

conjunction	14601 May 09 04:13	28° ♄ 33'02	-1°12'02		14606 Jan 11 01:36	0° ♄	
minimum elong	14601 May 09 04:17	28° ♄ 33'08	1°12'51		14606 Feb 21 01:57	0° \approx	
	14601 May 11 09:59	0° ♄			14606 Apr 06 07:39	0° ♄	
morning rise	14601 Jun 22 14:30	27° ♄ 43'54			14606 May 26 14:46	0° ♄	
	14601 Jun 25 23:55	0° ♄		desc. node	14606 Jun 06 13:47	5° ♄ 42'14	
	14601 Aug 08 22:51	0° ♄		retrograde	14606 Aug 15 03:38	26° ♄ 59'18	
	14601 Sep 20 06:28	0° ♄		opposition	14606 Sep 24 23:56	17° ♄ 09'21	-3°38'51
	14601 Oct 31 03:24	0° ♄		min. Earth dist.	14606 Sep 24 03:14	17° ♄ 29'49	0.68309 AU
asc. node	14601 Nov 01 22:37	1° ♄ 20'31		greatest brilliancy	14606 Sep 24 19:52	17° ♄ 13'23	-1.3m
	14601 Dec 10 02:13	0° ♄		direct	14606 Nov 04 23:09	7° ♄ 26'14	
	14602 Jan 19 04:06	0° ♄			14607 Jan 18 09:44	0° ♄	
	14602 Mar 02 12:07	0° ♄			14607 Mar 13 12:38	0° ♄	
	14602 Apr 23 19:30	0° \approx			14607 Apr 29 07:29	0° ♄	
retrograde	14602 Jun 02 15:52	9° \approx 46'27			14607 Jun 11 03:34	0° ♄	
min. Earth dist.	14602 Jul 02 19:29	3° \approx 32'41	0.51385 AU	asc. node	14607 Jun 23 17:44	9° ♄ 13'13	
opposition	14602 Jul 10 17:26	0° \approx 35'47	2°32'01		14607 Jul 21 08:25	0° ♄	
greatest brilliancy	14602 Jul 10 00:29	0° \approx 51'35	-2.1m	evening set	14607 Aug 07 06:31	13° ♄ 03'16	
	14602 Jul 12 08:08	30° ♄			14607 Aug 28 21:33	0° ♄	
direct	14602 Aug 14 14:21	23° ♄ 03'30			14607 Oct 05 17:25	0° ♄	
desc. node	14602 Sep 01 04:35	24° ♄ 52'11					
	14602 Sep 19 23:53	0° \approx		conjunction	14607 Oct 17 15:35	9° ♄ 27'16	1°03'46
	14602 Nov 23 23:04	0° ♄		minimum elong	14607 Oct 17 13:01	9° ♄ 22'12	1°04'19
	14603 Jan 16 00:50	0° ♄			14607 Nov 12 18:14	0° ♄	
	14603 Mar 06 19:12	0° ♄		max. Earth dist.	14607 Dec 05 05:03	17° ♄ 21'55	2.37769 AU
	14603 Apr 23 05:57	0° ♄			14607 Dec 21 20:42	0° ♄	
evening set	14603 May 01 04:54	5° ♄ 10'22		morning rise	14607 Dec 28 18:22	5° ♄ 10'13	
max. Earth dist.	14603 May 21 04:49	18° ♄ 22'05	2.58453 AU		14608 Jan 31 18:58	0° \approx	
	14603 Jun 07 11:24	0° ♄			14608 Mar 15 04:55	0° ♄	
				desc. node	14608 Apr 23 07:37	25° ♄ 18'27	
conjunction	14603 Jun 16 16:56	6° ♄ 18'32	-0°54'38		14608 Apr 30 21:20	0° ♄	
minimum elong	14603 Jun 16 18:27	6° ♄ 21'10	0°55'39		14608 Jun 22 01:02	0° ♄	
	14603 Jul 20 12:46	0° ♄		retrograde	14608 Sep 17 20:34	29° ♄ 29'55	
morning rise	14603 Aug 06 09:32	12° ♄ 08'57		opposition	14608 Oct 27 18:43	20° ♄ 13'56	-4°47'51
	14603 Aug 30 15:15	0° ♄		greatest brilliancy	14608 Oct 28 05:53	20° ♄ 03'02	-1.3m
asc. node	14603 Sep 19 12:19	14° ♄ 57'24		min. Earth dist.	14608 Oct 30 19:32	19° ♄ 02'51	0.66987 AU
	14603 Oct 09 04:28	0° ♄		direct	14608 Dec 08 10:18	10° ♄ 11'58	
	14603 Nov 16 19:14	0° ♄			14609 Feb 13 00:49	0° ♄	
	14603 Dec 25 08:04	0° ♄			14609 Apr 06 06:26	0° ♄	
	14604 Feb 02 21:38	0° ♄		asc. node	14609 May 10 19:34	23° ♄ 10'08	
	14604 Mar 16 03:08	0° \approx			14609 May 20 11:18	0° ♄	
	14604 May 03 19:28	0° ♄			14609 Jun 29 23:54	0° ♄	
retrograde	14604 Jul 11 14:40	22° ♄ 35'58			14609 Aug 07 14:05	0° ♄	
desc. node	14604 Jul 19 12:05	22° ♄ 10'36			14609 Sep 14 11:30	0° ♄	
min. Earth dist.	14604 Aug 16 08:41	14° ♄ 27'21	0.62878 AU	evening set	14609 Oct 22 23:52	0° ♄ 13'01	
opposition	14604 Aug 21 00:47	12° ♄ 36'53	-1°19'26		14609 Oct 22 17:09	0° ♄	
greatest brilliancy	14604 Aug 20 18:33	12° ♄ 43'02	-1.5m		14609 Dec 01 03:43	0° ♄	
direct	14604 Sep 28 19:36	3° ♄ 38'54					
	14604 Dec 20 12:42	0° ♄		conjunction	14609 Dec 27 03:13	19° ♄ 03'25	0°42'08
	14605 Feb 13 09:11	0° ♄		minimum elong	14609 Dec 27 05:35	19° ♄ 07'42	0°43'07
	14605 Apr 03 08:55	0° ♄			14610 Jan 11 10:20	0° \approx	
	14605 May 18 20:02	0° ♄		max. Earth dist.	14610 Feb 03 19:16	16° \approx 19'24	2.51860 AU
evening set	14605 Jun 10 19:15	15° ♄ 55'36		morning rise	14610 Feb 20 17:39	27° \approx 51'40	
max. Earth dist.	14605 Jun 24 11:54	25° ♄ 39'57	2.46055 AU		14610 Feb 23 21:53	0° ♄	
	14605 Jun 30 12:14	0° ♄		desc. node	14610 Mar 10 18:26	9° ♄ 53'58	
					14610 Apr 10 17:53	0° ♄	
conjunction	14605 Aug 04 22:04	26° ♄ 10'55	-0°00'47		14610 May 29 05:07	0° ♄	
minimum elong	14605 Aug 04 22:12	26° ♄ 11'10	0°01'27		14610 Jul 20 18:38	0° ♄	
behind sun begin	14605 Aug 03 21:00	25° ♄ 23'41			14610 Sep 26 18:50	0° ♄	
behind sun end	14605 Aug 05 23:23	26° ♄ 58'42		retrograde	14610 Oct 27 19:40	4° ♄ 59'04	
asc. node	14605 Aug 06 00:25	27° ♄ 00'39			14610 Nov 25 07:00	30° ♄	
	14605 Aug 09 23:12	0° ♄		opposition	14610 Dec 04 09:58	26° ♄ 43'04	-4°33'30
	14605 Sep 17 20:18	0° ♄		greatest brilliancy	14610 Dec 05 13:22	26° ♄ 17'12	-1.7m
morning rise	14605 Oct 10 08:34	17° ♄ 42'27		min. Earth dist.	14610 Dec 11 06:13	24° ♄ 08'27	0.58865 AU
	14605 Oct 25 21:42	0° ♄		direct	14611 Jan 13 23:21	16° ♄ 58'34	
	14605 Dec 03 00:06	0° ♄			14611 Mar 04 09:22	0° ♄	

asc. node	14611 Mar 29 02:22	12°☾53'53		max. Earth dist.	14616 Apr 17 12:33	10°♄23'53	2.67719 AU
	14611 Apr 25 15:43	0°♊					
	14611 Jun 07 05:46	0°♍		conjunction	14616 Apr 25 12:39	15°♄29'58	-1°10'51
	14611 Jul 16 16:27	0°♌		minimum elong	14616 Apr 25 12:11	15°♄29'14	1°11'31
	14611 Aug 24 04:10	0°♍			14616 May 18 03:06	0°♊	
	14611 Oct 02 01:04	0°♈		morning rise	14616 Jun 07 23:15	13°♊31'17	
	14611 Nov 11 05:08	0°♏			14616 Jul 03 00:29	0°☾	
evening set	14611 Dec 23 23:39	0°≈31'50			14616 Aug 16 13:25	0°♊	
	14611 Dec 23 05:23	0°≈			14616 Sep 28 16:05	0°♍	
desc. node	14612 Jan 26 07:03	23°≈19'57			14616 Nov 09 12:07	0°♌	
	14612 Feb 05 05:57	0°♋		asc. node	14616 Nov 18 16:55	6°♌41'36	
					14616 Dec 20 14:41	0°♍	
conjunction	14612 Feb 13 18:32	5°♋39'47	-0°10'50		14617 Jan 31 10:49	0°♈	
minimum elong	14612 Feb 13 18:06	5°♋39'05	0°10'19		14617 Mar 19 13:00	0°♏	
behind sun begin	14612 Feb 13 02:21	5°♋13'01		retrograde	14617 May 14 15:45	18°♏17'49	
behind sun end	14612 Feb 14 09:51	6°♋05'07		min. Earth dist.	14617 Jun 11 10:24	12°♏58'21	0.45830 AU
max. Earth dist.	14612 Mar 04 03:25	18°♋22'36	2.62544 AU	opposition	14617 Jun 19 19:28	10°♏02'48	4°29'07
	14612 Mar 22 02:34	0°♐		greatest brilliancy	14617 Jun 18 12:49	10°♏29'40	-2.4m
morning rise	14612 Mar 31 13:40	6°♐03'42		direct	14617 Jul 22 14:20	3°♏21'42	
	14612 May 08 11:37	0°♄		desc. node	14617 Sep 17 13:44	18°♏47'17	
	14612 Jun 26 05:42	0°♊			14617 Oct 10 18:48	0°≈	
	14612 Aug 15 23:02	0°☾			14617 Dec 04 05:11	0°♋	
	14612 Oct 10 23:11	0°♊			14618 Jan 23 22:17	0°♐	
retrograde	14612 Dec 19 22:00	20°♊56'27			14618 Mar 13 19:56	0°♄	
opposition	14613 Jan 22 02:27	14°♊28'33	-1°23'04	evening set	14618 Apr 16 23:04	21°♄34'39	
greatest brilliancy	14613 Jan 22 15:35	14°♊17'36	-2.4m		14618 Apr 30 00:45	0°♊	
min. Earth dist.	14613 Jan 30 17:17	11°♊36'41	0.45314 AU	max. Earth dist.	14618 May 10 19:33	7°♊01'28	2.62076 AU
asc. node	14613 Feb 13 12:00	7°♊56'23					
direct	14613 Feb 27 09:51	6°♊33'50		conjunction	14618 May 31 22:05	20°♊58'29	-1°05'15
	14613 May 03 23:44	0°♍		minimum elong	14618 May 31 23:06	21°♊00'12	1°06'14
	14613 Jun 18 05:15	0°♌			14618 Jun 14 08:19	0°☾	
	14613 Jul 29 08:20	0°♍		morning rise	14618 Jul 18 08:16	23°☾24'35	
	14613 Sep 08 02:35	0°♈			14618 Jul 27 16:51	0°♊	
	14613 Oct 19 22:02	0°♏			14618 Sep 07 04:54	0°♍	
	14613 Dec 02 08:28	0°≈		asc. node	14618 Oct 06 07:22	21°♍44'56	
desc. node	14613 Dec 13 01:37	7°≈13'14			14618 Oct 17 04:15	0°♌	
	14614 Jan 16 11:17	0°♋			14618 Nov 25 04:20	0°♍	
evening set	14614 Feb 05 01:40	12°♋44'44			14619 Jan 03 02:14	0°♈	
	14614 Mar 03 21:57	0°♐			14619 Feb 12 05:03	0°♏	
					14619 Mar 27 20:25	0°≈	
conjunction	14614 Mar 22 18:20	12°♐00'54	-0°51'05		14619 May 23 03:16	0°♋	
minimum elong	14614 Mar 22 17:06	11°♐58'58	0°51'11	retrograde	14619 Jun 28 02:40	7°♋38'07	
max. Earth dist.	14614 Mar 27 06:58	14°♐53'32	2.67902 AU	min. Earth dist.	14619 Jul 31 19:36	0°♋09'43	0.58997 AU
	14614 Apr 20 02:56	0°♄			14619 Aug 01 05:41	30°♋≈	
morning rise	14614 May 05 04:15	9°♄31'29		opposition	14619 Aug 06 21:36	27°≈47'28	-0°02'20
	14614 Jun 06 12:59	0°♊		desc. node	14619 Aug 06 00:19	28°≈08'14	
	14614 Jul 23 19:43	0°☾		greatest brilliancy	14619 Aug 06 21:30	27°≈47'35	-1.7m
	14614 Sep 08 22:14	0°♊		direct	14619 Sep 13 09:10	19°≈16'43	
	14614 Oct 26 05:32	0°♍			14619 Oct 30 21:21	0°♋	
	14614 Dec 14 08:48	0°♌			14620 Jan 01 04:37	0°♐	
asc. node	14615 Jan 01 19:00	10°♌19'39			14620 Feb 22 07:43	0°♄	
	14615 Feb 17 23:47	0°♍			14620 Apr 10 13:01	0°♊	
retrograde	14615 Mar 09 04:39	2°♍23'29		evening set	14620 May 24 10:40	29°♊02'24	
	14615 Mar 28 18:55	30°♋♌			14620 May 25 20:30	0°☾	
opposition	14615 Apr 07 20:39	27°♌27'34	6°20'47	max. Earth dist.	14620 Jun 08 12:37	9°☾24'21	2.51351 AU
min. Earth dist.	14615 Apr 07 01:40	27°♌40'11	0.36355 AU		14620 Jul 07 15:32	0°♊	
greatest brilliancy	14615 Apr 07 14:31	27°♌31'39	-3.0m				
direct	14615 May 07 01:43	22°♌37'28		conjunction	14620 Jul 14 04:19	4°♊43'26	-0°26'18
	14615 Jun 10 21:25	0°♍		minimum elong	14620 Jul 14 05:47	4°♊46'06	0°27'11
	14615 Aug 07 07:21	0°♈			14620 Aug 17 07:44	0°♍	
	14615 Sep 24 07:27	0°♏		asc. node	14620 Aug 22 20:15	4°♍10'28	
desc. node	14615 Oct 31 04:00	23°♏30'33		morning rise	14620 Sep 11 03:48	18°♍56'47	
	14615 Nov 10 08:32	0°≈			14620 Sep 25 10:13	0°♌	
	14615 Dec 27 17:44	0°♋			14620 Nov 02 15:41	0°♍	
	14616 Feb 13 11:31	0°♐			14620 Dec 10 20:34	0°♈	
evening set	14616 Mar 12 19:21	17°♐48'11			14621 Jan 19 00:15	0°♏	
	14616 Apr 01 03:09	0°♄			14621 Mar 01 06:14	0°≈	

	14621 Apr 15 08:50	0°♏		14626 Jun 16 08:37	0°♐	
	14621 Jun 08 22:07	0°♑		14626 Jul 25 07:21	0°♑	
desc. node	14621 Jun 23 04:22	5°♑55'58		14626 Sep 01 10:58	0°♒	
retrograde	14621 Aug 01 23:15	14°♑18'28		14626 Oct 09 23:46	0°♓	
min. Earth dist.	14621 Sep 09 10:54	5°♑17'30 0.66974 AU		14626 Nov 18 19:07	0°♓	
opposition	14621 Sep 11 19:37	4°♑21'22 -2°53'58	evening set	14626 Dec 02 18:07	10°♓13'04	
greatest brilliancy	14621 Sep 11 12:26	4°♑28'29 -1.3m		14626 Dec 30 10:46	0°♓	
	14621 Sep 23 09:05	30°♒♏				
direct	14621 Oct 22 02:22	24°♒52'29	conjunction	14627 Jan 27 17:31	19°♓33'36 0°09'08	
	14621 Nov 22 17:09	0°♑	minimum elong	14627 Jan 27 18:01	19°♓34'26 0°09'53	
	14622 Jan 29 09:13	0°♒	behind sun begin	14627 Jan 27 00:42	19°♓04'59	
	14622 Mar 21 16:41	0°♒	behind sun end	14627 Jan 28 11:19	20°♓03'52	
	14622 May 06 19:07	0°♑	desc. node	14627 Feb 12 00:38	29°♓53'25	
	14622 Jun 18 12:29	0°♒		14627 Feb 12 04:34	0°♏	
asc. node	14622 Jul 10 11:01	16°♒09'12	max. Earth dist.	14627 Feb 22 20:44	7°♏06'48 2.58985 AU	
evening set	14622 Jul 13 00:40	18°♒04'30	morning rise	14627 Mar 18 02:26	22°♏20'58	
	14622 Jul 28 19:05	0°♐		14627 Mar 29 22:51	0°♑	
max. Earth dist.	14622 Aug 08 07:13	8°♐03'20 2.37794 AU		14627 May 16 14:11	0°♒	
	14622 Sep 05 10:49	0°♑		14627 Jul 05 07:52	0°♒	
				14627 Aug 27 23:41	0°♑	
conjunction	14622 Sep 16 02:44	8°♑24'46 0°44'26		14627 Nov 12 23:15	0°♒	
minimum elong	14622 Sep 15 22:55	8°♑17'14 0°44'26	retrograde	14627 Nov 27 04:40	1°♒09'49	
	14622 Oct 13 08:09	0°♒		14627 Dec 10 19:19	30°♒♑	
	14622 Nov 20 08:32	0°♓	opposition	14628 Jan 01 10:14	23°♑51'57 -3°10'17	
morning rise	14622 Nov 29 20:08	7°♓23'12	greatest brilliancy	14628 Jan 02 12:45	23°♑28'18 -2.1m	
	14622 Dec 29 09:12	0°♓	min. Earth dist.	14628 Jan 09 23:09	20°♑49'37 0.51018 AU	
	14623 Feb 08 06:02	0°♓	direct	14628 Feb 08 23:18	14°♑56'25	
	14623 Mar 23 19:07	0°♏	asc. node	14628 Mar 02 00:40	18°♑07'29	
	14623 May 10 06:36	0°♑		14628 Mar 31 14:43	0°♒	
desc. node	14623 May 11 00:29	0°♑26'39		14628 May 19 15:00	0°♐	
	14623 Jul 05 04:04	0°♒		14628 Jun 30 00:19	0°♑	
retrograde	14623 Sep 05 00:50	16°♒58'17		14628 Aug 08 13:26	0°♒	
opposition	14623 Oct 15 11:38	7°♒26'30 -4°29'23		14628 Sep 17 06:26	0°♓	
greatest brilliancy	14623 Oct 15 16:02	7°♒22'10 -1.2m		14628 Oct 28 05:20	0°♓	
min. Earth dist.	14623 Oct 16 23:59	6°♒50'48 0.68322 AU		14628 Dec 09 22:46	0°♓	
	14623 Nov 06 01:22	30°♒♑	desc. node	14628 Dec 29 15:51	13°♓24'37	
direct	14623 Nov 26 01:23	27°♑28'40	evening set	14629 Jan 20 06:11	27°♓50'08	
	14623 Dec 17 08:25	0°♒		14629 Jan 23 12:46	0°♏	
	14624 Feb 25 23:12	0°♒				
	14624 Apr 15 01:24	0°♑	conjunction	14629 Mar 08 17:04	28°♏44'39 -0°37'45	
asc. node	14624 May 27 08:46	29°♑10'16	minimum elong	14629 Mar 08 15:54	28°♏42'48 0°37'37	
	14624 May 28 12:24	0°♒		14629 Mar 10 16:00	0°♑	
	14624 Jul 07 20:01	0°♐	max. Earth dist.	14629 Mar 18 17:08	5°♑09'13 2.66457 AU	
	14624 Aug 15 08:46	0°♑	morning rise	14629 Apr 21 23:45	26°♑55'37	
evening set	14624 Sep 22 07:53	0°♒06'15		14629 Apr 26 20:33	0°♒	
	14624 Sep 22 04:44	0°♒		14629 Jun 13 15:23	0°♒	
	14624 Oct 30 07:31	0°♓		14629 Jul 31 20:49	0°♑	
				14629 Sep 18 22:32	0°♒	
conjunction	14624 Dec 02 10:57	25°♓24'16 0°59'34		14629 Nov 09 16:57	0°♐	
minimum elong	14624 Dec 02 13:32	25°♓29'08 1°00'35	asc. node	14630 Jan 18 07:50	29°♐12'46	
	14624 Dec 08 13:48	0°♓		14630 Jan 22 22:53	0°♑	
	14625 Jan 18 15:41	0°♓	retrograde	14630 Feb 03 21:25	0°♑52'36	
max. Earth dist.	14625 Jan 19 01:15	0°♓17'01 2.46442 AU		14630 Feb 15 15:01	30°♒♐	
morning rise	14625 Feb 01 22:47	10°♓04'41	opposition	14630 Mar 05 21:27	25°♐47'08 3°21'47	
	14625 Mar 03 00:24	0°♏	greatest brilliancy	14630 Mar 06 09:51	25°♐38'29 -2.9m	
desc. node	14625 Mar 27 14:04	16°♏15'26	min. Earth dist.	14630 Mar 10 18:48	24°♐25'28 0.37955 AU	
	14625 Apr 18 00:11	0°♑	direct	14630 Apr 06 05:36	20°♐06'08	
	14625 Jun 06 08:44	0°♒		14630 May 16 05:15	0°♑	
	14625 Aug 01 11:17	0°♒		14630 Jul 07 20:22	0°♒	
retrograde	14625 Oct 11 04:41	20°♒38'37		14630 Aug 21 17:11	0°♓	
opposition	14625 Nov 18 21:53	11°♒54'54 -4°52'01		14630 Oct 04 23:03	0°♓	
greatest brilliancy	14625 Nov 19 19:57	11°♒33'42 -1.5m	desc. node	14630 Nov 16 16:32	28°♓26'26	
min. Earth dist.	14625 Nov 24 07:40	9°♒50'20 0.62847 AU		14630 Nov 19 01:28	0°♓	
direct	14625 Dec 30 04:02	1°♒56'55		14631 Jan 04 07:20	0°♏	
	14626 Mar 19 21:29	0°♑		14631 Feb 20 09:50	0°♑	
asc. node	14626 Apr 14 15:26	15°♑43'26	evening set	14631 Feb 27 23:06	4°♑46'51	
	14626 May 05 23:29	0°♒		14631 Apr 08 19:31	0°♒	

max. Earth dist.	14631 Apr 09 21:35	0°♄41'18	2.68448 AU	desc. node	14636 Jul 09 18:00	0°♄26'10	
				retrograde	14636 Jul 19 12:26	1°♄02'31	
conjunction	14631 Apr 13 01:57	2°♄42'22	-1°05'56		14636 Jul 31 23:12	30°♄♂	
minimum elong	14631 Apr 13 01:04	2°♄40'57	1°06'24	min. Earth dist.	14636 Aug 25 07:10	22°♄♂33'58	0.64609 AU
	14631 May 25 21:39	0°♄		opposition	14636 Aug 29 03:33	21°♄♂02'40	-1°57'55
morning rise	14631 May 26 03:06	0°♄08'44		greatest brilliancy	14636 Aug 28 19:55	21°♄♂10'14	-1.4m
	14631 Jul 11 05:12	0°♄		direct	14636 Oct 07 12:28	11°♄♂52'17	
	14631 Aug 25 12:22	0°♄			14636 Dec 12 01:26	0°♄	
	14631 Oct 08 17:21	0°♄			14637 Feb 07 16:03	0°♄	
	14631 Nov 21 01:11	0°♄			14637 Mar 29 08:58	0°♄	
asc. node	14631 Dec 06 10:02	10°♄42'14			14637 May 14 01:23	0°♄	
	14632 Jan 03 08:50	0°♄		evening set	14637 Jun 21 13:57	26°♄♂58'49	
	14632 Feb 19 01:12	0°♄			14637 Jun 25 18:22	0°♄	
retrograde	14632 Apr 22 07:04	22°♄♂19'42		max. Earth dist.	14637 Jul 05 18:10	7°♄♂16'58	2.42976 AU
min. Earth dist.	14632 May 18 07:02	17°♄♂48'00	0.40657 AU	asc. node	14637 Jul 27 06:03	23°♄♂15'33	
greatest brilliancy	14632 May 24 04:58	15°♄♂57'19	-2.7m		14637 Aug 05 03:54	0°♄	
opposition	14632 May 25 17:55	15°♄♂28'11	6°20'23				
direct	14632 Jun 25 11:36	9°♄♂45'49		conjunction	14637 Aug 18 21:40	10°♄♂30'47	0°15'48
	14632 Aug 30 02:49	0°♄		minimum elong	14637 Aug 18 20:21	10°♄♂28'15	0°15'21
desc. node	14632 Oct 04 00:33	18°♄♂39'27		behind sun begin	14637 Aug 18 11:38	10°♄♂11'28	
	14632 Oct 23 19:16	0°♄		behind sun end	14637 Aug 19 05:05	10°♄♂45'02	
	14632 Dec 13 05:21	0°♄			14637 Sep 12 23:00	0°♄	
	14633 Jan 31 10:19	0°♄			14637 Oct 20 22:41	0°♄	
	14633 Mar 20 17:10	0°♄		morning rise	14637 Oct 28 12:20	5°♄♂59'44	
evening set	14633 Apr 03 03:53	8°♄♂28'59			14637 Nov 27 23:43	0°♄	
max. Earth dist.	14633 May 01 10:09	26°♄♂32'37	2.64920 AU		14638 Jan 05 23:58	0°♄	
	14633 May 06 18:30	0°♄			14638 Feb 15 21:35	0°♄	
					14638 Mar 31 18:09	0°♄	
conjunction	14633 May 17 05:31	6°♄♄48'05	-1°10'52		14638 May 19 14:49	0°♄	
minimum elong	14633 May 17 05:56	6°♄♄48'46	1°11'46	desc. node	14638 May 27 17:28	4°♄♄31'01	
	14633 Jun 21 06:12	0°♄			14638 Jul 24 11:47	0°♄	
morning rise	14633 Jul 01 11:58	6°♄♄54'49		retrograde	14638 Aug 22 16:34	4°♄♄36'17	
	14633 Aug 04 00:10	0°♄			14638 Sep 18 15:59	30°♄♄♂	
	14633 Sep 15 00:36	0°♄		opposition	14638 Oct 02 10:50	24°♄♄52'01	-4°00'30
asc. node	14633 Oct 23 03:48	28°♄♄12'10		greatest brilliancy	14638 Oct 02 09:22	24°♄♄53'27	-1.2m
	14633 Oct 25 13:16	0°♄		min. Earth dist.	14638 Oct 02 10:35	24°♄♄52'16	0.68617 AU
	14633 Dec 04 02:32	0°♄		direct	14638 Nov 12 16:30	15°♄♄02'34	
	14634 Jan 12 15:02	0°♄			14639 Jan 09 11:49	0°♄	
	14634 Feb 22 19:09	0°♄			14639 Mar 07 16:41	0°♄	
	14634 Apr 10 19:00	0°♄			14639 Apr 24 04:19	0°♄	
retrograde	14634 Jun 12 08:58	20°♄♄52'50			14639 Jun 06 05:45	0°♄	
min. Earth dist.	14634 Jul 13 19:40	14°♄♄11'03	0.54274 AU	asc. node	14639 Jun 14 01:21	5°♄♄41'36	
opposition	14634 Jul 21 04:27	11°♄♄22'57	1°30'49		14639 Jul 16 11:47	0°♄	
greatest brilliancy	14634 Jul 20 18:54	11°♄♄32'03	-2.0m	evening set	14639 Aug 23 06:30	29°♄♄23'52	
desc. node	14634 Aug 22 10:29	3°♄♄32'15			14639 Aug 24 00:49	0°♄	
direct	14634 Aug 26 02:11	3°♄♄27'09			14639 Sep 30 20:26	0°♄	
	14634 Nov 16 01:51	0°♄					
	14635 Jan 10 08:02	0°♄		conjunction	14639 Nov 04 09:12	27°♄♄15'58	1°06'59
	14635 Mar 01 19:39	0°♄		minimum elong	14639 Nov 04 09:02	27°♄♄15'37	1°07'47
	14635 Apr 18 12:35	0°♄			14639 Nov 07 21:09	0°♄	
evening set	14635 May 09 16:42	13°♄♄50'17			14639 Dec 16 23:52	0°♄	
max. Earth dist.	14635 May 27 16:42	25°♄♄52'17	2.56090 AU	max. Earth dist.	14639 Dec 28 12:54	8°♄♄37'02	2.40691 AU
	14635 Jun 02 18:49	0°♄		morning rise	14640 Jan 12 00:13	19°♄♄15'04	
					14640 Jan 26 22:07	0°♄	
conjunction	14635 Jun 26 10:17	16°♄♄19'03	-0°45'58		14640 Mar 10 05:47	0°♄	
minimum elong	14635 Jun 26 11:59	16°♄♄22'00	0°46'57	desc. node	14640 Apr 13 08:10	22°♄♄18'13	
	14635 Jul 15 18:14	0°♄			14640 Apr 25 13:21	0°♄	
morning rise	14635 Aug 18 14:17	24°♄♄41'21			14640 Jun 15 08:03	0°♄	
	14635 Aug 25 17:10	0°♄			14640 Aug 18 14:12	0°♄	
asc. node	14635 Sep 09 15:37	11°♄♄15'21		retrograde	14640 Sep 26 01:06	7°♄♄20'11	
	14635 Oct 04 02:38	0°♄			14640 Oct 31 00:58	30°♄♄♂	
	14635 Nov 11 13:59	0°♄		opposition	14640 Nov 04 14:48	28°♄♄14'34	-4°53'19
	14635 Dec 19 23:18	0°♄		greatest brilliancy	14640 Nov 05 05:59	27°♄♄59'48	-1.3m
	14636 Jan 28 07:50	0°♄		min. Earth dist.	14640 Nov 08 12:20	26°♄♄43'44	0.65803 AU
	14636 Mar 10 01:04	0°♄		direct	14640 Dec 16 05:10	18°♄♄12'14	
	14636 Apr 25 19:42	0°♄			14641 Feb 02 21:26	0°♄	
	14636 Jul 06 15:01	0°♄			14641 Mar 31 00:10	0°♄	

asc. node	14641 May 01 03:34	20°☾21'21	conjunction	14646 Mar 30 14:01	19°♄54'47	-0°57'32
	14641 May 15 00:14	0°♌	minimum elong	14646 Mar 30 12:52	19°♄52'56	0°57'47
	14641 Jun 24 19:10	0°♍	max. Earth dist.	14646 Apr 01 06:12	20°♄58'28	2.68328 AU
	14641 Aug 02 12:06	0°♊		14646 Apr 15 12:02	0°♈	
	14641 Sep 09 11:23	0°♋	morning rise	14646 May 12 17:46	17°♈16'11	
	14641 Oct 17 18:51	0°♈		14646 Jun 01 18:26	0°♊	
evening set	14641 Nov 07 18:36	16°♈04'45		14646 Jul 18 15:36	0°☾	
	14641 Nov 26 07:29	0°♊		14646 Sep 02 23:41	0°♌	
	14642 Jan 06 16:05	0°♋		14646 Oct 18 21:04	0°♍	
				14646 Dec 03 23:54	0°♊	
conjunction	14642 Jan 08 08:36	1°♋11'37	asc. node	14646 Dec 23 01:17	12°♊02'53	
minimum elong	14642 Jan 08 10:19	1°♋14'39		14647 Jan 22 10:18	0°♋	
max. Earth dist.	14642 Feb 11 06:10	24°♋39'01	retrograde	14647 Mar 26 22:46	21°♋23'13	
	14642 Feb 19 04:18	0°♈	min. Earth dist.	14647 Apr 22 13:03	17°♋04'45	0.37079 AU
desc. node	14642 Feb 28 19:42	6°♈26'47	opposition	14647 Apr 26 11:57	15°♋59'48	7°02'32
morning rise	14642 Mar 02 09:20	7°♈29'18	greatest brilliancy	14647 Apr 25 13:19	16°♋15'19	-3.0m
	14642 Apr 05 22:02	0°♄	direct	14647 May 25 13:54	11°♋05'12	
	14642 May 23 23:30	0°♈		14647 Jul 25 17:39	0°♈	
	14642 Jul 14 04:59	0°♊		14647 Sep 16 12:44	0°♊	
	14642 Sep 11 17:59	0°☾	desc. node	14647 Oct 21 10:43	21°♊25'24	
retrograde	14642 Nov 07 01:28	14°☾13'53		14647 Nov 04 06:30	0°♋	
opposition	14642 Dec 13 22:13	6°☾16'13		14647 Dec 22 11:30	0°♈	
greatest brilliancy	14642 Dec 15 03:07	5°☾49'21		14648 Feb 08 15:43	0°♄	
min. Earth dist.	14642 Dec 21 12:01	3°☾27'39	evening set	14648 Mar 20 13:33	25°♄37'30	
	14642 Dec 31 22:34	30°♋11		14648 Mar 27 12:04	0°♈	
direct	14643 Jan 22 22:24	26°♊44'10	max. Earth dist.	14648 Apr 22 13:08	16°♈32'05	2.66952 AU
	14643 Feb 14 18:48	0°☾				
asc. node	14643 Mar 19 12:00	13°☾05'36	conjunction	14648 May 03 06:27	23°♈24'09	-1°12'04
	14643 Apr 18 01:51	0°♌	minimum elong	14648 May 03 06:17	23°♈23'53	1°12'50
	14643 May 31 23:53	0°♍		14648 May 13 12:15	0°♊	
	14643 Jul 10 22:11	0°♊	morning rise	14648 Jun 16 04:27	21°♊59'34	
	14643 Aug 18 16:37	0°♋		14648 Jun 28 06:03	0°☾	
	14643 Sep 26 18:52	0°♈		14648 Aug 11 11:40	0°♌	
	14643 Nov 06 04:00	0°♊		14648 Sep 23 03:51	0°♍	
	14643 Dec 18 09:01	0°♋		14648 Nov 03 10:33	0°♊	
evening set	14644 Jan 03 19:03	11°♋18'17	asc. node	14648 Nov 08 22:27	4°♊03'16	
desc. node	14644 Jan 16 09:44	19°♋51'42		14648 Dec 13 20:06	0°♋	
	14644 Jan 31 13:01	0°♈		14649 Jan 23 11:48	0°♈	
				14649 Mar 08 02:51	0°♊	
conjunction	14644 Feb 22 18:32	14°♈39'12		14649 May 11 14:12	0°♋	
minimum elong	14644 Feb 22 17:44	14°♈37'54	retrograde	14649 May 25 18:30	1°♋25'50	
max. Earth dist.	14644 Mar 09 15:56	24°♈58'42		14649 Jun 08 16:50	30°♋30	
	14644 Mar 17 10:51	0°♄	min. Earth dist.	14649 Jun 23 19:54	25°♊36'30	0.48934 AU
morning rise	14644 Apr 08 11:52	14°♄05'03	greatest brilliancy	14649 Jul 01 03:06	22°♊57'28	-2.2m
	14644 May 03 17:00	0°♈	opposition	14649 Jul 02 02:04	22°♊36'34	3°20'55
	14644 Jun 21 00:37	0°♊	direct	14649 Aug 05 02:06	15°♊25'43	
	14644 Aug 09 15:07	0°☾	desc. node	14649 Sep 07 20:57	21°♊35'05	
	14644 Oct 01 02:46	0°♌		14649 Sep 29 16:15	0°♋	
	14644 Dec 07 10:56	0°♍		14649 Nov 27 15:43	0°♈	
retrograde	14645 Jan 04 00:30	4°♍14'06		14650 Jan 18 14:43	0°♄	
	14645 Jan 30 11:04	30°♋01		14650 Mar 09 00:13	0°♈	
asc. node	14645 Feb 03 21:35	28°♋38'57	evening set	14650 Apr 24 23:47	29°♈44'53	
opposition	14645 Feb 05 01:52	28°♋16'40		14650 Apr 25 09:08	0°♊	
greatest brilliancy	14644 May 14 23:01	7°♈02'36	max. Earth dist.	14650 May 16 15:03	13°♊53'42	2.60176 AU
min. Earth dist.	14645 Feb 13 01:18	25°♋46'04				
direct	14645 Mar 11 17:37	21°♋06'27	conjunction	14650 Jun 09 16:53	0°☾00'29	-0°59'47
	14645 Apr 18 03:12	0°♍	minimum elong	14650 Jun 09 18:14	0°☾02'46	1°00'48
	14645 Jun 09 08:12	0°♊		14650 Jun 09 16:36	0°☾	
	14645 Jul 22 05:00	0°♋		14650 Jul 22 22:16	0°♌	
	14645 Sep 01 21:00	0°♈	morning rise	14650 Jul 28 18:44	4°♌10'12	
	14645 Oct 14 07:04	0°♊		14650 Sep 02 05:51	0°♍	
	14645 Nov 27 04:27	0°♋	asc. node	14650 Sep 26 13:15	18°♍13'38	
desc. node	14645 Dec 03 05:24	4°♋02'44		14650 Oct 11 23:57	0°♊	
	14646 Jan 11 14:52	0°♈		14650 Nov 19 18:49	0°♋	
evening set	14646 Feb 13 14:21	21°♈16'24		14650 Dec 28 10:41	0°♈	
	14646 Feb 27 06:05	0°♄		14651 Feb 06 03:50	0°♊	
				14651 Mar 20 18:41	0°♋	

	14651 May 10 07:25	0° H			14656 May 23 08:00	0° Q	
retrograde	14651 Jul 06 13:00	16° H 52'24			14656 Jul 02 19:25	0° M	
desc. node	14651 Jul 27 05:06	13° H 55'10			14656 Aug 10 09:21	0° A	
min. Earth dist.	14651 Aug 10 09:52	9° H 00'40	0.61269 AU	greatest brilliancy	14656 Sep 06 00:40	21° A 05'51	1.2m
opposition	14651 Aug 15 16:59	6° H 55'51	-0°49'15		14656 Sep 17 06:03	0° M	
greatest brilliancy	14651 Aug 15 12:37	7° H 00'09	-1.6m	evening set	14656 Oct 09 20:21	17° M 50'32	
	14651 Sep 05 22:33	30° R \approx			14656 Oct 25 09:45	0° X	
direct	14651 Sep 22 22:31	28° \approx 09'00			14656 Dec 03 17:14	0° Z	
	14651 Oct 11 01:21	0° H					
	14651 Dec 25 08:22	0° Y		conjunction	14656 Dec 16 21:24	9° Z 46'15	0°50'20
	14652 Feb 16 23:25	0° B		minimum elong	14656 Dec 17 00:08	9° Z 51'15	0°51'20
	14652 Apr 05 16:10	0° II			14657 Jan 13 20:27	0° \approx	
	14652 May 21 03:02	0° G		max. Earth dist.	14657 Jan 28 12:04	10° \approx 19'17	2.49504 AU
evening set	14652 Jun 03 01:03	8° G 52'35		morning rise	14657 Feb 12 22:12	20° \approx 58'47	
max. Earth dist.	14652 Jun 16 24:00	18° G 38'37	2.48484 AU		14657 Feb 26 05:03	0° H	
	14652 Jul 02 21:51	0° Q		desc. node	14657 Mar 17 14:59	12° H 54'55	
					14657 Apr 13 00:54	0° Y	
conjunction	14652 Jul 26 00:04	16° Q 53'30	-0°12'21		14657 May 31 18:22	0° B	
minimum elong	14652 Jul 26 00:55	16° Q 55'06	0°13'08		14657 Jul 24 10:30	0° II	
behind sun begin	14652 Jul 25 10:34	16° Q 28'30		retrograde	14657 Oct 20 10:38	29° II 10'54	
behind sun end	14652 Jul 26 15:17	17° Q 21'43		opposition	14657 Nov 27 13:58	20° II 41'49	-4°43'29
	14652 Aug 12 12:12	0° M		greatest brilliancy	14657 Nov 28 15:16	20° II 17'43	-1.6m
asc. node	14652 Aug 13 01:01	0° M 24'13		min. Earth dist.	14657 Dec 03 19:28	18° II 19'42	0.60763 AU
	14652 Sep 20 12:20	0° A		direct	14658 Jan 07 12:14	10° II 49'52	
morning rise	14652 Sep 26 23:36	5° A 03'23			14658 Mar 11 01:00	0° G	
	14652 Oct 28 15:48	0° M		asc. node	14658 Apr 04 23:50	14° G 08'28	
greatest brilliancy	14652 Nov 20 00:28	17° M 38'25	1.2m		14658 Apr 29 15:03	0° Q	
	14652 Dec 05 18:50	0° X			14658 Jun 10 16:23	0° M	
	14653 Jan 13 20:03	0° Z			14658 Jul 19 21:48	0° A	
	14653 Feb 23 20:48	0° \approx			14658 Aug 27 05:37	0° M	
	14653 Apr 09 07:14	0° H			14658 Oct 04 22:03	0° X	
	14653 May 30 18:10	0° Y			14658 Nov 13 20:50	0° Z	
desc. node	14653 Jun 13 07:49	6° Y 36'54		evening set	14658 Dec 15 03:08	22° Z 34'41	
retrograde	14653 Aug 09 12:57	22° Y 08'20			14658 Dec 25 15:50	0° \approx	
min. Earth dist.	14653 Sep 17 21:25	12° Y 50'51	0.67842 AU	desc. node	14659 Feb 02 02:33	26° \approx 23'08	
opposition	14653 Sep 19 09:52	12° Y 14'48	-3°21'49				
greatest brilliancy	14653 Sep 19 04:07	12° Y 20'29	-1.3m	conjunction	14659 Feb 06 14:59	29° \approx 25'06	-0°02'43
direct	14653 Oct 30 02:03	2° Y 37'25		minimum elong	14659 Feb 06 14:54	29° \approx 24'57	0°02'05
	14654 Jan 22 09:26	0° B		behind sun begin	14659 Feb 05 18:08	28° \approx 50'10	
	14654 Mar 16 06:37	0° II		behind sun end	14659 Feb 07 11:40	29° \approx 59'41	
	14654 May 01 19:49	0° G			14659 Feb 07 11:52	0° H	
	14654 Jun 13 16:12	0° Q		max. Earth dist.	14659 Feb 28 21:11	14° H 10'05	2.61053 AU
asc. node	14654 Jun 30 16:56	12° Q 29'34			14659 Mar 25 06:13	0° Y	
	14654 Jul 23 22:52	0° M		morning rise	14659 Mar 26 11:10	0° Y 46'32	
evening set	14654 Jul 26 17:10	2° M 06'45			14659 May 11 16:43	0° B	
	14654 Aug 31 13:41	0° A			14659 Jun 29 19:05	0° II	
					14659 Aug 20 12:48	0° G	
conjunction	14654 Oct 03 14:40	26° A 10'23	0°57'19		14659 Oct 19 17:27	0° Q	
minimum elong	14654 Oct 03 10:52	26° A 02'51	0°57'38	retrograde	14659 Dec 10 02:35	12° Q 26'03	
	14654 Oct 08 10:21	0° M		opposition	14660 Jan 13 05:21	5° Q 34'41	-2°15'14
max. Earth dist.	14654 Oct 15 00:38	5° M 14'04	2.36204 AU	greatest brilliancy	14660 Jan 14 01:48	5° Q 17'01	-2.3m
	14654 Nov 15 10:30	0° X		min. Earth dist.	14660 Jan 21 22:22	2° Q 34'40	0.47858 AU
morning rise	14654 Dec 16 16:35	24° X 07'00			14660 Jan 30 09:16	30° R G	
	14654 Dec 24 11:07	0° Z		direct	14660 Feb 19 14:51	27° G 09'25	
	14655 Feb 03 07:20	0° \approx		asc. node	14660 Feb 21 08:59	27° G 10'45	
	14655 Mar 18 16:24	0° H			14660 Mar 11 03:59	0° Q	
desc. node	14655 May 01 03:22	27° H 54'15			14660 May 10 22:19	0° M	
	14655 May 04 13:33	0° Y			14660 Jun 23 00:56	0° A	
	14655 Jun 26 19:21	0° B			14660 Aug 02 08:07	0° M	
retrograde	14655 Sep 12 20:29	24° B 37'15			14660 Sep 11 13:13	0° X	
opposition	14655 Oct 23 01:09	15° B 13'52	-4°41'34		14660 Oct 22 21:35	0° Z	
greatest brilliancy	14655 Oct 23 09:16	15° B 05'55	-1.3m		14660 Dec 04 22:56	0° \approx	
min. Earth dist.	14655 Oct 25 10:06	14° B 18'07	0.67715 AU	desc. node	14660 Dec 19 20:22	10° \approx 05'46	
direct	14655 Dec 03 16:40	5° B 13'03			14661 Jan 18 18:34	0° H	
	14656 Feb 18 14:06	0° II		evening set	14661 Jan 29 09:58	6° H 58'16	
	14656 Apr 09 09:37	0° G			14661 Mar 06 01:00	0° Y	
asc. node	14656 May 17 17:21	26° G 00'14					

conjunction	14661 Mar 16 19:10	6°Υ52'48 -0°45'56			14666 Jun 08 09:26	0°⸀	
minimum elong	14661 Mar 16 17:56	6°Υ50'50 0°45'56	retrograde		14666 Jun 21 13:00	1°⸀09'30	
max. Earth dist.	14661 Mar 23 18:37	11°Υ19'36 2.67359 AU			14666 Jul 04 06:29	30°⸀	
	14661 Apr 22 05:08	0°⸀	min. Earth dist.		14666 Jul 24 06:01	24°⸀00'55	0.56977 AU
morning rise	14661 Apr 29 12:43	4°⸀37'25	opposition		14666 Jul 30 21:59	21°⸀26'25	0°34'49
	14661 Jun 08 18:34	0°Π	greatest brilliancy		14666 Jul 30 18:38	21°⸀29'39	-1.8m
	14661 Jul 26 10:38	0°⸀	desc. node		14666 Aug 12 16:53	16°⸀54'05	
	14661 Sep 12 07:21	0°Ω	direct		14666 Sep 05 17:32	13°⸀10'10	
	14661 Oct 31 03:05	0°⸀			14666 Nov 06 15:53	0°⸀	
	14661 Dec 23 12:09	0°⸀			14667 Jan 04 07:49	0°Υ	
asc. node	14662 Jan 08 16:55	7°⸀33'31			14667 Feb 24 17:36	0°⸀	
retrograde	14662 Feb 22 15:01	18°⸀35'10			14667 Apr 13 18:26	0°Π	
opposition	14662 Mar 24 02:09	13°⸀43'47 5°14'49	evening set		14667 May 18 11:52	22°Π49'19	
greatest brilliancy	14662 Mar 24 08:06	13°⸀39'49 -3.0m			14667 May 29 02:45	0°⸀	
min. Earth dist.	14662 Mar 26 00:27	13°⸀12'50 0.36616 AU	max. Earth dist.		14667 Jun 03 16:16	3°⸀47'58	2.53556 AU
direct	14662 Apr 23 00:13	8°⸀39'44					
	14662 Jun 25 06:51	0°⸀	conjunction		14667 Jul 06 17:38	26°⸀55'18 -0°35'25	
	14662 Aug 13 10:36	0°⸀	minimum elong		14667 Jul 06 19:17	26°⸀58'15 0°36'21	
	14662 Sep 28 09:25	0°⸀			14667 Jul 11 00:53	0°Ω	
desc. node	14662 Nov 06 21:29	25°⸀46'03			14667 Aug 20 21:03	0°⸀	
	14662 Nov 13 10:27	0°⸀	asc. node		14667 Aug 30 20:59	7°⸀32'44	
	14662 Dec 30 05:48	0°⸀	morning rise		14667 Aug 31 20:56	8°⸀18'10	
	14663 Feb 15 16:09	0°Υ			14667 Sep 29 03:05	0°⸀	
evening set	14663 Mar 07 22:03	12°Υ45'47			14667 Nov 06 11:13	0°⸀	
	14663 Apr 04 04:58	0°⸀			14667 Dec 14 17:36	0°⸀	
max. Earth dist.	14663 Apr 14 20:55	6°⸀45'40 2.68157 AU			14668 Jan 22 22:02	0°⸀	
					14668 Mar 04 06:24	0°⸀	
conjunction	14663 Apr 20 17:53	10°⸀29'38 -1°09'17			14668 Apr 18 19:43	0°⸀	
minimum elong	14663 Apr 20 17:13	10°⸀28'35 1°09'53			14668 Jun 15 13:19	0°Υ	
	14663 May 21 06:02	0°Π	desc. node		14668 Jun 29 22:45	4°Υ56'45	
morning rise	14663 Jun 02 22:38	8°Π11'17	retrograde		14668 Jul 27 06:47	9°Υ13'33	
	14663 Jul 06 08:23	0°⸀	min. Earth dist.		14668 Sep 03 00:48	0°Υ26'15	0.66041 AU
	14663 Aug 20 05:34	0°Ω			14668 Sep 04 03:21	30°⸀	
	14663 Oct 02 19:44	0°⸀	opposition		14668 Sep 06 01:04	29°⸀14'43 -2°32'20	
	14663 Nov 14 06:04	0°⸀	greatest brilliancy		14668 Sep 05 17:13	29°⸀22'29 -1.4m	
asc. node	14663 Nov 26 16:46	8°⸀54'18	direct		14668 Oct 15 22:11	19°⸀53'30	
	14663 Dec 26 03:37	0°⸀			14668 Dec 01 06:52	0°Υ	
	14664 Feb 07 08:45	0°⸀			14669 Feb 01 13:48	0°⸀	
	14664 Mar 31 08:44	0°⸀			14669 Mar 24 05:13	0°Π	
retrograde	14664 May 05 09:16	8°⸀03'03			14669 May 09 04:53	0°⸀	
min. Earth dist.	14664 Jun 01 05:47	3°⸀07'11 0.43400 AU			14669 Jun 20 23:30	0°Ω	
greatest brilliancy	14664 Jun 07 23:42	0°⸀51'57 -2.5m	evening set		14669 Jul 03 06:29	8°Ω58'08	
opposition	14664 Jun 09 10:50	0°⸀22'25 5°20'39	asc. node		14669 Jul 17 11:18	19°Ω30'55	
	14664 Jun 10 13:45	30°⸀	max. Earth dist.		14669 Jul 21 01:13	22°Ω12'06	2.39997 AU
direct	14664 Jul 11 06:34	24°⸀07'19			14669 Jul 31 08:37	0°⸀	
	14664 Aug 12 15:29	0°⸀					
desc. node	14664 Sep 24 05:58	18°⸀30'18	conjunction		14669 Sep 03 04:59	26°⸀09'37 0°32'32	
	14664 Oct 15 22:49	0°⸀	minimum elong		14669 Sep 03 02:05	26°⸀03'56 0°32'20	
	14664 Dec 07 08:13	0°⸀			14669 Sep 08 02:28	0°⸀	
	14665 Jan 26 08:25	0°Υ			14669 Oct 16 00:59	0°⸀	
	14665 Mar 15 23:42	0°⸀	morning rise		14669 Nov 15 19:59	24°⸀20'25	
evening set	14665 Apr 11 00:07	16°⸀25'21			14669 Nov 23 01:13	0°⸀	
	14665 May 02 03:34	0°Π			14670 Jan 01 00:33	0°⸀	
max. Earth dist.	14665 May 06 19:28	3°Π01'26 2.63450 AU			14670 Feb 10 20:02	0°⸀	
					14670 Mar 26 09:46	0°⸀	
conjunction	14665 May 25 11:35	15°Π15'26 -1°08'12			14670 May 13 06:19	0°Υ	
minimum elong	14665 May 25 12:21	15°Π16'43 1°09'11	desc. node		14670 May 17 20:05	2°Υ40'02	
	14665 Jun 16 13:56	0°⸀			14670 Jul 10 14:16	0°⸀	
morning rise	14665 Jul 10 19:57	16°⸀32'26	retrograde		14670 Aug 30 06:58	12°⸀11'56	
	14665 Jul 30 03:26	0°Ω	opposition		14670 Oct 09 21:44	2°⸀34'15 -4°18'47	
	14665 Sep 09 21:45	0°⸀	greatest brilliancy		14670 Oct 09 23:25	2°⸀32'35 -1.2m	
asc. node	14665 Oct 13 08:16	24°⸀52'06	min. Earth dist.		14670 Oct 10 18:07	2°⸀14'10 0.68581 AU	
	14665 Oct 20 03:16	0°⸀			14670 Oct 16 12:07	30°⸀	
	14665 Nov 28 09:04	0°⸀	direct		14670 Nov 20 08:14	22°Υ39'34	
	14666 Jan 06 12:15	0°⸀			14670 Dec 28 13:23	0°⸀	
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
































































































































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asc. node	14671 Jun 04 07:14	2°♈14'40		morning rise	14676 Apr 16 06:16	21°♑58'36	
	14671 Jul 11 12:48	0°♐			14676 Apr 28 23:15	0°♐	
	14671 Aug 19 02:13	0°♑			14676 Jun 15 22:56	0°♑	
evening set	14671 Sep 09 12:15	16°♑57'47			14676 Aug 03 17:05	0°♑	
	14671 Sep 25 22:07	0°♒			14676 Sep 22 23:42	0°♈	
	14671 Nov 02 23:37	0°♐			14676 Nov 17 10:03	0°♐	
				retrograde	14677 Jan 20 17:44	19°♐02'31	
conjunction	14671 Nov 21 05:58	14°♐08'10	1°04'31	asc. node	14677 Jan 25 05:42	18°♐54'52	
minimum elong	14671 Nov 21 07:47	14°♐11'39	1°05'28	opposition	14677 Feb 20 14:54	13°♐35'54	1°51'51
	14671 Dec 12 03:19	0°♑		greatest brilliancy	14677 Feb 21 01:12	13°♐28'18	-2.8m
max. Earth dist.	14672 Jan 11 09:09	22°♑18'11	2.43883 AU	min. Earth dist.	14677 Feb 27 06:38	11°♐38'39	0.39664 AU
	14672 Jan 22 02:14	0°♒		direct	14677 Mar 25 10:20	7°♐15'52	
morning rise	14672 Jan 24 20:27	1°♒57'53			14677 May 28 16:35	0°♑	
	14672 Mar 05 08:43	0°♐			14677 Jul 14 01:35	0°♒	
desc. node	14672 Apr 03 10:42	19°♐11'03			14677 Aug 26 03:40	0°♐	
	14672 Apr 20 09:35	0°♑			14677 Oct 08 10:12	0°♑	
	14672 Jun 09 04:19	0°♐			14677 Nov 21 21:15	0°♒	
	14672 Aug 06 12:13	0°♑		desc. node	14677 Nov 23 10:12	1°♒01'19	
retrograde	14672 Oct 04 12:23	15°♑20'25			14678 Jan 06 16:52	0°♐	
opposition	14672 Nov 12 15:37	6°♑26'21	-4°54'16	evening set	14678 Feb 21 21:16	29°♐34'10	
greatest brilliancy	14672 Nov 13 10:46	6°♑07'51	-1.4m		14678 Feb 22 13:31	0°♑	
min. Earth dist.	14672 Nov 17 09:46	4°♑36'08	0.64294 AU	max. Earth dist.	14678 Apr 06 06:22	27°♑04'31	2.68502 AU
	14672 Nov 30 13:56	30°♐					
direct	14672 Dec 24 02:26	26°♐25'20		conjunction	14678 Apr 07 07:46	27°♑44'45	-1°02'54
	14673 Jan 18 01:42	0°♑		minimum elong	14678 Apr 07 06:44	27°♑43'07	1°03'17
	14673 Mar 24 04:01	0°♑			14678 Apr 10 21:09	0°♐	
asc. node	14673 Apr 21 12:47	17°♑53'33		morning rise	14678 May 20 08:37	25°♐05'11	
	14673 May 09 07:13	0°♈			14678 May 28 01:15	0°♑	
	14673 Jun 19 10:49	0°♐			14678 Jul 13 14:58	0°♑	
	14673 Jul 28 07:09	0°♑			14678 Aug 28 08:44	0°♈	
	14673 Sep 04 08:33	0°♒			14678 Oct 12 06:05	0°♐	
	14673 Oct 12 18:18	0°♐			14678 Nov 25 13:59	0°♑	
	14673 Nov 21 09:29	0°♑		asc. node	14678 Dec 13 08:46	11°♑59'11	
evening set	14673 Nov 22 09:30	0°♑44'29			14679 Jan 09 16:30	0°♒	
	14674 Jan 01 20:40	0°♒			14679 Mar 03 13:30	0°♐	
				retrograde	14679 Apr 12 00:56	9°♐46'42	
conjunction	14674 Jan 19 16:08	12°♒26'30	0°18'01	min. Earth dist.	14679 May 07 20:43	5°♐27'30	0.38756 AU
minimum elong	14674 Jan 19 17:08	12°♒28'13	0°18'50	greatest brilliancy	14679 May 12 17:06	4°♐02'12	-2.8m
	14674 Feb 14 10:34	0°♐		opposition	14679 May 14 02:39	3°♐37'21	6°53'33
max. Earth dist.	14674 Feb 18 01:16	2°♐25'22	2.57121 AU		14679 May 28 00:21	30°♐	
desc. node	14674 Feb 18 21:14	2°♐58'46		direct	14679 Jun 13 00:04	28°♐20'06	
morning rise	14674 Mar 11 12:08	16°♐37'24			14679 Jun 29 03:43	0°♐	
	14674 Apr 01 03:13	0°♑			14679 Sep 07 07:04	0°♑	
	14674 May 18 21:12	0°♐		desc. node	14679 Oct 11 17:11	19°♑50'32	
	14674 Jul 08 03:10	0°♑			14679 Oct 28 17:09	0°♒	
	14674 Sep 01 14:45	0°♑			14679 Dec 17 00:47	0°♐	
retrograde	14674 Nov 18 01:55	24°♑02'39			14680 Feb 03 17:59	0°♑	
opposition	14674 Dec 24 01:48	16°♑25'47	-3°40'46		14680 Mar 22 20:04	0°♐	
greatest brilliancy	14674 Dec 25 06:16	15°♑59'50	-1.9m	evening set	14680 Mar 28 08:12	3°♐28'13	
min. Earth dist.	14675 Jan 01 05:39	13°♑27'35	0.53453 AU	max. Earth dist.	14680 Apr 27 17:50	22°♐49'02	2.65931 AU
direct	14675 Feb 01 08:28	7°♑11'04			14680 May 08 21:22	0°♑	
asc. node	14675 Mar 09 22:13	15°♑10'46					
	14675 Apr 09 00:16	0°♈		conjunction	14680 May 11 04:15	1°♑28'49	-1°11'55
	14675 May 25 05:20	0°♐		minimum elong	14680 May 11 04:25	1°♑29'04	1°12'47
	14675 Jul 04 21:04	0°♑			14680 Jun 23 12:33	0°♑	
	14675 Aug 13 00:27	0°♒		morning rise	14680 Jun 24 18:06	0°♑49'28	
	14675 Sep 21 09:28	0°♐			14680 Aug 06 12:21	0°♈	
	14675 Nov 01 00:32	0°♑			14680 Sep 17 20:25	0°♐	
	14675 Dec 13 10:52	0°♒			14680 Oct 28 17:07	0°♑	
desc. node	14676 Jan 06 11:12	16°♒24'08		asc. node	14680 Oct 30 04:24	1°♑05'46	
evening set	14676 Jan 13 23:08	21°♒26'42			14680 Dec 07 14:35	0°♒	
	14676 Jan 26 19:01	0°♐			14681 Jan 16 12:37	0°♐	
					14681 Feb 27 09:56	0°♑	
conjunction	14676 Mar 02 10:12	23°♐19'18	-0°31'20		14681 Apr 18 10:09	0°♒	
minimum elong	14676 Mar 02 09:09	23°♐17'36	0°31'05	retrograde	14681 Jun 05 01:39	13°♒19'34	
	14676 Mar 12 18:52	0°♑		min. Earth dist.	14681 Jul 05 10:18	7°♒00'42	0.51937 AU

opposition	14681 Jul 13 06:17	4°≈05'05	2°15'43		14686 Aug 26 17:10	0°♄	
greatest brilliancy	14681 Jul 12 15:19	4°≈19'07	-2.1m		14686 Oct 03 13:05	0°♄	
	14681 Jul 25 03:22	30°♄					
direct	14681 Aug 17 09:00	26°♄27'58		conjunction	14686 Oct 21 14:01	14°♄18'05	1°05'07
desc. node	14681 Aug 29 02:49	27°♄18'10		minimum elong	14686 Oct 21 11:58	14°♄14'02	1°05'45
	14681 Sep 11 10:42	0°≈			14686 Nov 10 12:58	0°♄	
	14681 Nov 20 10:22	0°♄		max. Earth dist.	14686 Dec 12 04:28	24°♄24'50	2.38264 AU
	14682 Jan 13 02:26	0°♄			14686 Dec 19 13:39	0°♄	
	14682 Mar 04 02:36	0°♄		morning rise	14687 Jan 01 03:08	9°♄23'53	
	14682 Apr 20 16:47	0°♄			14687 Jan 29 09:22	0°≈	
evening set	14682 May 03 06:39	8°♄10'34			14687 Mar 13 15:44	0°♄	
max. Earth dist.	14682 May 22 19:20	21°♄05'41	2.58000 AU	desc. node	14687 Apr 21 04:19	25°♄03'45	
	14682 Jun 05 00:41	0°♄			14687 Apr 29 02:09	0°♄	
					14687 Jun 19 14:26	0°♄	
conjunction	14682 Jun 19 00:04	9°♄33'35	-0°52'29		14687 Aug 31 04:07	0°♄	
minimum elong	14682 Jun 19 01:39	9°♄36'19	0°53'31	retrograde	14687 Sep 20 20:41	2°♄21'18	
	14682 Jul 18 03:50	0°♄			14687 Oct 10 06:29	30°♄	
morning rise	14682 Aug 09 03:50	15°♄52'19		opposition	14687 Oct 30 17:50	23°♄07'25	-4°49'49
	14682 Aug 28 07:34	0°♄		greatest brilliancy	14687 Oct 31 05:55	22°♄55'37	-1.3m
asc. node	14682 Sep 16 16:35	14°♄33'47		min. Earth dist.	14687 Nov 02 23:23	21°♄51'48	0.66792 AU
	14682 Oct 06 21:28	0°♄		direct	14687 Dec 11 09:21	13°♄05'02	
	14682 Nov 14 12:15	0°♄			14688 Feb 09 21:52	0°♄	
	14682 Dec 23 00:04	0°♄			14688 Apr 03 10:00	0°♄	
	14683 Jan 31 10:51	0°♄		asc. node	14688 May 08 01:28	23°♄01'16	
	14683 Mar 14 09:46	0°≈			14688 May 17 23:44	0°♄	
	14683 May 01 04:53	0°♄			14688 Jun 27 16:26	0°♄	
retrograde	14683 Jul 14 15:24	25°♄35'23			14688 Aug 05 08:32	0°♄	
desc. node	14683 Jul 17 11:13	25°♄32'11			14688 Sep 12 06:30	0°♄	
min. Earth dist.	14683 Aug 19 13:59	17°♄22'26	0.63232 AU		14688 Oct 20 11:40	0°♄	
opposition	14683 Aug 24 01:40	15°♄36'10	-1°31'08	evening set	14688 Oct 26 13:34	4°♄42'14	
greatest brilliancy	14683 Aug 23 18:47	15°♄42'58	-1.5m		14688 Nov 28 20:52	0°♄	
direct	14683 Oct 01 22:24	6°♄35'36					
	14683 Dec 17 16:52	0°♄		conjunction	14688 Dec 30 00:43	22°♄49'52	0°39'10
	14684 Feb 11 10:40	0°♄		minimum elong	14688 Dec 30 02:58	22°♄53'56	0°40'08
	14684 Mar 31 18:01	0°♄			14689 Jan 09 01:29	0°≈	
	14684 May 16 09:26	0°♄		max. Earth dist.	14689 Feb 05 17:08	19°≈18'28	2.52377 AU
evening set	14684 Jun 13 05:55	19°♄19'29			14689 Feb 21 10:30	0°♄	
max. Earth dist.	14684 Jun 26 16:28	28°♄55'18	2.45448 AU	morning rise	14689 Feb 23 02:36	1°♄07'30	
	14684 Jun 28 04:21	0°♄		desc. node	14689 Mar 07 15:47	9°♄30'17	
asc. node	14684 Aug 03 05:58	26°♄37'47			14689 Apr 08 03:16	0°♄	
					14689 May 26 09:15	0°♄	
conjunction	14684 Aug 07 23:39	0°♄12'34	0°03'21		14689 Jul 17 09:56	0°♄	
minimum elong	14684 Aug 07 23:26	0°♄12'11	0°02'44		14689 Sep 19 13:58	0°♄	
behind sun begin	14684 Aug 06 22:02	29°♄24'07		retrograde	14689 Oct 30 04:34	8°♄04'22	
behind sun end	14684 Aug 09 00:50	1°♄00'18		opposition	14689 Dec 06 15:52	29°♄51'48	-4°28'03
	14684 Aug 07 16:59	0°♄			14689 Dec 06 07:07	30°♄	
	14684 Sep 15 14:52	0°♄		greatest brilliancy	14689 Dec 07 19:38	29°♄25'40	-1.7m
morning rise	14684 Oct 14 08:07	22°♄36'40		min. Earth dist.	14689 Dec 13 15:49	27°♄13'57	0.58392 AU
	14684 Oct 23 16:14	0°♄		direct	14690 Jan 16 03:15	20°♄08'58	
	14684 Nov 30 17:47	0°♄			14690 Feb 27 04:45	0°♄	
	14685 Jan 08 17:28	0°♄		asc. node	14690 Mar 26 09:03	13°♄25'34	
	14685 Feb 18 14:36	0°≈			14690 Apr 22 16:00	0°♄	
	14685 Apr 03 14:06	0°♄			14690 Jun 04 16:40	0°♄	
	14685 May 23 04:18	0°♄			14690 Jul 14 07:15	0°♄	
desc. node	14685 Jun 03 12:20	6°♄03'30			14690 Aug 21 20:17	0°♄	
retrograde	14685 Aug 17 01:46	29°♄48'33			14690 Sep 29 17:12	0°♄	
opposition	14685 Sep 26 21:30	19°♄59'52	-3°45'52		14690 Nov 08 20:27	0°♄	
min. Earth dist.	14685 Sep 26 05:21	20°♄15'49	0.68405 AU		14690 Dec 20 19:28	0°≈	
greatest brilliancy	14685 Sep 26 17:56	20°♄03'24	-1.3m	evening set	14690 Dec 26 14:08	4°≈01'17	
direct	14685 Nov 06 21:14	10°♄15'19		desc. node	14691 Jan 23 05:11	22°≈54'59	
	14686 Jan 14 10:47	0°♄			14691 Feb 02 18:33	0°♄	
	14686 Mar 10 15:25	0°♄					
	14686 Apr 26 18:48	0°♄		conjunction	14691 Feb 15 23:56	8°♄46'47	-0°13'54
	14686 Jun 08 19:23	0°♄		minimum elong	14691 Feb 15 23:22	8°♄45'52	0°13'25
asc. node	14686 Jun 21 00:24	8°♄54'34		behind sun begin	14691 Feb 15 12:20	8°♄27'40	
	14686 Jul 19 02:50	0°♄		behind sun end	14691 Feb 16 10:24	9°♄04'03	
evening set	14686 Aug 10 16:01	17°♄24'47		max. Earth dist.	14691 Mar 06 14:36	20°♄58'12	2.62877 AU

	14691 Mar 20 13:32	0°♈		greatest brilliancy	14696 Jun 21 12:53	14°♊20'21	-2.4m
morning rise	14691 Apr 03 13:42	8°♈58'33		direct	14696 Jul 25 19:27	7°♊07'39	
	14691 May 06 20:26	0°♉		desc. node	14696 Sep 14 13:19	19°♊48'25	
	14691 Jun 24 10:50	0°♊			14696 Oct 06 15:45	0°♋	
	14691 Aug 13 19:46	0°♋			14696 Dec 01 02:57	0°♌	
	14691 Oct 07 15:05	0°♌			14697 Jan 21 03:44	0°♈	
retrograde	14691 Dec 24 02:01	24°♌43'04			14697 Mar 11 05:15	0°♉	
opposition	14692 Jan 26 02:25	18°♌20'26	-1°02'50	evening set	14697 Apr 18 21:47	24°♉26'36	
greatest brilliancy	14692 Jan 26 12:26	18°♌12'09	-2.5m		14697 Apr 27 12:45	0°♊	
min. Earth dist.	14692 Feb 03 14:59	15°♌31'59	0.44742 AU	max. Earth dist.	14697 May 12 09:25	9°♊40'39	2.61743 AU
asc. node	14692 Feb 11 18:47	13°♌09'55					
direct	14692 Mar 02 01:47	10°♌33'18		conjunction	14697 Jun 02 23:33	23°♊58'44	-1°03'58
	14692 Apr 29 17:08	0°♍		minimum elong	14697 Jun 03 00:40	24°♊00'36	1°04'59
	14692 Jun 15 04:51	0°♎			14697 Jun 11 22:28	0°♋	
	14692 Jul 26 15:58	0°♏		morning rise	14697 Jul 20 17:03	26°♋43'20	
	14692 Sep 05 13:09	0°♐			14697 Jul 25 08:37	0°♌	
	14692 Oct 17 09:32	0°♑			14697 Sep 04 21:42	0°♍	
	14692 Nov 29 20:00	0°♒		asc. node	14697 Oct 03 14:10	21°♍25'32	
desc. node	14692 Dec 09 23:55	6°♒51'06			14697 Oct 14 21:18	0°♎	
	14693 Jan 13 22:31	0°♓			14697 Nov 22 20:44	0°♏	
evening set	14693 Feb 07 04:50	15°♓45'44			14697 Dec 31 16:36	0°♐	
	14693 Mar 01 08:51	0°♈			14698 Feb 09 14:51	0°♑	
					14698 Mar 24 18:43	0°♒	
conjunction	14693 Mar 24 17:36	14°♈53'24	-0°53'08		14698 May 17 09:15	0°♓	
minimum elong	14693 Mar 24 16:23	14°♈51'27	0°53'16	retrograde	14698 Jun 30 06:33	10°♓49'18	
max. Earth dist.	14693 Mar 28 18:24	17°♈27'04	2.67996 AU	desc. node	14698 Aug 02 22:19	3°♓21'57	
	14693 Apr 17 13:25	0°♉		min. Earth dist.	14698 Aug 03 04:54	3°♓15'37	0.59469 AU
morning rise	14693 May 07 02:00	12°♉21'28		opposition	14698 Aug 09 02:36	0°♈57'10	-0°16'09
	14693 Jun 03 22:40	0°♊		greatest brilliancy	14698 Aug 09 01:05	0°♈58'40	-1.7m
	14693 Jul 21 03:38	0°♋			14698 Aug 11 13:28	30°♈	
	14693 Sep 06 02:24	0°♌		direct	14698 Sep 15 17:18	22°♈22'55	
	14693 Oct 23 01:47	0°♍			14698 Oct 24 19:24	0°♉	
	14693 Dec 10 08:17	0°♎			14698 Dec 28 21:16	0°♈	
asc. node	14693 Dec 29 23:47	11°♎25'05			14699 Feb 19 12:30	0°♉	
	14694 Feb 06 04:29	0°♏			14699 Apr 08 23:23	0°♊	
retrograde	14694 Mar 13 03:23	7°♏21'44			14699 May 24 10:24	0°♋	
min. Earth dist.	14694 Apr 10 10:49	2°♏45'30	0.36428 AU	evening set	14699 May 27 16:23	2°♋12'51	
opposition	14694 Apr 11 21:45	2°♏22'19	6°35'46	max. Earth dist.	14699 Jun 11 09:13	12°♋21'09	2.50825 AU
greatest brilliancy	14694 Apr 11 12:17	2°♏28'36	-3.0m		14699 Jul 06 07:56	0°♌	
	14694 Apr 21 07:52	30°♎					
direct	14694 May 10 23:07	27°♎32'58		conjunction	14699 Jul 17 19:13	8°♌18'07	-0°22'55
	14694 May 30 10:41	0°♏		minimum elong	14699 Jul 17 20:34	8°♌20'34	0°23'46
	14694 Aug 03 10:13	0°♐			14699 Aug 16 01:52	0°♍	
	14694 Sep 21 05:47	0°♑		asc. node	14699 Aug 21 01:52	3°♍46'25	
desc. node	14694 Oct 28 03:34	23°♑23'27		morning rise	14699 Sep 15 12:03	23°♍14'13	
	14694 Nov 07 13:34	0°♒			14699 Sep 24 05:19	0°♎	
	14694 Dec 25 01:41	0°♓			14699 Nov 01 10:55	0°♏	
	14695 Feb 10 21:06	0°♈			14699 Dec 09 14:56	0°♐	
evening set	14695 Mar 15 17:35	20°♈37'56			14700 Jan 17 16:25	0°♑	
	14695 Mar 30 13:57	0°♉			14700 Feb 27 18:06	0°♒	
max. Earth dist.	14695 Apr 19 20:49	12°♉51'56	2.67595 AU		14700 Apr 13 11:30	0°♓	
					14700 Jun 05 13:43	0°♈	
conjunction	14695 Apr 28 10:22	18°♉19'43	-1°11'25	desc. node	14700 Jun 21 02:18	6°♈53'12	
minimum elong	14695 Apr 28 09:58	18°♉19'06	1°12'07	retrograde	14700 Aug 04 22:11	17°♈11'02	
	14695 May 16 14:55	0°♊		min. Earth dist.	14700 Sep 12 13:53	8°♈06'23	0.67165 AU
morning rise	14695 Jun 10 23:08	16°♊27'09		opposition	14700 Sep 14 18:07	7°♈14'38	-3°02'55
	14695 Jul 01 12:55	0°♋		greatest brilliancy	14700 Sep 14 11:04	7°♈21'38	-1.3m
	14695 Aug 15 01:48	0°♌			14700 Oct 06 03:06	30°♈	
	14695 Sep 27 03:40	0°♍		direct	14700 Oct 25 01:54	27°♈43'56	
	14695 Nov 07 21:51	0°♎			14700 Nov 14 11:18	0°♈	
asc. node	14695 Nov 16 22:06	6°♎34'24			14701 Jan 27 00:40	0°♉	
	14695 Dec 18 20:45	0°♏			14701 Mar 19 22:44	0°♊	
	14696 Jan 29 08:14	0°♐			14701 May 05 07:26	0°♋	
	14696 Mar 15 02:29	0°♑			14701 Jun 17 04:23	0°♌	
retrograde	14696 May 17 07:56	22°♑17'12		asc. node	14701 Jul 08 16:39	15°♌47'37	
min. Earth dist.	14696 Jun 14 07:43	16°♑52'28	0.46448 AU	evening set	14701 Jul 16 23:47	22°♌00'26	
opposition	14696 Jun 22 17:46	13°♑54'54	4°12'29		14701 Jul 27 13:08	0°♍	

max. Earth dist.	14701 Aug 15 05:22	14° \mathbb{M} 21'26	2.37334 AU		14706 Aug 25 09:14	0° \mathfrak{C}	
	14701 Sep 04 05:58	0° \mathfrak{L}			14706 Nov 01 13:16	0° \mathcal{O}	
				retrograde	14706 Dec 01 02:50	4° \mathcal{O} 37'49	
conjunction	14701 Sep 20 20:33	13° \mathfrak{L} 06'40	0°47'54		14706 Dec 28 11:05	30° \mathfrak{R} \mathfrak{C}	
minimum elong	14701 Sep 20 16:35	12° \mathfrak{L} 58'51	0°48'00	opposition	14707 Jan 05 02:11	27° \mathfrak{C} 24'54	-2°57'03
	14701 Oct 12 03:30	0° \mathbb{M}		greatest brilliancy	14707 Jan 06 03:22	27° \mathfrak{C} 02'32	-2.1m
	14701 Nov 19 03:15	0° \mathfrak{J}		min. Earth dist.	14707 Jan 13 15:23	24° \mathfrak{C} 23'00	0.50394 AU
morning rise	14701 Dec 04 15:33	12° \mathfrak{J} 04'10		direct	14707 Feb 12 09:38	18° \mathfrak{C} 34'30	
	14701 Dec 28 02:25	0° \mathfrak{Z}		asc. node	14707 Mar 01 06:12	20° \mathfrak{C} 29'14	
	14702 Feb 06 20:41	0° \approx			14707 Mar 28 10:09	0° \mathcal{O}	
	14702 Mar 22 05:33	0° \mathfrak{H}			14707 May 18 12:18	0° \mathbb{M}	
desc. node	14702 May 08 23:07	0° \mathcal{Y} 21'53			14707 Jun 29 08:13	0° \mathfrak{L}	
	14702 May 08 08:35	0° \mathcal{Y}			14707 Aug 08 01:14	0° \mathbb{M}	
	14702 Jul 02 00:40	0° \mathfrak{B}			14707 Sep 16 19:40	0° \mathfrak{J}	
retrograde	14702 Sep 07 23:56	19° \mathfrak{B} 47'42			14707 Oct 27 18:46	0° \mathfrak{Z}	
opposition	14702 Oct 18 09:31	10° \mathfrak{B} 17'36	-4°33'27		14707 Dec 09 11:42	0° \approx	
greatest brilliancy	14702 Oct 18 14:43	10° \mathfrak{B} 12'30	-1.2m	desc. node	14707 Dec 28 15:27	13° \approx 02'43	
min. Earth dist.	14702 Oct 20 02:19	9° \mathfrak{B} 37'32	0.68236 AU		14708 Jan 23 00:52	0° \mathfrak{H}	
direct	14702 Nov 28 23:01	0° \mathfrak{B} 18'56		evening set	14708 Jan 24 11:52	0° \mathfrak{H} 57'47	
	14703 Feb 23 14:40	0° \mathbb{I}			14708 Mar 09 03:12	0° \mathcal{Y}	
	14703 Apr 14 09:09	0° \mathfrak{C}					
asc. node	14703 May 26 15:36	28° \mathfrak{C} 57'12		conjunction	14708 Mar 11 16:59	1° \mathcal{Y} 39'08	-0°40'14
	14703 May 28 02:39	0° \mathcal{O}		minimum elong	14708 Mar 11 15:48	1° \mathcal{Y} 37'13	0°40'08
	14703 Jul 07 13:34	0° \mathbb{M}		max. Earth dist.	14708 Mar 21 05:06	7° \mathcal{Y} 44'05	2.66653 AU
	14703 Aug 15 03:47	0° \mathfrak{L}		morning rise	14708 Apr 24 20:37	29° \mathcal{Y} 43'57	
	14703 Sep 21 23:58	0° \mathbb{M}			14708 Apr 25 06:47	0° \mathfrak{B}	
evening set	14703 Sep 28 04:07	4° \mathbb{M} 53'46			14708 Jun 12 00:08	0° \mathbb{I}	
	14703 Oct 30 02:02	0° \mathfrak{J}			14708 Jul 30 02:26	0° \mathfrak{C}	
					14708 Sep 16 20:51	0° \mathcal{O}	
conjunction	14703 Dec 07 19:22	29° \mathfrak{J} 38'28	0°57'34		14708 Nov 06 18:21	0° \mathbb{M}	
minimum elong	14703 Dec 07 22:04	29° \mathfrak{J} 43'33	0°58'34		14709 Jan 08 20:54	0° \mathfrak{L}	
	14703 Dec 08 06:51	0° \mathfrak{Z}		asc. node	14709 Jan 16 14:40	2° \mathfrak{L} 17'14	
	14704 Jan 18 06:42	0° \approx		retrograde	14709 Feb 08 22:48	5° \mathfrak{L} 31'03	
max. Earth dist.	14704 Jan 23 10:16	3° \approx 39'35	2.47041 AU	opposition	14709 Mar 10 18:17	0° \mathfrak{L} 29'48	3°49'54
morning rise	14704 Feb 06 14:27	13° \approx 36'33		greatest brilliancy	14709 Mar 11 06:41	0° \mathfrak{L} 21'14	-2.9m
	14704 Mar 01 12:46	0° \mathfrak{H}			14709 Mar 12 13:20	30° \mathfrak{R} \mathbb{M}	
desc. node	14704 Mar 25 11:51	15° \mathfrak{H} 54'41		min. Earth dist.	14709 Mar 15 03:26	29° \mathbb{M} 17'11	0.37597 AU
	14704 Apr 16 08:39	0° \mathcal{Y}		direct	14709 Apr 10 20:01	24° \mathbb{M} 57'17	
	14704 Jun 04 09:39	0° \mathfrak{B}			14709 May 08 12:32	0° \mathfrak{L}	
	14704 Jul 29 11:33	0° \mathbb{I}			14709 Jul 05 01:14	0° \mathbb{M}	
retrograde	14704 Oct 14 09:49	23° \mathbb{I} 37'35			14709 Aug 19 15:22	0° \mathfrak{J}	
opposition	14704 Nov 22 00:31	14° \mathbb{I} 56'47	-4°49'54		14709 Oct 03 03:42	0° \mathfrak{Z}	
greatest brilliancy	14704 Nov 22 23:17	14° \mathbb{I} 34'56	-1.5m	desc. node	14709 Nov 14 15:13	28° \mathfrak{Z} 11'57	
min. Earth dist.	14704 Nov 27 14:26	12° \mathbb{I} 48'24	0.62465 AU		14709 Nov 17 09:05	0° \approx	
direct	14705 Jan 02 05:15	4° \mathbb{I} 59'36			14710 Jan 02 16:26	0° \mathfrak{H}	
	14705 Mar 17 08:14	0° \mathfrak{C}			14710 Feb 18 19:48	0° \mathcal{Y}	
asc. node	14705 Apr 12 21:31	15° \mathfrak{C} 52'19		evening set	14710 Mar 02 23:01	7° \mathcal{Y} 40'30	
	14705 May 04 06:27	0° \mathcal{O}			14710 Apr 07 06:08	0° \mathfrak{B}	
	14705 Jun 14 22:32	0° \mathbb{M}		max. Earth dist.	14710 Apr 12 04:51	3° \mathfrak{B} 08'07	2.68423 AU
	14705 Jul 24 00:19	0° \mathfrak{L}					
	14705 Aug 31 04:57	0° \mathbb{M}		conjunction	14710 Apr 15 23:46	5° \mathfrak{B} 32'16	-1°07'06
	14705 Oct 08 17:28	0° \mathfrak{J}		minimum elong	14710 Apr 15 22:56	5° \mathfrak{B} 30'56	1°07'36
	14705 Nov 17 11:39	0° \mathfrak{Z}			14710 May 24 08:43	0° \mathbb{I}	
evening set	14705 Dec 06 15:54	14° \mathfrak{Z} 01'05		morning rise	14710 May 29 01:14	3° \mathbb{I} 00'35	
	14705 Dec 29 01:34	0° \approx			14710 Jul 09 16:19	0° \mathfrak{C}	
					14710 Aug 23 22:49	0° \mathcal{O}	
conjunction	14706 Jan 31 02:42	22° \approx 50'19	0°05'55		14710 Oct 07 02:04	0° \mathbb{M}	
minimum elong	14706 Jan 31 03:00	22° \approx 50'51	0°06'36		14710 Nov 19 06:10	0° \mathfrak{L}	
behind sun begin	14706 Jan 30 07:06	22° \approx 17'05		asc. node	14710 Dec 04 16:14	10° \mathfrak{L} 48'13	
behind sun end	14706 Jan 31 22:54	23° \approx 24'35			14711 Jan 01 05:17	0° \mathbb{M}	
desc. node	14706 Feb 09 22:39	29° \approx 28'32			14711 Feb 15 17:26	0° \mathfrak{J}	
	14706 Feb 10 17:24	0° \mathfrak{H}		retrograde	14711 Apr 27 07:31	26° \mathfrak{J} 47'49	
max. Earth dist.	14706 Feb 25 09:21	9° \mathfrak{H} 46'23	2.59388 AU	min. Earth dist.	14711 May 23 11:21	22° \mathfrak{J} 12'26	0.41122 AU
morning rise	14706 Mar 21 03:50	25° \mathfrak{H} 19'41		greatest brilliancy	14711 May 29 13:55	20° \mathfrak{J} 16'20	-2.7m
	14706 Mar 28 09:30	0° \mathcal{Y}		opposition	14711 May 31 02:57	19° \mathfrak{J} 46'46	6°08'36
	14706 May 14 21:52	0° \mathfrak{B}		direct	14711 Jun 30 23:52	13° \mathfrak{J} 58'33	
	14706 Jul 03 09:47	0° \mathbb{I}			14711 Aug 27 02:27	0° \mathfrak{Z}	

desc. node	14711 Oct 02 22:20	18°358'30			14716 Sep 11 18:40	0°♎	
	14711 Oct 22 11:23	0°♊			14716 Oct 19 18:35	0°♌	
	14711 Dec 12 07:45	0°♋	morning rise		14716 Nov 02 11:23	10°♌51'07	
	14712 Jan 30 17:17	0°♌			14716 Nov 26 18:52	0°♍	
	14712 Mar 19 02:54	0°♍			14717 Jan 04 17:20	0°♎	
evening set	14712 Apr 06 03:13	11°♍21'22			14717 Feb 14 11:50	0°♏	
max. Earth dist.	14712 May 04 00:03	29°♍11'09	2.64662 AU		14717 Mar 30 02:58	0°♋	
	14712 May 05 06:17	0°♐			14717 May 17 11:03	0°♌	
			desc. node		14717 May 25 15:10	4°♌38'09	
conjunction	14712 May 20 05:53	9°♐44'48	-1°10'21		14717 Jul 18 14:08	0°♍	
minimum elong	14712 May 20 06:24	9°♐45'38	1°11'16	retrograde	14717 Aug 25 15:16	7°♍25'05	
	14712 Jun 19 19:29	0°♑			14717 Sep 29 11:10	30°♌♌	
morning rise	14712 Jul 04 16:43	10°♑03'34		opposition	14717 Oct 05 08:31	27°♌42'09	-4°06'35
	14712 Aug 02 14:27	0°♒		greatest brilliancy	14717 Oct 05 07:43	27°♌42'57	-1.2m
	14712 Sep 13 15:25	0°♓		min. Earth dist.	14717 Oct 05 12:50	27°♌37'54	0.68628 AU
asc. node	14712 Oct 21 09:02	27°♓54'08		direct	14717 Nov 15 14:17	17°♌51'29	
	14712 Oct 24 04:05	0°♎			14718 Jan 05 17:24	0°♍	
	14712 Dec 02 16:28	0°♌			14718 Mar 05 16:07	0°♐	
	14713 Jan 11 02:24	0°♍			14718 Apr 22 14:02	0°♑	
	14713 Feb 20 23:38	0°♎			14718 Jun 04 20:24	0°♒	
	14713 Apr 07 23:04	0°♏		asc. node	14718 Jun 12 06:00	5°♒22'08	
retrograde	14713 Jun 15 16:29	24°♏15'05			14718 Jul 15 05:14	0°♓	
min. Earth dist.	14713 Jul 17 08:32	17°♏27'36	0.54796 AU		14718 Aug 22 19:45	0°♎	
opposition	14713 Jul 24 13:28	14°♏42'32	1°15'21	evening set	14718 Aug 28 01:11	4°♎07'30	
greatest brilliancy	14713 Jul 24 05:40	14°♏49'59	-1.9m		14718 Sep 29 15:48	0°♌	
desc. node	14713 Aug 20 09:14	7°♏15'58			14718 Nov 06 16:04	0°♍	
direct	14713 Aug 29 15:24	6°♏42'32					
	14713 Nov 13 02:42	0°♋		conjunction	14718 Nov 09 04:54	1°♍58'43	1°06'56
	14714 Jan 08 07:10	0°♌		minimum elong	14718 Nov 09 05:18	1°♍59'29	1°07'48
	14714 Feb 28 02:21	0°♍			14718 Dec 15 17:30	0°♎	
	14714 Apr 16 23:35	0°♐		max. Earth dist.	14719 Jan 01 16:18	12°♎38'18	2.41308 AU
evening set	14714 May 12 19:19	16°♐52'18		morning rise	14719 Jan 16 00:30	23°♎07'35	
max. Earth dist.	14714 May 30 08:34	28°♐38'08	2.55633 AU		14719 Jan 25 13:36	0°♏	
	14714 Jun 01 08:52	0°♑			14719 Mar 09 18:07	0°♋	
			desc. node		14719 Apr 12 06:46	22°♋01'47	
conjunction	14714 Jun 29 18:58	19°♑37'30	-0°43'23		14719 Apr 24 20:37	0°♌	
minimum elong	14714 Jun 29 20:39	19°♑40'29	0°44'23		14719 Jun 14 03:57	0°♍	
	14714 Jul 14 10:28	0°♒			14719 Aug 14 17:09	0°♐	
morning rise	14714 Aug 22 11:28	28°♒31'36		retrograde	14719 Sep 30 02:28	10°♐11'37	
	14714 Aug 24 10:49	0°♓		opposition	14719 Nov 08 14:14	1°♐08'16	-4°53'58
asc. node	14714 Sep 07 21:39	10°♓52'45		greatest brilliancy	14719 Nov 09 06:20	0°♐52'38	-1.4m
	14714 Oct 02 20:55	0°♎			14719 Nov 11 12:29	30°♌♌	
	14714 Nov 10 08:06	0°♌		min. Earth dist.	14719 Nov 12 16:18	29°♍33'03	0.65535 AU
	14714 Dec 18 16:17	0°♍		direct	14719 Dec 20 03:36	21°♍05'45	
	14715 Jan 26 22:15	0°♎			14720 Jan 30 14:01	0°♐	
	14715 Mar 09 10:04	0°♏			14720 Mar 29 00:14	0°♑	
	14715 Apr 24 14:21	0°♋		asc. node	14720 Apr 29 10:09	20°♑17'51	
	14715 Jun 27 09:09	0°♌			14720 May 13 11:19	0°♒	
desc. node	14715 Jul 08 16:43	2°♌38'06			14720 Jun 23 10:42	0°♓	
retrograde	14715 Jul 23 12:52	3°♌59'22			14720 Aug 01 05:32	0°♎	
	14715 Aug 16 22:41	30°♌♌			14720 Sep 08 05:15	0°♌	
min. Earth dist.	14715 Aug 29 11:54	25°♋26'32	0.64908 AU		14720 Oct 16 12:12	0°♍	
opposition	14715 Sep 02 03:42	23°♋59'36	-2°08'40	evening set	14720 Nov 12 05:30	20°♍26'12	
greatest brilliancy	14715 Sep 01 19:43	24°♋07'30	-1.4m		14720 Nov 24 23:41	0°♎	
direct	14715 Oct 11 14:03	14°♋46'59			14721 Jan 05 06:40	0°♏	
	14715 Dec 09 13:50	0°♌					
	14716 Feb 06 14:27	0°♍		conjunction	14721 Jan 12 02:28	4°♏49'06	0°27'04
	14716 Mar 27 16:52	0°♐		minimum elong	14721 Jan 12 04:01	4°♏51'49	0°27'57
	14716 May 12 14:20	0°♑		max. Earth dist.	14721 Feb 14 00:34	27°♏30'56	2.55103 AU
	14716 Jun 24 10:36	0°♒			14721 Feb 17 16:54	0°♋	
evening set	14716 Jun 25 04:57	0°♒33'08		desc. node	14721 Feb 26 17:42	6°♋03'14	
max. Earth dist.	14716 Jul 09 18:44	11°♒11'21	2.42414 AU	morning rise	14721 Mar 05 15:19	10°♋38'26	
asc. node	14716 Jul 25 11:21	22°♒51'40			14721 Apr 04 08:03	0°♌	
	14716 Aug 03 22:19	0°♓			14721 May 22 05:23	0°♍	
					14721 Jul 12 01:38	0°♐	
conjunction	14716 Aug 23 04:23	14°♓44'41	0°19'56		14721 Sep 08 00:09	0°♑	
minimum elong	14716 Aug 23 02:41	14°♓41'25	0°19'32	retrograde	14721 Nov 10 14:12	17°♑24'11	

opposition	14721 Dec 17 06:21	9°  30'15	-4°04'12	evening set	14727 Mar 24 12:31	28°  29'38	
greatest brilliancy	14721 Dec 18 11:07	9°  03'33	-1.8m		14727 Mar 26 21:52	0° 	
min. Earth dist.	14721 Dec 24 22:26	6°  39'45	0.55767 AU	max. Earth dist.	14727 Apr 26 00:16	19°  06'15	2.66781 AU
direct	14722 Jan 26 03:14	0°  00'35					
asc. node	14722 Mar 17 19:19	14°  00'52		conjunction	14727 May 07 05:36	26°  18'05	-1°12'15
	14722 Apr 15 18:27	0°  Ω		minimum elong	14727 May 07 05:32	26°  17'58	1°13'02
	14722 May 30 08:20	0°  ♍			14727 May 12 23:24	0°  ♊	
	14722 Jul 09 11:46	0°  ♌		morning rise	14727 Jun 20 06:20	25°  ♊01'13	
	14722 Aug 17 07:51	0°  ♍			14727 Jun 27 18:16	0°  ♊	
	14722 Sep 25 10:04	0°  ♌			14727 Aug 11 00:36	0°  ♌	
	14722 Nov 04 18:21	0°  ♍			14727 Sep 22 16:55	0°  ♍	
	14722 Dec 16 22:05	0°  ♌			14727 Nov 02 23:01	0°  ♌	
evening set	14723 Jan 07 07:24	14°  ♌42'25		asc. node	14727 Nov 08 04:35	3°  ♌51'53	
desc. node	14723 Jan 14 06:35	19°  ♌25'48			14727 Dec 13 06:33	0°  ♍	
	14723 Jan 30 00:47	0°  ♌			14728 Jan 22 17:06	0°  ♌	
					14728 Mar 05 16:39	0°  ♍	
conjunction	14723 Feb 25 22:54	17°  ♌44'03	-0°24'25		14728 May 01 10:07	0°  ♌	
minimum elong	14723 Feb 25 22:01	17°  ♌42'36	0°24'05	retrograde	14728 May 29 07:33	5°  ♌08'47	
max. Earth dist.	14723 Mar 13 03:13	27°  ♌34'42	2.64471 AU		14728 Jun 25 08:50	30°  ♌	
	14723 Mar 16 21:22	0°  ♌		min. Earth dist.	14728 Jun 27 13:42	29°  ♌13'46	0.49509 AU
morning rise	14723 Apr 12 11:15	16°  ♌59'00		opposition	14728 Jul 05 18:21	26°  ♌14'18	3°04'13
	14723 May 03 02:01	0°  ♌		greatest brilliancy	14728 Jul 04 21:26	26°  ♌33'27	-2.2m
	14723 Jun 20 06:59	0°  ♊		direct	14728 Aug 09 00:32	18°  ♌57'59	
	14723 Aug 08 15:34	0°  ♊		desc. node	14728 Sep 05 19:22	23°  ♌17'12	
	14723 Sep 29 10:52	0°  ♌			14728 Sep 25 04:31	0°  ♌	
	14723 Nov 30 15:28	0°  ♍			14728 Nov 25 07:54	0°  ♌	
retrograde	14724 Jan 09 12:14	8°  ♍17'57			14729 Jan 16 17:53	0°  ♌	
asc. node	14724 Feb 03 03:13	4°  ♍36'30			14729 Mar 07 08:18	0°  ♌	
opposition	14724 Feb 10 09:06	2°  ♍26'29	0°29'24		14729 Apr 23 20:18	0°  ♊	
greatest brilliancy	14724 Feb 10 12:32	2°  ♍23'48	-2.7m	evening set	14729 Apr 28 00:34	2°  ♊42'10	
min. Earth dist.	14724 Feb 18 04:55	0°  ♍00'59	0.41788 AU	max. Earth dist.	14729 May 19 07:27	16°  ♊39'09	2.59763 AU
	14724 Feb 18 06:13	30°  ♍Ω			14729 Jun 08 05:59	0°  ♊	
direct	14724 Mar 15 16:14	25°  ♍25'48					
	14724 Apr 10 19:44	0°  ♍		conjunction	14729 Jun 12 22:07	3°  ♊10'08	-0°58'00
	14724 Jun 06 18:57	0°  ♌		minimum elong	14729 Jun 12 23:31	3°  ♊12'31	0°59'01
	14724 Jul 20 07:17	0°  ♍			14729 Jul 21 13:23	0°  ♌	
	14724 Aug 31 04:40	0°  ♌		morning rise	14729 Aug 01 09:22	7°  ♌43'47	
	14724 Oct 12 16:47	0°  ♍			14729 Aug 31 22:09	0°  ♍	
	14724 Nov 25 14:44	0°  ♌		asc. node	14729 Sep 24 17:43	17°  ♍50'15	
desc. node	14724 Dec 01 04:06	3°  ♌43'22			14729 Oct 10 16:58	0°  ♌	
	14725 Jan 10 01:08	0°  ♌			14729 Nov 18 11:50	0°  ♍	
evening set	14725 Feb 16 16:37	24°  ♌15'47			14729 Dec 27 02:33	0°  ♌	
	14725 Feb 25 16:12	0°  ♌			14730 Feb 04 16:35	0°  ♍	
					14730 Mar 18 23:34	0°  ♌	
conjunction	14725 Apr 02 13:03	22°  ♌47'28	-0°59'18		14730 May 07 06:46	0°  ♌	
minimum elong	14725 Apr 02 11:55	22°  ♌45'40	0°59'35	retrograde	14730 Jul 09 14:25	19°  ♌54'07	
max. Earth dist.	14725 Apr 03 18:23	23°  ♌33'55	2.68381 AU	desc. node	14730 Jul 25 04:34	18°  ♌12'27	
	14725 Apr 13 22:06	0°  ♌		min. Earth dist.	14730 Aug 13 15:47	11°  ♌57'49	0.61658 AU
morning rise	14725 May 15 15:38	20°  ♌07'23		opposition	14730 Aug 18 18:39	9°  ♌56'52	-1°01'46
	14725 May 31 04:19	0°  ♊		greatest brilliancy	14730 Aug 18 13:19	10°  ♌02'07	-1.6m
	14725 Jul 17 00:40	0°  ♊		direct	14730 Sep 26 02:01	1°  ♌07'19	
	14725 Sep 01 06:35	0°  ♌			14730 Dec 22 19:15	0°  ♌	
	14725 Oct 16 23:14	0°  ♍			14731 Feb 15 02:52	0°  ♌	
	14725 Dec 01 15:30	0°  ♌			14731 Apr 05 02:15	0°  ♊	
asc. node	14725 Dec 21 07:18	12°  ♌38'52			14731 May 20 17:00	0°  ♊	
	14726 Jan 18 16:01	0°  ♍		evening set	14731 Jun 07 09:32	12°  ♊09'40	
retrograde	14726 Mar 31 16:08	26°  ♍21'39		max. Earth dist.	14731 Jun 21 00:42	21°  ♊44'17	2.47884 AU
min. Earth dist.	14726 Apr 27 00:31	22°  ♍04'09	0.37327 AU		14731 Jul 02 14:20	0°  ♌	
greatest brilliancy	14726 Apr 30 09:43	21°  ♍08'02	-2.9m				
opposition	14726 May 01 10:49	20°  ♍50'35	7°05'47	conjunction	14731 Jul 30 21:24	20°  ♌43'29	-0°08'32
direct	14726 May 30 16:33	15°  ♍52'52		minimum elong	14731 Jul 30 22:02	20°  ♌44'40	0°09'15
	14726 Jul 21 03:29	0°  ♌		behind sun begin	14731 Jul 30 01:40	20°  ♌06'47	
	14726 Sep 14 01:40	0°  ♍		behind sun end	14731 Jul 31 18:24	21°  ♌22'35	
desc. node	14726 Oct 19 10:02	21°  ♍26'20		asc. node	14731 Aug 12 06:08	29°  ♌59'52	
	14726 Nov 02 07:31	0°  ♌			14731 Aug 12 06:12	0°  ♍	
	14726 Dec 20 17:16	0°  ♌			14731 Sep 20 07:04	0°  ♌	
	14727 Feb 06 23:53	0°  ♌		morning rise	14731 Oct 02 18:10	9°  ♌45'16	

	14731 Oct 28 10:31	0°♌		direct	14737 Jan 10 13:41	13°♊54'50	
greatest brilliancy	14731 Nov 06 11:41	7°♌08'58	1.2m		14737 Mar 07 20:22	0°♊	
	14731 Dec 05 12:46	0°♊		asc. node	14737 Apr 03 06:19	14°♊27'58	
	14732 Jan 13 12:13	0°♊			14737 Apr 27 18:56	0°♊	
	14732 Feb 23 09:38	0°♊			14737 Jun 09 04:49	0°♊	
	14732 Apr 07 13:14	0°♊			14737 Jul 18 13:36	0°♊	
	14732 May 28 03:00	0°♊			14737 Aug 25 22:35	0°♌	
desc. node	14732 Jun 11 07:24	7°♊09'58			14737 Oct 03 14:52	0°♊	
retrograde	14732 Aug 12 11:23	24°♊56'45			14737 Nov 12 12:45	0°♊	
min. Earth dist.	14732 Sep 20 23:07	15°♊36'07	0.67980 AU	evening set	14737 Dec 18 20:49	26°♊12'04	
opposition	14732 Sep 22 07:20	15°♊04'12	-3°29'33		14737 Dec 24 06:21	0°♊	
greatest brilliancy	14732 Sep 22 01:55	15°♊09'34	-1.3m	desc. node	14738 Jan 31 01:12	25°♊58'58	
direct	14732 Nov 02 00:03	5°♊25'25			14738 Feb 06 00:38	0°♊	
	14733 Jan 19 18:30	0°♊					
	14733 Mar 14 11:36	0°♊		conjunction	14738 Feb 09 22:05	2°♊36'17	-0°05'53
	14733 Apr 30 08:14	0°♊		minimum elong	14738 Feb 09 21:52	2°♊35'54	0°05'19
	14733 Jun 12 08:43	0°♊		behind sun begin	14738 Feb 09 02:01	2°♊02'48	
asc. node	14733 Jun 28 23:51	12°♊09'41		behind sun end	14738 Feb 10 17:42	3°♊08'59	
	14733 Jul 22 17:44	0°♊		max. Earth dist.	14738 Mar 03 08:35	16°♊46'45	2.61413 AU
evening set	14733 Jul 30 21:12	6°♊14'02			14738 Mar 23 17:02	0°♊	
	14733 Aug 30 09:38	0°♊		morning rise	14738 Mar 29 11:43	3°♊42'59	
	14733 Oct 07 06:18	0°♌			14738 May 10 01:00	0°♊	
					14738 Jun 27 22:55	0°♊	
conjunction	14733 Oct 08 12:48	1°♌00'33	0°59'43		14738 Aug 18 05:50	0°♊	
minimum elong	14733 Oct 08 09:18	0°♌53'36	1°00'08		14738 Oct 15 10:14	0°♊	
max. Earth dist.	14733 Nov 08 14:53	25°♌35'57	2.36367 AU	retrograde	14738 Dec 14 02:02	16°♊01'53	
	14733 Nov 14 05:32	0°♊		opposition	14739 Jan 17 00:29	9°♊15'26	-1°58'25
morning rise	14733 Dec 21 07:05	28°♊34'18		greatest brilliancy	14739 Jan 17 18:36	8°♊59'52	-2.3m
	14733 Dec 23 04:26	0°♊		min. Earth dist.	14739 Jan 25 17:17	6°♊16'56	0.47271 AU
	14734 Feb 01 22:07	0°♊		asc. node	14739 Feb 19 16:00	1°♊01'47	
	14734 Mar 17 03:27	0°♊		direct	14739 Feb 23 02:59	0°♊56'35	
desc. node	14734 Apr 29 00:32	27°♊42'01			14739 May 09 09:09	0°♊	
	14734 May 02 17:58	0°♊			14739 Jun 22 05:21	0°♊	
	14734 Jun 24 04:48	0°♊			14739 Aug 01 18:00	0°♌	
retrograde	14734 Sep 15 20:23	27°♊26'14			14739 Sep 11 00:58	0°♊	
opposition	14734 Oct 25 23:31	18°♊04'44	-4°44'23		14739 Oct 22 09:42	0°♊	
greatest brilliancy	14734 Oct 26 08:32	17°♊55'54	-1.3m		14739 Dec 04 10:42	0°♊	
min. Earth dist.	14734 Oct 28 12:46	17°♊04'46	0.67574 AU	desc. node	14739 Dec 18 18:55	9°♊43'48	
direct	14734 Dec 06 14:23	8°♊03'21			14740 Jan 18 05:46	0°♊	
	14735 Feb 15 21:12	0°♊		evening set	14740 Feb 02 14:07	10°♊02'41	
	14735 Apr 08 15:33	0°♊			14740 Mar 04 11:35	0°♊	
asc. node	14735 May 16 23:51	25°♊48'54					
	14735 May 22 21:39	0°♊		conjunction	14740 Mar 19 18:59	9°♊47'13	-0°48'11
	14735 Jul 02 12:48	0°♊		minimum elong	14740 Mar 19 17:45	9°♊45'15	0°48'14
	14735 Aug 10 04:34	0°♊		max. Earth dist.	14740 Mar 26 06:57	13°♊55'30	2.67499 AU
greatest brilliancy	14735 Aug 25 13:20	12°♊08'30	1.2m		14740 Apr 20 15:03	0°♊	
	14735 Sep 17 01:44	0°♌		morning rise	14740 May 02 10:22	7°♊27'52	
evening set	14735 Oct 15 13:35	22°♌28'36			14740 Jun 07 03:19	0°♊	
	14735 Oct 25 04:51	0°♊			14740 Jul 24 17:00	0°♊	
	14735 Dec 03 10:55	0°♊			14740 Sep 10 08:43	0°♊	
					14740 Oct 28 16:57	0°♊	
conjunction	14735 Dec 21 23:30	13°♊43'27	0°47'40		14740 Dec 19 10:02	0°♊	
minimum elong	14735 Dec 22 02:09	13°♊48'19	0°48'39	asc. node	14741 Jan 06 22:14	9°♊17'38	
	14736 Jan 13 12:01	0°♊		retrograde	14741 Feb 27 13:35	23°♊27'15	
max. Earth dist.	14736 Feb 01 16:49	13°♊31'09	2.50052 AU	opposition	14741 Mar 29 02:10	18°♊35'52	5°37'34
morning rise	14736 Feb 17 10:03	24°♊20'45		greatest brilliancy	14741 Mar 29 05:37	18°♊33'33	-3.0m
	14736 Feb 25 17:59	0°♊		min. Earth dist.	14741 Mar 30 08:27	18°♊15'43	0.36517 AU
desc. node	14736 Mar 15 12:16	12°♊31'21		direct	14741 Apr 27 18:08	13°♊36'03	
	14736 Apr 11 10:20	0°♊			14741 Jun 21 00:47	0°♌	
	14736 May 29 21:48	0°♊			14741 Aug 11 00:59	0°♊	
	14736 Jul 21 21:48	0°♊			14741 Sep 26 11:10	0°♊	
	14736 Oct 03 17:53	0°♊		desc. node	14741 Nov 04 20:39	25°♊35'22	
retrograde	14736 Oct 23 17:42	2°♊11'33			14741 Nov 11 16:39	0°♊	
	14736 Nov 11 11:16	30°♊			14741 Dec 28 13:59	0°♊	
opposition	14736 Nov 30 17:46	23°♊45'37	-4°39'33		14742 Feb 14 01:27	0°♊	
greatest brilliancy	14736 Dec 01 19:38	23°♊21'01	-1.6m	evening set	14742 Mar 10 20:41	15°♊37'24	
min. Earth dist.	14736 Dec 07 02:41	21°♊20'17	0.60331 AU		14742 Apr 02 15:12	0°♊	

max. Earth dist.	14742 Apr 17 03:57	9°♄12'38	2.68067 AU		14747 Jan 21 13:33	0°♄	
					14747 Mar 03 17:12	0°♁	
conjunction	14742 Apr 23 15:43	13°♄20'13	-1°10'08		14747 Apr 17 19:41	0°♄	
minimum elong	14742 Apr 23 15:08	13°♄19'17	1°10'44		14747 Jun 12 08:18	0°♄	
	14742 May 19 17:02	0°♄		desc. node	14747 Jun 28 20:29	6°♄19'05	
morning rise	14742 Jun 05 22:01	11°♄06'32		retrograde	14747 Jul 31 06:28	12°♄08'38	
	14742 Jul 04 19:42	0°♄		min. Earth dist.	14747 Sep 07 04:12	3°♄17'37	0.66287 AU
	14742 Aug 18 16:28	0°♄		opposition	14747 Sep 10 00:23	2°♄09'59	-2°42'09
	14742 Oct 01 05:18	0°♄		greatest brilliancy	14747 Sep 09 16:27	2°♄17'51	-1.4m
	14742 Nov 12 13:04	0°♄			14747 Sep 15 13:20	30°♄	
asc. node	14742 Nov 24 21:30	8°♄52'18		direct	14747 Oct 19 22:51	22°♄46'50	
	14742 Dec 24 05:27	0°♄			14747 Nov 27 06:32	0°♄	
	14743 Feb 04 21:30	0°♄			14748 Jan 31 08:32	0°♄	
	14743 Mar 26 20:23	0°♄			14748 Mar 22 12:14	0°♄	
retrograde	14743 May 10 05:37	12°♄15'57			14748 May 07 17:35	0°♄	
min. Earth dist.	14743 Jun 06 05:51	7°♄15'19	0.43993 AU		14748 Jun 19 15:36	0°♄	
greatest brilliancy	14743 Jun 13 03:57	4°♄55'24	-2.5m	evening set	14748 Jul 07 01:33	12°♄43'17	
opposition	14743 Jun 14 13:47	4°♄26'44	5°05'01	asc. node	14748 Jul 15 16:21	19°♄07'28	
	14743 Jun 29 18:03	30°♄		max. Earth dist.	14748 Jul 26 13:05	27°♄17'29	2.39447 AU
direct	14743 Jul 16 15:42	28°♄05'10			14748 Jul 30 02:49	0°♄	
	14743 Aug 03 10:28	0°♄			14748 Sep 06 21:49	0°♄	
desc. node	14743 Sep 23 05:45	19°♄11'14					
	14743 Oct 14 06:02	0°♄		conjunction	14748 Sep 07 18:18	0°♄40'13	0°36'29
	14743 Dec 06 08:07	0°♄		minimum elong	14748 Sep 07 15:05	0°♄33'53	0°36'20
	14744 Jan 25 14:22	0°♄			14748 Oct 14 20:37	0°♄	
	14744 Mar 14 08:57	0°♄		morning rise	14748 Nov 20 19:39	29°♄11'42	
evening set	14744 Apr 13 22:39	19°♄17'05			14748 Nov 21 20:18	0°♄	
	14744 Apr 30 15:12	0°♄			14748 Dec 30 18:06	0°♄	
max. Earth dist.	14744 May 09 09:48	5°♄41'25	2.63149 AU		14749 Feb 09 10:54	0°♄	
					14749 Mar 24 19:57	0°♄	
conjunction	14744 May 28 12:11	18°♄13'44	-1°07'17		14749 May 11 06:44	0°♄	
minimum elong	14744 May 28 13:03	18°♄15'10	1°08'14	desc. node	14749 May 15 18:13	2°♄38'51	
	14744 Jun 15 03:27	0°♄			14749 Jul 06 21:46	0°♄	
morning rise	14744 Jul 14 02:25	19°♄46'06		retrograde	14749 Sep 02 06:13	15°♄00'49	
	14744 Jul 28 18:21	0°♄		opposition	14749 Oct 12 19:26	5°♄24'35	-4°23'45
	14744 Sep 08 13:27	0°♄		greatest brilliancy	14749 Oct 12 21:50	5°♄22'13	-1.2m
asc. node	14744 Oct 11 14:49	24°♄34'39		min. Earth dist.	14749 Oct 13 19:50	5°♄00'32	0.68543 AU
	14744 Oct 18 19:02	0°♄			14749 Oct 27 09:10	30°♄	
	14744 Nov 26 23:59	0°♄		direct	14749 Nov 23 05:37	25°♄28'58	
	14745 Jan 05 00:50	0°♄			14749 Dec 22 12:01	0°♄	
	14745 Feb 14 05:55	0°♄			14750 Feb 27 05:50	0°♄	
	14745 Mar 30 04:43	0°♄			14750 Apr 17 05:48	0°♄	
	14745 May 29 02:04	0°♄			14750 May 30 19:48	0°♄	
retrograde	14745 Jun 24 18:26	4°♄27'08		asc. node	14750 Jun 02 13:58	1°♄59'03	
	14745 Jul 19 23:47	30°♄			14750 Jul 10 06:55	0°♄	
min. Earth dist.	14745 Jul 27 17:15	27°♄12'52	0.57490 AU		14750 Aug 17 21:42	0°♄	
opposition	14745 Aug 03 05:07	24°♄41'44	0°20'06	evening set	14750 Sep 14 08:26	21°♄44'45	
greatest brilliancy	14745 Aug 03 03:14	24°♄43'34	-1.8m		14750 Sep 24 17:48	0°♄	
desc. node	14745 Aug 10 15:24	21°♄54'48			14750 Nov 01 18:33	0°♄	
direct	14745 Sep 09 03:36	16°♄21'39					
	14745 Nov 02 19:21	0°♄		conjunction	14750 Nov 25 19:55	18°♄35'42	1°03'13
	14746 Jan 02 03:16	0°♄		minimum elong	14750 Nov 25 22:06	18°♄39'53	1°04'11
	14746 Feb 22 23:02	0°♄			14750 Dec 10 20:47	0°♄	
	14746 Apr 12 04:51	0°♄		max. Earth dist.	14751 Jan 15 04:43	26°♄01'30	2.44494 AU
evening set	14746 May 21 15:34	25°♄55'04			14751 Jan 20 17:38	0°♄	
	14746 May 27 16:28	0°♄		morning rise	14751 Jan 28 16:05	5°♄38'45	
max. Earth dist.	14746 Jun 06 11:42	6°♄41'38	2.53060 AU		14751 Mar 04 21:18	0°♄	
	14746 Jul 09 17:02	0°♄		desc. node	14751 Apr 02 08:18	18°♄50'44	
					14751 Apr 19 17:54	0°♄	
conjunction	14746 Jul 10 05:05	0°♄21'33	-0°32'22		14751 Jun 08 03:50	0°♄	
minimum elong	14746 Jul 10 06:41	0°♄24'25	0°33'17		14751 Aug 04 02:01	0°♄	
	14746 Aug 19 14:55	0°♄		retrograde	14751 Oct 08 16:39	18°♄16'22	
asc. node	14746 Aug 29 02:43	7°♄09'11		opposition	14751 Nov 16 17:13	9°♄24'57	-4°53'19
morning rise	14746 Sep 04 23:40	12°♄22'18		greatest brilliancy	14751 Nov 17 13:09	9°♄05'42	-1.4m
	14746 Sep 27 21:54	0°♄		min. Earth dist.	14751 Nov 21 15:00	7°♄31'12	0.63963 AU
	14746 Nov 05 06:09	0°♄			14751 Dec 18 14:04	30°♄	
	14746 Dec 13 11:31	0°♄		direct	14751 Dec 28 02:18	29°♄24'23	

	14752 Jan 06 20:56	0°♂			14757 Apr 09 07:37	0°♂
	14752 Mar 21 21:36	0°♂				
asc. node	14752 Apr 19 19:05	17°♂55'40		conjunction	14757 Apr 10 05:40	0°♂34'55 -1°04'19
	14752 May 07 16:34	0°♂		minimum elong	14757 Apr 10 04:42	0°♂33'23 1°04'44
	14752 Jun 18 02:08	0°♂		morning rise	14757 May 23 06:01	27°♂55'39
	14752 Jul 27 01:06	0°♂			14757 May 26 11:51	0°♂
	14752 Sep 03 03:19	0°♂			14757 Jul 12 01:16	0°♂
	14752 Oct 11 12:38	0°♂			14757 Aug 26 17:50	0°♂
	14752 Nov 20 02:31	0°♂			14757 Oct 10 12:29	0°♂
evening set	14752 Nov 26 11:40	4°♂43'14			14757 Nov 23 14:42	0°♂
	14752 Dec 31 11:55	0°♂		asc. node	14757 Dec 11 15:24	12°♂15'59
					14758 Jan 07 03:04	0°♂
conjunction	14753 Jan 23 04:25	15°♂50'02 0°14'45			14758 Feb 26 02:39	0°♂
minimum elong	14753 Jan 23 05:14	15°♂51'26 0°15'32		retrograde	14758 Apr 16 07:08	14°♂30'16
behind sun begin	14753 Jan 23 00:28	15°♂43'14		min. Earth dist.	14758 May 12 04:21	10°♂09'19 0.39130 AU
behind sun end	14753 Jan 23 09:59	15°♂59'37		greatest brilliancy	14758 May 17 07:13	8°♂37'39 -2.8m
	14753 Feb 12 23:45	0°♂		opposition	14758 May 18 18:05	8°♂11'26 6°46'49
desc. node	14753 Feb 16 18:49	2°♂32'59		direct	14758 Jun 17 18:41	2°♂49'03
max. Earth dist.	14753 Feb 20 18:21	5°♂12'49 2.57563 AU			14758 Sep 04 04:08	0°♂
morning rise	14753 Mar 14 15:25	19°♂39'44		desc. node	14758 Oct 09 15:06	20°♂00'18
	14753 Mar 30 14:01	0°♂			14758 Oct 26 13:06	0°♂
	14753 May 17 04:34	0°♂			14758 Dec 15 04:16	0°♂
	14753 Jul 06 03:30	0°♂			14759 Feb 02 01:06	0°♂
	14753 Aug 29 16:45	0°♂			14759 Mar 22 05:32	0°♂
retrograde	14753 Nov 21 20:46	27°♂23'39		evening set	14759 Apr 01 06:57	6°♂20'14
opposition	14753 Dec 27 14:49	19°♂51'08 -3°29'53		max. Earth dist.	14759 May 01 04:18	25°♂22'30 2.65718 AU
greatest brilliancy	14753 Dec 28 18:25	19°♂26'01 -2.0m			14759 May 08 08:35	0°♂
min. Earth dist.	14754 Jan 04 19:46	16°♂52'26 0.52864 AU				
direct	14754 Feb 04 16:18	10°♂40'33		conjunction	14759 May 15 03:39	4°♂23'53 -1°11'42
asc. node	14754 Mar 08 03:02	16°♂45'31		minimum elong	14759 May 15 03:55	4°♂24'20 1°12'34
	14754 Apr 05 22:31	0°♂			14759 Jun 23 01:04	0°♂
	14754 May 23 08:02	0°♂		morning rise	14759 Jun 28 21:00	3°♂54'26
	14754 Jul 03 07:42	0°♂			14759 Aug 06 01:42	0°♂
	14754 Aug 11 14:09	0°♂			14759 Sep 17 10:08	0°♂
	14754 Sep 20 00:09	0°♂			14759 Oct 28 06:37	0°♂
	14754 Oct 30 15:02	0°♂		asc. node	14759 Oct 29 09:32	0°♂50'12
	14754 Dec 12 00:32	0°♂			14759 Dec 07 02:55	0°♂
desc. node	14755 Jan 04 10:29	16°♂00'49			14760 Jan 15 21:39	0°♂
evening set	14755 Jan 17 06:40	24°♂38'41			14760 Feb 26 09:52	0°♂
	14755 Jan 25 07:34	0°♂			14760 Apr 14 17:23	0°♂
				retrograde	14760 Jun 08 11:03	16°♂50'13
conjunction	14755 Mar 06 11:26	26°♂16'19 -0°34'00		min. Earth dist.	14760 Jul 09 01:24	10°♂25'08 0.52485 AU
minimum elong	14755 Mar 06 10:20	26°♂14'32 0°33'49		opposition	14760 Jul 16 17:46	7°♂31'55 1°59'38
	14755 Mar 12 06:17	0°♂		greatest brilliancy	14760 Jul 16 04:44	7°♂44'12 -2.0m
max. Earth dist.	14755 Mar 18 10:49	3°♂58'33 2.65783 AU			14760 Aug 16 00:04	30°♂
morning rise	14755 Apr 20 03:50	24°♂47'58		direct	14760 Aug 21 00:39	29°♂50'07
	14755 Apr 28 09:27	0°♂			14760 Aug 26 03:26	0°♂
	14755 Jun 15 07:10	0°♂		desc. node	14760 Aug 27 01:41	0°♂03'51
	14755 Aug 02 21:11	0°♂			14760 Nov 17 18:23	0°♂
	14755 Sep 21 17:41	0°♂			14761 Jan 11 02:53	0°♂
	14755 Nov 14 15:48	0°♂			14761 Mar 02 09:29	0°♂
asc. node	14756 Jan 24 11:56	23°♂24'11			14761 Apr 19 03:32	0°♂
retrograde	14756 Jan 26 16:51	23°♂26'01		evening set	14761 May 06 07:53	11°♂09'53
opposition	14756 Feb 26 06:23	18°♂05'23 2°19'48		max. Earth dist.	14761 May 25 12:14	23°♂52'57 2.57574 AU
greatest brilliancy	14756 Feb 26 18:24	17°♂56'39 -2.8m			14761 Jun 03 14:15	0°♂
min. Earth dist.	14756 Mar 03 13:43	16°♂15'35 0.39182 AU				
direct	14756 Mar 29 18:32	11°♂55'17		conjunction	14761 Jun 22 06:29	12°♂46'57 -0°50'18
	14756 May 24 19:16	0°♂		minimum elong	14761 Jun 22 08:06	12°♂49'45 0°51'17
	14756 Jul 11 17:51	0°♂			14761 Jul 16 19:26	0°♂
	14756 Aug 24 06:16	0°♂		morning rise	14761 Aug 12 21:01	19°♂33'14
	14756 Oct 06 17:05	0°♂			14761 Aug 27 00:28	0°♂
	14756 Nov 20 06:07	0°♂		asc. node	14761 Sep 14 22:26	14°♂12'11
desc. node	14756 Nov 21 09:11	0°♂44'52			14761 Oct 05 14:56	0°♂
	14757 Jan 05 02:37	0°♂			14761 Nov 13 05:32	0°♂
	14757 Feb 20 23:43	0°♂			14761 Dec 21 16:09	0°♂
evening set	14757 Feb 24 21:51	2°♂29'30			14762 Jan 30 00:07	0°♂
max. Earth dist.	14757 Apr 08 16:06	29°♂35'24 2.68511 AU			14762 Mar 12 16:51	0°♂

	14762 Apr 28 17:38	0°♄		asc. node	14767 May 07 07:52	22°♄53'44	
desc. node	14762 Jul 15 10:34	28°♄33'10			14767 May 17 11:58	0°♄	
retrograde	14762 Jul 17 15:47	28°♄35'06			14767 Jun 27 08:43	0°♄	
min. Earth dist.	14762 Aug 22 18:49	20°♄17'54	0.63575 AU		14767 Aug 05 02:36	0°♄	
opposition	14762 Aug 27 02:19	18°♄35'31	-1°42'39		14767 Sep 12 01:03	0°♄	
greatest brilliancy	14762 Aug 26 18:50	18°♄42'55	-1.5m		14767 Oct 20 05:48	0°♄	
direct	14762 Oct 05 00:59	9°♄32'39		evening set	14767 Nov 01 05:03	9°♄14'53	
	14762 Dec 14 15:55	0°♄			14767 Nov 28 13:53	0°♄	
	14763 Feb 09 10:42	0°♄					
	14763 Mar 31 02:22	0°♄		conjunction	14768 Jan 03 22:18	26°♄35'32	0°36'07
	14763 May 15 22:29	0°♄		minimum elong	14768 Jan 04 00:23	26°♄39'17	0°37'03
evening set	14763 Jun 17 17:36	22°♄45'37			14768 Jan 08 16:56	0°♄	
	14763 Jun 27 20:32	0°♄		max. Earth dist.	14768 Feb 09 16:49	22°♄19'24	2.52938 AU
max. Earth dist.	14763 Jul 01 06:26	2°♄27'44	2.44882 AU		14768 Feb 20 23:52	0°♄	
asc. node	14763 Aug 02 11:43	26°♄14'37		morning rise	14768 Feb 27 10:35	4°♄20'17	
	14763 Aug 07 11:16	0°♄		desc. node	14768 Mar 05 14:32	9°♄07'16	
					14768 Apr 06 13:49	0°♄	
conjunction	14763 Aug 13 01:03	4°♄13'43	0°07'23		14768 May 24 15:04	0°♄	
minimum elong	14763 Aug 13 00:31	4°♄12'40	0°06'50		14768 Jul 15 04:27	0°♄	
behind sun begin	14763 Aug 12 00:39	3°♄27'20			14768 Sep 14 17:17	0°♄	
behind sun end	14763 Aug 14 00:22	4°♄58'03		retrograde	14768 Nov 02 14:31	11°♄08'07	
	14763 Sep 15 10:13	0°♄		opposition	14768 Dec 09 21:18	2°♄58'48	-4°22'01
morning rise	14763 Oct 20 04:21	27°♄22'55		greatest brilliancy	14768 Dec 11 01:13	2°♄32'32	-1.7m
	14763 Oct 23 11:44	0°♄		min. Earth dist.	14768 Dec 16 23:43	0°♄18'43	0.57923 AU
	14763 Nov 30 12:28	0°♄			14768 Dec 17 20:03	30°♄11'45	
	14764 Jan 08 10:16	0°♄		direct	14769 Jan 19 05:26	23°♄17'45	
	14764 Feb 18 04:10	0°♄			14769 Feb 22 04:03	0°♄	
	14764 Apr 01 21:44	0°♄		asc. node	14769 Mar 24 16:28	14°♄01'25	
	14764 May 20 20:50	0°♄			14769 Apr 20 15:20	0°♄	
desc. node	14764 Jun 01 10:29	6°♄19'51			14769 Jun 03 03:48	0°♄	
	14764 Jul 29 10:03	0°♄			14769 Jul 12 22:30	0°♄	
retrograde	14764 Aug 20 00:35	2°♄37'53			14769 Aug 20 12:49	0°♄	
	14764 Sep 09 04:51	30°♄00'00			14769 Sep 28 09:34	0°♄	
opposition	14764 Sep 29 19:11	22°♄50'12	-3°52'43		14769 Nov 07 11:49	0°♄	
min. Earth dist.	14764 Sep 29 07:05	23°♄02'11	0.68466 AU		14769 Dec 19 09:30	0°♄	
greatest brilliancy	14764 Sep 29 16:06	22°♄53'16	-1.2m	evening set	14769 Dec 30 05:15	7°♄31'20	
direct	14764 Nov 09 19:20	13°♄04'29		desc. node	14770 Jan 21 02:45	22°♄29'00	
	14765 Jan 11 06:05	0°♄			14770 Feb 01 07:09	0°♄	
	14765 Mar 08 16:47	0°♄					
	14765 Apr 25 05:10	0°♄		conjunction	14770 Feb 19 05:38	11°♄53'55	-0°16'58
	14765 Jun 07 10:22	0°♄		minimum elong	14770 Feb 19 04:57	11°♄52'49	0°16'33
asc. node	14765 Jun 19 05:22	8°♄34'26		max. Earth dist.	14770 Mar 09 01:01	23°♄32'22	2.63218 AU
	14765 Jul 17 20:33	0°♄			14770 Mar 19 00:42	0°♄	
evening set	14765 Aug 15 05:00	21°♄54'33		morning rise	14770 Apr 06 13:17	11°♄52'17	
	14765 Aug 25 12:22	0°♄			14770 May 05 05:46	0°♄	
	14765 Oct 02 08:48	0°♄			14770 Jun 22 16:55	0°♄	
					14770 Aug 11 18:24	0°♄	
conjunction	14765 Oct 26 11:34	19°♄06'23	1°06'10		14770 Oct 04 13:53	0°♄	
minimum elong	14765 Oct 26 10:07	19°♄03'30	1°06'51	retrograde	14770 Dec 28 07:28	28°♄32'05	
	14765 Nov 09 08:15	0°♄		opposition	14771 Jan 30 03:46	22°♄15'08	-0°41'40
max. Earth dist.	14765 Dec 18 02:13	29°♄49'52	2.38828 AU	greatest brilliancy	14771 Jan 30 10:29	22°♄09'38	-2.5m
	14765 Dec 18 07:35	0°♄		min. Earth dist.	14771 Feb 07 15:18	19°♄29'43	0.44172 AU
morning rise	14766 Jan 05 08:06	13°♄27'51		asc. node	14771 Feb 10 00:54	18°♄45'25	
	14766 Jan 28 01:04	0°♄		direct	14771 Mar 06 19:21	14°♄36'30	
	14766 Mar 12 04:04	0°♄			14771 Apr 26 22:55	0°♄	
desc. node	14766 Apr 19 02:49	24°♄48'50			14771 Jun 14 02:18	0°♄	
	14766 Apr 27 08:53	0°♄			14771 Jul 25 22:58	0°♄	
	14766 Jun 17 07:37	0°♄			14771 Sep 04 23:35	0°♄	
	14766 Aug 23 05:00	0°♄			14771 Oct 16 21:02	0°♄	
retrograde	14766 Sep 23 21:30	5°♄10'37			14771 Nov 29 07:31	0°♄	
	14766 Oct 22 20:20	30°♄00'00		desc. node	14771 Dec 08 22:27	6°♄29'24	
opposition	14766 Nov 02 16:23	25°♄58'40	-4°51'29		14772 Jan 13 09:39	0°♄	
greatest brilliancy	14766 Nov 03 05:21	25°♄46'01	-1.3m	evening set	14772 Feb 11 07:51	18°♄46'29	
min. Earth dist.	14766 Nov 06 01:56	24°♄39'05	0.66574 AU		14772 Feb 28 19:37	0°♄	
direct	14766 Dec 14 06:38	15°♄55'53					
	14767 Feb 06 12:43	0°♄		conjunction	14772 Mar 27 16:59	17°♄46'05	-0°55'07
	14767 Apr 02 12:58	0°♄		minimum elong	14772 Mar 27 15:47	17°♄44'10	0°55'19

max. Earth dist.	14772 Mar 31 07:42	20° Υ 03'40	2.68095 AU	opposition	14777 Aug 12 06:06	4° X 03'24	-0°29'32
	14772 Apr 15 23:54	0° B		greatest brilliancy	14777 Aug 12 03:15	4° X 06'11	-1.7m
morning rise	14772 May 09 23:33	15° B 11'12			14777 Aug 23 06:59	30° R \approx	
	14772 Jun 02 08:40	0° II		direct	14777 Sep 18 23:05	25° \approx 26'18	
	14772 Jul 19 12:16	0° E			14777 Oct 18 09:51	0° X	
	14772 Sep 04 07:51	0° Q			14777 Dec 26 11:46	0° Υ	
	14772 Oct 21 00:23	0° M			14778 Feb 17 16:18	0° B	
	14772 Dec 07 13:38	0° A			14778 Apr 07 09:01	0° II	
asc. node	14772 Dec 28 05:51	12° A 22'55			14778 May 22 23:38	0° E	
	14773 Jan 30 11:19	0° M		evening set	14778 May 30 22:49	5° E 25'49	
retrograde	14773 Mar 18 03:52	12° M 22'28		max. Earth dist.	14778 Jun 14 09:04	15° E 24'53	2.50248 AU
min. Earth dist.	14773 Apr 14 22:30	7° M .51'22	0.36524 AU		14778 Jul 04 23:33	0° Q	
opposition	14773 Apr 16 23:30	7° M .18'48	6°48'21				
greatest brilliancy	14773 Apr 16 11:02	7° M .27'06	-3.0m	conjunction	14778 Jul 21 12:41	11° Q .59'25	-0°19'22
direct	14773 May 15 23:36	2° M .29'36		minimum elong	14778 Jul 21 13:52	12° Q 01'36	0°20'11
	14773 Jul 31 05:34	0° X			14778 Aug 14 19:00	0° M	
	14773 Sep 19 01:36	0° Z		asc. node	14778 Aug 19 06:27	3° M 22'26	
desc. node	14773 Oct 26 02:58	23° Z 18'29		morning rise	14778 Sep 20 01:04	27° M 43'43	
	14773 Nov 05 17:17	0° \approx			14778 Sep 22 23:14	0° A	
	14773 Dec 23 08:45	0° X			14778 Oct 31 04:55	0° M	
	14774 Feb 09 05:56	0° Υ			14778 Dec 08 08:13	0° X	
evening set	14774 Mar 18 16:37	23° Q 29'55			14779 Jan 16 07:53	0° Z	
	14774 Mar 29 00:02	0° B			14779 Feb 26 05:56	0° \approx	
max. Earth dist.	14774 Apr 22 05:52	15° B 22'19	2.67464 AU		14779 Apr 11 15:24	0° X	
					14779 Jun 02 13:14	0° Υ	
conjunction	14774 May 01 09:13	21° B 12'21	-1°11'53	desc. node	14779 Jun 19 01:56	7° Υ 43'13	
minimum elong	14774 May 01 08:55	21° B 11'53	1°12'36	retrograde	14779 Aug 07 20:42	20° Υ 01'55	
	14774 May 15 02:07	0° II		min. Earth dist.	14779 Sep 15 15:23	10° Υ 54'15	0.67351 AU
morning rise	14774 Jun 13 23:57	19° II 25'42		opposition	14779 Sep 17 15:55	10° Υ 06'07	-3°11'27
	14774 Jun 30 00:58	0° E		greatest brilliancy	14779 Sep 17 08:59	10° Υ 12'59	-1.3m
	14774 Aug 13 14:13	0° Q		direct	14779 Oct 28 00:54	0° Υ 33'57	
	14774 Sep 25 15:50	0° M			14780 Jan 24 13:52	0° B	
	14774 Nov 06 08:46	0° A			14780 Mar 17 04:12	0° II	
asc. node	14774 Nov 15 04:25	6° A 26'46			14780 May 02 19:39	0° E	
	14774 Dec 17 04:42	0° M			14780 Jun 14 20:25	0° Q	
	14775 Jan 27 08:48	0° X		asc. node	14780 Jul 05 23:11	15° Q 27'28	
	14775 Mar 13 01:54	0° Z		evening set	14780 Jul 19 23:24	25° Q .57'24	
retrograde	14775 May 22 00:36	26° Z 12'19			14780 Jul 25 07:26	0° M	
min. Earth dist.	14775 Jun 19 04:32	20° Z 41'58	0.47027 AU	max. Earth dist.	14780 Aug 22 14:27	21° M 48'49	2.36885 AU
greatest brilliancy	14775 Jun 26 11:26	18° Z 07'19	-2.3m		14780 Sep 02 01:18	0° A	
opposition	14775 Jun 27 14:19	17° Z 43'22	3°55'43				
direct	14775 Jul 30 22:31	10° Z 50'09		conjunction	14780 Sep 24 16:37	17° A .53'05	0°51'11
desc. node	14775 Sep 13 12:08	20° Z 58'59		minimum elong	14780 Sep 24 12:36	17° A .45'07	0°51'20
	14775 Oct 04 05:02	0° \approx			14780 Oct 09 22:52	0° M	
	14775 Nov 29 22:32	0° X			14780 Nov 16 21:45	0° X	
	14776 Jan 20 07:52	0° Υ		morning rise	14780 Dec 08 12:24	16° X 48'02	
	14776 Mar 09 13:31	0° B			14780 Dec 25 19:12	0° Z	
evening set	14776 Apr 21 22:08	27° B 22'51			14781 Feb 04 10:52	0° \approx	
	14776 Apr 25 23:41	0° II			14781 Mar 19 15:44	0° X	
max. Earth dist.	14776 May 15 02:59	12° II 27'41	2.61370 AU	desc. node	14781 May 05 20:18	0° Υ 13'55	
					14781 May 05 11:09	0° Υ	
conjunction	14776 Jun 06 03:20	27° II 04'57	-1°02'33		14781 Jun 28 02:41	0° B	
minimum elong	14776 Jun 06 04:33	27° II 06'58	1°03'33	retrograde	14781 Sep 09 23:44	22° B 37'03	
	14776 Jun 10 11:25	0° E		opposition	14781 Oct 20 07:33	13° B 08'34	-4°37'11
	14776 Jul 23 23:07	0° Q		greatest brilliancy	14781 Oct 20 13:31	13° B 02'42	-1.2m
morning rise	14776 Jul 24 04:18	0° Q 09'08		min. Earth dist.	14781 Oct 22 04:08	12° B 24'44	0.68144 AU
	14776 Sep 03 13:21	0° M		direct	14781 Nov 30 20:34	3° B 09'18	
asc. node	14776 Oct 01 18:49	21° M 03'47			14782 Feb 20 03:24	0° II	
	14776 Oct 13 13:35	0° A			14782 Apr 11 16:11	0° E	
	14776 Nov 21 12:54	0° M		asc. node	14782 May 23 22:14	28° E 44'24	
	14776 Dec 30 07:26	0° X			14782 May 25 16:39	0° Q	
	14777 Feb 08 01:58	0° Z			14782 Jul 05 07:09	0° M	
	14777 Mar 22 20:01	0° \approx			14782 Aug 12 23:06	0° A	
	14777 May 13 11:45	0° X			14782 Sep 19 19:40	0° M	
retrograde	14777 Jul 03 08:58	13° X 56'52		evening set	14782 Oct 01 23:48	9° M .38'50	
desc. node	14777 Jul 31 21:39	8° X 24'28			14782 Oct 27 21:04	0° X	
min. Earth dist.	14777 Aug 06 12:12	6° X 18'33	0.59894 AU		14782 Dec 06 00:19	0° Z	

conjunction	14782 Dec 11 02:36	3° ♊ 49'06	0°55'21			14788 Jan 01 09:56	0° ♊
minimum elong	14782 Dec 11 05:25	3° ♊ 54'21	0°56'20	asc. node		14788 Jan 14 20:16	4° ♊ 56'41
	14783 Jan 15 21:57	0° ♊		retrograde		14788 Feb 13 20:13	10° ♊ 10'20
max. Earth dist.	14783 Jan 25 23:58	7° ♊ 09'46	2.47609 AU	opposition		14788 Mar 14 14:51	5° ♊ 12'00 4°16'57
morning rise	14783 Feb 09 05:36	17° ♊ 07'04		greatest brilliancy		14788 Mar 15 02:35	5° ♊ 03'56 -3.0m
	14783 Feb 28 01:13	0° ♋		min. Earth dist.		14788 Mar 18 09:54	4° ♊ 09'28 0.37331 AU
desc. node	14783 Mar 23 08:33	15° ♋ 31'52				14788 Apr 08 18:32	30° ♋ 17
	14783 Apr 14 17:17	0° ♌		direct		14788 Apr 14 10:04	29° ♋ 46'37
	14783 Jun 02 11:23	0° ♍				14788 Apr 20 00:28	0° ♊
	14783 Jul 26 16:29	0° ♎				14788 Jul 01 02:24	0° ♌
retrograde	14783 Oct 17 16:04	26° ♎ 36'10				14788 Aug 16 13:29	0° ♍
opposition	14783 Nov 25 03:19	17° ♎ 58'10	-4°47'21			14788 Sep 30 08:55	0° ♎
greatest brilliancy	14783 Nov 26 02:44	17° ♎ 35'42	-1.5m	desc. node		14788 Nov 11 13:57	27° ♎ 56'46
min. Earth dist.	14783 Nov 30 20:28	15° ♎ 46'38	0.62077 AU			14788 Nov 14 17:12	0° ♊
direct	14784 Jan 05 05:34	8° ♎ 01'52				14788 Dec 31 01:51	0° ♋
	14784 Mar 13 15:24	0° ♌				14789 Feb 16 05:58	0° ♌
asc. node	14784 Apr 10 03:27	16° ♌ 02'42		evening set		14789 Mar 04 22:23	10° ♌ 32'48
	14784 May 01 12:44	0° ♍				14789 Apr 04 16:53	0° ♍
	14784 Jun 12 12:03	0° ♎		max. Earth dist.		14789 Apr 13 14:14	5° ♍ 37'59 2.68365 AU
	14784 Jul 21 16:51	0° ♏					
	14784 Aug 28 22:31	0° ♐		conjunction		14789 Apr 17 21:44	8° ♍ 22'07 -1°08'11
	14784 Oct 06 10:54	0° ♑		minimum elong		14789 Apr 17 20:58	8° ♍ 20'53 1°08'44
	14784 Nov 15 04:05	0° ♒				14789 May 21 19:53	0° ♎
evening set	14784 Dec 09 13:11	17° ♒ 47'27		morning rise		14789 May 30 23:53	5° ♎ 53'20
	14784 Dec 26 16:29	0° ♊				14789 Jul 07 03:25	0° ♌
						14789 Aug 21 09:02	0° ♍
conjunction	14785 Feb 02 12:14	26° ♊ 07'00	0°02'39			14789 Oct 04 10:19	0° ♎
minimum elong	14785 Feb 02 12:23	26° ♊ 07'15	0°03'19			14789 Nov 16 10:44	0° ♏
behind sun begin	14785 Feb 01 15:17	25° ♊ 31'35		asc. node		14789 Dec 01 20:46	10° ♏ 51'45
behind sun end	14785 Feb 03 09:28	26° ♊ 42'52				14789 Dec 29 02:17	0° ♐
desc. node	14785 Feb 06 21:09	29° ♊ 04'00				14790 Feb 11 16:06	0° ♑
	14785 Feb 08 06:27	0° ♋				14790 Apr 17 06:16	0° ♒
max. Earth dist.	14785 Feb 27 00:38	12° ♋ 29'59	2.59782 AU	retrograde		14790 Apr 30 08:39	1° ♒ 14'29
morning rise	14785 Mar 23 05:47	28° ♋ 18'58				14790 May 13 10:08	30° ♋ 17
	14785 Mar 25 20:22	0° ♌		min. Earth dist.		14790 May 26 14:31	26° ♋ 35'24 0.41666 AU
	14785 May 12 05:49	0° ♍		greatest brilliancy		14790 Jun 01 22:59	24° ♋ 33'19 -2.6m
	14785 Jun 30 12:26	0° ♎		opposition		14790 Jun 03 11:38	24° ♋ 03'48 5°55'18
	14785 Aug 21 21:51	0° ♏		direct		14790 Jul 04 13:43	18° ♋ 09'09
	14785 Oct 24 17:25	0° ♐				14790 Aug 21 10:55	0° ♒
retrograde	14785 Dec 03 22:26	8° ♐ 04'58		desc. node		14790 Sep 29 22:24	19° ♒ 23'40
opposition	14786 Jan 07 17:44	0° ♑ 56'28	-2°42'58			14790 Oct 19 02:13	0° ♊
greatest brilliancy	14786 Jan 08 17:14	0° ♑ 35'38	-2.2m			14790 Dec 09 10:10	0° ♋
	14786 Jan 10 09:17	30° ♑ 5				14791 Jan 28 00:25	0° ♌
min. Earth dist.	14786 Jan 16 07:56	27° ♑ 54'45	0.49815 AU			14791 Mar 17 12:47	0° ♍
direct	14786 Feb 14 18:58	22° ♑ 11'19		evening set		14791 Apr 09 01:01	14° ♍ 10'59
asc. node	14786 Feb 26 12:40	23° ♑ 07'51				14791 May 03 18:15	0° ♎
	14786 Mar 22 09:45	0° ♒		max. Earth dist.		14791 May 06 11:13	1° ♎ 44'57 2.64403 AU
	14786 May 15 08:38	0° ♓					
	14786 Jun 26 16:17	0° ♏		conjunction		14791 May 23 05:25	12° ♎ 39'46 -1°09'43
	14786 Aug 05 13:16	0° ♐		minimum elong		14791 May 23 06:02	12° ♎ 40'47 1°10'40
	14786 Sep 14 08:57	0° ♑				14791 Jun 18 09:07	0° ♌
	14786 Oct 25 08:03	0° ♒		morning rise		14791 Jul 07 21:10	13° ♌ 11'35
	14786 Dec 07 00:25	0° ♊				14791 Aug 01 05:12	0° ♍
desc. node	14786 Dec 25 13:54	12° ♊ 39'08				14791 Sep 12 06:39	0° ♎
	14787 Jan 20 12:50	0° ♋		asc. node		14791 Oct 19 15:04	27° ♎ 37'12
evening set	14787 Jan 26 17:41	4° ♋ 05'33				14791 Oct 22 19:06	0° ♊
	14787 Mar 07 14:23	0° ♌				14791 Dec 01 06:20	0° ♋
						14792 Jan 09 13:32	0° ♌
conjunction	14787 Mar 14 17:56	4° ♌ 35'07	-0°42'40			14792 Feb 19 04:16	0° ♍
minimum elong	14787 Mar 14 16:43	4° ♌ 33'09	0°42'38			14792 Apr 04 07:00	0° ♊
max. Earth dist.	14787 Mar 23 15:16	10° ♌ 16'07	2.66838 AU	retrograde		14792 Jun 17 22:58	27° ♊ 38'38
	14787 Apr 23 17:02	0° ♍		min. Earth dist.		14792 Jul 19 21:31	20° ♊ 45'03 0.55352 AU
morning rise	14787 Apr 27 18:46	2° ♍ 34'26		opposition		14792 Jul 26 22:35	18° ♊ 02'48 0°59'54
	14787 Jun 10 08:52	0° ♎		greatest brilliancy		14792 Jul 26 16:27	18° ♊ 08'41 -1.9m
	14787 Jul 28 08:06	0° ♏		desc. node		14792 Aug 17 08:24	11° ♊ 25'20
	14787 Sep 14 19:50	0° ♐		direct		14792 Sep 01 03:40	9° ♊ 58'37
	14787 Nov 03 23:54	0° ♑				14792 Nov 08 22:05	0° ♋

	14793 Jan 05 05:22	0°Υ		minimum elong	14797 Nov 12 24:00	6°♄40'08	1°07'26
	14793 Feb 25 08:46	0°♄			14797 Dec 13 10:42	0°♄	
	14793 Apr 14 10:24	0°♂		max. Earth dist.	14798 Jan 05 00:14	16°♄48'03	2.41914 AU
evening set	14793 May 14 21:12	19°♂53'23		morning rise	14798 Jan 19 00:22	26°♄59'38	
	14793 May 29 22:45	0°♄			14798 Jan 23 04:40	0°♄	
max. Earth dist.	14793 Jun 01 04:12	1°♄30'35	2.55174 AU		14798 Mar 07 06:12	0°♄	
				desc. node	14798 Apr 09 04:45	21°♄44'17	
conjunction	14793 Jul 02 03:29	22°♄56'07	-0°40'43		14798 Apr 22 03:55	0°Υ	
minimum elong	14793 Jul 02 05:11	22°♄59'05	0°41'40		14798 Jun 11 00:53	0°♄	
	14793 Jul 12 02:39	0°♂			14798 Aug 09 12:22	0°♂	
	14793 Aug 22 04:37	0°♄		retrograde	14798 Oct 02 05:26	13°♂05'36	
morning rise	14793 Aug 25 09:16	2°♄23'18		opposition	14798 Nov 10 14:23	4°♂04'28	-4°54'08
asc. node	14793 Sep 05 03:45	10°♄29'48		greatest brilliancy	14798 Nov 11 07:14	3°♂48'05	-1.4m
	14793 Sep 30 15:35	0°♄		min. Earth dist.	14798 Nov 14 19:36	2°♂26'06	0.65263 AU
	14793 Nov 08 02:41	0°♄			14798 Nov 21 07:26	30°♄	
	14793 Dec 16 09:42	0°♄		direct	14798 Dec 22 02:10	24°♄02'08	
	14794 Jan 24 13:00	0°♄			14799 Jan 24 06:02	0°♂	
	14794 Mar 06 19:26	0°♄			14799 Mar 26 21:53	0°♄	
	14794 Apr 21 10:38	0°♄		asc. node	14799 Apr 27 16:53	20°♄16'17	
	14794 Jun 20 01:36	0°Υ			14799 May 11 21:49	0°♂	
desc. node	14794 Jul 05 14:30	4°Υ34'36			14799 Jun 22 02:30	0°♄	
retrograde	14794 Jul 25 12:27	6°Υ56'57			14799 Jul 30 23:42	0°♄	
	14794 Aug 27 08:59	30°♄			14799 Sep 07 00:04	0°♄	
min. Earth dist.	14794 Aug 31 15:13	28°♄20'40	0.65206 AU		14799 Oct 15 06:30	0°♄	
opposition	14794 Sep 04 03:37	26°♄56'57	-2°19'13	evening set	14799 Nov 16 12:20	24°♄37'32	
greatest brilliancy	14794 Sep 03 19:18	27°♄05'12	-1.4m		14799 Nov 23 16:40	0°♄	
direct	14794 Oct 13 16:06	17°♄42'21			14800 Jan 03 21:48	0°♄	
	14794 Dec 04 16:38	0°Υ					
	14795 Feb 03 11:35	0°♄		conjunction	14800 Jan 15 18:12	8°♄21'21	0°23'50
	14795 Mar 26 00:28	0°♂		minimum elong	14800 Jan 15 19:33	8°♄23'44	0°24'40
	14795 May 11 03:06	0°♄			14800 Feb 16 05:54	0°♄	
	14795 Jun 23 02:34	0°♂		max. Earth dist.	14800 Feb 16 22:40	0°♄28'17	2.55584 AU
evening set	14795 Jun 28 20:07	4°♂08'41		desc. node	14800 Feb 24 15:35	5°♄38'47	
max. Earth dist.	14795 Jul 14 06:05	15°♂26'47	2.41832 AU	morning rise	14800 Mar 07 20:34	13°♄45'39	
asc. node	14795 Jul 23 16:36	22°♂28'33			14800 Apr 01 18:26	0°Υ	
	14795 Aug 02 16:19	0°♄			14800 May 19 11:48	0°♄	
					14800 Jul 08 23:29	0°♂	
conjunction	14795 Aug 27 11:51	19°♄01'37	0°24'02		14800 Sep 03 14:14	0°♄	
minimum elong	14795 Aug 27 09:47	18°♄57'35	0°23'43	retrograde	14800 Nov 13 04:55	20°♄38'52	
	14795 Sep 10 13:48	0°♄		opposition	14800 Dec 19 16:11	12°♄48'45	-3°55'34
	14795 Oct 18 13:59	0°♄		greatest brilliancy	14800 Dec 20 20:32	12°♄22'29	-1.8m
morning rise	14795 Nov 07 11:09	15°♄44'38		min. Earth dist.	14800 Dec 27 09:53	9°♄57'10	0.55216 AU
	14795 Nov 25 13:40	0°♄		direct	14801 Jan 28 08:22	3°♄22'26	
	14796 Jan 03 10:31	0°♄		asc. node	14801 Mar 15 00:14	15°♄04'24	
	14796 Feb 13 02:06	0°♄			14801 Apr 12 05:32	0°♂	
	14796 Mar 27 12:06	0°♄			14801 May 27 14:37	0°♄	
	14796 May 14 08:40	0°Υ			14801 Jul 07 00:24	0°♄	
desc. node	14796 May 22 13:25	4°Υ43'40			14801 Aug 14 22:58	0°♄	
	14796 Jul 12 20:25	0°♄			14801 Sep 23 01:48	0°♄	
retrograde	14796 Aug 27 14:17	10°♄14'34			14801 Nov 02 09:38	0°♄	
opposition	14796 Oct 07 06:02	0°♄32'44	-4°12'19		14801 Dec 14 12:15	0°♄	
greatest brilliancy	14796 Oct 07 05:46	0°♄33'00	-1.2m	evening set	14802 Jan 09 16:47	17°♄59'17	
min. Earth dist.	14796 Oct 07 13:41	0°♄25'10	0.68640 AU	desc. node	14802 Jan 11 06:15	19°♄02'44	
	14796 Oct 08 15:10	30°♄			14802 Jan 27 13:36	0°♄	
direct	14796 Nov 17 12:06	20°Υ41'11					
	14796 Dec 31 09:48	0°♄		conjunction	14802 Feb 28 00:58	20°♄43'20	-0°27'14
	14797 Mar 02 14:14	0°♂		minimum elong	14802 Feb 27 23:59	20°♄41'45	0°26'57
	14797 Apr 19 23:40	0°♄			14802 Mar 14 08:47	0°Υ	
	14797 Jun 02 11:20	0°♂		max. Earth dist.	14802 Mar 14 12:18	0°Υ05'39	2.64735 AU
asc. node	14797 Jun 09 12:50	5°♂06'14		morning rise	14802 Apr 14 08:52	19°Υ48'49	
	14797 Jul 12 23:00	0°♄			14802 Apr 30 11:55	0°♄	
	14797 Aug 20 14:51	0°♄			14802 Jun 17 14:28	0°♂	
evening set	14797 Aug 31 17:54	8°♄47'19			14802 Aug 05 17:47	0°♄	
	14797 Sep 27 11:06	0°♄			14802 Sep 25 23:00	0°♂	
	14797 Nov 04 10:42	0°♄			14802 Nov 23 22:40	0°♄	
				retrograde	14803 Jan 13 05:47	12°♄26'17	
conjunction	14797 Nov 12 23:04	6°♄38'20	1°06'33	asc. node	14803 Jan 31 09:25	10°♄21'50	

opposition	14803 Feb 13 18:45	6° \cap 41'27	0°54'56		14808 Jan 14 20:32	0° Υ	
greatest brilliancy	14803 Feb 14 00:54	6° \cap 36'44	-2.7m		14808 Mar 04 16:21	0° \mathcal{B}	
min. Earth dist.	14803 Feb 21 09:51	4° \cap 21'25	0.41219 AU		14808 Apr 21 07:45	0° Π	
	14803 Mar 15 03:02	30° $\mathcal{R}\mathcal{Q}$		evening set	14808 Apr 30 01:06	5° Π 38'31	
direct	14803 Mar 19 18:20	29° \mathcal{Q} 50'47		max. Earth dist.	14808 May 21 00:43	19° Π 25'19	2.59368 AU
	14803 Mar 24 09:56	0° \cap			14808 Jun 05 19:54	0° \mathcal{E}	
	14803 Jun 03 23:13	0° \mathcal{L}					
	14803 Jul 18 06:48	0° \mathcal{M}		conjunction	14808 Jun 15 02:45	6° \mathcal{E} 18'02	-0°56'09
	14803 Aug 29 10:49	0° \mathcal{X}		minimum elong	14808 Jun 15 04:14	6° \mathcal{E} 20'34	0°57'09
	14803 Oct 11 01:51	0° \mathcal{Z}			14808 Jul 19 05:04	0° \mathcal{Q}	
	14803 Nov 24 01:01	0° \approx		morning rise	14808 Aug 03 22:46	11° \mathcal{Q} 14'43	
desc. node	14803 Nov 29 03:35	3° \approx 25'10			14808 Aug 29 14:58	0° \cap	
	14804 Jan 08 11:52	0° \mathcal{H}		asc. node	14808 Sep 21 23:15	17° \cap 28'12	
evening set	14804 Feb 19 17:29	27° \mathcal{H} 11'35			14808 Oct 08 10:17	0° \mathcal{L}	
	14804 Feb 24 03:03	0° Υ			14808 Nov 16 04:55	0° \mathcal{M}	
					14808 Dec 24 18:22	0° \mathcal{X}	
conjunction	14804 Apr 04 10:55	25° Υ 36'55	-1°00'55		14809 Feb 02 05:22	0° \mathcal{Z}	
minimum elong	14804 Apr 04 09:49	25° Υ 35'11	1°01'16		14809 Mar 16 05:06	0° \approx	
max. Earth dist.	14804 Apr 05 05:56	26° Υ 07'01	2.68432 AU		14809 May 03 11:34	0° \mathcal{H}	
	14804 Apr 11 09:00	0° \mathcal{B}		retrograde	14809 Jul 11 15:12	22° \mathcal{H} 56'56	
morning rise	14804 May 17 12:25	22° \mathcal{B} 55'46		desc. node	14809 Jul 22 03:59	22° \mathcal{H} 10'34	
	14804 May 28 15:05	0° Π		min. Earth dist.	14809 Aug 15 21:21	14° \mathcal{H} 56'35	0.62041 AU
	14804 Jul 14 10:45	0° \mathcal{E}		opposition	14809 Aug 20 20:40	12° \mathcal{H} 58'52	-1°14'05
	14804 Aug 29 14:51	0° \mathcal{Q}		greatest brilliancy	14809 Aug 20 14:26	13° \mathcal{H} 05'01	-1.6m
	14804 Oct 14 03:31	0° \cap		direct	14809 Sep 28 06:45	4° \mathcal{H} 06'58	
	14804 Nov 28 10:58	0° \mathcal{L}			14809 Dec 19 02:01	0° Υ	
asc. node	14804 Dec 18 14:31	13° \mathcal{L} 09'20			14810 Feb 12 04:40	0° \mathcal{B}	
	14805 Jan 14 09:31	0° \mathcal{M}			14810 Apr 02 11:19	0° Π	
	14805 Mar 21 18:42	0° \mathcal{X}			14810 May 18 06:22	0° \mathcal{E}	
retrograde	14805 Apr 04 04:47	1° \mathcal{X} 15'42		evening set	14810 Jun 09 18:17	15° \mathcal{E} 28'11	
	14805 Apr 17 16:46	30° \mathcal{M}		max. Earth dist.	14810 Jun 23 08:45	25° \mathcal{E} 03'35	2.47334 AU
min. Earth dist.	14805 Apr 30 10:53	26° \mathcal{M} 58'48	0.37579 AU		14810 Jun 30 06:41	0° \mathcal{Q}	
greatest brilliancy	14805 May 04 04:13	25° \mathcal{M} 55'58	-2.9m				
opposition	14805 May 05 07:40	25° \mathcal{M} 36'32	7°06'28	conjunction	14810 Aug 02 18:02	24° \mathcal{Q} 32'26	-0°04'42
direct	14805 Jun 03 16:53	20° \mathcal{M} 35'16		minimum elong	14810 Aug 02 18:25	24° \mathcal{Q} 33'10	0°05'23
	14805 Jul 14 11:43	0° \mathcal{X}		behind sun begin	14810 Aug 01 18:53	23° \mathcal{Q} 49'12	
	14805 Sep 10 11:16	0° \mathcal{Z}		behind sun end	14810 Aug 03 17:57	25° \mathcal{Q} 17'11	
desc. node	14805 Oct 16 08:10	21° \mathcal{Z} 27'44		asc. node	14810 Aug 09 12:10	29° \mathcal{Q} 36'44	
	14805 Oct 30 07:24	0° \approx			14810 Aug 10 00:30	0° \cap	
	14805 Dec 17 22:43	0° \mathcal{H}			14810 Sep 18 02:24	0° \mathcal{L}	
	14806 Feb 04 08:12	0° Υ		morning rise	14810 Oct 06 10:09	14° \mathcal{L} 21'28	
	14806 Mar 24 08:07	0° \mathcal{B}		greatest brilliancy	14810 Oct 23 06:28	27° \mathcal{L} 38'48	1.2m
evening set	14806 Mar 26 11:09	1° \mathcal{B} 20'23			14810 Oct 26 05:56	0° \mathcal{M}	
max. Earth dist.	14806 Apr 27 07:55	21° \mathcal{B} 33'56	2.66609 AU		14810 Dec 03 07:17	0° \mathcal{X}	
					14811 Jan 11 04:49	0° \mathcal{Z}	
conjunction	14806 May 09 04:31	29° \mathcal{B} 10'40	-1°12'19		14811 Feb 20 22:47	0° \approx	
minimum elong	14806 May 09 04:32	29° \mathcal{B} 10'42	1°13'08		14811 Apr 05 19:44	0° \mathcal{H}	
	14806 May 10 11:09	0° Π			14811 May 25 14:40	0° Υ	
morning rise	14806 Jun 22 07:53	28° Π 01'39		desc. node	14811 Jun 09 05:26	7° Υ 37'09	
	14806 Jun 25 07:06	0° \mathcal{E}		retrograde	14811 Aug 15 10:08	27° Υ 47'19	
	14806 Aug 08 14:03	0° \mathcal{Q}		min. Earth dist.	14811 Sep 24 00:31	18° Υ 23'56	0.68095 AU
	14806 Sep 20 06:30	0° \cap		opposition	14811 Sep 25 05:14	17° Υ 55'28	-3°37'08
	14806 Oct 31 12:04	0° \mathcal{L}		greatest brilliancy	14811 Sep 25 00:07	18° Υ 00'32	-1.3m
asc. node	14806 Nov 05 09:54	3° \mathcal{L} 37'49		direct	14811 Nov 04 23:06	8° Υ 15'30	
	14806 Dec 10 17:53	0° \mathcal{M}			14812 Jan 16 22:12	0° \mathcal{B}	
	14807 Jan 20 00:02	0° \mathcal{X}			14812 Mar 11 14:20	0° Π	
	14807 Mar 03 10:42	0° \mathcal{Z}			14812 Apr 27 18:58	0° \mathcal{E}	
	14807 Apr 25 07:29	0° \approx			14812 Jun 09 23:49	0° \mathcal{Q}	
retrograde	14807 Jun 01 19:07	8° \approx 48'00		asc. node	14812 Jun 26 04:47	11° \mathcal{Q} 48'39	
min. Earth dist.	14807 Jul 01 07:26	2° \approx 46'33	0.50067 AU		14812 Jul 20 11:31	0° \cap	
	14807 Jul 08 20:35	30° $\mathcal{R}\mathcal{Z}$		evening set	14812 Aug 03 04:54	10° \cap 30'43	
opposition	14807 Jul 09 09:08	29° \mathcal{Z} 48'25	2°47'34		14812 Aug 28 04:58	0° \mathcal{L}	
greatest brilliancy	14807 Jul 08 14:14	0° \approx 05'52	-2.2m		14812 Oct 05 02:09	0° \mathcal{M}	
direct	14807 Aug 12 19:42	22° \mathcal{Z} 26'57					
desc. node	14807 Sep 03 18:21	25° \mathcal{Z} 13'56		conjunction	14812 Oct 12 10:47	5° \mathcal{M} 50'41	1°01'50
	14807 Sep 19 19:17	0° \approx		minimum elong	14812 Oct 12 07:38	5° \mathcal{M} 44'27	1°02'19
	14807 Nov 22 22:06	0° \mathcal{H}			14812 Nov 12 00:54	0° \mathcal{X}	

max. Earth dist.	14812 Nov 19 19:11	6°♂04'03	2.36725 AU		14817 Oct 10 15:18	0°♂	
	14812 Dec 20 22:22	0°♂		retrograde	14817 Dec 17 02:10	19°♂40'47	
morning rise	14812 Dec 24 17:47	2°♂52'34		opposition	14818 Jan 19 21:03	12°♂59'28	-1°40'23
	14813 Jan 30 13:36	0°♂		greatest brilliancy	14818 Jan 20 12:36	12°♂46'14	-2.3m
	14813 Mar 14 15:14	0°♂		min. Earth dist.	14818 Jan 28 14:27	10°♂02'20	0.46690 AU
desc. node	14813 Apr 25 22:35	27°♂29'32		asc. node	14818 Feb 16 22:04	5°♂21'15	
	14813 Apr 29 23:19	0°♂		direct	14818 Feb 25 17:01	4°♂47'43	
	14813 Jun 20 17:17	0°♂			14818 May 05 14:31	0°♂	
	14813 Sep 11 03:26	0°♂			14818 Jun 19 08:21	0°♂	
retrograde	14813 Sep 17 21:02	0°♂15'53			14818 Jul 30 03:26	0°♂	
	14813 Sep 24 10:23	30°♂♂			14818 Sep 08 12:35	0°♂	
opposition	14813 Oct 27 21:45	20°♂56'03	-4°46'58		14818 Oct 19 21:45	0°♂	
greatest brilliancy	14813 Oct 28 07:32	20°♂46'27	-1.3m		14818 Dec 01 22:22	0°♂	
min. Earth dist.	14813 Oct 30 14:23	19°♂52'41	0.67400 AU	desc. node	14818 Dec 15 16:47	9°♂20'52	
direct	14813 Dec 08 11:43	10°♂54'19			14819 Jan 15 16:48	0°♂	
	14814 Feb 11 22:57	0°♂		evening set	14819 Feb 04 18:42	13°♂07'46	
	14814 Apr 05 19:46	0°♂			14819 Mar 02 22:06	0°♂	
asc. node	14814 May 14 05:30	25°♂38'30					
	14814 May 20 10:02	0°♂		conjunction	14819 Mar 22 19:22	12°♂42'28	-0°50'23
	14814 Jun 30 04:58	0°♂		minimum elong	14819 Mar 22 18:07	12°♂40'28	0°50'29
	14814 Aug 07 22:30	0°♂		max. Earth dist.	14819 Mar 28 17:50	16°♂29'08	2.67647 AU
greatest brilliancy	14814 Aug 07 17:28	29°♂50'05	1.1m		14819 Apr 19 01:06	0°♂	
	14814 Sep 14 20:11	0°♂		morning rise	14819 May 05 08:16	10°♂18'36	
evening set	14814 Oct 19 09:22	27°♂13'16			14819 Jun 05 12:33	0°♂	
	14814 Oct 22 22:53	0°♂			14819 Jul 23 00:17	0°♂	
	14814 Dec 01 03:50	0°♂			14819 Sep 08 11:38	0°♂	
conjunction	14814 Dec 25 01:05	17°♂40'08	0°44'53		14819 Oct 26 09:49	0°♂	
minimum elong	14814 Dec 25 03:40	17°♂44'51	0°45'50	asc. node	14819 Dec 15 19:43	0°♂	
	14815 Jan 11 03:14	0°♂		retrograde	14820 Jan 05 03:57	10°♂48'48	
max. Earth dist.	14815 Feb 03 21:30	16°♂43'01	2.50637 AU	opposition	14820 Mar 03 17:14	28°♂24'05	
morning rise	14815 Feb 19 20:12	27°♂39'47		greatest brilliancy	14820 Apr 02 04:05	23°♂32'21	5°58'42
	14815 Feb 23 06:53	0°♂		min. Earth dist.	14820 Apr 02 04:52	23°♂31'50	-3.0m
desc. node	14815 Mar 13 11:11	12°♂10'11		direct	14820 Apr 02 19:10	23°♂22'24	0.36438 AU
	14815 Apr 09 20:01	0°♂			14820 May 01 13:44	18°♂36'35	
	14815 May 28 02:00	0°♂			14820 Jun 14 18:21	0°♂	
	14815 Jul 19 11:49	0°♂			14820 Aug 07 11:14	0°♂	
	14815 Sep 25 03:40	0°♂		desc. node	14820 Sep 23 11:27	0°♂	
retrograde	14815 Oct 27 01:55	5°♂13'02			14820 Nov 01 19:55	25°♂25'58	
	14815 Nov 25 04:13	30°♂♂			14820 Nov 08 22:16	0°♂	
opposition	14815 Dec 03 21:45	26°♂49'58	-4°35'07		14820 Dec 25 21:56	0°♂	
greatest brilliancy	14815 Dec 04 23:56	26°♂25'04	-1.6m	evening set	14821 Feb 11 10:39	0°♂	
min. Earth dist.	14815 Dec 10 09:17	24°♂22'14	0.59896 AU		14821 Mar 12 20:03	18°♂30'08	
direct	14816 Jan 13 14:44	17°♂00'39		max. Earth dist.	14821 Mar 31 01:21	0°♂	
	14816 Mar 03 06:31	0°♂			14821 Apr 18 14:24	11°♂45'06	2.67973 AU
asc. node	14816 Mar 31 13:20	14°♂51'39		conjunction	14821 Apr 25 14:14	16°♂11'57	-1°10'51
	14816 Apr 24 21:29	0°♂		minimum elong	14821 Apr 25 13:43	16°♂11'08	1°11'30
	14816 Jun 06 16:43	0°♂			14821 May 17 04:02	0°♂	
	14816 Jul 16 05:00	0°♂		morning rise	14821 Jun 07 21:35	14°♂02'12	
	14816 Aug 23 15:02	0°♂			14821 Jul 02 07:19	0°♂	
	14816 Oct 01 07:03	0°♂			14821 Aug 16 04:10	0°♂	
	14816 Nov 10 03:56	0°♂			14821 Sep 28 16:15	0°♂	
evening set	14816 Dec 21 15:16	29°♂51'28			14821 Nov 09 22:02	0°♂	
	14816 Dec 21 20:07	0°♂		asc. node	14821 Nov 22 03:52	8°♂49'21	
desc. node	14817 Jan 27 22:58	25°♂34'09			14821 Dec 21 10:02	0°♂	
	14817 Feb 03 12:53	0°♂			14822 Feb 01 14:58	0°♂	
conjunction	14817 Feb 12 05:49	5°♂49'04	-0°09'04	retrograde	14822 Mar 21 11:46	0°♂	
minimum elong	14817 Feb 12 05:26	5°♂48'26	0°08'33	min. Earth dist.	14822 May 13 02:44	16°♂25'30	
behind sun begin	14817 Feb 11 11:45	5°♂19'00		greatest brilliancy	14822 Jun 09 06:27	11°♂19'25	0.44561 AU
behind sun end	14817 Feb 12 23:07	6°♂17'50		opposition	14822 Jun 16 07:38	8°♂55'39	-2.5m
max. Earth dist.	14817 Mar 04 21:55	19°♂27'12	2.61794 AU	direct	14822 Jun 17 15:52	8°♂28'02	4°48'51
	14817 Mar 21 03:38	0°♂		desc. node	14822 Jul 20 01:04	2°♂00'03	
morning rise	14817 Mar 31 12:18	6°♂39'51			14822 Sep 20 04:59	19°♂58'40	
	14817 May 07 09:25	0°♂			14822 Oct 10 08:51	0°♂	
	14817 Jun 25 03:21	0°♂			14822 Dec 03 06:44	0°♂	
	14817 Aug 15 00:42	0°♂			14823 Jan 22 19:44	0°♂	
					14823 Mar 12 17:50	0°♂	

evening set	14823 Apr 16 22:07	22°♄10'47		morning rise	14827 Nov 25 20:15	4°♄05'16	
	14823 Apr 29 02:30	0°♄			14827 Dec 29 11:08	0°♄	
max. Earth dist.	14823 May 12 00:26	8°♄22'26	2.62828 AU		14828 Feb 08 01:20	0°♄	
					14828 Mar 22 06:09	0°♄	
conjunction	14823 May 31 14:28	21°♄15'31	-1°06'10		14828 May 08 08:19	0°♄	
minimum elong	14823 May 31 15:26	21°♄17'06	1°07'10	desc. node	14828 May 12 16:12	2°♄35'21	
	14823 Jun 13 16:37	0°♄			14828 Jul 02 14:36	0°♄	
morning rise	14823 Jul 17 10:48	23°♄04'03		retrograde	14828 Sep 04 05:27	17°♄48'46	
	14823 Jul 27 09:00	0°♄		opposition	14828 Oct 14 17:01	8°♄13'50	-4°28'12
	14823 Sep 07 05:08	0°♄		greatest brilliancy	14828 Oct 14 20:04	8°♄10'50	-1.2m
asc. node	14823 Oct 09 19:35	24°♄13'12		min. Earth dist.	14828 Oct 15 20:40	7°♄46'34	0.68503 AU
	14823 Oct 17 11:14	0°♄			14828 Nov 08 18:25	30°♄	
	14823 Nov 25 15:55	0°♄		direct	14828 Nov 25 03:23	28°♄17'42	
	14824 Jan 03 15:06	0°♄			14828 Dec 12 14:08	0°♄	
	14824 Feb 12 15:42	0°♄			14829 Feb 23 23:35	0°♄	
	14824 Mar 27 01:52	0°♄			14829 Apr 14 14:23	0°♄	
	14824 May 22 00:04	0°♄			14829 May 28 10:38	0°♄	
retrograde	14824 Jun 26 21:30	7°♄39'20		asc. node	14829 May 30 20:59	1°♄44'30	
min. Earth dist.	14824 Jul 30 01:52	0°♄20'16	0.57957 AU		14829 Jul 08 01:02	0°♄	
	14824 Jul 30 22:56	30°♄			14829 Aug 15 17:26	0°♄	
opposition	14824 Aug 05 10:20	27°♄51'53	0°05'51	evening set	14829 Sep 18 03:16	26°♄28'22	
greatest brilliancy	14825 Mar 22 07:06	18°♄25'10	1.8m		14829 Sep 22 13:51	0°♄	
desc. node	14824 Aug 07 14:31	27°♄01'29			14829 Oct 30 13:51	0°♄	
direct	14824 Sep 11 11:58	19°♄28'39					
	14824 Oct 28 11:43	0°♄		conjunction	14829 Nov 29 08:14	22°♄58'59	1°01'39
	14824 Dec 29 21:47	0°♄		minimum elong	14829 Nov 29 10:40	23°♄03'38	1°02'36
	14825 Feb 20 04:20	0°♄			14829 Dec 08 14:28	0°♄	
	14825 Apr 09 15:18	0°♄		max. Earth dist.	14830 Jan 18 04:59	29°♄52'44	2.45077 AU
evening set	14825 May 23 20:12	29°♄02'34			14830 Jan 18 09:02	0°♄	
	14825 May 25 06:10	0°♄		morning rise	14830 Jan 31 10:55	9°♄17'59	
max. Earth dist.	14825 Jun 08 11:34	9°♄43'02	2.52517 AU		14830 Mar 02 09:45	0°♄	
	14825 Jul 07 09:00	0°♄		desc. node	14830 Mar 30 05:08	18°♄29'08	
					14830 Apr 17 02:13	0°♄	
conjunction	14825 Jul 12 19:11	3°♄53'20	-0°29'10		14830 Jun 05 04:12	0°♄	
minimum elong	14825 Jul 12 20:42	3°♄56'04	0°30'02		14830 Jul 30 22:45	0°♄	
	14825 Aug 17 08:22	0°♄		retrograde	14830 Oct 10 21:17	21°♄11'48	
asc. node	14825 Aug 26 07:05	6°♄43'58		opposition	14830 Nov 18 18:23	12°♄22'45	-4°51'56
morning rise	14825 Sep 08 07:02	16°♄36'52		greatest brilliancy	14830 Nov 19 14:58	12°♄02'52	-1.4m
	14825 Sep 25 16:10	0°♄		min. Earth dist.	14830 Nov 23 19:14	10°♄26'03	0.63631 AU
	14825 Nov 03 00:32	0°♄		direct	14830 Dec 30 01:17	2°♄22'54	
	14825 Dec 11 05:11	0°♄			14831 Mar 19 12:21	0°♄	
	14826 Jan 19 05:18	0°♄		asc. node	14831 Apr 18 00:59	17°♄59'21	
	14826 Mar 01 04:58	0°♄			14831 May 06 00:50	0°♄	
	14826 Apr 14 22:11	0°♄			14831 Jun 16 16:36	0°♄	
	14826 Jun 07 18:33	0°♄			14831 Jul 25 18:17	0°♄	
desc. node	14826 Jun 25 20:04	7°♄29'33			14831 Sep 01 21:28	0°♄	
retrograde	14826 Aug 02 04:25	14°♄59'52			14831 Oct 10 06:33	0°♄	
min. Earth dist.	14826 Sep 09 05:24	6°♄06'02	0.66519 AU		14831 Nov 18 19:23	0°♄	
opposition	14826 Sep 11 22:25	5°♄01'30	-2°51'23	evening set	14831 Nov 30 12:56	8°♄39'49	
greatest brilliancy	14826 Sep 11 14:24	5°♄09'27	-1.3m		14831 Dec 30 03:08	0°♄	
	14826 Sep 25 13:08	30°♄					
direct	14826 Oct 21 23:06	25°♄36'48		conjunction	14832 Jan 26 16:38	19°♄13'07	0°11'28
	14826 Nov 20 01:35	0°♄		minimum elong	14832 Jan 26 17:16	19°♄14'12	0°12'11
	14827 Jan 28 02:19	0°♄		behind sun begin	14832 Jan 26 02:48	18°♄49'24	
	14827 Mar 20 19:21	0°♄		behind sun end	14832 Jan 27 07:43	19°♄38'59	
	14827 May 06 06:41	0°♄			14832 Feb 11 12:53	0°♄	
	14827 Jun 18 08:12	0°♄		desc. node	14832 Feb 14 17:37	2°♄09'14	
evening set	14827 Jul 10 20:56	16°♄28'33		max. Earth dist.	14832 Feb 23 13:59	8°♄04'31	2.57991 AU
asc. node	14827 Jul 13 22:57	18°♄46'11		morning rise	14832 Mar 16 18:47	22°♄42'23	
	14827 Jul 28 21:27	0°♄			14832 Mar 28 00:42	0°♄	
max. Earth dist.	14827 Jul 31 13:34	2°♄01'48	2.38884 AU		14832 May 14 11:53	0°♄	
	14827 Sep 05 17:21	0°♄			14832 Jul 03 04:25	0°♄	
					14832 Aug 25 22:57	0°♄	
conjunction	14827 Sep 12 09:34	5°♄14'44	0°40'18		14832 Nov 13 10:15	0°♄	
minimum elong	14827 Sep 12 06:02	5°♄07'46	0°40'15	retrograde	14832 Nov 24 12:01	0°♄43'05	
	14827 Oct 13 16:10	0°♄			14832 Dec 05 03:22	30°♄	
	14827 Nov 20 14:59	0°♄		opposition	14832 Dec 30 02:40	23°♄14'35	-3°18'31

greatest brilliancy	14832 Dec 31 05:16	22° ♄ 50'29	-2.0m		14838 May 05 20:16	0° ♄	
min. Earth dist.	14833 Jan 07 09:37	20° ♄ 15'02	0.52301 AU				
direct	14833 Feb 06 22:56	14° ♄ 08'22		conjunction	14838 May 17 02:42	7° ♄ 17'35	-1°11'23
asc. node	14833 Mar 05 09:41	18° ♄ 32'52		minimum elong	14838 May 17 03:03	7° ♄ 18'09	1°12'16
	14833 Apr 01 13:38	0° ♄			14838 Jun 20 14:13	0° ♄	
	14833 May 20 09:49	0° ♄		morning rise	14838 Jul 01 00:03	6° ♄ 58'59	
	14833 Jun 30 17:59	0° ♄			14838 Aug 03 15:44	0° ♄	
	14833 Aug 09 03:25	0° ♄			14838 Sep 15 00:24	0° ♄	
	14833 Sep 17 14:13	0° ♄			14838 Oct 25 20:24	0° ♄	
	14833 Oct 28 04:49	0° ♄		asc. node	14838 Oct 26 15:08	0° ♄ 34'58	
	14833 Dec 09 13:31	0° ♄			14838 Dec 04 15:14	0° ♄	
desc. node	14834 Jan 01 09:38	15° ♄ 38'19			14839 Jan 13 06:37	0° ♄	
evening set	14834 Jan 19 13:57	27° ♄ 50'57			14839 Feb 23 10:32	0° ♄	
	14834 Jan 22 19:31	0° ♄			14839 Apr 11 10:02	0° ♄	
				retrograde	14839 Jun 11 18:49	20° ♄ 21'13	
conjunction	14834 Mar 08 12:52	29° ♄ 14'26	-0°36'37	min. Earth dist.	14839 Jul 12 16:24	13° ♄ 49'45	0.53067 AU
minimum elong	14834 Mar 08 11:42	29° ♄ 12'34	0°36'29	opposition	14839 Jul 20 05:25	10° ♄ 58'33	1°43'24
	14834 Mar 09 17:09	0° ♄		greatest brilliancy	14839 Jul 19 18:12	11° ♄ 09'10	-2.0m
max. Earth dist.	14834 Mar 19 19:10	6° ♄ 28'44	2.66000 AU	direct	14839 Aug 24 15:59	3° ♄ 12'07	
morning rise	14834 Apr 22 01:45	27° ♄ 38'57		desc. node	14839 Aug 25 01:36	3° ♄ 12'11	
	14834 Apr 25 19:04	0° ♄			14839 Nov 14 23:37	0° ♄	
	14834 Jun 12 14:49	0° ♄			14840 Jan 09 03:17	0° ♄	
	14834 Jul 31 01:00	0° ♄			14840 Feb 28 16:44	0° ♄	
	14834 Sep 18 12:37	0° ♄			14840 Apr 16 14:41	0° ♄	
	14834 Nov 10 06:18	0° ♄		evening set	14840 May 08 08:36	14° ♄ 07'42	
asc. node	14835 Jan 21 18:25	27° ♄ 21'54		max. Earth dist.	14840 May 27 07:44	26° ♄ 43'53	2.57148 AU
retrograde	14835 Jan 30 11:46	27° ♄ 50'35			14840 Jun 01 04:12	0° ♄	
opposition	14835 Mar 01 21:36	22° ♄ 34'44	2°47'26				
greatest brilliancy	14835 Mar 02 10:46	22° ♄ 25'14	-2.9m	conjunction	14840 Jun 24 12:33	15° ♄ 59'11	-0°47'59
min. Earth dist.	14835 Mar 07 18:14	20° ♄ 53'29	0.38777 AU	minimum elong	14840 Jun 24 14:12	16° ♄ 02'03	0°48'58
direct	14835 Apr 03 02:41	16° ♄ 33'20			14840 Jul 14 11:33	0° ♄	
	14835 May 20 07:04	0° ♄		morning rise	14840 Aug 15 14:10	23° ♄ 13'26	
	14835 Jul 09 08:32	0° ♄			14840 Aug 24 18:05	0° ♄	
	14835 Aug 22 08:44	0° ♄		asc. node	14840 Sep 12 04:46	13° ♄ 49'58	
	14835 Oct 05 00:01	0° ♄			14840 Oct 03 09:18	0° ♄	
	14835 Nov 18 14:53	0° ♄			14840 Nov 10 23:46	0° ♄	
desc. node	14835 Nov 19 07:54	0° ♄ 28'11			14840 Dec 19 09:06	0° ♄	
	14836 Jan 03 12:08	0° ♄			14841 Jan 27 14:11	0° ♄	
	14836 Feb 19 09:39	0° ♄			14841 Mar 10 00:54	0° ♄	
evening set	14836 Feb 27 21:40	5° ♄ 23'49			14841 Apr 25 09:21	0° ♄	
	14836 Apr 06 17:55	0° ♄			14841 Jul 03 15:04	0° ♄	
max. Earth dist.	14836 Apr 10 03:52	2° ♄ 09'47	2.68496 AU	desc. node	14841 Jul 12 08:20	1° ♄ 14'50	
				retrograde	14841 Jul 19 15:38	1° ♄ 35'33	
conjunction	14836 Apr 12 03:43	3° ♄ 25'35	-1°05'38		14841 Aug 03 21:04	30° ♄	
minimum elong	14836 Apr 12 02:48	3° ♄ 24'07	1°06'06	min. Earth dist.	14841 Aug 24 22:49	23° ♄ 15'01	0.63921 AU
	14836 May 23 22:15	0° ♄		opposition	14841 Aug 29 03:31	21° ♄ 35'19	-1°54'01
morning rise	14836 May 25 04:05	0° ♄ 47'42		greatest brilliancy	14841 Aug 28 19:27	21° ♄ 43'18	-1.5m
	14836 Jul 09 11:16	0° ♄		direct	14841 Oct 07 05:13	12° ♄ 30'14	
	14836 Aug 24 02:30	0° ♄			14841 Dec 10 09:36	0° ♄	
	14836 Oct 07 18:25	0° ♄			14842 Feb 06 10:10	0° ♄	
	14836 Nov 20 15:25	0° ♄			14842 Mar 28 10:47	0° ♄	
asc. node	14836 Dec 08 20:11	12° ♄ 29'02			14842 May 13 11:38	0° ♄	
	14837 Jan 03 15:56	0° ♄		evening set	14842 Jun 20 05:20	26° ♄ 12'00	
	14837 Feb 20 16:18	0° ♄			14842 Jun 25 12:46	0° ♄	
retrograde	14837 Apr 19 12:55	19° ♄ 10'04		max. Earth dist.	14842 Jul 04 03:26	6° ♄ 13'10	2.44307 AU
min. Earth dist.	14837 May 15 09:53	14° ♄ 46'55	0.39588 AU	asc. node	14842 Jul 30 17:07	25° ♄ 50'49	
greatest brilliancy	14837 May 20 20:04	13° ♄ 08'30	-2.8m		14842 Aug 05 05:33	0° ♄	
opposition	14837 May 22 07:48	12° ♄ 41'20	6°37'50				
direct	14837 Jun 21 11:33	7° ♄ 13'02		conjunction	14842 Aug 16 03:05	8° ♄ 16'34	0°11'27
	14837 Aug 30 19:50	0° ♄		minimum elong	14842 Aug 16 02:12	8° ♄ 14'52	0°10'57
desc. node	14837 Oct 06 15:18	20° ♄ 14'33		behind sun begin	14842 Aug 15 06:32	7° ♄ 37'21	
	14837 Oct 23 08:43	0° ♄		behind sun end	14842 Aug 16 21:52	8° ♄ 52'25	
	14837 Dec 12 08:06	0° ♄			14842 Sep 13 05:40	0° ♄	
	14838 Jan 30 08:38	0° ♄			14842 Oct 21 07:33	0° ♄	
	14838 Mar 19 15:23	0° ♄		morning rise	14842 Oct 24 01:43	2° ♄ 10'58	
evening set	14838 Apr 03 04:36	9° ♄ 09'43			14842 Nov 28 07:41	0° ♄	
max. Earth dist.	14838 May 02 12:26	27° ♄ 51'25	2.65493 AU		14843 Jan 06 03:48	0° ♄	

	14843 Feb 15 18:37	0°♊			14848 Feb 15 01:53	0°♎	
	14843 Mar 31 06:29	0°♋	asc. node		14848 Mar 21 21:25	14°♎43'34	
	14843 May 18 15:55	0°♌			14848 Apr 17 10:04	0°♏	
desc. node	14843 May 30 08:24	6°♌31'50			14848 May 31 12:45	0°♐	
	14843 Jul 21 22:43	0°♍			14848 Jul 10 12:38	0°♑	
retrograde	14843 Aug 22 22:59	5°♍27'11			14848 Aug 18 04:59	0°♒	
	14843 Sep 21 07:34	30°♍♌			14848 Sep 26 02:05	0°♓	
opposition	14843 Oct 02 16:39	25°♌40'18 -3°59'13			14848 Nov 05 03:39	0°♐	
min. Earth dist.	14843 Oct 02 07:32	25°♌49'21 0.68528 AU			14848 Dec 17 00:01	0°♑	
greatest brilliancy	14843 Oct 02 13:58	25°♌42'58 -1.2m	evening set		14849 Jan 01 17:18	10°♑54'50	
direct	14843 Nov 12 18:02	15°♌53'34	desc. node		14849 Jan 18 01:56	22°♑05'02	
	14844 Jan 07 18:27	0°♍			14849 Jan 29 20:06	0°♋	
	14844 Mar 05 17:35	0°♎					
	14844 Apr 22 15:50	0°♏	conjunction		14849 Feb 21 09:19	14°♋57'04 -0°19'57	
	14844 Jun 05 01:52	0°♏	minimum elong		14849 Feb 21 08:32	14°♋55'48 0°19'35	
asc. node	14844 Jun 16 11:36	8°♏15'46	max. Earth dist.		14849 Mar 10 13:12	26°♋08'59 2.63516 AU	
	14844 Jul 15 14:44	0°♐			14849 Mar 16 12:03	0°♌	
evening set	14844 Aug 18 17:52	26°♐23'55	morning rise		14849 Apr 08 11:50	14°♌44'10	
	14844 Aug 23 07:52	0°♑			14849 May 02 15:15	0°♍	
	14844 Sep 30 04:36	0°♒			14849 Jun 19 23:22	0°♎	
conjunction	14844 Oct 30 09:11	23°♒54'18 1°06'51			14849 Aug 08 18:03	0°♏	
minimum elong	14844 Oct 30 08:18	23°♒52'34 1°07'36			14849 Sep 30 17:08	0°♏	
	14844 Nov 07 03:29	0°♓	retrograde		14849 Dec 11 01:04	0°♐	
	14844 Dec 16 01:25	0°♐			14849 Dec 31 18:35	2°♐27'59	
max. Earth dist.	14844 Dec 22 08:09	4°♐44'05 2.39399 AU	opposition		14850 Jan 20 14:42	30°♐♏	
morning rise	14845 Jan 08 13:17	17°♐31'45	greatest brilliancy		14850 Feb 02 08:04	26°♏17'39 -0°19'09	
	14845 Jan 25 16:44	0°♑	asc. node		14850 Feb 02 11:16	26°♏15'04 -2.6m	
	14845 Mar 09 16:31	0°♋	min. Earth dist.		14850 Feb 07 06:22	24°♏41'52	
desc. node	14845 Apr 16 01:06	24°♋32'54	direct		14850 Feb 10 17:37	23°♏35'45 0.43556 AU	
	14845 Apr 24 16:00	0°♌			14850 Mar 09 17:05	18°♏48'09	
	14845 Jun 14 02:17	0°♍			14850 Apr 21 07:20	0°♐	
	14845 Aug 16 10:38	0°♎			14850 Jun 10 18:26	0°♑	
retrograde	14845 Sep 25 23:28	8°♎02'31			14850 Jul 23 02:52	0°♒	
	14845 Nov 01 18:01	30°♎♌			14850 Sep 02 08:00	0°♓	
opposition	14845 Nov 04 15:43	28°♌52'25 -4°52'38			14850 Oct 14 07:20	0°♐	
greatest brilliancy	14845 Nov 05 05:23	28°♌39'04 -1.3m	desc. node		14850 Nov 26 18:28	0°♑	
min. Earth dist.	14845 Nov 08 04:06	27°♌30'00 0.66352 AU			14850 Dec 05 21:53	6°♑10'01	
direct	14845 Dec 16 04:58	18°♌49'46	evening set		14851 Jan 10 20:37	0°♋	
	14846 Feb 01 15:53	0°♎			14851 Feb 13 09:52	21°♋45'21	
	14846 Mar 30 14:12	0°♏			14851 Feb 26 06:25	0°♌	
asc. node	14846 May 04 14:27	22°♏47'29	conjunction		14851 Mar 30 15:27	20°♌37'10 -0°56'58	
	14846 May 14 23:56	0°♏	minimum elong		14851 Mar 30 14:16	20°♌35'17 0°57'13	
	14846 Jun 25 01:23	0°♐	max. Earth dist.		14851 Apr 02 17:46	22°♌35'02 2.68190 AU	
	14846 Aug 02 21:22	0°♑			14851 Apr 14 10:28	0°♍	
	14846 Sep 09 20:21	0°♒	morning rise		14851 May 12 20:24	17°♍59'52	
	14846 Oct 18 00:31	0°♓			14851 May 31 18:47	0°♎	
evening set	14846 Nov 04 16:51	13°♓38'41			14851 Jul 17 21:14	0°♏	
	14846 Nov 26 07:13	0°♐			14851 Sep 02 14:06	0°♏	
conjunction	14847 Jan 06 17:42	0°♑16'36 0°32'59			14851 Oct 19 00:44	0°♐	
minimum elong	14847 Jan 06 19:38	0°♑20'03 0°33'53	asc. node		14851 Dec 04 23:41	0°♑	
	14847 Jan 06 08:23	0°♑			14851 Dec 26 12:55	13°♑13'51	
max. Earth dist.	14847 Feb 11 18:09	25°♑23'14 2.53458 AU	retrograde		14852 Jan 25 08:31	0°♒	
	14847 Feb 18 13:03	0°♋	min. Earth dist.		14852 Mar 22 00:20	17°♒24'17	
morning rise	14847 Mar 01 17:53	7°♋32'05	greatest brilliancy		14852 Apr 18 10:38	12°♒57'34 0.36618 AU	
desc. node	14847 Mar 03 12:27	8°♋43'07	opposition		14852 Apr 20 09:25	12°♒26'10 -3.0m	
	14847 Apr 05 00:10	0°♌	direct		14852 Apr 21 00:57	12°♒15'42 6°58'28	
	14847 Apr 22 20:52	0°♍			14852 May 20 02:47	7°♒26'04	
	14847 Jul 12 23:49	0°♎			14852 Jul 26 14:30	0°♓	
	14847 Sep 10 11:38	0°♏	desc. node		14852 Sep 15 17:59	0°♐	
retrograde	14847 Nov 06 02:22	14°♏18'04			14852 Oct 23 01:14	23°♐15'02	
opposition	14847 Dec 13 05:10	6°♏12'08 -4°15'12			14852 Nov 02 19:13	0°♑	
greatest brilliancy	14847 Dec 14 08:56	5°♏46'02 -1.7m			14852 Dec 20 14:49	0°♋	
min. Earth dist.	14847 Dec 20 09:43	3°♏30'26 0.57412 AU	evening set		14853 Feb 06 14:15	0°♌	
	14847 Dec 30 20:40	30°♋♎			14853 Mar 20 15:21	26°♌21'44	
direct	14848 Jan 22 09:18	26°♎33'55	max. Earth dist.		14853 Mar 26 09:52	0°♍	
					14853 Apr 23 14:21	17°♍52'01 2.67328 AU	

conjunction	14853 May 03 07:30	24° ♄ 04'21	-1°12'14		14858 Apr 08 20:18	0° ♄	
minimum elong	14853 May 03 07:18	24° ♄ 04'01	1°12'58		14858 May 29 17:54	0° ♄	
	14853 May 12 13:08	0° ♄		desc. node	14858 Jun 16 00:06	8° ♄ 25'09	
morning rise	14853 Jun 15 23:59	22° ♄ 23'31		retrograde	14858 Aug 09 18:41	22° ♄ 53'26	
	14853 Jun 27 12:52	0° ♄		min. Earth dist.	14858 Sep 17 16:32	13° ♄ 43'05	0.67519 AU
	14853 Aug 11 02:32	0° ♄		opposition	14858 Sep 19 13:57	12° ♄ 58'02	-3°19'45
	14853 Sep 23 04:02	0° ♄		greatest brilliancy	14858 Sep 19 07:11	13° ♄ 04'45	-1.3m
	14853 Nov 03 20:01	0° ♄		direct	14858 Oct 30 01:00	3° ♄ 24'29	
asc. node	14853 Nov 12 09:55	6° ♄ 16'53			14859 Jan 20 23:52	0° ♄	
	14853 Dec 14 13:30	0° ♄			14859 Mar 15 08:31	0° ♄	
	14854 Jan 24 11:20	0° ♄			14859 May 01 07:09	0° ♄	
	14854 Mar 09 08:10	0° ♄			14859 Jun 13 12:01	0° ♄	
	14854 May 21 08:04	0° ♄		asc. node	14859 Jul 04 04:40	15° ♄ 05'58	
retrograde	14854 May 24 15:28	0° ♄		evening set	14859 Jul 24 01:26	29° ♄ 59'36	
	14854 May 27 22:12	30° ♄			14859 Jul 24 01:39	0° ♄	
min. Earth dist.	14854 Jun 22 01:56	24° ♄ 27'49	0.47589 AU		14859 Aug 31 20:59	0° ♄	
greatest brilliancy	14854 Jun 29 08:39	21° ♄ 51'44	-2.3m	max. Earth dist.	14859 Sep 02 20:56	1° ♄ 34'12	2.36561 AU
opposition	14854 Jun 30 09:39	21° ♄ 29'16	3°38'48				
direct	14854 Aug 02 22:41	14° ♄ 30'27		conjunction	14859 Sep 29 11:33	22° ♄ 36'22	0°54'10
desc. node	14854 Sep 10 10:58	22° ♄ 20'57		minimum elong	14859 Sep 29 07:36	22° ♄ 28'32	0°54'26
	14854 Sep 29 08:25	0° ♄			14859 Oct 08 19:00	0° ♄	
	14854 Nov 26 16:00	0° ♄			14859 Nov 15 17:23	0° ♄	
	14855 Jan 17 11:06	0° ♄		morning rise	14859 Dec 13 03:38	21° ♄ 18'00	
	14855 Mar 07 21:25	0° ♄			14859 Dec 24 13:19	0° ♄	
evening set	14855 Apr 24 21:45	0° ♄			14860 Feb 03 02:28	0° ♄	
	14855 Apr 24 10:40	0° ♄			14860 Mar 17 03:25	0° ♄	
max. Earth dist.	14855 May 17 16:52	15° ♄ 08'24	2.61018 AU	desc. node	14860 May 02 18:32	0° ♄ 04'22	
					14860 May 02 15:42	0° ♄	
conjunction	14855 Jun 09 06:23	0° ♄ 09'35	-1°01'02		14860 Jun 24 10:09	0° ♄	
minimum elong	14855 Jun 09 07:40	0° ♄ 11'44	1°02'01	retrograde	14860 Sep 11 23:30	25° ♄ 25'27	
	14855 Jun 09 00:42	0° ♄		opposition	14860 Oct 22 05:23	15° ♄ 58'17	-4°40'36
	14855 Jul 22 14:02	0° ♄		greatest brilliancy	14860 Oct 22 12:04	15° ♄ 51'43	-1.3m
morning rise	14855 Jul 27 14:40	3° ♄ 33'11		min. Earth dist.	14860 Oct 24 05:01	15° ♄ 11'27	0.68020 AU
	14855 Sep 02 05:19	0° ♄		direct	14860 Dec 02 18:18	5° ♄ 58'39	
asc. node	14855 Sep 29 23:47	20° ♄ 42'17			14861 Feb 16 13:13	0° ♄	
	14855 Oct 12 06:00	0° ♄			14861 Apr 08 22:20	0° ♄	
	14855 Nov 20 05:04	0° ♄		asc. node	14861 May 21 03:29	28° ♄ 30'30	
	14855 Dec 28 22:15	0° ♄			14861 May 23 05:56	0° ♄	
	14856 Feb 06 13:17	0° ♄			14861 Jul 02 23:59	0° ♄	
	14856 Mar 19 22:34	0° ♄			14861 Aug 10 17:42	0° ♄	
	14856 May 09 01:41	0° ♄			14861 Sep 17 14:51	0° ♄	
retrograde	14856 Jul 05 09:54	17° ♄ 04'04		evening set	14861 Oct 05 21:39	14° ♄ 28'39	
desc. node	14856 Jul 28 20:56	13° ♄ 15'12		greatest brilliancy	14861 Oct 09 21:07	17° ♄ 36'55	1.1m
min. Earth dist.	14856 Aug 08 18:20	9° ♄ 21'52	0.60320 AU		14861 Oct 25 15:57	0° ♄	
opposition	14856 Aug 14 09:18	7° ♄ 09'23	-0°42'44		14861 Dec 03 18:07	0° ♄	
greatest brilliancy	14856 Aug 14 05:15	7° ♄ 13'21	-1.7m				
	14856 Sep 05 23:13	30° ♄		conjunction	14861 Dec 14 08:23	7° ♄ 55'39	0°52'59
direct	14856 Sep 21 05:50	28° ♄ 29'35		minimum elong	14861 Dec 14 11:13	8° ♄ 00'54	0°53'58
	14856 Oct 07 13:52	0° ♄			14862 Jan 13 13:58	0° ♄	
	14856 Dec 22 23:30	0° ♄		max. Earth dist.	14862 Jan 28 08:33	10° ♄ 29'05	2.48214 AU
	14857 Feb 14 19:10	0° ♄		morning rise	14862 Feb 11 18:13	20° ♄ 31'11	
	14857 Apr 04 18:20	0° ♄			14862 Feb 25 14:48	0° ♄	
	14857 May 20 13:00	0° ♄		desc. node	14862 Mar 20 07:58	15° ♄ 11'10	
evening set	14857 Jun 02 05:10	8° ♄ 38'29			14862 Apr 12 03:23	0° ♄	
max. Earth dist.	14857 Jun 16 13:27	18° ♄ 36'01	2.49722 AU		14862 May 30 15:13	0° ♄	
	14857 Jul 02 15:45	0° ♄			14862 Jul 23 02:33	0° ♄	
				retrograde	14862 Oct 19 21:19	29° ♄ 32'34	
conjunction	14857 Jul 24 05:18	15° ♄ 38'24	-0°15'49	opposition	14862 Nov 27 05:12	20° ♄ 56'58	-4°44'18
minimum elong	14857 Jul 24 06:19	15° ♄ 40'16	0°16'35	greatest brilliancy	14862 Nov 28 05:03	20° ♄ 34'05	-1.5m
	14857 Aug 12 13:06	0° ♄		min. Earth dist.	14862 Dec 03 01:09	18° ♄ 42'53	0.61690 AU
asc. node	14857 Aug 16 12:44	2° ♄ 59'53		direct	14863 Jan 07 05:15	11° ♄ 01'45	
	14857 Sep 20 18:17	0° ♄			14863 Mar 10 18:44	0° ♄	
morning rise	14857 Sep 23 12:03	2° ♄ 07'56		asc. node	14863 Apr 08 10:25	16° ♄ 15'47	
	14857 Oct 29 00:00	0° ♄			14863 Apr 29 18:45	0° ♄	
	14857 Dec 06 02:24	0° ♄			14863 Jun 11 01:39	0° ♄	
	14858 Jan 14 00:02	0° ♄			14863 Jul 20 09:23	0° ♄	
	14858 Feb 23 18:23	0° ♄			14863 Aug 27 15:56	0° ♄	

	14863 Oct 05 04:03	0°♊	morning rise	14868 Jun 01 22:29	8°♊46'40	
	14863 Nov 13 20:16	0°♋		14868 Jul 04 14:36	0°♌	
evening set	14863 Dec 13 11:21	21°♋35'03		14868 Aug 18 19:51	0°♍	
	14863 Dec 25 07:18	0°♌		14868 Oct 01 19:46	0°♎	
desc. node	14864 Feb 04 19:41	28°♌39'08		14868 Nov 13 17:10	0°♏	
			asc. node	14868 Nov 29 03:16	10°♏55'01	
conjunction	14864 Feb 05 22:00	29°♌23'30 -0°00'40		14868 Dec 26 02:11	0°♐	
minimum elong	14864 Feb 05 22:02	29°♌23'33 0°00'04		14869 Feb 07 21:48	0°♑	
behind sun begin	14864 Feb 05 01:52	28°♌49'34		14869 Apr 04 12:33	0°♋	
behind sun end	14864 Feb 06 18:12	29°♌57'30	retrograde	14869 May 03 10:17	5°♋37'51	
	14864 Feb 06 19:41	0°♌	min. Earth dist.	14869 May 29 17:49	0°♋54'07	0.42193 AU
max. Earth dist.	14864 Feb 29 17:30	15°♌15'35 2.60203 AU		14869 Jun 01 13:34	30°♌♊	
	14864 Mar 23 07:44	0°♍	greatest brilliancy	14869 Jun 05 06:56	28°♌47'03	-2.6m
morning rise	14864 Mar 25 07:19	1°♍16'48	opposition	14869 Jun 06 18:43	28°♌17'51	5°41'03
	14864 May 09 14:37	0°♎	direct	14869 Jul 08 03:55	22°♌16'44	
	14864 Jun 27 16:27	0°♏		14869 Aug 14 15:27	0°♐	
	14864 Aug 18 13:38	0°♑	desc. node	14869 Sep 26 22:05	19°♐54'38	
	14864 Oct 18 12:06	0°♒		14869 Oct 15 13:23	0°♑	
retrograde	14864 Dec 06 17:27	11°♒32'11		14869 Dec 06 10:51	0°♒	
opposition	14865 Jan 10 09:31	4°♒28'19 -2°28'10		14870 Jan 25 06:21	0°♓	
greatest brilliancy	14865 Jan 11 07:14	4°♒09'14 -2.2m		14870 Mar 14 21:38	0°♈	
min. Earth dist.	14865 Jan 19 01:47	1°♒26'25 0.49240 AU	evening set	14870 Apr 11 00:07	17°♈04'07	
	14865 Jan 23 11:50	30°♒♑		14870 May 01 05:15	0°♉	
direct	14865 Feb 17 05:57	25°♑48'58	max. Earth dist.	14870 May 07 22:14	4°♉20'05	2.64125 AU
asc. node	14865 Feb 23 19:32	26°♑06'53				
	14865 Mar 14 15:47	0°♒	conjunction	14870 May 25 06:44	15°♉39'19 -1°08'57	
	14865 May 12 02:36	0°♓	minimum elong	14870 May 25 07:27	15°♉40'30 1°09'53	
	14865 Jun 23 23:56	0°♏		14870 Jun 15 21:50	0°♌	
	14865 Aug 03 01:20	0°♐	morning rise	14870 Jul 10 03:22	16°♌24'24	
	14865 Sep 11 22:21	0°♑		14870 Jul 29 19:16	0°♍	
	14865 Oct 22 21:24	0°♒		14870 Sep 09 21:38	0°♎	
	14865 Dec 04 13:03	0°♓	asc. node	14870 Oct 16 20:15	27°♎18'13	
desc. node	14865 Dec 22 11:57	12°♓15'06		14870 Oct 20 10:24	0°♏	
	14866 Jan 18 00:36	0°♈		14870 Nov 28 21:05	0°♐	
evening set	14866 Jan 28 23:33	7°♈13'22		14871 Jan 07 02:09	0°♑	
	14866 Mar 05 01:23	0°♉		14871 Feb 16 11:15	0°♒	
				14871 Apr 01 20:40	0°♓	
conjunction	14866 Mar 16 18:35	7°♉30'48 -0°45'04		14871 Jun 09 05:53	0°♈	
minimum elong	14866 Mar 16 17:21	7°♉28'49 0°45'05	retrograde	14871 Jun 21 03:01	0°♈57'57	
max. Earth dist.	14866 Mar 24 23:43	12°♉45'37 2.67024 AU		14871 Jul 02 15:19	30°♈♉	
	14866 Apr 21 03:18	0°♊	min. Earth dist.	14871 Jul 23 07:38	23°♉59'38	0.55851 AU
morning rise	14866 Apr 29 16:20	5°♊24'03	opposition	14871 Jul 30 06:02	21°♉19'21	0°44'44
	14866 Jun 07 17:56	0°♋	greatest brilliancy	14871 Jul 30 01:29	21°♉23'43	-1.9m
	14866 Jul 25 14:34	0°♌	desc. node	14871 Aug 15 07:39	15°♉54'16	
	14866 Sep 11 20:26	0°♍	direct	14871 Sep 04 15:02	13°♉11'38	
	14866 Oct 31 09:36	0°♎		14871 Nov 05 10:38	0°♊	
	14866 Dec 25 20:34	0°♏		14872 Jan 03 01:58	0°♋	
asc. node	14867 Jan 12 02:14	7°♏16'42		14872 Feb 23 14:16	0°♌	
retrograde	14867 Feb 17 21:01	14°♏54'17		14872 Apr 11 20:26	0°♍	
opposition	14867 Mar 19 13:16	9°♏58'48 4°43'22	evening set	14872 May 17 00:36	22°♍18'30	
greatest brilliancy	14867 Mar 19 23:42	9°♏51'44 -3.0m		14872 May 27 11:45	0°♎	
min. Earth dist.	14867 Mar 22 18:30	9°♏06'31 0.37088 AU	max. Earth dist.	14872 Jun 03 03:36	4°♎31'01	2.54664 AU
direct	14867 Apr 18 23:01	4°♏40'48				
	14867 Jun 27 18:53	0°♐	conjunction	14872 Jul 04 14:36	26°♎21'25 -0°37'51	
	14867 Aug 14 08:52	0°♑	minimum elong	14872 Jul 04 16:16	26°♎24'21 0°38'47	
	14867 Sep 28 12:48	0°♒		14872 Jul 09 17:47	0°♓	
desc. node	14867 Nov 09 13:22	27°♒44'05		14872 Aug 19 21:15	0°♈	
	14867 Nov 13 00:31	0°♓	morning rise	14872 Aug 28 10:57	6°♈25'06	
	14867 Dec 29 10:40	0°♈	asc. node	14872 Sep 02 07:59	10°♈05'39	
	14868 Feb 14 15:34	0°♉		14872 Sep 28 09:07	0°♊	
evening set	14868 Mar 06 21:58	13°♉26'07		14872 Nov 05 20:26	0°♋	
	14868 Apr 02 03:08	0°♊		14872 Dec 14 02:47	0°♌	
max. Earth dist.	14868 Apr 15 02:55	8°♊13'46 2.68313 AU		14873 Jan 22 04:04	0°♍	
				14873 Mar 04 06:00	0°♎	
conjunction	14868 Apr 19 19:58	11°♊13'05 -1°09'11		14873 Apr 18 09:56	0°♏	
minimum elong	14868 Apr 19 19:16	11°♊11'59 1°09'45		14873 Jun 14 06:41	0°♐	
	14868 May 19 06:46	0°♋	desc. node	14873 Jul 02 14:02	6°♐15'19	

retrograde	14873 Jul 27 10:10	9°Υ51'15			14878 Jul 28 17:38	0°♄	
min. Earth dist.	14873 Sep 02 16:57	1°Υ12'10	0.65479 AU		14878 Sep 04 18:51	0°♍	
	14873 Sep 05 17:45	30°κκ			14878 Oct 13 01:01	0°♎	
opposition	14873 Sep 06 02:32	29°κ51'17	-2°29'18	evening set	14878 Nov 19 18:05	28°♏45'22	
greatest brilliancy	14873 Sep 05 17:57	29°κ59'48	-1.4m		14878 Nov 21 10:02	0°♐	
direct	14873 Oct 15 18:04	20°κ34'55			14879 Jan 01 13:22	0°♑	
	14873 Nov 29 07:24	0°Υ					
	14874 Jan 31 07:32	0°♌		conjunction	14879 Jan 18 09:19	11°♑51'21	0°20'33
	14874 Mar 23 07:40	0°♍		minimum elong	14879 Jan 18 10:29	11°♑53'24	0°21'21
	14874 May 08 15:45	0°♎			14879 Feb 13 19:16	0°♏	
	14874 Jun 20 18:29	0°♏		max. Earth dist.	14879 Feb 18 20:39	3°♏24'43	2.56050 AU
evening set	14874 Jul 01 11:56	7°♏45'49		desc. node	14879 Feb 21 14:03	5°♏14'35	
max. Earth dist.	14874 Jul 17 12:13	19°♏33'23	2.41232 AU	morning rise	14879 Mar 11 01:36	16°♏51'50	
asc. node	14874 Jul 20 22:50	22°♏07'26			14879 Mar 31 05:10	0°Υ	
	14874 Jul 31 10:14	0°♐			14879 May 17 18:46	0°♌	
					14879 Jul 06 22:51	0°♍	
conjunction	14874 Aug 30 22:07	23°♐24'53	0°28'08		14879 Aug 31 11:44	0°♎	
minimum elong	14874 Aug 30 19:40	23°♐20'06	0°27'53	retrograde	14879 Nov 16 17:34	23°♏52'20	
	14874 Sep 08 08:40	0°♄		opposition	14879 Dec 23 01:47	16°♏05'49	-3°46'19
	14874 Oct 16 08:55	0°♍		greatest brilliancy	14879 Dec 24 05:35	15°♏40'09	-1.9m
morning rise	14874 Nov 11 13:47	20°♍44'49		min. Earth dist.	14879 Dec 30 22:28	13°♏12'22	0.54675 AU
	14874 Nov 23 07:53	0°♎		direct	14880 Jan 31 14:04	6°♏43'07	
	14875 Jan 01 03:11	0°♐		asc. node	14880 Mar 12 06:39	16°♏16'37	
	14875 Feb 10 16:07	0°♑			14880 Apr 08 13:13	0°♏	
	14875 Mar 25 21:35	0°♏			14880 May 24 20:21	0°♐	
	14875 May 12 08:07	0°Υ			14880 Jul 04 12:42	0°♄	
desc. node	14875 May 20 12:02	4°Υ46'36			14880 Aug 12 13:37	0°♍	
	14875 Jul 08 20:29	0°♌			14880 Sep 20 17:01	0°♎	
retrograde	14875 Aug 30 12:23	13°♌02'37			14880 Oct 31 00:26	0°♏	
opposition	14875 Oct 10 03:09	3°♌21'51	-4°17'35		14880 Dec 12 02:07	0°♑	
greatest brilliancy	14875 Oct 10 03:27	3°♌21'33	-1.2m	desc. node	14881 Jan 08 05:10	18°♑38'38	
min. Earth dist.	14875 Oct 10 13:57	3°♌11'11	0.68650 AU	evening set	14881 Jan 12 02:22	21°♑16'21	
	14875 Oct 18 20:19	30°κΥ			14881 Jan 25 02:18	0°♏	
direct	14875 Nov 20 10:20	23°Υ29'37					
	14875 Dec 26 07:18	0°♌		conjunction	14881 Mar 02 03:39	23°♏43'37	-0°30'01
	14876 Feb 28 11:03	0°♍		minimum elong	14881 Mar 02 02:37	23°♏41'56	0°29'48
	14876 Apr 17 08:59	0°♎			14881 Mar 11 20:11	0°Υ	
	14876 May 31 02:19	0°♏		max. Earth dist.	14881 Mar 15 22:51	2°Υ39'02	2.64990 AU
asc. node	14876 Jun 06 19:36	4°♏50'09		morning rise	14881 Apr 16 07:27	22°Υ40'17	
	14876 Jul 10 17:07	0°♐			14881 Apr 27 21:47	0°♌	
	14876 Aug 18 10:31	0°♄			14881 Jun 14 21:57	0°♍	
evening set	14876 Sep 04 10:53	13°♄26'49			14881 Aug 02 20:27	0°♎	
	14876 Sep 25 07:04	0°♍			14881 Sep 22 13:35	0°♏	
	14876 Nov 02 05:55	0°♎			14881 Nov 18 07:45	0°♐	
				retrograde	14882 Jan 16 21:17	16°♐34'52	
conjunction	14876 Nov 16 17:02	11°♏15'55	1°05'50	asc. node	14882 Jan 28 15:56	15°♐41'14	
minimum elong	14876 Nov 16 18:27	11°♏18'41	1°06'45	opposition	14882 Feb 17 04:06	10°♐55'44	1°20'51
	14876 Dec 11 04:19	0°♐		greatest brilliancy	14882 Feb 17 12:44	10°♐49'10	-2.7m
max. Earth dist.	14877 Jan 08 16:44	21°♐12'12	2.42501 AU	min. Earth dist.	14882 Feb 24 12:00	8°♐42'15	0.40718 AU
	14877 Jan 20 19:58	0°♑		direct	14882 Mar 22 21:09	4°♐13'55	
morning rise	14877 Jan 22 00:01	0°♑50'26			14882 May 30 22:56	0°♄	
	14877 Mar 04 18:27	0°♏			14882 Jul 15 05:45	0°♍	
desc. node	14877 Apr 06 01:53	21°♏24'45			14882 Aug 26 16:57	0°♎	
	14877 Apr 19 11:37	0°Υ			14882 Oct 08 10:50	0°♏	
	14877 Jun 07 23:17	0°♌			14882 Nov 21 11:04	0°♑	
	14877 Aug 04 19:55	0°♍		desc. node	14882 Nov 26 01:53	3°♑05'26	
retrograde	14877 Oct 04 08:29	15°♍59'11			14883 Jan 05 22:19	0°♏	
opposition	14877 Nov 12 14:36	7°♍00'01	-4°53'51	evening set	14883 Feb 21 18:38	0°Υ07'56	
greatest brilliancy	14877 Nov 13 08:07	6°♍42'59	-1.4m		14883 Feb 21 13:39	0°Υ	
min. Earth dist.	14877 Nov 16 22:55	5°♍18'43	0.64981 AU				
	14877 Dec 02 11:46	30°κ♌		conjunction	14883 Apr 07 09:39	28°Υ28'02	-1°02'30
direct	14877 Dec 24 01:01	26°♌58'12		minimum elong	14883 Apr 07 08:36	28°Υ26'23	1°02'52
	14878 Jan 16 01:55	0°♍		max. Earth dist.	14883 Apr 07 16:42	28°Υ39'13	2.68464 AU
	14878 Mar 23 17:44	0°♎			14883 Apr 09 19:42	0°♌	
asc. node	14878 Apr 24 22:32	20°♎14'17		morning rise	14883 May 20 10:32	25°♌46'46	
	14878 May 09 07:43	0°♏			14883 May 27 01:37	0°♍	
	14878 Jun 19 17:55	0°♐			14883 Jul 12 20:25	0°♎	

	14883 Aug 27 22:33	0°♊		greatest brilliancy	14888 Aug 22 15:51	16°♋09'13	-1.6m
	14883 Oct 12 07:23	0°♐		direct	14888 Sep 30 12:59	7°♋07'44	
	14883 Nov 26 07:05	0°♌			14888 Dec 15 04:30	0°♐	
asc. node	14883 Dec 16 19:06	13°♌33'24			14889 Feb 09 05:25	0°♋	
	14884 Jan 11 09:03	0°♌			14889 Mar 30 19:51	0°♌	
	14884 Mar 08 01:13	0°♈			14889 May 15 19:18	0°♎	
retrograde	14884 Apr 07 15:59	6°♈06'48		evening set	14889 Jun 12 03:09	18°♎47'52	
min. Earth dist.	14884 May 03 18:28	1°♈50'30	0.37914 AU	max. Earth dist.	14889 Jun 25 21:30	28°♎32'14	2.46780 AU
greatest brilliancy	14884 May 07 21:10	0°♈40'08	-2.9m		14889 Jun 27 22:36	0°♊	
opposition	14884 May 09 02:55	0°♈18'50	7°04'24				
	14884 May 10 05:22	30°♌		conjunction	14889 Aug 05 15:16	28°♊23'50	-0°00'48
direct	14884 Jun 07 13:41	25°♌13'05		minimum elong	14889 Aug 05 15:23	28°♊24'02	0°01'24
	14884 Jul 05 18:26	0°♈		behind sun begin	14889 Aug 04 14:34	27°♊37'30	
	14884 Sep 06 18:12	0°♎		behind sun end	14889 Aug 06 16:12	29°♊10'37	
desc. node	14884 Oct 13 08:01	21°♎32'40		asc. node	14889 Aug 06 17:58	29°♊13'57	
	14884 Oct 27 06:56	0°♐			14889 Aug 07 18:27	0°♐	
	14884 Dec 15 04:09	0°♋			14889 Sep 15 21:33	0°♌	
	14885 Feb 01 16:28	0°♐		morning rise	14889 Oct 10 03:18	19°♌00'32	
	14885 Mar 21 18:15	0°♋			14889 Oct 24 01:23	0°♌	
evening set	14885 Mar 28 08:53	4°♋09'46			14889 Dec 01 02:04	0°♈	
max. Earth dist.	14885 Apr 28 16:14	24°♋02'48	2.66414 AU		14890 Jan 08 21:45	0°♎	
	14885 May 07 22:48	0°♌			14890 Feb 18 12:16	0°♐	
					14890 Apr 03 02:47	0°♋	
conjunction	14885 May 11 02:57	2°♌02'41	-1°12'17		14890 May 22 04:56	0°♐	
minimum elong	14885 May 11 03:04	2°♌02'53	1°13'07	desc. node	14890 Jun 06 03:08	7°♐59'49	
	14885 Jun 22 19:52	0°♎			14890 Aug 07 00:56	0°♋	
morning rise	14885 Jun 24 09:28	1°♎02'32		retrograde	14890 Aug 17 07:30	0°♋38'09	
	14885 Aug 06 03:26	0°♊			14890 Aug 27 04:48	30°♌	
	14885 Sep 17 19:48	0°♐		min. Earth dist.	14890 Sep 26 00:57	21°♐12'29	0.68211 AU
	14885 Oct 29 00:36	0°♌		opposition	14890 Sep 27 02:47	20°♐46'53	-3°44'26
asc. node	14885 Nov 02 14:52	3°♌24'07		greatest brilliancy	14890 Sep 26 21:58	20°♐51'39	-1.3m
	14885 Dec 08 04:30	0°♌		direct	14890 Nov 06 22:59	11°♐05'39	
	14886 Jan 17 06:24	0°♈			14891 Jan 12 21:14	0°♋	
	14886 Feb 28 05:42	0°♎			14891 Mar 09 16:29	0°♌	
	14886 Apr 19 12:52	0°♐			14891 Apr 26 05:44	0°♎	
retrograde	14886 Jun 04 05:11	12°♐28'32			14891 Jun 08 15:02	0°♊	
min. Earth dist.	14886 Jul 04 01:12	6°♐20'32	0.50672 AU	asc. node	14891 Jun 24 10:49	11°♊29'37	
greatest brilliancy	14886 Jul 11 07:15	3°♐39'13	-2.1m		14891 Jul 19 05:15	0°♐	
opposition	14886 Jul 12 00:15	3°♐23'25	2°30'42	evening set	14891 Aug 07 12:28	14°♐47'55	
	14886 Jul 21 18:48	30°♌			14891 Aug 27 00:01	0°♌	
direct	14886 Aug 15 14:43	25°♌56'54			14891 Oct 03 21:31	0°♌	
desc. node	14886 Aug 31 18:30	27°♌29'38					
	14886 Sep 11 14:39	0°♐		conjunction	14891 Oct 17 08:24	10°♌41'01	1°03'38
	14886 Nov 19 09:45	0°♋		minimum elong	14891 Oct 17 05:44	10°♌35'42	1°04'11
	14887 Jan 11 22:24	0°♐			14891 Nov 10 19:44	0°♈	
	14887 Mar 02 23:58	0°♋		max. Earth dist.	14891 Dec 01 17:00	16°♈15'38	2.37161 AU
	14887 Apr 19 18:52	0°♌			14891 Dec 19 15:51	0°♎	
evening set	14887 May 03 00:40	8°♌33'47		morning rise	14891 Dec 29 03:55	7°♎09'55	
max. Earth dist.	14887 May 23 16:35	22°♌09'32	2.58982 AU		14892 Jan 29 04:51	0°♐	
	14887 Jun 04 09:38	0°♎			14892 Mar 12 03:03	0°♋	
				desc. node	14892 Apr 22 21:29	27°♋17'34	
conjunction	14887 Jun 18 06:50	9°♎25'28	-0°54'11		14892 Apr 27 05:08	0°♐	
minimum elong	14887 Jun 18 08:22	9°♎28'04	0°55'10		14892 Jun 17 08:00	0°♋	
	14887 Jul 17 20:48	0°♊			14892 Aug 26 19:30	0°♌	
morning rise	14887 Aug 07 12:18	14°♊46'09		retrograde	14892 Sep 19 21:22	3°♌06'55	
	14887 Aug 28 08:02	0°♐			14892 Oct 12 02:39	30°♌	
asc. node	14887 Sep 20 05:27	17°♐06'49		opposition	14892 Oct 29 20:16	23°♋48'33	-4°49'05
	14887 Oct 07 03:59	0°♌		greatest brilliancy	14892 Oct 30 06:45	23°♋38'17	-1.3m
	14887 Nov 14 22:19	0°♌		min. Earth dist.	14892 Nov 01 15:51	22°♋42'21	0.67233 AU
	14887 Dec 23 10:21	0°♈		direct	14892 Dec 10 10:15	13°♋46'48	
	14888 Jan 31 18:09	0°♎			14893 Feb 07 18:15	0°♌	
	14888 Mar 13 10:52	0°♐			14893 Apr 02 23:06	0°♎	
	14888 Apr 29 19:53	0°♋		asc. node	14893 May 11 12:11	25°♎29'53	
retrograde	14888 Jul 13 15:10	26°♋01'09			14893 May 17 22:36	0°♊	
desc. node	14888 Jul 19 01:46	25°♋48'53			14893 Jun 27 21:44	0°♐	
min. Earth dist.	14888 Aug 18 02:06	17°♋57'28	0.62441 AU		14893 Aug 05 17:13	0°♌	
opposition	14888 Aug 22 22:55	16°♋02'15	-1°26'20		14893 Sep 12 15:21	0°♌	

	14893 Oct 20 17:28	0°♂			14898 Jun 02 22:48	0°♂	
evening set	14893 Oct 23 01:12	1°♂48'32			14898 Jul 20 08:54	0°♂	
	14893 Nov 28 21:04	0°♂			14898 Sep 05 16:33	0°♂	
conjunction	14893 Dec 28 00:34	21°♂31'57 0°41'58			14898 Oct 23 06:11	0°♂	
minimum elong	14893 Dec 28 03:02	21°♂36'26 0°42'55	asc. node		14899 Jan 02 11:08	12°♂07'47	
	14894 Jan 08 18:33	0°♂			14899 Feb 13 14:02	0°♂	
max. Earth dist.	14894 Feb 05 23:58	19°♂50'44 2.51195 AU	retrograde		14899 Mar 08 20:31	3°♂22'07	
	14894 Feb 20 19:53	0°♂			14899 Apr 01 10:28	30°♂♂	
morning rise	14894 Feb 22 05:53	0°♂57'37	opposition		14899 Apr 07 06:34	28°♂29'30 6°17'54	
desc. node	14894 Mar 10 09:26	11°♂47'32	greatest brilliancy		14899 Apr 07 04:40	28°♂30'45 -3.0m	
	14894 Apr 07 05:58	0°♂	min. Earth dist.		14899 Apr 07 07:40	28°♂28'46 0.36360 AU	
	14894 May 25 06:48	0°♂	direct		14899 May 06 13:14	23°♂37'17	
	14894 Jul 16 03:51	0°♂			14899 Jun 07 15:41	0°♂	
retrograde	14894 Sep 18 02:24	0°♂			14899 Aug 04 16:23	0°♂	
opposition	14894 Oct 29 09:55	8°♂17'37			14899 Sep 21 09:45	0°♂	
	14894 Dec 06 02:51	29°♂57'26 -4°29'58	desc. node		14899 Oct 30 18:52	25°♂17'43	
	14894 Dec 06 00:08	30°♂♂			14899 Nov 07 03:03	0°♂	
greatest brilliancy	14894 Dec 07 05:10	29°♂32'26 -1.6m			14899 Dec 24 05:45	0°♂	
min. Earth dist.	14894 Dec 12 17:14	27°♂27'24 0.59443 AU			14900 Feb 09 20:09	0°♂	
direct	14895 Jan 15 17:02	20°♂10'16	evening set		14900 Mar 15 18:45	21°♂20'53	
	14895 Feb 27 01:10	0°♂			14900 Mar 29 12:02	0°♂	
asc. node	14895 Mar 29 18:55	15°♂18'56	max. Earth dist.		14900 Apr 21 01:21	14°♂17'21 2.67877 AU	
	14895 Apr 22 21:35	0°♂					
	14895 Jun 05 03:53	0°♂	conjunction		14900 Apr 28 11:56	19°♂01'32 -1°11'27	
	14895 Jul 14 20:31	0°♂	minimum elong		14900 Apr 28 11:31	19°♂00'52 1°12'08	
	14895 Aug 22 08:13	0°♂			14900 May 15 15:37	0°♂	
	14895 Sep 30 00:21	0°♂	morning rise		14900 Jun 10 20:24	16°♂55'59	
	14895 Nov 08 20:23	0°♂			14900 Jun 30 19:30	0°♂	
	14895 Dec 20 11:08	0°♂			14900 Aug 14 16:30	0°♂	
evening set	14895 Dec 25 06:23	3°♂22'19			14900 Sep 27 04:05	0°♂	
desc. node	14896 Jan 25 21:58	25°♂09'28			14900 Nov 08 08:21	0°♂	
	14896 Feb 02 02:13	0°♂	asc. node		14900 Nov 20 09:53	8°♂42'56	
					14900 Dec 19 16:46	0°♂	
conjunction	14896 Feb 15 11:18	8°♂56'10 -0°12'10			14901 Jan 30 12:31	0°♂	
minimum elong	14896 Feb 15 10:48	8°♂55'19 0°11'42			14901 Mar 17 20:52	0°♂	
behind sun begin	14896 Feb 14 20:42	8°♂31'55	retrograde		14901 May 16 20:49	20°♂28'50	
behind sun end	14896 Feb 16 00:54	9°♂18'42	min. Earth dist.		14901 Jun 13 06:34	15°♂16'19 0.45104 AU	
max. Earth dist.	14896 Mar 06 13:50	22°♂10'07 2.62130 AU	greatest brilliancy		14901 Jun 20 08:40	12°♂49'58 -2.4m	
	14896 Mar 18 15:11	0°♂	opposition		14901 Jun 21 15:17	12°♂23'23 4°32'26	
morning rise	14896 Apr 02 11:47	9°♂33'24	direct		14901 Jul 24 05:34	5°♂49'25	
	14896 May 04 18:48	0°♂	desc. node		14901 Sep 18 03:49	20°♂52'55	
	14896 Jun 22 09:01	0°♂			14901 Oct 07 06:39	0°♂	
	14896 Aug 11 21:45	0°♂			14901 Dec 01 04:03	0°♂	
	14896 Oct 06 05:37	0°♂			14902 Jan 21 00:38	0°♂	
retrograde	14896 Dec 20 06:46	23°♂23'49			14902 Mar 11 02:42	0°♂	
opposition	14897 Jan 22 19:55	16°♂48'35 -1°21'23	evening set		14902 Apr 19 21:18	25°♂03'37	
greatest brilliancy	14897 Jan 23 08:45	16°♂37'47 -2.4m			14902 Apr 27 14:04	0°♂	
min. Earth dist.	14897 Jan 31 13:33	13°♂53'02 0.46058 AU	max. Earth dist.		14902 May 14 10:29	10°♂55'29 2.62511 AU	
asc. node	14897 Feb 14 03:37	10°♂11'34					
direct	14897 Feb 28 10:41	8°♂44'35	conjunction		14902 Jun 03 16:25	24°♂16'16 -1°04'59	
	14897 May 01 11:13	0°♂	minimum elong		14902 Jun 03 17:28	24°♂18'01 1°05'57	
	14897 Jun 16 08:23	0°♂			14902 Jun 12 06:11	0°♂	
	14897 Jul 27 11:22	0°♂	morning rise		14902 Jul 20 18:50	26°♂21'11	
	14897 Sep 05 23:38	0°♂			14902 Jul 25 24:00	0°♂	
	14897 Oct 17 09:57	0°♂			14902 Sep 05 21:00	0°♂	
	14897 Nov 29 10:41	0°♂	asc. node		14902 Oct 08 00:27	23°♂51'52	
desc. node	14897 Dec 12 16:51	9°♂00'18			14902 Oct 16 03:28	0°♂	
	14898 Jan 13 04:47	0°♂			14902 Nov 24 07:48	0°♂	
evening set	14898 Feb 06 21:21	16°♂07'47			14903 Jan 02 05:25	0°♂	
	14898 Feb 28 09:34	0°♂			14903 Feb 11 02:00	0°♂	
					14903 Mar 26 01:08	0°♂	
conjunction	14898 Mar 24 17:41	15°♂32'53 -0°52'26			14903 May 18 07:41	0°♂	
minimum elong	14898 Mar 24 16:27	15°♂30'55 0°52'36	retrograde		14903 Jun 30 23:06	10°♂50'15	
max. Earth dist.	14898 Mar 30 01:25	18°♂56'00 2.67775 AU	min. Earth dist.		14903 Aug 03 08:57	3°♂27'25 0.58416 AU	
	14898 Apr 16 12:05	0°♂	desc. node		14903 Aug 06 14:04	2°♂12'30	
morning rise	14898 May 07 04:36	13°♂05'25	opposition		14903 Aug 09 15:03	1°♂01'13 -0°08'10	

greatest brilliancy	14903 Mar 06 12:24	16° Z 47'04	0.3m	conjunction	14908 Dec 03 19:16	27° X 19'33	0°59'52
	14903 Aug 12 06:33	30° R \approx		minimum elong	14908 Dec 03 21:56	27° X 24'36	1°00'50
direct	14903 Sep 15 20:55	22° \approx 34'55			14908 Dec 07 08:06	0° Z	
	14903 Oct 24 08:16	0° X			14909 Jan 17 00:47	0° \approx	
	14903 Dec 28 13:58	0° Y		max. Earth dist.	14909 Jan 21 18:16	3° \approx 23'16	2.45693 AU
	14904 Feb 19 08:36	0° B		morning rise	14909 Feb 04 02:56	12° \approx 51'07	
	14904 Apr 08 01:11	0° II			14909 Feb 28 22:48	0° X	
	14904 May 23 19:40	0° E		desc. node	14909 Mar 28 04:45	18° X 10'47	
evening set	14904 May 27 00:42	2° E 10'16			14909 Apr 15 11:20	0° Y	
max. Earth dist.	14904 Jun 11 12:21	12° E 46'16	2.52011 AU		14909 Jun 03 05:58	0° B	
	14904 Jul 06 01:06	0° Q			14909 Jul 28 01:10	0° II	
				retrograde	14909 Oct 14 00:18	24° II 06'50	
conjunction	14904 Jul 16 08:12	7° Q 23'19	-0°25'56	opposition	14909 Nov 21 19:06	15° II 19'53	-4°50'12
minimum elong	14904 Jul 16 09:36	7° Q 25'51	0°26'46	greatest brilliancy	14909 Nov 22 16:14	14° II 59'28	-1.5m
	14904 Aug 16 02:10	0° P		min. Earth dist.	14909 Nov 26 23:10	13° II 20'14	0.63287 AU
asc. node	14904 Aug 24 13:26	6° P 21'51		direct	14910 Jan 02 00:57	5° II 20'48	
morning rise	14904 Sep 12 12:26	20° P 47'43			14910 Mar 16 23:57	0° E	
	14904 Sep 24 10:51	0° L		asc. node	14910 Apr 16 07:31	18° E 06'01	
	14904 Nov 01 19:16	0° M			14910 May 04 08:12	0° Q	
	14904 Dec 09 23:02	0° X			14910 Jun 15 06:25	0° P	
	14905 Jan 17 21:07	0° Z			14910 Jul 24 10:44	0° L	
	14905 Feb 27 16:47	0° \approx			14910 Aug 31 14:43	0° M	
	14905 Apr 13 01:16	0° X			14910 Oct 08 23:29	0° X	
	14905 Jun 04 12:32	0° Y			14910 Nov 17 11:19	0° Z	
desc. node	14905 Jun 23 18:42	8° Y 31'24		evening set	14910 Dec 04 15:17	12° Z 39'13	
retrograde	14905 Aug 05 02:03	17° Y 52'58			14910 Dec 28 17:40	0° \approx	
min. Earth dist.	14905 Sep 12 07:00	8° Y 56'26	0.66736 AU				
opposition	14905 Sep 14 21:03	7° Y 54'56	-3°00'29	conjunction	14911 Jan 30 04:42	22° \approx 36'23	0°08'09
greatest brilliancy	14905 Sep 14 13:03	8° Y 02'53	-1.3m	minimum elong	14911 Jan 30 05:08	22° \approx 37'08	0°08'50
	14905 Oct 09 10:47	30° R X		behind sun begin	14911 Jan 29 10:36	22° \approx 05'28	
direct	14905 Oct 25 00:32	28° X 28'38		behind sun end	14911 Jan 30 23:40	23° \approx 08'47	
	14905 Nov 10 13:55	0° Y			14911 Feb 10 01:42	0° X	
	14906 Jan 25 16:28	0° B		desc. node	14911 Feb 12 16:16	1° X 45'35	
	14906 Mar 19 00:27	0° II		max. Earth dist.	14911 Feb 26 07:45	10° X 53'25	2.58457 AU
	14906 May 04 18:15	0° E		morning rise	14911 Mar 20 21:30	25° X 43'54	
	14906 Jun 16 23:41	0° Q			14911 Mar 27 11:28	0° Y	
asc. node	14906 Jul 12 04:42	18° Q 24'54			14911 May 13 19:41	0° B	
evening set	14906 Jul 14 18:09	20° Q 19'12			14911 Jul 02 06:28	0° II	
	14906 Jul 27 15:27	0° P			14911 Aug 24 08:52	0° E	
max. Earth dist.	14906 Aug 05 23:27	7° P 06'05	2.38392 AU		14911 Nov 01 15:24	0° Q	
	14906 Sep 04 12:48	0° L		retrograde	14911 Nov 29 03:47	4° Q 03'41	
					14911 Dec 24 17:43	30° R E	
conjunction	14906 Sep 17 00:28	9° L 49'04	0°43'56	opposition	14912 Jan 03 15:22	26° E 39'22	-3°06'13
minimum elong	14906 Sep 16 20:44	9° L 41'42	0°43'57	greatest brilliancy	14912 Jan 04 16:48	26° E 16'27	-2.0m
	14906 Oct 12 12:02	0° M		min. Earth dist.	14912 Jan 12 01:27	23° E 38'20	0.51741 AU
	14906 Nov 19 10:16	0° X		direct	14912 Feb 11 08:19	17° E 37'47	
morning rise	14906 Nov 30 15:50	8° X 47'23		asc. node	14912 Mar 03 16:54	20° E 35'12	
	14906 Dec 28 04:51	0° Z			14912 Mar 28 17:11	0° Q	
	14907 Feb 06 16:26	0° \approx			14912 May 18 10:05	0° P	
	14907 Mar 21 17:02	0° X			14912 Jun 29 03:52	0° L	
	14907 May 07 11:02	0° Y			14912 Aug 07 16:34	0° M	
desc. node	14907 May 11 14:33	2° Y 30'30			14912 Sep 16 04:10	0° X	
	14907 Jun 30 13:36	0° B			14912 Oct 26 18:23	0° Z	
retrograde	14907 Sep 08 03:52	20° B 37'33			14912 Dec 08 02:12	0° \approx	
opposition	14907 Oct 18 14:26	11° B 03'49	-4°32'30	desc. node	14912 Dec 30 07:04	15° \approx 13'23	
greatest brilliancy	14907 Oct 18 18:08	11° B 00'11	-1.2m		14913 Jan 21 07:11	0° X	
min. Earth dist.	14907 Oct 19 21:16	10° B 33'28	0.68430 AU	evening set	14913 Jan 22 22:04	1° X 04'38	
direct	14907 Nov 29 01:51	1° B 07'09			14913 Mar 08 03:54	0° Y	
	14908 Feb 22 13:49	0° II					
	14908 Apr 12 21:04	0° E		conjunction	14913 Mar 11 14:39	2° Y 13'15	-0°39'12
	14908 May 26 23:48	0° Q		minimum elong	14913 Mar 11 13:27	2° Y 11'19	0°39'08
asc. node	14908 May 29 01:36	1° Q 28'45		max. Earth dist.	14913 Mar 22 05:17	9° Y 01'49	2.66228 AU
	14908 Jul 06 17:36	0° P		morning rise	14913 Apr 24 23:53	0° B 30'03	
	14908 Aug 14 11:47	0° L			14913 Apr 24 04:51	0° B	
	14908 Sep 21 08:54	0° M			14913 Jun 10 23:03	0° II	
evening set	14908 Sep 23 02:03	1° M 21'41			14913 Jul 29 05:53	0° E	
	14908 Oct 29 08:37	0° X			14913 Sep 16 09:39	0° Q	

	14913 Nov 07 03:57	0°♈			14919 Feb 26 23:20	0°♏		
	14914 Jan 15 16:29	0°♊			14919 Apr 16 01:17	0°♊		
asc. node	14914 Jan 19 23:59	0°♊52'47		evening set	14919 May 12 10:53	17°♊09'02		
retrograde	14914 Feb 04 07:23	2°♊19'34		max. Earth dist.	14919 May 31 03:06	29°♊35'40	2.56681 AU	
	14914 Feb 23 17:51	30°♋♈			14919 May 31 17:33	0°♎		
opposition	14914 Mar 06 14:36	27°♈08'20	3°15'22					
greatest brilliancy	14914 Mar 07 04:21	26°♈58'31	-2.9m	conjunction	14919 Jun 28 21:13	19°♎17'25	-0°45'28	
min. Earth dist.	14914 Mar 11 23:57	25°♈36'24	0.38400 AU	minimum elong	14919 Jun 28 22:53	19°♎20'18	0°46'25	
direct	14914 Apr 07 09:58	21°♈15'55			14919 Jul 14 02:55	0°♏		
	14914 May 14 13:23	0°♊		morning rise	14919 Aug 20 11:10	27°♏02'43		
	14914 Jul 06 19:12	0°♌			14919 Aug 24 10:55	0°♈		
	14914 Aug 20 09:49	0°♌		asc. node	14919 Sep 11 08:48	13°♈24'53		
	14914 Oct 03 06:24	0°♎			14919 Oct 03 03:02	0°♊		
	14914 Nov 16 23:28	0°♌			14919 Nov 10 17:46	0°♌		
desc. node	14914 Nov 17 06:50	0°♌12'12			14919 Dec 19 02:24	0°♌		
	14915 Jan 01 21:37	0°♌			14920 Jan 27 05:15	0°♎		
	14915 Feb 17 19:37	0°♏			14920 Mar 08 10:51	0°♌		
evening set	14915 Mar 02 22:27	8°♏19'17			14920 Apr 23 05:22	0°♌		
	14915 Apr 06 04:20	0°♏			14920 Jun 24 17:10	0°♏		
max. Earth dist.	14915 Apr 13 16:03	4°♏44'32	2.68490 AU	desc. node	14920 Jul 10 07:34	3°♏34'32		
				retrograde	14920 Jul 22 13:17	4°♏31'34		
conjunction	14915 Apr 16 02:24	6°♏17'00	-1°06'53		14920 Aug 17 14:15	30°♋♏		
minimum elong	14915 Apr 16 01:32	6°♏15'38	1°07'23	min. Earth dist.	14920 Aug 28 01:24	26°♏08'02	0.64239 AU	
	14915 May 23 09:02	0°♊		opposition	14920 Sep 01 03:14	24°♏31'18	-2°04'57	
morning rise	14915 May 29 02:29	3°♊39'51		greatest brilliancy	14920 Aug 31 18:41	24°♏39'44	-1.5m	
	14915 Jul 08 22:01	0°♎		direct	14920 Oct 10 08:44	15°♏24'04		
	14915 Aug 23 12:22	0°♏			14920 Dec 06 21:00	0°♏		
	14915 Oct 07 02:05	0°♈			14921 Feb 04 08:51	0°♏		
	14915 Nov 19 18:34	0°♊			14921 Mar 26 19:00	0°♊		
asc. node	14915 Dec 08 02:05	12°♊39'15			14921 May 12 00:46	0°♎		
	14916 Jan 02 08:54	0°♌		evening set	14921 Jun 23 18:15	29°♎40'52		
	14916 Feb 17 22:06	0°♌			14921 Jun 24 04:57	0°♏		
retrograde	14916 Apr 23 20:27	23°♌48'26		max. Earth dist.	14921 Jul 07 22:11	9°♏55'10	2.43697 AU	
min. Earth dist.	14916 May 19 15:47	19°♌22'33	0.40046 AU	asc. node	14921 Jul 28 22:50	25°♏28'09		
greatest brilliancy	14916 May 25 09:13	17°♌37'39	-2.7m		14921 Aug 03 23:34	0°♈		
opposition	14916 May 26 21:14	17°♌09'56	6°27'21					
direct	14916 Jun 26 07:03	11°♌35'37		conjunction	14921 Aug 20 08:30	12°♈27'05	0°15'35	
	14916 Aug 27 01:18	0°♎		minimum elong	14921 Aug 20 07:14	12°♈24'40	0°15'10	
desc. node	14916 Oct 04 14:55	20°♎32'15		behind sun begin	14921 Aug 19 21:47	12°♈06'34		
	14916 Oct 21 02:03	0°♌		behind sun end	14921 Aug 20 16:41	12°♈42'46		
	14916 Dec 10 11:01	0°♏			14921 Sep 12 00:37	0°♊		
	14917 Jan 28 15:39	0°♏			14921 Oct 20 02:36	0°♌		
	14917 Mar 18 00:50	0°♏		morning rise	14921 Oct 29 03:42	7°♌09'50		
evening set	14917 Apr 06 03:29	12°♏01'41			14921 Nov 27 02:03	0°♌		
	14917 May 04 07:34	0°♊			14922 Jan 04 20:36	0°♎		
max. Earth dist.	14917 May 04 22:50	0°♊24'35	2.65255 AU		14922 Feb 14 08:41	0°♌		
					14922 Mar 29 15:33	0°♏		
conjunction	14917 May 20 02:56	10°♊13'56	-1°10'55		14922 May 16 13:10	0°♏		
minimum elong	14917 May 20 03:24	10°♊14'42	1°11'49	desc. node	14922 May 28 07:34	6°♏41'45		
	14917 Jun 19 03:03	0°♎			14922 Jul 16 13:07	0°♏		
morning rise	14917 Jul 04 04:10	10°♎06'04		retrograde	14922 Aug 25 19:49	8°♏14'44		
	14917 Aug 02 05:46	0°♏			14922 Oct 01 16:56	30°♋♏		
	14917 Sep 13 15:09	0°♈		opposition	14922 Oct 05 13:33	28°♏28'49	-4°05'15	
asc. node	14917 Oct 24 20:38	0°♊17'32		greatest brilliancy	14922 Oct 05 11:21	28°♏31'00	-1.2m	
	14917 Oct 24 11:14	0°♊		min. Earth dist.	14922 Oct 05 07:44	28°♏34'34	0.68590 AU	
	14917 Dec 03 05:12	0°♌		direct	14922 Nov 15 17:05	18°♏41'07		
	14918 Jan 11 17:48	0°♌			14923 Jan 03 21:36	0°♏		
	14918 Feb 21 14:27	0°♎			14923 Mar 04 17:17	0°♊		
	14918 Apr 08 12:11	0°♌			14923 Apr 22 02:12	0°♎		
retrograde	14918 Jun 15 00:58	23°♌48'21			14923 Jun 04 17:20	0°♏		
min. Earth dist.	14918 Jul 16 04:51	17°♌12'11	0.53604 AU	asc. node	14923 Jun 15 18:32	7°♏58'31		
opposition	14918 Jul 23 16:05	14°♌22'01	1°27'22		14923 Jul 15 09:01	0°♈		
greatest brilliancy	14918 Jul 23 06:39	14°♌30'59	-2.0m		14923 Aug 23 03:30	0°♊		
desc. node	14918 Aug 23 00:32	6°♌42'17		evening set	14923 Aug 24 06:24	0°♊52'54		
direct	14918 Aug 28 06:57	6°♌31'33			14923 Sep 30 00:26	0°♌		
	14918 Nov 12 00:31	0°♏						
	14919 Jan 07 02:28	0°♏		conjunction	14923 Nov 05 06:33	28°♌41'35	1°07'11	

minimum elong	14923 Nov 05 06:18	28° \mathbb{M} 41'04	1°07'58		14928 Dec 01 13:37	0° \mathbb{M}	
	14923 Nov 06 22:31	0° \mathbb{A}		retrograde	14929 Jan 05 04:42	6° \mathbb{M} 22'19	
	14923 Dec 15 18:51	0° \mathbb{Z}		asc. node	14929 Feb 05 13:24	0° \mathbb{M} 35'10	
max. Earth dist.	14923 Dec 29 01:29	9° \mathbb{Z} 59'16	2.39961 AU	opposition	14929 Feb 06 11:15	0° \mathbb{M} 17'48	0°03'35
morning rise	14924 Jan 13 18:00	21° \mathbb{Z} 35'15		greatest brilliancy	14930 Jan 26 21:18	11° \mathbb{K} 27'17	1.8m
	14924 Jan 25 07:52	0° \approx			14929 Feb 07 09:29	30° \mathbb{R} 0	
	14924 Mar 08 04:29	0° \mathbb{K}		min. Earth dist.	14929 Feb 14 16:54	27° \mathbb{Q} 40'12	0.42998 AU
desc. node	14924 Apr 13 22:46	24° \mathbb{K} 16'04		direct	14929 Mar 13 14:20	22° \mathbb{Q} 56'22	
	14924 Apr 22 23:01	0° \mathbb{Y}			14929 Apr 15 12:43	0° \mathbb{M}	
	14924 Jun 11 22:19	0° \mathbb{B}			14929 Jun 08 09:01	0° \mathbb{L}	
	14924 Aug 11 18:31	0° \mathbb{I}			14929 Jul 21 06:42	0° \mathbb{M}	
retrograde	14924 Sep 29 00:31	10° \mathbb{I} 54'20			14929 Aug 31 16:27	0° \mathbb{A}	
opposition	14924 Nov 07 15:00	1° \mathbb{I} 45'57	-4°53'22		14929 Oct 12 17:27	0° \mathbb{Z}	
greatest brilliancy	14924 Nov 08 05:22	1° \mathbb{I} 31'57	-1.3m		14929 Nov 25 05:03	0° \approx	
min. Earth dist.	14924 Nov 11 06:46	0° \mathbb{I} 20'26	0.66128 AU	desc. node	14929 Dec 03 20:47	5° \approx 50'21	
	14924 Nov 12 03:52	30° \mathbb{R} 8			14930 Jan 09 07:10	0° \mathbb{K}	
direct	14924 Dec 19 04:10	21° \mathbb{B} 43'38		evening set	14930 Feb 16 11:36	24° \mathbb{K} 44'06	
	14925 Jan 28 03:46	0° \mathbb{I}			14930 Feb 24 16:50	0° \mathbb{Y}	
	14925 Mar 28 13:34	0° \mathbb{G}					
asc. node	14925 May 02 20:23	22° \mathbb{G} 42'06		conjunction	14930 Apr 02 14:00	23° \mathbb{Y} 28'55	-0°58'45
	14925 May 13 10:56	0° \mathbb{Q}		minimum elong	14930 Apr 02 12:50	23° \mathbb{Y} 27'04	0°59'03
	14925 Jun 23 17:20	0° \mathbb{M}		max. Earth dist.	14930 Apr 05 01:33	25° \mathbb{Y} 03'21	2.68260 AU
	14925 Aug 01 15:38	0° \mathbb{L}			14930 Apr 12 20:41	0° \mathbb{B}	
	14925 Sep 08 15:23	0° \mathbb{M}		morning rise	14930 May 15 17:56	20° \mathbb{B} 50'17	
	14925 Oct 16 19:09	0° \mathbb{A}			14930 May 30 04:32	0° \mathbb{I}	
evening set	14925 Nov 09 02:58	17° \mathbb{A} 58'33			14930 Jul 16 05:47	0° \mathbb{G}	
	14925 Nov 25 00:33	0° \mathbb{Z}			14930 Aug 31 20:02	0° \mathbb{Q}	
	14926 Jan 04 23:47	0° \approx			14930 Oct 17 01:24	0° \mathbb{M}	
					14930 Dec 02 12:28	0° \mathbb{L}	
conjunction	14926 Jan 10 12:14	3° \approx 55'41	0°29'47	asc. node	14930 Dec 24 17:55	13° \mathbb{L} 55'37	
minimum elong	14926 Jan 10 13:59	3° \approx 58'49	0°30'39		14931 Jan 21 02:59	0° \mathbb{M}	
max. Earth dist.	14926 Feb 14 16:15	28° \approx 21'45	2.53961 AU	retrograde	14931 Mar 27 15:53	22° \mathbb{M} 20'51	
	14926 Feb 17 02:05	0° \mathbb{K}		min. Earth dist.	14931 Apr 23 19:36	17° \mathbb{M} 57'47	0.36800 AU
desc. node	14926 Mar 01 10:31	8° \mathbb{K} 19'21		opposition	14931 Apr 26 23:45	17° \mathbb{M} 05'57	7°05'16
morning rise	14926 Mar 05 01:00	10° \mathbb{K} 43'41		greatest brilliancy	14931 Apr 26 05:07	17° \mathbb{M} 18'40	-3.0m
	14926 Apr 03 10:22	0° \mathbb{Y}		direct	14931 May 26 02:17	12° \mathbb{M} 14'23	
	14926 May 21 02:49	0° \mathbb{B}			14931 Jul 23 14:16	0° \mathbb{A}	
	14926 Jul 10 20:34	0° \mathbb{I}			14931 Sep 14 09:48	0° \mathbb{Z}	
	14926 Sep 06 18:34	0° \mathbb{G}		desc. node	14931 Oct 22 01:15	23° \mathbb{Z} 13'52	
retrograde	14926 Nov 09 11:33	17° \mathbb{G} 26'00			14931 Nov 01 21:31	0° \approx	
opposition	14926 Dec 16 11:50	9° \mathbb{G} 23'23	-4°07'55		14931 Dec 19 21:20	0° \mathbb{K}	
greatest brilliancy	14926 Dec 17 15:29	8° \mathbb{G} 57'29	-1.8m		14932 Feb 05 22:56	0° \mathbb{Y}	
min. Earth dist.	14926 Dec 23 20:16	6° \mathbb{G} 38'51	0.56914 AU	evening set	14932 Mar 23 13:09	29° \mathbb{Y} 11'19	
	14927 Jan 20 03:22	30° \mathbb{R} 11			14932 Mar 24 20:04	0° \mathbb{B}	
direct	14927 Jan 25 13:43	29° \mathbb{I} 47'57		max. Earth dist.	14932 Apr 26 01:06	20° \mathbb{B} 24'37	2.67167 AU
	14927 Jan 31 02:09	0° \mathbb{G}					
asc. node	14927 Mar 21 03:53	15° \mathbb{G} 32'30		conjunction	14932 May 06 05:27	26° \mathbb{B} 55'14	-1°12'28
	14927 Apr 16 02:35	0° \mathbb{Q}		minimum elong	14932 May 06 05:20	26° \mathbb{B} 55'03	1°13'15
	14927 May 30 20:57	0° \mathbb{M}			14932 May 11 00:34	0° \mathbb{I}	
	14927 Jul 10 02:05	0° \mathbb{L}		morning rise	14932 Jun 19 00:28	25° \mathbb{I} 21'39	
	14927 Aug 17 20:22	0° \mathbb{M}			14932 Jun 26 01:10	0° \mathbb{G}	
	14927 Sep 25 17:49	0° \mathbb{A}			14932 Aug 09 15:08	0° \mathbb{Q}	
	14927 Nov 04 18:47	0° \mathbb{Z}			14932 Sep 21 16:17	0° \mathbb{M}	
	14927 Dec 16 14:04	0° \approx			14932 Nov 02 07:07	0° \mathbb{L}	
evening set	14928 Jan 06 05:24	14° \approx 18'41		asc. node	14932 Nov 10 14:38	6° \mathbb{L} 05'48	
desc. node	14928 Jan 17 01:00	21° \approx 41'20			14932 Dec 12 22:11	0° \mathbb{M}	
	14928 Jan 29 08:44	0° \mathbb{K}			14933 Jan 22 14:27	0° \mathbb{A}	
					14933 Mar 06 18:43	0° \mathbb{Z}	
conjunction	14928 Feb 25 13:21	18° \mathbb{K} 01'10	-0°22'53		14933 May 04 04:51	0° \approx	
minimum elong	14928 Feb 25 12:29	17° \mathbb{K} 59'44	0°22'34	retrograde	14933 May 28 03:12	3° \approx 53'44	
max. Earth dist.	14928 Mar 13 03:18	28° \mathbb{K} 49'08	2.63806 AU		14933 Jun 20 09:43	30° \mathbb{R} 8	
	14928 Mar 14 23:07	0° \mathbb{Y}		min. Earth dist.	14933 Jun 25 21:33	28° \mathbb{Z} 10'15	0.48195 AU
morning rise	14928 Apr 11 10:57	17° \mathbb{Y} 37'30		greatest brilliancy	14933 Jul 03 04:29	25° \mathbb{Z} 32'26	-2.3m
	14928 May 01 00:26	0° \mathbb{B}		opposition	14933 Jul 04 03:38	25° \mathbb{Z} 11'28	3°21'42
	14928 Jun 18 05:38	0° \mathbb{I}		direct	14933 Aug 06 20:35	18° \mathbb{Z} 07'05	
	14928 Aug 06 18:17	0° \mathbb{G}		desc. node	14933 Sep 08 11:34	23° \mathbb{Z} 54'45	
	14928 Sep 28 00:27	0° \mathbb{Q}			14933 Sep 25 00:21	0° \approx	

	14933 Nov 24 08:58	0°♄			14938 Oct 07 14:47	0°♄		
	14934 Jan 15 14:46	0°♄			14938 Nov 14 12:43	0°♄		
	14934 Mar 06 05:54	0°♄	morning rise		14938 Dec 17 19:18	25°♄48'28		
	14934 Apr 22 22:17	0°♄			14938 Dec 23 07:21	0°♄		
evening set	14934 Apr 27 20:38	3°♄10'33			14939 Feb 01 18:14	0°♄		
max. Earth dist.	14934 May 20 04:16	17°♄43'53	2.60663 AU		14939 Mar 16 15:31	0°♄		
	14934 Jun 07 14:42	0°♄	desc. node		14939 May 01 17:43	29°♄54'49		
					14939 May 01 21:04	0°♄		
conjunction	14934 Jun 12 09:02	3°♄12'30	-0°59'24		14939 Jun 22 20:55	0°♄		
minimum elong	14934 Jun 12 10:24	3°♄14'47	1°00'24	retrograde	14939 Sep 15 21:59	28°♄14'30		
	14934 Jul 21 05:48	0°♄		opposition	14939 Oct 26 03:07	18°♄48'43	-4°43'36	
morning rise	14934 Jul 31 01:22	6°♄56'42		greatest brilliancy	14939 Oct 26 10:28	18°♄41'29	-1.3m	
	14934 Aug 31 22:14	0°♄		min. Earth dist.	14939 Oct 28 06:09	17°♄58'37	0.67904 AU	
asc. node	14934 Sep 28 06:11	20°♄21'47		direct	14939 Dec 06 17:17	8°♄48'45		
	14934 Oct 10 23:19	0°♄			14940 Feb 14 18:52	0°♄		
	14934 Nov 18 21:57	0°♄			14940 Apr 07 03:51	0°♄		
	14934 Dec 27 13:35	0°♄	asc. node		14940 May 19 09:58	28°♄18'43		
	14935 Feb 05 01:05	0°♄			14940 May 21 19:24	0°♄		
	14935 Mar 19 02:13	0°♄			14940 Jul 01 17:16	0°♄		
	14935 May 06 23:32	0°♄			14940 Aug 09 12:44	0°♄		
retrograde	14935 Jul 09 10:22	20°♄10'49			14940 Sep 16 10:19	0°♄		
desc. node	14935 Jul 27 19:35	17°♄49'42		greatest brilliancy	14940 Sep 25 19:50	7°♄27'07	1.1m	
min. Earth dist.	14935 Aug 13 00:24	12°♄24'54	0.60765 AU	evening set	14940 Oct 10 17:19	19°♄13'29		
opposition	14935 Aug 18 12:47	10°♄15'02	-0°55'44		14940 Oct 24 10:50	0°♄		
greatest brilliancy	14935 Aug 18 07:37	10°♄20'06	-1.6m		14940 Dec 02 11:39	0°♄		
direct	14935 Sep 25 14:01	1°♄32'11						
	14935 Dec 21 09:19	0°♄		conjunction	14940 Dec 18 13:08	12°♄00'02	0°50'25	
	14936 Feb 13 22:03	0°♄		minimum elong	14940 Dec 18 15:58	12°♄05'18	0°51'23	
	14936 Apr 03 03:54	0°♄			14941 Jan 12 05:36	0°♄		
	14936 May 19 02:33	0°♄	max. Earth dist.		14941 Jan 31 12:04	13°♄40'02	2.48802 AU	
evening set	14936 Jun 05 11:28	11°♄50'52		morning rise	14941 Feb 15 06:57	23°♄55'56		
max. Earth dist.	14936 Jun 19 19:27	21°♄49'52	2.49190 AU		14941 Feb 24 03:58	0°♄		
	14936 Jul 01 08:04	0°♄		desc. node	14941 Mar 18 06:29	14°♄49'32		
					14941 Apr 10 13:09	0°♄		
conjunction	14936 Jul 27 21:58	19°♄17'42	-0°12'12		14941 May 28 19:01	0°♄		
minimum elong	14936 Jul 27 22:47	19°♄19'12	0°12'54		14941 Jul 20 14:22	0°♄		
behind sun begin	14936 Jul 27 08:12	18°♄52'18			14941 Oct 01 09:48	0°♄		
behind sun end	14936 Jul 28 13:23	19°♄46'07		retrograde	14941 Oct 23 02:49	2°♄33'20		
	14936 Aug 11 07:23	0°♄			14941 Nov 12 06:58	30°♄		
asc. node	14936 Aug 14 18:47	2°♄36'35		opposition	14941 Nov 30 08:30	24°♄00'19	-4°40'38	
	14936 Sep 19 13:43	0°♄		greatest brilliancy	14941 Dec 01 08:43	23°♄37'08	-1.5m	
morning rise	14936 Sep 27 23:33	6°♄33'00		min. Earth dist.	14941 Dec 06 08:05	21°♄43'11	0.61288 AU	
	14936 Oct 27 19:44	0°♄		direct	14942 Jan 10 07:14	14°♄06'41		
	14936 Dec 04 21:26	0°♄			14942 Mar 07 13:00	0°♄		
greatest brilliancy	14936 Dec 11 23:21	5°♄32'14	1.2m	asc. node	14942 Apr 06 16:28	16°♄32'38		
	14937 Jan 12 17:07	0°♄			14942 Apr 27 22:29	0°♄		
	14937 Feb 22 07:49	0°♄			14942 Jun 09 14:24	0°♄		
	14937 Apr 07 02:31	0°♄			14942 Jul 19 01:49	0°♄		
	14937 May 27 03:07	0°♄			14942 Aug 26 09:39	0°♄		
desc. node	14937 Jun 13 21:58	9°♄00'14			14942 Oct 03 21:39	0°♄		
retrograde	14937 Aug 12 15:31	25°♄44'31			14942 Nov 12 12:48	0°♄		
min. Earth dist.	14937 Sep 20 17:47	16°♄31'30	0.67687 AU	evening set	14942 Dec 17 05:57	25°♄15'20		
opposition	14937 Sep 22 12:04	15°♄49'38	-3°27'48		14942 Dec 23 22:14	0°♄		
greatest brilliancy	14937 Sep 22 05:29	15°♄56'09	-1.3m	desc. node	14943 Feb 02 17:59	28°♄13'56		
direct	14937 Nov 02 02:13	6°♄14'31			14943 Feb 05 08:47	0°♄		
	14938 Jan 18 07:02	0°♄						
	14938 Mar 13 12:33	0°♄	conjunction		14943 Feb 09 05:37	2°♄36'18	-0°03'56	
	14938 Apr 29 18:46	0°♄	minimum elong		14943 Feb 09 05:25	2°♄35'59	0°03'22	
	14938 Jun 12 03:43	0°♄	behind sun begin		14943 Feb 08 08:42	2°♄01'09		
asc. node	14938 Jul 02 10:17	14°♄44'50		behind sun end	14943 Feb 10 02:09	3°♄10'47		
	14938 Jul 22 19:46	0°♄		max. Earth dist.	14943 Mar 04 10:43	18°♄02'02	2.60587 AU	
evening set	14938 Jul 28 04:01	4°♄03'31			14943 Mar 22 18:53	0°♄		
	14938 Aug 30 16:23	0°♄		morning rise	14943 Mar 29 08:05	4°♄13'42		
max. Earth dist.	14938 Sep 17 14:18	14°♄07'10	2.36289 AU		14943 May 08 23:14	0°♄		
					14943 Jun 26 20:34	0°♄		
conjunction	14938 Oct 04 07:31	27°♄22'35	0°56'57		14943 Aug 17 06:35	0°♄		
minimum elong	14938 Oct 04 03:42	27°♄15'02	0°57'16		14943 Oct 15 00:55	0°♄		

retrograde	14943 Dec 11 17:37	15°♊06'57			14948 Dec 04 10:04	0°♎	
opposition	14944 Jan 15 04:38	8°♊08'39 -2°12'03			14949 Jan 23 11:37	0°♏	
greatest brilliancy	14944 Jan 16 00:25	7°♊51'27 -2.2m			14949 Mar 13 06:15	0°♐	
min. Earth dist.	14944 Jan 23 22:21	5°♊06'57 0.48612 AU	evening set		14949 Apr 13 22:59	19°♐56'54	
	14944 Feb 14 07:17	30°♋			14949 Apr 29 16:15	0°♑	
direct	14944 Feb 21 20:42	29°♋35'42	max. Earth dist.		14949 May 10 07:07	6°♑51'40 2.63842 AU	
asc. node	14944 Feb 23 00:47	29°♋36'17					
	14944 Feb 29 11:55	0°♌	conjunction		14949 May 28 07:27	18°♑37'55 -1°08'04	
	14944 May 09 14:03	0°♍	minimum elong		14949 May 28 08:16	18°♑39'15 1°09'01	
	14944 Jun 22 04:23	0°♎			14949 Jun 14 10:38	0°♏	
	14944 Aug 01 11:27	0°♏	morning rise		14949 Jul 13 09:08	19°♏36'42	
	14944 Sep 10 10:41	0°♐			14949 Jul 28 09:21	0°♑	
	14944 Oct 21 10:18	0°♑			14949 Sep 08 12:33	0°♒	
	14944 Dec 03 01:39	0°♒	asc. node		14949 Oct 15 01:05	26°♒58'43	
desc. node	14944 Dec 20 11:42	11°♒53'48			14949 Oct 19 01:37	0°♓	
	14945 Jan 16 12:29	0°♎			14949 Nov 27 11:50	0°♏	
evening set	14945 Feb 01 03:51	10°♎18'03			14950 Jan 05 15:04	0°♐	
	14945 Mar 03 12:28	0°♏			14950 Feb 14 19:13	0°♑	
					14950 Mar 30 13:54	0°♒	
conjunction	14945 Mar 19 17:43	10°♏23'54 -0°47'20			14950 May 29 10:00	0°♎	
minimum elong	14945 Mar 19 16:27	10°♏21'53 0°47'24	retrograde		14950 Jun 24 06:30	4°♎15'45	
max. Earth dist.	14945 Mar 27 08:28	15°♏15'31 2.67186 AU			14950 Jul 18 22:31	30°♋	
	14945 Apr 19 13:36	0°♐	min. Earth dist.		14950 Jul 26 16:43	27°♒13'32 0.56349 AU	
morning rise	14945 May 02 13:05	8°♐12'24	opposition		14950 Aug 02 13:13	24°♒35'00 0°29'48	
	14945 Jun 06 03:10	0°♑	greatest brilliancy		14950 Aug 02 10:14	24°♒37'52 -1.9m	
	14945 Jul 23 21:33	0°♒	desc. node		14950 Aug 13 06:51	20°♒42'59	
	14945 Sep 09 22:17	0°♑	direct		14950 Sep 08 03:02	16°♒23'40	
	14945 Oct 28 22:42	0°♒			14950 Nov 01 13:42	0°♎	
	14945 Dec 21 07:17	0°♓			14950 Dec 31 20:57	0°♏	
asc. node	14946 Jan 10 08:35	9°♓19'38			14951 Feb 21 19:15	0°♐	
retrograde	14946 Feb 23 02:09	19°♓43'46			14951 Apr 11 06:29	0°♑	
opposition	14946 Mar 24 13:29	14°♓51'02 5°08'51	evening set		14951 May 21 03:40	26°♑02'30	
greatest brilliancy	14946 Mar 24 22:31	14°♓45'00 -3.0m			14951 May 27 01:12	0°♒	
min. Earth dist.	14946 Mar 27 05:53	14°♓07'58 0.36842 AU	max. Earth dist.		14951 Jun 06 22:51	7°♒23'38 2.54187 AU	
direct	14946 Apr 23 15:36	9°♓40'15					
	14946 Jun 23 22:22	0°♏	conjunction		14951 Jul 09 00:47	29°♒44'17 -0°34'58	
	14946 Aug 11 23:54	0°♐	minimum elong		14951 Jul 09 02:24	29°♒47'08 0°35'51	
	14946 Sep 26 14:18	0°♑			14951 Jul 09 09:38	0°♑	
desc. node	14946 Nov 07 12:34	27°♑33'26			14951 Aug 19 14:42	0°♒	
	14946 Nov 11 06:29	0°♒	asc. node		14951 Sep 01 13:53	9°♒43'12	
	14946 Dec 27 18:49	0°♎	morning rise		14951 Sep 02 11:32	10°♒24'04	
	14947 Feb 13 00:57	0°♏			14951 Sep 28 03:24	0°♓	
evening set	14947 Mar 10 21:33	16°♏19'19			14951 Nov 05 14:45	0°♏	
	14947 Apr 01 13:21	0°♐			14951 Dec 13 20:17	0°♑	
max. Earth dist.	14947 Apr 18 14:21	10°♐47'33 2.68259 AU			14952 Jan 21 19:26	0°♒	
					14952 Mar 02 17:01	0°♓	
conjunction	14947 Apr 23 17:49	14°♑03'32 -1°10'02			14952 Apr 16 10:42	0°♎	
minimum elong	14947 Apr 23 17:11	14°♑02'33 1°10'39			14952 Jun 10 05:50	0°♏	
	14947 May 18 17:36	0°♑	desc. node		14952 Jun 30 12:54	7°♏43'34	
morning rise	14947 Jun 05 20:49	11°♑39'45	retrograde		14952 Jul 30 07:41	12°♏45'50	
	14947 Jul 04 01:46	0°♒	min. Earth dist.		14952 Sep 05 19:27	4°♏03'42 0.65746 AU	
	14947 Aug 18 06:48	0°♑	opposition		14952 Sep 09 01:44	2°♏46'14 -2°39'09	
	14947 Oct 01 05:41	0°♒	greatest brilliancy		14952 Sep 08 17:00	2°♏54'52 -1.4m	
	14947 Nov 13 00:40	0°♓			14952 Sep 16 05:54	30°♋	
asc. node	14947 Nov 28 09:17	10°♓54'58	direct		14952 Oct 18 20:34	23°♋27'50	
	14947 Dec 25 04:16	0°♏			14952 Nov 24 01:15	0°♏	
	14948 Feb 06 09:03	0°♐			14953 Jan 29 01:21	0°♐	
	14948 Mar 28 21:32	0°♑			14953 Mar 21 14:00	0°♑	
retrograde	14948 May 07 09:10	9°♑57'33			14953 May 07 04:02	0°♒	
min. Earth dist.	14948 Jun 02 21:33	5°♑08'12 0.42702 AU			14953 Jun 19 10:29	0°♑	
greatest brilliancy	14948 Jun 09 13:22	2°♑57'07 -2.6m	evening set		14953 Jul 05 05:07	11°♑25'23	
opposition	14948 Jun 11 00:05	2°♑28'20 5°26'05	asc. node		14953 Jul 19 04:44	21°♑45'05	
	14948 Jun 18 21:01	30°♋	max. Earth dist.		14953 Jul 21 16:11	23°♑36'00 2.40689 AU	
direct	14948 Jul 12 15:16	26°♋20'56			14953 Jul 30 04:40	0°♒	
	14948 Aug 06 11:06	0°♑					
desc. node	14948 Sep 24 20:28	20°♑30'20	conjunction		14953 Sep 04 08:13	27°♒46'45 0°32'06	
	14948 Oct 12 20:38	0°♒	minimum elong		14953 Sep 04 05:24	27°♒41'15 0°31'56	

	14953 Sep 07 04:27	0°♎		opposition	14958 Dec 26 10:52	19°♊21'48	-3°36'27
	14953 Oct 15 05:01	0°♍		greatest brilliancy	14958 Dec 27 14:07	18°♊56'47	-1.9m
morning rise	14953 Nov 16 12:02	25°♍33'51		min. Earth dist.	14959 Jan 03 11:24	16°♊25'52	0.54146 AU
	14953 Nov 22 03:20	0°♊		direct	14959 Feb 03 21:07	10°♊02'33	
	14953 Dec 30 20:59	0°♊		asc. node	14959 Mar 11 14:12	17°♊38'25	
	14954 Feb 09 07:10	0°♊			14959 Apr 06 16:12	0°♊	
	14954 Mar 24 08:07	0°♊			14959 May 24 01:30	0°♊	
	14954 May 10 09:17	0°♊			14959 Jul 04 00:57	0°♎	
desc. node	14954 May 18 10:21	4°♊46'13			14959 Aug 12 04:17	0°♍	
	14954 Jul 05 07:44	0°♊			14959 Sep 20 08:06	0°♊	
retrograde	14954 Sep 02 09:30	15°♊50'43			14959 Oct 30 14:57	0°♊	
opposition	14954 Oct 13 00:31	6°♊11'04	-4°22'37		14959 Dec 11 15:34	0°♊	
greatest brilliancy	14954 Oct 13 01:26	6°♊10'10	-1.2m	desc. node	14960 Jan 07 02:48	18°♊13'00	
min. Earth dist.	14954 Oct 13 14:55	5°♊56'52	0.68631 AU	evening set	14960 Jan 16 12:49	24°♊35'06	
	14954 Oct 30 02:57	30°♊			14960 Jan 24 14:37	0°♊	
direct	14954 Nov 23 09:44	26°♊17'58					
	14954 Dec 19 16:51	0°♊		conjunction	14960 Mar 05 06:32	26°♊44'33	-0°32'47
	14955 Feb 26 05:43	0°♊		minimum elong	14960 Mar 05 05:26	26°♊42'45	0°32'36
	14955 Apr 16 17:16	0°♊			14960 Mar 10 07:21	0°♊	
	14955 May 30 16:27	0°♊		max. Earth dist.	14960 Mar 18 12:10	5°♊17'07	2.65257 AU
asc. node	14955 Jun 06 00:15	4°♊31'54		morning rise	14960 Apr 19 05:51	25°♊31'37	
	14955 Jul 10 10:28	0°♊			14960 Apr 26 07:40	0°♊	
	14955 Aug 18 05:36	0°♎			14960 Jun 13 05:46	0°♊	
evening set	14955 Sep 10 06:45	18°♎12'59			14960 Jul 31 23:58	0°♊	
	14955 Sep 25 02:48	0°♍			14960 Sep 20 06:29	0°♊	
	14955 Nov 02 01:23	0°♊			14960 Nov 14 08:01	0°♊	
				retrograde	14961 Jan 21 11:15	20°♊47'02	
conjunction	14955 Nov 22 08:17	15°♊46'55	1°04'51	asc. node	14961 Jan 26 21:48	20°♊35'34	
minimum elong	14955 Nov 22 10:08	15°♊50'28	1°05'47	opposition	14961 Feb 21 14:33	15°♊13'13	1°47'14
	14955 Dec 10 22:38	0°♊		greatest brilliancy	14961 Feb 22 01:13	15°♊05'10	-2.8m
max. Earth dist.	14956 Jan 13 16:02	25°♊02'37	2.43116 AU	min. Earth dist.	14961 Feb 28 14:27	13°♊07'12	0.40246 AU
	14956 Jan 20 12:17	0°♊		direct	14961 Mar 26 22:25	8°♊40'30	
morning rise	14956 Jan 26 19:53	4°♊32'08			14961 May 27 13:58	0°♎	
	14956 Mar 03 07:56	0°♊			14961 Jul 13 02:34	0°♍	
desc. node	14956 Apr 04 01:25	21°♊06'40			14961 Aug 24 22:15	0°♊	
	14956 Apr 17 20:49	0°♊			14961 Oct 06 19:21	0°♊	
	14956 Jun 05 23:59	0°♊			14961 Nov 19 20:45	0°♊	
	14956 Aug 01 13:05	0°♊		desc. node	14961 Nov 24 01:15	2°♊48'06	
retrograde	14956 Oct 07 09:30	18°♊51'14			14962 Jan 04 08:18	0°♊	
opposition	14956 Nov 15 14:24	9°♊53'58	-4°53'13		14962 Feb 19 23:45	0°♊	
greatest brilliancy	14956 Nov 16 08:35	9°♊36'19	-1.4m	evening set	14962 Feb 24 19:45	3°♊04'46	
min. Earth dist.	14956 Nov 20 02:27	8°♊09'16	0.64685 AU		14962 Apr 08 05:57	0°♊	
	14956 Dec 22 15:27	30°♊					
direct	14956 Dec 27 01:00	29°♊52'37		conjunction	14962 Apr 10 07:56	1°♊19'12	-1°03'58
	14956 Dec 31 12:04	0°♊		minimum elong	14962 Apr 10 06:56	1°♊17'36	1°04'24
	14957 Mar 21 11:44	0°♊		max. Earth dist.	14962 Apr 10 01:35	1°♊09'08	2.68499 AU
asc. node	14957 Apr 23 04:45	20°♊14'24		morning rise	14962 May 23 08:12	28°♊37'34	
	14957 May 07 17:03	0°♊			14962 May 25 11:58	0°♊	
	14957 Jun 18 08:50	0°♊			14962 Jul 11 06:21	0°♊	
	14957 Jul 27 10:57	0°♎			14962 Aug 26 07:00	0°♊	
	14957 Sep 03 12:54	0°♍			14962 Oct 10 12:32	0°♊	
	14957 Oct 11 18:47	0°♊			14962 Nov 24 05:27	0°♎	
	14957 Nov 20 02:50	0°♊		asc. node	14962 Dec 15 00:47	13°♎54'41	
evening set	14957 Nov 24 00:43	2°♊55'06			14963 Jan 08 14:24	0°♍	
	14957 Dec 31 04:42	0°♊			14963 Mar 01 23:35	0°♊	
				retrograde	14963 Apr 13 05:06	10°♊57'36	
conjunction	14958 Jan 21 23:56	15°♊20'14	0°17'15	min. Earth dist.	14963 May 09 02:12	6°♊41'09	0.38270 AU
minimum elong	14958 Jan 22 00:55	15°♊21'56	0°18'00	opposition	14963 May 14 21:49	5°♊00'33	6°59'57
	14958 Feb 12 08:49	0°♊		greatest brilliancy	14963 May 13 14:18	5°♊23'21	-2.9m
desc. node	14958 Feb 19 12:56	4°♊50'31			14963 Jun 08 12:10	30°♊	
max. Earth dist.	14958 Feb 21 12:49	6°♊10'57	2.56554 AU	direct	14963 Jun 13 11:11	29°♊50'06	
morning rise	14958 Mar 14 05:46	19°♊55'50			14963 Jun 18 11:45	0°♊	
	14958 Mar 29 16:27	0°♊			14963 Sep 04 19:24	0°♊	
	14958 May 16 02:41	0°♊		desc. node	14963 Oct 12 08:13	21°♊41'52	
	14958 Jul 04 23:56	0°♊			14963 Oct 26 04:23	0°♊	
	14958 Aug 28 15:10	0°♊			14963 Dec 14 08:24	0°♊	
retrograde	14958 Nov 20 05:18	27°♊04'30			14964 Jan 31 23:50	0°♊	

	14964 Mar 20 03:34	0°♄			14968 Oct 22 20:00	0°♌		
evening set	14964 Mar 31 07:30	7°♄01'34			14968 Nov 29 20:07	0°♍		
max. Earth dist.	14964 May 01 04:41	26°♄39'24	2.66214 AU		14969 Jan 07 14:20	0°♎		
	14964 May 06 09:42	0°♏			14969 Feb 17 02:00	0°♏		
					14969 Apr 01 11:00	0°♐		
conjunction	14964 May 14 02:10	4°♏57'15	-1°12'07		14969 May 19 22:52	0°♑		
minimum elong	14964 May 14 02:23	4°♏57'35	1°12'58	desc. node	14969 Jun 04 03:02	8°♑19'18		
	14964 Jun 21 08:06	0°♑			14969 Jul 26 08:58	0°♒		
morning rise	14964 Jun 27 11:53	4°♑05'56		retrograde	14969 Aug 20 03:36	3°♒26'04		
	14964 Aug 04 16:39	0°♓			14969 Sep 12 05:41	30°♒♑		
	14964 Sep 16 09:29	0°♑		opposition	14969 Sep 29 23:51	23°♑35'44	-3°51'10	
	14964 Oct 27 14:04	0°♑		min. Earth dist.	14969 Sep 29 01:44	23°♑57'36	0.68322 AU	
asc. node	14964 Oct 31 20:56	3°♑10'33		greatest brilliancy	14969 Sep 29 19:27	23°♑40'04	-1.3m	
	14964 Dec 06 16:36	0°♌		direct	14969 Nov 09 22:33	13°♑53'10		
	14965 Jan 15 14:53	0°♍			14970 Jan 09 15:22	0°♄		
	14965 Feb 26 04:23	0°♎			14970 Mar 07 18:12	0°♏		
	14965 Apr 15 15:07	0°♏			14970 Apr 24 16:42	0°♑		
retrograde	14965 Jun 07 13:08	16°♏04'20			14970 Jun 07 06:42	0°♓		
min. Earth dist.	14965 Jul 07 15:27	9°♏51'39	0.51230 AU	asc. node	14970 Jun 22 17:38	11°♓11'14		
opposition	14965 Jul 15 13:35	6°♏54'37	2°13'58		14970 Jul 17 23:33	0°♑		
greatest brilliancy	14965 Jul 14 22:28	7°♏08'42	-2.1m	evening set	14970 Aug 11 20:21	19°♑05'16		
	14965 Aug 09 18:28	30°♒♑			14970 Aug 25 19:36	0°♑		
direct	14965 Aug 19 08:55	29°♑23'32			14970 Oct 02 17:15	0°♌		
desc. node	14965 Aug 29 17:45	0°♏02'35						
	14965 Aug 29 09:11	0°♏		conjunction	14970 Oct 22 07:38	15°♌33'41	1°05'05	
	14965 Nov 16 18:04	0°♐		minimum elong	14970 Oct 22 05:27	15°♌29'21	1°05'43	
	14966 Jan 09 22:57	0°♑			14970 Nov 09 14:43	0°♍		
	14966 Mar 01 06:44	0°♄		max. Earth dist.	14970 Dec 09 15:37	23°♍19'54	2.37632 AU	
	14966 Apr 18 05:13	0°♏			14970 Dec 18 09:20	0°♎		
evening set	14966 May 06 02:03	11°♏33'11		morning rise	14971 Jan 02 14:47	11°♎28'09		
max. Earth dist.	14966 May 26 07:21	24°♏53'20	2.58553 AU		14971 Jan 27 20:05	0°♏		
	14966 Jun 02 22:31	0°♑			14971 Mar 11 15:03	0°♐		
				desc. node	14971 Apr 21 19:33	27°♐03'02		
conjunction	14966 Jun 21 13:24	12°♑38'52	-0°52'02		14971 Apr 26 11:44	0°♑		
minimum elong	14966 Jun 21 14:58	12°♑41'34	0°53'01		14971 Jun 16 01:31	0°♄		
	14966 Jul 16 11:37	0°♓			14971 Aug 20 16:48	0°♏		
morning rise	14966 Aug 11 05:08	18°♓25'41		retrograde	14971 Sep 23 20:17	5°♏56'25		
	14966 Aug 27 00:15	0°♑			14971 Oct 24 23:04	30°♒♄		
asc. node	14966 Sep 18 10:00	16°♑43'45		opposition	14971 Nov 02 18:37	26°♄39'43	-4°50'42	
	14966 Oct 05 21:05	0°♑		greatest brilliancy	14971 Nov 03 05:49	26°♄28'45	-1.3m	
	14966 Nov 13 15:36	0°♌		min. Earth dist.	14971 Nov 05 18:03	25°♄29'54	0.67061 AU	
	14966 Dec 22 02:50	0°♍		direct	14971 Dec 14 09:39	16°♄37'54		
	14967 Jan 30 08:09	0°♎			14972 Feb 05 06:22	0°♏		
	14967 Mar 12 18:51	0°♏			14972 Apr 01 01:34	0°♑		
	14967 Apr 28 09:57	0°♐		asc. node	14972 May 09 18:25	25°♑21'03		
retrograde	14967 Jul 17 13:29	29°♐00'30			14972 May 16 10:57	0°♓		
desc. node	14967 Jul 18 01:27	29°♐00'24			14972 Jun 26 14:35	0°♑		
min. Earth dist.	14967 Aug 22 06:02	20°♐53'22	0.62799 AU		14972 Aug 04 12:16	0°♑		
opposition	14967 Aug 26 23:39	19°♐01'25	-1°38'02		14972 Sep 11 11:05	0°♌		
greatest brilliancy	14967 Aug 26 15:54	19°♐09'04	-1.5m		14972 Oct 19 12:43	0°♍		
direct	14967 Oct 04 17:44	10°♐04'20		evening set	14972 Oct 27 16:12	6°♍20'11		
	14967 Dec 13 03:14	0°♑			14972 Nov 27 14:58	0°♎		
	14968 Feb 08 05:37	0°♄						
	14968 Mar 29 04:15	0°♏		conjunction	14972 Dec 31 23:39	25°♑21'25	0°38'56	
	14968 May 14 08:07	0°♑		minimum elong	14973 Jan 01 02:00	25°♑25'39	0°39'51	
evening set	14968 Jun 15 13:15	22°♑10'13			14973 Jan 07 10:25	0°♏		
	14968 Jun 26 14:15	0°♓		max. Earth dist.	14973 Feb 08 22:47	22°♏51'18	2.51724 AU	
max. Earth dist.	14968 Jun 29 06:42	1°♓55'20	2.46174 AU		14973 Feb 19 09:15	0°♐		
asc. node	14968 Aug 04 23:04	28°♓50'54		morning rise	14973 Feb 25 15:33	4°♐14'35		
	14968 Aug 06 11:53	0°♑		desc. node	14973 Mar 08 07:09	11°♐23'18		
					14973 Apr 05 16:15	0°♑		
conjunction	14968 Aug 09 15:35	2°♑22'27	0°03'18		14973 May 23 12:18	0°♄		
minimum elong	14968 Aug 09 15:23	2°♑22'04	0°02'45		14973 Jul 13 22:11	0°♏		
behind sun begin	14968 Aug 08 14:21	1°♑34'56			14973 Sep 13 07:02	0°♑		
behind sun end	14968 Aug 10 16:25	3°♑09'16		retrograde	14973 Nov 01 16:45	11°♑20'44		
	14968 Sep 14 15:58	0°♑		opposition	14973 Dec 09 07:42	3°♑03'34	-4°24'21	
morning rise	14968 Oct 15 01:23	23°♑51'19		greatest brilliancy	14973 Dec 10 10:13	2°♑38'29	-1.7m	

min. Earth dist.	14973 Dec 16 02:30	0° \mathfrak{D} 30'03	0.58984 AU		14978 Dec 22 13:17	0° \mathfrak{H}	
	14973 Dec 17 11:07	30° \mathfrak{R} \mathbb{I}			14979 Feb 08 05:17	0° \mathfrak{Y}	
direct	14974 Jan 18 20:58	23° \mathbb{I} 18'27		evening set	14979 Mar 18 17:32	24° \mathfrak{Y} 12'06	
	14974 Feb 21 23:31	0° \mathfrak{D}			14979 Mar 27 22:20	0° \mathfrak{B}	
asc. node	14974 Mar 28 01:11	15° \mathfrak{D} 50'24		max. Earth dist.	14979 Apr 23 13:26	16° \mathfrak{B} 52'00	2.67753 AU
	14974 Apr 20 20:17	0° \mathcal{O}					
	14974 Jun 03 14:32	0° \mathfrak{M}		conjunction	14979 May 01 10:07	21° \mathfrak{B} 52'31	-1°11'58
	14974 Jul 13 11:35	0° \mathfrak{L}		minimum elong	14979 May 01 09:46	21° \mathfrak{B} 51'59	1°12'41
	14974 Aug 21 00:53	0° \mathfrak{M}			14979 May 14 02:49	0° \mathbb{I}	
	14974 Sep 28 17:11	0° \mathfrak{A}		morning rise	14979 Jun 13 20:24	19° \mathbb{I} 52'35	
	14974 Nov 07 12:31	0° \mathfrak{Z}			14979 Jun 29 07:11	0° \mathfrak{D}	
	14974 Dec 19 02:00	0° \approx			14979 Aug 13 04:07	0° \mathcal{O}	
evening set	14974 Dec 28 21:12	6° \approx 52'22			14979 Sep 25 14:53	0° \mathfrak{M}	
desc. node	14975 Jan 23 20:49	24° \approx 44'34			14979 Nov 06 17:29	0° \mathfrak{L}	
	14975 Jan 31 15:30	0° \mathfrak{H}		asc. node	14979 Nov 18 14:03	8° \mathfrak{L} 35'17	
					14979 Dec 17 22:31	0° \mathfrak{M}	
conjunction	14975 Feb 18 16:53	12° \mathfrak{H} 03'20	-0°15'15		14980 Jan 28 10:23	0° \mathfrak{A}	
minimum elong	14975 Feb 18 16:16	12° \mathfrak{H} 02'18	0°14'50		14980 Mar 13 14:43	0° \mathfrak{Z}	
behind sun begin	14975 Feb 18 08:52	11° \mathfrak{H} 50'04		retrograde	14980 May 19 11:49	24° \mathfrak{Z} 30'19	
behind sun end	14975 Feb 18 23:39	12° \mathfrak{H} 14'31		min. Earth dist.	14980 Jun 16 05:28	19° \mathfrak{Z} 11'31	0.45700 AU
max. Earth dist.	14975 Mar 10 05:14	24° \mathfrak{H} 52'17	2.62463 AU	greatest brilliancy	14980 Jun 23 08:48	16° \mathfrak{Z} 42'19	-2.4m
	14975 Mar 18 02:41	0° \mathfrak{Y}		opposition	14980 Jun 24 13:50	16° \mathfrak{Z} 16'53	4°15'31
morning rise	14975 Apr 06 11:51	12° \mathfrak{Y} 28'00		direct	14980 Jul 27 08:26	9° \mathfrak{Z} 36'53	
	14975 May 04 04:10	0° \mathfrak{B}		desc. node	14980 Sep 15 04:11	21° \mathfrak{Z} 57'06	
	14975 Jun 21 14:55	0° \mathbb{I}			14980 Oct 02 22:22	0° \approx	
	14975 Aug 10 20:02	0° \mathfrak{D}			14980 Nov 28 00:18	0° \mathfrak{H}	
	14975 Oct 04 03:06	0° \mathcal{O}			14981 Jan 18 05:05	0° \mathfrak{Y}	
retrograde	14975 Dec 25 12:31	27° \mathcal{O} 06'24			14981 Mar 08 11:11	0° \mathfrak{B}	
opposition	14976 Jan 27 18:39	20° \mathcal{O} 36'50	-1°01'40	evening set	14981 Apr 21 19:39	27° \mathfrak{B} 55'30	
greatest brilliancy	14976 Jan 28 04:35	20° \mathcal{O} 28'34	-2.4m		14981 Apr 25 01:18	0° \mathbb{I}	
min. Earth dist.	14976 Feb 05 10:23	17° \mathcal{O} 43'54	0.45469 AU	max. Earth dist.	14981 May 15 20:05	13° \mathbb{I} 28'13	2.62186 AU
asc. node	14976 Feb 13 10:32	15° \mathcal{O} 21'49					
direct	14976 Mar 04 03:59	12° \mathcal{O} 39'48		conjunction	14981 Jun 05 17:37	27° \mathbb{I} 16'20	-1°03'41
	14976 Apr 28 00:24	0° \mathfrak{M}		minimum elong	14981 Jun 05 18:45	27° \mathbb{I} 18'13	1°04'40
	14976 Jun 14 07:28	0° \mathfrak{L}			14981 Jun 09 19:32	0° \mathfrak{D}	
	14976 Jul 25 19:00	0° \mathfrak{M}		morning rise	14981 Jul 23 02:59	29° \mathfrak{D} 39'03	
	14976 Sep 04 10:19	0° \mathfrak{A}			14981 Jul 23 14:57	0° \mathcal{O}	
	14976 Oct 15 21:37	0° \mathfrak{Z}			14981 Sep 03 12:53	0° \mathfrak{M}	
	14976 Nov 27 22:23	0° \approx		asc. node	14981 Oct 05 06:41	23° \mathfrak{M} 33'14	
desc. node	14976 Dec 10 15:43	8° \approx 38'46			14981 Oct 13 19:36	0° \mathfrak{L}	
	14977 Jan 11 16:08	0° \mathfrak{H}			14981 Nov 21 23:21	0° \mathfrak{M}	
evening set	14977 Feb 10 00:34	19° \mathfrak{H} 09'18			14981 Dec 30 19:09	0° \mathfrak{A}	
	14977 Feb 26 20:30	0° \mathfrak{Y}			14982 Feb 08 11:42	0° \mathfrak{Z}	
					14982 Mar 23 00:43	0° \approx	
conjunction	14977 Mar 27 16:55	18° \mathfrak{Y} 25'34	-0°54'27		14982 May 13 07:38	0° \mathfrak{H}	
minimum elong	14977 Mar 27 15:41	18° \mathfrak{Y} 23'37	0°54'38	retrograde	14982 Jul 03 01:25	14° \mathfrak{H} 03'03	
max. Earth dist.	14977 Apr 01 09:24	21° \mathfrak{Y} 24'20	2.67883 AU	desc. node	14982 Aug 03 13:00	7° \mathfrak{H} 25'43	
	14977 Apr 14 22:32	0° \mathfrak{B}		min. Earth dist.	14982 Aug 05 17:14	6° \mathfrak{H} 35'59	0.58913 AU
morning rise	14977 May 10 02:24	15° \mathfrak{B} 55'35		opposition	14982 Aug 11 20:33	4° \mathfrak{H} 12'29	-0°22'08
	14977 Jun 01 08:28	0° \mathbb{I}		greatest brilliancy	14982 Aug 11 18:19	4° \mathfrak{H} 14'40	-1.7m
	14977 Jul 18 16:54	0° \mathfrak{D}			14982 Aug 23 10:36	30° \mathfrak{R} \approx	
	14977 Sep 03 21:02	0° \mathcal{O}		direct	14982 Sep 18 07:31	25° \approx 42'35	
	14977 Oct 21 03:12	0° \mathfrak{M}			14982 Oct 16 16:09	0° \mathfrak{H}	
	14977 Dec 08 16:48	0° \mathfrak{L}			14982 Dec 25 03:46	0° \mathfrak{Y}	
asc. node	14977 Dec 31 16:07	13° \mathfrak{L} 14'00			14983 Feb 16 12:03	0° \mathfrak{B}	
	14978 Feb 04 04:01	0° \mathfrak{M}			14983 Apr 06 10:35	0° \mathbb{I}	
retrograde	14978 Mar 13 16:23	8° \mathfrak{M} 17'19			14983 May 22 08:48	0° \mathfrak{D}	
opposition	14978 Apr 12 06:46	3° \mathfrak{M} 22'07	6°34'00	evening set	14983 May 30 05:06	5° \mathfrak{D} 18'27	
greatest brilliancy	14978 Apr 12 01:53	3° \mathfrak{M} 25'22	-3.0m	max. Earth dist.	14983 Jun 14 11:34	15° \mathfrak{D} 47'30	2.51509 AU
min. Earth dist.	14978 Apr 11 17:02	3° \mathfrak{M} 31'14	0.36367 AU		14983 Jul 04 16:56	0° \mathcal{O}	
	14978 Apr 26 10:02	30° \mathfrak{R} \mathfrak{L}					
direct	14978 May 11 12:46	28° \mathfrak{L} 31'32		conjunction	14983 Jul 19 21:14	10° \mathcal{O} 54'14	-0°22'36
	14978 May 26 09:03	0° \mathfrak{M}		minimum elong	14983 Jul 19 22:32	10° \mathcal{O} 56'35	0°23'24
	14978 Aug 01 17:52	0° \mathfrak{A}			14983 Aug 14 19:53	0° \mathfrak{M}	
	14978 Sep 19 07:24	0° \mathfrak{Z}		asc. node	14983 Aug 22 19:24	5° \mathfrak{M} 59'06	
desc. node	14978 Oct 28 18:29	25° \mathfrak{Z} 11'00		morning rise	14983 Sep 16 18:37	25° \mathfrak{M} 00'37	
	14978 Nov 05 07:36	0° \approx			14983 Sep 23 05:42	0° \mathfrak{L}	

	14983 Oct 31 14:20	0°♌			14989 Jun 12 20:32	0°♐	
	14983 Dec 08 17:16	0°♊			14989 Jul 22 04:04	0°♉	
	14984 Jan 16 13:15	0°♊			14989 Aug 29 09:08	0°♌	
	14984 Feb 26 04:53	0°♐			14989 Oct 06 17:38	0°♊	
	14984 Apr 10 05:02	0°♋			14989 Nov 15 04:18	0°♊	
	14984 May 31 12:23	0°♑	evening set		14989 Dec 07 13:44	16°♊29'07	
desc. node	14984 Jun 20 16:26	9°♑25'04			14989 Dec 26 09:00	0°♐	
retrograde	14984 Aug 06 23:05	20°♑46'42					
min. Earth dist.	14984 Sep 14 09:30	11°♑46'54	0.66957 AU	conjunction	14990 Feb 01 14:39	25°♐54'37	0°04'52
opposition	14984 Sep 16 19:48	10°♑49'12	-3°09'19	minimum elong	14990 Feb 01 14:55	25°♐55'05	0°05'30
greatest brilliancy	14984 Sep 16 11:54	10°♑57'02	-1.3m	behind sun begin	14990 Jan 31 18:16	25°♐19'53	
direct	14984 Oct 27 02:28	1°♑20'55		behind sun end	14990 Feb 02 11:35	26°♐30'14	
	14985 Jan 22 04:08	0°♉			14990 Feb 07 15:08	0°♋	
	14985 Mar 16 05:04	0°♌		desc. node	14990 Feb 09 14:13	1°♋19'37	
	14985 May 02 05:43	0°♍		max. Earth dist.	14990 Feb 27 23:34	13°♋38'05	2.58884 AU
	14985 Jun 14 15:04	0°♍		morning rise	14990 Mar 22 23:47	28°♋43'44	
asc. node	14985 Jul 09 09:55	18°♍03'06			14990 Mar 24 22:50	0°♑	
evening set	14985 Jul 17 16:12	24°♍12'08			14990 May 11 04:13	0°♉	
	14985 Jul 25 09:13	0°♐			14990 Jun 29 09:39	0°♌	
max. Earth dist.	14985 Aug 11 22:03	13°♐22'20	2.37897 AU		14990 Aug 20 21:38	0°♍	
	14985 Sep 02 07:55	0°♉			14990 Oct 24 10:28	0°♍	
				retrograde	14990 Dec 01 23:02	7°♍28'43	
conjunction	14985 Sep 20 16:47	14°♉27'19	0°47'25	opposition	14991 Jan 06 06:16	0°♍09'25	-2°52'59
minimum elong	14985 Sep 20 12:54	14°♉19'39	0°47'31		14991 Jan 06 16:49	30°♐47'46	-2.1m
	14985 Oct 10 07:34	0°♌		greatest brilliancy	14991 Jan 07 06:30	29°♍47'46	-2.1m
	14985 Nov 17 05:19	0°♊		min. Earth dist.	14991 Jan 14 18:36	27°♍07'27	0.51138 AU
morning rise	14985 Dec 04 11:53	13°♊30'09		direct	14991 Feb 13 19:46	21°♍12'48	
	14985 Dec 25 22:32	0°♊		asc. node	14991 Mar 01 21:58	22°♍56'47	
	14986 Feb 04 07:39	0°♐			14991 Mar 23 23:22	0°♍	
	14986 Mar 19 04:12	0°♋			14991 May 16 06:49	0°♐	
	14986 May 04 14:30	0°♑			14991 Jun 27 12:20	0°♉	
desc. node	14986 May 08 13:27	2°♑25'04			14991 Aug 06 05:22	0°♌	
	14986 Jun 26 17:20	0°♉			14991 Sep 14 18:31	0°♊	
retrograde	14986 Sep 10 01:07	23°♉26'40			14991 Oct 25 08:55	0°♊	
opposition	14986 Oct 20 11:55	13°♉54'17	-4°36'17		14991 Dec 06 16:06	0°♐	
greatest brilliancy	14986 Oct 20 16:20	13°♉49'57	-1.2m	desc. node	14991 Dec 28 07:03	14°♐50'33	
min. Earth dist.	14986 Oct 21 22:47	13°♉20'01	0.68365 AU		14992 Jan 19 20:05	0°♋	
direct	14986 Dec 01 01:13	3°♉56'51		evening set	14992 Jan 26 04:03	4°♋12'16	
	14987 Feb 19 01:38	0°♌			14992 Mar 05 15:46	0°♑	
	14987 Apr 11 03:48	0°♍					
	14987 May 25 13:35	0°♍		conjunction	14992 Mar 13 14:31	5°♑07'06	-0°41'40
asc. node	14987 May 27 08:06	1°♍15'24		minimum elong	14992 Mar 13 13:17	5°♑05'08	0°41'38
	14987 Jul 05 10:51	0°♐		max. Earth dist.	14992 Mar 23 17:21	11°♑36'14	2.66420 AU
	14987 Aug 13 06:43	0°♉			14992 Apr 21 15:40	0°♉	
	14987 Sep 20 04:14	0°♌		morning rise	14992 Apr 26 20:44	3°♉17'39	
evening set	14987 Sep 27 22:24	6°♌09'32			14992 Jun 08 08:21	0°♌	
	14987 Oct 28 03:23	0°♊			14992 Jul 26 12:12	0°♍	
	14987 Dec 06 01:35	0°♊			14992 Sep 13 09:00	0°♍	
					14992 Nov 03 07:44	0°♐	
conjunction	14987 Dec 08 04:49	1°♊36'45	0°57'50		14993 Jan 04 03:52	0°♉	
minimum elong	14987 Dec 08 07:38	1°♊42'03	0°58'48	asc. node	14993 Jan 17 06:01	3°♉58'46	
	14988 Jan 15 16:22	0°♐		retrograde	14993 Feb 08 08:23	6°♉53'32	
max. Earth dist.	14988 Jan 25 02:04	6°♐44'04	2.46303 AU	opposition	14993 Mar 10 09:56	1°♉47'24	3°43'18
morning rise	14988 Feb 07 19:08	16°♐24'24		greatest brilliancy	14993 Mar 10 23:54	1°♉37'37	-2.9m
	14988 Feb 27 11:49	0°♋		min. Earth dist.	14993 Mar 15 09:21	0°♉24'04	0.38012 AU
desc. node	14988 Mar 25 03:22	17°♋50'27			14993 Mar 16 20:38	30°♐47'46	
	14988 Apr 12 20:39	0°♑		direct	14993 Apr 10 19:03	26°♐04'39	
	14988 May 31 08:26	0°♉			14993 May 05 01:38	0°♉	
	14988 Jul 24 07:15	0°♌			14993 Jul 02 23:42	0°♌	
retrograde	14988 Oct 16 03:38	27°♌04'23			14993 Aug 17 08:24	0°♊	
opposition	14988 Nov 23 21:01	18°♌19'46	-4°47'45		14993 Sep 30 11:41	0°♊	
greatest brilliancy	14988 Nov 24 18:41	17°♌58'53	-1.5m	desc. node	14993 Nov 14 07:07	29°♊58'54	
min. Earth dist.	14988 Nov 29 05:16	16°♌16'30	0.62940 AU		14993 Nov 14 07:46	0°♐	
direct	14989 Jan 04 02:44	8°♌21'39			14993 Dec 30 07:20	0°♋	
	14989 Mar 13 06:41	0°♍			14994 Feb 15 06:05	0°♑	
asc. node	14989 Apr 13 13:57	18°♍15'00		evening set	14994 Mar 04 21:54	11°♑11'32	
	14989 May 01 14:43	0°♍			14994 Apr 03 15:19	0°♉	

max. Earth dist.	14994 Apr 15 00:30	7°♄12'32	2.68477 AU	desc. node	14999 Jul 08 07:19	5°♑39'01	
				retrograde	14999 Jul 25 11:43	7°♑28'16	
conjunction	14994 Apr 17 23:33	9°♄05'08	-1°07'59		14999 Aug 28 16:47	30°♊♋	
minimum elong	14994 Apr 17 22:45	9°♄03'52	1°08'31	min. Earth dist.	14999 Aug 31 05:02	29°♋01'15	0.64549 AU
	14994 May 20 20:22	0°♈		opposition	14999 Sep 04 03:07	27°♋28'20	-2°15'35
morning rise	14994 May 30 23:50	6°♈29'35		greatest brilliancy	14999 Sep 03 18:16	27°♋37'05	-1.4m
	14994 Jul 06 09:23	0°♄		direct	14999 Oct 13 11:46	18°♋18'46	
	14994 Aug 20 23:06	0°♊			14999 Dec 02 21:14	0°♑	
	14994 Oct 04 11:00	0°♎			15000 Feb 02 05:11	0°♄	
	14994 Nov 16 23:43	0°♊			15000 Mar 25 01:54	0°♈	
asc. node	14994 Dec 05 08:32	12°♊46'17			15000 May 10 13:03	0°♄	
	14994 Dec 30 05:30	0°♌			15000 Jun 22 20:44	0°♊	
	14995 Feb 13 15:51	0°♈		evening set	15000 Jun 27 07:23	3°♊01'04	
retrograde	14995 Apr 28 00:54	28°♈22'27		max. Earth dist.	15000 Jul 11 11:31	13°♊28'14	2.43139 AU
min. Earth dist.	14995 May 23 22:50	23°♈52'06	0.40498 AU	asc. node	15000 Jul 27 04:59	25°♊06'22	
greatest brilliancy	14995 May 29 20:45	22°♈02'06	-2.7m		15000 Aug 02 17:39	0°♎	
opposition	14995 May 31 08:40	21°♈33'57	6°15'24				
direct	14995 Jul 01 00:55	15°♈53'30		conjunction	15000 Aug 24 12:51	16°♎35'46	0°19'37
	14995 Aug 22 16:59	0°♄		minimum elong	15000 Aug 24 11:14	16°♎32'39	0°19'16
desc. node	14995 Oct 02 13:39	20°♄53'16			15000 Sep 10 19:56	0°♊	
	14995 Oct 18 16:50	0°♌			15000 Oct 18 22:12	0°♌	
	14995 Dec 08 12:57	0°♋		morning rise	15000 Nov 03 01:43	11°♌59'59	
	14996 Jan 26 22:21	0°♑			15000 Nov 25 20:57	0°♈	
	14996 Mar 15 10:20	0°♄			15001 Jan 03 13:48	0°♄	
evening set	14996 Apr 08 01:55	14°♄52'30			15001 Feb 12 23:01	0°♌	
	14996 May 01 19:02	0°♈			15001 Mar 28 00:55	0°♋	
max. Earth dist.	14996 May 06 09:29	2°♈57'46	2.65009 AU		15001 May 14 11:33	0°♑	
				desc. node	15001 May 26 06:09	6°♑48'46	
conjunction	14996 May 22 02:25	13°♈08'52	-1°10'21		15001 Jul 12 01:47	0°♄	
minimum elong	14996 May 22 02:58	13°♈09'47	1°11'15	retrograde	15001 Aug 28 16:33	11°♄03'48	
	14996 Jun 16 16:03	0°♄		opposition	15001 Oct 08 11:03	1°♄19'03	-4°11'01
morning rise	14996 Jul 06 07:56	13°♄12'37		greatest brilliancy	15001 Oct 08 09:27	1°♄20'37	-1.2m
	14996 Jul 30 19:52	0°♊		min. Earth dist.	15001 Oct 08 09:21	1°♄20'43	0.68626 AU
	14996 Sep 11 05:54	0°♎			15001 Oct 11 19:28	30°♊♑	
asc. node	14996 Oct 22 01:55	29°♎59'40		direct	15001 Nov 18 16:34	21°♑30'08	
	14996 Oct 22 02:06	0°♊			15001 Dec 30 09:00	0°♄	
	14996 Nov 30 19:23	0°♌			15002 Mar 02 14:12	0°♈	
	14997 Jan 09 05:37	0°♈			15002 Apr 20 10:46	0°♄	
	14997 Feb 18 20:01	0°♄			15002 Jun 03 07:22	0°♊	
	14997 Apr 04 20:44	0°♌		asc. node	15002 Jun 13 23:24	7°♊40'03	
retrograde	14997 Jun 17 06:26	27°♌11'53			15002 Jul 14 02:12	0°♎	
min. Earth dist.	14997 Jul 18 15:47	20°♌31'32	0.54126 AU		15002 Aug 21 22:26	0°♊	
opposition	14997 Jul 26 01:19	17°♌42'47	1°11'34	evening set	15002 Aug 28 21:50	5°♊29'17	
greatest brilliancy	14997 Jul 25 17:40	17°♌50'03	-2.0m		15002 Sep 28 20:03	0°♌	
desc. node	14997 Aug 19 23:49	10°♌34'35			15002 Nov 05 17:49	0°♈	
direct	14997 Aug 30 21:40	9°♌48'14					
	14997 Nov 07 19:49	0°♋		conjunction	15002 Nov 10 01:36	3°♈23'26	1°07'11
	14998 Jan 04 00:14	0°♑		minimum elong	15002 Nov 10 01:55	3°♈24'03	1°08'01
	14998 Feb 24 05:21	0°♄			15002 Dec 14 12:54	0°♄	
	14998 Apr 13 11:47	0°♈		max. Earth dist.	15003 Jan 03 03:19	14°♄43'06	2.40553 AU
evening set	14998 May 14 12:46	20°♈09'31		morning rise	15003 Jan 17 18:47	25°♄29'33	
	14998 May 29 07:07	0°♄			15003 Jan 23 23:51	0°♌	
max. Earth dist.	14998 Jun 01 17:07	2°♄18'09	2.56231 AU		15003 Mar 07 17:23	0°♋	
				desc. node	15003 Apr 12 21:55	23°♋59'48	
conjunction	14998 Jul 01 04:57	22°♄33'51	-0°42'55		15003 Apr 22 07:09	0°♑	
minimum elong	14998 Jul 01 06:36	22°♄36'44	0°43'51		15003 Jun 10 20:23	0°♄	
	14998 Jul 11 18:38	0°♊			15003 Aug 08 18:34	0°♈	
	14998 Aug 22 04:02	0°♎		retrograde	15003 Oct 02 23:57	13°♈45'24	
morning rise	14998 Aug 23 07:07	0°♎50'15		opposition	15003 Nov 11 13:54	4°♈38'55	-4°53'44
asc. node	14998 Sep 08 14:42	13°♎02'58		greatest brilliancy	15003 Nov 12 05:04	4°♈24'10	-1.3m
	14998 Sep 30 20:50	0°♊		min. Earth dist.	15003 Nov 15 10:04	3°♈09'19	0.65874 AU
	14998 Nov 08 11:35	0°♌			15003 Nov 23 22:24	30°♊♄	
	14998 Dec 16 19:18	0°♈		direct	15003 Dec 23 03:57	24°♄36'37	
	14999 Jan 24 19:54	0°♄			15004 Jan 23 15:05	0°♈	
	14999 Mar 06 20:41	0°♌			15004 Mar 26 10:56	0°♄	
	14999 Apr 21 02:47	0°♋		asc. node	15004 May 01 02:14	22°♄38'34	
	14999 Jun 18 19:29	0°♑			15004 May 11 20:52	0°♊	

	15004 Jun 22 08:20	0°♎		morning rise	15009 May 18 15:44	23°♎40'30	
	15004 Jul 31 08:56	0°♏			15009 May 28 14:52	0°♐	
	15004 Sep 07 09:29	0°♑			15009 Jul 14 15:19	0°♑	
	15004 Oct 15 13:01	0°♒			15009 Aug 30 03:22	0°♒	
evening set	15004 Nov 13 14:40	22°♒21'45			15009 Oct 15 04:00	0°♓	
	15004 Nov 23 17:26	0°♓			15009 Nov 30 04:41	0°♏	
	15005 Jan 03 15:09	0°♐		asc. node	15009 Dec 22 23:07	14°♏31'12	
					15010 Jan 17 10:48	0°♑	
conjunction	15005 Jan 14 06:08	7°♐33'14	0°26'33	retrograde	15010 Apr 01 10:35	27°♑18'55	
minimum elong	15005 Jan 14 07:42	7°♐36'00	0°27'23	min. Earth dist.	15010 Apr 28 04:02	22°♑59'40	0.37013 AU
	15005 Feb 15 15:26	0°♒		opposition	15010 May 01 23:06	21°♑57'21	7°09'27
max. Earth dist.	15005 Feb 17 07:40	1°♒08'20	2.54488 AU	greatest brilliancy	15010 May 01 01:19	22°♑12'16	-3.0m
desc. node	15005 Feb 27 09:49	7°♒56'51		direct	15010 May 31 00:43	17°♑03'29	
morning rise	15005 Mar 08 06:43	13°♒52'08			15010 Jul 18 19:02	0°♒	
	15005 Apr 01 21:10	0°♓			15010 Sep 11 22:25	0°♓	
	15005 May 19 09:42	0°♎		desc. node	15010 Oct 20 01:21	23°♓14'55	
	15005 Jul 08 19:12	0°♏			15010 Oct 30 22:45	0°♐	
	15005 Sep 03 10:37	0°♑			15010 Dec 18 03:26	0°♒	
retrograde	15005 Nov 12 20:35	20°♑33'17			15011 Feb 04 07:26	0°♓	
opposition	15005 Dec 19 18:31	12°♑34'09	-4°00'02		15011 Mar 24 06:07	0°♎	
greatest brilliancy	15005 Dec 20 22:05	12°♑08'28	-1.8m	evening set	15011 Mar 27 12:22	2°♎03'07	
min. Earth dist.	15005 Dec 27 07:09	9°♑46'28	0.56413 AU	max. Earth dist.	15011 Apr 29 14:56	23°♎02'14	2.67007 AU
direct	15006 Jan 28 19:00	3°♑01'10					
asc. node	15006 Mar 19 11:23	16°♑28'15		conjunction	15011 May 10 04:25	29°♎47'58	-1°12'36
	15006 Apr 13 16:33	0°♒		minimum elong	15011 May 10 04:24	29°♎47'56	1°13'23
	15006 May 29 04:51	0°♓			15011 May 10 11:55	0°♏	
	15006 Jul 08 15:33	0°♏		morning rise	15011 Jun 23 01:44	28°♏21'09	
	15006 Aug 16 11:43	0°♑			15011 Jun 25 13:36	0°♑	
	15006 Sep 24 09:20	0°♒			15011 Aug 09 04:13	0°♒	
	15006 Nov 03 09:35	0°♓			15011 Sep 21 05:29	0°♓	
	15006 Dec 15 03:45	0°♐			15011 Nov 01 19:37	0°♏	
evening set	15007 Jan 09 18:15	17°♐43'46		asc. node	15011 Nov 09 20:47	5°♏54'37	
desc. node	15007 Jan 14 22:52	21°♐16'01			15011 Dec 12 08:40	0°♑	
	15007 Jan 27 21:09	0°♒			15012 Jan 21 19:58	0°♒	
					15012 Mar 04 10:07	0°♓	
conjunction	15007 Feb 28 17:29	21°♒05'20	-0°25'49		15012 Apr 27 02:31	0°♐	
minimum elong	15007 Feb 28 16:31	21°♒03'47	0°25'33	retrograde	15012 May 31 14:44	7°♐40'09	
	15007 Mar 14 10:16	0°♓		min. Earth dist.	15012 Jun 29 15:09	1°♐51'50	0.48770 AU
max. Earth dist.	15007 Mar 16 17:52	1°♓29'54	2.64121 AU		15012 Jul 04 18:47	30°♒♓	
morning rise	15007 Apr 15 09:58	20°♓30'16		opposition	15012 Jul 07 21:12	28°♓52'05	3°04'24
	15007 Apr 30 10:03	0°♎		greatest brilliancy	15012 Jul 06 23:56	29°♓11'25	-2.2m
	15007 Jun 17 12:43	0°♏		direct	15012 Aug 10 19:33	21°♓42'35	
	15007 Aug 05 19:57	0°♑		desc. node	15012 Sep 06 10:38	25°♓41'50	
	15007 Sep 26 11:28	0°♒			15012 Sep 19 19:10	0°♐	
	15007 Nov 26 04:49	0°♓			15012 Nov 21 23:18	0°♒	
retrograde	15008 Jan 10 14:27	10°♓20'34			15013 Jan 13 17:16	0°♓	
asc. node	15008 Feb 04 19:26	6°♓26'43			15013 Mar 04 13:34	0°♎	
opposition	15008 Feb 11 16:15	4°♓21'28	0°27'24		15013 Apr 21 09:04	0°♏	
greatest brilliancy	15008 Feb 11 19:37	4°♓18'49	-2.6m	evening set	15013 Apr 30 21:11	6°♏07'07	
min. Earth dist.	15008 Feb 19 16:22	1°♓49'33	0.42465 AU	max. Earth dist.	15013 May 22 16:58	20°♏22'55	2.60276 AU
	15008 Feb 26 01:32	30°♒♒			15013 Jun 06 03:50	0°♑	
direct	15008 Mar 17 11:06	27°♒08'22					
	15008 Apr 06 19:37	0°♓		conjunction	15013 Jun 15 13:34	6°♑20'17	-0°57'36
	15008 Jun 05 19:52	0°♏		minimum elong	15013 Jun 15 14:59	6°♑22'40	0°58'35
	15008 Jul 19 09:41	0°♑			15013 Jul 19 20:45	0°♒	
	15008 Aug 30 00:47	0°♒		morning rise	15013 Aug 03 14:32	10°♒26'28	
	15008 Oct 11 03:43	0°♓			15013 Aug 30 14:33	0°♓	
	15008 Nov 23 15:49	0°♐		asc. node	15013 Sep 26 11:03	19°♓59'03	
desc. node	15008 Dec 01 19:40	5°♐30'21			15013 Oct 09 16:26	0°♏	
	15009 Jan 07 17:50	0°♒			15013 Nov 17 15:10	0°♑	
evening set	15009 Feb 19 13:58	27°♒43'19			15013 Dec 26 05:47	0°♒	
	15009 Feb 23 03:22	0°♓			15014 Feb 03 14:21	0°♓	
					15014 Mar 17 08:18	0°♐	
conjunction	15009 Apr 05 12:50	26°♓20'44	-1°00'29		15014 May 04 05:08	0°♒	
minimum elong	15009 Apr 05 11:43	26°♓18'57	1°00'48	retrograde	15014 Jul 12 10:56	23°♒14'24	
max. Earth dist.	15009 Apr 07 09:40	27°♓31'48	2.68334 AU	desc. node	15014 Jul 25 18:52	22°♒00'36	
	15009 Apr 11 07:10	0°♎		min. Earth dist.	15014 Aug 16 06:24	15°♒24'29	0.61173 AU

opposition	15014 Aug 21 15:18	13° H 18'03	-1°08'27	greatest brilliancy	15019 Sep 16 12:06	0° M 12'22	1.1m
greatest brilliancy	15014 Aug 21 09:09	13° H 24'05	-1.6m	evening set	15019 Oct 16 11:10	23° M 54'05	
direct	15014 Sep 28 20:24	4° H 32'09			15019 Oct 24 05:50	0° J	
	15014 Dec 18 15:49	0° Y			15019 Dec 02 05:11	0° Z	
	15015 Feb 11 23:53	0° B					
	15015 Apr 02 12:50	0° II		conjunction	15019 Dec 23 16:55	16° Z 02'09	0°47'41
	15015 May 18 15:32	0° E		minimum elong	15019 Dec 23 19:42	16° Z 07'16	0°48'38
evening set	15015 Jun 09 19:37	15° E 07'37			15020 Jan 11 21:02	0° \approx	
max. Earth dist.	15015 Jun 23 21:15	24° E 57'48	2.48605 AU	max. Earth dist.	15020 Feb 04 14:19	16° \approx 49'06	2.49359 AU
	15015 Jun 30 23:42	0° O		morning rise	15020 Feb 19 19:43	27° \approx 20'59	
					15020 Feb 23 16:47	0° H	
conjunction	15015 Aug 01 18:09	23° O 05'30	-0°08'23	desc. node	15020 Mar 16 03:47	14° H 26'17	
minimum elong	15015 Aug 01 18:45	23° O 06'37	0°09'03		15020 Apr 08 22:37	0° Y	
behind sun begin	15015 Jul 31 22:28	22° O 29'05			15020 May 26 23:00	0° B	
behind sun end	15015 Aug 02 15:01	23° O 44'12			15020 Jul 18 04:26	0° II	
	15015 Aug 11 00:46	0° M			15020 Sep 23 07:11	0° E	
asc. node	15015 Aug 13 23:04	2° M 11'46		retrograde	15020 Oct 26 07:52	5° E 33'55	
	15015 Sep 19 08:05	0° E			15020 Nov 25 12:08	30° R II	
morning rise	15015 Oct 03 16:34	11° E 11'28		opposition	15020 Dec 03 11:57	27° II 03'45	-4°36'24
	15015 Oct 27 14:24	0° M		greatest brilliancy	15020 Dec 04 12:38	26° II 40'12	-1.6m
greatest brilliancy	15015 Nov 29 10:50	25° M 55'04	1.2m	min. Earth dist.	15020 Dec 09 16:08	24° II 42'46	0.60876 AU
	15015 Dec 04 15:36	0° J		direct	15021 Jan 13 10:21	17° II 11'29	
	15016 Jan 12 09:45	0° Z			15021 Mar 03 21:58	0° E	
	15016 Feb 21 21:22	0° \approx		asc. node	15021 Apr 04 22:24	16° E 52'50	
	15016 Apr 05 09:47	0° H			15021 Apr 26 00:29	0° O	
	15016 May 24 16:31	0° Y			15021 Jun 08 02:08	0° M	
desc. node	15016 Jun 11 21:55	9° Y 31'08			15021 Jul 17 17:24	0° E	
retrograde	15016 Aug 15 12:07	28° Y 33'25			15021 Aug 25 02:41	0° M	
min. Earth dist.	15016 Sep 23 19:21	19° Y 17'12	0.67842 AU		15021 Oct 02 14:46	0° J	
opposition	15016 Sep 25 09:27	18° Y 39'32	-3°35'24		15021 Nov 11 05:04	0° Z	
greatest brilliancy	15016 Sep 25 03:14	18° Y 45'41	-1.3m	evening set	15021 Dec 20 23:49	28° Z 53'58	
direct	15016 Nov 05 01:41	9° Y 02'48			15021 Dec 22 13:04	0° \approx	
	15017 Jan 15 10:17	0° B		desc. node	15022 Jan 31 16:50	27° \approx 49'41	
	15017 Mar 11 15:43	0° II			15022 Feb 03 21:50	0° H	
	15017 Apr 28 06:06	0° E					
	15017 Jun 10 19:23	0° O		conjunction	15022 Feb 12 13:03	5° H 48'42	-0°07'07
asc. node	15017 Jun 30 16:42	14° O 25'12		minimum elong	15022 Feb 12 12:44	5° H 48'11	0°06'37
	15017 Jul 21 13:56	0° M		behind sun begin	15022 Feb 11 17:26	5° H 15'51	
evening set	15017 Aug 01 07:30	8° M 09'42		behind sun end	15022 Feb 13 08:02	6° H 20'30	
	15017 Aug 29 11:43	0° E		max. Earth dist.	15022 Mar 07 00:19	20° H 42'39	2.60960 AU
	15017 Oct 06 10:15	0° M			15022 Mar 21 05:58	0° Y	
				morning rise	15022 Apr 01 09:16	7° Y 11'28	
conjunction	15017 Oct 09 06:00	2° M 14'33	0°59'27		15022 May 07 07:52	0° B	
minimum elong	15017 Oct 09 02:25	2° M 07'28	0°59'52		15022 Jun 25 01:05	0° II	
max. Earth dist.	15017 Oct 12 22:37	5° M 10'32	2.36141 AU		15022 Aug 15 01:26	0° E	
	15017 Nov 13 07:26	0° J			15022 Oct 11 04:30	0° O	
morning rise	15017 Dec 22 12:02	0° Z 21'54		retrograde	15022 Dec 15 17:58	18° O 39'34	
	15017 Dec 22 00:31	0° Z		opposition	15023 Jan 18 22:38	11° O 46'35	-1°55'33
	15018 Jan 31 09:05	0° \approx		greatest brilliancy	15023 Jan 19 16:19	11° O 31'18	-2.3m
	15018 Mar 15 02:56	0° H		min. Earth dist.	15023 Jan 27 16:10	8° O 45'52	0.48014 AU
desc. node	15018 Apr 29 15:55	29° H 43'36		asc. node	15023 Feb 21 07:24	3° O 26'37	
	15018 Apr 30 02:25	0° Y		direct	15023 Feb 25 10:04	3° O 19'22	
	15018 Jun 20 10:14	0° B			15023 May 07 22:24	0° M	
	15018 Sep 05 06:25	0° II			15023 Jun 21 08:18	0° E	
retrograde	15018 Sep 18 19:58	1° II 03'29			15023 Jul 31 21:20	0° M	
	15018 Oct 01 19:36	30° R B			15023 Sep 09 22:43	0° J	
opposition	15018 Oct 29 01:04	21° B 39'26	-4°46'06		15023 Oct 20 22:50	0° Z	
greatest brilliancy	15018 Oct 29 09:14	21° B 31'25	-1.3m		15023 Dec 02 13:54	0° \approx	
min. Earth dist.	15018 Oct 31 08:28	20° B 45'10	0.67781 AU	desc. node	15023 Dec 19 11:10	11° \approx 32'30	
direct	15018 Dec 09 16:30	11° B 39'01			15024 Jan 16 00:07	0° H	
	15019 Feb 11 19:13	0° II		evening set	15024 Feb 05 08:25	13° H 23'07	
	15019 Apr 06 08:04	0° E			15024 Mar 01 23:25	0° Y	
asc. node	15019 May 18 16:40	28° E 08'36					
	15019 May 21 08:13	0° O		conjunction	15024 Mar 22 17:24	13° Y 18'03	-0°49'33
	15019 Jul 01 10:14	0° M		minimum elong	15024 Mar 22 16:08	13° Y 16'02	0°49'40
	15019 Aug 09 07:43	0° E		max. Earth dist.	15024 Mar 29 19:12	17° Y 48'43	2.67328 AU
	15019 Sep 16 05:52	0° M			15024 Apr 17 23:45	0° B	

morning rise	15024 May 05 10:39	11°♄02'27	desc. node	15029 Aug 11 06:34	25°♊46'26	
	15024 Jun 04 12:12	0°♈	direct	15029 Sep 11 15:18	19°♊33'59	
	15024 Jul 22 04:24	0°♉		15029 Oct 28 04:54	0°♊	
	15024 Sep 08 00:30	0°♊		15029 Dec 29 15:22	0°♋	
	15024 Oct 26 14:11	0°♋		15030 Feb 20 00:35	0°♌	
	15024 Dec 17 10:01	0°♌		15030 Apr 09 17:02	0°♍	
asc. node	15025 Jan 08 14:15	11°♌03'56	evening set	15030 May 24 06:23	29°♍04'59	
retrograde	15025 Feb 28 02:07	24°♌30'32		15030 May 25 15:10	0°♎	
opposition	15025 Mar 29 12:04	19°♌39'01 5°32'10	max. Earth dist.	15030 Jun 09 15:56	10°♎11'41	2.53711 AU
greatest brilliancy	15025 Mar 29 19:24	19°♌34'08 -3.0m		15030 Jul 08 02:04	0°♏	
min. Earth dist.	15025 Mar 31 15:14	19°♌04'52 0.36674 AU				
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	15025 Jun 19 13:43	0°♍	minimum elong	15030 Jul 12 12:10	3°♏08'37 0°32'50	
	15025 Aug 09 14:02	0°♎		15030 Aug 18 08:53	0°♏	
	15025 Sep 24 16:06	0°♏	asc. node	15030 Aug 30 20:18	9°♏20'17	
desc. node	15025 Nov 05 12:26	27°♏23'16	morning rise	15030 Sep 06 12:06	14°♏22'16	
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	15025 Dec 26 03:14	0°♑		15030 Nov 04 09:57	0°♑	
	15026 Feb 11 10:31	0°♒		15030 Dec 12 14:32	0°♑	
evening set	15026 Mar 13 20:18	19°♒10'38		15031 Jan 20 11:25	0°♒	
	15026 Mar 30 23:46	0°♓		15031 Mar 02 04:38	0°♓	
max. Earth dist.	15026 Apr 20 23:36	13°♓17'31 2.68179 AU		15031 Apr 15 12:46	0°♓	
				15031 Jun 07 16:43	0°♔	
conjunction	15026 Apr 26 15:26	16°♓53'18 -1°10'49	desc. node	15031 Jun 29 11:14	9°♔00'25	
minimum elong	15026 Apr 26 14:54	16°♓52'26 1°11'27	retrograde	15031 Aug 03 05:59	15°♔40'20	
	15026 May 17 04:42	0°♈	min. Earth dist.	15031 Sep 09 23:09	6°♔54'22 0.66016 AU	
morning rise	15026 Jun 08 19:52	14°♈33'50	opposition	15031 Sep 13 01:09	5°♔41'09 -2°48'49	
	15026 Jul 02 13:06	0°♉	greatest brilliancy	15031 Sep 12 16:23	5°♔49'50 -1.4m	
	15026 Aug 16 17:43	0°♊		15031 Sep 28 19:31	30°♔	
	15026 Sep 29 15:22	0°♋	direct	15031 Oct 22 22:40	26°♔20'31	
	15026 Nov 11 07:55	0°♌		15031 Nov 18 05:41	0°♔	
asc. node	15026 Nov 26 13:34	10°♌52'02		15032 Jan 27 17:47	0°♕	
	15026 Dec 23 06:44	0°♍		15032 Mar 19 20:13	0°♈	
	15027 Feb 03 23:28	0°♎		15032 May 05 16:20	0°♉	
	15027 Mar 24 22:52	0°♏		15032 Jun 18 02:23	0°♊	
retrograde	15027 May 12 03:50	14°♏11'14	evening set	15032 Jul 08 22:19	15°♊05'38	
min. Earth dist.	15027 Jun 07 23:41	9°♏15'44 0.43271 AU	asc. node	15032 Jul 17 10:02	21°♊22'04	
greatest brilliancy	15027 Jun 14 17:35	7°♏00'51 -2.5m	max. Earth dist.	15032 Jul 26 04:48	27°♊55'44 2.40135 AU	
opposition	15027 Jun 16 03:15	6°♏32'36 5°10'12		15032 Jul 28 22:54	0°♋	
direct	15027 Jul 17 22:43	0°♏18'43		15032 Sep 06 00:01	0°♌	
desc. node	15027 Sep 23 21:05	21°♏12'09				
	15027 Oct 11 02:02	0°♐	conjunction	15032 Sep 08 18:54	2°♌10'44 0°35'59	
	15027 Dec 03 09:46	0°♑	minimum elong	15032 Sep 08 15:47	2°♌04'38 0°35'52	
	15028 Jan 22 17:39	0°♒		15032 Oct 14 01:02	0°♍	
	15028 Mar 11 15:38	0°♓		15032 Nov 20 22:54	0°♎	
evening set	15028 Apr 16 20:44	22°♓46'26	morning rise	15032 Nov 21 10:16	0°♎22'21	
	15028 Apr 28 04:01	0°♈		15032 Dec 29 15:06	0°♏	
max. Earth dist.	15028 May 12 18:12	9°♈25'25 2.63548 AU		15033 Feb 07 22:39	0°♐	
				15033 Mar 22 19:11	0°♑	
conjunction	15028 May 31 07:21	21°♈33'57 -1°07'06		15033 May 08 11:35	0°♒	
minimum elong	15028 May 31 08:15	21°♈35'26 1°08'03	desc. node	15033 May 16 09:06	4°♒44'26	
	15028 Jun 13 00:18	0°♉		15033 Jul 02 02:40	0°♓	
morning rise	15028 Jul 16 15:07	22°♉48'10	retrograde	15033 Sep 05 06:37	18°♓38'55	
	15028 Jul 27 00:22	0°♊	opposition	15033 Oct 15 21:52	9°♓00'37 -4°27'15	
	15028 Sep 07 04:17	0°♋	greatest brilliancy	15033 Oct 15 23:31	8°♓59'00 -1.2m	
asc. node	15028 Oct 13 07:13	26°♋40'36	min. Earth dist.	15033 Oct 16 16:45	8°♓42'03 0.68618 AU	
	15028 Oct 17 17:23	0°♌		15033 Nov 14 09:23	30°♓	
	15028 Nov 26 02:50	0°♍	direct	15033 Nov 26 08:33	29°♔06'23	
	15029 Jan 04 04:01	0°♎		15033 Dec 08 18:50	0°♕	
	15029 Feb 13 03:25	0°♏		15034 Feb 23 22:28	0°♈	
	15029 Mar 28 09:16	0°♐		15034 Apr 15 01:21	0°♉	
	15029 May 23 02:11	0°♑		15034 May 29 06:46	0°♊	
retrograde	15029 Jun 27 10:41	7°♑32'13	asc. node	15034 Jun 04 06:41	4°♊16'38	
min. Earth dist.	15029 Jul 30 02:46	0°♑25'11 0.56884 AU		15034 Jul 09 04:02	0°♋	
	15029 Jul 31 05:09	30°♑		15034 Aug 17 00:45	0°♌	
opposition	15029 Aug 05 20:13	27°♑49'23 0°15'00	evening set	15034 Sep 15 01:48	22°♌57'46	
greatest brilliancy	15029 Aug 05 18:46	27°♑50'48 -1.8m		15034 Sep 23 22:21	0°♍	



































































































































	15034 Oct 31 20:27	0°♊			15039 Jul 31 04:08	0°♎	
conjunction	15034 Nov 26 22:50	20°♊16'42	1°03'35		15039 Sep 19 01:07	0°♏	
minimum elong	15034 Nov 27 01:04	20°♊20'58	1°04'31	asc. node	15039 Nov 11 17:58	0°♐	
	15034 Dec 09 16:28	0°♋		retrograde	15040 Jan 26 03:20	25°♐07'20	
max. Earth dist.	15035 Jan 17 08:28	28°♋40'55	2.43736 AU	opposition	15040 Jan 27 06:08	25°♐07'48	
	15035 Jan 19 04:11	0°♌		greatest brilliancy	15040 Feb 27 04:38	19°♐40'01	2°14'43
morning rise	15035 Jan 30 16:20	8°♌15'05		min. Earth dist.	15040 Feb 27 17:05	19°♐30'47	-2.8m
	15035 Mar 02 21:09	0°♍		direct	15040 Mar 04 21:14	17°♐41'33	0.39751 AU
desc. node	15035 Apr 03 00:11	20°♍47'27			15040 Mar 31 01:49	13°♐17'42	
	15035 Apr 17 05:54	0°♎			15040 May 23 13:10	0°♑	
	15035 Jun 05 01:03	0°♏			15040 Jul 10 18:30	0°♒	
	15035 Jul 30 11:14	0°♐			15040 Aug 23 00:59	0°♓	
retrograde	15035 Oct 11 11:09	21°♐45'51			15040 Oct 05 02:33	0°♈	
opposition	15035 Nov 19 14:54	12°♐50'53	-4°51'59	desc. node	15040 Nov 18 05:53	0°♉	
greatest brilliancy	15035 Nov 20 09:49	12°♐32'35	-1.4m		15040 Nov 22 01:39	2°♉33'21	
min. Earth dist.	15035 Nov 24 07:35	11°♐02'03	0.64385 AU		15041 Jan 02 18:15	0°♊	
direct	15035 Dec 31 01:44	2°♐49'57		evening set	15041 Feb 18 10:00	0°♋	
	15036 Mar 19 01:56	0°♌			15041 Feb 27 19:55	5°♋59'28	
asc. node	15036 Apr 21 11:33	20°♌17'57		max. Earth dist.	15041 Apr 06 16:26	0°♍	
	15036 May 06 01:24	0°♍			15041 Apr 12 08:53	3°♍36'09	2.68523 AU
	15036 Jun 16 23:44	0°♎		conjunction	15041 Apr 13 05:20	4°♍08'32	-1°05'20
	15036 Jul 26 04:43	0°♏		minimum elong	15041 Apr 13 04:23	4°♍07'02	1°05'47
	15036 Sep 02 07:34	0°♐			15041 May 23 22:36	0°♑	
	15036 Oct 10 13:04	0°♊		morning rise	15041 May 26 05:26	1°♑27'23	
	15036 Nov 18 19:53	0°♋			15041 Jul 09 16:43	0°♌	
evening set	15036 Nov 28 03:58	6°♋57'26			15041 Aug 24 16:14	0°♍	
	15036 Dec 29 19:59	0°♌			15041 Oct 08 19:02	0°♎	
					15041 Nov 22 06:08	0°♏	
conjunction	15037 Jan 25 12:49	18°♌46'03	0°13'55	asc. node	15041 Dec 13 07:23	14°♏12'42	
minimum elong	15037 Jan 25 13:36	18°♌47'25	0°14'39		15042 Jan 06 01:01	0°♐	
behind sun begin	15037 Jan 25 04:43	18°♌32'04			15042 Feb 24 18:06	0°♊	
behind sun end	15037 Jan 25 22:29	19°♌02'46		retrograde	15042 Apr 17 17:10	15°♊47'05	
	15037 Feb 10 22:03	0°♋		min. Earth dist.	15042 May 13 11:34	11°♊28'57	0.38623 AU
desc. node	15037 Feb 17 11:08	4°♋25'46		greatest brilliancy	15042 May 18 07:07	10°♊04'48	-2.8m
max. Earth dist.	15037 Feb 24 03:50	8°♋55'50	2.57012 AU	opposition	15042 May 19 15:49	9°♊40'45	6°53'36
morning rise	15037 Mar 17 09:29	22°♋59'43		direct	15042 Jun 18 11:15	4°♊25'18	
	15037 Mar 28 03:19	0°♌			15042 Sep 01 13:15	0°♋	
	15037 May 14 10:15	0°♍		desc. node	15042 Oct 10 06:56	21°♋53'01	
	15037 Jul 03 01:02	0°♎			15042 Oct 23 23:36	0°♌	
	15037 Aug 25 21:05	0°♏			15042 Dec 12 11:45	0°♊	
	15037 Nov 15 18:47	0°♐			15043 Jan 30 07:00	0°♋	
retrograde	15037 Nov 23 21:12	0°♐23'13			15043 Mar 19 13:03	0°♍	
	15037 Dec 01 19:02	30°♐45'04		evening set	15043 Apr 04 06:18	9°♍53'08	
opposition	15037 Dec 29 22:37	22°♐45'04	-3°25'33	max. Earth dist.	15043 May 04 17:32	29°♍16'09	2.66007 AU
greatest brilliancy	15037 Dec 31 01:12	22°♐20'49	-1.9m		15043 May 05 20:52	0°♑	
min. Earth dist.	15038 Jan 07 01:55	19°♐47'21	0.53573 AU				
direct	15038 Feb 07 05:56	13°♐29'37		conjunction	15043 May 18 01:08	7°♑51'04	-1°11'50
asc. node	15038 Mar 09 19:18	19°♐14'28		minimum elong	15043 May 18 01:28	7°♑51'35	1°12'42
	15038 Apr 03 08:16	0°♒			15043 Jun 20 20:34	0°♓	
	15038 May 22 03:21	0°♓		morning rise	15043 Jul 01 14:08	7°♓08'59	
	15038 Jul 02 11:38	0°♈			15043 Aug 04 06:02	0°♉	
	15038 Aug 10 18:18	0°♊			15043 Sep 15 23:22	0°♋	
	15038 Sep 18 23:10	0°♌			15043 Oct 27 03:52	0°♍	
	15038 Oct 29 05:48	0°♎		asc. node	15043 Oct 31 02:24	2°♍55'11	
	15038 Dec 10 05:27	0°♏			15043 Dec 06 05:21	0°♐	
desc. node	15039 Jan 05 02:45	17°♏50'35			15044 Jan 15 00:35	0°♊	
evening set	15039 Jan 19 20:34	27°♏48'13			15044 Feb 25 05:42	0°♋	
	15039 Jan 23 03:15	0°♌			15044 Apr 12 06:26	0°♌	
				retrograde	15044 Jun 10 22:03	19°♌37'27	
conjunction	15039 Mar 09 07:29	29°♌41'53	-0°35'26	min. Earth dist.	15044 Jul 11 05:27	13°♌20'16	0.51774 AU
minimum elong	15039 Mar 09 06:19	29°♌40'00	0°35'19	opposition	15044 Jul 19 02:20	10°♌24'00	1°57'20
	15039 Mar 09 18:42	0°♍		greatest brilliancy	15044 Jul 18 13:11	10°♌36'16	-2.1m
max. Earth dist.	15039 Mar 22 02:08	7°♍55'57	2.65492 AU	direct	15044 Aug 23 03:36	2°♍48'17	
morning rise	15039 Apr 23 03:17	28°♍21'19		desc. node	15044 Aug 27 16:31	2°♍55'58	
	15039 Apr 25 17:42	0°♎			15044 Nov 13 22:44	0°♊	
	15039 Jun 12 13:53	0°♐			15045 Jan 07 22:35	0°♋	

	15045 Feb 27 13:19	0°♄	minimum elong	15049 Oct 27 03:06	20°♄17'15	1°06'52
	15045 Apr 16 15:49	0°♂		15049 Nov 08 10:35	0°♄	
evening set	15045 May 09 02:58	14°♂31'10	max. Earth dist.	15049 Dec 16 22:17	29°♄49'20	2.38134 AU
max. Earth dist.	15045 May 28 19:02	27°♂31'13		15049 Dec 17 03:53	0°♄	
	15045 Jun 01 11:55	0°♄	morning rise	15050 Jan 06 20:29	15°♄34'07	
				15050 Jan 26 12:23	0°♄	
conjunction	15045 Jun 24 19:01	15°♄50'01 -0°49'49		15050 Mar 10 04:05	0°♄	
minimum elong	15045 Jun 24 20:37	15°♄52'46 0°50'46	desc. node	15050 Apr 19 18:06	26°♄47'16	
	15045 Jul 15 03:02	0°♂		15050 Apr 24 19:30	0°♄	
morning rise	15045 Aug 14 21:11	22°♂03'24		15050 Jun 13 21:23	0°♄	
	15045 Aug 25 17:01	0°♄		15050 Aug 15 08:54	0°♂	
asc. node	15045 Sep 16 15:21	16°♄21'21	retrograde	15050 Sep 26 19:28	8°♂45'54	
	15045 Oct 04 14:33	0°♄		15050 Nov 04 11:38	30°♄	
	15045 Nov 12 09:04	0°♄	opposition	15050 Nov 05 17:15	29°♄31'10 -4°52'06	
	15045 Dec 20 19:23	0°♄	greatest brilliancy	15050 Nov 06 05:22	29°♄19'21 -1.3m	
	15046 Jan 28 22:17	0°♄	min. Earth dist.	15050 Nov 08 21:31	28°♄16'47 0.66850 AU	
	15046 Mar 11 03:29	0°♄	direct	15050 Dec 17 08:52	19°♄29'01	
	15046 Apr 26 02:59	0°♄		15051 Feb 01 07:20	0°♂	
	15046 Jul 02 15:00	0°♄		15051 Mar 31 02:10	0°♄	
desc. node	15046 Jul 16 01:10	1°♄52'09	asc. node	15051 May 08 23:53	25°♄13'11	
retrograde	15046 Jul 20 13:55	2°♄00'13		15051 May 15 22:05	0°♂	
	15046 Aug 06 16:59	30°♄		15051 Jun 26 06:17	0°♄	
min. Earth dist.	15046 Aug 25 11:21	23°♄48'54 0.63157 AU		15051 Aug 04 06:10	0°♄	
opposition	15046 Aug 30 00:44	22°♄01'06 -1°49'36		15051 Sep 11 05:48	0°♄	
greatest brilliancy	15046 Aug 29 16:25	22°♄09'19 -1.5m		15051 Oct 19 07:15	0°♄	
direct	15046 Oct 07 21:32	13°♄01'18	evening set	15051 Nov 02 08:04	10°♄54'00	
	15046 Dec 09 19:28	0°♄		15051 Nov 27 08:33	0°♄	
	15047 Feb 06 04:25	0°♄				
	15047 Mar 28 12:09	0°♂	conjunction	15052 Jan 05 21:08	29°♄07'20 0°35'51	
	15047 May 13 20:59	0°♄	minimum elong	15052 Jan 05 23:18	29°♄11'14 0°36'44	
evening set	15047 Jun 19 23:38	25°♄32'35		15052 Jan 07 02:25	0°♄	
	15047 Jun 26 06:24	0°♂	max. Earth dist.	15052 Feb 12 16:03	25°♄41'32 2.52275 AU	
max. Earth dist.	15047 Jul 03 11:52	5°♂10'37 2.45618 AU		15052 Feb 18 23:07	0°♄	
asc. node	15047 Aug 04 04:48	28°♂27'26	morning rise	15052 Feb 29 23:17	7°♄27'16	
	15047 Aug 06 06:13	0°♄	desc. node	15052 Mar 06 06:41	11°♄00'59	
				15052 Apr 04 03:15	0°♄	
conjunction	15047 Aug 14 15:16	6°♄18'43 0°07'17		15052 May 21 18:50	0°♄	
minimum elong	15047 Aug 14 14:45	6°♄17'44 0°06'46		15052 Jul 11 18:42	0°♂	
behind sun begin	15047 Aug 13 15:09	5°♄33'07		15052 Sep 09 04:58	0°♄	
behind sun end	15047 Aug 15 14:21	7°♄02'23	retrograde	15052 Nov 05 00:02	14°♄23'18	
	15047 Sep 14 11:30	0°♄	opposition	15052 Dec 12 12:30	6°♄09'23 -4°18'10	
morning rise	15047 Oct 20 21:12	28°♄35'49	greatest brilliancy	15052 Dec 13 15:17	5°♄44'09 -1.7m	
	15047 Oct 22 15:47	0°♄	min. Earth dist.	15052 Dec 19 11:36	3°♄32'16 0.58520 AU	
	15047 Nov 29 15:11	0°♄		15052 Dec 29 21:18	30°♄	
	15048 Jan 07 07:43	0°♄	direct	15053 Jan 22 00:27	26°♄25'54	
	15048 Feb 16 16:22	0°♄		15053 Feb 15 05:24	0°♄	
	15048 Mar 30 19:56	0°♄	asc. node	15053 Mar 26 08:12	16°♄27'14	
	15048 May 17 18:44	0°♄		15053 Apr 18 17:01	0°♂	
desc. node	15048 Jun 02 01:35	8°♄33'39		15053 Jun 02 00:30	0°♄	
	15048 Jul 19 16:39	0°♄		15053 Jul 12 02:06	0°♄	
retrograde	15048 Aug 23 01:05	6°♄15'09		15053 Aug 19 16:57	0°♄	
	15048 Sep 23 15:38	30°♄		15053 Sep 27 09:17	0°♄	
opposition	15048 Oct 02 21:35	26°♄26'01 -3°57'48		15053 Nov 06 03:51	0°♄	
min. Earth dist.	15048 Oct 02 04:01	26°♄43'22 0.68406 AU		15053 Dec 17 16:08	0°♄	
greatest brilliancy	15048 Oct 02 17:44	26°♄29'49 -1.2m	evening set	15054 Jan 01 12:49	10°♄24'20	
direct	15048 Nov 12 21:38	16°♄41'59	desc. node	15054 Jan 21 19:17	24°♄19'48	
	15049 Jan 06 00:37	0°♄		15054 Jan 30 04:18	0°♄	
	15049 Mar 05 17:53	0°♂				
	15049 Apr 23 02:30	0°♄	conjunction	15054 Feb 21 22:34	15°♄11'01 -0°18'19	
	15049 Jun 05 21:35	0°♂	minimum elong	15054 Feb 21 21:50	15°♄09'48 0°17'57	
asc. node	15049 Jun 20 22:37	10°♂50'46	max. Earth dist.	15054 Mar 12 17:39	27°♄29'57 2.62825 AU	
	15049 Jul 16 17:29	0°♄		15054 Mar 16 14:03	0°♄	
evening set	15049 Aug 16 06:53	23°♄28'27	morning rise	15054 Apr 09 11:33	15°♄22'10	
	15049 Aug 24 15:15	0°♄		15054 May 02 13:43	0°♄	
	15049 Oct 01 13:32	0°♄		15054 Jun 19 21:22	0°♂	
				15054 Aug 08 19:37	0°♄	
conjunction	15049 Oct 27 04:41	20°♄20'23 1°06'12		15054 Oct 01 05:50	0°♂	

	15054 Dec 17 17:16	0°♎			15060 Mar 06 18:57	0°♎	
retrograde	15054 Dec 29 16:48	0°♎51'15			15060 Apr 23 11:52	0°♎	
	15055 Jan 10 05:26	30°♎♎		evening set	15060 Apr 24 19:14	0°♎50'16	
opposition	15055 Jan 31 17:51	24°♎26'58 -0°41'13		max. Earth dist.	15060 May 18 09:40	16°♎08'25	2.61842 AU
greatest brilliancy	15055 Feb 01 00:34	24°♎21'23 -2.5m					
min. Earth dist.	15055 Feb 09 06:42	21°♎37'35 0.44899 AU		conjunction	15060 Jun 08 20:16	0°♎20'01 -1°02'14	
asc. node	15055 Feb 11 16:47	20°♎52'06		minimum elong	15060 Jun 08 21:29	0°♎22'03	1°03'12
direct	15055 Mar 08 20:00	16°♎37'11			15060 Jun 08 08:17	0°♎	
	15055 Apr 25 00:22	0°♎			15060 Jul 22 05:29	0°♎	
	15055 Jun 13 04:18	0°♎		morning rise	15060 Jul 26 12:55	3°♎01'14	
	15055 Jul 25 01:50	0°♎			15060 Sep 02 04:42	0°♎	
	15055 Sep 03 20:36	0°♎		asc. node	15060 Oct 03 12:05	23°♎12'27	
	15055 Oct 15 08:58	0°♎			15060 Oct 12 12:10	0°♎	
	15055 Nov 27 09:43	0°♎			15060 Nov 20 15:51	0°♎	
desc. node	15055 Dec 09 14:33	8°♎17'47			15060 Dec 29 10:22	0°♎	
	15056 Jan 11 03:04	0°♎			15061 Feb 06 23:25	0°♎	
evening set	15056 Feb 14 04:06	22°♎11'42			15061 Mar 21 03:33	0°♎	
	15056 Feb 26 07:00	0°♎			15061 May 09 21:53	0°♎	
				retrograde	15061 Jul 06 03:56	17°♎11'28	
conjunction	15056 Mar 30 16:04	21°♎18'35 -0°56'23		desc. node	15061 Aug 01 12:26	12°♎25'07	
minimum elong	15056 Mar 30 14:51	21°♎16'40 0°56'38		min. Earth dist.	15061 Aug 09 00:51	9°♎39'49	0.59359 AU
max. Earth dist.	15056 Apr 03 19:51	23°♎57'03 2.67995 AU		opposition	15061 Aug 15 00:28	7°♎19'45 -0°35'42	
	15056 Apr 13 08:44	0°♎		greatest brilliancy	15061 Aug 14 20:54	7°♎23'14 -1.7m	
morning rise	15056 May 12 23:44	18°♎45'21			15061 Sep 07 19:23	30°♎	
	15056 May 30 18:09	0°♎		direct	15061 Sep 21 15:01	28°♎46'25	
	15056 Jul 17 01:15	0°♎			15061 Oct 06 04:06	0°♎	
	15056 Sep 02 02:19	0°♎			15061 Dec 22 15:37	0°♎	
	15056 Oct 19 01:48	0°♎			15062 Feb 14 15:03	0°♎	
	15056 Dec 05 22:47	0°♎			15062 Apr 04 19:49	0°♎	
asc. node	15056 Dec 29 21:32	14°♎12'43			15062 May 20 21:44	0°♎	
	15057 Jan 28 19:55	0°♎		evening set	15062 Jun 02 11:21	8°♎30'15	
retrograde	15057 Mar 18 14:05	13°♎16'24		max. Earth dist.	15062 Jun 17 07:51	18°♎44'18	2.50948 AU
min. Earth dist.	15057 Apr 16 01:47	8°♎38'06 0.36410 AU			15062 Jul 03 08:23	0°♎	
opposition	15057 Apr 17 08:01	8°♎18'00 6°47'48					
greatest brilliancy	15057 Apr 16 23:41	8°♎23'32 -3.0m		conjunction	15062 Jul 23 13:26	14°♎32'08 -0°19'06	
direct	15057 May 16 10:42	3°♎28'33		minimum elong	15062 Jul 23 14:35	14°♎34'12	0°19'51
	15057 Jul 29 11:24	0°♎			15062 Aug 13 13:01	0°♎	
	15057 Sep 17 02:38	0°♎		asc. node	15062 Aug 20 23:35	5°♎34'18	
desc. node	15057 Oct 26 18:50	25°♎07'33		morning rise	15062 Sep 21 05:00	29°♎23'32	
	15057 Nov 03 10:59	0°♎			15062 Sep 21 23:52	0°♎	
	15057 Dec 20 20:04	0°♎			15062 Oct 30 08:52	0°♎	
	15058 Feb 06 13:48	0°♎			15062 Dec 07 11:20	0°♎	
evening set	15058 Mar 21 16:25	27°♎04'06			15063 Jan 15 05:45	0°♎	
	15058 Mar 26 08:05	0°♎			15063 Feb 24 18:04	0°♎	
max. Earth dist.	15058 Apr 26 00:18	19°♎25'22 2.67643 AU			15063 Apr 09 11:05	0°♎	
					15063 May 29 19:30	0°♎	
conjunction	15058 May 04 08:12	24°♎44'05 -1°12'22		desc. node	15063 Jun 19 16:53	10°♎11'18	
minimum elong	15058 May 04 07:58	24°♎43'42 1°13'07		retrograde	15063 Aug 10 20:46	23°♎36'25	
	15058 May 12 13:41	0°♎		min. Earth dist.	15063 Sep 18 11:40	14°♎33'04	0.67150 AU
morning rise	15058 Jun 16 20:16	22°♎49'24		opposition	15063 Sep 20 17:32	13°♎39'46 -3°17'43	
	15058 Jun 27 18:54	0°♎		greatest brilliancy	15063 Sep 20 09:50	13°♎47'23 -1.3m	
	15058 Aug 11 16:14	0°♎		direct	15063 Oct 31 01:32	4°♎09'39	
	15058 Sep 24 02:41	0°♎			15064 Jan 20 14:05	0°♎	
	15058 Nov 05 04:01	0°♎			15064 Mar 14 09:46	0°♎	
asc. node	15058 Nov 16 20:24	8°♎28'50			15064 Apr 30 17:35	0°♎	
	15058 Dec 16 06:04	0°♎			15064 Jun 13 06:57	0°♎	
	15059 Jan 26 10:55	0°♎		asc. node	15064 Jul 07 16:11	17°♎42'27	
	15059 Mar 11 16:33	0°♎		evening set	15064 Jul 21 14:39	28°♎05'36	
retrograde	15059 May 24 02:54	28°♎29'18			15064 Jul 24 03:25	0°♎	
min. Earth dist.	15059 Jun 21 02:02	23°♎05'35 0.46280 AU		max. Earth dist.	15064 Aug 19 01:50	19°♎49'52	2.37402 AU
greatest brilliancy	15059 Jun 28 08:11	20°♎32'42 -2.4m			15064 Sep 01 03:17	0°♎	
opposition	15059 Jun 29 11:32	20°♎08'36 3°58'06					
direct	15059 Aug 01 11:15	13°♎22'53		conjunction	15064 Sep 25 11:31	19°♎10'31	0°50'43
desc. node	15059 Sep 14 03:48	23°♎11'13		minimum elong	15064 Sep 25 07:33	19°♎02'40	0°50'54
	15059 Sep 30 04:40	0°♎			15064 Oct 09 03:07	0°♎	
	15059 Nov 26 18:27	0°♎			15064 Nov 16 00:13	0°♎	
	15060 Jan 17 08:33	0°♎		morning rise	15064 Dec 09 09:41	18°♎16'08	

	15064 Dec 24 16:00	0°♄			15070 Jan 20 03:47	30°♄♄	
	15065 Feb 02 22:50	0°♁	direct		15070 Feb 17 05:53	24°♄45'55	
	15065 Mar 17 15:47	0°♂	asc. node		15070 Feb 28 04:21	25°♄35'29	
	15065 May 02 19:21	0°♂			15070 Mar 17 22:05	0°♂	
desc. node	15065 May 06 12:15	2°♂17'04			15070 May 14 01:35	0°♄	
	15065 Jun 24 02:16	0°♂			15070 Jun 25 20:03	0°♂	
retrograde	15065 Sep 12 22:48	26°♂13'43			15070 Aug 04 17:27	0°♄	
opposition	15065 Oct 23 09:19	16°♂42'59 -4°39'39			15070 Sep 13 08:04	0°♂	
greatest brilliancy	15065 Oct 23 14:32	16°♂37'51 -1.2m			15070 Oct 23 22:36	0°♄	
min. Earth dist.	15065 Oct 25 00:45	16°♂04'15 0.68294 AU			15070 Dec 05 05:16	0°♁	
direct	15065 Dec 03 23:15	6°♂44'42	desc. node		15070 Dec 26 06:54	14°♁28'37	
	15066 Feb 16 10:46	0°♂			15071 Jan 18 08:24	0°♂	
	15066 Apr 09 10:14	0°♄	evening set		15071 Jan 29 10:01	7°♂20'29	
	15066 May 24 03:35	0°♂			15071 Mar 05 03:07	0°♂	
asc. node	15066 May 25 15:13	1°♂02'53					
	15066 Jul 04 04:38	0°♄	conjunction		15071 Mar 17 15:02	8°♂02'42 -0°44'05	
	15066 Aug 12 02:21	0°♂	minimum elong		15071 Mar 17 13:46	8°♂00'40 0°44'06	
	15066 Sep 19 00:22	0°♄	max. Earth dist.		15071 Mar 27 06:07	14°♂12'32 2.66606 AU	
evening set	15066 Oct 02 17:40	10°♄53'33			15071 Apr 21 01:59	0°♂	
	15066 Oct 26 22:56	0°♂	morning rise		15071 Apr 30 18:32	6°♂07'41	
	15066 Dec 04 19:43	0°♄			15071 Jun 07 17:09	0°♂	
					15071 Jul 25 18:09	0°♄	
conjunction	15066 Dec 12 14:02	5°♄51'23 0°55'35			15071 Sep 12 08:49	0°♂	
minimum elong	15066 Dec 12 16:58	5°♄56'55 0°56'32			15071 Nov 01 15:28	0°♄	
	15067 Jan 14 08:25	0°♁			15071 Dec 29 13:03	0°♂	
max. Earth dist.	15067 Jan 28 10:26	10°♁04'47 2.46885 AU	asc. node		15072 Jan 16 12:12	6°♂39'06	
morning rise	15067 Feb 11 11:40	19°♁57'10	retrograde		15072 Feb 14 08:39	11°♂27'05	
	15067 Feb 26 01:12	0°♂	opposition		15072 Mar 15 04:32	6°♂24'56 4°10'07	
desc. node	15067 Mar 24 00:42	17°♂27'10	greatest brilliancy		15072 Mar 15 18:34	6°♂15'14 -2.9m	
	15067 Apr 12 06:28	0°♂	min. Earth dist.		15072 Mar 19 17:30	5°♂09'38 0.37693 AU	
	15067 May 30 12:01	0°♂	direct		15072 Apr 15 07:09	0°♂50'16	
	15067 Jul 22 17:25	0°♂			15072 Jun 29 23:45	0°♄	
	15067 Oct 18 23:45	0°♄			15072 Aug 15 05:58	0°♂	
retrograde	15067 Oct 20 07:08	0°♄00'37			15072 Sep 28 16:25	0°♄	
	15067 Oct 21 14:23	30°♄♂	desc. node		15072 Nov 12 06:28	29°♄45'07	
opposition	15067 Nov 27 22:55	21°♂18'46 -4°44'55			15072 Nov 12 15:30	0°♁	
greatest brilliancy	15067 Nov 28 21:17	20°♂57'17 -1.5m			15072 Dec 28 16:22	0°♂	
min. Earth dist.	15067 Dec 03 11:46	19°♂11'24 0.62573 AU			15073 Feb 13 15:49	0°♂	
direct	15068 Jan 08 04:08	11°♂21'26	evening set		15073 Mar 07 21:26	14°♂04'47	
	15068 Mar 10 08:30	0°♄			15073 Apr 02 01:37	0°♂	
asc. node	15068 Apr 11 19:54	18°♄25'31	max. Earth dist.		15073 Apr 17 07:36	9°♂39'24 2.68437 AU	
	15068 Apr 29 20:10	0°♂					
	15068 Jun 11 10:04	0°♄	conjunction		15073 Apr 20 21:32	11°♂55'39 -1°09'01	
	15068 Jul 20 21:02	0°♂	minimum elong		15073 Apr 20 20:48	11°♂54'29 1°09'36	
	15068 Aug 28 03:25	0°♄			15073 May 19 07:03	0°♂	
	15068 Oct 05 11:52	0°♂	morning rise		15073 Jun 02 22:44	9°♂23'07	
	15068 Nov 13 21:36	0°♄			15073 Jul 04 20:00	0°♄	
evening set	15068 Dec 11 11:25	20°♄16'21			15073 Aug 19 08:53	0°♂	
	15068 Dec 25 00:41	0°♁			15073 Oct 02 18:57	0°♄	
					15073 Nov 15 04:12	0°♂	
conjunction	15069 Feb 05 00:14	29°♁11'27 0°01'35	asc. node		15073 Dec 03 12:55	12°♂50'14	
minimum elong	15069 Feb 05 00:21	29°♁11'38 0°02'10			15073 Dec 28 02:48	0°♄	
behind sun begin	15069 Feb 04 02:55	28°♁35'15			15074 Feb 10 16:23	0°♂	
behind sun end	15069 Feb 05 21:46	29°♁47'59			15074 Apr 11 22:07	0°♄	
	15069 Feb 06 04:51	0°♂	retrograde		15074 May 02 00:31	2°♄50'48	
desc. node	15069 Feb 07 13:26	0°♂55'14			15074 May 22 02:37	30°♄♂	
max. Earth dist.	15069 Mar 02 12:17	16°♂17'14 2.59284 AU	min. Earth dist.		15074 May 28 03:58	28°♂15'38 0.41002 AU	
	15069 Mar 23 10:20	0°♂	greatest brilliancy		15074 Jun 03 05:45	26°♂20'36 -2.7m	
morning rise	15069 Mar 26 01:51	1°♂43'02	opposition		15074 Jun 04 17:27	25°♂52'10 6°02'13	
	15069 May 09 12:55	0°♂	direct		15074 Jul 05 14:24	20°♂05'17	
	15069 Jun 27 13:28	0°♂			15074 Aug 17 13:39	0°♄	
	15069 Aug 18 13:07	0°♄	desc. node		15074 Sep 30 14:01	21°♄19'39	
	15069 Oct 19 01:30	0°♂			15074 Oct 16 05:52	0°♁	
retrograde	15069 Dec 05 19:28	10°♂52'16			15074 Dec 06 14:28	0°♂	
opposition	15070 Jan 09 20:37	3°♂37'53 -2°39'11			15075 Jan 25 04:47	0°♂	
greatest brilliancy	15070 Jan 10 19:27	3°♂17'34 -2.1m					
min. Earth dist.	15070 Jan 18 09:59	0°♂35'39 0.50544 AU	evening set		15075 Mar 14 19:32	0°♂	
					15075 Apr 11 23:58	17°♂43'00	

	15075 May 01 06:16	0°♐			15080 Jan 02 07:35	0°♊		
max. Earth dist.	15075 May 09 22:53	5°♐35'41	2.64745 AU		15080 Feb 11 13:59	0°♋		
					15080 Mar 25 10:57	0°♌		
conjunction	15075 May 26 01:49	16°♐04'10	-1°09'40		15080 May 11 11:21	0°♍		
minimum elong	15075 May 26 02:28	16°♐05'15	1°10'35	desc. node	15080 May 23 04:25	6°♍52'46		
	15075 Jun 16 04:52	0°♎			15080 Jul 07 04:46	0°♎		
morning rise	15075 Jul 10 12:17	16°♎20'49		retrograde	15080 Aug 30 14:23	13°♎52'59		
	15075 Jul 30 09:46	0°♏		opposition	15080 Oct 10 08:33	4°♎09'30	-4°16'32	
	15075 Sep 10 20:17	0°♐		greatest brilliancy	15080 Oct 10 07:37	4°♎10'25	-1.2m	
asc. node	15075 Oct 21 07:17	29°♐43'04		min. Earth dist.	15080 Oct 10 11:29	4°♎06'36	0.68657 AU	
	15075 Oct 21 16:21	0°♑			15080 Oct 21 06:27	30°♎♊		
	15075 Nov 30 08:40	0°♒		direct	15080 Nov 20 14:45	24°♎19'13		
	15076 Jan 08 16:30	0°♑			15080 Dec 23 21:30	0°♎		
	15076 Feb 18 01:10	0°♊			15081 Feb 27 10:00	0°♐		
	15076 Apr 02 08:04	0°♋			15081 Apr 17 19:29	0°♌		
	15076 Jun 11 04:43	0°♌			15081 May 31 21:49	0°♏		
retrograde	15076 Jun 20 13:22	0°♌36'21		asc. node	15081 Jun 11 05:22	7°♏23'00		
	15076 Jun 29 17:25	30°♌♋			15081 Jul 11 19:43	0°♐		
min. Earth dist.	15076 Jul 22 04:23	23°♋50'43	0.54692 AU		15081 Aug 19 17:30	0°♑		
opposition	15076 Jul 29 10:58	21°♋04'22	0°55'51	evening set	15081 Sep 01 14:11	10°♑07'30		
greatest brilliancy	15076 Jul 29 05:06	21°♋09'58	-1.9m		15081 Sep 26 15:36	0°♒		
desc. node	15076 Aug 17 23:50	14°♋52'18			15081 Nov 03 12:55	0°♑		
direct	15076 Sep 03 12:32	13°♋05'19						
	15076 Nov 04 08:00	0°♌		conjunction	15081 Nov 13 20:19	8°♑04'29	1°06'52	
	15077 Jan 01 20:42	0°♍		minimum elong	15081 Nov 13 21:12	8°♑06'12	1°07'43	
	15077 Feb 22 10:48	0°♎			15081 Dec 12 06:48	0°♊		
	15077 Apr 11 21:52	0°♐		max. Earth dist.	15082 Jan 06 12:02	18°♊54'35	2.41161 AU	
evening set	15077 May 17 14:06	23°♐09'35		morning rise	15082 Jan 20 19:30	29°♊23'14		
	15077 May 27 20:23	0°♑			15082 Jan 21 15:47	0°♋		
max. Earth dist.	15077 Jun 04 07:34	5°♑01'50	2.55785 AU		15082 Mar 05 06:26	0°♌		
				desc. node	15082 Apr 09 20:43	23°♌42'12		
conjunction	15077 Jul 04 12:16	25°♑50'04	-0°40'16		15082 Apr 19 15:42	0°♍		
minimum elong	15077 Jul 04 13:55	25°♑52'57	0°41'10		15082 Jun 07 19:38	0°♎		
	15077 Jul 10 10:18	0°♏			15082 Aug 04 04:40	0°♐		
	15077 Aug 20 21:21	0°♐		retrograde	15082 Oct 05 00:59	16°♐37'57		
morning rise	15077 Aug 27 03:12	4°♐38'19		opposition	15082 Nov 13 13:41	7°♐33'42	-4°53'37	
asc. node	15077 Sep 06 20:54	12°♐41'04		greatest brilliancy	15082 Nov 14 05:40	7°♐18'11	-1.3m	
	15077 Sep 29 15:03	0°♑		min. Earth dist.	15082 Nov 17 14:29	5°♐59'46	0.65618 AU	
	15077 Nov 07 05:47	0°♒			15082 Dec 05 13:07	30°♐♊		
	15077 Dec 15 12:27	0°♑		direct	15082 Dec 25 03:31	27°♐31'20		
	15078 Jan 23 10:37	0°♊			15083 Jan 14 20:06	0°♐		
	15078 Mar 05 06:34	0°♋			15083 Mar 24 06:26	0°♌		
	15078 Apr 19 01:12	0°♌		asc. node	15083 Apr 29 09:05	22°♌37'09		
	15078 Jun 14 02:20	0°♍			15083 May 10 06:52	0°♏		
desc. node	15078 Jul 06 05:37	7°♍29'22			15083 Jun 21 00:00	0°♐		
retrograde	15078 Jul 28 11:40	10°♍26'34			15083 Jul 30 03:08	0°♑		
min. Earth dist.	15078 Sep 03 10:05	1°♍55'05	0.64872 AU		15083 Sep 06 04:30	0°♒		
opposition	15078 Sep 07 03:30	0°♍26'41	-2°26'05		15083 Oct 14 07:38	0°♑		
greatest brilliancy	15078 Sep 06 18:24	0°♍35'42	-1.4m	evening set	15083 Nov 17 22:45	26°♑36'13		
	15078 Sep 08 06:31	30°♌♌			15083 Nov 22 10:51	0°♊		
direct	15078 Oct 16 14:11	21°♌14'37			15084 Jan 02 06:51	0°♋		
	15078 Nov 28 06:24	0°♍						
	15079 Jan 30 23:59	0°♎		conjunction	15084 Jan 17 22:27	11°♋06'59	0°23'15	
	15079 Mar 23 08:20	0°♐		minimum elong	15084 Jan 17 23:49	11°♋09'23	0°24'02	
	15079 May 09 01:03	0°♑			15084 Feb 14 05:03	0°♌		
	15079 Jun 21 12:14	0°♏		max. Earth dist.	15084 Feb 20 01:01	3°♌57'40	2.54984 AU	
evening set	15079 Jun 30 21:10	6°♏43'13		desc. node	15084 Feb 25 08:12	7°♌32'15		
max. Earth dist.	15079 Jul 15 06:52	17°♏13'09	2.42573 AU	morning rise	15084 Mar 10 12:19	16°♌59'53		
asc. node	15079 Jul 25 09:57	24°♏43'00			15084 Mar 30 08:17	0°♍		
	15079 Aug 01 11:29	0°♐			15084 May 16 17:05	0°♎		
					15084 Jul 05 18:53	0°♐		
conjunction	15079 Aug 28 18:31	20°♐47'51	0°23'41		15084 Aug 30 08:13	0°♑		
minimum elong	15079 Aug 28 16:31	20°♐44'00	0°23'23	retrograde	15084 Nov 15 09:43	23°♑45'11		
	15079 Sep 09 15:11	0°♑		opposition	15084 Dec 22 03:28	15°♑50'03	-3°51'14	
	15079 Oct 17 17:59	0°♒		greatest brilliancy	15084 Dec 23 06:49	15°♑24'41	-1.8m	
morning rise	15079 Nov 08 00:27	16°♒51'04		min. Earth dist.	15084 Dec 29 19:05	13°♑00'01	0.55885 AU	
	15079 Nov 24 16:16	0°♑		direct	15085 Jan 31 01:19	6°♑19'47		

asc. node	15085 Mar 16 16:27	17°  31'57	conjunction	15090 May 12 02:20	2°  38'59	-1°12'36
	15085 Apr 10 00:42	0°  Ω	minimum elong	15090 May 12 02:24	2°  39'06	1°13'25
	15085 May 26 11:02	0°  ♍		15090 Jun 23 02:06	0°  ♋	
	15085 Jul 06 04:36	0°  ♊	morning rise	15090 Jun 25 02:16	1°  ♋19'35	
	15085 Aug 14 03:26	0°  ♍		15090 Aug 06 17:26	0°  Ω	
	15085 Sep 22 01:44	0°  ♊		15090 Sep 18 18:56	0°  ♍	
	15085 Nov 01 01:29	0°  ♋		15090 Oct 30 08:37	0°  ♊	
	15085 Dec 12 18:31	0°  ♌	asc. node	15090 Nov 07 02:38	5°  ♊41'46	
desc. node	15086 Jan 11 22:36	20°  ♌52'04		15090 Dec 09 20:05	0°  ♍	
evening set	15086 Jan 12 04:20	21°  ♌01'49		15091 Jan 19 03:10	0°  ♊	
	15086 Jan 25 10:33	0°  ♋		15091 Mar 02 05:24	0°  ♋	
				15091 Apr 22 00:03	0°  ♌	
conjunction	15086 Mar 02 19:57	24°  ♋05'08	retrograde	15091 Jun 04 02:50	11°  ♌22'56	
minimum elong	15086 Mar 02 18:55	24°  ♋03'26	min. Earth dist.	15091 Jul 03 07:44	5°  ♌29'55	0.49330 AU
	15086 Mar 11 22:17	0°  ♍	opposition	15091 Jul 11 13:17	2°  ♌29'58	2°47'06
max. Earth dist.	15086 Mar 18 05:52	4°  ♍05'07	greatest brilliancy	15091 Jul 10 18:05	2°  ♌47'30	-2.2m
morning rise	15086 Apr 17 08:09	23°  ♍20'32		15091 Jul 18 16:33	30°  ♋♋	
	15086 Apr 27 20:32	0°  ♋	direct	15091 Aug 14 17:47	25°  ♋15'17	
	15086 Jun 14 20:49	0°  ♍	desc. node	15091 Sep 04 09:30	27°  ♋44'33	
	15086 Aug 02 23:03	0°  ♋		15091 Sep 13 00:20	0°  ♌	
	15086 Sep 23 01:33	0°  Ω		15091 Nov 19 10:39	0°  ♋	
	15086 Nov 20 03:27	0°  ♍		15092 Jan 11 18:39	0°  ♍	
retrograde	15087 Jan 14 02:29	14°  ♍25'27		15092 Mar 01 20:44	0°  ♋	
asc. node	15087 Feb 02 00:30	12°  ♍11'17		15092 Apr 18 19:45	0°  ♍	
opposition	15087 Feb 15 00:11	8°  ♍32'33	evening set	15092 May 02 21:04	9°  ♍02'37	
greatest brilliancy	15087 Feb 15 06:16	8°  ♍27'47	max. Earth dist.	15092 May 24 05:30	23°  ♍01'32	2.59892 AU
min. Earth dist.	15087 Feb 22 20:03	6°  ♍06'16		15092 Jun 03 17:03	0°  ♋	
direct	15087 Mar 21 08:59	1°  ♍29'29				
	15087 Jun 02 23:02	0°  ♊	conjunction	15092 Jun 17 17:15	9°  ♋26'41	-0°55'43
	15087 Jul 17 09:29	0°  ♍	minimum elong	15092 Jun 17 18:43	9°  ♋29'11	0°56'41
	15087 Aug 28 07:35	0°  ♊		15092 Jul 17 11:49	0°  Ω	
	15087 Oct 09 13:29	0°  ♋	morning rise	15092 Aug 06 03:03	13°  Ω55'31	
	15087 Nov 22 02:47	0°  ♌		15092 Aug 28 06:52	0°  ♍	
desc. node	15087 Nov 29 20:20	5°  ♌12'54	asc. node	15092 Sep 23 16:10	19°  ♍36'59	
	15088 Jan 06 05:04	0°  ♋		15092 Oct 07 09:24	0°  ♊	
	15088 Feb 21 14:34	0°  ♍		15092 Nov 15 08:08	0°  ♍	
evening set	15088 Feb 22 14:45	0°  ♍38'42		15092 Dec 23 21:43	0°  ♊	
				15093 Feb 01 03:32	0°  ♋	
conjunction	15088 Apr 07 10:10	29°  ♍09'08		15093 Mar 14 15:01	0°  ♌	
minimum elong	15088 Apr 07 09:05	29°  ♍07'25		15093 Apr 30 15:07	0°  ♋	
	15088 Apr 08 18:16	0°  ♋	retrograde	15093 Jul 14 12:37	26°  ♋17'38	
max. Earth dist.	15088 Apr 08 18:56	0°  ♋01'03	desc. node	15093 Jul 22 18:54	25°  ♋49'26	
morning rise	15088 May 20 12:13	26°  ♋27'52	min. Earth dist.	15093 Aug 18 12:45	18°  ♋23'05	0.61567 AU
	15088 May 26 01:47	0°  ♍	opposition	15093 Aug 23 17:13	16°  ♋20'47	-1°20'49
	15088 Jul 12 01:36	0°  ♋	greatest brilliancy	15093 Aug 23 10:11	16°  ♋27'41	-1.6m
	15088 Aug 27 11:50	0°  Ω	direct	15093 Oct 01 00:38	7°  ♋32'02	
	15088 Oct 12 08:26	0°  ♍		15093 Dec 14 17:32	0°  ♍	
	15088 Nov 27 00:14	0°  ♊		15094 Feb 09 00:13	0°  ♋	
asc. node	15088 Dec 20 06:05	15°  ♊03'00		15094 Mar 30 21:05	0°  ♍	
	15089 Jan 13 04:50	0°  ♍		15094 May 16 04:19	0°  ♋	
	15089 Mar 17 17:40	0°  ♊	evening set	15094 Jun 12 03:24	18°  ♋23'51	
retrograde	15089 Apr 05 06:11	2°  ♊18'02	max. Earth dist.	15094 Jun 25 20:46	28°  ♋01'35	2.48057 AU
	15089 Apr 23 20:06	30°  ♋♍		15094 Jun 28 15:31	0°  Ω	
min. Earth dist.	15089 May 01 15:01	28°  ♍00'52				
opposition	15089 May 05 22:38	26°  ♍49'29	conjunction	15094 Aug 04 13:06	26°  Ω50'47	-0°04'38
greatest brilliancy	15089 May 04 22:19	27°  ♍06'17	minimum elong	15094 Aug 04 13:27	26°  Ω51'26	0°05'15
direct	15089 Jun 04 02:05	21°  ♍53'08	behind sun begin	15094 Aug 03 14:07	26°  Ω08'07	
	15089 Jul 11 14:04	0°  ♊	behind sun end	15094 Aug 05 12:46	27°  Ω34'48	
	15089 Sep 08 06:12	0°  ♋		15094 Aug 08 18:36	0°  ♍	
desc. node	15089 Oct 17 00:33	23°  ♋18'12	asc. node	15094 Aug 11 05:08	1°  ♍49'31	
	15089 Oct 27 22:00	0°  ♌		15094 Sep 17 03:00	0°  ♊	
	15089 Dec 15 08:37	0°  ♋	morning rise	15094 Oct 07 07:01	15°  ♊44'29	
	15090 Feb 01 15:35	0°  ♍		15094 Oct 25 09:31	0°  ♍	
	15090 Mar 21 16:09	0°  ♋	greatest brilliancy	15094 Nov 15 14:10	16°  ♍44'35	1.2m
evening set	15090 Mar 29 10:36	4°  ♋53'12		15094 Dec 02 10:01	0°  ♊	
max. Earth dist.	15090 May 01 01:49	25°  ♋35'03		15095 Jan 10 02:26	0°  ♋	
	15090 May 07 23:20	0°  ♍		15095 Feb 19 10:54	0°  ♌	

	15095 Apr 03 17:16	0°♄			15100 Feb 27 19:06	0°♄
	15095 May 22 08:05	0°♅		asc. node	15100 Apr 03 05:12	17°♄16'36
desc. node	15095 Jun 09 21:08	9°♅57'18			15100 Apr 24 01:33	0°♄
	15095 Aug 03 01:15	0°♄			15100 Jun 06 13:38	0°♄
retrograde	15095 Aug 18 10:24	1°♄23'49			15100 Jul 16 08:46	0°♄
	15095 Sep 02 02:41	30°♄			15100 Aug 23 19:24	0°♄
min. Earth dist.	15095 Sep 26 21:49	22°♅04'07	0.67971 AU		15100 Oct 01 07:29	0°♄
opposition	15095 Sep 28 07:19	21°♅30'59	-3°42'44		15100 Nov 09 20:58	0°♄
greatest brilliancy	15095 Sep 28 01:29	21°♅36'44	-1.3m		15100 Dec 21 03:44	0°♄
direct	15095 Nov 08 00:12	11°♅52'42		evening set	15100 Dec 24 18:36	2°♄33'46
	15096 Jan 12 07:11	0°♄		desc. node	15101 Jan 29 16:17	27°♄26'07
	15096 Mar 08 16:47	0°♄			15101 Feb 02 11:03	0°♄
	15096 Apr 25 16:04	0°♄				
	15096 Jun 08 10:08	0°♄		conjunction	15101 Feb 15 20:13	8°♄59'58 -0°10'17
asc. node	15096 Jun 27 22:21	14°♄05'37		minimum elong	15101 Feb 15 19:47	8°♄59'15 0°09'50
	15096 Jul 19 07:39	0°♄		behind sun begin	15101 Feb 15 03:10	8°♄31'31
evening set	15096 Aug 04 11:54	12°♄18'47		behind sun end	15101 Feb 16 12:23	9°♄26'58
	15096 Aug 27 07:07	0°♄		max. Earth dist.	15101 Mar 09 10:57	23°♄17'47 2.61353 AU
	15096 Oct 04 06:15	0°♄			15101 Mar 19 17:33	0°♅
				morning rise	15101 Apr 04 09:19	10°♅06'33
conjunction	15096 Oct 13 01:59	7°♄00'29	1°01'37		15101 May 05 17:18	0°♄
minimum elong	15096 Oct 12 22:44	6°♄54'02	1°02'05		15101 Jun 23 06:50	0°♄
max. Earth dist.	15096 Nov 08 03:42	27°♄39'34	2.36290 AU		15101 Aug 12 22:38	0°♄
	15096 Nov 11 03:01	0°♄			15101 Oct 07 18:27	0°♄
	15096 Dec 19 18:42	0°♄		retrograde	15101 Dec 19 17:48	22°♄12'47
morning rise	15096 Dec 25 22:53	4°♄41'43				
	15097 Jan 29 00:55	0°♄				
	15097 Mar 12 15:16	0°♄				
desc. node	15097 Apr 26 14:24	29°♄30'52				
	15097 Apr 27 08:55	0°♅				
	15097 Jun 17 02:20	0°♄				
	15097 Aug 24 19:59	0°♄				
retrograde	15097 Sep 20 19:01	3°♄52'28				
	15097 Oct 15 16:44	30°♄				
opposition	15097 Oct 30 23:04	24°♄30'16	-4°48'22			
greatest brilliancy	15097 Oct 31 08:09	24°♄21'24	-1.3m			
min. Earth dist.	15097 Nov 02 11:19	23°♄31'19	0.67621 AU			
direct	15097 Dec 11 14:18	14°♄29'10				
	15098 Feb 07 12:48	0°♄				
	15098 Apr 03 10:31	0°♄				
asc. node	15098 May 15 21:57	27°♄58'20				
	15098 May 18 19:47	0°♄				
	15098 Jun 29 02:05	0°♄				
	15098 Aug 07 01:42	0°♄				
greatest brilliancy	15098 Sep 02 03:40	20°♄34'37	1.2m			
	15098 Sep 14 00:44	0°♄				
evening set	15098 Oct 20 06:24	28°♄37'23				
	15098 Oct 22 00:37	0°♄				
	15098 Nov 29 23:02	0°♄				
conjunction	15098 Dec 26 18:41	19°♄58'54	0°44'53			
minimum elong	15098 Dec 26 21:23	20°♄03'50	0°45'48			
	15099 Jan 09 13:15	0°♄				
max. Earth dist.	15099 Feb 06 12:38	19°♄49'25	2.49929 AU			
	15099 Feb 21 06:42	0°♄				
morning rise	15099 Feb 22 05:59	0°♄39'46				
desc. node	15099 Mar 14 03:43	14°♄05'18				
	15099 Apr 07 09:23	0°♅				
	15099 May 25 04:37	0°♄				
	15099 Jul 15 21:46	0°♄				
	15099 Sep 17 13:37	0°♄				
retrograde	15099 Oct 29 13:24	8°♄32'34				
opposition	15099 Dec 06 14:52	0°♄05'25	-4°31'50			
	15099 Dec 06 20:34	30°♄				
greatest brilliancy	15099 Dec 07 16:03	29°♄41'28	-1.6m			
min. Earth dist.	15099 Dec 12 23:15	27°♄40'38	0.60447 AU			
direct	15100 Jan 16 11:40	20°♄14'08				