conjunction	5600 Oct 03 01:41	13°♎13'27	1°01'41
minimum elong	5600 Oct 03 02:34	13°♎14'52	1°01'42
max. Earth dist.	5600 Oct 11 10:21	18°♎34'51	2.66361 AU
	5600 Oct 29 08:09	0°♏	
morning rise	5600 Nov 17 09:57	12°♏06'30	
	5600 Dec 15 16:50	0°♐	
	5601 Feb 01 06:39	0°♑	
desc. node	5601 Feb 26 12:00	15°♑50'31	
	5601 Mar 21 04:13	0°♒	
	5601 May 09 05:48	0°♓	
	5601 Jul 01 22:09	0°♈	
retrograde	5601 Sep 05 04:12	20°♈04'04	
opposition	5601 Oct 05 05:46	15°♈04'42	-6°00'12
greatest brilliancy	5601 Oct 06 03:57	14°♈49'44	-2.9m
min. Earth dist.	5601 Oct 08 20:08	14°♈06'34	0.37811 AU
direct	5601 Nov 05 00:19	9°♈43'34	
	5602 Jan 05 09:33	0°♉	
asc. node	5602 Jan 11 18:38	3°♉34'57	
	5602 Feb 23 04:03	0°♊	
	5602 Apr 09 03:47	0°♋	
	5602 May 24 02:47	0°♌	
	5602 Jul 08 24:00	0°♍	
	5602 Aug 24 20:19	0°♎	
evening set	5602 Sep 24 05:28	19°♎15'36	
	5602 Oct 11 04:38	0°♏	
max. Earth dist.	5602 Nov 03 10:57	14°♏45'25	2.67764 AU
conjunction	5602 Nov 08 14:25	18°♏01'46	0°33'55
minimum elong	5602 Nov 08 15:19	18°♏03'13	0°33'56
	5602 Nov 27 08:29	0°♐	
morning rise	5602 Dec 22 11:48	16°♐10'41	
	5603 Jan 12 17:49	0°♑	
desc. node	5603 Jan 14 10:27	1°♑06'26	
	5603 Feb 27 01:24	0°♒	
	5603 Apr 12 05:49	0°♓	
	5603 May 25 11:03	0°♈	
	5603 Jul 07 05:26	0°♉	
	5603 Aug 20 04:30	0°♊	
	5603 Oct 11 21:15	0°♋	
retrograde	5603 Nov 19 06:08	9°♋18'32	
asc. node	5603 Nov 29 17:12	8°♋29'48	
min. Earth dist.	5603 Dec 15 17:04	4°♋34'25	0.41994 AU
opposition	5603 Dec 23 14:15	2°♋01'49	1°32'57
greatest brilliancy	5603 Dec 23 01:53	2°♋11'52	-2.7m
	5603 Dec 30 01:53	30°℞♊	
direct	5604 Jan 23 21:22	26°♊02'29	
	5604 Feb 18 14:34	0°♋	
	5604 Apr 24 12:15	0°♌	
	5604 Jun 15 07:40	0°♍	
	5604 Aug 03 23:39	0°♎	
	5604 Sep 21 16:35	0°♏	
evening set	5604 Oct 29 15:12	23°♏51'45	
	5604 Nov 08 06:01	0°♐	
max. Earth dist.	5604 Nov 25 15:46	11°♐13'19	2.63721 AU
desc. node	5604 Dec 01 09:14	14°♐56'49	
conjunction	5604 Dec 13 20:23	23°♐06'56	-0°06'48
minimum elong	5604 Dec 13 20:11	23°♐06'35	0°06'46
behind sun begin	5604 Dec 13 02:42	22°♐37'49	
behind sun end	5604 Dec 14 13:39	23°♐35'22	
	5604 Dec 24 05:59	0°♑	
morning rise	5605 Jan 28 13:19	23°♑51'40	
	5605 Feb 06 10:51	0°♒	
	5605 Mar 20 20:55	0°♓	
	5605 Apr 30 18:19	0°♈	
	5605 Jun 09 14:05	0°♉	
	5605 Jul 19 02:42	0°♊	
	5605 Aug 28 14:01	0°♋	
	5605 Oct 11 09:39	0°♌	
asc. node	5605 Oct 16 16:43	3°♌19'39	
	5605 Dec 08 13:07	0°♍	
retrograde	5606 Jan 06 16:09	5°♍22'03	
	5606 Feb 03 09:35	30°℞♌	
min. Earth dist.	5606 Feb 07 12:26	28°♌28'42	0.55383 AU
greatest brilliancy	5606 Feb 13 07:45	26°♌14'13	-1.9m
opposition	5606 Feb 14 12:24	25°♌46'30	4°44'08
direct	5606 Mar 22 11:05	17°♌42'07	
	5606 May 12 03:33	0°♍	
	5606 Jul 11 18:58	0°♎	
	5606 Sep 01 21:29	0°♏	
desc. node	5606 Oct 19 08:14	29°♏08'19	
	5606 Oct 20 16:58	0°♐	
	5606 Dec 05 21:32	0°♑	
evening set	5606 Dec 06 14:07	0°♑27'40	
max. Earth dist.	5606 Dec 23 16:37	12°♑00'35	2.54510 AU
	5607 Jan 18 15:19	0°♒	
conjunction	5607 Jan 24 01:53	3°♒50'45	-0°48'40
minimum elong	5607 Jan 24 00:25	3°♒48'09	0°48'39
	5607 Mar 01 04:39	0°♓	
morning rise	5607 Mar 17 23:11	12°♓29'42	
	5607 Apr 10 00:56	0°♈	
	5607 May 18 19:22	0°♉	
	5607 Jun 26 06:48	0°♊	
	5607 Aug 04 09:36	0°♋	
asc. node	5607 Sep 03 15:38	22°♋22'45	
	5607 Sep 14 06:38	0°♌	
	5607 Oct 28 15:22	0°♍	
	5607 Dec 20 18:02	0°♎	
retrograde	5608 Feb 13 11:46	15°♎07'03	
min. Earth dist.	5608 Mar 21 11:31	6°♎27'40	0.64882 AU
opposition	5608 Mar 24 18:44	5°♎08'36	4°25'18
greatest brilliancy	5608 Mar 24 06:36	5°♎20'43	-1.4m
	5608 Apr 07 17:25	30°℞♍	
direct	5608 May 03 01:15	25°♍53'33	
	5608 May 30 20:28	0°♎	
	5608 Aug 08 09:48	0°♏	
desc. node	5608 Sep 05 07:25	15°♏30'45	
	5608 Sep 29 17:49	0°♐	
	5608 Nov 15 23:35	0°♑	
	5608 Dec 29 19:08	0°♒	
evening set	5609 Jan 20 02:28	15°♒18'58	
max. Earth dist.	5609 Feb 05 20:02	27°♒39'22	2.41585 AU
	5609 Feb 08 23:23	0°♓	
conjunction	5609 Mar 18 22:08	28°♓56'55	-1°03'50
minimum elong	5609 Mar 18 23:17	28°♓59'10	1°03'51
	5609 Mar 20 06:39	0°♈	
	5609 Apr 27 12:35	0°♉	
morning rise	5609 May 26 11:23	22°♉50'21	
	5609 Jun 04 14:10	0°♊	
	5609 Jul 13 08:38	0°♋	
asc. node	5609 Jul 21 13:36	6°♋13'15	
	5609 Aug 22 16:23	0°♌	
	5609 Oct 04 10:08	0°♍	
	5609 Nov 19 19:32	0°♎	
	5610 Jan 12 19:48	0°♏	
retrograde	5610 Mar 18 19:51	18°♏55'09	
opposition	5610 Apr 28 01:41	9°♏16'03	2°48'19
greatest brilliancy	5610 Apr 28 03:19	9°♏14'26	-1.3m

Command: swevents -p4 -doall -mpdf -eswe -b1.1.5600 -n183366 -roundmin

min. Earth dist.	5610 Apr 28 15:10	9°♏02'41	0.68003 AU
	5610 May 29 09:04	30°℞♎	
direct	5610 Jun 08 04:50	29°♎23'49	
	5610 Jun 18 09:17	0°♏	
desc. node	5610 Jul 24 06:27	9°♏34'54	
	5610 Sep 05 14:28	0°♐	
	5610 Oct 26 07:59	0°♑	
	5610 Dec 10 02:14	0°♒	
	5611 Jan 20 09:21	0°♓	
	5611 Feb 28 12:53	0°♈	
evening set	5611 Mar 23 08:30	17°♈55'57	
	5611 Apr 07 14:29	0°♉	
	5611 May 15 13:59	0°♊	
conjunction	5611 May 31 23:56	12°♊48'23	-0°05'19
minimum elong	5611 Jun 01 00:29	12°♊49'27	0°05'20
behind sun begin	5611 May 30 20:10	11°♊54'32	
behind sun end	5611 Jun 02 04:48	13°♊44'19	
asc. node	5611 Jun 08 13:31	18°♊39'29	
	5611 Jun 23 09:03	0°♋	
max. Earth dist.	5611 Jul 23 18:27	22°♋43'15	2.42024 AU
	5611 Aug 02 17:46	0°♌	
morning rise	5611 Aug 07 12:59	3°♌28'23	
	5611 Sep 14 05:43	0°♍	
	5611 Oct 29 07:22	0°♎	
	5611 Dec 16 16:05	0°♏	
	5612 Feb 09 09:19	0°♐	
retrograde	5612 Apr 22 17:01	22°♐13'31	
opposition	5612 May 31 17:15	13°♐16'59	0°20'54
greatest brilliancy	5612 May 31 18:49	13°♐15'28	-1.5m
min. Earth dist.	5612 Jun 05 01:30	11°♐35'48	0.64524 AU
desc. node	5612 Jun 10 05:03	9°♐39'27	
direct	5612 Jul 12 05:15	3°♐15'08	
	5612 Sep 29 05:47	0°♑	
	5612 Nov 16 22:46	0°♒	
	5612 Dec 29 09:21	0°♓	
	5613 Feb 06 22:11	0°♈	
	5613 Mar 17 04:46	0°♉	
	5613 Apr 24 10:05	0°♊	
asc. node	5613 Apr 25 13:01	0°♊52'23	
	5613 Jun 02 13:20	0°♋	
evening set	5613 Jun 03 04:37	0°♋28'44	
	5613 Jul 13 07:31	0°♌	
conjunction	5613 Aug 03 09:06	14°♌57'21	0°55'53
minimum elong	5613 Aug 03 07:11	14°♌53'59	0°55'51
	5613 Aug 25 02:26	0°♍	
max. Earth dist.	5613 Sep 05 16:43	7°♍52'48	2.55329 AU
morning rise	5613 Sep 26 08:17	21°♍40'36	
	5613 Oct 09 00:19	0°♎	
	5613 Nov 24 23:20	0°♏	
	5614 Jan 13 05:02	0°♐	
	5614 Mar 07 15:38	0°♑	
desc. node	5614 Apr 28 03:27	22°♑59'25	
	5614 May 30 09:17	0°♒	
retrograde	5614 Jun 04 22:49	0°♒11'08	
	5614 Jun 10 10:04	30°℞♑	
opposition	5614 Jul 11 06:59	22°♑27'57	-2°58'47
greatest brilliancy	5614 Jul 12 01:59	22°♑10'35	-1.9m
min. Earth dist.	5614 Jul 19 00:52	19°♑38'37	0.54781 AU
direct	5614 Aug 20 01:34	13°♑06'54	
	5614 Oct 15 16:13	0°♒	
	5614 Dec 03 22:24	0°♓	
	5615 Jan 14 14:26	0°♈	
	5615 Feb 22 23:47	0°♉	
asc. node	5615 Mar 13 11:21	14°♉13'11	
	5615 Apr 03 02:01	0°♊	
	5615 May 13 01:33	0°♋	
	5615 Jun 23 15:39	0°♌	
evening set	5615 Jul 29 16:10	24°♌56'05	
	5615 Aug 06 03:41	0°♍	
conjunction	5615 Sep 18 16:25	28°♍50'29	1°06'45
minimum elong	5615 Sep 18 16:51	28°♍51'10	1°06'44
	5615 Sep 20 11:07	0°♎	
max. Earth dist.	5615 Oct 03 04:49	8°♎15'29	2.64293 AU
morning rise	5615 Nov 04 12:15	28°♎56'59	
	5615 Nov 06 03:55	0°♏	
	5615 Dec 23 18:59	0°♐	
	5616 Feb 10 05:24	0°♑	
desc. node	5616 Mar 15 02:15	20°♑30'37	
	5616 Mar 31 03:38	0°♒	
	5616 May 24 17:43	0°♓	
retrograde	5616 Aug 04 14:00	22°♓22'00	
opposition	5616 Sep 05 05:35	16°♓41'53	-6°18'45
greatest brilliancy	5616 Sep 06 21:25	16°♓11'41	-2.6m
min. Earth dist.	5616 Sep 12 13:14	14°♓29'42	0.41503 AU
direct	5616 Oct 09 05:26	10°♓00'18	
	5616 Dec 08 02:38	0°♈	
	5617 Jan 24 04:34	0°♉	
asc. node	5617 Jan 28 10:41	2°♉55'50	
	5617 Mar 07 21:09	0°♊	
	5617 Apr 19 07:05	0°♋	
	5617 Jun 01 18:00	0°♌	
	5617 Jul 16 16:03	0°♍	
	5617 Aug 31 22:06	0°♎	
evening set	5617 Sep 09 10:26	5°♎27'13	
	5617 Oct 17 23:22	0°♏	
conjunction	5617 Oct 25 16:02	4°♏53'19	0°46'44
minimum elong	5617 Oct 25 17:06	4°♏55'01	0°46'45
max. Earth dist.	5617 Oct 25 13:34	4°♏49'24	2.67871 AU
	5617 Dec 04 03:17	0°♐	
morning rise	5617 Dec 08 18:24	2°♐57'19	
	5618 Jan 19 20:52	0°♑	
desc. node	5618 Jan 31 01:34	7°♑15'04	
	5618 Mar 06 22:17	0°♒	
	5618 Apr 21 08:45	0°♓	
	5618 Jun 05 13:04	0°♈	
	5618 Jul 21 17:07	0°♉	
	5618 Sep 13 15:31	0°♊	
retrograde	5618 Oct 24 08:21	10°♊01'03	
min. Earth dist.	5618 Nov 20 01:12	5°♊37'09	0.38050 AU
opposition	5618 Nov 25 00:46	4°♊12'14	-1°32'50
greatest brilliancy	5618 Nov 24 19:33	4°♊15'57	-3.0m
	5618 Dec 12 21:16	30°℞♉	
asc. node	5618 Dec 16 10:51	29°♉31'43	
direct	5618 Dec 24 14:28	29°♉04'50	
	5619 Jan 05 13:21	0°♊	
	5619 Mar 18 12:24	0°♋	
	5619 May 07 22:41	0°♌	
	5619 Jun 25 09:40	0°♍	
	5619 Aug 12 15:25	0°♎	
	5619 Sep 29 16:31	0°♏	
evening set	5619 Oct 16 12:41	10°♏36'11	
	5619 Nov 16 00:38	0°♐	
max. Earth dist.	5619 Nov 17 08:46	0°♐51'31	2.65950 AU
conjunction	5619 Nov 30 10:58	9°♐17'30	0°09'57
minimum elong	5619 Nov 30 11:16	9°♐17'59	0°09'59
behind sun begin	5619 Nov 29 20:26	8°♐54'00	
behind sun end	5619 Dec 01 02:07	9°♐41'58	
desc. node	5619 Dec 19 00:16	21°♐22'04	
	5620 Jan 01 02:58	0°♑	

morning rise	5620 Jan 14 00:13	8°♑34'00	
	5620 Feb 14 16:11	0°♒	
	5620 Mar 28 15:18	0°♓	
	5620 May 09 04:40	0°♈	
	5620 Jun 18 18:21	0°♉	
	5620 Jul 29 04:17	0°♊	
	5620 Sep 09 03:34	0°♋	
	5620 Oct 27 17:01	0°♌	
asc. node	5620 Nov 02 08:37	2°♌52'04	
retrograde	5620 Dec 20 11:06	16°♌30'04	
min. Earth dist.	5621 Jan 19 00:24	10°♌28'02	0.50262 AU
greatest brilliancy	5621 Jan 25 19:35	7°♌56'55	-2.1m
opposition	5621 Jan 27 01:40	7°♌28'57	4°08'59
direct	5621 Mar 02 06:38	0°♌06'14	
	5621 May 28 05:01	0°♍	
	5621 Jul 21 04:06	0°♎	
	5621 Sep 09 12:53	0°♏	
	5621 Oct 27 17:38	0°♐	
desc. node	5621 Nov 04 22:48	5°♐14'50	
evening set	5621 Nov 21 07:11	15°♐49'11	
max. Earth dist.	5621 Dec 11 19:35	29°♐20'32	2.58716 AU
	5621 Dec 12 19:15	0°♑	
conjunction	5622 Jan 06 23:11	17°♑01'18	-0°33'23
minimum elong	5622 Jan 06 22:04	16°♑59'24	0°33'21
	5622 Jan 25 16:29	0°♒	
morning rise	5622 Feb 25 02:20	21°♒40'01	
	5622 Mar 08 12:48	0°♓	
	5622 Apr 17 17:14	0°♈	
	5622 May 26 19:26	0°♉	
	5622 Jul 04 13:36	0°♊	
	5622 Aug 12 23:36	0°♋	
asc. node	5622 Sep 20 08:01	27°♋50'14	
	5622 Sep 23 10:21	0°♌	
	5622 Nov 08 13:56	0°♍	
	5623 Jan 18 09:01	0°♎	
retrograde	5623 Jan 30 13:06	0°♎58'22	
	5623 Feb 11 08:20	30°℞♍	
min. Earth dist.	5623 Mar 06 16:33	22°♍55'57	0.61885 AU
opposition	5623 Mar 11 11:59	21°♍01'24	4°45'33
greatest brilliancy	5623 Mar 10 16:48	21°♍20'27	-1.5m
direct	5623 Apr 18 16:03	12°♍08'57	
	5623 Jun 22 00:05	0°♎	
	5623 Aug 18 22:51	0°♏	
desc. node	5623 Sep 22 21:32	20°♏28'25	
	5623 Oct 08 11:01	0°♐	
	5623 Nov 24 04:14	0°♑	
evening set	5624 Jan 01 22:43	26°♑29'43	
	5624 Jan 06 22:07	0°♒	
max. Earth dist.	5624 Jan 16 01:15	6°♒29'45	2.46878 AU
	5624 Feb 17 05:23	0°♓	
conjunction	5624 Feb 24 02:27	5°♓08'30	-1°04'26
minimum elong	5624 Feb 24 01:42	5°♓07'07	1°04'26
	5624 Mar 27 17:08	0°♈	
morning rise	5624 Apr 25 21:47	22°♈45'12	
	5624 May 05 03:15	0°♉	
	5624 Jun 12 07:37	0°♊	
	5624 Jul 21 03:36	0°♋	
asc. node	5624 Aug 07 08:00	12°♋56'32	
	5624 Aug 30 13:27	0°♌	
	5624 Oct 12 14:50	0°♍	
	5624 Nov 29 06:38	0°♎	
	5625 Jan 30 11:28	0°♏	
retrograde	5625 Mar 05 13:24	6°♏18'10	
	5625 Apr 05 22:24	30°℞♎	
opposition	5625 Apr 14 23:26	26°♎28'23	3°32'17
min. Earth dist.	5625 Apr 14 00:51	26°♎50'54	0.67562 AU
greatest brilliancy	5625 Apr 14 20:50	26°♎30'59	-1.3m
direct	5625 May 25 13:26	16°♎47'27	
	5625 Jul 18 09:24	0°♏	
desc. node	5625 Aug 09 20:36	10°♏17'09	
	5625 Sep 15 12:33	0°♐	
	5625 Nov 03 09:23	0°♑	
	5625 Dec 17 15:42	0°♒	
	5626 Jan 27 20:32	0°♓	
evening set	5626 Feb 24 14:13	21°♓07'18	
	5626 Mar 08 00:46	0°♈	
	5626 Apr 15 03:30	0°♉	
conjunction	5626 May 01 23:52	13°♉20'17	-0°36'14
minimum elong	5626 May 02 03:05	13°♉26'40	0°36'13
	5626 May 23 03:09	0°♊	
max. Earth dist.	5626 Jun 04 17:05	9°♊50'13	2.37255 AU
asc. node	5626 Jun 25 06:07	25°♊42'26	
	5626 Jun 30 21:03	0°♋	
morning rise	5626 Jul 12 18:32	9°♋00'01	
	5626 Aug 10 04:02	0°♌	
	5626 Sep 21 15:41	0°♍	
	5626 Nov 05 23:53	0°♎	
	5626 Dec 25 13:37	0°♏	
	5627 Feb 24 22:35	0°♐	
retrograde	5627 Apr 09 06:08	9°♐14'18	
opposition	5627 May 18 21:38	29°♏58'15	1°23'44
	5627 May 18 19:51	30°℞♏	
greatest brilliancy	5627 May 19 01:31	29°♏54'26	-1.4m
min. Earth dist.	5627 May 21 18:46	28°♏50'25	0.66662 AU
desc. node	5627 Jun 27 19:16	19°♏57'15	
direct	5627 Jun 29 11:06	19°♏56'13	
	5627 Aug 13 12:49	0°♐	
	5627 Oct 11 07:33	0°♑	
	5627 Nov 26 18:51	0°♒	
	5628 Jan 07 14:24	0°♓	
	5628 Feb 15 21:34	0°♈	
	5628 Mar 25 00:50	0°♉	
	5628 May 02 02:36	0°♊	
evening set	5628 May 06 19:52	3°♊41'08	
asc. node	5628 May 12 04:38	7°♊51'35	
	5628 Jun 10 01:20	0°♋	
conjunction	5628 Jul 11 23:29	23°♋44'09	0°38'36
minimum elong	5628 Jul 11 21:03	23°♋39'44	0°38'32
	5628 Jul 20 14:32	0°♌	
max. Earth dist.	5628 Aug 22 23:00	23°♌36'44	2.50505 AU
	5628 Sep 01 05:11	0°♍	
morning rise	5628 Sep 08 13:16	5°♍00'39	
	5628 Oct 16 02:16	0°♎	
	5628 Dec 02 09:06	0°♏	
	5629 Jan 21 21:31	0°♐	
	5629 Mar 21 15:51	0°♑	
desc. node	5629 May 14 17:48	14°♑34'08	
retrograde	5629 May 17 17:22	14°♑37'22	
opposition	5629 Jun 24 07:42	6°♑20'28	-1°35'04
greatest brilliancy	5629 Jun 24 16:12	6°♑12'28	-1.7m
min. Earth dist.	5629 Jun 30 20:26	3°♑52'54	0.59275 AU
	5629 Jul 12 07:56	30°℞♐	
direct	5629 Aug 04 02:40	26°♐34'07	
	5629 Aug 28 02:37	0°♑	
	5629 Oct 30 16:48	0°♒	
	5629 Dec 14 14:25	0°♓	
	5630 Jan 24 00:42	0°♈	
	5630 Mar 03 19:07	0°♉	
asc. node	5630 Mar 30 04:36	20°♉32'44	
	5630 Apr 11 10:05	0°♊	

	5630 May 20 23:02	0°♋		
	5630 Jul 01 03:09	0°♌		
evening set	5630 Jul 09 21:18	6°♌12'20		
	5630 Aug 13 06:32	0°♍		
conjunction	5630 Sep 02 02:52	13°♍21'23	1°07'17	
minimum elong	5630 Sep 02 02:33	13°♍20'51	1°07'17	
max. Earth dist.	5630 Sep 23 10:32	27°♍26'21	2.61415 AU	
	5630 Sep 27 08:32	0°♎		
morning rise	5630 Oct 21 01:21	15°♎20'19		
	5630 Nov 13 01:28	0°♏		
	5630 Dec 31 02:46	0°♐		
	5631 Feb 18 19:26	0°♑		
desc. node	5631 Apr 01 17:09	23°♑50'33		
	5631 Apr 13 06:26	0°♒		
retrograde	5631 Jul 09 10:45	29°♒31'34		
opposition	5631 Aug 12 01:51	22°♒58'27	-5°16'19	
greatest brilliancy	5631 Aug 13 15:32	22°♒27'01	-2.3m	
min. Earth dist.	5631 Aug 20 15:17	20°♒07'49	0.46627 AU	
direct	5631 Sep 17 23:48	14°♒56'28		
	5631 Nov 08 03:20	0°♓		
	5631 Dec 26 22:10	0°♈		
	5632 Feb 06 18:14	0°♉		
asc. node	5632 Feb 15 02:52	6°♉10'01		
	5632 Mar 18 07:16	0°♊		
	5632 Apr 28 09:10	0°♋		
	5632 Jun 09 21:07	0°♌		
	5632 Jul 24 02:22	0°♍		
evening set	5632 Aug 24 20:09	20°♍53'15		
	5632 Sep 07 21:22	0°♎		
conjunction	5632 Oct 11 10:33	21°♎31'52	0°57'03	
minimum elong	5632 Oct 11 11:34	21°♎33'30	0°57'04	
max. Earth dist.	5632 Oct 16 15:55	24°♎51'46	2.67136 AU	
	5632 Oct 24 17:35	0°♏		
morning rise	5632 Nov 25 04:51	19°♏58'57		
	5632 Dec 10 23:52	0°♐		
	5633 Jan 27 05:24	0°♑		
desc. node	5633 Feb 16 16:03	13°♑00'58		
	5633 Mar 15 08:08	0°♒		
	5633 May 01 17:32	0°♓		
	5633 Jun 19 18:12	0°♈		
	5633 Aug 17 07:30	0°♉		
retrograde	5633 Sep 23 16:51	8°♉00'32		
opposition	5633 Oct 23 15:17	3°♉03'14	-4°50'38	
greatest brilliancy	5633 Oct 23 22:17	2°♉58'36	-3.0m	
min. Earth dist.	5633 Oct 24 03:47	2°♉54'58	0.36904 AU	
	5633 Nov 05 01:38	30°℞♈		
direct	5633 Nov 22 08:57	28°♈06'34		
	5633 Dec 09 07:25	0°♉		
asc. node	5634 Jan 02 02:05	7°♉52'47		
	5634 Feb 13 01:08	0°♊		
	5634 Apr 01 21:34	0°♋		
	5634 May 18 03:23	0°♌		
	5634 Jul 03 17:32	0°♍		
	5634 Aug 19 23:49	0°♎		
evening set	5634 Oct 02 10:49	27°♎24'41		
	5634 Oct 06 13:13	0°♏		
max. Earth dist.	5634 Nov 08 13:48	20°♏56'15	2.67356 AU	
conjunction	5634 Nov 16 12:36	26°♏00'38	0°25'31	
minimum elong	5634 Nov 16 13:19	26°♏01'48	0°25'32	
	5634 Nov 22 18:12	0°♐		
morning rise	5634 Dec 30 11:59	24°♐24'29		
desc. node	5635 Jan 04 14:19	27°♐44'35		
	5635 Jan 08 00:53	0°♑		
	5635 Feb 22 01:22	0°♒		

	5635 Apr 06 18:21	0°♓		
	5635 May 19 06:53	0°♈		
	5635 Jun 30 01:24	0°♉		
	5635 Aug 11 04:20	0°♊		
	5635 Sep 26 00:06	0°♋		
asc. node	5635 Nov 20 02:32	23°♋12'40		
retrograde	5635 Dec 01 19:19	24°♋12'11		
min. Earth dist.	5635 Dec 29 04:22	19°♋02'53	0.44797 AU	
opposition	5636 Jan 06 12:28	16°♋10'58	2°48'00	
greatest brilliancy	5636 Jan 05 13:57	16°♋30'25	-2.5m	
direct	5636 Feb 07 20:00	9°♋40'09		
	5636 Apr 14 10:18	0°♌		
	5636 Jun 08 19:05	0°♍		
	5636 Jul 29 14:58	0°♎		
	5636 Sep 16 20:07	0°♏		
	5636 Nov 03 14:37	0°♐		
evening set	5636 Nov 06 18:47	2°♐01'49		
desc. node	5636 Nov 21 12:52	11°♐32'17		
max. Earth dist.	5636 Dec 01 07:38	17°♐54'40	2.62152 AU	
	5636 Dec 19 15:22	0°♑		
conjunction	5636 Dec 22 08:27	1°♑48'27	-0°16'41	
minimum elong	5636 Dec 22 07:53	1°♑47'31	0°16'39	
	5637 Feb 01 17:31	0°♒		
morning rise	5637 Feb 07 00:13	3°♒40'55		
	5637 Mar 15 22:41	0°♓		
	5637 Apr 25 13:37	0°♈		
	5637 Jun 04 02:31	0°♉		
	5637 Jul 13 07:14	0°♊		
	5637 Aug 22 06:21	0°♋		
	5637 Oct 03 20:25	0°♌		
asc. node	5637 Oct 07 01:25	2°♌07'47		
	5637 Nov 23 09:13	0°♍		
retrograde	5638 Jan 15 16:44	15°♍27'03		
min. Earth dist.	5638 Feb 17 18:17	8°♍07'41	0.57925 AU	
greatest brilliancy	5638 Feb 22 22:48	6°♍05'56	-1.7m	
opposition	5638 Feb 24 00:36	5°♍40'40	4°50'55	
	5638 Mar 12 13:26	30°℞♌		
direct	5638 Apr 01 20:10	27°♌17'09		
	5638 Apr 23 17:32	0°♍		
	5638 Jul 04 20:07	0°♎		
	5638 Aug 27 11:42	0°♏		
desc. node	5638 Oct 09 11:34	26°♏01'38		
	5638 Oct 15 20:03	0°♐		
	5638 Dec 01 05:20	0°♑		
evening set	5638 Dec 15 18:04	9°♑46'26		
max. Earth dist.	5638 Dec 31 05:31	20°♑23'19	2.51940 AU	
	5639 Jan 13 23:33	0°♒		
conjunction	5639 Feb 03 14:17	14°♒43'22	-0°56'02	
minimum elong	5639 Feb 03 12:50	14°♒40'45	0°56'02	
	5639 Feb 24 11:08	0°♓		
morning rise	5639 Mar 31 05:04	26°♓11'17		
	5639 Apr 05 04:21	0°♈		
	5639 May 13 19:34	0°♉		
	5639 Jun 21 03:53	0°♊		
	5639 Jul 30 03:04	0°♋		
asc. node	5639 Aug 24 23:32	19°♋17'14		
	5639 Sep 08 18:05	0°♌		
	5639 Oct 22 10:31	0°♍		
	5639 Dec 11 14:01	0°♎		
retrograde	5640 Feb 21 06:04	23°♎18'51		
min. Earth dist.	5640 Mar 30 04:41	14°♎21'06	0.66115 AU	
opposition	5640 Apr 01 15:34	13°♎22'19	4°08'29	
greatest brilliancy	5640 Apr 01 07:11	13°♎30'41	-1.4m	
direct	5640 May 11 10:54	3°♎56'49		
	5640 Aug 01 04:03	0°♏		

desc. node	5640 Aug 26 10:41	13°♏23'01	
	5640 Sep 24 06:13	0°♐	
	5640 Nov 11 00:39	0°♑	
	5640 Dec 25 00:16	0°♒	
evening set	5641 Feb 01 01:39	27°♒38'44	
	5641 Feb 04 05:19	0°♓	
max. Earth dist.	5641 Feb 25 10:08	16°♓03'09	2.38924 AU
	5641 Mar 15 11:48	0°♈	
conjunction	5641 Apr 02 22:00	14°♈24'23	-0°57'52
minimum elong	5641 Apr 03 00:29	14°♈29'16	0°57'52
	5641 Apr 22 16:38	0°♉	
	5641 May 30 17:10	0°♊	
morning rise	5641 Jun 13 01:43	10°♊26'39	
	5641 Jul 08 10:32	0°♋	
asc. node	5641 Jul 11 23:11	2°♋41'02	
	5641 Aug 17 16:42	0°♌	
	5641 Sep 29 06:13	0°♍	
	5641 Nov 14 02:30	0°♎	
	5642 Jan 04 19:35	0°♏	
retrograde	5642 Mar 26 12:04	26°♏36'23	
opposition	5642 May 05 14:30	17°♏04'36	2°19'10
greatest brilliancy	5642 May 05 17:38	17°♏01'30	-1.3m
min. Earth dist.	5642 May 07 00:05	16°♏31'23	0.67797 AU
direct	5642 Jun 15 23:21	7°♏07'37	
desc. node	5642 Jul 14 10:11	11°♏26'57	
	5642 Aug 29 00:15	0°♐	
	5642 Oct 20 16:00	0°♑	
	5642 Dec 04 22:43	0°♒	
	5643 Jan 15 10:08	0°♓	
	5643 Feb 23 14:56	0°♈	
	5643 Apr 02 17:06	0°♉	
evening set	5643 Apr 08 15:26	4°♉41'47	
	5643 May 10 17:09	0°♊	
asc. node	5643 May 29 21:42	14°♊56'52	
conjunction	5643 Jun 17 02:02	28°♊53'48	0°12'31
minimum elong	5643 Jun 17 00:52	28°♊51'35	0°12'29
behind sun begin	5643 Jun 16 06:42	28°♊17'03	
behind sun end	5643 Jun 17 19:01	29°♊26'05	
	5643 Jun 18 12:52	0°♋	
	5643 Jul 28 22:15	0°♌	
max. Earth dist.	5643 Aug 06 06:13	6°♌00'39	2.45112 AU
morning rise	5643 Aug 20 08:05	16°♌01'36	
	5643 Sep 09 09:52	0°♍	
	5643 Oct 24 08:02	0°♎	
	5643 Dec 11 03:49	0°♏	
	5644 Feb 01 19:01	0°♐	
	5644 Apr 23 04:19	0°♑	
retrograde	5644 May 01 08:45	0°♑23'49	
	5644 May 09 07:48	30°℞♐	
desc. node	5644 May 31 08:53	24°♐50'47	
opposition	5644 Jun 08 22:57	21°♐39'47	-0°19'21
greatest brilliancy	5644 Jun 09 00:21	21°♐38'26	-1.5m
min. Earth dist.	5644 Jun 14 02:43	19°♐40'45	0.62924 AU
direct	5644 Jul 20 07:47	11°♐40'44	
	5644 Sep 20 12:03	0°♑	
	5644 Nov 10 18:42	0°♒	
	5644 Dec 23 21:10	0°♓	
	5645 Feb 01 15:56	0°♈	
	5645 Mar 12 01:40	0°♉	
asc. node	5645 Apr 15 20:01	27°♉14'01	
	5645 Apr 19 09:25	0°♊	
	5645 May 28 14:58	0°♋	
evening set	5645 Jun 17 09:35	14°♋41'28	
	5645 Jul 08 11:37	0°♌	
conjunction	5645 Aug 14 20:06	26°♌13'10	1°02'06
minimum elong	5645 Aug 14 18:46	26°♌10'53	1°02'05
	5645 Aug 20 08:30	0°♍	
max. Earth dist.	5645 Sep 12 13:41	15°♍40'03	2.57737 AU
	5645 Oct 04 06:44	0°♎	
morning rise	5645 Oct 05 16:56	0°♎55'51	
	5645 Nov 20 02:03	0°♏	
	5646 Jan 07 18:42	0°♐	
	5646 Feb 28 10:34	0°♑	
desc. node	5646 Apr 18 07:14	24°♑42'41	
	5646 May 01 01:26	0°♒	
retrograde	5646 Jun 16 09:21	10°♒20'05	
opposition	5646 Jul 21 21:39	2°♒59'07	-3°49'17
greatest brilliancy	5646 Jul 22 23:44	2°♒35'53	-2.0m
min. Earth dist.	5646 Jul 30 04:01	0°♒02'58	0.52014 AU
	5646 Jul 30 07:27	30°℞♑	
direct	5646 Aug 29 21:24	23°♑59'25	
	5646 Sep 30 05:18	0°♒	
	5646 Nov 26 02:53	0°♓	
	5647 Jan 08 03:52	0°♈	
	5647 Feb 17 03:04	0°♉	
asc. node	5647 Mar 03 20:16	11°♉12'28	
	5647 Mar 28 14:01	0°♊	
	5647 May 07 20:09	0°♋	
	5647 Jun 18 15:51	0°♌	
	5647 Aug 01 08:22	0°♍	
evening set	5647 Aug 09 00:46	5°♍08'57	
	5647 Sep 15 18:46	0°♎	
conjunction	5647 Sep 27 14:40	7°♎39'41	1°04'17
minimum elong	5647 Sep 27 15:24	7°♎40'52	1°04'16
max. Earth dist.	5647 Oct 08 16:49	14°♎47'57	2.65546 AU
	5647 Nov 01 11:52	0°♏	
morning rise	5647 Nov 12 12:51	7°♏00'35	
	5647 Dec 18 22:51	0°♐	
	5648 Feb 04 20:46	0°♑	
desc. node	5648 Mar 05 06:23	18°♑12'50	
	5648 Mar 24 12:31	0°♒	
	5648 May 14 09:23	0°♓	
	5648 Jul 14 19:05	0°♈	
retrograde	5648 Aug 21 20:05	7°♈47'00	
opposition	5648 Sep 21 12:33	2°♈33'16	-6°22'35
greatest brilliancy	5648 Sep 22 21:10	2°♈10'12	-2.8m
min. Earth dist.	5648 Sep 27 03:44	0°♈58'14	0.39189 AU
	5648 Sep 30 18:29	30°℞♓	
direct	5648 Oct 23 15:14	26°♓39'33	
	5648 Nov 15 03:10	0°♈	
	5649 Jan 14 07:24	0°♉	
asc. node	5649 Jan 18 19:58	2°♉52'14	
	5649 Feb 28 11:32	0°♊	
	5649 Apr 13 01:53	0°♋	
	5649 May 27 05:47	0°♌	
	5649 Jul 11 14:46	0°♍	
	5649 Aug 27 03:41	0°♎	
evening set	5649 Sep 17 23:41	13°♎54'21	
	5649 Oct 13 08:18	0°♏	
max. Earth dist.	5649 Oct 30 18:03	11°♏02'47	2.67922 AU
conjunction	5649 Nov 02 16:12	12°♏54'13	0°39'30
minimum elong	5649 Nov 02 17:12	12°♏55'48	0°39'30
	5649 Nov 29 12:14	0°♐	
morning rise	5649 Dec 16 14:22	10°♐57'08	
	5650 Jan 15 01:29	0°♑	
desc. node	5650 Jan 21 04:52	3°♑59'57	
	5650 Mar 01 16:54	0°♒	
	5650 Apr 15 09:59	0°♓	
	5650 May 29 09:16	0°♈	

	5650 Jul 12 07:28	0°♉	
	5650 Aug 27 16:20	0°♊	
retrograde	5650 Nov 08 14:29	27°♊29'47	
min. Earth dist.	5650 Dec 04 18:44	22°♊59'55	0.39975 AU
asc. node	5650 Dec 06 18:38	22°♊23'58	
opposition	5650 Dec 11 17:21	20°♊53'01	0°20'30
greatest brilliancy	5650 Dec 11 14:50	20°♊54'56	-2.8m
direct	5651 Jan 11 04:24	15°♊19'05	
	5651 Mar 05 15:15	0°♋	
	5651 Apr 30 11:33	0°♌	
	5651 Jun 19 13:41	0°♍	
	5651 Aug 07 13:01	0°♎	
	5651 Sep 24 22:32	0°♏	
evening set	5651 Oct 24 14:24	18°♏39'12	
	5651 Nov 11 09:59	0°♐	
max. Earth dist.	5651 Nov 22 18:36	7°♐18'08	2.64820 AU
conjunction	5651 Dec 08 15:00	17°♐35'23	0°00'17
minimum elong	5651 Dec 08 15:01	17°♐35'24	0°00'19
behind sun begin	5651 Dec 07 20:21	17°♐04'57	
behind sun end	5651 Dec 09 09:41	18°♐05'52	
desc. node	5651 Dec 09 03:11	17°♐55'13	
	5651 Dec 27 11:48	0°♑	
morning rise	5652 Jan 22 17:39	17°♑35'38	
	5652 Feb 09 21:07	0°♒	
	5652 Mar 23 13:44	0°♓	
	5652 May 03 18:26	0°♈	
	5652 Jun 12 21:48	0°♉	
	5652 Jul 22 18:23	0°♊	
	5652 Sep 01 16:58	0°♋	
	5652 Oct 16 19:27	0°♌	
asc. node	5652 Oct 23 17:47	4°♌06'32	
retrograde	5652 Dec 30 11:56	28°♌01'02	
min. Earth dist.	5653 Jan 30 07:28	21°♌30'37	0.53160 AU
opposition	5653 Feb 06 20:44	18°♌38'27	4°34'01
greatest brilliancy	5653 Feb 05 14:34	19°♌07'11	-2.0m
direct	5653 Mar 14 02:05	10°♌51'33	
	5653 May 18 23:00	0°♍	
	5653 Jul 15 02:34	0°♎	
	5653 Sep 04 10:00	0°♏	
	5653 Oct 22 23:38	0°♐	
desc. node	5653 Oct 26 02:19	1°♐58'29	
evening set	5653 Nov 29 22:21	24°♐32'13	
	5653 Dec 08 03:59	0°♑	
max. Earth dist.	5653 Dec 18 09:46	6°♑52'11	2.56468 AU
conjunction	5654 Jan 16 12:09	26°♑50'44	-0°42'32
minimum elong	5654 Jan 16 10:48	26°♑48'22	0°42'29
	5654 Jan 21 00:16	0°♒	
	5654 Mar 03 17:43	0°♓	
morning rise	5654 Mar 08 12:57	3°♓32'26	
	5654 Apr 12 18:14	0°♈	
	5654 May 21 16:22	0°♉	
	5654 Jun 29 06:36	0°♊	
	5654 Aug 07 11:28	0°♋	
asc. node	5654 Sep 10 17:18	25°♋10'42	
	5654 Sep 17 12:05	0°♌	
	5654 Nov 01 08:46	0°♍	
	5654 Dec 27 16:04	0°♎	
retrograde	5655 Feb 07 14:41	9°♎39'21	
min. Earth dist.	5655 Mar 15 19:28	1°♎15'51	0.63659 AU
	5655 Mar 18 23:40	30°℞♍	
opposition	5655 Mar 19 18:51	29°♍40'53	4°35'27
greatest brilliancy	5655 Mar 19 03:41	29°♍56'00	-1.5m
direct	5655 Apr 27 14:25	20°♍35'14	
	5655 Jun 10 16:58	0°♎	
	5655 Aug 12 18:33	0°♏	
desc. node	5655 Sep 13 01:43	17°♏49'26	
	5655 Oct 03 07:42	0°♐	
	5655 Nov 19 09:21	0°♑	
	5656 Jan 02 05:23	0°♒	
evening set	5656 Jan 12 12:36	7°♒19'54	
max. Earth dist.	5656 Jan 27 02:34	17°♒53'27	2.43925 AU
	5656 Feb 12 12:05	0°♓	
conjunction	5656 Mar 08 02:50	18°♓36'25	-1°05'30
minimum elong	5656 Mar 08 03:03	18°♓36'50	1°05'30
	5656 Mar 22 21:55	0°♈	
	5656 Apr 30 05:50	0°♉	
morning rise	5656 May 12 19:37	9°♉54'44	
	5656 Jun 07 08:25	0°♊	
	5656 Jul 16 02:43	0°♋	
asc. node	5656 Jul 28 14:54	9°♋27'57	
	5656 Aug 25 09:57	0°♌	
	5656 Oct 07 04:48	0°♍	
	5656 Nov 22 22:26	0°♎	
	5657 Jan 18 00:41	0°♏	
retrograde	5657 Mar 13 03:23	14°♏02'31	
opposition	5657 Apr 22 12:05	4°♏18'19	3°07'24
min. Earth dist.	5657 Apr 22 09:41	4°♏20'42	0.67939 AU
greatest brilliancy	5657 Apr 22 12:05	4°♏18'19	-1.3m
	5657 May 03 18:38	30°℞♎	
direct	5657 Jun 02 10:23	24°♎30'35	
	5657 Jul 05 00:59	0°♏	
desc. node	5657 Jul 31 00:32	9°♏49'09	
	5657 Sep 09 04:25	0°♐	
	5657 Oct 29 03:10	0°♑	
	5657 Dec 12 17:35	0°♒	
	5658 Jan 23 00:59	0°♓	
	5658 Mar 03 05:28	0°♈	
evening set	5658 Mar 11 06:08	6°♈16'38	
	5658 Apr 10 07:39	0°♉	
conjunction	5658 May 18 23:51	0°♊33'24	-0°19'10
minimum elong	5658 May 19 01:49	0°♊37'16	0°19'10
	5658 May 18 06:50	0°♊	
asc. node	5658 Jun 15 14:10	22°♊01'04	
	5658 Jun 26 00:24	0°♋	
max. Earth dist.	5658 Jul 08 22:38	9°♋46'48	2.39645 AU
morning rise	5658 Jul 27 20:46	23°♋50'33	
	5658 Aug 05 06:56	0°♌	
	5658 Sep 16 17:05	0°♍	
	5658 Oct 31 19:16	0°♎	
	5658 Dec 19 12:20	0°♏	
	5659 Feb 14 02:00	0°♐	
retrograde	5659 Apr 17 09:26	17°♐06'18	
opposition	5659 May 26 17:46	8°♐00'33	0°47'53
greatest brilliancy	5659 May 26 20:41	7°♐57'42	-1.4m
min. Earth dist.	5659 May 30 10:42	6°♐33'51	0.65611 AU
desc. node	5659 Jun 17 23:00	0°♐22'37	
	5659 Jun 19 12:51	30°℞♏	
direct	5659 Jul 07 07:57	27°♏57'53	
	5659 Jul 26 02:28	0°♐	
	5659 Oct 04 11:14	0°♑	
	5659 Nov 21 04:18	0°♒	
	5660 Jan 02 09:25	0°♓	
	5660 Feb 10 20:22	0°♈	
	5660 Mar 20 01:32	0°♉	
	5660 Apr 27 04:49	0°♊	
asc. node	5660 May 02 14:04	4°♊11'48	
evening set	5660 May 22 13:56	19°♊38'02	
	5660 Jun 05 05:00	0°♋	
	5660 Jul 15 19:31	0°♌	

conjunction	5660 Jul 25 01:17	6°♌37'47	0°49'34
minimum elong	5660 Jul 24 23:01	6°♌33'44	0°49'31
	5660 Aug 27 11:00	0°♍	
max. Earth dist.	5660 Aug 31 02:46	2°♍30'14	2.53245 AU
morning rise	5660 Sep 18 22:30	15°♍13'34	
	5660 Oct 11 06:50	0°♎	
	5660 Nov 27 07:27	0°♏	
	5661 Jan 15 23:19	0°♐	
	5661 Mar 12 01:14	0°♑	
desc. node	5661 May 04 21:32	20°♑53'57	
retrograde	5661 May 27 18:41	23°♑45'55	
opposition	5661 Jul 03 17:42	15°♑46'47	-2°22'25
greatest brilliancy	5661 Jul 04 07:51	15°♑33'39	-1.8m
min. Earth dist.	5661 Jul 10 23:50	13°♑05'33	0.56890 AU
direct	5661 Aug 13 01:24	6°♑12'24	
	5661 Oct 22 04:00	0°♒	
	5661 Dec 08 03:31	0°♓	
	5662 Jan 18 05:31	0°♈	
	5662 Feb 26 07:31	0°♉	
asc. node	5662 Mar 20 12:53	17°♉12'08	
	5662 Apr 06 03:54	0°♊	
	5662 May 15 21:27	0°♋	
	5662 Jun 26 05:37	0°♌	
evening set	5662 Jul 21 09:54	17°♌37'05	
	5662 Aug 08 12:24	0°♍	
conjunction	5662 Sep 11 17:53	22°♍50'37	1°07'34
minimum elong	5662 Sep 11 18:03	22°♍50'53	1°07'34
	5662 Sep 22 16:05	0°♎	
max. Earth dist.	5662 Sep 29 06:47	4°♎18'12	2.63106 AU
morning rise	5662 Oct 29 10:17	23°♎42'00	
	5662 Nov 08 07:53	0°♏	
	5662 Dec 26 02:27	0°♐	
	5663 Feb 13 00:02	0°♑	
desc. node	5663 Mar 22 20:17	22°♑24'27	
	5663 Apr 05 03:32	0°♒	
	5663 Jun 03 12:14	0°♓	
retrograde	5663 Jul 24 03:34	12°♓20'46	
opposition	5663 Aug 25 16:11	6°♓16'38	-5°57'06
greatest brilliancy	5663 Aug 27 09:05	5°♓44'05	-2.5m
min. Earth dist.	5663 Sep 02 18:55	3°♓42'40	0.43714 AU
	5663 Sep 17 19:03	30°♑℞♒	
direct	5663 Sep 30 01:24	28°♒56'29	
	5663 Oct 12 08:53	0°♓	
	5663 Dec 17 10:08	0°♈	
	5664 Jan 30 10:56	0°♉	
asc. node	5664 Feb 05 11:36	4°♉18'46	
	5664 Mar 11 23:36	0°♊	
	5664 Apr 22 16:29	0°♋	
	5664 Jun 04 14:56	0°♌	
	5664 Jul 19 03:58	0°♍	
evening set	5664 Sep 02 21:05	29°♍48'53	
	5664 Sep 03 03:59	0°♎	
conjunction	5664 Oct 19 15:37	29°♎42'51	0°51'21
minimum elong	5664 Oct 19 16:42	29°♎44'34	0°51'21
	5664 Oct 20 02:24	0°♏	
max. Earth dist.	5664 Oct 21 20:06	1°♏06'17	2.67647 AU
morning rise	5664 Dec 02 23:49	27°♏53'42	
	5664 Dec 06 07:13	0°♐	
	5665 Jan 22 05:49	0°♑	
desc. node	5665 Feb 06 19:30	10°♑00'50	
	5665 Mar 09 17:43	0°♒	
	5665 Apr 24 22:31	0°♓	
	5665 Jun 10 10:42	0°♈	
	5665 Jul 29 14:31	0°♉	
retrograde	5665 Oct 11 09:45	26°♉31'28	
min. Earth dist.	5665 Nov 08 08:28	21°♉58'15	0.37121 AU
opposition	5665 Nov 11 02:20	21°♉13'32	-3°04'32
greatest brilliancy	5665 Nov 10 22:31	21°♉16'08	-3.0m
direct	5665 Dec 10 10:14	16°♉18'36	
asc. node	5665 Dec 23 11:49	17°♉25'31	
	5666 Jan 29 14:17	0°♊	
	5666 Mar 24 15:29	0°♋	
	5666 May 11 19:14	0°♌	
	5666 Jun 28 07:27	0°♍	
	5666 Aug 15 01:30	0°♎	
	5666 Oct 01 21:01	0°♏	
evening set	5666 Oct 10 12:56	5°♏27'31	
max. Earth dist.	5666 Nov 13 17:35	27°♏09'40	2.66678 AU
	5666 Nov 18 04:03	0°♐	
conjunction	5666 Nov 24 11:16	4°♐02'39	0°16'35
minimum elong	5666 Nov 24 11:46	4°♐03'27	0°16'36
desc. node	5666 Dec 25 18:01	24°♐20'21	
	5667 Jan 03 08:46	0°♑	
morning rise	5667 Jan 07 16:48	2°♑51'37	
	5667 Feb 17 03:29	0°♒	
	5667 Apr 01 10:41	0°♓	
	5667 May 13 09:59	0°♈	
	5667 Jun 23 10:58	0°♉	
	5667 Aug 03 11:21	0°♊	
	5667 Sep 15 13:11	0°♋	
	5667 Nov 08 11:51	0°♌	
asc. node	5667 Nov 10 10:06	0°♌45'52	
retrograde	5667 Dec 13 07:07	7°♌46'09	
min. Earth dist.	5668 Jan 10 20:10	2°♌08'24	0.47829 AU
	5668 Jan 16 19:11	30°℞♋	
greatest brilliancy	5668 Jan 17 23:51	29°♋34'00	-2.3m
opposition	5668 Jan 19 04:17	29°♋08'19	3°41'37
direct	5668 Feb 21 13:11	22°♋07'40	
	5668 Mar 30 21:45	0°♌	
	5668 Jun 01 15:46	0°♍	
	5668 Jul 24 01:49	0°♎	
	5668 Sep 11 22:02	0°♏	
	5668 Oct 29 22:57	0°♐	
desc. node	5668 Nov 11 16:42	8°♐09'44	
evening set	5668 Nov 15 00:07	10°♐17'50	
max. Earth dist.	5668 Dec 07 05:05	24°♐48'18	2.60353 AU
	5668 Dec 15 01:08	0°♑	
conjunction	5668 Dec 31 02:18	10°♑46'29	-0°26'27
minimum elong	5668 Dec 31 01:25	10°♑45'00	0°26'25
	5669 Jan 28 01:36	0°♒	
morning rise	5669 Feb 16 23:49	14°♒03'07	
	5669 Mar 11 02:41	0°♓	
	5669 Apr 20 12:19	0°♈	
	5669 May 29 19:09	0°♉	
	5669 Jul 07 17:22	0°♊	
	5669 Aug 16 07:25	0°♋	
asc. node	5669 Sep 27 08:56	0°♌12'06	
	5669 Sep 27 01:53	0°♌	
	5669 Nov 13 09:51	0°♍	
retrograde	5670 Jan 24 08:13	24°♍59'05	
min. Earth dist.	5670 Feb 27 14:13	17°♍14'59	0.60242 AU
greatest brilliancy	5670 Mar 04 03:08	15°♍27'32	-1.6m
opposition	5670 Mar 05 01:20	15°♍05'35	4°50'16
direct	5670 Apr 11 15:58	6°♍25'01	
	5670 Jun 26 23:32	0°♎	
	5670 Aug 21 20:49	0°♏	
desc. node	5670 Sep 29 15:37	23°♏03'12	
	5670 Oct 10 21:33	0°♐	
	5670 Nov 26 12:32	0°♑	
evening set	5670 Dec 25 07:39	19°♑31'09	

max. Earth dist.	5671 Jan 08 16:20	29°♉32'36	2.49204 AU
	5671 Jan 09 07:52	0°♒	
conjunction	5671 Feb 14 20:04	26°♒21'27	-1°01'43
minimum elong	5671 Feb 14 18:54	26°♒19'16	1°01'42
	5671 Feb 19 18:12	0°♓	
	5671 Mar 31 09:12	0°♈	
morning rise	5671 Apr 14 16:50	11°♈04'59	
	5671 May 08 21:47	0°♉	
	5671 Jun 16 03:38	0°♊	
	5671 Jul 25 00:06	0°♋	
asc. node	5671 Aug 15 08:59	16°♋03'12	
	5671 Sep 03 10:19	0°♌	
	5671 Oct 16 15:06	0°♍	
	5671 Dec 03 23:26	0°♎	
	5672 Feb 14 06:48	0°♏	
retrograde	5672 Feb 28 21:54	1°♏18'24	
	5672 Mar 13 22:37	30°℞♎	
min. Earth dist.	5672 Apr 07 18:05	22°♎03'32	0.67046 AU
opposition	5672 Apr 09 08:34	21°♎25'09	3°48'21
greatest brilliancy	5672 Apr 09 03:37	21°♎30'06	-1.3m
direct	5672 May 19 15:03	11°♎50'29	
	5672 Jul 23 20:12	0°♏	
desc. node	5672 Aug 16 14:34	11°♏41'45	
	5672 Sep 18 13:30	0°♐	
	5672 Nov 06 00:01	0°♑	
	5672 Dec 20 04:50	0°♒	
	5673 Jan 30 10:56	0°♓	
evening set	5673 Feb 13 22:31	10°♓55'44	
	5673 Mar 10 16:56	0°♈	
max. Earth dist.	5673 Apr 03 09:37	18°♈34'23	2.36973 AU
	5673 Apr 17 20:45	0°♉	
conjunction	5673 Apr 18 23:03	0°♉52'02	-0°47'13
minimum elong	5673 Apr 19 02:23	0°♉58'38	0°47'13
	5673 May 25 20:32	0°♊	
morning rise	5673 Jun 30 04:54	27°♊26'10	
asc. node	5673 Jul 02 07:29	29°♊02'49	
	5673 Jul 03 13:27	0°♋	
	5673 Aug 12 18:40	0°♌	
	5673 Sep 24 05:20	0°♍	
	5673 Nov 08 15:46	0°♎	
	5673 Dec 28 20:33	0°♏	
	5674 Mar 06 00:43	0°♐	
retrograde	5674 Apr 03 07:21	4°♐18'44	
	5674 Apr 29 09:22	30°℞♏	
opposition	5674 May 13 04:48	24°♏55'17	1°47'30
greatest brilliancy	5674 May 13 08:38	24°♏51'31	-1.3m
min. Earth dist.	5674 May 15 10:23	24°♏02'33	0.67298 AU
direct	5674 Jun 23 17:22	14°♏54'55	
desc. node	5674 Jul 04 13:19	15°♏36'26	
	5674 Aug 19 23:29	0°♐	
	5674 Oct 14 17:04	0°♑	
	5674 Nov 29 16:59	0°♒	
	5675 Jan 10 10:08	0°♓	
	5675 Feb 18 16:57	0°♈	
	5675 Mar 28 19:42	0°♉	
evening set	5675 Apr 25 03:02	21°♉34'53	
	5675 May 05 20:14	0°♊	
asc. node	5675 May 20 05:44	11°♊13'29	
	5675 Jun 13 16:43	0°♋	
conjunction	5675 Jul 02 03:26	13°♋51'45	0°28'25
minimum elong	5675 Jul 02 01:15	13°♋47'41	0°28'22
	5675 Jul 24 02:52	0°♌	
max. Earth dist.	5675 Aug 16 22:14	17°♌00'06	2.48146 AU
morning rise	5675 Sep 01 03:50	27°♌37'15	
	5675 Sep 04 14:43	0°♍	
	5675 Oct 19 10:25	0°♎	
	5675 Dec 05 20:36	0°♏	
	5676 Jan 26 01:11	0°♐	
	5676 Mar 28 19:35	0°♑	
retrograde	5676 May 10 11:36	8°♑52'48	
desc. node	5676 May 21 11:54	8°♑07'17	
opposition	5676 Jun 17 13:45	0°♑23'05	-1°02'20
greatest brilliancy	5676 Jun 17 18:48	0°♑18'17	-1.6m
	5676 Jun 18 13:59	30°℞♐	
min. Earth dist.	5676 Jun 23 12:30	28°♐07'21	0.61025 AU
direct	5676 Jul 28 16:40	20°♐29'43	
	5676 Sep 08 19:37	0°♑	
	5676 Nov 04 01:02	0°♒	
	5676 Dec 18 02:53	0°♓	
	5677 Jan 27 06:41	0°♈	
	5677 Mar 06 21:00	0°♉	
asc. node	5677 Apr 06 05:50	23°♉43'22	
	5677 Apr 14 08:02	0°♊	
	5677 May 23 16:35	0°♋	
evening set	5677 Jun 30 11:38	27°♋43'29	
	5677 Jul 03 15:49	0°♌	
	5677 Aug 15 14:54	0°♍	
conjunction	5677 Aug 25 11:32	6°♍41'30	1°05'51
minimum elong	5677 Aug 25 10:48	6°♍40'15	1°05'51
max. Earth dist.	5677 Sep 18 23:59	23°♍03'10	2.59869 AU
	5677 Sep 29 13:47	0°♎	
morning rise	5677 Oct 14 14:53	9°♎46'41	
	5677 Nov 15 06:36	0°♏	
	5678 Jan 02 13:00	0°♐	
	5678 Feb 21 22:05	0°♑	
desc. node	5678 Apr 08 11:15	24°♑54'20	
	5678 Apr 18 18:04	0°♒	
retrograde	5678 Jun 28 23:39	21°♒19'34	
opposition	5678 Aug 02 11:24	14°♒24'06	-4°39'50
greatest brilliancy	5678 Aug 03 20:35	13°♒55'29	-2.2m
min. Earth dist.	5678 Aug 11 00:17	11°♒27'56	0.49051 AU
direct	5678 Sep 09 10:04	5°♒53'08	
	5678 Nov 16 11:26	0°♓	
	5678 Dec 31 23:41	0°♈	
	5679 Feb 10 20:35	0°♉	
asc. node	5679 Feb 22 04:35	8°♉30'13	
	5679 Mar 22 20:01	0°♊	
	5679 May 02 11:30	0°♋	
	5679 Jun 13 14:24	0°♌	
	5679 Jul 27 12:32	0°♍	
evening set	5679 Aug 18 18:47	14°♍46'22	
	5679 Sep 11 02:24	0°♎	
conjunction	5679 Oct 06 04:05	16°♎09'17	1°00'29
minimum elong	5679 Oct 06 05:02	16°♎10'48	1°00'29
max. Earth dist.	5679 Oct 14 00:02	21°♎09'57	2.66528 AU
	5679 Oct 27 20:32	0°♏	
morning rise	5679 Nov 20 09:18	14°♏56'24	
	5679 Dec 14 04:27	0°♐	
	5680 Jan 30 16:33	0°♑	
desc. node	5680 Feb 24 10:20	15°♑35'08	
	5680 Mar 18 09:52	0°♒	
	5680 May 06 00:55	0°♓	
	5680 Jun 27 05:03	0°♈	
retrograde	5680 Sep 09 07:16	24°♈45'11	
opposition	5680 Oct 09 05:11	19°♈48'11	-5°47'46
greatest brilliancy	5680 Oct 10 00:40	19°♈35'08	-2.9m
min. Earth dist.	5680 Oct 12 07:16	18°♈58'34	0.37526 AU
direct	5680 Nov 08 18:48	14°♈33'38	
	5680 Dec 31 02:07	0°♉	

asc. node	5681 Jan 09 03:01	4°♉45'54	
	5681 Feb 19 19:29	0°♊	
	5681 Apr 06 07:07	0°♋	
	5681 May 21 10:49	0°♌	
	5681 Jul 06 10:08	0°♍	
	5681 Aug 22 07:34	0°♎	
evening set	5681 Sep 26 07:43	22°♎10'14	
	5681 Oct 08 16:44	0°♏	
max. Earth dist.	5681 Nov 04 20:50	17°♏13'49	2.67721 AU
conjunction	5681 Nov 10 14:24	20°♏52'44	0°31'33
minimum elong	5681 Nov 10 15:16	20°♏54'07	0°31'33
	5681 Nov 24 21:22	0°♐	
morning rise	5681 Dec 24 11:45	19°♐03'22	
	5682 Jan 10 07:15	0°♑	
desc. node	5682 Jan 11 08:33	0°♑41'21	
	5682 Feb 24 14:46	0°♒	
	5682 Apr 09 18:10	0°♓	
	5682 May 22 21:00	0°♈	
	5682 Jul 04 10:19	0°♉	
	5682 Aug 16 20:27	0°♊	
	5682 Oct 05 18:42	0°♋	
retrograde	5682 Nov 22 04:47	13°♋35'19	
asc. node	5682 Nov 27 03:35	13°♋24'17	
min. Earth dist.	5682 Dec 18 20:51	8°♋46'31	0.42479 AU
opposition	5682 Dec 26 20:20	6°♋09'37	1°53'47
greatest brilliancy	5682 Dec 26 05:05	6°♋22'12	-2.6m
direct	5683 Jan 27 07:07	0°♋04'27	
	5683 Apr 21 18:42	0°♌	
	5683 Jun 13 08:16	0°♍	
	5683 Aug 02 06:32	0°♎	
	5683 Sep 20 02:52	0°♏	
evening set	5683 Nov 01 16:34	26°♏45'03	
	5683 Nov 06 18:48	0°♐	
max. Earth dist.	5683 Nov 28 06:17	13°♐50'29	2.63448 AU
desc. node	5683 Nov 29 06:52	14°♐30'27	
conjunction	5683 Dec 16 22:38	26°♐04'41	-0°09'35
minimum elong	5683 Dec 16 22:19	26°♐04'10	0°09'33
behind sun begin	5683 Dec 16 06:44	25°♐38'29	
behind sun end	5683 Dec 17 13:53	26°♐29'53	
	5683 Dec 22 20:47	0°♑	
morning rise	5684 Jan 31 19:30	27°♑01'06	
	5684 Feb 05 03:05	0°♒	
	5684 Mar 18 13:58	0°♓	
	5684 Apr 28 11:31	0°♈	
	5684 Jun 07 06:42	0°♉	
	5684 Jul 16 17:31	0°♊	
	5684 Aug 26 00:23	0°♋	
	5684 Oct 08 07:47	0°♌	
asc. node	5684 Oct 14 03:00	3°♌43'04	
	5684 Dec 01 22:23	0°♍	
retrograde	5685 Jan 08 22:36	8°♍40'19	
min. Earth dist.	5685 Feb 10 00:09	1°♍42'16	0.55880 AU
	5685 Feb 14 10:09	30°℞♌	
opposition	5685 Feb 16 21:07	29°♌02'46	4°47'31
greatest brilliancy	5685 Feb 15 16:54	29°♌30'07	-1.8m
direct	5685 Mar 25 00:48	20°♌54'29	
	5685 May 06 12:45	0°♍	
	5685 Jul 08 13:26	0°♎	
	5685 Aug 30 03:15	0°♏	
desc. node	5685 Oct 16 05:49	28°♏47'07	
	5685 Oct 18 04:10	0°♐	
	5685 Dec 03 12:24	0°♑	
evening set	5685 Dec 08 19:32	3°♑32'15	
max. Earth dist.	5685 Dec 25 09:43	14°♑46'12	2.54045 AU
	5686 Jan 16 08:50	0°♒	
conjunction	5686 Jan 26 12:21	7°♒10'41	-0°50'47
minimum elong	5686 Jan 26 10:52	7°♒08'04	0°50'44
	5686 Feb 26 23:54	0°♓	
morning rise	5686 Mar 20 20:56	16°♓19'15	
	5686 Apr 07 21:03	0°♈	
	5686 May 16 15:29	0°♉	
	5686 Jun 24 02:03	0°♊	
	5686 Aug 02 02:50	0°♋	
asc. node	5686 Sep 01 00:57	22°♋13'13	
	5686 Sep 11 19:57	0°♌	
	5686 Oct 25 20:06	0°♍	
	5686 Dec 16 14:08	0°♎	
retrograde	5687 Feb 15 12:08	18°♎02'50	
min. Earth dist.	5687 Mar 24 17:00	9°♎19'30	0.65141 AU
opposition	5687 Mar 27 19:46	8°♎04'53	4°21'09
greatest brilliancy	5687 Mar 27 08:32	8°♎16'06	-1.4m
	5687 Apr 22 10:56	30°℞♍	
direct	5687 May 06 05:04	28°♍47'35	
	5687 May 20 16:28	0°♎	
	5687 Aug 06 00:53	0°♏	
desc. node	5687 Sep 03 04:56	15°♏26'00	
	5687 Sep 27 23:56	0°♐	
	5687 Nov 14 12:19	0°♑	
	5687 Dec 28 11:56	0°♒	
evening set	5688 Jan 23 19:34	18°♒55'42	
	5688 Feb 07 18:52	0°♓	
max. Earth dist.	5688 Feb 10 11:12	2°♓00'12	2.41069 AU
	5688 Mar 18 03:43	0°♈	
conjunction	5688 Mar 22 04:21	3°♈07'41	-1°02'51
minimum elong	5688 Mar 22 05:51	3°♈10'36	1°02'51
	5688 Apr 25 10:09	0°♉	
morning rise	5688 May 30 07:31	27°♉31'23	
	5688 Jun 02 11:13	0°♊	
	5688 Jul 11 04:10	0°♋	
asc. node	5688 Jul 19 00:07	5°♋57'04	
	5688 Aug 20 09:20	0°♌	
	5688 Oct 01 23:01	0°♍	
	5688 Nov 17 00:42	0°♎	
	5689 Jan 08 23:36	0°♏	
retrograde	5689 Mar 20 18:27	21°♏43'55	
opposition	5689 Apr 30 00:36	12°♏06'15	2°40'00
greatest brilliancy	5689 Apr 30 02:36	12°♏04'16	-1.3m
min. Earth dist.	5689 Apr 30 18:35	11°♏48'26	0.67986 AU
direct	5689 Jun 10 05:31	2°♏12'49	
desc. node	5689 Jul 21 04:01	10°♏30'51	
	5689 Sep 02 04:45	0°♐	
	5689 Oct 23 15:33	0°♑	
	5689 Dec 07 16:37	0°♒	
	5690 Jan 18 03:25	0°♓	
	5690 Feb 26 08:57	0°♈	
evening set	5690 Mar 26 23:20	22°♈28'44	
	5690 Apr 05 11:23	0°♉	
	5690 May 13 10:44	0°♊	
conjunction	5690 Jun 04 16:18	17°♊19'29	-0°00'55
minimum elong	5690 Jun 04 16:24	17°♊19'42	0°00'57
behind sun begin	5690 Jun 03 11:06	16°♊23'02	
behind sun end	5690 Jun 05 21:43	18°♊16'19	
asc. node	5690 Jun 05 23:05	18°♊18'57	
	5690 Jun 21 04:47	0°♋	
max. Earth dist.	5690 Jul 27 03:17	26°♋49'45	2.42624 AU
	5690 Jul 31 11:38	0°♌	
morning rise	5690 Aug 10 14:02	7°♌17'52	
	5690 Sep 11 20:57	0°♍	
	5690 Oct 26 18:49	0°♎	
	5690 Dec 13 20:36	0°♏	

	5691 Feb 05 16:23	0°♐	
retrograde	5691 Apr 25 18:58	25°♐05'44	
opposition	5691 Jun 03 18:21	16°♐11'28	0°09'38
greatest brilliancy	5691 Jun 03 19:09	16°♐10'42	-1.5m
min. Earth dist.	5691 Jun 08 07:11	14°♐26'10	0.64247 AU
desc. node	5691 Jun 08 02:56	14°♐30'15	
direct	5691 Jul 15 06:54	6°♐09'48	
	5691 Sep 26 17:29	0°♑	
	5691 Nov 15 07:12	0°♒	
	5691 Dec 28 00:42	0°♓	
	5692 Feb 05 16:33	0°♈	
	5692 Mar 15 00:11	0°♉	
asc. node	5692 Apr 22 21:14	0°♊30'58	
	5692 Apr 22 05:20	0°♊	
	5692 May 31 07:36	0°♋	
evening set	5692 Jun 06 14:08	4°♋42'46	
	5692 Jul 11 00:14	0°♌	
conjunction	5692 Aug 06 04:39	18°♌34'00	0°57'46
minimum elong	5692 Aug 06 02:52	18°♌30'54	0°57'43
	5692 Aug 22 17:19	0°♍	
max. Earth dist.	5692 Sep 07 10:30	10°♍40'42	2.55831 AU
morning rise	5692 Sep 28 16:42	24°♍50'39	
	5692 Oct 06 13:04	0°♎	
	5692 Nov 22 09:14	0°♏	
	5693 Jan 10 09:28	0°♐	
	5693 Mar 04 04:18	0°♑	
desc. node	5693 Apr 25 01:27	24°♑10'44	
	5693 May 13 12:36	0°♒	
retrograde	5693 Jun 07 13:06	3°♒23'39	
	5693 Jun 30 22:05	30°℞♑	
opposition	5693 Jul 13 17:56	25°♑44'36	-3°11'39
greatest brilliancy	5693 Jul 14 14:43	25°♑25'44	-1.9m
min. Earth dist.	5693 Jul 21 14:50	22°♑53'11	0.54282 AU
direct	5693 Aug 22 10:09	16°♑26'46	
	5693 Oct 11 03:02	0°♒	
	5693 Dec 01 01:37	0°♓	
	5694 Jan 12 03:01	0°♈	
	5694 Feb 20 15:40	0°♉	
asc. node	5694 Mar 10 21:23	14°♉00'48	
	5694 Mar 31 18:44	0°♊	
	5694 May 10 17:49	0°♋	
	5694 Jun 21 06:45	0°♌	
evening set	5694 Aug 01 06:40	28°♌20'36	
	5694 Aug 03 17:27	0°♍	
	5694 Sep 17 23:40	0°♎	
conjunction	5694 Sep 20 23:12	1°♎56'26	1°06'10
minimum elong	5694 Sep 20 23:44	1°♎57'18	1°06'11
max. Earth dist.	5694 Oct 04 21:56	10°♎58'14	2.64569 AU
	5694 Nov 03 15:22	0°♏	
morning rise	5694 Nov 06 14:04	1°♏52'19	
	5694 Dec 21 04:51	0°♐	
	5695 Feb 07 11:49	0°♑	
desc. node	5695 Mar 13 00:22	20°♑25'32	
	5695 Mar 29 01:25	0°♒	
	5695 May 21 10:19	0°♓	
retrograde	5695 Aug 09 05:11	26°♓31'56	
opposition	5695 Sep 09 17:21	20°♓57'00	-6°21'36
greatest brilliancy	5695 Sep 11 08:17	20°♓27'53	-2.6m
min. Earth dist.	5695 Sep 16 19:22	18°♓50'59	0.41036 AU
direct	5695 Oct 13 07:16	14°♓24'43	
	5695 Dec 04 03:44	0°♈	
	5696 Jan 22 00:14	0°♉	
asc. node	5696 Jan 26 21:04	3°♉18'08	
	5696 Mar 05 03:24	0°♊	
	5696 Apr 16 17:16	0°♋	
	5696 May 30 05:28	0°♌	
	5696 Jul 14 03:43	0°♍	
	5696 Aug 29 09:42	0°♎	
evening set	5696 Sep 11 15:08	8°♎27'54	
	5696 Oct 15 11:06	0°♏	
conjunction	5696 Oct 27 17:37	7°♏47'41	0°44'41
minimum elong	5696 Oct 27 18:41	7°♏49'22	0°44'42
max. Earth dist.	5696 Oct 27 00:30	7°♏20'30	2.67909 AU
	5696 Dec 01 15:18	0°♐	
morning rise	5696 Dec 10 18:49	5°♐50'23	
	5697 Jan 17 08:49	0°♑	
desc. node	5697 Jan 27 22:52	6°♑51'31	
	5697 Mar 04 09:06	0°♒	
	5697 Apr 18 16:34	0°♓	
	5697 Jun 02 14:35	0°♈	
	5697 Jul 18 03:42	0°♉	
	5697 Sep 07 04:06	0°♊	
retrograde	5697 Oct 27 23:39	14°♊48'40	
min. Earth dist.	5697 Nov 23 10:17	10°♊24'48	0.38354 AU
opposition	5697 Nov 28 20:35	8°♊51'20	-1°04'42
greatest brilliancy	5697 Nov 28 16:29	8°♊54'18	-2.9m
asc. node	5697 Dec 13 19:52	5°♊05'19	
direct	5697 Dec 28 14:41	3°♊39'35	
	5698 Mar 14 10:41	0°♋	
	5698 May 04 20:55	0°♌	
	5698 Jun 22 15:18	0°♍	
	5698 Aug 10 00:14	0°♎	
	5698 Sep 27 03:16	0°♏	
evening set	5698 Oct 18 14:38	13°♏30'40	
	5698 Nov 13 13:00	0°♐	
max. Earth dist.	5698 Nov 19 01:26	3°♐32'16	2.65755 AU
conjunction	5698 Dec 02 12:38	12°♐13'31	0°07'12
minimum elong	5698 Dec 02 12:51	12°♐13'53	0°07'13
behind sun begin	5698 Dec 01 19:55	11°♐46'28	
behind sun end	5698 Dec 03 05:47	12°♐41'18	
desc. node	5698 Dec 15 20:54	20°♐54'35	
	5698 Dec 29 16:48	0°♑	
morning rise	5699 Jan 16 03:59	11°♑37'07	
	5699 Feb 12 07:06	0°♒	
	5699 Mar 27 06:43	0°♓	
	5699 May 07 19:51	0°♈	
	5699 Jun 17 08:10	0°♉	
	5699 Jul 27 14:46	0°♊	
	5699 Sep 07 05:25	0°♋	
	5699 Oct 24 09:08	0°♌	
asc. node	5699 Oct 31 18:53	3°♌58'52	
retrograde	5699 Dec 23 22:47	20°♌07'55	
min. Earth dist.	5700 Jan 22 17:05	14°♌01'16	0.50818 AU
greatest brilliancy	5700 Jan 29 10:51	11°♌31'00	-2.1m
opposition	5700 Jan 30 17:27	11°♌02'28	4°17'32
direct	5700 Mar 06 04:14	3°♌35'00	
	5700 May 25 10:37	0°♍	
	5700 Jul 19 05:05	0°♎	
	5700 Sep 07 20:37	0°♏	
	5700 Oct 26 05:12	0°♐	
desc. node	5700 Nov 02 20:10	4°♐51'15	
evening set	5700 Nov 24 10:56	18°♐49'27	
	5700 Dec 11 09:35	0°♑	
max. Earth dist.	5700 Dec 14 11:56	2°♑03'56	2.58290 AU
conjunction	5701 Jan 10 06:38	20°♑13'19	-0°35'58
minimum elong	5701 Jan 10 05:28	20°♑11'18	0°35'57
	5701 Jan 24 08:54	0°♒	
morning rise	5701 Feb 28 18:04	25°♒14'20	
	5701 Mar 07 06:40	0°♓	

	5701 Apr 16 11:56	0°♈	
	5701 May 25 14:17	0°♉	
	5701 Jul 03 07:40	0°♊	
	5701 Aug 11 15:27	0°♋	
asc. node	5701 Sep 18 18:35	27°♋49'08	
	5701 Sep 21 21:00	0°♌	
	5701 Nov 06 10:18	0°♍	
	5702 Jan 08 00:25	0°♎	
retrograde	5702 Feb 02 15:11	3°♎59'35	
	5702 Feb 26 16:32	30°℞♍	
min. Earth dist.	5702 Mar 09 23:40	25°♍52'44	0.62246 AU
opposition	5702 Mar 14 14:47	24°♍02'26	4°43'39
greatest brilliancy	5702 Mar 13 20:30	24°♍20'35	-1.5m
direct	5702 Apr 21 21:54	15°♍07'07	
	5702 Jun 18 13:00	0°♎	
	5702 Aug 16 22:26	0°♏	
desc. node	5702 Sep 20 19:41	20°♏15'26	
	5702 Oct 06 20:04	0°♐	
	5702 Nov 22 18:16	0°♑	
evening set	5703 Jan 05 10:02	29°♑50'36	
	5703 Jan 05 15:23	0°♒	
max. Earth dist.	5703 Jan 19 06:58	9°♒43'04	2.46296 AU
	5703 Feb 16 00:41	0°♓	
conjunction	5703 Feb 28 01:06	8°♓59'45	-1°05'03
minimum elong	5703 Feb 28 00:34	8°♓58'43	1°05'02
	5703 Mar 27 13:29	0°♈	
morning rise	5703 May 01 15:58	27°♈23'08	
	5703 May 04 23:47	0°♉	
	5703 Jun 12 03:31	0°♊	
	5703 Jul 20 22:00	0°♋	
asc. node	5703 Aug 06 16:08	12°♋39'10	
	5703 Aug 30 05:11	0°♌	
	5703 Oct 12 01:44	0°♍	
	5703 Nov 28 06:15	0°♎	
	5704 Jan 26 13:06	0°♏	
retrograde	5704 Mar 08 12:10	9°♏07'09	
	5704 Apr 16 04:43	30°℞♎	
opposition	5704 Apr 17 22:19	29°♎18'35	3°25'20
min. Earth dist.	5704 Apr 17 04:12	29°♎36'38	0.67670 AU
greatest brilliancy	5704 Apr 17 20:21	29°♎20'33	-1.3m
direct	5704 May 28 14:00	19°♎36'05	
	5704 Jul 14 09:15	0°♏	
desc. node	5704 Aug 07 18:29	10°♏37'43	
	5704 Sep 13 12:36	0°♐	
	5704 Nov 01 20:33	0°♑	
	5704 Dec 16 08:20	0°♒	
	5705 Jan 26 16:18	0°♓	
evening set	5705 Feb 28 18:40	25°♓13'38	
	5705 Mar 06 22:08	0°♈	
	5705 Apr 14 01:12	0°♉	
conjunction	5705 May 06 18:30	17°♉59'18	-0°32'24
minimum elong	5705 May 06 21:33	18°♉05'20	0°32'23
	5705 May 22 00:09	0°♊	
max. Earth dist.	5705 Jun 16 06:44	19°♊42'18	2.37598 AU
asc. node	5705 Jun 23 15:04	25°♊21'48	
	5705 Jun 29 16:30	0°♋	
morning rise	5705 Jul 17 08:12	13°♋20'50	
	5705 Aug 08 21:12	0°♌	
	5705 Sep 20 05:46	0°♍	
	5705 Nov 04 09:15	0°♎	
	5705 Dec 23 12:48	0°♏	
	5706 Feb 20 17:34	0°♐	
retrograde	5706 Apr 12 06:37	12°♐04'26	
opposition	5706 May 21 21:51	2°♐50'25	1°13'29
greatest brilliancy	5706 May 22 01:29	2°♐46'52	-1.4m
min. Earth dist.	5706 May 24 23:27	1°♐38'23	0.66495 AU
	5706 May 29 05:37	30°℞♏	
desc. node	5706 Jun 25 17:02	23°♏05'35	
direct	5706 Jul 02 12:19	22°♏48'05	
	5706 Aug 08 18:20	0°♐	
	5706 Oct 09 07:25	0°♑	
	5706 Nov 25 06:59	0°♒	
	5707 Jan 06 07:52	0°♓	
	5707 Feb 14 17:42	0°♈	
	5707 Mar 24 21:59	0°♉	
	5707 May 01 23:30	0°♊	
asc. node	5707 May 11 15:18	7°♊32'06	
evening set	5707 May 12 08:56	8°♊06'22	
	5707 Jun 09 21:02	0°♋	
conjunction	5707 Jul 17 02:08	27°♋38'17	0°41'36
minimum elong	5707 Jul 16 23:41	27°♋33'51	0°41'34
	5707 Jul 20 08:16	0°♌	
max. Earth dist.	5707 Aug 26 23:50	26°♌38'51	2.51024 AU
	5707 Aug 31 20:28	0°♍	
morning rise	5707 Sep 13 03:11	8°♍23'01	
	5707 Oct 15 14:39	0°♎	
	5707 Dec 01 17:24	0°♏	
	5708 Jan 20 21:09	0°♐	
	5708 Mar 18 03:39	0°♑	
desc. node	5708 May 12 15:50	17°♑15'06	
retrograde	5708 May 21 01:49	17°♑40'06	
opposition	5708 Jun 27 14:02	9°♑26'33	-1°47'39
greatest brilliancy	5708 Jun 27 23:53	9°♑17'18	-1.7m
min. Earth dist.	5708 Jul 04 06:56	6°♑55'33	0.58849 AU
	5708 Jul 31 14:17	30°℞♐	
direct	5708 Aug 07 07:58	29°♐41'56	
	5708 Aug 14 03:57	0°♑	
	5708 Oct 28 11:15	0°♒	
	5708 Dec 13 00:37	0°♓	
	5709 Jan 22 16:25	0°♈	
	5709 Mar 02 12:59	0°♉	
asc. node	5709 Mar 28 14:25	20°♉16'15	
	5709 Apr 10 04:23	0°♊	
	5709 May 19 16:45	0°♋	
	5709 Jun 29 19:37	0°♌	
evening set	5709 Jul 13 16:10	9°♌48'20	
	5709 Aug 11 21:27	0°♍	
conjunction	5709 Sep 05 12:38	16°♍34'01	1°07'31
minimum elong	5709 Sep 05 12:26	16°♍33'41	1°07'31
	5709 Sep 25 21:43	0°♎	
max. Earth dist.	5709 Sep 26 01:55	0°♎06'52	2.61757 AU
morning rise	5709 Oct 24 05:03	18°♎19'11	
	5709 Nov 11 12:46	0°♏	
	5709 Dec 29 11:12	0°♐	
	5710 Feb 16 21:44	0°♑	
desc. node	5710 Mar 30 14:28	24°♑00'43	
	5710 Apr 10 14:23	0°♒	
	5710 Jun 19 12:58	0°♓	
retrograde	5710 Jul 13 15:02	3°♓12'17	
	5710 Aug 05 08:47	30°℞♒	
opposition	5710 Aug 16 01:13	26°♒44'16	-5°26'34
greatest brilliancy	5710 Aug 17 15:58	26°♒12'07	-2.3m
min. Earth dist.	5710 Aug 24 12:39	23°♒56'23	0.46078 AU
direct	5710 Sep 21 16:12	18°♒49'14	
	5710 Nov 03 19:18	0°♓	
	5710 Dec 24 19:26	0°♈	
	5711 Feb 05 02:32	0°♉	
asc. node	5711 Feb 13 12:49	6°♉10'58	
	5711 Mar 17 19:27	0°♊	
	5711 Apr 27 22:36	0°♋	

	5711 Jun 09 10:32	0°♌	
	5711 Jul 23 15:15	0°♍	
evening set	5711 Aug 29 02:47	23°♍58'51	
	5711 Sep 07 09:41	0°♎	
conjunction	5711 Oct 15 12:43	24°♎27'37	0°55'30
minimum elong	5711 Oct 15 13:46	24°♎29'18	0°55'31
max. Earth dist.	5711 Oct 20 05:06	27°♎26'39	2.67248 AU
	5711 Oct 24 05:28	0°♏	
morning rise	5711 Nov 29 04:53	22°♏51'00	
	5711 Dec 10 11:13	0°♐	
	5712 Jan 26 15:28	0°♑	
desc. node	5712 Feb 15 13:32	12°♑42'30	
	5712 Mar 13 15:10	0°♒	
	5712 Apr 29 17:51	0°♓	
	5712 Jun 17 01:52	0°♈	
	5712 Aug 10 23:36	0°♉	
retrograde	5712 Sep 28 13:21	12°♉50'41	
opposition	5712 Oct 28 15:39	7°♉50'58	-4°28'38
greatest brilliancy	5712 Oct 28 19:52	7°♉48'10	-3.0m
min. Earth dist.	5712 Oct 28 12:12	7°♉53'16	0.36870 AU
direct	5712 Nov 27 05:53	2°♉56'04	
asc. node	5712 Dec 31 12:45	10°♉03'38	
	5713 Feb 09 23:04	0°♊	
	5713 Mar 30 19:54	0°♋	
	5713 May 16 09:21	0°♌	
	5713 Jul 02 02:30	0°♍	
	5713 Aug 18 10:15	0°♎	
evening set	5713 Oct 05 11:49	0°♏17'27	
	5713 Oct 05 00:46	0°♏	
max. Earth dist.	5713 Nov 11 00:13	23°♏26'08	2.67248 AU
conjunction	5713 Nov 19 12:30	28°♏52'19	0°22'59
minimum elong	5713 Nov 19 13:11	28°♏53'24	0°23'00
	5713 Nov 21 06:49	0°♐	
morning rise	5714 Jan 02 13:00	27°♐20'31	
desc. node	5714 Jan 02 12:09	27°♐19'08	
	5714 Jan 06 14:19	0°♑	
	5714 Feb 20 14:58	0°♒	
	5714 Apr 05 07:10	0°♓	
	5714 May 17 17:54	0°♈	
	5714 Jun 28 08:57	0°♉	
	5714 Aug 09 04:30	0°♊	
	5714 Sep 23 00:50	0°♋	
asc. node	5714 Nov 18 11:45	26°♋11'31	
retrograde	5714 Dec 05 13:00	28°♋15'12	
min. Earth dist.	5715 Jan 02 03:34	23°♋00'56	0.45391 AU
opposition	5715 Jan 10 12:59	20°♋06'13	3°03'51
greatest brilliancy	5715 Jan 09 12:27	20°♋27'35	-2.4m
direct	5715 Feb 12 00:46	13°♋29'33	
	5715 Apr 11 18:42	0°♌	
	5715 Jun 07 15:24	0°♍	
	5715 Jul 28 20:22	0°♎	
	5715 Sep 16 05:42	0°♏	
	5715 Nov 03 03:06	0°♐	
evening set	5715 Nov 10 19:27	4°♐54'39	
desc. node	5715 Nov 20 10:48	11°♐07'11	
max. Earth dist.	5715 Dec 04 22:25	20°♐32'59	2.61840 AU
	5715 Dec 19 06:13	0°♑	
conjunction	5715 Dec 26 10:54	4°♑47'50	-0°19'24
minimum elong	5715 Dec 26 10:15	4°♑46'45	0°19'23
	5716 Feb 01 10:14	0°♒	
morning rise	5716 Feb 11 08:06	6°♒55'10	
	5716 Mar 14 16:29	0°♓	
	5716 Apr 24 07:44	0°♈	
	5716 Jun 02 20:01	0°♉	
	5716 Jul 11 22:56	0°♊	
	5716 Aug 20 18:16	0°♋	
	5716 Oct 01 23:34	0°♌	
asc. node	5716 Oct 05 10:07	2°♌18'49	
	5716 Nov 20 02:36	0°♍	
retrograde	5717 Jan 18 22:14	18°♍41'23	
min. Earth dist.	5717 Feb 21 05:24	11°♍16'46	0.58413 AU
greatest brilliancy	5717 Feb 26 06:40	9°♍18'01	-1.7m
opposition	5717 Feb 27 07:46	8°♍53'22	4°52'03
direct	5717 Apr 05 07:37	0°♍26'02	
	5717 Jul 02 07:39	0°♎	
	5717 Aug 25 15:34	0°♏	
desc. node	5717 Oct 07 09:55	25°♏43'58	
	5717 Oct 14 06:29	0°♐	
	5717 Nov 29 19:48	0°♑	
evening set	5717 Dec 19 00:33	12°♑54'47	
max. Earth dist.	5718 Jan 03 03:14	23°♑18'37	2.51444 AU
	5718 Jan 12 16:55	0°♒	
conjunction	5718 Feb 07 03:13	18°♒10'32	-0°57'44
minimum elong	5718 Feb 07 01:49	18°♒08'00	0°57'41
	5718 Feb 23 06:31	0°♓	
morning rise	5718 Apr 04 07:47	0°♈13'08	
	5718 Apr 04 00:57	0°♈	
	5718 May 12 16:28	0°♉	
	5718 Jun 20 00:04	0°♊	
	5718 Jul 28 21:21	0°♋	
asc. node	5718 Aug 23 10:01	19°♋06'40	
	5718 Sep 07 08:46	0°♌	
	5718 Oct 20 18:07	0°♍	
	5718 Dec 09 01:11	0°♎	
retrograde	5719 Feb 24 06:12	26°♎13'02	
min. Earth dist.	5719 Apr 03 09:40	17°♎11'20	0.66323 AU
opposition	5719 Apr 05 15:58	16°♎17'08	4°03'10
greatest brilliancy	5719 Apr 05 08:24	16°♎24'41	-1.4m
direct	5719 May 15 13:14	6°♎49'31	
	5719 Jul 30 10:59	0°♏	
desc. node	5719 Aug 25 08:48	13°♏25'43	
	5719 Sep 23 10:44	0°♐	
	5719 Nov 10 13:01	0°♑	
	5719 Dec 24 17:00	0°♒	
	5720 Feb 04 00:43	0°♓	
evening set	5720 Feb 05 22:08	1°♓24'52	
max. Earth dist.	5720 Mar 03 18:29	21°♓48'27	2.38473 AU
	5720 Mar 14 08:42	0°♈	
conjunction	5720 Apr 07 09:11	18°♈47'43	-0°55'46
minimum elong	5720 Apr 07 11:56	18°♈53'08	0°55'45
	5720 Apr 21 14:03	0°♉	
	5720 May 29 14:11	0°♊	
morning rise	5720 Jun 17 21:56	15°♊05'46	
	5720 Jul 07 06:16	0°♋	
asc. node	5720 Jul 10 08:55	2°♋22'16	
	5720 Aug 16 10:12	0°♌	
	5720 Sep 27 20:09	0°♍	
	5720 Nov 12 10:04	0°♎	
	5721 Jan 02 09:59	0°♏	
retrograde	5721 Mar 29 11:30	29°♏25'09	
opposition	5721 May 08 13:32	19°♏55'00	2°10'03
greatest brilliancy	5721 May 08 16:49	19°♏51'46	-1.3m
min. Earth dist.	5721 May 10 03:37	19°♏17'25	0.67734 AU
direct	5721 Jun 18 23:16	9°♏57'02	
desc. node	5721 Jul 12 07:18	12°♏56'50	
	5721 Aug 26 04:52	0°♐	
	5721 Oct 18 22:06	0°♑	
	5721 Dec 03 13:15	0°♒	
	5722 Jan 14 04:49	0°♓	

	5722 Feb 22 11:41	0°♈	
	5722 Apr 01 14:30	0°♉	
evening set	5722 Apr 13 06:24	9°♉14'10	
	5722 May 09 14:07	0°♊	
asc. node	5722 May 28 07:03	14°♊35'22	
	5722 Jun 17 08:36	0°♋	
conjunction	5722 Jun 21 13:55	3°♋12'16	0°16'37
minimum elong	5722 Jun 21 12:25	3°♋09'26	0°16'34
	5722 Jul 27 16:06	0°♌	
max. Earth dist.	5722 Aug 09 19:48	9°♌28'59	2.45699 AU
morning rise	5722 Aug 24 05:10	19°♌40'44	
	5722 Sep 08 01:16	0°♍	
	5722 Oct 22 20:07	0°♎	
	5722 Dec 09 10:17	0°♏	
	5723 Jan 30 10:39	0°♐	
	5723 Apr 10 16:53	0°♑	
retrograde	5723 May 05 13:45	3°♑20'39	
	5723 May 28 16:23	30°℞♐	
desc. node	5723 May 30 05:58	29°♐32'26	
opposition	5723 Jun 13 02:22	24°♐39'24	-0°31'17
greatest brilliancy	5723 Jun 13 04:39	24°♐37'13	-1.5m
min. Earth dist.	5723 Jun 18 10:24	22°♐36'36	0.62588 AU
direct	5723 Jul 24 10:50	14°♐41'07	
	5723 Sep 18 06:19	0°♑	
	5723 Nov 09 23:40	0°♒	
	5723 Dec 23 11:35	0°♓	
	5724 Feb 01 10:25	0°♈	
	5724 Mar 10 21:46	0°♉	
asc. node	5724 Apr 14 06:55	26°♉55'57	
	5724 Apr 18 05:33	0°♊	
	5724 May 27 10:05	0°♋	
evening set	5724 Jun 21 11:25	18°♋35'28	
	5724 Jul 07 05:03	0°♌	
conjunction	5724 Aug 18 10:15	29°♌36'34	1°03'18
minimum elong	5724 Aug 18 09:04	29°♌34'33	1°03'16
	5724 Aug 18 23:56	0°♍	
max. Earth dist.	5724 Sep 15 05:39	18°♍22'50	2.58156 AU
	5724 Oct 02 20:06	0°♎	
morning rise	5724 Oct 08 22:45	3°♎59'28	
	5724 Nov 18 12:57	0°♏	
	5725 Jan 06 01:18	0°♐	
	5725 Feb 26 06:12	0°♑	
desc. node	5725 Apr 16 05:21	25°♑24'52	
	5725 Apr 26 13:45	0°♒	
retrograde	5725 Jun 20 07:39	13°♒44'14	
opposition	5725 Jul 25 14:07	6°♒28'16	-4°02'12
greatest brilliancy	5725 Jul 26 18:01	6°♒03'33	-2.0m
min. Earth dist.	5725 Aug 02 21:32	3°♒31'54	0.51438 AU
	5725 Aug 14 11:33	30°℞♑	
direct	5725 Sep 02 09:24	27°♑33'30	
	5725 Sep 21 17:40	0°♒	
	5725 Nov 23 19:35	0°♓	
	5726 Jan 06 11:56	0°♈	
	5726 Feb 15 16:35	0°♉	
asc. node	5726 Mar 02 06:12	11°♉03'42	
	5726 Mar 27 05:38	0°♊	
	5726 May 06 12:10	0°♋	
	5726 Jun 17 07:19	0°♌	
	5726 Jul 30 22:46	0°♍	
evening set	5726 Aug 12 10:37	8°♍21'50	
	5726 Sep 14 08:04	0°♎	
conjunction	5726 Sep 30 18:13	10°♎37'59	1°03'18
minimum elong	5726 Sep 30 19:02	10°♎39'17	1°03'19
max. Earth dist.	5726 Oct 11 08:12	17°♎26'06	2.65753 AU
	5726 Oct 31 00:12	0°♏	
morning rise	5726 Nov 15 12:45	9°♏51'29	
	5726 Dec 17 10:02	0°♐	
	5727 Feb 03 05:36	0°♑	
desc. node	5727 Mar 04 04:12	18°♑00'14	
	5727 Mar 23 15:36	0°♒	
	5727 May 12 20:50	0°♓	
	5727 Jul 09 16:09	0°♈	
retrograde	5727 Aug 27 22:08	12°♈16'12	
opposition	5727 Sep 27 08:06	7°♈07'08	-6°17'41
greatest brilliancy	5727 Sep 28 14:51	6°♈45'41	-2.8m
min. Earth dist.	5727 Oct 02 14:13	5°♈39'32	0.38780 AU
direct	5727 Oct 29 03:06	1°♈22'18	
	5728 Jan 12 07:39	0°♉	
asc. node	5728 Jan 18 03:59	3°♉35'48	
	5728 Feb 27 10:12	0°♊	
	5728 Apr 11 08:08	0°♋	
	5728 May 25 15:12	0°♌	
	5728 Jul 10 01:31	0°♍	
	5728 Aug 25 15:04	0°♎	
evening set	5728 Sep 21 02:40	16°♎51'02	
	5728 Oct 11 20:14	0°♏	
max. Earth dist.	5728 Nov 02 02:52	13°♏29'58	2.67916 AU
conjunction	5728 Nov 05 16:35	15°♏46'09	0°37'15
minimum elong	5728 Nov 05 17:34	15°♏47'41	0°37'16
	5728 Nov 28 00:42	0°♐	
morning rise	5728 Dec 19 14:12	13°♐49'30	
	5729 Jan 13 14:14	0°♑	
desc. node	5729 Jan 19 02:26	3°♑35'14	
	5729 Feb 28 05:12	0°♒	
	5729 Apr 13 20:36	0°♓	
	5729 May 27 16:16	0°♈	
	5729 Jul 10 06:40	0°♉	
	5729 Aug 24 16:55	0°♊	
	5729 Oct 26 17:58	0°♋	
retrograde	5729 Nov 12 18:54	2°♋01'51	
	5729 Nov 29 16:59	30°℞♊	
asc. node	5729 Dec 05 04:23	28°♊36'29	
min. Earth dist.	5729 Dec 09 01:30	27°♊28'56	0.40385 AU
opposition	5729 Dec 16 05:31	25°♊15'38	0°45'12
greatest brilliancy	5729 Dec 15 23:48	25°♊20'05	-2.8m
direct	5730 Jan 15 20:46	19°♊36'06	
	5730 Feb 28 14:55	0°♋	
	5730 Apr 28 01:34	0°♌	
	5730 Jun 17 16:04	0°♍	
	5730 Aug 05 20:18	0°♎	
	5730 Sep 23 08:38	0°♏	
evening set	5730 Oct 27 15:58	21°♏33'25	
	5730 Nov 09 22:13	0°♐	
max. Earth dist.	5730 Nov 25 10:01	9°♐57'18	2.64585 AU
desc. node	5730 Dec 07 00:47	17°♐29'38	
conjunction	5730 Dec 11 16:38	20°♐32'16	-0°02'33
minimum elong	5730 Dec 11 16:34	20°♐32'10	0°02'32
behind sun begin	5730 Dec 10 21:54	20°♐01'38	
behind sun end	5730 Dec 12 11:15	21°♐02'42	
	5730 Dec 26 01:47	0°♑	
morning rise	5731 Jan 25 22:09	20°♑41'48	
	5731 Feb 08 12:21	0°♒	
	5731 Mar 23 05:38	0°♓	
	5731 May 03 10:21	0°♈	
	5731 Jun 12 12:57	0°♉	
	5731 Jul 22 07:18	0°♊	
	5731 Sep 01 00:17	0°♋	
	5731 Oct 15 09:26	0°♌	
asc. node	5731 Oct 23 04:26	4°♌45'10	

	5731 Dec 20 06:14	0°♍	
retrograde	5732 Jan 03 21:31	1°♍28'05	
	5732 Jan 18 01:36	30°℞♌	
min. Earth dist.	5732 Feb 03 21:59	24°♌52'33	0.53685 AU
greatest brilliancy	5732 Feb 10 02:25	22°♌31'18	-1.9m
opposition	5732 Feb 11 08:23	22°♌02'39	4°39'20
direct	5732 Mar 17 18:45	14°♌11'25	
	5732 May 15 09:18	0°♍	
	5732 Jul 12 23:21	0°♎	
	5732 Sep 02 16:00	0°♏	
	5732 Oct 21 10:28	0°♐	
desc. node	5732 Oct 23 23:48	1°♐36'56	
evening set	5732 Dec 03 02:33	27°♐34'34	
	5732 Dec 06 18:15	0°♑	
max. Earth dist.	5732 Dec 21 02:10	9°♑36'37	2.56032 AU
conjunction	5733 Jan 19 20:31	0°♒06'06	-0°44'51
minimum elong	5733 Jan 19 19:08	0°♒03'40	0°44'49
	5733 Jan 19 17:03	0°♒	
	5733 Mar 02 12:08	0°♓	
morning rise	5733 Mar 12 06:52	7°♓13'20	
	5733 Apr 11 13:27	0°♈	
	5733 May 20 11:35	0°♉	
	5733 Jun 28 00:55	0°♊	
	5733 Aug 06 03:38	0°♋	
asc. node	5733 Sep 09 02:17	25°♋03'53	
	5733 Sep 15 23:55	0°♌	
	5733 Oct 30 10:17	0°♍	
	5733 Dec 23 14:57	0°♎	
retrograde	5734 Feb 10 16:33	12°♎38'42	
min. Earth dist.	5734 Mar 19 02:14	4°♎10'38	0.63966 AU
opposition	5734 Mar 22 20:45	2°♎40'24	4°32'08
greatest brilliancy	5734 Mar 22 06:29	2°♎54'38	-1.5m
	5734 Mar 29 17:28	30°℞♍	
direct	5734 Apr 30 18:29	23°♍32'14	
	5734 Jun 05 10:12	0°♎	
	5734 Aug 10 12:44	0°♏	
desc. node	5734 Sep 10 22:50	17°♏40'53	
	5734 Oct 01 14:25	0°♐	
	5734 Nov 17 22:07	0°♑	
	5734 Dec 31 22:04	0°♒	
evening set	5735 Jan 16 02:51	10°♒49'21	
max. Earth dist.	5735 Jan 30 23:10	21°♒36'58	2.43393 AU
	5735 Feb 11 07:25	0°♓	
conjunction	5735 Mar 13 04:57	22°♓37'05	-1°05'16
minimum elong	5735 Mar 13 05:26	22°♓38'01	1°05'16
	5735 Mar 22 18:47	0°♈	
	5735 Apr 30 03:11	0°♉	
morning rise	5735 May 18 14:36	14°♉34'15	
	5735 Jun 07 05:11	0°♊	
	5735 Jul 15 21:51	0°♋	
asc. node	5735 Jul 28 00:54	9°♋12'04	
	5735 Aug 25 02:23	0°♌	
	5735 Oct 06 16:47	0°♍	
	5735 Nov 22 01:28	0°♎	
	5736 Jan 15 16:48	0°♏	
retrograde	5736 Mar 16 02:50	16°♏52'19	
opposition	5736 Apr 25 11:13	7°♏09'27	2°59'38
greatest brilliancy	5736 Apr 25 11:43	7°♏08'58	-1.3m
min. Earth dist.	5736 Apr 25 13:32	7°♏07'09	0.67968 AU
	5736 May 15 23:00	30°℞♎	
direct	5736 Jun 05 10:28	27°♎20'17	
	5736 Jun 27 11:01	0°♏	
desc. node	5736 Jul 28 21:47	10°♏27'57	
	5736 Sep 06 22:37	0°♐	
	5736 Oct 27 11:45	0°♑	

	5736 Dec 11 08:27	0°♒	
	5737 Jan 21 19:25	0°♓	
	5737 Mar 02 01:54	0°♈	
evening set	5737 Mar 15 17:34	10°♈40'47	
	5737 Apr 09 04:56	0°♉	
	5737 May 17 03:55	0°♊	
conjunction	5737 May 23 17:39	5°♊09'19	-0°14'52
minimum elong	5737 May 23 19:12	5°♊12'21	0°14'52
behind sun begin	5737 May 23 07:33	4°♊49'31	
behind sun end	5737 May 24 06:52	5°♊35'11	
asc. node	5737 Jun 14 00:34	21°♊41'53	
	5737 Jun 24 20:22	0°♋	
max. Earth dist.	5737 Jul 14 19:18	15°♋03'58	2.40196 AU
morning rise	5737 Aug 01 01:40	27°♋49'53	
	5737 Aug 04 00:57	0°♌	
	5737 Sep 15 08:17	0°♍	
	5737 Oct 30 06:20	0°♎	
	5737 Dec 17 15:25	0°♏	
	5738 Feb 11 00:28	0°♐	
retrograde	5738 Apr 20 11:11	19°♐56'56	
opposition	5738 May 29 18:24	10°♐53'24	0°37'05
greatest brilliancy	5738 May 29 20:49	10°♐51'04	-1.4m
min. Earth dist.	5738 Jun 02 16:00	9°♐22'20	0.65370 AU
desc. node	5738 Jun 15 21:01	4°♐40'27	
direct	5738 Jul 10 08:34	0°♐50'31	
	5738 Oct 02 05:04	0°♑	
	5738 Nov 19 14:22	0°♒	
	5739 Jan 01 01:33	0°♓	
	5739 Feb 09 15:16	0°♈	
	5739 Mar 19 21:29	0°♉	
	5739 Apr 27 00:40	0°♊	
asc. node	5739 May 01 22:42	3°♊50'09	
evening set	5739 May 28 02:40	24°♊00'36	
	5739 Jun 04 23:55	0°♋	
	5739 Jul 15 12:57	0°♌	
conjunction	5739 Jul 29 23:55	10°♌21'32	0°51'56
minimum elong	5739 Jul 29 21:44	10°♌17'41	0°51'55
	5739 Aug 27 02:32	0°♍	
max. Earth dist.	5739 Sep 03 22:34	5°♍21'45	2.53774 AU
morning rise	5739 Sep 23 08:37	18°♍26'59	
	5739 Oct 10 20:04	0°♎	
	5739 Nov 26 17:25	0°♏	
	5740 Jan 15 02:49	0°♐	
	5740 Mar 09 07:49	0°♑	
desc. node	5740 May 02 19:49	22°♑34'58	
retrograde	5740 May 31 06:28	26°♑52'02	
opposition	5740 Jul 07 01:59	18°♑56'35	-2°35'08
greatest brilliancy	5740 Jul 07 17:44	18°♑42'02	-1.8m
min. Earth dist.	5740 Jul 14 11:12	16°♑12'51	0.56426 AU
direct	5740 Aug 16 07:22	9°♑24'26	
	5740 Oct 19 10:12	0°♒	
	5740 Dec 06 10:56	0°♓	
	5741 Jan 16 20:08	0°♈	
	5741 Feb 25 00:45	0°♉	
asc. node	5741 Mar 18 22:19	16°♉56'08	
	5741 Apr 04 21:40	0°♊	
	5741 May 14 14:37	0°♋	
	5741 Jun 24 21:35	0°♌	
evening set	5741 Jul 25 02:58	21°♌07'10	
	5741 Aug 07 03:01	0°♍	
conjunction	5741 Sep 15 02:19	25°♍59'18	1°07'20
minimum elong	5741 Sep 15 02:34	25°♍59'44	1°07'19
	5741 Sep 21 05:24	0°♎	
max. Earth dist.	5741 Oct 01 21:09	6°♎56'02	2.63430 AU

morning rise	5741 Nov 01 12:48	26°♎37'48	
	5741 Nov 06 19:53	0°♏	
	5741 Dec 24 12:27	0°♐	
	5742 Feb 11 05:40	0°♑	
desc. node	5742 Mar 20 18:27	22°♑24'16	
	5742 Apr 02 21:37	0°♒	
	5742 May 30 02:04	0°♓	
retrograde	5742 Jul 28 12:28	16°♓15'34	
opposition	5742 Aug 29 21:55	10°♓16'45	-6°03'59
greatest brilliancy	5742 Aug 31 14:51	9°♓44'31	-2.5m
min. Earth dist.	5742 Sep 06 21:37	7°♓47'11	0.43196 AU
direct	5742 Oct 03 22:09	3°♓05'27	
	5742 Dec 14 15:50	0°♈	
	5743 Jan 28 14:07	0°♉	
asc. node	5743 Feb 03 22:14	4°♉29'28	
	5743 Mar 11 09:32	0°♊	
	5743 Apr 22 04:51	0°♋	
	5743 Jun 04 03:52	0°♌	
	5743 Jul 18 16:38	0°♍	
	5743 Sep 02 16:18	0°♎	
evening set	5743 Sep 07 02:35	2°♎51'00	
	5743 Oct 19 14:35	0°♏	
conjunction	5743 Oct 23 17:17	2°♏36'54	0°49'30
minimum elong	5743 Oct 23 18:22	2°♏38'37	0°49'31
max. Earth dist.	5743 Oct 25 09:23	3°♏40'36	2.67723 AU
	5743 Dec 05 19:24	0°♐	
morning rise	5743 Dec 06 23:35	0°♐44'51	
	5744 Jan 21 17:32	0°♑	
desc. node	5744 Feb 05 17:04	9°♑38'41	
	5744 Mar 08 03:38	0°♒	
	5744 Apr 23 04:12	0°♓	
	5744 Jun 08 07:04	0°♈	
	5744 Jul 26 08:18	0°♉	
	5744 Oct 01 15:09	0°♊	
retrograde	5744 Oct 16 06:44	1°♊25'01	
	5744 Oct 30 21:41	30°℞♉	
min. Earth dist.	5744 Nov 12 18:26	26°♉55'27	0.37277 AU
opposition	5744 Nov 16 02:18	26°♉01'00	-2°36'39
greatest brilliancy	5744 Nov 15 21:45	26°♉04'06	-3.0m
direct	5744 Dec 15 09:56	21°♉04'17	
asc. node	5744 Dec 21 21:14	21°♉20'42	
	5745 Jan 23 20:43	0°♊	
	5745 Mar 22 03:17	0°♋	
	5745 May 09 21:24	0°♌	
	5745 Jun 26 14:45	0°♍	
	5745 Aug 13 11:07	0°♎	
	5745 Sep 30 08:08	0°♏	
evening set	5745 Oct 13 14:22	8°♏20'57	
max. Earth dist.	5745 Nov 16 06:43	29°♏44'16	2.66532 AU
	5745 Nov 16 16:33	0°♐	
conjunction	5745 Nov 27 12:05	6°♐56'28	0°13'54
minimum elong	5745 Nov 27 12:30	6°♐57'09	0°13'56
behind sun begin	5745 Nov 27 03:13	6°♐42'12	
behind sun end	5745 Nov 27 21:48	7°♐12'06	
desc. node	5745 Dec 23 15:09	23°♐53'30	
	5746 Jan 01 22:32	0°♑	
morning rise	5746 Jan 10 19:02	5°♑50'50	
	5746 Feb 15 18:04	0°♒	
	5746 Mar 31 01:27	0°♓	
	5746 May 12 00:02	0°♈	
	5746 Jun 21 23:03	0°♉	
	5746 Aug 01 18:49	0°♊	
	5746 Sep 13 08:20	0°♋	
	5746 Nov 03 08:46	0°♌	
asc. node	5746 Nov 08 20:10	2°♌27'27	
retrograde	5746 Dec 16 22:00	11°♌33'47	
min. Earth dist.	5747 Jan 14 15:09	5°♌51'29	0.48398 AU
opposition	5747 Jan 22 23:22	2°♌50'28	3°53'09
greatest brilliancy	5747 Jan 21 17:55	3°♌17'13	-2.2m
	5747 Jan 31 05:32	30°℞♋	
direct	5747 Feb 25 14:13	25°♋44'31	
	5747 Mar 24 20:49	0°♌	
	5747 May 31 04:31	0°♍	
	5747 Jul 23 04:32	0°♎	
	5747 Sep 11 06:15	0°♏	
	5747 Oct 29 10:30	0°♐	
desc. node	5747 Nov 10 14:17	7°♐46'04	
evening set	5747 Nov 19 02:47	13°♐15'45	
max. Earth dist.	5747 Dec 10 23:09	27°♐33'58	2.59972 AU
	5747 Dec 14 15:15	0°♑	
conjunction	5748 Jan 04 07:58	13°♑54'08	-0°29'09
minimum elong	5748 Jan 04 06:59	13°♑52'29	0°29'07
	5748 Jan 27 17:40	0°♒	
morning rise	5748 Feb 21 12:17	17°♒29'28	
	5748 Mar 09 20:10	0°♓	
	5748 Apr 19 06:33	0°♈	
	5748 May 28 13:26	0°♉	
	5748 Jul 06 10:41	0°♊	
	5748 Aug 14 22:06	0°♋	
asc. node	5748 Sep 25 19:55	0°♌16'37	
	5748 Sep 25 10:20	0°♌	
	5748 Nov 10 23:16	0°♍	
retrograde	5749 Jan 27 11:45	28°♍04'34	
min. Earth dist.	5749 Mar 02 22:35	20°♍15'30	0.60640 AU
greatest brilliancy	5749 Mar 07 07:49	18°♍31'28	-1.6m
opposition	5749 Mar 08 05:12	18°♍10'17	4°49'31
direct	5749 Apr 14 22:32	9°♍26'36	
	5749 Jun 24 00:04	0°♎	
	5749 Aug 19 22:01	0°♏	
desc. node	5749 Sep 27 13:52	22°♏48'34	
	5749 Oct 09 06:49	0°♐	
	5749 Nov 25 02:18	0°♑	
evening set	5749 Dec 28 16:57	22°♑47'18	
	5750 Jan 08 00:37	0°♒	
max. Earth dist.	5750 Jan 11 18:16	2°♒38'08	2.48631 AU
conjunction	5750 Feb 18 14:50	0°♓03'40	-1°02'51
minimum elong	5750 Feb 18 13:48	0°♓01'45	1°02'50
	5750 Feb 18 12:52	0°♓	
	5750 Mar 30 04:53	0°♈	
morning rise	5750 Apr 19 05:13	15°♈30'34	
	5750 May 07 17:42	0°♉	
	5750 Jun 14 23:01	0°♊	
	5750 Jul 23 18:00	0°♋	
asc. node	5750 Aug 13 17:45	15°♋48'36	
	5750 Sep 02 01:25	0°♌	
	5750 Oct 15 00:50	0°♍	
	5750 Dec 01 19:24	0°♎	
	5751 Feb 04 20:59	0°♏	
retrograde	5751 Mar 03 21:30	4°♏08'49	
	5751 Mar 28 23:13	30°℞♎	
min. Earth dist.	5751 Apr 11 21:37	24°♎50'31	0.67193 AU
opposition	5751 Apr 13 07:39	24°♎16'34	3°42'02
greatest brilliancy	5751 Apr 13 03:23	24°♎20'49	-1.3m
direct	5751 May 23 15:07	14°♎40'12	
	5751 Jul 21 12:42	0°♏	
desc. node	5751 Aug 15 12:42	11°♏54'01	
	5751 Sep 17 15:18	0°♐	
	5751 Nov 05 11:27	0°♑	
	5751 Dec 19 21:16	0°♒	
	5752 Jan 30 06:20	0°♓	

evening set	5752 Feb 18 22:47	14°♓52'13	
	5752 Mar 09 13:50	0°♈	
max. Earth dist.	5752 Apr 16 07:33	29°♈39'21	2.36774 AU
	5752 Apr 16 17:59	0°♉	
conjunction	5752 Apr 23 15:32	5°♉27'32	-0°44'03
minimum elong	5752 Apr 23 18:55	5°♉34'15	0°44'02
	5752 May 24 17:07	0°♊	
asc. node	5752 Jun 30 16:15	28°♊43'02	
	5752 Jul 02 08:30	0°♋	
morning rise	5752 Jul 04 23:06	1°♋59'28	
	5752 Aug 11 11:27	0°♌	
	5752 Sep 22 18:55	0°♍	
	5752 Nov 07 00:13	0°♎	
	5752 Dec 26 16:50	0°♏	
	5753 Feb 27 23:34	0°♐	
retrograde	5753 Apr 06 07:34	7°♐07'49	
	5753 May 10 10:07	30°℞♏	
opposition	5753 May 16 04:12	27°♏46'18	1°37'44
greatest brilliancy	5753 May 16 07:59	27°♏42'35	-1.3m
min. Earth dist.	5753 May 18 14:16	26°♏49'13	0.67181 AU
direct	5753 Jun 26 17:01	17°♏45'14	
desc. node	5753 Jul 02 11:04	17°♏57'17	
	5753 Aug 16 08:08	0°♐	
	5753 Oct 12 19:36	0°♑	
	5753 Nov 28 05:59	0°♒	
	5754 Jan 09 04:03	0°♓	
	5754 Feb 17 13:22	0°♈	
	5754 Mar 27 17:05	0°♉	
evening set	5754 Apr 29 17:23	26°♉04'33	
	5754 May 04 17:22	0°♊	
asc. node	5754 May 18 16:34	10°♊54'14	
	5754 Jun 12 12:35	0°♋	
conjunction	5754 Jul 06 10:27	17°♋56'56	0°31'57
minimum elong	5754 Jul 06 08:07	17°♋52'37	0°31'53
	5754 Jul 22 20:42	0°♌	
max. Earth dist.	5754 Aug 20 04:50	20°♌13'52	2.48683 AU
	5754 Sep 03 06:00	0°♍	
morning rise	5754 Sep 04 20:57	1°♍07'04	
	5754 Oct 17 22:36	0°♎	
	5754 Dec 04 04:09	0°♏	
	5755 Jan 23 22:13	0°♐	
	5755 Mar 25 07:55	0°♑	
retrograde	5755 May 14 18:33	11°♑51'57	
desc. node	5755 May 20 10:02	11°♑40'14	
opposition	5755 Jun 21 18:26	3°♑25'22	-1°14'35
greatest brilliancy	5755 Jun 22 00:39	3°♑19'28	-1.6m
min. Earth dist.	5755 Jun 27 21:04	1°♑06'10	0.60636 AU
	5755 Jun 30 20:32	30°℞♐	
direct	5755 Aug 01 19:59	23°♐33'07	
	5755 Sep 04 17:17	0°♑	
	5755 Nov 03 00:50	0°♒	
	5755 Dec 17 15:02	0°♓	
	5756 Jan 26 23:36	0°♈	
	5756 Mar 05 15:50	0°♉	
asc. node	5756 Apr 04 15:51	23°♉25'28	
	5756 Apr 13 03:15	0°♊	
	5756 May 22 11:06	0°♋	
	5756 Jul 02 08:57	0°♌	
evening set	5756 Jul 04 09:25	1°♌26'43	
	5756 Aug 14 06:17	0°♍	
conjunction	5756 Aug 28 23:05	9°♍58'13	1°06'29
minimum elong	5756 Aug 28 22:30	9°♍57'14	1°06'28
max. Earth dist.	5756 Sep 21 14:17	25°♍42'14	2.60239 AU
	5756 Sep 28 03:14	0°♎	

morning rise	5756 Oct 17 19:19	12°♎47'06	
	5756 Nov 13 17:52	0°♏	
	5756 Dec 31 20:55	0°♐	
	5757 Feb 19 22:24	0°♑	
desc. node	5757 Apr 06 08:37	25°♑14'31	
	5757 Apr 15 15:54	0°♒	
retrograde	5757 Jul 03 00:07	24°♒50'19	
opposition	5757 Aug 06 06:44	17°♒59'39	-4°51'31
greatest brilliancy	5757 Aug 07 17:21	17°♒29'55	-2.2m
min. Earth dist.	5757 Aug 14 19:18	15°♒04'42	0.48493 AU
direct	5757 Sep 12 23:05	9°♒34'38	
	5757 Nov 13 11:42	0°♓	
	5757 Dec 30 03:25	0°♈	
	5758 Feb 09 07:53	0°♉	
asc. node	5758 Feb 20 14:06	8°♉24'48	
	5758 Mar 21 10:05	0°♊	
	5758 May 01 02:16	0°♋	
	5758 Jun 12 04:53	0°♌	
	5758 Jul 26 02:17	0°♍	
evening set	5758 Aug 22 02:55	17°♍54'56	
	5758 Sep 09 15:24	0°♎	
conjunction	5758 Oct 09 07:17	19°♎06'22	0°59'09
minimum elong	5758 Oct 09 08:16	19°♎07'56	0°59'09
max. Earth dist.	5758 Oct 16 15:15	23°♎47'33	2.66683 AU
	5758 Oct 26 08:52	0°♏	
morning rise	5758 Nov 23 09:38	17°♏48'10	
	5758 Dec 12 15:56	0°♐	
	5759 Jan 29 02:18	0°♑	
desc. node	5759 Feb 22 07:08	15°♑17'20	
	5759 Mar 17 15:38	0°♒	
	5759 May 04 21:22	0°♓	
	5759 Jun 24 21:10	0°♈	
retrograde	5759 Sep 15 04:44	29°♈26'26	
opposition	5759 Oct 15 03:53	24°♈30'11	-5°32'51
greatest brilliancy	5759 Oct 15 20:15	24°♈19'13	-2.9m
min. Earth dist.	5759 Oct 17 15:25	23°♈50'19	0.37329 AU
direct	5759 Nov 14 12:54	19°♈20'31	
	5759 Dec 26 21:38	0°♉	
asc. node	5760 Jan 08 13:34	6°♉07'31	
	5760 Feb 18 09:10	0°♊	
	5760 Apr 04 10:27	0°♋	
	5760 May 19 19:05	0°♌	
	5760 Jul 04 20:24	0°♍	
	5760 Aug 20 18:48	0°♎	
evening set	5760 Sep 29 09:35	25°♎04'04	
	5760 Oct 07 04:46	0°♏	
max. Earth dist.	5760 Nov 07 05:50	19°♏40'50	2.67650 AU
conjunction	5760 Nov 13 14:55	23°♏44'30	0°29'07
minimum elong	5760 Nov 13 15:43	23°♏45'48	0°29'08
	5760 Nov 23 10:14	0°♐	
morning rise	5760 Dec 27 12:44	21°♐58'03	
	5761 Jan 08 20:38	0°♑	
desc. node	5761 Jan 09 05:58	0°♑15'16	
	5761 Feb 23 03:54	0°♒	
	5761 Apr 08 06:04	0°♓	
	5761 May 21 06:20	0°♈	
	5761 Jul 02 14:51	0°♉	
	5761 Aug 14 13:55	0°♊	
	5761 Oct 01 13:41	0°♋	
asc. node	5761 Nov 25 13:16	17°♋50'27	
retrograde	5761 Nov 26 02:37	17°♋50'35	
min. Earth dist.	5761 Dec 22 22:44	12°♋57'45	0.43032 AU
greatest brilliancy	5761 Dec 30 07:51	10°♋30'57	-2.6m
opposition	5761 Dec 31 01:50	10°♋16'00	2°13'28
direct	5762 Jan 31 16:19	4°♋04'41	

	5762 Apr 18	21:02	0°♌		
	5762 Jun 11	08:17	0°♍		
	5762 Jul 31	13:22	0°♎		
	5762 Sep 18	13:05	0°♏		
evening set	5762 Nov 04	17:11	29°♏37'09		
	5762 Nov 05	07:30	0°♐		
desc. node	5762 Nov 27	04:45	14°♐04'42		
max. Earth dist.	5762 Nov 30	22:22	16°♐30'16	2.63169 AU	
conjunction	5762 Dec 20	00:23	29°♐01'46	-0°12'21	
minimum elong	5762 Dec 19	23:58	29°♐01'05	0°12'18	
behind sun begin	5762 Dec 19	11:27	28°♐40'24		
behind sun end	5762 Dec 20	12:30	29°♐21'48		
	5762 Dec 21	11:34	0°♑		
	5763 Feb 03	19:26	0°♒		
morning rise	5763 Feb 04	01:32	0°♒10'32		
	5763 Mar 18	07:11	0°♓		
	5763 Apr 28	04:48	0°♈		
	5763 Jun 06	23:09	0°♉		
	5763 Jul 16	07:56	0°♊		
	5763 Aug 25	10:21	0°♋		
	5763 Oct 07	06:33	0°♌		
asc. node	5763 Oct 13	11:24	4°♌02'43		
	5763 Nov 28	10:00	0°♍		
retrograde	5764 Jan 13	06:40	12°♍01'18		
min. Earth dist.	5764 Feb 14	13:49	4°♍57'23	0.56409 AU	
greatest brilliancy	5764 Feb 20	03:04	2°♍48'12	-1.8m	
opposition	5764 Feb 21	06:42	2°♍21'18	4°50'14	
	5764 Feb 27	12:14	30°℞♌		
direct	5764 Mar 28	14:25	24°♌08'50		
	5764 Apr 30	18:12	0°♍		
	5764 Jul 06	05:30	0°♎		
	5764 Aug 28	08:06	0°♏		
desc. node	5764 Oct 14	03:49	28°♏27'45		
	5764 Oct 16	14:44	0°♐		
	5764 Dec 02	02:42	0°♑		
evening set	5764 Dec 12	00:26	6°♑36'51		
max. Earth dist.	5764 Dec 28	06:28	17°♑38'55	2.53581 AU	
	5765 Jan 15	01:54	0°♒		
conjunction	5765 Jan 29	22:44	10°♒31'27	-0°52'46	
minimum elong	5765 Jan 29	21:16	10°♒28'50	0°52'44	
	5765 Feb 25	18:57	0°♓		
morning rise	5765 Mar 24	19:08	20°♓10'19		
	5765 Apr 06	17:14	0°♈		
	5765 May 15	11:52	0°♉		
	5765 Jun 22	21:37	0°♊		
	5765 Jul 31	20:19	0°♋		
asc. node	5765 Aug 30	10:52	22°♋04'18		
	5765 Sep 10	09:27	0°♌		
	5765 Oct 24	01:24	0°♍		
	5765 Dec 13	15:50	0°♎		
retrograde	5766 Feb 18	13:32	21°♎00'18		
min. Earth dist.	5766 Mar 27	22:44	12°♎12'46	0.65398 AU	
opposition	5766 Mar 30	20:57	11°♎02'38	4°16'32	
greatest brilliancy	5766 Mar 30	10:34	11°♎13'01	-1.4m	
direct	5766 May 09	07:46	1°♎43'04		
	5766 Aug 03	12:54	0°♏		
desc. node	5766 Sep 01	02:35	15°♏23'40		
	5766 Sep 26	05:10	0°♐		
	5766 Nov 13	00:33	0°♑		
	5766 Dec 27	04:16	0°♒		
evening set	5767 Jan 27	13:03	22°♒34'25		
	5767 Feb 06	13:51	0°♓		
max. Earth dist.	5767 Feb 15	15:30	6°♓47'19	2.40550 AU	
	5767 Mar 18	00:15	0°♈		
conjunction	5767 Mar 27	11:39	7°♈22'03	-1°01'35	
minimum elong	5767 Mar 27	13:26	7°♈25'33	1°01'35	
	5767 Apr 25	07:15	0°♉		
	5767 Jun 02	07:58	0°♊		
morning rise	5767 Jun 05	04:53	2°♊15'14		
	5767 Jul 10	23:35	0°♋		
asc. node	5767 Jul 18	10:10	5°♋40'03		
	5767 Aug 20	02:18	0°♌		
	5767 Oct 01	12:01	0°♍		
	5767 Nov 16	06:19	0°♎		
	5768 Jan 07	07:12	0°♏		
retrograde	5768 Mar 23	18:27	24°♏33'53		
opposition	5768 May 02	23:36	14°♏57'43	2°31'20	
greatest brilliancy	5768 May 03	01:53	14°♏55'27	-1.3m	
min. Earth dist.	5768 May 03	21:51	14°♏35'40	0.67967 AU	
direct	5768 Jun 13	04:50	5°♏03'05		
desc. node	5768 Jul 19	01:13	11°♏35'58		
	5768 Aug 30	15:39	0°♐		
	5768 Oct 21	22:32	0°♑		
	5768 Dec 06	07:07	0°♒		
	5769 Jan 16	21:47	0°♓		
	5769 Feb 25	05:17	0°♈		
evening set	5769 Mar 31	12:58	26°♈59'10		
	5769 Apr 04	08:18	0°♉		
	5769 May 12	07:15	0°♊		
asc. node	5769 Jun 04	08:34	17°♊58'57		
conjunction	5769 Jun 09	07:25	21°♊48'19	0°03'30	
minimum elong	5769 Jun 09	07:02	21°♊47'34	0°03'28	
behind sun begin	5769 Jun 08	02:12	20°♊52'03		
behind sun end	5769 Jun 10	11:52	22°♊43'01		
	5769 Jun 20	00:04	0°♋		
	5769 Jul 30	04:59	0°♌		
max. Earth dist.	5769 Jul 31	02:58	0°♌40'03	2.43212 AU	
morning rise	5769 Aug 14	14:47	11°♌07'15		
	5769 Sep 10	11:45	0°♍		
	5769 Oct 25	05:59	0°♎		
	5769 Dec 12	01:19	0°♏		
	5770 Feb 03	02:13	0°♐		
retrograde	5770 Apr 28	23:17	28°♐01'17		
opposition	5770 Jun 06	20:51	19°♐09'37	-0°01'55	
desc. node	5770 Jun 06	00:03	19°♐29'40		
greatest brilliancy	5770 Jun 06	21:03	19°♐09'25	-1.5m	
min. Earth dist.	5770 Jun 11	13:36	17°♐20'38	0.63954 AU	
direct	5770 Jul 18	08:36	9°♐08'16		
	5770 Sep 23	23:28	0°♑		
	5770 Nov 13	14:10	0°♒		
	5770 Dec 26	15:45	0°♓		
	5771 Feb 04	11:14	0°♈		
	5771 Mar 14	20:15	0°♉		
asc. node	5771 Apr 22	07:56	0°♊12'49		
	5771 Apr 22	01:21	0°♊		
	5771 May 31	02:33	0°♋		
evening set	5771 Jun 11	19:42	8°♋47'31		
	5771 Jul 10	17:26	0°♌		
conjunction	5771 Aug 10	21:49	22°♌05'26	0°59'25	
minimum elong	5771 Aug 10	20:10	22°♌02'34	0°59'25	
	5771 Aug 22	08:30	0°♍		
max. Earth dist.	5771 Sep 11	05:07	13°♍29'29	2.56285 AU	
morning rise	5771 Oct 03	00:13	27°♍58'51		
	5771 Oct 06	02:00	0°♎		
	5771 Nov 21	19:23	0°♏		
	5772 Jan 09	14:32	0°♐		
	5772 Mar 01	19:17	0°♑		
desc. node	5772 Apr 22	23:27	25°♑13'57		
	5772 May 05	23:52	0°♒		

retrograde	5772 Jun 11 07:44	6°♒41'14	
	5772 Jul 14 19:24	30°℞♑	
opposition	5772 Jul 17 07:04	29°♑06'35	-3°24'39
greatest brilliancy	5772 Jul 18 05:32	28°♑46'13	-1.9m
min. Earth dist.	5772 Jul 25 05:27	26°♑14'16	0.53743 AU
direct	5772 Aug 25 19:05	19°♑52'35	
	5772 Oct 06 19:59	0°♒	
	5772 Nov 29 01:13	0°♓	
	5773 Jan 10 13:54	0°♈	
	5773 Feb 19 06:50	0°♉	
asc. node	5773 Mar 09 07:29	13°♉49'12	
	5773 Mar 30 11:29	0°♊	
	5773 May 09 10:39	0°♋	
	5773 Jun 19 22:47	0°♌	
	5773 Aug 02 08:16	0°♍	
evening set	5773 Aug 04 18:38	1°♍38'33	
	5773 Sep 16 13:13	0°♎	
conjunction	5773 Sep 24 04:11	4°♎57'38	1°05'29
minimum elong	5773 Sep 24 04:48	4°♎58'38	1°05'29
max. Earth dist.	5773 Oct 07 11:23	13°♎33'32	2.64818 AU
	5773 Nov 02 03:46	0°♏	
morning rise	5773 Nov 09 14:35	4°♏44'11	
	5773 Dec 19 15:46	0°♐	
	5774 Feb 05 19:38	0°♑	
desc. node	5774 Mar 10 22:13	20°♑17'05	
	5774 Mar 27 01:34	0°♒	
	5774 May 18 10:25	0°♓	
	5774 Aug 02 17:12	0°♈	
retrograde	5774 Aug 14 02:04	0°♈46'32	
	5774 Aug 25 06:02	30°℞♓	
opposition	5774 Sep 14 07:32	25°♓17'34	-6°23'03
greatest brilliancy	5774 Sep 15 21:41	24°♓49'33	-2.7m
min. Earth dist.	5774 Sep 21 04:06	23°♓17'27	0.40531 AU
direct	5774 Oct 17 13:04	18°♓55'17	
	5774 Nov 29 06:09	0°♈	
	5775 Jan 19 15:11	0°♉	
asc. node	5775 Jan 25 05:22	3°♉43'26	
	5775 Mar 04 07:25	0°♊	
	5775 Apr 16 02:23	0°♋	
	5775 May 29 16:42	0°♌	
	5775 Jul 13 15:44	0°♍	
	5775 Aug 28 21:57	0°♎	
evening set	5775 Sep 15 18:26	11°♎24'58	
	5775 Oct 14 23:35	0°♏	
max. Earth dist.	5775 Oct 30 11:29	9°♏50'24	2.67939 AU
conjunction	5775 Oct 31 17:46	10°♏38'28	0°42'37
minimum elong	5775 Oct 31 18:48	10°♏40'07	0°42'38
	5775 Dec 01 04:05	0°♐	
morning rise	5775 Dec 14 17:44	8°♐40'03	
	5776 Jan 16 21:35	0°♑	
desc. node	5776 Jan 26 20:39	6°♑27'20	
	5776 Mar 02 21:01	0°♒	
	5776 Apr 17 02:00	0°♓	
	5776 May 31 18:43	0°♈	
	5776 Jul 15 19:26	0°♉	
	5776 Sep 02 19:50	0°♊	
retrograde	5776 Nov 01 10:20	19°♊32'43	
min. Earth dist.	5776 Nov 27 19:49	15°♊08'00	0.38653 AU
opposition	5776 Dec 03 14:50	13°♊26'32	-0°36'59
greatest brilliancy	5776 Dec 03 12:12	13°♊28'28	-2.9m
asc. node	5776 Dec 12 05:23	11°♊03'06	
direct	5777 Jan 02 13:11	8°♊10'19	
	5777 Mar 11 00:52	0°♋	
	5777 May 02 17:08	0°♌	
	5777 Jun 20 20:14	0°♍	
	5777 Aug 08 08:58	0°♎	
	5777 Sep 25 14:21	0°♏	
evening set	5777 Oct 21 15:36	16°♏22'45	
	5777 Nov 12 01:57	0°♐	
max. Earth dist.	5777 Nov 21 13:24	6°♐04'31	2.65567 AU
conjunction	5777 Dec 05 13:22	15°♐07'05	0°04'28
minimum elong	5777 Dec 05 13:30	15°♐07'19	0°04'30
behind sun begin	5777 Dec 04 19:22	14°♐37'54	
behind sun end	5777 Dec 06 07:39	15°♐36'44	
desc. node	5777 Dec 13 19:12	20°♐28'55	
	5777 Dec 28 07:14	0°♑	
morning rise	5778 Jan 19 06:46	14°♑37'57	
	5778 Feb 10 22:35	0°♒	
	5778 Mar 25 22:39	0°♓	
	5778 May 06 11:36	0°♈	
	5778 Jun 15 22:48	0°♉	
	5778 Jul 26 02:32	0°♊	
	5778 Sep 05 09:47	0°♋	
	5778 Oct 21 10:58	0°♌	
asc. node	5778 Oct 30 05:52	4°♌56'38	
retrograde	5778 Dec 27 10:46	23°♌41'38	
min. Earth dist.	5779 Jan 26 09:35	17°♌29'41	0.51361 AU
greatest brilliancy	5779 Feb 02 00:49	15°♌01'10	-2.1m
opposition	5779 Feb 03 07:35	14°♌32'18	4°25'16
direct	5779 Mar 09 23:26	7°♌00'01	
	5779 May 22 11:50	0°♍	
	5779 Jul 17 05:06	0°♎	
	5779 Sep 06 04:07	0°♏	
	5779 Oct 24 16:57	0°♐	
desc. node	5779 Oct 31 18:02	4°♐28'14	
evening set	5779 Nov 27 13:52	21°♐47'43	
	5779 Dec 10 00:26	0°♑	
max. Earth dist.	5779 Dec 17 05:22	4°♑48'11	2.57889 AU
conjunction	5780 Jan 13 13:07	23°♑22'43	-0°38'28
minimum elong	5780 Jan 13 11:52	23°♑20'34	0°38'25
	5780 Jan 23 02:02	0°♒	
morning rise	5780 Mar 03 08:30	28°♒45'32	
	5780 Mar 05 01:16	0°♓	
	5780 Apr 14 07:14	0°♈	
	5780 May 23 09:29	0°♉	
	5780 Jul 01 01:53	0°♊	
	5780 Aug 09 07:22	0°♋	
asc. node	5780 Sep 16 03:59	27°♋45'24	
	5780 Sep 19 08:00	0°♌	
	5780 Nov 03 08:38	0°♍	
	5780 Dec 31 19:30	0°♎	
retrograde	5781 Feb 04 17:45	7°♎00'52	
	5781 Mar 09 06:23	30°℞♍	
min. Earth dist.	5781 Mar 12 06:59	28°♍49'09	0.62592 AU
opposition	5781 Mar 16 17:17	27°♍03'22	4°41'19
greatest brilliancy	5781 Mar 15 23:53	27°♍20'42	-1.5m
direct	5781 Apr 24 02:23	18°♍05'26	
	5781 Jun 13 15:20	0°♎	
	5781 Aug 13 20:02	0°♏	
desc. node	5781 Sep 17 16:57	20°♏03'06	
	5781 Oct 04 04:08	0°♐	
	5781 Nov 20 07:45	0°♑	
	5782 Jan 03 08:29	0°♒	
evening set	5782 Jan 07 21:23	3°♒12'05	
max. Earth dist.	5782 Jan 21 19:43	13°♒09'15	2.45760 AU
	5782 Feb 13 20:12	0°♓	
conjunction	5782 Mar 02 22:31	12°♓48'31	-1°05'28
minimum elong	5782 Mar 02 22:12	12°♓47'56	1°05'27
	5782 Mar 25 10:25	0°♈	

	5782 May 02 21:03	0°♉	
morning rise	5782 May 05 06:43	1°♉53'25	
	5782 Jun 10 00:09	0°♊	
	5782 Jul 18 17:02	0°♋	
asc. node	5782 Aug 04 02:12	12°♋24'17	
	5782 Aug 27 21:23	0°♌	
	5782 Oct 09 13:08	0°♍	
	5782 Nov 25 07:08	0°♎	
	5783 Jan 21 09:42	0°♏	
retrograde	5783 Mar 11 12:16	11°♏57'32	
opposition	5783 Apr 20 21:34	2°♏10'04	3°18'07
min. Earth dist.	5783 Apr 20 07:51	2°♏23'44	0.67745 AU
greatest brilliancy	5783 Apr 20 20:10	2°♏11'27	-1.3m
	5783 Apr 26 09:21	30°℞♎	
direct	5783 May 31 13:48	22°♎26'08	
	5783 Jul 09 15:11	0°♏	
desc. node	5783 Aug 05 15:53	11°♏03'36	
	5783 Sep 11 09:53	0°♐	
	5783 Oct 31 05:55	0°♑	
	5783 Dec 14 23:28	0°♒	
	5784 Jan 25 10:50	0°♓	
evening set	5784 Mar 04 01:22	29°♓26'22	
	5784 Mar 04 18:41	0°♈	
	5784 Apr 11 22:35	0°♉	
conjunction	5784 May 10 11:57	22°♉35'57	-0°28'28
minimum elong	5784 May 10 14:43	22°♉41'24	0°28'26
	5784 May 19 21:19	0°♊	
asc. node	5784 Jun 21 02:09	25°♊04'10	
max. Earth dist.	5784 Jun 23 05:39	26°♊43'06	2.38022 AU
	5784 Jun 27 12:30	0°♋	
morning rise	5784 Jul 20 17:13	17°♋31'08	
	5784 Aug 06 15:06	0°♌	
	5784 Sep 17 20:39	0°♍	
	5784 Nov 01 19:35	0°♎	
	5784 Dec 20 13:46	0°♏	
	5785 Feb 16 01:40	0°♐	
retrograde	5785 Apr 14 08:00	14°♐54'03	
opposition	5785 May 23 21:34	5°♐42'07	1°03'06
greatest brilliancy	5785 May 24 00:53	5°♐38'52	-1.4m
min. Earth dist.	5785 May 27 03:27	4°♐25'54	0.66298 AU
	5785 Jun 08 07:46	30°℞♏	
desc. node	5785 Jun 22 15:07	26°♏33'22	
direct	5785 Jul 04 11:26	25°♏39'17	
	5785 Aug 01 16:52	0°♐	
	5785 Oct 06 04:58	0°♑	
	5785 Nov 22 17:48	0°♒	
	5786 Jan 04 00:07	0°♓	
	5786 Feb 12 12:36	0°♈	
	5786 Mar 22 17:55	0°♉	
	5786 Apr 29 19:24	0°♊	
asc. node	5786 May 09 00:23	7°♊11'17	
evening set	5786 May 16 00:31	12°♊37'38	
	5786 Jun 07 16:05	0°♋	
	5786 Jul 18 01:47	0°♌	
conjunction	5786 Jul 20 04:23	1°♌31'40	0°44'30
minimum elong	5786 Jul 20 01:57	1°♌27'16	0°44'27
max. Earth dist.	5786 Aug 29 00:22	29°♌40'03	2.51573 AU
	5786 Aug 29 11:56	0°♍	
morning rise	5786 Sep 15 15:26	11°♍42'01	
	5786 Oct 13 03:30	0°♎	
	5786 Nov 29 02:28	0°♏	
	5787 Jan 17 22:22	0°♐	
	5787 Mar 14 23:42	0°♑	
desc. node	5787 May 10 14:01	19°♑36'23	
retrograde	5787 May 24 11:29	20°♑42'18	
opposition	5787 Jun 30 20:03	12°♑32'05	-2°00'10
greatest brilliancy	5787 Jul 01 07:20	12°♑21'31	-1.7m
min. Earth dist.	5787 Jul 07 15:59	9°♑58'24	0.58419 AU
direct	5787 Aug 10 11:38	2°♑49'03	
	5787 Oct 26 02:57	0°♒	
	5787 Dec 11 10:13	0°♓	
	5788 Jan 21 07:53	0°♈	
	5788 Feb 29 06:35	0°♉	
asc. node	5788 Mar 25 23:16	19°♉58'35	
	5788 Apr 07 22:18	0°♊	
	5788 May 17 09:57	0°♋	
	5788 Jun 27 11:31	0°♌	
evening set	5788 Jul 16 11:57	13°♌26'17	
	5788 Aug 09 11:51	0°♍	
conjunction	5788 Sep 07 22:29	19°♍47'08	1°07'38
minimum elong	5788 Sep 07 22:26	19°♍47'03	1°07'37
	5788 Sep 23 10:39	0°♎	
max. Earth dist.	5788 Sep 27 14:26	2°♎43'05	2.62116 AU
morning rise	5788 Oct 26 07:59	21°♎16'58	
	5788 Nov 09 00:07	0°♏	
	5788 Dec 26 20:06	0°♐	
	5789 Feb 14 01:11	0°♑	
desc. node	5789 Mar 27 12:27	24°♑08'13	
	5789 Apr 07 02:06	0°♒	
	5789 Jun 10 06:25	0°♓	
retrograde	5789 Jul 16 19:16	6°♓55'40	
opposition	5789 Aug 19 01:54	0°♓32'45	-5°36'08
	5789 Aug 20 17:41	30°℞♒	
greatest brilliancy	5789 Aug 20 17:23	0°♓00'14	-2.4m
min. Earth dist.	5789 Aug 27 12:22	27°♒47'29	0.45535 AU
direct	5789 Sep 24 08:46	22°♒45'34	
	5789 Oct 28 07:35	0°♓	
	5789 Dec 21 13:49	0°♈	
	5790 Feb 02 09:59	0°♉	
asc. node	5790 Feb 10 23:22	6°♉14'14	
	5790 Mar 15 07:22	0°♊	
	5790 Apr 25 11:58	0°♋	
	5790 Jun 06 23:55	0°♌	
	5790 Jul 21 04:05	0°♍	
evening set	5790 Aug 31 09:40	27°♍04'43	
	5790 Sep 04 21:56	0°♎	
conjunction	5790 Oct 17 15:17	27°♎23'48	0°53'51
minimum elong	5790 Oct 17 16:21	27°♎25'31	0°53'51
	5790 Oct 21 17:25	0°♏	
max. Earth dist.	5790 Oct 21 20:28	0°♏04'51	2.67368 AU
morning rise	5790 Dec 01 04:47	25°♏42'39	
	5790 Dec 07 22:54	0°♐	
	5791 Jan 24 02:17	0°♑	
desc. node	5791 Feb 12 10:51	12°♑22'10	
	5791 Mar 11 23:28	0°♒	
	5791 Apr 27 20:16	0°♓	
	5791 Jun 14 14:03	0°♈	
	5791 Aug 06 01:04	0°♉	
retrograde	5791 Oct 03 13:44	17°♉43'23	
opposition	5791 Nov 02 16:57	12°♉40'53	-4°04'32
min. Earth dist.	5791 Nov 01 21:50	12°♉53'34	0.36864 AU
greatest brilliancy	5791 Nov 02 18:44	12°♉39'42	-3.0m
direct	5791 Dec 02 02:39	7°♉47'24	
asc. node	5791 Dec 29 22:38	12°♉35'04	
	5792 Feb 06 11:32	0°♊	
	5792 Mar 27 15:51	0°♋	
	5792 May 13 14:23	0°♌	
	5792 Jun 29 11:03	0°♍	
	5792 Aug 15 20:27	0°♎	
	5792 Oct 02 12:10	0°♏	

evening set	5792 Oct 07 13:49	3°♏11'48	
max. Earth dist.	5792 Nov 12 10:54	25°♏56'31	2.67141 AU
	5792 Nov 18 19:23	0°♐	
conjunction	5792 Nov 21 13:36	1°♐45'54	0°20'23
minimum elong	5792 Nov 21 14:12	1°♐46'52	0°20'24
desc. node	5792 Dec 30 09:06	26°♐51'57	
morning rise	5793 Jan 04 14:44	0°♑17'42	
	5793 Jan 04 03:57	0°♑	
	5793 Feb 18 05:10	0°♒	
	5793 Apr 02 21:08	0°♓	
	5793 May 15 06:37	0°♈	
	5793 Jun 25 18:47	0°♉	
	5793 Aug 06 07:51	0°♊	
	5793 Sep 19 08:58	0°♋	
asc. node	5793 Nov 15 21:26	28°♋47'13	
	5793 Nov 20 10:18	0°♌	
retrograde	5793 Dec 08 07:50	2°♌14'49	
	5793 Dec 25 20:49	30°℞♋	
min. Earth dist.	5794 Jan 05 01:32	26°♋56'19	0.45956 AU
greatest brilliancy	5794 Jan 12 10:29	24°♋21'58	-2.4m
opposition	5794 Jan 13 12:43	23°♋58'58	3°18'46
direct	5794 Feb 15 06:39	17°♋16'30	
	5794 Apr 06 14:10	0°♌	
	5794 Jun 04 09:36	0°♍	
	5794 Jul 26 00:54	0°♎	
	5794 Sep 13 14:45	0°♏	
	5794 Oct 31 15:02	0°♐	
evening set	5794 Nov 12 21:47	7°♐50'59	
desc. node	5794 Nov 17 08:08	10°♐42'11	
max. Earth dist.	5794 Dec 06 17:58	23°♐20'02	2.61500 AU
	5794 Dec 16 20:26	0°♑	
conjunction	5794 Dec 28 15:24	7°♑51'48	-0°22'11
minimum elong	5794 Dec 28 14:40	7°♑50'34	0°22'09
	5795 Jan 30 02:18	0°♒	
morning rise	5795 Feb 13 17:54	10°♒14'21	
	5795 Mar 13 09:53	0°♓	
	5795 Apr 23 01:50	0°♈	
	5795 Jun 01 14:05	0°♉	
	5795 Jul 10 15:51	0°♊	
	5795 Aug 19 08:06	0°♋	
	5795 Sep 30 05:44	0°♌	
asc. node	5795 Oct 03 21:04	2°♌28'34	
	5795 Nov 17 05:40	0°♍	
retrograde	5796 Jan 22 03:41	21°♍52'06	
min. Earth dist.	5796 Feb 24 15:53	14°♍22'02	0.58849 AU
opposition	5796 Mar 01 13:45	12°♍02'32	4°52'39
greatest brilliancy	5796 Feb 29 13:21	12°♍26'35	-1.7m
direct	5796 Apr 07 16:08	3°♍31'53	
	5796 Jun 28 16:15	0°♎	
	5796 Aug 22 18:35	0°♏	
desc. node	5796 Oct 04 07:31	25°♏26'05	
	5796 Oct 11 16:25	0°♐	
	5796 Nov 27 09:49	0°♑	
evening set	5796 Dec 21 08:24	16°♑06'26	
max. Earth dist.	5797 Jan 05 04:26	26°♑20'57	2.50896 AU
	5797 Jan 10 09:44	0°♒	
conjunction	5797 Feb 09 19:13	21°♒44'50	-0°59'18
minimum elong	5797 Feb 09 17:53	21°♒42'24	0°59'17
	5797 Feb 21 01:10	0°♓	
	5797 Apr 01 20:40	0°♈	
morning rise	5797 Apr 07 15:12	4°♈26'11	
	5797 May 10 12:30	0°♉	
	5797 Jun 17 19:38	0°♊	
	5797 Jul 26 15:28	0°♋	
asc. node	5797 Aug 20 19:13	18°♋53'13	
	5797 Sep 04 23:56	0°♌	
	5797 Oct 18 03:13	0°♍	
	5797 Dec 05 17:00	0°♎	
retrograde	5798 Feb 26 06:26	29°♎04'32	
min. Earth dist.	5798 Apr 05 13:17	19°♎59'23	0.66511 AU
opposition	5798 Apr 07 15:23	19°♎09'18	3°57'31
greatest brilliancy	5798 Apr 07 08:34	19°♎16'07	-1.3m
direct	5798 May 17 13:47	9°♎39'57	
	5798 Jul 26 14:08	0°♏	
desc. node	5798 Aug 22 06:26	13°♏29'46	
	5798 Sep 20 14:33	0°♐	
	5798 Nov 08 01:10	0°♑	
	5798 Dec 22 09:45	0°♒	
	5799 Feb 01 20:13	0°♓	
evening set	5799 Feb 08 19:38	5°♓13'13	
max. Earth dist.	5799 Mar 10 00:43	27°♓30'59	2.38013 AU
	5799 Mar 13 05:38	0°♈	
conjunction	5799 Apr 11 23:17	23°♈17'18	-0°53'22
minimum elong	5799 Apr 12 02:16	23°♈23'12	0°53'21
	5799 Apr 20 11:19	0°♉	
	5799 May 28 10:48	0°♊	
morning rise	5799 Jun 22 20:38	19°♊50'18	
	5799 Jul 06 01:26	0°♋	
asc. node	5799 Jul 08 17:16	2°♋01'57	
	5799 Aug 15 03:05	0°♌	
	5799 Sep 26 09:39	0°♍	
	5799 Nov 10 17:50	0°♎	
	5799 Dec 31 02:55	0°♏	
	5800 Mar 12 15:48	0°♐	
retrograde	5800 Apr 01 11:57	2°♐13'41	
	5800 Apr 20 02:56	30°℞♏	
opposition	5800 May 11 12:38	22°♏45'16	2°00'43
greatest brilliancy	5800 May 11 16:01	22°♏41'55	-1.3m
min. Earth dist.	5800 May 13 06:46	22°♏03'39	0.67662 AU
direct	5800 Jun 21 22:17	12°♏46'29	
desc. node	5800 Jul 10 05:04	14°♏39'47	
	5800 Aug 23 03:53	0°♐	
	5800 Oct 17 02:53	0°♑	
	5800 Dec 02 03:08	0°♒	
	5801 Jan 12 23:10	0°♓	
	5801 Feb 21 08:21	0°♈	
	5801 Mar 31 11:58	0°♉	
evening set	5801 Apr 17 21:03	13°♉45'43	
	5801 May 08 11:11	0°♊	
asc. node	5801 May 26 17:38	14°♊16'06	
	5801 Jun 16 04:19	0°♋	
conjunction	5801 Jun 26 01:08	7°♋28'56	0°20'36
minimum elong	5801 Jun 25 23:20	7°♋25'33	0°20'33
	5801 Jul 26 09:44	0°♌	
max. Earth dist.	5801 Aug 13 11:47	13°♌01'50	2.46257 AU
morning rise	5801 Aug 28 01:48	23°♌19'24	
	5801 Sep 06 16:16	0°♍	
	5801 Oct 21 07:50	0°♎	
	5801 Dec 07 16:48	0°♏	
	5802 Jan 28 04:13	0°♐	
	5802 Apr 03 15:35	0°♑	
retrograde	5802 May 08 20:07	6°♑17'48	
desc. node	5802 May 28 04:05	3°♑56'50	
	5802 Jun 09 23:34	30°℞♐	
opposition	5802 Jun 16 06:04	27°♐39'26	-0°43'16
greatest brilliancy	5802 Jun 16 09:19	27°♐36'20	-1.6m
min. Earth dist.	5802 Jun 21 17:37	25°♐33'20	0.62239 AU
direct	5802 Jul 27 12:45	17°♐41'56	
	5802 Sep 14 14:46	0°♑	

	5802 Nov 08 02:46	0°♒	
	5802 Dec 22 00:48	0°♓	
	5803 Jan 31 03:50	0°♈	
	5803 Mar 10 16:56	0°♉	
asc. node	5803 Apr 13 17:03	26°♉37'50	
	5803 Apr 18 00:58	0°♊	
	5803 May 27 04:44	0°♋	
evening set	5803 Jun 26 12:42	22°♋28'24	
	5803 Jul 06 22:12	0°♌	
	5803 Aug 18 15:07	0°♍	
conjunction	5803 Aug 23 00:20	2°♍59'57	1°04'20
minimum elong	5803 Aug 22 23:18	2°♍58'11	1°04'20
max. Earth dist.	5803 Sep 18 22:43	21°♍07'52	2.58559 AU
	5803 Oct 02 09:09	0°♎	
morning rise	5803 Oct 13 04:33	7°♎03'37	
	5803 Nov 17 23:32	0°♏	
	5804 Jan 05 07:55	0°♐	
	5804 Feb 25 03:17	0°♑	
desc. node	5804 Apr 14 02:45	25°♑59'22	
	5804 Apr 22 17:12	0°♒	
retrograde	5804 Jun 24 03:47	17°♒07'09	
opposition	5804 Jul 29 05:30	9°♒55'36	-4°14'30
greatest brilliancy	5804 Jul 30 11:01	9°♒29'32	-2.1m
min. Earth dist.	5804 Aug 06 13:35	6°♒59'23	0.50894 AU
direct	5804 Sep 05 18:55	1°♒05'43	
	5804 Nov 21 09:33	0°♓	
	5805 Jan 04 19:15	0°♈	
	5805 Feb 14 05:28	0°♉	
asc. node	5805 Feb 28 15:16	10°♉54'35	
	5805 Mar 25 20:29	0°♊	
	5805 May 05 03:20	0°♋	
	5805 Jun 15 21:58	0°♌	
	5805 Jul 29 12:31	0°♍	
evening set	5805 Aug 15 20:43	11°♍35'44	
	5805 Sep 12 20:53	0°♎	
conjunction	5805 Oct 03 22:41	13°♎38'19	1°02'14
minimum elong	5805 Oct 03 23:34	13°♎39'43	1°02'14
max. Earth dist.	5805 Oct 13 21:22	20°♎01'26	2.65954 AU
	5805 Oct 29 12:05	0°♏	
morning rise	5805 Nov 18 13:29	12°♏44'36	
	5805 Dec 15 20:43	0°♐	
	5806 Feb 01 14:01	0°♑	
desc. node	5806 Mar 02 00:58	17°♑46'09	
	5806 Mar 21 18:49	0°♒	
	5806 May 10 10:48	0°♓	
	5806 Jul 04 20:11	0°♈	
retrograde	5806 Sep 01 20:08	16°♈45'21	
opposition	5806 Oct 02 02:52	11°♈39'40	-6°10'38
greatest brilliancy	5806 Oct 03 07:18	11°♈19'58	-2.8m
min. Earth dist.	5806 Oct 06 21:36	10°♈20'21	0.38441 AU
direct	5806 Nov 02 16:34	6°♈02'10	
	5807 Jan 09 02:00	0°♉	
asc. node	5807 Jan 16 14:39	4°♉27'32	
	5807 Feb 25 08:04	0°♊	
	5807 Apr 10 14:19	0°♋	
	5807 May 25 00:36	0°♌	
	5807 Jul 09 12:07	0°♍	
	5807 Aug 25 02:14	0°♎	
evening set	5807 Sep 25 04:58	19°♎46'47	
	5807 Oct 11 07:56	0°♏	
max. Earth dist.	5807 Nov 05 13:40	16°♏00'32	2.67882 AU
conjunction	5807 Nov 09 17:00	18°♏38'20	0°34'58
minimum elong	5807 Nov 09 17:56	18°♏39'49	0°34'58
	5807 Nov 27 12:57	0°♐	
morning rise	5807 Dec 23 14:20	16°♐42'56	
	5808 Jan 13 02:44	0°♑	
desc. node	5808 Jan 18 00:10	3°♑11'11	
	5808 Feb 27 17:08	0°♒	
	5808 Apr 12 06:47	0°♓	
	5808 May 25 22:59	0°♈	
	5808 Jul 08 06:29	0°♉	
	5808 Aug 21 22:33	0°♊	
	5808 Oct 16 09:50	0°♋	
retrograde	5808 Nov 16 21:03	6°♋30'19	
asc. node	5808 Dec 03 14:51	4°♋31'37	
min. Earth dist.	5808 Dec 13 06:08	1°♋54'34	0.40865 AU
	5808 Dec 19 08:00	30°℞♊	
opposition	5808 Dec 20 16:19	29°♊34'27	1°08'52
greatest brilliancy	5808 Dec 20 07:23	29°♊41'30	-2.8m
direct	5809 Jan 20 10:29	23°♊48'58	
	5809 Feb 22 05:20	0°♋	
	5809 Apr 25 13:51	0°♌	
	5809 Jun 15 18:32	0°♍	
	5809 Aug 04 03:57	0°♎	
	5809 Sep 21 19:08	0°♏	
evening set	5809 Oct 30 16:03	24°♏24'28	
	5809 Nov 08 10:54	0°♐	
max. Earth dist.	5809 Nov 27 23:06	12°♐31'53	2.64345 AU
desc. node	5809 Dec 04 23:09	17°♐04'29	
conjunction	5809 Dec 14 17:35	23°♐27'10	-0°05'19
minimum elong	5809 Dec 14 17:25	23°♐26'55	0°05'17
behind sun begin	5809 Dec 13 23:21	22°♐57'20	
behind sun end	5809 Dec 15 11:29	23°♐56'30	
	5809 Dec 24 16:21	0°♑	
morning rise	5810 Jan 29 02:27	23°♑46'54	
	5810 Feb 07 04:15	0°♒	
	5810 Mar 21 22:10	0°♓	
	5810 May 02 02:44	0°♈	
	5810 Jun 11 04:19	0°♉	
	5810 Jul 20 20:15	0°♊	
	5810 Aug 30 07:55	0°♋	
	5810 Oct 13 02:07	0°♌	
asc. node	5810 Oct 21 12:54	5°♌16'55	
	5810 Dec 10 13:47	0°♍	
retrograde	5811 Jan 07 06:58	4°♍54'43	
	5811 Feb 02 14:41	30°℞♌	
min. Earth dist.	5811 Feb 07 13:24	28°♌12'46	0.54245 AU
opposition	5811 Feb 14 19:45	25°♌25'50	4°43'59
greatest brilliancy	5811 Feb 13 14:04	25°♌54'23	-1.9m
direct	5811 Mar 22 10:09	17°♌30'01	
	5811 May 12 09:44	0°♍	
	5811 Jul 11 19:32	0°♎	
	5811 Sep 01 22:18	0°♏	
	5811 Oct 20 21:45	0°♐	
desc. node	5811 Oct 22 21:56	1°♐15'50	
	5811 Dec 06 09:00	0°♑	
evening set	5811 Dec 07 05:51	0°♑34'36	
max. Earth dist.	5811 Dec 24 22:58	12°♑27'34	2.55602 AU
	5812 Jan 19 10:26	0°♒	
conjunction	5812 Jan 24 04:34	3°♒20'00	-0°47'05
minimum elong	5812 Jan 24 03:08	3°♒17'31	0°47'02
	5812 Mar 01 07:23	0°♓	
morning rise	5812 Mar 16 00:53	10°♓53'20	
	5812 Apr 10 09:42	0°♈	
	5812 May 19 07:55	0°♉	
	5812 Jun 26 20:16	0°♊	
	5812 Aug 04 20:44	0°♋	
asc. node	5812 Sep 07 12:05	24°♋56'54	
	5812 Sep 14 12:39	0°♌	

	5812 Oct 28 13:25	0°♍	
	5812 Dec 20 02:28	0°♎	
retrograde	5813 Feb 13 18:13	15°♎37'44	
min. Earth dist.	5813 Mar 22 08:07	7°♎05'23	0.64272 AU
opposition	5813 Mar 25 22:28	5°♎39'08	4°28'27
greatest brilliancy	5813 Mar 25 09:01	5°♎52'34	-1.4m
	5813 Apr 10 13:54	30°℞♍	
direct	5813 May 03 22:01	26°♍28'36	
	5813 May 29 12:39	0°♎	
	5813 Aug 08 05:51	0°♏	
desc. node	5813 Sep 08 20:40	17°♏33'30	
	5813 Sep 29 21:25	0°♐	
	5813 Nov 16 11:19	0°♑	
	5813 Dec 30 15:03	0°♒	
evening set	5814 Jan 19 16:55	14°♒18'23	
max. Earth dist.	5814 Feb 04 08:22	25°♒43'42	2.42850 AU
	5814 Feb 10 02:54	0°♓	
conjunction	5814 Mar 17 07:03	26°♓38'01	-1°04'47
minimum elong	5814 Mar 17 07:51	26°♓39'33	1°04'47
	5814 Mar 21 15:46	0°♈	
	5814 Apr 29 00:46	0°♉	
morning rise	5814 May 23 09:33	19°♉13'06	
	5814 Jun 06 02:25	0°♊	
	5814 Jul 14 17:44	0°♋	
asc. node	5814 Jul 26 11:45	8°♋56'11	
	5814 Aug 23 19:45	0°♌	
	5814 Oct 05 05:51	0°♍	
	5814 Nov 20 06:10	0°♎	
	5815 Jan 12 16:32	0°♏	
retrograde	5815 Mar 20 02:58	19°♏41'30	
opposition	5815 Apr 29 10:07	9°♏59'46	2°51'33
greatest brilliancy	5815 Apr 29 11:00	9°♏58'54	-1.3m
min. Earth dist.	5815 Apr 29 16:10	9°♏53'45	0.67994 AU
direct	5815 Jun 09 09:43	0°♏09'24	
desc. node	5815 Jul 27 19:33	11°♏12'59	
	5815 Sep 05 15:17	0°♐	
	5815 Oct 26 20:32	0°♑	
	5815 Dec 10 23:51	0°♒	
	5816 Jan 21 14:22	0°♓	
	5816 Feb 29 22:42	0°♈	
evening set	5816 Mar 20 03:54	15°♈02'30	
	5816 Apr 08 02:21	0°♉	
	5816 May 16 00:59	0°♊	
conjunction	5816 May 28 10:35	9°♊43'13	-0°10'31
minimum elong	5816 May 28 11:41	9°♊45'22	0°10'31
behind sun begin	5816 May 27 12:39	9°♊00'24	
behind sun end	5816 May 29 10:43	10°♊30'18	
asc. node	5816 Jun 12 10:16	21°♊21'28	
	5816 Jun 23 16:15	0°♋	
max. Earth dist.	5816 Jul 19 19:45	19°♋42'33	2.40761 AU
	5816 Aug 02 18:58	0°♌	
morning rise	5816 Aug 05 06:27	1°♌48'26	
	5816 Sep 13 23:39	0°♍	
	5816 Oct 28 17:49	0°♎	
	5816 Dec 15 19:28	0°♏	
	5817 Feb 08 04:03	0°♐	
retrograde	5817 Apr 23 14:20	22°♐48'59	
opposition	5817 Jun 01 19:23	13°♐47'48	0°25'59
greatest brilliancy	5817 Jun 01 21:10	13°♐46'03	-1.4m
min. Earth dist.	5817 Jun 05 20:23	12°♐13'22	0.65128 AU
desc. node	5817 Jun 13 18:15	9°♐16'29	
direct	5817 Jul 13 08:30	3°♐44'53	
	5817 Sep 29 19:32	0°♑	
	5817 Nov 17 23:48	0°♒	
	5817 Dec 30 17:55	0°♓	
	5818 Feb 08 10:49	0°♈	
	5818 Mar 18 18:14	0°♉	
	5818 Apr 25 21:17	0°♊	
asc. node	5818 Apr 30 09:07	3°♊30'27	
evening set	5818 Jun 01 12:01	28°♊14'54	
	5818 Jun 03 19:25	0°♋	
	5818 Jul 14 06:42	0°♌	
conjunction	5818 Aug 02 20:36	14°♌00'58	0°54'07
minimum elong	5818 Aug 02 18:32	13°♌57'18	0°54'05
	5818 Aug 25 18:09	0°♍	
max. Earth dist.	5818 Sep 06 22:06	8°♍19'22	2.54259 AU
morning rise	5818 Sep 26 18:08	21°♍39'16	
	5818 Oct 09 09:17	0°♎	
	5818 Nov 25 03:25	0°♏	
	5819 Jan 13 06:42	0°♐	
	5819 Mar 07 17:14	0°♑	
desc. node	5819 May 01 17:24	24°♑05'03	
	5819 Jun 01 20:37	0°♒	
retrograde	5819 Jun 04 21:32	0°♒03'18	
	5819 Jun 07 21:30	30°℞♑	
opposition	5819 Jul 11 12:10	22°♑11'43	-2°48'07
greatest brilliancy	5819 Jul 12 05:29	21°♑55'43	-1.8m
min. Earth dist.	5819 Jul 18 23:00	19°♑26'46	0.55929 AU
direct	5819 Aug 20 13:34	12°♑42'34	
	5819 Oct 17 07:02	0°♒	
	5819 Dec 05 15:31	0°♓	
	5820 Jan 16 09:25	0°♈	
	5820 Feb 24 17:30	0°♉	
asc. node	5820 Mar 17 08:44	16°♉42'21	
	5820 Apr 03 15:32	0°♊	
	5820 May 13 08:12	0°♋	
	5820 Jun 23 14:04	0°♌	
evening set	5820 Jul 28 16:56	24°♌30'37	
	5820 Aug 05 17:59	0°♍	
conjunction	5820 Sep 18 08:25	29°♍03'36	1°06'56
minimum elong	5820 Sep 18 08:49	29°♍04'14	1°06'57
	5820 Sep 19 18:55	0°♎	
max. Earth dist.	5820 Oct 04 08:58	9°♎29'30	2.63710 AU
morning rise	5820 Nov 04 13:45	29°♎31'02	
	5820 Nov 05 07:57	0°♏	
	5820 Dec 22 22:38	0°♐	
	5821 Feb 09 11:53	0°♑	
desc. node	5821 Mar 18 16:15	22°♑21'34	
	5821 Mar 31 17:32	0°♒	
	5821 May 26 05:19	0°♓	
retrograde	5821 Aug 02 03:07	20°♓17'22	
opposition	5821 Sep 03 06:52	14°♓24'50	-6°10'05
greatest brilliancy	5821 Sep 04 23:58	13°♓53'00	-2.5m
min. Earth dist.	5821 Sep 11 04:01	11°♓59'29	0.42633 AU
direct	5821 Oct 07 22:47	7°♓23'25	
	5821 Dec 11 11:15	0°♈	
	5822 Jan 26 13:11	0°♉	
asc. node	5822 Feb 02 07:00	4°♉43'18	
	5822 Mar 09 17:01	0°♊	
	5822 Apr 20 15:44	0°♋	
	5822 Jun 02 16:03	0°♌	
	5822 Jul 17 05:03	0°♍	
	5822 Sep 01 04:36	0°♎	
evening set	5822 Sep 10 06:45	5°♎50'42	
	5822 Oct 18 02:47	0°♏	
conjunction	5822 Oct 26 17:56	5°♏29'08	0°47'36
minimum elong	5822 Oct 26 19:01	5°♏30'52	0°47'36
max. Earth dist.	5822 Oct 27 23:22	6°♏15'53	2.67791 AU
	5822 Dec 04 07:36	0°♐	

morning rise	5822 Dec 09 22:25	3°♐34'42	
	5823 Jan 20 05:24	0°♑	
desc. node	5823 Feb 03 14:35	9°♑16'01	
	5823 Mar 07 14:04	0°♒	
	5823 Apr 22 11:04	0°♓	
	5823 Jun 07 06:01	0°♈	
	5823 Jul 24 10:01	0°♉	
	5823 Sep 20 05:43	0°♊	
retrograde	5823 Oct 22 01:07	6°♊17'45	
min. Earth dist.	5823 Nov 18 05:30	1°♊50'21	0.37436 AU
opposition	5823 Nov 22 01:10	0°♊47'07	-2°08'24
greatest brilliancy	5823 Nov 21 20:24	0°♊50'25	-3.0m
	5823 Nov 24 21:43	30°℞♉	
direct	5823 Dec 21 12:05	25°♉48'05	
asc. node	5823 Dec 21 06:29	25°♉48'06	
	5824 Jan 16 14:17	0°♊	
	5824 Mar 19 09:40	0°♋	
	5824 May 07 21:14	0°♌	
	5824 Jun 24 20:46	0°♍	
	5824 Aug 11 20:05	0°♎	
	5824 Sep 28 18:59	0°♏	
evening set	5824 Oct 16 15:42	11°♏14'23	
	5824 Nov 15 04:58	0°♐	
max. Earth dist.	5824 Nov 18 16:05	2°♐12'57	2.66380 AU
conjunction	5824 Nov 30 12:54	9°♐50'22	0°11'13
minimum elong	5824 Nov 30 13:15	9°♐50'55	0°11'14
behind sun begin	5824 Nov 29 23:45	9°♐29'11	
behind sun end	5824 Dec 01 02:45	10°♐12'39	
desc. node	5824 Dec 21 13:15	23°♐28'24	
	5824 Dec 31 12:15	0°♑	
morning rise	5825 Jan 13 21:06	8°♑50'10	
	5825 Feb 14 08:36	0°♒	
	5825 Mar 29 16:13	0°♓	
	5825 May 10 14:17	0°♈	
	5825 Jun 20 11:43	0°♉	
	5825 Jul 31 03:35	0°♊	
	5825 Sep 11 06:43	0°♋	
	5825 Oct 30 06:02	0°♌	
asc. node	5825 Nov 07 07:02	3°♌56'19	
retrograde	5825 Dec 20 13:16	15°♌18'34	
min. Earth dist.	5826 Jan 18 10:45	9°♌30'37	0.48949 AU
greatest brilliancy	5826 Jan 25 11:04	6°♌57'38	-2.2m
opposition	5826 Jan 26 17:13	6°♌30'02	4°03'37
	5826 Feb 19 10:34	30°℞♋	
direct	5826 Mar 01 13:32	29°♋18'48	
	5826 Mar 11 23:50	0°♌	
	5826 May 28 13:48	0°♍	
	5826 Jul 21 06:02	0°♎	
	5826 Sep 09 13:55	0°♏	
	5826 Oct 27 21:54	0°♐	
desc. node	5826 Nov 08 11:59	7°♐22'51	
evening set	5826 Nov 22 05:11	16°♐13'16	
	5826 Dec 13 05:27	0°♑	
max. Earth dist.	5826 Dec 13 17:33	0°♑20'04	2.59600 AU
conjunction	5827 Jan 07 13:10	17°♑00'52	-0°31'46
minimum elong	5827 Jan 07 12:07	16°♑59'06	0°31'44
	5827 Jan 26 09:57	0°♒	
morning rise	5827 Feb 24 23:57	20°♒54'32	
	5827 Mar 09 13:50	0°♓	
	5827 Apr 19 00:51	0°♈	
	5827 May 28 07:42	0°♉	
	5827 Jul 06 03:58	0°♊	
	5827 Aug 14 12:52	0°♋	
	5827 Sep 24 19:26	0°♌	
asc. node	5827 Sep 25 05:32	0°♌17'40	
	5827 Nov 09 15:55	0°♍	
	5828 Jan 18 04:04	0°♎	
retrograde	5828 Jan 31 15:09	1°♎10'38	
	5828 Feb 13 12:07	30°℞♍	
min. Earth dist.	5828 Mar 06 07:00	23°♍16'39	0.61027 AU
opposition	5828 Mar 11 09:15	21°♍15'23	4°48'19
greatest brilliancy	5828 Mar 10 12:37	21°♍35'53	-1.6m
direct	5828 Apr 18 04:42	12°♍29'01	
	5828 Jun 20 17:57	0°♎	
	5828 Aug 17 21:29	0°♏	
desc. node	5828 Sep 25 10:36	22°♏33'19	
	5828 Oct 07 15:14	0°♐	
	5828 Nov 23 15:44	0°♑	
evening set	5829 Jan 01 02:18	26°♑03'45	
	5829 Jan 06 17:28	0°♒	
max. Earth dist.	5829 Jan 15 02:50	5°♒55'13	2.48105 AU
	5829 Feb 17 08:03	0°♓	
conjunction	5829 Feb 22 08:59	3°♓44'15	-1°03'49
minimum elong	5829 Feb 22 08:05	3°♓42'35	1°03'48
	5829 Mar 29 01:22	0°♈	
morning rise	5829 Apr 23 15:58	19°♈51'53	
	5829 May 06 14:31	0°♉	
	5829 Jun 13 19:14	0°♊	
greatest brilliancy	5829 Jun 21 15:43	6°♊08'26	1.2m
	5829 Jul 22 12:36	0°♋	
asc. node	5829 Aug 12 03:19	15°♋34'11	
	5829 Aug 31 17:09	0°♌	
	5829 Oct 13 11:18	0°♍	
	5829 Nov 29 17:20	0°♎	
	5830 Jan 29 19:31	0°♏	
retrograde	5830 Mar 06 21:49	7°♏00'27	
	5830 Apr 09 01:21	30°℞♎	
min. Earth dist.	5830 Apr 15 01:02	27°♎38'57	0.67316 AU
opposition	5830 Apr 16 07:04	27°♎08'57	3°35'28
greatest brilliancy	5830 Apr 16 03:27	27°♎12'34	-1.3m
direct	5830 May 26 15:32	17°♎31'09	
	5830 Jul 17 19:36	0°♏	
desc. node	5830 Aug 13 09:35	12°♏09'09	
	5830 Sep 15 15:04	0°♐	
	5830 Nov 03 21:39	0°♑	
	5830 Dec 18 12:49	0°♒	
	5831 Jan 29 01:13	0°♓	
evening set	5831 Feb 23 01:59	18°♓55'13	
	5831 Mar 09 10:41	0°♈	
	5831 Apr 16 15:40	0°♉	
conjunction	5831 Apr 29 08:14	10°♉02'35	-0°40'41
minimum elong	5831 Apr 29 11:35	10°♉09'13	0°40'40
max. Earth dist.	5831 May 06 21:35	16°♉01'25	2.36761 AU
	5831 May 24 14:33	0°♊	
asc. node	5831 Jun 30 03:10	28°♊25'08	
	5831 Jul 02 04:41	0°♋	
morning rise	5831 Jul 10 13:10	6°♋22'15	
	5831 Aug 11 05:26	0°♌	
	5831 Sep 22 09:43	0°♍	
	5831 Nov 06 09:59	0°♎	
	5831 Dec 25 15:31	0°♏	
	5832 Feb 24 05:37	0°♐	
retrograde	5832 Apr 09 09:01	9°♐56'47	
opposition	5832 May 19 03:40	0°♐37'03	1°27'49
greatest brilliancy	5832 May 19 07:18	0°♐33'27	-1.3m
	5832 May 20 17:17	30°℞♏	
min. Earth dist.	5832 May 21 17:27	29°♏36'14	0.67027 AU
direct	5832 Jun 29 15:48	20°♏35'22	
desc. node	5832 Jun 30 09:05	20°♏35'33	
	5832 Aug 12 04:19	0°♐	

	5832 Oct 10 20:29	0°♉	
	5832 Nov 26 18:00	0°♒	
	5833 Jan 07 21:01	0°♓	
	5833 Feb 16 08:48	0°♈	
	5833 Mar 26 13:33	0°♉	
greatest brilliancy	5833 Apr 23 14:05	22°♉08'47	1.2m
	5833 May 03 13:49	0°♊	
evening set	5833 May 04 10:53	0°♊41'18	
asc. node	5833 May 17 01:51	10°♊32'57	
	5833 Jun 11 08:11	0°♋	
conjunction	5833 Jul 10 16:29	21°♋59'41	0°35'20
minimum elong	5833 Jul 10 14:04	21°♋55'13	0°35'18
	5833 Jul 21 14:44	0°♌	
max. Earth dist.	5833 Aug 23 12:42	23°♌28'46	2.49257 AU
	5833 Sep 01 21:54	0°♍	
morning rise	5833 Sep 08 11:46	4°♍31'41	
	5833 Oct 16 11:42	0°♎	
	5833 Dec 02 13:00	0°♏	
	5834 Jan 21 21:41	0°♐	
	5834 Mar 21 12:02	0°♑	
retrograde	5834 May 18 02:54	14°♑50'26	
desc. node	5834 May 18 08:01	14°♑50'26	
opposition	5834 Jun 24 23:07	6°♑26'47	-1°26'53
greatest brilliancy	5834 Jun 25 06:32	6°♑19'45	-1.6m
min. Earth dist.	5834 Jul 01 04:29	4°♑05'02	0.60240 AU
	5834 Jul 13 04:45	30°℞♐	
direct	5834 Aug 04 22:09	26°♐35'43	
	5834 Aug 28 22:00	0°♑	
	5834 Oct 31 23:00	0°♒	
	5834 Dec 16 02:45	0°♓	
	5835 Jan 25 16:10	0°♈	
	5835 Mar 05 10:12	0°♉	
asc. node	5835 Apr 04 00:07	23°♉05'21	
	5835 Apr 12 21:50	0°♊	
	5835 May 22 04:55	0°♋	
	5835 Jul 02 01:29	0°♌	
evening set	5835 Jul 09 08:46	5°♌13'06	
	5835 Aug 13 21:17	0°♍	
conjunction	5835 Sep 02 11:07	13°♍15'52	1°06'58
minimum elong	5835 Sep 02 10:41	13°♍15'08	1°06'59
max. Earth dist.	5835 Sep 25 04:52	28°♍21'51	2.60639 AU
	5835 Sep 27 16:38	0°♎	
morning rise	5835 Oct 21 23:19	15°♎46'37	
	5835 Nov 13 05:27	0°♏	
	5835 Dec 31 05:34	0°♐	
	5836 Feb 19 00:20	0°♑	
desc. node	5836 Apr 04 06:25	25°♑30'24	
	5836 Apr 12 19:42	0°♒	
retrograde	5836 Jul 06 23:05	28°♒22'05	
opposition	5836 Aug 10 02:24	21°♒36'08	-5°02'33
greatest brilliancy	5836 Aug 11 14:15	21°♒05'32	-2.2m
min. Earth dist.	5836 Aug 18 15:23	18°♒42'21	0.47951 AU
direct	5836 Sep 16 11:51	13°♒17'40	
	5836 Nov 10 03:22	0°♓	
	5836 Dec 28 05:36	0°♈	
	5837 Feb 07 18:41	0°♉	
asc. node	5837 Feb 19 00:16	8°♉21'24	
	5837 Mar 19 23:53	0°♊	
	5837 Apr 29 16:48	0°♋	
	5837 Jun 10 19:04	0°♌	
	5837 Jul 24 15:42	0°♍	
evening set	5837 Aug 25 11:46	21°♍04'54	
	5837 Sep 08 04:06	0°♎	
conjunction	5837 Oct 12 11:03	22°♎04'32	0°57'43
minimum elong	5837 Oct 12 12:05	22°♎06'11	0°57'44
max. Earth dist.	5837 Oct 19 04:53	26°♎22'57	2.66851 AU
	5837 Oct 24 21:02	0°♏	
morning rise	5837 Nov 26 09:50	20°♏39'53	
	5837 Dec 11 03:33	0°♐	
	5838 Jan 27 12:30	0°♑	
desc. node	5838 Feb 20 04:53	14°♑59'51	
	5838 Mar 15 22:21	0°♒	
	5838 May 02 19:55	0°♓	
	5838 Jun 21 20:29	0°♈	
	5838 Aug 24 17:19	0°♉	
retrograde	5838 Sep 20 04:30	4°♉11'30	
	5838 Oct 17 08:58	30°℞♈	
opposition	5838 Oct 20 03:49	29°♈15'41	-5°15'42
greatest brilliancy	5838 Oct 20 16:56	29°♈06'57	-3.0m
min. Earth dist.	5838 Oct 22 00:09	28°♈46'12	0.37160 AU
direct	5838 Nov 19 05:46	24°♈10'45	
	5838 Dec 19 18:14	0°♉	
asc. node	5839 Jan 07 00:09	7°♉43'14	
	5839 Feb 15 17:51	0°♊	
	5839 Apr 03 11:53	0°♋	
	5839 May 19 02:21	0°♌	
	5839 Jul 04 05:57	0°♍	
	5839 Aug 20 05:24	0°♎	
evening set	5839 Oct 03 11:43	27°♎59'09	
	5839 Oct 06 16:12	0°♏	
max. Earth dist.	5839 Nov 10 17:18	22°♏12'34	2.67582 AU
conjunction	5839 Nov 17 15:36	26°♏37'21	0°26'37
minimum elong	5839 Nov 17 16:21	26°♏38'33	0°26'38
	5839 Nov 22 22:36	0°♐	
morning rise	5839 Dec 31 13:18	24°♐52'48	
desc. node	5840 Jan 08 03:25	29°♐49'34	
	5840 Jan 08 09:49	0°♑	
	5840 Feb 22 17:20	0°♒	
	5840 Apr 06 18:49	0°♓	
	5840 May 19 17:04	0°♈	
	5840 Jun 30 21:26	0°♉	
	5840 Aug 12 10:52	0°♊	
	5840 Sep 27 23:36	0°♋	
asc. node	5840 Nov 23 22:54	21°♋47'33	
retrograde	5840 Nov 30 01:54	22°♋03'56	
min. Earth dist.	5840 Dec 26 23:43	17°♋07'28	0.43571 AU
greatest brilliancy	5841 Jan 03 10:14	14°♋38'19	-2.6m
opposition	5841 Jan 04 06:42	14°♋21'07	2°32'19
direct	5841 Feb 05 03:01	8°♋03'51	
	5841 Apr 15 16:01	0°♌	
	5841 Jun 09 06:00	0°♍	
	5841 Jul 29 18:50	0°♎	
	5841 Sep 16 22:16	0°♏	
	5841 Nov 03 19:15	0°♐	
evening set	5841 Nov 07 18:47	2°♐32'16	
desc. node	5841 Nov 25 02:17	13°♐40'00	
max. Earth dist.	5841 Dec 03 14:42	19°♐11'56	2.62877 AU
	5841 Dec 20 01:25	0°♑	
conjunction	5841 Dec 23 03:38	2°♑02'53	-0°15'08
minimum elong	5841 Dec 23 03:08	2°♑02'03	0°15'07
behind sun begin	5841 Dec 22 20:28	1°♑51'01	
behind sun end	5841 Dec 23 09:47	2°♑13'05	
	5842 Feb 02 11:00	0°♒	
morning rise	5842 Feb 07 08:51	3°♒23'59	
	5842 Mar 16 23:58	0°♓	
	5842 Apr 26 22:10	0°♈	
	5842 Jun 05 16:18	0°♉	
	5842 Jul 14 23:39	0°♊	
	5842 Aug 23 22:17	0°♋	

	5842 Oct 05 08:47	0°♌	
asc. node	5842 Oct 11 22:11	4°♌20'36	
	5842 Nov 24 16:43	0°♍	
retrograde	5843 Jan 16 12:49	15°♍18'00	
min. Earth dist.	5843 Feb 18 01:37	8°♍08'22	0.56880 AU
greatest brilliancy	5843 Feb 23 11:05	6°♍02'15	-1.8m
opposition	5843 Feb 24 14:17	5°♍35'39	4°52'24
	5843 Mar 12 24:00	30°℞♌	
direct	5843 Apr 02 00:39	27°♌19'39	
	5843 Apr 23 17:18	0°♍	
	5843 Jul 04 19:10	0°♎	
	5843 Aug 27 11:59	0°♏	
desc. node	5843 Oct 13 01:22	28°♏08'52	
	5843 Oct 16 00:40	0°♐	
	5843 Dec 01 16:23	0°♑	
evening set	5843 Dec 16 06:42	9°♑44'56	
max. Earth dist.	5844 Jan 01 07:41	20°♑40'29	2.53067 AU
	5844 Jan 14 18:14	0°♒	
conjunction	5844 Feb 03 11:54	13°♒58'56	-0°54'41
minimum elong	5844 Feb 03 10:28	13°♒56'20	0°54'39
	5844 Feb 25 13:07	0°♓	
morning rise	5844 Mar 28 21:23	24°♓11'22	
	5844 Apr 05 12:28	0°♈	
	5844 May 14 07:27	0°♉	
	5844 Jun 21 16:45	0°♊	
	5844 Jul 30 13:55	0°♋	
asc. node	5844 Aug 28 21:04	21°♋54'41	
	5844 Sep 08 23:47	0°♌	
	5844 Oct 22 08:41	0°♍	
	5844 Dec 11 00:30	0°♎	
retrograde	5845 Feb 21 13:25	23°♎53'47	
min. Earth dist.	5845 Mar 31 02:07	15°♎02'50	0.65628 AU
opposition	5845 Apr 02 20:35	13°♎56'19	4°11'42
greatest brilliancy	5845 Apr 02 10:54	14°♎06'00	-1.4m
direct	5845 May 12 09:13	4°♎34'58	
	5845 Jul 31 22:48	0°♏	
desc. node	5845 Aug 30 00:31	15°♏22'42	
	5845 Sep 24 10:13	0°♐	
	5845 Nov 11 12:57	0°♑	
	5845 Dec 25 20:51	0°♒	
evening set	5846 Jan 31 07:00	26°♒14'02	
	5846 Feb 05 09:00	0°♓	
max. Earth dist.	5846 Feb 20 13:35	11°♓23'37	2.40007 AU
	5846 Mar 16 20:44	0°♈	
conjunction	5846 Mar 31 21:04	11°♈41'16	-1°00'02
minimum elong	5846 Mar 31 23:11	11°♈45'25	1°00'02
	5846 Apr 24 04:03	0°♉	
	5846 Jun 01 04:14	0°♊	
morning rise	5846 Jun 10 04:52	7°♊04'55	
	5846 Jul 09 18:29	0°♋	
asc. node	5846 Jul 16 18:49	5°♋21'16	
	5846 Aug 18 18:58	0°♌	
	5846 Sep 30 01:13	0°♍	
	5846 Nov 14 13:04	0°♎	
	5847 Jan 04 19:27	0°♏	
retrograde	5847 Mar 27 18:33	27°♏21'54	
opposition	5847 May 06 22:14	17°♏47'06	2°22'36
greatest brilliancy	5847 May 07 00:45	17°♏44'36	-1.3m
min. Earth dist.	5847 May 08 00:02	17°♏21'30	0.67942 AU
direct	5847 Jun 17 03:39	7°♏51'38	
desc. node	5847 Jul 17 23:27	12°♏50'04	
	5847 Aug 28 23:36	0°♐	
	5847 Oct 21 05:09	0°♑	
	5847 Dec 05 21:44	0°♒	
	5848 Jan 16 16:33	0°♓	
	5848 Feb 25 02:12	0°♈	
	5848 Apr 03 05:56	0°♉	
evening set	5848 Apr 05 01:42	1°♉26'40	
	5848 May 11 04:27	0°♊	
asc. node	5848 Jun 02 18:47	17°♊39'07	
conjunction	5848 Jun 13 22:03	26°♊14'28	0°07'47
minimum elong	5848 Jun 13 21:18	26°♊13'01	0°07'44
behind sun begin	5848 Jun 12 19:22	25°♊23'15	
behind sun end	5848 Jun 14 23:13	27°♊02'43	
	5848 Jun 18 19:52	0°♋	
	5848 Jul 28 22:43	0°♌	
max. Earth dist.	5848 Aug 04 07:44	4°♌38'21	2.43777 AU
morning rise	5848 Aug 18 15:22	14°♌55'19	
	5848 Sep 09 02:52	0°♍	
	5848 Oct 23 17:39	0°♎	
	5848 Dec 10 07:10	0°♏	
	5849 Jan 31 16:00	0°♐	
	5849 Apr 19 12:34	0°♑	
retrograde	5849 May 02 04:15	0°♑54'56	
	5849 May 14 06:12	30°℞♐	
desc. node	5849 Jun 03 22:12	24°♐22'21	
opposition	5849 Jun 09 22:51	22°♐05'46	-0°13'25
greatest brilliancy	5849 Jun 09 23:47	22°♐04'51	-1.5m
min. Earth dist.	5849 Jun 14 18:45	20°♐13'43	0.63657 AU
direct	5849 Jul 21 08:45	12°♐04'53	
	5849 Sep 21 00:56	0°♑	
	5849 Nov 11 20:31	0°♒	
	5849 Dec 25 06:36	0°♓	
	5850 Feb 03 05:51	0°♈	
	5850 Mar 13 16:27	0°♉	
asc. node	5850 Apr 20 18:27	29°♉53'34	
	5850 Apr 20 21:45	0°♊	
	5850 May 29 22:05	0°♋	
evening set	5850 Jun 16 00:34	12°♋49'05	
	5850 Jul 09 11:21	0°♌	
conjunction	5850 Aug 14 14:48	25°♌34'58	1°00'56
minimum elong	5850 Aug 14 13:18	25°♌32'22	1°00'54
	5850 Aug 21 00:20	0°♍	
max. Earth dist.	5850 Sep 14 03:20	16°♍23'13	2.56715 AU
	5850 Oct 04 15:30	0°♎	
morning rise	5850 Oct 06 07:34	1°♎05'47	
	5850 Nov 20 06:06	0°♏	
	5851 Jan 07 20:36	0°♐	
	5851 Feb 28 13:17	0°♑	
desc. node	5851 Apr 21 20:50	26°♑05'52	
	5851 May 01 13:12	0°♒	
retrograde	5851 Jun 15 23:52	9°♒56'20	
opposition	5851 Jul 21 19:10	2°♒25'36	-3°37'18
greatest brilliancy	5851 Jul 22 19:15	2°♒03'49	-1.9m
	5851 Jul 28 12:05	30°℞♑	
min. Earth dist.	5851 Jul 29 18:58	29°♑32'37	0.53224 AU
direct	5851 Aug 30 02:00	23°♑15'34	
	5851 Oct 02 15:36	0°♒	
	5851 Nov 27 23:49	0°♓	
	5852 Jan 10 00:42	0°♈	
	5852 Feb 18 21:54	0°♉	
asc. node	5852 Mar 07 16:47	13°♉36'26	
	5852 Mar 29 03:59	0°♊	
	5852 May 08 03:11	0°♋	
	5852 Jun 18 14:33	0°♌	
	5852 Jul 31 22:56	0°♍	
evening set	5852 Aug 08 06:13	4°♍55'46	
	5852 Sep 15 02:40	0°♎	
conjunction	5852 Sep 27 09:25	7°♎59'12	1°04'41

minimum elong	5852 Sep 27 10:07	8°♎00'20	1°04'42
max. Earth dist.	5852 Oct 09 22:16	16°♎04'52	2.65051 AU
	5852 Oct 31 16:04	0°♏	
morning rise	5852 Nov 12 15:31	7°♏37'01	
	5852 Dec 18 02:33	0°♐	
	5853 Feb 04 03:31	0°♑	
desc. node	5853 Mar 08 19:01	20°♑06'02	
	5853 Mar 25 02:42	0°♒	
	5853 May 15 15:53	0°♓	
	5853 Jul 19 19:23	0°♈	
retrograde	5853 Aug 18 21:50	5°♈00'42	
	5853 Sep 17 12:59	30°℞♓	
opposition	5853 Sep 18 21:21	29°♓36'39	-6°22'41
greatest brilliancy	5853 Sep 20 10:26	29°♓09'41	-2.7m
min. Earth dist.	5853 Sep 25 10:08	27°♓43'09	0.40090 AU
direct	5853 Oct 21 20:36	23°♓22'56	
	5853 Nov 22 23:26	0°♈	
	5854 Jan 17 04:09	0°♉	
asc. node	5854 Jan 23 16:00	4°♉14'11	
	5854 Mar 02 11:17	0°♊	
	5854 Apr 14 11:31	0°♋	
	5854 May 28 03:49	0°♌	
	5854 Jul 12 03:29	0°♍	
	5854 Aug 27 09:54	0°♎	
evening set	5854 Sep 18 21:37	14°♎22'07	
	5854 Oct 13 11:46	0°♏	
max. Earth dist.	5854 Nov 02 01:16	12°♏25'10	2.67943 AU
conjunction	5854 Nov 03 18:40	13°♏30'52	0°40'28
minimum elong	5854 Nov 03 19:41	13°♏32'29	0°40'29
	5854 Nov 29 16:31	0°♐	
morning rise	5854 Dec 17 17:46	11°♐32'22	
	5855 Jan 15 09:53	0°♑	
desc. node	5855 Jan 24 18:05	6°♑03'24	
	5855 Mar 02 08:19	0°♒	
	5855 Apr 16 10:50	0°♓	
	5855 May 30 22:41	0°♈	
	5855 Jul 14 13:00	0°♉	
	5855 Aug 31 02:34	0°♊	
retrograde	5855 Nov 06 17:12	24°♊11'19	
min. Earth dist.	5855 Dec 03 02:23	19°♊45'36	0.39027 AU
opposition	5855 Dec 09 06:20	17°♊55'49	-0°10'18
greatest brilliancy	5855 Dec 09 05:34	17°♊56'23	-2.9m
asc. node	5855 Dec 11 16:20	17°♊13'05	
direct	5856 Jan 08 07:14	12°♊34'24	
	5856 Mar 07 06:20	0°♋	
	5856 Apr 30 12:23	0°♌	
	5856 Jun 19 01:00	0°♍	
	5856 Aug 06 17:37	0°♎	
	5856 Sep 24 01:16	0°♏	
evening set	5856 Oct 24 16:03	19°♏14'06	
	5856 Nov 10 14:44	0°♐	
max. Earth dist.	5856 Nov 23 23:26	8°♐33'51	2.65356 AU
conjunction	5856 Dec 08 14:26	18°♐01'24	0°01'42
minimum elong	5856 Dec 08 14:29	18°♐01'29	0°01'44
behind sun begin	5856 Dec 07 19:51	17°♐31'13	
behind sun end	5856 Dec 09 09:08	18°♐31'46	
desc. node	5856 Dec 11 17:10	20°♐02'58	
	5856 Dec 26 21:34	0°♑	
morning rise	5857 Jan 22 10:20	17°♑40'38	
	5857 Feb 09 13:56	0°♒	
	5857 Mar 24 14:17	0°♓	
	5857 May 05 02:45	0°♈	
	5857 Jun 14 12:35	0°♉	
	5857 Jul 24 13:24	0°♊	
	5857 Sep 03 13:55	0°♋	
	5857 Oct 18 17:16	0°♌	
asc. node	5857 Oct 28 14:23	5°♌46'22	
retrograde	5857 Dec 30 22:16	27°♌16'13	
min. Earth dist.	5858 Jan 30 03:41	20°♌57'17	0.51945 AU
opposition	5858 Feb 06 21:42	18°♌02'21	4°32'03
greatest brilliancy	5858 Feb 05 14:51	18°♌31'31	-2.0m
direct	5858 Mar 13 17:41	10°♌25'08	
	5858 May 19 07:09	0°♍	
	5858 Jul 15 03:59	0°♎	
	5858 Sep 04 11:04	0°♏	
	5858 Oct 23 04:14	0°♐	
desc. node	5858 Oct 29 15:47	4°♐05'59	
evening set	5858 Nov 30 16:11	24°♐45'42	
	5858 Dec 08 14:49	0°♑	
max. Earth dist.	5858 Dec 20 02:17	7°♑39'00	2.57487 AU
conjunction	5859 Jan 16 19:24	26°♑32'34	-0°40'53
minimum elong	5859 Jan 16 18:06	26°♑30'20	0°40'51
	5859 Jan 21 18:51	0°♒	
	5859 Mar 04 19:46	0°♓	
morning rise	5859 Mar 07 23:14	2°♓17'59	
	5859 Apr 14 02:37	0°♈	
	5859 May 23 04:49	0°♉	
	5859 Jun 30 20:09	0°♊	
	5859 Aug 08 23:11	0°♋	
asc. node	5859 Sep 15 13:09	27°♋41'24	
	5859 Sep 18 18:53	0°♌	
	5859 Nov 02 07:51	0°♍	
	5859 Dec 27 23:28	0°♎	
retrograde	5860 Feb 08 19:59	10°♎04'21	
min. Earth dist.	5860 Mar 15 13:39	1°♎48'31	0.62950 AU
opposition	5860 Mar 19 20:23	0°♎06'02	4°38'31
greatest brilliancy	5860 Mar 19 03:43	0°♎22'41	-1.5m
	5860 Mar 20 02:26	30°℞♍	
direct	5860 Apr 27 07:55	21°♍05'40	
	5860 Jun 09 02:04	0°♎	
	5860 Aug 11 15:42	0°♏	
desc. node	5860 Sep 15 14:23	19°♏52'44	
	5860 Oct 02 11:20	0°♐	
	5860 Nov 18 20:35	0°♑	
	5861 Jan 02 00:56	0°♒	
evening set	5861 Jan 11 08:59	6°♒35'24	
max. Earth dist.	5861 Jan 25 16:26	16°♒51'15	2.45219 AU
	5861 Feb 12 15:07	0°♓	
conjunction	5861 Mar 06 20:44	16°♓40'27	-1°05'39
minimum elong	5861 Mar 06 20:39	16°♓40'17	1°05'39
	5861 Mar 24 06:50	0°♈	
	5861 May 01 18:04	0°♉	
morning rise	5861 May 09 22:50	6°♉27'14	
	5861 Jun 08 20:49	0°♊	
	5861 Jul 17 12:16	0°♋	
asc. node	5861 Aug 02 12:58	12°♋10'10	
	5861 Aug 26 13:54	0°♌	
	5861 Oct 08 00:57	0°♍	
	5861 Nov 23 09:07	0°♎	
	5862 Jan 17 18:28	0°♏	
retrograde	5862 Mar 14 12:17	14°♏48'40	
opposition	5862 Apr 23 20:33	5°♏02'01	3°10'37
min. Earth dist.	5862 Apr 23 10:06	5°♏12'26	0.67818 AU
greatest brilliancy	5862 Apr 23 19:36	5°♏02'57	-1.3m
	5862 May 07 05:59	30°℞♎	
direct	5862 Jun 03 13:52	25°♎16'51	
	5862 Jul 03 16:15	0°♏	
desc. node	5862 Aug 03 13:27	11°♏34'48	
	5862 Sep 09 05:27	0°♐	
	5862 Oct 29 14:58	0°♑	

	5862 Dec 13 14:34	0°♒	
	5863 Jan 24 05:19	0°♓	
	5863 Mar 04 15:00	0°♈	
evening set	5863 Mar 09 08:57	3°♈41'36	
	5863 Apr 11 19:33	0°♉	
conjunction	5863 May 16 06:28	27°♉15'32	-0°24'19
minimum elong	5863 May 16 08:55	27°♉20'21	0°24'19
	5863 May 19 17:59	0°♊	
asc. node	5863 Jun 20 11:35	24°♊44'20	
	5863 Jun 27 08:01	0°♋	
max. Earth dist.	5863 Jul 02 21:28	4°♋14'42	2.38497 AU
morning rise	5863 Jul 26 03:03	21°♋43'08	
	5863 Aug 06 08:39	0°♌	
	5863 Sep 17 11:23	0°♍	
	5863 Nov 01 05:57	0°♎	
	5863 Dec 19 15:27	0°♏	
	5864 Feb 13 17:48	0°♐	
retrograde	5864 Apr 17 10:33	17°♐45'43	
opposition	5864 May 26 21:48	8°♐35'42	0°52'29
greatest brilliancy	5864 May 27 00:43	8°♐32'50	-1.4m
min. Earth dist.	5864 May 30 06:43	7°♐16'26	0.66105 AU
desc. node	5864 Jun 20 12:20	0°♐24'07	
	5864 Jun 22 11:00	30°℞♏	
direct	5864 Jul 07 10:54	28°♏32'38	
	5864 Jul 23 06:50	0°♐	
	5864 Oct 04 00:15	0°♑	
	5864 Nov 21 04:23	0°♒	
	5865 Jan 02 16:48	0°♓	
	5865 Feb 11 08:10	0°♈	
	5865 Mar 21 14:30	0°♉	
	5865 Apr 28 15:45	0°♊	
asc. node	5865 May 07 10:08	6°♊51'04	
evening set	5865 May 20 13:18	17°♊02'19	
	5865 Jun 06 11:17	0°♋	
	5865 Jul 16 19:13	0°♌	
conjunction	5865 Jul 24 04:59	5°♌21'40	0°47'13
minimum elong	5865 Jul 24 02:36	5°♌17'21	0°47'11
	5865 Aug 28 03:14	0°♍	
max. Earth dist.	5865 Sep 01 06:26	2°♍50'53	2.52101 AU
morning rise	5865 Sep 19 03:31	15°♍00'50	
	5865 Oct 11 16:15	0°♎	
	5865 Nov 27 11:39	0°♏	
	5866 Jan 16 00:17	0°♐	
	5866 Mar 12 00:38	0°♑	
desc. node	5866 May 08 11:06	21°♑43'14	
retrograde	5866 May 27 23:47	23°♑49'30	
opposition	5866 Jul 04 04:15	15°♑42'34	-2°12'58
greatest brilliancy	5866 Jul 04 16:54	15°♑30'42	-1.7m
min. Earth dist.	5866 Jul 11 01:52	13°♑07'29	0.57967 AU
direct	5866 Aug 13 16:04	6°♑01'54	
	5866 Oct 23 13:02	0°♒	
	5866 Dec 09 18:05	0°♓	
	5867 Jan 19 22:50	0°♈	
	5867 Feb 28 00:23	0°♉	
asc. node	5867 Mar 25 09:49	19°♉43'10	
	5867 Apr 07 16:53	0°♊	
	5867 May 17 04:03	0°♋	
	5867 Jun 27 04:19	0°♌	
evening set	5867 Jul 21 04:58	16°♌57'19	
	5867 Aug 09 03:02	0°♍	
conjunction	5867 Sep 12 06:36	22°♍55'58	1°07'35
minimum elong	5867 Sep 12 06:40	22°♍56'05	1°07'35
	5867 Sep 23 00:12	0°♎	
max. Earth dist.	5867 Oct 01 04:25	5°♎20'39	2.62436 AU
morning rise	5867 Oct 30 10:08	24°♎12'35	
	5867 Nov 08 12:06	0°♏	
	5867 Dec 26 05:47	0°♐	
	5868 Feb 13 05:56	0°♑	
desc. node	5868 Mar 25 10:12	24°♑12'05	
	5868 Apr 04 16:58	0°♒	
	5868 Jun 04 08:45	0°♓	
retrograde	5868 Jul 21 03:05	10°♓44'29	
opposition	5868 Aug 23 05:16	4°♓27'35	-5°45'07
greatest brilliancy	5868 Aug 24 21:40	3°♓54'47	-2.4m
min. Earth dist.	5868 Aug 31 15:21	1°♓44'48	0.44949 AU
	5868 Sep 06 13:33	30°℞♒	
direct	5868 Sep 28 05:10	26°♒49'13	
	5868 Oct 20 02:40	0°♓	
	5868 Dec 19 02:34	0°♈	
	5869 Jan 31 14:53	0°♉	
asc. node	5869 Feb 09 08:34	6°♉19'02	
	5869 Mar 13 17:59	0°♊	
	5869 Apr 24 00:55	0°♋	
	5869 Jun 05 13:33	0°♌	
	5869 Jul 19 17:35	0°♍	
evening set	5869 Sep 03 15:16	0°♎06'53	
	5869 Sep 03 11:01	0°♎	
conjunction	5869 Oct 20 16:43	0°♏16'45	0°52'08
minimum elong	5869 Oct 20 17:49	0°♏18'29	0°52'09
	5869 Oct 20 06:11	0°♏	
max. Earth dist.	5869 Oct 24 09:38	2°♏38'14	2.67477 AU
morning rise	5869 Dec 04 03:41	28°♏31'33	
	5869 Dec 06 11:23	0°♐	
	5870 Jan 22 14:01	0°♑	
desc. node	5870 Feb 10 08:44	12°♑00'59	
	5870 Mar 10 09:05	0°♒	
	5870 Apr 26 00:48	0°♓	
	5870 Jun 12 06:33	0°♈	
	5870 Aug 01 23:01	0°♉	
retrograde	5870 Oct 08 14:43	22°♉37'32	
min. Earth dist.	5870 Nov 06 09:51	17°♉53'35	0.36860 AU
opposition	5870 Nov 07 18:42	17°♉31'45	-3°39'08
greatest brilliancy	5870 Nov 07 18:36	17°♉31'49	-3.0m
direct	5870 Dec 07 02:59	12°♉39'15	
asc. node	5870 Dec 28 07:46	15°♉30'26	
	5871 Feb 02 10:15	0°♊	
	5871 Mar 26 08:26	0°♋	
	5871 May 12 18:00	0°♌	
	5871 Jun 28 19:05	0°♍	
	5871 Aug 15 06:39	0°♎	
	5871 Oct 01 23:50	0°♏	
evening set	5871 Oct 11 14:59	6°♏04'13	
max. Earth dist.	5871 Nov 15 20:44	28°♏24'54	2.67027 AU
	5871 Nov 18 08:19	0°♐	
conjunction	5871 Nov 25 13:44	4°♐37'22	0°17'47
minimum elong	5871 Nov 25 14:16	4°♐38'13	0°17'48
desc. node	5871 Dec 29 07:26	26°♐26'34	
	5872 Jan 03 17:55	0°♑	
morning rise	5872 Jan 08 15:25	3°♑12'53	
	5872 Feb 17 19:45	0°♒	
	5872 Apr 01 11:38	0°♓	
	5872 May 13 20:11	0°♈	
	5872 Jun 24 05:58	0°♉	
	5872 Aug 04 13:34	0°♊	
	5872 Sep 16 22:54	0°♋	
	5872 Nov 11 10:27	0°♌	
asc. node	5872 Nov 14 08:10	1°♌02'25	
retrograde	5872 Dec 12 02:55	6°♌10'38	
min. Earth dist.	5873 Jan 09 00:15	0°♌46'34	0.46506 AU

	5873 Jan 11 06:08	30℞♋	
greatest brilliancy	5873 Jan 16 07:19	28°♋12'37	-2.4m
opposition	5873 Jan 17 10:57	27°♋48'07	3°32'35
direct	5873 Feb 19 10:38	20°♋59'57	
	5873 Apr 01 14:15	0°♌	
	5873 Jun 02 01:23	0°♍	
	5873 Jul 24 04:34	0°♎	
	5873 Sep 11 23:33	0°♏	
	5873 Oct 30 03:06	0°♐	
evening set	5873 Nov 15 23:25	10°♐45'49	
desc. node	5873 Nov 15 06:02	10°♐17'52	
max. Earth dist.	5873 Dec 09 09:19	25°♐59'42	2.61168 AU
	5873 Dec 15 11:00	0°♑	
conjunction	5873 Dec 31 19:13	10°♑54'09	-0°24'53
minimum elong	5873 Dec 31 18:23	10°♑52'46	0°24'51
	5874 Jan 28 18:44	0°♒	
morning rise	5874 Feb 17 02:55	13°♒32'01	
	5874 Mar 12 03:30	0°♓	
	5874 Apr 21 20:02	0°♈	
	5874 May 31 08:09	0°♉	
	5874 Jul 09 08:49	0°♊	
	5874 Aug 17 22:16	0°♋	
	5874 Sep 28 13:04	0°♌	
asc. node	5874 Oct 02 07:06	2°♌34'45	
	5874 Nov 14 14:31	0°♍	
retrograde	5875 Jan 25 07:10	25°♍01'28	
min. Earth dist.	5875 Feb 28 00:44	17°♍26'39	0.59271 AU
opposition	5875 Mar 05 18:50	15°♍10'26	4°52'40
greatest brilliancy	5875 Mar 04 19:03	15°♍33'56	-1.7m
direct	5875 Apr 11 23:46	6°♍36'58	
	5875 Jun 26 20:27	0°♎	
	5875 Aug 21 20:13	0°♏	
desc. node	5875 Oct 03 04:31	25°♏08'36	
	5875 Oct 11 01:44	0°♐	
	5875 Nov 26 23:41	0°♑	
evening set	5875 Dec 25 15:42	19°♑17'10	
max. Earth dist.	5876 Jan 09 09:33	29°♑29'49	2.50390 AU
	5876 Jan 10 02:48	0°♒	
conjunction	5876 Feb 14 10:02	25°♒16'34	-1°00'42
minimum elong	5876 Feb 14 08:48	25°♒14'19	1°00'41
	5876 Feb 20 20:22	0°♓	
	5876 Mar 31 17:01	0°♈	
morning rise	5876 Apr 11 20:52	8°♈35'19	
	5876 May 09 09:04	0°♉	
	5876 Jun 16 15:31	0°♊	
	5876 Jul 25 09:41	0°♋	
asc. node	5876 Aug 19 04:57	18°♋40'43	
	5876 Sep 03 15:04	0°♌	
	5876 Oct 16 12:29	0°♍	
	5876 Dec 03 10:52	0°♎	
	5877 Feb 11 04:03	0°♏	
retrograde	5877 Mar 01 06:13	1°♏57'16	
	5877 Mar 18 06:23	30℞♎	
min. Earth dist.	5877 Apr 08 16:12	22°♎49'08	0.66682 AU
opposition	5877 Apr 10 14:51	22°♎02'28	3°51'37
greatest brilliancy	5877 Apr 10 08:41	22°♎08'38	-1.3m
direct	5877 May 20 14:57	12°♎31'40	
	5877 Jul 23 10:40	0°♏	
desc. node	5877 Aug 20 03:39	13°♏37'26	
	5877 Sep 18 16:17	0°♐	
	5877 Nov 06 11:58	0°♑	
	5877 Dec 21 01:31	0°♒	
	5878 Jan 31 15:06	0°♓	
evening set	5878 Feb 12 18:05	9°♓04'39	
	5878 Mar 12 02:24	0°♈	
max. Earth dist.	5878 Mar 18 08:14	4°♈50'52	2.37642 AU
conjunction	5878 Apr 16 11:59	27°♈44'03	-0°50'47
minimum elong	5878 Apr 16 15:09	27°♈50'19	0°50'46
	5878 Apr 19 08:49	0°♉	
	5878 May 27 07:59	0°♊	
morning rise	5878 Jun 27 13:59	24°♊22'53	
	5878 Jul 04 21:17	0°♋	
asc. node	5878 Jul 07 04:29	1°♋45'39	
	5878 Aug 13 20:40	0°♌	
	5878 Sep 24 23:51	0°♍	
	5878 Nov 09 02:25	0°♎	
	5878 Dec 28 22:06	0°♏	
	5879 Mar 04 17:13	0°♐	
retrograde	5879 Apr 04 12:58	5°♐02'51	
	5879 May 02 18:05	30℞♏	
opposition	5879 May 14 11:41	25°♏35'51	1°51'19
greatest brilliancy	5879 May 14 15:04	25°♏32'30	-1.3m
min. Earth dist.	5879 May 16 08:57	24°♏51'06	0.67558 AU
direct	5879 Jun 24 21:08	15°♏36'30	
desc. node	5879 Jul 08 03:18	16°♏37'24	
	5879 Aug 19 19:04	0°♐	
	5879 Oct 15 05:37	0°♑	
	5879 Nov 30 15:31	0°♒	
	5880 Jan 11 16:09	0°♓	
	5880 Feb 20 03:48	0°♈	
	5880 Mar 29 08:29	0°♉	
evening set	5880 Apr 21 14:01	18°♉23'05	
	5880 May 06 07:41	0°♊	
asc. node	5880 May 24 03:30	13°♊56'03	
	5880 Jun 13 23:56	0°♋	
conjunction	5880 Jun 29 10:30	11°♋41'32	0°24'27
minimum elong	5880 Jun 29 08:28	11°♋37'43	0°24'23
	5880 Jul 24 03:42	0°♌	
max. Earth dist.	5880 Aug 16 03:40	16°♌33'16	2.46842 AU
morning rise	5880 Aug 30 19:27	26°♌51'34	
	5880 Sep 04 07:56	0°♍	
	5880 Oct 18 20:27	0°♎	
	5880 Dec 05 00:35	0°♏	
	5881 Jan 25 00:30	0°♐	
	5881 Mar 28 09:50	0°♑	
retrograde	5881 May 11 02:18	9°♑13'30	
desc. node	5881 May 25 02:04	7°♑59'23	
opposition	5881 Jun 18 08:48	0°♑37'39	-0°55'07
greatest brilliancy	5881 Jun 18 13:01	0°♑33'36	-1.6m
	5881 Jun 20 00:01	30℞♐	
min. Earth dist.	5881 Jun 23 22:56	28°♐29'04	0.61885 AU
direct	5881 Jul 29 13:20	20°♐41'00	
	5881 Sep 09 10:34	0°♑	
	5881 Nov 05 04:41	0°♒	
	5881 Dec 19 13:33	0°♓	
	5882 Jan 28 20:50	0°♈	
	5882 Mar 08 11:33	0°♉	
asc. node	5882 Apr 11 01:30	26°♉17'36	
	5882 Apr 15 19:46	0°♊	
	5882 May 24 22:47	0°♋	
evening set	5882 Jun 29 15:30	26°♋24'12	
	5882 Jul 04 14:55	0°♌	
	5882 Aug 16 06:12	0°♍	
conjunction	5882 Aug 25 14:33	6°♍23'19	1°05'15
minimum elong	5882 Aug 25 13:41	6°♍21'51	1°05'14
max. Earth dist.	5882 Sep 20 17:07	23°♍54'51	2.58989 AU
	5882 Sep 29 22:26	0°♎	
morning rise	5882 Oct 15 09:28	10°♎05'50	
	5882 Nov 15 10:39	0°♏	

	5883 Jan 02 15:29	0°♐	
	5883 Feb 22 02:24	0°♑	
desc. node	5883 Apr 12 00:23	26°♑27'41	
	5883 Apr 19 07:14	0°♒	
retrograde	5883 Jun 27 22:21	20°♒30'11	
opposition	5883 Aug 01 20:57	13°♒22'49	-4°26'25
greatest brilliancy	5883 Aug 03 03:55	12°♒55'35	-2.1m
min. Earth dist.	5883 Aug 10 06:50	10°♒26'19	0.50366 AU
direct	5883 Sep 09 05:05	4°♒38'12	
	5883 Nov 18 19:56	0°♓	
	5884 Jan 03 02:09	0°♈	
	5884 Feb 12 18:32	0°♉	
asc. node	5884 Feb 27 01:30	10°♉47'18	
	5884 Mar 23 11:35	0°♊	
	5884 May 02 18:40	0°♋	
	5884 Jun 13 12:37	0°♌	
	5884 Jul 27 02:10	0°♍	
evening set	5884 Aug 18 06:49	14°♍49'29	
	5884 Sep 10 09:38	0°♎	
conjunction	5884 Oct 06 02:59	16°♎38'11	1°01'03
minimum elong	5884 Oct 06 03:54	16°♎39'40	1°01'03
max. Earth dist.	5884 Oct 15 08:19	22°♎33'06	2.66161 AU
	5884 Oct 27 00:09	0°♏	
morning rise	5884 Nov 20 13:45	15°♏36'35	
	5884 Dec 13 07:55	0°♐	
	5885 Jan 29 23:19	0°♑	
desc. node	5885 Feb 26 23:02	17°♑32'06	
	5885 Mar 18 23:31	0°♒	
	5885 May 07 03:56	0°♓	
	5885 Jun 29 18:10	0°♈	
retrograde	5885 Sep 05 16:53	21°♈18'27	
opposition	5885 Oct 05 23:17	16°♈15'29	-6°01'16
greatest brilliancy	5885 Oct 07 00:45	15°♈57'57	-2.9m
min. Earth dist.	5885 Oct 10 04:50	15°♈05'52	0.38138 AU
direct	5885 Nov 06 04:45	10°♈45'06	
	5886 Jan 04 09:37	0°♉	
asc. node	5886 Jan 14 01:43	5°♉27'33	
	5886 Feb 22 03:47	0°♊	
	5886 Apr 07 19:56	0°♋	
	5886 May 22 09:58	0°♌	
	5886 Jul 06 22:51	0°♍	
	5886 Aug 22 13:33	0°♎	
evening set	5886 Sep 27 07:39	22°♎42'44	
	5886 Oct 08 19:47	0°♏	
max. Earth dist.	5886 Nov 07 03:59	18°♏36'17	2.67852 AU
conjunction	5886 Nov 11 17:46	21°♏30'44	0°32'35
minimum elong	5886 Nov 11 18:39	21°♏32'08	0°32'36
	5886 Nov 25 01:29	0°♐	
morning rise	5886 Dec 25 14:30	19°♐35'57	
	5887 Jan 10 15:49	0°♑	
desc. node	5887 Jan 14 21:30	2°♑45'29	
	5887 Feb 25 06:05	0°♒	
	5887 Apr 10 18:26	0°♓	
	5887 May 24 07:41	0°♈	
	5887 Jul 06 09:08	0°♉	
	5887 Aug 19 10:00	0°♊	
	5887 Oct 10 02:10	0°♋	
retrograde	5887 Nov 21 00:57	10°♋55'41	
asc. node	5887 Dec 02 00:24	10°♋03'26	
min. Earth dist.	5887 Dec 17 09:13	6°♋17'36	0.41348 AU
opposition	5887 Dec 25 02:11	3°♋50'47	1°31'37
greatest brilliancy	5887 Dec 24 14:09	4°♋00'21	-2.7m
	5888 Jan 07 17:03	30°℞♊	
direct	5888 Jan 25 00:50	27°♊59'25	
	5888 Feb 12 01:29	0°♋	
	5888 Apr 21 22:17	0°♌	
	5888 Jun 12 19:50	0°♍	
	5888 Aug 01 11:06	0°♎	
	5888 Sep 19 05:18	0°♏	
evening set	5888 Nov 01 17:40	27°♏18'23	
	5888 Nov 05 23:16	0°♐	
max. Earth dist.	5888 Nov 29 11:46	15°♐06'18	2.64089 AU
desc. node	5888 Dec 01 20:05	16°♐37'38	
conjunction	5888 Dec 16 20:21	26°♐25'39	-0°08'08
minimum elong	5888 Dec 16 20:06	26°♐25'14	0°08'05
behind sun begin	5888 Dec 16 03:28	25°♐57'57	
behind sun end	5888 Dec 17 12:44	26°♐52'32	
	5888 Dec 22 06:36	0°♑	
morning rise	5889 Jan 31 08:13	26°♑55'13	
	5889 Feb 04 20:00	0°♒	
	5889 Mar 19 14:52	0°♓	
	5889 Apr 29 19:45	0°♈	
	5889 Jun 08 20:49	0°♉	
	5889 Jul 18 10:53	0°♊	
	5889 Aug 27 17:55	0°♋	
	5889 Oct 09 23:18	0°♌	
asc. node	5889 Oct 18 23:14	5°♌44'40	
	5889 Dec 03 15:23	0°♍	
retrograde	5890 Jan 09 14:30	8°♍17'44	
min. Earth dist.	5890 Feb 10 03:15	1°♍29'57	0.54751 AU
	5890 Feb 14 01:06	30°℞♌	
greatest brilliancy	5890 Feb 16 00:24	29°♌14'10	-1.9m
opposition	5890 Feb 17 05:53	28°♌45'40	4°47'54
direct	5890 Mar 24 23:08	20°♌46'01	
	5890 May 06 18:49	0°♍	
	5890 Jul 08 13:52	0°♎	
	5890 Aug 30 03:46	0°♏	
	5890 Oct 18 08:21	0°♐	
desc. node	5890 Oct 19 19:06	0°♐54'29	
	5890 Dec 03 22:58	0°♑	
evening set	5890 Dec 09 10:55	3°♑38'54	
max. Earth dist.	5890 Dec 26 23:29	15°♑26'16	2.55122 AU
	5891 Jan 17 02:52	0°♒	
conjunction	5891 Jan 26 15:19	6°♒40'42	-0°49'16
minimum elong	5891 Jan 26 13:53	6°♒38'10	0°49'15
	5891 Feb 28 01:33	0°♓	
morning rise	5891 Mar 19 22:43	14°♓42'57	
	5891 Apr 09 04:56	0°♈	
	5891 May 18 03:33	0°♉	
	5891 Jun 25 15:26	0°♊	
	5891 Aug 03 14:14	0°♋	
asc. node	5891 Sep 05 22:38	24°♋49'22	
	5891 Sep 13 02:32	0°♌	
	5891 Oct 26 18:57	0°♍	
	5891 Dec 17 00:34	0°♎	
retrograde	5892 Feb 16 18:15	18°♎33'40	
min. Earth dist.	5892 Mar 24 12:04	9°♎58'01	0.64549 AU
opposition	5892 Mar 27 23:10	8°♎34'55	4°24'20
greatest brilliancy	5892 Mar 27 10:25	8°♎47'39	-1.4m
	5892 Apr 26 03:47	30°℞♍	
direct	5892 May 06 01:23	29°♍22'29	
	5892 May 16 10:04	0°♎	
	5892 Aug 04 20:50	0°♏	
desc. node	5892 Sep 05 18:18	17°♏27'27	
	5892 Sep 27 03:41	0°♐	
	5892 Nov 14 00:05	0°♑	
	5892 Dec 28 07:41	0°♒	
evening set	5893 Jan 22 08:26	17°♒51'04	
	5893 Feb 07 21:54	0°♓	
max. Earth dist.	5893 Feb 07 14:23	29°♒46'05	2.42269 AU

	5893 Mar 19 12:01	0°♈	
conjunction	5893 Mar 20 12:41	0°♈47'38	-1°04'02
minimum elong	5893 Mar 20 13:47	0°♈49'44	1°04'02
	5893 Apr 26 21:24	0°♉	
morning rise	5893 May 27 09:38	24°♉04'04	
	5893 Jun 03 22:34	0°♊	
	5893 Jul 12 12:36	0°♋	
asc. node	5893 Jul 23 20:14	8°♋37'31	
	5893 Aug 21 12:24	0°♌	
	5893 Oct 02 18:46	0°♍	
	5893 Nov 17 11:46	0°♎	
	5894 Jan 08 22:06	0°♏	
retrograde	5894 Mar 22 02:34	22°♏29'44	
opposition	5894 May 01 08:31	12°♏49'05	2°43'17
greatest brilliancy	5894 May 01 09:42	12°♏47'55	-1.3m
min. Earth dist.	5894 May 01 17:42	12°♏39'57	0.68017 AU
direct	5894 Jun 11 09:04	2°♏57'55	
desc. node	5894 Jul 24 17:25	12°♏05'14	
	5894 Sep 02 05:06	0°♐	
	5894 Oct 24 04:22	0°♑	
	5894 Dec 08 14:50	0°♒	
	5895 Jan 19 09:12	0°♓	
	5895 Feb 27 19:31	0°♈	
evening set	5895 Mar 24 14:54	19°♈25'51	
	5895 Apr 06 23:48	0°♉	
	5895 May 14 21:54	0°♊	
conjunction	5895 Jun 02 05:01	14°♊20'01	-0°06'05
minimum elong	5895 Jun 02 05:38	14°♊21'13	0°06'06
behind sun begin	5895 Jun 01 01:35	13°♊26'37	
behind sun end	5895 Jun 03 09:41	15°♊15'47	
asc. node	5895 Jun 10 19:33	21°♊00'48	
	5895 Jun 22 11:43	0°♋	
max. Earth dist.	5895 Jul 24 16:19	24°♋14'13	2.41310 AU
	5895 Aug 01 12:19	0°♌	
morning rise	5895 Aug 09 12:03	5°♌49'15	
	5895 Sep 12 14:14	0°♍	
	5895 Oct 27 04:41	0°♎	
	5895 Dec 13 23:37	0°♏	
	5896 Feb 05 11:31	0°♐	
retrograde	5896 Apr 25 18:22	25°♐41'45	
opposition	5896 Jun 03 20:30	16°♐42'39	0°14'53
greatest brilliancy	5896 Jun 03 21:36	16°♐41'35	-1.4m
min. Earth dist.	5896 Jun 08 00:25	15°♐05'25	0.64881 AU
desc. node	5896 Jun 10 16:09	14°♐04'16	
direct	5896 Jul 15 08:17	6°♐40'05	
	5896 Sep 26 05:57	0°♑	
	5896 Nov 15 07:51	0°♒	
	5896 Dec 28 09:21	0°♓	
	5897 Feb 06 05:40	0°♈	
	5897 Mar 16 14:31	0°♉	
	5897 Apr 23 17:35	0°♊	
asc. node	5897 Apr 27 19:38	3°♊11'32	
	5897 Jun 01 14:41	0°♋	
evening set	5897 Jun 04 20:27	2°♋27'19	
	5897 Jul 12 00:13	0°♌	
conjunction	5897 Aug 05 17:04	17°♌40'02	0°56'07
minimum elong	5897 Aug 05 15:06	17°♌36'36	0°56'06
	5897 Aug 23 09:25	0°♍	
max. Earth dist.	5897 Sep 09 01:58	11°♍24'51	2.54730 AU
morning rise	5897 Sep 29 03:48	24°♍52'24	
	5897 Oct 06 22:04	0°♎	
	5897 Nov 22 13:05	0°♏	
	5898 Jan 10 10:50	0°♐	
	5898 Mar 04 05:38	0°♑	
desc. node	5898 Apr 28 14:40	25°♑22'34	
	5898 May 13 22:37	0°♒	
retrograde	5898 Jun 07 10:56	3°♒14'33	
	5898 Jun 30 04:29	30°℞♑	
opposition	5898 Jul 13 22:08	25°♑26'26	-3°00'47
greatest brilliancy	5898 Jul 14 16:58	25°♑09'06	-1.8m
min. Earth dist.	5898 Jul 21 11:09	22°♑40'05	0.55441 AU
direct	5898 Aug 22 19:17	16°♑00'36	
	5898 Oct 12 19:03	0°♒	
	5898 Dec 02 18:32	0°♓	
	5899 Jan 13 21:44	0°♈	
	5899 Feb 22 09:19	0°♉	
asc. node	5899 Mar 15 18:19	16°♉28'46	
	5899 Apr 02 08:27	0°♊	
	5899 May 12 00:54	0°♋	
	5899 Jun 22 05:50	0°♌	
evening set	5899 Aug 01 07:01	27°♌54'55	
	5899 Aug 04 08:24	0°♍	
	5899 Sep 18 07:55	0°♎	
conjunction	5899 Sep 21 15:15	2°♎09'44	1°06'26
minimum elong	5899 Sep 21 15:44	2°♎10'31	1°06'26
max. Earth dist.	5899 Oct 06 21:28	12°♎04'53	2.63982 AU
	5899 Nov 03 19:32	0°♏	
morning rise	5899 Nov 07 15:40	2°♏26'39	
	5899 Dec 21 08:23	0°♐	
	5900 Feb 07 18:04	0°♑	
desc. node	5900 Mar 16 13:04	22°♑16'06	
	5900 Mar 29 14:50	0°♒	
	5900 May 22 19:12	0°♓	
retrograde	5900 Aug 06 17:55	24°♓17'47	
opposition	5900 Sep 07 14:47	18°♓30'55	-6°14'34
greatest brilliancy	5900 Sep 09 08:02	17°♓59'21	-2.6m
min. Earth dist.	5900 Sep 15 07:38	16°♓10'12	0.42123 AU
direct	5900 Oct 12 00:53	11°♓38'06	
	5900 Dec 07 22:59	0°♈	
	5901 Jan 24 11:15	0°♉	
asc. node	5901 Jan 31 17:15	5°♉00'44	
	5901 Mar 08 00:13	0°♊	
	5901 Apr 19 02:21	0°♋	
	5901 Jun 01 03:51	0°♌	
	5901 Jul 15 17:03	0°♍	
	5901 Aug 30 16:32	0°♎	
evening set	5901 Sep 13 11:23	8°♎51'29	
	5901 Oct 16 14:42	0°♏	
conjunction	5901 Oct 29 19:32	8°♏23'20	0°45'36
minimum elong	5901 Oct 29 20:36	8°♏25'02	0°45'37
max. Earth dist.	5901 Oct 30 12:43	8°♏50'39	2.67838 AU
	5901 Dec 02 19:28	0°♐	
morning rise	5901 Dec 12 22:23	6°♐27'03	
	5902 Jan 18 16:49	0°♑	
desc. node	5902 Feb 01 12:06	8°♑54'04	
	5902 Mar 05 23:59	0°♒	
	5902 Apr 20 17:38	0°♓	
	5902 Jun 05 05:41	0°♈	
	5902 Jul 21 16:40	0°♉	
	5902 Sep 13 07:04	0°♊	
retrograde	5902 Oct 26 12:57	11°♊05'07	
min. Earth dist.	5902 Nov 22 14:05	6°♊39'07	0.37669 AU
opposition	5902 Nov 26 21:18	5°♊26'42	-1°40'23
greatest brilliancy	5902 Nov 26 16:43	5°♊29'55	-3.0m
asc. node	5902 Dec 19 17:43	0°♊42'14	
direct	5902 Dec 26 10:21	0°♊24'13	
	5903 Mar 17 12:55	0°♋	
	5903 May 06 21:01	0°♌	
	5903 Jun 24 03:07	0°♍	

	5903 Aug 11 05:20	0°♎	
	5903 Sep 28 06:04	0°♏	
evening set	5903 Oct 20 16:02	14°♏05'44	
	5903 Nov 14 17:38	0°♐	
max. Earth dist.	5903 Nov 22 01:50	4°♐41'46	2.66203 AU
conjunction	5903 Dec 04 13:22	12°♐43'16	0°08'31
minimum elong	5903 Dec 04 13:38	12°♐43'41	0°08'33
behind sun begin	5903 Dec 03 21:37	12°♐17'52	
behind sun end	5903 Dec 05 05:38	13°♐09'31	
desc. node	5903 Dec 20 11:11	23°♐02'37	
	5903 Dec 31 02:15	0°♑	
morning rise	5904 Jan 17 23:22	11°♑49'40	
	5904 Feb 13 23:22	0°♒	
	5904 Mar 28 07:01	0°♓	
	5904 May 09 04:18	0°♈	
	5904 Jun 18 23:58	0°♉	
	5904 Jul 29 12:08	0°♊	
	5904 Sep 09 06:16	0°♋	
	5904 Oct 26 16:53	0°♌	
asc. node	5904 Nov 05 15:59	5°♌12'45	
retrograde	5904 Dec 24 02:49	19°♌01'47	
min. Earth dist.	5905 Jan 22 07:15	13°♌06'45	0.49551 AU
greatest brilliancy	5905 Jan 29 03:47	10°♌35'48	-2.2m
opposition	5905 Jan 30 10:32	10°♌07'24	4°13'03
direct	5905 Mar 05 10:58	2°♌50'43	
	5905 May 25 20:35	0°♍	
	5905 Jul 19 07:38	0°♎	
	5905 Sep 07 22:05	0°♏	
	5905 Oct 26 09:51	0°♐	
desc. node	5905 Nov 06 09:44	6°♐58'56	
evening set	5905 Nov 25 06:30	19°♐07'59	
	5905 Dec 11 20:17	0°♑	
max. Earth dist.	5905 Dec 16 10:51	3°♑03'13	2.59235 AU
conjunction	5906 Jan 10 17:42	20°♑05'25	-0°34'19
minimum elong	5906 Jan 10 16:35	20°♑03'31	0°34'17
	5906 Jan 25 03:01	0°♒	
morning rise	5906 Feb 28 11:39	24°♒18'31	
	5906 Mar 08 08:26	0°♓	
	5906 Apr 17 20:08	0°♈	
	5906 May 27 02:48	0°♉	
	5906 Jul 04 21:53	0°♊	
	5906 Aug 13 04:05	0°♋	
asc. node	5906 Sep 23 14:20	0°♌16'14	
	5906 Sep 23 05:07	0°♌	
	5906 Nov 07 11:01	0°♍	
	5907 Jan 08 05:17	0°♎	
retrograde	5907 Feb 03 17:19	4°♎16'20	
	5907 Feb 28 12:39	30°℞♍	
min. Earth dist.	5907 Mar 10 14:07	26°♍18'15	0.61432 AU
opposition	5907 Mar 15 13:14	24°♍19'54	4°46'32
greatest brilliancy	5907 Mar 14 17:17	24°♍39'43	-1.6m
direct	5907 Apr 22 12:04	15°♍30'50	
	5907 Jun 18 04:52	0°♎	
	5907 Aug 16 20:30	0°♏	
desc. node	5907 Sep 24 08:23	22°♏19'33	
	5907 Oct 06 23:55	0°♐	
	5907 Nov 23 05:32	0°♑	
evening set	5908 Jan 05 11:24	29°♑19'19	
	5908 Jan 06 10:40	0°♒	
max. Earth dist.	5908 Jan 19 14:51	9°♒18'00	2.47582 AU
	5908 Feb 17 03:38	0°♓	
conjunction	5908 Feb 27 03:07	7°♓24'35	-1°04'35
minimum elong	5908 Feb 27 02:24	7°♓23'15	1°04'35
	5908 Mar 27 22:21	0°♈	
morning rise	5908 Apr 28 03:00	24°♈13'06	
	5908 May 05 12:01	0°♉	
greatest brilliancy	5908 Jun 05 01:34	24°♉01'40	1.2m
	5908 Jun 12 16:14	0°♊	
	5908 Jul 21 08:01	0°♋	
asc. node	5908 Aug 10 14:26	15°♋21'05	
	5908 Aug 30 09:40	0°♌	
	5908 Oct 11 22:39	0°♍	
	5908 Nov 27 17:12	0°♎	
	5909 Jan 25 02:06	0°♏	
retrograde	5909 Mar 09 21:03	9°♏51'27	
min. Earth dist.	5909 Apr 18 03:02	0°♏27'33	0.67440 AU
opposition	5909 Apr 19 06:07	0°♏00'29	3°28'33
greatest brilliancy	5909 Apr 19 03:01	0°♏03'35	-1.3m
	5909 Apr 19 06:37	30°℞♎	
direct	5909 May 29 16:40	20°♎21'21	
	5909 Jul 13 15:01	0°♏	
desc. node	5909 Aug 11 07:39	12°♏28'35	
	5909 Sep 13 14:14	0°♐	
	5909 Nov 02 08:07	0°♑	
	5909 Dec 17 04:41	0°♒	
	5910 Jan 27 20:15	0°♓	
evening set	5910 Feb 27 04:46	22°♓57'47	
	5910 Mar 08 07:27	0°♈	
	5910 Apr 15 13:07	0°♉	
conjunction	5910 May 04 00:37	14°♉37'34	-0°37'06
minimum elong	5910 May 04 03:52	14°♉43'59	0°37'05
	5910 May 23 11:45	0°♊	
max. Earth dist.	5910 May 26 13:53	2°♊25'48	2.36886 AU
asc. node	5910 Jun 28 13:17	28°♊05'50	
	5910 Jul 01 00:45	0°♋	
morning rise	5910 Jul 15 02:52	10°♋43'48	
	5910 Aug 09 23:33	0°♌	
	5910 Sep 21 00:49	0°♍	
	5910 Nov 04 20:17	0°♎	
	5910 Dec 23 15:36	0°♏	
	5911 Feb 20 04:43	0°♐	
retrograde	5911 Apr 13 10:24	12°♐46'31	
opposition	5911 May 23 03:04	3°♐28'17	1°17'39
greatest brilliancy	5911 May 23 06:29	3°♐24'56	-1.3m
min. Earth dist.	5911 May 25 19:35	2°♐24'48	0.66886 AU
	5911 Jun 01 02:36	30°℞♏	
desc. node	5911 Jun 29 06:39	23°♏33'31	
direct	5911 Jul 03 15:09	23°♏26'22	
	5911 Aug 08 04:26	0°♐	
	5911 Oct 09 19:58	0°♑	
	5911 Nov 26 06:03	0°♒	
	5912 Jan 07 14:29	0°♓	
	5912 Feb 16 04:52	0°♈	
	5912 Mar 25 10:33	0°♉	
greatest brilliancy	5912 Apr 01 16:20	5°♉43'35	1.2m
	5912 May 02 10:32	0°♊	
evening set	5912 May 09 01:22	5°♊11'10	
asc. node	5912 May 15 11:30	10°♊12'01	
	5912 Jun 10 03:44	0°♋	
conjunction	5912 Jul 14 20:41	25°♋58'50	0°38'35
minimum elong	5912 Jul 14 18:11	25°♋54'15	0°38'31
	5912 Jul 20 08:33	0°♌	
max. Earth dist.	5912 Aug 26 23:51	26°♌49'33	2.49816 AU
	5912 Aug 31 13:32	0°♍	
morning rise	5912 Sep 12 02:27	7°♍56'19	
	5912 Oct 15 00:38	0°♎	
	5912 Nov 30 21:52	0°♏	
	5913 Jan 19 21:49	0°♐	
	5913 Mar 18 00:43	0°♑	

desc. node	5913 May 16 04:56	17°♉42'44	
retrograde	5913 May 21 11:56	17°♉52'42	
opposition	5913 Jun 28 04:44	9°♉31'53	-1°39'19
greatest brilliancy	5913 Jun 28 13:20	9°♉23'44	-1.6m
min. Earth dist.	5913 Jul 04 12:15	7°♉08'19	0.59838 AU
	5913 Aug 01 11:31	30°℞♐	
direct	5913 Aug 08 00:51	29°♐42'44	
	5913 Aug 14 18:01	0°♉	
	5913 Oct 29 17:15	0°♒	
	5913 Dec 14 13:12	0°♓	
	5914 Jan 24 08:30	0°♈	
	5914 Mar 04 04:57	0°♉	
asc. node	5914 Apr 02 11:13	22°♉49'26	
	5914 Apr 11 17:07	0°♊	
	5914 May 20 23:29	0°♋	
	5914 Jun 30 18:36	0°♌	
evening set	5914 Jul 13 04:45	8°♌51'57	
	5914 Aug 12 12:35	0°♍	
conjunction	5914 Sep 05 21:06	16°♍29'26	1°07'18
minimum elong	5914 Sep 05 20:49	16°♍28'58	1°07'18
	5914 Sep 26 06:06	0°♎	
max. Earth dist.	5914 Sep 27 22:59	1°♎07'06	2.60988 AU
morning rise	5914 Oct 25 02:21	18°♎44'37	
	5914 Nov 11 17:00	0°♏	
	5914 Dec 29 14:17	0°♐	
	5915 Feb 17 02:46	0°♑	
desc. node	5915 Apr 03 04:10	25°♑43'44	
	5915 Apr 11 02:48	0°♒	
	5915 Jun 23 07:24	0°♓	
retrograde	5915 Jul 12 01:32	2°♓00'38	
	5915 Jul 30 01:06	30°℞♒	
opposition	5915 Aug 15 00:52	25°♒20'12	-5°13'23
greatest brilliancy	5915 Aug 16 14:02	24°♒48'50	-2.3m
min. Earth dist.	5915 Aug 23 15:20	22°♒27'10	0.47365 AU
direct	5915 Sep 21 04:48	17°♒09'19	
	5915 Nov 07 02:22	0°♓	
	5915 Dec 27 03:29	0°♈	
	5916 Feb 07 03:18	0°♉	
asc. node	5916 Feb 18 10:22	8°♉21'18	
	5916 Mar 18 12:36	0°♊	
	5916 Apr 28 06:58	0°♋	
	5916 Jun 09 09:20	0°♌	
	5916 Jul 23 05:23	0°♍	
evening set	5916 Aug 28 18:00	24°♍09'51	
	5916 Sep 06 17:02	0°♎	
conjunction	5916 Oct 15 12:36	24°♎58'51	0°56'13
minimum elong	5916 Oct 15 13:40	25°♎00'32	0°56'13
max. Earth dist.	5916 Oct 21 15:13	28°♎52'48	2.66993 AU
	5916 Oct 23 09:22	0°♏	
morning rise	5916 Nov 29 08:39	23°♏29'12	
	5916 Dec 09 15:20	0°♐	
	5917 Jan 25 23:07	0°♑	
desc. node	5917 Feb 18 03:00	14°♑41'55	
	5917 Mar 14 05:55	0°♒	
	5917 Apr 30 20:16	0°♓	
	5917 Jun 19 01:28	0°♈	
	5917 Aug 16 03:19	0°♉	
retrograde	5917 Sep 25 08:58	9°♉02'00	
opposition	5917 Oct 25 05:41	4°♉06'24	-4°56'12
greatest brilliancy	5917 Oct 25 15:54	3°♉59'40	-3.0m
min. Earth dist.	5917 Oct 26 12:05	3°♉46'22	0.36999 AU
	5917 Nov 12 10:12	30°℞♈	
direct	5917 Nov 24 01:05	29°♈06'02	
	5917 Dec 05 17:15	0°♉	
asc. node	5918 Jan 05 09:02	9°♉34'50	
	5918 Feb 12 19:14	0°♊	
	5918 Apr 01 10:26	0°♋	
	5918 May 17 08:11	0°♌	
	5918 Jul 02 14:53	0°♍	
	5918 Aug 18 15:51	0°♎	
	5918 Oct 05 03:41	0°♏	
evening set	5918 Oct 06 13:00	0°♏52'36	
max. Earth dist.	5918 Nov 13 06:01	24°♏46'01	2.67505 AU
conjunction	5918 Nov 20 15:25	29°♏28'38	0°24'07
minimum elong	5918 Nov 20 16:06	29°♏29'44	0°24'08
	5918 Nov 21 11:04	0°♐	
morning rise	5919 Jan 03 13:17	27°♐46'36	
desc. node	5919 Jan 06 01:20	29°♐24'30	
	5919 Jan 06 23:06	0°♑	
	5919 Feb 21 06:58	0°♒	
	5919 Apr 06 08:00	0°♓	
	5919 May 19 04:41	0°♈	
	5919 Jun 30 05:35	0°♉	
	5919 Aug 11 10:55	0°♊	
	5919 Sep 25 20:37	0°♋	
asc. node	5919 Nov 23 09:09	25°♋14'49	
retrograde	5919 Dec 05 01:00	26°♋12'56	
min. Earth dist.	5920 Jan 01 00:56	21°♋11'38	0.44097 AU
greatest brilliancy	5920 Jan 08 10:59	18°♋41'28	-2.5m
opposition	5920 Jan 09 09:36	18°♋22'13	2°49'51
direct	5920 Feb 10 11:58	11°♋58'56	
	5920 Apr 12 02:29	0°♌	
	5920 Jun 07 01:51	0°♍	
	5920 Jul 27 23:41	0°♎	
	5920 Sep 15 07:23	0°♏	
	5920 Nov 02 07:15	0°♐	
evening set	5920 Nov 10 20:16	5°♐26'41	
desc. node	5920 Nov 22 23:50	13°♐14'56	
max. Earth dist.	5920 Dec 06 02:22	21°♐45'25	2.62577 AU
	5920 Dec 18 15:39	0°♑	
conjunction	5920 Dec 26 06:41	5°♑03'11	-0°17'54
minimum elong	5920 Dec 26 06:05	5°♑02'12	0°17'51
	5921 Feb 01 02:51	0°♒	
morning rise	5921 Feb 10 15:57	6°♒36'54	
	5921 Mar 15 16:52	0°♓	
	5921 Apr 25 15:31	0°♈	
	5921 Jun 04 09:25	0°♉	
	5921 Jul 13 15:30	0°♊	
	5921 Aug 22 10:50	0°♋	
	5921 Oct 03 12:54	0°♌	
asc. node	5921 Oct 10 08:33	4°♌34'37	
	5921 Nov 21 10:57	0°♍	
retrograde	5922 Jan 19 17:17	18°♍32'56	
min. Earth dist.	5922 Feb 21 11:45	11°♍18'44	0.57338 AU
opposition	5922 Feb 27 21:21	8°♍48'34	4°53'53
greatest brilliancy	5922 Feb 26 18:37	9°♍14'45	-1.8m
direct	5922 Apr 05 10:53	0°♍29'26	
	5922 Jul 02 06:03	0°♎	
	5922 Aug 25 15:09	0°♏	
desc. node	5922 Oct 10 22:28	27°♏49'41	
	5922 Oct 14 10:27	0°♐	
	5922 Nov 30 06:20	0°♑	
evening set	5922 Dec 19 12:21	12°♑51'27	
max. Earth dist.	5923 Jan 04 09:09	23°♑41'43	2.52584 AU
	5923 Jan 13 11:08	0°♒	
conjunction	5923 Feb 06 23:53	17°♒23'29	-0°56'27
minimum elong	5923 Feb 06 22:28	17°♒20'57	0°56'25
	5923 Feb 24 08:01	0°♓	
morning rise	5923 Apr 02 22:29	28°♓09'29	

	5923 Apr 05 08:26	0°♈	
	5923 May 14 03:36	0°♉	
	5923 Jun 21 12:15	0°♊	
	5923 Jul 30 07:43	0°♋	
asc. node	5923 Aug 28 06:30	21°♋43'18	
	5923 Sep 08 14:19	0°♌	
	5923 Oct 21 16:37	0°♍	
	5923 Dec 09 12:53	0°♎	
retrograde	5924 Feb 25 13:01	26°♎48'22	
min. Earth dist.	5924 Apr 03 05:25	17°♎54'27	0.65852 AU
opposition	5924 Apr 05 20:48	16°♎51'03	4°06'25
greatest brilliancy	5924 Apr 05 11:50	17°♎00'01	-1.4m
direct	5924 May 15 11:59	7°♎28'00	
	5924 Jul 29 04:14	0°♏	
desc. node	5924 Aug 27 21:29	15°♏23'32	
	5924 Sep 22 13:47	0°♐	
	5924 Nov 10 00:33	0°♑	
	5924 Dec 24 13:05	0°♒	
evening set	5925 Feb 04 01:58	29°♒55'46	
	5925 Feb 04 04:15	0°♓	
max. Earth dist.	5925 Feb 25 09:39	15°♓56'22	2.39526 AU
	5925 Mar 15 17:45	0°♈	
conjunction	5925 Apr 05 06:01	15°♈58'34	-0°58'16
minimum elong	5925 Apr 05 08:25	16°♈03'17	0°58'16
	5925 Apr 23 01:45	0°♉	
	5925 May 31 01:34	0°♊	
morning rise	5925 Jun 15 01:19	11°♊45'24	
	5925 Jul 08 14:29	0°♋	
asc. node	5925 Jul 15 05:29	5°♋04'09	
	5925 Aug 17 12:38	0°♌	
	5925 Sep 28 15:20	0°♍	
	5925 Nov 12 20:57	0°♎	
	5926 Jan 02 10:51	0°♏	
	5926 Mar 25 08:24	0°♐	
retrograde	5926 Mar 30 18:43	0°♐10'46	
	5926 Apr 05 02:04	30°℞♏	
opposition	5926 May 09 21:07	20°♏37'08	2°13'36
greatest brilliancy	5926 May 09 23:46	20°♏34'30	-1.3m
min. Earth dist.	5926 May 11 01:50	20°♏08'39	0.67887 AU
direct	5926 Jun 20 03:19	10°♏41'03	
desc. node	5926 Jul 15 21:02	14°♏14'59	
	5926 Aug 26 02:16	0°♐	
	5926 Oct 19 10:01	0°♑	
	5926 Dec 04 11:05	0°♒	
	5927 Jan 15 10:16	0°♓	
	5927 Feb 23 22:19	0°♈	
	5927 Apr 03 03:07	0°♉	
evening set	5927 Apr 10 17:42	6°♉01'26	
	5927 May 11 01:37	0°♊	
asc. node	5927 Jun 02 04:48	17°♊18'22	
	5927 Jun 18 16:05	0°♋	
conjunction	5927 Jun 19 11:32	0°♋37'11	0°11'59
minimum elong	5927 Jun 19 10:23	0°♋34'59	0°11'56
behind sun begin	5927 Jun 18 14:48	29°♊57'32	
behind sun end	5927 Jun 20 05:58	1°♋12'24	
	5927 Jul 28 17:09	0°♌	
max. Earth dist.	5927 Aug 09 10:22	8°♌30'58	2.44360 AU
morning rise	5927 Aug 23 12:42	18°♌35'55	
	5927 Sep 08 18:49	0°♍	
	5927 Oct 23 06:15	0°♎	
	5927 Dec 09 14:15	0°♏	
	5928 Jan 30 08:55	0°♐	
	5928 Apr 08 14:48	0°♑	
retrograde	5928 May 05 08:44	3°♑48'22	
	5928 May 29 22:45	30°℞♐	
desc. node	5928 Jun 01 20:00	29°♐05'36	
opposition	5928 Jun 13 00:38	25°♐01'23	-0°24'59
greatest brilliancy	5928 Jun 13 02:22	24°♐59'43	-1.5m
min. Earth dist.	5928 Jun 17 23:15	23°♐06'48	0.63342 AU
direct	5928 Jul 24 09:14	15°♐01'10	
	5928 Sep 17 19:38	0°♑	
	5928 Nov 10 01:34	0°♒	
	5928 Dec 23 20:37	0°♓	
	5929 Feb 01 23:36	0°♈	
	5929 Mar 12 11:39	0°♉	
asc. node	5929 Apr 19 02:54	29°♉32'20	
	5929 Apr 19 17:05	0°♊	
	5929 May 28 16:40	0°♋	
evening set	5929 Jun 20 06:59	16°♋54'20	
	5929 Jul 08 04:34	0°♌	
conjunction	5929 Aug 18 07:45	29°♌04'39	1°02'18
minimum elong	5929 Aug 18 06:25	29°♌02'20	1°02'17
	5929 Aug 19 15:51	0°♍	
max. Earth dist.	5929 Sep 17 01:22	19°♍16'44	2.57186 AU
	5929 Oct 03 05:03	0°♎	
morning rise	5929 Oct 09 14:12	4°♎11'23	
	5929 Nov 18 17:11	0°♏	
	5930 Jan 06 03:27	0°♐	
	5930 Feb 26 09:26	0°♑	
desc. node	5930 Apr 19 18:14	26°♑49'58	
	5930 Apr 27 02:01	0°♒	
retrograde	5930 Jun 19 15:15	13°♒12'33	
opposition	5930 Jul 25 07:45	5°♒45'37	-3°49'35
greatest brilliancy	5930 Jul 26 09:21	5°♒22'34	-2.0m
min. Earth dist.	5930 Aug 02 10:19	2°♒51'18	0.52717 AU
	5930 Aug 11 07:13	30°℞♑	
direct	5930 Sep 02 10:48	26°♑39'55	
	5930 Sep 25 11:04	0°♒	
	5930 Nov 25 19:58	0°♓	
	5931 Jan 08 10:46	0°♈	
	5931 Feb 17 12:32	0°♉	
asc. node	5931 Mar 07 02:39	13°♉25'34	
	5931 Mar 28 20:03	0°♊	
	5931 May 07 19:08	0°♋	
	5931 Jun 18 05:36	0°♌	
	5931 Jul 31 12:50	0°♍	
evening set	5931 Aug 12 18:39	8°♍15'14	
	5931 Sep 14 15:31	0°♎	
conjunction	5931 Oct 01 15:04	11°♎02'13	1°03'46
minimum elong	5931 Oct 01 15:51	11°♎03'29	1°03'46
max. Earth dist.	5931 Oct 13 09:54	18°♎38'08	2.65301 AU
	5931 Oct 31 04:00	0°♏	
morning rise	5931 Nov 16 16:35	10°♏30'32	
	5931 Dec 17 13:20	0°♐	
	5932 Feb 03 11:48	0°♑	
desc. node	5932 Mar 06 17:03	19°♑55'35	
	5932 Mar 23 04:55	0°♒	
	5932 May 13 01:17	0°♓	
	5932 Jul 12 09:12	0°♈	
retrograde	5932 Aug 23 15:47	9°♈19'15	
opposition	5932 Sep 23 12:21	3°♈59'35	-6°20'21
greatest brilliancy	5932 Sep 24 23:35	3°♈34'09	-2.7m
min. Earth dist.	5932 Sep 29 15:07	2°♈14'10	0.39677 AU
	5932 Oct 08 08:59	30°℞♓	
direct	5932 Oct 26 03:54	27°♓54'11	
	5932 Nov 12 15:51	0°♈	
	5933 Jan 14 11:55	0°♉	
asc. node	5933 Jan 22 02:57	4°♉51'07	
	5933 Feb 28 13:21	0°♊	
	5933 Apr 12 19:46	0°♋	

	5933 May 26 14:20	0°♌		
	5933 Jul 10 14:43	0°♍		
	5933 Aug 25 21:18	0°♎		
evening set	5933 Sep 22 01:35	17°♎21'07		
	5933 Oct 11 23:26	0°♏		
max. Earth dist.	5933 Nov 04 15:44	15°♏01'41	2.67956 AU	
conjunction	5933 Nov 06 19:51	16°♏24'26	0°38'14	
minimum elong	5933 Nov 06 20:50	16°♏26'00	0°38'14	
	5933 Nov 28 04:36	0°♐		
morning rise	5933 Dec 20 17:36	14°♐24'53		
	5934 Jan 13 22:09	0°♑		
desc. node	5934 Jan 22 15:38	5°♑39'31		
	5934 Feb 28 20:00	0°♒		
	5934 Apr 14 20:29	0°♓		
	5934 May 29 04:01	0°♈		
	5934 Jul 12 09:12	0°♉		
	5934 Aug 27 19:18	0°♊		
retrograde	5934 Nov 11 02:03	28°♊50'24		
min. Earth dist.	5934 Dec 07 07:48	24°♊24'21	0.39417 AU	
asc. node	5934 Dec 10 01:57	23°♊35'06		
opposition	5934 Dec 13 21:54	22°♊25'49	0°16'11	
greatest brilliancy	5934 Dec 13 20:00	22°♊27'14	-2.9m	
direct	5935 Jan 13 01:07	16°♊59'16		
	5935 Mar 03 18:46	0°♋		
	5935 Apr 29 04:18	0°♌		
	5935 Jun 18 04:11	0°♍		
	5935 Aug 06 01:09	0°♎		
	5935 Sep 23 11:14	0°♏		
evening set	5935 Oct 28 17:16	22°♏07'58		
	5935 Nov 10 02:38	0°♐		
max. Earth dist.	5935 Nov 27 11:01	11°♐06'58	2.65142 AU	
desc. node	5935 Dec 10 13:57	19°♐36'30		
conjunction	5935 Dec 12 16:06	20°♐58'04	-0°01'09	
minimum elong	5935 Dec 12 16:05	20°♐58'02	0°01'07	
behind sun begin	5935 Dec 11 21:25	20°♐27'40		
behind sun end	5935 Dec 13 10:45	21°♐28'25		
	5935 Dec 26 11:11	0°♑		
morning rise	5936 Jan 26 14:15	20°♑45'05		
	5936 Feb 09 04:56	0°♒		
	5936 Mar 23 06:03	0°♓		
	5936 May 03 18:35	0°♈		
	5936 Jun 13 03:30	0°♉		
	5936 Jul 23 01:52	0°♊		
	5936 Sep 01 20:21	0°♋		
	5936 Oct 16 05:21	0°♌		
asc. node	5936 Oct 27 00:26	6°♌30'37		
	5936 Dec 23 14:51	0°♍		
retrograde	5937 Jan 03 07:26	0°♍48'24		
	5937 Jan 13 17:00	30°℞♌		
min. Earth dist.	5937 Feb 02 19:33	24°♌23'41	0.52488 AU	
greatest brilliancy	5937 Feb 09 03:45	21°♌59'44	-2.0m	
opposition	5937 Feb 10 10:47	21°♌30'14	4°38'08	
direct	5937 Mar 17 09:48	13°♌48'42		
	5937 May 15 18:13	0°♍		
	5937 Jul 13 00:57	0°♎		
	5937 Sep 02 17:01	0°♏		
	5937 Oct 21 14:43	0°♐		
desc. node	5937 Oct 27 12:56	3°♐44'08		
evening set	5937 Dec 03 20:06	27°♐47'34		
	5937 Dec 07 04:26	0°♑		
max. Earth dist.	5937 Dec 22 22:55	10°♑30'40	2.57053 AU	
conjunction	5938 Jan 20 03:51	29°♑47'51	-0°43'17	
minimum elong	5938 Jan 20 02:31	29°♑45'32	0°43'14	
	5938 Jan 20 10:51	0°♒		
	5938 Mar 03 13:30	0°♓		
morning rise	5938 Mar 11 16:55	5°♓57'43		
	5938 Apr 12 21:28	0°♈		
	5938 May 22 00:01	0°♉		
	5938 Jun 29 14:49	0°♊		
	5938 Aug 07 15:59	0°♋		
asc. node	5938 Sep 14 00:08	27°♋37'41		
	5938 Sep 17 07:29	0°♌		
	5938 Oct 31 10:18	0°♍		
	5938 Dec 24 01:12	0°♎		
retrograde	5939 Feb 11 19:43	13°♎03'28		
min. Earth dist.	5939 Mar 19 18:08	4°♎44'15	0.63270 AU	
opposition	5939 Mar 23 21:53	3°♎04'45	4°35'20	
greatest brilliancy	5939 Mar 23 05:58	3°♎20'38	-1.5m	
	5939 Mar 31 21:46	30°℞♍		
direct	5939 May 01 12:53	24°♍02'11		
	5939 Jun 04 15:16	0°♎		
	5939 Aug 10 10:08	0°♏		
desc. node	5939 Sep 14 12:24	19°♏43'59		
	5939 Oct 01 18:21	0°♐		
	5939 Nov 18 09:27	0°♑		
	5940 Jan 01 17:26	0°♒		
evening set	5940 Jan 15 22:05	10°♒01'36		
max. Earth dist.	5940 Jan 30 11:19	20°♒30'28	2.44633 AU	
	5940 Feb 12 09:54	0°♓		
conjunction	5940 Mar 10 22:02	20°♓39'16	-1°05'38	
minimum elong	5940 Mar 10 22:14	20°♓39'38	1°05'38	
	5940 Mar 23 02:53	0°♈		
	5940 Apr 30 14:29	0°♉		
morning rise	5940 May 14 19:10	11°♉10'46		
	5940 Jun 07 16:48	0°♊		
	5940 Jul 16 07:01	0°♋		
asc. node	5940 Jul 31 22:05	11°♋53'29		
	5940 Aug 25 06:21	0°♌		
	5940 Oct 06 13:24	0°♍		
	5940 Nov 21 13:07	0°♎		
	5941 Jan 14 13:55	0°♏		
retrograde	5941 Mar 17 10:42	17°♏36'51		
opposition	5941 Apr 26 18:46	7°♏51'03	3°02'55	
min. Earth dist.	5941 Apr 26 11:22	7°♏58'26	0.67886 AU	
greatest brilliancy	5941 Apr 26 18:15	7°♏51'34	-1.3m	
	5941 May 20 05:33	30°℞♎		
direct	5941 Jun 06 13:58	28°♎04'55		
	5941 Jun 25 04:30	0°♏		
desc. node	5941 Aug 01 11:39	12°♏10'37		
	5941 Sep 06 23:54	0°♐		
	5941 Oct 28 00:09	0°♑		
	5941 Dec 12 06:08	0°♒		
	5942 Jan 23 00:26	0°♓		
	5942 Mar 03 11:59	0°♈		
evening set	5942 Mar 13 15:50	7°♈54'45		
	5942 Apr 10 17:04	0°♉		
	5942 May 18 15:00	0°♊		
conjunction	5942 May 21 01:23	1°♊54'57	-0°20'04	
minimum elong	5942 May 21 03:28	1°♊59'02	0°20'04	
asc. node	5942 Jun 18 20:46	24°♊23'33		
	5942 Jun 26 03:41	0°♋		
max. Earth dist.	5942 Jul 09 14:04	10°♋14'12	2.38983 AU	
morning rise	5942 Jul 30 13:14	25°♋55'06		
	5942 Aug 05 02:14	0°♌		
	5942 Sep 16 02:12	0°♍		
	5942 Oct 30 16:47	0°♎		
	5942 Dec 17 18:37	0°♏		
	5943 Feb 10 17:43	0°♐		
retrograde	5943 Apr 21 12:42	20°♐35'59		

opposition	5943 May 30 21:53	11°♐27'42	0°41'48
greatest brilliancy	5943 May 31 00:20	11°♐25'18	-1.4m
min. Earth dist.	5943 Jun 03 09:38	10°♐05'45	0.65912 AU
desc. node	5943 Jun 19 10:20	4°♐32'30	
direct	5943 Jul 11 10:36	1°♐24'48	
	5943 Oct 02 17:29	0°♑	
	5943 Nov 20 14:34	0°♒	
	5944 Jan 02 09:30	0°♓	
	5944 Feb 11 04:01	0°♈	
	5944 Mar 20 11:38	0°♉	
	5944 Apr 27 12:50	0°♊	
asc. node	5944 May 05 20:58	6°♊31'21	
evening set	5944 May 25 00:14	21°♊21'24	
	5944 Jun 05 07:17	0°♋	
	5944 Jul 15 13:23	0°♌	
conjunction	5944 Jul 28 04:46	9°♌08'20	0°49'45
minimum elong	5944 Jul 28 02:26	9°♌04'09	0°49'41
	5944 Aug 26 19:08	0°♍	
max. Earth dist.	5944 Sep 04 13:07	6°♍01'35	2.52607 AU
morning rise	5944 Sep 22 15:31	18°♍18'21	
	5944 Oct 10 05:34	0°♎	
	5944 Nov 25 21:34	0°♏	
	5945 Jan 14 03:42	0°♐	
	5945 Mar 09 07:18	0°♑	
desc. node	5945 May 06 08:43	23°♑32'14	
retrograde	5945 May 31 09:58	26°♑54'30	
opposition	5945 Jul 07 11:34	18°♑50'43	-2°25'30
greatest brilliancy	5945 Jul 08 01:37	18°♑37'36	-1.7m
min. Earth dist.	5945 Jul 14 12:10	16°♑13'28	0.57514 AU
direct	5945 Aug 16 20:36	9°♑12'45	
	5945 Oct 20 19:04	0°♒	
	5945 Dec 08 01:10	0°♓	
	5946 Jan 18 13:22	0°♈	
	5946 Feb 26 17:52	0°♉	
asc. node	5946 Mar 23 20:09	19°♉27'52	
	5946 Apr 06 11:15	0°♊	
	5946 May 15 22:07	0°♋	
	5946 Jun 25 21:16	0°♌	
evening set	5946 Jul 24 21:20	20°♌26'27	
	5946 Aug 07 18:27	0°♍	
conjunction	5946 Sep 15 14:38	26°♍04'07	1°07'24
minimum elong	5946 Sep 15 14:50	26°♍04'28	1°07'25
	5946 Sep 21 13:58	0°♎	
max. Earth dist.	5946 Oct 03 20:36	8°♎01'28	2.62735 AU
morning rise	5946 Nov 02 12:28	27°♎08'18	
	5946 Nov 07 00:09	0°♏	
	5946 Dec 24 15:36	0°♐	
	5947 Feb 11 11:17	0°♑	
desc. node	5947 Mar 24 07:17	24°♑12'13	
	5947 Apr 03 10:31	0°♒	
	5947 May 31 16:36	0°♓	
retrograde	5947 Jul 26 12:12	14°♓31'11	
opposition	5947 Aug 28 07:42	8°♓20'06	-5°53'00
greatest brilliancy	5947 Aug 30 01:04	7°♓46'54	-2.4m
min. Earth dist.	5947 Sep 05 16:29	5°♓39'53	0.44398 AU
direct	5947 Oct 03 02:10	0°♓49'42	
	5947 Dec 17 12:24	0°♈	
	5948 Jan 30 19:18	0°♉	
asc. node	5948 Feb 08 18:43	6°♉26'08	
	5948 Mar 12 04:23	0°♊	
	5948 Apr 22 13:32	0°♋	
	5948 Jun 04 02:41	0°♌	
	5948 Jul 18 06:33	0°♍	
	5948 Sep 01 23:36	0°♎	
evening set	5948 Sep 06 20:25	3°♎08'48	
	5948 Oct 18 18:29	0°♏	
conjunction	5948 Oct 23 18:16	3°♏10'38	0°50'20
minimum elong	5948 Oct 23 19:22	3°♏12'22	0°50'20
max. Earth dist.	5948 Oct 26 19:53	5°♏07'42	2.67564 AU
	5948 Dec 04 23:22	0°♐	
morning rise	5948 Dec 07 03:22	1°♐22'38	
	5949 Jan 21 01:10	0°♑	
desc. node	5949 Feb 08 06:12	11°♑40'04	
	5949 Mar 08 18:08	0°♒	
	5949 Apr 24 05:13	0°♓	
	5949 Jun 10 00:44	0°♈	
	5949 Jul 29 09:29	0°♉	
retrograde	5949 Oct 13 08:51	27°♉27'51	
min. Earth dist.	5949 Nov 10 19:52	22°♉48'04	0.36938 AU
opposition	5949 Nov 12 17:54	22°♉17'08	-3°12'50
greatest brilliancy	5949 Nov 12 16:16	22°♉18'14	-3.0m
direct	5949 Dec 12 03:51	17°♉23'51	
asc. node	5949 Dec 26 18:49	18°♉48'07	
	5950 Jan 28 16:54	0°♊	
	5950 Mar 23 23:26	0°♋	
	5950 May 10 21:21	0°♌	
	5950 Jun 27 02:57	0°♍	
	5950 Aug 13 16:34	0°♎	
	5950 Sep 30 11:08	0°♏	
evening set	5950 Oct 14 15:31	8°♏55'59	
	5950 Nov 16 20:53	0°♐	
max. Earth dist.	5950 Nov 18 09:09	0°♐57'52	2.66885 AU
conjunction	5950 Nov 28 13:54	7°♐29'29	0°15'09
minimum elong	5950 Nov 28 14:21	7°♐30'13	0°15'10
behind sun begin	5950 Nov 28 08:26	7°♐20'44	
behind sun end	5950 Nov 28 20:16	7°♐39'42	
desc. node	5950 Dec 27 04:58	26°♐00'32	
	5951 Jan 02 07:30	0°♑	
morning rise	5951 Jan 11 17:00	6°♑10'24	
	5951 Feb 16 09:50	0°♒	
	5951 Apr 01 01:22	0°♓	
	5951 May 13 08:44	0°♈	
	5951 Jun 23 16:07	0°♉	
	5951 Aug 03 18:49	0°♊	
	5951 Sep 15 15:02	0°♋	
	5951 Nov 06 13:52	0°♌	
asc. node	5951 Nov 13 17:37	3°♌00'03	
retrograde	5951 Dec 16 18:35	10°♌03'48	
min. Earth dist.	5952 Jan 13 22:55	4°♌32'57	0.47104 AU
greatest brilliancy	5952 Jan 21 02:49	2°♌00'05	-2.3m
opposition	5952 Jan 22 07:38	1°♌34'15	3°45'04
	5952 Jan 26 19:26	30°℞♋	
direct	5952 Feb 24 11:41	24°♋40'15	
	5952 Mar 26 05:06	0°♌	
	5952 May 30 15:15	0°♍	
	5952 Jul 22 07:50	0°♎	
	5952 Sep 10 08:09	0°♏	
	5952 Oct 28 15:02	0°♐	
desc. node	5952 Nov 13 03:34	9°♐53'16	
evening set	5952 Nov 19 00:22	13°♐39'41	
max. Earth dist.	5952 Dec 11 22:14	28°♐35'28	2.60828 AU
	5952 Dec 14 01:28	0°♑	
conjunction	5953 Jan 03 22:39	13°♑56'05	-0°27'32
minimum elong	5953 Jan 03 21:45	13°♑54'35	0°27'29
	5953 Jan 27 11:11	0°♒	
morning rise	5953 Feb 20 12:14	16°♒50'29	
	5953 Mar 10 21:12	0°♓	
	5953 Apr 20 14:13	0°♈	
	5953 May 30 01:58	0°♉	

	5953 Jul 08 01:15	0°♊	
	5953 Aug 16 11:45	0°♋	
	5953 Sep 26 20:04	0°♌	
asc. node	5953 Sep 30 15:39	2°♌38'57	
	5953 Nov 12 02:11	0°♍	
retrograde	5954 Jan 28 10:02	28°♍12'15	
min. Earth dist.	5954 Mar 03 09:10	20°♍33'18	0.59724 AU
greatest brilliancy	5954 Mar 08 01:19	18°♍42'35	-1.6m
opposition	5954 Mar 09 00:29	18°♍19'42	4°52'08
direct	5954 Apr 15 09:42	9°♍43'13	
	5954 Jun 23 19:37	0°♎	
	5954 Aug 19 20:48	0°♏	
desc. node	5954 Oct 01 02:28	24°♏53'36	
	5954 Oct 09 10:30	0°♐	
	5954 Nov 25 13:05	0°♑	
evening set	5954 Dec 28 22:36	22°♑28'02	
	5955 Jan 08 19:29	0°♒	
max. Earth dist.	5955 Jan 12 15:07	2°♒40'19	2.49890 AU
conjunction	5955 Feb 18 00:34	28°♒48'44	-1°01'57
minimum elong	5955 Feb 17 23:26	28°♒46'39	1°01'56
	5955 Feb 19 15:20	0°♓	
	5955 Mar 31 13:23	0°♈	
morning rise	5955 Apr 17 02:58	12°♈45'47	
	5955 May 09 05:53	0°♉	
	5955 Jun 16 11:44	0°♊	
	5955 Jul 25 04:12	0°♋	
asc. node	5955 Aug 18 15:39	18°♋29'26	
	5955 Sep 03 06:25	0°♌	
	5955 Oct 15 22:03	0°♍	
	5955 Dec 02 06:29	0°♎	
	5956 Feb 03 20:43	0°♏	
retrograde	5956 Mar 04 04:58	4°♏51'03	
	5956 Mar 31 08:01	30°℞♎	
min. Earth dist.	5956 Apr 11 18:57	25°♎40'12	0.66864 AU
opposition	5956 Apr 13 14:37	24°♎56'34	3°45'18
greatest brilliancy	5956 Apr 13 09:04	25°♎02'06	-1.3m
direct	5956 May 23 17:46	15°♎24'08	
	5956 Jul 19 23:58	0°♏	
desc. node	5956 Aug 18 01:31	13°♏48'56	
	5956 Sep 16 16:58	0°♐	
	5956 Nov 04 22:28	0°♑	
	5956 Dec 19 17:05	0°♒	
	5957 Jan 30 09:43	0°♓	
evening set	5957 Feb 16 17:07	12°♓58'08	
	5957 Mar 10 22:49	0°♈	
max. Earth dist.	5957 Mar 27 05:14	12°♈39'51	2.37312 AU
	5957 Apr 18 05:59	0°♉	
conjunction	5957 Apr 21 01:49	2°♉14'00	-0°47'55
minimum elong	5957 Apr 21 05:05	2°♉20'29	0°47'55
	5957 May 26 04:57	0°♊	
morning rise	5957 Jul 02 07:59	28°♊56'15	
	5957 Jul 03 17:11	0°♋	
asc. node	5957 Jul 05 14:43	1°♋27'20	
	5957 Aug 12 14:29	0°♌	
	5957 Sep 23 14:24	0°♍	
	5957 Nov 07 11:34	0°♎	
	5957 Dec 26 18:59	0°♏	
	5958 Feb 27 01:45	0°♐	
retrograde	5958 Apr 07 12:56	7°♐52'44	
	5958 May 13 11:50	30°℞♏	
opposition	5958 May 17 10:41	28°♏27'01	1°41'35
greatest brilliancy	5958 May 17 14:01	28°♏23'44	-1.3m
min. Earth dist.	5958 May 19 10:53	27°♏39'25	0.67464 AU
direct	5958 Jun 27 21:10	18°♏27'14	
desc. node	5958 Jul 06 00:26	18°♏50'38	
	5958 Aug 16 00:34	0°♐	
	5958 Oct 13 07:29	0°♑	
	5958 Nov 29 04:10	0°♒	
	5959 Jan 10 09:44	0°♓	
	5959 Feb 18 23:51	0°♈	
	5959 Mar 29 05:25	0°♉	
evening set	5959 Apr 27 06:01	22°♉57'45	
	5959 May 06 04:22	0°♊	
asc. node	5959 May 23 12:45	13°♊34'38	
	5959 Jun 13 19:29	0°♋	
conjunction	5959 Jul 04 19:10	15°♋52'26	0°28'11
minimum elong	5959 Jul 04 16:56	15°♋48'16	0°28'07
	5959 Jul 23 21:29	0°♌	
max. Earth dist.	5959 Aug 20 20:33	20°♌06'27	2.47422 AU
	5959 Sep 03 23:25	0°♍	
morning rise	5959 Sep 04 13:18	0°♍24'05	
	5959 Oct 18 09:00	0°♎	
	5959 Dec 04 08:32	0°♏	
	5960 Jan 23 21:54	0°♐	
	5960 Mar 24 00:10	0°♑	
retrograde	5960 May 14 08:48	12°♑12'44	
desc. node	5960 May 22 22:44	11°♑44'58	
opposition	5960 Jun 21 12:54	3°♑39'22	-1°07'18
greatest brilliancy	5960 Jun 21 18:08	3°♑34'21	-1.6m
min. Earth dist.	5960 Jun 27 05:52	1°♑28'23	0.61526 AU
	5960 Jul 01 05:17	30°℞♐	
direct	5960 Aug 01 15:48	23°♐44'10	
	5960 Sep 04 05:52	0°♑	
	5960 Nov 03 04:18	0°♒	
	5960 Dec 18 01:55	0°♓	
	5961 Jan 27 14:15	0°♈	
	5961 Mar 07 06:59	0°♉	
asc. node	5961 Apr 09 12:26	26°♉00'22	
	5961 Apr 14 15:30	0°♊	
	5961 May 23 17:42	0°♋	
evening set	5961 Jul 03 15:01	0°♌12'08	
	5961 Jul 03 08:18	0°♌	
	5961 Aug 14 21:44	0°♍	
conjunction	5961 Aug 29 03:11	9°♍42'56	1°05'59
minimum elong	5961 Aug 29 02:28	9°♍41'43	1°05'59
max. Earth dist.	5961 Sep 23 14:48	26°♍46'35	2.59384 AU
	5961 Sep 28 12:02	0°♎	
morning rise	5961 Oct 18 14:19	13°♎07'19	
	5961 Nov 13 22:07	0°♏	
	5961 Dec 31 23:32	0°♐	
	5962 Feb 20 02:38	0°♑	
desc. node	5962 Apr 09 21:50	26°♑51'46	
	5962 Apr 16 03:33	0°♒	
retrograde	5962 Jul 01 20:34	23°♒59'56	
opposition	5962 Aug 05 15:45	16°♒57'35	-4°38'14
greatest brilliancy	5962 Aug 07 00:17	16°♒29'14	-2.1m
min. Earth dist.	5962 Aug 14 03:59	14°♒00'42	0.49795 AU
direct	5962 Sep 12 19:35	8°♒19'12	
	5962 Nov 15 21:54	0°♓	
	5963 Jan 01 06:11	0°♈	
	5963 Feb 11 06:20	0°♉	
asc. node	5963 Feb 25 11:58	10°♉42'09	
	5963 Mar 23 02:22	0°♊	
	5963 May 02 10:20	0°♋	
	5963 Jun 13 03:59	0°♌	
	5963 Jul 26 16:39	0°♍	
evening set	5963 Aug 22 14:54	17°♍58'10	
	5963 Sep 09 23:08	0°♎	
conjunction	5963 Oct 10 05:41	19°♎34'18	0°59'46

minimum elong	5963 Oct 10 06:40	19°♎35'53	0°59'46
max. Earth dist.	5963 Oct 18 18:59	25°♎03'10	2.66341 AU
	5963 Oct 26 12:53	0°♏	
morning rise	5963 Nov 24 13:23	18°♏26'31	
	5963 Dec 12 19:50	0°♐	
	5964 Jan 29 09:35	0°♑	
desc. node	5964 Feb 25 20:58	17°♑15'48	
	5964 Mar 17 05:41	0°♒	
	5964 May 04 23:53	0°♓	
	5964 Jun 26 04:11	0°♈	
retrograde	5964 Sep 10 19:38	25°♈57'43	
opposition	5964 Oct 10 22:16	20°♈57'58	-5°49'36
greatest brilliancy	5964 Oct 11 20:47	20°♈42'42	-2.9m
min. Earth dist.	5964 Oct 14 15:35	19°♈57'37	0.37824 AU
direct	5964 Nov 10 18:18	15°♈35'19	
	5964 Dec 30 22:09	0°♉	
asc. node	5965 Jan 12 10:09	6°♉36'38	
	5965 Feb 19 18:43	0°♊	
	5965 Apr 05 23:21	0°♋	
	5965 May 20 18:21	0°♌	
	5965 Jul 05 09:22	0°♍	
	5965 Aug 21 01:03	0°♎	
evening set	5965 Sep 30 09:49	25°♎37'07	
	5965 Oct 07 07:58	0°♏	
max. Earth dist.	5965 Nov 09 17:53	21°♏10'48	2.67815 AU
conjunction	5965 Nov 14 17:39	24°♏21'13	0°30'11
minimum elong	5965 Nov 14 18:29	24°♏22'32	0°30'12
	5965 Nov 23 14:19	0°♐	
morning rise	5965 Dec 28 13:53	22°♐27'23	
	5966 Jan 09 05:11	0°♑	
desc. node	5966 Jan 12 19:13	2°♑19'57	
	5966 Feb 23 19:28	0°♒	
	5966 Apr 09 06:51	0°♓	
	5966 May 22 17:39	0°♈	
	5966 Jul 04 13:55	0°♉	
	5966 Aug 17 02:05	0°♊	
	5966 Oct 05 07:09	0°♋	
retrograde	5966 Nov 25 05:04	15°♋18'57	
asc. node	5966 Nov 30 10:11	15°♋06'57	
min. Earth dist.	5966 Dec 21 13:34	10°♋37'20	0.41821 AU
opposition	5966 Dec 29 11:04	8°♋05'15	1°53'28
greatest brilliancy	5966 Dec 28 20:07	8°♋17'20	-2.7m
direct	5967 Jan 29 16:08	2°♋07'59	
	5967 Apr 20 01:11	0°♌	
	5967 Jun 11 19:14	0°♍	
	5967 Jul 31 17:20	0°♎	
	5967 Sep 18 15:03	0°♏	
evening set	5967 Nov 05 18:40	0°♐11'24	
	5967 Nov 05 11:29	0°♐	
desc. node	5967 Nov 30 17:39	16°♐12'02	
max. Earth dist.	5967 Dec 02 22:04	17°♐36'58	2.63830 AU
conjunction	5967 Dec 20 22:12	29°♐22'47	-0°10'53
minimum elong	5967 Dec 20 21:51	29°♐22'13	0°10'52
behind sun begin	5967 Dec 20 07:37	28°♐58'48	
behind sun end	5967 Dec 21 12:05	29°♐45'37	
	5967 Dec 21 20:48	0°♑	
morning rise	5968 Feb 04 13:18	0°♒02'46	
	5968 Feb 04 11:42	0°♒	
	5968 Mar 18 07:29	0°♓	
	5968 Apr 28 12:41	0°♈	
	5968 Jun 07 13:21	0°♉	
	5968 Jul 17 01:47	0°♊	
	5968 Aug 26 04:46	0°♋	
	5968 Oct 07 23:02	0°♌	
asc. node	5968 Oct 17 10:04	6°♌09'06	
	5968 Nov 29 01:42	0°♍	
retrograde	5969 Jan 12 20:29	11°♍39'11	
min. Earth dist.	5969 Feb 13 15:03	4°♍46'50	0.55247 AU
greatest brilliancy	5969 Feb 19 09:57	2°♍32'44	-1.9m
opposition	5969 Feb 20 15:15	2°♍04'24	4°51'06
	5969 Feb 26 03:37	30°℞♌	
direct	5969 Mar 28 12:26	24°♌01'10	
	5969 May 01 01:13	0°♍	
	5969 Jul 06 05:32	0°♎	
	5969 Aug 28 08:10	0°♏	
	5969 Oct 16 18:31	0°♐	
desc. node	5969 Oct 17 16:28	0°♐34'18	
	5969 Dec 02 12:55	0°♑	
evening set	5969 Dec 12 15:19	6°♑42'08	
max. Earth dist.	5969 Dec 29 20:09	18°♑18'17	2.54670 AU
	5970 Jan 15 19:33	0°♒	
conjunction	5970 Jan 30 00:54	9°♒59'09	-0°51'20
minimum elong	5970 Jan 29 23:28	9°♒56'36	0°51'17
	5970 Feb 26 20:06	0°♓	
morning rise	5970 Mar 23 19:34	18°♓30'40	
	5970 Apr 08 00:29	0°♈	
	5970 May 16 23:17	0°♉	
	5970 Jun 24 10:28	0°♊	
	5970 Aug 02 07:29	0°♋	
asc. node	5970 Sep 04 08:13	24°♋40'25	
	5970 Sep 11 16:12	0°♌	
	5970 Oct 25 00:53	0°♍	
	5970 Dec 14 04:11	0°♎	
retrograde	5971 Feb 19 17:31	21°♎30'31	
min. Earth dist.	5971 Mar 28 15:50	12°♎51'53	0.64820 AU
opposition	5971 Mar 31 23:55	11°♎31'54	4°19'53
greatest brilliancy	5971 Mar 31 11:58	11°♎43'51	-1.4m
direct	5971 May 10 05:27	2°♎17'30	
	5971 Aug 03 07:54	0°♏	
desc. node	5971 Sep 04 15:37	17°♏24'13	
	5971 Sep 26 08:17	0°♐	
	5971 Nov 13 11:54	0°♑	
	5971 Dec 27 23:54	0°♒	
evening set	5972 Jan 27 00:15	21°♒24'47	
	5972 Feb 07 16:59	0°♓	
max. Earth dist.	5972 Feb 12 14:48	3°♓38'36	2.41748 AU
	5972 Mar 18 08:46	0°♈	
conjunction	5972 Mar 24 17:03	4°♈54'21	-1°03'05
minimum elong	5972 Mar 24 18:28	4°♈57'07	1°03'05
	5972 Apr 25 18:42	0°♉	
morning rise	5972 Jun 01 05:28	28°♉45'23	
	5972 Jun 02 19:24	0°♊	
	5972 Jul 11 08:00	0°♋	
asc. node	5972 Jul 22 06:50	8°♋21'55	
	5972 Aug 20 05:23	0°♌	
	5972 Oct 01 07:55	0°♍	
	5972 Nov 15 17:52	0°♎	
	5973 Jan 06 07:18	0°♏	
retrograde	5973 Mar 25 01:27	25°♏19'22	
opposition	5973 May 04 07:17	15°♏39'49	2°34'51
greatest brilliancy	5973 May 04 08:45	15°♏38'22	-1.3m
min. Earth dist.	5973 May 04 19:35	15°♏27'36	0.68011 AU
direct	5973 Jun 14 09:45	5°♏47'51	
desc. node	5973 Jul 22 14:56	13°♏06'33	
	5973 Aug 30 14:30	0°♐	
	5973 Oct 22 10:14	0°♑	
	5973 Dec 07 04:20	0°♒	
	5974 Jan 18 02:49	0°♓	
	5974 Feb 26 15:31	0°♈	
evening set	5974 Mar 29 03:08	23°♈52'55	

	5974 Apr 05 20:54	0°♉	
	5974 May 13 18:59	0°♊	
conjunction	5974 Jun 06 20:30	18°♊49'52	-0°01'44
minimum elong	5974 Jun 06 20:43	18°♊50'17	0°01'46
behind sun begin	5974 Jun 05 15:08	17°♊52'52	
behind sun end	5974 Jun 08 02:18	19°♊47'39	
asc. node	5974 Jun 09 06:23	20°♊42'05	
	5974 Jun 21 07:48	0°♋	
max. Earth dist.	5974 Jul 29 11:18	28°♋40'36	2.41870 AU
	5974 Jul 31 06:32	0°♌	
morning rise	5974 Aug 13 13:00	9°♌39'39	
	5974 Sep 11 05:47	0°♍	
	5974 Oct 25 16:35	0°♎	
	5974 Dec 12 05:11	0°♏	
	5975 Feb 02 23:10	0°♐	
retrograde	5975 Apr 29 20:40	28°♐33'54	
opposition	5975 Jun 07 21:15	19°♐36'41	0°03'44
greatest brilliancy	5975 Jun 07 21:36	19°♐36'20	-1.5m
desc. node	5975 Jun 09 14:07	18°♐56'54	
min. Earth dist.	5975 Jun 12 04:13	17°♐56'36	0.64612 AU
direct	5975 Jul 19 08:53	9°♐34'32	
	5975 Sep 24 12:00	0°♑	
	5975 Nov 14 14:36	0°♒	
	5975 Dec 27 23:50	0°♓	
	5976 Feb 05 23:35	0°♈	
	5976 Mar 15 09:52	0°♉	
	5976 Apr 22 13:06	0°♊	
asc. node	5976 Apr 26 04:35	2°♊50'58	
	5976 May 31 09:30	0°♋	
evening set	5976 Jun 09 05:53	6°♋41'34	
	5976 Jul 10 17:43	0°♌	
conjunction	5976 Aug 09 12:37	21°♌16'32	0°57'59
minimum elong	5976 Aug 09 10:48	21°♌13'21	0°57'56
	5976 Aug 22 01:09	0°♍	
max. Earth dist.	5976 Sep 11 23:58	14°♍19'18	2.55235 AU
morning rise	5976 Oct 02 12:01	28°♍01'42	
	5976 Oct 05 11:40	0°♎	
	5976 Nov 20 23:52	0°♏	
	5977 Jan 08 16:36	0°♐	
	5977 Mar 01 21:46	0°♑	
desc. node	5977 Apr 26 12:24	26°♑28'26	
	5977 May 06 11:55	0°♒	
retrograde	5977 Jun 10 22:37	6°♒24'08	
	5977 Jul 13 14:19	30°℞♑	
opposition	5977 Jul 17 07:30	28°♑39'31	-3°13'14
greatest brilliancy	5977 Jul 18 03:53	28°♑20'50	-1.9m
min. Earth dist.	5977 Jul 24 23:59	25°♑50'59	0.54956 AU
direct	5977 Aug 26 02:16	19°♑17'05	
	5977 Oct 08 19:20	0°♒	
	5977 Nov 30 20:35	0°♓	
	5978 Jan 12 10:00	0°♈	
	5978 Feb 21 01:13	0°♉	
asc. node	5978 Mar 14 04:03	16°♉15'23	
	5978 Apr 01 01:24	0°♊	
	5978 May 10 17:35	0°♋	
	5978 Jun 20 21:33	0°♌	
	5978 Aug 02 22:51	0°♍	
evening set	5978 Aug 04 21:33	1°♍19'29	
	5978 Sep 16 21:10	0°♎	
conjunction	5978 Sep 24 21:42	5°♎14'39	1°05'49
minimum elong	5978 Sep 24 22:17	5°♎15'36	1°05'50
max. Earth dist.	5978 Oct 09 12:06	14°♎43'02	2.64267 AU
	5978 Nov 02 07:39	0°♏	
morning rise	5978 Nov 10 16:48	5°♏20'10	
	5978 Dec 19 18:58	0°♐	
	5979 Feb 06 01:30	0°♑	
desc. node	5979 Mar 14 11:15	22°♑09'51	
	5979 Mar 27 14:23	0°♒	
	5979 May 19 17:06	0°♓	
retrograde	5979 Aug 11 07:49	28°♓20'46	
opposition	5979 Sep 11 23:49	22°♓39'02	-6°17'45
greatest brilliancy	5979 Sep 13 16:28	22°♓08'08	-2.6m
min. Earth dist.	5979 Sep 19 10:09	20°♓24'19	0.41633 AU
direct	5979 Oct 16 02:29	15°♓54'39	
	5979 Dec 03 21:06	0°♈	
	5980 Jan 22 07:21	0°♉	
asc. node	5980 Jan 30 04:14	5°♉21'35	
	5980 Mar 05 07:05	0°♊	
	5980 Apr 16 13:06	0°♋	
	5980 May 29 15:55	0°♌	
	5980 Jul 13 05:17	0°♍	
	5980 Aug 28 04:41	0°♎	
evening set	5980 Sep 15 15:45	11°♎51'11	
	5980 Oct 14 02:54	0°♏	
conjunction	5980 Oct 31 20:34	11°♏16'03	0°43'32
minimum elong	5980 Oct 31 21:37	11°♏17'44	0°43'33
max. Earth dist.	5980 Oct 31 23:48	11°♏21'12	2.67895 AU
	5980 Nov 30 07:53	0°♐	
morning rise	5980 Dec 14 21:49	9°♐17'41	
	5981 Jan 16 05:08	0°♑	
desc. node	5981 Jan 29 09:53	8°♑30'54	
	5981 Mar 03 11:10	0°♒	
	5981 Apr 18 01:52	0°♓	
	5981 Jun 02 07:42	0°♈	
	5981 Jul 18 04:07	0°♉	
	5981 Sep 07 02:00	0°♊	
retrograde	5981 Oct 30 02:29	15°♊52'42	
min. Earth dist.	5981 Nov 25 21:06	11°♊28'46	0.37937 AU
opposition	5981 Nov 30 17:29	10°♊06'13	-1°11'57
greatest brilliancy	5981 Nov 30 13:32	10°♊09'01	-3.0m
asc. node	5981 Dec 17 03:28	6°♊09'03	
direct	5981 Dec 30 07:01	4°♊59'56	
	5982 Mar 13 09:24	0°♋	
	5982 May 03 19:11	0°♌	
	5982 Jun 21 08:57	0°♍	
	5982 Aug 08 14:23	0°♎	
	5982 Sep 25 17:00	0°♏	
evening set	5982 Oct 22 17:04	16°♏58'10	
	5982 Nov 12 06:11	0°♐	
max. Earth dist.	5982 Nov 23 15:22	7°♐16'39	2.66030 AU
conjunction	5982 Dec 06 14:17	15°♐37'02	0°05'47
minimum elong	5982 Dec 06 14:28	15°♐37'19	0°05'49
behind sun begin	5982 Dec 05 20:52	15°♐08'54	
behind sun end	5982 Dec 07 08:04	16°♐05'45	
desc. node	5982 Dec 17 07:49	22°♐34'45	
	5982 Dec 28 16:20	0°♑	
morning rise	5983 Jan 20 02:03	14°♑49'42	
	5983 Feb 11 14:35	0°♒	
	5983 Mar 26 22:45	0°♓	
	5983 May 07 19:40	0°♈	
	5983 Jun 17 13:56	0°♉	
	5983 Jul 27 22:47	0°♊	
	5983 Sep 07 08:52	0°♋	
	5983 Oct 23 14:29	0°♌	
asc. node	5983 Nov 04 01:53	6°♌19'31	
retrograde	5983 Dec 27 13:58	22°♌42'06	
min. Earth dist.	5984 Jan 26 01:17	16°♌41'23	0.50113 AU
greatest brilliancy	5984 Feb 01 19:21	14°♌11'32	-2.1m
opposition	5984 Feb 03 02:45	13°♌42'21	4°21'39

direct	5984 Mar 08 06:37	6°♌20'53	
	5984 May 21 22:27	0°♍	
	5984 Jul 16 07:49	0°♎	
	5984 Sep 05 05:28	0°♏	
	5984 Oct 23 21:08	0°♐	
desc. node	5984 Nov 03 06:46	6°♐35'07	
evening set	5984 Nov 27 09:45	22°♐06'57	
	5984 Dec 09 10:23	0°♑	
max. Earth dist.	5984 Dec 18 03:04	5°♑45'53	2.58836 AU
conjunction	5985 Jan 13 00:20	23°♑15'09	-0°36'52
minimum elong	5985 Jan 12 23:09	23°♑13'08	0°36'50
	5985 Jan 22 19:17	0°♒	
morning rise	5985 Mar 03 01:40	27°♒48'28	
	5985 Mar 06 02:18	0°♓	
	5985 Apr 15 15:00	0°♈	
	5985 May 24 21:57	0°♉	
	5985 Jul 02 16:20	0°♊	
	5985 Aug 10 20:25	0°♋	
	5985 Sep 20 16:36	0°♌	
asc. node	5985 Sep 21 01:39	0°♌16'03	
	5985 Nov 04 09:50	0°♍	
	5986 Jan 01 04:55	0°♎	
retrograde	5986 Feb 05 17:51	7°♎18'55	
	5986 Mar 11 00:27	30°℞♍	
min. Earth dist.	5986 Mar 12 20:00	29°♍17'22	0.61796 AU
opposition	5986 Mar 17 16:17	27°♍21'55	4°44'23
greatest brilliancy	5986 Mar 16 21:06	27°♍40'58	-1.5m
direct	5986 Apr 24 19:11	18°♍30'17	
	5986 Jun 13 05:37	0°♎	
	5986 Aug 13 17:55	0°♏	
desc. node	5986 Sep 21 06:27	22°♏07'51	
	5986 Oct 04 07:43	0°♐	
	5986 Nov 20 18:33	0°♑	
	5987 Jan 04 03:02	0°♒	
evening set	5987 Jan 07 22:13	2°♒39'31	
max. Earth dist.	5987 Jan 22 01:49	12°♒40'51	2.47008 AU
	5987 Feb 14 22:11	0°♓	
conjunction	5987 Mar 02 00:22	11°♓13'15	-1°05'11
minimum elong	5987 Mar 01 23:50	11°♓12'15	1°05'11
	5987 Mar 26 18:10	0°♈	
morning rise	5987 May 02 18:41	28°♈46'16	
	5987 May 04 08:17	0°♉	
	5987 Jun 11 12:10	0°♊	
	5987 Jul 20 02:42	0°♋	
asc. node	5987 Aug 08 23:53	15°♋05'41	
	5987 Aug 29 01:57	0°♌	
	5987 Oct 10 10:29	0°♍	
	5987 Nov 25 19:04	0°♎	
	5988 Jan 21 03:33	0°♏	
retrograde	5988 Mar 11 18:48	12°♏40'44	
min. Earth dist.	5988 Apr 20 04:48	3°♏14'19	0.67557 AU
opposition	5988 Apr 21 04:36	2°♏50'34	3°21'25
greatest brilliancy	5988 Apr 21 02:03	2°♏53'07	-1.3m
	5988 Apr 28 11:10	30°℞♎	
direct	5988 May 31 17:52	23°♎10'07	
	5988 Jul 07 16:05	0°♏	
desc. node	5988 Aug 08 05:30	12°♏51'58	
	5988 Sep 10 11:38	0°♐	
	5988 Oct 30 17:53	0°♑	
	5988 Dec 14 20:14	0°♒	
	5989 Jan 25 15:06	0°♓	
evening set	5989 Mar 02 08:22	27°♓02'49	
	5989 Mar 06 04:02	0°♈	
	5989 Apr 13 10:14	0°♉	
conjunction	5989 May 07 19:28	19°♉18'22	-0°33'16
minimum elong	5989 May 07 22:33	19°♉24'28	0°33'16
	5989 May 21 08:25	0°♊	
max. Earth dist.	5989 Jun 08 11:52	14°♊14'23	2.37127 AU
asc. node	5989 Jun 25 21:56	27°♊45'02	
	5989 Jun 28 20:05	0°♋	
morning rise	5989 Jul 18 18:43	15°♋10'16	
	5989 Aug 07 16:51	0°♌	
	5989 Sep 18 15:14	0°♍	
	5989 Nov 02 06:18	0°♎	
	5989 Dec 20 16:33	0°♏	
	5990 Feb 15 15:12	0°♐	
retrograde	5990 Apr 15 10:48	15°♐36'24	
opposition	5990 May 25 02:31	6°♐19'48	1°07'25
greatest brilliancy	5990 May 25 05:39	6°♐16'43	-1.4m
min. Earth dist.	5990 May 27 22:13	5°♐13'19	0.66740 AU
	5990 Jun 11 13:41	30°℞♏	
desc. node	5990 Jun 26 04:01	26°♏52'00	
direct	5990 Jul 05 15:32	26°♏17'49	
	5990 Jul 31 15:38	0°♐	
	5990 Oct 06 16:59	0°♑	
	5990 Nov 23 17:02	0°♒	
	5991 Jan 05 07:23	0°♓	
	5991 Feb 14 00:42	0°♈	
greatest brilliancy	5991 Mar 09 06:59	18°♈09'08	1.2m
	5991 Mar 24 07:33	0°♉	
	5991 May 01 07:22	0°♊	
evening set	5991 May 13 15:13	9°♊39'16	
asc. node	5991 May 13 22:04	9°♊52'38	
	5991 Jun 08 23:20	0°♋	
conjunction	5991 Jul 19 00:44	29°♋57'19	0°41'39
minimum elong	5991 Jul 18 22:13	29°♋52'42	0°41'36
	5991 Jul 19 02:12	0°♌	
max. Earth dist.	5991 Aug 30 08:39	0°♍06'44	2.50350 AU
	5991 Aug 30 04:46	0°♍	
morning rise	5991 Sep 15 17:14	11°♍21'33	
	5991 Oct 13 13:04	0°♎	
	5991 Nov 29 06:28	0°♏	
	5992 Jan 17 22:37	0°♐	
	5992 Mar 13 20:46	0°♑	
desc. node	5992 May 13 02:36	20°♑15'07	
retrograde	5992 May 23 19:40	20°♑55'12	
opposition	5992 Jun 30 10:30	12°♑37'19	-1°51'41
greatest brilliancy	5992 Jun 30 20:20	12°♑28'02	-1.7m
min. Earth dist.	5992 Jul 06 21:39	10°♑10'57	0.59421 AU
direct	5992 Aug 10 05:24	2°♑50'19	
	5992 Oct 26 08:05	0°♒	
	5992 Dec 11 22:17	0°♓	
	5993 Jan 21 23:47	0°♈	
	5993 Mar 01 22:47	0°♉	
asc. node	5993 Mar 30 21:44	22°♉33'54	
	5993 Apr 09 11:40	0°♊	
	5993 May 18 17:34	0°♋	
	5993 Jun 28 11:25	0°♌	
evening set	5993 Jul 16 00:07	12°♌29'40	
	5993 Aug 10 03:41	0°♍	
conjunction	5993 Sep 08 07:15	19°♍43'27	1°07'29
minimum elong	5993 Sep 08 07:06	19°♍43'12	1°07'29
	5993 Sep 23 19:22	0°♎	
max. Earth dist.	5993 Sep 29 18:18	3°♎54'35	2.61329 AU
morning rise	5993 Oct 27 06:06	21°♎44'05	
	5993 Nov 09 04:18	0°♏	
	5993 Dec 26 22:55	0°♐	
	5994 Feb 14 05:52	0°♑	
desc. node	5994 Mar 31 01:09	25°♑52'20	

	5994 Apr 07 13:48	0°♒	
	5994 Jun 12 13:03	0°♓	
retrograde	5994 Jul 15 05:28	5°♓37'59	
	5994 Aug 15 01:53	30°℞♒	
opposition	5994 Aug 17 23:00	29°♒03'08	-5°23'17
greatest brilliancy	5994 Aug 19 13:41	28°♒30'49	-2.3m
min. Earth dist.	5994 Aug 26 13:43	26°♒11'13	0.46800 AU
direct	5994 Sep 23 22:17	20°♒59'03	
	5994 Nov 01 06:39	0°♓	
	5994 Dec 23 23:33	0°♈	
	5995 Feb 04 11:12	0°♉	
asc. node	5995 Feb 15 20:02	8°♉21'33	
	5995 Mar 17 00:42	0°♊	
	5995 Apr 26 20:28	0°♋	
	5995 Jun 07 22:57	0°♌	
	5995 Jul 21 18:31	0°♍	
evening set	5995 Sep 01 00:51	27°♍16'09	
	5995 Sep 05 05:35	0°♎	
conjunction	5995 Oct 18 15:11	27°♎55'13	0°54'36
minimum elong	5995 Oct 18 16:15	27°♎56'57	0°54'37
	5995 Oct 21 21:24	0°♏	
max. Earth dist.	5995 Oct 24 00:52	1°♏22'03	2.67121 AU
morning rise	5995 Dec 02 08:59	26°♏21'32	
	5995 Dec 08 02:49	0°♐	
	5996 Jan 24 09:26	0°♑	
desc. node	5996 Feb 15 23:53	14°♑22'16	
	5996 Mar 11 13:27	0°♒	
	5996 Apr 27 21:31	0°♓	
	5996 Jun 15 10:57	0°♈	
	5996 Aug 09 06:04	0°♉	
retrograde	5996 Sep 29 08:36	13°♉48'55	
opposition	5996 Oct 29 05:30	8°♉52'08	-4°35'09
greatest brilliancy	5996 Oct 29 13:07	8°♉47'06	-3.0m
min. Earth dist.	5996 Oct 29 22:45	8°♉40'44	0.36902 AU
direct	5996 Nov 27 23:11	3°♉54'40	
asc. node	5997 Jan 02 19:38	11°♉40'45	
	5997 Feb 08 15:43	0°♊	
	5997 Mar 29 08:24	0°♋	
	5997 May 14 14:03	0°♌	
	5997 Jun 29 23:54	0°♍	
	5997 Aug 16 02:21	0°♎	
	5997 Oct 02 15:13	0°♏	
evening set	5997 Oct 08 14:32	3°♏46'06	
max. Earth dist.	5997 Nov 14 20:09	27°♏21'37	2.67401 AU
	5997 Nov 18 23:34	0°♐	
conjunction	5997 Nov 22 15:43	2°♐20'41	0°21'34
minimum elong	5997 Nov 22 16:21	2°♐21'42	0°21'35
desc. node	5998 Jan 02 22:38	28°♐58'30	
	5998 Jan 04 12:21	0°♑	
morning rise	5998 Jan 05 14:19	0°♑42'22	
	5998 Feb 18 20:24	0°♒	
	5998 Apr 03 20:48	0°♓	
	5998 May 16 15:48	0°♈	
	5998 Jun 27 13:32	0°♉	
	5998 Aug 08 11:58	0°♊	
	5998 Sep 22 00:32	0°♋	
asc. node	5998 Nov 20 19:20	28°♋15'26	
	5998 Dec 01 11:37	0°♌	
retrograde	5998 Dec 07 20:04	0°♌17'51	
	5998 Dec 14 02:40	30°℞♋	
min. Earth dist.	5999 Jan 04 02:45	25°♋10'11	0.44669 AU
greatest brilliancy	5999 Jan 11 10:22	22°♋40'01	-2.5m
opposition	5999 Jan 12 10:59	22°♋18'48	3°06'05
direct	5999 Feb 13 18:10	15°♋49'23	
	5999 Apr 08 03:24	0°♌	
	5999 Jun 04 21:06	0°♍	
	5999 Jul 26 04:45	0°♎	
	5999 Sep 13 16:49	0°♏	
	5999 Oct 31 19:35	0°♐	
evening set	5999 Nov 13 20:44	8°♐18'44	
desc. node	5999 Nov 20 21:23	12°♐49'23	
max. Earth dist.	5999 Dec 08 13:23	24°♐17'08	2.62270 AU
	5999 Dec 17 06:19	0°♑	
conjunction	5999 Dec 29 08:59	8°♑01'38	-0°20'36
minimum elong	5999 Dec 29 08:18	8°♑00'30	0°20'34
	6000 Jan 30 19:18	0°♒	
morning rise	6000 Feb 13 23:16	9°♒49'32	
	6000 Mar 13 10:24	0°♓	
	6000 Apr 23 09:19	0°♈	
	6000 Jun 02 02:42	0°♉	
	6000 Jul 11 07:16	0°♊	
	6000 Aug 19 23:14	0°♋	
	6000 Sep 30 17:35	0°♌	
asc. node	6000 Oct 07 17:12	4°♌44'47	
	6000 Nov 17 12:05	0°♍	
retrograde	6001 Jan 21 21:16	21°♍47'44	
min. Earth dist.	6001 Feb 23 21:50	14°♍29'03	0.57838 AU
greatest brilliancy	6001 Mar 01 02:32	12°♍27'04	-1.7m
opposition	6001 Mar 02 04:43	12°♍01'25	4°54'40
direct	6001 Apr 07 23:13	3°♍38'46	
	6001 Jun 28 14:16	0°♎	
	6001 Aug 22 18:03	0°♏	
desc. node	6001 Oct 07 20:28	27°♏31'56	
	6001 Oct 11 20:20	0°♐	
	6001 Nov 27 20:27	0°♑	
evening set	6001 Dec 21 17:40	15°♑57'02	
max. Earth dist.	6002 Jan 06 08:36	26°♑39'10	2.52112 AU
	6002 Jan 11 04:18	0°♒	
conjunction	6002 Feb 09 11:34	20°♒47'15	-0°58'05
minimum elong	6002 Feb 09 10:13	20°♒44'49	0°58'03
	6002 Feb 22 03:24	0°♓	
	6002 Apr 03 05:06	0°♈	
morning rise	6002 Apr 05 23:58	2°♈07'41	
	6002 May 12 00:38	0°♉	
	6002 Jun 19 08:37	0°♊	
	6002 Jul 28 02:13	0°♋	
asc. node	6002 Aug 25 16:46	21°♋32'16	
	6002 Sep 06 05:24	0°♌	
	6002 Oct 19 01:13	0°♍	
	6002 Dec 06 04:11	0°♎	
retrograde	6003 Feb 27 11:32	29°♎43'00	
min. Earth dist.	6003 Apr 06 09:04	20°♎46'00	0.66084 AU
opposition	6003 Apr 08 21:08	19°♎46'00	4°00'50
greatest brilliancy	6003 Apr 08 12:53	19°♎54'14	-1.4m
direct	6003 May 18 16:03	10°♎20'59	
	6003 Jul 26 05:21	0°♏	
desc. node	6003 Aug 25 19:32	15°♏27'42	
	6003 Sep 20 16:46	0°♐	
	6003 Nov 08 12:04	0°♑	
	6003 Dec 23 05:15	0°♒	
	6004 Feb 02 23:21	0°♓	
evening set	6004 Feb 07 21:29	3°♓39'07	
max. Earth dist.	6004 Mar 02 06:53	21°♓18'15	2.39050 AU
	6004 Mar 13 14:34	0°♈	
conjunction	6004 Apr 08 15:40	20°♈18'02	-0°56'15
minimum elong	6004 Apr 08 18:21	20°♈23'17	0°56'15
	6004 Apr 20 23:18	0°♉	
	6004 May 28 22:55	0°♊	
morning rise	6004 Jun 18 20:52	16°♊23'41	

	6004 Jul 06 10:39	0°♋	
asc. node	6004 Jul 12 16:17	4°♋46'46	
	6004 Aug 15 06:37	0°♌	
	6004 Sep 26 05:49	0°♍	
	6004 Nov 10 05:25	0°♎	
	6004 Dec 30 04:34	0°♏	
	6005 Mar 09 13:07	0°♐	
retrograde	6005 Apr 01 17:26	2°♐59'48	
	6005 Apr 23 06:35	30°℞♏	
opposition	6005 May 11 19:53	23°♏27'24	2°04'24
greatest brilliancy	6005 May 11 22:38	23°♏24'40	-1.3m
min. Earth dist.	6005 May 13 03:58	22°♏55'39	0.67838 AU
direct	6005 Jun 22 04:12	13°♏30'38	
desc. node	6005 Jul 12 18:24	15°♏51'53	
	6005 Aug 21 23:15	0°♐	
	6005 Oct 16 14:12	0°♑	
	6005 Dec 02 00:27	0°♒	
	6006 Jan 13 04:08	0°♓	
	6006 Feb 21 18:27	0°♈	
	6006 Apr 01 00:07	0°♉	
evening set	6006 Apr 14 08:31	10°♉34'14	
	6006 May 08 22:25	0°♊	
asc. node	6006 May 30 14:23	16°♊57'37	
	6006 Jun 16 11:49	0°♋	
conjunction	6006 Jun 22 23:42	4°♋57'45	0°16'07
minimum elong	6006 Jun 22 22:12	4°♋54'55	0°16'03
	6006 Jul 26 11:07	0°♌	
max. Earth dist.	6006 Aug 12 11:09	12°♌20'31	2.44952 AU
morning rise	6006 Aug 26 09:44	22°♌16'14	
	6006 Sep 06 10:26	0°♍	
	6006 Oct 20 18:39	0°♎	
	6006 Dec 06 21:25	0°♏	
	6007 Jan 27 03:14	0°♐	
	6007 Apr 01 23:38	0°♑	
retrograde	6007 May 08 12:41	6°♑44'23	
desc. node	6007 May 30 16:53	3°♑38'15	
	6007 Jun 10 19:53	30°℞♐	
opposition	6007 Jun 16 03:03	27°♐59'37	-0°36'42
greatest brilliancy	6007 Jun 16 05:35	27°♐57'10	-1.5m
min. Earth dist.	6007 Jun 21 05:08	26°♐02'02	0.63036 AU
direct	6007 Jul 27 11:27	18°♐00'21	
	6007 Sep 14 03:08	0°♑	
	6007 Nov 08 04:45	0°♒	
	6007 Dec 22 10:14	0°♓	
	6008 Jan 31 17:33	0°♈	
	6008 Mar 10 07:20	0°♉	
asc. node	6008 Apr 16 13:44	29°♉14'42	
	6008 Apr 17 12:57	0°♊	
	6008 May 26 11:36	0°♋	
evening set	6008 Jun 23 09:59	20°♋52'04	
	6008 Jul 05 21:57	0°♌	
	6008 Aug 17 07:21	0°♍	
conjunction	6008 Aug 20 23:00	2°♍31'02	1°03'29
minimum elong	6008 Aug 20 21:50	2°♍29'01	1°03'28
max. Earth dist.	6008 Sep 18 22:25	22°♍08'40	2.57626 AU
	6008 Sep 30 18:30	0°♎	
morning rise	6008 Oct 11 20:39	7°♎16'44	
	6008 Nov 16 04:11	0°♏	
	6009 Jan 03 10:23	0°♐	
	6009 Feb 23 06:31	0°♑	
desc. node	6009 Apr 16 15:51	27°♑29'28	
	6009 Apr 22 03:35	0°♒	
retrograde	6009 Jun 22 09:02	16°♒34'16	
opposition	6009 Jul 27 22:30	9°♒11'56	-4°01'59
greatest brilliancy	6009 Jul 29 01:49	8°♒47'33	-2.0m
min. Earth dist.	6009 Aug 05 04:05	6°♒16'14	0.52170 AU
direct	6009 Sep 04 22:25	0°♒11'10	
	6009 Nov 22 10:37	0°♓	
	6010 Jan 05 18:37	0°♈	
	6010 Feb 15 02:16	0°♉	
asc. node	6010 Mar 04 13:39	13°♉17'53	
	6010 Mar 26 12:01	0°♊	
	6010 May 05 11:31	0°♋	
	6010 Jun 15 21:18	0°♌	
	6010 Jul 29 03:22	0°♍	
evening set	6010 Aug 15 04:23	11°♍28'47	
	6010 Sep 12 04:49	0°♎	
conjunction	6010 Oct 03 18:22	14°♎00'40	1°02'45
minimum elong	6010 Oct 03 19:12	14°♎02'02	1°02'46
max. Earth dist.	6010 Oct 14 23:36	21°♎14'05	2.65513 AU
	6010 Oct 28 16:16	0°♏	
morning rise	6010 Nov 18 16:15	13°♏21'21	
	6010 Dec 15 00:28	0°♐	
	6011 Jan 31 20:40	0°♑	
desc. node	6011 Mar 04 15:09	19°♑43'39	
	6011 Mar 21 08:20	0°♒	
	6011 May 10 14:02	0°♓	
	6011 Jul 06 19:41	0°♈	
retrograde	6011 Aug 28 12:48	13°♈45'18	
opposition	6011 Sep 28 06:25	8°♈30'34	-6°16'15
greatest brilliancy	6011 Sep 29 15:27	8°♈07'03	-2.8m
min. Earth dist.	6011 Oct 03 23:51	6°♈53'28	0.39242 AU
direct	6011 Oct 30 11:06	2°♈34'45	
	6012 Jan 11 10:46	0°♉	
asc. node	6012 Jan 20 11:36	5°♉34'07	
	6012 Feb 26 11:53	0°♊	
	6012 Apr 10 02:16	0°♋	
	6012 May 24 00:09	0°♌	
	6012 Jul 08 01:52	0°♍	
	6012 Aug 23 08:58	0°♎	
evening set	6012 Sep 24 03:50	20°♎16'33	
	6012 Oct 09 11:28	0°♏	
max. Earth dist.	6012 Nov 06 02:46	17°♏32'07	2.67962 AU
conjunction	6012 Nov 08 19:20	19°♏14'39	0°35'58
minimum elong	6012 Nov 08 20:17	19°♏16'09	0°36'00
	6012 Nov 25 17:05	0°♐	
morning rise	6012 Dec 22 16:24	17°♐15'06	
	6013 Jan 11 10:57	0°♑	
desc. node	6013 Jan 19 13:24	5°♑15'08	
	6013 Feb 26 08:25	0°♒	
	6013 Apr 12 07:18	0°♓	
	6013 May 26 11:12	0°♈	
	6013 Jul 09 08:33	0°♉	
	6013 Aug 23 20:44	0°♊	
	6013 Oct 22 21:06	0°♋	
retrograde	6013 Nov 14 11:49	3°♋27'13	
asc. node	6013 Dec 07 11:20	29°♊53'25	
	6013 Dec 07 01:51	30°℞♊	
min. Earth dist.	6013 Dec 10 14:13	28°♊59'31	0.39810 AU
opposition	6013 Dec 17 12:21	26°♊53'39	0°41'51
greatest brilliancy	6013 Dec 17 07:15	26°♊57'32	-2.8m
direct	6014 Jan 16 20:49	21°♊21'47	
	6014 Feb 25 04:46	0°♋	
	6014 Apr 25 16:47	0°♌	
	6014 Jun 15 06:15	0°♍	
	6014 Aug 03 08:26	0°♎	
	6014 Sep 20 21:23	0°♏	
evening set	6014 Oct 30 17:55	25°♏00'10	
	6014 Nov 07 14:55	0°♐	
max. Earth dist.	6014 Nov 28 23:18	13°♐40'25	2.64922 AU

desc. node	6014 Dec 07 11:36	19°♐10'47	
conjunction	6014 Dec 14 17:00	23°♐52'51	-0°03'56
minimum elong	6014 Dec 14 16:54	23°♐52'40	0°03'53
behind sun begin	6014 Dec 13 22:31	23°♐22'43	
behind sun end	6014 Dec 15 11:16	24°♐22'38	
	6014 Dec 24 01:15	0°♑	
morning rise	6015 Jan 28 17:50	23°♑48'31	
	6015 Feb 06 20:20	0°♒	
	6015 Mar 21 22:15	0°♓	
	6015 May 02 10:57	0°♈	
	6015 Jun 11 19:11	0°♉	
	6015 Jul 21 15:31	0°♊	
	6015 Aug 31 04:46	0°♋	
	6015 Oct 13 22:22	0°♌	
asc. node	6015 Oct 25 11:43	7°♌09'29	
	6015 Dec 12 02:00	0°♍	
retrograde	6016 Jan 06 15:16	4°♍16'49	
	6016 Jan 31 03:06	30°℞♌	
min. Earth dist.	6016 Feb 06 09:11	27°♌47'34	0.53007 AU
opposition	6016 Feb 13 22:40	24°♌55'11	4°43'23
greatest brilliancy	6016 Feb 12 15:33	25°♌24'49	-2.0m
direct	6016 Mar 20 02:19	17°♌09'37	
	6016 May 10 19:07	0°♍	
	6016 Jul 09 20:39	0°♎	
	6016 Aug 30 22:51	0°♏	
	6016 Oct 19 01:35	0°♐	
desc. node	6016 Oct 24 10:32	3°♐22'29	
	6016 Dec 04 18:42	0°♑	
evening set	6016 Dec 05 23:42	0°♑47'49	
max. Earth dist.	6016 Dec 24 14:44	13°♑13'06	2.56623 AU
	6017 Jan 18 03:35	0°♒	
conjunction	6017 Jan 22 11:22	3°♒00'33	-0°45'33
minimum elong	6017 Jan 22 10:00	2°♒58'10	0°45'31
	6017 Mar 01 07:55	0°♓	
morning rise	6017 Mar 14 09:43	9°♓35'10	
	6017 Apr 10 16:47	0°♈	
	6017 May 19 19:31	0°♉	
	6017 Jun 27 09:40	0°♊	
	6017 Aug 05 09:01	0°♋	
asc. node	6017 Sep 11 10:08	27°♋31'16	
	6017 Sep 14 20:36	0°♌	
	6017 Oct 28 14:20	0°♍	
	6017 Dec 19 15:08	0°♎	
retrograde	6018 Feb 13 19:44	16°♎02'18	
min. Earth dist.	6018 Mar 21 23:12	7°♎39'47	0.63583 AU
opposition	6018 Mar 25 23:44	6°♎03'39	4°31'43
greatest brilliancy	6018 Mar 25 08:38	6°♎18'41	-1.5m
	6018 Apr 12 03:20	30°℞♍	
direct	6018 May 03 18:33	26°♍58'45	
	6018 May 27 06:15	0°♎	
	6018 Aug 07 02:12	0°♏	
desc. node	6018 Sep 11 09:45	19°♏36'01	
	6018 Sep 29 00:33	0°♐	
	6018 Nov 15 22:05	0°♑	
	6018 Dec 30 10:07	0°♒	
evening set	6019 Jan 18 10:52	13°♒26'50	
max. Earth dist.	6019 Feb 02 00:14	23°♒58'24	2.44101 AU
	6019 Feb 10 05:17	0°♓	
conjunction	6019 Mar 14 22:00	24°♓34'28	-1°05'25
minimum elong	6019 Mar 14 22:27	24°♓35'20	1°05'25
	6019 Mar 21 23:51	0°♈	
	6019 Apr 29 11:57	0°♉	
morning rise	6019 May 19 12:50	15°♉47'15	
	6019 Jun 06 13:48	0°♊	
	6019 Jul 15 02:36	0°♋	
asc. node	6019 Jul 30 08:09	11°♋37'05	
	6019 Aug 23 23:27	0°♌	
	6019 Oct 05 02:28	0°♍	
	6019 Nov 19 18:10	0°♎	
	6020 Jan 11 15:35	0°♏	
retrograde	6020 Mar 19 08:48	20°♏26'10	
opposition	6020 Apr 28 17:36	10°♏41'27	2°54'57
greatest brilliancy	6020 Apr 28 17:31	10°♏41'32	-1.3m
min. Earth dist.	6020 Apr 28 13:48	10°♏45'14	0.67933 AU
direct	6020 Jun 08 15:28	0°♏54'08	
desc. node	6020 Jul 29 08:33	12°♏52'21	
	6020 Sep 03 14:59	0°♐	
	6020 Oct 25 07:43	0°♑	
	6020 Dec 09 20:33	0°♒	
	6021 Jan 20 18:45	0°♓	
	6021 Mar 01 08:36	0°♈	
evening set	6021 Mar 17 00:30	12°♈12'09	
	6021 Apr 08 14:45	0°♉	
	6021 May 16 12:39	0°♊	
conjunction	6021 May 24 18:46	6°♊29'42	-0°15'48
minimum elong	6021 May 24 20:27	6°♊32'59	0°15'49
behind sun begin	6021 May 24 14:39	6°♊21'37	
behind sun end	6021 May 25 02:14	6°♊44'20	
asc. node	6021 Jun 16 07:47	24°♊04'27	
	6021 Jun 24 00:18	0°♋	
max. Earth dist.	6021 Jul 14 05:06	15°♋22'06	2.39490 AU
morning rise	6021 Aug 02 19:15	29°♋57'00	
	6021 Aug 02 20:53	0°♌	
	6021 Sep 13 18:04	0°♍	
	6021 Oct 28 04:38	0°♎	
	6021 Dec 14 23:10	0°♏	
	6022 Feb 06 22:59	0°♐	
retrograde	6022 Apr 23 13:32	23°♐26'32	
opposition	6022 Jun 01 22:03	14°♐20'05	0°31'02
greatest brilliancy	6022 Jun 01 23:58	14°♐18'12	-1.4m
min. Earth dist.	6022 Jun 05 13:27	12°♐54'46	0.65683 AU
desc. node	6022 Jun 16 07:47	8°♐58'51	
direct	6022 Jul 13 11:48	4°♐17'19	
	6022 Sep 29 07:05	0°♑	
	6022 Nov 17 23:07	0°♒	
	6022 Dec 31 00:50	0°♓	
	6023 Feb 08 22:34	0°♈	
	6023 Mar 19 07:33	0°♉	
	6023 Apr 26 08:56	0°♊	
asc. node	6023 May 04 06:13	6°♊10'21	
evening set	6023 May 29 13:07	25°♊44'52	
	6023 Jun 04 02:40	0°♋	
	6023 Jul 14 07:20	0°♌	
conjunction	6023 Aug 01 03:33	12°♌52'50	0°52'06
minimum elong	6023 Aug 01 01:19	12°♌48'51	0°52'04
	6023 Aug 25 11:10	0°♍	
max. Earth dist.	6023 Sep 07 10:16	8°♍55'35	2.53135 AU
morning rise	6023 Sep 26 01:35	21°♍32'00	
	6023 Oct 08 19:12	0°♎	
	6023 Nov 24 08:00	0°♏	
	6024 Jan 12 08:09	0°♐	
	6024 Mar 05 17:57	0°♑	
desc. node	6024 May 03 06:27	25°♑07'02	
retrograde	6024 Jun 02 19:14	29°♑59'33	
opposition	6024 Jul 09 18:59	21°♑59'06	-2°37'55
greatest brilliancy	6024 Jul 10 10:29	21°♑44'41	-1.8m
min. Earth dist.	6024 Jul 16 23:37	19°♑18'56	0.57053 AU
direct	6024 Aug 19 02:45	12°♑23'45	
	6024 Oct 16 18:58	0°♒	

	6024 Dec 05 06:55	0°♓	
	6025 Jan 16 03:05	0°♈	
	6025 Feb 24 10:29	0°♉	
asc. node	6025 Mar 21 05:14	19°♉11'58	
	6025 Apr 04 04:38	0°♊	
	6025 May 13 15:05	0°♋	
	6025 Jun 23 13:09	0°♌	
evening set	6025 Jul 27 14:41	23°♌58'24	
	6025 Aug 05 09:01	0°♍	
conjunction	6025 Sep 17 22:51	29°♍13'25	1°07'07
minimum elong	6025 Sep 17 23:10	29°♍13'56	1°07'07
	6025 Sep 19 03:10	0°♎	
max. Earth dist.	6025 Oct 05 14:09	10°♎45'09	2.63066 AU
morning rise	6025 Nov 04 14:39	0°♏04'15	
	6025 Nov 04 11:59	0°♏	
	6025 Dec 22 01:28	0°♐	
	6026 Feb 08 17:08	0°♑	
desc. node	6026 Mar 21 05:02	24°♑11'13	
	6026 Mar 31 05:57	0°♒	
	6026 May 26 16:18	0°♓	
retrograde	6026 Jul 29 21:40	18°♓21'37	
opposition	6026 Aug 31 11:22	12°♓15'51	-5°59'46
greatest brilliancy	6026 Sep 02 05:13	11°♓42'29	-2.5m
min. Earth dist.	6026 Sep 08 16:08	9°♓39'50	0.43869 AU
direct	6026 Oct 05 23:24	4°♓53'05	
	6026 Dec 13 16:19	0°♈	
	6027 Jan 27 22:01	0°♉	
asc. node	6027 Feb 06 05:15	6°♉36'22	
	6027 Mar 10 13:55	0°♊	
	6027 Apr 21 01:29	0°♋	
	6027 Jun 02 15:10	0°♌	
	6027 Jul 16 18:48	0°♍	
	6027 Aug 31 11:30	0°♎	
evening set	6027 Sep 10 02:27	6°♎12'55	
	6027 Oct 17 06:16	0°♏	
conjunction	6027 Oct 26 20:18	6°♏06'00	0°48'26
minimum elong	6027 Oct 26 21:23	6°♏07'44	0°48'27
max. Earth dist.	6027 Oct 29 05:44	7°♏37'19	2.67663 AU
	6027 Dec 03 11:07	0°♐	
morning rise	6027 Dec 10 03:23	4°♐14'41	
	6028 Jan 19 12:26	0°♑	
desc. node	6028 Feb 06 03:38	11°♑18'36	
	6028 Mar 06 03:40	0°♒	
	6028 Apr 21 10:37	0°♓	
	6028 Jun 06 21:03	0°♈	
	6028 Jul 25 04:18	0°♉	
	6028 Sep 28 04:20	0°♊	
retrograde	6028 Oct 17 02:09	2°♊20'47	
	6028 Nov 05 09:01	30°℞♉	
min. Earth dist.	6028 Nov 14 03:59	27°♉46'17	0.37046 AU
opposition	6028 Nov 16 17:30	27°♉04'32	-2°45'19
greatest brilliancy	6028 Nov 16 14:33	27°♉06'32	-3.0m
direct	6028 Dec 16 02:11	22°♉10'02	
asc. node	6028 Dec 24 04:50	22°♉36'29	
	6029 Jan 21 13:28	0°♊	
	6029 Mar 20 10:04	0°♋	
	6029 May 07 22:58	0°♌	
	6029 Jun 24 09:50	0°♍	
	6029 Aug 11 01:44	0°♎	
	6029 Sep 27 21:45	0°♏	
evening set	6029 Oct 16 17:11	11°♏50'21	
	6029 Nov 14 08:51	0°♐	
max. Earth dist.	6029 Nov 20 00:34	3°♐36'29	2.66751 AU
conjunction	6029 Nov 30 14:34	10°♐23'21	0°12'27
minimum elong	6029 Nov 30 14:57	10°♐23'57	0°12'30
behind sun begin	6029 Nov 30 03:10	10°♐05'03	
behind sun end	6029 Dec 01 02:43	10°♐42'52	
desc. node	6029 Dec 24 01:37	25°♐33'44	
	6029 Dec 30 20:45	0°♑	
morning rise	6030 Jan 13 18:43	9°♑08'47	
	6030 Feb 13 24:00	0°♒	
	6030 Mar 29 15:43	0°♓	
	6030 May 10 22:21	0°♈	
	6030 Jun 21 03:44	0°♉	
	6030 Aug 01 01:59	0°♊	
	6030 Sep 12 10:43	0°♋	
	6030 Nov 01 00:12	0°♌	
asc. node	6030 Nov 11 03:31	4°♌43'56	
retrograde	6030 Dec 19 09:06	13°♌56'16	
min. Earth dist.	6031 Jan 16 20:07	8°♌19'51	0.47673 AU
greatest brilliancy	6031 Jan 23 22:01	5°♌47'17	-2.3m
opposition	6031 Jan 25 04:09	5°♌20'05	3°56'50
	6031 Feb 11 22:25	30°℞♋	
direct	6031 Feb 27 11:46	28°♋20'51	
	6031 Mar 15 23:22	0°♌	
	6031 May 28 01:10	0°♍	
	6031 Jul 20 09:28	0°♎	
	6031 Sep 08 15:40	0°♏	
	6031 Oct 27 01:59	0°♐	
desc. node	6031 Nov 11 00:33	9°♐29'28	
evening set	6031 Nov 22 02:53	16°♐37'25	
	6031 Dec 12 15:02	0°♑	
max. Earth dist.	6031 Dec 14 12:06	1°♑14'19	2.60471 AU
conjunction	6032 Jan 07 03:41	17°♑02'22	-0°30'11
minimum elong	6032 Jan 07 02:42	17°♑00'43	0°30'09
	6032 Jan 26 02:54	0°♒	
morning rise	6032 Feb 23 23:23	20°♒13'42	
	6032 Mar 08 14:28	0°♓	
	6032 Apr 18 08:27	0°♈	
	6032 May 27 20:22	0°♉	
	6032 Jul 05 18:49	0°♊	
	6032 Aug 14 02:53	0°♋	
	6032 Sep 24 05:26	0°♌	
asc. node	6032 Sep 28 02:58	2°♌43'44	
	6032 Nov 08 19:02	0°♍	
	6033 Jan 16 07:55	0°♎	
retrograde	6033 Jan 30 12:01	1°♎19'35	
	6033 Feb 13 04:48	30°℞♍	
min. Earth dist.	6033 Mar 05 16:48	23°♍36'42	0.60136 AU
greatest brilliancy	6033 Mar 10 06:43	21°♍48'16	-1.6m
opposition	6033 Mar 11 05:06	21°♍26'10	4°51'05
direct	6033 Apr 17 18:42	12°♍46'35	
	6033 Jun 19 13:01	0°♎	
	6033 Aug 16 20:17	0°♏	
desc. node	6033 Sep 28 00:16	24°♏39'24	
	6033 Oct 06 18:47	0°♐	
	6033 Nov 23 02:05	0°♑	
evening set	6033 Dec 31 07:48	25°♑43'44	
	6034 Jan 06 11:39	0°♒	
max. Earth dist.	6034 Jan 14 19:00	5°♒49'01	2.49339 AU
	6034 Feb 17 09:39	0°♓	
conjunction	6034 Feb 20 18:37	2°♓28'59	-1°03'04
minimum elong	6034 Feb 20 17:38	2°♓27'09	1°03'03
	6034 Mar 29 09:03	0°♈	
morning rise	6034 Apr 20 13:45	17°♈07'13	
	6034 May 07 02:05	0°♉	
	6034 Jun 14 07:40	0°♊	
	6034 Jul 22 22:56	0°♋	
asc. node	6034 Aug 16 01:29	18°♋15'26	

	6034 Aug 31 22:34	0°♌	
	6034 Oct 13 09:15	0°♍	
	6034 Nov 29 05:39	0°♎	
	6035 Jan 28 07:04	0°♏	
retrograde	6035 Mar 07 02:33	7°♏40'59	
	6035 Apr 10 23:30	30°℞♎	
min. Earth dist.	6035 Apr 14 21:25	28°♎27'10	0.67024 AU
opposition	6035 Apr 16 13:23	27°♎47'18	3°38'45
greatest brilliancy	6035 Apr 16 08:31	27°♎52'09	-1.3m
direct	6035 May 26 19:32	18°♎13'10	
	6035 Jul 16 05:21	0°♏	
desc. node	6035 Aug 15 23:28	14°♏02'27	
	6035 Sep 14 17:13	0°♐	
	6035 Nov 03 09:14	0°♑	
	6035 Dec 18 09:07	0°♒	
	6036 Jan 29 04:47	0°♓	
evening set	6036 Feb 20 17:30	16°♓54'00	
	6036 Mar 08 19:30	0°♈	
max. Earth dist.	6036 Apr 05 19:59	21°♈52'44	2.36986 AU
	6036 Apr 16 03:08	0°♉	
conjunction	6036 Apr 24 18:22	6°♉49'41	-0°44'47
minimum elong	6036 Apr 24 21:43	6°♉56'18	0°44'45
	6036 May 24 01:40	0°♊	
	6036 Jul 01 12:41	0°♋	
asc. node	6036 Jul 02 23:17	1°♋06'28	
morning rise	6036 Jul 06 03:48	3°♋33'12	
	6036 Aug 10 08:00	0°♌	
	6036 Sep 21 05:00	0°♍	
	6036 Nov 04 21:28	0°♎	
	6036 Dec 23 18:20	0°♏	
	6037 Feb 21 14:01	0°♐	
retrograde	6037 Apr 09 11:52	10°♐40'39	
opposition	6037 May 19 09:39	1°♐16'31	1°31'47
greatest brilliancy	6037 May 19 12:53	1°♐13'20	-1.3m
min. Earth dist.	6037 May 21 13:30	0°♐25'27	0.67363 AU
	6037 May 22 15:27	30°℞♏	
direct	6037 Jun 29 21:58	21°♏16'20	
desc. node	6037 Jul 02 21:58	21°♏19'36	
	6037 Aug 10 17:20	0°♐	
	6037 Oct 10 08:24	0°♑	
	6037 Nov 26 16:43	0°♒	
	6038 Jan 08 03:33	0°♓	
	6038 Feb 16 20:21	0°♈	
	6038 Mar 27 02:56	0°♉	
evening set	6038 Apr 30 20:55	27°♉28'53	
	6038 May 04 01:39	0°♊	
asc. node	6038 May 20 23:18	13°♊14'34	
	6038 Jun 11 15:34	0°♋	
conjunction	6038 Jul 08 03:24	20°♋01'04	0°31'47
minimum elong	6038 Jul 08 01:00	19°♋56'36	0°31'43
	6038 Jul 21 15:37	0°♌	
max. Earth dist.	6038 Aug 23 08:01	23°♌29'21	2.47984 AU
	6038 Sep 01 15:09	0°♍	
morning rise	6038 Sep 07 07:06	3°♍55'46	
	6038 Oct 15 21:50	0°♎	
	6038 Dec 01 17:09	0°♏	
	6039 Jan 20 21:18	0°♐	
	6039 Mar 20 05:41	0°♑	
retrograde	6039 May 17 14:01	15°♑10'23	
desc. node	6039 May 20 20:47	15°♑06'23	
opposition	6039 Jun 24 16:48	6°♑39'43	-1°19'17
greatest brilliancy	6039 Jun 24 23:06	6°♑33'42	-1.6m
min. Earth dist.	6039 Jun 30 13:47	4°♑25'26	0.61160 AU
	6039 Jul 13 15:03	30°℞♐	
direct	6039 Aug 04 19:38	26°♐45'58	
	6039 Aug 28 06:29	0°♑	
	6039 Nov 01 01:56	0°♒	
	6039 Dec 16 13:29	0°♓	
	6040 Jan 26 07:07	0°♈	
	6040 Mar 05 02:05	0°♉	
asc. node	6040 Apr 06 23:14	25°♉43'09	
	6040 Apr 12 11:07	0°♊	
	6040 May 21 12:45	0°♋	
	6040 Jul 01 01:59	0°♌	
evening set	6040 Jul 06 13:32	3°♌57'11	
	6040 Aug 12 13:37	0°♍	
conjunction	6040 Aug 31 15:33	13°♍01'18	1°06'34
minimum elong	6040 Aug 31 15:00	13°♍00'23	1°06'33
max. Earth dist.	6040 Sep 25 09:22	29°♍32'39	2.59767 AU
	6040 Sep 26 01:57	0°♎	
morning rise	6040 Oct 20 19:20	16°♎08'36	
	6040 Nov 11 09:52	0°♏	
	6040 Dec 29 08:07	0°♐	
	6041 Feb 17 04:22	0°♑	
desc. node	6041 Apr 06 19:24	27°♑10'11	
	6041 Apr 12 06:41	0°♒	
retrograde	6041 Jul 04 19:26	27°♒26'48	
opposition	6041 Aug 08 09:28	20°♒29'40	-4°49'28
greatest brilliancy	6041 Aug 09 19:46	20°♒00'02	-2.2m
min. Earth dist.	6041 Aug 16 23:13	17°♒32'35	0.49230 AU
direct	6041 Sep 15 09:30	11°♒56'57	
	6041 Nov 11 17:32	0°♓	
	6041 Dec 29 09:04	0°♈	
	6042 Feb 08 17:26	0°♉	
asc. node	6042 Feb 22 21:38	10°♉36'47	
	6042 Mar 20 16:27	0°♊	
	6042 Apr 30 01:17	0°♋	
	6042 Jun 10 18:43	0°♌	
	6042 Jul 24 06:37	0°♍	
evening set	6042 Aug 24 23:05	21°♍07'23	
	6042 Sep 07 12:13	0°♎	
conjunction	6042 Oct 12 08:35	22°♎31'19	0°58'24
minimum elong	6042 Oct 12 09:36	22°♎32'56	0°58'24
max. Earth dist.	6042 Oct 20 07:03	27°♎36'06	2.66504 AU
	6042 Oct 24 01:11	0°♏	
morning rise	6042 Nov 26 13:28	21°♏18'03	
	6042 Dec 10 07:16	0°♐	
	6043 Jan 26 19:25	0°♑	
desc. node	6043 Feb 22 17:55	16°♑58'17	
	6043 Mar 15 11:52	0°♒	
	6043 May 02 21:26	0°♓	
	6043 Jun 22 23:33	0°♈	
	6043 Sep 06 07:51	0°♉	
retrograde	6043 Sep 15 21:03	0°♉33'56	
	6043 Sep 25 07:16	30°℞♈	
opposition	6043 Oct 15 19:30	25°♈36'28	-5°35'56
greatest brilliancy	6043 Oct 16 15:27	25°♈23'06	-2.9m
min. Earth dist.	6043 Oct 19 01:55	24°♈43'58	0.37567 AU
direct	6043 Nov 15 09:23	20°♈20'12	
	6043 Dec 25 11:22	0°♉	
asc. node	6044 Jan 10 20:44	7°♉55'49	
	6044 Feb 17 07:22	0°♊	
	6044 Apr 03 02:04	0°♋	
	6044 May 18 02:12	0°♌	
	6044 Jul 02 19:16	0°♍	
	6044 Aug 18 11:55	0°♎	
evening set	6044 Oct 02 11:35	28°♎31'30	
	6044 Oct 04 19:33	0°♏	
max. Earth dist.	6044 Nov 11 05:08	23°♏41'59	2.67757 AU

conjunction	6044 Nov 16 17:42	27°♏12'53	0°27'45
minimum elong	6044 Nov 16 18:29	27°♏14'07	0°27'46
	6044 Nov 21 02:36	0°♐	
morning rise	6044 Dec 30 14:17	25°♐21'35	
	6045 Jan 06 17:56	0°♑	
desc. node	6045 Jan 09 16:38	1°♑54'59	
	6045 Feb 21 08:04	0°♒	
	6045 Apr 06 18:22	0°♓	
	6045 May 20 02:53	0°♈	
	6045 Jul 01 18:40	0°♉	
	6045 Aug 13 20:31	0°♊	
	6045 Sep 30 08:26	0°♋	
asc. node	6045 Nov 27 21:05	19°♋35'36	
retrograde	6045 Nov 28 04:05	19°♋35'39	
min. Earth dist.	6045 Dec 24 17:31	14°♋48'37	0.42343 AU
opposition	6046 Jan 01 16:46	12°♋12'42	2°13'33
greatest brilliancy	6045 Dec 31 23:10	12°♋27'10	-2.6m
direct	6046 Feb 02 02:54	6°♋09'11	
	6046 Apr 15 23:49	0°♌	
	6046 Jun 08 18:02	0°♍	
	6046 Jul 28 23:23	0°♎	
	6046 Sep 16 00:37	0°♏	
	6046 Nov 02 23:34	0°♐	
evening set	6046 Nov 07 18:48	3°♐03'04	
desc. node	6046 Nov 27 15:25	15°♐47'02	
max. Earth dist.	6046 Dec 04 10:28	20°♐11'04	2.63555 AU
	6046 Dec 19 10:57	0°♑	
conjunction	6046 Dec 22 23:39	2°♑19'31	-0°13'38
minimum elong	6046 Dec 22 23:13	2°♑18'47	0°13'35
behind sun begin	6046 Dec 22 12:52	2°♑01'43	
behind sun end	6046 Dec 23 09:34	2°♑35'52	
	6047 Feb 02 03:25	0°♒	
morning rise	6047 Feb 06 19:05	3°♒11'46	
	6047 Mar 17 00:02	0°♓	
	6047 Apr 27 05:20	0°♈	
	6047 Jun 06 05:19	0°♉	
	6047 Jul 15 15:58	0°♊	
	6047 Aug 24 15:04	0°♋	
	6047 Oct 05 23:31	0°♌	
asc. node	6047 Oct 15 19:06	6°♌29'13	
	6047 Nov 25 05:04	0°♍	
retrograde	6048 Jan 16 01:57	14°♍59'40	
min. Earth dist.	6048 Feb 17 02:38	8°♍02'40	0.55781 AU
greatest brilliancy	6048 Feb 22 19:33	5°♍50'22	-1.8m
opposition	6048 Feb 24 00:22	5°♍22'28	4°53'33
	6048 Mar 10 18:52	30°℞♌	
direct	6048 Mar 31 02:50	27°♌15'13	
	6048 Apr 22 01:21	0°♍	
	6048 Jul 02 19:19	0°♎	
	6048 Aug 25 12:13	0°♏	
desc. node	6048 Oct 14 14:31	0°♐15'28	
	6048 Oct 14 04:34	0°♐	
	6048 Nov 30 02:48	0°♑	
evening set	6048 Dec 14 19:20	9°♑44'42	
max. Earth dist.	6048 Dec 31 14:08	21°♑05'47	2.54217 AU
	6049 Jan 13 12:18	0°♒	
conjunction	6049 Feb 01 09:56	13°♒16'50	-0°53'15
minimum elong	6049 Feb 01 08:30	13°♒14'17	0°53'13
	6049 Feb 24 14:51	0°♓	
morning rise	6049 Mar 26 16:19	22°♓18'16	
	6049 Apr 05 20:25	0°♈	
	6049 May 14 19:29	0°♉	
	6049 Jun 22 05:54	0°♊	
	6049 Jul 31 01:00	0°♋	
asc. node	6049 Sep 01 18:04	24°♋31'33	
	6049 Sep 09 06:04	0°♌	
	6049 Oct 22 07:23	0°♍	
	6049 Dec 10 12:07	0°♎	
retrograde	6050 Feb 21 16:57	24°♎27'55	
min. Earth dist.	6050 Mar 30 20:58	15°♎45'32	0.65100 AU
opposition	6050 Apr 03 01:11	14°♎29'31	4°14'59
greatest brilliancy	6050 Apr 02 14:04	14°♎40'36	-1.4m
direct	6050 May 12 10:25	5°♎12'46	
	6050 Jul 30 16:01	0°♏	
desc. node	6050 Sep 01 13:32	17°♏23'17	
	6050 Sep 23 12:22	0°♐	
	6050 Nov 10 23:32	0°♑	
	6050 Dec 25 15:54	0°♒	
evening set	6051 Jan 29 16:05	24°♒59'14	
	6051 Feb 05 11:49	0°♓	
max. Earth dist.	6051 Feb 15 22:04	7°♓44'46	2.41227 AU
	6051 Mar 17 05:22	0°♈	
conjunction	6051 Mar 28 22:04	9°♈02'57	-1°01'53
minimum elong	6051 Mar 28 23:47	9°♈06'17	1°01'53
	6051 Apr 24 16:06	0°♉	
	6051 Jun 01 16:35	0°♊	
morning rise	6051 Jun 06 01:13	3°♊25'52	
	6051 Jul 10 03:58	0°♋	
asc. node	6051 Jul 20 17:42	8°♋05'35	
	6051 Aug 18 23:03	0°♌	
	6051 Sep 29 21:48	0°♍	
	6051 Nov 14 01:03	0°♎	
	6052 Jan 03 20:10	0°♏	
retrograde	6052 Mar 26 23:27	28°♏08'31	
opposition	6052 May 06 05:56	18°♏30'12	2°26'03
greatest brilliancy	6052 May 06 07:40	18°♏28'28	-1.3m
min. Earth dist.	6052 May 06 22:14	18°♏14'02	0.68012 AU
direct	6052 Jun 16 10:46	8°♏37'04	
desc. node	6052 Jul 19 12:07	14°♏16'01	
	6052 Aug 26 20:40	0°♐	
	6052 Oct 19 16:02	0°♑	
	6052 Dec 04 18:13	0°♒	
	6053 Jan 15 20:50	0°♓	
	6053 Feb 24 11:44	0°♈	
evening set	6053 Apr 01 16:03	28°♈21'13	
	6053 Apr 03 18:02	0°♉	
	6053 May 11 15:58	0°♊	
asc. node	6053 Jun 06 16:05	20°♊21'20	
conjunction	6053 Jun 10 12:28	23°♊20'18	0°02'44
minimum elong	6053 Jun 10 12:10	23°♊19'44	0°02'42
behind sun begin	6053 Jun 09 06:55	22°♊23'07	
behind sun end	6053 Jun 11 17:25	24°♊16'17	
	6053 Jun 19 03:49	0°♋	
	6053 Jul 29 00:50	0°♌	
max. Earth dist.	6053 Aug 02 03:31	3°♌01'00	2.42456 AU
morning rise	6053 Aug 16 14:25	13°♌30'09	
	6053 Sep 08 21:36	0°♍	
	6053 Oct 23 04:54	0°♎	
	6053 Dec 09 11:29	0°♏	
	6054 Jan 30 13:32	0°♐	
	6054 Apr 15 22:51	0°♑	
retrograde	6054 May 01 22:50	1°♑27'20	
	6054 May 17 02:54	30°℞♐	
desc. node	6054 Jun 06 10:45	23°♐52'46	
opposition	6054 Jun 09 22:35	22°♐32'13	-0°07'40
greatest brilliancy	6054 Jun 09 23:07	22°♐31'42	-1.5m
min. Earth dist.	6054 Jun 14 09:35	20°♐48'35	0.64350 AU
direct	6054 Jul 21 11:00	12°♐30'28	
	6054 Sep 20 12:20	0°♑	
	6054 Nov 11 20:49	0°♒	

	6054 Dec 25 14:49	0°♓	
	6055 Feb 03 18:25	0°♈	
	6055 Mar 14 06:13	0°♉	
	6055 Apr 21 09:28	0°♊	
asc. node	6055 Apr 24 14:57	2°♊31'34	
	6055 May 30 04:54	0°♋	
evening set	6055 Jun 13 12:57	10°♋49'37	
	6055 Jul 09 11:30	0°♌	
conjunction	6055 Aug 13 06:54	24°♌50'08	0°59'38
minimum elong	6055 Aug 13 05:14	24°♌47'13	0°59'37
	6055 Aug 20 16:57	0°♍	
max. Earth dist.	6055 Sep 14 19:55	17°♍10'08	2.55709 AU
	6055 Oct 04 01:19	0°♎	
morning rise	6055 Oct 05 20:13	1°♎10'47	
	6055 Nov 19 10:47	0°♏	
	6056 Jan 06 22:45	0°♐	
	6056 Feb 27 15:32	0°♑	
desc. node	6056 Apr 23 09:45	27°♑26'45	
	6056 Apr 29 22:04	0°♒	
retrograde	6056 Jun 13 13:35	9°♒39'03	
opposition	6056 Jul 19 19:34	1°♒58'39	-3°25'48
greatest brilliancy	6056 Jul 20 17:36	1°♒38'35	-1.9m
	6056 Jul 25 05:38	30°℞♑	
min. Earth dist.	6056 Jul 27 15:34	29°♑07'54	0.54439 AU
direct	6056 Aug 28 12:09	22°♑40'02	
	6056 Oct 02 19:04	0°♒	
	6056 Nov 27 19:20	0°♓	
	6057 Jan 09 21:10	0°♈	
	6057 Feb 18 17:01	0°♉	
asc. node	6057 Mar 11 15:00	16°♉03'54	
	6057 Mar 29 18:50	0°♊	
	6057 May 08 11:02	0°♋	
	6057 Jun 18 14:05	0°♌	
	6057 Jul 31 14:01	0°♍	
evening set	6057 Aug 07 09:47	4°♍38'25	
	6057 Sep 14 10:58	0°♎	
conjunction	6057 Sep 27 02:42	8°♎16'12	1°05'05
minimum elong	6057 Sep 27 03:23	8°♎17'17	1°05'05
max. Earth dist.	6057 Oct 11 04:52	17°♎23'47	2.64519 AU
	6057 Oct 30 20:12	0°♏	
morning rise	6057 Nov 12 17:32	8°♏12'26	
	6057 Dec 17 06:01	0°♐	
	6058 Feb 03 09:37	0°♑	
desc. node	6058 Mar 11 08:52	22°♑00'55	
	6058 Mar 24 15:18	0°♒	
	6058 May 15 20:04	0°♓	
	6058 Jul 25 01:46	0°♈	
retrograde	6058 Aug 14 23:57	2°♈32'28	
	6058 Sep 04 09:44	30°℞♓	
opposition	6058 Sep 15 12:31	26°♓56'17	-6°19'28
greatest brilliancy	6058 Sep 17 04:03	26°♓26'35	-2.6m
min. Earth dist.	6058 Sep 22 16:04	24°♓48'27	0.41122 AU
direct	6058 Oct 19 04:55	20°♓21'40	
	6058 Nov 27 15:43	0°♈	
	6059 Jan 18 21:58	0°♉	
asc. node	6059 Jan 27 13:08	5°♉46'14	
	6059 Mar 03 11:23	0°♊	
	6059 Apr 14 22:36	0°♋	
	6059 May 28 03:33	0°♌	
	6059 Jul 11 17:34	0°♍	
	6059 Aug 26 17:05	0°♎	
evening set	6059 Sep 18 19:13	14°♎48'39	
	6059 Oct 12 15:24	0°♏	
conjunction	6059 Nov 03 20:49	14°♏07'03	0°41'25
minimum elong	6059 Nov 03 21:50	14°♏08'41	0°41'26
max. Earth dist.	6059 Nov 03 09:10	13°♏48'33	2.67938 AU
	6059 Nov 28 20:34	0°♐	
morning rise	6059 Dec 17 21:01	12°♐07'37	
	6060 Jan 14 17:49	0°♑	
desc. node	6060 Jan 27 07:10	8°♑06'14	
	6060 Feb 29 22:57	0°♒	
	6060 Apr 15 11:09	0°♓	
	6060 May 30 11:35	0°♈	
	6060 Jul 14 19:36	0°♉	
	6060 Sep 01 19:39	0°♊	
retrograde	6060 Nov 02 18:36	20°♊41'24	
min. Earth dist.	6060 Nov 29 05:14	16°♊18'56	0.38210 AU
opposition	6060 Dec 04 13:54	14°♊47'01	-0°43'24
greatest brilliancy	6060 Dec 04 11:11	14°♊48'57	-3.0m
asc. node	6060 Dec 14 12:29	12°♊07'01	
direct	6061 Jan 03 05:23	9°♊37'00	
	6061 Mar 08 19:05	0°♋	
	6061 Apr 30 14:12	0°♌	
	6061 Jun 18 13:18	0°♍	
	6061 Aug 05 22:42	0°♎	
	6061 Sep 23 03:34	0°♏	
evening set	6061 Oct 24 18:02	19°♏50'42	
	6061 Nov 09 18:29	0°♐	
max. Earth dist.	6061 Nov 25 06:21	9°♐54'12	2.65848 AU
conjunction	6061 Dec 08 14:41	18°♐30'29	0°03'03
minimum elong	6061 Dec 08 14:47	18°♐30'39	0°03'05
behind sun begin	6061 Dec 07 20:23	18°♐00'53	
behind sun end	6061 Dec 09 09:11	19°♐00'26	
desc. node	6061 Dec 14 05:29	22°♐09'07	
	6061 Dec 26 06:07	0°♑	
morning rise	6062 Jan 22 04:26	17°♑50'02	
	6062 Feb 09 05:29	0°♒	
	6062 Mar 24 14:14	0°♓	
	6062 May 05 11:04	0°♈	
	6062 Jun 15 04:20	0°♉	
	6062 Jul 25 10:25	0°♊	
	6062 Sep 04 13:31	0°♋	
	6062 Oct 19 19:33	0°♌	
asc. node	6062 Nov 01 13:12	7°♌19'24	
retrograde	6062 Dec 30 01:01	26°♌20'34	
min. Earth dist.	6063 Jan 28 17:42	20°♌15'26	0.50653 AU
greatest brilliancy	6063 Feb 04 10:27	17°♌46'08	-2.1m
opposition	6063 Feb 05 18:22	17°♌16'23	4°29'28
direct	6063 Mar 12 03:07	9°♌50'28	
	6063 May 18 17:26	0°♍	
	6063 Jul 14 05:58	0°♎	
	6063 Sep 03 11:48	0°♏	
	6063 Oct 22 07:50	0°♐	
desc. node	6063 Nov 01 04:26	6°♐13'13	
evening set	6063 Nov 30 12:33	25°♐05'37	
	6063 Dec 08 00:11	0°♑	
max. Earth dist.	6063 Dec 20 16:31	8°♑24'19	2.58437 AU
conjunction	6064 Jan 16 06:15	26°♑24'16	-0°39'19
minimum elong	6064 Jan 16 05:01	26°♑22'09	0°39'16
	6064 Jan 21 11:23	0°♒	
	6064 Mar 03 19:58	0°♓	
morning rise	6064 Mar 05 15:26	1°♓18'50	
	6064 Apr 13 09:31	0°♈	
	6064 May 22 16:39	0°♉	
	6064 Jun 30 10:22	0°♊	
	6064 Aug 08 12:29	0°♋	
asc. node	6064 Sep 18 11:49	0°♌13'26	
	6064 Sep 18 04:17	0°♌	
	6064 Nov 01 10:18	0°♍	

	6064	Dec	26	12:49	0°♎				6070	Jan	02	23:03	0°♓	
retrograde	6065	Feb	07	19:20	10°♎21'32				6070	Feb	11	19:23	0°♈	
min. Earth dist.	6065	Mar	15	02:38	2°♎16'03	0.62154 AU			6070	Mar	22	03:38	0°♉	
opposition	6065	Mar	19	19:08	0°♎24'25	4°41'44			6070	Apr	29	03:41	0°♊	
greatest brilliancy	6065	Mar	19	00:52	0°♎42'34	-1.5m	asc. node		6070	May	11	08:02	9°♊32'45	
	6065	Mar	20	19:49	30°℞♍		evening set		6070	May	17	06:15	14°♊09'49	
direct	6065	Apr	27	01:52	21°♍30'03				6070	Jun	06	18:56	0°♋	
	6065	Jun	07	13:40	0°♎				6070	Jul	16	20:21	0°♌	
	6065	Aug	10	12:51	0°♏									
desc. node	6065	Sep	18	03:34	21°♏56'56		conjunction		6070	Jul	22	02:59	3°♌51'01	0°44'33
	6065	Oct	01	14:22	0°♐		minimum elong		6070	Jul	22	00:28	3°♌46'27	0°44'29
	6065	Nov	18	07:01	0°♑				6070	Aug	27	20:52	0°♍	
	6066	Jan	01	19:19	0°♒		max. Earth dist.		6070	Sep	01	06:40	3°♍03'38	2.50900 AU
evening set	6066	Jan	10	08:50	5°♒59'35		morning rise		6070	Sep	18	05:27	14°♍40'34	
max. Earth dist.	6066	Jan	24	06:27	15°♒52'30	2.46475 AU			6070	Oct	11	02:36	0°♎	
	6066	Feb	12	17:02	0°♓				6070	Nov	26	16:24	0°♏	
									6071	Jan	15	01:35	0°♐	
conjunction	6066	Mar	04	20:54	15°♓00'18	-1°05'36			6071	Mar	10	23:55	0°♑	
minimum elong	6066	Mar	04	20:36	14°♓59'44	1°05'35	desc. node		6071	May	11	00:45	22°♑27'28	
	6066	Mar	24	14:29	0°♈		retrograde		6071	May	27	02:33	23°♑55'29	
	6066	May	02	05:04	0°♉		opposition		6071	Jul	03	15:40	15°♑40'41	-2°03'53
morning rise	6066	May	06	09:04	3°♉16'14		greatest brilliancy		6071	Jul	04	02:50	15°♑30'10	-1.7m
	6066	Jun	09	08:27	0°♊		min. Earth dist.		6071	Jul	10	07:15	13°♑10'45	0.58998 AU
	6066	Jul	17	21:33	0°♋		direct		6071	Aug	13	09:50	5°♑55'23	
asc. node	6066	Aug	06	09:21	14°♋50'10				6071	Oct	23	20:09	0°♒	
	6066	Aug	26	18:14	0°♌				6071	Dec	10	06:54	0°♓	
	6066	Oct	07	22:20	0°♍				6072	Jan	20	14:49	0°♈	
	6066	Nov	22	21:37	0°♎				6072	Feb	28	16:16	0°♉	
	6067	Jan	16	15:27	0°♏		asc. node		6072	Mar	28	06:27	22°♉15'46	
retrograde	6067	Mar	14	16:56	15°♏31'23				6072	Apr	07	05:45	0°♊	
min. Earth dist.	6067	Apr	23	07:57	6°♏01'53	0.67653 AU			6072	May	16	11:11	0°♋	
opposition	6067	Apr	24	03:35	5°♏42'21	3°13'58			6072	Jun	26	04:00	0°♌	
greatest brilliancy	6067	Apr	24	01:37	5°♏44'18	-1.3m	evening set		6072	Jul	18	20:28	16°♌08'43	
	6067	May	09	15:45	30°℞♎				6072	Aug	07	18:55	0°♍	
direct	6067	Jun	03	19:19	26°♎00'22									
	6067	Jul	01	05:39	0°♏		conjunction		6072	Sep	10	17:15	22°♍56'20	1°07'33
desc. node	6067	Aug	06	02:24	13°♏20'28		minimum elong		6072	Sep	10	17:15	22°♍56'20	1°07'33
	6067	Sep	08	06:03	0°♐				6072	Sep	21	09:11	0°♎	
	6067	Oct	29	02:07	0°♑		max. Earth dist.		6072	Oct	01	10:32	6°♎36'03	2.61704 AU
	6067	Dec	13	10:45	0°♒		morning rise		6072	Oct	29	09:04	24°♎41'07	
	6068	Jan	24	09:20	0°♓				6072	Nov	06	16:30	0°♏	
	6068	Mar	04	00:27	0°♈				6072	Dec	24	08:45	0°♐	
evening set	6068	Mar	05	13:09	1°♈11'00				6073	Feb	11	10:45	0°♑	
	6068	Apr	11	07:38	0°♉		desc. node		6073	Mar	27	23:10	25°♑57'51	
									6073	Apr	04	04:50	0°♒	
conjunction	6068	May	11	12:17	23°♉54'02	-0°29'23			6073	Jun	05	05:36	0°♓	
minimum elong	6068	May	11	15:08	23°♉59'39	0°29'22	retrograde		6073	Jul	18	09:45	9°♓15'13	
	6068	May	19	05:40	0°♊		opposition		6073	Aug	20	21:15	2°♓45'29	-5°32'32
max. Earth dist.	6068	Jun	19	23:19	24°♊49'31	2.37472 AU	greatest brilliancy		6073	Aug	22	13:03	2°♓12'24	-2.3m
asc. node	6068	Jun	23	09:06	27°♊27'34		min. Earth dist.		6073	Aug	29	10:17	29°♒55'53	0.46253 AU
	6068	Jun	26	16:12	0°♋				6073	Aug	29	05:10	30°℞♒	
morning rise	6068	Jul	22	05:16	19°♋24'48		direct		6073	Sep	26	14:53	24°♒47'59	
	6068	Aug	05	10:57	0°♌				6073	Oct	24	23:31	0°♓	
	6068	Sep	16	06:24	0°♍				6073	Dec	20	17:40	0°♈	
	6068	Oct	30	17:11	0°♎				6074	Feb	01	18:59	0°♉	
	6068	Dec	17	19:02	0°♏		asc. node		6074	Feb	13	06:31	8°♉23'16	
	6069	Feb	11	10:09	0°♐				6074	Mar	14	13:01	0°♊	
retrograde	6069	Apr	17	10:43	18°♐26'29				6074	Apr	24	10:13	0°♋	
opposition	6069	May	27	02:20	9°♐11'41	0°57'00			6074	Jun	05	12:45	0°♌	
greatest brilliancy	6069	May	27	05:09	9°♐08'56	-1.4m			6074	Jul	19	07:47	0°♍	
min. Earth dist.	6069	May	30	02:16	8°♐01'13	0.66556 AU			6074	Sep	02	18:18	0°♎	
desc. node	6069	Jun	23	01:39	0°♐31'13		evening set		6074	Sep	03	08:02	0°♎22'20	
	6069	Jun	26	03:58	30°℞♏				6074	Oct	19	09:47	0°♏	
direct	6069	Jul	07	16:40	29°♏09'26									
	6069	Jul	19	15:19	0°♐		conjunction		6074	Oct	20	17:24	0°♏50'25	0°52'55
	6069	Oct	03	11:16	0°♑		minimum elong		6074	Oct	20	18:29	0°♏52'09	0°52'55
	6069	Nov	21	02:35	0°♒		max. Earth dist.		6074	Oct	25	12:43	3°♏54'08	2.67258 AU

morning rise	6074 Dec 04 08:33	29°♏11'51	
	6074 Dec 05 14:55	0°♐	
	6075 Jan 21 20:41	0°♑	
desc. node	6075 Feb 12 21:41	14°♑02'15	
	6075 Mar 09 22:16	0°♒	
	6075 Apr 26 00:45	0°♓	
	6075 Jun 13 00:40	0°♈	
	6075 Aug 04 13:39	0°♉	
retrograde	6075 Oct 04 05:07	18°♉37'41	
opposition	6075 Nov 03 05:48	13°♉38'43	-4°12'07
greatest brilliancy	6075 Nov 03 10:42	13°♉35'28	-3.0m
min. Earth dist.	6075 Nov 03 07:27	13°♉37'37	0.36842 AU
direct	6075 Dec 02 21:30	8°♉43'16	
asc. node	6076 Jan 01 06:30	14°♉06'02	
	6076 Feb 05 03:04	0°♊	
	6076 Mar 26 04:29	0°♋	
	6076 May 11 19:22	0°♌	
	6076 Jun 27 08:44	0°♍	
	6076 Aug 13 12:47	0°♎	
	6076 Sep 30 02:44	0°♏	
evening set	6076 Oct 10 16:12	6°♏39'34	
max. Earth dist.	6076 Nov 16 09:04	29°♏55'00	2.67313 AU
	6076 Nov 16 12:12	0°♐	
conjunction	6076 Nov 24 15:54	5°♐12'19	0°18'58
minimum elong	6076 Nov 24 16:28	5°♐13'13	0°18'59
desc. node	6076 Dec 30 19:46	28°♐31'38	
	6077 Jan 02 02:02	0°♑	
morning rise	6077 Jan 07 15:03	3°♑37'09	
	6077 Feb 16 10:38	0°♒	
	6077 Apr 01 10:48	0°♓	
	6077 May 14 04:29	0°♈	
	6077 Jun 24 23:23	0°♉	
	6077 Aug 05 15:36	0°♊	
	6077 Sep 18 10:30	0°♋	
	6077 Nov 15 07:30	0°♌	
asc. node	6077 Nov 18 05:20	0°♌53'26	
retrograde	6077 Dec 10 13:34	4°♌20'08	
	6078 Jan 04 09:50	30°℞♋	
min. Earth dist.	6078 Jan 07 02:07	29°♋07'26	0.45226 AU
greatest brilliancy	6078 Jan 14 08:45	26°♋36'22	-2.4m
opposition	6078 Jan 15 11:18	26°♋13'15	3°21'17
direct	6078 Feb 16 21:47	19°♋38'10	
	6078 Apr 02 11:00	0°♌	
	6078 Jun 01 13:51	0°♍	
	6078 Jul 23 08:44	0°♎	
	6078 Sep 11 01:28	0°♏	
	6078 Oct 29 07:12	0°♐	
evening set	6078 Nov 15 22:32	11°♐13'51	
desc. node	6078 Nov 17 18:32	12°♐24'24	
max. Earth dist.	6078 Dec 10 04:03	26°♐55'46	2.61954 AU
	6078 Dec 14 20:20	0°♑	
conjunction	6078 Dec 31 12:37	11°♑03'30	-0°23'20
minimum elong	6078 Dec 31 11:52	11°♑02'14	0°23'17
	6079 Jan 28 11:16	0°♒	
morning rise	6079 Feb 16 07:57	13°♒05'36	
	6079 Mar 12 03:47	0°♓	
	6079 Apr 22 03:27	0°♈	
	6079 May 31 20:49	0°♉	
	6079 Jul 10 00:16	0°♊	
	6079 Aug 18 13:19	0°♋	
	6079 Sep 29 00:41	0°♌	
asc. node	6079 Oct 06 04:24	4°♌54'58	
	6079 Nov 14 20:18	0°♍	
retrograde	6080 Jan 25 01:18	24°♍59'30	
min. Earth dist.	6080 Feb 27 07:11	17°♍36'28	0.58289 AU
greatest brilliancy	6080 Mar 03 09:31	15°♍36'46	-1.7m
opposition	6080 Mar 04 10:57	15°♍11'50	4°55'03
direct	6080 Apr 10 09:59	6°♍45'37	
	6080 Jun 24 18:19	0°♎	
	6080 Aug 19 19:38	0°♏	
desc. node	6080 Oct 04 18:03	27°♏15'09	
	6080 Oct 09 05:19	0°♐	
	6080 Nov 25 09:39	0°♑	
evening set	6080 Dec 24 01:10	19°♑08'06	
max. Earth dist.	6081 Jan 08 07:15	29°♑37'13	2.51584 AU
	6081 Jan 08 20:22	0°♒	
conjunction	6081 Feb 12 02:10	24°♒18'48	-0°59'37
minimum elong	6081 Feb 12 00:53	24°♒16'28	0°59'35
	6081 Feb 19 21:32	0°♓	
	6081 Apr 01 00:32	0°♈	
morning rise	6081 Apr 09 04:54	6°♈15'25	
	6081 May 09 20:38	0°♉	
	6081 Jun 17 04:24	0°♊	
	6081 Jul 25 20:43	0°♋	
asc. node	6081 Aug 23 03:18	21°♋20'45	
	6081 Sep 03 21:09	0°♌	
	6081 Oct 16 11:20	0°♍	
	6081 Dec 02 23:23	0°♎	
	6082 Feb 08 15:28	0°♏	
retrograde	6082 Mar 01 10:13	2°♏34'50	
	6082 Mar 21 00:57	30°℞♎	
min. Earth dist.	6082 Apr 08 12:37	23°♎34'22	0.66284 AU
opposition	6082 Apr 10 20:33	22°♎38'35	3°54'56
greatest brilliancy	6082 Apr 10 13:07	22°♎45'59	-1.4m
direct	6082 May 20 17:56	13°♎11'35	
	6082 Jul 22 01:01	0°♏	
desc. node	6082 Aug 22 17:21	15°♏34'05	
	6082 Sep 17 18:37	0°♐	
	6082 Nov 05 23:01	0°♑	
	6082 Dec 20 20:58	0°♒	
	6083 Jan 31 17:57	0°♓	
evening set	6083 Feb 10 18:13	7°♓26'11	
max. Earth dist.	6083 Mar 08 22:30	27°♓17'50	2.38554 AU
	6083 Mar 12 10:43	0°♈	
conjunction	6083 Apr 13 04:37	24°♈46'02	-0°53'54
minimum elong	6083 Apr 13 07:30	24°♈51'43	0°53'54
	6083 Apr 19 19:57	0°♉	
	6083 May 27 19:13	0°♊	
morning rise	6083 Jun 23 19:37	21°♊09'47	
	6083 Jul 05 05:47	0°♋	
asc. node	6083 Jul 11 00:48	4°♋26'58	
	6083 Aug 13 23:47	0°♌	
	6083 Sep 24 19:58	0°♍	
	6083 Nov 08 14:19	0°♎	
	6083 Dec 28 00:42	0°♏	
	6084 Mar 01 12:51	0°♐	
retrograde	6084 Apr 03 15:39	5°♐47'32	
	6084 May 04 00:35	30°℞♏	
opposition	6084 May 13 18:19	26°♏16'45	1°55'01
greatest brilliancy	6084 May 13 21:10	26°♏13'56	-1.3m
min. Earth dist.	6084 May 15 06:36	25°♏40'56	0.67785 AU
direct	6084 Jun 24 04:18	16°♏19'09	
desc. node	6084 Jul 09 15:46	17°♏41'37	
	6084 Aug 17 12:45	0°♐	
	6084 Oct 13 17:07	0°♑	
	6084 Nov 29 13:23	0°♒	
	6085 Jan 10 21:54	0°♓	
	6085 Feb 19 14:42	0°♈	
	6085 Mar 29 21:18	0°♉	
evening set	6085 Apr 17 23:33	15°♉07'10	

	6085 May 06 19:21	0°♊	
asc. node	6085 May 28 00:35	16°♊37'54	
	6085 Jun 14 07:30	0°♋	
conjunction	6085 Jun 26 12:40	9°♋19'25	0°20'11
minimum elong	6085 Jun 26 10:51	9°♋15'59	0°20'08
	6085 Jul 24 04:51	0°♌	
max. Earth dist.	6085 Aug 15 04:37	15°♌57'12	2.45530 AU
morning rise	6085 Aug 29 07:38	25°♌58'21	
	6085 Sep 04 01:40	0°♍	
	6085 Oct 18 06:45	0°♎	
	6085 Dec 04 04:42	0°♏	
	6086 Jan 23 23:16	0°♐	
	6086 Mar 26 21:31	0°♑	
retrograde	6086 May 10 16:21	9°♑40'13	
desc. node	6086 May 27 14:38	7°♑52'08	
opposition	6086 Jun 18 05:44	0°♑58'02	-0°48'29
greatest brilliancy	6086 Jun 18 09:11	0°♑54'44	-1.5m
	6086 Jun 20 18:04	30°℞♐	
min. Earth dist.	6086 Jun 23 12:08	28°♐56'44	0.62713 AU
direct	6086 Jul 29 14:26	20°♐59'36	
	6086 Sep 08 20:18	0°♑	
	6086 Nov 05 06:08	0°♒	
	6086 Dec 19 23:02	0°♓	
	6087 Jan 29 11:02	0°♈	
	6087 Mar 09 02:48	0°♉	
asc. node	6087 Apr 15 00:38	28°♉57'13	
	6087 Apr 16 08:48	0°♊	
	6087 May 25 06:41	0°♋	
evening set	6087 Jun 27 12:02	24°♋47'15	
	6087 Jul 04 15:28	0°♌	
	6087 Aug 15 22:52	0°♍	
conjunction	6087 Aug 24 13:49	5°♍56'24	1°04'30
minimum elong	6087 Aug 24 12:48	5°♍54'39	1°04'29
max. Earth dist.	6087 Sep 21 15:50	24°♍54'42	2.58042 AU
	6087 Sep 29 07:51	0°♎	
morning rise	6087 Oct 15 03:04	10°♎22'14	
	6087 Nov 14 15:07	0°♏	
	6088 Jan 01 17:38	0°♐	
	6088 Feb 21 05:14	0°♑	
desc. node	6088 Apr 13 13:24	28°♑01'48	
	6088 Apr 17 16:24	0°♒	
retrograde	6088 Jun 25 04:46	19°♒55'01	
opposition	6088 Jul 30 13:20	12°♒37'30	-4°13'53
greatest brilliancy	6088 Jul 31 18:27	12°♒11'40	-2.0m
min. Earth dist.	6088 Aug 07 21:08	9°♒40'41	0.51618 AU
direct	6088 Sep 07 09:59	3°♒41'19	
	6088 Nov 18 21:48	0°♓	
	6089 Jan 03 01:27	0°♈	
	6089 Feb 12 15:14	0°♉	
asc. node	6089 Mar 01 23:12	13°♉08'52	
	6089 Mar 24 03:16	0°♊	
	6089 May 03 03:14	0°♋	
	6089 Jun 13 12:32	0°♌	
	6089 Jul 26 17:38	0°♍	
evening set	6089 Aug 17 14:38	14°♍43'06	
	6089 Sep 09 17:58	0°♎	
conjunction	6089 Oct 05 22:36	17°♎00'47	1°01'37
minimum elong	6089 Oct 05 23:31	17°♎02'15	1°01'37
max. Earth dist.	6089 Oct 16 15:05	23°♎53'04	2.65715 AU
	6089 Oct 26 04:23	0°♏	
morning rise	6089 Nov 20 17:02	16°♏14'22	
	6089 Dec 12 11:25	0°♐	
	6090 Jan 29 05:33	0°♑	
desc. node	6090 Mar 01 11:32	19°♑28'21	

	6090 Mar 18 12:28	0°♒	
	6090 May 07 05:58	0°♓	
	6090 Jul 01 08:31	0°♈	
retrograde	6090 Sep 01 11:26	18°♈08'22	
opposition	6090 Oct 01 23:14	12°♈58'04	-6°09'59
greatest brilliancy	6090 Oct 03 06:23	12°♈36'16	-2.8m
min. Earth dist.	6090 Oct 07 08:41	11°♈27'54	0.38864 AU
direct	6090 Nov 02 19:43	7°♈10'45	
	6091 Jan 07 03:43	0°♉	
asc. node	6091 Jan 17 21:57	6°♉23'03	
	6091 Feb 23 09:37	0°♊	
	6091 Apr 08 08:33	0°♋	
	6091 May 22 09:44	0°♌	
	6091 Jul 06 12:45	0°♍	
	6091 Aug 21 20:25	0°♎	
evening set	6091 Sep 27 06:48	23°♎13'03	
	6091 Oct 07 23:22	0°♏	
max. Earth dist.	6091 Nov 08 11:40	19°♏59'19	2.67941 AU
conjunction	6091 Nov 11 20:10	22°♏07'12	0°33'39
minimum elong	6091 Nov 11 21:04	22°♏08'38	0°33'39
	6091 Nov 24 05:28	0°♐	
morning rise	6091 Dec 25 17:03	20°♐08'49	
	6092 Jan 09 23:29	0°♑	
desc. node	6092 Jan 17 10:13	4°♑49'38	
	6092 Feb 24 20:27	0°♒	
	6092 Apr 09 17:42	0°♓	
	6092 May 23 18:19	0°♈	
	6092 Jul 06 09:09	0°♉	
	6092 Aug 20 04:15	0°♊	
	6092 Oct 13 10:07	0°♋	
retrograde	6092 Nov 17 16:12	7°♋56'36	
asc. node	6092 Dec 04 22:36	5°♋49'40	
min. Earth dist.	6092 Dec 13 20:42	3°♋25'11	0.40253 AU
opposition	6092 Dec 20 23:46	1°♋13'27	1°06'05
greatest brilliancy	6092 Dec 20 15:33	1°♋19'49	-2.8m
	6092 Dec 25 00:13	30°℞♊	
direct	6093 Jan 20 14:05	25°♊35'37	
	6093 Feb 16 16:37	0°♋	
	6093 Apr 22 03:37	0°♌	
	6093 Jun 12 08:23	0°♍	
	6093 Jul 31 15:58	0°♎	
	6093 Sep 18 07:43	0°♏	
evening set	6093 Nov 01 18:20	27°♏51'30	
	6093 Nov 05 03:22	0°♐	
max. Earth dist.	6093 Nov 30 14:05	16°♐17'32	2.64677 AU
desc. node	6093 Dec 04 09:18	18°♐44'59	
conjunction	6093 Dec 16 18:03	26°♐47'43	-0°06'41
minimum elong	6093 Dec 16 17:51	26°♐47'23	0°06'39
behind sun begin	6093 Dec 16 00:27	26°♐19'00	
behind sun end	6093 Dec 17 11:14	27°♐15'48	
	6093 Dec 21 15:27	0°♑	
morning rise	6094 Jan 30 22:23	26°♑53'43	
	6094 Feb 04 11:49	0°♒	
	6094 Mar 19 14:19	0°♓	
	6094 Apr 30 02:54	0°♈	
	6094 Jun 09 10:15	0°♉	
	6094 Jul 19 04:31	0°♊	
	6094 Aug 28 13:03	0°♋	
	6094 Oct 10 17:35	0°♌	
asc. node	6094 Oct 22 20:54	7°♌41'28	
	6094 Dec 04 15:49	0°♍	
retrograde	6095 Jan 08 23:38	7°♍43'50	
min. Earth dist.	6095 Feb 08 23:16	1°♍09'40	0.53574 AU
	6095 Feb 12 00:59	30°℞♌	
greatest brilliancy	6095 Feb 15 03:43	28°♌48'29	-2.0m

opposition	6095 Feb 16 10:35	28°♌19'02	4°47'48
direct	6095 Mar 23 19:45	20°♌28'56	
	6095 May 06 05:29	0°♍	
	6095 Jul 07 15:12	0°♎	
	6095 Aug 29 04:29	0°♏	
	6095 Oct 17 12:23	0°♐	
desc. node	6095 Oct 22 08:20	3°♐01'22	
	6095 Dec 03 08:59	0°♑	
evening set	6095 Dec 09 02:37	3°♑46'46	
max. Earth dist.	6095 Dec 27 05:53	15°♑54'15	2.56196 AU
	6096 Jan 16 20:31	0°♒	
conjunction	6096 Jan 25 18:34	6°♒12'36	-0°47'44
minimum elong	6096 Jan 25 17:11	6°♒10'11	0°47'41
	6096 Feb 28 02:42	0°♓	
morning rise	6096 Mar 17 02:59	13°♓13'25	
	6096 Apr 08 12:34	0°♈	
	6096 May 17 15:23	0°♉	
	6096 Jun 25 04:43	0°♊	
	6096 Aug 03 02:03	0°♋	
asc. node	6096 Sep 08 19:10	27°♋23'07	
	6096 Sep 12 09:42	0°♌	
	6096 Oct 25 18:56	0°♍	
	6096 Dec 15 12:35	0°♎	
retrograde	6097 Feb 15 20:42	19°♎01'43	
min. Earth dist.	6097 Mar 24 05:45	10°♎34'48	0.63916 AU
greatest brilliancy	6097 Mar 27 11:40	9°♎17'13	-1.5m
opposition	6097 Mar 28 01:49	9°♎03'07	4°27'41
	6097 May 02 13:06	30°℞♍	
direct	6097 May 05 23:51	29°♍55'32	
	6097 May 09 11:33	0°♎	
	6097 Aug 03 16:00	0°♏	
desc. node	6097 Sep 08 07:15	19°♏29'39	
	6097 Sep 26 06:09	0°♐	
	6097 Nov 13 10:21	0°♑	
	6097 Dec 28 02:27	0°♒	
evening set	6098 Jan 20 23:56	16°♒53'24	
max. Earth dist.	6098 Feb 04 16:54	27°♒34'03	2.43565 AU
	6098 Feb 08 00:23	0°♓	
conjunction	6098 Mar 17 23:05	28°♓32'34	-1°04'58
minimum elong	6098 Mar 17 23:50	28°♓34'02	1°04'58
	6098 Mar 19 20:39	0°♈	
	6098 Apr 27 09:27	0°♉	
morning rise	6098 May 23 07:26	20°♉25'32	
	6098 Jun 04 11:02	0°♊	
	6098 Jul 12 22:29	0°♋	
asc. node	6098 Jul 27 18:52	11°♋21'17	
	6098 Aug 21 16:49	0°♌	
	6098 Oct 02 15:45	0°♍	
	6098 Nov 16 23:49	0°♎	
	6099 Jan 07 21:44	0°♏	
retrograde	6099 Mar 22 07:13	23°♏15'44	
opposition	6099 May 01 16:23	13°♏32'15	2°46'41
greatest brilliancy	6099 May 01 16:45	13°♏31'53	-1.3m
min. Earth dist.	6099 May 01 17:01	13°♏31'36	0.67984 AU
direct	6099 Jun 11 16:04	3°♏43'27	
desc. node	6099 Jul 27 06:03	13°♏41'33	
	6099 Sep 01 03:25	0°♐	
	6099 Oct 23 14:50	0°♑	
	6099 Dec 08 10:51	0°♒	
	6100 Jan 19 12:52	0°♓	
	6100 Feb 28 04:47	0°♈	
evening set	6100 Mar 21 10:09	16°♈32'46	
	6100 Apr 07 11:47	0°♉	
	6100 May 15 09:33	0°♊	
conjunction	6100 May 29 12:25	11°♊06'05	-0°11'26
minimum elong	6100 May 29 13:37	11°♊08'27	0°11'26
behind sun begin	6100 May 28 16:05	10°♊26'15	
behind sun end	6100 May 30 11:10	11°♊50'37	
asc. node	6100 Jun 14 17:53	23°♊44'56	
	6100 Jun 22 20:13	0°♋	
max. Earth dist.	6100 Jul 20 09:40	20°♋55'16	2.40033 AU
	6100 Aug 01 15:01	0°♌	
morning rise	6100 Aug 07 00:53	3°♌58'38	
	6100 Sep 12 09:36	0°♍	
	6100 Oct 26 16:21	0°♎	
	6100 Dec 13 04:02	0°♏	
	6101 Feb 04 07:33	0°♐	
retrograde	6101 Apr 26 14:44	26°♐18'31	
opposition	6101 Jun 04 22:39	17°♐14'07	0°20'00
greatest brilliancy	6101 Jun 04 23:59	17°♐12'49	-1.4m
min. Earth dist.	6101 Jun 08 18:24	15°♐44'49	0.65467 AU
desc. node	6101 Jun 14 04:52	13°♐41'09	
direct	6101 Jul 16 13:09	7°♐11'17	
	6101 Sep 26 16:46	0°♑	
	6101 Nov 16 07:04	0°♒	
	6101 Dec 29 16:18	0°♓	