conjunction	10601 Nov 12 16:12	29°♏01'05	0°56'58
minimum elong	10601 Nov 12 17:44	29°♏03'43	0°57'24
	10601 Nov 14 02:30	0°♐	
max. Earth dist.	10601 Dec 11 03:42	18°♐18'00	2.57757 AU
	10601 Dec 28 20:25	0°♑	
morning rise	10602 Jan 02 17:30	3°♑11'27	
	10602 Feb 13 13:46	0°♒	
desc. node	10602 Mar 15 19:45	18°♒47'11	
	10602 Apr 03 07:00	0°♓	
	10602 May 24 23:53	0°♈	
	10602 Jul 24 23:49	0°♉	
retrograde	10602 Sep 12 11:35	11°♉31'20	
opposition	10602 Oct 18 01:57	4°♉05'44	-5°23'55
greatest brilliancy	10602 Oct 19 16:33	3°♉31'02	-2.0m
min. Earth dist.	10602 Oct 26 09:56	1°♉06'28	0.52426 AU
	10602 Oct 29 15:44	30°℞♈	
direct	10602 Nov 26 02:05	25°♈01'33	
	10602 Dec 24 07:02	0°♉	
	10603 Feb 20 11:51	0°♊	
asc. node	10603 Mar 08 18:56	10°♊52'42	
	10603 Apr 04 14:33	0°♋	
	10603 May 14 11:56	0°♌	
	10603 Jun 22 19:20	0°♍	
	10603 Aug 01 21:17	0°♎	
	10603 Sep 12 12:51	0°♏	
	10603 Oct 26 01:42	0°♐	
evening set	10603 Nov 06 18:21	7°♐50'40	
	10603 Dec 10 09:33	0°♑	
conjunction	10603 Dec 25 12:44	9°♑48'17	0°19'32
minimum elong	10603 Dec 25 13:25	9°♑49'23	0°20'04
max. Earth dist.	10604 Jan 05 23:49	17°♑10'27	2.65774 AU
	10604 Jan 26 02:00	0°♒	
desc. node	10604 Jan 31 13:07	3°♒28'08	
morning rise	10604 Feb 08 17:59	8°♒39'59	
	10604 Mar 13 14:53	0°♓	
	10604 Apr 30 17:06	0°♈	
	10604 Jun 18 13:52	0°♉	
	10604 Aug 08 13:38	0°♊	
	10604 Oct 08 10:50	0°♋	
retrograde	10604 Nov 17 08:06	8°♋28'03	
opposition	10604 Dec 17 22:00	3°♋11'47	-2°39'12
greatest brilliancy	10604 Dec 18 15:57	2°♋58'57	-2.9m
min. Earth dist.	10604 Dec 23 23:27	1°♋28'20	0.38977 AU
	10604 Dec 29 12:14	30°℞♊	
direct	10605 Jan 19 03:05	27°♊11'42	
asc. node	10605 Jan 23 23:40	27°♊21'33	
	10605 Feb 08 13:05	0°♋	
	10605 Apr 10 10:05	0°♌	
	10605 May 25 09:42	0°♍	
	10605 Jul 07 20:01	0°♎	
	10605 Aug 20 21:30	0°♏	
	10605 Oct 05 05:15	0°♐	
	10605 Nov 20 17:54	0°♑	
evening set	10605 Dec 15 20:12	15°♑58'12	
desc. node	10605 Dec 18 09:00	17°♑34'39	
	10606 Jan 06 23:24	0°♒	
max. Earth dist.	10606 Jan 27 08:24	12°♒54'34	2.68298 AU
conjunction	10606 Jan 29 18:28	14°♒26'38	-0°22'04
minimum elong	10606 Jan 29 17:50	14°♒25'37	0°21'39
	10606 Feb 23 05:59	0°♓	
morning rise	10606 Mar 14 03:24	12°♓04'00	
	10606 Apr 10 23:56	0°♈	
	10606 May 26 21:14	0°♉	
	10606 Jul 10 20:01	0°♊	
	10606 Aug 23 23:20	0°♋	
	10606 Oct 06 21:58	0°♌	
	10606 Nov 21 23:07	0°♍	
asc. node	10606 Dec 12 01:09	11°♍34'06	
retrograde	10607 Feb 05 00:27	28°♍58'42	
min. Earth dist.	10607 Mar 02 20:02	24°♍36'14	0.39577 AU
greatest brilliancy	10607 Mar 08 09:22	22°♍55'42	-2.8m
opposition	10607 Mar 09 18:57	22°♍30'05	5°26'47
direct	10607 Apr 09 01:27	17°♍01'16	
	10607 May 28 17:20	0°♎	
	10607 Jul 24 12:36	0°♏	
	10607 Sep 12 21:41	0°♐	
	10607 Nov 01 01:13	0°♑	
desc. node	10607 Nov 05 09:35	2°♑40'22	
	10607 Dec 19 14:00	0°♒	
evening set	10608 Jan 20 17:22	20°♒09'46	
	10608 Feb 05 05:03	0°♓	
max. Earth dist.	10608 Feb 19 02:46	8°♓54'39	2.65293 AU
conjunction	10608 Mar 05 02:05	18°♓36'11	-0°55'27
minimum elong	10608 Mar 05 01:00	18°♓34'25	0°55'17
	10608 Mar 22 11:36	0°♈	
morning rise	10608 Apr 18 21:21	18°♈17'18	
	10608 May 06 02:26	0°♉	
	10608 Jun 18 00:20	0°♊	
	10608 Jul 29 08:47	0°♋	
	10608 Sep 07 13:13	0°♌	
	10608 Oct 17 06:53	0°♍	
asc. node	10608 Oct 28 20:34	8°♍40'30	
	10608 Nov 26 21:13	0°♎	
	10609 Jan 10 04:33	0°♏	
	10609 Mar 22 12:02	0°♐	
retrograde	10609 Mar 29 09:58	0°♐20'18	
	10609 Apr 05 05:20	30°℞♏	
min. Earth dist.	10609 Apr 29 04:11	23°♏51'12	0.52997 AU
greatest brilliancy	10609 May 05 12:07	21°♏27'47	-2.0m
opposition	10609 May 06 18:09	20°♏59'20	4°51'39
direct	10609 Jun 11 01:36	13°♏14'22	
	10609 Aug 10 23:50	0°♐	
desc. node	10609 Sep 22 14:49	21°♐22'12	
	10609 Oct 08 07:46	0°♑	
	10609 Nov 29 00:20	0°♒	
	10610 Jan 16 19:26	0°♓	
evening set	10610 Feb 25 08:56	25°♓29'04	
	10610 Mar 04 04:55	0°♈	
max. Earth dist.	10610 Mar 15 22:30	7°♈50'17	2.56995 AU
conjunction	10610 Apr 13 12:43	27°♈23'25	-1°08'37
minimum elong	10610 Apr 13 12:51	27°♈23'38	1°08'49
	10610 Apr 17 06:36	0°♉	
	10610 May 29 05:01	0°♊	
morning rise	10610 Jun 03 20:35	4°♊08'56	
	10610 Jul 08 08:53	0°♋	
	10610 Aug 16 07:46	0°♌	
asc. node	10610 Sep 15 14:16	23°♌36'07	
	10610 Sep 23 19:21	0°♍	
	10610 Nov 01 17:55	0°♎	
	10610 Dec 12 08:35	0°♏	
	10611 Jan 25 14:05	0°♐	
	10611 Mar 21 00:07	0°♑	
retrograde	10611 May 07 11:26	11°♑56'48	
min. Earth dist.	10611 Jun 12 18:28	3°♑33'52	0.63683 AU
opposition	10611 Jun 16 19:43	1°♑57'23	1°59'10
greatest brilliancy	10611 Jun 16 13:10	2°♑03'53	-1.5m

	10611 Jun 21 19:45	30°℞♐	
direct	10611 Jul 25 18:23	22°♐52'14	
desc. node	10611 Aug 10 20:20	24°♐20'19	
	10611 Sep 01 14:17	0°♑	
	10611 Nov 06 02:21	0°♒	
	10611 Dec 28 02:48	0°♓	
	10612 Feb 13 10:37	0°♈	
	10612 Mar 28 11:50	0°♉	
evening set	10612 Apr 08 09:33	7°♉43'38	
max. Earth dist.	10612 Apr 22 07:17	17°♉45'10	2.44321 AU
	10612 May 08 23:06	0°♊	
conjunction	10612 Jun 03 08:38	19°♊08'02	-0°40'00
minimum elong	10612 Jun 03 11:08	19°♊12'47	0°40'31
	10612 Jun 17 12:05	0°♋	
	10612 Jul 25 20:53	0°♌	
asc. node	10612 Aug 02 08:50	5°♌54'55	
morning rise	10612 Aug 09 14:37	11°♌38'07	
	10612 Sep 01 21:18	0°♍	
	10612 Oct 10 10:16	0°♎	
	10612 Nov 19 09:37	0°♏	
	10612 Dec 31 18:48	0°♐	
	10613 Feb 16 01:08	0°♑	
	10613 Apr 12 00:59	0°♒	
retrograde	10613 Jun 09 19:17	16°♒02'18	
desc. node	10613 Jun 27 21:51	13°♒55'10	
opposition	10613 Jul 20 10:24	6°♒16'23	-0°46'54
greatest brilliancy	10613 Jul 20 09:50	6°♒16'57	-1.3m
min. Earth dist.	10613 Jul 20 03:57	6°♒22'47	0.68196 AU
	10613 Aug 06 19:38	30°℞♑	
direct	10613 Aug 30 11:34	26°♑28'44	
	10613 Sep 25 03:41	0°♒	
	10613 Dec 03 18:45	0°♓	
	10614 Jan 23 04:15	0°♈	
	10614 Mar 09 00:08	0°♉	
	10614 Apr 19 11:24	0°♊	
	10614 May 28 18:13	0°♋	
evening set	10614 Jun 06 13:21	6°♋52'16	
asc. node	10614 Jun 20 04:45	17°♋36'04	
	10614 Jul 05 20:46	0°♌	
	10614 Aug 12 17:50	0°♍	
conjunction	10614 Aug 16 08:55	2°♍51'27	0°38'55
minimum elong	10614 Aug 16 05:16	2°♍44'16	0°38'36
	10614 Sep 20 06:51	0°♎	
max. Earth dist.	10614 Oct 07 22:40	13°♎24'31	2.39308 AU
morning rise	10614 Oct 25 18:30	26°♎40'51	
	10614 Oct 30 06:59	0°♏	
	10614 Dec 11 09:53	0°♐	
	10615 Jan 25 05:21	0°♑	
	10615 Mar 14 16:21	0°♒	
	10615 May 09 15:42	0°♓	
desc. node	10615 May 15 18:59	2°♓47'48	
retrograde	10615 Jul 14 19:54	18°♓45'35	
opposition	10615 Aug 23 10:35	9°♓37'01	-3°12'56
greatest brilliancy	10615 Aug 23 18:50	9°♓28'59	-1.4m
min. Earth dist.	10615 Aug 26 23:43	8°♓14'07	0.66116 AU
	10615 Sep 25 19:12	30°℞♒	
direct	10615 Oct 04 02:30	29°♒33'39	
	10615 Oct 12 14:25	0°♓	
	10615 Dec 29 09:10	0°♈	
	10616 Feb 15 11:25	0°♉	
	10616 Mar 28 20:17	0°♊	
asc. node	10616 May 07 06:24	29°♊55'40	
	10616 May 07 08:38	0°♋	
	10616 Jun 14 13:11	0°♌	
	10616 Jul 22 13:48	0°♍	
evening set	10616 Aug 20 14:32	22°♍31'30	
	10616 Aug 30 09:32	0°♎	
	10616 Oct 09 18:34	0°♏	
conjunction	10616 Oct 23 06:09	9°♏42'20	1°05'09
minimum elong	10616 Oct 23 06:59	9°♏43'49	1°05'27
	10616 Nov 21 04:20	0°♐	
max. Earth dist.	10616 Nov 28 22:18	5°♐19'09	2.53220 AU
morning rise	10616 Dec 17 07:38	17°♐45'03	
	10617 Jan 04 19:31	0°♑	
	10617 Feb 20 17:33	0°♒	
desc. node	10617 Apr 01 12:12	24°♒12'20	
	10617 Apr 11 08:49	0°♓	
	10617 Jun 05 06:45	0°♈	
retrograde	10617 Aug 23 23:17	25°♈05'00	
opposition	10617 Sep 30 02:22	17°♈01'31	-5°03'55
greatest brilliancy	10617 Oct 01 08:24	16°♈33'30	-1.7m
min. Earth dist.	10617 Oct 07 07:36	14°♈20'09	0.57450 AU
direct	10617 Nov 09 10:34	7°♈24'08	
	10618 Jan 16 06:50	0°♉	
	10618 Mar 04 14:42	0°♊	
asc. node	10618 Mar 25 10:58	14°♊53'48	
	10618 Apr 14 17:49	0°♋	
	10618 May 23 18:13	0°♌	
	10618 Jul 01 11:05	0°♍	
	10618 Aug 09 23:59	0°♎	
	10618 Sep 20 03:14	0°♏	
evening set	10618 Oct 19 12:57	20°♏37'13	
	10618 Nov 02 05:30	0°♐	
conjunction	10618 Dec 10 02:00	25°♐18'10	0°35'28
minimum elong	10618 Dec 10 03:12	25°♐20'09	0°36'00
	10618 Dec 17 05:59	0°♑	
max. Earth dist.	10618 Dec 27 15:44	6°♑46'38	2.63283 AU
morning rise	10619 Jan 25 23:47	25°♑37'47	
	10619 Feb 01 20:43	0°♒	
desc. node	10619 Feb 17 04:00	9°♒40'17	
	10619 Mar 21 16:56	0°♓	
	10619 May 09 18:09	0°♈	
	10619 Jun 30 00:38	0°♉	
	10619 Aug 28 00:54	0°♊	
retrograde	10619 Oct 19 17:19	13°♊14'26	
opposition	10619 Nov 21 09:13	7°♊04'51	-4°40'53
greatest brilliancy	10619 Nov 22 22:46	6°♊34'32	-2.5m
min. Earth dist.	10619 Nov 29 19:01	4°♊23'25	0.43829 AU
	10619 Dec 19 14:12	30°℞♉	
direct	10619 Dec 26 19:37	29°♉37'19	
	10620 Jan 03 02:29	0°♊	
asc. node	10620 Feb 10 14:24	12°♊14'05	
	10620 Mar 12 20:06	0°♋	
	10620 Apr 25 18:29	0°♌	
	10620 Jun 06 02:38	0°♍	
	10620 Jul 17 14:57	0°♎	
	10620 Aug 29 09:46	0°♏	
	10620 Oct 12 20:05	0°♐	
	10620 Nov 27 18:33	0°♑	
evening set	10620 Dec 01 01:50	2°♑07'38	
desc. node	10621 Jan 03 22:36	23°♑47'17	
	10621 Jan 13 17:02	0°♒	
conjunction	10621 Jan 16 01:42	1°♒30'00	-0°06'28
minimum elong	10621 Jan 16 01:31	1°♒29'41	0°05'59
behind sun begin	10621 Jan 15 08:01	1°♒01'56	
behind sun end	10621 Jan 16 19:00	1°♒57'26	
max. Earth dist.	10621 Jan 18 19:30	3°♒14'24	2.67958 AU
morning rise	10621 Feb 28 19:00	29°♒13'39	
	10621 Mar 02 00:13	0°♓	

	10621 Apr 18 03:28	0°♈	
	10621 Jun 03 21:07	0°♉	
	10621 Jul 20 07:13	0°♊	
	10621 Sep 04 22:24	0°♋	
	10621 Oct 23 23:09	0°♌	
asc. node	10621 Dec 28 16:27	26°♌52'17	
retrograde	10622 Jan 07 10:42	27°♌30'20	
min. Earth dist.	10622 Feb 04 01:00	23°♌01'58	0.36688 AU
opposition	10622 Feb 06 16:50	22°♌19'06	3°02'36
greatest brilliancy	10622 Feb 06 07:23	22°♌25'27	-3.0m
direct	10622 Mar 07 19:36	17°♌27'04	
	10622 Apr 24 09:32	0°♍	
	10622 Jun 17 22:31	0°♎	
	10622 Aug 05 04:52	0°♏	
	10622 Sep 21 19:04	0°♐	
	10622 Nov 08 14:52	0°♑	
desc. node	10622 Nov 21 22:18	8°♑19'46	
	10622 Dec 26 12:18	0°♒	
evening set	10623 Jan 06 22:05	7°♒10'27	
max. Earth dist.	10623 Feb 10 04:45	28°♒53'35	2.67118 AU
	10623 Feb 11 22:22	0°♓	
conjunction	10623 Feb 20 03:54	5°♓15'59	-0°44'10
minimum elong	10623 Feb 20 02:50	5°♓14'17	0°43'54
	10623 Mar 30 07:50	0°♈	
morning rise	10623 Apr 04 23:27	3°♈42'44	
	10623 May 14 08:22	0°♉	
	10623 Jun 26 21:20	0°♊	
	10623 Aug 08 00:43	0°♋	
	10623 Sep 18 02:50	0°♌	
	10623 Oct 28 23:35	0°♍	
asc. node	10623 Nov 15 15:31	12°♍43'27	
	10623 Dec 10 13:45	0°♎	
	10624 Jan 31 08:34	0°♏	
retrograde	10624 Mar 11 03:42	9°♏57'06	
min. Earth dist.	10624 Apr 08 11:06	4°♏23'51	0.47591 AU
greatest brilliancy	10624 Apr 15 06:02	1°♏58'31	-2.3m
opposition	10624 Apr 16 21:37	1°♏23'00	5°42'54
	10624 Apr 20 20:13	30°℞♎	
direct	10624 May 20 06:19	24°♎25'39	
	10624 Jun 20 22:51	0°♏	
	10624 Aug 25 12:31	0°♐	
desc. node	10624 Oct 09 02:06	25°♐06'59	
	10624 Oct 17 10:51	0°♑	
	10624 Dec 06 12:58	0°♒	
	10625 Jan 23 18:12	0°♓	
evening set	10625 Feb 10 17:11	11°♓29'05	
max. Earth dist.	10625 Mar 05 04:31	26°♓07'50	2.60833 AU
	10625 Mar 11 01:06	0°♈	
conjunction	10625 Mar 28 06:51	11°♈31'37	-1°06'59
minimum elong	10625 Mar 28 06:15	11°♈30'37	1°07'03
	10625 Apr 24 06:47	0°♉	
morning rise	10625 May 15 04:50	14°♉41'00	
	10625 Jun 05 12:59	0°♊	
	10625 Jul 16 02:16	0°♋	
	10625 Aug 24 10:18	0°♌	
asc. node	10625 Oct 02 08:46	0°♍04'53	
	10625 Oct 02 06:14	0°♍	
	10625 Nov 10 13:51	0°♎	
	10625 Dec 21 20:57	0°♏	
	10626 Feb 06 06:50	0°♐	
retrograde	10626 Apr 23 05:33	27°♐18'42	
min. Earth dist.	10626 May 27 12:53	19°♐34'54	0.60169 AU
greatest brilliancy	10626 Jun 01 10:59	17°♐38'48	-1.6m
opposition	10626 Jun 02 01:05	17°♐24'56	3°07'22
direct	10626 Jul 09 18:07	8°♐45'24	
desc. node	10626 Aug 27 07:32	19°♐53'23	
	10626 Sep 19 13:08	0°♑	
	10626 Nov 15 08:31	0°♒	
	10627 Jan 04 17:20	0°♓	
	10627 Feb 20 13:49	0°♈	
evening set	10627 Mar 22 08:57	20°♈06'48	
max. Earth dist.	10627 Apr 05 11:11	29°♈54'50	2.49645 AU
	10627 Apr 05 14:08	0°♉	
conjunction	10627 May 12 21:17	26°♉49'01	-0°58'02
minimum elong	10627 May 12 23:05	26°♉52'21	0°58'26
	10627 May 17 04:53	0°♊	
	10627 Jun 25 22:47	0°♋	
morning rise	10627 Jul 11 20:03	12°♋17'01	
	10627 Aug 03 11:58	0°♌	
asc. node	10627 Aug 20 02:18	13°♌03'07	
	10627 Sep 10 15:29	0°♍	
	10627 Oct 19 06:26	0°♎	
	10627 Nov 28 08:24	0°♏	
	10628 Jan 10 02:34	0°♐	
	10628 Feb 26 19:37	0°♑	
	10628 May 03 06:11	0°♒	
retrograde	10628 May 27 15:38	3°♒24'42	
	10628 Jun 19 09:58	30°℞♑	
min. Earth dist.	10628 Jul 05 13:39	24°♑11'53	0.67214 AU
opposition	10628 Jul 07 07:37	23°♑30'10	0°15'11
greatest brilliancy	10628 Jul 07 07:21	23°♑30'26	-1.4m
desc. node	10628 Jul 14 11:01	20°♑43'03	
direct	10628 Aug 16 16:51	13°♑55'53	
	10628 Oct 16 11:29	0°♒	
	10628 Dec 13 06:47	0°♓	
	10629 Jan 31 01:35	0°♈	
	10629 Mar 16 11:40	0°♉	
	10629 Apr 26 21:56	0°♊	
evening set	10629 May 11 15:47	11°♊05'31	
	10629 Jun 05 06:27	0°♋	
max. Earth dist.	10629 Jun 21 20:25	12°♋57'30	2.36807 AU
asc. node	10629 Jul 06 23:10	24°♋52'29	
	10629 Jul 13 10:36	0°♌	
conjunction	10629 Jul 16 05:52	2°♌13'13	0°06'47
minimum elong	10629 Jul 16 05:10	2°♌11'49	0°06'17
behind sun begin	10629 Jul 15 00:59	1°♌16'01	
behind sun end	10629 Jul 17 09:21	3°♌07'38	
	10629 Aug 20 07:58	0°♍	
	10629 Sep 27 19:43	0°♎	
morning rise	10629 Sep 28 01:33	0°♎11'12	
	10629 Nov 06 17:45	0°♏	
	10629 Dec 18 20:18	0°♐	
	10630 Feb 01 22:46	0°♑	
	10630 Mar 23 18:15	0°♒	
	10630 May 27 09:57	0°♓	
desc. node	10630 Jun 01 09:48	1°♓31'11	
retrograde	10630 Jun 30 20:28	6°♓07'31	
	10630 Aug 01 08:32	30°℞♒	
opposition	10630 Aug 10 00:23	26°♒41'47	-2°19'15
greatest brilliancy	10630 Aug 10 03:19	26°♒38'55	-1.3m
min. Earth dist.	10630 Aug 12 01:33	25°♒53'30	0.67727 AU
direct	10630 Sep 20 14:53	16°♒41'11	
	10630 Nov 12 21:00	0°♓	
	10631 Jan 08 16:27	0°♈	
	10631 Feb 23 23:30	0°♉	
	10631 Apr 06 20:39	0°♊	
	10631 May 16 05:31	0°♋	
asc. node	10631 May 24 22:14	6°♋47'26	
	10631 Jun 23 08:17	0°♌	
evening set	10631 Jul 22 23:23	23°♌27'52	

	10631 Jul 31	06:30	0°♍		
	10631 Sep 07	22:25	0°♎		
conjunction	10631 Sep 30	07:25	16°♎52'43	1°05'11	
minimum elong	10631 Sep 30	06:16	16°♎50'34	1°05'18	
	10631 Oct 18	02:27	0°♏		
max. Earth dist.	10631 Nov 15	00:57	20°♏01'51	2.47964 AU	
morning rise	10631 Nov 29	19:35	0°♐20'31		
	10631 Nov 29	07:43	0°♐		
	10632 Jan 12	21:47	0°♑		
	10632 Feb 29	04:17	0°♒		
desc. node	10632 Apr 18	03:54	28°♒50'26		
	10632 Apr 20	05:53	0°♓		
	10632 Jun 21	00:13	0°♈		
retrograde	10632 Aug 06	19:06	10°♈21'21		
opposition	10632 Sep 14	02:25	1°♈48'05	-4°27'42	
greatest brilliancy	10632 Sep 14	23:02	1°♈28'25	-1.5m	
	10632 Sep 18	19:35	30°℞♓		
min. Earth dist.	10632 Sep 19	22:46	29°♓34'14	0.61587 AU	
direct	10632 Oct 25	05:58	21°♓53'05		
	10632 Dec 02	18:05	0°♈		
	10633 Jan 29	05:52	0°♉		
	10633 Mar 14	12:58	0°♊		
asc. node	10633 Apr 11	00:26	20°♊18'08		
	10633 Apr 23	18:02	0°♋		
	10633 Jun 01	07:22	0°♌		
	10633 Jul 09	15:39	0°♍		
	10633 Aug 17	19:58	0°♎		
	10633 Sep 27	14:15	0°♏		
evening set	10633 Sep 28	18:47	0°♏51'15		
	10633 Nov 09	08:22	0°♐		
conjunction	10633 Nov 23	03:20	9°♐22'49	0°49'57	
minimum elong	10633 Nov 23	04:53	9°♐25'26	0°50'26	
max. Earth dist.	10633 Dec 17	09:44	25°♐34'23	2.59945 AU	
	10633 Dec 24	03:17	0°♑		
morning rise	10634 Jan 11	11:07	11°♑55'25		
	10634 Feb 08	18:17	0°♒		
desc. node	10634 Mar 05	20:38	15°♒43'14		
	10634 Mar 29	01:35	0°♓		
	10634 May 18	13:01	0°♈		
	10634 Jul 13	06:31	0°♉		
retrograde	10634 Sep 24	20:22	22°♉22'53		
opposition	10634 Oct 29	10:34	15°♉21'43	-5°22'07	
greatest brilliancy	10634 Oct 31	03:48	14°♉45'40	-2.1m	
min. Earth dist.	10634 Nov 07	02:33	12°♉20'44	0.49419 AU	
direct	10634 Dec 06	09:45	6°♉44'31		
	10635 Feb 10	20:18	0°♊		
asc. node	10635 Feb 27	05:23	10°♊04'29		
	10635 Mar 28	11:17	0°♋		
	10635 May 08	05:28	0°♌		
	10635 Jun 17	00:38	0°♍		
	10635 Jul 27	11:26	0°♎		
	10635 Sep 07	10:09	0°♏		
	10635 Oct 21	04:56	0°♐		
evening set	10635 Nov 16	07:43	17°♐20'39		
	10635 Dec 05	16:42	0°♑		
conjunction	10636 Jan 02	22:00	18°♑11'08	0°09'57	
minimum elong	10636 Jan 02	22:21	18°♑11'42	0°10'29	
behind sun begin	10636 Jan 02	07:46	17°♑48'22		
behind sun end	10636 Jan 03	12:57	18°♑35'01		
max. Earth dist.	10636 Jan 11	04:22	23°♑28'02	2.66787 AU	
desc. node	10636 Jan 21	14:16	0°♒06'04		
	10636 Jan 21	10:27	0°♒		
morning rise	10636 Feb 16	11:02	16°♒29'55		
	10636 Mar 08	20:21	0°♓		
	10636 Apr 25	12:36	0°♈		
	10636 Jun 12	11:00	0°♉		
	10636 Jul 31	06:10	0°♊		
	10636 Sep 21	09:55	0°♋		
retrograde	10636 Dec 05	16:34	25°♋26'03		
opposition	10637 Jan 04	12:45	20°♋28'25	-0°45'22	
greatest brilliancy	10637 Jan 04	16:26	20°♋25'55	-3.0m	
min. Earth dist.	10637 Jan 07	22:02	19°♋33'16	0.37234 AU	
asc. node	10637 Jan 14	08:35	17°♋53'37		
direct	10637 Feb 04	04:32	15°♋09'16		
	10637 Mar 26	22:45	0°♌		
	10637 May 16	15:20	0°♍		
	10637 Jun 30	23:51	0°♎		
	10637 Aug 15	01:38	0°♏		
	10637 Sep 30	00:14	0°♐		
	10637 Nov 15	21:45	0°♑		
desc. node	10637 Dec 08	11:05	14°♑17'07		
evening set	10637 Dec 23	23:03	24°♑04'39		
	10638 Jan 02	08:00	0°♒		
max. Earth dist.	10638 Feb 01	08:49	19°♒00'39	2.68114 AU	
conjunction	10638 Feb 06	12:24	22°♒16'52	-0°30'43	
minimum elong	10638 Feb 06	11:34	22°♒15'32	0°30'20	
	10638 Feb 18	15:28	0°♓		
morning rise	10638 Mar 21	21:49	20°♓03'25		
	10638 Apr 06	05:59	0°♈		
	10638 May 21	19:10	0°♉		
	10638 Jul 05	03:56	0°♊		
	10638 Aug 17	10:18	0°♋		
	10638 Sep 28	23:59	0°♌		
	10638 Nov 11	04:26	0°♍		
asc. node	10638 Dec 02	07:57	13°♍51'33		
	10638 Dec 30	00:13	0°♎		
retrograde	10639 Feb 18	19:47	15°♎27'24		
min. Earth dist.	10639 Mar 17	04:01	10°♎45'37	0.42200 AU	
greatest brilliancy	10639 Mar 23	13:24	8°♎41'06	-2.6m	
opposition	10639 Mar 25	06:12	8°♎07'42	5°55'30	
direct	10639 Apr 25	12:22	2°♎06'51		
	10639 Jul 15	10:38	0°♏		
	10639 Sep 06	13:54	0°♐		
desc. node	10639 Oct 26	13:35	29°♐52'54		
	10639 Oct 26	18:16	0°♑		
	10639 Dec 14	18:27	0°♒		
evening set	10640 Jan 28	14:51	28°♒06'33		
	10640 Jan 31	14:12	0°♓		
max. Earth dist.	10640 Feb 24	12:17	15°♓22'03	2.63945 AU	
conjunction	10640 Mar 13	05:54	26°♓57'00	-1°00'45	
minimum elong	10640 Mar 13	04:54	26°♓55'22	1°00'40	
	10640 Mar 17	20:56	0°♈		
morning rise	10640 Apr 27	21:36	27°♈36'59		
	10640 May 01	08:49	0°♉		
	10640 Jun 13	01:04	0°♊		
	10640 Jul 24	02:19	0°♋		
	10640 Sep 01	22:18	0°♌		
	10640 Oct 11	06:07	0°♍		
asc. node	10640 Oct 19	04:33	6°♍01'49		
	10640 Nov 20	05:02	0°♎		
	10641 Jan 01	21:02	0°♏		
	10641 Feb 23	06:37	0°♐		
retrograde	10641 Apr 07	21:43	11°♐05'23		
min. Earth dist.	10641 May 09	23:46	4°♐07'17	0.55774 AU	
opposition	10641 May 16	21:05	1°♐28'00	4°15'09	
greatest brilliancy	10641 May 15	21:10	1°♐51'07	-1.8m	
	10641 May 20	17:37	30°℞♏		
direct	10641 Jun 22	02:49	23°♏20'56		
	10641 Jul 27	20:55	0°♐		

desc. node	10641 Sep 12 18:47	20°♐13'57		
	10641 Oct 01 14:18	0°♑		
	10641 Nov 23 16:31	0°♒		
	10642 Jan 11 23:39	0°♓		
	10642 Feb 27 12:59	0°♈		
evening set	10642 Mar 06 02:27	4°♈21'47		
max. Earth dist.	10642 Mar 22 19:51	15°♈39'00	2.54564 AU	
	10642 Apr 12 14:39	0°♉		
conjunction	10642 Apr 23 11:46	7°♉39'37	-1°06'54	
minimum elong	10642 Apr 23 12:28	7°♉40'51	1°07'12	
	10642 May 24 10:43	0°♊		
morning rise	10642 Jun 16 08:39	17°♊01'58		
	10642 Jul 03 11:26	0°♋		
	10642 Aug 11 06:52	0°♌		
asc. node	10642 Sep 05 22:08	20°♌03'25		
	10642 Sep 18 15:09	0°♍		
	10642 Oct 27 09:58	0°♎		
	10642 Dec 06 17:36	0°♏		
	10643 Jan 19 04:27	0°♐		
	10643 Mar 10 19:41	0°♑		
retrograde	10643 May 15 08:00	20°♑18'03		
min. Earth dist.	10643 Jun 21 14:40	11°♑35'54	0.65204 AU	
opposition	10643 Jun 24 20:09	10°♑18'49	1°20'03	
greatest brilliancy	10643 Jun 24 16:42	10°♑22'16	-1.4m	
desc. node	10643 Jul 31 22:50	1°♑04'07		
direct	10643 Aug 03 08:20	1°♑01'59		
	10643 Oct 30 04:15	0°♒		
	10643 Dec 22 18:10	0°♓		
	10644 Feb 08 13:15	0°♈		
	10644 Mar 23 17:51	0°♉		
evening set	10644 Apr 19 14:13	19°♉13'54		
	10644 May 04 04:59	0°♊		
max. Earth dist.	10644 May 06 01:46	1°♊23'20	2.41329 AU	
	10644 Jun 12 16:38	0°♋		
conjunction	10644 Jun 17 16:39	3°♋52'46	-0°25'15	
minimum elong	10644 Jun 17 18:46	3°♋56'51	0°25'47	
	10644 Jul 20 23:44	0°♌		
asc. node	10644 Jul 23 15:47	2°♌06'31		
morning rise	10644 Aug 27 14:32	29°♌43'40		
	10644 Aug 27 22:49	0°♍		
	10644 Oct 05 10:53	0°♎		
	10644 Nov 14 08:40	0°♏		
	10644 Dec 26 13:31	0°♐		
	10645 Feb 10 05:17	0°♑		
	10645 Apr 03 11:28	0°♒		
retrograde	10645 Jun 17 09:46	23°♒40'35		
desc. node	10645 Jun 17 23:49	23°♒40'28		
opposition	10645 Jul 27 21:43	14°♒01'05	-1°22'03	
greatest brilliancy	10645 Jul 27 21:40	14°♒01'08	-1.3m	
min. Earth dist.	10645 Jul 28 11:06	13°♒47'51	0.68306 AU	
direct	10645 Sep 07 04:39	4°♒07'44		
	10645 Nov 26 14:48	0°♓		
	10646 Jan 17 15:50	0°♈		
	10646 Mar 03 23:03	0°♉		
	10646 Apr 14 13:49	0°♊		
	10646 May 23 21:29	0°♋		
asc. node	10646 Jun 10 13:47	13°♋51'05		
evening set	10646 Jun 22 16:06	23°♋24'14		
	10646 Jun 30 23:50	0°♌		
	10646 Aug 07 20:43	0°♍		
conjunction	10646 Sep 02 11:31	20°♍01'59	0°52'37	
minimum elong	10646 Sep 02 08:00	19°♍55'11	0°52'27	
	10646 Sep 15 10:01	0°♎		
max. Earth dist.	10646 Oct 25 11:32	0°♏01'58	2.42349 AU	
	10646 Oct 25 10:27	0°♏		
morning rise	10646 Nov 08 11:20	10°♏11'09		
	10646 Dec 06 12:52	0°♐		
	10647 Jan 20 04:29	0°♑		
	10647 Mar 09 01:20	0°♒		
	10647 May 01 12:52	0°♓		
desc. node	10647 May 05 20:35	2°♓10'59		
retrograde	10647 Jul 23 05:46	26°♓44'21		
opposition	10647 Aug 31 10:33	17°♓47'14	-3°42'16	
greatest brilliancy	10647 Aug 31 22:46	17°♓35'24	-1.4m	
min. Earth dist.	10647 Sep 04 19:33	16°♓05'33	0.64774 AU	
direct	10647 Oct 11 23:48	7°♓44'52		
	10647 Dec 21 09:25	0°♈		
	10648 Feb 09 12:24	0°♉		
	10648 Mar 23 10:35	0°♊		
asc. node	10648 Apr 27 15:45	26°♊30'34		
	10648 May 02 04:19	0°♋		
	10648 Jun 09 11:31	0°♌		
	10648 Jul 17 14:07	0°♍		
	10648 Aug 25 11:57	0°♎		
evening set	10648 Sep 04 18:03	7°♎43'55		
	10648 Oct 04 22:58	0°♏		
conjunction	10648 Nov 04 03:57	21°♏29'28	1°01'10	
minimum elong	10648 Nov 04 05:19	21°♏31'53	1°01'33	
	10648 Nov 16 10:20	0°♐		
max. Earth dist.	10648 Dec 06 04:24	13°♐27'26	2.55811 AU	
morning rise	10648 Dec 26 20:32	27°♐14'02		
	10648 Dec 31 01:25	0°♑		
	10649 Feb 15 19:16	0°♒		
desc. node	10649 Mar 22 12:49	21°♒25'31		
	10649 Apr 05 19:33	0°♓		
	10649 May 28 13:39	0°♈		
	10649 Aug 04 19:28	0°♉		
retrograde	10649 Sep 03 17:46	4°♉41'27		
	10649 Oct 01 07:23	30°℞♈		
opposition	10649 Oct 10 00:55	26°♈57'56	-5°17'50	
greatest brilliancy	10649 Oct 11 12:02	26°♈25'43	-1.8m	
min. Earth dist.	10649 Oct 17 21:46	24°♈05'08	0.54750 AU	
direct	10649 Nov 18 16:35	17°♈36'36		
	10650 Jan 04 19:46	0°♉		
	10650 Feb 25 09:51	0°♊		
asc. node	10650 Mar 15 18:57	12°♊41'37		
	10650 Apr 08 13:09	0°♋		
	10650 May 18 00:19	0°♌		
	10650 Jun 26 00:11	0°♍		
	10650 Aug 04 19:09	0°♎		
	10650 Sep 15 03:42	0°♏		
	10650 Oct 28 10:25	0°♐		
evening set	10650 Oct 30 03:23	1°♐09'22		
	10650 Dec 12 13:38	0°♑		
conjunction	10650 Dec 19 00:37	4°♑12'22	0°26'17	
minimum elong	10650 Dec 19 01:32	4°♑13'52	0°26'50	
max. Earth dist.	10651 Jan 02 03:28	13°♑20'27	2.64766 AU	
	10651 Jan 28 04:25	0°♒		
morning rise	10651 Feb 02 21:56	3°♒38'19		
desc. node	10651 Feb 07 05:22	6°♒22'12		
	10651 Mar 16 19:38	0°♓		
	10651 May 04 06:36	0°♈		
	10651 Jun 23 00:37	0°♉		
	10651 Aug 15 10:06	0°♊		
retrograde	10651 Nov 04 17:51	27°♊18'29		
opposition	10651 Dec 06 05:44	21°♊39'43	-3°43'41	
greatest brilliancy	10651 Dec 07 10:15	21°♊18'10	-2.7m	
min. Earth dist.	10651 Dec 13 17:42	19°♊24'48	0.40945 AU	
direct	10652 Jan 08 22:11	15°♊00'18		

asc. node	10652 Jan 31 23:46	18°♊34'23	
	10652 Feb 28 08:29	0°♋	
	10652 Apr 17 04:32	0°♌	
	10652 May 30 02:55	0°♍	
	10652 Jul 11 12:39	0°♎	
	10652 Aug 23 21:58	0°♏	
	10652 Oct 07 18:33	0°♐	
	10652 Nov 22 23:45	0°♑	
evening set	10652 Dec 09 14:49	10°♑38'08	
desc. node	10652 Dec 25 00:48	20°♑27'11	
	10653 Jan 09 01:41	0°♒	
conjunction	10653 Jan 23 22:46	9°♒26'10	-0°15'45
minimum elong	10653 Jan 23 22:18	9°♒25'26	0°15'16
behind sun begin	10653 Jan 23 17:01	9°♒17'05	
behind sun end	10653 Jan 24 03:34	9°♒33'48	
max. Earth dist.	10653 Jan 23 19:14	9°♒20'34	2.68256 AU
	10653 Feb 25 08:21	0°♓	
morning rise	10653 Mar 08 09:44	7°♓02'20	
	10653 Apr 13 06:25	0°♈	
	10653 May 29 12:37	0°♉	
	10653 Jul 14 01:47	0°♊	
	10653 Aug 28 03:44	0°♋	
	10653 Oct 12 16:52	0°♌	
	10653 Dec 02 03:38	0°♍	
asc. node	10653 Dec 19 02:14	7°♍52'45	
retrograde	10654 Jan 24 04:32	16°♍01'55	
min. Earth dist.	10654 Feb 19 07:04	11°♍44'49	0.37917 AU
opposition	10654 Feb 24 16:08	10°♍13'01	4°40'30
greatest brilliancy	10654 Feb 23 16:18	10°♍30'05	-2.9m
direct	10654 Mar 26 05:58	5°♍06'05	
	10654 Jun 07 06:40	0°♎	
	10654 Jul 29 01:54	0°♏	
	10654 Sep 16 00:37	0°♐	
	10654 Nov 03 12:35	0°♑	
desc. node	10654 Nov 12 00:39	5°♑16'14	
	10654 Dec 21 18:21	0°♒	
evening set	10655 Jan 14 19:50	15°♒06'19	
	10655 Feb 07 07:31	0°♓	
max. Earth dist.	10655 Feb 15 08:30	5°♓08'28	2.66220 AU
conjunction	10655 Feb 28 01:39	13°♓19'21	-0°51'06
minimum elong	10655 Feb 28 00:33	13°♓17'34	0°50'53
	10655 Mar 25 15:57	0°♈	
morning rise	10655 Apr 13 08:17	12°♈22'11	
	10655 May 09 11:52	0°♉	
	10655 Jun 21 16:52	0°♊	
	10655 Aug 02 09:58	0°♋	
	10655 Sep 11 23:26	0°♌	
	10655 Oct 22 03:09	0°♍	
asc. node	10655 Nov 05 22:33	10°♍57'01	
	10655 Dec 02 08:39	0°♎	
	10656 Jan 17 11:40	0°♏	
retrograde	10656 Mar 21 20:31	22°♏23'51	
min. Earth dist.	10656 Apr 20 11:51	16°♏19'10	0.50625 AU
greatest brilliancy	10656 Apr 27 02:17	13°♏52'51	-2.1m
opposition	10656 Apr 28 12:48	13°♏20'45	5°16'39
direct	10656 Jun 02 00:33	5°♏55'38	
	10656 Aug 16 22:06	0°♐	
desc. node	10656 Sep 29 05:25	23°♐03'19	
	10656 Oct 11 11:49	0°♑	
	10656 Dec 01 10:57	0°♒	
	10657 Jan 19 00:36	0°♓	
evening set	10657 Feb 18 23:50	19°♓52'02	
	10657 Mar 06 09:56	0°♈	
max. Earth dist.	10657 Mar 11 06:08	3°♈12'56	2.58810 AU
conjunction	10657 Apr 06 08:08	20°♈50'12	-1°08'37
minimum elong	10657 Apr 06 07:54	20°♈49'48	1°08'46
	10657 Apr 19 14:38	0°♉	
morning rise	10657 May 25 23:10	25°♉48'54	
	10657 May 31 17:23	0°♊	
	10657 Jul 11 02:10	0°♋	
	10657 Aug 19 05:19	0°♌	
asc. node	10657 Sep 22 16:02	26°♌45'35	
	10657 Sep 26 20:11	0°♍	
	10657 Nov 04 21:40	0°♎	
	10657 Dec 15 16:42	0°♏	
	10658 Jan 29 12:54	0°♐	
	10658 Mar 29 13:28	0°♑	
retrograde	10658 May 01 12:19	6°♑18'53	
	10658 Jun 01 06:21	30°℞♐	
min. Earth dist.	10658 Jun 05 22:30	28°♐12'19	0.62227 AU
opposition	10658 Jun 10 15:04	26°♐20'50	2°27'36
greatest brilliancy	10658 Jun 10 05:36	26°♐30'13	-1.6m
direct	10658 Jul 19 00:43	17°♐26'22	
desc. node	10658 Aug 17 11:16	21°♐59'39	
	10658 Sep 09 09:18	0°♑	
	10658 Nov 09 07:21	0°♒	
	10658 Dec 30 14:50	0°♓	
	10659 Feb 15 18:56	0°♈	
	10659 Mar 31 21:17	0°♉	
evening set	10659 Apr 01 08:29	0°♉19'40	
max. Earth dist.	10659 Apr 14 21:38	9°♉55'52	2.46745 AU
	10659 May 12 11:16	0°♊	
conjunction	10659 May 25 03:21	9°♊26'52	-0°48'58
minimum elong	10659 May 25 05:40	9°♊31'13	0°49'26
	10659 Jun 21 03:22	0°♋	
morning rise	10659 Jul 28 01:45	28°♋47'41	
	10659 Jul 29 14:30	0°♌	
asc. node	10659 Aug 10 10:34	9°♌19'38	
	10659 Sep 05 16:02	0°♍	
	10659 Oct 14 05:07	0°♎	
	10659 Nov 23 04:05	0°♏	
	10660 Jan 04 14:34	0°♐	
	10660 Feb 20 06:16	0°♑	
	10660 Apr 17 20:51	0°♒	
retrograde	10660 Jun 04 05:12	11°♒10'44	
desc. node	10660 Jul 04 13:40	5°♒18'24	
opposition	10660 Jul 14 20:49	1°♒20'32	-0°21'39
min. Earth dist.	10660 Jul 13 22:39	1°♒42'33	0.67878 AU
greatest brilliancy	10660 Jul 14 20:23	1°♒20'57	-1.3m
	10660 Jul 18 06:13	30°℞♑	
direct	10660 Aug 24 14:58	21°♑38'19	
	10660 Oct 05 02:06	0°♒	
	10660 Dec 07 03:15	0°♓	
	10661 Jan 25 20:40	0°♈	
	10661 Mar 11 13:49	0°♉	
	10661 Apr 22 01:46	0°♊	
evening set	10661 May 25 18:50	25°♊37'31	
	10661 May 31 10:15	0°♋	
asc. node	10661 Jun 27 05:56	21°♋02'06	
	10661 Jul 08 13:53	0°♌	
conjunction	10661 Aug 02 16:07	19°♌53'42	0°25'51
minimum elong	10661 Aug 02 13:23	19°♌48'17	0°25'25
	10661 Aug 15 10:53	0°♍	
max. Earth dist.	10661 Sep 12 03:00	21°♍39'10	2.37202 AU
	10661 Sep 22 22:43	0°♎	
morning rise	10661 Oct 14 04:58	16°♎08'53	
	10661 Nov 01 20:44	0°♏	
	10661 Dec 13 21:41	0°♐	
	10662 Jan 27 17:50	0°♑	

	10662 Mar 17 14:07	0°♒	
	10662 May 14 19:58	0°♓	
desc. node	10662 May 22 11:44	3°♓08'13	
retrograde	10662 Jul 08 18:28	13°♓48'12	
opposition	10662 Aug 17 15:24	4°♓31'34	-2°51'09
greatest brilliancy	10662 Aug 17 21:04	4°♓26'01	-1.3m
min. Earth dist.	10662 Aug 20 12:33	3°♓23'53	0.66963 AU
	10662 Aug 29 13:53	30°℞♒	
direct	10662 Sep 28 06:54	24°♒28'43	
	10662 Oct 30 12:08	0°♓	
	10663 Jan 02 05:02	0°♈	
	10663 Feb 18 12:48	0°♉	
	10663 Apr 01 17:24	0°♊	
	10663 May 11 04:55	0°♋	
asc. node	10663 May 15 06:17	3°♋09'23	
	10663 Jun 18 08:46	0°♌	
	10663 Jul 26 07:49	0°♍	
evening set	10663 Aug 09 00:19	10°♍42'21	
	10663 Sep 03 01:02	0°♎	
	10663 Oct 13 06:38	0°♏	
conjunction	10663 Oct 14 07:55	0°♏46'01	1°06'25
minimum elong	10663 Oct 14 08:04	0°♏46'17	1°06'40
max. Earth dist.	10663 Nov 24 00:36	29°♏38'41	2.50960 AU
	10663 Nov 24 12:56	0°♐	
morning rise	10663 Dec 10 14:56	11°♐00'50	
	10664 Jan 08 02:06	0°♑	
	10664 Feb 24 01:51	0°♒	
desc. node	10664 Apr 08 05:38	26°♒34'29	
	10664 Apr 14 04:05	0°♓	
	10664 Jun 10 01:55	0°♈	
retrograde	10664 Aug 16 08:00	19°♈04'01	
opposition	10664 Sep 23 00:02	10°♈46'25	-4°49'51
greatest brilliancy	10664 Sep 24 01:55	10°♈21'59	-1.6m
min. Earth dist.	10664 Sep 29 14:48	8°♈16'38	0.59422 AU
direct	10664 Nov 02 17:44	0°♈59'27	
	10665 Jan 21 14:30	0°♉	
	10665 Mar 08 10:31	0°♊	
asc. node	10665 Apr 01 10:52	17°♊25'53	
	10665 Apr 18 03:38	0°♋	
	10665 May 26 22:47	0°♌	
	10665 Jul 04 10:53	0°♍	
	10665 Aug 12 18:46	0°♎	
	10665 Sep 22 16:33	0°♏	
evening set	10665 Oct 10 22:14	12°♏56'06	
	10665 Nov 04 13:37	0°♐	
conjunction	10665 Dec 03 00:22	19°♐10'02	0°41'47
minimum elong	10665 Dec 03 01:46	19°♐12'22	0°42'18
	10665 Dec 19 10:20	0°♑	
max. Earth dist.	10665 Dec 23 09:57	2°♑36'28	2.61900 AU
morning rise	10666 Jan 19 21:07	20°♑21'57	
	10666 Feb 04 00:02	0°♒	
desc. node	10666 Feb 23 21:05	12°♒31'48	
	10666 Mar 23 23:46	0°♓	
	10666 May 12 13:25	0°♈	
	10666 Jul 04 07:29	0°♉	
	10666 Sep 10 12:29	0°♊	
retrograde	10666 Oct 08 07:27	4°♊12'00	
	10666 Nov 03 12:05	30°℞♉	
opposition	10666 Nov 10 21:01	27°♉38'13	-5°05'40
greatest brilliancy	10666 Nov 12 13:43	27°♉03'58	-2.3m
min. Earth dist.	10666 Nov 19 14:10	24°♉43'45	0.46315 AU
direct	10666 Dec 17 12:33	19°♉36'24	
	10667 Jan 27 20:21	0°♊	
asc. node	10667 Feb 17 15:04	10°♊43'41	
	10667 Mar 20 05:25	0°♋	
	10667 May 01 10:12	0°♌	
	10667 Jun 10 22:39	0°♍	
	10667 Jul 21 21:13	0°♎	
	10667 Sep 02 05:06	0°♏	
	10667 Oct 16 06:44	0°♐	
evening set	10667 Nov 25 10:51	26°♐25'30	
	10667 Nov 30 23:12	0°♑	
conjunction	10668 Jan 11 02:05	26°♑22'28	0°00'18
minimum elong	10668 Jan 11 02:04	26°♑22'27	0°00'49
behind sun begin	10668 Jan 10 07:23	25°♑52'42	
behind sun end	10668 Jan 11 20:46	26°♑52'12	
desc. node	10668 Jan 11 15:20	26°♑43'32	
max. Earth dist.	10668 Jan 16 07:52	29°♑42'32	2.67541 AU
	10668 Jan 16 18:51	0°♒	
morning rise	10668 Feb 24 02:29	24°♒17'42	
	10668 Mar 04 02:48	0°♓	
	10668 Apr 20 11:32	0°♈	
	10668 Jun 06 16:52	0°♉	
	10668 Jul 24 00:27	0°♊	
	10668 Sep 10 10:33	0°♋	
	10668 Nov 03 23:14	0°♌	
retrograde	10668 Dec 24 07:05	13°♌40'15	
asc. node	10669 Jan 04 17:15	12°♌50'05	
opposition	10669 Jan 23 01:55	8°♌44'24	1°26'29
greatest brilliancy	10669 Jan 23 00:45	8°♌45'10	-3.1m
min. Earth dist.	10669 Jan 23 02:46	8°♌43'50	0.36468 AU
direct	10669 Feb 21 12:29	3°♌49'37	
	10669 May 05 09:18	0°♍	
	10669 Jun 23 07:06	0°♎	
	10669 Aug 08 20:45	0°♏	
	10669 Sep 24 14:34	0°♐	
	10669 Nov 10 23:14	0°♑	
desc. node	10669 Nov 28 13:45	11°♑05'01	
	10669 Dec 28 15:16	0°♒	
evening set	10669 Dec 31 23:34	2°♒06'29	
max. Earth dist.	10670 Feb 06 10:37	25°♒10'49	2.67668 AU
conjunction	10670 Feb 14 07:23	0°♓11'28	-0°38'51
minimum elong	10670 Feb 14 06:24	0°♓09'54	0°38'31
	10670 Feb 14 00:11	0°♓	
morning rise	10670 Mar 29 20:47	28°♓16'12	
	10670 Apr 01 12:24	0°♈	
	10670 May 16 19:03	0°♉	
	10670 Jun 29 17:02	0°♊	
	10670 Aug 11 08:00	0°♋	
	10670 Sep 22 00:01	0°♌	
	10670 Nov 02 15:32	0°♍	
asc. node	10670 Nov 22 16:59	14°♍01'39	
	10670 Dec 16 21:01	0°♎	
	10671 Feb 24 15:41	0°♏	
retrograde	10671 Mar 03 08:25	0°♏19'40	
	10671 Mar 09 23:51	30°℞♎	
min. Earth dist.	10671 Mar 30 14:50	25°♎11'29	0.45121 AU
greatest brilliancy	10671 Apr 06 09:33	22°♎51'50	-2.4m
opposition	10671 Apr 08 03:21	22°♎15'41	5°56'01
direct	10671 May 10 13:40	15°♎42'53	
	10671 Jul 03 13:11	0°♏	
	10671 Aug 30 15:45	0°♐	
desc. node	10671 Oct 16 17:08	27°♐18'20	
	10671 Oct 21 05:55	0°♑	
	10671 Dec 09 20:16	0°♒	
	10672 Jan 26 21:43	0°♓	
evening set	10672 Feb 05 15:13	6°♓12'07	
max. Earth dist.	10672 Mar 01 02:13	22°♓01'21	2.62317 AU
	10672 Mar 13 05:25	0°♈	

conjunction	10672 Mar 21 17:06	5°♈38'06	-1°04'54
minimum elong	10672 Mar 21 16:18	5°♈36'46	1°04'53
	10672 Apr 26 14:48	0°♉	
morning rise	10672 May 07 11:56	7°♉33'38	
	10672 Jun 08 02:18	0°♊	
	10672 Jul 18 21:30	0°♋	
	10672 Aug 27 11:08	0°♌	
	10672 Oct 05 11:47	0°♍	
asc. node	10672 Oct 09 11:13	3°♍03'04	
	10672 Nov 14 00:32	0°♎	
	10672 Dec 25 17:19	0°♏	
	10673 Feb 11 16:10	0°♐	
retrograde	10673 Apr 16 19:53	21°♐02'16	
min. Earth dist.	10673 May 20 03:54	13°♐37'40	0.58299 AU
opposition	10673 May 26 06:50	11°♐14'06	3°36'26
greatest brilliancy	10673 May 25 12:42	11°♐31'51	-1.7m
direct	10673 Jul 02 08:16	2°♐48'10	
desc. node	10673 Sep 02 22:33	19°♐55'06	
	10673 Sep 24 02:44	0°♑	
	10673 Nov 18 03:42	0°♒	
	10674 Jan 07 01:47	0°♓	
	10674 Feb 22 20:19	0°♈	
evening set	10674 Mar 15 04:10	13°♈37'03	
max. Earth dist.	10674 Mar 30 05:58	23°♈57'12	2.51905 AU
	10674 Apr 07 22:28	0°♉	
conjunction	10674 May 04 03:44	18°♉39'38	-1°02'49
minimum elong	10674 May 04 05:04	18°♉42'01	1°03'12
	10674 May 19 16:35	0°♊	
	10674 Jun 28 14:10	0°♋	
morning rise	10674 Jun 30 04:23	1°♋13'12	
	10674 Aug 06 06:29	0°♌	
asc. node	10674 Aug 27 04:04	16°♌24'06	
	10674 Sep 13 11:52	0°♍	
	10674 Oct 22 03:43	0°♎	
	10674 Dec 01 06:39	0°♏	
	10675 Jan 13 04:40	0°♐	
	10675 Mar 02 17:25	0°♑	
retrograde	10675 May 23 00:43	28°♑22'12	
min. Earth dist.	10675 Jun 30 05:09	19°♑22'31	0.66443 AU
opposition	10675 Jul 02 14:59	18°♑24'57	0°41'43
greatest brilliancy	10675 Jul 02 13:42	18°♑26'13	-1.4m
desc. node	10675 Jul 22 02:30	11°♑38'54	
direct	10675 Aug 11 14:50	8°♑57'58	
	10675 Oct 22 08:20	0°♒	
	10675 Dec 17 04:16	0°♓	
	10676 Feb 03 14:03	0°♈	
	10676 Mar 18 23:17	0°♉	
	10676 Apr 29 11:08	0°♊	
evening set	10676 May 01 14:37	1°♊35'54	
max. Earth dist.	10676 May 25 07:24	19°♊31'05	2.38562 AU
	10676 Jun 07 21:48	0°♋	
conjunction	10676 Jul 03 06:21	19°♋49'47	-0°07'48
minimum elong	10676 Jul 03 07:11	19°♋51'25	0°08'20
behind sun begin	10676 Jul 02 05:52	19°♋01'35	
behind sun end	10676 Jul 04 08:31	20°♋41'17	
asc. node	10676 Jul 14 00:15	28°♋18'34	
	10676 Jul 16 03:34	0°♌	
	10676 Aug 23 01:20	0°♍	
morning rise	10676 Sep 14 14:42	17°♍41'22	
	10676 Sep 30 12:21	0°♎	
	10676 Nov 09 09:01	0°♏	
	10676 Dec 21 10:33	0°♐	
	10677 Feb 04 15:51	0°♑	
	10677 Mar 27 04:19	0°♒	
desc. node	10677 Jun 08 02:07	29°♒38'53	
	10677 Jun 10 02:05	0°♓	
retrograde	10677 Jun 25 01:56	1°♓17'34	
	10677 Jul 09 08:26	30°♑℞	
opposition	10677 Aug 04 09:40	21°♒45'20	-1°56'04
greatest brilliancy	10677 Aug 04 10:59	21°♒44'02	-1.3m
min. Earth dist.	10677 Aug 05 18:50	21°♒12'37	0.68118 AU
direct	10677 Sep 14 20:54	11°♒47'26	
	10677 Nov 18 08:16	0°♓	
	10678 Jan 11 21:10	0°♈	
	10678 Feb 26 19:08	0°♉	
	10678 Apr 09 14:43	0°♊	
	10678 May 18 23:54	0°♋	
asc. node	10678 May 31 22:44	10°♋07'20	
	10678 Jun 26 02:50	0°♌	
evening set	10678 Jul 09 13:18	10°♌39'32	
	10678 Aug 03 00:07	0°♍	
	10678 Sep 10 13:58	0°♎	
conjunction	10678 Sep 18 15:08	6°♎08'05	1°01'33
minimum elong	10678 Sep 18 12:52	6°♎03'45	1°01'33
	10678 Oct 20 15:08	0°♏	
max. Earth dist.	10678 Nov 07 03:48	12°♏41'22	2.45462 AU
morning rise	10678 Nov 20 23:16	22°♏29'17	
	10678 Dec 01 17:23	0°♐	
	10679 Jan 15 06:15	0°♑	
	10679 Mar 03 16:11	0°♒	
	10679 Apr 24 11:50	0°♓	
desc. node	10679 Apr 25 20:58	0°♓44'41	
	10679 Jul 01 04:51	0°♈	
retrograde	10679 Jul 31 23:04	4°♈54'06	
	10679 Aug 29 03:11	30°♓℞	
opposition	10679 Sep 08 16:22	26°♓09'36	-4°09'29
greatest brilliancy	10679 Sep 09 09:10	25°♓53'26	-1.5m
min. Earth dist.	10679 Sep 13 20:55	24°♓09'46	0.63137 AU
direct	10679 Oct 20 00:45	16°♓10'06	
	10679 Dec 11 14:44	0°♈	
	10680 Feb 03 03:50	0°♉	
	10680 Mar 17 20:33	0°♊	
asc. node	10680 Apr 18 00:19	23°♊12'42	
	10680 Apr 26 20:57	0°♋	
	10680 Jun 04 07:38	0°♌	
	10680 Jul 12 12:49	0°♍	
	10680 Aug 20 13:14	0°♎	
evening set	10680 Sep 18 18:28	21°♎44'30	
	10680 Sep 30 03:03	0°♏	
	10680 Nov 11 16:36	0°♐	
conjunction	10680 Nov 15 05:31	2°♐25'42	0°55'11
minimum elong	10680 Nov 15 07:06	2°♐28'25	0°55'39
max. Earth dist.	10680 Dec 12 19:15	21°♐02'33	2.58189 AU
	10680 Dec 26 08:25	0°♑	
morning rise	10681 Jan 04 22:06	6°♑15'37	
	10681 Feb 10 23:05	0°♒	
desc. node	10681 Mar 12 13:25	18°♒26'52	
	10681 Mar 31 11:50	0°♓	
	10681 May 21 18:04	0°♈	
	10681 Jul 19 16:13	0°♉	
retrograde	10681 Sep 15 06:54	14°♉54'23	
opposition	10681 Oct 20 16:12	7°♉32'58	-5°23'47
greatest brilliancy	10681 Oct 22 07:19	6°♉57'52	-2.0m
min. Earth dist.	10681 Oct 29 01:07	4°♉33'26	0.51876 AU
	10681 Nov 14 02:20	30°♈℞	
direct	10681 Nov 28 11:02	28°♈33'07	
	10681 Dec 13 04:49	0°♉	
	10682 Feb 17 03:58	0°♊	
asc. node	10682 Mar 06 05:18	11°♊10'04	
	10682 Apr 01 22:11	0°♋	

	10682 May 12 00:39	0°♌	
	10682 Jun 20 09:40	0°♍	
	10682 Jul 30 11:40	0°♎	
	10682 Sep 10 02:29	0°♏	
	10682 Oct 23 14:16	0°♐	
evening set	10682 Nov 09 03:03	11°♐04'42	
	10682 Dec 07 21:04	0°♑	
conjunction	10682 Dec 27 15:34	12°♑48'12	0°16'46
minimum elong	10682 Dec 27 16:09	12°♑49'08	0°17'19
max. Earth dist.	10683 Jan 07 10:57	19°♑44'36	2.65992 AU
	10683 Jan 23 12:32	0°♒	
desc. node	10683 Jan 28 06:28	3°♒01'03	
morning rise	10683 Feb 10 17:14	11°♒32'35	
	10683 Mar 12 00:04	0°♓	
	10683 Apr 28 23:38	0°♈	
	10683 Jun 16 14:28	0°♉	
	10683 Aug 05 22:49	0°♊	
	10683 Oct 02 11:13	0°♋	
retrograde	10683 Nov 22 07:45	12°♋58'50	
opposition	10683 Dec 22 16:24	7°♋46'53	-2°14'19
greatest brilliancy	10683 Dec 23 06:59	7°♋36'33	-2.9m
min. Earth dist.	10683 Dec 28 06:50	6°♋11'55	0.38589 AU
asc. node	10684 Jan 22 09:17	1°♋55'44	
direct	10684 Jan 23 15:44	1°♋55'03	
	10684 Apr 06 09:43	0°♌	
	10684 May 22 08:05	0°♍	
	10684 Jul 05 01:45	0°♎	
	10684 Aug 18 06:10	0°♏	
	10684 Oct 02 15:02	0°♐	
	10684 Nov 18 04:09	0°♑	
desc. node	10684 Dec 15 02:36	17°♑07'51	
evening set	10684 Dec 17 21:19	18°♑53'36	
	10685 Jan 04 10:05	0°♒	
max. Earth dist.	10685 Jan 28 18:41	15°♒25'45	2.68279 AU
conjunction	10685 Jan 31 17:34	17°♒18'07	-0°24'42
minimum elong	10685 Jan 31 16:52	17°♒17'01	0°24'16
	10685 Feb 20 17:06	0°♓	
morning rise	10685 Mar 16 02:10	14°♓56'22	
	10685 Apr 08 11:10	0°♈	
	10685 May 24 07:45	0°♉	
	10685 Jul 08 04:30	0°♊	
	10685 Aug 21 03:50	0°♋	
	10685 Oct 03 18:26	0°♌	
	10685 Nov 17 21:36	0°♍	
asc. node	10685 Dec 09 08:58	12°♍54'40	
	10686 Jan 16 03:11	0°♎	
retrograde	10686 Feb 08 05:24	3°♎40'26	
	10686 Mar 03 14:16	30°℞♍	
min. Earth dist.	10686 Mar 06 03:41	29°♍15'11	0.40059 AU
greatest brilliancy	10686 Mar 11 21:45	27°♍29'12	-2.8m
opposition	10686 Mar 13 09:39	27°♍01'25	5°37'59
direct	10686 Apr 12 19:19	21°♍26'31	
	10686 May 22 00:44	0°♎	
	10686 Jul 21 00:01	0°♏	
	10686 Sep 09 22:51	0°♐	
	10686 Oct 29 07:35	0°♑	
desc. node	10686 Nov 02 04:28	2°♑22'17	
	10686 Dec 16 23:11	0°♒	
evening set	10687 Jan 22 16:28	23°♒01'09	
	10687 Feb 02 16:19	0°♓	
max. Earth dist.	10687 Feb 20 15:24	11°♓30'25	2.65071 AU
conjunction	10687 Mar 08 01:50	21°♓30'51	-0°57'07
minimum elong	10687 Mar 08 00:46	21°♓29'07	0°56'59
	10687 Mar 21 00:39	0°♈	
morning rise	10687 Apr 22 00:33	21°♈21'50	
	10687 May 04 16:53	0°♉	
	10687 Jun 16 15:34	0°♊	
	10687 Jul 28 00:03	0°♋	
	10687 Sep 06 03:34	0°♌	
	10687 Oct 15 18:47	0°♍	
asc. node	10687 Oct 27 06:06	8°♍38'17	
	10687 Nov 25 03:26	0°♎	
	10688 Jan 07 18:33	0°♏	
	10688 Mar 07 12:01	0°♐	
retrograde	10688 Mar 31 20:16	3°♐52'48	
	10688 Apr 24 01:19	30°℞♏	
min. Earth dist.	10688 May 01 20:38	27°♏17'13	0.53559 AU
greatest brilliancy	10688 May 08 02:19	24°♏55'07	-2.0m
opposition	10688 May 09 06:55	24°♏27'51	4°42'57
direct	10688 Jun 13 18:25	16°♏38'05	
	10688 Aug 06 00:15	0°♐	
desc. node	10688 Sep 19 09:31	21°♐29'50	
	10688 Oct 05 02:24	0°♑	
	10688 Nov 26 05:10	0°♒	
	10689 Jan 14 05:13	0°♓	
evening set	10689 Feb 27 11:36	28°♓30'06	
	10689 Mar 01 18:00	0°♈	
max. Earth dist.	10689 Mar 17 18:14	10°♈41'38	2.56556 AU
	10689 Apr 14 22:10	0°♉	
conjunction	10689 Apr 15 20:13	0°♉38'25	-1°08'25
minimum elong	10689 Apr 15 20:28	0°♉38'51	1°08'39
	10689 May 26 22:24	0°♊	
morning rise	10689 Jun 06 14:40	7°♊51'09	
	10689 Jul 06 03:26	0°♋	
	10689 Aug 14 02:44	0°♌	
asc. node	10689 Sep 13 00:09	23°♌19'06	
	10689 Sep 21 13:43	0°♍	
	10689 Oct 30 10:21	0°♎	
	10689 Dec 09 20:45	0°♏	
	10690 Jan 22 16:23	0°♐	
	10690 Mar 16 08:08	0°♑	
retrograde	10690 May 09 12:41	14°♑56'50	
min. Earth dist.	10690 Jun 14 23:44	6°♑29'51	0.63992 AU
opposition	10690 Jun 18 21:00	4°♑57'07	1°47'54
greatest brilliancy	10690 Jun 18 15:17	5°♑02'48	-1.5m
	10690 Jul 02 08:14	30°℞♐	
direct	10690 Jul 27 21:31	25°♐49'40	
desc. node	10690 Aug 07 13:58	26°♐29'26	
	10690 Aug 25 01:51	0°♑	
	10690 Nov 02 18:19	0°♒	
	10690 Dec 25 08:30	0°♓	
	10691 Feb 10 22:31	0°♈	
	10691 Mar 27 03:30	0°♉	
evening set	10691 Apr 11 22:44	11°♉12'20	
max. Earth dist.	10691 Apr 26 05:41	21°♉33'05	2.43738 AU
	10691 May 07 17:09	0°♊	
conjunction	10691 Jun 07 11:42	23°♊12'36	-0°36'40
minimum elong	10691 Jun 07 14:08	23°♊17'17	0°37'11
	10691 Jun 16 07:32	0°♋	
	10691 Jul 24 16:52	0°♌	
asc. node	10691 Jul 31 17:20	5°♌32'17	
morning rise	10691 Aug 14 12:14	16°♌25'58	
	10691 Aug 31 16:56	0°♍	
	10691 Oct 09 04:41	0°♎	
	10691 Nov 18 01:42	0°♏	
	10691 Dec 30 06:45	0°♐	
	10692 Feb 14 04:35	0°♑	
	10692 Apr 07 21:40	0°♒	
retrograde	10692 Jun 11 18:58	18°♒51'45	

desc. node	10692 Jun 24 15:44	17°♒47'36	
opposition	10692 Jul 22 08:29	9°♒07'01	-0°57'34
greatest brilliancy	10692 Jul 22 07:54	9°♒07'36	-1.3m
min. Earth dist.	10692 Jul 22 05:51	9°♒09'37	0.68239 AU
	10692 Aug 21 21:34	30°℞♉	
direct	10692 Sep 01 09:43	29°♉18'12	
	10692 Sep 12 09:32	0°♒	
	10692 Nov 30 10:44	0°♓	
	10693 Jan 20 11:56	0°♈	
	10693 Mar 06 14:26	0°♉	
	10693 Apr 17 05:18	0°♊	
	10693 May 26 14:01	0°♋	
evening set	10693 Jun 10 00:28	11°♋16'59	
asc. node	10693 Jun 17 14:18	17°♋14'52	
	10693 Jul 03 17:12	0°♌	
	10693 Aug 10 13:53	0°♍	
conjunction	10693 Aug 20 04:19	7°♍33'24	0°42'36
minimum elong	10693 Aug 20 00:33	7°♍26'01	0°42'17
	10693 Sep 18 01:40	0°♎	
max. Earth dist.	10693 Oct 12 08:25	18°♎24'24	2.39868 AU
	10693 Oct 27 23:52	0°♏	
morning rise	10693 Oct 28 23:57	0°♏44'11	
	10693 Dec 09 00:02	0°♐	
	10694 Jan 22 15:29	0°♑	
	10694 Mar 11 18:42	0°♒	
	10694 May 05 15:35	0°♓	
desc. node	10694 May 12 13:35	3°♓16'48	
retrograde	10694 Jul 16 22:56	21°♓38'18	
opposition	10694 Aug 25 11:07	12°♓32'01	-3°21'36
greatest brilliancy	10694 Aug 25 20:14	12°♓23'08	-1.4m
min. Earth dist.	10694 Aug 29 03:53	11°♓05'32	0.65880 AU
direct	10694 Oct 06 01:31	2°♓28'40	
	10694 Dec 25 23:23	0°♈	
	10695 Feb 12 19:37	0°♉	
	10695 Mar 27 11:15	0°♊	
asc. node	10695 May 05 15:55	29°♊38'46	
	10695 May 06 02:53	0°♋	
	10695 Jun 13 08:49	0°♌	
	10695 Jul 21 09:27	0°♍	
evening set	10695 Aug 25 01:24	26°♍51'44	
	10695 Aug 29 04:11	0°♎	
	10695 Oct 08 11:30	0°♏	
conjunction	10695 Oct 27 01:48	13°♏22'25	1°04'19
minimum elong	10695 Oct 27 02:48	13°♏24'12	1°04'41
	10695 Nov 19 19:06	0°♐	
max. Earth dist.	10695 Dec 01 22:58	8°♐20'42	2.53723 AU
morning rise	10695 Dec 20 15:44	20°♐56'59	
	10696 Jan 03 07:47	0°♑	
	10696 Feb 19 02:26	0°♒	
desc. node	10696 Mar 29 06:18	23°♒57'23	
	10696 Apr 08 11:12	0°♓	
	10696 Jun 01 13:02	0°♈	
retrograde	10696 Aug 26 12:38	28°♈14'27	
opposition	10696 Oct 02 10:49	20°♈14'47	-5°07'48
greatest brilliancy	10696 Oct 03 17:59	19°♈45'45	-1.7m
min. Earth dist.	10696 Oct 09 18:28	17°♈31'22	0.56932 AU
direct	10696 Nov 11 14:58	10°♈40'04	
	10697 Jan 12 07:28	0°♉	
	10697 Mar 01 18:54	0°♊	
asc. node	10697 Mar 22 19:08	14°♊52'14	
	10697 Apr 12 05:53	0°♋	
	10697 May 21 09:27	0°♌	
	10697 Jun 29 03:25	0°♍	
	10697 Aug 07 16:13	0°♎	
	10697 Sep 17 18:36	0°♏	
evening set	10697 Oct 22 02:50	24°♏02'54	
	10697 Oct 30 19:32	0°♐	
conjunction	10697 Dec 12 07:08	28°♐22'42	0°32'56
minimum elong	10697 Dec 12 08:17	28°♐24'34	0°33'28
	10697 Dec 14 18:33	0°♑	
max. Earth dist.	10697 Dec 29 01:51	9°♑18'59	2.63586 AU
morning rise	10698 Jan 27 23:14	28°♑30'15	
	10698 Jan 30 07:41	0°♒	
desc. node	10698 Feb 13 22:09	9°♒14'41	
	10698 Mar 19 01:44	0°♓	
	10698 May 06 22:39	0°♈	
	10698 Jun 26 18:03	0°♉	
	10698 Aug 22 17:44	0°♊	
retrograde	10698 Oct 23 02:43	17°♊08'53	
opposition	10698 Nov 24 13:32	11°♊05'23	-4°29'00
greatest brilliancy	10698 Nov 26 01:34	10°♊36'43	-2.5m
min. Earth dist.	10698 Dec 02 22:13	8°♊27'10	0.43231 AU
direct	10698 Dec 29 15:34	3°♊47'00	
asc. node	10699 Feb 08 00:02	13°♊51'27	
	10699 Mar 09 22:35	0°♋	
	10699 Apr 23 18:44	0°♌	
	10699 Jun 04 09:41	0°♍	
	10699 Jul 16 00:41	0°♎	
	10699 Aug 27 20:30	0°♏	
	10699 Oct 11 07:02	0°♐	
	10699 Nov 26 05:30	0°♑	
evening set	10699 Dec 04 05:17	5°♑08'32	
desc. node	10700 Jan 01 17:07	23°♑21'15	
	10700 Jan 12 03:55	0°♒	
conjunction	10700 Jan 19 01:22	4°♒22'38	-0°09'12
minimum elong	10700 Jan 19 01:06	4°♒22'12	0°08'44
behind sun begin	10700 Jan 18 09:18	3°♒57'09	
behind sun end	10700 Jan 19 16:53	4°♒47'15	
max. Earth dist.	10700 Jan 21 08:20	5°♒49'49	2.68049 AU
	10700 Feb 28 10:57	0°♓	
morning rise	10700 Mar 03 16:39	2°♓03'19	
	10700 Apr 16 13:35	0°♈	
	10700 Jun 02 05:29	0°♉	
	10700 Jul 18 11:40	0°♊	
	10700 Sep 02 18:10	0°♋	
	10700 Oct 20 17:58	0°♌	
	10700 Dec 24 01:11	0°♍	
asc. node	10700 Dec 27 03:12	0°♍41'40	
retrograde	10701 Jan 12 06:54	2°♍25'02	
	10701 Jan 31 13:57	30°℞♌	
min. Earth dist.	10701 Feb 08 11:35	28°♌00'03	0.36827 AU
opposition	10701 Feb 11 16:03	27°♌08'20	3°29'06
greatest brilliancy	10701 Feb 11 03:54	27°♌16'35	-3.0m
direct	10701 Mar 12 20:25	22°♌15'04	
	10701 Apr 18 03:02	0°♍	
	10701 Jun 15 06:48	0°♎	
	10701 Aug 03 04:18	0°♏	
	10701 Sep 20 00:05	0°♐	
	10701 Nov 06 22:37	0°♑	
desc. node	10701 Nov 19 16:12	7°♑57'17	
	10701 Dec 24 21:51	0°♒	
evening set	10702 Jan 09 22:07	10°♒03'43	
	10702 Feb 10 09:25	0°♓	
max. Earth dist.	10702 Feb 12 13:05	1°♓22'27	2.66979 AU
conjunction	10702 Feb 23 03:18	8°♓09'16	-0°46'18
minimum elong	10702 Feb 23 02:14	8°♓07'33	0°46'03
	10702 Mar 28 20:04	0°♈	
morning rise	10702 Apr 08 00:19	6°♈41'30	
	10702 May 12 21:16	0°♉	

	10702 Jun 25 10:18	0°♊	
	10702 Aug 06 13:00	0°♋	
	10702 Sep 16 13:23	0°♌	
	10702 Oct 27 06:01	0°♍	
asc. node	10702 Nov 14 00:32	12°♍53'58	
	10702 Dec 08 09:07	0°♎	
	10703 Jan 26 19:11	0°♏	
retrograde	10703 Mar 15 18:50	13°♏46'20	
min. Earth dist.	10703 Apr 13 07:20	8°♏06'56	0.48168 AU
greatest brilliancy	10703 Apr 20 01:45	5°♏41'09	-2.2m
opposition	10703 Apr 21 16:13	5°♏06'20	5°38'15
	10703 May 08 05:20	30°℞♎	
direct	10703 May 25 07:02	28°♎03'17	
	10703 Jun 12 05:48	0°♏	
	10703 Aug 23 21:28	0°♐	
desc. node	10703 Oct 07 20:12	24°♐59'52	
	10703 Oct 16 11:23	0°♑	
	10703 Dec 05 19:33	0°♒	
	10704 Jan 23 04:27	0°♓	
evening set	10704 Feb 14 18:26	14°♓26'04	
max. Earth dist.	10704 Mar 07 21:51	28°♓53'30	2.60480 AU
	10704 Mar 09 14:07	0°♈	
conjunction	10704 Mar 31 11:00	14°♈37'34	-1°07'39
minimum elong	10704 Mar 31 10:29	14°♈36'43	1°07'44
	10704 Apr 22 21:54	0°♉	
morning rise	10704 May 18 15:45	18°♉05'22	
	10704 Jun 04 05:31	0°♊	
	10704 Jul 14 19:29	0°♋	
	10704 Aug 23 03:27	0°♌	
asc. node	10704 Sep 30 18:08	29°♌51'53	
	10704 Sep 30 22:21	0°♍	
	10704 Nov 09 03:22	0°♎	
	10704 Dec 20 04:36	0°♏	
	10705 Feb 03 21:18	0°♐	
	10705 Apr 18 05:09	0°♑	
retrograde	10705 Apr 26 08:34	0°♑26'27	
	10705 May 04 06:16	30°℞♐	
min. Earth dist.	10705 May 30 20:59	22°♐37'34	0.60579 AU
opposition	10705 Jun 05 04:53	20°♐31'23	2°56'36
greatest brilliancy	10705 Jun 04 15:57	20°♐44'09	-1.6m
direct	10705 Jul 13 00:27	11°♐48'55	
desc. node	10705 Aug 25 02:12	20°♐50'30	
	10705 Sep 16 07:06	0°♑	
	10705 Nov 13 07:06	0°♒	
	10706 Jan 03 00:35	0°♓	
	10706 Feb 19 01:52	0°♈	
evening set	10706 Mar 25 17:11	23°♈22'55	
	10706 Apr 04 05:29	0°♉	
max. Earth dist.	10706 Apr 08 17:19	3°♉09'17	2.49115 AU
	10706 May 15 22:37	0°♊	
conjunction	10706 May 16 15:01	0°♊30'16	-0°56'02
minimum elong	10706 May 16 16:57	0°♊33'50	0°56'29
	10706 Jun 24 18:00	0°♋	
morning rise	10706 Jul 16 07:10	16°♋40'35	
	10706 Aug 02 07:47	0°♌	
asc. node	10706 Aug 18 12:21	12°♌44'01	
	10706 Sep 09 10:54	0°♍	
	10706 Oct 18 00:21	0°♎	
	10706 Nov 26 23:26	0°♏	
	10707 Jan 08 12:10	0°♐	
	10707 Feb 24 16:10	0°♑	
	10707 Apr 27 14:21	0°♒	
retrograde	10707 May 31 15:11	6°♒16'24	
	10707 Jul 01 22:28	30°℞♑	
min. Earth dist.	10707 Jul 09 16:06	27°♑00'29	0.67359 AU
opposition	10707 Jul 11 06:20	26°♑22'25	0°04'10
greatest brilliancy	10707 Jul 11 06:20	26°♑22'26	-1.4m
desc. node	10707 Jul 13 05:29	25°♑35'35	
direct	10707 Aug 20 16:34	16°♑46'34	
	10707 Oct 13 20:06	0°♒	
	10707 Dec 12 06:03	0°♓	
	10708 Jan 30 10:52	0°♈	
	10708 Mar 15 01:59	0°♉	
	10708 Apr 25 15:17	0°♊	
evening set	10708 May 15 19:03	15°♊10'41	
	10708 Jun 04 01:37	0°♋	
max. Earth dist.	10708 Jul 04 23:56	24°♋14'39	2.36576 AU
asc. node	10708 Jul 05 07:09	24°♋28'56	
	10708 Jul 12 06:36	0°♌	
conjunction	10708 Jul 21 01:37	6°♌57'53	0°11'27
minimum elong	10708 Jul 21 00:24	6°♌55'28	0°10'57
behind sun begin	10708 Jul 20 01:41	6°♌10'27	
behind sun end	10708 Jul 21 23:08	7°♌40'30	
	10708 Aug 19 03:55	0°♍	
	10708 Sep 26 14:43	0°♎	
morning rise	10708 Oct 02 17:55	4°♎42'12	
	10708 Nov 05 10:53	0°♏	
	10708 Dec 17 10:23	0°♐	
	10709 Jan 31 07:45	0°♑	
	10709 Mar 21 15:35	0°♒	
	10709 May 22 06:15	0°♓	
desc. node	10709 May 30 04:13	2°♓44'29	
retrograde	10709 Jul 03 20:49	8°♓55'30	
	10709 Aug 11 17:28	30°℞♒	
opposition	10709 Aug 12 22:34	29°♒31'27	-2°28'49
greatest brilliancy	10709 Aug 13 02:03	29°♒28'02	-1.3m
min. Earth dist.	10709 Aug 15 03:28	28°♒39'26	0.67604 AU
direct	10709 Sep 23 12:13	19°♒30'12	
	10709 Nov 08 22:13	0°♓	
	10710 Jan 06 17:24	0°♈	
	10710 Feb 22 11:08	0°♉	
	10710 Apr 05 13:02	0°♊	
	10710 May 15 00:11	0°♋	
asc. node	10710 May 23 06:13	6°♋25'57	
	10710 Jun 22 03:47	0°♌	
evening set	10710 Jul 27 21:15	28°♌16'36	
greatest brilliancy	10710 Jul 29 18:24	29°♌45'28	1.1m
	10710 Jul 30 01:48	0°♍	
	10710 Sep 06 16:43	0°♎	
conjunction	10710 Oct 04 15:54	21°♎03'53	1°05'52
minimum elong	10710 Oct 04 15:07	21°♎02'27	1°06'01
	10710 Oct 16 19:08	0°♏	
max. Earth dist.	10710 Nov 18 11:51	23°♏25'09	2.48573 AU
	10710 Nov 27 22:17	0°♐	
morning rise	10710 Dec 03 11:02	3°♐49'21	
	10711 Jan 11 09:34	0°♑	
	10711 Feb 27 11:36	0°♒	
desc. node	10711 Apr 16 22:46	28°♒46'10	
	10711 Apr 19 03:07	0°♓	
	10711 Jun 17 19:54	0°♈	
retrograde	10711 Aug 11 02:12	13°♈19'38	
opposition	10711 Sep 18 05:49	4°♈49'11	-4°33'54
greatest brilliancy	10711 Sep 19 03:36	4°♈28'25	-1.5m
min. Earth dist.	10711 Sep 24 05:12	2°♈32'27	0.61210 AU
	10711 Oct 01 05:59	30°℞♓	
direct	10711 Oct 29 06:37	24°♓55'12	
	10711 Nov 28 01:11	0°♈	
	10712 Jan 28 04:34	0°♉	
	10712 Mar 13 00:33	0°♊	
asc. node	10712 Apr 09 10:35	20°♊08'34	

	10712 Apr 22 10:21	0°♋	
	10712 May 31 01:25	0°♌	
	10712 Jul 08 09:47	0°♍	
	10712 Aug 16 13:10	0°♎	
	10712 Sep 26 05:56	0°♏	
evening set	10712 Oct 02 17:48	4°♏39'33	
	10712 Nov 07 22:18	0°♐	
conjunction	10712 Nov 26 14:45	12°♐41'52	0°47'45
minimum elong	10712 Nov 26 16:18	12°♐44'28	0°48'16
max. Earth dist.	10712 Dec 20 01:55	28°♐18'52	2.60349 AU
	10712 Dec 22 15:27	0°♑	
morning rise	10713 Jan 14 14:31	14°♑56'15	
	10713 Feb 07 04:23	0°♒	
desc. node	10713 Mar 03 14:04	15°♒19'34	
	10713 Mar 27 08:24	0°♓	
	10713 May 16 12:21	0°♈	
	10713 Jul 10 04:31	0°♉	
retrograde	10713 Sep 28 19:01	25°♉55'31	
opposition	10713 Nov 02 05:31	18°♉59'02	-5°18'35
greatest brilliancy	10713 Nov 03 22:34	18°♉23'19	-2.2m
min. Earth dist.	10713 Nov 10 22:02	15°♉58'59	0.48837 AU
direct	10713 Dec 09 21:53	10°♉28'10	
	10714 Feb 07 17:25	0°♊	
asc. node	10714 Feb 25 15:24	10°♊38'10	
	10714 Mar 26 13:36	0°♋	
	10714 May 06 15:46	0°♌	
	10714 Jun 15 13:47	0°♍	
	10714 Jul 26 01:16	0°♎	
	10714 Sep 05 23:34	0°♏	
	10714 Oct 19 17:28	0°♐	
evening set	10714 Nov 19 14:39	20°♐29'27	
	10714 Dec 04 04:18	0°♑	
conjunction	10715 Jan 06 00:06	21°♑08'40	0°07'07
minimum elong	10715 Jan 06 00:21	21°♑09'04	0°07'39
behind sun begin	10715 Jan 05 07:25	20°♑42'00	
behind sun end	10715 Jan 06 17:18	21°♑36'08	
max. Earth dist.	10715 Jan 13 17:10	26°♑04'02	2.66958 AU
desc. node	10715 Jan 19 06:46	29°♑36'54	
	10715 Jan 19 21:17	0°♒	
morning rise	10715 Feb 19 10:02	19°♒21'36	
	10715 Mar 08 06:24	0°♓	
	10715 Apr 24 21:03	0°♈	
	10715 Jun 11 15:39	0°♉	
	10715 Jul 30 01:47	0°♊	
	10715 Sep 19 01:50	0°♋	
	10715 Dec 06 03:02	0°♌	
retrograde	10715 Dec 11 16:32	0°♌12'01	
	10715 Dec 17 06:10	30°℞♋	
opposition	10716 Jan 10 12:20	25°♋16'23	-0°15'02
greatest brilliancy	10716 Jan 10 13:29	25°♋15'37	-3.1m
min. Earth dist.	10716 Jan 13 05:51	24°♋32'15	0.36994 AU
asc. node	10716 Jan 13 17:42	24°♋24'20	
direct	10716 Feb 09 20:43	20°♋03'36	
	10716 Mar 21 09:10	0°♌	
	10716 May 14 01:22	0°♍	
	10716 Jun 29 00:26	0°♎	
	10716 Aug 13 07:41	0°♏	
	10716 Sep 28 08:38	0°♐	
	10716 Nov 14 07:15	0°♑	
desc. node	10716 Dec 06 04:56	13°♑51'50	
evening set	10716 Dec 27 00:20	27°♑00'10	
	10716 Dec 31 18:14	0°♒	
max. Earth dist.	10717 Feb 03 19:25	21°♒32'51	2.68043 AU
conjunction	10717 Feb 09 12:22	25°♒10'22	-0°33'13
minimum elong	10717 Feb 09 11:29	25°♒08'58	0°32'51
	10717 Feb 17 02:22	0°♓	
morning rise	10717 Mar 24 21:55	22°♓59'15	
	10717 Apr 04 17:23	0°♈	
	10717 May 20 06:35	0°♉	
	10717 Jul 03 14:36	0°♊	
	10717 Aug 15 18:59	0°♋	
	10717 Sep 27 04:26	0°♌	
	10717 Nov 08 22:32	0°♍	
asc. node	10717 Nov 30 17:55	14°♍34'49	
	10717 Dec 26 00:57	0°♎	
retrograde	10718 Feb 22 19:59	19°♎46'49	
min. Earth dist.	10718 Mar 21 05:55	15°♎01'25	0.42727 AU
greatest brilliancy	10718 Mar 27 18:51	12°♎52'55	-2.6m
opposition	10718 Mar 29 12:23	12°♎18'38	5°59'01
direct	10718 Apr 29 23:52	6°♎11'54	
	10718 Jul 12 06:26	0°♏	
	10718 Sep 04 10:31	0°♐	
desc. node	10718 Oct 24 07:56	29°♐38'02	
	10718 Oct 24 22:30	0°♑	
	10718 Dec 13 02:23	0°♒	
	10719 Jan 30 00:36	0°♓	
evening set	10719 Jan 31 15:14	1°♓01'27	
max. Earth dist.	10719 Feb 27 02:08	18°♓01'32	2.63646 AU
conjunction	10719 Mar 17 08:15	29°♓58'21	-1°02'06
minimum elong	10719 Mar 17 07:19	29°♓56'48	1°02'04
	10719 Mar 17 09:15	0°♈	
	10719 Apr 30 22:35	0°♉	
morning rise	10719 May 02 04:49	0°♉52'02	
	10719 Jun 12 15:49	0°♊	
	10719 Jul 23 17:32	0°♋	
	10719 Sep 01 13:22	0°♌	
	10719 Oct 10 19:56	0°♍	
asc. node	10719 Oct 18 13:24	5°♍53'19	
	10719 Nov 19 15:16	0°♎	
	10719 Dec 31 21:32	0°♏	
	10720 Feb 20 08:08	0°♐	
retrograde	10720 Apr 11 03:53	14°♐24'17	
min. Earth dist.	10720 May 13 11:40	7°♐20'22	0.56266 AU
greatest brilliancy	10720 May 19 06:14	5°♐06'14	-1.8m
opposition	10720 May 20 04:50	4°♐44'18	4°05'27
	10720 Jun 02 16:51	30°℞♏	
direct	10720 Jun 25 13:35	26°♏33'33	
	10720 Jul 20 12:11	0°♐	
desc. node	10720 Sep 10 13:04	20°♐33'27	
	10720 Sep 29 03:13	0°♑	
	10720 Nov 21 19:25	0°♒	
	10721 Jan 10 08:32	0°♓	
	10721 Feb 26 01:36	0°♈	
evening set	10721 Mar 09 06:32	7°♈27'14	
max. Earth dist.	10721 Mar 25 16:39	18°♈34'07	2.54051 AU
	10721 Apr 11 05:49	0°♉	
conjunction	10721 Apr 26 23:11	11°♉04'48	-1°06'07
minimum elong	10721 Apr 27 00:02	11°♉06'18	1°06'26
	10721 May 23 03:37	0°♊	
morning rise	10721 Jun 20 10:35	21°♊03'43	
	10721 Jul 02 05:16	0°♋	
	10721 Aug 10 00:55	0°♌	
asc. node	10721 Sep 04 05:42	19°♌43'25	
	10721 Sep 17 08:40	0°♍	
	10721 Oct 26 01:54	0°♎	
	10721 Dec 05 06:14	0°♏	
	10722 Jan 17 09:54	0°♐	
	10722 Mar 08 01:28	0°♑	
retrograde	10722 May 18 07:50	23°♑13'23	

min. Earth dist.	10722 Jun 24 17:49	14°♉27'54	0.65471 AU
opposition	10722 Jun 27 19:45	13°♉14'16	1°08'55
greatest brilliancy	10722 Jun 27 16:55	13°♉17'06	-1.4m
desc. node	10722 Jul 29 17:42	4°♉17'45	
direct	10722 Aug 06 09:35	3°♉55'35	
	10722 Oct 27 13:12	0°♒	
	10722 Dec 20 21:56	0°♓	
	10723 Feb 07 00:24	0°♈	
	10723 Mar 23 09:17	0°♉	
evening set	10723 Apr 24 06:02	22°♉50'17	
	10723 May 03 23:09	0°♊	
max. Earth dist.	10723 May 11 17:21	5°♊46'57	2.40773 AU
	10723 Jun 12 12:17	0°♋	
conjunction	10723 Jun 23 01:10	8°♋11'00	-0°21'16
minimum elong	10723 Jun 23 03:03	8°♋14'40	0°21'48
	10723 Jul 20 19:48	0°♌	
asc. node	10723 Jul 23 01:07	1°♌45'20	
	10723 Aug 27 18:18	0°♍	
morning rise	10723 Sep 02 15:08	4°♍37'19	
	10723 Oct 05 04:51	0°♎	
	10723 Nov 14 00:14	0°♏	
	10723 Dec 26 01:20	0°♐	
	10724 Feb 09 10:17	0°♑	
	10724 Mar 31 20:43	0°♒	
desc. node	10724 Jun 15 18:32	26°♒22'14	
retrograde	10724 Jun 20 09:29	26°♒29'59	
opposition	10724 Jul 30 19:53	16°♒51'44	-1°32'18
greatest brilliancy	10724 Jul 30 20:02	16°♒51'35	-1.3m
min. Earth dist.	10724 Jul 31 12:50	16°♒34'58	0.68306 AU
direct	10724 Sep 10 02:59	6°♒57'27	
	10724 Nov 23 22:26	0°♓	
	10725 Jan 15 21:14	0°♈	
	10725 Mar 02 12:11	0°♉	
	10725 Apr 13 07:02	0°♊	
	10725 May 22 16:56	0°♋	
asc. node	10725 Jun 08 23:22	13°♋30'31	
evening set	10725 Jun 27 06:45	27°♋58'13	
	10725 Jun 29 20:13	0°♌	
	10725 Aug 06 16:56	0°♍	
conjunction	10725 Sep 07 03:27	24°♍33'40	0°55'13
minimum elong	10725 Sep 07 00:07	24°♍27'14	0°55'05
	10725 Sep 14 05:03	0°♎	
	10725 Oct 24 03:29	0°♏	
max. Earth dist.	10725 Oct 29 15:42	4°♏01'47	2.42921 AU
morning rise	10725 Nov 12 11:07	14°♏00'23	
	10725 Dec 05 03:10	0°♐	
	10726 Jan 18 15:03	0°♑	
	10726 Mar 07 05:32	0°♒	
	10726 Apr 28 23:38	0°♓	
desc. node	10726 May 03 14:08	2°♓23'02	
retrograde	10726 Jul 26 09:43	29°♓38'25	
opposition	10726 Sep 03 11:41	20°♓43'32	-3°50'10
greatest brilliancy	10726 Sep 04 00:54	20°♓30'44	-1.4m
min. Earth dist.	10726 Sep 08 00:00	18°♓58'34	0.64494 AU
direct	10726 Oct 14 23:04	10°♓41'23	
	10726 Dec 18 12:38	0°♈	
	10727 Feb 07 18:10	0°♉	
	10727 Mar 23 00:23	0°♊	
asc. node	10727 Apr 27 00:30	26°♊14'43	
	10727 May 01 21:36	0°♋	
	10727 Jun 09 06:12	0°♌	
	10727 Jul 17 08:56	0°♍	
	10727 Aug 25 05:58	0°♎	
evening set	10727 Sep 10 00:31	11°♎52'27	
	10727 Oct 04 15:32	0°♏	
conjunction	10727 Nov 08 20:11	25°♏00'35	0°59'44
minimum elong	10727 Nov 08 21:39	25°♏03'08	1°00'10
	10727 Nov 16 01:01	0°♐	
max. Earth dist.	10727 Dec 10 01:13	16°♐21'00	2.56282 AU
	10727 Dec 30 13:52	0°♑	
morning rise	10727 Dec 31 02:49	0°♑21'19	
	10728 Feb 15 04:46	0°♒	
desc. node	10728 Mar 20 06:31	21°♒06'26	
	10728 Apr 03 23:55	0°♓	
	10728 May 26 04:40	0°♈	
	10728 Jul 29 07:04	0°♉	
retrograde	10728 Sep 07 08:40	7°♉55'56	
opposition	10728 Oct 13 11:29	0°♉16'07	-5°19'35
	10728 Oct 14 05:06	30°℞♈	
greatest brilliancy	10728 Oct 14 23:25	29°♈43'12	-1.9m
min. Earth dist.	10728 Oct 21 10:01	27°♈22'14	0.54233 AU
direct	10728 Nov 21 22:31	20°♈58'12	
	10728 Dec 31 08:32	0°♉	
	10729 Feb 23 09:31	0°♊	
asc. node	10729 Mar 14 05:13	12°♊49'16	
	10729 Apr 06 23:53	0°♋	
	10729 May 16 14:54	0°♌	
	10729 Jun 24 15:57	0°♍	
	10729 Aug 03 10:45	0°♎	
	10729 Sep 13 18:24	0°♏	
	10729 Oct 26 23:58	0°♐	
evening set	10729 Nov 02 14:28	4°♐28'06	
	10729 Dec 11 01:58	0°♑	
conjunction	10729 Dec 22 04:45	7°♑14'10	0°23'34
minimum elong	10729 Dec 22 05:35	7°♑15'31	0°24'08
max. Earth dist.	10730 Jan 04 12:40	15°♑50'53	2.65021 AU
	10730 Jan 26 15:31	0°♒	
desc. node	10730 Feb 04 23:08	5°♒55'12	
morning rise	10730 Feb 05 21:29	6°♒30'37	
	10730 Mar 15 05:00	0°♓	
	10730 May 02 12:39	0°♈	
	10730 Jun 20 22:59	0°♉	
	10730 Aug 12 09:25	0°♊	
	10730 Oct 24 10:42	0°♋	
retrograde	10730 Nov 09 12:46	1°♋31'35	
	10730 Nov 25 01:56	30°℞♊	
opposition	10730 Dec 10 17:41	25°♊58'13	-3°24'38
greatest brilliancy	10730 Dec 11 19:29	25°♊38'59	-2.7m
min. Earth dist.	10730 Dec 17 22:54	23°♊49'37	0.40462 AU
direct	10731 Jan 13 03:50	19°♊27'41	
asc. node	10731 Jan 30 10:05	21°♊30'48	
	10731 Feb 23 09:46	0°♋	
	10731 Apr 15 20:01	0°♌	
	10731 May 29 07:06	0°♍	
	10731 Jul 10 21:26	0°♎	
	10731 Aug 23 08:26	0°♏	
	10731 Oct 07 05:30	0°♐	
	10731 Nov 22 10:48	0°♑	
evening set	10731 Dec 13 16:20	13°♑34'09	
desc. node	10731 Dec 23 18:43	19°♑59'48	
	10732 Jan 08 12:53	0°♒	
conjunction	10732 Jan 27 21:48	12°♒16'56	-0°18'25
minimum elong	10732 Jan 27 21:15	12°♒16'05	0°17'58
max. Earth dist.	10732 Jan 27 07:38	11°♒54'30	2.68280 AU
	10732 Feb 24 19:43	0°♓	
morning rise	10732 Mar 11 07:53	9°♓52'37	
	10732 Apr 11 17:31	0°♈	
	10732 May 27 22:29	0°♉	
	10732 Jul 12 08:47	0°♊	
	10732 Aug 26 05:03	0°♋	

	10732 Oct 10	05:45	0°♌		
	10732 Nov 27	19:12	0°♍		
asc. node	10732 Dec 17	10:13	10°♍00'44		
retrograde	10733 Jan 28	15:17	20°♍54'25		
min. Earth dist.	10733 Feb 23	16:55	16°♍36'45	0.38291 AU	
greatest brilliancy	10733 Feb 28	09:17	15°♍15'26	-2.9m	
opposition	10733 Mar 01	12:12	14°♍55'48	4°58'40	
direct	10733 Mar 31	05:24	9°♍43'49		
	10733 Jun 03	15:37	0°♎		
	10733 Jul 26	20:23	0°♏		
	10733 Sep 14	04:23	0°♐		
	10733 Nov 01	20:13	0°♑		
desc. node	10733 Nov 09	19:43	4°♑56'05		
	10733 Dec 20	04:12	0°♒		
evening set	10734 Jan 17	18:37	17°♒56'35		
	10734 Feb 05	19:07	0°♓		
max. Earth dist.	10734 Feb 17	17:43	7°♓38'01	2.66032 AU	
conjunction	10734 Mar 03	00:42	16°♓11'44	-0°52'57	
minimum elong	10734 Mar 02	23:37	16°♓09'58	0°52'47	
	10734 Mar 24	05:03	0°♈		
morning rise	10734 Apr 16	09:58	15°♈22'35		
	10734 May 08	02:04	0°♉		
	10734 Jun 20	07:32	0°♊		
	10734 Aug 01	00:18	0°♋		
	10734 Sep 10	12:23	0°♌		
	10734 Oct 20	12:59	0°♍		
asc. node	10734 Nov 04	07:43	10°♍59'25		
	10734 Nov 30	11:06	0°♎		
	10735 Jan 14	13:56	0°♏		
retrograde	10735 Mar 26	08:43	26°♏04'37		
min. Earth dist.	10735 Apr 25	06:45	19°♏52'55	0.51212 AU	
greatest brilliancy	10735 May 01	19:00	17°♏27'29	-2.1m	
opposition	10735 May 03	04:15	16°♏56'20	5°09'13	
direct	10735 Jun 06	20:15	9°♏26'00		
	10735 Aug 14	16:39	0°♐		
desc. node	10735 Sep 28	00:22	23°♐04'17		
	10735 Oct 10	09:21	0°♑		
	10735 Nov 30	16:42	0°♒		
	10736 Jan 18	10:40	0°♓		
evening set	10736 Feb 23	01:25	22°♓50'18		
	10736 Mar 04	23:01	0°♈		
max. Earth dist.	10736 Mar 14	01:59	6°♈03'29	2.58410 AU	
conjunction	10736 Apr 09	13:42	24°♈00'11	-1°08'48	
minimum elong	10736 Apr 09	13:36	24°♈00'01	1°08'59	
	10736 Apr 18	06:00	0°♉		
morning rise	10736 May 29	13:25	29°♉21'45		
	10736 May 30	10:27	0°♊		
	10736 Jul 09	20:15	0°♋		
	10736 Aug 17	23:39	0°♌		
asc. node	10736 Sep 21	02:27	26°♌31'24		
	10736 Sep 25	13:46	0°♍		
	10736 Nov 03	13:00	0°♎		
	10736 Dec 14	03:08	0°♏		
	10737 Jan 27	11:15	0°♐		
	10737 Mar 24	10:22	0°♑		
retrograde	10737 May 04	13:40	9°♑22'59		
min. Earth dist.	10737 Jun 09	04:17	1°♑12'29	0.62581 AU	
	10737 Jun 12	05:23	30°℞♐		
opposition	10737 Jun 13	17:30	29°♐24'08	2°16'27	
greatest brilliancy	10737 Jun 13	08:58	29°♐32'36	-1.5m	
direct	10737 Jul 22	05:33	20°♐27'15		
desc. node	10737 Aug 15	05:14	23°♐33'40		
	10737 Sep 04	21:54	0°♑		
	10737 Nov 07	02:05	0°♒		
	10737 Dec 28	20:59	0°♓		
	10738 Feb 14	06:37	0°♈		
	10738 Mar 30	12:27	0°♉		
evening set	10738 Apr 04	18:48	3°♉41'55		
max. Earth dist.	10738 Apr 18	11:56	13°♉27'27	2.46171 AU	
	10738 May 11	04:44	0°♊		
conjunction	10738 May 29	01:31	13°♊20'16	-0°46'12	
minimum elong	10738 May 29	03:53	13°♊24'44	0°46'43	
	10738 Jun 19	22:15	0°♋		
	10738 Jul 28	09:57	0°♌		
morning rise	10738 Aug 01	19:18	3°♌27'25		
asc. node	10738 Aug 08	19:14	8°♌58'20		
	10738 Sep 04	11:13	0°♍		
	10738 Oct 12	23:05	0°♎		
	10738 Nov 21	19:34	0°♏		
	10739 Jan 03	01:28	0°♐		
	10739 Feb 18	07:09	0°♑		
	10739 Apr 15	01:34	0°♒		
retrograde	10739 Jun 08	04:43	14°♒01'58		
desc. node	10739 Jul 03	07:45	9°♒55'40		
opposition	10739 Jul 18	19:04	4°♒12'32	-0°32'28	
min. Earth dist.	10739 Jul 18	00:04	4°♒31'26	0.67970 AU	
greatest brilliancy	10739 Jul 18	18:26	4°♒13'09	-1.3m	
	10739 Jul 29	19:57	30°℞♑		
direct	10739 Aug 28	13:59	24°♑29'09		
	10739 Sep 30	11:23	0°♒		
	10739 Dec 05	22:07	0°♓		
	10740 Jan 25	04:45	0°♈		
	10740 Mar 10	03:56	0°♉		
	10740 Apr 20	19:17	0°♊		
evening set	10740 May 30	01:37	29°♊52'17		
	10740 May 30	05:35	0°♋		
asc. node	10740 Jun 25	14:57	20°♋40'40		
	10740 Jul 07	09:49	0°♌		
conjunction	10740 Aug 07	12:20	24°♌39'38	0°30'07	
minimum elong	10740 Aug 07	09:13	24°♌33'28	0°29'42	
	10740 Aug 14	06:28	0°♍		
	10740 Sep 21	17:08	0°♎		
max. Earth dist.	10740 Sep 22	15:29	0°♎42'57	2.37635 AU	
morning rise	10740 Oct 18	15:58	20°♎26'39		
	10740 Oct 31	13:13	0°♏		
	10740 Dec 12	11:23	0°♐		
	10741 Jan 26	03:06	0°♑		
	10741 Mar 15	14:18	0°♒		
	10741 May 11	07:32	0°♓		
desc. node	10741 May 20	06:14	3°♓53'11		
retrograde	10741 Jul 11	20:37	16°♓40'09		
opposition	10741 Aug 20	14:56	7°♓25'28	-3°00'14	
greatest brilliancy	10741 Aug 20	21:18	7°♓19'14	-1.3m	
min. Earth dist.	10741 Aug 23	15:11	6°♓14'41	0.66778 AU	
	10741 Sep 11	00:38	30°℞♒		
direct	10741 Oct 01	05:17	27°♒22'30		
	10741 Oct 22	20:10	0°♓		
	10741 Dec 30	23:37	0°♈		
	10742 Feb 16	22:07	0°♉		
	10742 Mar 31	08:51	0°♊		
	10742 May 09	23:25	0°♋		
asc. node	10742 May 13	16:06	2°♋52'05		
	10742 Jun 17	04:31	0°♌		
	10742 Jul 25	03:30	0°♍		
evening set	10742 Aug 13	15:27	15°♍14'10		
	10742 Sep 01	19:38	0°♎		
	10742 Oct 11	23:25	0°♏		
conjunction	10742 Oct 18	08:04	4°♏37'33	1°06'09	
minimum elong	10742 Oct 18	08:29	4°♏38'19	1°06'26	

	10742 Nov 23 03:27	0°♐	
max. Earth dist.	10742 Nov 27 07:18	2°♐52'35	2.51492 AU
morning rise	10742 Dec 14 01:41	14°♐19'30	
	10743 Jan 06 13:53	0°♑	
	10743 Feb 22 09:49	0°♒	
desc. node	10743 Apr 06 23:31	26°♒23'20	
	10743 Apr 13 04:16	0°♓	
	10743 Jun 07 22:35	0°♈	
retrograde	10743 Aug 20 18:45	22°♈09'58	
opposition	10743 Sep 27 06:36	13°♈55'40	-4°54'56
greatest brilliancy	10743 Sep 28 09:36	13°♈30'12	-1.6m
min. Earth dist.	10743 Oct 03 23:49	11°♈23'41	0.58950 AU
direct	10743 Nov 06 20:45	4°♈10'49	
	10744 Jan 20 01:57	0°♉	
	10744 Mar 06 17:35	0°♊	
asc. node	10744 Mar 30 19:18	17°♊20'08	
	10744 Apr 16 17:16	0°♋	
	10744 May 25 15:09	0°♌	
	10744 Jul 03 04:06	0°♍	
	10744 Aug 11 11:41	0°♎	
	10744 Sep 21 08:22	0°♏	
evening set	10744 Oct 14 14:44	16°♏28'38	
	10744 Nov 03 03:57	0°♐	
conjunction	10744 Dec 06 07:11	22°♐18'35	0°39'22
minimum elong	10744 Dec 06 08:32	22°♐20'49	0°39'55
	10744 Dec 17 22:59	0°♑	
max. Earth dist.	10744 Dec 25 22:47	5°♑13'47	2.62235 AU
morning rise	10745 Jan 22 21:39	23°♑16'37	
	10745 Feb 02 10:53	0°♒	
desc. node	10745 Feb 21 14:48	12°♒06'20	
	10745 Mar 22 08:01	0°♓	
	10745 May 10 16:17	0°♈	
	10745 Jul 01 19:11	0°♉	
	10745 Sep 03 02:23	0°♊	
retrograde	10745 Oct 12 11:44	7°♊56'12	
opposition	10745 Nov 14 21:12	1°♊28'10	-4°57'54
greatest brilliancy	10745 Nov 16 13:12	0°♊54'54	-2.4m
	10745 Nov 19 07:07	30°℞♉	
min. Earth dist.	10745 Nov 23 14:58	28°♉35'18	0.45693 AU
direct	10745 Dec 21 05:40	23°♉34'27	
	10746 Jan 21 22:41	0°♊	
asc. node	10746 Feb 15 23:53	11°♊45'14	
	10746 Mar 17 21:03	0°♋	
	10746 Apr 29 15:13	0°♌	
	10746 Jun 09 08:23	0°♍	
	10746 Jul 20 08:47	0°♎	
	10746 Aug 31 17:10	0°♏	
	10746 Oct 14 18:42	0°♐	
evening set	10746 Nov 28 15:34	29°♐28'49	
	10746 Nov 29 10:50	0°♑	
desc. node	10747 Jan 09 08:58	26°♑15'21	
conjunction	10747 Jan 14 02:28	29°♑15'58	-0°02'33
minimum elong	10747 Jan 14 02:22	29°♑15'48	0°02'02
behind sun begin	10747 Jan 13 07:45	28°♑46'13	
behind sun end	10747 Jan 14 20:59	29°♑45'24	
	10747 Jan 15 06:10	0°♒	
max. Earth dist.	10747 Jan 18 19:21	2°♒15'24	2.67673 AU
morning rise	10747 Feb 27 00:24	27°♒07'00	
	10747 Mar 03 13:42	0°♓	
	10747 Apr 19 21:25	0°♈	
	10747 Jun 06 00:21	0°♉	
	10747 Jul 23 02:25	0°♊	
	10747 Sep 08 23:05	0°♋	
	10747 Oct 31 05:04	0°♌	
retrograde	10747 Dec 30 08:49	18°♌33'13	
asc. node	10748 Jan 04 03:32	18°♌24'10	
opposition	10748 Jan 29 02:38	13°♌35'40	1°57'00
greatest brilliancy	10748 Jan 29 00:00	13°♌37'24	-3.1m
min. Earth dist.	10748 Jan 28 13:11	13°♌44'32	0.36431 AU
direct	10748 Feb 27 09:24	8°♌43'15	
	10748 May 01 17:30	0°♍	
	10748 Jun 21 00:21	0°♎	
	10748 Aug 06 23:34	0°♏	
	10748 Sep 22 21:24	0°♐	
	10748 Nov 09 08:06	0°♑	
desc. node	10748 Nov 26 07:28	10°♑40'17	
	10748 Dec 27 01:34	0°♒	
evening set	10749 Jan 04 00:25	5°♒00'25	
max. Earth dist.	10749 Feb 08 20:10	27°♒40'41	2.67560 AU
	10749 Feb 12 11:40	0°♓	
conjunction	10749 Feb 17 07:06	3°♓04'07	-0°41'09
minimum elong	10749 Feb 17 06:05	3°♓02'29	0°40'50
	10749 Mar 31 00:41	0°♈	
morning rise	10749 Apr 01 21:03	1°♈12'27	
	10749 May 15 07:41	0°♉	
	10749 Jun 28 05:20	0°♊	
	10749 Aug 09 19:10	0°♋	
	10749 Sep 20 08:39	0°♌	
	10749 Oct 31 18:25	0°♍	
asc. node	10749 Nov 21 02:05	14°♍21'56	
	10749 Dec 14 06:46	0°♎	
	10750 Feb 09 20:47	0°♏	
retrograde	10750 Mar 07 03:34	4°♏20'42	
	10750 Mar 31 21:12	30°℞♎	
min. Earth dist.	10750 Apr 03 14:36	29°♎06'24	0.45690 AU
greatest brilliancy	10750 Apr 10 09:29	26°♎45'27	-2.4m
opposition	10750 Apr 12 02:37	26°♎09'29	5°54'08
direct	10750 May 14 19:37	19°♎30'40	
	10750 Jun 28 19:49	0°♏	
	10750 Aug 28 06:53	0°♐	
desc. node	10750 Oct 14 10:44	27°♐06'06	
	10750 Oct 19 08:26	0°♑	
	10750 Dec 08 03:44	0°♒	
	10751 Jan 25 08:21	0°♓	
evening set	10751 Feb 08 15:53	9°♓07'16	
max. Earth dist.	10751 Mar 04 17:03	24°♓42'02	2.61999 AU
	10751 Mar 12 18:30	0°♈	
conjunction	10751 Mar 25 20:03	8°♈40'33	-1°05'52
minimum elong	10751 Mar 25 19:20	8°♈39'21	1°05'55
	10751 Apr 26 05:45	0°♉	
morning rise	10751 May 11 20:27	10°♉51'42	
	10751 Jun 07 18:26	0°♊	
	10751 Jul 18 14:09	0°♋	
	10751 Aug 27 03:34	0°♌	
	10751 Oct 05 03:03	0°♍	
asc. node	10751 Oct 08 20:01	2°♍51'02	
	10751 Nov 13 12:52	0°♎	
	10751 Dec 24 22:36	0°♏	
	10752 Feb 09 21:41	0°♐	
retrograde	10752 Apr 19 23:36	24°♐15'08	
min. Earth dist.	10752 May 23 13:26	16°♐45'24	0.58757 AU
opposition	10752 May 29 12:33	14°♐25'04	3°25'54
greatest brilliancy	10752 May 28 19:38	14°♐41'39	-1.7m
direct	10752 Jul 05 16:59	5°♐55'57	
desc. node	10752 Aug 31 16:38	20°♐33'20	
	10752 Sep 21 06:10	0°♑	
	10752 Nov 16 04:04	0°♒	
	10753 Jan 05 09:36	0°♓	
	10753 Feb 21 08:31	0°♈	
evening set	10753 Mar 18 10:40	16°♈48'27	

max. Earth dist.	10753 Apr 02 10:11	27°♈06'37	2.51398 AU
	10753 Apr 06 13:48	0°♉	
conjunction	10753 May 07 18:18	22°♉12'41	-1°01'23
minimum elong	10753 May 07 19:47	22°♉15'22	1°01'47
	10753 May 18 10:08	0°♊	
	10753 Jun 27 09:07	0°♋	
morning rise	10753 Jul 04 10:47	5°♋25'25	
	10753 Aug 05 01:55	0°♌	
asc. node	10753 Aug 25 13:46	16°♌05'16	
	10753 Sep 12 06:48	0°♍	
	10753 Oct 20 21:05	0°♎	
	10753 Nov 29 20:53	0°♏	
	10754 Jan 11 12:49	0°♐	
	10754 Feb 28 09:24	0°♑	
	10754 May 11 12:17	0°♒	
retrograde	10754 May 25 23:51	1°♒16'12	
	10754 Jun 08 18:00	30°℞♑	
min. Earth dist.	10754 Jul 03 07:37	22°♑13'34	0.66639 AU
opposition	10754 Jul 05 14:11	21°♑19'12	0°30'37
greatest brilliancy	10754 Jul 05 13:19	21°♑20'03	-1.4m
desc. node	10754 Jul 19 20:59	16°♑03'14	
direct	10754 Aug 14 16:04	11°♑50'38	
	10754 Oct 19 04:52	0°♒	
	10754 Dec 15 04:57	0°♓	
	10755 Feb 01 23:31	0°♈	
	10755 Mar 18 13:29	0°♉	
	10755 Apr 29 04:18	0°♊	
evening set	10755 May 06 13:49	5°♊30'52	
max. Earth dist.	10755 Jun 01 11:47	25°♊12'25	2.38095 AU
	10755 Jun 07 16:48	0°♋	
conjunction	10755 Jul 08 22:34	24°♋26'40	-0°03'15
minimum elong	10755 Jul 08 22:58	24°♋27'27	0°03'47
behind sun begin	10755 Jul 07 18:10	23°♋30'43	
behind sun end	10755 Jul 10 03:45	25°♋24'13	
asc. node	10755 Jul 13 08:20	27°♋55'25	
	10755 Jul 15 23:23	0°♌	
	10755 Aug 22 21:02	0°♍	
morning rise	10755 Sep 20 11:08	22°♍23'57	
	10755 Sep 30 07:01	0°♎	
	10755 Nov 09 01:37	0°♏	
	10755 Dec 20 23:49	0°♐	
	10756 Feb 03 23:23	0°♑	
	10756 Mar 24 21:45	0°♒	
	10756 May 31 10:04	0°♓	
desc. node	10756 Jun 05 20:43	1°♓22'53	
retrograde	10756 Jun 28 01:51	4°♓06'15	
	10756 Jul 23 11:54	30°℞♒	
opposition	10756 Aug 07 07:34	24°♒35'21	-2°05'53
greatest brilliancy	10756 Aug 07 09:16	24°♒33'41	-1.3m
min. Earth dist.	10756 Aug 08 20:00	23°♒59'24	0.68042 AU
direct	10756 Sep 17 18:41	14°♒36'48	
	10756 Nov 15 01:35	0°♓	
	10757 Jan 09 23:40	0°♈	
	10757 Feb 25 06:52	0°♉	
	10757 Apr 08 06:46	0°♊	
	10757 May 17 18:08	0°♋	
asc. node	10757 May 30 06:27	9°♋45'55	
	10757 Jun 24 21:54	0°♌	
evening set	10757 Jul 14 11:10	15°♌30'28	
	10757 Aug 01 19:00	0°♍	
	10757 Sep 09 07:55	0°♎	
conjunction	10757 Sep 23 04:22	10°♎32'31	1°03'04
minimum elong	10757 Sep 23 02:26	10°♎28'53	1°03'06
	10757 Oct 19 07:30	0°♏	

max. Earth dist.	10757 Nov 10 23:42	16°♏23'40	2.46094 AU
morning rise	10757 Nov 24 18:06	26°♏07'12	
	10757 Nov 30 07:33	0°♐	
	10758 Jan 13 17:23	0°♑	
	10758 Mar 01 22:15	0°♒	
	10758 Apr 22 05:35	0°♓	
desc. node	10758 Apr 23 15:46	0°♓46'53	
	10758 Jun 25 04:58	0°♈	
retrograde	10758 Aug 04 04:23	7°♈50'15	
	10758 Sep 09 12:00	30°℞♓	
opposition	10758 Sep 11 18:20	29°♓08'06	-4°16'22
greatest brilliancy	10758 Sep 12 12:08	28°♓50'58	-1.5m
min. Earth dist.	10758 Sep 17 01:40	27°♓05'34	0.62810 AU
direct	10758 Oct 23 00:28	19°♓09'21	
	10758 Dec 07 17:11	0°♈	
	10759 Feb 01 05:52	0°♉	
	10759 Mar 17 09:00	0°♊	
asc. node	10759 Apr 17 10:26	23°♊01'41	
	10759 Apr 26 13:30	0°♋	
	10759 Jun 04 01:40	0°♌	
	10759 Jul 12 06:48	0°♍	
	10759 Aug 20 06:14	0°♎	
evening set	10759 Sep 23 21:47	25°♎44'33	
	10759 Sep 29 18:30	0°♏	
	10759 Nov 11 06:18	0°♐	
conjunction	10759 Nov 19 19:41	5°♐52'01	0°53'16
minimum elong	10759 Nov 19 21:16	5°♐54'44	0°53'45
max. Earth dist.	10759 Dec 16 15:58	23°♐56'02	2.58644 AU
	10759 Dec 25 20:15	0°♑	
morning rise	10760 Jan 09 03:02	9°♑20'24	
	10760 Feb 10 08:39	0°♒	
desc. node	10760 Mar 10 07:15	18°♒05'44	
	10760 Mar 29 17:33	0°♓	
	10760 May 19 14:28	0°♈	
	10760 Jul 15 22:04	0°♉	
retrograde	10760 Sep 19 00:46	18°♉18'01	
opposition	10760 Oct 24 06:44	11°♉00'44	-5°22'49
greatest brilliancy	10760 Oct 25 22:13	10°♉25'29	-2.0m
min. Earth dist.	10760 Nov 01 17:29	8°♉00'47	0.51321 AU
direct	10760 Dec 01 20:11	2°♉05'59	
	10761 Feb 14 16:16	0°♊	
asc. node	10761 Mar 04 15:38	11°♊30'29	
	10761 Mar 31 04:50	0°♋	
	10761 May 10 13:08	0°♌	
	10761 Jun 19 00:09	0°♍	
	10761 Jul 29 02:22	0°♎	
	10761 Sep 08 16:27	0°♏	
	10761 Oct 22 03:07	0°♐	
evening set	10761 Nov 12 12:01	14°♐18'28	
	10761 Dec 06 08:48	0°♑	
conjunction	10761 Dec 30 18:41	15°♑48'06	0°13'56
minimum elong	10761 Dec 30 19:11	15°♑48'53	0°14'31
behind sun begin	10761 Dec 30 11:16	15°♑36'10	
behind sun end	10761 Dec 31 03:06	16°♑01'36	
max. Earth dist.	10762 Jan 09 21:43	22°♑17'50	2.66201 AU
	10762 Jan 21 23:18	0°♒	
desc. node	10762 Jan 25 23:15	2°♒32'37	
morning rise	10762 Feb 13 16:22	14°♒24'37	
	10762 Mar 10 09:44	0°♓	
	10762 Apr 27 07:10	0°♈	
	10762 Jun 14 16:59	0°♉	
	10762 Aug 03 12:25	0°♊	
	10762 Sep 27 17:30	0°♋	
retrograde	10762 Nov 27 04:39	17°♋30'47	
opposition	10762 Dec 27 11:21	12°♋22'54	-1°48'09

greatest brilliancy	10762 Dec 27 22:28	12°♋15'05	-2.9m
min. Earth dist.	10763 Jan 01 12:58	10°♋57'42	0.38206 AU
asc. node	10763 Jan 20 18:28	7°♋02'00	
direct	10763 Jan 28 02:41	6°♋39'25	
	10763 Apr 04 00:43	0°♌	
	10763 May 21 03:54	0°♍	
	10763 Jul 04 06:23	0°♎	
	10763 Aug 17 14:21	0°♏	
	10763 Oct 02 00:39	0°♐	
	10763 Nov 17 14:23	0°♑	
desc. node	10763 Dec 13 20:37	16°♑41'46	
evening set	10763 Dec 21 22:40	21°♑49'15	
	10764 Jan 03 20:46	0°♒	
max. Earth dist.	10764 Feb 01 07:59	18°♒01'40	2.68254 AU
conjunction	10764 Feb 04 17:07	20°♒10'18	-0°27'17
minimum elong	10764 Feb 04 16:21	20°♒09'05	0°26'52
	10764 Feb 20 04:14	0°♓	
morning rise	10764 Mar 19 01:16	17°♓49'20	
	10764 Apr 06 22:35	0°♈	
	10764 May 22 18:52	0°♉	
	10764 Jul 06 14:16	0°♊	
	10764 Aug 19 10:35	0°♋	
	10764 Oct 01 18:43	0°♌	
	10764 Nov 15 04:40	0°♍	
asc. node	10764 Dec 07 19:01	14°♍03'25	
	10765 Jan 07 18:47	0°♎	
retrograde	10765 Feb 12 10:52	8°♎13'19	
min. Earth dist.	10765 Mar 10 08:07	3°♎45'58	0.40527 AU
greatest brilliancy	10765 Mar 16 07:46	1°♎54'33	-2.7m
opposition	10765 Mar 17 21:33	1°♎25'01	5°47'02
	10765 Mar 22 13:23	30°℞♍	
direct	10765 Apr 17 10:54	25°♍44'26	
	10765 May 14 06:06	0°♎	
	10765 Jul 18 08:19	0°♏	
	10765 Sep 07 23:03	0°♐	
	10765 Oct 27 13:34	0°♑	
desc. node	10765 Oct 30 23:03	2°♑04'25	
	10765 Dec 15 08:12	0°♒	
evening set	10766 Jan 25 16:26	25°♒54'04	
	10766 Feb 01 03:25	0°♓	
max. Earth dist.	10766 Feb 23 01:54	14°♓03'05	2.64814 AU
conjunction	10766 Mar 11 03:10	24°♓28'33	-0°58'43
minimum elong	10766 Mar 11 02:08	24°♓26'50	0°58'36
	10766 Mar 19 13:25	0°♈	
morning rise	10766 Apr 25 05:42	24°♈30'41	
	10766 May 03 06:56	0°♉	
	10766 Jun 15 06:27	0°♊	
	10766 Jul 26 15:17	0°♋	
	10766 Sep 04 18:25	0°♌	
	10766 Oct 14 07:58	0°♍	
asc. node	10766 Oct 25 15:40	8°♍33'06	
	10766 Nov 23 12:09	0°♎	
	10767 Jan 05 14:07	0°♏	
	10767 Mar 01 20:41	0°♐	
retrograde	10767 Apr 05 03:21	7°♐17'16	
min. Earth dist.	10767 May 06 10:11	0°♐35'40	0.54075 AU
	10767 May 07 23:59	30°℞♏	
opposition	10767 May 13 16:45	27°♏48'51	4°34'00
greatest brilliancy	10767 May 12 13:26	28°♏15'02	-1.9m
direct	10767 Jun 18 07:32	19°♏55'06	
	10767 Aug 02 12:31	0°♐	
desc. node	10767 Sep 18 03:52	21°♐38'51	
	10767 Oct 03 20:07	0°♑	
	10767 Nov 25 09:54	0°♒	
	10768 Jan 13 15:06	0°♓	
	10768 Feb 29 07:12	0°♈	
evening set	10768 Mar 02 14:44	1°♈31'46	
max. Earth dist.	10768 Mar 20 14:37	13°♈33'59	2.56073 AU
	10768 Apr 13 13:42	0°♉	
conjunction	10768 Apr 19 05:29	3°♉56'54	-1°08'04
minimum elong	10768 Apr 19 05:54	3°♉57'38	1°08'21
	10768 May 25 15:26	0°♊	
morning rise	10768 Jun 10 12:00	11°♊40'44	
	10768 Jul 04 21:19	0°♋	
	10768 Aug 12 20:49	0°♌	
asc. node	10768 Sep 11 07:55	22°♌59'35	
	10768 Sep 20 07:15	0°♍	
	10768 Oct 29 02:16	0°♎	
	10768 Dec 08 09:07	0°♏	
	10769 Jan 20 20:24	0°♐	
	10769 Mar 13 03:17	0°♑	
retrograde	10769 May 12 12:01	17°♑53'25	
min. Earth dist.	10769 Jun 18 03:04	9°♑23'17	0.64297 AU
opposition	10769 Jun 21 21:14	7°♑53'34	1°36'49
greatest brilliancy	10769 Jun 21 16:17	7°♑58'30	-1.5m
	10769 Jul 16 23:06	30°℞♐	
direct	10769 Jul 31 00:32	28°♐44'11	
desc. node	10769 Aug 05 09:07	28°♐54'23	
	10769 Aug 14 23:55	0°♑	
	10769 Oct 31 08:43	0°♒	
	10769 Dec 23 13:54	0°♓	
	10770 Feb 09 10:23	0°♈	
	10770 Mar 25 19:18	0°♉	
evening set	10770 Apr 15 11:14	14°♉39'50	
max. Earth dist.	10770 Apr 30 04:57	25°♉22'44	2.43160 AU
	10770 May 06 11:26	0°♊	
conjunction	10770 Jun 11 15:08	27°♊18'12	-0°33'12
minimum elong	10770 Jun 11 17:31	27°♊22'46	0°33'45
	10770 Jun 15 03:10	0°♋	
	10770 Jul 23 12:50	0°♌	
asc. node	10770 Jul 30 02:21	5°♌10'43	
morning rise	10770 Aug 19 11:46	21°♌17'57	
	10770 Aug 30 12:19	0°♍	
	10770 Oct 07 22:37	0°♎	
	10770 Nov 16 17:13	0°♏	
	10770 Dec 28 18:18	0°♐	
	10771 Feb 12 08:27	0°♑	
	10771 Apr 05 23:59	0°♒	
retrograde	10771 Jun 15 17:55	21°♒41'10	
desc. node	10771 Jun 23 11:01	21°♒18'15	
opposition	10771 Jul 26 06:34	11°♒57'23	-1°07'58
greatest brilliancy	10771 Jul 26 06:00	11°♒57'57	-1.3m
min. Earth dist.	10771 Jul 26 07:01	11°♒56'56	0.68292 AU
direct	10771 Sep 05 09:01	2°♒07'39	
	10771 Nov 28 24:00	0°♓	
	10772 Jan 19 18:38	0°♈	
	10772 Mar 05 04:07	0°♉	
	10772 Apr 15 22:49	0°♊	
	10772 May 25 09:40	0°♋	
evening set	10772 Jun 14 11:12	15°♋41'33	
asc. node	10772 Jun 16 00:07	16°♋54'15	
	10772 Jul 02 13:43	0°♌	
	10772 Aug 09 10:07	0°♍	
conjunction	10772 Aug 24 23:07	12°♍13'25	0°46'00
minimum elong	10772 Aug 24 19:18	12°♍05'57	0°45'45
	10772 Sep 16 20:40	0°♎	
max. Earth dist.	10772 Oct 17 06:48	23°♎01'54	2.40413 AU
	10772 Oct 26 16:47	0°♏	
morning rise	10772 Nov 02 04:57	4°♏46'06	

	10772 Dec 07 14:05	0°♐	
	10773 Jan 21 01:30	0°♑	
	10773 Mar 09 21:25	0°♒	
	10773 May 02 19:49	0°♓	
desc. node	10773 May 10 07:08	3°♓39'54	
retrograde	10773 Jul 20 01:41	24°♓31'12	
opposition	10773 Aug 28 11:15	15°♓26'52	-3°29'57
greatest brilliancy	10773 Aug 28 21:13	15°♓17'09	-1.4m
min. Earth dist.	10773 Sep 01 07:04	13°♓57'22	0.65647 AU
direct	10773 Oct 09 00:27	5°♓23'42	
	10773 Dec 23 10:21	0°♈	
	10774 Feb 11 02:49	0°♉	
	10774 Mar 26 01:30	0°♊	
asc. node	10774 May 04 00:55	29°♊22'21	
	10774 May 04 20:24	0°♋	
	10774 Jun 12 03:43	0°♌	
	10774 Jul 20 04:25	0°♍	
	10774 Aug 27 22:18	0°♎	
evening set	10774 Aug 29 12:10	1°♎12'03	
	10774 Oct 07 04:02	0°♏	
conjunction	10774 Oct 30 21:31	17°♏02'41	1°03'20
minimum elong	10774 Oct 30 22:42	17°♏04'47	1°03'42
	10774 Nov 18 09:31	0°♐	
max. Earth dist.	10774 Dec 04 23:43	11°♐22'50	2.54219 AU
morning rise	10774 Dec 23 23:56	24°♐09'35	
	10775 Jan 01 19:40	0°♑	
	10775 Feb 17 10:55	0°♒	
desc. node	10775 Mar 27 23:30	23°♒41'08	
	10775 Apr 07 13:34	0°♓	
	10775 May 30 22:02	0°♈	
	10775 Aug 15 04:08	0°♉	
retrograde	10775 Aug 31 00:27	1°♉24'41	
	10775 Sep 14 22:51	30°℞♈	
opposition	10775 Oct 06 18:58	23°♈28'16	-5°11'05
greatest brilliancy	10775 Oct 08 03:04	22°♈58'24	-1.8m
min. Earth dist.	10775 Oct 14 05:07	20°♈43'00	0.56448 AU
direct	10775 Nov 15 19:24	13°♈56'21	
	10776 Jan 10 01:23	0°♉	
	10776 Feb 28 22:26	0°♊	
asc. node	10776 Mar 21 04:58	14°♊53'59	
	10776 Apr 10 17:57	0°♋	
	10776 May 20 00:39	0°♌	
	10776 Jun 27 19:26	0°♍	
	10776 Aug 06 07:51	0°♎	
	10776 Sep 16 09:12	0°♏	
evening set	10776 Oct 25 16:09	27°♏28'30	
	10776 Oct 29 08:48	0°♐	
	10776 Dec 13 06:25	0°♑	
conjunction	10776 Dec 15 12:39	1°♑28'48	0°30'18
minimum elong	10776 Dec 15 13:43	1°♑30'32	0°30'52
max. Earth dist.	10776 Dec 31 13:07	11°♑54'15	2.63877 AU
	10777 Jan 28 18:02	0°♒	
morning rise	10777 Jan 30 23:40	1°♒25'17	
desc. node	10777 Feb 11 15:47	8°♒49'09	
	10777 Mar 17 09:56	0°♓	
	10777 May 05 02:41	0°♈	
	10777 Jun 24 11:58	0°♉	
	10777 Aug 18 21:32	0°♊	
retrograde	10777 Oct 27 15:51	21°♊09'21	
opposition	10777 Nov 28 20:09	15°♊11'36	-4°15'10
greatest brilliancy	10777 Nov 30 06:24	14°♊44'42	-2.6m
min. Earth dist.	10777 Dec 07 01:15	12°♊37'43	0.42690 AU
direct	10778 Jan 02 16:40	8°♊01'41	
asc. node	10778 Feb 06 10:11	15°♊44'12	
	10778 Mar 06 18:03	0°♋	
	10778 Apr 21 18:03	0°♌	
	10778 Jun 02 16:58	0°♍	
	10778 Jul 14 10:51	0°♎	
	10778 Aug 26 07:33	0°♏	
	10778 Oct 09 18:04	0°♐	
	10778 Nov 24 16:19	0°♑	
evening set	10778 Dec 07 08:02	8°♑08'13	
desc. node	10778 Dec 30 10:32	22°♑53'41	
	10779 Jan 10 14:38	0°♒	
conjunction	10779 Jan 22 01:10	7°♒15'39	-0°11'59
minimum elong	10779 Jan 22 00:49	7°♒15'05	0°11'28
behind sun begin	10779 Jan 21 11:44	6°♒54'21	
behind sun end	10779 Jan 22 13:53	7°♒35'49	
max. Earth dist.	10779 Jan 23 19:50	8°♒23'19	2.68115 AU
	10779 Feb 26 21:34	0°♓	
morning rise	10779 Mar 06 15:10	4°♓54'43	
	10779 Apr 14 23:36	0°♈	
	10779 May 31 13:40	0°♉	
	10779 Jul 16 15:53	0°♊	
	10779 Aug 31 14:13	0°♋	
	10779 Oct 17 17:06	0°♌	
	10779 Dec 13 08:07	0°♍	
asc. node	10779 Dec 25 11:07	4°♍05'42	
retrograde	10780 Jan 16 23:35	7°♍25'17	
min. Earth dist.	10780 Feb 12 22:53	3°♍02'50	0.37053 AU
opposition	10780 Feb 16 16:29	2°♍01'14	3°54'27
greatest brilliancy	10780 Feb 16 01:12	2°♍11'47	-3.0m
	10780 Feb 24 07:29	30°℞♌	
direct	10780 Mar 16 23:50	27°♌05'10	
	10780 Apr 07 09:29	0°♍	
	10780 Jun 11 11:02	0°♎	
	10780 Jul 31 03:17	0°♏	
	10780 Sep 17 05:30	0°♐	
	10780 Nov 04 06:55	0°♑	
desc. node	10780 Nov 16 10:41	7°♑34'56	
	10780 Dec 22 07:54	0°♒	
evening set	10781 Jan 11 21:28	12°♒55'01	
	10781 Feb 07 20:54	0°♓	
max. Earth dist.	10781 Feb 13 22:26	3°♓52'09	2.66816 AU
conjunction	10781 Feb 25 02:26	11°♓01'24	-0°48'22
minimum elong	10781 Feb 25 01:20	10°♓59'38	0°48'07
	10781 Mar 26 08:46	0°♈	
morning rise	10781 Apr 10 01:12	9°♈39'46	
	10781 May 10 10:44	0°♉	
	10781 Jun 22 23:51	0°♊	
	10781 Aug 04 01:46	0°♋	
	10781 Sep 14 00:14	0°♌	
	10781 Oct 24 12:46	0°♍	
asc. node	10781 Nov 11 08:57	13°♍02'37	
	10781 Dec 05 05:50	0°♎	
	10782 Jan 21 21:31	0°♏	
retrograde	10782 Mar 18 10:04	17°♏38'16	
min. Earth dist.	10782 Apr 16 05:48	11°♏51'27	0.48778 AU
greatest brilliancy	10782 Apr 22 22:22	9°♏25'51	-2.2m
opposition	10782 Apr 24 11:48	8°♏51'37	5°32'35
direct	10782 May 28 07:17	1°♏42'49	
	10782 Aug 20 02:51	0°♐	
desc. node	10782 Oct 04 14:57	24°♐54'48	
	10782 Oct 13 11:28	0°♑	
	10782 Dec 03 02:16	0°♒	
	10783 Jan 20 14:55	0°♓	
evening set	10783 Feb 16 19:02	17°♓21'38	
	10783 Mar 08 03:20	0°♈	
max. Earth dist.	10783 Mar 10 14:39	1°♈37'57	2.60119 AU

conjunction	10783 Apr 03 14:51	17°♈42'48	-1°08'11
minimum elong	10783 Apr 03 14:26	17°♈42'07	1°08'19
	10783 Apr 21 13:16	0°♉	
morning rise	10783 May 22 02:58	21°♉30'07	
	10783 Jun 02 22:28	0°♊	
	10783 Jul 13 13:19	0°♋	
	10783 Aug 21 21:23	0°♌	
asc. node	10783 Sep 29 04:15	29°♌38'35	
	10783 Sep 29 15:19	0°♍	
	10783 Nov 07 17:46	0°♎	
	10783 Dec 18 13:22	0°♏	
	10784 Feb 01 14:46	0°♐	
	10784 Apr 04 08:23	0°♑	
retrograde	10784 Apr 28 10:28	3°♑34'53	
	10784 May 21 02:36	30°℞♐	
min. Earth dist.	10784 Jun 02 04:02	25°♐42'03	0.60990 AU
opposition	10784 Jun 07 09:07	23°♐38'28	2°45'28
greatest brilliancy	10784 Jun 06 21:15	23°♐50'12	-1.6m
direct	10784 Jul 15 08:02	14°♐53'12	
desc. node	10784 Aug 21 20:03	21°♐56'36	
	10784 Sep 11 17:30	0°♑	
	10784 Nov 10 04:46	0°♒	
	10784 Dec 31 07:52	0°♓	
	10785 Feb 16 14:08	0°♈	
evening set	10785 Mar 28 01:27	26°♈38'57	
	10785 Apr 01 21:00	0°♉	
max. Earth dist.	10785 Apr 11 02:37	6°♉29'11	2.48561 AU
	10785 May 13 16:21	0°♊	
conjunction	10785 May 19 09:25	4°♊13'11	-0°53'51
minimum elong	10785 May 19 11:28	4°♊17'01	0°54'20
	10785 Jun 22 13:08	0°♋	
morning rise	10785 Jul 19 20:21	21°♋09'00	
	10785 Jul 31 03:32	0°♌	
asc. node	10785 Aug 15 20:53	12°♌21'56	
	10785 Sep 07 06:25	0°♍	
greatest brilliancy	10785 Sep 24 21:45	13°♍49'29	1.2m
	10785 Oct 15 18:35	0°♎	
	10785 Nov 24 15:00	0°♏	
	10786 Jan 05 22:38	0°♐	
	10786 Feb 21 14:46	0°♑	
	10786 Apr 21 13:06	0°♒	
retrograde	10786 Jun 02 13:50	9°♒08'12	
desc. node	10786 Jul 09 23:24	0°♒31'46	
	10786 Jul 11 07:26	30°℞♑	
min. Earth dist.	10786 Jul 11 17:25	29°♑50'04	0.67501 AU
opposition	10786 Jul 13 04:53	29°♑14'46	-0°06'50
greatest brilliancy	10786 Jul 13 04:46	29°♑14'53	-1.3m
direct	10786 Aug 22 17:12	19°♑37'36	
	10786 Oct 08 17:13	0°♒	
	10786 Dec 09 04:08	0°♓	
	10787 Jan 27 20:11	0°♈	
	10787 Mar 13 16:46	0°♉	
	10787 Apr 24 09:14	0°♊	
evening set	10787 May 19 21:53	19°♊14'26	
	10787 Jun 02 21:14	0°♋	
asc. node	10787 Jul 03 15:36	24°♋05'48	
	10787 Jul 11 02:47	0°♌	
conjunction	10787 Jul 25 20:59	11°♌41'43	0°16'02
minimum elong	10787 Jul 25 19:16	11°♌38'19	0°15'32
behind sun begin	10787 Jul 25 10:52	11°♌21'39	
behind sun end	10787 Jul 26 03:41	11°♌55'00	
max. Earth dist.	10787 Jul 26 00:36	11°♌48'53	2.36428 AU
	10787 Aug 17 23:45	0°♍	
	10787 Sep 25 09:21	0°♎	
morning rise	10787 Oct 07 10:07	9°♎12'53	
	10787 Nov 04 03:34	0°♏	
	10787 Dec 16 00:07	0°♐	
	10788 Jan 29 16:40	0°♑	
	10788 Mar 18 13:51	0°♒	
	10788 May 16 22:02	0°♓	
desc. node	10788 May 26 22:42	3°♓49'07	
retrograde	10788 Jul 05 21:43	11°♓46'05	
opposition	10788 Aug 14 21:32	2°♓23'40	-2°38'13
greatest brilliancy	10788 Aug 15 01:32	2°♓19'43	-1.3m
min. Earth dist.	10788 Aug 17 05:15	1°♓28'52	0.67472 AU
	10788 Aug 21 00:41	30°℞♒	
direct	10788 Sep 25 11:10	22°♒22'16	
	10788 Nov 03 04:53	0°♓	
	10789 Jan 03 15:54	0°♈	
	10789 Feb 19 21:53	0°♉	
	10789 Apr 03 05:14	0°♊	
	10789 May 12 19:08	0°♋	
asc. node	10789 May 20 16:16	6°♋07'53	
	10789 Jun 19 23:49	0°♌	
greatest brilliancy	10789 Jul 14 19:41	19°♌40'21	1.2m
	10789 Jul 27 21:39	0°♍	
evening set	10789 Jul 31 14:57	2°♍55'40	
	10789 Sep 04 11:24	0°♎	
conjunction	10789 Oct 07 20:46	25°♎07'16	1°06'15
minimum elong	10789 Oct 07 20:18	25°♎06'25	1°06'28
	10789 Oct 14 12:00	0°♏	
max. Earth dist.	10789 Nov 20 23:16	26°♏49'05	2.49140 AU
	10789 Nov 25 12:49	0°♐	
morning rise	10789 Dec 06 01:02	7°♐15'33	
	10790 Jan 08 21:13	0°♑	
	10790 Feb 24 18:56	0°♒	
desc. node	10790 Apr 13 16:32	28°♒39'12	
	10790 Apr 16 01:09	0°♓	
	10790 Jun 13 02:11	0°♈	
retrograde	10790 Aug 13 10:32	16°♈22'09	
opposition	10790 Sep 20 10:42	7°♈54'33	-4°39'47
greatest brilliancy	10790 Sep 21 09:30	7°♈32'47	-1.6m
min. Earth dist.	10790 Sep 26 12:36	5°♈35'33	0.60794 AU
	10790 Oct 14 06:35	30°℞♓	
direct	10790 Oct 31 08:49	28°♓02'19	
	10790 Nov 18 08:21	0°♈	
	10791 Jan 24 22:47	0°♉	
	10791 Mar 11 09:45	0°♊	
asc. node	10791 Apr 07 19:33	20°♊00'10	
	10791 Apr 21 01:09	0°♋	
	10791 May 29 18:38	0°♌	
	10791 Jul 07 03:39	0°♍	
	10791 Aug 15 06:30	0°♎	
	10791 Sep 24 22:00	0°♏	
evening set	10791 Oct 06 13:32	8°♏20'41	
	10791 Nov 06 12:40	0°♐	
conjunction	10791 Nov 29 23:41	15°♐55'46	0°45'31
minimum elong	10791 Nov 30 01:11	15°♐58'18	0°46'03
	10791 Dec 21 03:58	0°♑	
max. Earth dist.	10791 Dec 22 19:16	1°♑04'35	2.60726 AU
morning rise	10792 Jan 17 16:26	17°♑54'06	
	10792 Feb 05 14:50	0°♒	
desc. node	10792 Feb 29 07:40	14°♒55'22	
	10792 Mar 24 15:47	0°♓	
	10792 May 13 12:59	0°♈	
	10792 Jul 06 07:51	0°♉	
retrograde	10792 Oct 01 18:20	29°♉30'00	
opposition	10792 Nov 05 01:04	22°♉38'53	-5°14'18
greatest brilliancy	10792 Nov 06 18:08	22°♉03'31	-2.2m
min. Earth dist.	10792 Nov 13 19:54	19°♉38'43	0.48214 AU

direct	10792 Dec 12 11:52	14°♉14'55	
	10793 Feb 03 03:15	0°♊	
asc. node	10793 Feb 22 23:40	11°♊16'44	
	10793 Mar 23 12:27	0°♋	
	10793 May 03 23:44	0°♌	
	10793 Jun 13 01:13	0°♍	
	10793 Jul 23 13:54	0°♎	
	10793 Sep 03 12:19	0°♏	
	10793 Oct 17 05:45	0°♐	
evening set	10793 Nov 21 20:44	23°♐36'36	
	10793 Dec 01 15:57	0°♑	
conjunction	10794 Jan 08 00:55	24°♑03'50	0°04'19
minimum elong	10794 Jan 08 01:05	24°♑04'05	0°04'53
behind sun begin	10794 Jan 07 06:50	23°♑34'59	
behind sun end	10794 Jan 08 19:19	24°♑33'11	
max. Earth dist.	10794 Jan 15 01:55	28°♑33'25	2.67124 AU
desc. node	10794 Jan 16 01:18	29°♑10'40	
	10794 Jan 17 08:16	0°♒	
morning rise	10794 Feb 21 07:43	22°♒11'02	
	10794 Mar 05 16:39	0°♓	
	10794 Apr 22 05:51	0°♈	
	10794 Jun 08 21:09	0°♉	
	10794 Jul 26 23:33	0°♊	
	10794 Sep 15 01:33	0°♋	
	10794 Nov 16 19:31	0°♌	
retrograde	10794 Dec 15 18:36	4°♌57'18	
asc. node	10795 Jan 11 04:00	0°♌56'00	
opposition	10795 Jan 14 11:20	0°♌03'31	0°15'31
	10795 Jan 14 16:36	30°℞♋	
greatest brilliancy	10795 Jan 14 11:41	0°♌03'16	-3.1m
min. Earth dist.	10795 Jan 16 15:09	29°♋29'04	0.36779 AU
direct	10795 Feb 13 11:15	24°♋56'47	
	10795 Mar 13 15:35	0°♌	
	10795 May 11 06:31	0°♍	
	10795 Jun 26 22:54	0°♎	
	10795 Aug 11 12:25	0°♏	
	10795 Sep 26 16:08	0°♐	
	10795 Nov 12 16:16	0°♑	
desc. node	10795 Dec 03 23:09	13°♑27'40	
evening set	10795 Dec 30 01:04	29°♑54'53	
	10795 Dec 30 04:19	0°♒	
max. Earth dist.	10796 Feb 06 07:28	24°♒07'16	2.67980 AU
conjunction	10796 Feb 12 11:27	28°♒02'23	-0°35'38
minimum elong	10796 Feb 12 10:31	28°♒00'54	0°35'16
	10796 Feb 15 13:21	0°♓	
morning rise	10796 Mar 26 21:01	25°♓53'24	
	10796 Apr 02 05:00	0°♈	
	10796 May 17 18:16	0°♉	
	10796 Jul 01 01:36	0°♊	
	10796 Aug 13 04:13	0°♋	
	10796 Sep 24 10:02	0°♌	
	10796 Nov 05 19:29	0°♍	
asc. node	10796 Nov 28 03:49	15°♍11'32	
	10796 Dec 21 15:06	0°♎	
retrograde	10797 Feb 25 19:27	24°♎01'10	
min. Earth dist.	10797 Mar 24 08:10	19°♎10'29	0.43268 AU
greatest brilliancy	10797 Mar 30 22:47	16°♎59'19	-2.5m
opposition	10797 Apr 01 16:27	16°♎24'29	6°00'59
direct	10797 May 03 10:40	10°♎11'31	
	10797 Jul 07 19:13	0°♏	
	10797 Sep 01 05:41	0°♐	
desc. node	10797 Oct 21 01:37	29°♐23'05	
	10797 Oct 22 02:13	0°♑	
	10797 Dec 10 10:13	0°♒	
	10798 Jan 27 11:13	0°♓	
evening set	10798 Feb 02 15:18	3°♓55'21	
max. Earth dist.	10798 Feb 28 13:02	20°♓35'33	2.63365 AU
	10798 Mar 14 22:06	0°♈	
conjunction	10798 Mar 19 09:59	2°♈57'53	-1°03'22
minimum elong	10798 Mar 19 09:05	2°♈56'25	1°03'20
	10798 Apr 28 13:05	0°♉	
morning rise	10798 May 04 11:05	4°♉04'36	
	10798 Jun 10 07:22	0°♊	
	10798 Jul 21 09:27	0°♋	
	10798 Aug 30 04:57	0°♌	
	10798 Oct 08 10:08	0°♍	
asc. node	10798 Oct 15 22:09	5°♍43'50	
	10798 Nov 17 02:01	0°♎	
	10798 Dec 28 23:32	0°♏	
	10799 Feb 15 21:50	0°♐	
retrograde	10799 Apr 14 07:46	17°♐42'03	
min. Earth dist.	10799 May 16 22:03	10°♐33'07	0.56756 AU
opposition	10799 May 23 12:06	7°♐59'35	3°55'22
greatest brilliancy	10799 May 22 14:48	8°♐20'18	-1.8m
	10799 Jun 22 20:56	30°℞♏	
direct	10799 Jun 29 00:17	29°♏45'22	
	10799 Jul 05 08:14	0°♐	
desc. node	10799 Sep 08 07:23	20°♐57'46	
	10799 Sep 26 13:20	0°♑	
	10799 Nov 19 21:30	0°♒	
	10800 Jan 08 17:06	0°♓	
	10800 Feb 24 14:13	0°♈	
evening set	10800 Mar 11 11:24	10°♈33'55	
max. Earth dist.	10800 Mar 27 17:56	21°♈36'33	2.53575 AU
	10800 Apr 08 21:22	0°♉	
conjunction	10800 Apr 29 10:38	14°♉29'32	-1°05'10
minimum elong	10800 Apr 29 11:38	14°♉31'20	1°05'32
	10800 May 20 21:15	0°♊	
morning rise	10800 Jun 23 11:26	25°♊02'19	
	10800 Jun 30 00:07	0°♋	
	10800 Aug 07 20:08	0°♌	
asc. node	10800 Sep 01 15:35	19°♌25'37	
	10800 Sep 15 03:20	0°♍	
	10800 Oct 23 18:53	0°♎	
	10800 Dec 02 19:54	0°♏	
	10801 Jan 14 16:44	0°♐	
	10801 Mar 04 11:49	0°♑	
retrograde	10801 May 20 06:25	26°♑08'46	
min. Earth dist.	10801 Jun 26 20:39	17°♑20'23	0.65714 AU
opposition	10801 Jun 29 19:37	16°♑09'43	0°57'44
greatest brilliancy	10801 Jun 29 17:21	16°♑11'58	-1.4m
desc. node	10801 Jul 26 12:43	7°♑53'15	
direct	10801 Aug 08 12:36	6°♑49'14	
	10801 Oct 23 18:23	0°♒	
	10801 Dec 18 00:32	0°♓	
	10802 Feb 04 10:44	0°♈	
	10802 Mar 21 00:01	0°♉	
evening set	10802 Apr 27 00:38	26°♉33'07	
	10802 May 01 16:48	0°♊	
max. Earth dist.	10802 May 15 09:36	10°♊13'34	2.40249 AU
	10802 Jun 10 07:44	0°♋	
conjunction	10802 Jun 26 11:38	12°♋33'39	-0°17'06
minimum elong	10802 Jun 26 13:14	12°♋36'46	0°17'40
	10802 Jul 18 16:06	0°♌	
asc. node	10802 Jul 20 09:57	1°♌22'38	
	10802 Aug 25 14:30	0°♍	
morning rise	10802 Sep 06 13:11	9°♍24'16	
	10802 Oct 02 23:58	0°♎	
	10802 Nov 11 17:10	0°♏	

	10802 Dec 23 14:44	0°♐	
	10803 Feb 06 17:15	0°♑	
	10803 Mar 29 10:26	0°♒	
desc. node	10803 Jun 13 13:20	28°♒44'02	
retrograde	10803 Jun 23 08:20	29°♒18'05	
opposition	10803 Aug 02 17:41	19°♒40'51	-1°42'25
greatest brilliancy	10803 Aug 02 18:03	19°♒40'30	-1.3m
min. Earth dist.	10803 Aug 03 13:36	19°♒21'09	0.68279 AU
direct	10803 Sep 13 01:48	9°♒45'49	
	10803 Nov 21 02:17	0°♓	
	10804 Jan 14 01:48	0°♈	
	10804 Feb 29 00:49	0°♉	
	10804 Apr 10 23:43	0°♊	
	10804 May 20 11:43	0°♋	
asc. node	10804 Jun 06 06:59	13°♋07'31	
	10804 Jun 27 15:53	0°♌	
evening set	10804 Jul 01 02:13	2°♌43'11	
	10804 Aug 04 12:33	0°♍	
conjunction	10804 Sep 10 20:54	29°♍08'17	0°57'36
minimum elong	10804 Sep 10 17:53	29°♍02'28	0°57'31
	10804 Sep 11 23:49	0°♎	
	10804 Oct 21 20:41	0°♏	
max. Earth dist.	10804 Nov 01 23:07	8°♏06'24	2.43557 AU
morning rise	10804 Nov 15 09:53	17°♏46'41	
	10804 Dec 02 18:06	0°♐	
	10805 Jan 16 02:39	0°♑	
	10805 Mar 04 11:22	0°♒	
	10805 Apr 25 14:14	0°♓	
desc. node	10805 Apr 30 08:41	2°♓31'20	
	10805 Jul 06 23:44	0°♈	
retrograde	10805 Jul 28 12:59	2°♈31'20	
	10805 Aug 17 12:46	30°℞♓	
opposition	10805 Sep 05 12:18	23°♓38'31	-3°57'40
greatest brilliancy	10805 Sep 06 02:26	23°♓24'50	-1.4m
min. Earth dist.	10805 Sep 10 03:25	21°♓50'53	0.64209 AU
direct	10805 Oct 16 22:29	13°♓36'56	
	10805 Dec 14 10:20	0°♈	
	10806 Feb 04 23:17	0°♉	
	10806 Mar 20 14:11	0°♊	
asc. node	10806 Apr 24 10:16	26°♊00'38	
	10806 Apr 29 15:00	0°♋	
	10806 Jun 07 00:55	0°♌	
	10806 Jul 15 03:35	0°♍	
	10806 Aug 22 23:37	0°♎	
evening set	10806 Sep 13 08:29	16°♎03'43	
	10806 Oct 02 07:37	0°♏	
conjunction	10806 Nov 11 13:14	28°♏33'23	0°58'08
minimum elong	10806 Nov 11 14:47	28°♏36'04	0°58'36
	10806 Nov 13 15:17	0°♐	
max. Earth dist.	10806 Dec 12 00:27	19°♐19'06	2.56775 AU
	10806 Dec 28 02:04	0°♑	
morning rise	10807 Jan 02 09:09	3°♑28'54	
	10807 Feb 12 14:22	0°♒	
desc. node	10807 Mar 18 00:30	20°♒46'55	
	10807 Apr 02 04:55	0°♓	
	10807 May 23 21:56	0°♈	
	10807 Jul 24 04:47	0°♉	
retrograde	10807 Sep 10 23:14	11°♉12'20	
opposition	10807 Oct 16 22:54	3°♉36'17	-5°20'37
greatest brilliancy	10807 Oct 18 11:29	3°♉02'56	-1.9m
min. Earth dist.	10807 Oct 25 00:26	0°♉40'46	0.53706 AU
	10807 Oct 26 23:10	30°℞♈	
direct	10807 Nov 25 06:03	24°♈22'32	
	10807 Dec 25 15:13	0°♉	
	10808 Feb 21 06:27	0°♊	
asc. node	10808 Mar 11 15:31	12°♊59'41	
	10808 Apr 04 09:43	0°♋	
	10808 May 14 05:10	0°♌	
	10808 Jun 22 07:36	0°♍	
	10808 Aug 01 02:13	0°♎	
	10808 Sep 11 08:52	0°♏	
	10808 Oct 24 13:06	0°♐	
evening set	10808 Nov 05 01:25	7°♐46'59	
	10808 Dec 08 13:49	0°♑	
conjunction	10808 Dec 24 09:02	10°♑16'52	0°20'48
minimum elong	10808 Dec 24 09:46	10°♑18'03	0°21'22
max. Earth dist.	10809 Jan 06 00:50	18°♑26'52	2.65269 AU
	10809 Jan 24 02:11	0°♒	
desc. node	10809 Feb 01 16:01	5°♒27'20	
morning rise	10809 Feb 07 21:20	9°♒24'03	
	10809 Mar 12 14:14	0°♓	
	10809 Apr 29 19:00	0°♈	
	10809 Jun 17 22:38	0°♉	
	10809 Aug 08 13:44	0°♊	
	10809 Oct 11 16:30	0°♋	
retrograde	10809 Nov 13 07:34	5°♋50'22	
opposition	10809 Dec 14 07:49	0°♋22'13	-3°03'48
greatest brilliancy	10809 Dec 15 06:25	0°♋05'30	-2.8m
	10809 Dec 15 13:50	30°℞♊	
min. Earth dist.	10809 Dec 21 03:23	28°♊21'45	0.39978 AU
direct	10810 Jan 16 10:24	24°♊00'41	
asc. node	10810 Jan 27 18:48	24°♊55'25	
	10810 Feb 15 16:02	0°♋	
	10810 Apr 12 06:00	0°♌	
	10810 May 26 08:44	0°♍	
	10810 Jul 08 04:43	0°♎	
	10810 Aug 20 17:54	0°♏	
	10810 Oct 04 15:40	0°♐	
	10810 Nov 19 21:06	0°♑	
evening set	10810 Dec 15 18:33	16°♑32'18	
desc. node	10810 Dec 20 12:10	19°♑32'56	
	10811 Jan 05 23:18	0°♒	
conjunction	10811 Jan 29 21:41	15°♒10'15	-0°21'07
minimum elong	10811 Jan 29 21:04	15°♒09'17	0°20'39
max. Earth dist.	10811 Jan 28 20:55	14°♒31'01	2.68299 AU
	10811 Feb 22 06:21	0°♓	
morning rise	10811 Mar 14 06:56	12°♓45'36	
	10811 Apr 10 04:09	0°♈	
	10811 May 26 08:21	0°♉	
	10811 Jul 10 16:29	0°♊	
	10811 Aug 24 08:08	0°♋	
	10811 Oct 07 22:39	0°♌	
	10811 Nov 24 02:45	0°♍	
asc. node	10811 Dec 15 19:46	11°♍51'22	
retrograde	10812 Feb 02 02:10	25°♍41'56	
min. Earth dist.	10812 Feb 27 23:38	21°♍24'47	0.38659 AU
greatest brilliancy	10812 Mar 04 00:16	19°♍56'29	-2.9m
opposition	10812 Mar 05 06:11	19°♍34'28	5°14'48
direct	10812 Apr 04 00:53	14°♍17'50	
	10812 May 29 10:54	0°♎	
	10812 Jul 23 11:35	0°♏	
	10812 Sep 11 06:24	0°♐	
	10812 Oct 30 02:38	0°♑	
desc. node	10812 Nov 06 13:56	4°♑36'30	
	10812 Dec 17 13:01	0°♒	
evening set	10813 Jan 19 18:57	20°♒50'44	
	10813 Feb 03 05:41	0°♓	
max. Earth dist.	10813 Feb 19 03:53	10°♓10'44	2.65807 AU
conjunction	10813 Mar 05 01:39	19°♓08'58	-0°54'47

minimum elong	10813 Mar 05 00:34	19°♓07'12	0°54'36
	10813 Mar 21 17:01	0°♈	
morning rise	10813 Apr 18 13:38	18°♈28'32	
	10813 May 05 15:07	0°♉	
	10813 Jun 17 21:14	0°♊	
	10813 Jul 29 14:06	0°♋	
	10813 Sep 08 01:28	0°♌	
	10813 Oct 17 23:49	0°♍	
asc. node	10813 Nov 01 17:27	11°♍00'17	
	10813 Nov 27 15:57	0°♎	
	10814 Jan 10 23:25	0°♏	
retrograde	10814 Mar 28 17:55	29°♏39'50	
min. Earth dist.	10814 Apr 27 23:06	23°♏22'05	0.51757 AU
greatest brilliancy	10814 May 04 09:36	20°♏57'13	-2.0m
opposition	10814 May 05 17:42	20°♏27'00	5°01'20
direct	10814 Jun 09 13:13	12°♏52'16	
	10814 Aug 10 04:10	0°♐	
desc. node	10814 Sep 24 18:30	23°♐06'48	
	10814 Oct 07 05:20	0°♑	
	10814 Nov 27 21:34	0°♒	
	10815 Jan 15 20:03	0°♓	
evening set	10815 Feb 25 03:41	25°♓50'45	
	10815 Mar 03 11:25	0°♈	
max. Earth dist.	10815 Mar 16 19:31	8°♈51'25	2.57965 AU
conjunction	10815 Apr 12 21:05	27°♈14'52	-1°08'50
minimum elong	10815 Apr 12 21:06	27°♈14'54	1°09'04
	10815 Apr 16 20:35	0°♉	
	10815 May 29 02:31	0°♊	
morning rise	10815 Jun 02 07:05	3°♊03'06	
	10815 Jul 08 13:12	0°♋	
	10815 Aug 16 16:49	0°♌	
asc. node	10815 Sep 19 09:54	26°♌13'18	
	10815 Sep 24 06:24	0°♍	
	10815 Nov 02 03:54	0°♎	
	10815 Dec 12 14:01	0°♏	
	10816 Jan 25 11:58	0°♐	
	10816 Mar 19 07:00	0°♑	
retrograde	10816 May 06 13:08	12°♑23'43	
min. Earth dist.	10816 Jun 11 08:39	4°♑09'54	0.62937 AU
opposition	10816 Jun 15 18:59	2°♑24'26	2°05'15
greatest brilliancy	10816 Jun 15 11:22	2°♑31'59	-1.5m
	10816 Jun 22 00:15	30°℞♐	
direct	10816 Jul 24 10:58	23°♐25'14	
desc. node	10816 Aug 12 00:02	25°♐20'10	
	10816 Aug 29 14:53	0°♑	
	10816 Nov 03 19:33	0°♒	
	10816 Dec 26 02:54	0°♓	
	10817 Feb 11 18:23	0°♈	
	10817 Mar 28 03:52	0°♉	
evening set	10817 Apr 07 05:08	7°♉03'59	
max. Earth dist.	10817 Apr 21 02:07	16°♉58'39	2.45589 AU
	10817 May 08 22:31	0°♊	
conjunction	10817 Jun 01 01:07	17°♊16'28	-0°43'17
minimum elong	10817 Jun 01 03:32	17°♊21'03	0°43'49
	10817 Jun 17 17:20	0°♋	
	10817 Jul 26 05:22	0°♌	
morning rise	10817 Aug 05 16:30	8°♌14'45	
asc. node	10817 Aug 06 03:21	8°♌36'10	
	10817 Sep 02 06:07	0°♍	
	10817 Oct 10 16:34	0°♎	
	10817 Nov 19 10:34	0°♏	
	10817 Dec 31 12:14	0°♐	
	10818 Feb 15 09:03	0°♑	
	10818 Apr 10 16:33	0°♒	
retrograde	10818 Jun 10 02:36	16°♒52'08	
desc. node	10818 Jun 30 02:57	14°♒14'56	
opposition	10818 Jul 20 17:15	7°♒03'29	-0°43'09
min. Earth dist.	10818 Jul 20 01:17	7°♒19'21	0.68074 AU
greatest brilliancy	10818 Jul 20 16:29	7°♒04'15	-1.3m
	10818 Aug 10 00:13	30°℞♑	
direct	10818 Aug 30 14:36	27°♑19'01	
	10818 Sep 21 20:55	0°♒	
	10818 Dec 02 15:27	0°♓	
	10819 Jan 22 12:35	0°♈	
	10819 Mar 08 18:09	0°♉	
	10819 Apr 19 13:09	0°♊	
	10819 May 29 01:29	0°♋	
evening set	10819 Jun 03 08:27	4°♋06'36	
asc. node	10819 Jun 24 00:43	20°♋19'25	
	10819 Jul 06 06:27	0°♌	
conjunction	10819 Aug 12 08:33	29°♌24'02	0°34'13
minimum elong	10819 Aug 12 05:07	29°♌17'16	0°33'49
	10819 Aug 13 02:45	0°♍	
	10819 Sep 20 12:06	0°♎	
max. Earth dist.	10819 Sep 30 09:32	7°♎35'13	2.38091 AU
morning rise	10819 Oct 23 02:22	24°♎42'02	
	10819 Oct 30 06:01	0°♏	
	10819 Dec 11 01:13	0°♐	
	10820 Jan 24 12:36	0°♑	
	10820 Mar 12 15:32	0°♒	
	10820 May 07 02:58	0°♓	
desc. node	10820 May 16 23:55	4°♓29'54	
retrograde	10820 Jul 13 22:01	19°♓31'36	
opposition	10820 Aug 22 14:33	10°♓18'34	-3°09'02
greatest brilliancy	10820 Aug 22 21:37	10°♓11'38	-1.3m
min. Earth dist.	10820 Aug 25 17:57	9°♓04'46	0.66595 AU
direct	10820 Oct 03 04:51	0°♓15'40	
	10820 Dec 27 16:30	0°♈	
	10821 Feb 14 07:06	0°♉	
	10821 Mar 29 00:04	0°♊	
	10821 May 07 17:41	0°♋	
asc. node	10821 May 11 01:19	2°♋34'11	
	10821 Jun 15 00:05	0°♌	
	10821 Jul 22 23:09	0°♍	
evening set	10821 Aug 17 05:39	19°♍43'22	
	10821 Aug 30 14:25	0°♎	
	10821 Oct 09 16:33	0°♏	
conjunction	10821 Oct 21 07:46	8°♏27'00	1°05'40
minimum elong	10821 Oct 21 08:26	8°♏28'11	1°06'00
	10821 Nov 20 18:23	0°♐	
max. Earth dist.	10821 Nov 29 09:52	5°♐58'29	2.52020 AU
morning rise	10821 Dec 16 12:29	17°♐37'19	
	10822 Jan 04 02:05	0°♑	
	10822 Feb 19 18:17	0°♒	
desc. node	10822 Apr 03 16:18	26°♒08'52	
	10822 Apr 10 05:36	0°♓	
	10822 Jun 04 01:01	0°♈	
retrograde	10822 Aug 23 03:50	25°♈14'51	
opposition	10822 Sep 29 12:41	17°♈03'24	-4°59'19
greatest brilliancy	10822 Sep 30 16:40	16°♈37'01	-1.7m
min. Earth dist.	10822 Oct 06 09:05	14°♈28'54	0.58509 AU
direct	10822 Nov 09 00:14	7°♈20'44	
	10823 Jan 16 10:28	0°♉	
	10823 Mar 05 00:37	0°♊	
asc. node	10823 Mar 29 04:42	17°♊15'49	
	10823 Apr 15 07:10	0°♋	
	10823 May 24 07:37	0°♌	
	10823 Jul 01 21:13	0°♍	
	10823 Aug 10 04:19	0°♎	
	10823 Sep 19 23:53	0°♏	

evening set	10823 Oct 18	06:55	20°♏00'33	
	10823 Nov 01	18:04	0°♐	
conjunction	10823 Dec 09	14:30	25°♐27'55	0°36'52
minimum elong	10823 Dec 09	15:47	25°♐30'03	0°37'26
	10823 Dec 16	11:33	0°♑	
max. Earth dist.	10823 Dec 28	14:05	7°♑55'10	2.62571 AU
morning rise	10824 Jan 25	23:13	26°♑12'55	
	10824 Jan 31	21:44	0°♒	
desc. node	10824 Feb 19	08:33	11°♒40'47	
	10824 Mar 19	16:19	0°♓	
	10824 May 07	19:29	0°♈	
	10824 Jun 28	09:02	0°♉	
	10824 Aug 27	13:23	0°♊	
retrograde	10824 Oct 15	18:27	11°♊42'14	
opposition	10824 Nov 17	21:57	5°♊19'51	-4°48'44
greatest brilliancy	10824 Nov 19	13:09	4°♊47'38	-2.4m
min. Earth dist.	10824 Nov 26	15:07	2°♊29'06	0.45119 AU
	10824 Dec 05	06:49	30°℞♉	
direct	10824 Dec 24	01:38	27°♉33'41	
	10825 Jan 12	00:10	0°♊	
asc. node	10825 Feb 13	10:00	12°♊56'04	
	10825 Mar 14	10:09	0°♋	
	10825 Apr 26	20:15	0°♌	
	10825 Jun 06	18:38	0°♍	
	10825 Jul 17	20:51	0°♎	
	10825 Aug 29	05:31	0°♏	
	10825 Oct 12	06:42	0°♐	
	10825 Nov 26	22:19	0°♑	
evening set	10825 Nov 30	19:42	2°♑31'03	
desc. node	10826 Jan 06	02:51	25°♑47'49	
	10826 Jan 12	17:17	0°♒	
conjunction	10826 Jan 16	02:40	2°♒09'25	-0°05'22
minimum elong	10826 Jan 16	02:30	2°♒09'08	0°04'50
behind sun begin	10826 Jan 15	08:30	1°♒40'32	
behind sun end	10826 Jan 16	20:30	2°♒37'44	
max. Earth dist.	10826 Jan 20	04:01	4°♒44'08	2.67778 AU
morning rise	10826 Feb 28	22:42	29°♒57'20	
	10826 Mar 01	00:23	0°♓	
	10826 Apr 17	07:04	0°♈	
	10826 Jun 03	07:29	0°♉	
	10826 Jul 20	04:11	0°♊	
	10826 Sep 05	12:50	0°♋	
	10826 Oct 26	01:57	0°♌	
asc. node	10827 Jan 01	12:18	23°♌31'09	
retrograde	10827 Jan 03	07:50	23°♌32'29	
min. Earth dist.	10827 Feb 01	00:58	18°♌49'51	0.36480 AU
opposition	10827 Feb 02	04:51	18°♌31'19	2°27'12
greatest brilliancy	10827 Feb 02	00:18	18°♌34'21	-3.1m
direct	10827 Mar 03	12:08	13°♌39'36	
	10827 Apr 27	11:47	0°♍	
	10827 Jun 18	15:37	0°♎	
	10827 Aug 05	02:11	0°♏	
	10827 Sep 21	04:22	0°♐	
	10827 Nov 07	17:06	0°♑	
desc. node	10827 Nov 24	01:56	10°♑16'43	
	10827 Dec 25	11:53	0°♒	
evening set	10828 Jan 06	23:34	7°♒51'28	
	10828 Feb 10	23:08	0°♓	
max. Earth dist.	10828 Feb 11	07:43	0°♓13'41	2.67439 AU
conjunction	10828 Feb 20	05:36	5°♓54'47	-0°43'22
minimum elong	10828 Feb 20	04:33	5°♓53'07	0°43'04
	10828 Mar 28	13:08	0°♈	
morning rise	10828 Apr 03	20:49	4°♈07'54	
	10828 May 12	20:35	0°♉	
	10828 Jun 25	17:52	0°♊	
	10828 Aug 07	06:23	0°♋	
	10828 Sep 17	17:10	0°♌	
	10828 Oct 28	21:22	0°♍	
asc. node	10828 Nov 18	10:26	14°♍40'20	
	10828 Dec 10	18:50	0°♎	
	10829 Feb 01	17:31	0°♏	
retrograde	10829 Mar 09	21:32	8°♏24'07	
min. Earth dist.	10829 Apr 06	15:44	3°♏02'32	0.46306 AU
greatest brilliancy	10829 Apr 13	09:37	0°♏40'42	-2.3m
opposition	10829 Apr 15	02:09	0°♏04'48	5°51'00
	10829 Apr 15	07:36	30°℞♎	
direct	10829 May 17	23:59	23°♎19'39	
	10829 Jun 21	20:50	0°♏	
	10829 Aug 24	19:24	0°♐	
desc. node	10829 Oct 11	05:47	26°♐57'13	
	10829 Oct 16	10:19	0°♑	
	10829 Dec 05	11:00	0°♒	
	10830 Jan 22	18:52	0°♓	
evening set	10830 Feb 10	15:34	12°♓00'55	
max. Earth dist.	10830 Mar 06	05:30	27°♓18'57	2.61679 AU
	10830 Mar 10	07:30	0°♈	
conjunction	10830 Mar 27	22:15	11°♈41'58	-1°06'43
minimum elong	10830 Mar 27	21:36	11°♈40'53	1°06'47
	10830 Apr 23	20:46	0°♉	
morning rise	10830 May 14	04:51	14°♉09'38	
	10830 Jun 05	10:52	0°♊	
	10830 Jul 16	07:21	0°♋	
	10830 Aug 24	20:38	0°♌	
	10830 Oct 02	18:53	0°♍	
asc. node	10830 Oct 06	06:08	2°♍40'22	
	10830 Nov 11	01:43	0°♎	
	10830 Dec 22	04:39	0°♏	
	10831 Feb 06	07:12	0°♐	
retrograde	10831 Apr 23	02:03	27°♐28'37	
min. Earth dist.	10831 May 26	21:30	19°♐54'58	0.59213 AU
opposition	10831 Jun 01	18:17	17°♐36'49	3°15'00
greatest brilliancy	10831 Jun 01	02:34	17°♐52'14	-1.7m
direct	10831 Jul 09	03:07	9°♐04'30	
desc. node	10831 Aug 29	11:12	21°♐19'50	
	10831 Sep 18	04:26	0°♑	
	10831 Nov 14	03:26	0°♒	
	10832 Jan 03	17:11	0°♓	
	10832 Feb 19	20:37	0°♈	
evening set	10832 Mar 20	17:02	19°♈59'57	
	10832 Apr 04	04:59	0°♉	
max. Earth dist.	10832 Apr 04	14:28	0°♉16'31	2.50875 AU
conjunction	10832 May 10	08:50	25°♉46'30	-0°59'45
minimum elong	10832 May 10	10:27	25°♉49'27	1°00'12
	10832 May 16	03:27	0°♊	
	10832 Jun 25	03:49	0°♋	
morning rise	10832 Jul 07	17:43	9°♋39'43	
	10832 Aug 02	21:13	0°♌	
asc. node	10832 Aug 22	23:01	15°♌45'31	
	10832 Sep 10	01:49	0°♍	
	10832 Oct 18	14:44	0°♎	
	10832 Nov 27	11:35	0°♏	
	10833 Jan 08	21:47	0°♐	
	10833 Feb 25	03:55	0°♑	
	10833 Apr 30	19:49	0°♒	
retrograde	10833 May 27	21:55	4°♒10'06	
	10833 Jun 22	01:35	30°℞♑	
min. Earth dist.	10833 Jul 05	09:23	25°♑05'09	0.66827 AU
opposition	10833 Jul 07	13:15	24°♑13'32	0°19'26
greatest brilliancy	10833 Jul 07	12:46	24°♑14'01	-1.4m

desc. node	10833 Jul 16 15:15	20°♉43'59	
direct	10833 Aug 16 18:14	14°♉43'23	
	10833 Oct 14 18:34	0°♒	
	10833 Dec 12 04:42	0°♓	
	10834 Jan 30 09:00	0°♈	
	10834 Mar 16 04:00	0°♉	
	10834 Apr 26 21:48	0°♊	
evening set	10834 May 09 11:58	9°♊23'41	
	10834 Jun 05 11:59	0°♋	
max. Earth dist.	10834 Jun 08 07:07	2°♋09'54	2.37637 AU
asc. node	10834 Jul 10 16:51	27°♋33'09	
conjunction	10834 Jul 12 14:02	29°♋02'23	0°01'23
minimum elong	10834 Jul 12 13:57	29°♋02'12	0°00'50
behind sun begin	10834 Jul 11 08:28	28°♋03'58	
behind sun end	10834 Jul 13 19:26	0°♌00'28	
	10834 Jul 13 19:12	0°♌	
	10834 Aug 20 16:35	0°♍	
morning rise	10834 Sep 24 06:57	27°♍05'13	
	10834 Sep 28 01:28	0°♎	
	10834 Nov 06 18:05	0°♏	
	10834 Dec 18 13:10	0°♐	
	10835 Feb 01 07:21	0°♑	
	10835 Mar 22 17:00	0°♒	
	10835 May 25 03:36	0°♓	
desc. node	10835 Jun 03 15:13	2°♓54'27	
retrograde	10835 Jul 01 01:09	6°♓56'29	
	10835 Aug 03 16:01	30°℞♒	
opposition	10835 Aug 10 05:58	27°♒26'54	-2°15'39
greatest brilliancy	10835 Aug 10 08:03	27°♒24'51	-1.3m
min. Earth dist.	10835 Aug 11 21:18	26°♒48'07	0.67964 AU
direct	10835 Sep 20 18:17	17°♒27'57	
	10835 Nov 11 09:14	0°♓	
	10836 Jan 08 00:37	0°♈	
	10836 Feb 23 18:22	0°♉	
	10836 Apr 05 23:16	0°♊	
	10836 May 15 13:13	0°♋	
asc. node	10836 May 27 16:27	9°♋27'15	
	10836 Jun 22 17:58	0°♌	
evening set	10836 Jul 18 05:32	20°♌12'15	
	10836 Jul 30 14:53	0°♍	
	10836 Sep 07 02:42	0°♎	
conjunction	10836 Sep 26 14:02	14°♎48'11	1°04'14
minimum elong	10836 Sep 26 12:30	14°♎45'16	1°04'20
	10836 Oct 17 00:29	0°♏	
max. Earth dist.	10836 Nov 13 15:49	19°♏57'54	2.46685 AU
morning rise	10836 Nov 27 11:44	29°♏41'47	
	10836 Nov 27 22:11	0°♐	
	10837 Jan 11 04:56	0°♑	
	10837 Feb 27 04:56	0°♒	
	10837 Apr 19 01:00	0°♓	
desc. node	10837 Apr 20 09:36	0°♓45'23	
	10837 Jun 19 08:43	0°♈	
retrograde	10837 Aug 06 10:16	10°♈49'32	
opposition	10837 Sep 13 21:35	2°♈09'51	-4°23'04
greatest brilliancy	10837 Sep 14 16:23	1°♈51'47	-1.5m
min. Earth dist.	10837 Sep 19 07:57	0°♈04'41	0.62442 AU
	10837 Sep 19 12:53	30°℞♓	
direct	10837 Oct 25 02:09	22°♓12'32	
	10837 Dec 01 23:51	0°♈	
	10838 Jan 29 04:51	0°♉	
	10838 Mar 14 20:05	0°♊	
asc. node	10838 Apr 14 19:47	22°♊50'35	
	10838 Apr 24 05:35	0°♋	
	10838 Jun 01 19:55	0°♌	
	10838 Jul 10 01:34	0°♍	
	10838 Aug 18 00:22	0°♎	
evening set	10838 Sep 26 21:13	29°♎34'39	
	10838 Sep 27 11:12	0°♏	
	10838 Nov 08 21:08	0°♐	
conjunction	10838 Nov 22 06:44	9°♐10'48	0°51'16
minimum elong	10838 Nov 22 08:20	9°♐13'32	0°51'47
max. Earth dist.	10838 Dec 18 11:26	26°♐45'40	2.59053 AU
	10838 Dec 23 09:03	0°♑	
morning rise	10839 Jan 11 06:04	12°♑20'31	
	10839 Feb 07 19:07	0°♒	
desc. node	10839 Mar 08 00:49	17°♒42'31	
	10839 Mar 28 00:20	0°♓	
	10839 May 17 12:52	0°♈	
	10839 Jul 12 13:07	0°♉	
retrograde	10839 Sep 22 20:31	21°♉44'25	
opposition	10839 Oct 27 22:59	14°♉32'08	-5°21'11
greatest brilliancy	10839 Oct 29 14:56	13°♉56'45	-2.1m
min. Earth dist.	10839 Nov 05 13:06	11°♉30'48	0.50705 AU
direct	10839 Dec 05 08:07	5°♉43'11	
	10840 Feb 11 22:09	0°♊	
asc. node	10840 Mar 01 23:22	11°♊52'35	
	10840 Mar 28 08:48	0°♋	
	10840 May 07 23:53	0°♌	
	10840 Jun 16 13:30	0°♍	
	10840 Jul 26 16:33	0°♎	
	10840 Sep 06 06:27	0°♏	
	10840 Oct 19 16:25	0°♐	
evening set	10840 Nov 14 19:23	17°♐28'11	
	10840 Dec 03 21:13	0°♑	
conjunction	10841 Jan 01 20:08	18°♑44'01	0°11'10
minimum elong	10841 Jan 01 20:31	18°♑44'39	0°11'44
behind sun begin	10841 Jan 01 07:22	18°♑23'32	
behind sun end	10841 Jan 02 09:41	19°♑05'46	
max. Earth dist.	10841 Jan 11 06:53	24°♑47'18	2.66400 AU
	10841 Jan 19 10:51	0°♒	
desc. node	10841 Jan 22 17:53	2°♒05'49	
morning rise	10841 Feb 15 14:25	17°♒13'45	
	10841 Mar 07 20:13	0°♓	
	10841 Apr 24 15:41	0°♈	
	10841 Jun 11 21:05	0°♉	
	10841 Jul 31 05:26	0°♊	
	10841 Sep 22 17:37	0°♋	
retrograde	10841 Dec 01 03:32	22°♋04'17	
opposition	10841 Dec 31 07:00	17°♋00'31	-1°20'54
greatest brilliancy	10841 Dec 31 14:50	16°♋55'05	-3.0m
min. Earth dist.	10842 Jan 04 20:49	15°♋44'42	0.37840 AU
asc. node	10842 Jan 18 04:01	12°♋38'45	
direct	10842 Jan 31 12:23	11°♋25'30	
	10842 Mar 30 03:46	0°♌	
	10842 May 17 20:26	0°♍	
	10842 Jul 01 09:16	0°♎	
	10842 Aug 14 21:27	0°♏	
	10842 Sep 29 09:39	0°♐	
	10842 Nov 15 00:24	0°♑	
desc. node	10842 Dec 10 14:43	16°♑15'51	
evening set	10842 Dec 23 24:00	24°♑44'30	
	10843 Jan 01 07:31	0°♒	
max. Earth dist.	10843 Feb 02 20:29	20°♒35'57	2.68237 AU
conjunction	10843 Feb 06 16:16	23°♒01'32	-0°29'49
minimum elong	10843 Feb 06 15:27	23°♒00'14	0°29'25
	10843 Feb 17 15:37	0°♓	
morning rise	10843 Mar 22 00:07	20°♓41'38	
	10843 Apr 05 10:18	0°♈	
	10843 May 21 06:19	0°♉	

	10843 Jul 05 00:28	0°♊	
	10843 Aug 17 18:07	0°♋	
	10843 Sep 29 20:42	0°♌	
	10843 Nov 12 16:39	0°♍	
asc. node	10843 Dec 06 05:11	15°♍02'37	
	10844 Jan 02 02:35	0°♎	
retrograde	10844 Feb 16 15:48	12°♎41'59	
min. Earth dist.	10844 Mar 13 12:59	8°♎11'06	0.41007 AU
greatest brilliancy	10844 Mar 19 16:40	6°♎15'26	-2.7m
opposition	10844 Mar 21 07:37	5°♎44'35	5°54'21
	10844 Apr 18 22:19	30°℞♍	
direct	10844 Apr 21 03:20	29°♍58'04	
	10844 Apr 23 08:34	0°♎	
	10844 Jul 14 12:08	0°♏	
	10844 Sep 04 21:42	0°♐	
	10844 Oct 24 18:44	0°♑	
desc. node	10844 Oct 27 16:22	1°♑45'55	
	10844 Dec 12 16:44	0°♒	
evening set	10845 Jan 27 16:42	28°♒47'37	
	10845 Jan 29 14:20	0°♓	
max. Earth dist.	10845 Feb 24 11:45	16°♓34'46	2.64560 AU
conjunction	10845 Mar 13 04:15	27°♓25'57	-1°00'13
minimum elong	10845 Mar 13 03:15	27°♓24'19	1°00'07
	10845 Mar 17 02:12	0°♈	
morning rise	10845 Apr 27 10:15	27°♈38'42	
	10845 Apr 30 21:06	0°♉	
	10845 Jun 12 21:23	0°♊	
	10845 Jul 24 06:23	0°♋	
	10845 Sep 02 09:00	0°♌	
	10845 Oct 11 20:51	0°♍	
asc. node	10845 Oct 23 00:09	8°♍26'21	
	10845 Nov 20 20:51	0°♎	
	10846 Jan 02 11:16	0°♏	
	10846 Feb 23 20:58	0°♐	
retrograde	10846 Apr 07 09:08	10°♐42'34	
min. Earth dist.	10846 May 08 22:41	3°♐56'04	0.54600 AU
greatest brilliancy	10846 May 15 00:51	1°♐35'59	-1.9m
opposition	10846 May 16 02:53	1°♐11'00	4°24'34
	10846 May 19 05:59	30°℞♏	
direct	10846 Jun 20 21:39	23°♏13'24	
	10846 Jul 27 00:03	0°♐	
desc. node	10846 Sep 14 21:56	21°♐52'35	
	10846 Sep 30 10:43	0°♑	
	10846 Nov 22 12:59	0°♒	
	10847 Jan 10 23:49	0°♓	
	10847 Feb 26 19:37	0°♈	
evening set	10847 Mar 05 18:12	4°♈35'17	
max. Earth dist.	10847 Mar 23 11:16	16°♈27'52	2.55631 AU
	10847 Apr 12 04:52	0°♉	
conjunction	10847 Apr 22 14:23	7°♉15'38	-1°07'34
minimum elong	10847 Apr 22 14:56	7°♉16'36	1°07'53
	10847 May 24 08:33	0°♊	
morning rise	10847 Jun 14 08:32	15°♊29'06	
	10847 Jul 03 15:33	0°♋	
	10847 Aug 11 15:19	0°♌	
asc. node	10847 Sep 09 17:05	22°♌42'10	
	10847 Sep 19 01:05	0°♍	
	10847 Oct 27 18:18	0°♎	
	10847 Dec 06 21:31	0°♏	
	10848 Jan 19 00:48	0°♐	
	10848 Mar 09 03:53	0°♑	
retrograde	10848 May 14 10:57	20°♑52'20	
min. Earth dist.	10848 Jun 20 06:59	12°♑19'01	0.64598 AU
opposition	10848 Jun 23 22:08	10°♑52'26	1°25'28
greatest brilliancy	10848 Jun 23 17:56	10°♑56'35	-1.5m
direct	10848 Aug 02 05:16	1°♑40'50	
desc. node	10848 Aug 02 03:48	1°♑40'50	
	10848 Oct 27 18:54	0°♒	
	10848 Dec 20 17:11	0°♓	
	10849 Feb 06 20:37	0°♈	
	10849 Mar 23 09:43	0°♉	
evening set	10849 Apr 18 02:34	18°♉14'50	
max. Earth dist.	10849 May 03 07:17	29°♉20'31	2.42615 AU
	10849 May 04 04:41	0°♊	
	10849 Jun 12 22:15	0°♋	
conjunction	10849 Jun 14 20:49	1°♋29'42	-0°29'31
minimum elong	10849 Jun 14 23:04	1°♋34'03	0°30'05
	10849 Jul 21 08:47	0°♌	
asc. node	10849 Jul 27 11:22	4°♌49'06	
morning rise	10849 Aug 23 10:16	26°♌07'28	
	10849 Aug 28 08:05	0°♍	
	10849 Oct 05 17:11	0°♎	
	10849 Nov 14 09:26	0°♏	
	10849 Dec 26 06:34	0°♐	
	10850 Feb 09 13:22	0°♑	
	10850 Apr 02 06:47	0°♒	
retrograde	10850 Jun 17 15:58	24°♒31'03	
desc. node	10850 Jun 20 05:19	24°♒28'34	
opposition	10850 Jul 28 04:35	14°♒48'14	-1°18'26
greatest brilliancy	10850 Jul 28 04:05	14°♒48'44	-1.3m
min. Earth dist.	10850 Jul 28 08:08	14°♒44'43	0.68315 AU
direct	10850 Sep 07 09:05	4°♒57'31	
	10850 Nov 25 09:30	0°♓	
	10851 Jan 16 23:46	0°♈	
	10851 Mar 03 16:34	0°♉	
	10851 Apr 14 15:06	0°♊	
	10851 May 24 04:05	0°♋	
asc. node	10851 Jun 14 07:37	16°♋31'29	
evening set	10851 Jun 19 03:21	20°♋19'29	
	10851 Jul 01 09:04	0°♌	
	10851 Aug 08 05:26	0°♍	
conjunction	10851 Aug 29 19:54	16°♍58'15	0°49'17
minimum elong	10851 Aug 29 16:09	16°♍50'56	0°49'03
	10851 Sep 15 15:07	0°♎	
max. Earth dist.	10851 Oct 22 09:26	27°♎46'43	2.41023 AU
	10851 Oct 25 09:36	0°♏	
morning rise	10851 Nov 06 07:54	8°♏43'56	
	10851 Dec 06 04:24	0°♐	
	10852 Jan 19 12:09	0°♑	
	10852 Mar 07 01:26	0°♒	
	10852 Apr 29 04:35	0°♓	
desc. node	10852 May 07 01:20	3°♓58'12	
retrograde	10852 Jul 22 03:17	27°♓23'25	
opposition	10852 Aug 30 11:10	18°♓20'54	-3°38'03
greatest brilliancy	10852 Aug 30 21:56	18°♓10'25	-1.4m
min. Earth dist.	10852 Sep 03 10:08	16°♓48'29	0.65405 AU
direct	10852 Oct 11 00:26	8°♓18'05	
	10852 Dec 19 17:45	0°♈	
	10853 Feb 08 09:23	0°♉	
	10853 Mar 23 15:31	0°♊	
asc. node	10853 May 01 09:59	29°♊06'39	
	10853 May 02 13:41	0°♋	
	10853 Jun 09 22:12	0°♌	
	10853 Jul 17 22:50	0°♍	
	10853 Aug 25 15:46	0°♎	
evening set	10853 Sep 02 00:49	5°♎36'20	
	10853 Oct 04 20:01	0°♏	
conjunction	10853 Nov 02 18:10	20°♏44'53	1°02'08
minimum elong	10853 Nov 02 19:30	20°♏47'12	1°02'33

	10853 Nov 15 23:38	0°♐	
max. Earth dist.	10853 Dec 06 22:27	14°♐21'44	2.54754 AU
morning rise	10853 Dec 26 08:18	27°♐22'21	
	10853 Dec 30 07:36	0°♑	
	10854 Feb 14 19:55	0°♒	
desc. node	10854 Mar 24 17:30	23°♒24'19	
	10854 Apr 04 17:08	0°♓	
	10854 May 27 10:40	0°♈	
	10854 Aug 03 21:33	0°♉	
retrograde	10854 Sep 02 11:26	4°♉35'13	
	10854 Sep 29 17:39	30°℞♈	
opposition	10854 Oct 09 03:36	26°♈42'09	-5°13'39
greatest brilliancy	10854 Oct 10 12:35	26°♈11'35	-1.8m
min. Earth dist.	10854 Oct 16 17:25	23°♈54'23	0.55964 AU
direct	10854 Nov 18 01:31	17°♈13'24	
	10855 Jan 05 09:11	0°♉	
	10855 Feb 26 00:41	0°♊	
asc. node	10855 Mar 19 15:14	14°♊57'24	
	10855 Apr 09 05:54	0°♋	
	10855 May 18 16:06	0°♌	
	10855 Jun 26 11:48	0°♍	
	10855 Aug 04 23:48	0°♎	
	10855 Sep 14 24:00	0°♏	
	10855 Oct 27 22:10	0°♐	
evening set	10855 Oct 29 05:54	0°♐54'10	
	10855 Dec 11 18:27	0°♑	
conjunction	10855 Dec 18 18:38	4°♑35'14	0°27'35
minimum elong	10855 Dec 18 19:37	4°♑36'50	0°28'10
max. Earth dist.	10856 Jan 03 05:07	14°♑36'45	2.64174 AU
	10856 Jan 27 04:46	0°♒	
morning rise	10856 Feb 03 00:32	4°♒20'27	
desc. node	10856 Feb 09 08:58	8°♒22'03	
	10856 Mar 14 18:53	0°♓	
	10856 May 02 08:04	0°♈	
	10856 Jun 21 08:35	0°♉	
	10856 Aug 14 11:54	0°♊	
retrograde	10856 Oct 31 06:15	25°♊12'26	
opposition	10856 Dec 02 04:07	19°♊20'23	-3°59'55
greatest brilliancy	10856 Dec 03 12:07	18°♊55'27	-2.6m
min. Earth dist.	10856 Dec 10 03:16	16°♊52'18	0.42138 AU
direct	10857 Jan 05 17:30	12°♊19'11	
asc. node	10857 Feb 03 19:10	17°♊53'18	
	10857 Mar 02 02:28	0°♋	
	10857 Apr 18 14:43	0°♌	
	10857 May 30 23:14	0°♍	
	10857 Jul 11 20:44	0°♎	
	10857 Aug 23 18:42	0°♏	
	10857 Oct 07 05:22	0°♐	
	10857 Nov 22 03:25	0°♑	
evening set	10857 Dec 09 11:18	11°♑08'01	
desc. node	10857 Dec 27 04:05	22°♑25'57	
	10858 Jan 08 01:35	0°♒	
conjunction	10858 Jan 24 01:07	10°♒08'33	-0°14'43
minimum elong	10858 Jan 24 00:41	10°♒07'51	0°14'14
behind sun begin	10858 Jan 23 16:17	9°♒54'33	
behind sun end	10858 Jan 24 09:05	10°♒21'10	
max. Earth dist.	10858 Jan 25 06:22	10°♒54'56	2.68176 AU
	10858 Feb 24 08:29	0°♓	
morning rise	10858 Mar 08 13:41	7°♓45'42	
	10858 Apr 12 10:14	0°♈	
	10858 May 28 23:02	0°♉	
	10858 Jul 13 22:08	0°♊	
	10858 Aug 28 13:44	0°♋	
	10858 Oct 13 23:50	0°♌	
	10858 Dec 05 19:04	0°♍	
asc. node	10858 Dec 22 20:50	7°♍01'01	
retrograde	10859 Jan 20 15:34	12°♍20'54	
min. Earth dist.	10859 Feb 16 07:22	8°♍02'04	0.37276 AU
opposition	10859 Feb 20 15:19	6°♍49'47	4°17'46
greatest brilliancy	10859 Feb 19 20:40	7°♍02'47	-3.0m
direct	10859 Mar 21 22:29	1°♍51'07	
	10859 Jun 08 09:08	0°♎	
	10859 Jul 29 00:23	0°♏	
	10859 Sep 15 10:03	0°♐	
	10859 Nov 02 14:46	0°♑	
desc. node	10859 Nov 14 04:58	7°♑12'57	
	10859 Dec 20 17:39	0°♒	
evening set	10860 Jan 14 21:28	15°♒47'35	
	10860 Feb 06 08:05	0°♓	
max. Earth dist.	10860 Feb 16 10:48	6°♓27'03	2.66639 AU
conjunction	10860 Feb 28 02:27	13°♓55'30	-0°50'22
minimum elong	10860 Feb 28 01:21	13°♓53'44	0°50'09
	10860 Mar 23 21:13	0°♈	
morning rise	10860 Apr 12 03:16	12°♈40'40	
	10860 May 08 00:04	0°♉	
	10860 Jun 20 13:36	0°♊	
	10860 Aug 01 15:17	0°♋	
	10860 Sep 11 12:34	0°♌	
	10860 Oct 21 21:57	0°♍	
asc. node	10860 Nov 08 19:17	13°♍09'24	
	10860 Dec 02 06:48	0°♎	
	10861 Jan 17 14:45	0°♏	
retrograde	10861 Mar 20 21:15	21°♏22'12	
min. Earth dist.	10861 Apr 19 00:26	15°♏29'24	0.49339 AU
greatest brilliancy	10861 Apr 25 16:02	13°♏03'25	-2.2m
opposition	10861 Apr 27 04:34	12°♏29'48	5°26'16
direct	10861 May 31 03:42	5°♏16'05	
	10861 Aug 16 04:27	0°♐	
desc. node	10861 Oct 01 09:22	24°♐50'55	
	10861 Oct 10 10:36	0°♑	
	10861 Nov 30 08:33	0°♒	
	10862 Jan 18 01:03	0°♓	
evening set	10862 Feb 18 20:30	20°♓19'04	
	10862 Mar 05 16:11	0°♈	
max. Earth dist.	10862 Mar 12 04:12	4°♈17'41	2.59716 AU
conjunction	10862 Apr 05 20:26	20°♈52'00	-1°08'36
minimum elong	10862 Apr 05 20:09	20°♈51'30	1°08'45
	10862 Apr 19 04:07	0°♉	
morning rise	10862 May 24 17:11	25°♉01'50	
	10862 May 31 14:43	0°♊	
	10862 Jul 11 06:25	0°♋	
	10862 Aug 19 14:43	0°♌	
asc. node	10862 Sep 26 12:11	29°♌21'30	
	10862 Sep 27 08:03	0°♍	
	10862 Nov 05 08:33	0°♎	
	10862 Dec 15 23:29	0°♏	
	10863 Jan 29 12:07	0°♐	
	10863 Mar 28 19:05	0°♑	
retrograde	10863 May 01 10:26	6°♑37'59	
	10863 Jun 02 00:12	30°℞♐	
min. Earth dist.	10863 Jun 05 09:21	28°♐41'41	0.61381 AU
opposition	10863 Jun 10 11:36	26°♐40'58	2°34'26
greatest brilliancy	10863 Jun 10 00:49	26°♐51'37	-1.6m
direct	10863 Jul 18 15:09	17°♐53'00	
desc. node	10863 Aug 19 15:13	23°♐12'08	
	10863 Sep 07 19:23	0°♑	
	10863 Nov 08 01:32	0°♒	
	10863 Dec 29 14:56	0°♓	
	10864 Feb 15 02:25	0°♈	
evening set	10864 Mar 30 09:52	29°♈55'16	

	10864 Mar 30 12:35	0°♉	
max. Earth dist.	10864 Apr 13 09:19	9°♉44'41	2.47987 AU
	10864 May 11 10:05	0°♊	
conjunction	10864 May 22 04:54	7°♊58'50	-0°51'30
minimum elong	10864 May 22 07:04	8°♊02'52	0°52'01
	10864 Jun 20 08:01	0°♋	
morning rise	10864 Jul 23 12:04	25°♋43'48	
	10864 Jul 28 22:46	0°♌	
asc. node	10864 Aug 13 04:54	12°♌00'04	
	10864 Sep 05 01:08	0°♍	
greatest brilliancy	10864 Sep 05 22:06	0°♍41'15	1.2m
	10864 Oct 13 11:56	0°♎	
	10864 Nov 22 05:52	0°♏	
	10865 Jan 03 08:56	0°♐	
	10865 Feb 18 14:45	0°♑	
	10865 Apr 16 08:50	0°♒	
retrograde	10865 Jun 04 11:10	11°♒58'42	
desc. node	10865 Jul 06 18:57	5°♒21'34	
min. Earth dist.	10865 Jul 13 19:02	2°♒38'03	0.67648 AU
opposition	10865 Jul 15 03:14	2°♒06'04	-0°17'41
greatest brilliancy	10865 Jul 15 02:48	2°♒06'30	-1.3m
	10865 Jul 20 11:43	30°℞♑	
direct	10865 Aug 24 18:30	22°♑27'34	
	10865 Oct 02 21:57	0°♒	
	10865 Dec 06 00:34	0°♓	
	10866 Jan 25 04:48	0°♈	
	10866 Mar 11 07:09	0°♉	
	10866 Apr 22 03:02	0°♊	
evening set	10866 May 22 23:48	23°♊16'55	
	10866 May 31 16:57	0°♋	
asc. node	10866 Jul 01 01:40	23°♋45'27	
	10866 Jul 08 23:13	0°♌	
conjunction	10866 Jul 29 15:41	16°♌24'00	0°20'30
minimum elong	10866 Jul 29 13:29	16°♌19'37	0°20'01
	10866 Aug 15 19:47	0°♍	
max. Earth dist.	10866 Aug 18 07:27	1°♍57'52	2.36458 AU
	10866 Sep 23 04:02	0°♎	
morning rise	10866 Oct 11 01:28	13°♎41'26	
	10866 Nov 01 20:04	0°♏	
	10866 Dec 13 13:32	0°♐	
	10867 Jan 27 01:24	0°♑	
	10867 Mar 16 12:57	0°♒	
	10867 May 13 02:57	0°♓	
desc. node	10867 May 24 16:50	4°♓44'33	
retrograde	10867 Jul 08 21:30	14°♓36'43	
opposition	10867 Aug 17 20:23	5°♓15'47	-2°47'24
greatest brilliancy	10867 Aug 18 00:58	5°♓11'17	-1.3m
min. Earth dist.	10867 Aug 20 07:34	4°♓17'42	0.67344 AU
	10867 Aug 31 23:13	30°℞♒	
direct	10867 Sep 28 11:00	25°♒14'11	
	10867 Oct 28 07:10	0°♓	
	10868 Jan 01 12:18	0°♈	
	10868 Feb 18 07:37	0°♉	
	10868 Mar 31 20:39	0°♊	
	10868 May 10 13:26	0°♋	
asc. node	10868 May 18 01:43	5°♋49'54	
	10868 Jun 17 19:25	0°♌	
greatest brilliancy	10868 Jun 29 04:44	9°♌01'09	1.2m
	10868 Jul 25 17:20	0°♍	
evening set	10868 Aug 04 07:29	7°♍32'22	
	10868 Sep 02 06:10	0°♎	
conjunction	10868 Oct 11 00:47	29°♎08'04	1°06'25
minimum elong	10868 Oct 11 00:39	29°♎07'50	1°06'40
	10868 Oct 12 05:04	0°♏	
max. Earth dist.	10868 Nov 23 03:07	29°♏59'18	2.49691 AU
	10868 Nov 23 03:31	0°♐	
morning rise	10868 Dec 08 14:43	10°♐40'38	
	10869 Jan 06 08:56	0°♑	
	10869 Feb 22 02:25	0°♒	
desc. node	10869 Apr 10 09:25	28°♒29'33	
	10869 Apr 13 00:06	0°♓	
	10869 Jun 08 17:12	0°♈	
retrograde	10869 Aug 15 17:02	19°♈23'53	
opposition	10869 Sep 22 14:55	10°♈58'56	-4°45'15
greatest brilliancy	10869 Sep 23 14:46	10°♈36'14	-1.6m
min. Earth dist.	10869 Sep 28 20:46	8°♈36'43	0.60390 AU
direct	10869 Nov 02 11:42	1°♈08'25	
	10870 Jan 21 14:46	0°♉	
	10870 Mar 08 18:29	0°♊	
asc. node	10870 Apr 05 04:33	19°♊52'29	
	10870 Apr 18 15:40	0°♋	
	10870 May 27 11:26	0°♌	
	10870 Jul 04 20:58	0°♍	
	10870 Aug 12 23:16	0°♎	
	10870 Sep 22 13:35	0°♏	
evening set	10870 Oct 09 08:48	12°♏01'14	
	10870 Nov 04 02:40	0°♐	
conjunction	10870 Dec 02 08:30	19°♐09'47	0°43'12
minimum elong	10870 Dec 02 09:58	19°♐12'15	0°43'46
	10870 Dec 18 16:12	0°♑	
max. Earth dist.	10870 Dec 24 12:19	3°♑50'15	2.61097 AU
morning rise	10871 Jan 19 18:39	20°♑52'52	
	10871 Feb 03 01:00	0°♒	
desc. node	10871 Feb 26 01:36	14°♒31'58	
	10871 Mar 22 22:55	0°♓	
	10871 May 11 13:54	0°♈	
	10871 Jul 03 14:34	0°♉	
	10871 Sep 12 04:08	0°♊	
retrograde	10871 Oct 05 19:53	3°♊06'14	
	10871 Oct 28 04:06	30°℞♉	
opposition	10871 Nov 08 21:21	26°♉20'30	-5°08'45
greatest brilliancy	10871 Nov 10 14:22	25°♉45'31	-2.2m
min. Earth dist.	10871 Nov 17 17:15	23°♉20'51	0.47626 AU
direct	10871 Dec 16 04:04	18°♉02'56	
	10872 Jan 29 23:51	0°♊	
asc. node	10872 Feb 21 09:39	12°♊02'13	
	10872 Mar 20 10:09	0°♋	
	10872 May 01 07:51	0°♌	
	10872 Jun 10 12:58	0°♍	
	10872 Jul 21 02:44	0°♎	
	10872 Sep 01 01:03	0°♏	
	10872 Oct 14 17:53	0°♐	
evening set	10872 Nov 24 02:12	26°♐42'38	
	10872 Nov 29 03:25	0°♑	
conjunction	10873 Jan 10 01:50	26°♑59'19	0°01'30
minimum elong	10873 Jan 10 01:52	26°♑59'23	0°02'03
behind sun begin	10873 Jan 09 07:07	26°♑29'29	
behind sun end	10873 Jan 10 20:37	27°♑29'16	
desc. node	10873 Jan 12 19:24	28°♑43'54	
	10873 Jan 14 19:09	0°♒	
max. Earth dist.	10873 Jan 16 10:15	1°♒02'16	2.67265 AU
morning rise	10873 Feb 23 06:18	25°♒02'06	
	10873 Mar 03 02:48	0°♓	
	10873 Apr 19 14:32	0°♈	
	10873 Jun 06 02:31	0°♉	
	10873 Jul 23 21:39	0°♊	
	10873 Sep 11 04:51	0°♋	
	10873 Nov 07 17:59	0°♌	
retrograde	10873 Dec 19 21:51	9°♌49'33	

asc. node	10874 Jan 08 13:09	7°♌25'53	
opposition	10874 Jan 18 12:30	4°♌55'51	0°46'52
greatest brilliancy	10874 Jan 18 13:01	4°♌55'31	-3.1m
min. Earth dist.	10874 Jan 20 02:26	4°♌30'43	0.36654 AU
	10874 Feb 13 08:06	30°℞♋	
direct	10874 Feb 17 08:37	29°♋53'27	
	10874 Feb 21 09:04	0°♌	
	10874 May 07 06:51	0°♍	
	10874 Jun 23 20:55	0°♎	
	10874 Aug 08 17:38	0°♏	
	10874 Sep 24 00:18	0°♐	
	10874 Nov 10 01:49	0°♑	
desc. node	10874 Nov 30 17:02	13°♑02'13	
	10874 Dec 27 14:51	0°♒	
evening set	10875 Jan 01 00:50	2°♒47'04	
max. Earth dist.	10875 Feb 07 19:54	26°♒41'24	2.67900 AU
	10875 Feb 13 00:49	0°♓	
conjunction	10875 Feb 14 10:06	0°♓52'58	-0°38'00
minimum elong	10875 Feb 14 09:07	0°♓51'25	0°37'39
morning rise	10875 Mar 29 20:36	28°♓47'37	
	10875 Mar 31 17:11	0°♈	
	10875 May 16 06:32	0°♉	
	10875 Jun 29 13:04	0°♊	
	10875 Aug 11 13:40	0°♋	
	10875 Sep 22 15:44	0°♌	
	10875 Nov 03 17:11	0°♍	
asc. node	10875 Nov 26 11:47	15°♍42'58	
	10875 Dec 18 11:54	0°♎	
retrograde	10876 Feb 29 17:12	28°♎17'58	
min. Earth dist.	10876 Mar 27 12:39	23°♎20'28	0.43865 AU
greatest brilliancy	10876 Apr 03 03:27	21°♎07'12	-2.5m
opposition	10876 Apr 04 21:10	20°♎31'47	6°01'30
direct	10876 May 06 21:10	14°♎12'02	
	10876 Jul 02 21:44	0°♏	
	10876 Aug 28 23:47	0°♐	
desc. node	10876 Oct 17 20:23	29°♐09'35	
	10876 Oct 19 06:10	0°♑	
	10876 Dec 07 18:30	0°♒	
	10877 Jan 24 22:17	0°♓	
evening set	10877 Feb 04 14:51	6°♓47'37	
max. Earth dist.	10877 Mar 01 23:43	23°♓08'28	2.63071 AU
	10877 Mar 12 11:22	0°♈	
conjunction	10877 Mar 21 11:07	5°♈55'53	-1°04'29
minimum elong	10877 Mar 21 10:17	5°♈54'31	1°04'30
	10877 Apr 26 04:07	0°♉	
morning rise	10877 May 06 17:17	7°♉16'24	
	10877 Jun 07 23:37	0°♊	
	10877 Jul 19 02:13	0°♋	
	10877 Aug 27 21:23	0°♌	
	10877 Oct 06 01:05	0°♍	
asc. node	10877 Oct 13 07:42	5°♍34'26	
	10877 Nov 14 13:27	0°♎	
	10877 Dec 26 02:43	0°♏	
	10878 Feb 11 19:11	0°♐	
retrograde	10878 Apr 16 12:25	21°♐01'28	
min. Earth dist.	10878 May 19 08:34	13°♐48'18	0.57261 AU
opposition	10878 May 25 20:28	11°♐16'44	3°44'48
greatest brilliancy	10878 May 25 00:27	11°♐36'12	-1.8m
direct	10878 Jul 01 13:59	2°♐58'49	
desc. node	10878 Sep 05 02:05	21°♐28'10	
	10878 Sep 22 20:08	0°♑	
	10878 Nov 16 22:58	0°♒	
	10879 Jan 06 01:34	0°♓	
	10879 Feb 22 02:48	0°♈	
evening set	10879 Mar 14 16:06	13°♈40'24	
max. Earth dist.	10879 Mar 30 16:33	24°♈34'38	2.53088 AU
	10879 Apr 07 12:49	0°♉	
conjunction	10879 May 02 22:05	17°♉54'48	-1°04'02
minimum elong	10879 May 02 23:14	17°♉56'53	1°04'26
	10879 May 19 14:49	0°♊	
morning rise	10879 Jun 27 13:18	29°♊03'26	
	10879 Jun 28 19:02	0°♋	
	10879 Aug 06 15:38	0°♌	
asc. node	10879 Aug 31 00:49	19°♌05'43	
	10879 Sep 13 22:30	0°♍	
	10879 Oct 22 12:31	0°♎	
	10879 Dec 01 10:20	0°♏	
	10880 Jan 13 00:38	0°♐	
	10880 Mar 01 01:38	0°♑	
retrograde	10880 May 22 04:52	29°♑04'28	
min. Earth dist.	10880 Jun 28 23:42	20°♑13'12	0.65956 AU
opposition	10880 Jul 01 19:33	19°♑05'46	0°46'22
greatest brilliancy	10880 Jul 01 17:51	19°♑07'27	-1.4m
desc. node	10880 Jul 23 06:28	11°♑51'46	
direct	10880 Aug 10 16:02	9°♑43'16	
	10880 Oct 19 18:55	0°♒	
	10880 Dec 15 02:21	0°♓	
	10881 Feb 01 21:00	0°♈	
	10881 Mar 18 14:51	0°♉	
evening set	10881 Apr 29 19:23	0°♊16'29	
	10881 Apr 29 10:28	0°♊	
max. Earth dist.	10881 May 19 04:34	14°♊46'09	2.39705 AU
	10881 Jun 08 03:02	0°♋	
conjunction	10881 Jun 29 23:16	16°♋59'26	-0°12'48
minimum elong	10881 Jun 30 00:32	17°♋01'54	0°13'22
behind sun begin	10881 Jun 29 08:10	16°♋29'53	
behind sun end	10881 Jun 30 16:54	17°♋33'57	
	10881 Jul 16 12:05	0°♌	
asc. node	10881 Jul 17 18:08	0°♌59'18	
	10881 Aug 23 10:18	0°♍	
morning rise	10881 Sep 10 12:21	14°♍13'56	
	10881 Sep 30 18:41	0°♎	
	10881 Nov 09 09:50	0°♏	
	10881 Dec 21 04:01	0°♐	
	10882 Feb 04 00:28	0°♑	
	10882 Mar 26 02:08	0°♒	
	10882 Jun 05 20:21	0°♓	
desc. node	10882 Jun 10 07:06	0°♓50'03	
retrograde	10882 Jun 25 06:38	2°♓08'04	
	10882 Jul 13 12:09	30°℞♒	
opposition	10882 Aug 04 15:58	22°♒32'07	-1°52'30
greatest brilliancy	10882 Aug 04 16:35	22°♒31'30	-1.3m
min. Earth dist.	10882 Aug 05 15:11	22°♒09'11	0.68251 AU
direct	10882 Sep 15 02:06	12°♒36'23	
	10882 Nov 16 23:32	0°♓	
	10883 Jan 11 04:54	0°♈	
	10883 Feb 26 13:06	0°♉	
	10883 Apr 09 16:34	0°♊	
	10883 May 19 06:54	0°♋	
asc. node	10883 Jun 04 16:32	12°♋47'33	
	10883 Jun 26 11:57	0°♌	
evening set	10883 Jul 05 19:54	7°♌23'54	
	10883 Aug 03 08:22	0°♍	
	10883 Sep 10 18:28	0°♎	
conjunction	10883 Sep 15 11:21	3°♎36'42	0°59'40
minimum elong	10883 Sep 15 08:37	3°♎31'28	0°59'37
	10883 Oct 20 13:31	0°♏	
max. Earth dist.	10883 Nov 06 00:58	12°♏01'11	2.44161 AU
morning rise	10883 Nov 19 07:30	21°♏31'20	

	10883 Dec 01 08:29	0°♐	
	10884 Jan 14 13:43	0°♑	
	10884 Mar 01 16:56	0°♒	
	10884 Apr 22 06:02	0°♓	
desc. node	10884 Apr 27 02:29	2°♓37'00	
	10884 Jun 28 00:04	0°♈	
retrograde	10884 Jul 30 17:03	5°♈28'40	
	10884 Aug 29 12:56	30°℞♓	
opposition	10884 Sep 07 14:33	26°♓38'08	-4°05'02
greatest brilliancy	10884 Sep 08 05:36	26°♓23'34	-1.4m
min. Earth dist.	10884 Sep 12 09:18	24°♓47'20	0.63892 AU
direct	10884 Oct 19 00:19	16°♓37'35	
	10884 Dec 09 20:47	0°♈	
	10885 Feb 02 01:23	0°♉	
	10885 Mar 18 02:23	0°♊	
asc. node	10885 Apr 21 19:45	25°♊47'49	
	10885 Apr 27 07:36	0°♋	
	10885 Jun 04 19:26	0°♌	
	10885 Jul 12 22:27	0°♍	
	10885 Aug 20 17:41	0°♎	
evening set	10885 Sep 16 12:20	20°♎05'46	
	10885 Sep 30 00:09	0°♏	
	10885 Nov 11 05:49	0°♐	
conjunction	10885 Nov 14 03:25	2°♐00'22	0°56'25
minimum elong	10885 Nov 14 05:00	2°♐03'07	0°56'55
max. Earth dist.	10885 Dec 13 19:04	22°♐09'07	2.57224 AU
	10885 Dec 25 14:23	0°♑	
morning rise	10886 Jan 04 14:08	6°♑34'03	
	10886 Feb 10 00:02	0°♒	
desc. node	10886 Mar 14 17:50	20°♒25'57	
	10886 Mar 30 10:15	0°♓	
	10886 May 20 16:41	0°♈	
	10886 Jul 18 20:47	0°♉	
retrograde	10886 Sep 13 15:17	14°♉32'40	
opposition	10886 Oct 19 12:01	7°♉01'09	-5°21'05
greatest brilliancy	10886 Oct 21 01:29	6°♉27'14	-1.9m
min. Earth dist.	10886 Oct 27 17:23	4°♉03'23	0.53124 AU
	10886 Nov 10 01:51	30°℞♈	
direct	10886 Nov 27 16:00	27°♈51'57	
	10886 Dec 15 19:42	0°♉	
	10887 Feb 17 22:16	0°♊	
asc. node	10887 Mar 09 23:11	13°♊11'39	
	10887 Apr 02 16:43	0°♋	
	10887 May 12 17:24	0°♌	
	10887 Jun 20 21:53	0°♍	
	10887 Jul 30 16:56	0°♎	
	10887 Sep 09 23:07	0°♏	
	10887 Oct 23 02:24	0°♐	
evening set	10887 Nov 08 10:53	11°♐02'30	
	10887 Dec 07 02:00	0°♑	
conjunction	10887 Dec 27 11:45	13°♑16'22	0°18'02
minimum elong	10887 Dec 27 12:24	13°♑17'25	0°18'38
max. Earth dist.	10888 Jan 08 13:30	21°♑02'58	2.65508 AU
	10888 Jan 22 13:15	0°♒	
desc. node	10888 Jan 30 10:31	5°♒01'21	
morning rise	10888 Feb 10 20:10	12°♒15'16	
	10888 Mar 09 23:56	0°♓	
	10888 Apr 27 02:09	0°♈	
	10888 Jun 14 23:54	0°♉	
	10888 Aug 04 22:52	0°♊	
	10888 Oct 03 17:39	0°♋	
retrograde	10888 Nov 17 01:08	10°♋10'13	
opposition	10888 Dec 17 22:09	4°♋47'30	-2°41'48
greatest brilliancy	10888 Dec 18 17:25	4°♋33'25	-2.8m
min. Earth dist.	10888 Dec 24 09:07	2°♋54'59	0.39488 AU
	10889 Jan 05 08:41	30°℞♊	
direct	10889 Jan 19 14:23	28°♊35'35	
asc. node	10889 Jan 25 04:03	28°♊48'54	
	10889 Feb 02 19:26	0°♋	
	10889 Apr 08 09:59	0°♌	
	10889 May 23 07:39	0°♍	
	10889 Jul 05 10:14	0°♎	
	10889 Aug 18 02:12	0°♏	
	10889 Oct 02 01:13	0°♐	
	10889 Nov 17 07:14	0°♑	
evening set	10889 Dec 17 20:33	19°♑29'45	
desc. node	10889 Dec 17 06:36	19°♑07'36	
	10890 Jan 03 09:49	0°♒	
max. Earth dist.	10890 Jan 30 06:34	17°♒01'28	2.68323 AU
conjunction	10890 Jan 31 20:37	18°♒01'48	-0°23'44
minimum elong	10890 Jan 31 19:56	18°♒00'43	0°23'17
	10890 Feb 19 17:14	0°♓	
morning rise	10890 Mar 16 05:03	15°♓36'46	
	10890 Apr 07 15:06	0°♈	
	10890 May 23 18:41	0°♉	
	10890 Jul 08 01:02	0°♊	
	10890 Aug 21 12:49	0°♋	
	10890 Oct 04 18:54	0°♌	
	10890 Nov 19 21:39	0°♍	
asc. node	10890 Dec 13 06:36	13°♍26'50	
	10891 Jan 29 00:25	0°♎	
retrograde	10891 Feb 05 13:16	0°♎24'08	
	10891 Feb 13 00:55	30°℞♍	
min. Earth dist.	10891 Mar 03 06:32	26°♍05'59	0.39038 AU
opposition	10891 Mar 09 22:08	24°♍07'55	5°28'39
greatest brilliancy	10891 Mar 08 13:51	24°♍31'58	-2.8m
direct	10891 Apr 08 20:53	18°♍46'27	
	10891 May 24 11:25	0°♎	
	10891 Jul 21 00:02	0°♏	
	10891 Sep 09 07:22	0°♐	
	10891 Oct 28 08:35	0°♑	
desc. node	10891 Nov 04 07:21	4°♑16'25	
	10891 Dec 15 21:46	0°♒	
evening set	10892 Jan 22 18:53	23°♒43'45	
	10892 Feb 01 16:32	0°♓	
max. Earth dist.	10892 Feb 21 15:39	12°♓45'18	2.65595 AU
conjunction	10892 Mar 07 01:48	22°♓04'16	-0°56'30
minimum elong	10892 Mar 07 00:44	22°♓02'32	0°56'21
	10892 Mar 19 05:32	0°♈	
morning rise	10892 Apr 20 16:34	21°♈32'28	
	10892 May 03 04:49	0°♉	
	10892 Jun 15 11:33	0°♊	
	10892 Jul 27 04:26	0°♋	
	10892 Sep 05 15:04	0°♌	
	10892 Oct 15 11:21	0°♍	
asc. node	10892 Oct 30 02:18	10°♍57'53	
	10892 Nov 24 22:12	0°♎	
	10893 Jan 07 13:33	0°♏	
	10893 Mar 09 06:50	0°♐	
retrograde	10893 Mar 31 01:35	3°♐11'49	
	10893 Apr 21 02:04	30°℞♏	
min. Earth dist.	10893 Apr 30 13:22	26°♏49'07	0.52303 AU
greatest brilliancy	10893 May 06 23:19	24°♏24'13	-2.0m
opposition	10893 May 08 06:10	23°♏55'06	4°52'52
direct	10893 Jun 12 06:25	16°♏16'00	
	10893 Aug 05 06:13	0°♐	
desc. node	10893 Sep 21 12:42	23°♐11'55	
	10893 Oct 03 23:56	0°♑	
	10893 Nov 25 02:03	0°♒	
	10894 Jan 13 05:28	0°♓	

evening set	10894 Feb 27 06:01	28°♓50'41	
	10894 Mar 01 00:14	0°♈	
max. Earth dist.	10894 Mar 18 10:58	11°♈35'01	2.57556 AU
	10894 Apr 14 11:58	0°♉	
conjunction	10894 Apr 15 03:49	0°♉27'26	-1°08'45
minimum elong	10894 Apr 15 03:59	0°♉27'43	1°09'01
	10894 May 26 19:42	0°♊	
morning rise	10894 Jun 04 23:43	6°♊41'08	
	10894 Jul 06 07:22	0°♋	
	10894 Aug 14 11:11	0°♌	
asc. node	10894 Sep 16 18:50	25°♌55'59	
	10894 Sep 22 00:05	0°♍	
	10894 Oct 30 19:40	0°♎	
	10894 Dec 10 01:46	0°♏	
	10895 Jan 22 14:19	0°♐	
	10895 Mar 15 16:54	0°♑	
retrograde	10895 May 09 12:41	15°♑24'07	
min. Earth dist.	10895 Jun 14 13:33	7°♑06'44	0.63281 AU
opposition	10895 Jun 18 20:36	5°♑24'39	1°54'00
greatest brilliancy	10895 Jun 18 13:57	5°♑31'15	-1.5m
	10895 Jul 03 21:12	30°℞♐	
direct	10895 Jul 27 16:31	26°♐22'48	
desc. node	10895 Aug 09 19:10	27°♐22'12	
	10895 Aug 22 16:29	0°♑	
	10895 Nov 01 10:49	0°♒	
	10895 Dec 24 07:58	0°♓	
	10896 Feb 10 05:37	0°♈	
	10896 Mar 25 19:00	0°♉	
evening set	10896 Apr 09 17:29	10°♉30'10	
max. Earth dist.	10896 Apr 23 16:10	20°♉30'13	2.45040 AU
	10896 May 06 16:20	0°♊	
conjunction	10896 Jun 04 01:30	21°♊14'11	-0°40'11
minimum elong	10896 Jun 04 03:55	21°♊18'46	0°40'45
	10896 Jun 15 12:52	0°♋	
	10896 Jul 24 01:40	0°♌	
asc. node	10896 Aug 03 13:03	8°♌15'10	
morning rise	10896 Aug 09 11:23	12°♌55'57	
	10896 Aug 31 02:12	0°♍	
	10896 Oct 08 11:25	0°♎	
	10896 Nov 17 02:59	0°♏	
	10896 Dec 29 00:31	0°♐	
	10897 Feb 12 13:01	0°♑	
	10897 Apr 06 15:31	0°♒	
retrograde	10897 Jun 12 00:11	19°♒41'32	
desc. node	10897 Jun 26 21:32	18°♒14'59	
opposition	10897 Jul 22 15:30	9°♒53'51	-0°53'47
min. Earth dist.	10897 Jul 22 03:00	10°♒06'14	0.68142 AU
greatest brilliancy	10897 Jul 22 14:38	9°♒54'42	-1.3m
direct	10897 Sep 01 15:11	0°♒08'06	
	10897 Nov 29 06:21	0°♓	
	10898 Jan 19 19:18	0°♈	
	10898 Mar 06 07:22	0°♉	
	10898 Apr 17 06:00	0°♊	
	10898 May 26 20:26	0°♋	
evening set	10898 Jun 06 19:26	8°♋31'17	
asc. node	10898 Jun 21 08:44	19°♋56'19	
	10898 Jul 04 02:24	0°♌	
	10898 Aug 10 22:46	0°♍	
conjunction	10898 Aug 16 06:13	4°♍11'31	0°38'12
minimum elong	10898 Aug 16 02:33	4°♍04'17	0°37'50
	10898 Sep 18 07:18	0°♎	
max. Earth dist.	10898 Oct 05 14:06	13°♎13'35	2.38629 AU
morning rise	10898 Oct 26 09:31	28°♎49'40	
	10898 Oct 27 23:32	0°♏	
	10898 Dec 08 16:08	0°♐	
	10899 Jan 21 23:32	0°♑	
	10899 Mar 10 18:54	0°♒	
	10899 May 04 05:27	0°♓	
desc. node	10899 May 14 18:19	4°♓59'37	
retrograde	10899 Jul 16 21:42	22°♓21'07	
opposition	10899 Aug 25 13:26	13°♓09'46	-3°17'33
greatest brilliancy	10899 Aug 25 21:14	13°♓02'09	-1.3m
min. Earth dist.	10899 Aug 28 20:31	11°♓52'33	0.66400 AU
direct	10899 Oct 06 04:42	3°♓06'50	
	10899 Dec 25 07:04	0°♈	
	10900 Feb 12 15:30	0°♉	
	10900 Mar 27 14:55	0°♊	
	10900 May 06 11:28	0°♋	
asc. node	10900 May 09 09:41	2°♋15'41	
	10900 Jun 13 19:00	0°♌	
	10900 Jul 21 18:04	0°♍	
evening set	10900 Aug 21 22:36	24°♍18'34	
	10900 Aug 29 08:29	0°♎	
	10900 Oct 08 09:11	0°♏	
conjunction	10900 Oct 25 08:22	12°♏18'11	1°05'00
minimum elong	10900 Oct 25 09:16	12°♏19'48	1°05'22
	10900 Nov 19 09:09	0°♐	
max. Earth dist.	10900 Dec 02 07:11	8°♐55'28	2.52588 AU
morning rise	10900 Dec 19 22:59	20°♐54'21	
	10901 Jan 02 14:29	0°♑	
	10901 Feb 18 03:20	0°♒	
desc. node	10901 Apr 01 10:56	25°♒55'15	
	10901 Apr 08 08:14	0°♓	
	10901 Jun 01 08:08	0°♈	
retrograde	10901 Aug 26 11:45	28°♈19'40	
opposition	10901 Oct 02 18:50	20°♈11'20	-5°03'15
greatest brilliancy	10901 Oct 03 23:52	19°♈44'05	-1.7m
min. Earth dist.	10901 Oct 09 19:23	17°♈33'42	0.58061 AU
direct	10901 Nov 12 05:03	10°♈31'05	
	10902 Jan 13 13:35	0°♉	
	10902 Mar 03 06:36	0°♊	
asc. node	10902 Mar 27 14:55	17°♊13'56	
	10902 Apr 13 20:46	0°♋	
	10902 May 23 00:01	0°♌	
	10902 Jun 30 14:14	0°♍	
	10902 Aug 08 20:43	0°♎	
	10902 Sep 18 14:58	0°♏	
evening set	10902 Oct 21 23:33	23°♏33'37	
	10902 Oct 31 07:37	0°♐	
conjunction	10902 Dec 12 21:46	28°♐37'56	0°34'17
minimum elong	10902 Dec 12 22:59	28°♐39'56	0°34'52
	10902 Dec 14 23:35	0°♑	
max. Earth dist.	10902 Dec 31 07:47	10°♑41'12	2.62913 AU
morning rise	10903 Jan 29 00:32	29°♑09'29	
	10903 Jan 30 08:13	0°♒	
desc. node	10903 Feb 17 02:20	11°♒15'34	
	10903 Mar 19 00:37	0°♓	
	10903 May 06 23:19	0°♈	
	10903 Jun 27 01:16	0°♉	
	10903 Aug 23 23:37	0°♊	
retrograde	10903 Oct 21 03:55	15°♊32'40	
opposition	10903 Nov 23 00:37	9°♊16'04	-4°38'11
greatest brilliancy	10903 Nov 24 14:34	8°♊45'07	-2.4m
min. Earth dist.	10903 Dec 01 14:22	6°♊29'10	0.44530 AU
direct	10903 Dec 28 21:51	1°♊37'41	
asc. node	10904 Feb 12 19:29	14°♊18'43	
	10904 Mar 11 17:15	0°♋	
	10904 Apr 24 22:59	0°♌	
	10904 Jun 05 03:37	0°♍	

	10904 Jul 16 08:08	0°♎	
	10904 Aug 27 17:18	0°♏	
	10904 Oct 10 18:11	0°♐	
	10904 Nov 25 09:18	0°♑	
evening set	10904 Dec 04 00:05	5°♑34'11	
desc. node	10905 Jan 03 20:15	25°♑20'18	
	10905 Jan 11 03:54	0°♒	
conjunction	10905 Jan 19 03:04	5°♒03'57	-0°08'10
minimum elong	10905 Jan 19 02:49	5°♒03'33	0°07'38
behind sun begin	10905 Jan 18 10:12	4°♒37'10	
behind sun end	10905 Jan 19 19:25	5°♒29'55	
max. Earth dist.	10905 Jan 22 13:39	7°♒15'07	2.67877 AU
	10905 Feb 27 10:43	0°♓	
morning rise	10905 Mar 03 21:13	2°♓48'43	
	10905 Apr 15 16:42	0°♈	
	10905 Jun 01 15:13	0°♉	
	10905 Jul 18 07:30	0°♊	
	10905 Sep 03 06:01	0°♋	
	10905 Oct 22 11:59	0°♌	
asc. node	10905 Dec 30 21:37	28°♌03'48	
retrograde	10906 Jan 08 03:54	28°♌31'37	
min. Earth dist.	10906 Feb 05 10:12	23°♌56'03	0.36537 AU
opposition	10906 Feb 07 06:24	23°♌26'24	2°56'23
greatest brilliancy	10906 Feb 06 23:18	23°♌31'10	-3.1m
direct	10906 Mar 08 12:35	18°♌35'02	
	10906 Apr 22 06:33	0°♍	
	10906 Jun 16 02:22	0°♎	
	10906 Aug 03 02:39	0°♏	
	10906 Sep 19 10:00	0°♐	
	10906 Nov 06 01:06	0°♑	
desc. node	10906 Nov 21 19:48	9°♑53'41	
	10906 Dec 23 21:20	0°♒	
evening set	10907 Jan 09 23:57	10°♒45'32	
	10907 Feb 09 09:48	0°♓	
max. Earth dist.	10907 Feb 13 21:55	2°♓52'04	2.67308 AU
conjunction	10907 Feb 23 05:25	8°♓48'57	-0°45'32
minimum elong	10907 Feb 23 04:21	8°♓47'15	0°45'16
	10907 Mar 28 00:50	0°♈	
morning rise	10907 Apr 07 22:11	7°♈07'19	
	10907 May 12 08:59	0°♉	
	10907 Jun 25 06:23	0°♊	
	10907 Aug 06 18:14	0°♋	
	10907 Sep 17 03:07	0°♌	
	10907 Oct 28 02:50	0°♍	
asc. node	10907 Nov 17 20:39	14°♍56'27	
	10907 Dec 09 12:03	0°♎	
	10908 Jan 28 15:03	0°♏	
retrograde	10908 Mar 13 12:05	12°♏21'22	
min. Earth dist.	10908 Apr 10 13:47	6°♏53'49	0.46871 AU
greatest brilliancy	10908 Apr 17 07:23	4°♏30'39	-2.3m
opposition	10908 Apr 18 23:28	3°♏54'54	5°47'00
	10908 May 01 03:56	30°℞♎	
direct	10908 May 22 01:16	27°♎04'18	
	10908 Jun 13 09:15	0°♏	
	10908 Aug 22 04:42	0°♐	
desc. node	10908 Oct 09 00:04	26°♐49'18	
	10908 Oct 14 10:56	0°♑	
	10908 Dec 03 17:28	0°♒	
	10909 Jan 21 04:41	0°♓	
evening set	10909 Feb 13 16:50	14°♓58'07	
	10909 Mar 08 19:42	0°♈	
max. Earth dist.	10909 Mar 08 17:22	29°♓56'10	2.61306 AU
conjunction	10909 Mar 31 02:26	14°♈48'20	-1°07'27
minimum elong	10909 Mar 31 01:53	14°♈47'24	1°07'33
	10909 Apr 22 10:50	0°♉	
morning rise	10909 May 17 16:07	17°♉34'47	
	10909 Jun 04 02:17	0°♊	
	10909 Jul 14 23:36	0°♋	
	10909 Aug 23 13:08	0°♌	
	10909 Oct 01 10:44	0°♍	
asc. node	10909 Oct 04 14:21	2°♍25'53	
	10909 Nov 09 15:22	0°♎	
	10909 Dec 20 12:42	0°♏	
	10910 Feb 03 22:18	0°♐	
	10910 Apr 16 13:21	0°♑	
retrograde	10910 Apr 26 04:00	0°♑37'21	
	10910 May 05 13:33	30°℞♐	
min. Earth dist.	10910 May 30 04:59	22°♐59'46	0.59643 AU
opposition	10910 Jun 04 22:49	20°♐44'34	3°04'04
greatest brilliancy	10910 Jun 04 08:21	20°♐58'45	-1.7m
direct	10910 Jul 12 12:24	12°♐09'05	
desc. node	10910 Aug 27 06:04	22°♐12'54	
	10910 Sep 14 21:44	0°♑	
	10910 Nov 12 02:02	0°♒	
	10911 Jan 02 00:33	0°♓	
	10911 Feb 18 08:40	0°♈	
evening set	10911 Mar 24 23:51	23°♈12'18	
	10911 Apr 03 20:09	0°♉	
max. Earth dist.	10911 Apr 08 14:40	3°♉19'34	2.50318 AU
conjunction	10911 May 15 01:10	29°♉24'21	-0°57'56
minimum elong	10911 May 15 02:57	29°♉27'35	0°58'24
	10911 May 15 20:39	0°♊	
	10911 Jun 24 22:12	0°♋	
morning rise	10911 Jul 13 04:31	14°♋03'01	
	10911 Aug 02 15:57	0°♌	
asc. node	10911 Aug 22 06:17	15°♌23'11	
	10911 Sep 09 20:10	0°♍	
	10911 Oct 18 07:48	0°♎	
	10911 Nov 27 02:07	0°♏	
	10912 Jan 08 07:21	0°♐	
	10912 Feb 24 01:06	0°♑	
	10912 Apr 24 18:04	0°♒	
retrograde	10912 May 30 19:23	7°♒01'39	
	10912 Jul 03 02:34	30°℞♑	
min. Earth dist.	10912 Jul 08 11:57	27°♑53'35	0.67022 AU
opposition	10912 Jul 10 11:58	27°♑05'55	0°08'24
greatest brilliancy	10912 Jul 10 11:49	27°♑06'04	-1.4m
desc. node	10912 Jul 14 10:13	25°♑33'03	
direct	10912 Aug 19 19:50	17°♑34'00	
	10912 Oct 11 00:26	0°♒	
	10912 Dec 10 03:46	0°♓	
	10913 Jan 28 18:29	0°♈	
	10913 Mar 14 18:47	0°♉	
	10913 Apr 25 15:47	0°♊	
evening set	10913 May 13 10:12	13°♊16'07	
	10913 Jun 04 07:49	0°♋	
max. Earth dist.	10913 Jun 16 02:10	9°♋07'47	2.37221 AU
asc. node	10913 Jul 09 02:25	27°♋11'39	
	10913 Jul 12 15:39	0°♌	
conjunction	10913 Jul 17 06:47	3°♌39'48	0°05'59
minimum elong	10913 Jul 17 06:10	3°♌38'35	0°05'26
behind sun begin	10913 Jul 16 01:41	2°♌42'13	
behind sun end	10913 Jul 18 10:40	4°♌34'58	
	10913 Aug 19 12:39	0°♍	
	10913 Sep 26 20:13	0°♎	
morning rise	10913 Sep 29 04:00	1°♎47'39	
	10913 Nov 05 10:38	0°♏	
	10913 Dec 17 02:32	0°♐	
	10914 Jan 30 15:38	0°♑	

	10914 Mar 20 14:00	0°♒	
	10914 May 20 06:06	0°♓	
desc. node	10914 Jun 01 09:11	4°♓12'58	
retrograde	10914 Jul 03 23:53	9°♓46'01	
opposition	10914 Aug 13 04:35	0°♓17'55	-2°25'10
greatest brilliancy	10914 Aug 13 07:09	0°♓15'24	-1.3m
	10914 Aug 13 22:48	30°℞♒	
min. Earth dist.	10914 Aug 14 23:51	29°♒35'23	0.67887 AU
direct	10914 Sep 23 18:27	20°♒18'23	
	10914 Nov 07 05:22	0°♓	
	10915 Jan 06 00:29	0°♈	
	10915 Feb 22 05:34	0°♉	
	10915 Apr 05 15:38	0°♊	
	10915 May 15 08:18	0°♋	
asc. node	10915 May 27 01:53	9°♋07'25	
	10915 Jun 22 14:13	0°♌	
evening set	10915 Jul 23 23:24	24°♌52'19	
	10915 Jul 30 11:08	0°♍	
	10915 Sep 06 21:57	0°♎	
conjunction	10915 Oct 01 22:43	19°♎00'25	1°05'09
minimum elong	10915 Oct 01 21:31	18°♎58'10	1°05'17
	10915 Oct 16 17:54	0°♏	
max. Earth dist.	10915 Nov 18 00:21	23°♏17'47	2.47255 AU
	10915 Nov 27 13:08	0°♐	
morning rise	10915 Dec 02 04:51	3°♐14'33	
	10916 Jan 10 16:44	0°♑	
	10916 Feb 26 12:06	0°♒	
	10916 Apr 16 22:06	0°♓	
desc. node	10916 Apr 18 02:30	0°♓40'04	
	10916 Jun 15 06:13	0°♈	
retrograde	10916 Aug 09 14:51	13°♈47'54	
opposition	10916 Sep 17 00:47	5°♈10'45	-4°29'20
greatest brilliancy	10916 Sep 17 20:39	4°♈51'43	-1.5m
min. Earth dist.	10916 Sep 22 15:33	3°♈01'52	0.62080 AU
	10916 Oct 01 02:21	30°℞♓	
direct	10916 Oct 28 05:07	25°♓14'38	
	10916 Nov 26 01:37	0°♈	
	10917 Jan 27 02:32	0°♉	
	10917 Mar 13 06:48	0°♊	
asc. node	10917 Apr 13 04:18	22°♊38'39	
	10917 Apr 22 21:17	0°♋	
	10917 May 31 13:37	0°♌	
	10917 Jul 08 19:42	0°♍	
	10917 Aug 16 17:56	0°♎	
	10917 Sep 26 03:31	0°♏	
evening set	10917 Sep 30 20:24	3°♏24'22	
	10917 Nov 07 11:45	0°♐	
conjunction	10917 Nov 25 18:05	12°♐30'09	0°49'09
minimum elong	10917 Nov 25 19:41	12°♐32'51	0°49'41
max. Earth dist.	10917 Dec 21 03:35	29°♐30'03	2.59463 AU
	10917 Dec 21 21:42	0°♑	
morning rise	10918 Jan 14 09:47	15°♑21'58	
	10918 Feb 06 05:27	0°♒	
desc. node	10918 Mar 05 18:23	17°♒19'17	
	10918 Mar 26 07:07	0°♓	
	10918 May 15 12:03	0°♈	
	10918 Jul 09 10:38	0°♉	
retrograde	10918 Sep 26 17:18	25°♉10'53	
opposition	10918 Oct 31 15:06	18°♉03'29	-5°18'33
greatest brilliancy	10918 Nov 02 07:37	17°♉27'53	-2.1m
min. Earth dist.	10918 Nov 09 07:24	15°♉01'19	0.50133 AU
direct	10918 Dec 08 21:05	9°♉19'34	
	10919 Feb 08 23:11	0°♊	
asc. node	10919 Mar 01 09:14	12°♊20'11	
	10919 Mar 27 12:23	0°♋	
	10919 May 07 10:46	0°♌	
	10919 Jun 16 02:54	0°♍	
	10919 Jul 26 06:29	0°♎	
	10919 Sep 05 19:59	0°♏	
	10919 Oct 19 05:09	0°♐	
evening set	10919 Nov 19 03:00	20°♐38'46	
	10919 Dec 03 09:06	0°♑	
conjunction	10920 Jan 05 22:20	21°♑41'53	0°08'20
minimum elong	10920 Jan 05 22:38	21°♑42'22	0°08'55
behind sun begin	10920 Jan 05 06:33	21°♑16'35	
behind sun end	10920 Jan 06 14:44	22°♑08'08	
max. Earth dist.	10920 Jan 14 18:31	27°♑21'21	2.66584 AU
	10920 Jan 18 21:56	0°♒	
desc. node	10920 Jan 21 11:52	1°♒38'41	
morning rise	10920 Feb 19 13:42	20°♒05'40	
	10920 Mar 06 06:14	0°♓	
	10920 Apr 22 23:42	0°♈	
	10920 Jun 10 00:48	0°♉	
	10920 Jul 28 23:10	0°♊	
	10920 Sep 19 03:13	0°♋	
retrograde	10920 Dec 06 05:34	26°♋42'44	
opposition	10921 Jan 05 04:03	21°♋42'10	-0°52'11
greatest brilliancy	10921 Jan 05 08:49	21°♋38'55	-3.0m
min. Earth dist.	10921 Jan 09 06:48	20°♋34'54	0.37553 AU
asc. node	10921 Jan 16 13:51	18°♋43'13	
direct	10921 Feb 05 01:32	16°♋14'38	
	10921 Mar 25 14:20	0°♌	
	10921 May 15 10:52	0°♍	
	10921 Jun 29 11:53	0°♎	
	10921 Aug 13 04:39	0°♏	
	10921 Sep 27 18:42	0°♐	
	10921 Nov 13 10:14	0°♑	
desc. node	10921 Dec 08 08:27	15°♑49'50	
evening set	10921 Dec 27 00:26	27°♑38'29	
	10921 Dec 30 17:59	0°♒	
max. Earth dist.	10922 Feb 05 06:11	23°♒06'16	2.68196 AU
conjunction	10922 Feb 09 14:50	25°♒52'20	-0°32'18
minimum elong	10922 Feb 09 13:57	25°♒50'57	0°31'54
	10922 Feb 16 02:41	0°♓	
morning rise	10922 Mar 24 23:05	23°♓34'43	
	10922 Apr 03 21:46	0°♈	
	10922 May 19 17:30	0°♉	
	10922 Jul 03 10:18	0°♊	
	10922 Aug 16 01:11	0°♋	
	10922 Sep 27 22:27	0°♌	
	10922 Nov 10 06:10	0°♍	
asc. node	10922 Dec 04 13:14	15°♍54'39	
	10922 Dec 28 11:57	0°♎	
retrograde	10923 Feb 20 18:28	17°♎12'59	
min. Earth dist.	10923 Mar 18 20:28	12°♎36'26	0.41553 AU
greatest brilliancy	10923 Mar 25 01:55	10°♎37'25	-2.6m
opposition	10923 Mar 26 17:53	10°♎05'11	5°59'46
direct	10923 Apr 26 19:54	4°♎11'56	
	10923 Jul 12 10:34	0°♏	
	10923 Sep 03 19:16	0°♐	
	10923 Oct 23 23:35	0°♑	
desc. node	10923 Oct 26 11:10	1°♑30'17	
	10923 Dec 12 01:07	0°♒	
	10924 Jan 29 01:07	0°♓	
evening set	10924 Jan 31 15:45	1°♓39'18	
max. Earth dist.	10924 Feb 27 23:29	19°♓09'32	2.64303 AU
	10924 Mar 15 14:58	0°♈	
conjunction	10924 Mar 16 04:20	0°♈21'55	-1°01'36
minimum elong	10924 Mar 16 03:22	0°♈20'20	1°01'32

	10924 Apr 29 11:26	0°♉	
morning rise	10924 Apr 30 14:37	0°♉46'23	
	10924 Jun 11 12:42	0°♊	
	10924 Jul 22 21:59	0°♋	
	10924 Sep 01 00:01	0°♌	
	10924 Oct 10 10:03	0°♍	
asc. node	10924 Oct 21 09:16	8°♍20'11	
	10924 Nov 19 05:54	0°♎	
	10924 Dec 31 09:45	0°♏	
	10925 Feb 19 17:20	0°♐	
retrograde	10925 Apr 10 15:45	14°♐08'38	
min. Earth dist.	10925 May 12 11:11	7°♐17'24	0.55144 AU
opposition	10925 May 19 13:14	4°♐34'10	4°14'33
greatest brilliancy	10925 May 18 12:36	4°♐57'50	-1.9m
	10925 Jun 01 15:09	30°℞♏	
direct	10925 Jun 24 14:04	26°♏32'18	
	10925 Jul 19 12:12	0°♐	
desc. node	10925 Sep 12 17:08	22°♐11'58	
	10925 Sep 27 22:55	0°♑	
	10925 Nov 20 15:30	0°♒	
	10926 Jan 09 08:22	0°♓	
	10926 Feb 25 07:55	0°♈	
evening set	10926 Mar 08 21:25	7°♈38'29	
max. Earth dist.	10926 Mar 26 04:33	19°♈16'15	2.55180 AU
	10926 Apr 10 19:57	0°♉	
conjunction	10926 Apr 25 23:11	10°♉34'38	-1°06'54
minimum elong	10926 Apr 25 23:53	10°♉35'53	1°07'16
	10926 May 23 01:40	0°♊	
morning rise	10926 Jun 18 05:44	19°♊19'10	
	10926 Jul 02 10:00	0°♋	
	10926 Aug 10 10:18	0°♌	
asc. node	10926 Sep 08 02:44	22°♌24'22	
	10926 Sep 17 19:36	0°♍	
	10926 Oct 26 11:08	0°♎	
	10926 Dec 05 10:46	0°♏	
	10927 Jan 17 06:30	0°♐	
	10927 Mar 07 09:55	0°♑	
retrograde	10927 May 18 10:02	23°♑50'38	
min. Earth dist.	10927 Jun 24 11:15	15°♑13'48	0.64886 AU
opposition	10927 Jun 27 22:45	13°♑50'56	1°14'03
greatest brilliancy	10927 Jun 27 19:18	13°♑54'21	-1.4m
desc. node	10927 Jul 31 22:04	4°♑47'58	
direct	10927 Aug 06 09:14	4°♑36'52	
	10927 Oct 26 02:16	0°♒	
	10927 Dec 19 20:13	0°♓	
	10928 Feb 06 07:05	0°♈	
	10928 Mar 22 00:24	0°♉	
evening set	10928 Apr 21 17:56	21°♉49'51	
	10928 May 02 22:02	0°♊	
max. Earth dist.	10928 May 07 04:56	3°♊10'03	2.42039 AU
	10928 Jun 11 17:13	0°♋	
conjunction	10928 Jun 19 03:05	5°♋43'05	-0°25'41
minimum elong	10928 Jun 19 05:10	5°♋47'06	0°26'16
	10928 Jul 20 04:28	0°♌	
asc. node	10928 Jul 25 19:54	4°♌27'02	
	10928 Aug 27 03:39	0°♍	
morning rise	10928 Aug 28 08:59	0°♍57'54	
	10928 Oct 04 11:44	0°♎	
	10928 Nov 13 01:55	0°♏	
	10928 Dec 24 19:28	0°♐	
	10929 Feb 07 19:28	0°♑	
	10929 Mar 30 17:38	0°♒	
desc. node	10929 Jun 17 23:17	27°♒18'16	
retrograde	10929 Jun 20 13:35	27°♒20'47	
opposition	10929 Jul 31 02:45	17°♒39'12	-1°28'45
greatest brilliancy	10929 Jul 31 02:23	17°♒39'34	-1.3m
min. Earth dist.	10929 Jul 31 10:10	17°♒31'52	0.68333 AU
direct	10929 Sep 10 09:18	7°♒47'23	
	10929 Nov 22 15:27	0°♓	
	10930 Jan 15 04:34	0°♈	
	10930 Mar 02 05:27	0°♉	
	10930 Apr 13 08:08	0°♊	
	10930 May 22 23:19	0°♋	
asc. node	10930 Jun 12 17:02	16°♋11'01	
evening set	10930 Jun 23 17:41	24°♋52'34	
	10930 Jun 30 05:09	0°♌	
	10930 Aug 07 01:17	0°♍	
conjunction	10930 Sep 03 13:59	21°♍36'32	0°52'13
minimum elong	10930 Sep 03 10:22	21°♍29'30	0°52'03
	10930 Sep 14 09:54	0°♎	
	10930 Oct 24 02:37	0°♏	
max. Earth dist.	10930 Oct 27 08:47	2°♏24'08	2.41621 AU
morning rise	10930 Nov 10 09:39	12°♏38'42	
	10930 Dec 04 18:58	0°♐	
	10931 Jan 17 23:15	0°♑	
	10931 Mar 06 06:22	0°♒	
	10931 Apr 27 16:34	0°♓	
desc. node	10931 May 05 19:47	4°♓12'36	
	10931 Jul 19 05:45	0°♈	
retrograde	10931 Jul 26 05:02	0°♈17'16	
	10931 Aug 02 00:06	30°℞♓	
opposition	10931 Sep 03 11:53	21°♓16'54	-3°45'55
greatest brilliancy	10931 Sep 03 23:33	21°♓05'34	-1.4m
min. Earth dist.	10931 Sep 07 15:07	19°♓40'39	0.65144 AU
direct	10931 Oct 15 01:32	11°♓14'30	
	10931 Dec 17 19:07	0°♈	
	10932 Feb 07 14:33	0°♉	
	10932 Mar 22 05:14	0°♊	
asc. node	10932 Apr 29 19:37	28°♊51'25	
	10932 May 01 07:19	0°♋	
	10932 Jun 08 17:33	0°♌	
	10932 Jul 16 18:24	0°♍	
	10932 Aug 24 10:30	0°♎	
evening set	10932 Sep 06 09:21	9°♎49'40	
	10932 Oct 03 13:10	0°♏	
conjunction	10932 Nov 06 11:51	24°♏19'28	1°00'48
minimum elong	10932 Nov 06 13:18	24°♏22'01	1°01'15
	10932 Nov 14 14:45	0°♐	
max. Earth dist.	10932 Dec 09 16:11	17°♐10'34	2.55238 AU
	10932 Dec 28 20:25	0°♑	
morning rise	10932 Dec 29 15:16	0°♑31'10	
	10933 Feb 13 05:46	0°♒	
desc. node	10933 Mar 22 11:28	23°♒05'41	
	10933 Apr 02 21:54	0°♓	
	10933 May 25 02:05	0°♈	
	10933 Jul 28 08:19	0°♉	
retrograde	10933 Sep 06 00:36	7°♉48'35	
opposition	10933 Oct 12 13:54	29°♈59'39	-5°15'49
	10933 Oct 12 13:31	30°℞♈	
greatest brilliancy	10933 Oct 13 23:58	29°♈28'16	-1.8m
min. Earth dist.	10933 Oct 20 07:51	27°♈09'01	0.55419 AU
direct	10933 Nov 21 09:37	20°♈34'23	
	10933 Dec 31 23:10	0°♉	
	10934 Feb 23 23:36	0°♊	
asc. node	10934 Mar 17 23:22	15°♊01'12	
	10934 Apr 07 16:03	0°♋	
	10934 May 17 06:32	0°♌	
	10934 Jun 25 03:49	0°♍	
	10934 Aug 03 15:58	0°♎	
	10934 Sep 13 15:27	0°♏	

	10934 Oct 26 12:25	0°♐		
evening set	10934 Nov 01 17:19	4°♐13'49		
	10934 Dec 10 07:21	0°♑		
conjunction	10934 Dec 21 22:09	7°♑36'05	0°24'55	
minimum elong	10934 Dec 21 23:02	7°♑37'32	0°25'30	
max. Earth dist.	10935 Jan 05 19:45	17°♑15'36	2.64449 AU	
	10935 Jan 25 16:19	0°♒		
morning rise	10935 Feb 05 23:33	7°♒11'24		
desc. node	10935 Feb 07 03:30	7°♒55'44		
	10935 Mar 14 04:43	0°♓		
	10935 May 01 14:43	0°♈		
	10935 Jun 20 07:33	0°♉		
	10935 Aug 12 10:14	0°♊		
retrograde	10935 Nov 05 19:34	29°♊18'08		
opposition	10935 Dec 07 13:21	23°♊32'00	-3°43'20	
greatest brilliancy	10935 Dec 08 18:44	23°♊09'20	-2.7m	
min. Earth dist.	10935 Dec 15 06:30	21°♊10'16	0.41564 AU	
direct	10936 Jan 10 17:04	16°♊40'20		
asc. node	10936 Feb 03 04:10	20°♊23'02		
	10936 Feb 26 18:17	0°♋		
	10936 Apr 16 07:23	0°♌		
	10936 May 29 03:10	0°♍		
	10936 Jul 10 05:03	0°♎		
	10936 Aug 22 04:52	0°♏		
	10936 Oct 05 16:13	0°♐		
	10936 Nov 20 14:30	0°♑		
evening set	10936 Dec 12 14:00	14°♑06'25		
desc. node	10936 Dec 24 22:40	21°♑59'34		
	10937 Jan 06 12:46	0°♒		
conjunction	10937 Jan 27 00:11	12°♒59'37	-0°17'25	
minimum elong	10937 Jan 26 23:40	12°♒58'48	0°16'55	
max. Earth dist.	10937 Jan 27 14:03	13°♒21'35	2.68235 AU	
	10937 Feb 22 19:41	0°♓		
morning rise	10937 Mar 11 11:30	10°♓35'14		
	10937 Apr 10 21:11	0°♈		
	10937 May 27 08:54	0°♉		
	10937 Jul 12 05:20	0°♊		
	10937 Aug 26 15:16	0°♋		
	10937 Oct 11 11:42	0°♌		
	10937 Nov 30 20:23	0°♍		
asc. node	10937 Dec 21 07:30	9°♍31'41		
retrograde	10938 Jan 25 08:34	17°♍12'00		
min. Earth dist.	10938 Feb 20 14:52	12°♍55'53	0.37522 AU	
opposition	10938 Feb 25 12:05	11°♍33'58	4°39'00	
greatest brilliancy	10938 Feb 24 14:15	11°♍49'16	-3.0m	
direct	10938 Mar 26 19:33	6°♍32'28		
	10938 Jun 04 23:25	0°♎		
	10938 Jul 26 19:02	0°♏		
	10938 Sep 13 13:14	0°♐		
	10938 Oct 31 21:45	0°♑		
desc. node	10938 Nov 11 22:21	6°♑50'52		
	10938 Dec 19 02:55	0°♒		
evening set	10939 Jan 17 21:41	18°♒40'43		
	10939 Feb 04 19:06	0°♓		
max. Earth dist.	10939 Feb 19 00:30	9°♓04'12	2.66469 AU	
conjunction	10939 Mar 03 02:18	16°♓49'34	-0°52'17	
minimum elong	10939 Mar 03 01:12	16°♓47'48	0°52'05	
	10939 Mar 23 09:37	0°♈		
morning rise	10939 Apr 16 05:17	15°♈41'44		
	10939 May 07 13:22	0°♉		
	10939 Jun 20 03:14	0°♊		
	10939 Aug 01 04:38	0°♋		
	10939 Sep 11 00:49	0°♌		
	10939 Oct 21 07:25	0°♍		
asc. node	10939 Nov 08 04:15	13°♍12'38		
	10939 Dec 01 09:10	0°♎		
	10940 Jan 15 15:56	0°♏		
retrograde	10940 Mar 24 08:04	25°♏03'47		
min. Earth dist.	10940 Apr 22 17:24	19°♏05'55	0.49899 AU	
greatest brilliancy	10940 Apr 29 08:59	16°♏39'13	-2.1m	
opposition	10940 Apr 30 20:27	16°♏06'30	5°19'16	
direct	10940 Jun 04 00:37	8°♏47'58		
	10940 Aug 12 23:50	0°♐		
desc. node	10940 Sep 29 03:19	24°♐49'30		
	10940 Oct 08 07:51	0°♑		
	10940 Nov 28 13:45	0°♒		
	10941 Jan 16 10:30	0°♓		
evening set	10941 Feb 21 22:12	23°♓17'33		
	10941 Mar 04 04:39	0°♈		
max. Earth dist.	10941 Mar 14 17:11	6°♈56'59	2.59331 AU	
conjunction	10941 Apr 09 01:22	24°♈00'38	-1°08'53	
minimum elong	10941 Apr 09 01:11	24°♈00'19	1°09'04	
	10941 Apr 17 18:54	0°♉		
morning rise	10941 May 28 06:26	28°♉32'13		
	10941 May 30 07:06	0°♊		
	10941 Jul 09 23:39	0°♋		
	10941 Aug 18 08:07	0°♌		
asc. node	10941 Sep 24 20:41	29°♌05'37		
	10941 Sep 26 00:41	0°♍		
	10941 Nov 03 23:09	0°♎		
	10941 Dec 14 09:33	0°♏		
	10942 Jan 27 10:32	0°♐		
	10942 Mar 23 19:03	0°♑		
retrograde	10942 May 04 11:53	9°♑43'07		
min. Earth dist.	10942 Jun 08 16:11	1°♑42'43	0.61770 AU	
opposition	10942 Jun 13 14:48	29°♐45'41	2°23'07	
greatest brilliancy	10942 Jun 13 05:10	29°♐55'12	-1.6m	
	10942 Jun 13 00:18	30°℞♐		
direct	10942 Jul 21 21:58	20°♐54'42		
desc. node	10942 Aug 17 10:03	24°♐41'05		
	10942 Sep 03 04:55	0°♑		
	10942 Nov 05 19:21	0°♒		
	10942 Dec 27 20:13	0°♓		
	10943 Feb 13 13:20	0°♈		
	10943 Mar 30 03:14	0°♉		
evening set	10943 Apr 03 19:41	3°♉15'48		
max. Earth dist.	10943 Apr 17 14:19	12°♉58'52	2.47451 AU	
	10943 May 11 03:20	0°♊		
conjunction	10943 May 27 01:09	11°♊46'59	-0°48'59	
minimum elong	10943 May 27 03:24	11°♊51'13	0°49'31	
	10943 Jun 20 02:55	0°♋		
	10943 Jul 28 18:21	0°♌		
morning rise	10943 Jul 29 02:48	0°♌16'34		
asc. node	10943 Aug 12 14:25	11°♌40'14		
greatest brilliancy	10943 Aug 24 17:51	21°♌14'43	1.2m	
	10943 Sep 04 20:27	0°♍		
	10943 Oct 13 05:57	0°♎		
	10943 Nov 21 21:21	0°♏		
	10944 Jan 02 19:54	0°♐		
	10944 Feb 17 16:01	0°♑		
	10944 Apr 12 16:43	0°♒		
retrograde	10944 Jun 07 09:01	14°♒50'16		
desc. node	10944 Jul 04 13:05	10°♒04'41		
min. Earth dist.	10944 Jul 16 21:43	5°♒26'32	0.67766 AU	
opposition	10944 Jul 18 01:50	4°♒58'39	-0°28'36	
greatest brilliancy	10944 Jul 18 01:09	4°♒59'20	-1.3m	
	10944 Jul 31 09:22	30°℞♑		
direct	10944 Aug 27 19:15	25°♑18'29		
	10944 Sep 26 20:30	0°♒		

	10944 Dec 03 18:12	0°♓	
	10945 Jan 23 11:45	0°♈	
	10945 Mar 09 20:07	0°♉	
	10945 Apr 20 19:32	0°♊	
evening set	10945 May 27 06:14	27°♊30'48	
	10945 May 30 11:36	0°♋	
asc. node	10945 Jun 29 09:51	23°♋22'59	
	10945 Jul 07 18:56	0°♌	
conjunction	10945 Aug 03 13:03	21°♌12'25	0°24'58
minimum elong	10945 Aug 03 10:24	21°♌07'09	0°24'31
	10945 Aug 14 15:35	0°♍	
max. Earth dist.	10945 Sep 04 03:56	16°♍09'10	2.36725 AU
	10945 Sep 21 22:58	0°♎	
morning rise	10945 Oct 15 14:11	18°♎03'38	
	10945 Oct 31 13:12	0°♏	
	10945 Dec 12 03:49	0°♐	
	10946 Jan 25 11:15	0°♑	
	10946 Mar 14 13:56	0°♒	
	10946 May 09 17:52	0°♓	
desc. node	10946 May 22 10:47	5°♓30'53	
retrograde	10946 Jul 11 20:14	17°♓26'25	
opposition	10946 Aug 20 18:59	8°♓07'09	-2°56'24
greatest brilliancy	10946 Aug 21 00:15	8°♓02'00	-1.3m
min. Earth dist.	10946 Aug 23 10:25	7°♓05'03	0.67192 AU
	10946 Sep 14 02:22	30°℞♒	
direct	10946 Oct 01 10:57	28°♒05'02	
	10946 Oct 19 18:24	0°♓	
	10946 Dec 30 06:54	0°♈	
	10947 Feb 16 16:47	0°♉	
	10947 Mar 31 11:36	0°♊	
	10947 May 10 07:07	0°♋	
asc. node	10947 May 17 09:19	5°♋29'40	
greatest brilliancy	10947 Jun 14 02:13	27°♋14'00	1.2m
	10947 Jun 17 14:13	0°♌	
	10947 Jul 25 12:07	0°♍	
evening set	10947 Aug 10 03:47	12°♍17'33	
	10947 Sep 02 00:09	0°♎	
	10947 Oct 11 21:37	0°♏	
conjunction	10947 Oct 16 05:36	3°♏10'36	1°06'22
minimum elong	10947 Oct 16 05:46	3°♏10'55	1°06'40
	10947 Nov 22 18:07	0°♐	
max. Earth dist.	10947 Nov 27 02:08	3°♐01'10	2.50288 AU
morning rise	10947 Dec 13 03:47	14°♐04'19	
	10948 Jan 05 21:01	0°♑	
	10948 Feb 21 10:45	0°♒	
desc. node	10948 Apr 08 04:09	28°♒19'55	
	10948 Apr 11 00:53	0°♓	
	10948 Jun 05 15:35	0°♈	
retrograde	10948 Aug 18 23:00	22°♈25'14	
opposition	10948 Sep 25 19:35	14°♈03'11	-4°50'11
greatest brilliancy	10948 Sep 26 20:36	13°♈39'29	-1.6m
min. Earth dist.	10948 Oct 02 05:51	11°♈37'20	0.59981 AU
direct	10948 Nov 05 15:49	4°♈14'16	
	10949 Jan 19 04:04	0°♉	
	10949 Mar 07 02:59	0°♊	
asc. node	10949 Apr 03 14:22	19°♊46'06	
	10949 Apr 17 06:22	0°♋	
	10949 May 26 04:29	0°♌	
	10949 Jul 03 14:25	0°♍	
	10949 Aug 11 16:00	0°♎	
	10949 Sep 21 05:00	0°♏	
evening set	10949 Oct 13 05:13	15°♏43'31	
	10949 Nov 02 16:29	0°♐	
conjunction	10949 Dec 05 18:03	22°♐24'57	0°40'45
minimum elong	10949 Dec 05 19:28	22°♐27'19	0°41'20
	10949 Dec 17 04:25	0°♑	
max. Earth dist.	10949 Dec 27 04:30	6°♑34'26	2.61487 AU
morning rise	10950 Jan 22 21:12	23°♑51'55	
	10950 Feb 01 11:29	0°♒	
desc. node	10950 Feb 23 19:16	14°♒07'15	
	10950 Mar 21 06:49	0°♓	
	10950 May 09 16:22	0°♈	
	10950 Jul 01 01:29	0°♉	
	10950 Sep 03 20:15	0°♊	
retrograde	10950 Oct 09 23:43	6°♊44'29	
opposition	10950 Nov 12 18:49	0°♊04'05	-5°02'06
	10950 Nov 12 23:39	30°℞♉	
greatest brilliancy	10950 Nov 14 11:27	29°♉29'39	-2.3m
min. Earth dist.	10950 Nov 21 13:33	27°♉06'20	0.47039 AU
direct	10950 Dec 19 20:11	21°♉52'56	
	10951 Jan 24 21:18	0°♊	
asc. node	10951 Feb 19 19:37	12°♊54'22	
	10951 Mar 19 05:16	0°♋	
	10951 Apr 30 15:18	0°♌	
	10951 Jun 10 00:40	0°♍	
	10951 Jul 20 15:44	0°♎	
	10951 Aug 31 14:04	0°♏	
	10951 Oct 14 06:16	0°♐	
evening set	10951 Nov 28 08:30	29°♐49'14	
	10951 Nov 28 15:07	0°♑	
desc. node	10952 Jan 11 12:15	28°♑14'41	
conjunction	10952 Jan 14 03:24	29°♑55'24	-0°01'26
minimum elong	10952 Jan 14 03:20	29°♑55'16	0°00'52
behind sun begin	10952 Jan 13 08:37	29°♑25'27	
behind sun end	10952 Jan 14 22:03	0°♒25'05	
	10952 Jan 14 06:19	0°♒	
max. Earth dist.	10952 Jan 19 22:48	3°♒37'20	2.67405 AU
morning rise	10952 Feb 27 05:19	27°♒53'20	
	10952 Mar 01 13:25	0°♓	
	10952 Apr 18 00:02	0°♈	
	10952 Jun 04 09:18	0°♉	
	10952 Jul 21 22:16	0°♊	
	10952 Sep 08 13:52	0°♋	
	10952 Nov 02 00:11	0°♌	
retrograde	10952 Dec 24 21:52	14°♌43'03	
asc. node	10953 Jan 06 22:16	13°♌37'14	
opposition	10953 Jan 23 14:07	9°♌48'55	1°18'26
greatest brilliancy	10953 Jan 23 14:09	9°♌48'54	-3.1m
min. Earth dist.	10953 Jan 24 12:14	9°♌34'13	0.36535 AU
direct	10953 Feb 22 07:37	4°♌50'20	
	10953 May 03 22:53	0°♍	
	10953 Jun 21 16:26	0°♎	
	10953 Aug 06 21:45	0°♏	
	10953 Sep 22 07:55	0°♐	
	10953 Nov 08 11:03	0°♑	
desc. node	10953 Nov 28 10:50	12°♑37'12	
	10953 Dec 26 01:03	0°♒	
evening set	10954 Jan 04 01:30	5°♒40'55	
max. Earth dist.	10954 Feb 10 08:03	29°♒15'39	2.67813 AU
	10954 Feb 11 11:57	0°♓	
conjunction	10954 Feb 17 09:27	3°♓45'16	-0°40'19
minimum elong	10954 Feb 17 08:27	3°♓43'40	0°39'59
	10954 Mar 30 05:07	0°♈	
morning rise	10954 Apr 01 20:52	1°♈43'33	
	10954 May 14 18:53	0°♉	
	10954 Jun 28 01:09	0°♊	
	10954 Aug 10 00:30	0°♋	
	10954 Sep 20 23:41	0°♌	
	10954 Nov 01 18:32	0°♍	

asc. node	10954 Nov 24 21:48	16°♍10'08	
	10954 Dec 15 17:31	0°♎	
	10955 Feb 14 20:18	0°♏	
retrograde	10955 Mar 05 12:04	2°♏28'03	
	10955 Mar 23 21:30	30°℞♎	
min. Earth dist.	10955 Apr 01 14:11	27°♎25'02	0.44419 AU
greatest brilliancy	10955 Apr 08 05:43	25°♎09'19	-2.5m
opposition	10955 Apr 09 23:40	24°♎33'19	6°00'44
direct	10955 May 12 03:11	18°♎07'45	
	10955 Jun 29 09:32	0°♏	
	10955 Aug 27 15:25	0°♐	
desc. node	10955 Oct 16 14:54	28°♐57'39	
	10955 Oct 18 08:55	0°♑	
	10955 Dec 07 01:58	0°♒	
	10956 Jan 24 08:37	0°♓	
evening set	10956 Feb 08 15:33	9°♓42'41	
max. Earth dist.	10956 Mar 04 12:49	25°♓46'27	2.62740 AU
	10956 Mar 10 23:52	0°♈	
conjunction	10956 Mar 24 13:58	8°♈58'12	-1°05'32
minimum elong	10956 Mar 24 13:12	8°♈56'56	1°05'33
	10956 Apr 24 18:16	0°♉	
morning rise	10956 May 10 01:59	10°♉34'26	
	10956 Jun 06 15:00	0°♊	
	10956 Jul 17 18:20	0°♋	
	10956 Aug 26 13:40	0°♌	
	10956 Oct 04 16:31	0°♍	
asc. node	10956 Oct 11 16:32	5°♍22'22	
	10956 Nov 13 02:15	0°♎	
	10956 Dec 24 08:39	0°♏	
	10957 Feb 09 01:22	0°♐	
retrograde	10957 Apr 19 16:12	24°♐14'37	
min. Earth dist.	10957 May 22 17:48	16°♐56'59	0.57727 AU
greatest brilliancy	10957 May 28 07:56	14°♐46'32	-1.8m
opposition	10957 May 29 02:32	14°♐28'26	3°34'11
direct	10957 Jul 05 00:43	6°♐06'52	
desc. node	10957 Sep 02 21:00	22°♐03'29	
	10957 Sep 19 23:38	0°♑	
	10957 Nov 14 23:35	0°♒	
	10958 Jan 04 09:34	0°♓	
	10958 Feb 20 15:00	0°♈	
evening set	10958 Mar 17 21:30	16°♈48'43	
max. Earth dist.	10958 Apr 02 11:21	27°♈26'58	2.52554 AU
	10958 Apr 06 03:52	0°♉	
conjunction	10958 May 06 11:41	21°♉25'18	-1°02'44
minimum elong	10958 May 06 12:59	21°♉27'39	1°03'10
	10958 May 18 07:46	0°♊	
	10958 Jun 27 13:05	0°♋	
morning rise	10958 Jul 01 19:06	3°♋14'25	
	10958 Aug 05 10:04	0°♌	
asc. node	10958 Aug 29 08:04	18°♌44'02	
	10958 Sep 12 16:34	0°♍	
	10958 Oct 21 05:16	0°♎	
	10958 Nov 30 00:25	0°♏	
	10959 Jan 11 09:08	0°♐	
	10959 Feb 27 18:53	0°♑	
	10959 May 08 03:27	0°♒	
retrograde	10959 May 26 02:54	1°♒57'07	
	10959 Jun 12 05:29	30°℞♑	
min. Earth dist.	10959 Jul 03 02:57	23°♑02'16	0.66193 AU
opposition	10959 Jul 05 18:29	21°♑59'11	0°35'13
greatest brilliancy	10959 Jul 05 17:18	22°♑00'22	-1.4m
desc. node	10959 Jul 22 01:48	16°♑06'33	
direct	10959 Aug 14 17:25	12°♑34'36	
	10959 Oct 17 14:35	0°♒	
	10959 Dec 14 03:20	0°♓	
	10960 Feb 01 07:00	0°♈	
	10960 Mar 17 05:37	0°♉	
	10960 Apr 28 04:11	0°♊	
evening set	10960 May 03 13:43	3°♊59'26	
max. Earth dist.	10960 May 24 15:57	19°♊50'32	2.39160 AU
	10960 Jun 06 22:23	0°♋	
conjunction	10960 Jul 04 11:34	21°♋27'10	-0°08'26
minimum elong	10960 Jul 04 12:27	21°♋28'53	0°09'01
behind sun begin	10960 Jul 03 12:12	20°♋41'17	
behind sun end	10960 Jul 05 12:41	22°♋16'31	
	10960 Jul 15 07:59	0°♌	
asc. node	10960 Jul 16 03:33	0°♌38'35	
	10960 Aug 22 05:47	0°♍	
morning rise	10960 Sep 15 12:20	19°♍05'41	
	10960 Sep 29 12:51	0°♎	
	10960 Nov 08 01:52	0°♏	
	10960 Dec 19 16:47	0°♐	
	10961 Feb 02 07:42	0°♑	
	10961 Mar 23 19:50	0°♒	
	10961 May 28 16:25	0°♓	
desc. node	10961 Jun 08 01:50	2°♓40'17	
retrograde	10961 Jun 28 04:43	4°♓57'19	
	10961 Jul 26 06:26	30°℞♒	
opposition	10961 Aug 07 14:17	25°♒22'53	-2°02'21
greatest brilliancy	10961 Aug 07 15:16	25°♒21'55	-1.3m
min. Earth dist.	10961 Aug 08 17:49	24°♒55'45	0.68224 AU
direct	10961 Sep 18 01:49	15°♒26'14	
	10961 Nov 13 13:55	0°♓	
	10962 Jan 09 06:44	0°♈	
	10962 Feb 25 00:42	0°♉	
	10962 Apr 08 08:57	0°♊	
	10962 May 18 01:52	0°♋	
asc. node	10962 Jun 03 02:24	12°♋28'28	
	10962 Jun 25 08:02	0°♌	
evening set	10962 Jul 10 12:30	12°♌02'28	
	10962 Aug 02 04:22	0°♍	
	10962 Sep 09 13:23	0°♎	
conjunction	10962 Sep 20 00:22	8°♎01'21	1°01'25
minimum elong	10962 Sep 19 21:59	7°♎56'48	1°01'26
	10962 Oct 19 06:31	0°♏	
max. Earth dist.	10962 Nov 09 17:23	15°♏38'19	2.44742 AU
morning rise	10962 Nov 23 04:23	25°♏14'05	
	10962 Nov 29 22:56	0°♐	
	10963 Jan 13 00:51	0°♑	
	10963 Feb 28 22:53	0°♒	
	10963 Apr 20 23:53	0°♓	
desc. node	10963 Apr 25 20:07	2°♓39'22	
	10963 Jun 23 07:23	0°♈	
retrograde	10963 Aug 03 19:29	8°♈24'24	
	10963 Sep 10 15:30	30°℞♓	
opposition	10963 Sep 11 16:09	29°♓36'20	-4°11'59
greatest brilliancy	10963 Sep 12 08:17	29°♓20'46	-1.4m
min. Earth dist.	10963 Sep 16 15:37	27°♓41'19	0.63579 AU
direct	10963 Oct 23 02:16	19°♓36'22	
	10963 Dec 06 20:27	0°♈	
	10964 Feb 01 02:24	0°♉	
	10964 Mar 16 14:08	0°♊	
asc. node	10964 Apr 20 04:20	25°♊34'18	
	10964 Apr 25 23:43	0°♋	
	10964 Jun 03 13:25	0°♌	
	10964 Jul 11 16:50	0°♍	
	10964 Aug 19 11:28	0°♎	
evening set	10964 Sep 20 15:39	24°♎06'28	
	10964 Sep 28 16:36	0°♏	
	10964 Nov 09 20:27	0°♐	

conjunction	10964 Nov 17 17:31	5°♐26'42	0°54'35
minimum elong	10964 Nov 17 19:09	5°♐29'31	0°55'07
max. Earth dist.	10964 Dec 16 09:56	24°♐52'39	2.57663 AU
	10964 Dec 24 02:51	0°♑	
morning rise	10965 Jan 07 19:15	9°♑39'11	
	10965 Feb 08 09:50	0°♒	
desc. node	10965 Mar 12 11:40	20°♒05'12	
	10965 Mar 28 15:55	0°♓	
	10965 May 18 12:58	0°♈	
	10965 Jul 15 02:10	0°♉	
retrograde	10965 Sep 17 08:19	17°♉51'38	
opposition	10965 Oct 23 00:34	10°♉24'31	-5°20'43
greatest brilliancy	10965 Oct 24 14:54	9°♉50'01	-2.0m
min. Earth dist.	10965 Oct 31 08:48	7°♉24'57	0.52574 AU
direct	10965 Dec 01 01:57	1°♉19'09	
	10966 Feb 15 12:14	0°♊	
asc. node	10966 Mar 08 09:13	13°♊27'58	
	10966 Mar 31 23:58	0°♋	
	10966 May 11 06:06	0°♌	
	10966 Jun 19 12:25	0°♍	
	10966 Jul 29 07:39	0°♎	
	10966 Sep 08 13:10	0°♏	
	10966 Oct 21 15:28	0°♐	
evening set	10966 Nov 11 20:07	14°♐17'30	
	10966 Dec 05 14:02	0°♑	
conjunction	10966 Dec 30 14:36	16°♑16'08	0°15'15
minimum elong	10966 Dec 30 15:09	16°♑17'01	0°15'50
behind sun begin	10966 Dec 30 14:25	16°♑15'49	
behind sun end	10966 Dec 30 15:54	16°♑18'13	
max. Earth dist.	10967 Jan 11 03:42	23°♑41'40	2.65734 AU
	10967 Jan 21 00:13	0°♒	
desc. node	10967 Jan 28 04:37	4°♒34'49	
morning rise	10967 Feb 13 19:27	15°♒07'28	
	10967 Mar 09 09:33	0°♓	
	10967 Apr 26 09:16	0°♈	
	10967 Jun 14 01:34	0°♉	
	10967 Aug 03 10:31	0°♊	
	10967 Sep 29 09:37	0°♋	
retrograde	10967 Nov 22 21:47	14°♋33'18	
opposition	10967 Dec 23 13:52	9°♋15'26	-2°18'03
greatest brilliancy	10967 Dec 24 05:48	9°♋03'59	-2.9m
min. Earth dist.	10967 Dec 29 16:47	7°♋30'27	0.39075 AU
direct	10968 Jan 24 20:49	3°♋12'35	
asc. node	10968 Jan 24 14:28	3°♋12'37	
	10968 Apr 05 09:14	0°♌	
	10968 May 21 06:21	0°♍	
	10968 Jul 03 16:23	0°♎	
	10968 Aug 16 11:14	0°♏	
	10968 Sep 30 11:19	0°♐	
	10968 Nov 15 17:46	0°♑	
desc. node	10968 Dec 15 00:14	18°♑40'25	
evening set	10968 Dec 20 21:44	22°♑25'02	
	10969 Jan 01 20:41	0°♒	
max. Earth dist.	10969 Feb 01 14:01	19°♒27'52	2.68317 AU
conjunction	10969 Feb 03 19:26	20°♒52'33	-0°26'20
minimum elong	10969 Feb 03 18:42	20°♒51'22	0°25'53
	10969 Feb 18 04:28	0°♓	
morning rise	10969 Mar 19 03:46	18°♓28'30	
	10969 Apr 06 02:23	0°♈	
	10969 May 22 05:16	0°♉	
	10969 Jul 06 09:39	0°♊	
	10969 Aug 19 17:34	0°♋	
	10969 Oct 02 15:57	0°♌	
	10969 Nov 16 22:07	0°♍	
asc. node	10969 Dec 11 14:32	14°♍48'37	
	10970 Jan 13 04:14	0°♎	
retrograde	10970 Feb 09 21:21	5°♎06'27	
min. Earth dist.	10970 Mar 07 15:31	0°♎44'52	0.39499 AU
	10970 Mar 10 03:59	30°℞♍	
greatest brilliancy	10970 Mar 13 03:18	29°♍06'01	-2.8m
opposition	10970 Mar 14 13:34	28°♍40'01	5°40'29
direct	10970 Apr 13 19:05	23°♍12'25	
	10970 May 18 02:49	0°♎	
	10970 Jul 18 10:33	0°♏	
	10970 Sep 07 08:31	0°♐	
	10970 Oct 26 15:08	0°♑	
desc. node	10970 Nov 02 01:59	3°♑57'23	
	10970 Dec 14 07:09	0°♒	
evening set	10971 Jan 25 18:01	26°♒34'21	
	10971 Jan 31 03:59	0°♓	
max. Earth dist.	10971 Feb 24 05:10	15°♓21'35	2.65374 AU
conjunction	10971 Mar 11 01:27	24°♓57'51	-0°58'07
minimum elong	10971 Mar 11 00:25	24°♓56'10	0°58'00
	10971 Mar 18 18:43	0°♈	
morning rise	10971 Apr 24 19:44	24°♈35'54	
	10971 May 02 19:16	0°♉	
	10971 Jun 15 02:40	0°♊	
	10971 Jul 26 19:27	0°♋	
	10971 Sep 05 05:09	0°♌	
	10971 Oct 14 23:10	0°♍	
asc. node	10971 Oct 29 10:47	10°♍54'16	
	10971 Nov 24 04:52	0°♎	
	10972 Jan 06 06:01	0°♏	
	10972 Mar 01 19:23	0°♐	
retrograde	10972 Apr 03 10:58	6°♐44'55	
min. Earth dist.	10972 May 04 04:30	0°♐16'59	0.52883 AU
	10972 May 04 22:48	30°℞♏	
opposition	10972 May 11 19:22	27°♏24'22	4°43'47
greatest brilliancy	10972 May 10 13:57	27°♏52'12	-2.0m
direct	10972 Jun 16 01:51	19°♏40'24	
	10972 Jul 31 17:40	0°♐	
desc. node	10972 Sep 19 07:58	23°♐21'02	
	10972 Oct 01 17:10	0°♑	
	10972 Nov 23 06:26	0°♒	
	10973 Jan 11 14:58	0°♓	
	10973 Feb 27 13:04	0°♈	
evening set	10973 Mar 02 08:05	1°♈50'01	
max. Earth dist.	10973 Mar 21 01:28	14°♈16'58	2.57134 AU
	10973 Apr 13 03:20	0°♉	
conjunction	10973 Apr 18 10:13	3°♉39'40	-1°08'31
minimum elong	10973 Apr 18 10:30	3°♉40'10	1°08'48
	10973 May 25 12:59	0°♊	
morning rise	10973 Jun 08 16:36	10°♊19'55	
	10973 Jul 05 01:52	0°♋	
	10973 Aug 13 06:04	0°♌	
asc. node	10973 Sep 15 04:43	25°♌39'13	
	10973 Sep 20 18:25	0°♍	
	10973 Oct 29 12:07	0°♎	
	10973 Dec 08 14:14	0°♏	
	10974 Jan 20 17:54	0°♐	
	10974 Mar 12 11:25	0°♑	
retrograde	10974 May 12 13:38	18°♑25'33	
min. Earth dist.	10974 Jun 17 19:48	10°♑03'59	0.63619 AU
opposition	10974 Jun 21 22:42	8°♑25'59	1°42'27
greatest brilliancy	10974 Jun 21 16:58	8°♑31'40	-1.5m
	10974 Jul 20 19:31	30°℞♐	
direct	10974 Jul 30 21:39	29°♐21'23	
desc. node	10974 Aug 07 13:19	29°♐42'18	
	10974 Aug 10 09:02	0°♑	
	10974 Oct 29 23:31	0°♒	

	10974 Dec 22 12:21	0°♓	
	10975 Feb 08 16:35	0°♈	
	10975 Mar 25 09:52	0°♉	
evening set	10975 Apr 14 05:55	13°♉57'15	
max. Earth dist.	10975 Apr 28 03:58	23°♉58'42	2.44465 AU
	10975 May 06 09:46	0°♊	
conjunction	10975 Jun 09 03:04	25°♊15'28	-0°36'53
minimum elong	10975 Jun 09 05:27	25°♊20'01	0°37'28
	10975 Jun 15 07:54	0°♋	
	10975 Jul 23 21:25	0°♌	
asc. node	10975 Aug 02 21:34	7°♌52'51	
morning rise	10975 Aug 15 08:05	17°♌42'00	
	10975 Aug 30 21:53	0°♍	
	10975 Oct 08 06:04	0°♎	
	10975 Nov 16 19:27	0°♏	
	10975 Dec 28 13:06	0°♐	
	10976 Feb 11 17:47	0°♑	
	10976 Apr 03 19:26	0°♒	
retrograde	10976 Jun 14 22:05	22°♒31'47	
desc. node	10976 Jun 24 14:57	21°♒55'35	
opposition	10976 Jul 25 13:45	12°♒45'25	-1°04'28
min. Earth dist.	10976 Jul 25 05:37	12°♒53'27	0.68208 AU
greatest brilliancy	10976 Jul 25 12:52	12°♒46'17	-1.3m
direct	10976 Sep 04 15:08	2°♒58'13	
	10976 Nov 26 18:04	0°♓	
	10977 Jan 18 01:17	0°♈	
	10977 Mar 04 20:31	0°♉	
	10977 Apr 15 23:02	0°♊	
	10977 May 25 15:33	0°♋	
evening set	10977 Jun 11 06:07	12°♋55'30	
asc. node	10977 Jun 19 17:33	19°♋34'45	
	10977 Jul 02 22:19	0°♌	
	10977 Aug 09 18:29	0°♍	
conjunction	10977 Aug 21 03:19	8°♍58'14	0°41'58
minimum elong	10977 Aug 20 23:32	8°♍50'46	0°41'38
	10977 Sep 17 01:57	0°♎	
max. Earth dist.	10977 Oct 12 12:10	19°♎24'30	2.39170 AU
	10977 Oct 26 16:21	0°♏	
morning rise	10977 Oct 30 16:40	2°♏58'00	
	10977 Dec 07 06:22	0°♐	
	10978 Jan 20 09:54	0°♑	
	10978 Mar 08 22:09	0°♒	
	10978 May 01 10:55	0°♓	
desc. node	10978 May 12 12:30	5°♓25'35	
retrograde	10978 Jul 19 22:27	25°♓14'08	
opposition	10978 Aug 28 13:29	16°♓04'56	-3°25'59
greatest brilliancy	10978 Aug 28 22:08	15°♓56'30	-1.3m
min. Earth dist.	10978 Sep 01 01:10	14°♓43'26	0.66190 AU
direct	10978 Oct 09 05:19	6°♓01'53	
	10978 Dec 22 16:34	0°♈	
	10979 Feb 10 22:15	0°♉	
	10979 Mar 26 05:12	0°♊	
	10979 May 05 05:17	0°♋	
asc. node	10979 May 07 19:14	1°♋59'24	
	10979 Jun 12 14:16	0°♌	
	10979 Jul 20 13:23	0°♍	
evening set	10979 Aug 26 11:31	28°♍44'36	
	10979 Aug 28 02:51	0°♎	
	10979 Oct 07 01:51	0°♏	
conjunction	10979 Oct 29 05:55	16°♏03'31	1°04'07
minimum elong	10979 Oct 29 06:59	16°♏05'26	1°04'32
	10979 Nov 17 23:42	0°♐	
max. Earth dist.	10979 Dec 05 03:23	11°♐50'54	2.53106 AU
morning rise	10979 Dec 23 08:26	24°♐10'01	
	10980 Jan 01 02:31	0°♑	
	10980 Feb 16 12:05	0°♒	
desc. node	10980 Mar 29 04:52	25°♒40'24	
	10980 Apr 05 10:57	0°♓	
	10980 May 28 17:30	0°♈	
	10980 Aug 12 16:31	0°♉	
retrograde	10980 Aug 28 23:16	1°♉29'53	
	10980 Sep 13 11:20	30°℞♈	
opposition	10980 Oct 05 03:23	23°♈25'21	-5°06'45
greatest brilliancy	10980 Oct 06 09:38	22°♈57'06	-1.7m
min. Earth dist.	10980 Oct 12 08:07	20°♈44'27	0.57559 AU
direct	10980 Nov 14 11:52	13°♈47'40	
	10981 Jan 09 06:23	0°♉	
	10981 Feb 28 09:13	0°♊	
asc. node	10981 Mar 24 23:22	17°♊13'16	
	10981 Apr 11 08:25	0°♋	
	10981 May 20 15:15	0°♌	
	10981 Jun 28 06:45	0°♍	
	10981 Aug 06 13:08	0°♎	
	10981 Sep 16 06:25	0°♏	
evening set	10981 Oct 24 13:48	27°♏01'12	
	10981 Oct 28 21:37	0°♐	
	10981 Dec 12 11:59	0°♑	
conjunction	10981 Dec 15 03:04	1°♑43'53	0°31'41
minimum elong	10981 Dec 15 04:12	1°♑45'45	0°32'17
max. Earth dist.	10982 Jan 01 21:24	13°♑20'04	2.63228 AU
	10982 Jan 27 19:01	0°♒	
morning rise	10982 Jan 31 00:35	2°♒03'40	
desc. node	10982 Feb 13 19:58	10°♒49'32	
	10982 Mar 16 09:20	0°♓	
	10982 May 04 04:01	0°♈	
	10982 Jun 23 19:45	0°♉	
	10982 Aug 19 00:50	0°♊	
retrograde	10982 Oct 24 12:39	19°♊26'50	
opposition	10982 Nov 26 04:33	13°♊16'01	-4°26'31
greatest brilliancy	10982 Nov 27 16:50	12°♊46'38	-2.5m
min. Earth dist.	10982 Dec 04 15:04	10°♊33'21	0.43916 AU
direct	10982 Dec 31 17:10	5°♊46'15	
asc. node	10983 Feb 10 03:59	15°♊54'34	
	10983 Mar 08 16:33	0°♋	
	10983 Apr 22 22:30	0°♌	
	10983 Jun 03 10:32	0°♍	
	10983 Jul 14 18:03	0°♎	
	10983 Aug 26 04:20	0°♏	
	10983 Oct 09 05:30	0°♐	
	10983 Nov 23 20:30	0°♑	
evening set	10983 Dec 07 04:05	8°♑35'57	
desc. node	10984 Jan 01 14:30	24°♑53'31	
	10984 Jan 09 14:56	0°♒	
conjunction	10984 Jan 22 02:53	7°♒56'50	-0°10'55
minimum elong	10984 Jan 22 02:33	7°♒56'18	0°10'23
behind sun begin	10984 Jan 21 12:14	7°♒33'34	
behind sun end	10984 Jan 22 16:53	8°♒19'02	
max. Earth dist.	10984 Jan 24 23:21	9°♒45'30	2.67971 AU
	10984 Feb 25 21:30	0°♓	
morning rise	10984 Mar 05 19:10	5°♓38'37	
	10984 Apr 13 02:52	0°♈	
	10984 May 29 23:44	0°♉	
	10984 Jul 15 12:13	0°♊	
	10984 Aug 31 02:14	0°♋	
	10984 Oct 18 08:02	0°♌	
	10984 Dec 19 20:40	0°♍	
asc. node	10984 Dec 28 07:54	2°♍01'25	
retrograde	10985 Jan 12 01:21	3°♍27'47	
	10985 Feb 04 21:36	30°℞♌	

min. Earth dist.	10985 Feb 08 18:33	28°♌58'50	0.36618 AU	
opposition	10985 Feb 11 06:42	28°♌18'25	3°23'57	
greatest brilliancy	10985 Feb 10 20:45	28°♌25'06	-3.0m	
direct	10985 Mar 12 09:37	23°♌27'03		
	10985 Apr 14 09:17	0°♍		
	10985 Jun 12 08:57	0°♎		
	10985 Jul 31 01:32	0°♏		
	10985 Sep 16 14:54	0°♐		
	10985 Nov 03 08:50	0°♑		
desc. node	10985 Nov 18 13:38	9°♑30'53		
	10985 Dec 21 06:53	0°♒		
evening set	10986 Jan 12 00:08	13°♒38'42		
	10986 Feb 06 20:48	0°♓		
max. Earth dist.	10986 Feb 15 09:34	5°♓25'49	2.67181 AU	
conjunction	10986 Feb 25 04:36	11°♓41'31	-0°47'37	
minimum elong	10986 Feb 25 03:31	11°♓39'47	0°47'22	
	10986 Mar 25 12:57	0°♈		
morning rise	10986 Apr 09 22:52	10°♈05'12		
	10986 May 09 21:48	0°♉		
	10986 Jun 22 19:18	0°♊		
	10986 Aug 04 06:35	0°♋		
	10986 Sep 14 13:51	0°♌		
	10986 Oct 25 09:45	0°♍		
asc. node	10986 Nov 15 05:56	15°♍07'23		
	10986 Dec 06 08:46	0°♎		
	10987 Jan 23 12:44	0°♏		
retrograde	10987 Mar 17 02:34	16°♏13'46		
min. Earth dist.	10987 Apr 14 09:36	10°♏41'21	0.47438 AU	
greatest brilliancy	10987 Apr 21 04:10	8°♏16'25	-2.3m	
opposition	10987 Apr 22 19:32	7°♏41'08	5°42'01	
direct	10987 May 26 02:15	0°♏45'14		
	10987 Aug 19 10:49	0°♐		
desc. node	10987 Oct 06 18:01	26°♐42'17		
	10987 Oct 12 10:48	0°♑		
	10987 Dec 01 23:49	0°♒		
	10988 Jan 19 14:47	0°♓		
evening set	10988 Feb 16 17:44	17°♓53'51		
	10988 Mar 06 08:33	0°♈		
max. Earth dist.	10988 Mar 10 06:43	2°♈34'42	2.60954 AU	
conjunction	10988 Apr 02 05:50	17°♈52'20	-1°08'04	
minimum elong	10988 Apr 02 05:23	17°♈51'34	1°08'12	
	10988 Apr 20 01:45	0°♉		
morning rise	10988 May 20 02:29	20°♉57'17		
	10988 Jun 01 18:35	0°♊		
	10988 Jul 12 16:40	0°♋		
	10988 Aug 21 06:14	0°♌		
	10988 Sep 29 03:03	0°♍		
asc. node	10988 Oct 01 22:43	2°♍10'45		
	10988 Nov 07 05:28	0°♎		
	10988 Dec 17 21:35	0°♏		
	10989 Jan 31 16:28	0°♐		
	10989 Apr 03 17:44	0°♑		
retrograde	10989 Apr 28 06:59	3°♑45'08		
	10989 May 21 11:56	30°℞♐		
min. Earth dist.	10989 Jun 01 13:23	26°♐02'43	0.60072 AU	
opposition	10989 Jun 07 03:02	23°♐51'29	2°52'59	
greatest brilliancy	10989 Jun 06 13:53	24°♐04'25	-1.6m	
direct	10989 Jul 14 20:04	15°♐12'39		
desc. node	10989 Aug 24 00:53	23°♐14'37		
	10989 Sep 10 07:18	0°♑		
	10989 Nov 08 23:14	0°♒		
	10989 Dec 30 07:19	0°♓		
	10990 Feb 15 20:32	0°♈		
evening set	10990 Mar 27 07:26	26°♈25'52		
	10990 Apr 01 11:30	0°♉		

max. Earth dist.	10990 Apr 10 13:05	6°♉19'14	2.49800 AU	
	10990 May 13 14:26	0°♊		
conjunction	10990 May 17 17:43	3°♊01'55	-0°55'57	
minimum elong	10990 May 17 19:37	3°♊05'24	0°56'29	
	10990 Jun 22 17:29	0°♋		
morning rise	10990 Jul 16 14:09	18°♋22'42		
	10990 Jul 31 11:47	0°♌		
asc. node	10990 Aug 19 15:57	15°♌03'17		
	10990 Sep 07 15:38	0°♍		
	10990 Oct 16 01:53	0°♎		
	10990 Nov 24 17:32	0°♏		
	10991 Jan 05 17:52	0°♐		
	10991 Feb 21 00:16	0°♑		
	10991 Apr 19 23:56	0°♒		
retrograde	10991 Jun 02 17:55	9°♒53'10		
min. Earth dist.	10991 Jul 11 15:14	0°♒41'32	0.67188 AU	
desc. node	10991 Jul 12 04:59	0°♒27'54		
opposition	10991 Jul 13 10:46	29°♑58'19	-0°02'39	
greatest brilliancy	10991 Jul 13 10:46	29°♑58'19	-1.4m	
	10991 Jul 13 09:04	30°℞♑		
direct	10991 Aug 22 20:23	20°♑24'28		
	10991 Oct 06 17:36	0°♒		
	10991 Dec 08 00:59	0°♓		
	10992 Jan 27 02:54	0°♈		
	10992 Mar 12 08:38	0°♉		
	10992 Apr 23 08:57	0°♊		
evening set	10992 May 16 11:20	17°♊15'58		
	10992 Jun 02 03:02	0°♋		
max. Earth dist.	10992 Jun 24 08:50	17°♋18'15	2.36884 AU	
asc. node	10992 Jul 06 11:16	26°♋49'17		
	10992 Jul 10 11:53	0°♌		
conjunction	10992 Jul 21 00:24	8°♌19'31	0°10'34	
minimum elong	10992 Jul 20 23:18	8°♌17'21	0°10'01	
behind sun begin	10992 Jul 19 23:14	7°♌29'43		
behind sun end	10992 Jul 21 23:22	9°♌04'59		
	10992 Aug 17 08:56	0°♍		
	10992 Sep 24 15:36	0°♎		
morning rise	10992 Oct 02 21:02	6°♎20'37		
	10992 Nov 03 04:07	0°♏		
	10992 Dec 14 17:03	0°♐		
	10993 Jan 28 01:19	0°♑		
	10993 Mar 17 13:24	0°♒		
	10993 May 15 03:45	0°♓		
desc. node	10993 May 29 03:36	5°♓20'03		
retrograde	10993 Jul 05 22:17	12°♓34'16		
opposition	10993 Aug 15 02:54	3°♓07'52	-2°34'34	
greatest brilliancy	10993 Aug 15 06:02	3°♓04'48	-1.3m	
min. Earth dist.	10993 Aug 17 02:41	2°♓20'56	0.67780 AU	
	10993 Aug 23 04:59	30°℞♒		
direct	10993 Sep 25 17:43	23°♒07'30		
	10993 Nov 01 07:37	0°♓		
	10994 Jan 02 22:42	0°♈		
	10994 Feb 19 15:50	0°♉		
	10994 Apr 03 07:05	0°♊		
	10994 May 13 02:22	0°♋		
asc. node	10994 May 24 09:29	8°♋46'06		
	10994 Jun 20 09:23	0°♌		
evening set	10994 Jul 27 20:44	29°♌41'02		
	10994 Jul 28 06:20	0°♍		
	10994 Sep 04 16:24	0°♎		
conjunction	10994 Oct 05 07:43	23°♎13'35	1°05'50	
minimum elong	10994 Oct 05 06:54	23°♎12'04	1°06'02	
	10994 Oct 14 10:54	0°♏		
max. Earth dist.	10994 Nov 20 03:24	26°♏27'57	2.47871 AU	

	10994 Nov 25 04:07	0°♐	
morning rise	10994 Dec 04 20:38	6°♐44'34	
	10995 Jan 08 05:00	0°♑	
	10995 Feb 23 20:11	0°♒	
	10995 Apr 14 21:12	0°♓	
desc. node	10995 Apr 15 21:43	0°♓34'59	
	10995 Jun 11 15:55	0°♈	
retrograde	10995 Aug 12 18:58	16°♈44'50	
opposition	10995 Sep 20 03:22	8°♈10'30	-4°35'11
greatest brilliancy	10995 Sep 21 00:26	7°♈50'22	-1.5m
min. Earth dist.	10995 Sep 25 22:43	5°♈57'34	0.61716 AU
	10995 Oct 15 00:46	30°℞♓	
direct	10995 Oct 31 07:15	28°♓15'15	
	10995 Nov 17 05:07	0°♈	
	10996 Jan 24 22:20	0°♉	
	10996 Mar 10 17:09	0°♊	
asc. node	10996 Apr 10 13:57	22°♊29'16	
	10996 Apr 20 12:50	0°♋	
	10996 May 29 07:08	0°♌	
	10996 Jul 06 13:29	0°♍	
	10996 Aug 14 10:58	0°♎	
	10996 Sep 23 19:10	0°♏	
evening set	10996 Oct 03 20:50	7°♏16'50	
	10996 Nov 05 01:46	0°♐	
conjunction	10996 Nov 28 05:58	15°♐51'01	0°46'54
minimum elong	10996 Nov 28 07:32	15°♐53'41	0°47'30
	10996 Dec 19 09:57	0°♑	
max. Earth dist.	10996 Dec 22 17:31	2°♑11'28	2.59890 AU
morning rise	10997 Jan 16 13:15	18°♑23'28	
	10997 Feb 03 15:40	0°♒	
desc. node	10997 Mar 02 12:41	16°♒56'55	
	10997 Mar 23 14:12	0°♓	
	10997 May 12 12:22	0°♈	
	10997 Jul 05 13:23	0°♉	
retrograde	10997 Sep 29 16:12	28°♉39'26	
opposition	10997 Nov 03 08:02	21°♉36'54	-5°14'57
greatest brilliancy	10997 Nov 05 00:41	21°♉01'19	-2.1m
min. Earth dist.	10997 Nov 12 00:30	18°♉35'15	0.49562 AU
direct	10997 Dec 11 09:02	12°♉58'06	
	10998 Feb 04 15:31	0°♊	
asc. node	10998 Feb 26 19:56	12°♊53'53	
	10998 Mar 24 14:11	0°♋	
	10998 May 04 21:04	0°♌	
	10998 Jun 13 16:06	0°♍	
	10998 Jul 23 20:20	0°♎	
	10998 Sep 03 09:20	0°♏	
	10998 Oct 16 17:33	0°♐	
evening set	10998 Nov 21 10:34	23°♐49'35	
	10998 Nov 30 20:33	0°♑	
conjunction	10999 Jan 08 00:23	24°♑40'04	0°05'29
minimum elong	10999 Jan 08 00:36	24°♑40'23	0°06'04
behind sun begin	10999 Jan 07 06:44	24°♑11'48	
behind sun end	10999 Jan 08 18:27	25°♑08'57	
max. Earth dist.	10999 Jan 16 09:35	0°♒01'33	2.66768 AU
	10999 Jan 16 08:37	0°♒	
desc. node	10999 Jan 18 04:45	1°♒10'22	
morning rise	10999 Feb 21 12:33	22°♒57'29	
	10999 Mar 04 16:06	0°♓	
	10999 Apr 21 08:00	0°♈	
	10999 Jun 08 05:29	0°♉	
	10999 Jul 26 19:13	0°♊	
	10999 Sep 15 21:23	0°♋	
	10999 Nov 26 00:55	0°♌	
retrograde	10999 Dec 11 07:43	1°♌26'19	
	10999 Dec 26 08:38	30°℞♋	
opposition	11000 Jan 10 03:01	26°♋28'21	-0°22'20
greatest brilliancy	11000 Jan 10 04:58	26°♋27'02	-3.0m
min. Earth dist.	11000 Jan 13 16:00	25°♋30'42	0.37274 AU
asc. node	11000 Jan 14 23:00	25°♋09'55	
direct	11000 Feb 09 19:33	21°♋07'42	
	11000 Mar 19 17:37	0°♌	
	11000 May 12 20:28	0°♍	
	11000 Jun 27 12:29	0°♎	
	11000 Aug 11 10:47	0°♏	
	11000 Sep 26 03:05	0°♐	
	11000 Nov 11 19:36	0°♑	
desc. node	11000 Dec 06 02:14	15°♑24'36	
	11000 Dec 29 04:01	0°♒	
evening set	11000 Dec 30 01:29	0°♒33'55	
max. Earth dist.	11001 Feb 07 15:43	25°♒36'58	2.68147 AU
conjunction	11001 Feb 12 14:04	28°♒44'52	-0°34'46
minimum elong	11001 Feb 12 13:09	28°♒43'24	0°34'23
	11001 Feb 14 13:22	0°♓	
morning rise	11001 Mar 27 22:38	26°♓29'24	
	11001 Apr 02 09:00	0°♈	
	11001 May 18 04:52	0°♉	
	11001 Jul 01 20:56	0°♊	
	11001 Aug 14 09:48	0°♋	
	11001 Sep 26 02:45	0°♌	
	11001 Nov 08 00:23	0°♍	
asc. node	11001 Dec 02 22:47	16°♍39'22	
	11001 Dec 24 16:36	0°♎	
retrograde	11002 Feb 24 17:30	21°♎37'21	
min. Earth dist.	11002 Mar 23 00:45	16°♎56'18	0.42067 AU
greatest brilliancy	11002 Mar 29 08:31	14°♎53'29	-2.6m
opposition	11002 Mar 31 01:33	14°♎19'57	6°03'37
direct	11002 May 01 07:11	8°♎20'37	
	11002 Jul 09 01:54	0°♏	
	11002 Sep 01 14:54	0°♐	
	11002 Oct 22 03:29	0°♑	
desc. node	11002 Oct 24 05:51	1°♑16'01	
	11002 Dec 10 08:53	0°♒	
	11003 Jan 27 11:23	0°♓	
evening set	11003 Feb 03 16:20	4°♓34'00	
max. Earth dist.	11003 Mar 02 15:00	21°♓51'11	2.64016 AU
	11003 Mar 15 03:10	0°♈	
conjunction	11003 Mar 20 06:22	3°♈22'06	-1°02'54
minimum elong	11003 Mar 20 05:27	3°♈20'37	1°02'53
	11003 Apr 29 01:11	0°♉	
morning rise	11003 May 04 21:17	3°♉59'26	
	11003 Jun 11 03:31	0°♊	
	11003 Jul 22 13:24	0°♋	
	11003 Aug 31 15:23	0°♌	
	11003 Oct 10 00:18	0°♍	
asc. node	11003 Oct 20 18:39	8°♍12'06	
	11003 Nov 18 16:53	0°♎	
	11003 Dec 30 11:53	0°♏	
	11004 Feb 17 06:07	0°♐	
retrograde	11004 Apr 13 22:01	17°♐28'43	
min. Earth dist.	11004 May 15 22:55	10°♐32'21	0.55643 AU
opposition	11004 May 22 21:41	7°♐51'58	4°04'30
greatest brilliancy	11004 May 21 22:35	8°♐14'15	-1.9m
	11004 Jun 22 02:36	30°℞♏	
direct	11004 Jun 28 03:02	29°♏45'57	
	11004 Jul 04 06:37	0°♐	
desc. node	11004 Sep 10 11:50	22°♐33'57	
	11004 Sep 25 09:04	0°♑	
	11004 Nov 18 17:37	0°♒	
	11005 Jan 07 16:46	0°♓	
	11005 Feb 23 20:05	0°♈	

evening set	11005 Mar 12 01:37	10°♈43'32	
max. Earth dist.	11005 Mar 28 21:06	22°♈03'46	2.54672 AU
	11005 Apr 09 10:46	0°♉	
conjunction	11005 Apr 29 10:06	13°♉58'19	-1°06'04
minimum elong	11005 Apr 29 10:57	13°♉59'50	1°06'27
	11005 May 21 18:16	0°♊	
morning rise	11005 Jun 22 06:27	23°♊17'45	
	11005 Jul 01 03:44	0°♋	
	11005 Aug 09 04:28	0°♌	
asc. node	11005 Sep 06 10:13	22°♌03'41	
	11005 Sep 16 13:30	0°♍	
	11005 Oct 25 03:46	0°♎	
	11005 Dec 04 00:30	0°♏	
	11006 Jan 15 13:51	0°♐	
	11006 Mar 04 21:43	0°♑	
retrograde	11006 May 21 09:38	26°♑45'26	
min. Earth dist.	11006 Jun 27 15:40	18°♑04'35	0.65164 AU
opposition	11006 Jun 30 22:38	16°♑46'10	1°02'47
greatest brilliancy	11006 Jun 30 19:53	16°♑48'54	-1.4m
desc. node	11006 Jul 29 17:04	8°♑13'39	
direct	11006 Aug 09 11:07	7°♑29'49	
	11006 Oct 23 06:53	0°♒	
	11006 Dec 17 23:01	0°♓	
	11007 Feb 04 17:46	0°♈	
	11007 Mar 21 15:32	0°♉	
evening set	11007 Apr 26 09:07	25°♉24'02	
	11007 May 02 15:54	0°♊	
max. Earth dist.	11007 May 12 09:08	7°♊11'14	2.41451 AU
	11007 Jun 11 12:38	0°♋	
conjunction	11007 Jun 24 11:01	9°♋59'29	-0°21'43
minimum elong	11007 Jun 24 12:53	10°♋03'07	0°22'18
	11007 Jul 20 00:24	0°♌	
asc. node	11007 Jul 25 04:29	4°♌04'39	
	11007 Aug 26 23:10	0°♍	
morning rise	11007 Sep 03 10:23	5°♍53'38	
	11007 Oct 04 06:04	0°♎	
	11007 Nov 12 18:09	0°♏	
	11007 Dec 24 08:21	0°♐	
	11008 Feb 07 02:15	0°♑	
	11008 Mar 28 07:56	0°♒	
desc. node	11008 Jun 15 18:01	29°♒47'31	
	11008 Jun 18 11:24	0°♓	
retrograde	11008 Jun 23 11:54	0°♓09'12	
	11008 Jun 28 10:37	30°℞♒	
opposition	11008 Aug 03 00:53	20°♒29'10	-1°38'55
greatest brilliancy	11008 Aug 03 00:44	20°♒29'19	-1.3m
min. Earth dist.	11008 Aug 03 12:50	20°♒17'22	0.68351 AU
direct	11008 Sep 13 08:21	10°♒36'09	
	11008 Nov 19 17:21	0°♓	
	11009 Jan 13 08:41	0°♈	
	11009 Feb 28 18:09	0°♉	
	11009 Apr 12 01:17	0°♊	
	11009 May 21 18:57	0°♋	
asc. node	11009 Jun 11 02:46	15°♋50'13	
evening set	11009 Jun 28 08:07	29°♋24'59	
	11009 Jun 29 01:49	0°♌	
	11009 Aug 05 21:47	0°♍	
conjunction	11009 Sep 08 07:33	26°♍12'14	0°54'54
minimum elong	11009 Sep 08 04:08	26°♍05'36	0°54'45
	11009 Sep 13 05:15	0°♎	
	11009 Oct 22 19:58	0°♏	
max. Earth dist.	11009 Oct 31 15:14	6°♏29'12	2.42193 AU
morning rise	11009 Nov 14 11:23	16°♏32'27	
	11009 Dec 03 09:38	0°♐	
	11010 Jan 16 10:22	0°♑	
	11010 Mar 04 11:42	0°♒	
	11010 Apr 25 07:03	0°♓	
desc. node	11010 May 03 13:20	4°♓22'13	
	11010 Jul 05 00:14	0°♈	
retrograde	11010 Jul 29 06:52	3°♈10'49	
	11010 Aug 20 20:38	30°℞♓	
opposition	11010 Sep 06 12:48	24°♓12'51	-3°53'31
greatest brilliancy	11010 Sep 07 01:31	24°♓00'33	-1.4m
min. Earth dist.	11010 Sep 10 20:43	22°♓32'15	0.64877 AU
direct	11010 Oct 18 02:36	14°♓10'33	
	11010 Dec 14 14:20	0°♈	
	11011 Feb 05 18:38	0°♉	
	11011 Mar 21 18:21	0°♊	
asc. node	11011 Apr 29 04:13	28°♊35'24	
	11011 May 01 00:24	0°♋	
	11011 Jun 08 12:20	0°♌	
	11011 Jul 16 13:29	0°♍	
	11011 Aug 24 04:56	0°♎	
evening set	11011 Sep 11 16:41	14°♎00'37	
	11011 Oct 03 06:09	0°♏	
conjunction	11011 Nov 11 04:57	27°♏52'58	0°59'18
minimum elong	11011 Nov 11 06:29	27°♏55'38	0°59'48
	11011 Nov 14 05:44	0°♐	
max. Earth dist.	11011 Dec 13 09:11	19°♐58'25	2.55707 AU
	11011 Dec 28 09:02	0°♑	
morning rise	11012 Jan 02 22:18	3°♑40'25	
	11012 Feb 12 15:26	0°♒	
desc. node	11012 Mar 20 04:45	22°♒45'51	
	11012 Apr 01 02:44	0°♓	
	11012 May 22 19:10	0°♈	
	11012 Jul 23 05:48	0°♉	
retrograde	11012 Sep 09 15:21	11°♉02'11	
opposition	11012 Oct 16 00:17	3°♉17'18	-5°17'18
greatest brilliancy	11012 Oct 17 11:26	2°♉45'03	-1.8m
min. Earth dist.	11012 Oct 23 21:15	0°♉24'22	0.54897 AU
	11012 Oct 25 00:37	30°℞♈	
direct	11012 Nov 24 17:23	23°♈55'00	
	11012 Dec 26 11:54	0°♉	
	11013 Feb 21 20:55	0°♊	
asc. node	11013 Mar 16 08:51	15°♊08'28	
	11013 Apr 06 01:49	0°♋	
	11013 May 15 20:37	0°♌	
	11013 Jun 23 19:18	0°♍	
	11013 Aug 02 07:24	0°♎	
	11013 Sep 12 06:04	0°♏	
	11013 Oct 25 01:50	0°♐	
evening set	11013 Nov 05 04:58	7°♐34'45	
	11013 Dec 08 19:30	0°♑	
conjunction	11013 Dec 25 02:30	10°♑39'17	0°22'09
minimum elong	11013 Dec 25 03:18	10°♑40'35	0°22'46
max. Earth dist.	11014 Jan 08 09:10	19°♑53'41	2.64719 AU
	11014 Jan 24 03:08	0°♒	
desc. node	11014 Feb 04 20:54	7°♒28'41	
morning rise	11014 Feb 08 23:37	10°♒05'21	
	11014 Mar 12 13:49	0°♓	
	11014 Apr 29 20:42	0°♈	
	11014 Jun 18 06:29	0°♉	
	11014 Aug 09 12:31	0°♊	
	11014 Oct 16 20:15	0°♋	
retrograde	11014 Nov 10 09:19	3°♋26'38	
	11014 Dec 04 06:23	30°℞♊	
opposition	11014 Dec 11 23:03	27°♊45'59	-3°25'05
greatest brilliancy	11014 Dec 13 01:40	27°♊25'45	-2.7m
min. Earth dist.	11014 Dec 19 11:41	25°♊29'51	0.41065 AU

direct	11015 Jan 14 17:26	21°♊03'38	
asc. node	11015 Feb 01 14:24	23°♊14'36	
	11015 Feb 21 09:54	0°♋	
	11015 Apr 14 21:48	0°♌	
	11015 May 28 06:46	0°♍	
	11015 Jul 09 13:20	0°♎	
	11015 Aug 21 14:54	0°♏	
	11015 Oct 05 02:44	0°♐	
	11015 Nov 20 01:05	0°♑	
evening set	11015 Dec 16 16:33	17°♑05'07	
desc. node	11015 Dec 23 16:04	21°♑32'08	
	11016 Jan 05 23:25	0°♒	
conjunction	11016 Jan 30 23:50	15°♒52'22	-0°20'06
minimum elong	11016 Jan 30 23:15	15°♒51'26	0°19'38
max. Earth dist.	11016 Jan 30 23:10	15°♒51'18	2.68262 AU
	11016 Feb 22 06:22	0°♓	
morning rise	11016 Mar 14 10:17	13°♓27'24	
	11016 Apr 09 07:32	0°♈	
	11016 May 25 18:00	0°♉	
	11016 Jul 10 11:38	0°♊	
	11016 Aug 24 16:06	0°♋	
	11016 Oct 09 00:35	0°♌	
	11016 Nov 26 15:02	0°♍	
asc. node	11016 Dec 19 15:30	11°♍43'33	
retrograde	11017 Jan 29 23:30	22°♍05'51	
min. Earth dist.	11017 Feb 25 01:31	17°♍49'12	0.37862 AU
greatest brilliancy	11017 Mar 01 08:19	16°♍36'32	-2.9m
opposition	11017 Mar 02 08:55	16°♍19'01	4°58'03
direct	11017 Mar 31 21:10	11°♍13'05	
	11017 Jun 01 03:54	0°♎	
	11017 Jul 24 12:17	0°♏	
	11017 Sep 11 16:14	0°♐	
	11017 Oct 30 04:42	0°♑	
desc. node	11017 Nov 09 17:04	6°♑30'59	
	11017 Dec 17 12:04	0°♒	
evening set	11018 Jan 20 20:37	21°♒31'50	
	11018 Feb 03 05:59	0°♓	
max. Earth dist.	11018 Feb 21 12:27	11°♓38'43	2.66287 AU
conjunction	11018 Mar 06 01:15	19°♓42'22	-0°54'06
minimum elong	11018 Mar 06 00:09	19°♓40'36	0°53'57
	11018 Mar 21 21:58	0°♈	
morning rise	11018 Apr 19 07:04	18°♈42'40	
	11018 May 06 02:46	0°♉	
	11018 Jun 18 16:59	0°♊	
	11018 Jul 30 17:58	0°♋	
	11018 Sep 09 12:48	0°♌	
	11018 Oct 19 16:27	0°♍	
asc. node	11018 Nov 06 12:10	13°♍14'40	
	11018 Nov 29 11:31	0°♎	
	11019 Jan 12 21:12	0°♏	
retrograde	11019 Mar 28 20:37	28°♏47'22	
min. Earth dist.	11019 Apr 27 11:29	22°♏43'52	0.50513 AU
greatest brilliancy	11019 May 04 03:05	20°♏16'35	-2.1m
opposition	11019 May 05 13:10	19°♏44'59	5°11'21
direct	11019 Jun 08 23:58	12°♏20'56	
	11019 Aug 10 11:41	0°♐	
desc. node	11019 Sep 27 22:43	24°♐52'15	
	11019 Oct 07 03:56	0°♑	
	11019 Nov 27 18:42	0°♒	
	11020 Jan 15 19:55	0°♓	
evening set	11020 Feb 25 23:07	26°♓14'34	
	11020 Mar 02 17:11	0°♈	
max. Earth dist.	11020 Mar 17 07:36	9°♈38'29	2.58943 AU
conjunction	11020 Apr 12 05:47	27°♈08'22	-1°09'01
minimum elong	11020 Apr 12 05:44	27°♈08'16	1°09'15
	11020 Apr 16 09:49	0°♉	
	11020 May 28 23:49	0°♊	
morning rise	11020 May 31 19:42	2°♊02'36	
	11020 Jul 08 17:28	0°♋	
	11020 Aug 17 02:13	0°♌	
asc. node	11020 Sep 23 06:41	28°♌51'15	
	11020 Sep 24 18:03	0°♍	
	11020 Nov 02 14:23	0°♎	
	11020 Dec 12 20:17	0°♏	
	11021 Jan 25 10:32	0°♐	
	11021 Mar 19 15:20	0°♑	
retrograde	11021 May 07 14:11	12°♑48'29	
min. Earth dist.	11021 Jun 11 23:49	4°♑43'13	0.62158 AU
opposition	11021 Jun 16 17:54	2°♑50'25	2°11'40
greatest brilliancy	11021 Jun 16 09:20	2°♑58'54	-1.6m
	11021 Jun 24 03:23	30°℞♐	
direct	11021 Jul 25 03:56	23°♐56'26	
desc. node	11021 Aug 15 04:30	26°♐23'15	
	11021 Aug 28 14:51	0°♑	
	11021 Nov 03 11:43	0°♒	
	11021 Dec 26 01:27	0°♓	
	11022 Feb 12 00:30	0°♈	
	11022 Mar 28 18:06	0°♉	
evening set	11022 Apr 07 05:26	6°♉36'00	
max. Earth dist.	11022 Apr 20 19:25	16°♉13'03	2.46891 AU
	11022 May 09 20:43	0°♊	
conjunction	11022 May 30 22:13	15°♊36'55	-0°46'15
minimum elong	11022 May 31 00:32	15°♊41'15	0°46'50
	11022 Jun 18 21:54	0°♋	
	11022 Jul 27 14:06	0°♌	
morning rise	11022 Aug 02 19:08	4°♌52'38	
asc. node	11022 Aug 10 23:23	11°♌18'55	
	11022 Sep 03 16:03	0°♍	
	11022 Oct 12 00:26	0°♎	
	11022 Nov 20 13:30	0°♏	
	11023 Jan 01 07:43	0°♐	
	11023 Feb 15 18:52	0°♑	
	11023 Apr 10 10:04	0°♒	
retrograde	11023 Jun 11 07:30	17°♒40'59	
desc. node	11023 Jul 03 07:01	14°♒32'17	
min. Earth dist.	11023 Jul 21 00:33	8°♒13'50	0.67878 AU
opposition	11023 Jul 22 00:08	7°♒50'26	-0°39'26
greatest brilliancy	11023 Jul 21 23:15	7°♒51'18	-1.3m
	11023 Aug 14 15:04	30°℞♑	
direct	11023 Aug 31 18:46	28°♑08'35	
	11023 Sep 19 01:36	0°♒	
	11023 Dec 02 10:35	0°♓	
	11024 Jan 22 19:05	0°♈	
	11024 Mar 08 09:51	0°♉	
	11024 Apr 19 12:49	0°♊	
	11024 May 29 06:50	0°♋	
evening set	11024 May 31 11:44	1°♋42'06	
asc. node	11024 Jun 27 18:28	23°♋00'40	
	11024 Jul 06 14:59	0°♌	
conjunction	11024 Aug 08 09:39	25°♌58'51	0°29'18
minimum elong	11024 Aug 08 06:35	25°♌52'47	0°28'51
	11024 Aug 13 11:28	0°♍	
max. Earth dist.	11024 Sep 17 06:51	27°♍19'06	2.37089 AU
	11024 Sep 20 17:53	0°♎	
morning rise	11024 Oct 20 02:15	22°♎24'03	
	11024 Oct 30 06:22	0°♏	
	11024 Dec 10 18:19	0°♐	
	11025 Jan 23 21:38	0°♑	
	11025 Mar 12 16:11	0°♒	

	11025 May 06 15:38	0°♓		
desc. node	11025 May 20 05:21	6°♓10'47		
retrograde	11025 Jul 14 20:29	20°♓17'04		
opposition	11025 Aug 23 18:18	10°♓59'48	-3°05'14	
greatest brilliancy	11025 Aug 24 00:18	10°♓53'56	-1.3m	
min. Earth dist.	11025 Aug 26 14:14	9°♓53'22	0.67033 AU	
direct	11025 Oct 04 10:17	0°♓57'11		
	11025 Dec 27 22:53	0°♈		
	11026 Feb 15 01:37	0°♉		
	11026 Mar 30 03:01	0°♊		
	11026 May 09 01:45	0°♋		
asc. node	11026 May 15 19:11	5°♋11'57		
	11026 Jun 16 10:10	0°♌		
	11026 Jul 24 08:02	0°♍		
evening set	11026 Aug 14 19:56	16°♍51'53		
	11026 Aug 31 19:04	0°♎		
	11026 Oct 10 14:52	0°♏		
conjunction	11026 Oct 20 07:14	7°♏05'29	1°06'04	
minimum elong	11026 Oct 20 07:42	7°♏06'20	1°06'24	
	11026 Nov 21 09:14	0°♐		
max. Earth dist.	11026 Nov 30 03:46	6°♐06'31	2.50839 AU	
morning rise	11026 Dec 16 15:51	17°♐25'16		
	11027 Jan 04 09:35	0°♑		
	11027 Feb 19 19:43	0°♒		
desc. node	11027 Apr 06 22:33	28°♒07'57		
	11027 Apr 10 02:49	0°♓		
	11027 Jun 03 18:53	0°♈		
retrograde	11027 Aug 23 08:14	25°♈29'17		
opposition	11027 Sep 30 01:35	17°♈10'43	-4°54'51	
greatest brilliancy	11027 Oct 01 03:49	16°♈45'56	-1.6m	
min. Earth dist.	11027 Oct 06 15:51	14°♈41'26	0.59531 AU	
direct	11027 Nov 09 20:00	7°♈23'33		
	11028 Jan 17 11:34	0°♉		
	11028 Mar 05 09:30	0°♊		
asc. node	11028 Apr 01 23:31	19°♊40'48		
	11028 Apr 15 20:14	0°♋		
	11028 May 24 21:26	0°♌		
	11028 Jul 02 08:24	0°♍		
	11028 Aug 10 09:42	0°♎		
	11028 Sep 19 21:33	0°♏		
evening set	11028 Oct 16 22:33	19°♏17'40		
	11028 Nov 01 07:24	0°♐		
conjunction	11028 Dec 09 01:10	25°♐34'07	0°38'17	
minimum elong	11028 Dec 09 02:31	25°♐36'23	0°38'54	
	11028 Dec 15 17:34	0°♑		
max. Earth dist.	11028 Dec 29 16:14	9°♑09'54	2.61832 AU	
morning rise	11029 Jan 25 21:57	26°♑46'51		
	11029 Jan 30 22:45	0°♒		
desc. node	11029 Feb 21 13:00	13°♒41'16		
	11029 Mar 19 15:34	0°♓		
	11029 May 07 20:08	0°♈		
	11029 Jun 28 15:38	0°♉		
	11029 Aug 28 22:12	0°♊		
retrograde	11029 Oct 14 04:07	10°♊26'28		
opposition	11029 Nov 16 17:48	3°♊51'32	-4°54'27	
greatest brilliancy	11029 Nov 18 09:35	3°♊18'00	-2.3m	
min. Earth dist.	11029 Nov 25 11:08	0°♊56'19	0.46411 AU	
	11029 Nov 28 10:40	30°℞♉		
direct	11029 Dec 23 11:11	25°♉47'47		
	11030 Jan 17 17:53	0°♊		
asc. node	11030 Feb 18 04:04	13°♊54'45		
	11030 Mar 16 19:26	0°♋		
	11030 Apr 28 20:10	0°♌		
	11030 Jun 08 10:42	0°♍		
	11030 Jul 19 03:47	0°♎		
	11030 Aug 30 02:41	0°♏		
	11030 Oct 12 18:42	0°♐		
	11030 Nov 27 03:05	0°♑		
evening set	11030 Dec 01 13:01	2°♑52'11		
desc. node	11031 Jan 09 06:47	27°♑47'36		
	11031 Jan 12 17:47	0°♒		
conjunction	11031 Jan 17 03:15	2°♒48'01	-0°04'14	
minimum elong	11031 Jan 17 03:06	2°♒47'47	0°03'40	
behind sun begin	11031 Jan 16 08:41	2°♒18'28		
behind sun end	11031 Jan 17 21:31	3°♒17'05		
max. Earth dist.	11031 Jan 22 11:14	6°♒11'37	2.67538 AU	
	11031 Mar 01 00:23	0°♓		
morning rise	11031 Mar 02 02:47	0°♓41'47		
	11031 Apr 17 10:02	0°♈		
	11031 Jun 03 16:58	0°♉		
	11031 Jul 21 00:34	0°♊		
	11031 Sep 07 03:08	0°♋		
	11031 Oct 29 10:08	0°♌		
retrograde	11031 Dec 30 20:57	19°♌36'36		
asc. node	11032 Jan 06 08:15	19°♌20'13		
opposition	11032 Jan 29 15:20	14°♌41'38	1°49'22	
greatest brilliancy	11032 Jan 29 14:10	14°♌42'25	-3.1m	
min. Earth dist.	11032 Jan 29 20:14	14°♌38'23	0.36439 AU	
direct	11032 Feb 28 03:23	9°♌46'30		
	11032 Apr 30 03:34	0°♍		
	11032 Jun 19 08:35	0°♎		
	11032 Aug 05 00:03	0°♏		
	11032 Sep 20 14:25	0°♐		
	11032 Nov 06 19:39	0°♑		
desc. node	11032 Nov 26 05:16	12°♑13'56		
	11032 Dec 24 11:01	0°♒		
evening set	11033 Jan 07 01:46	8°♒34'14		
	11033 Feb 09 22:59	0°♓		
max. Earth dist.	11033 Feb 12 16:33	1°♓44'14	2.67724 AU	
conjunction	11033 Feb 20 08:14	6°♓36'45	-0°42'33	
minimum elong	11033 Feb 20 07:12	6°♓35'05	0°42'15	
	11033 Mar 28 17:01	0°♈		
morning rise	11033 Apr 04 20:32	4°♈38'49		
	11033 May 13 07:12	0°♉		
	11033 Jun 26 13:16	0°♊		
	11033 Aug 08 11:33	0°♋		
	11033 Sep 19 08:21	0°♌		
	11033 Oct 30 21:39	0°♍		
asc. node	11033 Nov 23 07:29	16°♍32'14		
	11033 Dec 13 04:43	0°♎		
	11034 Feb 05 20:59	0°♏		
retrograde	11034 Mar 09 06:09	6°♏32'38		
min. Earth dist.	11034 Apr 05 12:30	1°♏25'18	0.44967 AU	
	11034 Apr 09 16:40	30°℞♎		
greatest brilliancy	11034 Apr 12 06:11	29°♎06'40	-2.4m	
opposition	11034 Apr 13 24:00	28°♎30'35	5°58'47	
direct	11034 May 16 08:24	21°♎59'24		
	11034 Jun 23 21:50	0°♏		
	11034 Aug 25 04:08	0°♐		
desc. node	11034 Oct 14 08:55	28°♐47'04		
	11034 Oct 16 10:22	0°♑		
	11034 Dec 05 08:44	0°♒		
	11035 Jan 22 18:39	0°♓		
evening set	11035 Feb 11 16:11	12°♓37'49		
max. Earth dist.	11035 Mar 08 04:01	28°♓27'52	2.62423 AU	
	11035 Mar 10 12:22	0°♈		
conjunction	11035 Mar 28 16:24	11°♈59'55	-1°06'26	
minimum elong	11035 Mar 28 15:43	11°♈58'47	1°06'31	
	11035 Apr 24 08:35	0°♉		

morning rise	11035 May 14 09:58	13°♉51'28	
	11035 Jun 06 06:30	0°♊	
	11035 Jul 17 10:23	0°♋	
	11035 Aug 26 05:40	0°♌	
	11035 Oct 04 07:35	0°♍	
asc. node	11035 Oct 11 01:03	5°♍10'24	
	11035 Nov 12 14:45	0°♎	
	11035 Dec 23 14:55	0°♏	
	11036 Feb 07 11:34	0°♐	
retrograde	11036 Apr 22 21:09	27°♐28'12	
min. Earth dist.	11036 May 26 04:13	20°♐05'05	0.58189 AU
opposition	11036 Jun 01 08:27	17°♐40'31	3°23'23
greatest brilliancy	11036 May 31 15:16	17°♐57'18	-1.7m
direct	11036 Jul 08 09:56	9°♐15'22	
desc. node	11036 Aug 31 15:31	22°♐46'04	
	11036 Sep 16 21:21	0°♑	
	11036 Nov 12 22:19	0°♒	
	11037 Jan 02 16:26	0°♓	
	11037 Feb 19 02:31	0°♈	
evening set	11037 Mar 21 03:07	19°♈58'14	
	11037 Apr 04 18:39	0°♉	
max. Earth dist.	11037 Apr 05 07:06	0°♉21'32	2.52057 AU
conjunction	11037 May 10 00:43	24°♉55'04	-1°01'17
minimum elong	11037 May 10 02:11	24°♉57'43	1°01'45
	11037 May 17 00:53	0°♊	
	11037 Jun 26 07:36	0°♋	
morning rise	11037 Jul 05 23:13	7°♋21'55	
	11037 Aug 04 05:06	0°♌	
asc. node	11037 Aug 27 17:41	18°♌25'51	
	11037 Sep 11 11:12	0°♍	
	11037 Oct 19 22:28	0°♎	
	11037 Nov 28 14:47	0°♏	
	11038 Jan 09 18:00	0°♐	
	11038 Feb 25 13:53	0°♑	
	11038 Apr 29 18:47	0°♒	
retrograde	11038 May 29 02:47	4°♒51'43	
	11038 Jun 25 07:39	30°℞♑	
min. Earth dist.	11038 Jul 06 07:00	25°♑53'03	0.66407 AU
opposition	11038 Jul 08 18:03	24°♑54'20	0°24'01
greatest brilliancy	11038 Jul 08 17:19	24°♑55'03	-1.4m
desc. node	11038 Jul 19 20:34	20°♑41'37	
direct	11038 Aug 17 18:18	15°♑27'43	
	11038 Oct 14 01:44	0°♒	
	11038 Dec 12 02:00	0°♓	
	11039 Jan 30 15:28	0°♈	
	11039 Mar 16 19:14	0°♉	
	11039 Apr 27 21:05	0°♊	
evening set	11039 May 08 10:33	7°♊48'55	
max. Earth dist.	11039 May 31 18:54	25°♊26'49	2.38685 AU
	11039 Jun 06 17:21	0°♋	
conjunction	11039 Jul 10 00:48	25°♋57'18	-0°04'01
minimum elong	11039 Jul 10 01:15	25°♋58'12	0°04'36
behind sun begin	11039 Jul 08 21:09	25°♋02'54	
behind sun end	11039 Jul 11 05:22	26°♋53'32	
asc. node	11039 Jul 15 12:25	0°♌16'37	
	11039 Jul 15 04:00	0°♌	
	11039 Aug 22 01:50	0°♍	
morning rise	11039 Sep 21 09:10	23°♍49'18	
	11039 Sep 29 07:56	0°♎	
	11039 Nov 07 18:59	0°♏	
	11039 Dec 19 06:43	0°♐	
	11040 Feb 01 16:15	0°♑	
	11040 Mar 21 16:05	0°♒	
	11040 May 22 23:11	0°♓	
desc. node	11040 Jun 05 20:03	4°♓15'56	
retrograde	11040 Jul 01 03:38	7°♓46'15	
	11040 Aug 05 23:21	30°℞♒	
opposition	11040 Aug 10 12:29	28°♒13'26	-2°12'06
greatest brilliancy	11040 Aug 10 13:54	28°♒12'03	-1.3m
min. Earth dist.	11040 Aug 11 20:33	27°♒41'50	0.68157 AU
direct	11040 Sep 21 00:17	18°♒15'44	
	11040 Nov 09 18:50	0°♓	
	11041 Jan 07 06:56	0°♈	
	11041 Feb 23 11:19	0°♉	
	11041 Apr 07 00:27	0°♊	
	11041 May 16 19:57	0°♋	
asc. node	11041 Jun 01 09:43	12°♋06'08	
	11041 Jun 24 03:19	0°♌	
evening set	11041 Jul 15 09:40	16°♌51'31	
	11041 Jul 31 23:49	0°♍	
	11041 Sep 08 08:05	0°♎	
conjunction	11041 Sep 24 14:07	12°♎26'46	1°02'57
minimum elong	11041 Sep 24 12:05	12°♎22'56	1°03'01
	11041 Oct 17 23:45	0°♏	
max. Earth dist.	11041 Nov 13 03:56	19°♏03'50	2.45361 AU
morning rise	11041 Nov 26 23:34	28°♏52'29	
	11041 Nov 28 13:59	0°♐	
	11042 Jan 11 12:54	0°♑	
	11042 Feb 27 06:10	0°♒	
	11042 Apr 18 20:21	0°♓	
desc. node	11042 Apr 23 14:47	2°♓39'15	
	11042 Jun 18 17:07	0°♈	
retrograde	11042 Aug 06 23:06	11°♈19'10	
opposition	11042 Sep 14 17:43	2°♈33'41	-4°18'37
greatest brilliancy	11042 Sep 15 11:01	2°♈17'03	-1.5m
min. Earth dist.	11042 Sep 19 21:37	0°♈34'33	0.63252 AU
	11042 Sep 21 10:00	30°℞♓	
direct	11042 Oct 26 02:52	22°♓34'01	
	11042 Dec 02 03:19	0°♈	
	11043 Jan 30 02:26	0°♉	
	11043 Mar 16 01:50	0°♊	
asc. node	11043 Apr 19 13:21	25°♊21'31	
	11043 Apr 25 15:56	0°♋	
	11043 Jun 03 07:22	0°♌	
	11043 Jul 11 11:01	0°♍	
	11043 Aug 19 04:53	0°♎	
evening set	11043 Sep 25 20:09	28°♎09'17	
	11043 Sep 28 08:41	0°♏	
	11043 Nov 09 10:52	0°♐	
conjunction	11043 Nov 22 07:58	8°♐53'34	0°52'36
minimum elong	11043 Nov 22 09:37	8°♐56'23	0°53'10
max. Earth dist.	11043 Dec 20 01:10	27°♐36'43	2.58130 AU
	11043 Dec 23 15:25	0°♑	
morning rise	11044 Jan 12 00:07	12°♑43'33	
	11044 Feb 07 20:08	0°♒	
desc. node	11044 Mar 10 05:51	19°♒43'35	
	11044 Mar 26 22:34	0°♓	
	11044 May 16 11:16	0°♈	
	11044 Jul 11 17:01	0°♉	
retrograde	11044 Sep 21 03:29	21°♉12'36	
opposition	11044 Oct 26 14:27	13°♉49'50	-5°19'35
greatest brilliancy	11044 Oct 28 05:21	13°♉14'55	-2.0m
min. Earth dist.	11044 Nov 03 23:32	10°♉49'55	0.52024 AU
direct	11044 Dec 04 10:59	4°♉48'33	
	11045 Feb 12 22:00	0°♊	
asc. node	11045 Mar 06 19:37	13°♊47'32	
	11045 Mar 30 06:24	0°♋	
	11045 May 09 18:46	0°♌	
	11045 Jun 18 03:13	0°♍	
	11045 Jul 27 22:38	0°♎	

	11045 Sep 07 03:26	0°♏	
	11045 Oct 20 04:35	0°♐	
evening set	11045 Nov 15 05:50	17°♐32'50	
	11045 Dec 04 02:03	0°♑	
conjunction	11046 Jan 02 18:00	19°♑16'32	0°12'23
minimum elong	11046 Jan 02 18:27	19°♑17'16	0°13'01
behind sun begin	11046 Jan 02 07:10	18°♑59'06	
behind sun end	11046 Jan 03 05:44	19°♑35'25	
max. Earth dist.	11046 Jan 13 17:53	26°♑20'12	2.65968 AU
	11046 Jan 19 11:18	0°♒	
desc. node	11046 Jan 25 21:03	4°♒05'19	
morning rise	11046 Feb 16 18:56	17°♒59'48	
	11046 Mar 07 19:35	0°♓	
	11046 Apr 24 17:14	0°♈	
	11046 Jun 12 04:45	0°♉	
	11046 Aug 01 01:33	0°♊	
	11046 Sep 24 23:32	0°♋	
retrograde	11046 Nov 27 22:15	19°♋01'39	
opposition	11046 Dec 28 07:51	13°♋48'35	-1°52'33
greatest brilliancy	11046 Dec 28 20:26	13°♋39'40	-2.9m
min. Earth dist.	11047 Jan 03 01:08	12°♋11'32	0.38664 AU
asc. node	11047 Jan 22 23:15	8°♋11'26	
direct	11047 Jan 29 08:00	7°♋54'38	
	11047 Apr 02 22:37	0°♌	
	11047 May 20 02:13	0°♍	
	11047 Jul 02 21:17	0°♎	
	11047 Aug 15 19:42	0°♏	
	11047 Sep 29 21:11	0°♐	
	11047 Nov 15 04:08	0°♑	
desc. node	11047 Dec 13 17:41	18°♑13'12	
evening set	11047 Dec 24 23:48	25°♑21'45	
	11048 Jan 01 07:22	0°♒	
max. Earth dist.	11048 Feb 05 00:16	21°♒58'55	2.68303 AU
conjunction	11048 Feb 07 19:08	23°♒44'55	-0°28'55
minimum elong	11048 Feb 07 18:20	23°♒43'38	0°28'29
	11048 Feb 17 15:33	0°♓	
morning rise	11048 Mar 22 02:54	21°♓21'15	
	11048 Apr 04 13:43	0°♈	
	11048 May 20 16:16	0°♉	
	11048 Jul 04 19:16	0°♊	
	11048 Aug 18 00:01	0°♋	
	11048 Sep 30 15:52	0°♌	
	11048 Nov 14 05:13	0°♍	
asc. node	11048 Dec 09 23:35	15°♍59'48	
	11049 Jan 05 19:17	0°♎	
retrograde	11049 Feb 14 02:16	9°♎45'44	
min. Earth dist.	11049 Mar 11 23:34	5°♎21'02	0.39943 AU
greatest brilliancy	11049 Mar 17 15:16	3°♎37'20	-2.8m
opposition	11049 Mar 19 03:39	3°♎09'15	5°50'20
	11049 Mar 30 09:18	30°℞♍	
direct	11049 Apr 18 12:54	27°♍35'54	
	11049 May 08 03:59	0°♎	
	11049 Jul 15 16:12	0°♏	
	11049 Sep 05 07:45	0°♐	
	11049 Oct 24 20:29	0°♑	
desc. node	11049 Oct 30 20:51	3°♑40'33	
	11049 Dec 12 15:33	0°♒	
evening set	11050 Jan 28 18:07	29°♒27'47	
	11050 Jan 29 14:29	0°♓	
max. Earth dist.	11050 Feb 26 19:52	18°♓01'19	2.65135 AU
conjunction	11050 Mar 14 02:22	27°♓55'09	-0°59'39
minimum elong	11050 Mar 14 01:21	27°♓53'29	0°59'35
	11050 Mar 17 06:55	0°♈	
morning rise	11050 Apr 28 00:19	27°♈43'37	
	11050 May 01 08:49	0°♉	
	11050 Jun 13 17:09	0°♊	
	11050 Jul 25 10:19	0°♋	
	11050 Sep 03 19:40	0°♌	
	11050 Oct 13 12:04	0°♍	
asc. node	11050 Oct 27 20:30	10°♍50'25	
	11050 Nov 22 13:28	0°♎	
	11051 Jan 04 02:39	0°♏	
	11051 Feb 25 13:57	0°♐	
retrograde	11051 Apr 07 20:15	10°♐13'44	
min. Earth dist.	11051 May 08 19:22	3°♐39'52	0.53422 AU
greatest brilliancy	11051 May 15 03:01	1°♐16'15	-2.0m
opposition	11051 May 16 06:52	0°♐49'44	4°34'18
	11051 May 18 11:39	30°℞♏	
direct	11051 Jun 20 18:04	23°♏01'06	
	11051 Jul 27 06:36	0°♐	
desc. node	11051 Sep 18 02:30	23°♐33'01	
	11051 Sep 30 07:58	0°♑	
	11051 Nov 22 09:37	0°♒	
	11052 Jan 10 23:35	0°♓	
	11052 Feb 27 01:06	0°♈	
evening set	11052 Mar 05 11:10	4°♈52'21	
max. Earth dist.	11052 Mar 23 18:36	17°♈04'46	2.56660 AU
	11052 Apr 11 17:47	0°♉	
conjunction	11052 Apr 21 18:52	6°♉57'45	-1°08'06
minimum elong	11052 Apr 21 19:19	6°♉58'31	1°08'27
	11052 May 24 05:10	0°♊	
morning rise	11052 Jun 12 12:55	14°♊07'49	
	11052 Jul 03 19:09	0°♋	
	11052 Aug 11 23:50	0°♌	
asc. node	11052 Sep 13 12:34	25°♌20'14	
	11052 Sep 19 11:54	0°♍	
	11052 Oct 28 04:13	0°♎	
	11052 Dec 07 03:05	0°♏	
	11053 Jan 18 23:11	0°♐	
	11053 Mar 09 14:06	0°♑	
retrograde	11053 May 15 14:17	21°♑23'25	
min. Earth dist.	11053 Jun 21 00:40	12°♑57'40	0.63936 AU
opposition	11053 Jun 24 23:11	11°♑23'51	1°31'08
greatest brilliancy	11053 Jun 24 18:18	11°♑28'42	-1.5m
direct	11053 Aug 02 23:53	2°♑16'53	
desc. node	11053 Aug 05 08:11	2°♑18'54	
	11053 Oct 27 09:45	0°♒	
	11053 Dec 20 16:03	0°♓	
	11054 Feb 07 03:17	0°♈	
	11054 Mar 24 00:40	0°♉	
evening set	11054 Apr 17 18:23	17°♉24'49	
max. Earth dist.	11054 May 01 18:13	27°♉31'58	2.43863 AU
	11054 May 05 03:11	0°♊	
conjunction	11054 Jun 13 06:32	29°♊21'18	-0°33'25
minimum elong	11054 Jun 13 08:51	29°♊25'44	0°34'01
	11054 Jun 14 02:45	0°♋	
	11054 Jul 22 16:44	0°♌	
asc. node	11054 Aug 01 05:37	7°♌30'40	
morning rise	11054 Aug 20 07:47	22°♌35'34	
	11054 Aug 29 16:49	0°♍	
	11054 Oct 06 23:47	0°♎	
	11054 Nov 15 11:01	0°♏	
	11054 Dec 27 01:06	0°♐	
	11055 Feb 09 22:53	0°♑	
	11055 Apr 02 03:43	0°♒	
retrograde	11055 Jun 18 20:54	25°♒20'51	
desc. node	11055 Jun 23 10:25	25°♒12'59	
opposition	11055 Jul 29 11:39	15°♒35'49	-1°14'48
greatest brilliancy	11055 Jul 29 10:49	15°♒36'38	-1.3m

min. Earth dist.	11055 Jul 29 07:51	15°♒39'34	0.68271 AU
direct	11055 Sep 08 13:24	5°♒47'20	
	11055 Nov 25 02:47	0°♓	
	11056 Jan 17 06:33	0°♈	
	11056 Mar 03 09:24	0°♉	
	11056 Apr 14 16:04	0°♊	
	11056 May 24 10:52	0°♋	
evening set	11056 Jun 15 16:01	17°♋17'59	
asc. node	11056 Jun 18 03:24	19°♋14'37	
	11056 Jul 01 18:35	0°♌	
	11056 Aug 08 14:33	0°♍	
conjunction	11056 Aug 25 23:09	13°♍41'38	0°45'27
minimum elong	11056 Aug 25 19:17	13°♍34'03	0°45'11
	11056 Sep 15 20:48	0°♎	
max. Earth dist.	11056 Oct 18 09:59	24°♎48'09	2.39706 AU
	11056 Oct 25 09:12	0°♏	
morning rise	11056 Nov 03 23:21	7°♏04'50	
	11056 Dec 05 20:30	0°♐	
	11057 Jan 18 20:14	0°♑	
	11057 Mar 07 01:56	0°♒	
	11057 Apr 28 20:08	0°♓	
desc. node	11057 May 10 06:38	5°♓46'22	
retrograde	11057 Jul 22 23:59	28°♓06'24	
opposition	11057 Aug 31 13:34	18°♓59'24	-3°34'02
greatest brilliancy	11057 Aug 31 23:08	18°♓50'05	-1.4m
min. Earth dist.	11057 Sep 04 05:31	17°♓33'46	0.65975 AU
direct	11057 Oct 12 04:49	8°♓56'08	
	11057 Dec 19 22:13	0°♈	
	11058 Feb 09 04:07	0°♉	
	11058 Mar 24 18:57	0°♊	
	11058 May 03 22:43	0°♋	
asc. node	11058 May 06 04:31	1°♋43'26	
	11058 Jun 11 09:20	0°♌	
	11058 Jul 19 08:45	0°♍	
	11058 Aug 26 21:27	0°♎	
evening set	11058 Aug 30 22:33	3°♎05'57	
	11058 Oct 05 18:54	0°♏	
conjunction	11058 Nov 02 02:22	19°♏45'42	1°03'04
minimum elong	11058 Nov 02 03:37	19°♏47'56	1°03'31
	11058 Nov 16 14:40	0°♐	
max. Earth dist.	11058 Dec 08 01:43	14°♐49'09	2.53605 AU
morning rise	11058 Dec 26 17:32	27°♐24'21	
	11058 Dec 30 14:58	0°♑	
	11059 Feb 14 21:19	0°♒	
desc. node	11059 Mar 27 22:08	25°♒23'02	
	11059 Apr 04 14:38	0°♓	
	11059 May 27 06:22	0°♈	
	11059 Aug 03 16:39	0°♉	
retrograde	11059 Sep 02 10:48	4°♉37'34	
	11059 Sep 29 19:34	30°℞♈	
opposition	11059 Oct 09 10:51	26°♈36'41	-5°09'43
greatest brilliancy	11059 Oct 10 18:15	26°♈07'25	-1.7m
min. Earth dist.	11059 Oct 16 18:29	23°♈53'15	0.57075 AU
direct	11059 Nov 18 16:22	17°♈01'10	
	11060 Jan 06 15:11	0°♉	
	11060 Feb 27 11:25	0°♊	
asc. node	11060 Mar 23 08:44	17°♊14'15	
	11060 Apr 09 20:10	0°♋	
	11060 May 19 06:33	0°♌	
	11060 Jun 26 23:11	0°♍	
	11060 Aug 05 05:25	0°♎	
	11060 Sep 14 21:47	0°♏	
	11060 Oct 27 11:41	0°♐	
evening set	11060 Oct 28 03:58	0°♐27'59	
	11060 Dec 11 00:34	0°♑	
conjunction	11060 Dec 18 08:45	4°♑49'53	0°29'01
minimum elong	11060 Dec 18 09:48	4°♑51'37	0°29'39
max. Earth dist.	11061 Jan 04 08:25	15°♑54'26	2.63528 AU
	11061 Jan 26 06:01	0°♒	
morning rise	11061 Feb 03 00:55	4°♒58'05	
desc. node	11061 Feb 11 13:44	10°♒23'16	
	11061 Mar 14 18:16	0°♓	
	11061 May 02 09:08	0°♈	
	11061 Jun 21 15:50	0°♉	
	11061 Aug 15 12:40	0°♊	
retrograde	11061 Oct 28 19:57	23°♊20'25	
opposition	11061 Nov 30 08:11	17°♊15'03	-4°13'23
greatest brilliancy	11061 Dec 01 18:35	16°♊47'31	-2.5m
min. Earth dist.	11061 Dec 08 16:43	14°♊36'04	0.43364 AU
direct	11062 Jan 04 12:14	9°♊53'49	
asc. node	11062 Feb 08 14:25	17°♊43'08	
	11062 Mar 05 09:54	0°♋	
	11062 Apr 20 21:54	0°♌	
	11062 Jun 01 18:07	0°♍	
	11062 Jul 13 04:38	0°♎	
	11062 Aug 24 15:51	0°♏	
	11062 Oct 07 17:04	0°♐	
	11062 Nov 22 07:51	0°♑	
evening set	11062 Dec 10 07:08	11°♑35'38	
desc. node	11062 Dec 30 08:28	24°♑26'02	
	11063 Jan 08 02:06	0°♒	
conjunction	11063 Jan 25 02:38	10°♒49'14	-0°13'40
minimum elong	11063 Jan 25 02:13	10°♒48'34	0°13'08
behind sun begin	11063 Jan 24 15:32	10°♒31'38	
behind sun end	11063 Jan 25 12:54	11°♒05'30	
max. Earth dist.	11063 Jan 27 11:24	12°♒19'17	2.68041 AU
	11063 Feb 24 08:28	0°♓	
morning rise	11063 Mar 09 17:28	8°♓29'02	
	11063 Apr 12 13:11	0°♈	
	11063 May 29 08:19	0°♉	
	11063 Jul 14 17:03	0°♊	
	11063 Aug 29 23:18	0°♋	
	11063 Oct 16 09:17	0°♌	
	11063 Dec 11 13:03	0°♍	
asc. node	11063 Dec 27 16:41	5°♍29'22	
retrograde	11064 Jan 17 22:59	8°♍24'54	
min. Earth dist.	11064 Feb 14 04:47	3°♍59'39	0.36803 AU
opposition	11064 Feb 17 06:56	3°♍09'38	3°49'49
greatest brilliancy	11064 Feb 16 18:08	3°♍18'17	-3.0m
	11064 Mar 01 03:05	30°℞♌	
direct	11064 Mar 17 10:06	28°♌16'38	
	11064 Apr 02 19:20	0°♍	
	11064 Jun 09 12:24	0°♎	
	11064 Jul 29 00:33	0°♏	
	11064 Sep 14 20:29	0°♐	
	11064 Nov 01 17:17	0°♑	
desc. node	11064 Nov 16 08:25	9°♑08'36	
	11064 Dec 19 17:01	0°♒	
evening set	11065 Jan 14 23:05	16°♒28'52	
	11065 Feb 05 08:20	0°♓	
max. Earth dist.	11065 Feb 17 18:16	7°♓54'02	2.67035 AU
conjunction	11065 Feb 28 03:12	14°♓32'17	-0°49'38
minimum elong	11065 Feb 28 02:06	14°♓30'32	0°49'24
	11065 Mar 24 01:40	0°♈	
morning rise	11065 Apr 12 23:37	13°♈02'29	
	11065 May 08 11:15	0°♉	
	11065 Jun 21 08:46	0°♊	
	11065 Aug 02 19:14	0°♋	
	11065 Sep 13 00:36	0°♌	
	11065 Oct 23 16:42	0°♍	

asc. node	11065 Nov 13 13:44	15°♍15'18	
	11065 Dec 04 06:33	0°♎	
	11066 Jan 19 22:48	0°♏	
retrograde	11066 Mar 20 18:10	20°♏06'08	
min. Earth dist.	11066 Apr 18 06:15	14°♏27'51	0.48058 AU
greatest brilliancy	11066 Apr 25 01:21	12°♏01'39	-2.2m
opposition	11066 Apr 26 15:34	11°♏27'09	5°36'03
direct	11066 May 30 05:27	4°♏25'15	
	11066 Aug 16 13:08	0°♐	
desc. node	11066 Oct 04 13:31	26°♐38'24	
	11066 Oct 10 10:14	0°♑	
	11066 Nov 30 06:19	0°♒	
	11067 Jan 18 01:07	0°♓	
evening set	11067 Feb 19 18:02	20°♓48'07	
	11067 Mar 05 21:39	0°♈	
max. Earth dist.	11067 Mar 13 22:46	5°♈17'11	2.60599 AU
conjunction	11067 Apr 06 08:54	20°♈55'25	-1°08'33
minimum elong	11067 Apr 06 08:32	20°♈54'48	1°08'44
	11067 Apr 19 17:01	0°♉	
morning rise	11067 May 24 12:40	24°♉19'11	
	11067 Jun 01 11:24	0°♊	
	11067 Jul 12 10:21	0°♋	
	11067 Aug 20 23:59	0°♌	
	11067 Sep 28 19:53	0°♍	
asc. node	11067 Oct 01 08:47	1°♍57'52	
	11067 Nov 06 19:53	0°♎	
	11067 Dec 17 06:50	0°♏	
	11068 Jan 30 12:23	0°♐	
	11068 Mar 28 03:32	0°♑	
retrograde	11068 May 01 10:46	6°♑54'30	
	11068 Jun 02 15:20	30°℞♐	
min. Earth dist.	11068 Jun 04 22:27	29°♐06'51	0.60501 AU
opposition	11068 Jun 10 07:38	26°♐59'35	2°41'36
greatest brilliancy	11068 Jun 09 19:41	27°♐11'23	-1.6m
direct	11068 Jul 18 03:26	18°♐17'35	
desc. node	11068 Aug 21 19:31	24°♐27'02	
	11068 Sep 06 05:36	0°♑	
	11068 Nov 06 18:54	0°♒	
	11068 Dec 28 13:34	0°♓	
	11069 Feb 14 08:01	0°♈	
evening set	11069 Mar 30 14:42	29°♈39'47	
	11069 Mar 31 02:25	0°♉	
max. Earth dist.	11069 Apr 13 14:58	9°♉25'48	2.49264 AU
	11069 May 12 07:47	0°♊	
conjunction	11069 May 21 10:28	6°♊41'02	-0°53'48
minimum elong	11069 May 21 12:29	6°♊44'45	0°54'21
	11069 Jun 21 12:26	0°♋	
morning rise	11069 Jul 21 00:48	22°♋45'19	
	11069 Jul 30 07:29	0°♌	
asc. node	11069 Aug 18 01:21	14°♌42'53	
	11069 Sep 06 11:12	0°♍	
	11069 Oct 14 20:16	0°♎	
	11069 Nov 23 09:19	0°♏	
	11070 Jan 04 04:52	0°♐	
	11070 Feb 19 00:41	0°♑	
	11070 Apr 15 22:47	0°♒	
retrograde	11070 Jun 05 17:34	12°♒45'51	
desc. node	11070 Jul 09 22:55	5°♒23'55	
min. Earth dist.	11070 Jul 14 18:14	3°♒30'52	0.67347 AU
opposition	11070 Jul 16 09:37	2°♒51'43	-0°13'44
greatest brilliancy	11070 Jul 16 09:14	2°♒52'05	-1.3m
	11070 Jul 23 17:50	30°℞♑	
direct	11070 Aug 25 20:06	23°♑16'09	
	11070 Oct 01 14:24	0°♒	
	11070 Dec 05 20:13	0°♓	

	11071 Jan 25 10:42	0°♈	
	11071 Mar 11 22:15	0°♉	
	11071 Apr 23 01:56	0°♊	
evening set	11071 May 21 12:33	21°♊16'52	
	11071 Jun 01 21:56	0°♋	
asc. node	11071 Jul 05 19:17	26°♋26'15	
max. Earth dist.	11071 Jul 09 00:31	28°♋58'34	2.36603 AU
	11071 Jul 10 07:38	0°♌	
conjunction	11071 Jul 26 18:48	13°♌01'57	0°15'08
minimum elong	11071 Jul 26 17:12	12°♌58'46	0°14'37
behind sun begin	11071 Jul 26 04:00	12°♌32'39	
behind sun end	11071 Jul 27 06:23	13°♌24'54	
	11071 Aug 17 04:37	0°♍	
	11071 Sep 24 10:23	0°♎	
morning rise	11071 Oct 08 14:16	10°♎54'33	
	11071 Nov 02 21:08	0°♏	
	11071 Dec 14 07:15	0°♐	
	11072 Jan 27 10:53	0°♑	
	11072 Mar 15 13:23	0°♒	
	11072 May 11 11:44	0°♓	
desc. node	11072 May 26 21:50	6°♓19'14	
retrograde	11072 Jul 08 22:46	15°♓24'53	
opposition	11072 Aug 18 01:40	6°♓00'21	-2°43'49
greatest brilliancy	11072 Aug 18 05:23	5°♓56'42	-1.3m
min. Earth dist.	11072 Aug 20 05:33	5°♓09'23	0.67664 AU
	11072 Sep 03 11:22	30°℞♒	
direct	11072 Sep 28 15:52	25°♒59'20	
	11072 Oct 25 21:41	0°♓	
	11072 Dec 31 18:09	0°♈	
	11073 Feb 18 01:16	0°♉	
	11073 Apr 01 22:29	0°♊	
	11073 May 11 20:45	0°♋	
asc. node	11073 May 22 19:02	8°♋27'56	
	11073 Jun 19 05:00	0°♌	
	11073 Jul 27 01:55	0°♍	
evening set	11073 Aug 01 15:35	4°♍23'43	
greatest brilliancy	11073 Aug 07 18:10	9°♍12'04	1.1m
	11073 Sep 03 10:58	0°♎	
conjunction	11073 Oct 09 14:16	27°♎21'43	1°06'14
minimum elong	11073 Oct 09 13:48	27°♎20'51	1°06'28
	11073 Oct 13 03:44	0°♏	
	11073 Nov 23 18:43	0°♐	
max. Earth dist.	11073 Nov 23 12:59	29°♏49'56	2.48445 AU
morning rise	11073 Dec 08 11:41	10°♐13'45	
	11074 Jan 06 16:48	0°♑	
	11074 Feb 22 03:54	0°♒	
	11074 Apr 12 20:30	0°♓	
desc. node	11074 Apr 13 15:48	0°♓27'50	
	11074 Jun 08 07:51	0°♈	
retrograde	11074 Aug 16 02:53	19°♈46'46	
opposition	11074 Sep 23 07:50	11°♈15'34	-4°40'45
greatest brilliancy	11074 Sep 24 06:05	10°♈54'22	-1.5m
min. Earth dist.	11074 Sep 29 06:46	8°♈59'20	0.61312 AU
direct	11074 Nov 03 09:30	1°♈21'31	
	11075 Jan 22 13:14	0°♉	
	11075 Mar 10 01:26	0°♊	
asc. node	11075 Apr 09 23:21	22°♊21'41	
	11075 Apr 20 03:25	0°♋	
	11075 May 29 00:24	0°♌	
	11075 Jul 06 07:32	0°♍	
	11075 Aug 14 04:34	0°♎	
	11075 Sep 23 11:26	0°♏	
evening set	11075 Oct 08 17:34	11°♏00'49	
	11075 Nov 04 16:17	0°♐	

conjunction	11075 Dec 02 15:19	19°♐06'35	0°44'37
minimum elong	11075 Dec 02 16:52	19°♐09'10	0°45'13
	11075 Dec 18 22:31	0°♑	
max. Earth dist.	11075 Dec 26 06:35	4°♑50'55	2.60271 AU
morning rise	11076 Jan 20 15:21	21°♑22'23	
	11076 Feb 03 02:09	0°♒	
desc. node	11076 Feb 29 05:59	16°♒32'20	
	11076 Mar 21 21:41	0°♓	
	11076 May 10 13:37	0°♈	
	11076 Jul 02 19:54	0°♉	
	11076 Sep 13 17:27	0°♊	
retrograde	11076 Oct 03 16:47	2°♊14'09	
	11076 Oct 22 11:39	30°℞♉	
opposition	11076 Nov 07 03:32	25°♉16'35	-5°10'33
greatest brilliancy	11076 Nov 08 20:01	24°♉41'19	-2.2m
min. Earth dist.	11076 Nov 15 19:55	22°♉16'08	0.48939 AU
direct	11076 Dec 14 21:25	16°♉44'06	
	11077 Jan 31 16:40	0°♊	
asc. node	11077 Feb 25 03:40	13°♊32'03	
	11077 Mar 22 11:47	0°♋	
	11077 May 03 04:53	0°♌	
	11077 Jun 12 03:46	0°♍	
	11077 Jul 22 09:26	0°♎	
	11077 Sep 01 22:35	0°♏	
	11077 Oct 15 06:18	0°♐	
evening set	11077 Nov 24 16:30	26°♐56'31	
	11077 Nov 29 08:31	0°♑	
conjunction	11078 Jan 11 01:10	27°♑35'06	0°02'40
minimum elong	11078 Jan 11 01:16	27°♑35'15	0°03'17
behind sun begin	11078 Jan 10 06:32	27°♑05'20	
behind sun end	11078 Jan 11 20:00	28°♑05'10	
	11078 Jan 14 19:53	0°♒	
desc. node	11078 Jan 15 22:50	0°♒43'01	
max. Earth dist.	11078 Jan 18 21:57	2°♒36'26	2.66944 AU
morning rise	11078 Feb 24 10:24	25°♒46'54	
	11078 Mar 03 02:37	0°♓	
	11078 Apr 19 17:10	0°♈	
	11078 Jun 06 11:29	0°♉	
	11078 Jul 24 17:45	0°♊	
	11078 Sep 12 22:53	0°♋	
	11078 Nov 13 12:01	0°♌	
retrograde	11078 Dec 16 07:40	6°♌11'53	
asc. node	11079 Jan 13 08:06	1°♌44'49	
opposition	11079 Jan 15 02:30	1°♌16'17	0°08'15
greatest brilliancy	11079 Jan 15 02:49	1°♌16'04	-3.1m
min. Earth dist.	11079 Jan 18 00:01	0°♌29'20	0.37000 AU
	11079 Jan 19 20:03	30°℞♋	
direct	11079 Feb 14 12:41	26°♋02'18	
	11079 Mar 11 01:57	0°♌	
	11079 May 10 00:06	0°♍	
	11079 Jun 25 10:34	0°♎	
	11079 Aug 09 15:37	0°♏	
	11079 Sep 24 10:56	0°♐	
	11079 Nov 10 05:01	0°♑	
desc. node	11079 Dec 03 20:47	15°♑00'15	
	11079 Dec 27 14:25	0°♒	
evening set	11080 Jan 02 02:27	3°♒28'23	
max. Earth dist.	11080 Feb 10 00:01	28°♒04'51	2.68092 AU
	11080 Feb 13 00:33	0°♓	
conjunction	11080 Feb 15 13:00	1°♓36'03	-0°37'09
minimum elong	11080 Feb 15 12:03	1°♓34'31	0°36'46
morning rise	11080 Mar 29 21:32	29°♓22'28	
	11080 Mar 30 20:45	0°♈	
	11080 May 15 16:46	0°♉	
	11080 Jun 29 08:13	0°♊	
	11080 Aug 11 19:24	0°♋	
	11080 Sep 23 08:44	0°♌	
	11080 Nov 04 21:58	0°♍	
asc. node	11080 Nov 30 08:48	17°♍17'17	
	11080 Dec 20 09:44	0°♎	
retrograde	11081 Feb 27 16:46	25°♎56'42	
min. Earth dist.	11081 Mar 26 02:52	21°♎12'05	0.42577 AU
greatest brilliancy	11081 Apr 01 13:56	19°♎05'15	-2.6m
opposition	11081 Apr 03 07:47	18°♎30'46	6°05'48
direct	11081 May 04 17:21	12°♎25'46	
	11081 Jul 04 08:12	0°♏	
	11081 Aug 29 08:48	0°♐	
	11081 Oct 19 06:48	0°♑	
desc. node	11081 Oct 20 23:48	1°♑01'34	
	11081 Dec 07 16:34	0°♒	
	11082 Jan 24 21:55	0°♓	
evening set	11082 Feb 05 16:23	7°♓27'17	
max. Earth dist.	11082 Mar 04 05:29	24°♓30'25	2.63742 AU
	11082 Mar 12 15:52	0°♈	
conjunction	11082 Mar 22 07:40	6°♈20'21	-1°04'05
minimum elong	11082 Mar 22 06:48	6°♈18'57	1°04'06
	11082 Apr 26 15:31	0°♉	
morning rise	11082 May 07 03:01	7°♉10'18	
	11082 Jun 08 18:52	0°♊	
	11082 Jul 20 05:14	0°♋	
	11082 Aug 29 07:00	0°♌	
	11082 Oct 07 14:45	0°♍	
asc. node	11082 Oct 18 03:15	8°♍02'01	
	11082 Nov 16 04:18	0°♎	
	11082 Dec 27 15:30	0°♏	
	11083 Feb 13 04:01	0°♐	
retrograde	11083 Apr 17 04:59	20°♐48'05	
min. Earth dist.	11083 May 19 11:39	13°♐45'32	0.56145 AU
greatest brilliancy	11083 May 25 08:11	11°♐29'48	-1.8m
opposition	11083 May 26 05:49	11°♐08'50	3°53'59
direct	11083 Jul 01 14:29	2°♐58'54	
desc. node	11083 Sep 08 05:53	23°♐00'27	
	11083 Sep 22 15:41	0°♑	
	11083 Nov 16 18:41	0°♒	
	11084 Jan 06 00:49	0°♓	
	11084 Feb 22 08:19	0°♈	
evening set	11084 Mar 14 05:39	13°♈48'03	
max. Earth dist.	11084 Mar 30 16:29	24°♈55'31	2.54202 AU
	11084 Apr 07 02:02	0°♉	
conjunction	11084 May 01 20:22	17°♉20'05	-1°05'06
minimum elong	11084 May 01 21:23	17°♉21'53	1°05'32
	11084 May 19 11:40	0°♊	
morning rise	11084 Jun 25 05:52	27°♊12'46	
	11084 Jun 28 22:26	0°♋	
	11084 Aug 06 23:36	0°♌	
asc. node	11084 Sep 03 19:30	21°♌44'51	
	11084 Sep 14 08:10	0°♍	
	11084 Oct 22 20:58	0°♎	
	11084 Dec 01 14:39	0°♏	
	11085 Jan 12 21:48	0°♐	
	11085 Mar 01 12:22	0°♑	
retrograde	11085 May 23 10:08	29°♑41'21	
min. Earth dist.	11085 Jun 29 19:49	20°♑56'42	0.65424 AU
opposition	11085 Jul 02 22:38	19°♑42'14	0°51'25
greatest brilliancy	11085 Jul 02 20:30	19°♑44'22	-1.4m
desc. node	11085 Jul 26 11:52	12°♑02'26	
direct	11085 Aug 11 12:35	10°♑23'52	
	11085 Oct 19 05:53	0°♒	
	11085 Dec 15 00:00	0°♓	
	11086 Feb 02 03:17	0°♈	

	11086 Mar 19 05:51	0°♉	
evening set	11086 Apr 29 02:09	29°♉02'52	
	11086 Apr 30 09:21	0°♊	
max. Earth dist.	11086 May 16 05:37	11°♊43'58	2.40919 AU
	11086 Jun 09 08:05	0°♋	
conjunction	11086 Jun 27 19:16	14°♋16'51	-0°17'38
minimum elong	11086 Jun 27 20:52	14°♋19'57	0°18'16
	11086 Jul 17 20:46	0°♌	
asc. node	11086 Jul 22 13:39	3°♌42'28	
	11086 Aug 24 19:28	0°♍	
morning rise	11086 Sep 07 08:14	10°♍40'39	
	11086 Oct 02 01:17	0°♎	
	11086 Nov 10 11:15	0°♏	
	11086 Dec 21 22:02	0°♐	
	11087 Feb 04 09:59	0°♑	
	11087 Mar 26 00:53	0°♒	
	11087 Jun 03 09:04	0°♓	
desc. node	11087 Jun 13 12:44	1°♓59'17	
retrograde	11087 Jun 26 11:25	2°♓57'57	
	11087 Jul 17 23:31	30°℞♒	
opposition	11087 Aug 05 22:58	23°♒19'20	-1°48'59
greatest brilliancy	11087 Aug 05 23:04	23°♒19'13	-1.3m
min. Earth dist.	11087 Aug 06 15:02	23°♒03'26	0.68330 AU
direct	11087 Sep 16 06:21	13°♒25'16	
	11087 Nov 16 12:57	0°♓	
	11088 Jan 11 10:59	0°♈	
	11088 Feb 27 05:29	0°♉	
	11088 Apr 09 17:04	0°♊	
	11088 May 19 13:15	0°♋	
asc. node	11088 Jun 08 10:26	15°♋27'53	
	11088 Jun 26 21:19	0°♌	
evening set	11088 Jul 02 01:57	4°♌06'43	
	11088 Aug 03 17:28	0°♍	
	11088 Sep 11 00:15	0°♎	
conjunction	11088 Sep 12 00:42	0°♎47'15	0°57'18
minimum elong	11088 Sep 11 21:33	0°♎41'09	0°57'14
	11088 Oct 20 13:27	0°♏	
max. Earth dist.	11088 Nov 03 12:50	10°♏17'11	2.42807 AU
morning rise	11088 Nov 17 10:20	20°♏20'06	
	11088 Dec 01 00:48	0°♐	
	11089 Jan 13 22:15	0°♑	
	11089 Mar 01 18:10	0°♒	
	11089 Apr 22 00:22	0°♓	
desc. node	11089 Apr 30 07:55	4°♓28'57	
	11089 Jun 26 20:48	0°♈	
retrograde	11089 Jul 31 09:57	6°♈03'24	
	11089 Aug 31 21:39	30°℞♓	
opposition	11089 Sep 08 13:14	27°♓07'46	-4°00'46
greatest brilliancy	11089 Sep 09 02:59	26°♓54'27	-1.4m
min. Earth dist.	11089 Sep 13 01:05	25°♓23'20	0.64596 AU
direct	11089 Oct 20 01:24	17°♓05'29	
	11089 Dec 10 01:21	0°♈	
	11090 Feb 02 21:28	0°♉	
	11090 Mar 19 06:49	0°♊	
asc. node	11090 Apr 26 13:05	28°♊21'10	
	11090 Apr 28 16:52	0°♋	
	11090 Jun 06 06:23	0°♌	
	11090 Jul 14 07:42	0°♍	
	11090 Aug 21 22:24	0°♎	
evening set	11090 Sep 15 01:20	18°♎14'56	
	11090 Sep 30 22:18	0°♏	
	11090 Nov 11 20:12	0°♐	
conjunction	11090 Nov 13 22:17	1°♐27'20	0°57'40
minimum elong	11090 Nov 13 23:54	1°♐30'08	0°58'12
max. Earth dist.	11090 Dec 15 04:32	22°♐50'31	2.56213 AU
	11090 Dec 25 21:32	0°♑	
morning rise	11091 Jan 05 04:41	6°♑48'42	
	11091 Feb 10 01:23	0°♒	
desc. node	11091 Mar 17 23:18	22°♒26'46	
	11091 Mar 30 08:23	0°♓	
	11091 May 20 14:26	0°♈	
	11091 Jul 18 23:11	0°♉	
retrograde	11091 Sep 13 06:10	14°♉15'50	
opposition	11091 Oct 19 10:22	6°♉34'48	-5°18'05
greatest brilliancy	11091 Oct 20 22:19	6°♉01'53	-1.9m
min. Earth dist.	11091 Oct 27 08:51	3°♉40'46	0.54381 AU
	11091 Nov 07 22:50	30°℞♈	
direct	11091 Nov 27 22:52	27°♈15'41	
	11091 Dec 18 16:40	0°♉	
	11092 Feb 19 15:50	0°♊	
asc. node	11092 Mar 13 19:22	15°♊19'18	
	11092 Apr 03 11:01	0°♋	
	11092 May 13 10:36	0°♌	
	11092 Jun 21 10:46	0°♍	
	11092 Jul 30 22:46	0°♎	
	11092 Sep 09 20:29	0°♏	
	11092 Oct 22 14:57	0°♐	
evening set	11092 Nov 07 16:57	10°♐56'20	
	11092 Dec 06 07:21	0°♑	
conjunction	11092 Dec 27 07:01	13°♑43'02	0°19'21
minimum elong	11092 Dec 27 07:43	13°♑44'10	0°19'58
max. Earth dist.	11093 Jan 09 20:30	22°♑28'48	2.64991 AU
	11093 Jan 21 13:48	0°♒	
desc. node	11093 Feb 01 14:12	7°♒01'32	
morning rise	11093 Feb 10 23:10	12°♒58'44	
	11093 Mar 09 23:04	0°♓	
	11093 Apr 27 03:18	0°♈	
	11093 Jun 15 06:54	0°♉	
	11093 Aug 05 19:29	0°♊	
	11093 Oct 07 03:43	0°♋	
retrograde	11093 Nov 14 03:38	7°♋38'50	
opposition	11093 Dec 15 10:30	2°♋04'00	-3°05'11
greatest brilliancy	11093 Dec 16 10:16	1°♋46'12	-2.7m
	11093 Dec 22 08:58	30°℞♊	
min. Earth dist.	11093 Dec 22 17:21	29°♊53'55	0.40562 AU
direct	11094 Jan 17 21:36	25°♊31'05	
asc. node	11094 Jan 29 23:47	26°♊31'58	
	11094 Feb 12 20:35	0°♋	
	11094 Apr 11 07:32	0°♌	
	11094 May 25 08:43	0°♍	
	11094 Jul 06 20:54	0°♎	
	11094 Aug 19 00:36	0°♏	
	11094 Oct 02 13:03	0°♐	
	11094 Nov 17 11:29	0°♑	
evening set	11094 Dec 18 18:51	20°♑03'29	
desc. node	11094 Dec 20 09:48	21°♑05'32	
	11095 Jan 03 09:53	0°♒	
conjunction	11095 Feb 01 23:25	18°♒45'06	-0°22'47
minimum elong	11095 Feb 01 22:45	18°♒44'04	0°22'18
max. Earth dist.	11095 Feb 01 12:09	18°♒27'16	2.68293 AU
	11095 Feb 19 17:02	0°♓	
morning rise	11095 Mar 17 08:41	16°♓19'02	
	11095 Apr 07 18:13	0°♈	
	11095 May 24 03:58	0°♉	
	11095 Jul 08 19:27	0°♊	
	11095 Aug 22 19:21	0°♋	
	11095 Oct 06 17:45	0°♌	
	11095 Nov 23 00:23	0°♍	
asc. node	11095 Dec 18 00:46	13°♍37'50	

retrograde	11096 Feb 03	10:40	26°♍56'57		
min. Earth dist.	11096 Feb 29	11:26	22°♍39'40	0.38199 AU	
greatest brilliancy	11096 Mar 05	00:56	21°♍20'53	-2.9m	
opposition	11096 Mar 06	04:25	21°♍00'55	5°15'10	
direct	11096 Apr 04	21:16	15°♍50'19		
	11096 May 26	16:46	0°♎		
	11096 Jul 21	02:36	0°♏		
	11096 Sep 08	18:05	0°♐		
	11096 Oct 27	11:07	0°♑		
desc. node	11096 Nov 06	11:59	6°♑12'15		
	11096 Dec 14	20:54	0°♒		
evening set	11097 Jan 22	20:26	24°♒24'42		
	11097 Jan 31	16:33	0°♓		
max. Earth dist.	11097 Feb 22	23:57	14°♓12'57	2.66093 AU	
conjunction	11097 Mar 08	01:27	22°♓37'42	-0°55'52	
minimum elong	11097 Mar 08	00:23	22°♓35'58	0°55'43	
	11097 Mar 19	10:03	0°♈		
morning rise	11097 Apr 21	09:59	21°♈46'10		
	11097 May 03	16:05	0°♉		
	11097 Jun 16	07:04	0°♊		
	11097 Jul 28	08:12	0°♋		
	11097 Sep 07	02:19	0°♌		
	11097 Oct 17	03:45	0°♍		
asc. node	11097 Nov 03	22:20	13°♍16'01		
	11097 Nov 26	17:10	0°♎		
	11098 Jan 09	09:35	0°♏		
	11098 Mar 12	13:16	0°♐		
retrograde	11098 Mar 31	08:29	2°♐24'40		
	11098 Apr 18	10:19	30°℞♏		
min. Earth dist.	11098 Apr 30	05:01	26°♏14'43	0.51070 AU	
greatest brilliancy	11098 May 06	18:56	23°♏48'07	-2.1m	
opposition	11098 May 08	03:34	23°♏17'37	5°03'07	
direct	11098 Jun 11	19:20	15°♏48'28		
	11098 Aug 05	14:36	0°♐		
desc. node	11098 Sep 24	17:24	24°♐56'10		
	11098 Oct 03	22:43	0°♑		
	11098 Nov 24	23:16	0°♒		
	11099 Jan 13	05:10	0°♓		
evening set	11099 Feb 28	01:33	29°♓14'23		
	11099 Mar 01	05:29	0°♈		
max. Earth dist.	11099 Mar 20	02:34	12°♈27'55	2.58505 AU	
conjunction	11099 Apr 15	12:43	0°♉21'12	-1°09'01	
minimum elong	11099 Apr 15	12:47	0°♉21'18	1°09'17	
	11099 Apr 15	00:22	0°♉		
	11099 May 27	15:59	0°♊		
morning rise	11099 Jun 04	11:57	5°♊39'57		
	11099 Jul 07	10:42	0°♋		
	11099 Aug 15	19:57	0°♌		
asc. node	11099 Sep 21	15:07	28°♌33'40		
	11099 Sep 23	11:29	0°♍		
	11099 Nov 01	06:22	0°♎		
	11099 Dec 11	08:37	0°♏		
	11100 Jan 23	13:48	0°♐		
	11100 Mar 16	03:40	0°♑		
retrograde	11100 May 10	15:39	15°♑49'02		
min. Earth dist.	11100 Jun 15	05:21	7°♑39'33	0.62507 AU	
opposition	11100 Jun 19	19:30	5°♑50'24	2°00'17	
greatest brilliancy	11100 Jun 19	11:54	5°♑57'56	-1.5m	
	11100 Jul 06	09:41	30°℞♐		
direct	11100 Jul 28	07:24	26°♐53'59		
desc. node	11100 Aug 12	23:18	28°♐17'26		
	11100 Aug 21	06:09	0°♑		
	11100 Nov 01	02:57	0°♒		
	11100 Dec 24	06:39	0°♓		
	11101 Feb 10	11:49	0°♈		
	11101 Mar 27	09:10	0°♉		
evening set	11101 Apr 10	15:26	9°♉56'36		
max. Earth dist.	11101 Apr 24	03:48	19°♉33'03	2.46294 AU	
	11101 May 08	14:11	0°♊		
conjunction	11101 Jun 03	21:16	19°♊31'10	-0°43'20	
minimum elong	11101 Jun 03	23:38	19°♊35'36	0°43'56	
	11101 Jun 17	16:46	0°♋		
	11101 Jul 26	09:30	0°♌		
morning rise	11101 Aug 07	15:04	9°♌37'02		
asc. node	11101 Aug 09	06:59	10°♌55'40		
	11101 Sep 02	11:10	0°♍		
	11101 Oct 10	18:27	0°♎		
	11101 Nov 19	05:24	0°♏		
	11101 Dec 30	19:50	0°♐		