊	
	2973 Aug 01 20:37	0°♋	
	2973 Aug 27 19:58	0°♌	
asc. node	2973 Sep 09 11:47	14°♌59'25	
	2973 Sep 21 23:51	0°♍	
	2973 Oct 16 14:06	0°♎	
	2973 Nov 09 19:11	0°♏	
	2973 Dec 03 18:55	0°♐	
greatest brilliancy	2973 Dec 11 14:01	9°♐47'04	-3.9m
morning set	2973 Dec 11 19:30	10°♐04'15	
	2973 Dec 27 16:01	0°♑	
desc. node	2973 Dec 30 01:34	3°♑00'54	
	2974 Jan 20 12:15	0°♒	
superior conj	2974 Jan 22 01:56	1°♒58'34	-0°51'41
minimum elong	2974 Jan 21 14:29	1°♒22'30	0°51'13
max. Earth dist.	2974 Jan 22 23:38	3°♒06'49	1.71107 AU
	2974 Feb 13 08:53	0°♓	
evening rise	2974 Mar 04 04:38	23°♓36'02	
	2974 Mar 09 07:27	0°♈	
	2974 Apr 02 09:47	0°♉	
asc. node	2974 Apr 22 04:36	24°♉24'54	
	2974 Apr 26 17:52	0°♊	
	2974 May 21 09:37	0°♋	
	2974 Jun 15 11:44	0°♌	
	2974 Jul 11 05:40	0°♍	
	2974 Aug 07 04:25	0°♎	
desc. node	2974 Aug 11 18:08	4°♎52'37	
evening max el	2974 Aug 30 13:04	23°♎54'06	45°53'35
	2974 Sep 06 01:52	0°♏	
greatest brilliancy	2974 Oct 09 13:23	22°♏35'37	-4.8m
retrograde	2974 Oct 18 15:19	24°♏06'44	
evening set	2974 Nov 03 16:17	19°♏12'09	
inferior conj	2974 Nov 08 11:32	16°♏21'19	-5°42'42
minimum elong	2974 Nov 08 21:50	16°♏05'36	5°40'13
min. Earth dist.	2974 Nov 09 09:46	15°♏47'23	0.27288 AU
morning rise	2974 Nov 14 02:40	13°♏01'16	
direct	2974 Nov 29 07:57	8°♏26'45	
asc. node	2974 Dec 02 21:14	8°♏41'51	
greatest brilliancy	2974 Dec 10 11:30	10°♏46'42	-4.9m
	2975 Jan 06 21:22	0°♐	
morning max el	2975 Jan 19 02:00	11°♐49'08	46°57'32
	2975 Feb 05 03:41	0°♑	
	2975 Mar 03 10:40	0°♒	
desc. node	2975 Mar 24 11:02	24°♒51'42	
	2975 Mar 28 18:08	0°♓	
	2975 Apr 22 15:54	0°♈	
	2975 May 17 09:36	0°♉	
	2975 Jun 11 01:31	0°♊	
	2975 Jul 05 15:50	0°♋	
asc. node	2975 Jul 15 14:09	12°♋08'35	
morning set	2975 Jul 21 22:56	19°♋56'22	
	2975 Jul 30 03:43	0°♌	
	2975 Aug 23 12:30	0°♍	
max. Earth dist.	2975 Aug 24 17:23	1°♍29'11	1.73168 AU
superior conj	2975 Aug 27 08:56	4°♍45'26	1°19'17
minimum elong	2975 Aug 27 02:51	4°♍26'39	1°19'11
	2975 Sep 16 18:31	0°♎	
evening rise	2975 Oct 02 22:32	20°♎03'10	
	2975 Oct 10 22:53	0°♏	
desc. node	2975 Nov 04 03:53	0°♐03'29	
	2975 Nov 04 02:46	0°♐	
	2975 Nov 28 06:54	0°♑	
	2975 Dec 22 12:10	0°♒	
	2976 Jan 15 21:02	0°♓	
	2976 Feb 09 15:08	0°♈	
asc. node	2976 Feb 25 06:43	18°♈30'12	
	2976 Mar 06 05:51	0°♉	
	2976 Apr 02 20:39	0°♊	
evening max el	2976 Apr 06 22:31	4°♊05'22	46°09'24
	2976 May 08 18:42	0°♋	
greatest brilliancy	2976 May 15 09:16	3°♋07'44	-4.8m
retrograde	2976 May 26 10:56	5°♋21'51	
evening set	2976 Jun 10 12:01	0°♋55'49	
	2976 Jun 12 03:19	30°℞♊	
desc. node	2976 Jun 15 20:30	27°♊44'14	
inferior conj	2976 Jun 16 20:32	27°♊06'36	-0°14'19
minimum elong	2976 Jun 16 20:01	27°♊07'26	0°14'10
transit middle	2976 Jun 16 20:01	27°♊07'26	0°14'10
transit begin	2976 Jun 16 18:01	27°♊10'33	
transit end	2976 Jun 16 22:00	27°♊04'19	
min. Earth dist.	2976 Jun 16 16:33	27°♊12'51	0.28796 AU
morning rise	2976 Jun 23 04:22	23°♊19'04	
direct	2976 Jul 08 08:36	18°♊52'30	
greatest brilliancy	2976 Jul 18 12:42	20°♊44'28	-4.7m
	2976 Aug 04 06:51	0°♋	
morning max el	2976 Aug 26 03:37	18°♋38'02	45°46'00
	2976 Sep 06 14:09	0°♌	
	2976 Oct 04 04:39	0°♍	
asc. node	2976 Oct 06 23:38	3°♍10'43	
	2976 Oct 29 22:13	0°♎	
	2976 Nov 23 17:06	0°♏	
	2976 Dec 17 24:00	0°♐	
	2977 Jan 11 01:04	0°♑	
desc. node	2977 Jan 26 13:19	19°♑25'29	

	2977 Feb 03 23:47	0°♒	
morning set	2977 Feb 26 20:06	28°♒38'26	
	2977 Feb 27 22:08	0°♓	
	2977 Mar 23 21:40	0°♈	
superior conj	2977 Apr 08 00:52	18°♈52'01	-1°19'03
minimum elong	2977 Apr 08 08:58	19°♈17'13	1°18'54
max. Earth dist.	2977 Apr 11 23:23	23°♈46'06	1.72251 AU
	2977 Apr 16 23:43	0°♉	
	2977 May 11 05:13	0°♊	
evening rise	2977 May 16 21:55	7°♊01'34	
asc. node	2977 May 19 16:33	10°♊26'46	
	2977 Jun 04 14:26	0°♋	
	2977 Jun 29 03:28	0°♌	
	2977 Jul 23 21:03	0°♍	
	2977 Aug 17 21:15	0°♎	
desc. node	2977 Sep 08 05:58	25°♎14'25	
	2977 Sep 12 07:42	0°♏	
	2977 Oct 08 11:15	0°♐	
	2977 Nov 05 02:38	0°♑	
evening max el	2977 Nov 11 18:55	6°♑46'59	46°57'53
	2977 Dec 08 09:01	0°♒	
greatest brilliancy	2977 Dec 22 03:09	7°♒31'48	-4.9m
asc. node	2977 Dec 30 09:06	9°♒23'14	
retrograde	2978 Jan 01 05:39	9°♒27'23	
evening set	2978 Jan 16 02:34	5°♒02'37	
min. Earth dist.	2978 Jan 21 02:50	2°♒05'06	0.26616 AU
inferior conj	2978 Jan 21 18:22	1°♒41'17	5°26'10
minimum elong	2978 Jan 21 08:11	1°♒56'55	5°23'32
	2978 Jan 24 13:08	30°℞♑	
morning rise	2978 Jan 26 14:11	28°♑49'00	
direct	2978 Feb 11 04:45	24°♑02'41	
greatest brilliancy	2978 Feb 20 13:00	25°♑42'34	-4.9m
	2978 Mar 01 14:52	0°♒	
morning max el	2978 Apr 02 07:08	26°♒19'33	46°37'41
	2978 Apr 05 23:00	0°♓	
desc. node	2978 Apr 20 22:52	15°♓45'33	
	2978 May 03 21:04	0°♈	
	2978 May 30 03:22	0°♉	
	2978 Jun 24 17:12	0°♊	
	2978 Jul 19 21:29	0°♋	
asc. node	2978 Aug 12 01:54	27°♋58'39	
	2978 Aug 13 17:52	0°♌	
	2978 Sep 07 06:49	0°♍	
morning set	2978 Sep 28 07:58	25°♍59'50	
	2978 Oct 01 13:23	0°♎	
	2978 Oct 25 15:29	0°♏	
max. Earth dist.	2978 Nov 02 01:54	9°♏17'24	1.71823 AU
superior conj	2978 Nov 04 22:36	12°♏52'09	0°58'14
minimum elong	2978 Nov 05 08:50	13°♏24'10	0°57'51
	2978 Nov 18 15:03	0°♐	
desc. node	2978 Dec 01 15:48	16°♐20'00	
	2978 Dec 12 13:24	0°♑	
evening rise	2978 Dec 14 22:12	2°♑58'06	
	2979 Jan 05 11:27	0°♒	
	2979 Jan 29 10:30	0°♓	
	2979 Feb 22 12:57	0°♈	
	2979 Mar 18 22:31	0°♉	
asc. node	2979 Mar 24 18:43	7°♉06'16	
	2979 Apr 12 20:20	0°♊	
	2979 May 08 14:50	0°♋	
	2979 Jun 05 01:51	0°♌	
evening max el	2979 Jun 17 11:52	12°♌26'07	45°26'55
	2979 Jul 07 19:17	0°♍	
desc. node	2979 Jul 14 08:21	4°♍30'38	
greatest brilliancy	2979 Jul 25 18:46	10°♍15'47	-4.7m
retrograde	2979 Aug 05 02:04	12°♍10'16	
evening set	2979 Aug 22 08:03	6°♍36'29	
inferior conj	2979 Aug 26 13:36	4°♍01'06	-7°59'08
minimum elong	2979 Aug 26 06:29	4°♍12'13	7°58'21
min. Earth dist.	2979 Aug 26 18:04	3°♍54'07	0.28946 AU
morning rise	2979 Aug 30 04:45	1°♍46'29	
	2979 Sep 02 06:59	30°℞♌	
direct	2979 Sep 17 03:37	25°♌44'20	
greatest brilliancy	2979 Sep 27 21:14	27°♌49'18	-4.8m
	2979 Oct 02 19:41	0°♍	
asc. node	2979 Nov 04 11:29	25°♍48'13	
morning max el	2979 Nov 05 21:56	27°♍13'21	46°22'01
	2979 Nov 08 16:18	0°♎	
	2979 Dec 06 06:48	0°♏	
	2979 Dec 31 19:59	0°♐	
	2980 Jan 25 13:27	0°♑	
	2980 Feb 18 22:27	0°♒	
desc. node	2980 Feb 24 01:08	6°♒19'05	
	2980 Mar 14 04:07	0°♓	
	2980 Apr 07 09:15	0°♈	
	2980 May 01 15:24	0°♉	
morning set	2980 May 11 06:24	11°♉52'58	
	2980 May 25 23:12	0°♊	
asc. node	2980 Jun 16 04:21	26°♊06'25	
superior conj	2980 Jun 17 15:23	27°♊54'05	0°03'31
minimum elong	2980 Jun 17 14:37	27°♊51'46	0°03'29
behind sun begin	2980 Jun 16 16:13	26°♊42'53	
behind sun end	2980 Jun 18 13:02	29°♊00'38	
max. Earth dist.	2980 Jun 18 06:51	28°♊41'40	1.73462 AU
	2980 Jun 19 08:20	0°♋	
	2980 Jul 13 18:05	0°♌	
evening rise	2980 Jul 23 21:54	12°♌28'57	
	2980 Aug 07 04:05	0°♍	
	2980 Aug 31 14:51	0°♎	
	2980 Sep 25 03:31	0°♏	
desc. node	2980 Oct 05 18:01	12°♏55'35	
	2980 Oct 19 19:16	0°♐	
	2980 Nov 13 15:40	0°♑	
	2980 Dec 08 20:55	0°♒	
	2981 Jan 03 23:33	0°♓	
evening max el	2981 Jan 23 01:22	20°♓26'26	47°09'44
asc. node	2981 Jan 26 20:56	24°♓16'44	
	2981 Feb 01 18:51	0°♈	
greatest brilliancy	2981 Mar 04 14:37	21°♈57'10	-4.9m
retrograde	2981 Mar 14 21:22	23°♈57'58	
evening set	2981 Apr 01 15:15	17°♈53'15	
inferior conj	2981 Apr 04 22:37	15°♈49'56	8°15'31
minimum elong	2981 Apr 05 05:35	15°♈38'58	8°14'46
min. Earth dist.	2981 Apr 04 15:53	16°♈00'31	0.27939 AU
morning rise	2981 Apr 08 20:07	13°♈25'38	
direct	2981 Apr 25 20:14	7°♈50'13	
greatest brilliancy	2981 May 05 07:41	9°♈29'25	-4.8m
desc. node	2981 May 18 10:38	16°♈09'48	
	2981 Jun 05 00:58	0°♉	
morning max el	2981 Jun 13 22:53	8°♉16'08	45°54'28
	2981 Jul 05 06:25	0°♊	
	2981 Aug 01 10:27	0°♋	
	2981 Aug 27 08:20	0°♌	
asc. node	2981 Sep 08 13:50	14°♌29'56	
	2981 Sep 21 11:29	0°♍	
	2981 Oct 16 01:20	0°♎	
	2981 Nov 09 06:14	0°♏	
	2981 Dec 03 05:53	0°♐	
morning set	2981 Dec 09 07:11	7°♐35'47	
	2981 Dec 27 02:59	0°♑	
desc. node	2981 Dec 29 03:29	2°♑32'28	

superior conj	2982 Jan 19	11:41	29°♑23'42	-0°48'23
minimum elong	2982 Jan 19	00:37	28°♑48'52	0°47'56
	2982 Jan 19	23:13	0°♒	
max. Earth dist.	2982 Jan 20	05:33	0°♒19'53	1.71099 AU
	2982 Feb 12	19:51	0°♓	
evening rise	2982 Mar 01	15:27	21°♓05'31	
	2982 Mar 08	18:24	0°♈	
	2982 Apr 01	20:47	0°♉	
asc. node	2982 Apr 21	06:45	23°♉57'21	
	2982 Apr 26	05:02	0°♊	
	2982 May 20	21:11	0°♋	
	2982 Jun 15	00:04	0°♌	
	2982 Jul 10	19:27	0°♍	
	2982 Aug 06	21:24	0°♎	
desc. node	2982 Aug 10	20:09	4°♎10'55	
evening max el	2982 Aug 28	03:33	21°♎38'18	45°51'41
	2982 Sep 06	05:18	0°♏	
greatest brilliancy	2982 Oct 07	01:28	20°♏13'44	-4.8m
retrograde	2982 Oct 16	04:45	21°♏45'31	
evening set	2982 Nov 01	08:38	16°♏46'00	
inferior conj	2982 Nov 06	00:53	13°♏59'07	-5°59'29
minimum elong	2982 Nov 06	11:19	13°♏43'11	5°57'05
min. Earth dist.	2982 Nov 06	23:14	13°♏25'00	0.27357 AU
morning rise	2982 Nov 11	13:24	10°♏42'48	
direct	2982 Nov 26	22:39	6°♏03'34	
asc. node	2982 Dec 01	23:13	6°♏33'31	
greatest brilliancy	2982 Dec 08	01:47	8°♏23'35	-4.9m
	2983 Jan 07	01:29	0°♐	
morning max el	2983 Jan 16	17:22	9°♐28'46	46°57'05
	2983 Feb 04	21:31	0°♑	
	2983 Mar 03	01:19	0°♒	
desc. node	2983 Mar 23	13:05	24°♒18'05	
	2983 Mar 28	07:14	0°♓	
	2983 Apr 22	04:03	0°♈	
	2983 May 16	21:07	0°♉	
	2983 Jun 10	12:37	0°♊	
	2983 Jul 05	02:41	0°♋	
asc. node	2983 Jul 14	16:06	11°♋41'34	
morning set	2983 Jul 19	17:07	17°♋52'06	
	2983 Jul 29	14:27	0°♌	
max. Earth dist.	2983 Aug 22	13:46	29°♌30'51	1.73204 AU
	2983 Aug 22	23:13	0°♍	
superior conj	2983 Aug 25	03:06	2°♍40'07	1°18'05
minimum elong	2983 Aug 24	20:33	2°♍19'56	1°17'58
	2983 Sep 16	05:19	0°♎	
evening rise	2983 Sep 30	14:43	17°♎50'36	
	2983 Oct 10	09:52	0°♏	
desc. node	2983 Nov 03	05:57	29°♏35'02	
	2983 Nov 03	14:00	0°♐	
	2983 Nov 27	18:28	0°♑	
	2983 Dec 22	00:09	0°♒	
	2984 Jan 15	09:36	0°♓	
	2984 Feb 09	04:39	0°♈	
asc. node	2984 Feb 24	08:48	17°♈53'55	
	2984 Mar 05	21:19	0°♉	
	2984 Apr 02	17:26	0°♊	
evening max el	2984 Apr 04	15:12	1°♊54'00	46°11'45
	2984 May 10	18:13	0°♋	
greatest brilliancy	2984 May 13	02:10	0°♋58'18	-4.8m
retrograde	2984 May 24	03:46	3°♋12'00	
	2984 Jun 05	19:55	30°℞♊	
evening set	2984 Jun 08	05:13	28°♊45'21	
inferior conj	2984 Jun 14	12:53	24°♊56'55	0°05'40
minimum elong	2984 Jun 14	13:05	24°♊56'35	0°05'36
transit middle	2984 Jun 14	13:05	24°♊56'35	0°05'36
transit begin	2984 Jun 14	09:17	25°♊02'33	
transit end	2984 Jun 14	16:54	24°♊50'37	
min. Earth dist.	2984 Jun 14	08:50	25°♊03'16	0.28770 AU
desc. node	2984 Jun 14	22:22	24°♊42'02	
morning rise	2984 Jun 20	21:24	21°♊08'24	
direct	2984 Jul 06	01:09	16°♊43'25	
greatest brilliancy	2984 Jul 16	03:38	18°♊34'09	-4.7m
	2984 Aug 04	20:41	0°♋	
morning max el	2984 Aug 23	19:34	16°♋28'21	45°45'16
	2984 Sep 06	08:36	0°♌	
	2984 Oct 03	19:05	0°♍	
asc. node	2984 Oct 06	01:46	2°♍36'06	
	2984 Oct 29	11:05	0°♎	
	2984 Nov 23	05:13	0°♏	
	2984 Dec 17	11:43	0°♐	
	2985 Jan 10	12:33	0°♑	
desc. node	2985 Jan 25	15:19	18°♑56'12	
	2985 Feb 03	11:06	0°♒	
morning set	2985 Feb 24	06:24	26°♒05'19	
	2985 Feb 27	09:19	0°♓	
	2985 Mar 23	08:45	0°♈	
superior conj	2985 Apr 05	13:55	16°♈28'51	-1°20'29
minimum elong	2985 Apr 05	21:25	16°♈52'12	1°20'21
max. Earth dist.	2985 Apr 09	15:12	21°♈31'38	1.72195 AU
	2985 Apr 16	10:44	0°♉	
	2985 May 10	16:13	0°♊	
evening rise	2985 May 14	13:30	4°♊47'47	
asc. node	2985 May 18	18:34	9°♊59'08	
	2985 Jun 04	01:29	0°♋	
	2985 Jun 28	14:41	0°♌	
	2985 Jul 23	08:40	0°♍	
	2985 Aug 17	09:36	0°♎	
desc. node	2985 Sep 07	08:05	24°♎41'26	
	2985 Sep 11	21:21	0°♏	
	2985 Oct 08	03:16	0°♐	
	2985 Nov 05	00:16	0°♑	
evening max el	2985 Nov 09	08:38	4°♑22'55	46°55'50
	2985 Dec 09	15:27	0°♒	
greatest brilliancy	2985 Dec 19	16:54	5°♒03'33	-4.9m
asc. node	2985 Dec 29	11:05	6°♒57'19	
retrograde	2985 Dec 29	17:37	6°♒57'25	
evening set	2986 Jan 13	12:20	2°♒37'10	
	2986 Jan 17	23:41	30°℞♑	
min. Earth dist.	2986 Jan 18	16:27	29°♑34'21	0.26587 AU
inferior conj	2986 Jan 19	06:43	29°♑12'27	5°06'26
minimum elong	2986 Jan 18	20:50	29°♑27'37	5°03'47
morning rise	2986 Jan 24	05:39	26°♑15'32	
direct	2986 Feb 08	16:43	21°♑34'12	
greatest brilliancy	2986 Feb 18	02:54	23°♑15'22	-4.9m
	2986 Mar 03	01:20	0°♒	
morning max el	2986 Mar 30	19:00	23°♒51'36	46°39'07
	2986 Apr 05	20:39	0°♓	
desc. node	2986 Apr 20	00:59	15°♓02'23	
	2986 May 03	13:05	0°♈	
	2986 May 29	17:05	0°♉	
	2986 Jun 24	05:41	0°♊	
	2986 Jul 19	09:13	0°♋	
asc. node	2986 Aug 11	04:02	27°♋30'52	
	2986 Aug 13	05:08	0°♌	
	2986 Sep 06	17:50	0°♍	
morning set	2986 Sep 26	00:33	23°♍48'29	
	2986 Oct 01	00:21	0°♎	
	2986 Oct 25	02:30	0°♏	
max. Earth dist.	2986 Oct 30	14:17	6°♏51'40	1.71877 AU
superior conj	2986 Nov 02	12:56	10°♏32'25	1°00'47
minimum elong	2986 Nov 02	23:08	11°♏04'20	1°00'26

	2986 Nov 18 02:10	0°♐	
desc. node	2986 Nov 30 17:46	15°♐51'05	
evening rise	2986 Dec 12 09:37	0°♑28'05	
	2986 Dec 12 00:39	0°♑	
	2987 Jan 04 22:50	0°♒	
	2987 Jan 28 22:04	0°♓	
	2987 Feb 22 00:46	0°♈	
	2987 Mar 18 10:45	0°♉	
asc. node	2987 Mar 23 20:49	6°♉35'09	
	2987 Apr 12 09:22	0°♊	
	2987 May 08 05:31	0°♋	
	2987 Jun 04 20:43	0°♌	
evening max el	2987 Jun 15 02:29	10°♌11'48	45°27'27
	2987 Jul 08 11:41	0°♍	
desc. node	2987 Jul 13 10:25	3°♍12'57	
greatest brilliancy	2987 Jul 23 09:19	8°♍04'19	-4.7m
retrograde	2987 Aug 02 17:46	10°♍00'24	
evening set	2987 Aug 19 20:53	4°♍30'37	
inferior conj	2987 Aug 24 05:44	1°♍50'37	-7°51'01
minimum elong	2987 Aug 23 22:04	2°♍02'34	7°50'06
min. Earth dist.	2987 Aug 24 09:31	1°♍44'43	0.28967 AU
	2987 Aug 27 05:06	30℞♌	
morning rise	2987 Aug 27 23:04	29°♌32'49	
direct	2987 Sep 14 19:27	23°♌33'28	
greatest brilliancy	2987 Sep 25 13:37	25°♌38'43	-4.8m
	2987 Oct 04 10:48	0°♍	
morning max el	2987 Nov 03 12:43	24°♍56'16	46°20'28
asc. node	2987 Nov 03 13:27	24°♍58'07	
	2987 Nov 08 12:58	0°♎	
	2987 Dec 05 22:20	0°♏	
	2987 Dec 31 09:37	0°♐	
	2988 Jan 25 02:09	0°♑	
	2988 Feb 18 10:34	0°♒	
desc. node	2988 Feb 23 03:17	5°♒48'29	
	2988 Mar 13 15:52	0°♓	
	2988 Apr 06 20:41	0°♈	
	2988 May 01 02:35	0°♉	
morning set	2988 May 08 22:03	9°♉38'52	
	2988 May 25 10:13	0°♊	
superior conj	2988 Jun 15 08:37	25°♊45'57	0°00'14
minimum elong	2988 Jun 15 08:35	25°♊45'49	0°00'13
behind sun begin	2988 Jun 14 09:51	24°♊35'55	
behind sun end	2988 Jun 16 07:19	26°♊55'43	
asc. node	2988 Jun 15 06:18	25°♊38'47	
max. Earth dist.	2988 Jun 16 01:57	26°♊39'13	1.73442 AU
	2988 Jun 18 19:16	0°♋	
	2988 Jul 13 05:02	0°♌	
evening rise	2988 Jul 21 16:39	10°♌25'23	
	2988 Aug 06 15:09	0°♍	
	2988 Aug 31 02:10	0°♎	
	2988 Sep 24 15:13	0°♏	
desc. node	2988 Oct 04 20:05	12°♏25'37	
	2988 Oct 19 07:33	0°♐	
	2988 Nov 13 04:52	0°♑	
	2988 Dec 08 11:38	0°♒	
	2989 Jan 03 17:23	0°♓	
evening max el	2989 Jan 20 15:30	18°♓03'07	47°10'44
asc. node	2989 Jan 25 23:01	23°♓21'58	
	2989 Feb 01 22:41	0°♈	
greatest brilliancy	2989 Mar 02 05:26	19°♈36'10	-4.9m
retrograde	2989 Mar 12 12:26	21°♈37'33	
evening set	2989 Mar 30 08:03	15°♈29'17	
min. Earth dist.	2989 Apr 02 05:37	13°♈41'28	0.27902 AU
inferior conj	2989 Apr 02 13:04	13°♈29'47	8°23'23
minimum elong	2989 Apr 02 19:25	13°♈19'52	8°22'46
morning rise	2989 Apr 06 06:57	11°♈11'14	
direct	2989 Apr 23 10:02	5°♈30'34	
greatest brilliancy	2989 May 02 20:57	7°♈09'46	-4.8m
desc. node	2989 May 17 12:33	14°♈51'05	
	2989 Jun 05 04:04	0°♉	
morning max el	2989 Jun 11 14:18	6°♉02'01	45°55'41
	2989 Jul 04 23:32	0°♊	
	2989 Aug 01 00:27	0°♋	
	2989 Aug 26 20:54	0°♌	
asc. node	2989 Sep 07 15:54	13°♌59'50	
	2989 Sep 20 23:17	0°♍	
	2989 Oct 15 12:44	0°♎	
	2989 Nov 08 17:26	0°♏	
	2989 Dec 02 16:59	0°♐	
morning set	2989 Dec 06 19:38	5°♐09'24	
	2989 Dec 26 14:04	0°♑	
desc. node	2989 Dec 28 05:32	2°♑04'06	
superior conj	2990 Jan 16 21:46	26°♑49'29	-0°45'01
minimum elong	2990 Jan 16 11:12	26°♑16'13	0°44'34
max. Earth dist.	2990 Jan 17 14:45	27°♑42'55	1.71099 AU
	2990 Jan 19 10:19	0°♒	
	2990 Feb 12 06:59	0°♓	
evening rise	2990 Feb 27 02:15	18°♓34'07	
	2990 Mar 08 05:34	0°♈	
	2990 Apr 01 08:03	0°♉	
asc. node	2990 Apr 20 08:41	23°♉28'10	
	2990 Apr 25 16:30	0°♊	
	2990 May 20 09:03	0°♋	
	2990 Jun 14 12:42	0°♌	
	2990 Jul 10 09:37	0°♍	
	2990 Aug 06 14:59	0°♎	
desc. node	2990 Aug 09 22:15	3°♎28'25	
evening max el	2990 Aug 25 18:27	19°♎23'08	45°49'51
	2990 Sep 06 10:44	0°♏	
greatest brilliancy	2990 Oct 04 13:56	17°♏52'26	-4.8m
retrograde	2990 Oct 13 18:06	19°♏24'24	
evening set	2990 Oct 30 01:10	14°♏20'19	
inferior conj	2990 Nov 03 14:23	11°♏37'18	-6°15'36
minimum elong	2990 Nov 04 00:51	11°♏21'18	6°13'18
min. Earth dist.	2990 Nov 04 12:44	11°♏03'08	0.27421 AU
morning rise	2990 Nov 09 00:01	8°♏24'49	
direct	2990 Nov 24 13:29	3°♏41'02	
asc. node	2990 Dec 01 01:11	4°♏30'28	
greatest brilliancy	2990 Dec 05 15:48	6°♏00'25	-4.9m
	2991 Jan 07 03:52	0°♐	
morning max el	2991 Jan 14 07:56	7°♐06'40	46°56'36
	2991 Feb 04 14:53	0°♑	
	2991 Mar 02 15:45	0°♒	
desc. node	2991 Mar 22 15:09	23°♒44'41	
	2991 Mar 27 20:15	0°♓	
	2991 Apr 21 16:13	0°♈	
	2991 May 16 08:44	0°♉	
	2991 Jun 09 23:51	0°♊	
	2991 Jul 04 13:39	0°♋	
asc. node	2991 Jul 13 18:15	11°♋14'49	
morning set	2991 Jul 17 10:53	15°♋46'13	
	2991 Jul 29 01:15	0°♌	
max. Earth dist.	2991 Aug 20 08:44	27°♌28'02	1.73234 AU
	2991 Aug 22 09:59	0°♍	
superior conj	2991 Aug 22 20:58	0°♍33'54	1°16'46
minimum elong	2991 Aug 22 14:01	0°♍12'26	1°16'37
	2991 Sep 15 16:09	0°♎	
evening rise	2991 Sep 28 06:50	15°♎37'49	
	2991 Oct 09 20:53	0°♏	
desc. node	2991 Nov 02 07:53	29°♏06'04	
	2991 Nov 03 01:16	0°♐	

	2991 Nov 27 06:01	0°♉	
	2991 Dec 21 12:04	0°♒	
	2992 Jan 14 22:03	0°♓	
	2992 Feb 08 18:05	0°♈	
asc. node	2992 Feb 23 10:52	17°♈17'55	
	2992 Mar 05 12:50	0°♉	
evening max el	2992 Apr 02 06:59	29°♉40'31	46°13'48
	2992 Apr 02 14:52	0°♊	
greatest brilliancy	2992 May 10 19:26	28°♊48'53	-4.8m
	2992 May 14 10:24	0°♋	
retrograde	2992 May 21 19:51	1°♋01'26	
	2992 May 28 23:13	30°℞♊	
evening set	2992 Jun 05 22:23	26°♊34'01	
inferior conj	2992 Jun 12 05:02	22°♊46'39	0°25'53
minimum elong	2992 Jun 12 06:00	22°♊45'09	0°25'37
min. Earth dist.	2992 Jun 12 01:17	22°♊52'33	0.28747 AU
desc. node	2992 Jun 14 00:28	21°♊38'41	
morning rise	2992 Jun 18 14:04	18°♊57'08	
direct	2992 Jul 03 17:14	14°♊33'40	
greatest brilliancy	2992 Jul 13 18:54	16°♊23'33	-4.7m
	2992 Aug 05 07:06	0°♋	
morning max el	2992 Aug 21 10:27	14°♋15'55	45°44'40
	2992 Sep 06 02:35	0°♌	
	2992 Oct 03 09:18	0°♍	
asc. node	2992 Oct 05 03:46	2°♍01'34	
	2992 Oct 28 23:44	0°♎	
	2992 Nov 22 17:08	0°♏	
	2992 Dec 16 23:15	0°♐	
	2993 Jan 09 23:51	0°♑	
desc. node	2993 Jan 24 17:26	18°♑27'53	
	2993 Feb 02 22:12	0°♒	
morning set	2993 Feb 21 16:57	23°♒33'37	
	2993 Feb 26 20:15	0°♓	
	2993 Mar 22 19:33	0°♈	
superior conj	2993 Apr 03 03:13	14°♈07'14	-1°21'46
minimum elong	2993 Apr 03 10:02	14°♈28'28	1°21'39
max. Earth dist.	2993 Apr 07 07:16	19°♈18'45	1.72139 AU
	2993 Apr 15 21:29	0°♉	
	2993 May 10 02:58	0°♊	
evening rise	2993 May 12 05:04	2°♊34'34	
asc. node	2993 May 17 20:32	9°♊32'04	
	2993 Jun 03 12:19	0°♋	
	2993 Jun 28 01:45	0°♌	
	2993 Jul 22 20:11	0°♍	
	2993 Aug 16 21:53	0°♎	
desc. node	2993 Sep 06 10:07	24°♎08'36	
	2993 Sep 11 10:56	0°♏	
	2993 Oct 07 19:21	0°♐	
	2993 Nov 04 22:27	0°♑	
evening max el	2993 Nov 06 21:12	1°♑56'46	46°53'50
	2993 Dec 11 10:58	0°♒	
greatest brilliancy	2993 Dec 17 06:44	2°♒36'03	-4.9m
retrograde	2993 Dec 27 05:23	4°♒28'22	
asc. node	2993 Dec 28 13:15	4°♒26'14	
evening set	2994 Jan 10 22:15	0°♒11'53	
	2994 Jan 11 06:57	30°℞♑	
inferior conj	2994 Jan 16 19:01	26°♑44'23	4°45'58
minimum elong	2994 Jan 16 09:33	26°♑58'55	4°43'20
min. Earth dist.	2994 Jan 16 06:14	27°♑04'00	0.26560 AU
morning rise	2994 Jan 21 21:01	23°♑43'06	
direct	2994 Feb 06 04:19	19°♑06'14	
greatest brilliancy	2994 Feb 15 17:11	20°♑49'25	-4.9m
	2994 Mar 04 01:32	0°♒	
morning max el	2994 Mar 28 07:01	21°♒24'54	46°40'44
	2994 Apr 05 17:08	0°♓	
desc. node	2994 Apr 19 02:54	14°♓20'27	
	2994 May 03 04:24	0°♈	
	2994 May 29 06:15	0°♉	
	2994 Jun 23 17:44	0°♊	
	2994 Jul 18 20:35	0°♋	
asc. node	2994 Aug 10 06:04	27°♋03'37	
	2994 Aug 12 16:07	0°♌	
	2994 Sep 06 04:37	0°♍	
morning set	2994 Sep 23 16:56	21°♍37'19	
	2994 Sep 30 11:03	0°♎	
	2994 Oct 24 13:13	0°♏	
max. Earth dist.	2994 Oct 28 04:52	4°♏33'44	1.71926 AU
superior conj	2994 Oct 31 03:07	8°♏13'11	1°03'14
minimum elong	2994 Oct 31 13:14	8°♏44'49	1°02'54
	2994 Nov 17 12:58	0°♐	
desc. node	2994 Nov 29 19:49	15°♐23'28	
evening rise	2994 Dec 09 21:02	27°♐59'14	
	2994 Dec 11 11:34	0°♑	
	2995 Jan 04 09:55	0°♒	
	2995 Jan 28 09:19	0°♓	
	2995 Feb 21 12:16	0°♈	
	2995 Mar 17 22:38	0°♉	
asc. node	2995 Mar 22 22:47	6°♉04'39	
	2995 Apr 11 22:02	0°♊	
	2995 May 07 19:52	0°♋	
	2995 Jun 04 15:33	0°♌	
evening max el	2995 Jun 12 17:26	7°♌59'44	45°27'58
	2995 Jul 09 09:05	0°♍	
desc. node	2995 Jul 12 12:30	1°♍54'06	
greatest brilliancy	2995 Jul 20 23:12	5°♍53'14	-4.7m
retrograde	2995 Jul 31 09:56	7°♍51'29	
evening set	2995 Aug 17 09:35	2°♍25'36	
	2995 Aug 21 09:30	30°℞♌	
inferior conj	2995 Aug 21 21:46	29°♌40'54	-7°42'12
minimum elong	2995 Aug 21 13:38	29°♌53'33	7°41'08
min. Earth dist.	2995 Aug 22 00:36	29°♌36'28	0.28991 AU
morning rise	2995 Aug 25 17:31	27°♌19'42	
direct	2995 Sep 12 11:34	21°♌23'18	
greatest brilliancy	2995 Sep 23 05:40	23°♌28'36	-4.8m
	2995 Oct 05 13:36	0°♍	
morning max el	2995 Nov 01 04:23	22°♍42'22	46°18'55
asc. node	2995 Nov 02 15:27	24°♍09'39	
	2995 Nov 08 08:42	0°♎	
	2995 Dec 05 13:21	0°♏	
	2995 Dec 30 22:48	0°♐	
	2996 Jan 24 14:24	0°♑	
	2996 Feb 17 22:16	0°♒	
desc. node	2996 Feb 22 05:14	5°♒18'37	
	2996 Mar 13 03:11	0°♓	
	2996 Apr 06 07:43	0°♈	
	2996 Apr 30 13:22	0°♉	
morning set	2996 May 06 13:48	7°♉26'10	
	2996 May 24 20:48	0°♊	
superior conj	2996 Jun 13 02:03	23°♊39'38	-0°03'03
minimum elong	2996 Jun 13 02:41	23°♊41'35	0°03'01
behind sun begin	2996 Jun 12 04:03	22°♊31'58	
behind sun end	2996 Jun 14 01:19	24°♊51'11	
max. Earth dist.	2996 Jun 13 22:58	24°♊43'59	1.73421 AU
asc. node	2996 Jun 14 08:27	25°♊13'08	
	2996 Jun 18 05:46	0°♋	
	2996 Jul 12 15:33	0°♌	
evening rise	2996 Jul 19 11:36	8°♌23'51	
	2996 Aug 06 01:50	0°♍	
	2996 Aug 30 13:08	0°♎	
	2996 Sep 24 02:38	0°♏	
desc. node	2996 Oct 03 22:01	11°♏55'59	

	2996 Oct 18 19:37	0°♐	
	2996 Nov 12 17:53	0°♑	
	2996 Dec 08 02:14	0°♒	
	2997 Jan 03 11:15	0°♓	
evening max el	2997 Jan 18 06:29	15°♓42'58	47°11'49
asc. node	2997 Jan 25 01:04	22°♓27'10	
	2997 Feb 02 03:53	0°♈	
greatest brilliancy	2997 Feb 27 19:45	17°♈15'42	-4.9m
retrograde	2997 Mar 10 03:50	19°♈18'02	
evening set	2997 Mar 28 00:40	13°♈06'33	
inferior conj	2997 Mar 31 03:30	11°♈10'31	8°30'29
minimum elong	2997 Mar 31 09:10	11°♈01'38	8°29'59
min. Earth dist.	2997 Mar 30 18:57	11°♈23'52	0.27861 AU
morning rise	2997 Apr 03 17:52	8°♈57'31	
direct	2997 Apr 21 00:19	3°♈12'01	
greatest brilliancy	2997 Apr 30 09:37	4°♈50'27	-4.8m
desc. node	2997 May 16 14:38	13°♈36'18	
	2997 Jun 05 05:10	0°♉	
morning max el	2997 Jun 09 06:03	3°♉49'55	45°56'56
	2997 Jul 04 15:51	0°♊	
	2997 Jul 31 13:52	0°♋	
	2997 Aug 26 08:59	0°♌	
asc. node	2997 Sep 06 17:52	13°♌30'49	
	2997 Sep 20 10:42	0°♍	
	2997 Oct 14 23:49	0°♎	
	2997 Nov 08 04:21	0°♏	
	2997 Dec 02 03:52	0°♐	
morning set	2997 Dec 04 07:53	2°♐43'06	
	2997 Dec 26 00:57	0°♑	
desc. node	2997 Dec 27 07:41	1°♑36'38	
superior conj	2998 Jan 14 07:29	24°♑14'46	-0°41'31
minimum elong	2998 Jan 13 21:30	23°♑43'22	0°41'04
max. Earth dist.	2998 Jan 14 22:52	25°♑03'10	1.71093 AU
	2998 Jan 18 21:13	0°♒	
	2998 Feb 11 17:52	0°♓	
evening rise	2998 Feb 24 12:41	16°♓02'24	
	2998 Mar 07 16:28	0°♈	
	2998 Mar 31 19:01	0°♉	
asc. node	2998 Apr 19 10:44	23°♉00'16	
	2998 Apr 25 03:42	0°♊	
	2998 May 19 20:40	0°♋	
	2998 Jun 14 01:05	0°♌	
	2998 Jul 09 23:32	0°♍	
	2998 Aug 06 08:30	0°♎	
desc. node	2998 Aug 09 00:16	2°♎46'22	
evening max el	2998 Aug 23 09:04	17°♎08'30	45°47'56
	2998 Sep 06 17:47	0°♏	
greatest brilliancy	2998 Oct 02 02:50	15°♏33'03	-4.8m
retrograde	2998 Oct 11 06:57	17°♏04'38	
evening set	2998 Oct 27 17:49	11°♏56'02	
inferior conj	2998 Nov 01 04:02	9°♏16'53	-6°30'54
minimum elong	2998 Nov 01 14:27	9°♏00'54	6°28'42
min. Earth dist.	2998 Nov 02 02:30	8°♏42'25	0.27492 AU
morning rise	2998 Nov 06 10:37	6°♏08'12	
direct	2998 Nov 22 04:11	1°♏19'44	
asc. node	2998 Nov 30 03:21	2°♏33'10	
greatest brilliancy	2998 Dec 03 06:12	3°♏38'29	-4.9m
	2999 Jan 07 04:49	0°♐	
morning max el	2999 Jan 11 21:41	4°♐42'39	46°55'57
	2999 Feb 04 07:52	0°♑	
	2999 Mar 02 05:59	0°♒	
desc. node	2999 Mar 21 17:08	23°♒11'33	
	2999 Mar 27 09:04	0°♓	
	2999 Apr 21 04:10	0°♈	
	2999 May 15 20:07	0°♉	
	2999 Jun 09 10:51	0°♊	
	2999 Jul 04 00:24	0°♋	
asc. node	2999 Jul 12 20:15	10°♋48'17	
morning set	2999 Jul 15 04:54	13°♋41'45	
	2999 Jul 28 11:52	0°♌	
max. Earth dist.	2999 Aug 18 02:57	25°♌23'38	1.73263 AU
superior conj	2999 Aug 20 15:20	28°♌29'52	1°15'22
minimum elong	2999 Aug 20 07:59	28°♌07'12	1°15'11
	2999 Aug 21 20:33	0°♍	
	2999 Sep 15 02:48	0°♎	
evening rise	2999 Sep 25 23:32	13°♎27'33	
	2999 Oct 09 07:42	0°♏	
desc. node	2999 Nov 01 10:01	28°♏38'18	
	2999 Nov 02 12:23	0°♐	
	2999 Nov 26 17:29	0°♑	
	2999 Dec 20 23:59	0°♒	
	3000 Jan 14 10:36	0°♓	
	3000 Feb 08 07:42	0°♈	
asc. node	3000 Feb 22 12:50	16°♈41'08	
	3000 Mar 06 04:40	0°♉	
evening max el	3000 Mar 31 21:47	27°♉24'19	46°16'06
	3000 Apr 03 13:09	0°♊	
greatest brilliancy	3000 May 09 13:06	26°♊40'00	-4.8m
retrograde	3000 May 20 11:46	28°♊51'19	
evening set	3000 Jun 04 15:46	24°♊22'42	
inferior conj	3000 Jun 10 21:19	20°♊36'49	0°46'05
minimum elong	3000 Jun 10 23:00	20°♊34'09	0°45'34
min. Earth dist.	3000 Jun 10 18:05	20°♊41'55	0.28721 AU
desc. node	3000 Jun 14 02:36	18°♊36'41	
morning rise	3000 Jun 17 06:38	16°♊46'30	
direct	3000 Jul 02 08:56	12°♊24'13	
greatest brilliancy	3000 Jul 12 10:44	14°♊13'52	-4.7m
	3000 Aug 06 14:35	0°♋	
morning max el	3000 Aug 20 01:00	12°♋02'56	45°44'16
	3000 Sep 06 20:01	0°♌	
	3000 Oct 03 23:14	0°♍	
asc. node	3000 Oct 05 05:45	1°♍27'34	
	3000 Oct 29 12:14	0°♎	
	3000 Nov 23 04:57	0°♏	
	3000 Dec 17 10:43	0°♐	
	3001 Jan 10 11:07	0°♑	
desc. node	3001 Jan 24 19:25	17°♑59'02	
	3001 Feb 03 09:20	0°♒	
morning set	3001 Feb 20 03:00	20°♒59'54	
	3001 Feb 27 07:18	0°♓	
	3001 Mar 23 06:32	0°♈	
superior conj	3001 Apr 01 15:57	11°♈43'18	-1°22'54
minimum elong	3001 Apr 01 22:00	12°♈02'10	1°22'49
max. Earth dist.	3001 Apr 05 19:53	16°♈54'37	1.72080 AU
	3001 Apr 16 08:23	0°♉	
evening rise	3001 May 10 20:03	0°♊19'11	
	3001 May 10 13:50	0°♊	
asc. node	3001 May 17 22:40	9°♊05'06	
	3001 Jun 03 23:16	0°♋	
	3001 Jun 28 12:56	0°♌	
	3001 Jul 23 07:49	0°♍	
	3001 Aug 17 10:18	0°♎	
desc. node	3001 Sep 06 12:05	23°♎35'15	
	3001 Sep 12 00:43	0°♏	
	3001 Oct 08 11:43	0°♐	
evening max el	3001 Nov 05 09:30	29°♐30'22	46°51'55
	3001 Nov 05 21:29	0°♑	
	3001 Dec 15 10:50	0°♒	
greatest brilliancy	3001 Dec 15 20:16	0°♒08'38	-4.9m
retrograde	3001 Dec 25 17:35	2°♒00'08	
asc. node	3001 Dec 28 15:11	1°♒49'49	

	3002 Jan 04 15:32	30℞♋	
evening set	3002 Jan 09 08:33	27°♋46'32	
inferior conj	3002 Jan 15 07:29	24°♋16'42	4°24'53
minimum elong	3002 Jan 14 22:29	24°♋30'29	4°22'20
min. Earth dist.	3002 Jan 14 20:01	24°♋34'15	0.26544 AU
morning rise	3002 Jan 20 12:30	21°♋11'25	
direct	3002 Feb 04 16:15	16°♋38'20	
greatest brilliancy	3002 Feb 14 07:37	18°♋23'42	-4.9m
	3002 Mar 05 19:31	0°♒	
morning max el	3002 Mar 26 20:00	18°♒59'52	46°42'07
	3002 Apr 06 13:14	0°♓	
desc. node	3002 Apr 19 05:01	13°♓38'44	
	3002 May 03 19:50	0°♈	
	3002 May 29 19:39	0°♉	
	3002 Jun 24 05:59	0°♊	
	3002 Jul 19 08:08	0°♋	
asc. node	3002 Aug 10 08:01	26°♋35'37	
	3002 Aug 13 03:15	0°♌	
	3002 Sep 06 15:33	0°♍	
morning set	3002 Sep 22 09:33	19°♍26'26	
	3002 Sep 30 21:56	0°♎	
	3002 Oct 25 00:08	0°♏	
max. Earth dist.	3002 Oct 26 20:56	2°♏19'50	1.71972 AU
superior conj	3002 Oct 29 17:45	5°♏54'48	1°05'33
minimum elong	3002 Oct 30 03:43	6°♏25'57	1°05'13
	3002 Nov 17 23:57	0°♐	
desc. node	3002 Nov 29 21:56	14°♐55'30	
evening rise	3002 Dec 08 09:02	25°♐31'45	
	3002 Dec 11 22:39	0°♑	
	3003 Jan 04 21:08	0°♒	
	3003 Jan 28 20:44	0°♓	
	3003 Feb 21 23:59	0°♈	
	3003 Mar 18 10:50	0°♉	
asc. node	3003 Mar 23 00:49	5°♉33'29	
	3003 Apr 12 11:07	0°♊	
	3003 May 08 10:49	0°♋	
	3003 Jun 05 11:27	0°♌	
evening max el	3003 Jun 11 09:16	5°♌48'41	45°28'43
	3003 Jul 11 15:35	0°♍	
desc. node	3003 Jul 12 14:28	0°♍31'34	
greatest brilliancy	3003 Jul 19 13:06	3°♍41'18	-4.7m
retrograde	3003 Jul 30 02:26	5°♍41'38	
evening set	3003 Aug 15 22:24	0°♍19'49	
	3003 Aug 16 11:58	30℞♌	
inferior conj	3003 Aug 20 13:49	27°♌30'20	-7°32'44
minimum elong	3003 Aug 20 05:18	27°♌43'37	7°31'32
min. Earth dist.	3003 Aug 20 15:27	27°♌27'47	0.29008 AU
morning rise	3003 Aug 24 12:03	25°♌05'37	
direct	3003 Sep 11 04:07	19°♌12'33	
greatest brilliancy	3003 Sep 21 21:00	21°♌17'05	-4.8m
	3003 Oct 07 09:31	0°♍	
morning max el	3003 Oct 30 20:35	20°♍29'16	46°17'21
asc. node	3003 Nov 02 17:37	23°♍21'45	
	3003 Nov 09 04:08	0°♎	
	3003 Dec 06 04:25	0°♏	
	3003 Dec 31 12:08	0°♐	
	3004 Jan 25 02:50	0°♑	
	3004 Feb 18 10:10	0°♒	
desc. node	3004 Feb 22 07:17	4°♒48'19	
	3004 Mar 13 14:43	0°♓	
	3004 Apr 06 18:59	0°♈	
	3004 May 01 00:26	0°♉	
morning set	3004 May 05 05:24	5°♉11'58	
	3004 May 25 07:44	0°♊	
superior conj	3004 Jun 11 19:08	21°♊30'59	-0°06'20
minimum elong	3004 Jun 11 20:29	21°♊35'09	0°06'15
behind sun begin	3004 Jun 10 23:07	20°♊29'25	
behind sun end	3004 Jun 12 17:50	22°♊40'52	
max. Earth dist.	3004 Jun 12 20:27	22°♊48'54	1.73400 AU
asc. node	3004 Jun 14 10:28	24°♊45'48	
	3004 Jun 18 16:39	0°♋	
	3004 Jul 13 02:28	0°♌	
evening rise	3004 Jul 18 06:16	6°♌20'13	
	3004 Aug 06 12:53	0°♍	
	3004 Aug 31 00:28	0°♎	
	3004 Sep 24 14:24	0°♏	
desc. node	3004 Oct 04 00:09	11°♏25'57	
	3004 Oct 19 08:03	0°♐	
	3004 Nov 13 07:19	0°♑	
	3004 Dec 08 17:20	0°♒	
	3005 Jan 04 05:52	0°♓	
evening max el	3005 Jan 16 22:10	13°♓23'47	47°12'47
asc. node	3005 Jan 25 03:04	21°♓30'23	
	3005 Feb 03 11:36	0°♈	
greatest brilliancy	3005 Feb 26 10:16	14°♈54'55	-4.9m
retrograde	3005 Mar 08 19:20	16°♈57'46	
evening set	3005 Mar 26 17:08	10°♈43'48	
inferior conj	3005 Mar 29 18:01	8°♈50'40	8°36'37
minimum elong	3005 Mar 29 22:59	8°♈42'55	8°36'15
min. Earth dist.	3005 Mar 29 08:15	9°♈05'58	0.27818 AU
morning rise	3005 Apr 02 05:03	6°♈42'48	
direct	3005 Apr 19 14:57	0°♈53'09	
greatest brilliancy	3005 Apr 28 22:00	2°♈30'07	-4.8m
desc. node	3005 May 16 16:46	12°♈23'11	
	3005 Jun 06 05:26	0°♉	
morning max el	3005 Jun 07 21:24	1°♉35'49	45°57'59
	3005 Jul 05 08:17	0°♊	
	3005 Aug 01 03:37	0°♋	
	3005 Aug 26 21:27	0°♌	
asc. node	3005 Sep 06 19:58	13°♌00'56	
	3005 Sep 20 22:28	0°♍	
	3005 Oct 15 11:13	0°♎	
	3005 Nov 08 15:35	0°♏	
morning set	3005 Dec 02 20:18	0°♐16'28	
	3005 Dec 02 15:03	0°♐	
	3005 Dec 26 12:09	0°♑	
desc. node	3005 Dec 27 09:37	1°♑07'30	
superior conj	3006 Jan 12 17:24	21°♑39'44	-0°37'56
minimum elong	3006 Jan 12 08:06	21°♑10'28	0°37'32
max. Earth dist.	3006 Jan 13 04:40	22°♑15'10	1.71090 AU
	3006 Jan 19 08:25	0°♒	
	3006 Feb 12 05:04	0°♓	
evening rise	3006 Feb 22 23:12	13°♓29'46	
	3006 Mar 08 03:41	0°♈	
	3006 Apr 01 06:19	0°♉	
asc. node	3006 Apr 19 12:51	22°♉31'38	
	3006 Apr 25 15:13	0°♊	
	3006 May 20 08:38	0°♋	
	3006 Jun 14 13:54	0°♌	
	3006 Jul 10 14:02	0°♍	
	3006 Aug 07 02:58	0°♎	
desc. node	3006 Aug 09 02:17	2°♎02'25	
evening max el	3006 Aug 21 22:58	14°♎50'52	45°46'04
	3006 Sep 08 04:11	0°♏	
greatest brilliancy	3006 Sep 30 16:26	13°♏13'26	-4.8m
retrograde	3006 Oct 09 19:36	14°♏44'11	
evening set	3006 Oct 26 10:33	9°♏31'03	
inferior conj	3006 Oct 30 17:48	6°♏55'55	-6°45'19
minimum elong	3006 Oct 31 04:07	6°♏40'03	6°43'16
min. Earth dist.	3006 Oct 31 16:40	6°♏20'46	0.27559 AU
morning rise	3006 Nov 04 21:11	3°♏51'14	

	3006 Nov 13 14:47	30°℞♎	
direct	3006 Nov 20 18:18	28°♎57'47	
	3006 Nov 28 02:30	0°♏	
asc. node	3006 Nov 30 05:19	0°♏39'31	
greatest brilliancy	3006 Dec 01 21:06	1°♏16'31	-4.9m
	3007 Jan 08 04:54	0°♐	
morning max el	3007 Jan 10 10:45	2°♐16'01	46°55'16
	3007 Feb 05 00:48	0°♑	
	3007 Mar 02 20:20	0°♒	
desc. node	3007 Mar 21 19:14	22°♒38'03	
	3007 Mar 27 22:04	0°♓	
	3007 Apr 21 16:21	0°♈	
	3007 May 16 07:45	0°♉	
	3007 Jun 09 22:06	0°♊	
	3007 Jul 04 11:25	0°♋	
asc. node	3007 Jul 12 22:14	10°♋20'49	
morning set	3007 Jul 13 22:57	11°♋36'31	
	3007 Jul 28 22:45	0°♌	
max. Earth dist.	3007 Aug 16 21:02	23°♌17'56	1.73297 AU
superior conj	3007 Aug 19 09:40	26°♌24'49	1°13'50
minimum elong	3007 Aug 19 01:58	26°♌01'05	1°13'39
	3007 Aug 22 07:26	0°♍	
	3007 Sep 15 13:46	0°♎	
evening rise	3007 Sep 24 16:10	11°♎16'08	
	3007 Oct 09 18:52	0°♏	
desc. node	3007 Nov 01 12:04	28°♏09'16	
	3007 Nov 02 23:48	0°♐	
	3007 Nov 27 05:14	0°♑	
	3007 Dec 21 12:10	0°♒	
	3008 Jan 14 23:25	0°♓	
	3008 Feb 08 21:40	0°♈	
asc. node	3008 Feb 22 14:55	16°♈03'48	
	3008 Mar 05 21:01	0°♉	
evening max el	3008 Mar 29 11:54	25°♉05'33	46°18'24
	3008 Apr 03 12:43	0°♊	
greatest brilliancy	3008 May 07 06:35	24°♊29'59	-4.8m
retrograde	3008 May 18 03:47	26°♊40'31	
evening set	3008 Jun 02 09:12	22°♊10'13	
inferior conj	3008 Jun 08 13:32	18°♊26'15	1°06'11
minimum elong	3008 Jun 08 15:58	18°♊22'25	1°05'27
min. Earth dist.	3008 Jun 08 10:53	18°♊30'24	0.28697 AU
desc. node	3008 Jun 13 04:30	15°♊35'47	
morning rise	3008 Jun 14 23:01	14°♊35'29	
direct	3008 Jun 30 00:12	10°♊13'54	
greatest brilliancy	3008 Jul 10 02:48	12°♊03'52	-4.7m
	3008 Aug 06 20:03	0°♋	
morning max el	3008 Aug 17 15:51	9°♋50'08	45°43'54
	3008 Sep 06 13:18	0°♌	
	3008 Oct 03 13:16	0°♍	
asc. node	3008 Oct 04 07:54	0°♍53'35	
	3008 Oct 29 00:55	0°♎	
	3008 Nov 22 16:59	0°♏	
	3008 Dec 16 22:24	0°♐	
	3009 Jan 09 22:33	0°♑	
desc. node	3009 Jan 23 21:28	17°♑29'54	
	3009 Feb 02 20:36	0°♒	
morning set	3009 Feb 17 12:52	18°♒25'10	
	3009 Feb 26 18:27	0°♓	
	3009 Mar 22 17:36	0°♈	
superior conj	3009 Mar 30 04:35	9°♈18'39	-1°23'53
minimum elong	3009 Mar 30 09:51	9°♈35'04	1°23'50
max. Earth dist.	3009 Apr 03 06:10	14°♈22'50	1.72025 AU
	3009 Apr 15 19:24	0°♉	
evening rise	3009 May 08 11:00	28°♉03'14	
	3009 May 10 00:51	0°♊	
asc. node	3009 May 17 00:40	8°♊37'17	
	3009 Jun 03 10:20	0°♋	
	3009 Jun 28 00:14	0°♌	
	3009 Jul 22 19:34	0°♍	
	3009 Aug 16 22:52	0°♎	
desc. node	3009 Sep 05 14:13	23°♎01'55	
	3009 Sep 11 14:43	0°♏	
	3009 Oct 08 04:33	0°♐	
evening max el	3009 Nov 02 22:21	27°♐04'53	46°49'53
	3009 Nov 05 21:51	0°♑	
greatest brilliancy	3009 Dec 13 09:09	27°♑39'27	-4.9m
retrograde	3009 Dec 23 06:08	29°♑30'45	
asc. node	3009 Dec 27 17:13	29°♑06'07	
evening set	3010 Jan 06 18:51	25°♑19'36	
inferior conj	3010 Jan 12 19:41	21°♑47'44	4°03'06
minimum elong	3010 Jan 12 11:13	22°♑00'39	4°00'38
min. Earth dist.	3010 Jan 12 09:19	22°♑03'33	0.26527 AU
morning rise	3010 Jan 18 03:40	18°♑38'47	
direct	3010 Feb 02 04:20	14°♑09'16	
greatest brilliancy	3010 Feb 11 21:18	15°♑56'24	-4.9m
	3010 Mar 06 09:11	0°♒	
morning max el	3010 Mar 24 09:46	16°♒36'36	46°43'31
	3010 Apr 06 08:46	0°♓	
desc. node	3010 Apr 18 07:08	12°♓57'34	
	3010 May 03 11:02	0°♈	
	3010 May 29 08:54	0°♉	
	3010 Jun 23 18:09	0°♊	
	3010 Jul 18 19:38	0°♋	
asc. node	3010 Aug 09 10:10	26°♋08'18	
	3010 Aug 12 14:21	0°♌	
	3010 Sep 06 02:26	0°♍	
morning set	3010 Sep 20 02:26	17°♍16'37	
	3010 Sep 30 08:46	0°♎	
	3010 Oct 24 11:00	0°♏	
max. Earth dist.	3010 Oct 24 12:56	0°♏06'01	1.72022 AU
superior conj	3010 Oct 27 08:31	3°♏37'01	1°07'44
minimum elong	3010 Oct 27 18:15	4°♏07'23	1°07'27
	3010 Nov 17 10:56	0°♐	
desc. node	3010 Nov 28 23:54	14°♐27'02	
evening rise	3010 Dec 05 20:52	23°♐03'45	
	3010 Dec 11 09:46	0°♑	
	3011 Jan 04 08:25	0°♒	
	3011 Jan 28 08:12	0°♓	
	3011 Feb 21 11:42	0°♈	
	3011 Mar 17 23:01	0°♉	
asc. node	3011 Mar 22 02:56	5°♉02'41	
	3011 Apr 12 00:12	0°♊	
	3011 May 08 01:52	0°♋	
	3011 Jun 05 07:52	0°♌	
evening max el	3011 Jun 09 01:53	3°♌39'49	45°29'28
desc. node	3011 Jul 11 16:34	29°♌06'58	
	3011 Jul 13 12:15	0°♍	
greatest brilliancy	3011 Jul 17 03:25	1°♍30'18	-4.7m
retrograde	3011 Jul 27 18:52	3°♍32'07	
	3011 Aug 10 05:51	30°℞♌	
evening set	3011 Aug 13 11:17	28°♌14'45	
inferior conj	3011 Aug 18 05:54	25°♌20'20	-7°22'36
minimum elong	3011 Aug 17 21:01	25°♌34'11	7°21'17
min. Earth dist.	3011 Aug 18 06:18	25°♌19'42	0.29020 AU
morning rise	3011 Aug 22 06:41	22°♌51'53	
direct	3011 Sep 08 20:55	17°♌02'39	
greatest brilliancy	3011 Sep 19 11:42	19°♌05'32	-4.8m
	3011 Oct 08 00:00	0°♍	
morning max el	3011 Oct 28 12:30	18°♍16'20	46°15'44
asc. node	3011 Nov 01 19:35	22°♍34'46	
	3011 Nov 08 22:48	0°♎	

	3011 Dec 05 19:06	0°♏	
	3011 Dec 31 01:14	0°♐	
	3012 Jan 24 15:07	0°♑	
	3012 Feb 17 21:57	0°♒	
desc. node	3012 Feb 21 09:25	4°♒18'38	
	3012 Mar 13 02:09	0°♓	
	3012 Apr 06 06:06	0°♈	
	3012 Apr 30 11:19	0°♉	
morning set	3012 May 02 20:43	2°♉57'26	
	3012 May 24 18:28	0°♊	
superior conj	3012 Jun 09 12:03	19°♊22'30	-0°09'36
minimum elong	3012 Jun 09 14:07	19°♊28'50	0°09'30
behind sun begin	3012 Jun 08 19:24	18°♊31'15	
behind sun end	3012 Jun 10 08:49	20°♊26'24	
max. Earth dist.	3012 Jun 10 18:54	20°♊57'24	1.73376 AU
asc. node	3012 Jun 13 12:27	24°♊19'02	
	3012 Jun 18 03:19	0°♋	
	3012 Jul 12 13:11	0°♌	
evening rise	3012 Jul 16 00:56	4°♌17'12	
	3012 Aug 05 23:45	0°♍	
	3012 Aug 30 11:35	0°♎	
	3012 Sep 24 01:57	0°♏	
desc. node	3012 Oct 03 02:13	10°♏56'32	
	3012 Oct 18 20:15	0°♐	
	3012 Nov 12 20:33	0°♑	
	3012 Dec 08 08:19	0°♒	
	3013 Jan 04 00:43	0°♓	
evening max el	3013 Jan 14 13:32	11°♓04'12	47°13'23
asc. node	3013 Jan 24 05:09	20°♓33'04	
	3013 Feb 03 21:56	0°♈	
greatest brilliancy	3013 Feb 24 01:14	12°♈34'27	-4.9m
retrograde	3013 Mar 06 10:13	14°♈36'49	
evening set	3013 Mar 24 09:04	8°♈21'13	
inferior conj	3013 Mar 27 08:18	6°♈30'26	8°41'58
minimum elong	3013 Mar 27 12:28	6°♈23'54	8°41'44
min. Earth dist.	3013 Mar 26 21:34	6°♈47'14	0.27773 AU
morning rise	3013 Mar 30 16:06	4°♈27'19	
	3013 Apr 08 19:27	30°℞♓	
direct	3013 Apr 17 05:10	28°♓34'02	
	3013 Apr 25 22:35	0°♈	
greatest brilliancy	3013 Apr 26 10:26	0°♈09'37	-4.8m
desc. node	3013 May 15 18:41	11°♈12'06	
morning max el	3013 Jun 05 11:36	29°♈19'22	45°59'11
	3013 Jun 06 04:24	0°♉	
	3013 Jul 05 00:08	0°♊	
	3013 Jul 31 16:56	0°♋	
	3013 Aug 26 09:31	0°♌	
asc. node	3013 Sep 05 22:00	12°♌31'57	
	3013 Sep 20 09:54	0°♍	
	3013 Oct 14 22:17	0°♎	
	3013 Nov 08 02:28	0°♏	
morning set	3013 Nov 30 09:09	27°♏52'18	
	3013 Dec 02 01:52	0°♐	
	3013 Dec 25 22:58	0°♑	
desc. node	3013 Dec 26 11:43	0°♑40'05	
superior conj	3014 Jan 10 03:41	19°♑07'04	-0°34'19
minimum elong	3014 Jan 09 19:08	18°♑40'11	0°33'56
max. Earth dist.	3014 Jan 10 09:03	19°♑23'56	1.71092 AU
	3014 Jan 18 19:16	0°♒	
	3014 Feb 11 15:56	0°♓	
evening rise	3014 Feb 20 09:41	10°♓58'02	
	3014 Mar 07 14:36	0°♈	
	3014 Mar 31 17:21	0°♉	
asc. node	3014 Apr 18 14:48	22°♉03'17	
	3014 Apr 25 02:28	0°♊	
	3014 May 19 20:19	0°♋	
	3014 Jun 14 02:27	0°♌	
	3014 Jul 10 04:20	0°♍	
	3014 Aug 06 21:29	0°♎	
desc. node	3014 Aug 08 04:24	1°♎19'18	
evening max el	3014 Aug 19 12:06	12°♎32'36	45°44'17
	3014 Sep 08 17:26	0°♏	
greatest brilliancy	3014 Sep 28 06:16	10°♏55'23	-4.8m
retrograde	3014 Oct 07 08:18	12°♏25'29	
evening set	3014 Oct 24 03:19	7°♏07'32	
inferior conj	3014 Oct 28 07:41	4°♏36'34	-6°58'54
minimum elong	3014 Oct 28 17:48	4°♏21'00	6°57'00
min. Earth dist.	3014 Oct 29 07:07	4°♏00'30	0.27626 AU
morning rise	3014 Nov 02 07:45	1°♏36'12	
	3014 Nov 05 07:39	30°℞♎	
direct	3014 Nov 18 08:13	26°♎37'11	
asc. node	3014 Nov 29 07:18	28°♎51'34	
greatest brilliancy	3014 Nov 29 12:35	28°♎56'46	-4.9m
	3014 Dec 01 22:55	0°♏	
morning max el	3015 Jan 07 23:59	29°♏51'11	46°54'47
	3015 Jan 08 03:27	0°♐	
	3015 Feb 04 16:56	0°♑	
	3015 Mar 02 10:03	0°♒	
desc. node	3015 Mar 20 21:16	22°♒05'52	
	3015 Mar 27 10:33	0°♓	
	3015 Apr 21 04:05	0°♈	
	3015 May 15 19:00	0°♉	
	3015 Jun 09 09:01	0°♊	
	3015 Jul 03 22:05	0°♋	
morning set	3015 Jul 11 16:47	9°♋31'39	
asc. node	3015 Jul 12 00:23	9°♋54'57	
	3015 Jul 28 09:17	0°♌	
max. Earth dist.	3015 Aug 14 16:43	21°♌18'17	1.73328 AU
superior conj	3015 Aug 17 03:52	24°♌20'36	1°12'13
minimum elong	3015 Aug 16 19:52	23°♌55'57	1°12'01
	3015 Aug 21 17:56	0°♍	
	3015 Sep 15 00:23	0°♎	
evening rise	3015 Sep 22 08:57	9°♎06'27	
	3015 Oct 09 05:42	0°♏	
desc. node	3015 Oct 31 14:01	27°♏41'00	
	3015 Nov 02 10:54	0°♐	
	3015 Nov 26 16:40	0°♑	
	3015 Dec 21 00:01	0°♒	
	3016 Jan 14 11:55	0°♓	
	3016 Feb 08 11:18	0°♈	
asc. node	3016 Feb 21 17:00	15°♈27'34	
	3016 Mar 05 13:09	0°♉	
evening max el	3016 Mar 27 01:59	22°♉48'01	46°20'39
	3016 Apr 03 12:51	0°♊	
greatest brilliancy	3016 May 04 23:31	22°♊20'19	-4.8m
retrograde	3016 May 15 20:07	24°♊30'49	
evening set	3016 May 31 02:45	19°♊58'20	
inferior conj	3016 Jun 06 05:45	16°♊16'33	1°26'13
minimum elong	3016 Jun 06 08:54	16°♊11'36	1°25'18
min. Earth dist.	3016 Jun 06 03:35	16°♊19'56	0.28677 AU
desc. node	3016 Jun 12 06:37	12°♊37'44	
morning rise	3016 Jun 12 15:18	12°♊25'45	
direct	3016 Jun 27 15:26	8°♊04'16	
greatest brilliancy	3016 Jul 07 18:59	9°♊54'56	-4.7m
	3016 Aug 06 23:15	0°♋	
morning max el	3016 Aug 15 07:41	7°♋40'36	45°43'37
	3016 Sep 06 05:52	0°♌	
asc. node	3016 Oct 03 09:53	0°♍20'21	
	3016 Oct 03 02:50	0°♍	
	3016 Oct 28 13:12	0°♎	
	3016 Nov 22 04:38	0°♏	

	3016 Dec 16 09:43	0°♐	
	3017 Jan 09 09:40	0°♑	
desc. node	3017 Jan 22 23:35	17°♑01'56	
	3017 Feb 02 07:34	0°♒	
morning set	3017 Feb 14 22:57	15°♒52'00	
	3017 Feb 26 05:17	0°♓	
	3017 Mar 22 04:19	0°♈	
superior conj	3017 Mar 27 17:25	6°♈55'35	-1°24'43
minimum elong	3017 Mar 27 21:50	7°♈09'23	1°24'41
max. Earth dist.	3017 Mar 31 16:20	11°♈51'39	1.71969 AU
	3017 Apr 15 06:04	0°♉	
evening rise	3017 May 06 02:09	25°♉48'57	
	3017 May 09 11:30	0°♊	
asc. node	3017 May 16 02:41	8°♊10'36	
	3017 Jun 02 21:06	0°♋	
	3017 Jun 27 11:16	0°♌	
	3017 Jul 22 07:06	0°♍	
	3017 Aug 16 11:15	0°♎	
desc. node	3017 Sep 04 16:14	22°♎28'53	
	3017 Sep 11 04:36	0°♏	
	3017 Oct 07 21:25	0°♐	
evening max el	3017 Oct 31 12:09	24°♐42'51	46°47'51
	3017 Nov 05 23:04	0°♑	
greatest brilliancy	3017 Dec 10 21:39	25°♑10'48	-4.9m
retrograde	3017 Dec 20 19:01	27°♑02'07	
asc. node	3017 Dec 26 19:22	26°♑17'12	
evening set	3018 Jan 04 05:27	22°♑53'10	
inferior conj	3018 Jan 10 07:52	19°♑19'22	3°40'49
minimum elong	3018 Jan 10 00:01	19°♑31'19	3°38'28
min. Earth dist.	3018 Jan 09 22:26	19°♑33'43	0.26514 AU
morning rise	3018 Jan 15 18:42	16°♑06'56	
direct	3018 Jan 30 17:00	11°♑40'53	
greatest brilliancy	3018 Feb 09 10:38	13°♑29'09	-4.9m
	3018 Mar 06 19:07	0°♒	
morning max el	3018 Mar 22 00:13	14°♒15'40	46°44'58
	3018 Apr 06 03:32	0°♓	
desc. node	3018 Apr 17 09:02	12°♓16'57	
	3018 May 03 01:46	0°♈	
	3018 May 28 21:48	0°♉	
	3018 Jun 23 06:01	0°♊	
	3018 Jul 18 06:54	0°♋	
asc. node	3018 Aug 08 12:11	25°♋41'07	
	3018 Aug 12 01:16	0°♌	
	3018 Sep 05 13:11	0°♍	
morning set	3018 Sep 17 19:20	15°♍07'22	
	3018 Sep 29 19:28	0°♎	
max. Earth dist.	3018 Oct 22 02:55	27°♎46'25	1.72068 AU
	3018 Oct 23 21:44	0°♏	
superior conj	3018 Oct 24 23:23	1°♏20'01	1°09'48
minimum elong	3018 Oct 25 08:48	1°♏49'26	1°09'32
	3018 Nov 16 21:45	0°♐	
desc. node	3018 Nov 28 01:58	13°♐59'20	
evening rise	3018 Dec 03 08:44	20°♐36'18	
	3018 Dec 10 20:45	0°♑	
	3019 Jan 03 19:35	0°♒	
	3019 Jan 27 19:36	0°♓	
	3019 Feb 20 23:23	0°♈	
	3019 Mar 17 11:10	0°♉	
asc. node	3019 Mar 21 04:53	4°♉31'29	
	3019 Apr 11 13:16	0°♊	
	3019 May 07 16:59	0°♋	
	3019 Jun 05 04:47	0°♌	
evening max el	3019 Jun 06 18:37	1°♌31'44	45°30'14
desc. node	3019 Jul 10 18:37	27°♌40'06	
greatest brilliancy	3019 Jul 14 18:25	29°♌20'46	-4.7m
	3019 Jul 16 17:10	0°♍	
retrograde	3019 Jul 25 11:02	1°♍23'16	
	3019 Aug 02 19:59	30°℞♌	
evening set	3019 Aug 11 00:25	26°♌10'27	
inferior conj	3019 Aug 15 22:08	23°♌11'09	-7°12'01
minimum elong	3019 Aug 15 12:58	23°♌25'30	7°10'33
min. Earth dist.	3019 Aug 15 21:36	23°♌12'00	0.29031 AU
morning rise	3019 Aug 20 01:27	20°♌38'45	
direct	3019 Sep 06 13:48	14°♌53'35	
greatest brilliancy	3019 Sep 17 02:37	16°♌54'36	-4.8m
	3019 Oct 08 10:41	0°♍	
morning max el	3019 Oct 26 03:55	16°♍02'15	46°14'02
asc. node	3019 Oct 31 21:36	21°♍48'41	
	3019 Nov 08 16:59	0°♎	
	3019 Dec 05 09:37	0°♏	
	3019 Dec 30 14:14	0°♐	
	3020 Jan 24 03:20	0°♑	
	3020 Feb 17 09:43	0°♒	
desc. node	3020 Feb 20 11:23	3°♒48'27	
	3020 Mar 12 13:35	0°♓	
	3020 Apr 05 17:17	0°♈	
	3020 Apr 29 22:17	0°♉	
morning set	3020 Apr 30 11:59	0°♉42'23	
	3020 May 24 05:16	0°♊	
superior conj	3020 Jun 07 05:03	17°♊14'00	-0°12'52
minimum elong	3020 Jun 07 07:48	17°♊22'29	0°12'44
behind sun begin	3020 Jun 06 17:47	16°♊39'19	
behind sun end	3020 Jun 07 21:50	18°♊05'40	
max. Earth dist.	3020 Jun 08 17:03	19°♊04'49	1.73343 AU
asc. node	3020 Jun 12 14:36	23°♊52'39	
	3020 Jun 17 14:02	0°♋	
	3020 Jul 11 23:56	0°♌	
evening rise	3020 Jul 13 19:41	2°♌14'22	
	3020 Aug 05 10:39	0°♍	
	3020 Aug 29 22:48	0°♎	
	3020 Sep 23 13:39	0°♏	
desc. node	3020 Oct 02 04:08	10°♏26'10	
	3020 Oct 18 08:41	0°♐	
	3020 Nov 12 10:04	0°♑	
	3020 Dec 07 23:43	0°♒	
	3021 Jan 03 20:18	0°♓	
evening max el	3021 Jan 12 04:00	8°♓41'34	47°13'56
asc. node	3021 Jan 23 07:11	19°♓33'44	
	3021 Feb 04 12:10	0°♈	
greatest brilliancy	3021 Feb 21 16:36	10°♈13'34	-4.9m
retrograde	3021 Mar 04 00:30	12°♈14'48	
evening set	3021 Mar 22 00:35	5°♈58'10	
inferior conj	3021 Mar 24 22:29	4°♈09'16	8°46'33
minimum elong	3021 Mar 25 01:50	4°♈04'01	8°46'23
min. Earth dist.	3021 Mar 24 11:10	4°♈27'01	0.27727 AU
morning rise	3021 Mar 28 03:18	2°♈10'29	
	3021 Mar 31 23:35	30°℞♓	
direct	3021 Apr 14 18:45	26°♓13'48	
greatest brilliancy	3021 Apr 23 23:22	27°♓48'31	-4.8m
	3021 Apr 29 07:50	0°♈	
desc. node	3021 May 14 20:49	10°♈02'36	
morning max el	3021 Jun 03 01:09	27°♈00'18	46°00'32
	3021 Jun 06 02:44	0°♉	
	3021 Jul 04 15:59	0°♊	
	3021 Jul 31 06:20	0°♋	
	3021 Aug 25 21:43	0°♌	
asc. node	3021 Sep 05 00:00	12°♌02'24	
	3021 Sep 19 21:27	0°♍	
	3021 Oct 14 09:31	0°♎	
	3021 Nov 07 13:35	0°♏	
morning set	3021 Nov 27 21:53	25°♏26'55	

	3021 Dec 01 12:59	0°♐	
	3021 Dec 25 10:06	0°♑	
desc. node	3021 Dec 25 13:49	0°♑11'43	
superior conj	3022 Jan 07 13:43	16°♑32'41	-0°30'36
minimum elong	3022 Jan 07 05:59	16°♑08'21	0°30'14
max. Earth dist.	3022 Jan 07 11:28	16°♑25'34	1.71098 AU
	3022 Jan 18 06:24	0°♒	
	3022 Feb 11 03:05	0°♓	
evening rise	3022 Feb 17 19:52	8°♓24'25	
	3022 Mar 07 01:48	0°♈	
	3022 Mar 31 04:42	0°♉	
asc. node	3022 Apr 17 16:51	21°♉34'19	
	3022 Apr 24 14:04	0°♊	
	3022 May 19 08:24	0°♋	
	3022 Jun 13 15:25	0°♌	
	3022 Jul 09 19:07	0°♍	
	3022 Aug 06 16:49	0°♎	
desc. node	3022 Aug 07 06:25	0°♎34'33	
evening max el	3022 Aug 17 01:04	10°♎13'22	45°42'44
	3022 Sep 09 11:32	0°♏	
greatest brilliancy	3022 Sep 25 19:32	8°♏36'29	-4.8m
retrograde	3022 Oct 04 21:23	10°♏06'51	
evening set	3022 Oct 21 20:06	4°♏43'42	
inferior conj	3022 Oct 25 21:43	2°♏16'55	-7°11'37
minimum elong	3022 Oct 26 07:33	2°♏01'46	7°09'53
min. Earth dist.	3022 Oct 26 21:28	1°♏40'23	0.27699 AU
	3022 Oct 29 15:48	30°℞♎	
morning rise	3022 Oct 30 18:28	29°♎21'12	
direct	3022 Nov 15 22:28	24°♎16'07	
greatest brilliancy	3022 Nov 27 04:20	26°♎36'56	-4.9m
asc. node	3022 Nov 28 09:30	27°♎07'17	
	3022 Dec 04 00:49	0°♏	
morning max el	3023 Jan 05 14:12	27°♏27'44	46°54'03
	3023 Jan 08 01:34	0°♐	
	3023 Feb 04 09:16	0°♑	
	3023 Mar 02 00:08	0°♒	
desc. node	3023 Mar 19 23:16	21°♒32'19	
	3023 Mar 26 23:25	0°♓	
	3023 Apr 20 16:13	0°♈	
	3023 May 15 06:38	0°♉	
	3023 Jun 08 20:18	0°♊	
	3023 Jul 03 09:08	0°♋	
morning set	3023 Jul 09 10:30	7°♋25'09	
asc. node	3023 Jul 11 02:22	9°♋27'18	
	3023 Jul 27 20:12	0°♌	
max. Earth dist.	3023 Aug 12 13:35	19°♌21'06	1.73354 AU
superior conj	3023 Aug 14 22:08	22°♌15'21	1°10'30
minimum elong	3023 Aug 14 13:52	21°♌49'52	1°10'16
	3023 Aug 21 04:50	0°♍	
	3023 Sep 14 11:22	0°♎	
evening rise	3023 Sep 20 02:02	6°♎56'42	
	3023 Oct 08 16:52	0°♏	
desc. node	3023 Oct 30 16:09	27°♏12'18	
	3023 Nov 01 22:21	0°♐	
	3023 Nov 26 04:29	0°♑	
	3023 Dec 20 12:19	0°♒	
	3024 Jan 14 00:57	0°♓	
	3024 Feb 08 01:36	0°♈	
asc. node	3024 Feb 20 18:57	14°♈49'02	
	3024 Mar 05 06:11	0°♉	
evening max el	3024 Mar 24 16:45	20°♉30'29	46°23'06
	3024 Apr 03 14:58	0°♊	
greatest brilliancy	3024 May 02 15:43	20°♊07'57	-4.8m
retrograde	3024 May 13 12:39	22°♊19'04	
evening set	3024 May 28 20:15	17°♊44'07	
inferior conj	3024 Jun 03 21:44	14°♊04'40	1°46'22
minimum elong	3024 Jun 04 01:36	13°♊58'36	1°45'13
min. Earth dist.	3024 Jun 03 19:45	14°♊07'47	0.28655 AU
morning rise	3024 Jun 10 07:13	10°♊14'16	
desc. node	3024 Jun 11 08:42	9°♊40'15	
direct	3024 Jun 25 06:55	5°♊52'30	
greatest brilliancy	3024 Jul 05 10:32	7°♊43'35	-4.7m
	3024 Aug 07 01:34	0°♋	
morning max el	3024 Aug 13 00:14	5°♋31'31	45°43'24
	3024 Sep 05 22:36	0°♌	
asc. node	3024 Oct 02 11:53	29°♌46'10	
	3024 Oct 02 16:40	0°♍	
	3024 Oct 28 01:46	0°♎	
	3024 Nov 21 16:35	0°♏	
	3024 Dec 15 21:20	0°♐	
	3025 Jan 08 21:06	0°♑	
desc. node	3025 Jan 22 01:32	16°♑32'24	
	3025 Feb 01 18:52	0°♒	
morning set	3025 Feb 12 08:48	13°♒16'54	
	3025 Feb 25 16:31	0°♓	
	3025 Mar 21 15:29	0°♈	
superior conj	3025 Mar 25 05:36	4°♈29'00	-1°25'24
minimum elong	3025 Mar 25 09:06	4°♈39'56	1°25'22
max. Earth dist.	3025 Mar 29 02:17	9°♈18'16	1.71918 AU
	3025 Apr 14 17:10	0°♉	
evening rise	3025 May 03 16:38	23°♉31'11	
	3025 May 08 22:36	0°♊	
asc. node	3025 May 15 04:47	7°♊42'50	
	3025 Jun 02 08:18	0°♋	
	3025 Jun 26 22:44	0°♌	
	3025 Jul 21 19:06	0°♍	
	3025 Aug 16 00:08	0°♎	
desc. node	3025 Sep 03 18:13	21°♎54'22	
	3025 Sep 10 19:02	0°♏	
	3025 Oct 07 15:00	0°♐	
evening max el	3025 Oct 29 02:50	22°♐22'24	46°45'53
	3025 Nov 06 02:01	0°♑	
greatest brilliancy	3025 Dec 08 10:09	22°♑41'56	-4.9m
retrograde	3025 Dec 18 07:57	24°♑33'00	
asc. node	3025 Dec 25 21:18	23°♑22'15	
evening set	3026 Jan 01 16:28	20°♑26'15	
inferior conj	3026 Jan 07 20:07	16°♑50'38	3°18'07
minimum elong	3026 Jan 07 12:57	17°♑01'32	3°15'56
min. Earth dist.	3026 Jan 07 11:36	17°♑03'37	0.26502 AU
morning rise	3026 Jan 13 09:38	13°♑34'49	
direct	3026 Jan 28 06:03	9°♑12'23	
greatest brilliancy	3026 Feb 06 23:49	11°♑01'12	-4.9m
	3026 Mar 07 02:39	0°♒	
morning max el	3026 Mar 19 14:14	11°♒52'45	46°46'03
	3026 Apr 05 22:09	0°♓	
desc. node	3026 Apr 16 11:11	11°♓36'22	
	3026 May 02 16:42	0°♈	
	3026 May 28 10:59	0°♉	
	3026 Jun 22 18:13	0°♊	
	3026 Jul 17 18:28	0°♋	
asc. node	3026 Aug 07 14:08	25°♋12'51	
	3026 Aug 11 12:29	0°♌	
	3026 Sep 05 00:13	0°♍	
morning set	3026 Sep 15 12:04	12°♍56'48	
	3026 Sep 29 06:26	0°♎	
max. Earth dist.	3026 Oct 19 14:32	25°♎18'41	1.72114 AU
superior conj	3026 Oct 22 14:23	29°♎02'43	1°11'45
minimum elong	3026 Oct 22 23:27	29°♎31'01	1°11'30
	3026 Oct 23 08:45	0°♏	
	3026 Nov 16 08:51	0°♐	

desc. node	3026 Nov 27	04:04	13°♐30'57	
evening rise	3026 Nov 30	20:49	18°♐08'48	
	3026 Dec 10	07:58	0°♑	
	3027 Jan 03	06:57	0°♒	
	3027 Jan 27	07:08	0°♓	
	3027 Feb 20	11:13	0°♈	
	3027 Mar 16	23:31	0°♉	
asc. node	3027 Mar 20	06:57	4°♉00'05	
	3027 Apr 11	02:39	0°♊	
	3027 May 07	08:37	0°♋	
evening max el	3027 Jun 04	10:45	29°♋21'07	45°31'00
	3027 Jun 05	02:54	0°♌	
desc. node	3027 Jul 09	20:35	26°♌09'03	
greatest brilliancy	3027 Jul 12	09:55	27°♌10'41	-4.7m
retrograde	3027 Jul 23	02:38	29°♌13'19	
evening set	3027 Aug 08	13:31	24°♌05'05	
inferior conj	3027 Aug 13	14:18	21°♌01'05	-7°00'44
minimum elong	3027 Aug 13	04:53	21°♌15'50	6°59'08
min. Earth dist.	3027 Aug 13	13:12	21°♌02'49	0.29039 AU
morning rise	3027 Aug 17	20:12	18°♌24'32	
direct	3027 Sep 04	06:08	12°♌43'37	
greatest brilliancy	3027 Sep 14	17:59	14°♌43'17	-4.8m
	3027 Oct 08	18:49	0°♍	
morning max el	3027 Oct 23	18:14	13°♍44'58	46°12'23
asc. node	3027 Oct 30	23:46	21°♍03'04	
	3027 Nov 08	10:57	0°♎	
	3027 Dec 05	00:08	0°♏	
	3027 Dec 30	03:17	0°♐	
	3028 Jan 23	15:36	0°♑	
	3028 Feb 16	21:29	0°♒	
desc. node	3028 Feb 19	13:25	3°♒18'25	
	3028 Mar 12	00:59	0°♓	
	3028 Apr 05	04:25	0°♈	
morning set	3028 Apr 28	03:17	28°♈27'24	
	3028 Apr 29	09:13	0°♉	
	3028 May 23	16:05	0°♊	
superior conj	3028 Jun 04	21:57	15°♊05'05	-0°16'07
minimum elong	3028 Jun 05	01:24	15°♊15'42	0°15'57
max. Earth dist.	3028 Jun 06	13:41	17°♊07'22	1.73314 AU
asc. node	3028 Jun 11	16:35	23°♊25'32	
	3028 Jun 17	00:49	0°♋	
	3028 Jul 11	10:46	0°♌	
evening rise	3028 Jul 11	14:11	0°♌10'31	
	3028 Aug 04	21:38	0°♍	
	3028 Aug 29	10:05	0°♎	
	3028 Sep 23	01:26	0°♏	
desc. node	3028 Oct 01	06:17	9°♏56'20	
	3028 Oct 17	21:13	0°♐	
	3028 Nov 11	23:46	0°♑	
	3028 Dec 07	15:22	0°♒	
	3029 Jan 03	16:28	0°♓	
evening max el	3029 Jan 09	17:46	6°♓17'09	47°14'31
asc. node	3029 Jan 22	09:12	18°♓33'10	
	3029 Feb 05	07:00	0°♈	
greatest brilliancy	3029 Feb 19	08:23	7°♈53'30	-4.9m
retrograde	3029 Mar 01	14:42	9°♈53'36	
evening set	3029 Mar 19	15:51	3°♈36'30	
min. Earth dist.	3029 Mar 22	01:12	2°♈07'19	0.27678 AU
inferior conj	3029 Mar 22	12:50	1°♈49'03	8°50'08
minimum elong	3029 Mar 22	15:21	1°♈45'06	8°50'02
	3029 Mar 25	11:08	30°℞♓	
morning rise	3029 Mar 25	15:02	29°♓54'06	
direct	3029 Apr 12	07:57	23°♓54'23	
greatest brilliancy	3029 Apr 21	12:57	25°♓29'01	-4.8m
	3029 May 01	05:40	0°♈	
desc. node	3029 May 13	22:54	8°♈55'46	
morning max el	3029 May 31	14:35	24°♈41'33	46°01'51
	3029 Jun 05	23:58	0°♉	
	3029 Jul 04	07:23	0°♊	
	3029 Jul 30	19:30	0°♋	
	3029 Aug 25	09:47	0°♌	
asc. node	3029 Sep 04	02:05	11°♌33'22	
	3029 Sep 19	08:54	0°♍	
	3029 Oct 13	20:39	0°♎	
	3029 Nov 07	00:35	0°♏	
morning set	3029 Nov 25	10:41	23°♏02'10	
	3029 Nov 30	23:57	0°♐	
desc. node	3029 Dec 24	15:45	29°♐43'13	
	3029 Dec 24	21:05	0°♑	
superior conj	3030 Jan 04	23:46	13°♑58'47	-0°26'49
minimum elong	3030 Jan 04	16:54	13°♑37'09	0°26'30
max. Earth dist.	3030 Jan 04	15:10	13°♑31'44	1.71108 AU
	3030 Jan 17	17:24	0°♒	
	3030 Feb 10	14:06	0°♓	
evening rise	3030 Feb 15	06:10	5°♓51'37	
	3030 Mar 06	12:50	0°♈	
	3030 Mar 30	15:49	0°♉	
asc. node	3030 Apr 16	18:59	21°♉06'22	
	3030 Apr 24	01:25	0°♊	
	3030 May 18	20:11	0°♋	
	3030 Jun 13	04:08	0°♌	
	3030 Jul 09	09:48	0°♍	
desc. node	3030 Aug 06	08:25	29°♍49'48	
	3030 Aug 06	12:28	0°♎	
evening max el	3030 Aug 14	14:37	7°♎56'21	45°41'09
	3030 Sep 10	11:40	0°♏	
greatest brilliancy	3030 Sep 23	08:12	6°♏17'45	-4.8m
retrograde	3030 Oct 02	11:05	7°♏49'06	
evening set	3030 Oct 19	12:51	2°♏20'44	
inferior conj	3030 Oct 23	11:45	29°♎58'00	-7°23'29
minimum elong	3030 Oct 23	21:17	29°♎43'21	7°21'54
	3030 Oct 23	10:27	30°℞♎	
min. Earth dist.	3030 Oct 24	11:28	29°♎21'34	0.27773 AU
morning rise	3030 Oct 28	05:11	27°♎07'13	
direct	3030 Nov 13	13:13	21°♎55'56	
greatest brilliancy	3030 Nov 24	19:42	24°♎17'41	-4.9m
asc. node	3030 Nov 27	11:24	25°♎27'20	
	3030 Dec 05	09:35	0°♏	
morning max el	3031 Jan 03	05:13	25°♏07'18	46°53'15
	3031 Jan 07	22:35	0°♐	
	3031 Feb 04	01:02	0°♑	
	3031 Mar 01	13:47	0°♒	
desc. node	3031 Mar 19	01:21	21°♒00'00	
	3031 Mar 26	11:55	0°♓	
	3031 Apr 20	03:59	0°♈	
	3031 May 14	17:53	0°♉	
	3031 Jun 08	07:11	0°♊	
	3031 Jul 02	19:47	0°♋	
morning set	3031 Jul 07	04:35	5°♋20'57	
asc. node	3031 Jul 10	04:22	9°♋00'54	
	3031 Jul 27	06:43	0°♌	
max. Earth dist.	3031 Aug 10	12:05	17°♌30'05	1.73384 AU
superior conj	3031 Aug 12	16:35	20°♌11'51	1°08'42
minimum elong	3031 Aug 12	08:06	19°♌45'41	1°08'27
	3031 Aug 20	15:22	0°♍	
	3031 Sep 13	22:02	0°♎	
evening rise	3031 Sep 17	19:17	4°♎48'28	
	3031 Oct 08	03:45	0°♏	
desc. node	3031 Oct 29	18:11	26°♏44'08	
	3031 Nov 01	09:31	0°♐	
	3031 Nov 25	16:00	0°♑	

	3031 Dec 20 00:20	0°♒	
	3032 Jan 13 13:43	0°♓	
	3032 Feb 07 15:41	0°♈	
asc. node	3032 Feb 19 21:02	14°♈11'37	
	3032 Mar 04 23:11	0°♉	
evening max el	3032 Mar 22 08:35	18°♉16'39	46°25'33
	3032 Apr 03 18:07	0°♊	
greatest brilliancy	3032 Apr 30 07:56	17°♊56'57	-4.8m
retrograde	3032 May 11 05:39	20°♊08'42	
evening set	3032 May 26 14:03	15°♊31'22	
inferior conj	3032 Jun 01 13:50	11°♊54'14	2°06'17
minimum elong	3032 Jun 01 18:24	11°♊47'06	2°04'57
min. Earth dist.	3032 Jun 01 11:43	11°♊57'33	0.28629 AU
morning rise	3032 Jun 07 23:05	8°♊04'35	
desc. node	3032 Jun 10 10:36	6°♊48'07	
direct	3032 Jun 22 22:57	3°♊42'30	
greatest brilliancy	3032 Jul 03 01:31	5°♊33'15	-4.7m
	3032 Aug 07 01:49	0°♋	
morning max el	3032 Aug 10 17:07	3°♋24'54	45°43'10
	3032 Sep 05 14:28	0°♌	
asc. node	3032 Oct 01 14:01	29°♌13'52	
	3032 Oct 02 05:56	0°♍	
	3032 Oct 27 13:55	0°♎	
	3032 Nov 21 04:11	0°♏	
	3032 Dec 15 08:37	0°♐	
	3033 Jan 08 08:11	0°♑	
desc. node	3033 Jan 21 03:37	16°♑04'17	
	3033 Feb 01 05:50	0°♒	
morning set	3033 Feb 09 18:33	10°♒42'36	
	3033 Feb 25 03:23	0°♓	
	3033 Mar 21 02:17	0°♈	
superior conj	3033 Mar 22 17:35	2°♈02'49	-1°25'55
minimum elong	3033 Mar 22 20:09	2°♈10'48	1°25'55
max. Earth dist.	3033 Mar 26 14:27	6°♈52'50	1.71868 AU
	3033 Apr 14 03:55	0°♉	
evening rise	3033 May 01 07:03	21°♉14'16	
	3033 May 08 09:20	0°♊	
asc. node	3033 May 14 06:46	7°♊15'48	
	3033 Jun 01 19:08	0°♋	
	3033 Jun 26 09:49	0°♌	
	3033 Jul 21 06:40	0°♍	
	3033 Aug 15 12:36	0°♎	
desc. node	3033 Sep 02 20:21	21°♎21'32	
	3033 Sep 10 09:08	0°♏	
	3033 Oct 07 08:32	0°♐	
evening max el	3033 Oct 26 17:31	20°♐02'59	46°43'31
	3033 Nov 06 06:15	0°♑	
greatest brilliancy	3033 Dec 05 23:00	20°♑14'06	-4.9m
retrograde	3033 Dec 15 20:19	22°♑04'06	
asc. node	3033 Dec 24 23:20	20°♑21'42	
evening set	3033 Dec 30 03:37	17°♑59'32	
inferior conj	3034 Jan 05 08:15	14°♑22'22	2°54'49
minimum elong	3034 Jan 05 01:50	14°♑32'09	2°52'50
min. Earth dist.	3034 Jan 05 00:57	14°♑33'29	0.26494 AU
morning rise	3034 Jan 11 00:14	11°♑03'07	
direct	3034 Jan 25 18:47	6°♑44'22	
greatest brilliancy	3034 Feb 04 13:15	8°♑33'47	-4.9m
	3034 Mar 07 07:43	0°♒	
morning max el	3034 Mar 17 03:11	9°♒27'46	46°47'11
	3034 Apr 05 16:00	0°♓	
desc. node	3034 Apr 15 13:16	10°♓57'00	
	3034 May 02 07:06	0°♈	
	3034 May 27 23:44	0°♉	
	3034 Jun 22 05:59	0°♊	
	3034 Jul 17 05:39	0°♋	
asc. node	3034 Aug 06 16:18	24°♋46'18	
	3034 Aug 10 23:18	0°♌	
	3034 Sep 04 10:51	0°♍	
morning set	3034 Sep 13 05:20	10°♍49'10	
	3034 Sep 28 17:01	0°♎	
max. Earth dist.	3034 Oct 17 03:05	22°♎55'08	1.72166 AU
superior conj	3034 Oct 20 06:01	26°♎48'39	1°13'32
minimum elong	3034 Oct 20 14:39	27°♎15'36	1°13'19
	3034 Oct 22 19:22	0°♏	
	3034 Nov 15 19:37	0°♐	
desc. node	3034 Nov 26 06:02	13°♐03'11	
evening rise	3034 Nov 28 09:12	15°♐43'18	
	3034 Dec 09 18:54	0°♑	
	3035 Jan 02 18:05	0°♒	
	3035 Jan 26 18:30	0°♓	
	3035 Feb 19 22:52	0°♈	
	3035 Mar 16 11:43	0°♉	
asc. node	3035 Mar 19 09:02	3°♉29'19	
	3035 Apr 10 15:55	0°♊	
	3035 May 07 00:13	0°♋	
evening max el	3035 Jun 02 02:06	27°♋09'20	45°31'55
	3035 Jun 05 01:36	0°♌	
desc. node	3035 Jul 08 22:42	24°♌36'06	
greatest brilliancy	3035 Jul 10 01:50	25°♌02'05	-4.7m
retrograde	3035 Jul 20 18:13	27°♌04'56	
evening set	3035 Aug 06 02:50	22°♌00'57	
inferior conj	3035 Aug 11 06:40	18°♌52'36	-6°48'51
minimum elong	3035 Aug 10 21:03	19°♌07'40	6°47'09
min. Earth dist.	3035 Aug 11 05:15	18°♌54'49	0.29042 AU
morning rise	3035 Aug 15 15:10	16°♌11'58	
direct	3035 Sep 01 22:11	10°♌35'07	
greatest brilliancy	3035 Sep 12 10:02	12°♌34'14	-4.8m
	3035 Oct 09 00:02	0°♍	
morning max el	3035 Oct 21 08:13	11°♍28'11	46°10'54
asc. node	3035 Oct 30 01:42	20°♍18'43	
	3035 Nov 08 04:04	0°♎	
	3035 Dec 04 14:07	0°♏	
	3035 Dec 29 15:58	0°♐	
	3036 Jan 23 03:37	0°♑	
	3036 Feb 16 09:05	0°♒	
desc. node	3036 Feb 18 15:33	2°♒49'07	
	3036 Mar 11 12:17	0°♓	
	3036 Apr 04 15:26	0°♈	
morning set	3036 Apr 25 17:58	26°♈10'46	
	3036 Apr 28 20:02	0°♉	
	3036 May 23 02:47	0°♊	
superior conj	3036 Jun 02 14:32	12°♊55'36	-0°19'22
minimum elong	3036 Jun 02 18:40	13°♊08'18	0°19'11
max. Earth dist.	3036 Jun 04 08:45	15°♊05'35	1.73280 AU
asc. node	3036 Jun 10 18:34	22°♊58'52	
	3036 Jun 16 11:28	0°♋	
evening rise	3036 Jul 09 08:37	28°♋06'55	
	3036 Jul 10 21:27	0°♌	
	3036 Aug 04 08:29	0°♍	
	3036 Aug 28 21:14	0°♎	
	3036 Sep 22 13:04	0°♏	
desc. node	3036 Sep 30 08:20	9°♏26'46	
	3036 Oct 17 09:35	0°♐	
	3036 Nov 11 13:17	0°♑	
	3036 Dec 07 06:59	0°♒	
	3037 Jan 03 13:04	0°♓	
evening max el	3037 Jan 07 06:53	3°♓51'32	47°14'46
asc. node	3037 Jan 21 11:17	17°♓31'31	
	3037 Feb 06 08:41	0°♈	
greatest brilliancy	3037 Feb 16 23:32	5°♈32'06	-4.9m
retrograde	3037 Feb 27 04:37	7°♈31'40	

evening set	3037 Mar 17 06:18	1°♈14'31	
	3037 Mar 19 06:24	30℞♓	
min. Earth dist.	3037 Mar 19 14:58	29°♓46'36	0.27636 AU
inferior conj	3037 Mar 20 02:56	29°♓27'51	8°52'39
minimum elong	3037 Mar 20 04:33	29°♓25'18	8°52'38
morning rise	3037 Mar 23 02:58	27°♓36'15	
direct	3037 Apr 09 20:56	21°♓33'39	
greatest brilliancy	3037 Apr 19 02:41	23°♓08'49	-4.8m
	3037 May 02 13:07	0°♈	
desc. node	3037 May 13 00:50	7°♈49'49	
morning max el	3037 May 29 04:20	22°♈23'00	46°03'19
	3037 Jun 05 20:36	0°♉	
	3037 Jul 03 22:38	0°♊	
	3037 Jul 30 08:35	0°♋	
	3037 Aug 24 21:46	0°♌	
asc. node	3037 Sep 03 04:07	11°♌04'18	
	3037 Sep 18 20:17	0°♍	
	3037 Oct 13 07:44	0°♎	
	3037 Nov 06 11:31	0°♏	
morning set	3037 Nov 23 00:08	20°♏39'48	
	3037 Nov 30 10:51	0°♐	
desc. node	3037 Dec 23 17:51	29°♐15'36	
	3037 Dec 24 07:59	0°♑	
superior conj	3038 Jan 02 10:21	11°♑26'48	-0°23'02
minimum elong	3038 Jan 02 04:23	11°♑08'02	0°22'45
max. Earth dist.	3038 Jan 01 23:21	10°♑52'12	1.71121 AU
	3038 Jan 17 04:19	0°♒	
	3038 Feb 10 01:04	0°♓	
evening rise	3038 Feb 12 16:46	3°♓19'53	
	3038 Mar 05 23:54	0°♈	
	3038 Mar 30 03:03	0°♉	
asc. node	3038 Apr 15 20:53	20°♉37'19	
	3038 Apr 23 12:55	0°♊	
	3038 May 18 08:12	0°♋	
	3038 Jun 12 17:09	0°♌	
	3038 Jul 09 00:54	0°♍	
desc. node	3038 Aug 05 10:33	29°♍04'11	
	3038 Aug 06 08:59	0°♎	
evening max el	3038 Aug 12 04:54	5°♎40'49	45°39'46
	3038 Sep 11 21:43	0°♏	
greatest brilliancy	3038 Sep 20 20:21	3°♏58'28	-4.8m
retrograde	3038 Sep 30 01:12	5°♏31'08	
evening set	3038 Oct 17 05:36	29°♎57'47	
	3038 Oct 17 04:04	30℞♎	
inferior conj	3038 Oct 21 01:47	27°♎38'52	-7°34'34
minimum elong	3038 Oct 21 10:57	27°♎24'48	7°33'10
min. Earth dist.	3038 Oct 22 01:03	27°♎03'10	0.27842 AU
morning rise	3038 Oct 25 15:51	24°♎53'07	
direct	3038 Nov 11 04:24	19°♎35'48	
greatest brilliancy	3038 Nov 22 10:25	21°♎57'33	-4.9m
asc. node	3038 Nov 26 13:27	23°♎50'55	
	3038 Dec 06 09:07	0°♏	
morning max el	3038 Dec 31 20:44	22°♏48'11	46°52'34
	3039 Jan 07 18:56	0°♐	
	3039 Feb 03 16:33	0°♑	
	3039 Mar 01 03:19	0°♒	
desc. node	3039 Mar 18 03:24	20°♒27'37	
	3039 Mar 26 00:24	0°♓	
	3039 Apr 19 15:50	0°♈	
	3039 May 14 05:19	0°♉	
	3039 Jun 07 18:18	0°♊	
	3039 Jul 02 06:40	0°♋	
morning set	3039 Jul 04 22:17	3°♋14'49	
asc. node	3039 Jul 09 06:31	8°♋34'12	
	3039 Jul 26 17:30	0°♌	
max. Earth dist.	3039 Aug 08 10:15	15°♌37'19	1.73407 AU
superior conj	3039 Aug 10 10:41	18°♌06'28	1°06'46
minimum elong	3039 Aug 10 02:02	17°♌39'49	1°06'31
	3039 Aug 20 02:09	0°♍	
	3039 Sep 13 08:56	0°♎	
evening rise	3039 Sep 15 12:22	2°♎39'03	
	3039 Oct 07 14:53	0°♏	
desc. node	3039 Oct 28 20:09	26°♏15'02	
	3039 Oct 31 20:56	0°♐	
	3039 Nov 25 03:47	0°♑	
	3039 Dec 19 12:36	0°♒	
	3040 Jan 13 02:43	0°♓	
	3040 Feb 07 06:02	0°♈	
asc. node	3040 Feb 18 23:08	13°♈33'36	
	3040 Mar 04 16:38	0°♉	
evening max el	3040 Mar 20 00:45	16°♉03'10	46°27'48
	3040 Apr 03 23:16	0°♊	
greatest brilliancy	3040 Apr 28 00:15	15°♊45'19	-4.8m
retrograde	3040 May 08 22:23	17°♊57'04	
evening set	3040 May 24 07:56	13°♊17'27	
inferior conj	3040 May 30 05:50	9°♊42'35	2°26'04
minimum elong	3040 May 30 11:03	9°♊34'24	2°24'33
min. Earth dist.	3040 May 30 03:33	9°♊46'11	0.28608 AU
morning rise	3040 Jun 05 14:38	5°♊53'44	
desc. node	3040 Jun 09 12:46	3°♊58'01	
direct	3040 Jun 20 15:13	1°♊31'20	
greatest brilliancy	3040 Jun 30 16:13	3°♊21'09	-4.7m
	3040 Aug 07 01:31	0°♋	
morning max el	3040 Aug 08 09:26	1°♋15'37	45°42'53
	3040 Sep 05 06:32	0°♌	
asc. node	3040 Sep 30 16:00	28°♌40'08	
	3040 Oct 01 19:29	0°♍	
	3040 Oct 27 02:20	0°♎	
	3040 Nov 20 16:02	0°♏	
	3040 Dec 14 20:10	0°♐	
	3041 Jan 07 19:33	0°♑	
desc. node	3041 Jan 20 05:43	15°♑35'23	
	3041 Jan 31 17:04	0°♒	
morning set	3041 Feb 07 04:32	8°♒08'06	
	3041 Feb 24 14:30	0°♓	
superior conj	3041 Mar 20 05:49	29°♓36'36	-1°26'17
minimum elong	3041 Mar 20 07:24	29°♓41'33	1°26'17
	3041 Mar 20 13:19	0°♈	
max. Earth dist.	3041 Mar 24 05:08	4°♈34'26	1.71815 AU
	3041 Apr 13 14:53	0°♉	
evening rise	3041 Apr 28 21:38	18°♉56'59	
	3041 May 07 20:19	0°♊	
asc. node	3041 May 13 08:49	6°♊48'13	
	3041 Jun 01 06:16	0°♋	
	3041 Jun 25 21:17	0°♌	
	3041 Jul 20 18:41	0°♍	
	3041 Aug 15 01:34	0°♎	
desc. node	3041 Sep 01 22:21	20°♎46'49	
	3041 Sep 09 23:51	0°♏	
	3041 Oct 07 02:57	0°♐	
evening max el	3041 Oct 24 07:13	17°♐40'07	46°41'14
	3041 Nov 06 12:57	0°♑	
greatest brilliancy	3041 Dec 03 12:26	17°♑46'04	-4.9m
retrograde	3041 Dec 13 08:08	19°♑34'19	
asc. node	3041 Dec 24 01:29	17°♑14'36	
evening set	3041 Dec 27 15:03	15°♑31'35	
inferior conj	3042 Jan 02 20:27	11°♑53'21	2°31'17
minimum elong	3042 Jan 02 14:49	12°♑01'56	2°29'31
min. Earth dist.	3042 Jan 02 14:44	12°♑02'04	0.26487 AU
morning rise	3042 Jan 08 14:41	8°♑30'42	
direct	3042 Jan 23 07:04	4°♑15'22	
greatest brilliancy	3042 Feb 02 03:18	6°♑06'01	-4.9m

	3042 Mar 07 11:23	0°♒	
morning max el	3042 Mar 14 15:16	6°♒59'29	46°48'25
	3042 Apr 05 09:46	0°♓	
desc. node	3042 Apr 14 15:11	10°♓16'42	
	3042 May 01 21:36	0°♈	
	3042 May 27 12:39	0°♉	
	3042 Jun 21 18:00	0°♊	
	3042 Jul 16 17:08	0°♋	
asc. node	3042 Aug 05 18:18	24°♋18'14	
	3042 Aug 10 10:29	0°♌	
	3042 Sep 03 21:53	0°♍	
morning set	3042 Sep 10 22:18	8°♍39'23	
	3042 Sep 28 04:00	0°♎	
max. Earth dist.	3042 Oct 14 16:17	20°♎32'24	1.72217 AU
superior conj	3042 Oct 17 21:25	24°♎32'45	1°15'13
minimum elong	3042 Oct 18 05:36	24°♎58'14	1°15'01
	3042 Oct 22 06:24	0°♏	
	3042 Nov 15 06:45	0°♐	
desc. node	3042 Nov 25 08:08	12°♐34'43	
evening rise	3042 Nov 25 21:25	13°♐16'17	
	3042 Dec 09 06:12	0°♑	
	3043 Jan 02 05:35	0°♒	
	3043 Jan 26 06:13	0°♓	
	3043 Feb 19 10:54	0°♈	
	3043 Mar 16 00:18	0°♉	
asc. node	3043 Mar 18 10:59	2°♉57'00	
	3043 Apr 10 05:36	0°♊	
	3043 May 06 16:23	0°♋	
evening max el	3043 May 30 16:41	24°♋54'54	45°32'55
	3043 Jun 05 01:39	0°♌	
greatest brilliancy	3043 Jul 07 17:22	22°♌52'15	-4.7m
desc. node	3043 Jul 08 00:45	22°♌58'59	
retrograde	3043 Jul 18 10:02	24°♌55'59	
evening set	3043 Aug 03 16:12	19°♌55'43	
inferior conj	3043 Aug 08 23:02	16°♌43'15	-6°36'26
minimum elong	3043 Aug 08 13:16	16°♌58'33	6°34'36
min. Earth dist.	3043 Aug 08 21:20	16°♌45'55	0.29051 AU
morning rise	3043 Aug 13 10:12	13°♌58'39	
direct	3043 Aug 30 14:05	8°♌25'32	
greatest brilliancy	3043 Sep 10 02:38	10°♌24'49	-4.7m
	3043 Oct 09 03:57	0°♍	
morning max el	3043 Oct 18 22:44	9°♍11'26	46°09'24
asc. node	3043 Oct 29 03:45	19°♍33'54	
	3043 Nov 07 21:20	0°♎	
	3043 Dec 04 04:26	0°♏	
	3043 Dec 29 04:58	0°♐	
	3044 Jan 22 15:56	0°♑	
	3044 Feb 15 20:57	0°♒	
desc. node	3044 Feb 17 17:31	2°♒18'29	
	3044 Mar 10 23:49	0°♓	
	3044 Apr 04 02:44	0°♈	
morning set	3044 Apr 23 08:38	23°♈53'00	
	3044 Apr 28 07:08	0°♉	
	3044 May 22 13:45	0°♊	
superior conj	3044 May 31 07:18	10°♊45'50	-0°22'35
minimum elong	3044 May 31 12:06	11°♊00'36	0°22'22
max. Earth dist.	3044 Jun 02 02:58	13°♊00'18	1.73244 AU
asc. node	3044 Jun 09 20:45	22°♊32'04	
	3044 Jun 15 22:22	0°♋	
evening rise	3044 Jul 07 03:18	26°♋03'27	
	3044 Jul 10 08:23	0°♌	
	3044 Aug 03 19:35	0°♍	
	3044 Aug 28 08:40	0°♎	
	3044 Sep 22 01:04	0°♏	
desc. node	3044 Sep 29 10:17	8°♏55'49	
	3044 Oct 16 22:24	0°♐	
	3044 Nov 11 03:21	0°♑	
	3044 Dec 06 23:15	0°♒	
	3045 Jan 03 10:48	0°♓	
evening max el	3045 Jan 04 20:18	1°♓25'41	47°15'14
asc. node	3045 Jan 20 13:19	16°♓27'10	
	3045 Feb 07 21:43	0°♈	
greatest brilliancy	3045 Feb 14 14:00	3°♈08'56	-4.9m
retrograde	3045 Feb 24 18:57	5°♈08'58	
	3045 Mar 12 22:40	30°℞♓	
evening set	3045 Mar 14 20:18	28°♓52'03	
min. Earth dist.	3045 Mar 17 04:18	27°♓25'25	0.27591 AU
inferior conj	3045 Mar 17 16:59	27°♓05'36	8°54'24
minimum elong	3045 Mar 17 17:42	27°♓04'28	8°54'23
morning rise	3045 Mar 20 15:15	25°♓16'56	
direct	3045 Apr 07 10:06	19°♓11'55	
greatest brilliancy	3045 Apr 16 15:54	20°♓47'23	-4.8m
	3045 May 03 12:08	0°♈	
desc. node	3045 May 12 03:00	6°♈45'25	
morning max el	3045 May 26 19:03	20°♈06'08	46°04'51
	3045 Jun 05 16:48	0°♉	
	3045 Jul 03 13:51	0°♊	
	3045 Jul 29 21:44	0°♋	
	3045 Aug 24 09:50	0°♌	
asc. node	3045 Sep 02 06:08	10°♌34'52	
	3045 Sep 18 07:47	0°♍	
	3045 Oct 12 18:57	0°♎	
	3045 Nov 05 22:40	0°♏	
morning set	3045 Nov 20 13:32	18°♏16'32	
	3045 Nov 29 21:59	0°♐	
desc. node	3045 Dec 22 19:59	28°♐47'12	
	3045 Dec 23 19:09	0°♑	
superior conj	3045 Dec 30 20:30	8°♑52'34	-0°19'09
minimum elong	3045 Dec 30 15:30	8°♑36'52	0°18'54
max. Earth dist.	3045 Dec 30 08:09	8°♑13'43	1.71135 AU
	3046 Jan 16 15:30	0°♒	
	3046 Feb 09 12:16	0°♓	
evening rise	3046 Feb 10 02:56	0°♓46'02	
	3046 Mar 05 11:10	0°♈	
	3046 Mar 29 14:27	0°♉	
asc. node	3046 Apr 14 23:00	20°♉08'25	
	3046 Apr 23 00:34	0°♊	
	3046 May 17 20:23	0°♋	
	3046 Jun 12 06:20	0°♌	
	3046 Jul 08 16:15	0°♍	
desc. node	3046 Aug 04 12:33	28°♍17'34	
	3046 Aug 06 06:10	0°♎	
evening max el	3046 Aug 09 20:06	3°♎27'45	45°38'29
	3046 Sep 14 00:36	0°♏	
greatest brilliancy	3046 Sep 18 08:39	1°♏40'14	-4.8m
retrograde	3046 Sep 27 15:30	3°♏14'00	
	3046 Oct 10 11:55	30°℞♎	
evening set	3046 Oct 14 22:29	27°♎36'10	
inferior conj	3046 Oct 18 16:06	25°♎20'41	-7°44'42
minimum elong	3046 Oct 19 00:48	25°♎07'18	7°43'28
min. Earth dist.	3046 Oct 19 14:32	24°♎46'12	0.27913 AU
morning rise	3046 Oct 23 02:46	22°♎39'46	
direct	3046 Nov 08 20:02	17°♎16'50	
greatest brilliancy	3046 Nov 20 00:42	19°♎37'29	-4.9m
asc. node	3046 Nov 25 15:37	22°♎18'22	
	3046 Dec 07 02:27	0°♏	
morning max el	3046 Dec 29 12:12	20°♏28'46	46°51'27
	3047 Jan 07 14:47	0°♐	
	3047 Feb 03 08:03	0°♑	
	3047 Feb 28 16:56	0°♒	
desc. node	3047 Mar 17 05:25	19°♒54'44	

	3047 Mar 25 12:59	0°♓	
	3047 Apr 19 03:44	0°♈	
	3047 May 13 16:44	0°♉	
	3047 Jun 07 05:23	0°♊	
	3047 Jul 01 17:32	0°♋	
morning set	3047 Jul 02 16:09	1°♋09'19	
asc. node	3047 Jul 08 08:30	8°♋07'06	
	3047 Jul 26 04:15	0°♌	
max. Earth dist.	3047 Aug 06 07:39	13°♌42'22	1.73424 AU
superior conj	3047 Aug 08 05:05	16°♌02'13	1°04'47
minimum elong	3047 Aug 07 20:19	15°♌35'14	1°04'30
	3047 Aug 19 12:54	0°♍	
	3047 Sep 12 19:47	0°♎	
evening rise	3047 Sep 13 05:53	0°♎31'16	
	3047 Oct 07 01:54	0°♏	
desc. node	3047 Oct 27 22:19	25°♏46'55	
	3047 Oct 31 08:15	0°♐	
	3047 Nov 24 15:30	0°♑	
	3047 Dec 19 00:53	0°♒	
	3048 Jan 12 15:50	0°♓	
	3048 Feb 06 20:37	0°♈	
asc. node	3048 Feb 18 01:04	12°♈54'28	
	3048 Mar 04 10:36	0°♉	
evening max el	3048 Mar 17 16:43	13°♉48'39	46°30'05
	3048 Apr 04 06:46	0°♊	
greatest brilliancy	3048 Apr 25 17:12	13°♊34'05	-4.8m
retrograde	3048 May 06 14:42	15°♊44'56	
evening set	3048 May 22 01:52	11°♊03'10	
inferior conj	3048 May 27 21:45	7°♊30'46	2°45'45
minimum elong	3048 May 28 03:36	7°♊21'35	2°44'05
min. Earth dist.	3048 May 27 19:25	7°♊34'25	0.28579 AU
morning rise	3048 Jun 03 05:51	3°♊42'46	
desc. node	3048 Jun 08 14:49	1°♊11'46	
	3048 Jun 12 12:35	30°℞♉	
direct	3048 Jun 18 07:14	29°♉20'13	
	3048 Jun 24 05:46	0°♊	
greatest brilliancy	3048 Jun 28 06:44	1°♊08'52	-4.7m
morning max el	3048 Aug 06 00:49	29°♊04'32	45°42'44
	3048 Aug 07 00:01	0°♋	
	3048 Sep 04 22:07	0°♌	
asc. node	3048 Sep 29 18:02	28°♌07'23	
	3048 Oct 01 08:42	0°♍	
	3048 Oct 26 14:28	0°♎	
	3048 Nov 20 03:36	0°♏	
	3048 Dec 14 07:26	0°♐	
	3049 Jan 07 06:40	0°♑	
desc. node	3049 Jan 19 07:41	15°♑06'47	
	3049 Jan 31 04:06	0°♒	
morning set	3049 Feb 04 14:22	5°♒33'44	
	3049 Feb 24 01:29	0°♓	
superior conj	3049 Mar 17 17:36	27°♓09'13	-1°26'28
minimum elong	3049 Mar 17 18:09	27°♓10'58	1°26'28
	3049 Mar 20 00:13	0°♈	
max. Earth dist.	3049 Mar 21 17:52	2°♈10'09	1.71764 AU
	3049 Apr 13 01:44	0°♉	
evening rise	3049 Apr 26 11:29	16°♉37'44	
	3049 May 07 07:11	0°♊	
asc. node	3049 May 12 10:56	6°♊21'14	
	3049 May 31 17:15	0°♋	
	3049 Jun 25 08:33	0°♌	
	3049 Jul 20 06:31	0°♍	
	3049 Aug 14 14:22	0°♎	
desc. node	3049 Sep 01 00:20	20°♎12'39	
	3049 Sep 09 14:26	0°♏	
	3049 Oct 06 21:25	0°♐	
evening max el	3049 Oct 21 20:13	15°♐16'46	46°39'01
	3049 Nov 06 21:28	0°♑	
greatest brilliancy	3049 Dec 01 02:22	15°♑20'21	-4.9m
retrograde	3049 Dec 10 19:52	17°♑06'46	
asc. node	3049 Dec 23 03:24	14°♑04'58	
evening set	3049 Dec 25 02:57	13°♑05'10	
inferior conj	3049 Dec 31 08:54	9°♑26'27	2°07'37
minimum elong	3049 Dec 31 04:06	9°♑33'46	2°06'05
min. Earth dist.	3049 Dec 31 04:58	9°♑32'27	0.26487 AU
morning rise	3050 Jan 06 05:13	6°♑00'42	
direct	3050 Jan 20 19:11	1°♑48'12	
greatest brilliancy	3050 Jan 30 18:01	3°♑40'45	-4.9m
	3050 Mar 07 13:01	0°♒	
morning max el	3050 Mar 12 03:12	4°♒31'44	46°49'26
	3050 Apr 05 02:49	0°♓	
desc. node	3050 Apr 13 17:21	9°♓38'12	
	3050 May 01 11:43	0°♈	
	3050 May 27 01:16	0°♉	
	3050 Jun 21 05:45	0°♊	
	3050 Jul 16 04:19	0°♋	
asc. node	3050 Aug 04 20:17	23°♋51'06	
	3050 Aug 09 21:20	0°♌	
	3050 Sep 03 08:34	0°♍	
morning set	3050 Sep 08 15:17	6°♍30'44	
	3050 Sep 27 14:39	0°♎	
max. Earth dist.	3050 Oct 12 07:50	18°♎18'07	1.72269 AU
superior conj	3050 Oct 15 13:03	22°♎18'37	1°16'45
minimum elong	3050 Oct 15 20:44	22°♎42'35	1°16'36
	3050 Oct 21 17:05	0°♏	
	3050 Nov 14 17:33	0°♐	
evening rise	3050 Nov 23 10:04	10°♐51'49	
desc. node	3050 Nov 24 10:11	12°♐07'13	
	3050 Dec 08 17:09	0°♑	
	3051 Jan 01 16:41	0°♒	
	3051 Jan 25 17:31	0°♓	
	3051 Feb 18 22:33	0°♈	
	3051 Mar 15 12:34	0°♉	
asc. node	3051 Mar 17 13:05	2°♉26'12	
	3051 Apr 09 19:04	0°♊	
	3051 May 06 08:32	0°♋	
evening max el	3051 May 28 07:27	22°♋41'44	45°34'00
	3051 Jun 05 02:35	0°♌	
greatest brilliancy	3051 Jul 05 08:29	20°♌42'37	-4.7m
desc. node	3051 Jul 07 02:44	21°♌18'59	
retrograde	3051 Jul 16 02:23	22°♌47'51	
evening set	3051 Aug 01 05:38	17°♌51'00	
inferior conj	3051 Aug 06 15:22	14°♌34'41	-6°23'26
minimum elong	3051 Aug 06 05:31	14°♌50'06	6°21'30
min. Earth dist.	3051 Aug 06 13:13	14°♌38'02	0.29056 AU
morning rise	3051 Aug 11 05:14	11°♌46'16	
direct	3051 Aug 28 05:58	6°♌16'48	
greatest brilliancy	3051 Sep 07 19:02	8°♌16'24	-4.7m
	3051 Oct 09 05:45	0°♍	
morning max el	3051 Oct 16 13:59	6°♍58'01	46°07'57
asc. node	3051 Oct 28 05:56	18°♍51'16	
	3051 Nov 07 13:47	0°♎	
	3051 Dec 03 18:09	0°♏	
	3051 Dec 28 17:29	0°♐	
	3052 Jan 22 03:47	0°♑	
	3052 Feb 15 08:22	0°♒	
desc. node	3052 Feb 16 19:33	1°♒49'24	
	3052 Mar 10 10:54	0°♓	
	3052 Apr 03 13:34	0°♈	
morning set	3052 Apr 20 23:18	21°♈36'25	
	3052 Apr 27 17:49	0°♉	
	3052 May 22 00:20	0°♊	

superior conj	3052 May 28 23:54	8°♊36'36	-0°25'48
minimum elong	3052 May 29 05:21	8°♊53'22	0°25'32
max. Earth dist.	3052 May 30 20:59	10°♊55'27	1.73214 AU
asc. node	3052 Jun 08 22:42	22°♊05'38	
	3052 Jun 15 08:56	0°♋	
evening rise	3052 Jul 04 21:45	24°♋00'15	
	3052 Jul 09 19:00	0°♌	
	3052 Aug 03 06:21	0°♍	
	3052 Aug 27 19:47	0°♎	
	3052 Sep 21 12:43	0°♏	
desc. node	3052 Sep 28 12:25	8°♏26'31	
	3052 Oct 16 10:53	0°♐	
	3052 Nov 10 17:07	0°♑	
	3052 Dec 06 15:23	0°♒	
evening max el	3053 Jan 02 10:39	29°♒03'27	47°15'34
	3053 Jan 03 08:56	0°♓	
asc. node	3053 Jan 19 15:21	15°♓22'15	
	3053 Feb 10 06:19	0°♈	
greatest brilliancy	3053 Feb 12 03:57	0°♈46'11	-4.9m
retrograde	3053 Feb 22 09:50	2°♈47'08	
	3053 Mar 06 00:55	30°℞♓	
evening set	3053 Mar 12 09:43	26°♓31'11	
min. Earth dist.	3053 Mar 14 17:14	25°♓05'31	0.27543 AU
inferior conj	3053 Mar 15 06:55	24°♓44'10	8°55'08
minimum elong	3053 Mar 15 06:45	24°♓44'25	8°55'08
morning rise	3053 Mar 18 03:57	22°♓57'41	
direct	3053 Apr 04 23:38	16°♓51'12	
greatest brilliancy	3053 Apr 14 04:24	18°♓26'18	-4.8m
	3053 May 04 04:34	0°♈	
desc. node	3053 May 11 05:02	5°♈43'38	
morning max el	3053 May 24 10:11	17°♈51'35	46°06'19
	3053 Jun 05 11:54	0°♉	
	3053 Jul 03 04:28	0°♊	
	3053 Jul 29 10:27	0°♋	
	3053 Aug 23 21:34	0°♌	
asc. node	3053 Sep 01 08:13	10°♌06'29	
	3053 Sep 17 18:59	0°♍	
	3053 Oct 12 05:52	0°♎	
	3053 Nov 05 09:28	0°♏	
morning set	3053 Nov 18 02:59	15°♏54'43	
	3053 Nov 29 08:47	0°♐	
desc. node	3053 Dec 21 21:52	28°♐19'09	
	3053 Dec 23 05:57	0°♑	
max. Earth dist.	3053 Dec 27 17:28	5°♑38'00	1.71151 AU
superior conj	3053 Dec 28 06:44	6°♑19'44	-0°15'15
minimum elong	3053 Dec 28 02:45	6°♑07'11	0°15'03
behind sun begin	3053 Dec 27 16:29	5°♑34'54	
behind sun end	3053 Dec 28 13:00	6°♑39'27	
	3054 Jan 16 02:21	0°♒	
evening rise	3054 Feb 07 13:10	28°♒13'16	
	3054 Feb 08 23:10	0°♓	
	3054 Mar 04 22:08	0°♈	
	3054 Mar 29 01:32	0°♉	
asc. node	3054 Apr 14 01:06	19°♉40'28	
	3054 Apr 22 11:54	0°♊	
	3054 May 17 08:15	0°♋	
	3054 Jun 11 19:18	0°♌	
	3054 Jul 08 07:33	0°♍	
desc. node	3054 Aug 03 14:35	27°♍30'49	
	3054 Aug 06 03:57	0°♎	
evening max el	3054 Aug 07 11:23	1°♎15'24	45°37'02
greatest brilliancy	3054 Sep 15 21:33	29°♎23'05	-4.8m
	3054 Sep 18 00:27	0°♏	
retrograde	3054 Sep 25 05:19	0°♏57'06	
	3054 Oct 02 03:49	30°℞♎	
evening set	3054 Oct 12 15:14	25°♎15'18	
inferior conj	3054 Oct 16 06:23	23°♎03'04	-7°54'08
minimum elong	3054 Oct 16 14:34	22°♎50'27	7°53'03
min. Earth dist.	3054 Oct 17 04:10	22°♎29'29	0.27979 AU
morning rise	3054 Oct 20 13:35	20°♎26'51	
direct	3054 Nov 06 11:26	14°♎58'33	
greatest brilliancy	3054 Nov 17 14:49	17°♎17'46	-4.9m
asc. node	3054 Nov 24 17:32	20°♎49'05	
	3054 Dec 07 15:07	0°♏	
morning max el	3054 Dec 27 02:41	18°♏07'38	46°50'19
	3055 Jan 07 09:48	0°♐	
	3055 Feb 02 23:03	0°♑	
	3055 Feb 28 06:11	0°♒	
desc. node	3055 Mar 16 07:29	19°♒22'52	
	3055 Mar 25 01:16	0°♓	
	3055 Apr 18 15:24	0°♈	
	3055 May 13 03:56	0°♉	
	3055 Jun 06 16:15	0°♊	
morning set	3055 Jun 30 10:07	29°♊04'40	
	3055 Jul 01 04:10	0°♋	
asc. node	3055 Jul 07 10:29	7°♋40'39	
	3055 Jul 25 14:48	0°♌	
max. Earth dist.	3055 Aug 04 04:03	11°♌44'53	1.73445 AU
superior conj	3055 Aug 05 23:30	13°♌58'37	1°02'42
minimum elong	3055 Aug 05 14:40	13°♌31'25	1°02'24
	3055 Aug 18 23:30	0°♍	
evening rise	3055 Sep 10 23:21	28°♍23'38	
	3055 Sep 12 06:32	0°♎	
	3055 Oct 06 12:52	0°♏	
desc. node	3055 Oct 27 00:19	25°♏18'26	
	3055 Oct 30 19:31	0°♐	
	3055 Nov 24 03:11	0°♑	
	3055 Dec 18 13:07	0°♒	
	3056 Jan 12 04:56	0°♓	
	3056 Feb 06 11:16	0°♈	
asc. node	3056 Feb 17 03:11	12°♈15'44	
	3056 Mar 04 04:53	0°♉	
evening max el	3056 Mar 15 07:49	11°♉31'58	46°32'18
	3056 Apr 04 16:57	0°♊	
greatest brilliancy	3056 Apr 23 10:44	11°♊23'27	-4.8m
retrograde	3056 May 04 06:33	13°♊32'47	
evening set	3056 May 19 19:54	8°♊48'42	
inferior conj	3056 May 25 13:39	5°♊19'03	3°05'18
minimum elong	3056 May 25 20:06	5°♊08'54	3°03'28
min. Earth dist.	3056 May 25 11:35	5°♊22'18	0.28549 AU
morning rise	3056 May 31 20:48	1°♊32'00	
	3056 Jun 03 21:32	30°℞♉	
desc. node	3056 Jun 07 16:45	28°♉29'55	
direct	3056 Jun 15 22:44	27°♉09'07	
greatest brilliancy	3056 Jun 25 21:33	28°♉56'56	-4.7m
	3056 Jun 28 15:00	0°♊	
morning max el	3056 Aug 03 15:26	26°♊51'44	45°42'41
	3056 Aug 06 21:34	0°♋	
	3056 Sep 04 13:25	0°♌	
asc. node	3056 Sep 28 20:09	27°♌35'05	
	3056 Sep 30 21:50	0°♍	
	3056 Oct 26 02:36	0°♎	
	3056 Nov 19 15:14	0°♏	
	3056 Dec 13 18:48	0°♐	
	3057 Jan 06 17:52	0°♑	
desc. node	3057 Jan 18 09:46	14°♑38'18	
	3057 Jan 30 15:12	0°♒	
morning set	3057 Feb 01 23:58	2°♒58'20	
	3057 Feb 23 12:29	0°♓	
superior conj	3057 Mar 15 05:13	24°♓41'13	-1°26'29
minimum elong	3057 Mar 15 04:43	24°♓39'41	1°26'30

max. Earth dist.	3057 Mar 19 04:43	29°♓39'50	1.71712 AU
	3057 Mar 19 11:10	0°♈	
	3057 Apr 12 12:39	0°♉	
evening rise	3057 Apr 24 01:12	14°♉17'44	
	3057 May 06 18:08	0°♊	
asc. node	3057 May 11 12:54	5°♊53'31	
	3057 May 31 04:21	0°♋	
	3057 Jun 24 19:57	0°♌	
	3057 Jul 19 18:28	0°♍	
	3057 Aug 14 03:19	0°♎	
desc. node	3057 Aug 31 02:30	19°♎38'27	
	3057 Sep 09 05:18	0°♏	
	3057 Oct 06 16:37	0°♐	
evening max el	3057 Oct 19 08:20	12°♐50'48	46°36'36
	3057 Nov 07 09:29	0°♑	
greatest brilliancy	3057 Nov 28 15:57	12°♑52'51	-4.9m
retrograde	3057 Dec 08 07:27	14°♑37'48	
asc. node	3057 Dec 22 05:29	10°♑48'38	
evening set	3057 Dec 22 14:44	10°♑36'32	
inferior conj	3057 Dec 28 21:03	6°♑57'52	1°43'21
minimum elong	3057 Dec 28 17:08	7°♑03'50	1°42'06
min. Earth dist.	3057 Dec 28 19:01	7°♑00'58	0.26493 AU
morning rise	3058 Jan 03 19:20	3°♑29'24	
	3058 Jan 12 12:29	30°℞♐	
direct	3058 Jan 18 06:51	29°♐19'01	
	3058 Jan 24 04:59	0°♑	
greatest brilliancy	3058 Jan 28 08:44	1°♑14'02	-4.9m
	3058 Mar 07 13:47	0°♒	
morning max el	3058 Mar 09 15:45	2°♒04'27	46°50'36
	3058 Apr 04 19:47	0°♓	
desc. node	3058 Apr 12 19:24	8°♓59'07	
	3058 May 01 01:52	0°♈	
	3058 May 26 14:00	0°♉	
	3058 Jun 20 17:38	0°♊	
	3058 Jul 15 15:42	0°♋	
asc. node	3058 Aug 03 22:26	23°♋23'46	
	3058 Aug 09 08:23	0°♌	
	3058 Sep 02 19:27	0°♍	
morning set	3058 Sep 06 08:32	4°♍22'16	
	3058 Sep 27 01:29	0°♎	
max. Earth dist.	3058 Oct 10 01:41	16°♎10'22	1.72321 AU
superior conj	3058 Oct 13 04:56	20°♎04'41	1°18'10
minimum elong	3058 Oct 13 12:05	20°♎26'55	1°18'01
	3058 Oct 21 04:00	0°♏	
	3058 Nov 14 04:37	0°♐	
evening rise	3058 Nov 20 22:55	8°♐27'11	
desc. node	3058 Nov 23 12:10	11°♐38'37	
	3058 Dec 08 04:25	0°♑	
	3059 Jan 01 04:09	0°♒	
	3059 Jan 25 05:13	0°♓	
	3059 Feb 18 10:36	0°♈	
	3059 Mar 15 01:15	0°♉	
asc. node	3059 Mar 16 15:09	1°♉54'05	
	3059 Apr 09 08:59	0°♊	
	3059 May 06 01:19	0°♋	
evening max el	3059 May 25 22:56	20°♋29'25	45°35'17
	3059 Jun 05 05:21	0°♌	
greatest brilliancy	3059 Jul 02 23:12	18°♌31'37	-4.7m
desc. node	3059 Jul 06 04:50	19°♌34'29	
retrograde	3059 Jul 13 19:05	20°♌38'43	
evening set	3059 Jul 29 19:10	15°♌45'07	
inferior conj	3059 Aug 04 07:38	12°♌25'02	-6°09'47
minimum elong	3059 Aug 03 21:46	12°♌40'28	6°07'46
min. Earth dist.	3059 Aug 04 04:48	12°♌29'28	0.29057 AU
morning rise	3059 Aug 09 00:15	9°♌32'52	
direct	3059 Aug 25 22:12	4°♌07'02	
greatest brilliancy	3059 Sep 05 10:52	6°♌06'30	-4.7m
	3059 Oct 09 06:36	0°♍	
morning max el	3059 Oct 14 06:11	4°♍46'15	46°06'36
asc. node	3059 Oct 27 07:49	18°♍07'34	
	3059 Nov 07 06:14	0°♎	
	3059 Dec 03 08:02	0°♏	
	3059 Dec 28 06:15	0°♐	
	3060 Jan 21 15:57	0°♑	
	3060 Feb 14 20:09	0°♒	
desc. node	3060 Feb 15 21:41	1°♒19'23	
	3060 Mar 09 22:24	0°♓	
	3060 Apr 03 00:50	0°♈	
morning set	3060 Apr 18 13:25	19°♈16'50	
	3060 Apr 27 04:54	0°♉	
	3060 May 21 11:18	0°♊	
superior conj	3060 May 26 16:06	6°♊24'53	-0°28'59
minimum elong	3060 May 26 22:10	6°♊43'36	0°28'42
max. Earth dist.	3060 May 28 16:21	8°♊53'35	1.73179 AU
asc. node	3060 Jun 08 00:42	21°♊38'14	
	3060 Jun 14 19:51	0°♋	
evening rise	3060 Jul 02 16:04	21°♋55'33	
	3060 Jul 09 05:58	0°♌	
	3060 Aug 02 17:32	0°♍	
	3060 Aug 27 07:19	0°♎	
	3060 Sep 21 00:48	0°♏	
desc. node	3060 Sep 27 14:26	7°♏55'39	
	3060 Oct 15 23:48	0°♐	
	3060 Nov 10 07:21	0°♑	
	3060 Dec 06 08:08	0°♒	
evening max el	3060 Dec 31 01:48	26°♒42'09	47°15'38
	3061 Jan 03 08:26	0°♓	
asc. node	3061 Jan 18 17:24	14°♓14'21	
greatest brilliancy	3061 Feb 09 17:31	28°♓21'18	-4.9m
	3061 Feb 15 15:45	0°♈	
retrograde	3061 Feb 20 00:38	0°♈23'01	
	3061 Feb 24 07:20	30°℞♓	
evening set	3061 Mar 09 22:27	24°♓09'00	
min. Earth dist.	3061 Mar 12 05:50	22°♓43'36	0.27496 AU
inferior conj	3061 Mar 12 20:38	22°♓20'32	8°54'52
minimum elong	3061 Mar 12 19:35	22°♓22'10	8°54'51
morning rise	3061 Mar 15 16:54	20°♓35'24	
direct	3061 Apr 02 13:25	14°♓28'28	
greatest brilliancy	3061 Apr 11 16:26	16°♓02'36	-4.8m
	3061 May 04 17:37	0°♈	
desc. node	3061 May 10 06:59	4°♈41'26	
morning max el	3061 May 22 01:11	15°♈35'02	46°07'46
	3061 Jun 05 07:03	0°♉	
	3061 Jul 02 19:21	0°♊	
	3061 Jul 28 23:28	0°♋	
	3061 Aug 23 09:36	0°♌	
asc. node	3061 Aug 31 10:14	9°♌36'57	
	3061 Sep 17 06:30	0°♍	
	3061 Oct 11 17:08	0°♎	
	3061 Nov 04 20:38	0°♏	
morning set	3061 Nov 15 16:54	13°♏33'16	
	3061 Nov 28 19:54	0°♐	
desc. node	3061 Dec 21 00:01	27°♐50'58	
	3061 Dec 22 17:05	0°♑	
max. Earth dist.	3061 Dec 25 01:52	2°♑58'30	1.71164 AU
superior conj	3061 Dec 25 17:32	3°♑47'46	-0°11'21
minimum elong	3061 Dec 25 14:33	3°♑38'23	0°11'13
behind sun begin	3061 Dec 24 19:21	2°♑38'01	
behind sun end	3061 Dec 26 09:46	4°♑38'46	
	3062 Jan 15 13:30	0°♒	
evening rise	3062 Feb 04 23:40	25°♒40'22	

	3062 Feb 08 10:23	0°♓	
	3062 Mar 04 09:27	0°♈	
	3062 Mar 28 13:00	0°♉	
asc. node	3062 Apr 13 03:00	19°♉10'42	
	3062 Apr 21 23:40	0°♊	
	3062 May 16 20:35	0°♋	
	3062 Jun 11 08:47	0°♌	
	3062 Jul 07 23:31	0°♍	
desc. node	3062 Aug 02 16:41	26°♍42'28	
evening max el	3062 Aug 05 02:11	29°♍00'54	45°35'42
	3062 Aug 06 03:03	0°♎	
greatest brilliancy	3062 Sep 13 11:04	27°♎06'03	-4.8m
retrograde	3062 Sep 22 18:44	28°♎39'53	
evening set	3062 Oct 10 07:58	22°♎54'22	
inferior conj	3062 Oct 13 20:50	20°♎45'12	-8°02'39
minimum elong	3062 Oct 14 04:27	20°♎33'25	8°01'44
min. Earth dist.	3062 Oct 14 18:17	20°♎12'02	0.28044 AU
morning rise	3062 Oct 18 00:38	18°♎13'32	
direct	3062 Nov 04 02:33	12°♎39'52	
greatest brilliancy	3062 Nov 15 05:35	14°♎58'09	-4.9m
asc. node	3062 Nov 23 19:36	19°♎22'10	
	3062 Dec 08 00:53	0°♏	
morning max el	3062 Dec 24 16:30	15°♏43'59	46°49'21
	3063 Jan 07 04:36	0°♐	
	3063 Feb 02 14:06	0°♑	
	3063 Feb 27 19:35	0°♒	
desc. node	3063 Mar 15 09:31	18°♒50'20	
	3063 Mar 24 13:44	0°♓	
	3063 Apr 18 03:16	0°♈	
	3063 May 12 15:24	0°♉	
	3063 Jun 06 03:24	0°♊	
morning set	3063 Jun 28 03:53	26°♊58'28	
	3063 Jun 30 15:07	0°♋	
asc. node	3063 Jul 06 12:39	7°♋13'48	
	3063 Jul 25 01:39	0°♌	
max. Earth dist.	3063 Aug 01 23:14	9°♌42'55	1.73461 AU
superior conj	3063 Aug 03 17:48	11°♌53'54	1°00'31
minimum elong	3063 Aug 03 08:57	11°♌26'40	1°00'14
	3063 Aug 18 10:21	0°♍	
evening rise	3063 Sep 08 16:51	26°♍15'32	
	3063 Sep 11 17:31	0°♎	
	3063 Oct 06 00:05	0°♏	
desc. node	3063 Oct 26 02:17	24°♏49'04	
	3063 Oct 30 07:04	0°♐	
	3063 Nov 23 15:09	0°♑	
	3063 Dec 18 01:39	0°♒	
	3064 Jan 11 18:19	0°♓	
	3064 Feb 06 02:14	0°♈	
asc. node	3064 Feb 16 05:14	11°♈36'06	
	3064 Mar 03 23:44	0°♉	
evening max el	3064 Mar 12 22:04	9°♉12'49	46°34'30
	3064 Apr 05 06:45	0°♊	
greatest brilliancy	3064 Apr 21 04:25	9°♊12'45	-4.8m
retrograde	3064 May 01 22:18	11°♊20'41	
evening set	3064 May 17 14:08	6°♊33'50	
inferior conj	3064 May 23 05:42	3°♊07'19	3°24'25
minimum elong	3064 May 23 12:43	2°♊56'15	3°22'28
min. Earth dist.	3064 May 23 04:09	3°♊09'45	0.28524 AU
	3064 May 28 08:17	30°℞♉	
morning rise	3064 May 29 11:43	29°♉21'26	
desc. node	3064 Jun 06 18:54	25°♉52'28	
direct	3064 Jun 13 13:55	24°♉57'44	
greatest brilliancy	3064 Jun 23 13:09	26°♉45'28	-4.7m
	3064 Jun 30 19:49	0°♊	
morning max el	3064 Aug 01 06:12	24°♊38'37	45°42'42
	3064 Aug 06 18:33	0°♋	
	3064 Sep 04 04:41	0°♌	
asc. node	3064 Sep 27 22:07	27°♌02'02	
	3064 Sep 30 11:00	0°♍	
	3064 Oct 25 14:47	0°♎	
	3064 Nov 19 02:55	0°♏	
	3064 Dec 13 06:13	0°♐	
	3065 Jan 06 05:09	0°♑	
desc. node	3065 Jan 17 11:50	14°♑09'34	
morning set	3065 Jan 30 09:39	0°♒22'48	
	3065 Jan 30 02:23	0°♒	
	3065 Feb 22 23:35	0°♓	
superior conj	3065 Mar 12 16:59	22°♓13'28	-1°26'20
minimum elong	3065 Mar 12 15:28	22°♓08'42	1°26'20
max. Earth dist.	3065 Mar 16 12:44	27°♓00'30	1.71657 AU
	3065 Mar 18 22:09	0°♈	
	3065 Apr 11 23:34	0°♉	
evening rise	3065 Apr 21 15:03	11°♉58'04	
	3065 May 06 05:05	0°♊	
asc. node	3065 May 10 14:57	5°♊26'07	
	3065 May 30 15:27	0°♋	
	3065 Jun 24 07:23	0°♌	
	3065 Jul 19 06:29	0°♍	
	3065 Aug 13 16:24	0°♎	
desc. node	3065 Aug 30 04:28	19°♎03'20	
	3065 Sep 08 20:25	0°♏	
	3065 Oct 06 12:22	0°♐	
evening max el	3065 Oct 16 20:45	10°♐25'55	46°34'21
	3065 Nov 08 01:21	0°♑	
greatest brilliancy	3065 Nov 26 05:06	10°♑25'18	-4.9m
retrograde	3065 Dec 05 19:33	12°♑09'31	
evening set	3065 Dec 20 02:51	8°♑07'56	
asc. node	3065 Dec 21 07:35	7°♑29'05	
inferior conj	3065 Dec 26 09:17	4°♑29'38	1°19'01
minimum elong	3065 Dec 26 06:15	4°♑34'14	1°18'02
min. Earth dist.	3065 Dec 26 08:55	4°♑30'12	0.26505 AU
morning rise	3066 Jan 01 09:23	0°♑58'56	
	3066 Jan 03 07:26	30°℞♐	
direct	3066 Jan 15 19:03	26°♐50'03	
greatest brilliancy	3066 Jan 25 23:19	28°♐47'29	-4.9m
	3066 Jan 28 21:42	0°♑	
morning max el	3066 Mar 07 05:34	29°♑40'24	46°51'45
	3066 Mar 07 13:21	0°♒	
	3066 Apr 04 12:23	0°♓	
desc. node	3066 Apr 11 21:20	8°♓20'12	
	3066 Apr 30 15:48	0°♈	
	3066 May 26 02:32	0°♉	
	3066 Jun 20 05:22	0°♊	
	3066 Jul 15 02:55	0°♋	
asc. node	3066 Aug 03 00:24	22°♋56'22	
	3066 Aug 08 19:19	0°♌	
	3066 Sep 02 06:14	0°♍	
morning set	3066 Sep 04 01:53	2°♍14'29	
	3066 Sep 26 12:14	0°♎	
max. Earth dist.	3066 Oct 07 19:21	14°♎02'25	1.72370 AU
superior conj	3066 Oct 10 20:54	17°♎51'20	1°19'26
minimum elong	3066 Oct 11 03:27	18°♎11'42	1°19'19
	3066 Oct 20 14:48	0°♏	
	3066 Nov 13 15:34	0°♐	
evening rise	3066 Nov 18 11:50	6°♐03'19	
desc. node	3066 Nov 22 14:17	11°♐10'52	
	3066 Dec 07 15:32	0°♑	
	3066 Dec 31 15:28	0°♒	
	3067 Jan 24 16:47	0°♓	
	3067 Feb 17 22:33	0°♈	
	3067 Mar 14 13:52	0°♉	

asc. node	3067 Mar 15 17:05	1°♉21'50	
	3067 Apr 08 22:53	0°♊	
	3067 May 05 18:13	0°♋	
evening max el	3067 May 23 15:22	18°♋20'08	45°36'40
	3067 Jun 05 09:25	0°♌	
greatest brilliancy	3067 Jun 30 14:01	16°♌21'54	-4.7m
desc. node	3067 Jul 05 06:52	17°♌47'16	
retrograde	3067 Jul 11 12:02	18°♌30'41	
evening set	3067 Jul 27 09:02	13°♌40'24	
inferior conj	3067 Aug 02 00:03	10°♌16'34	-5°55'44
minimum elong	3067 Aug 01 14:12	10°♌31'56	5°53'39
min. Earth dist.	3067 Aug 01 20:20	10°♌22'22	0.29057 AU
morning rise	3067 Aug 06 19:22	7°♌20'40	
direct	3067 Aug 23 15:01	1°♌58'39	
greatest brilliancy	3067 Sep 03 02:16	3°♌57'13	-4.7m
	3067 Oct 09 06:01	0°♍	
morning max el	3067 Oct 11 22:48	2°♍36'26	46°05'05
asc. node	3067 Oct 26 09:55	17°♍25'31	
	3067 Nov 06 22:12	0°♎	
	3067 Dec 02 21:38	0°♏	
	3067 Dec 27 18:46	0°♐	
	3068 Jan 21 03:52	0°♑	
	3068 Feb 14 07:40	0°♒	
desc. node	3068 Feb 14 23:39	0°♒49'46	
	3068 Mar 09 09:38	0°♓	
	3068 Apr 02 11:51	0°♈	
morning set	3068 Apr 16 03:25	16°♈57'26	
	3068 Apr 26 15:46	0°♉	
	3068 May 20 22:02	0°♊	
superior conj	3068 May 24 08:15	4°♊13'37	-0°32'09
minimum elong	3068 May 24 14:56	4°♊34'14	0°31'51
max. Earth dist.	3068 May 26 12:44	6°♊55'29	1.73140 AU
asc. node	3068 Jun 07 02:52	21°♊12'05	
	3068 Jun 14 06:30	0°♋	
evening rise	3068 Jun 30 10:27	19°♋51'56	
	3068 Jul 08 16:40	0°♌	
	3068 Aug 02 04:24	0°♍	
	3068 Aug 26 18:34	0°♎	
	3068 Sep 20 12:38	0°♏	
desc. node	3068 Sep 26 16:25	7°♏25'25	
	3068 Oct 15 12:30	0°♐	
	3068 Nov 09 21:29	0°♑	
	3068 Dec 06 00:58	0°♒	
evening max el	3068 Dec 28 17:20	24°♒22'33	47°15'38
	3069 Jan 03 08:42	0°♓	
asc. node	3069 Jan 17 19:26	13°♓05'19	
greatest brilliancy	3069 Feb 07 07:27	25°♓57'39	-4.9m
retrograde	3069 Feb 17 15:11	27°♓59'27	
evening set	3069 Mar 07 10:44	21°♓48'26	
inferior conj	3069 Mar 10 10:21	19°♓57'42	8°53'42
minimum elong	3069 Mar 10 08:23	20°♓00'45	8°53'39
min. Earth dist.	3069 Mar 09 18:33	20°♓22'19	0.27447 AU
morning rise	3069 Mar 13 06:15	18°♓13'08	
direct	3069 Mar 31 03:12	12°♓06'44	
greatest brilliancy	3069 Apr 09 04:32	13°♓39'41	-4.8m
	3069 May 05 02:55	0°♈	
desc. node	3069 May 09 09:10	3°♈42'10	
morning max el	3069 May 19 15:36	13°♈17'50	46°09'10
	3069 Jun 05 01:21	0°♉	
	3069 Jul 02 09:43	0°♊	
	3069 Jul 28 12:04	0°♋	
	3069 Aug 22 21:15	0°♌	
asc. node	3069 Aug 30 12:14	9°♌08'29	
	3069 Sep 16 17:38	0°♍	
	3069 Oct 11 04:02	0°♎	
	3069 Nov 04 07:27	0°♏	
morning set	3069 Nov 13 06:53	11°♏13'03	
	3069 Nov 28 06:44	0°♐	
desc. node	3069 Dec 20 02:07	27°♐23'25	
	3069 Dec 22 03:57	0°♑	
max. Earth dist.	3069 Dec 22 06:30	0°♑08'01	1.71183 AU
superior conj	3069 Dec 23 04:15	1°♑16'23	-0°07'27
minimum elong	3069 Dec 23 02:18	1°♑10'14	0°07'21
behind sun begin	3069 Dec 22 02:47	29°♐56'22	
behind sun end	3069 Dec 24 01:48	2°♑24'07	
	3070 Jan 15 00:24	0°♒	
evening rise	3070 Feb 02 09:44	23°♒06'49	
	3070 Feb 07 21:21	0°♓	
	3070 Mar 03 20:29	0°♈	
	3070 Mar 28 00:11	0°♉	
asc. node	3070 Apr 12 05:08	18°♉42'25	
	3070 Apr 21 11:10	0°♊	
	3070 May 16 08:42	0°♋	
	3070 Jun 10 22:05	0°♌	
	3070 Jul 07 15:25	0°♍	
desc. node	3070 Aug 01 18:42	25°♍54'06	
evening max el	3070 Aug 02 16:17	26°♍45'47	45°34'31
	3070 Aug 06 02:45	0°♎	
greatest brilliancy	3070 Sep 11 00:54	24°♎50'55	-4.8m
retrograde	3070 Sep 20 08:09	26°♎24'39	
evening set	3070 Oct 08 00:36	20°♎35'38	
inferior conj	3070 Oct 11 11:29	18°♎29'19	-8°10'11
minimum elong	3070 Oct 11 18:28	18°♎18'30	8°09'27
min. Earth dist.	3070 Oct 12 08:45	17°♎56'24	0.28108 AU
morning rise	3070 Oct 15 12:00	16°♎02'08	
direct	3070 Nov 01 17:20	10°♎23'02	
greatest brilliancy	3070 Nov 12 21:00	12°♎41'07	-4.8m
asc. node	3070 Nov 22 21:44	17°♎59'38	
	3070 Dec 08 07:27	0°♏	
morning max el	3070 Dec 22 05:58	13°♏20'33	46°48'10
	3071 Jan 06 22:35	0°♐	
	3071 Feb 02 04:42	0°♑	
	3071 Feb 27 08:39	0°♒	
desc. node	3071 Mar 14 11:32	18°♒18'33	
	3071 Mar 24 01:54	0°♓	
	3071 Apr 17 14:51	0°♈	
	3071 May 12 02:32	0°♉	
	3071 Jun 05 14:14	0°♊	
morning set	3071 Jun 25 21:25	24°♊52'26	
	3071 Jun 30 01:46	0°♋	
asc. node	3071 Jul 05 14:36	6°♋47'13	
	3071 Jul 24 12:14	0°♌	
max. Earth dist.	3071 Jul 30 17:54	7°♌40'12	1.73478 AU
superior conj	3071 Aug 01 12:07	9°♌50'05	0°58'16
minimum elong	3071 Aug 01 03:17	9°♌22'56	0°57'57
	3071 Aug 17 20:57	0°♍	
evening rise	3071 Sep 06 10:35	24°♍09'08	
	3071 Sep 11 04:13	0°♎	
	3071 Oct 05 10:59	0°♏	
desc. node	3071 Oct 25 04:27	24°♏21'25	
	3071 Oct 29 18:16	0°♐	
	3071 Nov 23 02:47	0°♑	
	3071 Dec 17 13:55	0°♒	
	3072 Jan 11 07:31	0°♓	
	3072 Feb 05 17:10	0°♈	
asc. node	3072 Feb 15 07:11	10°♈56'17	
	3072 Mar 03 18:58	0°♉	
evening max el	3072 Mar 10 11:53	6°♉52'47	46°36'45
	3072 Apr 06 01:13	0°♊	
greatest brilliancy	3072 Apr 18 21:32	7°♊01'12	-4.8m
retrograde	3072 Apr 29 13:59	9°♊08'28	

evening set	3072 May 15	08:12	4°♊18'19	
inferior conj	3072 May 20	21:31	0°♊55'18	3°43'21
minimum elong	3072 May 21	05:04	0°♊43'25	3°41'18
min. Earth dist.	3072 May 20	20:27	0°♊56'59	0.28499 AU
	3072 May 22	08:44	30°℞♉	
morning rise	3072 May 27	02:15	27°♉11'03	
desc. node	3072 Jun 05	20:57	23°♉19'32	
direct	3072 Jun 11	04:37	22°♉45'55	
greatest brilliancy	3072 Jun 21	04:45	24°♉34'09	-4.7m
	3072 Jul 02	06:16	0°♊	
morning max el	3072 Jul 29	21:23	22°♊27'00	45°42'50
	3072 Aug 06	14:39	0°♋	
	3072 Sep 03	19:32	0°♌	
asc. node	3072 Sep 27	00:09	26°♌30'03	
	3072 Sep 29	23:51	0°♍	
	3072 Oct 25	02:40	0°♎	
	3072 Nov 18	14:18	0°♏	
	3072 Dec 12	17:20	0°♐	
	3073 Jan 05	16:08	0°♑	
desc. node	3073 Jan 16	13:49	13°♑41'25	
morning set	3073 Jan 27	19:29	27°♑48'35	
	3073 Jan 29	13:18	0°♒	
	3073 Feb 22	10:26	0°♓	
superior conj	3073 Mar 10	04:27	19°♓45'11	-1°26'01
minimum elong	3073 Mar 10	01:53	19°♓37'09	1°26'00
max. Earth dist.	3073 Mar 13	18:15	24°♓13'48	1.71613 AU
	3073 Mar 18	08:58	0°♈	
	3073 Apr 11	10:22	0°♉	
evening rise	3073 Apr 19	04:23	9°♉37'10	
	3073 May 05	15:56	0°♊	
asc. node	3073 May 09	17:03	4°♊59'11	
	3073 May 30	02:28	0°♋	
	3073 Jun 23	18:43	0°♌	
	3073 Jul 18	18:27	0°♍	
	3073 Aug 13	05:29	0°♎	
desc. node	3073 Aug 29	06:30	18°♎28'29	
	3073 Sep 08	11:37	0°♏	
	3073 Oct 06	08:34	0°♐	
evening max el	3073 Oct 14	10:17	8°♐04'32	46°32'14
	3073 Nov 08	22:10	0°♑	
greatest brilliancy	3073 Nov 23	17:49	7°♑58'25	-4.9m
retrograde	3073 Dec 03	08:14	9°♑42'31	
evening set	3073 Dec 17	15:23	5°♑40'23	
asc. node	3073 Dec 20	09:31	4°♑08'24	
inferior conj	3073 Dec 23	21:38	2°♑02'35	0°54'42
minimum elong	3073 Dec 23	19:32	2°♑05'46	0°54'00
min. Earth dist.	3073 Dec 23	22:33	2°♑01'11	0.26517 AU
	3073 Dec 27	07:22	30°℞♐	
morning rise	3073 Dec 29	23:24	28°♐30'05	
direct	3074 Jan 13	08:03	24°♐22'32	
greatest brilliancy	3074 Jan 23	13:23	26°♐21'37	-4.9m
	3074 Jan 31	03:57	0°♑	
morning max el	3074 Mar 04	20:04	27°♑19'03	46°52'38
	3074 Mar 07	11:36	0°♒	
	3074 Apr 04	04:27	0°♓	
desc. node	3074 Apr 10	23:31	7°♓42'54	
	3074 Apr 30	05:28	0°♈	
	3074 May 25	14:58	0°♉	
	3074 Jun 19	17:02	0°♊	
	3074 Jul 14	14:07	0°♋	
asc. node	3074 Aug 02	02:26	22°♋29'16	
	3074 Aug 08	06:12	0°♌	
morning set	3074 Sep 01	19:03	0°♍06'26	
	3074 Sep 01	16:58	0°♍	
	3074 Sep 25	22:57	0°♎	
max. Earth dist.	3074 Oct 05	11:50	11°♎50'55	1.72417 AU
superior conj	3074 Oct 08	12:51	15°♎38'01	1°20'35
minimum elong	3074 Oct 08	18:46	15°♎56'28	1°20'30
	3074 Oct 20	01:37	0°♏	
	3074 Nov 13	02:30	0°♐	
evening rise	3074 Nov 16	00:50	3°♐39'42	
desc. node	3074 Nov 21	16:20	10°♐42'58	
	3074 Dec 07	02:37	0°♑	
	3074 Dec 31	02:43	0°♒	
	3075 Jan 24	04:16	0°♓	
	3075 Feb 17	10:25	0°♈	
	3075 Mar 14	02:26	0°♉	
asc. node	3075 Mar 14	19:13	0°♉50'23	
	3075 Apr 08	12:51	0°♊	
	3075 May 05	11:28	0°♋	
evening max el	3075 May 21	08:20	16°♋11'52	45°37'54
	3075 Jun 05	15:37	0°♌	
greatest brilliancy	3075 Jun 28	05:19	14°♌12'11	-4.7m
desc. node	3075 Jul 04	08:52	15°♌55'28	
retrograde	3075 Jul 09	04:40	16°♌21'49	
evening set	3075 Jul 24	22:57	11°♌35'01	
inferior conj	3075 Jul 30	16:21	8°♌07'28	-5°41'09
minimum elong	3075 Jul 30	06:36	8°♌22'42	5°39'00
min. Earth dist.	3075 Jul 30	11:53	8°♌14'26	0.29055 AU
morning rise	3075 Aug 04	14:19	5°♌07'45	
	3075 Aug 18	09:35	30°℞♋	
direct	3075 Aug 21	07:58	29°♋49'49	
	3075 Aug 24	07:23	0°♌	
greatest brilliancy	3075 Aug 31	17:17	1°♌46'57	-4.7m
	3075 Oct 09	04:34	0°♍	
morning max el	3075 Oct 09	14:37	0°♍24'27	46°03'32
asc. node	3075 Oct 25	12:04	16°♍43'55	
	3075 Nov 06	14:01	0°♎	
	3075 Dec 02	11:12	0°♏	
	3075 Dec 27	07:18	0°♐	
	3076 Jan 20	15:48	0°♑	
	3076 Feb 13	19:11	0°♒	
desc. node	3076 Feb 14	01:43	0°♒20'20	
	3076 Mar 08	20:51	0°♓	
	3076 Apr 01	22:51	0°♈	
morning set	3076 Apr 13	17:42	14°♈38'57	
	3076 Apr 26	02:36	0°♉	
	3076 May 20	08:47	0°♊	
superior conj	3076 May 22	00:31	2°♊02'35	-0°35'15
minimum elong	3076 May 22	07:46	2°♊24'57	0°34'56
max. Earth dist.	3076 May 24	10:25	5°♊01'12	1.73104 AU
asc. node	3076 Jun 06	04:50	20°♊45'07	
	3076 Jun 13	17:14	0°♋	
evening rise	3076 Jun 28	04:46	17°♋47'41	
	3076 Jul 08	03:29	0°♌	
	3076 Aug 01	15:27	0°♍	
	3076 Aug 26	06:00	0°♎	
	3076 Sep 20	00:41	0°♏	
desc. node	3076 Sep 25	18:34	6°♏55'05	
	3076 Oct 15	01:28	0°♐	
	3076 Nov 09	11:57	0°♑	
	3076 Dec 05	18:20	0°♒	
evening max el	3076 Dec 26	08:22	22°♒00'58	47°15'30
	3077 Jan 03	10:27	0°♓	
asc. node	3077 Jan 16	21:29	11°♓53'47	
greatest brilliancy	3077 Feb 04	22:05	23°♓34'17	-4.9m
retrograde	3077 Feb 15	05:20	25°♓35'15	
evening set	3077 Mar 04	22:39	19°♓28'13	
min. Earth dist.	3077 Mar 07	07:43	18°♓00'08	0.27391 AU
inferior conj	3077 Mar 08	00:06	17°♓34'36	8°51'42
minimum elong	3077 Mar 07	21:15	17°♓39'02	8°51'35
morning rise	3077 Mar 10	20:03	15°♓49'50	

direct	3077 Mar 28 16:36	9°♓44'47	
greatest brilliancy	3077 Apr 06 17:11	11°♓16'57	-4.8m
	3077 May 05 09:41	0°♈	
desc. node	3077 May 08 11:11	2°♈43'48	
morning max el	3077 May 17 05:00	10°♈57'53	46°10'39
	3077 Jun 04 19:14	0°♉	
	3077 Jul 02 00:00	0°♊	
	3077 Jul 28 00:44	0°♋	
	3077 Aug 22 09:05	0°♌	
asc. node	3077 Aug 29 14:21	8°♌39'45	
	3077 Sep 16 05:00	0°♍	
	3077 Oct 10 15:11	0°♎	
	3077 Nov 03 18:31	0°♏	
morning set	3077 Nov 10 20:48	8°♏51'56	
	3077 Nov 27 17:47	0°♐	
desc. node	3077 Dec 19 04:02	26°♐54'38	
max. Earth dist.	3077 Dec 19 10:12	27°♐13'59	1.71206 AU
superior conj	3077 Dec 20 14:59	28°♐44'26	-0°03'32
minimum elong	3077 Dec 20 14:03	28°♐41'31	0°03'29
behind sun begin	3077 Dec 19 12:33	27°♐21'22	
behind sun end	3077 Dec 21 15:33	0°♑01'40	
	3077 Dec 21 15:01	0°♑	
	3078 Jan 14 11:33	0°♒	
evening rise	3078 Jan 30 19:48	20°♒32'30	
	3078 Feb 07 08:34	0°♓	
	3078 Mar 03 07:48	0°♈	
	3078 Mar 27 11:37	0°♉	
asc. node	3078 Apr 11 07:12	18°♉13'18	
	3078 Apr 20 22:53	0°♊	
	3078 May 15 21:02	0°♋	
	3078 Jun 10 11:40	0°♌	
	3078 Jul 07 07:48	0°♍	
evening max el	3078 Jul 31 05:45	24°♍28'34	45°33'16
desc. node	3078 Jul 31 20:44	25°♍04'14	
	3078 Aug 06 03:59	0°♎	
greatest brilliancy	3078 Sep 08 14:33	22°♎34'46	-4.8m
retrograde	3078 Sep 17 21:47	24°♎08'56	
evening set	3078 Oct 05 17:04	18°♎16'21	
inferior conj	3078 Oct 09 02:13	16°♎12'43	-8°16'54
minimum elong	3078 Oct 09 08:31	16°♎02'58	8°16'18
min. Earth dist.	3078 Oct 09 23:19	15°♎40'03	0.28176 AU
morning rise	3078 Oct 12 23:38	13°♎50'00	
direct	3078 Oct 30 08:07	8°♎05'16	
greatest brilliancy	3078 Nov 10 13:00	10°♎24'02	-4.8m
asc. node	3078 Nov 21 23:39	16°♎38'25	
	3078 Dec 08 12:22	0°♏	
morning max el	3078 Dec 19 19:47	10°♏57'05	46°47'03
	3079 Jan 06 16:30	0°♐	
	3079 Feb 01 19:27	0°♑	
	3079 Feb 26 21:56	0°♒	
desc. node	3079 Mar 13 13:39	17°♒46'19	
	3079 Mar 23 14:20	0°♓	
	3079 Apr 17 02:41	0°♈	
	3079 May 11 13:57	0°♉	
	3079 Jun 05 01:19	0°♊	
morning set	3079 Jun 23 15:19	22°♊46'41	
	3079 Jun 29 12:39	0°♋	
asc. node	3079 Jul 04 16:39	6°♋20'13	
	3079 Jul 23 23:02	0°♌	
max. Earth dist.	3079 Jul 28 14:35	5°♌42'58	1.73496 AU
superior conj	3079 Jul 30 06:46	7°♌46'36	0°55'58
minimum elong	3079 Jul 29 22:00	7°♌19'38	0°55'38
	3079 Aug 17 07:48	0°♍	
evening rise	3079 Sep 04 04:42	22°♍03'05	
	3079 Sep 10 15:13	0°♎	
	3079 Oct 04 22:14	0°♏	
desc. node	3079 Oct 24 06:26	23°♏51'57	
	3079 Oct 29 05:52	0°♐	
	3079 Nov 22 14:51	0°♑	
	3079 Dec 17 02:37	0°♒	
	3080 Jan 10 21:11	0°♓	
	3080 Feb 05 08:40	0°♈	
asc. node	3080 Feb 14 09:19	10°♈15'29	
	3080 Mar 03 15:10	0°♉	
evening max el	3080 Mar 08 01:59	4°♉32'22	46°39'02
	3080 Apr 07 03:10	0°♊	
greatest brilliancy	3080 Apr 16 14:07	4°♊47'54	-4.8m
retrograde	3080 Apr 27 06:06	6°♊55'18	
evening set	3080 May 13 02:23	2°♊01'30	
	3080 May 16 11:37	30°℞♉	
inferior conj	3080 May 18 13:20	28°♉42'13	4°02'07
minimum elong	3080 May 18 21:23	28°♉29'34	3°59'57
min. Earth dist.	3080 May 18 12:31	28°♉43'30	0.28472 AU
morning rise	3080 May 24 16:39	25°♉00'06	
desc. node	3080 Jun 04 22:54	20°♉50'44	
direct	3080 Jun 08 19:32	20°♉32'59	
greatest brilliancy	3080 Jun 18 20:07	22°♉21'47	-4.7m
	3080 Jul 03 07:11	0°♊	
morning max el	3080 Jul 27 13:26	20°♊16'49	45°43'09
	3080 Aug 06 10:22	0°♋	
	3080 Sep 03 10:25	0°♌	
asc. node	3080 Sep 26 02:17	25°♌57'48	
	3080 Sep 29 12:51	0°♍	
	3080 Oct 24 14:49	0°♎	
	3080 Nov 18 02:01	0°♏	
	3080 Dec 12 04:50	0°♐	
	3081 Jan 05 03:31	0°♑	
desc. node	3081 Jan 15 15:55	13°♑12'29	
morning set	3081 Jan 25 05:06	25°♑12'28	
	3081 Jan 29 00:36	0°♒	
	3081 Feb 21 21:38	0°♓	
superior conj	3081 Mar 07 15:34	17°♓14'43	-1°25'31
minimum elong	3081 Mar 07 11:56	17°♓03'22	1°25'29
max. Earth dist.	3081 Mar 11 01:35	21°♓31'35	1.71569 AU
	3081 Mar 17 20:06	0°♈	
	3081 Apr 10 21:29	0°♉	
evening rise	3081 Apr 16 17:38	7°♉14'57	
	3081 May 05 03:07	0°♊	
asc. node	3081 May 08 19:01	4°♊30'47	
	3081 May 29 13:48	0°♋	
	3081 Jun 23 06:22	0°♌	
	3081 Jul 18 06:41	0°♍	
	3081 Aug 12 18:51	0°♎	
desc. node	3081 Aug 28 08:38	17°♎53'11	
	3081 Sep 08 03:15	0°♏	
	3081 Oct 06 05:44	0°♐	
evening max el	3081 Oct 12 00:27	5°♐44'16	46°29'51
	3081 Nov 10 03:18	0°♑	
greatest brilliancy	3081 Nov 21 06:02	5°♑30'02	-4.9m
retrograde	3081 Nov 30 20:52	7°♑14'02	
evening set	3081 Dec 15 04:05	3°♑11'17	
asc. node	3081 Dec 19 11:37	0°♑43'47	
	3081 Dec 20 16:39	30°℞♐	
inferior conj	3081 Dec 21 09:50	29°♐33'56	0°30'02
minimum elong	3081 Dec 21 08:40	29°♐35'42	0°29'40
min. Earth dist.	3081 Dec 21 11:54	29°♐30'49	0.26537 AU
morning rise	3081 Dec 27 13:03	25°♐59'49	
direct	3082 Jan 10 21:19	21°♐53'34	
greatest brilliancy	3082 Jan 21 03:03	23°♐53'34	-4.9m
	3082 Feb 01 16:15	0°♑	
morning max el	3082 Mar 02 10:26	24°♑55'53	46°53'27

	3082 Mar 07 09:32	0°♒	
	3082 Apr 03 20:39	0°♓	
desc. node	3082 Apr 10 01:32	7°♓04'21	
	3082 Apr 29 19:21	0°♈	
	3082 May 25 03:36	0°♉	
	3082 Jun 19 04:55	0°♊	
	3082 Jul 14 01:30	0°♋	
asc. node	3082 Aug 01 04:34	22°♋01'50	
	3082 Aug 07 17:17	0°♌	
morning set	3082 Aug 30 12:41	27°♌59'18	
	3082 Sep 01 03:52	0°♍	
	3082 Sep 25 09:48	0°♎	
max. Earth dist.	3082 Oct 03 03:51	9°♎37'40	1.72462 AU
superior conj	3082 Oct 06 05:21	13°♎26'10	1°21'36
minimum elong	3082 Oct 06 10:37	13°♎42'35	1°21'32
	3082 Oct 19 12:33	0°♏	
	3082 Nov 12 13:36	0°♐	
evening rise	3082 Nov 13 14:14	1°♐16'55	
desc. node	3082 Nov 20 18:18	10°♐14'18	
	3082 Dec 06 13:55	0°♑	
	3082 Dec 30 14:14	0°♒	
	3083 Jan 23 16:05	0°♓	
	3083 Feb 16 22:40	0°♈	
asc. node	3083 Mar 13 21:15	0°♉17'34	
	3083 Mar 13 15:24	0°♉	
	3083 Apr 08 03:15	0°♊	
	3083 May 05 05:24	0°♋	
evening max el	3083 May 19 00:52	14°♋01'46	45°39'16
	3083 Jun 06 00:36	0°♌	
greatest brilliancy	3083 Jun 25 21:20	12°♌02'50	-4.7m
desc. node	3083 Jul 03 10:58	13°♌59'12	
retrograde	3083 Jul 06 20:57	14°♌12'29	
evening set	3083 Jul 22 13:06	9°♌29'11	
inferior conj	3083 Jul 28 08:42	5°♌58'08	-5°26'05
minimum elong	3083 Jul 27 23:07	6°♌13'08	5°23'54
min. Earth dist.	3083 Jul 28 03:48	6°♌05'49	0.29045 AU
morning rise	3083 Aug 02 09:14	2°♌54'30	
	3083 Aug 08 03:36	30°℞♋	
direct	3083 Aug 19 00:40	27°♋40'53	
greatest brilliancy	3083 Aug 29 08:28	29°♋36'33	-4.7m
	3083 Aug 30 09:39	0°♌	
morning max el	3083 Oct 07 05:36	28°♌10'27	46°02'12
	3083 Oct 09 02:17	0°♍	
asc. node	3083 Oct 24 13:57	16°♍02'05	
	3083 Nov 06 05:34	0°♎	
	3083 Dec 02 00:39	0°♏	
	3083 Dec 26 19:46	0°♐	
	3084 Jan 20 03:44	0°♑	
desc. node	3084 Feb 13 03:49	29°♑50'45	
	3084 Feb 13 06:47	0°♒	
	3084 Mar 08 08:13	0°♓	
	3084 Apr 01 10:02	0°♈	
morning set	3084 Apr 11 07:17	12°♈17'41	
	3084 Apr 25 13:37	0°♉	
superior conj	3084 May 19 16:14	29°♉49'24	-0°38'22
minimum elong	3084 May 20 00:01	0°♊13'24	0°38'00
	3084 May 19 19:40	0°♊	
max. Earth dist.	3084 May 22 07:15	3°♊03'50	1.73061 AU
asc. node	3084 Jun 05 06:51	20°♊17'58	
	3084 Jun 13 04:05	0°♋	
evening rise	3084 Jun 25 22:41	15°♋41'55	
	3084 Jul 07 14:24	0°♌	
	3084 Aug 01 02:35	0°♍	
	3084 Aug 25 17:30	0°♎	
	3084 Sep 19 12:46	0°♏	
desc. node	3084 Sep 24 20:33	6°♏24'13	
	3084 Oct 14 14:27	0°♐	
	3084 Nov 09 02:27	0°♑	
	3084 Dec 05 11:55	0°♒	
evening max el	3084 Dec 23 22:13	19°♒36'43	47°15'05
	3085 Jan 03 13:32	0°♓	
asc. node	3085 Jan 15 23:33	10°♓40'23	
greatest brilliancy	3085 Feb 02 12:47	21°♓10'38	-4.9m
retrograde	3085 Feb 12 18:43	23°♓10'31	
evening set	3085 Mar 02 09:52	17°♓08'08	
min. Earth dist.	3085 Mar 04 21:06	15°♓36'49	0.27344 AU
inferior conj	3085 Mar 05 13:41	15°♓10'55	8°48'29
minimum elong	3085 Mar 05 09:58	15°♓16'43	8°48'17
morning rise	3085 Mar 08 10:16	13°♓25'06	
direct	3085 Mar 26 05:27	7°♓21'55	
greatest brilliancy	3085 Apr 04 06:30	8°♓54'08	-4.8m
	3085 May 05 14:36	0°♈	
desc. node	3085 May 07 13:08	1°♈46'03	
morning max el	3085 May 14 17:40	8°♈35'22	46°12'10
	3085 Jun 04 12:52	0°♉	
	3085 Jul 01 14:13	0°♊	
	3085 Jul 27 13:20	0°♋	
	3085 Aug 21 20:49	0°♌	
asc. node	3085 Aug 28 16:21	8°♌10'57	
	3085 Sep 15 16:17	0°♍	
	3085 Oct 10 02:13	0°♎	
	3085 Nov 03 05:26	0°♏	
morning set	3085 Nov 08 11:03	6°♏32'17	
	3085 Nov 27 04:40	0°♐	
max. Earth dist.	3085 Dec 16 16:41	24°♐29'20	1.71229 AU
superior conj	3085 Dec 18 02:14	26°♐14'46	0°00'24
minimum elong	3085 Dec 18 02:19	26°♐15'01	0°00'24
behind sun begin	3085 Dec 17 00:31	24°♐53'57	
behind sun end	3085 Dec 19 04:07	27°♐36'04	
desc. node	3085 Dec 18 06:14	26°♐27'19	
	3085 Dec 21 01:55	0°♑	
	3086 Jan 13 22:30	0°♒	
evening rise	3086 Jan 28 06:22	18°♒00'27	
	3086 Feb 06 19:35	0°♓	
	3086 Mar 02 18:54	0°♈	
	3086 Mar 26 22:55	0°♉	
asc. node	3086 Apr 10 09:08	17°♉44'00	
	3086 Apr 20 10:32	0°♊	
	3086 May 15 09:21	0°♋	
	3086 Jun 10 01:19	0°♌	
	3086 Jul 07 00:26	0°♍	
evening max el	3086 Jul 28 19:11	22°♍11'39	45°32'18
desc. node	3086 Jul 30 22:50	24°♍13'57	
	3086 Aug 06 06:29	0°♎	
greatest brilliancy	3086 Sep 06 03:31	20°♎18'28	-4.7m
retrograde	3086 Sep 15 11:55	21°♎53'55	
evening set	3086 Oct 03 09:15	15°♎57'50	
inferior conj	3086 Oct 06 16:53	13°♎56'34	-8°22'50
minimum elong	3086 Oct 06 22:29	13°♎47'54	8°22'22
min. Earth dist.	3086 Oct 07 13:30	13°♎24'41	0.28240 AU
morning rise	3086 Oct 10 11:24	11°♎38'17	
direct	3086 Oct 27 23:06	5°♎48'01	
greatest brilliancy	3086 Nov 08 04:43	8°♎07'29	-4.8m
asc. node	3086 Nov 21 01:46	15°♎20'37	
	3086 Dec 08 15:15	0°♏	
morning max el	3086 Dec 17 10:30	8°♏36'51	46°46'04
	3087 Jan 06 09:43	0°♐	
	3087 Feb 01 09:42	0°♑	
	3087 Feb 26 10:46	0°♒	
desc. node	3087 Mar 12 15:38	17°♒14'57	
	3087 Mar 23 02:21	0°♓	

	3087 Apr 16 14:09	0°♈	
	3087 May 11 01:02	0°♉	
	3087 Jun 04 12:09	0°♊	
morning set	3087 Jun 21 08:46	20°♊40'09	
	3087 Jun 28 23:20	0°♋	
asc. node	3087 Jul 03 18:47	5°♋54'07	
	3087 Jul 23 09:38	0°♌	
max. Earth dist.	3087 Jul 26 11:48	3°♌48'04	1.73512 AU
superior conj	3087 Jul 28 00:54	5°♌42'10	0°53'32
minimum elong	3087 Jul 27 16:15	5°♌15'32	0°53'12
	3087 Aug 16 18:25	0°♍	
evening rise	3087 Sep 01 22:28	19°♍56'50	
	3087 Sep 10 01:57	0°♎	
	3087 Oct 04 09:13	0°♏	
desc. node	3087 Oct 23 08:25	23°♏23'18	
	3087 Oct 28 17:12	0°♐	
	3087 Nov 22 02:41	0°♑	
	3087 Dec 16 15:03	0°♒	
	3088 Jan 10 10:35	0°♓	
	3088 Feb 04 23:57	0°♈	
asc. node	3088 Feb 13 11:22	9°♈35'21	
	3088 Mar 03 11:28	0°♉	
evening max el	3088 Mar 05 16:51	2°♉15'13	46°41'22
	3088 Apr 08 14:58	0°♊	
greatest brilliancy	3088 Apr 14 06:01	2°♊35'10	-4.8m
retrograde	3088 Apr 24 22:34	4°♊43'17	
	3088 May 10 10:31	30°℞♉	
evening set	3088 May 10 20:39	29°♉45'38	
inferior conj	3088 May 16 05:06	26°♉30'03	4°20'26
minimum elong	3088 May 16 13:36	26°♉16'43	4°18'11
min. Earth dist.	3088 May 16 04:07	26°♉31'36	0.28449 AU
morning rise	3088 May 22 06:52	22°♉50'29	
desc. node	3088 Jun 04 01:02	18°♉28'02	
direct	3088 Jun 06 11:01	18°♉21'05	
greatest brilliancy	3088 Jun 16 11:02	20°♉09'56	-4.7m
	3088 Jul 04 01:01	0°♊	
morning max el	3088 Jul 25 06:02	18°♊08'51	45°43'17
	3088 Aug 06 05:13	0°♋	
	3088 Sep 03 00:50	0°♌	
asc. node	3088 Sep 25 04:13	25°♌25'59	
	3088 Sep 29 01:30	0°♍	
	3088 Oct 24 02:35	0°♎	
	3088 Nov 17 13:20	0°♏	
	3088 Dec 11 15:57	0°♐	
	3089 Jan 04 14:31	0°♑	
desc. node	3089 Jan 14 17:58	12°♑44'32	
morning set	3089 Jan 22 14:50	22°♑37'55	
	3089 Jan 28 11:30	0°♒	
	3089 Feb 21 08:27	0°♓	
superior conj	3089 Mar 05 02:43	14°♓45'27	-1°24'50
minimum elong	3089 Mar 04 22:04	14°♓30'53	1°24'48
max. Earth dist.	3089 Mar 08 11:14	18°♓57'48	1.71523 AU
	3089 Mar 17 06:49	0°♈	
	3089 Apr 10 08:11	0°♉	
evening rise	3089 Apr 14 06:58	4°♉54'19	
	3089 May 04 13:51	0°♊	
asc. node	3089 May 07 21:06	4°♊04'08	
	3089 May 29 00:42	0°♋	
	3089 Jun 22 17:38	0°♌	
	3089 Jul 17 18:38	0°♍	
	3089 Aug 12 08:02	0°♎	
desc. node	3089 Aug 27 10:35	17°♎17'54	
	3089 Sep 07 18:50	0°♏	
	3089 Oct 06 03:20	0°♐	
evening max el	3089 Oct 09 14:51	3°♐25'32	46°27'32
	3089 Nov 11 20:24	0°♑	
greatest brilliancy	3089 Nov 18 18:33	3°♑03'15	-4.9m
retrograde	3089 Nov 28 09:18	4°♑46'28	
evening set	3089 Dec 12 17:02	0°♑43'13	
	3089 Dec 14 00:43	30°℞♐	
inferior conj	3089 Dec 18 22:01	27°♐06'29	0°05'24
minimum elong	3089 Dec 18 21:48	27°♐06'48	0°05'21
transit middle	3089 Dec 18 21:48	27°♐06'48	0°05'21
transit begin	3089 Dec 18 17:56	27°♐12'40	
transit end	3089 Dec 19 01:40	27°♐00'56	
asc. node	3089 Dec 18 13:42	27°♐19'06	
min. Earth dist.	3089 Dec 19 01:17	27°♐01'31	0.26556 AU
morning rise	3089 Dec 25 02:24	23°♐30'47	
direct	3090 Jan 08 10:29	19°♐25'55	
greatest brilliancy	3090 Jan 18 16:37	21°♐26'25	-4.9m
	3090 Feb 02 17:27	0°♑	
morning max el	3090 Feb 27 23:58	22°♑31'41	46°54'13
	3090 Mar 07 06:15	0°♒	
	3090 Apr 03 12:11	0°♓	
desc. node	3090 Apr 09 03:29	6°♓27'09	
	3090 Apr 29 08:41	0°♈	
	3090 May 24 15:45	0°♉	
	3090 Jun 18 16:20	0°♊	
	3090 Jul 13 12:28	0°♋	
asc. node	3090 Jul 31 06:32	21°♋35'07	
	3090 Aug 07 03:59	0°♌	
morning set	3090 Aug 28 06:09	25°♌52'43	
	3090 Aug 31 14:27	0°♍	
	3090 Sep 24 20:24	0°♎	
max. Earth dist.	3090 Sep 30 17:42	7°♎18'35	1.72512 AU
superior conj	3090 Oct 03 21:43	11°♎14'47	1°22'29
minimum elong	3090 Oct 04 02:18	11°♎29'02	1°22'26
	3090 Oct 18 23:15	0°♏	
evening rise	3090 Nov 11 03:22	28°♏54'14	
	3090 Nov 12 00:26	0°♐	
desc. node	3090 Nov 19 20:25	9°♐46'57	
	3090 Dec 06 00:55	0°♑	
	3090 Dec 30 01:27	0°♒	
	3091 Jan 23 03:36	0°♓	
	3091 Feb 16 10:37	0°♈	
asc. node	3091 Mar 12 23:12	29°♈45'18	
	3091 Mar 13 04:06	0°♉	
	3091 Apr 07 17:27	0°♊	
	3091 May 04 23:19	0°♋	
evening max el	3091 May 16 16:38	11°♋50'51	45°40'44
	3091 Jun 06 12:02	0°♌	
greatest brilliancy	3091 Jun 23 13:57	9°♌55'28	-4.7m
desc. node	3091 Jul 02 13:00	12°♌00'12	
retrograde	3091 Jul 04 12:59	12°♌04'47	
evening set	3091 Jul 20 03:32	7°♌24'38	
inferior conj	3091 Jul 26 01:13	3°♌50'28	-5°10'37
minimum elong	3091 Jul 25 15:51	4°♌05'11	5°08'25
min. Earth dist.	3091 Jul 25 20:10	3°♌58'24	0.29037 AU
morning rise	3091 Jul 31 04:13	0°♌42'56	
	3091 Aug 01 10:48	30°℞♋	
direct	3091 Aug 16 17:03	25°♋33'27	
greatest brilliancy	3091 Aug 27 00:19	27°♋28'10	-4.7m
	3091 Sep 01 19:35	0°♌	
morning max el	3091 Oct 04 19:53	25°♌55'31	46°00'42
	3091 Oct 08 22:56	0°♍	
asc. node	3091 Oct 23 16:05	15°♍21'58	
	3091 Nov 05 20:44	0°♎	
	3091 Dec 01 13:52	0°♏	
	3091 Dec 26 08:02	0°♐	
	3092 Jan 19 15:27	0°♑	
desc. node	3092 Feb 12 05:48	29°♑21'31	

	3092 Feb 12 18:09	0°♒	
	3092 Mar 07 19:19	0°♓	
	3092 Mar 31 20:57	0°♈	
morning set	3092 Apr 08 20:45	9°♈56'37	
	3092 Apr 25 00:24	0°♉	
superior conj	3092 May 17 08:04	27°♉37'10	-0°41'23
minimum elong	3092 May 17 16:20	28°♉02'42	0°41'02
	3092 May 19 06:20	0°♊	
max. Earth dist.	3092 May 20 02:29	1°♊02'12	1.73014 AU
asc. node	3092 Jun 04 09:00	19°♊51'52	
	3092 Jun 12 14:42	0°♋	
evening rise	3092 Jun 23 16:44	13°♋37'14	
	3092 Jul 07 01:05	0°♌	
	3092 Jul 31 13:29	0°♍	
	3092 Aug 25 04:49	0°♎	
	3092 Sep 19 00:44	0°♏	
desc. node	3092 Sep 23 22:33	5°♏53'46	
	3092 Oct 14 03:26	0°♐	
	3092 Nov 08 17:06	0°♑	
	3092 Dec 05 05:57	0°♒	
evening max el	3092 Dec 21 11:09	17°♒09'56	47°14'42
	3093 Jan 03 18:26	0°♓	
asc. node	3093 Jan 15 01:33	9°♓24'30	
greatest brilliancy	3093 Jan 31 03:26	18°♓46'32	-4.9m
retrograde	3093 Feb 10 07:56	20°♓45'35	
evening set	3093 Feb 27 20:33	14°♓48'15	
min. Earth dist.	3093 Mar 02 10:25	13°♓13'05	0.27293 AU
inferior conj	3093 Mar 03 03:09	12°♓47'00	8°44'19
minimum elong	3093 Mar 02 22:34	12°♓54'09	8°44'01
morning rise	3093 Mar 06 00:45	10°♓59'41	
direct	3093 Mar 23 17:48	4°♓58'38	
greatest brilliancy	3093 Apr 01 19:56	6°♓31'29	-4.8m
	3093 May 05 17:38	0°♈	
desc. node	3093 May 06 15:21	0°♈50'30	
morning max el	3093 May 12 06:31	6°♈13'25	46°13'48
	3093 Jun 04 05:58	0°♉	
	3093 Jul 01 04:09	0°♊	
	3093 Jul 27 01:45	0°♋	
	3093 Aug 21 08:24	0°♌	
asc. node	3093 Aug 27 18:22	7°♌42'37	
	3093 Sep 15 03:25	0°♍	
	3093 Oct 09 13:09	0°♎	
	3093 Nov 02 16:19	0°♏	
morning set	3093 Nov 06 01:27	4°♏13'20	
	3093 Nov 26 15:34	0°♐	
max. Earth dist.	3093 Dec 14 01:08	21°♐50'39	1.71260 AU
superior conj	3093 Dec 15 13:17	23°♐44'12	0°04'20
minimum elong	3093 Dec 15 14:23	23°♐47'41	0°04'16
behind sun begin	3093 Dec 14 13:16	22°♐28'46	
behind sun end	3093 Dec 16 15:30	25°♐06'36	
desc. node	3093 Dec 17 08:14	25°♐59'10	
	3093 Dec 20 12:54	0°♑	
	3094 Jan 13 09:33	0°♒	
evening rise	3094 Jan 25 16:29	15°♒26'45	
	3094 Feb 06 06:42	0°♓	
	3094 Mar 02 06:06	0°♈	
	3094 Mar 26 10:17	0°♉	
asc. node	3094 Apr 09 11:15	17°♉15'07	
	3094 Apr 19 22:15	0°♊	
	3094 May 14 21:46	0°♋	
	3094 Jun 09 15:08	0°♌	
	3094 Jul 06 17:24	0°♍	
evening max el	3094 Jul 26 09:39	19°♍57'32	45°31'32
desc. node	3094 Jul 30 00:50	23°♍22'41	
	3094 Aug 06 10:30	0°♎	
greatest brilliancy	3094 Sep 03 16:10	18°♎02'44	-4.7m
retrograde	3094 Sep 13 02:55	19°♎39'58	
evening set	3094 Oct 01 01:23	13°♎40'52	
inferior conj	3094 Oct 04 07:48	11°♎41'25	-8°27'44
minimum elong	3094 Oct 04 12:42	11°♎33'51	8°27'24
min. Earth dist.	3094 Oct 05 03:29	11°♎11'01	0.28304 AU
morning rise	3094 Oct 07 23:44	9°♎27'09	
direct	3094 Oct 25 14:45	3°♎31'56	
greatest brilliancy	3094 Nov 05 19:56	5°♎51'13	-4.8m
asc. node	3094 Nov 20 03:51	14°♎05'37	
	3094 Dec 08 16:39	0°♏	
morning max el	3094 Dec 15 02:10	6°♏19'09	46°44'44
	3095 Jan 06 02:42	0°♐	
	3095 Feb 01 00:01	0°♑	
	3095 Feb 25 23:47	0°♒	
desc. node	3095 Mar 11 17:40	16°♒42'59	
	3095 Mar 22 14:35	0°♓	
	3095 Apr 16 01:51	0°♈	
	3095 May 10 12:19	0°♉	
	3095 Jun 03 23:09	0°♊	
morning set	3095 Jun 19 02:11	18°♊32'59	
	3095 Jun 28 10:10	0°♋	
asc. node	3095 Jul 02 20:42	5°♋26'53	
	3095 Jul 22 20:24	0°♌	
max. Earth dist.	3095 Jul 24 10:24	1°♌56'49	1.73523 AU
superior conj	3095 Jul 25 19:09	3°♌37'34	0°51'02
minimum elong	3095 Jul 25 10:39	3°♌11'25	0°50'42
	3095 Aug 16 05:13	0°♍	
evening rise	3095 Aug 30 16:37	17°♍51'16	
	3095 Sep 09 12:52	0°♎	
	3095 Oct 03 20:22	0°♏	
desc. node	3095 Oct 22 10:35	22°♏54'47	
	3095 Oct 28 04:43	0°♐	
	3095 Nov 21 14:41	0°♑	
	3095 Dec 16 03:45	0°♒	
	3096 Jan 10 00:22	0°♓	
	3096 Feb 04 15:50	0°♈	
asc. node	3096 Feb 12 13:19	8°♈53'20	
	3096 Mar 03 09:02	0°♉	
evening max el	3096 Mar 03 08:35	29°♈58'53	46°43'34
	3096 Apr 11 00:49	0°♊	
greatest brilliancy	3096 Apr 11 21:52	0°♊20'42	-4.8m
retrograde	3096 Apr 22 15:06	2°♊29'12	
	3096 May 03 16:19	30°℞♉	
evening set	3096 May 08 14:53	27°♉27'54	
inferior conj	3096 May 13 20:40	24°♉15'58	4°38'29
minimum elong	3096 May 14 05:35	24°♉02'01	4°36'12
min. Earth dist.	3096 May 13 19:15	24°♉18'12	0.28421 AU
morning rise	3096 May 19 20:40	20°♉39'15	
desc. node	3096 Jun 03 03:04	16°♉08'45	
direct	3096 Jun 04 02:39	16°♉07'36	
greatest brilliancy	3096 Jun 14 01:04	17°♉55'39	-4.7m
	3096 Jul 04 14:50	0°♊	
morning max el	3096 Jul 22 22:27	15°♊59'31	45°43'31
	3096 Aug 05 23:54	0°♋	
	3096 Sep 02 15:21	0°♌	
asc. node	3096 Sep 24 06:17	24°♌53'57	
	3096 Sep 28 14:18	0°♍	
	3096 Oct 23 14:33	0°♎	
	3096 Nov 17 00:53	0°♏	
	3096 Dec 11 03:17	0°♐	
	3097 Jan 04 01:45	0°♑	
desc. node	3097 Jan 13 19:56	12°♑15'36	
morning set	3097 Jan 20 01:01	20°♑03'59	
	3097 Jan 27 22:40	0°♒	
	3097 Feb 20 19:34	0°♓	

superior conj	3097 Mar 02 13:42	12°♓14'34	-1°23'59
minimum elong	3097 Mar 02 08:05	11°♓56'56	1°23'55
max. Earth dist.	3097 Mar 05 22:03	16°♓26'27	1.71485 AU
	3097 Mar 16 17:55	0°♈	
	3097 Apr 09 19:17	0°♉	
evening rise	3097 Apr 11 19:48	2°♉30'41	
	3097 May 04 01:01	0°♊	
asc. node	3097 May 06 23:10	3°♊36'02	
	3097 May 28 12:02	0°♋	
	3097 Jun 22 05:19	0°♌	
	3097 Jul 17 07:01	0°♍	
	3097 Aug 11 21:42	0°♎	
desc. node	3097 Aug 26 12:38	16°♎41'38	
	3097 Sep 07 11:04	0°♏	
	3097 Oct 06 02:11	0°♐	
evening max el	3097 Oct 07 05:07	1°♐05'43	46°25'11
	3097 Nov 14 15:11	0°♑	
greatest brilliancy	3097 Nov 16 07:54	0°♑37'15	-4.9m
retrograde	3097 Nov 25 21:27	2°♑18'56	
	3097 Dec 06 14:59	30°℞♐	
evening set	3097 Dec 10 06:28	28°♐15'01	
inferior conj	3097 Dec 16 10:29	24°♐39'17	-0°18'56
minimum elong	3097 Dec 16 11:13	24°♐38'10	0°18'42
min. Earth dist.	3097 Dec 16 15:13	24°♐32'05	0.26577 AU
asc. node	3097 Dec 17 15:38	23°♐54'59	
morning rise	3097 Dec 22 15:45	21°♐02'03	
direct	3098 Jan 05 23:28	16°♐58'27	
greatest brilliancy	3098 Jan 16 06:42	18°♐59'39	-4.9m
	3098 Feb 03 12:11	0°♑	
morning max el	3098 Feb 25 12:39	20°♑04'36	46°54'50
	3098 Mar 07 02:33	0°♒	
	3098 Apr 03 03:48	0°♓	
desc. node	3098 Apr 08 05:40	5°♓49'59	
	3098 Apr 28 22:18	0°♈	
	3098 May 24 04:16	0°♉	
	3098 Jun 18 04:10	0°♊	
	3098 Jul 12 23:50	0°♋	
asc. node	3098 Jul 30 08:33	21°♋07'19	
	3098 Aug 06 15:03	0°♌	
morning set	3098 Aug 25 23:32	23°♌44'47	
	3098 Aug 31 01:23	0°♍	
	3098 Sep 24 07:20	0°♎	
max. Earth dist.	3098 Sep 28 08:19	5°♎01'00	1.72561 AU
superior conj	3098 Oct 01 14:16	9°♎03'04	1°23'14
minimum elong	3098 Oct 01 18:09	9°♎15'09	1°23'12
	3098 Oct 18 10:17	0°♏	
evening rise	3098 Nov 08 16:54	26°♏31'51	
	3098 Nov 11 11:37	0°♐	
desc. node	3098 Nov 18 22:26	9°♐18'09	
	3098 Dec 05 12:16	0°♑	
	3098 Dec 29 13:00	0°♒	
	3099 Jan 22 15:26	0°♓	
	3099 Feb 15 22:54	0°♈	
asc. node	3099 Mar 12 01:20	29°♈12'39	
	3099 Mar 12 17:10	0°♉	
	3099 Apr 07 08:09	0°♊	
	3099 May 04 18:09	0°♋	
evening max el	3099 May 14 07:37	9°♋36'38	45°42'06
	3099 Jun 07 04:21	0°♌	
greatest brilliancy	3099 Jun 21 06:33	7°♌46'18	-4.7m
desc. node	3099 Jul 01 14:59	9°♌55'07	
retrograde	3099 Jul 02 04:51	9°♌55'30	
evening set	3099 Jul 17 17:57	5°♌18'02	
inferior conj	3099 Jul 23 17:39	1°♌41'12	-4°54'39
minimum elong	3099 Jul 23 08:31	1°♌55'32	4°52'27
min. Earth dist.	3099 Jul 23 12:43	1°♌48'56	0.29028 AU
	3099 Jul 26 10:36	30°℞♋	
morning rise	3099 Jul 28 23:05	28°♋29'55	
direct	3099 Aug 14 08:54	23°♋24'16	
greatest brilliancy	3099 Aug 24 16:39	25°♋18'53	-4.7m
	3099 Sep 03 09:16	0°♌	
morning max el	3099 Oct 02 10:03	23°♌39'16	45°59'25
	3099 Oct 08 19:20	0°♍	
asc. node	3099 Oct 22 18:11	14°♍41'21	
	3099 Nov 05 12:00	0°♎	
	3099 Dec 01 03:15	0°♏	
	3099 Dec 25 20:32	0°♐	
	3100 Jan 19 03:25	0°♑	
desc. node	3100 Feb 11 07:50	28°♑51'39	
	3100 Feb 12 05:46	0°♒	
	3100 Mar 08 06:42	0°♓	
	3100 Apr 01 08:07	0°♈	
morning set	3100 Apr 07 10:16	7°♈34'51	
	3100 Apr 25 11:24	0°♉	
superior conj	3100 May 15 23:55	25°♉24'13	-0°44'21
minimum elong	3100 May 16 08:38	25°♉51'08	0°43'59
max. Earth dist.	3100 May 18 20:15	28°♉55'10	1.72971 AU
	3100 May 19 17:15	0°♊	
asc. node	3100 Jun 04 10:56	19°♊24'12	
	3100 Jun 13 01:37	0°♋	
evening rise	3100 Jun 22 10:38	11°♋31'14	
	3100 Jul 07 12:07	0°♌	
	3100 Aug 01 00:45	0°♍	
	3100 Aug 25 16:29	0°♎	
	3100 Sep 19 13:02	0°♏	
desc. node	3100 Sep 24 00:41	5°♏22'47	
	3100 Oct 14 16:45	0°♐	
	3100 Nov 09 08:11	0°♑	
	3100 Dec 06 00:39	0°♒	
evening max el	3100 Dec 20 00:01	14°♒42'31	47°14'17
	3101 Jan 05 01:43	0°♓	
asc. node	3101 Jan 15 03:36	8°♓05'46	
greatest brilliancy	3101 Jan 29 17:46	16°♓21'19	-4.9m
retrograde	3101 Feb 08 21:32	18°♓20'14	
evening set	3101 Feb 26 06:52	12°♓28'05	
min. Earth dist.	3101 Feb 28 23:39	10°♓48'52	0.27244 AU
inferior conj	3101 Mar 01 16:38	10°♓22'27	8°39'11
minimum elong	3101 Mar 01 11:12	10°♓30'54	8°38'45
morning rise	3101 Mar 04 15:43	8°♓33'08	
direct	3101 Mar 22 06:14	2°♓34'37	
greatest brilliancy	3101 Mar 31 09:15	4°♓08'16	-4.8m
desc. node	3101 May 06 17:19	29°♓55'15	
	3101 May 06 19:19	0°♈	
morning max el	3101 May 10 20:09	3°♈52'58	46°15'31
	3101 Jun 04 22:52	0°♉	
	3101 Jul 01 18:05	0°♊	
	3101 Jul 27 14:17	0°♋	
	3101 Aug 21 20:11	0°♌	
asc. node	3101 Aug 27 20:28	7°♌13'51	
	3101 Sep 15 14:47	0°♍	
	3101 Oct 10 00:18	0°♎	
	3101 Nov 03 03:22	0°♏	
morning set	3101 Nov 04 15:57	1°♏54'11	
	3101 Nov 27 02:37	0°♐	
max. Earth dist.	3101 Dec 12 12:51	19°♐21'50	1.71289 AU
superior conj	3101 Dec 14 00:25	21°♐13'32	0°08'12
minimum elong	3101 Dec 14 02:31	21°♐20'10	0°08'06
behind sun begin	3101 Dec 13 03:54	20°♐09'06	
behind sun end	3101 Dec 15 01:08	22°♐31'13	
desc. node	3101 Dec 17 10:11	25°♐30'26	
	3101 Dec 20 23:59	0°♑	

3102 Jan 13 20:43 0°♒