

conjunction	2600 Jul 18 02:06	25°♄49'37 0°59'41		2605 Jun 04 10:39	0°♑	
minimum elong	2600 Jul 18 00:49	25°♄47'31 0°59'41		2605 Jul 17 06:09	0°♄	
	2600 Jul 24 10:40	0°♂		2605 Sep 06 19:10	0°♂	
max. Earth dist.	2600 Aug 04 12:20	7°♂13'25 2.62961 AU	retrograde	2605 Oct 19 02:53	10°♂56'30	
morning rise	2600 Sep 04 07:14	27°♂02'58	asc. node	2605 Nov 10 16:44	7°♂15'39	
	2600 Sep 08 22:15	0°♎	min. Earth dist.	2605 Nov 16 18:54	5°♂15'09	0.47908 AU
	2600 Oct 26 12:09	0°♊	opposition	2605 Nov 25 00:00	2°♂18'05	0°47'13
	2600 Dec 14 02:21	0°♎	greatest brilliancy	2605 Nov 24 17:30	2°♂23'57	-2.3m
	2601 Feb 02 14:47	0°♊		2605 Dec 01 14:50	30°♄♄	
	2601 Mar 31 15:44	0°♄	direct	2605 Dec 28 11:10	25°♄16'30	
desc. node	2601 Apr 06 02:08	2°♄24'59		2606 Jan 26 04:52	0°♂	
retrograde	2601 May 30 13:03	16°♄25'50		2606 Apr 02 11:41	0°♄	
opposition	2601 Jul 02 03:32	10°♄23'28 -4°24'16		2606 May 25 05:05	0°♂	
greatest brilliancy	2601 Jul 03 08:26	10°♄00'43 -2.5m		2606 Jul 14 03:51	0°♎	
min. Earth dist.	2601 Jul 10 02:52	7°♄53'51 0.43609 AU		2606 Aug 31 07:56	0°♊	
direct	2601 Aug 06 11:20	3°♄06'55	evening set	2606 Sep 22 13:28	14°♊14'59	
	2601 Oct 17 10:36	0°♌	max. Earth dist.	2606 Oct 14 22:22	28°♊53'33	2.60030 AU
	2601 Dec 01 10:23	0°♋		2606 Oct 16 14:29	0°♎	
	2602 Jan 12 04:49	0°♑				
asc. node	2602 Feb 05 18:03	17°♑44'11	conjunction	2606 Nov 08 00:21	15°♎01'57	0°10'56
	2602 Feb 22 21:00	0°♄	minimum elong	2606 Nov 08 00:45	15°♎02'38	0°10'56
	2602 Apr 06 15:56	0°♂	behind sun begin	2606 Nov 07 09:56	14°♎37'32	
	2602 May 21 00:13	0°♄	behind sun end	2606 Nov 08 15:34	15°♎27'45	
	2602 Jul 05 20:07	0°♂	desc. node	2606 Nov 26 23:27	28°♎02'05	
evening set	2602 Jul 10 05:54	2°♂50'44		2606 Nov 29 19:27	0°♊	
	2602 Aug 21 15:38	0°♎	morning rise	2606 Dec 26 00:50	18°♊28'40	
				2607 Jan 11 00:48	0°♄	
conjunction	2602 Aug 26 13:33	3°♎07'43 1°08'01		2607 Feb 20 14:02	0°♌	
minimum elong	2602 Aug 26 13:52	3°♎08'13 1°08'01		2607 Mar 31 23:52	0°♋	
max. Earth dist.	2602 Aug 28 17:41	4°♎30'41 2.67400 AU		2607 May 09 23:38	0°♑	
	2602 Oct 07 18:45	0°♊		2607 Jun 18 12:55	0°♄	
morning rise	2602 Oct 10 07:26	1°♊36'44		2607 Jul 30 02:28	0°♂	
	2602 Nov 23 15:59	0°♎		2607 Sep 14 15:41	0°♄	
	2603 Jan 09 01:51	0°♊	asc. node	2607 Sep 28 14:45	7°♄47'50	
desc. node	2603 Feb 22 01:03	28°♊36'54	retrograde	2607 Dec 01 04:38	28°♄06'45	
	2603 Feb 24 04:05	0°♄	min. Earth dist.	2608 Jan 04 09:28	20°♄21'22	0.60116 AU
	2603 Apr 11 12:14	0°♌	opposition	2608 Jan 09 18:28	18°♄13'27	3°55'29
	2603 May 30 00:59	0°♋	greatest brilliancy	2608 Jan 08 23:27	18°♄32'20	-1.6m
	2603 Aug 11 21:43	0°♑	direct	2608 Feb 16 05:11	9°♄32'38	
retrograde	2603 Aug 18 16:21	0°♑18'28		2608 Apr 25 20:24	0°♂	
	2603 Aug 25 09:55	30°♄♄		2608 Jun 21 16:24	0°♎	
min. Earth dist.	2603 Sep 15 14:38	25°♋44'18 0.37484 AU		2608 Aug 11 02:09	0°♊	
opposition	2603 Sep 18 10:15	24°♋58'32 -5°50'57		2608 Sep 27 00:52	0°♎	
greatest brilliancy	2603 Sep 18 01:07	25°♋04'43 -2.9m	desc. node	2608 Oct 13 22:22	11°♎16'53	
direct	2603 Oct 17 21:17	20°♋02'39	evening set	2608 Nov 01 06:04	23°♎48'40	
	2603 Nov 28 17:50	0°♑		2608 Nov 10 03:16	0°♊	
asc. node	2603 Dec 24 16:58	12°♑36'55	max. Earth dist.	2608 Nov 15 20:44	4°♊01'43	2.48967 AU
	2604 Jan 24 00:57	0°♄		2608 Dec 21 19:30	0°♄	
	2604 Mar 12 10:35	0°♂				
	2604 Apr 28 21:23	0°♄	conjunction	2608 Dec 22 21:03	0°♄47'12 -0°39'36	
	2604 Jun 15 13:05	0°♂	minimum elong	2608 Dec 22 19:19	0°♄43'59	0°39'35
	2604 Aug 02 07:24	0°♎		2609 Jan 30 14:43	0°♌	
evening set	2604 Aug 16 13:03	8°♎58'36	morning rise	2609 Feb 19 04:01	15°♌06'25	
	2604 Sep 18 14:58	0°♊		2609 Mar 10 05:58	0°♋	
max. Earth dist.	2604 Sep 19 15:37	0°♊39'28 2.66383 AU		2609 Apr 17 12:42	0°♑	
				2609 May 26 08:10	0°♄	
conjunction	2604 Sep 30 22:44	7°♊54'40 0°49'54		2609 Jul 05 15:26	0°♂	
minimum elong	2604 Sep 30 23:50	7°♊56'26 0°49'53	asc. node	2609 Aug 15 13:47	28°♂39'31	
	2604 Nov 03 21:27	0°♎		2609 Aug 17 13:42	0°♄	
morning rise	2604 Nov 14 11:36	6°♎59'35		2609 Oct 04 05:18	0°♂	
	2604 Dec 18 18:11	0°♊		2609 Dec 07 09:09	0°♎	
desc. node	2605 Jan 08 23:51	14°♊33'22	retrograde	2610 Jan 04 22:00	4°♎36'00	
	2605 Jan 31 03:49	0°♄		2610 Jan 31 05:30	30°♄♄	
	2605 Mar 14 05:51	0°♌	min. Earth dist.	2610 Feb 12 13:55	25°♂21'20	0.66884 AU
	2605 Apr 24 09:41	0°♋	opposition	2610 Feb 14 03:19	24°♂43'50	4°34'05

greatest brilliancy	2610 Feb 13 20:40	24°♏50'30	-1.3m		2615 Mar 26 01:34	0°♄	
direct	2610 Mar 26 05:00	15°♏09'00		asc. node	2615 Apr 07 11:00	9°♄15'09	
	2610 May 22 21:39	0°♎			2615 May 05 20:51	0°♄	
	2610 Jul 20 07:01	0°♎		evening set	2615 May 06 08:13	0°♄20'25	
desc. node	2610 Aug 31 20:29	25°♎50'23			2615 Jun 17 15:11	0°♄	
	2610 Sep 07 08:22	0°♎					
	2610 Oct 21 23:37	0°♎		conjunction	2615 Jul 01 14:27	9°♄30'10	0°47'42
	2610 Dec 02 13:39	0°♎		minimum elong	2615 Jul 01 12:43	9°♄27'16	0°47'41
evening set	2610 Dec 22 22:31	15°♎19'35		max. Earth dist.	2615 Jul 26 00:50	25°♄48'59	2.59760 AU
	2611 Jan 11 00:52	0°♎			2615 Aug 01 09:20	0°♏	
max. Earth dist.	2611 Feb 10 08:28	23°♎43'15	2.37149 AU	morning rise	2615 Aug 21 07:06	12°♏58'14	
	2611 Feb 18 07:28	0°♎			2615 Sep 16 21:10	0°♎	
					2615 Nov 03 21:03	0°♎	
conjunction	2611 Feb 24 02:57	4°♎35'26	-1°03'36		2615 Dec 23 18:03	0°♎	
minimum elong	2611 Feb 24 04:09	4°♎37'49	1°03'37		2616 Feb 16 04:11	0°♎	
	2611 Mar 28 07:42	0°♎		desc. node	2616 Apr 22 16:49	24°♎24'15	
	2611 May 05 22:59	0°♎		retrograde	2616 May 05 08:35	25°♎20'44	
morning rise	2611 May 06 04:31	0°♎10'34		opposition	2616 Jun 08 20:06	18°♎26'39	-2°18'08
	2611 Jun 15 01:03	0°♄		greatest brilliancy	2616 Jun 09 12:47	18°♎12'18	-2.2m
asc. node	2611 Jul 03 13:56	13°♄22'56		min. Earth dist.	2616 Jun 17 06:33	15°♎33'16	0.48850 AU
	2611 Jul 27 06:50	0°♄		direct	2616 Jul 16 16:21	9°♎58'13	
	2611 Sep 10 09:31	0°♏			2616 Sep 15 20:37	0°♎	
	2611 Oct 29 20:44	0°♎			2616 Nov 01 20:29	0°♎	
	2611 Dec 31 04:14	0°♎			2616 Dec 13 03:21	0°♎	
retrograde	2612 Feb 08 10:43	7°♎50'18			2617 Jan 22 05:03	0°♎	
	2612 Mar 15 05:37	30°♎		asc. node	2617 Feb 22 10:37	23°♎10'27	
opposition	2612 Mar 19 02:55	28°♎28'36	3°47'11		2617 Mar 03 18:26	0°♎	
greatest brilliancy	2612 Mar 19 10:12	28°♎21'25	-1.3m		2617 Apr 14 17:10	0°♄	
min. Earth dist.	2612 Mar 21 10:30	27°♎33'40	0.67102 AU		2617 May 28 10:24	0°♄	
direct	2612 Apr 29 11:19	18°♎28'12		evening set	2617 Jun 23 22:02	17°♄37'11	
	2612 Jun 17 10:02	0°♎			2617 Jul 12 20:01	0°♏	
desc. node	2612 Jul 18 19:15	14°♎53'01					
	2612 Aug 14 13:42	0°♎		conjunction	2617 Aug 11 20:56	19°♏23'40	1°08'18
	2612 Sep 30 08:04	0°♎		minimum elong	2617 Aug 11 20:40	19°♏23'14	1°08'19
	2612 Nov 11 12:12	0°♎		max. Earth dist.	2617 Aug 19 16:51	24°♏24'33	2.66329 AU
	2612 Dec 21 01:33	0°♎			2617 Aug 28 10:51	0°♎	
	2613 Jan 28 07:27	0°♎		morning rise	2617 Sep 26 13:05	18°♎30'22	
evening set	2613 Mar 01 00:53	25°♎02'53			2617 Oct 14 16:08	0°♎	
	2613 Mar 07 08:14	0°♎			2617 Dec 01 00:55	0°♎	
	2613 Apr 15 02:39	0°♎			2618 Jan 17 12:58	0°♎	
					2618 Mar 06 19:29	0°♎	
conjunction	2613 May 07 01:33	16°♎31'12	-0°08'51	desc. node	2618 Mar 10 16:41	2°♎22'03	
minimum elong	2613 May 07 02:16	16°♎32'33	0°08'50		2618 Apr 27 01:18	0°♎	
behind sun begin	2613 May 06 03:20	15°♎49'54		retrograde	2618 Jul 17 13:23	28°♎47'29	
behind sun end	2613 May 08 01:13	17°♎15'10		opposition	2618 Aug 16 17:36	23°♎49'17	-6°48'05
asc. node	2613 May 20 12:30	26°♎26'59		greatest brilliancy	2618 Aug 17 10:10	23°♎38'09	-2.9m
	2613 May 25 09:16	0°♄		min. Earth dist.	2618 Aug 19 09:11	23°♎06'38	0.37780 AU
max. Earth dist.	2613 Jun 21 16:03	19°♄31'41	2.48163 AU	direct	2618 Sep 16 08:19	18°♎34'46	
	2613 Jul 06 16:29	0°♄			2618 Oct 30 11:57	0°♎	
morning rise	2613 Jul 07 08:31	0°♄27'42			2618 Dec 22 09:53	0°♎	
	2613 Aug 20 06:37	0°♏		asc. node	2619 Jan 10 09:06	12°♎14'47	
	2613 Oct 06 08:42	0°♎			2619 Feb 06 05:20	0°♎	
	2613 Nov 25 20:48	0°♎			2619 Mar 23 08:08	0°♄	
	2614 Jan 24 12:31	0°♎			2619 May 08 03:54	0°♄	
retrograde	2614 Mar 17 18:55	12°♎39'16			2619 Jun 23 21:52	0°♏	
opposition	2614 Apr 24 16:34	4°♎11'49	1°40'33	evening set	2619 Aug 03 01:55	25°♏29'05	
greatest brilliancy	2614 Apr 25 02:13	4°♎02'37	-1.6m		2619 Aug 10 04:59	0°♎	
min. Earth dist.	2614 Apr 30 17:09	1°♎54'00	0.60761 AU	max. Earth dist.	2619 Sep 11 16:39	20°♎37'17	2.67441 AU
	2614 May 05 21:51	30°♎					
direct	2614 Jun 04 16:54	24°♎19'16		conjunction	2619 Sep 17 20:38	24°♎33'01	0°59'39
desc. node	2614 Jun 05 18:17	24°♎19'42		minimum elong	2619 Sep 17 21:35	24°♎34'32	0°59'39
	2614 Jul 06 10:36	0°♎			2619 Sep 26 09:23	0°♎	
	2614 Sep 05 00:57	0°♎		morning rise	2619 Nov 01 02:08	23°♎00'10	
	2614 Oct 20 00:18	0°♎			2619 Nov 11 19:57	0°♎	
	2614 Nov 29 13:45	0°♎			2619 Dec 27 04:11	0°♎	
	2615 Jan 07 08:10	0°♎		desc. node	2620 Jan 26 15:52	20°♎37'10	
	2615 Feb 14 19:29	0°♎			2620 Feb 09 08:37	0°♎	

	2620 Mar 23 12:45	0°♊			2625 Sep 14 22:36	0°♎	
	2620 May 05 03:09	0°♋		desc. node	2625 Sep 17 12:06	1°♎40'30	
	2620 Jun 17 09:28	0°♌			2625 Oct 29 07:01	0°♏	
	2620 Aug 04 22:28	0°♍		evening set	2625 Nov 30 21:30	23°♏22'44	
retrograde	2620 Sep 28 01:42	16°♍58'57			2625 Dec 09 20:57	0°♐	
min. Earth dist.	2620 Oct 24 22:53	12°♍06'51	0.42731 AU	max. Earth dist.	2625 Dec 19 20:11	7°♐26'20	2.40989 AU
opposition	2620 Nov 01 21:02	9°♍31'14	-1°33'36		2626 Jan 18 10:31	0°♑	
greatest brilliancy	2620 Nov 01 11:03	9°♍39'26	-2.6m				
asc. node	2620 Nov 27 07:43	3°♍39'36		conjunction	2626 Jan 27 21:36	7°♑20'14	-1°02'22
direct	2620 Dec 03 08:21	3°♍24'59		minimum elong	2626 Jan 27 20:15	7°♑17'37	1°02'22
	2621 Feb 19 13:11	0°♎			2626 Feb 25 19:35	0°♋	
	2621 Apr 13 14:54	0°♏			2626 Apr 04 21:22	0°♌	
	2621 Jun 02 14:23	0°♐		morning rise	2626 Apr 05 18:36	0°♌41'40	
	2621 Jul 21 11:13	0°♑			2626 May 13 13:10	0°♍	
	2621 Sep 07 05:11	0°♒			2626 Jun 22 15:26	0°♎	
evening set	2621 Sep 08 01:14	0°♒31'58		asc. node	2626 Jul 20 05:30	19°♒45'20	
max. Earth dist.	2621 Oct 04 17:47	17°♒43'47	2.63146 AU		2626 Aug 04 00:08	0°♏	
					2626 Sep 18 16:03	0°♐	
conjunction	2621 Oct 23 16:43	0°♎10'17	0°28'07		2626 Nov 09 10:23	0°♑	
minimum elong	2621 Oct 23 17:36	0°♎11'44	0°28'06	retrograde	2627 Jan 25 20:56	25°♑10'09	
	2621 Oct 23 10:30	0°♎		opposition	2627 Mar 06 21:17	15°♑34'01	4°14'09
	2621 Dec 06 20:29	0°♏		greatest brilliancy	2627 Mar 06 23:42	15°♑31'37	-1.3m
morning rise	2621 Dec 08 18:20	1°♏19'10		min. Earth dist.	2627 Mar 07 16:27	15°♑14'56	0.67801 AU
desc. node	2621 Dec 13 14:28	4°♏40'18		direct	2627 Apr 16 21:27	5°♑40'41	
	2622 Jan 18 11:07	0°♐			2627 Jul 03 02:52	0°♒	
	2622 Feb 28 12:07	0°♑		desc. node	2627 Aug 05 10:31	18°♒18'52	
	2622 Apr 09 10:16	0°♋			2627 Aug 24 18:22	0°♎	
	2622 May 18 22:38	0°♌			2627 Oct 09 09:43	0°♏	
	2622 Jun 28 03:49	0°♍			2627 Nov 20 06:10	0°♐	
	2622 Aug 10 02:25	0°♎			2627 Dec 29 17:39	0°♑	
	2622 Oct 01 09:19	0°♏		evening set	2628 Feb 01 11:51	26°♑28'29	
asc. node	2622 Oct 15 07:38	5°♏41'44			2628 Feb 05 22:52	0°♋	
retrograde	2622 Nov 15 19:14	11°♏49'32			2628 Mar 14 22:22	0°♌	
min. Earth dist.	2622 Dec 17 21:53	4°♏48'39	0.55809 AU				
opposition	2622 Dec 24 15:41	2°♏11'31	3°06'52	conjunction	2628 Apr 09 21:19	20°♌14'16	-0°36'20
greatest brilliancy	2622 Dec 23 20:13	2°♏30'29	-1.9m	minimum elong	2628 Apr 10 00:18	20°♌20'01	0°36'17
	2622 Dec 30 10:41	30°♋♎			2628 Apr 22 14:23	0°♍	
direct	2623 Jan 29 16:42	24°♎02'41		max. Earth dist.	2628 May 31 09:20	29°♍00'52	2.42718 AU
	2623 Mar 04 02:05	0°♏			2628 Jun 01 17:42	0°♎	
	2623 May 09 04:07	0°♐		asc. node	2628 Jun 06 04:53	3°♎15'05	
	2623 Jul 01 03:48	0°♑		morning rise	2628 Jun 15 14:36	10°♎02'20	
	2623 Aug 19 10:47	0°♒			2628 Jul 13 22:30	0°♏	
	2623 Oct 05 01:15	0°♎			2628 Aug 27 14:15	0°♐	
evening set	2623 Oct 16 15:12	7°♎43'13			2628 Oct 14 05:55	0°♑	
desc. node	2623 Oct 31 13:23	17°♎49'59			2628 Dec 05 22:50	0°♒	
max. Earth dist.	2623 Nov 02 10:17	19°♎06'50	2.53768 AU	retrograde	2629 Mar 02 01:26	28°♒47'23	
	2623 Nov 18 03:41	0°♏		opposition	2629 Apr 09 19:35	19°♒55'16	2°40'23
				greatest brilliancy	2629 Apr 10 06:44	19°♒44'27	-1.5m
conjunction	2623 Dec 04 13:56	11°♏35'48	-0°19'56	min. Earth dist.	2629 Apr 14 10:27	18°♒07'40	0.63999 AU
minimum elong	2623 Dec 04 13:04	11°♏34'15	0°19'55	direct	2629 May 21 04:28	9°♒54'14	
	2623 Dec 30 00:11	0°♐		desc. node	2629 Jun 22 09:52	15°♒34'03	
morning rise	2624 Jan 26 17:35	20°♐38'46			2629 Jul 26 11:43	0°♎	
	2624 Feb 08 01:33	0°♑			2629 Sep 15 15:26	0°♏	
	2624 Mar 17 22:52	0°♋			2629 Oct 29 00:29	0°♐	
	2624 Apr 25 10:48	0°♌			2629 Dec 08 00:34	0°♑	
	2624 Jun 03 10:50	0°♍			2630 Jan 15 11:54	0°♋	
	2624 Jul 14 00:33	0°♎			2630 Feb 22 17:26	0°♌	
	2624 Aug 26 16:05	0°♏			2630 Apr 02 17:28	0°♍	
asc. node	2624 Sep 01 07:06	3°♏38'28		evening set	2630 Apr 12 14:18	7°♍25'42	
	2624 Oct 16 03:32	0°♐		asc. node	2630 Apr 24 03:53	16°♍01'58	
retrograde	2624 Dec 22 10:36	21°♐16'30			2630 May 13 06:12	0°♎	
min. Earth dist.	2625 Jan 28 11:41	12°♐33'23	0.64979 AU				
opposition	2625 Jan 31 13:39	11°♐19'11	4°31'09	conjunction	2630 Jun 12 03:00	21°♎13'44	0°29'59
greatest brilliancy	2625 Jan 31 01:09	11°♐31'44	-1.4m	minimum elong	2630 Jun 12 01:23	21°♎10'54	0°29'57
direct	2625 Mar 11 18:29	2°♐01'49			2630 Jun 24 18:37	0°♏	
	2625 Jun 05 04:06	0°♑		max. Earth dist.	2630 Jul 14 12:40	13°♏27'19	2.55752 AU
	2625 Jul 28 23:03	0°♒		morning rise	2630 Aug 05 04:18	27°♏53'21	

	2630 Aug 08 09:14	0°♈	greatest brilliancy	2635 Oct 05 07:35	12°♊33'07	-2.9m
	2630 Sep 23 23:35	0°♍	direct	2635 Nov 04 20:54	7°♊07'54	
	2630 Nov 11 14:53	0°♊	asc. node	2635 Dec 15 01:28	16°♊13'59	
	2631 Jan 02 13:12	0°♌		2636 Jan 13 05:38	0°♋	
	2631 Mar 07 19:55	0°♈		2636 Mar 05 08:57	0°♌	
retrograde	2631 Apr 14 23:34	7°♈19'21		2636 Apr 23 04:18	0°♍	
desc. node	2631 May 10 09:15	3°♈18'12		2636 Jun 10 11:32	0°♈	
	2631 May 20 04:41	30°♌		2636 Jul 28 13:51	0°♍	
opposition	2631 May 21 00:18	29°♌42'14	-0°29'03	evening set	2636 Aug 24 17:55	17°♍06'08
greatest brilliancy	2631 May 21 03:43	29°♌39'08	-2.0m		2636 Sep 14 00:47	0°♊
min. Earth dist.	2631 May 28 20:26	26°♌51'30	0.54004 AU	max. Earth dist.	2636 Sep 25 01:37	7°♊04'35 2.65463 AU
direct	2631 Jun 29 13:47	20°♌26'19				
	2631 Aug 09 12:42	0°♈	conjunction	2636 Oct 09 02:40	16°♊09'00	0°42'43
	2631 Oct 02 11:16	0°♋	minimum elong	2636 Oct 09 03:45	16°♊10'46	0°42'43
	2631 Nov 14 05:52	0°♌		2636 Oct 30 06:50	0°♌	
	2631 Dec 24 00:50	0°♈	morning rise	2636 Nov 23 00:21	15°♌47'16	
	2632 Feb 01 05:05	0°♊		2636 Dec 13 23:48	0°♈	
asc. node	2632 Mar 11 02:04	29°♊15'42	desc. node	2636 Dec 30 05:55	11°♈11'19	
	2632 Mar 12 01:59	0°♋		2637 Jan 26 02:07	0°♋	
	2632 Apr 22 10:51	0°♌		2637 Mar 08 18:13	0°♌	
	2632 Jun 04 16:52	0°♍		2637 Apr 18 09:16	0°♈	
evening set	2632 Jun 06 05:02	1°♍01'19		2637 May 28 17:14	0°♊	
	2632 Jul 19 18:36	0°♈		2637 Jul 09 04:31	0°♋	
				2637 Aug 24 11:19	0°♌	
conjunction	2632 Jul 27 10:04	4°♈59'09	1°04'15	retrograde	2637 Oct 29 18:48	23°♌15'07
minimum elong	2632 Jul 27 09:08	4°♈57'39	1°04'14	asc. node	2637 Oct 31 23:59	23°♌12'57
max. Earth dist.	2632 Aug 10 04:56	13°♈55'16	2.64406 AU	min. Earth dist.	2637 Nov 28 16:20	17°♌04'00 0.50840 AU
	2632 Sep 04 06:29	0°♍		opposition	2637 Dec 06 12:11	14°♌08'52 1°48'54
morning rise	2632 Sep 12 12:56	5°♍16'01		greatest brilliancy	2637 Dec 05 22:21	14°♌21'48 -2.1m
	2632 Oct 21 16:11	0°♊	direct	2638 Jan 09 22:39	6°♌40'24	
	2632 Dec 08 17:32	0°♌		2638 Mar 24 20:12	0°♍	
	2633 Jan 26 21:13	0°♈		2638 May 19 05:52	0°♈	
	2633 Mar 20 06:06	0°♋		2638 Jul 09 01:37	0°♍	
desc. node	2633 Mar 27 07:54	3°♋44'52		2638 Aug 26 14:17	0°♊	
	2633 Jun 06 01:25	0°♌	evening set	2638 Oct 01 02:37	22°♊50'17	
retrograde	2633 Jun 15 18:52	0°♌33'54		2638 Oct 11 23:37	0°♌	
	2633 Jun 25 06:04	30°♌	max. Earth dist.	2638 Oct 21 08:50	6°♌14'49	2.58001 AU
opposition	2633 Jul 17 04:55	25°♋00'27	-5°33'41			
greatest brilliancy	2633 Jul 18 12:09	24°♋37'18	-2.7m	conjunction	2638 Nov 17 06:04	24°♌30'46 -0°00'02
min. Earth dist.	2633 Jul 24 01:09	22°♋59'13	0.41032 AU	minimum elong	2638 Nov 17 06:01	24°♌30'41 0°00'03
direct	2633 Aug 19 21:32	18°♋30'25		behind sun begin	2638 Nov 16 11:41	23°♌59'07
	2633 Oct 02 12:50	0°♌		behind sun end	2638 Nov 18 00:21	25°♌02'17
	2633 Nov 22 16:51	0°♈		desc. node	2638 Nov 17 04:38	24°♌28'19
	2634 Jan 05 05:52	0°♊			2638 Nov 25 04:08	0°♈
asc. node	2634 Jan 27 01:36	15°♊22'56	morning rise	2639 Jan 05 17:46	29°♈36'37	
	2634 Feb 16 20:36	0°♋		2639 Jan 06 06:37	0°♋	
	2634 Apr 01 05:43	0°♌		2639 Feb 15 15:49	0°♌	
	2634 May 15 23:45	0°♍		2639 Mar 26 20:54	0°♈	
	2634 Jul 01 01:51	0°♈		2639 May 04 15:38	0°♊	
evening set	2634 Jul 19 03:34	11°♈35'19		2639 Jun 12 22:35	0°♋	
	2634 Aug 17 00:45	0°♍		2639 Jul 23 23:48	0°♌	
				2639 Sep 07 00:13	0°♍	
conjunction	2634 Sep 03 18:41	11°♍17'07	1°06'00	asc. node	2639 Sep 18 22:54	7°♍12'22
minimum elong	2634 Sep 03 19:16	11°♍18'04	1°06'00		2639 Nov 04 06:28	0°♈
max. Earth dist.	2634 Sep 02 22:58	10°♍45'47	2.67655 AU	retrograde	2639 Dec 09 12:12	7°♈09'12
	2634 Oct 03 03:52	0°♊			2640 Jan 11 07:16	30°♌
morning rise	2634 Oct 18 04:42	9°♊36'56		min. Earth dist.	2640 Jan 13 18:24	29°♍02'00 0.62105 AU
	2634 Nov 18 20:39	0°♌		opposition	2640 Jan 18 08:28	27°♍12'09 4°13'51
	2635 Jan 03 20:07	0°♈		greatest brilliancy	2640 Jan 17 15:06	27°♍29'30 -1.5m
desc. node	2635 Feb 12 07:00	26°♈07'20		direct	2640 Feb 25 11:31	18°♍16'49
	2635 Feb 18 02:44	0°♋			2640 Apr 15 09:30	0°♈
	2635 Apr 03 23:52	0°♌			2640 Jun 15 13:53	0°♍
	2635 May 19 09:18	0°♈			2640 Aug 05 23:11	0°♊
	2635 Jul 08 03:35	0°♊			2640 Sep 22 06:00	0°♌
retrograde	2635 Sep 03 20:14	18°♊21'33	desc. node	2640 Oct 04 03:30	7°♌53'09	
min. Earth dist.	2635 Sep 30 15:54	13°♊53'57	0.38704 AU		2640 Nov 05 10:46	0°♈
opposition	2635 Oct 05 23:55	12°♊21'16	-4°25'52	evening set	2640 Nov 11 10:45	4°♈13'13

max. Earth dist.	2640 Nov 26 01:51	14°♊39'12	2.46114 AU		2645 Jul 01 21:47	0°♋	
	2640 Dec 17 02:26	0°♌		morning rise	2645 Jul 18 11:04	11°♋19'43	
					2645 Aug 15 10:40	0°♌	
conjunction	2641 Jan 04 00:45	13°♌23'26	-0°49'45		2645 Oct 01 06:32	0°♍	
minimum elong	2641 Jan 03 22:45	13°♌19'39	0°49'44		2645 Nov 19 21:22	0°♎	
	2641 Jan 25 19:58	0°♏			2646 Jan 14 11:10	0°♐	
	2641 Mar 05 09:03	0°♑		retrograde	2646 Mar 27 10:58	21°♐30'38	
morning rise	2641 Mar 06 17:49	1°♑04'18		opposition	2646 May 03 18:16	13°♐19'09	0°58'22
	2641 Apr 12 13:48	0°♒		greatest brilliancy	2646 May 04 00:48	13°♐13'01	-1.7m
	2641 May 21 07:25	0°♓		min. Earth dist.	2646 May 10 11:36	10°♐47'28	0.58582 AU
	2641 Jun 30 11:35	0°♈		desc. node	2646 May 27 00:04	5°♐38'00	
asc. node	2641 Aug 05 22:45	25°♈48'21		direct	2646 Jun 13 09:07	3°♐35'55	
	2641 Aug 12 02:23	0°♉			2646 Aug 28 00:47	0°♑	
	2641 Sep 27 17:33	0°♊			2646 Oct 13 19:11	0°♋	
	2641 Nov 23 09:24	0°♌			2646 Nov 23 22:48	0°♍	
retrograde	2642 Jan 12 12:52	12°♌27'13			2647 Jan 02 00:03	0°♎	
opposition	2642 Feb 21 17:34	2°♌39'42	4°30'04		2647 Feb 09 15:54	0°♏	
min. Earth dist.	2642 Feb 20 24:00	2°♌57'18	0.67493 AU		2647 Mar 21 01:51	0°♑	
greatest brilliancy	2642 Feb 21 14:12	2°♌43'04	-1.3m	asc. node	2647 Mar 28 19:41	5°♑46'28	
	2642 Feb 28 11:48	30°♌♌			2647 May 01 00:23	0°♒	
direct	2642 Apr 03 04:46	22°♌57'15		evening set	2647 May 18 12:37	12°♒25'19	
	2642 May 10 16:18	0°♍			2647 Jun 12 21:21	0°♋	
	2642 Jul 14 01:16	0°♎					
desc. node	2642 Aug 22 02:38	23°♎03'40		conjunction	2647 Jul 11 18:44	19°♋28'44	0°55'18
	2642 Sep 02 03:09	0°♏		minimum elong	2647 Jul 11 17:13	19°♋26'13	0°55'17
	2642 Oct 17 02:23	0°♑			2647 Jul 27 16:50	0°♌	
	2642 Nov 27 18:37	0°♒		max. Earth dist.	2647 Aug 01 05:57	2°♌58'48	2.61621 AU
evening set	2643 Jan 05 18:26	29°♒37'42		morning rise	2647 Aug 30 00:02	21°♌36'06	
	2643 Jan 06 05:57	0°♓			2647 Sep 12 03:29	0°♍	
	2643 Feb 13 11:46	0°♈			2647 Oct 29 20:34	0°♎	
					2647 Dec 17 22:00	0°♏	
conjunction	2643 Mar 12 15:07	21°♑27'36	-0°57'30		2648 Feb 07 18:13	0°♑	
minimum elong	2643 Mar 12 17:52	21°♑33'01	0°57'29		2648 Apr 11 11:23	0°♒	
	2643 Mar 23 11:13	0°♓		desc. node	2648 Apr 12 23:01	0°♒30'23	
max. Earth dist.	2643 Apr 20 01:12	21°♓30'53	2.37832 AU	retrograde	2648 May 18 23:58	7°♒15'58	
	2643 May 01 02:09	0°♈		opposition	2648 Jun 21 11:47	0°♒49'42	-3°28'39
morning rise	2643 May 22 06:42	16°♈02'08		greatest brilliancy	2648 Jun 22 12:12	0°♒29'37	-2.4m
	2643 Jun 10 03:43	0°♉			2648 Jun 24 00:07	30°♒♑	
asc. node	2643 Jun 23 20:34	9°♉55'58		min. Earth dist.	2648 Jun 29 21:31	28°♑04'53	0.45914 AU
	2643 Jul 22 07:48	0°♊		direct	2648 Jul 28 01:36	22°♑58'10	
	2643 Sep 05 04:18	0°♋			2648 Aug 30 14:48	0°♌	
	2643 Oct 23 18:03	0°♌			2648 Oct 24 07:25	0°♍	
	2643 Dec 19 16:21	0°♎			2648 Dec 06 06:08	0°♎	
retrograde	2644 Feb 16 10:57	15°♎38'44			2649 Jan 16 02:52	0°♏	
opposition	2644 Mar 26 20:31	6°♎26'28	3°26'01	asc. node	2649 Feb 12 18:22	20°♏15'41	
greatest brilliancy	2644 Mar 27 05:45	6°♎17'23	-1.3m		2649 Feb 26 04:56	0°♑	
min. Earth dist.	2644 Mar 29 23:38	5°♎12'35	0.66289 AU		2649 Apr 09 12:55	0°♒	
	2644 Apr 13 15:40	30°♎♎			2649 May 23 12:58	0°♋	
direct	2644 May 07 06:46	26°♎24'22		evening set	2649 Jul 03 09:12	26°♋55'06	
	2644 Jun 01 19:37	0°♏			2649 Jul 08 03:03	0°♌	
desc. node	2644 Jul 09 01:26	14°♏14'31					
	2644 Aug 07 21:56	0°♐		conjunction	2649 Aug 20 08:51	27°♌47'37	1°08'37
	2644 Sep 24 20:24	0°♑		minimum elong	2649 Aug 20 08:56	27°♌47'45	1°08'37
	2644 Nov 06 09:26	0°♒			2649 Aug 23 19:51	0°♍	
	2644 Dec 16 02:16	0°♓		max. Earth dist.	2649 Aug 25 00:57	0°♍46'25	2.67026 AU
	2645 Jan 23 09:35	0°♈		morning rise	2649 Oct 04 11:10	26°♍29'40	
	2645 Mar 02 11:11	0°♉			2649 Oct 09 23:31	0°♎	
evening set	2645 Mar 16 23:10	11°♉18'41			2649 Nov 26 01:36	0°♏	
	2645 Apr 10 06:33	0°♑			2650 Jan 11 22:16	0°♑	
asc. node	2645 May 10 19:29	22°♑51'05			2650 Feb 27 20:22	0°♒	
	2645 May 20 14:02	0°♒		desc. node	2650 Feb 28 21:59	0°♒40'42	
					2650 Apr 16 19:39	0°♓	
conjunction	2645 May 21 00:18	0°♒18'38	0°06'38		2650 Jun 08 23:24	0°♈	
minimum elong	2645 May 20 23:48	0°♒17'44	0°06'38	retrograde	2650 Aug 04 23:30	16°♈44'03	
behind sun begin	2645 May 19 23:58	29°♈34'25		opposition	2650 Sep 04 02:05	11°♈43'01	-6°33'50
behind sun end	2645 May 21 23:38	1°♈01'01		greatest brilliancy	2650 Sep 04 03:55	11°♈41'48	-2.9m
max. Earth dist.	2645 Jul 01 02:44	29°♈27'04	2.51028 AU	min. Earth dist.	2650 Sep 03 17:32	11°♈48'39	0.37201 AU

direct	2650 Oct 03 16:34	6° $\text{H}$ 47'51		conjunction	2655 Dec 15 05:00	22° $\text{X}$ 35'13 -0°31'22	
	2650 Dec 10 19:23	0° $\text{Y}$		minimum elong	2655 Dec 15 03:36	22° $\text{X}$ 32'42 0°31'21	
asc. node	2650 Dec 31 16:41	12° $\text{Y}$ 05'57			2655 Dec 25 08:09	0° $\text{Z}$	
	2651 Jan 29 12:49	0° $\text{B}$			2656 Feb 03 06:51	0° $\approx$	
	2651 Mar 17 04:25	0° $\text{II}$		morning rise	2656 Feb 09 00:39	4° $\approx$ 24'00	
	2651 May 02 19:11	0° $\text{E}$			2656 Mar 13 01:00	0° $\text{H}$	
	2651 Jun 18 23:55	0° $\text{Q}$			2656 Apr 20 09:36	0° $\text{Y}$	
	2651 Aug 05 12:52	0° $\text{M}$			2656 May 29 06:09	0° $\text{B}$	
evening set	2651 Aug 11 09:50	3° $\text{M}$ 42'39			2656 Jul 08 14:29	0° $\text{II}$	
max. Earth dist.	2651 Sep 16 21:24	26° $\text{M}$ 52'03	2.66954 AU		2656 Aug 20 16:52	0° $\text{E}$	
	2651 Sep 21 19:04	0° $\text{L}$		asc. node	2656 Aug 22 13:37	1° $\text{E}$ 14'15	
					2656 Oct 08 03:30	0° $\text{Q}$	
conjunction	2651 Sep 25 22:14	2° $\text{L}$ 38'42	0°54'20	retrograde	2656 Dec 30 05:13	29° $\text{Q}$ 27'36	
minimum elong	2651 Sep 25 23:18	2° $\text{L}$ 40'24	0°54'20	min. Earth dist.	2657 Feb 06 04:02	20° $\text{Q}$ 26'47	0.66168 AU
	2651 Nov 07 03:44	0° $\text{M}$		opposition	2657 Feb 08 10:16	19° $\text{Q}$ 32'22	4°34'31
morning rise	2651 Nov 09 06:13	1° $\text{M}$ 22'48		greatest brilliancy	2657 Feb 08 00:53	19° $\text{Q}$ 41'46	-1.4m
	2651 Dec 22 06:03	0° $\text{X}$		direct	2657 Mar 20 03:25	10° $\text{Q}$ 04'54	
desc. node	2652 Jan 16 20:58	17° $\text{X}$ 27'36			2657 May 28 02:48	0° $\text{M}$	
	2652 Feb 04 00:04	0° $\text{Z}$			2657 Jul 23 07:37	0° $\text{L}$	
	2652 Mar 17 13:19	0° $\approx$		desc. node	2657 Sep 07 17:46	28° $\text{L}$ 34'22	
	2652 Apr 28 06:37	0° $\text{H}$			2657 Sep 09 22:48	0° $\text{M}$	
	2652 Jun 09 02:02	0° $\text{Y}$			2657 Oct 24 12:37	0° $\text{X}$	
	2652 Jul 23 10:50	0° $\text{B}$			2657 Dec 05 03:47	0° $\text{Z}$	
	2652 Sep 25 22:46	0° $\text{II}$		evening set	2657 Dec 12 23:22	5° $\text{Z}$ 49'30	
retrograde	2652 Oct 10 10:32	1° $\text{II}$ 28'27		max. Earth dist.	2658 Jan 10 01:57	27° $\text{Z}$ 12'05	2.38511 AU
	2652 Oct 24 12:49	30° $\text{R}$ $\text{B}$			2658 Jan 13 16:56	0° $\approx$	
min. Earth dist.	2652 Nov 07 04:21	26° $\text{B}$ 10'11	0.45530 AU				
opposition	2652 Nov 15 10:43	23° $\text{B}$ 18'26	-0°07'50	conjunction	2658 Feb 11 19:30	22° $\approx$ 43'46	-1°04'50
greatest brilliancy	2651 Oct 02 09:29	6° $\text{L}$ 47'47	1.6m	minimum elong	2658 Feb 11 19:26	22° $\approx$ 43'38	1°04'50
asc. node	2652 Nov 17 16:34	22° $\text{B}$ 32'01			2658 Feb 21 00:58	0° $\text{H}$	
direct	2652 Dec 18 01:24	16° $\text{B}$ 40'41			2658 Mar 31 01:34	0° $\text{Y}$	
	2653 Feb 07 12:52	0° $\text{II}$		morning rise	2658 Apr 23 01:19	17° $\text{Y}$ 57'31	
	2653 Apr 06 17:51	0° $\text{E}$			2658 May 08 16:18	0° $\text{B}$	
	2653 May 28 02:47	0° $\text{Q}$			2658 Jun 17 17:06	0° $\text{II}$	
	2653 Jul 16 13:42	0° $\text{M}$		asc. node	2658 Jul 10 13:50	16° $\text{II}$ 28'31	
	2653 Sep 02 13:44	0° $\text{L}$			2658 Jul 29 22:06	0° $\text{E}$	
evening set	2653 Sep 16 07:07	8° $\text{L}$ 46'18			2658 Sep 13 03:34	0° $\text{Q}$	
max. Earth dist.	2653 Oct 10 12:25	24° $\text{L}$ 30'10	2.61521 AU		2658 Nov 02 06:56	0° $\text{M}$	
	2653 Oct 18 20:31	0° $\text{M}$		retrograde	2659 Jan 10 20:13	0° $\text{L}$	
					2659 Feb 02 14:58	2° $\text{L}$ 54'10	
conjunction	2653 Nov 01 07:50	8° $\text{M}$ 58'22	0°18'26		2659 Feb 23 17:56	30° $\text{R}$ $\text{M}$	
minimum elong	2653 Nov 01 08:28	8° $\text{M}$ 59'26	0°18'26	opposition	2659 Mar 14 11:13	23° $\text{M}$ 25'28	3°59'38
	2653 Dec 02 04:41	0° $\text{X}$		greatest brilliancy	2659 Mar 14 16:25	23° $\text{M}$ 20'19	-1.3m
desc. node	2653 Dec 03 20:33	1° $\text{X}$ 09'02		min. Earth dist.	2659 Mar 16 02:04	22° $\text{M}$ 46'56	0.67545 AU
morning rise	2653 Dec 18 08:48	11° $\text{X}$ 17'09		direct	2659 Apr 24 16:36	13° $\text{M}$ 27'48	
	2654 Jan 13 14:47	0° $\text{Z}$			2659 Jun 24 10:38	0° $\text{L}$	
	2654 Feb 23 09:42	0° $\approx$		desc. node	2659 Jul 26 16:32	16° $\text{L}$ 28'16	
	2654 Apr 04 00:58	0° $\text{H}$			2659 Aug 18 21:36	0° $\text{M}$	
	2654 May 13 05:37	0° $\text{Y}$			2659 Oct 04 05:21	0° $\text{X}$	
	2654 Jun 22 00:18	0° $\text{B}$			2659 Nov 15 07:12	0° $\text{Z}$	
	2654 Aug 02 23:36	0° $\text{II}$			2659 Dec 24 20:33	0° $\approx$	
	2654 Sep 20 01:06	0° $\text{E}$		evening set	2660 Feb 01 02:24	0° $\text{H}$	
asc. node	2654 Oct 05 15:09	8° $\text{E}$ 00'28			2660 Feb 17 11:08	12° $\text{H}$ 56'37	
retrograde	2654 Nov 24 17:46	21° $\text{E}$ 47'10			2660 Mar 10 02:14	0° $\text{Y}$	
min. Earth dist.	2654 Dec 28 00:55	14° $\text{E}$ 21'01	0.58300 AU		2660 Apr 17 18:50	0° $\text{B}$	
greatest brilliancy	2655 Jan 02 05:19	12° $\text{E}$ 18'35	-1.7m				
opposition	2655 Jan 03 01:14	11° $\text{E}$ 58'57	3°38'11	conjunction	2660 Apr 25 13:49	5° $\text{B}$ 55'17	-0°20'52
direct	2655 Feb 08 21:16	3° $\text{E}$ 31'36		minimum elong	2660 Apr 25 15:36	5° $\text{B}$ 58'41	0°20'51
	2655 May 01 14:58	0° $\text{Q}$		asc. node	2660 May 27 12:54	29° $\text{B}$ 41'56	
	2655 Jun 25 14:34	0° $\text{M}$			2660 May 27 22:48	0° $\text{II}$	
	2655 Aug 14 13:02	0° $\text{L}$		max. Earth dist.	2660 Jun 13 14:26	12° $\text{II}$ 01'49	2.45741 AU
	2655 Sep 30 09:13	0° $\text{M}$		morning rise	2660 Jun 28 07:29	22° $\text{II}$ 27'06	
desc. node	2655 Oct 21 19:26	14° $\text{M}$ 20'23			2660 Jul 09 03:19	0° $\text{E}$	
evening set	2655 Oct 25 21:41	17° $\text{M}$ 07'33			2660 Aug 22 16:23	0° $\text{Q}$	
max. Earth dist.	2655 Nov 10 08:10	27° $\text{M}$ 45'58	2.51189 AU		2660 Oct 08 21:50	0° $\text{M}$	
	2655 Nov 13 13:01	0° $\text{X}$			2660 Nov 29 02:27	0° $\text{L}$	
					2661 Feb 01 09:34	0° $\text{M}$	

retrograde	2661 Mar 10 20:58	7°♌04'47			2666 Jun 26 06:36	0°♏	
	2661 Apr 14 00:40	30°♌♊		evening set	2666 Jul 27 18:03	20°♏03'55	
opposition	2661 Apr 18 04:18	28°♊25'29	2°07'19		2666 Aug 12 09:33	0°♎	
greatest brilliancy	2661 Apr 18 14:58	28°♊15'14	-1.5m	max. Earth dist.	2666 Sep 08 02:53	16°♎58'28	2.67644 AU
min. Earth dist.	2661 Apr 23 13:32	26°♊21'09	0.62338 AU				
direct	2661 May 29 09:17	18°♊28'04		conjunction	2666 Sep 11 20:24	19°♎20'50	1°02'43
desc. node	2661 Jun 12 15:41	19°♊41'51		minimum elong	2666 Sep 11 21:13	19°♎22'08	1°02'43
	2661 Jul 15 20:39	0°♌			2666 Sep 28 13:17	0°♊	
	2661 Sep 09 03:47	0°♊		morning rise	2666 Oct 26 02:24	17°♊40'50	
	2661 Oct 23 09:56	0°♊			2666 Nov 14 02:57	0°♌	
	2661 Dec 02 17:52	0°♋			2666 Dec 29 18:04	0°♊	
	2662 Jan 10 09:05	0°♋		desc. node	2667 Feb 02 13:17	23°♊19'46	
	2662 Feb 17 17:08	0°♌			2667 Feb 12 09:37	0°♊	
	2662 Mar 28 19:30	0°♌			2667 Mar 28 05:58	0°♋	
asc. node	2662 Apr 14 11:15	12°♌27'41			2667 May 10 19:52	0°♋	
evening set	2662 Apr 26 09:10	21°♌14'14			2667 Jun 24 21:46	0°♌	
	2662 May 08 10:34	0°♌			2667 Aug 20 20:05	0°♌	
	2662 Jun 20 00:48	0°♌		retrograde	2667 Sep 18 16:31	5°♌29'29	
				min. Earth dist.	2667 Oct 15 04:26	0°♌53'36	0.40698 AU
conjunction	2662 Jun 23 11:28	2°♌21'49	0°40'54		2667 Oct 18 02:13	30°♌♎	
minimum elong	2662 Jun 23 09:41	2°♌18'46	0°40'53	opposition	2667 Oct 22 07:49	28°♎40'49	-2°46'46
max. Earth dist.	2662 Jul 21 10:08	21°♌13'59	2.58063 AU	greatest brilliancy	2667 Oct 21 16:43	28°♎52'33	-2.7m
	2662 Aug 03 16:04	0°♏		direct	2667 Nov 21 23:00	23°♎00'00	
morning rise	2662 Aug 14 13:14	7°♏07'34		asc. node	2667 Dec 05 07:47	24°♎07'47	
	2662 Sep 19 03:39	0°♎			2667 Dec 27 01:11	0°♌	
	2662 Nov 06 08:26	0°♊			2668 Feb 26 06:27	0°♌	
	2662 Dec 26 22:28	0°♌			2668 Apr 17 02:35	0°♌	
	2663 Feb 22 01:45	0°♊			2668 Jun 05 06:33	0°♏	
retrograde	2663 Apr 26 15:38	17°♊42'29			2668 Jul 23 18:52	0°♎	
desc. node	2663 Apr 30 13:59	17°♊36'41		evening set	2668 Sep 01 21:59	25°♎13'35	
opposition	2663 May 31 21:15	10°♊27'53	-1°28'59		2668 Sep 09 09:58	0°♊	
greatest brilliancy	2663 Jun 01 07:55	10°♊18'28	-2.1m	max. Earth dist.	2668 Sep 30 13:42	13°♊35'26	2.64293 AU
min. Earth dist.	2663 Jun 09 03:47	7°♊32'59	0.51215 AU				
direct	2663 Jul 09 14:14	1°♊35'31		conjunction	2668 Oct 17 08:57	24°♊31'59	0°34'34
	2663 Sep 23 19:20	0°♊		minimum elong	2668 Oct 17 09:57	24°♊33'37	0°34'34
	2663 Nov 07 12:09	0°♋			2668 Oct 25 16:25	0°♌	
	2663 Dec 18 01:00	0°♋		morning rise	2668 Dec 01 19:55	24°♌54'52	
	2664 Jan 26 15:28	0°♌			2668 Dec 09 06:21	0°♊	
asc. node	2664 Mar 01 10:54	26°♎02'23		desc. node	2668 Dec 20 11:52	7°♊44'52	
	2664 Mar 06 19:53	0°♌			2669 Jan 21 02:55	0°♊	
	2664 Apr 17 10:47	0°♌			2669 Mar 03 10:58	0°♋	
	2664 May 30 21:22	0°♌			2669 Apr 12 16:30	0°♋	
evening set	2664 Jun 16 11:35	11°♌08'12			2669 May 22 12:12	0°♌	
	2664 Jul 15 02:15	0°♏			2669 Jul 02 03:17	0°♌	
					2669 Aug 15 00:29	0°♌	
conjunction	2664 Aug 05 08:38	13°♏47'39	1°07'09		2669 Oct 13 00:08	0°♌	
minimum elong	2664 Aug 05 08:05	13°♏46'47	1°07'08	asc. node	2669 Oct 22 07:41	2°♌33'02	
max. Earth dist.	2664 Aug 15 17:43	20°♏28'23	2.65571 AU	retrograde	2669 Nov 08 16:48	4°♌35'21	
	2664 Aug 30 14:57	0°♎			2669 Dec 04 01:49	30°♌♌	
morning rise	2664 Sep 20 14:35	13°♎21'20		min. Earth dist.	2669 Dec 09 20:12	27°♌56'12	0.53645 AU
	2664 Oct 16 21:33	0°♊		greatest brilliancy	2669 Dec 16 08:49	25°♌26'19	-2.0m
	2664 Dec 03 12:55	0°♌		opposition	2669 Dec 17 02:59	25°♌08'53	2°38'14
	2665 Jan 20 16:03	0°♊		direct	2670 Jan 21 10:45	17°♌17'06	
	2665 Mar 11 08:09	0°♊			2670 Mar 13 19:16	0°♌	
desc. node	2665 Mar 17 13:36	3°♊37'18			2670 May 12 20:10	0°♏	
	2665 May 06 00:22	0°♋			2670 Jul 03 19:49	0°♎	
retrograde	2665 Jul 03 06:50	16°♋20'20			2670 Aug 21 19:15	0°♊	
opposition	2665 Aug 02 20:54	11°♋10'57	-6°27'49		2670 Oct 07 08:32	0°♌	
greatest brilliancy	2665 Aug 03 22:58	10°♋52'43	-2.8m	evening set	2670 Oct 09 20:34	1°♌39'25	
min. Earth dist.	2665 Aug 07 16:11	9°♋50'37	0.38930 AU	max. Earth dist.	2670 Oct 28 03:13	13°♌54'39	2.55748 AU
direct	2665 Sep 03 18:21	5°♋26'54		desc. node	2670 Nov 07 10:25	20°♌56'09	
	2665 Nov 11 06:49	0°♋			2670 Nov 20 13:01	0°♊	
	2665 Dec 28 08:01	0°♌					
asc. node	2666 Jan 17 09:35	13°♎35'54		conjunction	2670 Nov 26 21:22	4°♊26'24	-0°11'25
	2666 Feb 10 09:33	0°♌		minimum elong	2670 Nov 26 20:53	4°♊25'34	0°11'25
	2666 Mar 26 14:38	0°♌		behind sun begin	2670 Nov 26 05:51	3°♊59'12	
	2666 May 10 20:52	0°♌		behind sun end	2670 Nov 27 11:56	4°♊51'58	

	2671 Jan 01 13:09	0° $\text{Z}$		min. Earth dist.	2676 Apr 07 17:10	13° $\text{Z}$ 00'41	0.65140 AU
morning rise	2671 Jan 17 05:28	11° $\text{Z}$ 33'27		direct	2676 May 15 04:43	4° $\text{Z}$ 30'56	
	2671 Feb 10 18:38	0° $\approx$		desc. node	2676 Jun 29 06:46	14° $\text{Z}$ 44'42	
	2671 Mar 21 19:48	0° $\text{X}$			2676 Jul 31 10:00	0° $\text{M}$	
	2671 Apr 29 10:29	0° $\text{Y}$			2676 Sep 19 01:25	0° $\text{Z}$	
	2671 Jun 07 12:37	0° $\text{X}$			2676 Nov 01 02:34	0° $\approx$	
	2671 Jul 18 05:23	0° $\text{II}$			2676 Dec 11 00:08	0° $\text{X}$	
asc. node	2671 Aug 31 05:54	0° $\text{Z}$			2677 Jan 18 09:59	0° $\text{Y}$	
	2671 Sep 09 07:34	5° $\text{Z}$ 44'12			2677 Feb 25 13:25	0° $\text{Y}$	
	2671 Oct 22 15:52	0° $\text{Z}$		evening set	2677 Apr 01 07:14	26° $\text{Y}$ 51'16	
retrograde	2671 Dec 17 13:30	15° $\text{Z}$ 48'46			2677 Apr 05 10:29	0° $\text{X}$	
min. Earth dist.	2672 Jan 22 19:48	7° $\text{Z}$ 21'31	0.63807 AU	asc. node	2677 May 01 04:17	19° $\text{Z}$ 16'43	
opposition	2672 Jan 26 14:31	5° $\text{Z}$ 50'40	4°26'01		2677 May 15 19:44	0° $\text{II}$	
greatest brilliancy	2672 Jan 25 23:35	6° $\text{Z}$ 05'38	-1.5m				
	2672 Feb 11 21:53	30° $\text{R}$ $\text{Z}$		conjunction	2677 Jun 02 21:11	12° $\text{II}$ 58'25	0°20'38
direct	2672 Mar 05 08:42	26° $\text{Z}$ 42'43		minimum elong	2677 Jun 02 19:53	12° $\text{II}$ 56'06	0°20'38
	2672 Mar 29 22:38	0° $\text{Z}$			2677 Jun 27 04:31	0° $\text{Z}$	
	2672 Jun 08 23:17	0° $\text{M}$		max. Earth dist.	2677 Jul 09 05:05	8° $\text{Z}$ 14'46	2.53717 AU
	2672 Jul 31 16:34	0° $\text{Z}$		morning rise	2677 Jul 28 18:23	21° $\text{Z}$ 25'41	
	2672 Sep 17 10:07	0° $\text{M}$			2677 Aug 10 16:55	0° $\text{Z}$	
desc. node	2672 Sep 24 09:15	4° $\text{M}$ 34'39			2677 Sep 26 07:57	0° $\text{M}$	
	2672 Oct 31 18:22	0° $\text{Z}$			2677 Nov 14 06:55	0° $\text{Z}$	
evening set	2672 Nov 22 04:19	15° $\text{Z}$ 12'35			2678 Jan 06 09:37	0° $\text{M}$	
max. Earth dist.	2672 Dec 08 01:41	26° $\text{Z}$ 47'04	2.43254 AU		2678 Mar 26 05:13	0° $\text{Z}$	
	2672 Dec 12 10:14	0° $\text{Z}$		retrograde	2678 Apr 06 16:18	0° $\text{Z}$ 45'45	
					2678 Apr 17 15:27	30° $\text{R}$ $\text{M}$	
conjunction	2673 Jan 17 01:27	26° $\text{Z}$ 53'48	-0°57'59	opposition	2678 May 13 07:42	22° $\text{M}$ 52'12	0°10'23
minimum elong	2673 Jan 16 23:35	26° $\text{Z}$ 50'14	0°57'58	greatest brilliancy	2678 May 13 09:05	22° $\text{M}$ 50'55	-1.8m
	2673 Jan 21 02:16	0° $\approx$		desc. node	2678 May 17 06:21	21° $\text{M}$ 24'20	
morning rise	2673 Feb 28 13:26	0° $\text{X}$		min. Earth dist.	2678 May 20 16:56	20° $\text{M}$ 08'33	0.56139 AU
	2673 Mar 23 07:51	17° $\text{X}$ 55'53		direct	2678 Jun 22 10:01	13° $\text{M}$ 22'09	
	2673 Apr 07 16:15	0° $\text{Y}$			2678 Aug 18 02:57	0° $\text{Z}$	
	2673 May 16 08:02	0° $\text{X}$			2678 Oct 07 00:55	0° $\text{Z}$	
	2673 Jun 25 09:55	0° $\text{II}$			2678 Nov 18 00:24	0° $\approx$	
asc. node	2673 Jul 27 05:50	22° $\text{II}$ 43'03			2678 Dec 27 10:52	0° $\text{X}$	
	2673 Aug 06 19:04	0° $\text{Z}$			2679 Feb 04 08:41	0° $\text{Y}$	
	2673 Sep 21 17:11	0° $\text{Z}$			2679 Mar 15 23:26	0° $\text{X}$	
	2673 Nov 13 20:18	0° $\text{M}$		asc. node	2679 Mar 19 02:24	2° $\text{Z}$ 19'24	
retrograde	2674 Jan 20 04:28	20° $\text{M}$ 14'07			2679 Apr 26 02:26	0° $\text{II}$	
opposition	2674 Mar 01 07:10	10° $\text{M}$ 32'22	4°22'03	evening set	2679 May 29 23:46	23° $\text{II}$ 44'36	
greatest brilliancy	2674 Mar 01 07:03	10° $\text{M}$ 32'29	-1.3m		2679 Jun 08 02:58	0° $\text{Z}$	
min. Earth dist.	2674 Mar 01 09:31	10° $\text{M}$ 30'01	0.67788 AU				
direct	2674 Apr 11 02:13	0° $\text{M}$ 43'35		conjunction	2679 Jul 21 10:42	28° $\text{Z}$ 57'32	1°01'06
	2674 Jul 07 04:46	0° $\text{Z}$		minimum elong	2679 Jul 21 09:31	28° $\text{Z}$ 55'35	1°01'05
desc. node	2674 Aug 12 07:46	20° $\text{Z}$ 31'37			2679 Jul 23 00:47	0° $\text{Z}$	
	2674 Aug 27 17:12	0° $\text{M}$		max. Earth dist.	2679 Aug 07 02:11	9° $\text{Z}$ 49'27	2.63269 AU
	2674 Oct 12 02:59	0° $\text{Z}$		morning rise	2679 Sep 07 09:43	29° $\text{Z}$ 57'50	
	2674 Nov 22 22:54	0° $\text{Z}$			2679 Sep 07 11:04	0° $\text{M}$	
	2675 Jan 01 11:10	0° $\approx$			2679 Oct 24 23:08	0° $\text{Z}$	
evening set	2675 Jan 20 11:15	14° $\approx$ 49'57			2679 Dec 12 09:37	0° $\text{M}$	
	2675 Feb 08 17:01	0° $\text{X}$			2680 Jan 31 12:20	0° $\text{Z}$	
	2675 Mar 18 16:11	0° $\text{Y}$		desc. node	2680 Mar 26 22:35	0° $\text{Z}$	
conjunction	2675 Mar 29 04:41	8° $\text{Y}$ 15'12	-0°46'49	retrograde	2680 Apr 03 04:53	3° $\text{Z}$ 25'27	
minimum elong	2675 Mar 29 08:03	8° $\text{Y}$ 21'46	0°46'47	opposition	2680 Jun 03 01:19	20° $\text{Z}$ 18'12	
	2675 Apr 26 06:51	0° $\text{X}$		greatest brilliancy	2680 Jul 05 09:08	14° $\text{Z}$ 21'23	-4°40'55
max. Earth dist.	2675 May 18 21:45	17° $\text{X}$ 06'29	2.40342 AU	min. Earth dist.	2680 Jul 06 15:26	13° $\text{Z}$ 57'48	-2.5m
	2675 Jun 05 08:11	0° $\text{II}$		direct	2680 Jul 13 05:11	11° $\text{Z}$ 55'37	0.43104 AU
morning rise	2675 Jun 06 01:20	0° $\text{II}$ 31'21			2680 Aug 09 11:29	7° $\text{Z}$ 12'52	
asc. node	2675 Jun 14 04:51	6° $\text{II}$ 26'55			2680 Oct 13 10:40	0° $\approx$	
	2675 Jul 17 10:57	0° $\text{Z}$			2680 Nov 28 12:25	0° $\text{X}$	
	2675 Aug 31 02:46	0° $\text{Z}$		asc. node	2681 Jan 09 14:23	0° $\text{Y}$	
	2675 Oct 18 00:28	0° $\text{M}$			2681 Feb 03 01:23	17° $\text{Y}$ 36'38	
	2675 Dec 10 23:29	0° $\text{Z}$			2681 Feb 20 09:19	0° $\text{X}$	
retrograde	2676 Feb 24 17:15	23° $\text{Z}$ 34'48			2681 Apr 04 05:03	0° $\text{II}$	
opposition	2676 Apr 03 18:36	14° $\text{Z}$ 33'05	3°00'49		2681 May 18 13:17	0° $\text{Z}$	
greatest brilliancy	2676 Apr 04 05:07	14° $\text{Z}$ 22'49	-1.4m	evening set	2681 Jul 12 12:41	5° $\text{Z}$ 54'16	



	2681 Aug 19 04:33	0°♎			2686 Feb 18 09:54	0°♏		
					2686 Mar 29 19:45	0°♏		
conjunction	2681 Aug 28 16:34	6°♎02'55	1°07'33		2686 May 07 18:28	0°♎		
minimum elong	2681 Aug 28 16:58	6°♎03'32	1°07'33		2686 Jun 16 05:06	0°♏		
max. Earth dist.	2681 Aug 30 07:16	7°♎04'29	2.67491 AU		2686 Jul 27 12:48	0°♎		
	2681 Oct 05 07:45	0°♏			2686 Sep 11 09:29	0°♏		
morning rise	2681 Oct 12 08:10	4°♏28'29		asc. node	2686 Sep 25 22:57	8°♏22'06		
	2681 Nov 21 04:40	0°♎			2686 Nov 19 17:40	0°♎		
	2682 Jan 06 12:59	0°♏		retrograde	2686 Dec 03 07:20	1°♎12'36		
desc. node	2682 Feb 19 03:56	28°♏29'14			2686 Dec 16 07:48	30°♏♏		
	2682 Feb 21 11:24	0°♏		min. Earth dist.	2687 Jan 06 17:05	23°♏23'22	0.60513 AU	
	2682 Apr 08 11:17	0°♏		opposition	2687 Jan 11 23:13	21°♏18'07	4°01'40	
	2682 May 26 01:52	0°♏		greatest brilliancy	2687 Jan 11 04:12	21°♏37'01	-1.6m	
	2682 Jul 24 18:52	0°♎		direct	2687 Feb 18 13:29	12°♏34'37		
retrograde	2682 Aug 22 07:32	5°♎06'25			2687 Apr 22 16:01	0°♎		
min. Earth dist.	2682 Sep 19 00:50	0°♎34'25	0.37641 AU		2687 Jun 19 17:24	0°♎		
	2682 Sep 21 02:57	30°♏♏			2687 Aug 09 11:47	0°♏		
opposition	2682 Sep 22 08:24	29°♏39'42	-5°33'51		2687 Sep 25 15:12	0°♎		
greatest brilliancy	2682 Sep 21 21:26	29°♏47'15	-2.9m	desc. node	2687 Oct 12 00:21	10°♎53'54		
direct	2682 Oct 21 21:37	24°♏41'24		evening set	2687 Nov 04 16:33	27°♎05'22		
	2682 Nov 20 11:37	0°♎			2687 Nov 08 20:46	0°♏		
asc. node	2682 Dec 22 01:11	13°♎41'58		max. Earth dist.	2687 Nov 19 08:59	7°♏23'45	2.48431 AU	
	2683 Jan 20 11:19	0°♏			2687 Dec 20 15:14	0°♏		
	2683 Mar 10 13:06	0°♎						
	2683 Apr 27 05:24	0°♏		conjunction	2687 Dec 26 16:02	4°♏27'46	-0°42'20	
	2683 Jun 13 23:30	0°♎		minimum elong	2687 Dec 26 14:14	4°♏24'24	0°42'19	
	2683 Jul 31 19:23	0°♎			2688 Jan 29 11:50	0°♏		
evening set	2683 Aug 19 15:44	11°♎52'42		morning rise	2688 Feb 23 14:22	19°♏24'50		
	2683 Sep 17 04:25	0°♏			2688 Mar 08 03:38	0°♏		
max. Earth dist.	2683 Sep 22 05:05	3°♏13'03	2.66237 AU		2688 Apr 15 10:02	0°♎		
					2688 May 24 04:09	0°♏		
conjunction	2683 Oct 04 00:33	10°♏48'28	0°47'56		2688 Jul 03 08:43	0°♎		
minimum elong	2683 Oct 04 01:39	10°♏50'15	0°47'56	asc. node	2688 Aug 12 22:44	28°♎33'36		
	2683 Nov 02 12:19	0°♎			2688 Aug 15 01:50	0°♏		
morning rise	2683 Nov 17 14:11	9°♎57'47			2688 Oct 01 05:16	0°♎		
	2683 Dec 17 10:00	0°♏			2688 Nov 30 17:27	0°♎		
desc. node	2684 Jan 07 03:10	14°♏11'28		retrograde	2689 Jan 06 20:53	7°♎25'31		
	2684 Jan 29 19:46	0°♏			2689 Feb 09 23:27	30°♏♎		
	2684 Mar 11 21:01	0°♏		min. Earth dist.	2689 Feb 14 16:08	28°♎08'23	0.67025 AU	
	2684 Apr 21 22:49	0°♏		opposition	2689 Feb 16 02:33	27°♎33'53	4°33'24	
	2684 Jun 01 19:26	0°♎		greatest brilliancy	2689 Feb 15 20:27	27°♎39'59	-1.3m	
	2684 Jul 14 03:58	0°♏		direct	2689 Mar 28 06:45	17°♎57'44		
	2684 Sep 01 12:47	0°♎			2689 May 18 05:29	0°♎		
retrograde	2684 Oct 21 18:22	14°♎43'39			2689 Jul 17 08:31	0°♏		
asc. node	2684 Nov 08 00:11	12°♎31'17		desc. node	2689 Aug 28 23:48	25°♏38'27		
min. Earth dist.	2684 Nov 19 16:25	8°♎55'56	0.48469 AU		2689 Sep 04 20:14	0°♎		
opposition	2684 Nov 27 19:30	5°♎58'55	1°04'33		2689 Oct 19 16:37	0°♏		
greatest brilliancy	2684 Nov 27 10:43	6°♎06'54	-2.3m		2689 Nov 30 09:37	0°♏		
	2684 Dec 18 12:33	30°♏♏		evening set	2689 Dec 26 00:57	19°♏18'40		
direct	2684 Dec 31 10:28	28°♏51'52			2690 Jan 08 22:23	0°♏		
	2685 Jan 13 22:09	0°♎			2690 Feb 16 05:28	0°♏		
	2685 Mar 29 23:12	0°♏		max. Earth dist.	2690 Feb 25 20:49	7°♏37'02	2.36996 AU	
	2685 May 22 08:16	0°♎						
	2685 Jul 11 12:51	0°♎		conjunction	2690 Feb 27 19:29	9°♏09'20	-1°02'36	
	2685 Aug 28 20:23	0°♏		minimum elong	2690 Feb 27 21:07	9°♏12'34	1°02'35	
evening set	2685 Sep 24 16:55	17°♏12'27			2690 Mar 26 05:15	0°♎		
	2685 Oct 14 05:40	0°♎			2690 May 03 19:21	0°♏		
max. Earth dist.	2685 Oct 16 16:14	1°♎36'58	2.59679 AU	morning rise	2690 May 09 22:38	4°♏41'12		
					2690 Jun 12 19:28	0°♎		
conjunction	2685 Nov 10 06:26	18°♎08'08	0°07'59	asc. node	2690 Jun 30 20:57	13°♎04'40		
minimum elong	2685 Nov 10 06:43	18°♎08'37	0°08'00		2690 Jul 24 22:20	0°♏		
behind sun begin	2685 Nov 09 13:12	17°♎38'50			2690 Sep 07 20:20	0°♎		
behind sun end	2685 Nov 11 00:15	18°♎38'26			2690 Oct 26 21:02	0°♎		
desc. node	2685 Nov 24 01:43	27°♎36'09			2690 Dec 25 17:28	0°♏		
	2685 Nov 27 12:52	0°♏		retrograde	2691 Feb 10 11:40	10°♏38'12		
morning rise	2685 Dec 28 12:34	21°♏51'07		opposition	2691 Mar 22 02:29	1°♏18'00	3°41'13	
	2686 Jan 08 19:48	0°♏		greatest brilliancy	2691 Mar 22 10:03	1°♏10'32	-1.3m	

min. Earth dist.	2691 Mar 24 13:00	0°♊20'12	0.66982 AU		2696 Apr 12 08:35	0°♊	
	2691 Mar 25 09:32	30°♋♎			2696 May 26 01:03	0°♋	
direct	2691 May 02 11:20	21°♎17'27		evening set	2696 Jun 26 06:50	20°♋45'55	
	2691 Jun 13 03:47	0°♊			2696 Jul 10 09:47	0°♊	
desc. node	2691 Jul 16 22:49	15°♊13'03					
	2691 Aug 12 15:38	0°♎		conjunction	2696 Aug 14 00:59	22°♊21'16	1°08'31
	2691 Sep 28 21:34	0°♋		minimum elong	2696 Aug 14 00:49	22°♊21'00	1°08'30
	2691 Nov 10 06:54	0°♋		max. Earth dist.	2696 Aug 21 04:11	26°♊55'13	2.66478 AU
	2691 Dec 19 22:48	0°♌			2696 Aug 25 23:52	0°♎	
	2692 Jan 27 05:36	0°♋		morning rise	2696 Sep 28 14:05	21°♎22'25	
evening set	2692 Mar 04 14:55	29°♋30'23			2696 Oct 12 04:26	0°♊	
	2692 Mar 05 06:01	0°♎			2696 Nov 28 11:54	0°♎	
	2692 Apr 12 23:09	0°♋			2697 Jan 14 20:39	0°♋	
					2697 Mar 03 19:15	0°♋	
conjunction	2692 May 10 09:06	20°♋36'30	-0°04'55	desc. node	2697 Mar 07 19:12	2°♋27'49	
minimum elong	2692 May 10 09:29	20°♋37'12	0°04'55		2697 Apr 23 01:56	0°♌	
behind sun begin	2692 May 09 07:37	19°♋49'18			2697 Jun 27 16:22	0°♋	
behind sun end	2692 May 11 11:21	21°♋25'02		retrograde	2697 Jul 21 14:46	3°♋24'49	
asc. node	2692 May 17 19:35	26°♋05'28			2697 Aug 14 18:43	30°♋♌	
	2692 May 23 03:50	0°♊		opposition	2697 Aug 20 15:50	28°♌28'05	-6°48'45
max. Earth dist.	2692 Jun 24 10:01	23°♊04'11	2.48720 AU	greatest brilliancy	2697 Aug 21 06:02	28°♌18'39	-2.9m
	2692 Jul 04 08:40	0°♋		min. Earth dist.	2697 Aug 22 19:26	27°♌53'52	0.37587 AU
morning rise	2692 Jul 10 02:33	3°♋57'58		direct	2697 Sep 19 23:05	23°♌19'12	
	2692 Aug 17 20:01	0°♊			2697 Oct 22 22:08	0°♋	
	2692 Oct 03 18:02	0°♎			2697 Dec 18 20:37	0°♎	
	2692 Nov 22 21:09	0°♊		asc. node	2698 Jan 07 16:49	12°♎34'30	
	2693 Jan 19 20:28	0°♎			2698 Feb 03 08:01	0°♋	
retrograde	2693 Mar 20 02:47	15°♎38'05			2698 Mar 20 16:29	0°♊	
opposition	2693 Apr 26 21:34	7°♎13'15	1°29'15		2698 May 05 14:31	0°♋	
greatest brilliancy	2693 Apr 27 06:22	7°♎04'52	-1.6m		2698 Jun 21 09:35	0°♊	
min. Earth dist.	2693 May 03 00:48	4°♎53'16	0.60383 AU	evening set	2698 Aug 05 04:48	28°♊23'59	
	2693 May 17 23:08	30°♋♊			2698 Aug 07 17:28	0°♎	
desc. node	2693 Jun 02 21:16	27°♊28'33		max. Earth dist.	2698 Sep 13 07:10	23°♎12'26	2.67363 AU
direct	2693 Jun 06 19:48	27°♊22'25					
	2693 Jun 27 20:25	0°♎		conjunction	2698 Sep 19 22:07	27°♎25'49	0°58'14
	2693 Sep 01 22:44	0°♋		minimum elong	2698 Sep 19 23:06	27°♎27'23	0°58'13
	2693 Oct 17 12:30	0°♋			2698 Sep 23 22:38	0°♊	
	2693 Nov 27 07:21	0°♌		morning rise	2698 Nov 03 03:44	25°♊55'28	
	2694 Jan 05 04:01	0°♋			2698 Nov 09 09:48	0°♎	
	2694 Feb 12 15:48	0°♎			2698 Dec 24 18:04	0°♋	
	2694 Mar 23 21:10	0°♋		desc. node	2699 Jan 23 18:12	20°♋18'15	
asc. node	2694 Apr 04 19:44	8°♋55'40			2699 Feb 06 21:39	0°♋	
	2694 May 03 15:00	0°♊			2699 Mar 21 23:45	0°♌	
evening set	2694 May 09 06:18	4°♊02'42			2699 May 03 10:06	0°♋	
	2694 Jun 15 07:28	0°♋			2699 Jun 15 06:55	0°♎	
					2699 Aug 01 07:51	0°♋	
conjunction	2694 Jul 04 03:35	12°♋48'23	0°49'54	retrograde	2699 Oct 02 01:13	21°♋08'12	
minimum elong	2694 Jul 04 01:54	12°♋45'33	0°49'54	min. Earth dist.	2699 Oct 29 00:47	16°♋11'16	0.43237 AU
max. Earth dist.	2694 Jul 27 22:22	28°♋38'49	2.60123 AU	opposition	2699 Nov 06 01:03	13°♋32'16	-1°11'51
	2694 Jul 29 23:42	0°♊		greatest brilliancy	2699 Nov 05 17:14	13°♋38'46	-2.6m
morning rise	2694 Aug 23 12:51	15°♊59'39		asc. node	2699 Nov 25 16:34	8°♋18'40	
	2694 Sep 14 09:30	0°♎		direct	2699 Dec 07 18:58	7°♋19'53	
	2694 Nov 01 06:28	0°♊			2700 Feb 16 11:53	0°♊	
	2694 Dec 20 20:59	0°♎			2700 Apr 11 14:43	0°♋	
	2695 Feb 12 09:51	0°♋			2700 May 31 21:33	0°♊	
desc. node	2695 Apr 20 20:01	26°♋53'20			2700 Jul 19 21:55	0°♎	
retrograde	2695 May 09 07:59	28°♋50'31			2700 Sep 05 18:25	0°♊	
opposition	2695 Jun 12 15:46	22°♋01'38	-2°35'05	evening set	2700 Sep 11 02:37	3°♊24'21	
greatest brilliancy	2695 Jun 13 10:26	21°♋45'43	-2.2m	max. Earth dist.	2700 Oct 07 04:32	20°♊13'52	2.62857 AU
min. Earth dist.	2695 Jun 21 04:07	19°♋08'25	0.48293 AU		2700 Oct 22 01:51	0°♎	
direct	2695 Jul 20 07:26	13°♋39'53					
	2695 Sep 12 11:21	0°♋		conjunction	2700 Oct 26 19:50	3°♎08'36	0°25'30
	2695 Oct 30 22:37	0°♌		minimum elong	2700 Oct 26 20:39	3°♎09'57	0°25'30
	2695 Dec 11 14:28	0°♋			2700 Dec 05 13:22	0°♋	
	2696 Jan 20 19:31	0°♎		desc. node	2700 Dec 11 17:39	4°♋16'11	
asc. node	2696 Feb 20 18:47	22°♎57'07		morning rise	2700 Dec 12 01:39	4°♋30'04	
	2696 Mar 01 09:57	0°♋			2701 Jan 17 04:51	0°♋	

	2701 Feb 27 05:57	0°♊		desc. node	2706 Aug 03 13:43	18°♊21'23	
	2701 Apr 08 03:26	0°♋			2706 Aug 23 01:27	0°♌	
	2701 May 17 14:06	0°♌			2706 Oct 08 00:46	0°♍	
	2701 Jun 26 15:32	0°♎			2706 Nov 19 01:19	0°♐	
	2701 Aug 08 04:39	0°♑			2706 Dec 28 14:59	0°♒	
	2701 Sep 27 15:54	0°♓			2707 Feb 04 21:07	0°♋	
asc. node	2701 Oct 13 15:49	7°♓08'49		evening set	2707 Feb 06 00:02	0°♋53'12	
retrograde	2701 Nov 19 00:16	15°♓05'46			2707 Mar 14 20:32	0°♌	
min. Earth dist.	2701 Dec 21 08:55	8°♓00'12	0.56312 AU				
opposition	2701 Dec 27 23:55	5°♓25'18	3°16'31	conjunction	2707 Apr 15 11:20	24°♌37'21	-0°32'44
greatest brilliancy	2701 Dec 27 03:53	5°♓44'50	-1.8m	minimum elong	2707 Apr 15 14:06	24°♌42'41	0°32'42
	2702 Jan 12 19:43	30°♌♑			2707 Apr 22 11:32	0°♎	
direct	2702 Feb 02 04:30	27°♑12'57			2707 Jun 01 13:05	0°♑	
	2702 Feb 24 07:29	0°♓		asc. node	2707 Jun 05 13:15	2°♑55'26	
	2702 May 06 19:48	0°♒		max. Earth dist.	2707 Jun 05 19:27	3°♑06'44	2.43286 AU
	2702 Jun 29 09:26	0°♎		morning rise	2707 Jun 20 15:32	13°♑48'43	
	2702 Aug 17 22:22	0°♊			2707 Jul 13 15:21	0°♓	
	2702 Oct 03 16:40	0°♌			2707 Aug 27 03:35	0°♒	
evening set	2702 Oct 19 20:16	10°♌45'56			2707 Oct 13 13:17	0°♎	
desc. node	2702 Oct 29 16:28	17°♌25'54			2707 Dec 04 14:35	0°♊	
max. Earth dist.	2702 Nov 05 09:55	22°♌02'10	2.53307 AU		2708 Feb 16 23:13	0°♌	
	2702 Nov 16 21:56	0°♍		retrograde	2708 Mar 05 05:36	1°♌40'48	
					2708 Mar 21 10:32	30°♌♊	
conjunction	2702 Dec 08 00:26	14°♍54'33	-0°22'55	opposition	2708 Apr 12 21:43	22°♊50'41	2°31'10
minimum elong	2702 Dec 07 23:26	14°♍52'46	0°22'54	greatest brilliancy	2708 Apr 13 08:35	22°♊40'09	-1.5m
	2702 Dec 28 20:23	0°♐		min. Earth dist.	2708 Apr 17 15:18	21°♊00'36	0.63719 AU
morning rise	2703 Jan 30 15:41	24°♐27'31		direct	2708 May 24 06:04	12°♊50'17	
	2703 Feb 06 22:44	0°♒		desc. node	2708 Jun 20 12:43	17°♊00'26	
	2703 Mar 17 20:09	0°♋			2708 Jul 23 12:31	0°♌	
	2703 Apr 25 07:11	0°♌			2708 Sep 13 22:31	0°♍	
	2703 Jun 03 05:13	0°♎			2708 Oct 27 16:18	0°♐	
	2703 Jul 13 15:20	0°♑			2708 Dec 06 20:07	0°♒	
	2703 Aug 25 23:36	0°♓			2709 Jan 14 08:54	0°♋	
asc. node	2703 Aug 31 13:55	3°♓39'36			2709 Feb 21 14:27	0°♌	
	2703 Oct 14 12:37	0°♒			2709 Apr 01 13:30	0°♎	
retrograde	2703 Dec 26 10:38	24°♒11'58		evening set	2709 Apr 16 19:55	11°♎28'30	
min. Earth dist.	2704 Feb 01 15:53	15°♒25'54	0.65246 AU	asc. node	2709 Apr 22 11:35	15°♎40'34	
opposition	2704 Feb 04 14:57	14°♒14'39	4°32'48		2709 May 12 00:40	0°♑	
greatest brilliancy	2704 Feb 04 02:57	14°♒26'41	-1.4m				
direct	2704 Mar 14 23:03	4°♒55'23		conjunction	2709 Jun 15 21:21	24°♑45'08	0°33'00
	2704 Jun 02 14:26	0°♎		minimum elong	2709 Jun 15 19:38	24°♑42'09	0°32'59
	2704 Jul 27 04:47	0°♊			2709 Jun 23 11:10	0°♓	
	2704 Sep 13 11:46	0°♌		max. Earth dist.	2709 Jul 17 13:09	16°♓23'52	2.56212 AU
desc. node	2704 Sep 15 15:03	1°♌23'22			2709 Aug 06 23:41	0°♒	
	2704 Oct 28 00:33	0°♍		morning rise	2709 Aug 08 12:50	1°♒01'08	
evening set	2704 Dec 04 14:21	26°♍57'17			2709 Sep 22 11:23	0°♎	
	2704 Dec 08 17:22	0°♐			2709 Nov 09 22:05	0°♊	
max. Earth dist.	2704 Dec 24 07:13	11°♐38'20	2.40506 AU		2709 Dec 31 08:29	0°♌	
	2705 Jan 17 08:39	0°♒			2710 Mar 02 15:18	0°♍	
				retrograde	2710 Apr 18 15:03	10°♍35'32	
conjunction	2705 Feb 01 02:46	11°♒26'55	-1°03'21	desc. node	2710 May 08 11:06	8°♍07'24	
minimum elong	2705 Feb 01 01:39	11°♒24'45	1°03'20	opposition	2710 May 24 13:27	3°♍02'20	-0°44'13
	2705 Feb 24 18:23	0°♋		greatest brilliancy	2710 May 24 18:37	2°♍57'40	-2.0m
	2705 Apr 03 19:49	0°♌		min. Earth dist.	2710 Jun 01 12:15	0°♍10'22	0.53495 AU
morning rise	2705 Apr 10 13:21	5°♌16'52			2710 Jun 02 00:05	30°♌♌	
	2705 May 12 10:11	0°♎		direct	2710 Jul 02 23:34	23°♌50'47	
	2705 Jun 21 10:00	0°♑			2710 Aug 04 01:44	0°♍	
asc. node	2705 Jul 18 13:41	19°♑31'06			2710 Sep 30 09:54	0°♐	
	2705 Aug 02 14:53	0°♓			2710 Nov 12 17:29	0°♒	
	2705 Sep 17 00:09	0°♒			2710 Dec 22 17:07	0°♋	
	2705 Nov 07 00:16	0°♎			2711 Jan 30 23:00	0°♌	
retrograde	2706 Jan 28 20:41	27°♎58'47		asc. node	2711 Mar 10 10:49	28°♌58'43	
opposition	2706 Mar 09 20:33	18°♎23'39	4°10'10		2711 Mar 11 19:53	0°♎	
greatest brilliancy	2706 Mar 09 23:27	18°♎20'46	-1.3m		2711 Apr 22 03:49	0°♑	
min. Earth dist.	2706 Mar 10 18:42	18°♎01'36	0.67787 AU		2711 Jun 04 08:30	0°♓	
direct	2706 Apr 19 22:24	8°♎29'31		evening set	2711 Jun 10 17:37	4°♓19'23	
	2706 Jun 30 10:42	0°♊			2711 Jul 19 08:56	0°♒	

conjunction	2711 Jul 31 16:08	8°♏01'11	1°05'11	asc. node	2716 Oct 30 07:34	26°♐47'42	
minimum elong	2711 Jul 31 15:20	7°♏59'52	1°05'11	retrograde	2716 Nov 02 05:43	26°♐51'28	
max. Earth dist.	2711 Aug 13 18:02	16°♏29'03	2.64642 AU	min. Earth dist.	2716 Dec 02 09:31	20°♐35'08	0.51365 AU
	2711 Sep 03 19:41	0°♐		greatest brilliancy	2716 Dec 09 12:01	17°♐55'08	-2.1m
morning rise	2711 Sep 16 14:37	8°♐08'51		opposition	2716 Dec 10 03:28	17°♐40'36	2°03'25
	2711 Oct 21 04:00	0°♑		direct	2717 Jan 13 17:04	10°♐07'45	
	2711 Dec 08 02:34	0°♒			2717 Mar 21 16:04	0°♑	
	2712 Jan 25 23:22	0°♓			2717 May 17 05:06	0°♏	
	2712 Mar 17 11:58	0°♑			2717 Jul 07 09:03	0°♐	
desc. node	2712 Mar 25 10:22	4°♑19'37			2717 Aug 25 02:07	0°♑	
	2712 May 22 00:06	0°♒		evening set	2717 Oct 04 06:27	25°♑49'35	
retrograde	2712 Jun 20 13:40	4°♒50'10			2717 Oct 10 14:34	0°♒	
	2712 Jul 19 15:32	30°♒♑		max. Earth dist.	2717 Oct 24 02:13	8°♒58'36	2.57601 AU
opposition	2712 Jul 21 20:12	29°♑21'43	-5°48'03	desc. node	2717 Nov 15 07:28	24°♒04'05	
greatest brilliancy	2712 Jul 23 03:06	28°♑59'01	-2.7m				
min. Earth dist.	2712 Jul 28 07:18	27°♑28'17	0.40581 AU	conjunction	2717 Nov 20 13:10	27°♒40'54	-0°03'06
direct	2712 Aug 24 04:22	23°♑00'48		minimum elong	2717 Nov 20 13:02	27°♒40'40	0°03'05
	2712 Sep 26 08:12	0°♒		behind sun begin	2717 Nov 19 16:58	27°♒05'59	
	2712 Nov 20 05:41	0°♓		behind sun end	2717 Nov 21 09:06	28°♒15'23	
	2713 Jan 03 10:10	0°♑			2717 Nov 23 21:24	0°♓	
asc. node	2713 Jan 25 09:41	15°♑23'20			2718 Jan 05 01:30	0°♑	
	2713 Feb 15 06:38	0°♒		morning rise	2718 Jan 09 08:27	3°♑07'42	
	2713 Mar 30 17:59	0°♐			2718 Feb 14 11:36	0°♒	
	2713 May 14 12:41	0°♑			2718 Mar 25 16:51	0°♓	
	2713 Jun 29 14:52	0°♏			2718 May 03 10:53	0°♑	
evening set	2713 Jul 22 07:44	14°♏32'50			2718 Jun 11 15:48	0°♒	
	2713 Aug 15 13:55	0°♐			2718 Jul 22 12:30	0°♐	
					2718 Sep 05 01:34	0°♑	
conjunction	2713 Sep 06 19:58	14°♐08'49	1°05'10	asc. node	2718 Sep 17 07:45	7°♑31'53	
minimum elong	2713 Sep 06 20:38	14°♐09'52	1°05'09		2718 Oct 30 14:15	0°♏	
max. Earth dist.	2713 Sep 05 12:02	13°♐18'02	2.67686 AU	retrograde	2718 Dec 12 13:21	10°♏10'44	
	2713 Oct 01 17:23	0°♑		min. Earth dist.	2719 Jan 17 00:14	2°♏00'19	0.62445 AU
morning rise	2713 Oct 21 04:51	12°♑27'39		opposition	2719 Jan 21 11:28	0°♏13'20	4°18'14
	2713 Nov 17 10:18	0°♒		greatest brilliancy	2719 Jan 20 18:22	0°♏30'24	-1.5m
	2714 Jan 02 09:01	0°♓			2719 Jan 22 00:51	30°♒♑	
desc. node	2714 Feb 10 10:21	25°♓54'42		direct	2719 Feb 28 18:19	21°♑15'42	
	2714 Feb 16 13:13	0°♑			2719 Apr 11 20:52	0°♏	
	2714 Apr 02 05:06	0°♒			2719 Jun 14 10:23	0°♐	
	2714 May 17 03:00	0°♓			2719 Aug 05 07:18	0°♑	
	2714 Jul 04 06:09	0°♑			2719 Sep 21 19:54	0°♒	
retrograde	2714 Sep 08 09:03	23°♑06'56		desc. node	2719 Oct 03 06:15	7°♒32'42	
min. Earth dist.	2714 Oct 04 23:47	18°♑39'59	0.39015 AU		2719 Nov 05 04:25	0°♓	
opposition	2714 Oct 10 19:15	16°♑57'57	-4°02'54	evening set	2719 Nov 15 22:30	7°♓33'59	
greatest brilliancy	2714 Oct 10 02:40	17°♑10'06	-2.8m	max. Earth dist.	2719 Nov 30 14:54	18°♓04'39	2.45584 AU
direct	2714 Nov 09 17:25	11°♑40'09			2719 Dec 16 22:34	0°♑	
asc. node	2714 Dec 13 07:48	18°♑13'09					
	2715 Jan 09 11:50	0°♒		conjunction	2720 Jan 08 22:07	17°♑10'53	-0°52'00
	2715 Mar 04 04:18	0°♐		minimum elong	2720 Jan 08 20:08	17°♑07'07	0°52'00
	2715 Apr 22 09:30	0°♑			2720 Jan 25 17:28	0°♒	
	2715 Jun 09 20:46	0°♏			2720 Mar 04 06:55	0°♓	
	2715 Jul 28 01:21	0°♐		morning rise	2720 Mar 11 07:58	5°♓31'58	
evening set	2715 Aug 28 19:45	19°♐58'59			2720 Apr 11 11:07	0°♑	
	2715 Sep 13 14:03	0°♑			2720 May 20 03:16	0°♒	
max. Earth dist.	2715 Sep 28 14:13	9°♑37'14	2.65270 AU		2720 Jun 29 04:51	0°♐	
				asc. node	2720 Aug 04 06:02	25°♐37'24	
conjunction	2715 Oct 13 04:08	19°♑03'10	0°40'30		2720 Aug 10 15:14	0°♑	
minimum elong	2715 Oct 13 05:12	19°♑04'54	0°40'29		2720 Sep 25 21:07	0°♏	
	2715 Oct 29 21:43	0°♒			2720 Nov 19 21:58	0°♐	
morning rise	2715 Nov 27 03:37	18°♒48'12		retrograde	2721 Jan 15 12:16	15°♐17'22	
	2715 Dec 13 15:56	0°♓		opposition	2721 Feb 24 17:02	5°♐30'42	4°28'08
desc. node	2715 Dec 29 09:06	10°♓48'18		min. Earth dist.	2721 Feb 24 02:37	5°♐45'06	0.67574 AU
	2716 Jan 25 18:57	0°♑		greatest brilliancy	2721 Feb 24 14:16	5°♐33'28	-1.3m
	2716 Mar 07 10:56	0°♒			2721 Mar 11 13:24	30°♒♏	
	2716 Apr 17 00:53	0°♓		direct	2721 Apr 06 06:29	25°♏47'10	
	2716 May 27 05:59	0°♑			2721 May 04 11:28	0°♐	
	2716 Jul 07 10:11	0°♒			2721 Jul 11 21:19	0°♑	
	2716 Aug 21 18:03	0°♐		desc. node	2721 Aug 20 05:09	22°♑55'48	

	2721 Aug 31 12:56	0°♌		minimum elong	2726 Jul 15 03:34	22°♊37'10	0°57'01
	2721 Oct 15 18:28	0°♏			2726 Jul 26 07:46	0°♏	
	2721 Nov 26 14:26	0°♎		max. Earth dist.	2726 Aug 03 23:27	5°♏40'10	2.61968 AU
	2722 Jan 05 03:51	0°♐		morning rise	2726 Sep 02 03:29	24°♏31'52	
evening set	2722 Jan 09 23:31	3°♐44'20			2726 Sep 10 16:52	0°♑	
	2722 Feb 12 10:28	0°♑			2726 Oct 28 07:44	0°♑	
					2726 Dec 16 04:29	0°♌	
conjunction	2722 Mar 17 06:19	25°♑57'09	-0°55'23		2727 Feb 05 11:43	0°♏	
minimum elong	2722 Mar 17 09:18	26°♑03'04	0°55'21		2727 Apr 06 22:35	0°♎	
	2722 Mar 22 09:38	0°♑		desc. node	2727 Apr 12 02:03	1°♎59'13	
	2722 Apr 29 23:17	0°♏		retrograde	2727 May 24 06:13	10°♎54'50	
max. Earth dist.	2722 Apr 29 18:10	29°♑50'13	2.38224 AU	opposition	2727 Jun 26 11:55	4°♎34'08	-3°45'46
morning rise	2722 May 26 16:50	20°♏12'30		greatest brilliancy	2727 Jun 27 14:15	4°♎12'43	-2.4m
	2722 Jun 08 22:44	0°♐		min. Earth dist.	2727 Jul 04 20:34	1°♎51'29	0.45377 AU
asc. node	2722 Jun 22 04:50	9°♐38'08			2727 Jul 11 02:43	30°♏♏	
	2722 Jul 20 23:56	0°♊		direct	2727 Aug 01 20:54	26°♏49'46	
	2722 Sep 03 16:10	0°♏			2727 Aug 23 17:38	0°♎	
	2722 Oct 21 21:39	0°♑			2727 Oct 22 23:49	0°♐	
	2722 Dec 16 12:41	0°♑			2727 Dec 05 13:34	0°♑	
retrograde	2723 Feb 19 13:17	18°♑29'11			2728 Jan 15 15:16	0°♑	
opposition	2723 Mar 30 21:20	9°♑18'37	3°18'56	asc. node	2728 Feb 12 01:23	20°♑03'24	
greatest brilliancy	2723 Mar 31 06:43	9°♑09'25	-1.4m		2728 Feb 25 19:03	0°♏	
min. Earth dist.	2723 Apr 03 03:33	8°♑01'51	0.66086 AU		2728 Apr 08 03:17	0°♐	
	2723 Apr 30 17:23	30°♏♑			2728 May 22 02:58	0°♊	
direct	2723 May 11 07:53	29°♑16'41		evening set	2728 Jul 06 17:07	0°♏00'51	
	2723 May 22 09:04	0°♑			2728 Jul 06 16:35	0°♏	
desc. node	2723 Jul 08 03:50	14°♑50'56			2728 Aug 22 09:09	0°♑	
	2723 Aug 06 17:12	0°♌					
	2723 Sep 24 07:06	0°♏		conjunction	2728 Aug 23 12:04	0°♑42'54	1°08'26
	2723 Nov 06 02:21	0°♎		minimum elong	2728 Aug 23 12:15	0°♑43'12	1°08'26
	2723 Dec 15 22:20	0°♐		max. Earth dist.	2728 Aug 27 11:38	3°♑15'16	2.67154 AU
	2724 Jan 23 07:04	0°♑		morning rise	2728 Oct 07 11:34	29°♑20'07	
	2724 Mar 01 08:53	0°♑			2728 Oct 08 12:39	0°♑	
evening set	2724 Mar 21 10:51	15°♑38'52			2728 Nov 24 13:59	0°♌	
	2724 Apr 09 03:28	0°♏			2729 Jan 10 08:28	0°♏	
asc. node	2724 May 09 04:40	22°♏31'33			2729 Feb 26 01:25	0°♎	
	2724 May 19 09:23	0°♐		desc. node	2729 Feb 27 01:08	0°♎37'55	
					2729 Apr 14 12:29	0°♐	
conjunction	2724 May 25 01:08	4°♐06'24	0°10'16		2729 Jun 04 20:01	0°♑	
minimum elong	2724 May 25 00:23	4°♐05'04	0°10'15	retrograde	2729 Aug 09 19:48	21°♑30'23	
behind sun begin	2724 May 24 04:28	3°♐29'01		min. Earth dist.	2729 Sep 08 04:16	16°♑40'20	0.37200 AU
behind sun end	2724 May 25 20:19	4°♐41'05		opposition	2729 Sep 09 01:48	16°♑26'01	-6°23'47
	2724 Jun 30 14:59	0°♊		greatest brilliancy	2729 Sep 09 01:07	16°♑26'28	-2.9m
max. Earth dist.	2724 Jul 04 08:08	2°♊33'59	2.51548 AU	direct	2729 Oct 08 16:16	11°♑31'41	
morning rise	2724 Jul 21 23:20	14°♊36'10			2729 Dec 07 01:11	0°♑	
	2724 Aug 14 01:17	0°♏		asc. node	2729 Dec 30 01:16	12°♑46'38	
	2724 Sep 29 17:40	0°♑			2730 Jan 27 08:33	0°♏	
	2724 Nov 18 01:44	0°♑			2730 Mar 15 10:04	0°♐	
	2725 Jan 11 16:34	0°♌			2730 May 01 04:34	0°♊	
retrograde	2725 Mar 30 19:55	24°♌32'14			2730 Jun 17 10:59	0°♏	
opposition	2725 May 07 00:52	16°♌23'41	0°45'50		2730 Aug 04 01:08	0°♑	
greatest brilliancy	2725 May 07 06:09	16°♌18'45	-1.7m	evening set	2730 Aug 14 12:35	6°♑36'52	
min. Earth dist.	2725 May 13 21:37	13°♌49'27	0.58138 AU	max. Earth dist.	2730 Sep 19 13:03	29°♑28'48	2.66850 AU
desc. node	2725 May 25 03:18	10°♌04'00			2730 Sep 20 08:35	0°♑	
direct	2725 Jun 16 13:48	6°♌42'44					
	2725 Aug 25 12:13	0°♏		conjunction	2730 Sep 28 23:39	5°♑31'22	0°52'37
	2725 Oct 12 04:04	0°♎		minimum elong	2730 Sep 29 00:43	5°♑33'06	0°52'36
	2725 Nov 22 14:21	0°♐			2730 Nov 05 18:22	0°♌	
	2725 Dec 31 18:12	0°♑		morning rise	2730 Nov 12 07:58	4°♌18'36	
	2726 Feb 08 10:49	0°♑			2730 Dec 20 21:18	0°♏	
	2726 Mar 19 20:26	0°♏		desc. node	2731 Jan 15 00:20	17°♏07'11	
asc. node	2726 Mar 27 02:45	5°♏25'19			2731 Feb 02 15:05	0°♎	
	2726 Apr 29 18:01	0°♐			2731 Mar 17 03:03	0°♐	
evening set	2726 May 22 08:04	15°♐59'50			2731 Apr 27 17:34	0°♑	
	2726 Jun 11 13:43	0°♊			2731 Jun 08 07:05	0°♑	
					2731 Jul 21 23:24	0°♏	
conjunction	2726 Jul 15 05:00	22°♊39'33	0°57'02		2731 Sep 16 12:37	0°♐	

retrograde	2731 Oct 15 04:12	5° $\Pi$ 25'30			2736 Sep 08 10:39	0° $\mathbb{M}$	
min. Earth dist.	2731 Nov 12 04:15	0° $\Pi$ 00'57	0.46080 AU		2736 Oct 23 05:12	0° $\mathbb{X}$	
	2731 Nov 12 05:22	30° $\mathbb{R}$ 8			2736 Dec 03 23:12	0° $\mathbb{Z}$	
asc. node	2731 Nov 17 00:39	28° $\mathbb{B}$ 19'33		evening set	2736 Dec 16 22:24	9° $\mathbb{Z}$ 40'24	
opposition	2731 Nov 20 09:38	27° $\mathbb{B}$ 07'55	0°11'38		2737 Jan 12 13:56	0° $\approx$	
greatest brilliancy	2727 Mar 16 02:49	20° $\mathbb{X}$ 18'50	6.7m	max. Earth dist.	2737 Jan 18 01:09	4° $\approx$ 13'57	2.38088 AU
direct	2731 Dec 23 04:30	20° $\mathbb{B}$ 24'18					
	2732 Feb 03 18:21	0° $\Pi$		conjunction	2737 Feb 16 09:04	27° $\approx$ 11'34	-1°04'45
	2732 Apr 04 11:20	0° $\mathbb{E}$		minimum elong	2737 Feb 16 09:23	27° $\approx$ 12'11	1°04'45
	2732 May 26 07:30	0° $\mathbb{Q}$			2737 Feb 19 22:30	0° $\mathbb{H}$	
	2732 Jul 14 23:06	0° $\mathbb{M}$			2737 Mar 29 22:48	0° $\mathbb{Y}$	
	2732 Sep 01 02:10	0° $\mathbb{L}$		morning rise	2737 Apr 27 22:10	22° $\mathbb{Y}$ 36'50	
evening set	2732 Sep 19 09:55	11° $\mathbb{L}$ 42'20			2737 May 07 12:26	0° $\mathbb{B}$	
max. Earth dist.	2732 Oct 13 02:49	27° $\mathbb{L}$ 07'32	2.61207 AU		2737 Jun 16 11:17	0° $\Pi$	
	2732 Oct 17 11:29	0° $\mathbb{M}$		asc. node	2737 Jul 08 21:21	16° $\Pi$ 12'11	
					2737 Jul 28 13:16	0° $\mathbb{E}$	
conjunction	2732 Nov 04 12:35	12° $\mathbb{M}$ 01'21	0°15'37		2737 Sep 11 13:31	0° $\mathbb{Q}$	
minimum elong	2732 Nov 04 13:07	12° $\mathbb{M}$ 02'16	0°15'36		2737 Oct 31 04:11	0° $\mathbb{M}$	
behind sun begin	2732 Nov 04 08:13	11° $\mathbb{M}$ 54'01			2738 Jan 03 19:48	0° $\mathbb{L}$	
behind sun end	2732 Nov 04 18:02	12° $\mathbb{M}$ 10'31		retrograde	2738 Feb 05 14:33	5° $\mathbb{L}$ 41'33	
	2732 Nov 30 21:43	0° $\mathbb{X}$			2738 Mar 07 13:48	30° $\mathbb{R}$ 11	
desc. node	2732 Dec 01 22:55	0° $\mathbb{X}$ 43'32		opposition	2738 Mar 17 10:09	26° $\mathbb{M}$ 14'09	3°54'30
morning rise	2732 Dec 21 18:17	14° $\mathbb{X}$ 33'58		greatest brilliancy	2738 Mar 17 15:45	26° $\mathbb{M}$ 08'36	-1.3m
	2733 Jan 12 09:16	0° $\mathbb{Z}$		min. Earth dist.	2738 Mar 19 04:16	25° $\mathbb{M}$ 32'25	0.67474 AU
	2733 Feb 22 04:53	0° $\approx$		direct	2738 Apr 27 16:58	16° $\mathbb{M}$ 16'01	
	2733 Apr 02 19:58	0° $\mathbb{H}$			2738 Jun 21 01:51	0° $\mathbb{L}$	
	2733 May 11 23:19	0° $\mathbb{Y}$		desc. node	2738 Jul 24 20:02	16° $\mathbb{L}$ 39'53	
	2733 Jun 20 14:56	0° $\mathbb{B}$			2738 Aug 17 01:51	0° $\mathbb{M}$	
	2733 Aug 01 07:10	0° $\Pi$			2738 Oct 02 19:30	0° $\mathbb{X}$	
	2733 Sep 17 09:51	0° $\mathbb{E}$			2738 Nov 14 02:03	0° $\mathbb{Z}$	
asc. node	2733 Oct 03 23:17	8° $\mathbb{E}$ 52'27			2738 Dec 23 17:46	0° $\approx$	
retrograde	2733 Nov 27 21:11	24° $\mathbb{E}$ 57'43			2739 Jan 31 00:25	0° $\mathbb{H}$	
min. Earth dist.	2733 Dec 31 09:34	17° $\mathbb{E}$ 27'43	0.58736 AU	evening set	2739 Feb 22 02:14	17° $\mathbb{H}$ 27'30	
greatest brilliancy	2734 Jan 05 11:16	15° $\mathbb{E}$ 27'48	-1.7m		2739 Mar 09 23:56	0° $\mathbb{Y}$	
opposition	2734 Jan 06 07:23	15° $\mathbb{E}$ 07'58	3°45'51		2739 Apr 17 15:19	0° $\mathbb{B}$	
direct	2734 Feb 12 07:52	6° $\mathbb{E}$ 37'32					
	2734 Apr 28 20:15	0° $\mathbb{Q}$		conjunction	2739 May 01 01:58	10° $\mathbb{B}$ 12'29	-0°16'54
	2734 Jun 23 17:02	0° $\mathbb{M}$		minimum elong	2739 May 01 03:25	10° $\mathbb{B}$ 15'14	0°16'53
	2734 Aug 12 22:51	0° $\mathbb{L}$		asc. node	2739 May 26 19:45	29° $\mathbb{B}$ 20'25	
	2734 Sep 28 23:17	0° $\mathbb{M}$			2739 May 27 17:23	0° $\Pi$	
desc. node	2734 Oct 19 21:19	13° $\mathbb{M}$ 57'10		max. Earth dist.	2739 Jun 18 16:08	15° $\Pi$ 50'18	2.46324 AU
evening set	2734 Oct 29 06:32	20° $\mathbb{M}$ 20'22		morning rise	2739 Jul 03 05:21	26° $\Pi$ 06'17	
	2734 Nov 12 06:04	0° $\mathbb{X}$			2739 Jul 08 19:34	0° $\mathbb{E}$	
max. Earth dist.	2734 Nov 13 13:50	0° $\mathbb{X}$ 55'27	2.50675 AU		2739 Aug 22 05:38	0° $\mathbb{Q}$	
					2739 Oct 08 06:29	0° $\mathbb{M}$	
conjunction	2734 Dec 18 20:38	26° $\mathbb{X}$ 08'00	-0°34'18		2739 Nov 28 00:12	0° $\mathbb{L}$	
minimum elong	2734 Dec 18 19:08	26° $\mathbb{X}$ 05'15	0°34'16		2740 Jan 28 12:13	0° $\mathbb{M}$	
	2734 Dec 24 03:22	0° $\mathbb{Z}$		retrograde	2740 Mar 14 02:31	10° $\mathbb{M}$ 00'33	
	2735 Feb 02 03:26	0° $\approx$		opposition	2740 Apr 21 07:51	1° $\mathbb{M}$ 23'36	1°56'55
morning rise	2735 Feb 13 05:36	8° $\approx$ 30'33		greatest brilliancy	2740 Apr 21 17:56	1° $\mathbb{M}$ 13'55	-1.5m
	2735 Mar 12 22:08	0° $\mathbb{H}$			2740 Apr 24 22:48	30° $\mathbb{R}$ 11	
	2735 Apr 20 06:25	0° $\mathbb{Y}$		min. Earth dist.	2740 Apr 26 20:20	29° $\mathbb{L}$ 16'32	0.62002 AU
	2735 May 29 01:34	0° $\mathbb{B}$		direct	2740 Jun 01 11:59	21° $\mathbb{L}$ 27'28	
	2735 Jul 08 06:57	0° $\Pi$		desc. node	2740 Jun 10 18:14	21° $\mathbb{L}$ 59'08	
	2735 Aug 20 03:34	0° $\mathbb{E}$			2740 Jul 11 12:23	0° $\mathbb{M}$	
asc. node	2735 Aug 21 22:53	1° $\mathbb{E}$ 12'26			2740 Sep 07 06:14	0° $\mathbb{X}$	
	2735 Oct 06 23:07	0° $\mathbb{Q}$			2740 Oct 21 23:57	0° $\mathbb{Z}$	
	2735 Dec 14 11:48	0° $\mathbb{M}$			2740 Dec 01 12:35	0° $\approx$	
retrograde	2736 Jan 03 03:56	2° $\mathbb{M}$ 19'17			2741 Jan 09 05:44	0° $\mathbb{H}$	
	2736 Jan 21 16:30	30° $\mathbb{R}$ 11			2741 Feb 16 14:04	0° $\mathbb{Y}$	
min. Earth dist.	2736 Feb 10 06:59	23° $\mathbb{Q}$ 15'43	0.66352 AU		2741 Mar 27 15:36	0° $\mathbb{B}$	
opposition	2736 Feb 12 10:06	22° $\mathbb{Q}$ 24'30	4°34'49	asc. node	2741 Apr 12 19:45	12° $\mathbb{B}$ 07'16	
greatest brilliancy	2736 Feb 12 01:18	22° $\mathbb{Q}$ 33'19	-1.3m	evening set	2741 Apr 30 10:45	25° $\mathbb{B}$ 05'29	
direct	2736 Mar 23 06:27	12° $\mathbb{Q}$ 55'26			2741 May 07 05:03	0° $\Pi$	
	2736 May 25 00:12	0° $\mathbb{M}$			2741 Jun 18 17:19	0° $\mathbb{E}$	
	2736 Jul 21 10:32	0° $\mathbb{L}$					
desc. node	2736 Sep 05 20:55	28° $\mathbb{L}$ 20'54		conjunction	2741 Jun 27 03:01	5° $\mathbb{E}$ 45'46	0°43'28

minimum elong	2741 Jun 27 01:13	5°♄42'42	0°43'27	greatest brilliancy	2746 Oct 26 04:07	3°♄05'19	-2.7m
max. Earth dist.	2741 Jul 24 10:09	24°♄08'37	2.58468 AU		2746 Nov 05 15:23	30°♄♂	
	2741 Aug 02 06:31	0°♂		direct	2746 Nov 26 14:45	27°♂08'02	
morning rise	2741 Aug 17 20:21	10°♂11'52		asc. node	2746 Dec 03 16:29	27°♂27'30	
	2741 Sep 17 15:54	0°♎			2746 Dec 18 05:32	0°♄	
	2741 Nov 04 17:15	0°♊			2747 Feb 23 17:15	0°♂	
	2741 Dec 24 23:11	0°♌			2747 Apr 16 05:22	0°♄	
	2742 Feb 18 18:55	0°♈			2747 Jun 04 14:51	0°♂	
desc. node	2742 Apr 28 16:59	21°♈03'30			2747 Jul 23 06:01	0°♎	
retrograde	2742 Apr 30 11:20	21°♈04'38		evening set	2747 Sep 05 23:48	28°♎06'20	
opposition	2742 Jun 04 13:50	13°♈54'53	-1°45'12		2747 Sep 08 23:15	0°♊	
greatest brilliancy	2742 Jun 05 02:29	13°♈43'47	-2.1m	max. Earth dist.	2747 Oct 04 01:40	16°♊07'14	2.64029 AU
min. Earth dist.	2742 Jun 12 22:56	10°♈59'11	0.50662 AU				
direct	2742 Jul 13 03:21	5°♈08'01		conjunction	2747 Oct 21 11:38	27°♊28'52	0°32'06
	2742 Sep 21 05:08	0°♄		minimum elong	2747 Oct 21 12:35	27°♊30'26	0°32'05
	2742 Nov 05 19:14	0°♌			2747 Oct 25 07:29	0°♌	
	2742 Dec 16 14:41	0°♈		morning rise	2747 Dec 06 01:59	28°♌02'19	
	2743 Jan 25 07:40	0°♂			2747 Dec 08 22:43	0°♈	
asc. node	2743 Feb 28 18:54	25°♂46'06		desc. node	2747 Dec 19 14:32	7°♈20'45	
	2743 Mar 06 12:43	0°♄			2748 Jan 20 19:54	0°♄	
	2743 Apr 17 03:11	0°♂			2748 Mar 02 03:54	0°♌	
	2743 May 30 12:48	0°♄			2748 Apr 11 08:37	0°♈	
evening set	2743 Jun 20 22:19	14°♄20'53			2748 May 21 02:21	0°♂	
	2743 Jul 14 16:35	0°♂			2748 Jun 30 12:53	0°♄	
					2748 Aug 12 21:21	0°♂	
conjunction	2743 Aug 09 13:53	16°♂47'14	1°07'39		2748 Oct 06 21:26	0°♄	
minimum elong	2743 Aug 09 13:28	16°♂46'32	1°07'39	asc. node	2748 Oct 20 16:14	4°♄41'37	
max. Earth dist.	2743 Aug 19 06:53	23°♂01'40	2.65755 AU	retrograde	2748 Nov 11 23:54	7°♄58'41	
	2743 Aug 30 04:20	0°♎		min. Earth dist.	2748 Dec 13 09:19	1°♄14'56	0.54175 AU
morning rise	2743 Sep 24 16:15	16°♎13'50			2748 Dec 16 15:47	30°♄♂	
	2743 Oct 16 09:56	0°♊		opposition	2748 Dec 20 13:57	28°♂29'11	2°49'42
	2743 Dec 02 23:29	0°♌		greatest brilliancy	2748 Dec 19 18:51	28°♂47'33	-1.9m
	2744 Jan 19 22:18	0°♈		direct	2749 Jan 25 01:58	20°♂33'32	
	2744 Mar 09 03:09	0°♄			2749 Mar 09 07:00	0°♄	
desc. node	2744 Mar 15 16:17	3°♄52'04			2749 May 10 15:41	0°♂	
	2744 May 02 00:07	0°♌			2749 Jul 02 02:18	0°♎	
retrograde	2744 Jul 08 04:34	20°♌45'46			2749 Aug 20 06:54	0°♊	
opposition	2744 Aug 07 15:36	15°♌40'10	-6°35'36		2749 Oct 05 23:41	0°♌	
greatest brilliancy	2744 Aug 08 16:04	15°♌23'19	-2.8m	evening set	2749 Oct 13 00:35	4°♌39'42	
min. Earth dist.	2744 Aug 12 01:04	14°♌27'49	0.38607 AU	max. Earth dist.	2749 Oct 30 21:16	16°♌39'57	2.55313 AU
direct	2744 Sep 08 03:19	10°♌04'14		desc. node	2749 Nov 05 13:29	20°♌32'09	
	2744 Nov 07 17:37	0°♈			2749 Nov 19 06:50	0°♈	
	2744 Dec 26 04:58	0°♂					
asc. node	2745 Jan 15 16:51	13°♂43'55		conjunction	2749 Nov 30 06:01	7°♈40'36	-0°14'26
	2745 Feb 08 16:08	0°♄		minimum elong	2749 Nov 30 05:24	7°♈39'31	0°14'26
	2745 Mar 25 00:57	0°♂		behind sun begin	2749 Nov 29 19:42	7°♈22'25	
	2745 May 09 08:41	0°♄		behind sun end	2749 Nov 30 15:07	7°♈56'37	
	2745 Jun 24 19:04	0°♂			2749 Dec 31 08:43	0°♄	
evening set	2745 Jul 30 22:08	23°♂00'35		morning rise	2750 Jan 21 00:13	15°♄31'14	
	2745 Aug 10 22:31	0°♎			2750 Feb 09 15:05	0°♌	
max. Earth dist.	2745 Sep 10 16:50	19°♎32'09	2.67611 AU		2750 Mar 20 16:13	0°♈	
					2750 Apr 28 05:57	0°♂	
conjunction	2745 Sep 14 22:30	22°♎13'57	1°01'32		2750 Jun 06 06:02	0°♄	
minimum elong	2745 Sep 14 23:23	22°♎15'21	1°01'31		2750 Jul 16 18:52	0°♂	
	2745 Sep 27 02:47	0°♊			2750 Aug 29 10:56	0°♄	
morning rise	2745 Oct 29 04:11	20°♊35'11		asc. node	2750 Sep 07 14:08	5°♄51'09	
	2745 Nov 12 16:46	0°♌			2750 Oct 19 13:34	0°♂	
	2745 Dec 28 07:35	0°♈		retrograde	2750 Dec 20 13:52	18°♂47'11	
desc. node	2746 Jan 31 15:11	23°♈01'45		min. Earth dist.	2751 Jan 26 01:04	10°♂16'39	0.64127 AU
	2746 Feb 10 21:44	0°♄		opposition	2751 Jan 29 16:39	8°♂49'05	4°28'46
	2746 Mar 26 15:08	0°♌		greatest brilliancy	2751 Jan 29 02:10	9°♂03'33	-1.4m
	2746 May 08 23:02	0°♈			2751 Mar 02 03:29	30°♄♄	
	2746 Jun 22 09:30	0°♂		direct	2751 Mar 09 14:42	29°♄38'50	
	2746 Aug 14 01:39	0°♄			2751 Mar 17 07:23	0°♂	
retrograde	2746 Sep 22 21:28	9°♄52'12			2751 Jun 07 14:16	0°♎	
min. Earth dist.	2746 Oct 19 09:22	5°♄12'48	0.41136 AU		2751 Jul 30 23:05	0°♊	
opposition	2746 Oct 26 17:38	2°♄54'40	-2°23'36		2751 Sep 16 23:17	0°♌	

desc. node	2751 Sep 23 12:09	4°♍16'32			2756 Sep 24 19:09	0°♏	
	2751 Oct 31 11:41	0°♏			2756 Nov 12 12:43	0°♏	
evening set	2751 Nov 26 18:27	18°♏40'22			2757 Jan 04 00:12	0°♍	
	2751 Dec 12 06:19	0°♏			2757 Mar 14 02:52	0°♏	
max. Earth dist.	2751 Dec 12 21:35	0°♏28'11	2.42743 AU	retrograde	2757 Apr 10 03:58	3°♏55'31	
	2752 Jan 21 00:02	0°♏			2757 May 05 07:16	30°♏♍	
				desc. node	2757 May 15 08:10	26°♍36'07	
conjunction	2752 Jan 22 02:57	0°♏51'49	-0°59'36	opposition	2757 May 16 17:40	26°♍05'26	-0°03'42
minimum elong	2752 Jan 22 01:14	0°♏48'30	0°59'35	greatest brilliancy	2758 Jun 22 08:32	10°♏32'46	1.6m
	2752 Feb 28 11:48	0°♏		min. Earth dist.	2757 May 24 06:17	23°♍19'39	0.55672 AU
morning rise	2752 Mar 28 01:52	22°♏31'06		direct	2757 Jun 25 18:05	16°♍38'37	
	2752 Apr 06 14:09	0°♏			2757 Aug 14 14:07	0°♏	
	2752 May 15 04:25	0°♏			2757 Oct 05 05:08	0°♏	
	2752 Jun 24 03:38	0°♍			2757 Nov 16 14:23	0°♏	
asc. node	2752 Jul 25 13:24	22°♍30'30			2757 Dec 26 04:32	0°♏	
	2752 Aug 05 08:38	0°♏			2758 Feb 03 03:28	0°♏	
	2752 Sep 19 23:07	0°♏			2758 Mar 14 17:57	0°♏	
	2752 Nov 11 02:36	0°♏		asc. node	2758 Mar 17 10:45	2°♏00'38	
retrograde	2753 Jan 23 03:26	23°♏04'10			2758 Apr 24 19:50	0°♍	
opposition	2753 Mar 04 06:35	13°♏23'21	4°18'56	evening set	2758 Jun 02 14:51	27°♍08'46	
greatest brilliancy	2753 Mar 04 07:01	13°♏22'54	-1.3m		2758 Jun 06 18:57	0°♏	
min. Earth dist.	2753 Mar 04 12:16	13°♏17'40	0.67828 AU		2758 Jul 21 15:22	0°♏	
direct	2753 Apr 14 04:10	3°♏33'28					
	2753 Jul 04 18:13	0°♏		conjunction	2758 Jul 24 18:30	2°♏03'12	1°02'22
desc. node	2753 Aug 10 10:57	20°♏30'03		minimum elong	2758 Jul 24 17:24	2°♏01'25	1°02'22
	2753 Aug 26 01:10	0°♍		max. Earth dist.	2758 Aug 09 19:08	12°♏29'43	2.63547 AU
	2753 Oct 10 18:08	0°♏			2758 Sep 06 00:20	0°♏	
	2753 Nov 21 17:54	0°♏		morning rise	2758 Sep 10 12:26	2°♏52'21	
	2753 Dec 31 08:17	0°♏			2758 Oct 23 10:40	0°♏	
evening set	2754 Jan 24 20:40	19°♏08'40			2758 Dec 10 17:35	0°♍	
	2754 Feb 07 15:02	0°♏			2759 Jan 29 11:19	0°♏	
	2754 Mar 17 14:04	0°♏			2759 Mar 24 13:47	0°♏	
				desc. node	2759 Apr 02 07:16	4°♏19'03	
conjunction	2754 Apr 02 20:17	12°♏44'35	-0°43'43	retrograde	2759 Jun 08 15:58	24°♏19'03	
minimum elong	2754 Apr 02 23:36	12°♏51'03	0°43'41	opposition	2759 Jul 10 18:18	18°♏27'41	-4°57'36
	2754 Apr 25 03:41	0°♏		greatest brilliancy	2759 Jul 12 01:25	18°♏03'39	-2.6m
max. Earth dist.	2754 May 24 00:04	21°♏47'03	2.40876 AU	min. Earth dist.	2759 Jul 18 07:57	16°♏07'59	0.42596 AU
	2754 Jun 04 03:09	0°♍		direct	2759 Aug 14 12:58	11°♏27'50	
morning rise	2754 Jun 10 06:16	4°♍28'46			2759 Oct 10 23:11	0°♏	
asc. node	2754 Jun 12 13:30	6°♍09'09			2759 Nov 27 11:42	0°♏	
	2754 Jul 16 03:11	0°♏			2760 Jan 08 23:20	0°♏	
	2754 Aug 29 15:10	0°♏		asc. node	2760 Feb 02 10:02	17°♏31'26	
	2754 Oct 16 06:05	0°♏			2760 Feb 19 22:01	0°♏	
	2754 Dec 08 09:08	0°♏			2760 Apr 02 19:01	0°♍	
retrograde	2755 Feb 27 19:42	26°♏27'14			2760 May 17 03:20	0°♏	
opposition	2755 Apr 07 20:00	17°♏27'16	2°52'30		2760 Jul 01 22:47	0°♏	
greatest brilliancy	2755 Apr 08 06:26	17°♏17'05	-1.4m	evening set	2760 Jul 15 17:35	8°♏52'59	
min. Earth dist.	2755 Apr 11 21:51	15°♏51'54	0.64909 AU		2760 Aug 17 18:13	0°♏	
direct	2755 May 19 06:37	7°♏25'27					
desc. node	2755 Jun 28 09:46	15°♏46'08		conjunction	2760 Aug 31 17:51	8°♏54'05	1°06'58
	2755 Jul 29 20:25	0°♍		minimum elong	2760 Aug 31 18:20	8°♏54'51	1°06'59
	2755 Sep 18 10:15	0°♏		max. Earth dist.	2760 Sep 01 17:27	9°♏31'39	2.67555 AU
	2755 Oct 31 18:52	0°♏			2760 Oct 03 21:31	0°♏	
	2755 Dec 10 19:48	0°♏		morning rise	2760 Oct 15 07:56	7°♏17'32	
	2756 Jan 18 06:58	0°♏			2760 Nov 19 18:14	0°♍	
	2756 Feb 25 10:22	0°♏			2761 Jan 05 01:15	0°♏	
	2756 Apr 04 06:29	0°♏		desc. node	2761 Feb 17 07:32	28°♏20'14	
evening set	2756 Apr 05 15:58	1°♏03'35			2761 Feb 19 20:14	0°♏	
asc. node	2756 Apr 29 12:02	18°♏55'51			2761 Apr 06 12:37	0°♏	
	2756 May 14 14:09	0°♍			2761 May 23 08:25	0°♏	
					2761 Jul 17 01:11	0°♏	
conjunction	2756 Jun 06 18:45	16°♍38'21	0°23'59	retrograde	2761 Aug 27 00:51	9°♏58'42	
minimum elong	2756 Jun 06 17:18	16°♍35'47	0°23'58	min. Earth dist.	2761 Sep 23 10:07	5°♏30'22	0.37820 AU
	2756 Jun 25 20:58	0°♏		opposition	2761 Sep 27 08:17	4°♏24'59	-5°14'31
max. Earth dist.	2756 Jul 12 05:40	11°♏13'04	2.54215 AU	greatest brilliancy	2761 Sep 26 19:27	4°♏33'54	-2.9m
morning rise	2756 Aug 01 04:56	24°♏38'32			2761 Oct 17 10:15	30°♏♏	
	2756 Aug 09 07:06	0°♏		direct	2761 Oct 26 20:28	29°♏24'16	



	2761 Nov 05 08:48	0°♄			2766 Dec 19 11:14	0°♄
asc. node	2761 Dec 20 08:23	14°♄58'39				
	2762 Jan 17 15:40	0°♄	conjunction	2766 Dec 30 09:48	8°♄06'05	-0°44'55
	2762 Mar 08 13:59	0°♄	minimum elong	2766 Dec 30 07:56	8°♄02'35	0°44'53
	2762 Apr 25 13:07	0°♄		2767 Jan 28 09:04	0°♄	
	2762 Jun 12 10:13	0°♄	morning rise	2767 Feb 27 23:43	23°♄41'48	
	2762 Jul 30 07:52	0°♄		2767 Mar 08 01:13	0°♄	
evening set	2762 Aug 22 17:19	14°♄43'58		2767 Apr 15 07:05	0°♄	
	2762 Sep 15 18:23	0°♄	greatest brilliancy	2767 Apr 27 22:03	9°♄51'41	1.2m
max. Earth dist.	2762 Sep 24 19:48	5°♄47'43	2.66084 AU	2767 May 23 23:46	0°♄	
				2767 Jul 03 01:42	0°♄	
conjunction	2762 Oct 07 01:18	13°♄39'49	0°45'56	asc. node	2767 Aug 12 06:31	28°♄25'31
minimum elong	2762 Oct 07 02:24	13°♄41'36	0°45'55		2767 Aug 14 14:02	0°♄
	2762 Nov 01 03:40	0°♄			2767 Sep 30 06:29	0°♄
morning rise	2762 Nov 20 16:18	12°♄54'31			2767 Nov 27 04:48	0°♄
	2762 Dec 16 02:22	0°♄	retrograde	2768 Jan 10 19:50	10°♄16'17	
desc. node	2763 Jan 05 06:14	13°♄48'03	min. Earth dist.	2768 Feb 18 19:17	0°♄56'31	0.67154 AU
	2763 Jan 28 12:31	0°♄	opposition	2768 Feb 20 02:14	0°♄25'34	4°32'23
	2763 Mar 11 13:18	0°♄	greatest brilliancy	2768 Feb 19 20:47	0°♄31'01	-1.3m
	2763 Apr 21 13:26	0°♄		2768 Feb 21 03:50	30°♄	
	2763 Jun 01 06:12	0°♄	direct	2768 Mar 31 09:05	20°♄48'03	
	2763 Jul 13 05:08	0°♄		2768 May 13 22:45	0°♄	
	2763 Aug 29 22:55	0°♄		2768 Jul 15 07:26	0°♄	
retrograde	2763 Oct 26 07:29	18°♄27'57	desc. node	2768 Aug 27 02:27	25°♄27'56	
asc. node	2763 Nov 07 07:40	17°♄23'18		2768 Sep 03 06:44	0°♄	
min. Earth dist.	2763 Nov 24 11:51	12°♄35'00	0.49005 AU	2768 Oct 18 08:54	0°♄	
opposition	2763 Dec 02 13:51	9°♄37'30	1°21'14	2768 Nov 29 05:21	0°♄	
greatest brilliancy	2763 Dec 02 02:54	9°♄47'32	-2.2m	evening set	2768 Dec 30 02:13	23°♄15'55
direct	2764 Jan 05 08:17	2°♄25'37		2769 Jan 07 20:07	0°♄	
	2764 Mar 27 06:52	0°♄		2769 Feb 15 03:56	0°♄	
	2764 May 20 10:33	0°♄				
	2764 Jul 09 21:43	0°♄	conjunction	2769 Mar 04 09:11	13°♄36'51	-1°01'21
	2764 Aug 27 09:02	0°♄	minimum elong	2769 Mar 04 11:11	13°♄40'47	1°01'20
evening set	2764 Sep 27 19:54	20°♄08'39	max. Earth dist.	2769 Mar 13 10:53	20°♄47'03	2.36978 AU
	2764 Oct 12 21:06	0°♄		2769 Mar 25 03:19	0°♄	
max. Earth dist.	2764 Oct 19 05:59	4°♄13'08	2.59312 AU	2769 May 02 16:05	0°♄	
				morning rise	2769 May 14 12:57	9°♄03'17
conjunction	2764 Nov 13 12:01	21°♄13'21	0°05'04		2769 Jun 11 14:05	0°♄
minimum elong	2764 Nov 13 12:12	21°♄13'39	0°05'03	asc. node	2769 Jun 29 04:52	12°♄47'37
behind sun begin	2764 Nov 12 17:03	20°♄41'01			2769 Jul 23 13:56	0°♄
behind sun end	2764 Nov 14 07:20	21°♄46'19			2769 Sep 06 07:19	0°♄
desc. node	2764 Nov 22 04:34	27°♄11'02			2769 Oct 24 22:16	0°♄
	2764 Nov 26 06:26	0°♄			2769 Dec 21 20:58	0°♄
morning rise	2765 Jan 01 00:31	25°♄14'15	retrograde	2770 Feb 13 12:18	13°♄28'03	
	2765 Jan 07 14:51	0°♄	opposition	2770 Mar 25 02:31	4°♄09'29	3°35'00
	2765 Feb 17 05:46	0°♄	greatest brilliancy	2770 Mar 25 10:23	4°♄01'44	-1.3m
	2765 Mar 28 15:43	0°♄	min. Earth dist.	2770 Mar 27 16:38	3°♄08'18	0.66831 AU
	2765 May 06 13:34	0°♄		2770 Apr 04 23:19	30°♄	
	2765 Jun 14 21:55	0°♄	direct	2770 May 05 12:38	24°♄08'46	
	2765 Jul 26 00:22	0°♄		2770 Jun 07 20:59	0°♄	
	2765 Sep 09 06:39	0°♄	desc. node	2770 Jul 15 00:48	15°♄37'08	
asc. node	2765 Sep 24 07:56	8°♄52'06		2770 Aug 10 14:16	0°♄	
	2765 Nov 09 23:35	0°♄		2770 Sep 27 09:04	0°♄	
retrograde	2765 Dec 06 09:10	4°♄16'35		2770 Nov 09 00:03	0°♄	
	2765 Dec 31 04:56	30°♄		2770 Dec 18 18:57	0°♄	
min. Earth dist.	2766 Jan 09 23:48	26°♄24'00	0.60893 AU		2771 Jan 26 03:09	0°♄
greatest brilliancy	2766 Jan 14 08:20	24°♄40'17	-1.6m		2771 Mar 05 03:43	0°♄
opposition	2766 Jan 15 03:13	24°♄21'33	4°07'21	evening set	2771 Mar 10 04:27	3°♄56'47
direct	2766 Feb 21 21:38	15°♄35'17		greatest brilliancy	2771 Mar 16 13:27	8°♄55'54
	2766 Apr 19 03:43	0°♄			2771 Apr 12 19:59	0°♄
	2766 Jun 17 17:02	0°♄				
	2766 Aug 07 21:02	0°♄	conjunction	2771 May 15 13:54	24°♄35'07	-0°01'05
	2766 Sep 24 05:34	0°♄	minimum elong	2771 May 15 13:59	24°♄35'17	0°01'05
desc. node	2766 Oct 10 03:19	10°♄32'27	behind sun begin	2771 May 14 11:27	23°♄46'21	
	2766 Nov 07 14:33	0°♄	behind sun end	2771 May 16 16:32	25°♄24'08	
evening set	2766 Nov 08 02:16	0°♄	asc. node	2771 May 17 04:54	25°♄46'54	
max. Earth dist.	2766 Nov 22 14:12	10°♄33'07	2.47900 AU		2771 May 22 22:58	0°♄

max. Earth dist.	2771 Jun 28 17:14	26° $\Pi$ 16'36	2.49260 AU	min. Earth dist.	2776 Aug 27 06:27	2° $\text{H}$ 41'32	0.37436 AU
	2771 Jul 04 01:29	0° $\text{E}$			2776 Sep 07 06:19	30° $\text{R}$ $\approx$	
morning rise	2771 Jul 14 17:46	7° $\text{E}$ 22'03		direct	2776 Sep 24 18:37	28° $\approx$ 03'13	
	2771 Aug 17 10:00	0° $\Omega$			2776 Oct 12 00:27	0° $\text{H}$	
	2771 Oct 03 04:01	0° $\text{M}$			2776 Dec 16 02:59	0° $\text{Y}$	
	2771 Nov 21 22:55	0° $\text{E}$		asc. node	2777 Jan 06 01:09	12° $\text{Y}$ 58'16	
	2772 Jan 17 13:33	0° $\text{M}$			2777 Feb 01 09:33	0° $\text{B}$	
retrograde	2772 Mar 23 09:21	18° $\text{M}$ 37'26			2777 Mar 19 00:23	0° $\Pi$	
opposition	2772 Apr 30 02:41	10° $\text{M}$ 15'22	1°17'42		2777 May 04 00:53	0° $\text{E}$	
greatest brilliancy	2772 Apr 30 10:35	10° $\text{M}$ 07'52	-1.6m		2777 Jun 19 21:09	0° $\Omega$	
min. Earth dist.	2772 May 06 09:47	7° $\text{M}$ 52'19	0.59972 AU		2777 Aug 06 05:59	0° $\text{M}$	
desc. node	2772 May 31 24:00	0° $\text{M}$ 58'28		evening set	2777 Aug 08 08:35	1° $\text{M}$ 19'59	
direct	2772 Jun 10 00:12	0° $\text{M}$ 26'17		max. Earth dist.	2777 Sep 15 22:12	25° $\text{M}$ 47'58	2.67303 AU
	2772 Aug 30 17:10	0° $\text{A}$					
	2772 Oct 15 23:00	0° $\text{B}$		conjunction	2777 Sep 22 23:58	0° $\text{E}$ 18'49	0°56'43
	2772 Nov 25 23:31	0° $\approx$		minimum elong	2777 Sep 23 00:59	0° $\text{E}$ 20'26	0°56'42
	2773 Jan 03 22:30	0° $\text{H}$			2777 Sep 22 12:12	0° $\text{E}$	
	2773 Feb 11 10:55	0° $\text{Y}$		morning rise	2777 Nov 06 05:29	28° $\text{E}$ 50'16	
	2773 Mar 22 15:53	0° $\text{B}$			2777 Nov 08 00:15	0° $\text{M}$	
asc. node	2773 Apr 03 03:11	8° $\text{B}$ 35'12			2777 Dec 23 08:46	0° $\text{A}$	
	2773 May 02 08:37	0° $\Pi$		desc. node	2778 Jan 21 21:08	19° $\text{A}$ 58'46	
evening set	2773 May 13 04:23	7° $\Pi$ 45'14			2778 Feb 05 11:39	0° $\text{B}$	
	2773 Jun 13 23:36	0° $\text{E}$			2778 Mar 20 11:47	0° $\approx$	
					2778 May 01 18:15	0° $\text{H}$	
conjunction	2773 Jul 07 15:21	16° $\text{E}$ 04'02	0°51'59		2778 Jun 13 06:33	0° $\text{Y}$	
minimum elong	2773 Jul 07 13:43	16° $\text{E}$ 01'17	0°51'58		2778 Jul 29 03:01	0° $\text{B}$	
	2773 Jul 28 14:12	0° $\Omega$		retrograde	2778 Oct 05 23:00	25° $\text{B}$ 17'43	
max. Earth dist.	2773 Jul 30 17:20	1° $\Omega$ 24'08	2.60506 AU	min. Earth dist.	2778 Nov 02 04:02	20° $\text{B}$ 14'50	0.43758 AU
morning rise	2773 Aug 26 17:03	18° $\Omega$ 58'08		opposition	2778 Nov 10 04:57	17° $\text{B}$ 32'51	-0°50'09
	2773 Sep 12 22:10	0° $\text{M}$		greatest brilliancy	2778 Nov 09 23:22	17° $\text{B}$ 37'34	-2.6m
	2773 Oct 30 16:27	0° $\text{E}$		asc. node	2778 Nov 24 01:00	13° $\text{B}$ 25'53	
	2773 Dec 19 01:10	0° $\text{M}$		direct	2778 Dec 12 03:22	11° $\text{B}$ 14'13	
	2774 Feb 09 20:04	0° $\text{A}$			2779 Feb 13 02:38	0° $\Pi$	
desc. node	2774 Apr 18 23:11	29° $\text{A}$ 03'47			2779 Apr 09 12:52	0° $\text{E}$	
	2774 Apr 22 22:44	0° $\text{B}$			2779 May 30 04:01	0° $\Omega$	
retrograde	2774 May 13 09:29	2° $\text{B}$ 21'04			2779 Jul 18 08:10	0° $\text{M}$	
	2774 Jun 01 20:02	30° $\text{R}$ $\text{A}$			2779 Sep 04 07:19	0° $\text{E}$	
opposition	2774 Jun 16 12:03	25° $\text{A}$ 37'27	-2°52'00	evening set	2779 Sep 14 05:19	6° $\text{E}$ 19'11	
greatest brilliancy	2774 Jun 17 08:50	25° $\text{A}$ 19'55	-2.3m	max. Earth dist.	2779 Oct 09 19:11	22° $\text{E}$ 50'39	2.62574 AU
min. Earth dist.	2774 Jun 25 00:45	22° $\text{A}$ 45'06	0.47738 AU		2779 Oct 20 17:02	0° $\text{M}$	
direct	2774 Jul 23 23:43	17° $\text{A}$ 21'47					
	2774 Sep 08 13:58	0° $\text{B}$		conjunction	2779 Oct 29 23:32	6° $\text{M}$ 08'16	0°22'49
	2774 Oct 28 22:55	0° $\approx$		minimum elong	2779 Oct 30 00:17	6° $\text{M}$ 09'31	0°22'48
	2774 Dec 10 00:43	0° $\text{H}$			2779 Dec 04 06:25	0° $\text{A}$	
	2775 Jan 19 09:17	0° $\text{Y}$		desc. node	2779 Dec 09 19:54	3° $\text{A}$ 50'12	
asc. node	2775 Feb 19 01:18	22° $\text{Y}$ 42'06		morning rise	2779 Dec 15 09:10	7° $\text{A}$ 41'16	
	2775 Mar 01 00:46	0° $\text{B}$			2780 Jan 15 23:10	0° $\text{B}$	
	2775 Apr 11 23:18	0° $\Pi$			2780 Feb 26 00:43	0° $\approx$	
	2775 May 25 15:11	0° $\text{E}$			2780 Apr 05 21:51	0° $\text{H}$	
evening set	2775 Jun 30 16:27	23° $\text{E}$ 56'05			2780 May 15 06:57	0° $\text{Y}$	
	2775 Jul 09 23:20	0° $\Omega$			2780 Jun 24 04:45	0° $\text{B}$	
					2780 Aug 05 09:05	0° $\Pi$	
conjunction	2775 Aug 18 05:05	25° $\Omega$ 18'52	1°08'37		2780 Sep 23 09:39	0° $\text{E}$	
minimum elong	2775 Aug 18 05:01	25° $\Omega$ 18'46	1°08'37	asc. node	2780 Oct 10 23:28	8° $\text{E}$ 25'07	
max. Earth dist.	2775 Aug 24 15:32	29° $\Omega$ 25'48	2.66642 AU	retrograde	2780 Nov 21 05:46	18° $\text{E}$ 22'08	
	2775 Aug 25 12:57	0° $\text{M}$		min. Earth dist.	2780 Dec 23 19:47	11° $\text{E}$ 12'32	0.56793 AU
morning rise	2775 Oct 02 14:52	24° $\text{M}$ 13'47		greatest brilliancy	2780 Dec 29 12:09	8° $\text{E}$ 59'35	-1.8m
	2775 Oct 11 17:04	0° $\text{E}$		opposition	2780 Dec 30 08:37	8° $\text{E}$ 39'37	3°25'46
	2775 Nov 27 23:24	0° $\text{M}$		direct	2781 Feb 04 18:08	0° $\text{E}$ 23'39	
	2776 Jan 14 05:12	0° $\text{A}$			2781 May 03 08:08	0° $\Omega$	
	2776 Mar 01 20:43	0° $\text{B}$			2781 Jun 26 13:42	0° $\text{M}$	
desc. node	2776 Mar 05 22:10	2° $\text{B}$ 31'33			2781 Aug 15 08:56	0° $\text{E}$	
	2776 Apr 20 08:09	0° $\approx$			2781 Oct 01 07:09	0° $\text{M}$	
	2776 Jun 18 14:13	0° $\text{H}$		evening set	2781 Oct 22 03:36	13° $\text{M}$ 54'02	
retrograde	2776 Jul 26 15:27	8° $\text{H}$ 04'27		desc. node	2781 Oct 26 18:18	17° $\text{M}$ 01'25	
opposition	2776 Aug 25 14:36	3° $\text{H}$ 07'55	-6°47'01	max. Earth dist.	2781 Nov 07 09:36	24° $\text{M}$ 59'15	2.52827 AU
greatest brilliancy	2776 Aug 26 02:28	3° $\text{H}$ 00'03	-2.9m		2781 Nov 14 15:16	0° $\text{A}$	

conjunction	2781 Dec 10 13:23	18°♂19'34 -0°25'57	retrograde	2787 Mar 08 09:13	4°♂34'39	
minimum elong	2781 Dec 10 12:15	18°♂17'33 0°25'56		2787 Apr 04 09:42	30°♂♂	
	2781 Dec 26 15:50	0°♂	opposition	2787 Apr 16 00:19	25°♂46'45	2°21'42
morning rise	2782 Feb 02 16:07	28°♂22'17	greatest brilliancy	2787 Apr 16 10:51	25°♂36'33	-1.5m
	2782 Feb 04 19:30	0°♂	min. Earth dist.	2787 Apr 20 21:42	23°♂53'23	0.63434 AU
	2782 Mar 15 17:27	0°♂	direct	2787 May 27 08:55	15°♂47'11	
	2782 Apr 23 04:05	0°♂	desc. node	2787 Jun 18 15:17	18°♂38'55	
	2782 Jun 01 00:34	0°♂		2787 Jul 20 05:13	0°♂	
	2782 Jul 11 07:29	0°♂		2787 Sep 12 03:58	0°♂	
	2782 Aug 23 09:07	0°♂		2787 Oct 26 07:23	0°♂	
asc. node	2782 Aug 28 22:44	3°♂40'34		2787 Dec 05 15:20	0°♂	
	2782 Oct 11 02:51	0°♂		2788 Jan 13 05:48	0°♂	
retrograde	2782 Dec 28 09:47	27°♂05'24		2788 Feb 20 11:28	0°♂	
min. Earth dist.	2783 Feb 03 20:06	18°♂16'05 0.65479 AU		2788 Mar 30 09:30	0°♂	
opposition	2783 Feb 06 15:34	17°♂08'35 4°34'06	asc. node	2788 Apr 19 19:43	15°♂20'06	
greatest brilliancy	2783 Feb 06 04:10	17°♂20'00 -1.4m	evening set	2788 Apr 20 01:00	15°♂29'53	
direct	2783 Mar 18 03:02	7°♂47'16		2788 May 09 18:56	0°♂	
	2783 May 30 20:59	0°♂				
	2783 Jul 25 09:28	0°♂	conjunction	2788 Jun 18 15:50	28°♂17'02	0°35'56
	2783 Sep 12 00:15	0°♂	minimum elong	2788 Jun 18 14:04	28°♂13'58	0°35'55
desc. node	2783 Sep 13 17:40	1°♂06'58		2788 Jun 21 03:20	0°♂	
	2783 Oct 26 17:23	0°♂	max. Earth dist.	2788 Jul 19 12:56	19°♂19'59	2.56659 AU
	2783 Dec 07 12:56	0°♂		2788 Aug 04 13:40	0°♂	
evening set	2783 Dec 08 10:28	0°♂39'47	morning rise	2788 Aug 10 21:48	4°♂10'20	
max. Earth dist.	2783 Dec 29 18:14	16°♂38'04 2.39980 AU		2788 Sep 19 22:52	0°♂	
	2784 Jan 16 05:45	0°♂		2788 Nov 07 05:31	0°♂	
				2788 Dec 28 05:41	0°♂	
conjunction	2784 Feb 05 12:53	15°♂45'45 -1°04'06		2789 Feb 25 08:33	0°♂	
minimum elong	2784 Feb 05 12:05	15°♂44'12 1°04'06	retrograde	2789 Apr 21 07:10	13°♂51'13	
	2784 Feb 23 16:06	0°♂	desc. node	2789 May 05 13:51	12°♂34'49	
	2784 Apr 01 17:16	0°♂	opposition	2789 May 27 02:34	6°♂22'25	-0°59'28
morning rise	2784 Apr 14 11:42	10°♂00'50	greatest brilliancy	2789 May 27 09:33	6°♂16'09	-2.0m
	2784 May 10 06:31	0°♂	min. Earth dist.	2789 Jun 04 04:39	3°♂28'41	0.52974 AU
	2784 Jun 19 04:20	0°♂		2789 Jun 15 06:35	30°♂♂	
asc. node	2784 Jul 15 21:40	19°♂16'16	direct	2789 Jul 05 10:27	27°♂15'07	
	2784 Jul 31 05:55	0°♂		2789 Jul 26 05:49	0°♂	
	2784 Sep 14 09:16	0°♂		2789 Sep 27 05:25	0°♂	
	2784 Nov 03 17:39	0°♂		2789 Nov 10 03:38	0°♂	
	2785 Jan 19 12:28	0°♂		2789 Dec 20 08:22	0°♂	
retrograde	2785 Jan 30 19:20	0°♂45'59		2790 Jan 28 16:08	0°♂	
	2785 Feb 10 15:48	30°♂♂	asc. node	2790 Mar 07 19:03	28°♂41'44	
opposition	2785 Mar 11 19:21	21°♂12'08 4°05'52		2790 Mar 09 13:16	0°♂	
greatest brilliancy	2785 Mar 11 22:46	21°♂08'45 -1.3m		2790 Apr 19 20:29	0°♂	
min. Earth dist.	2785 Mar 12 21:18	20°♂46'23 0.67765 AU		2790 Jun 01 23:57	0°♂	
direct	2785 Apr 21 23:16	11°♂17'10	evening set	2790 Jun 13 06:29	7°♂37'50	
	2785 Jun 26 14:00	0°♂		2790 Jul 16 23:03	0°♂	
desc. node	2785 Jul 31 17:08	18°♂26'08				
	2785 Aug 20 07:43	0°♂	conjunction	2790 Aug 02 22:44	11°♂04'20	1°06'00
	2785 Oct 05 15:37	0°♂	minimum elong	2790 Aug 02 22:01	11°♂03'11	1°06'00
	2785 Nov 16 20:26	0°♂	max. Earth dist.	2790 Aug 15 11:04	19°♂09'33	2.64864 AU
	2785 Dec 26 12:13	0°♂		2790 Sep 01 08:36	0°♂	
	2786 Feb 02 19:02	0°♂	morning rise	2790 Sep 18 16:55	11°♂03'09	
evening set	2786 Feb 09 14:12	5°♂22'32		2790 Oct 18 15:38	0°♂	
	2786 Mar 12 18:03	0°♂		2790 Dec 05 11:48	0°♂	
				2791 Jan 23 02:50	0°♂	
conjunction	2786 Apr 19 02:54	29°♂04'37 -0°28'56		2791 Mar 14 23:02	0°♂	
minimum elong	2786 Apr 19 05:24	29°♂09'23 0°28'54	desc. node	2791 Mar 23 13:25	4°♂48'10	
	2786 Apr 20 07:48	0°♂		2791 May 14 14:46	0°♂	
	2786 May 30 07:30	0°♂	retrograde	2791 Jun 25 06:19	9°♂02'39	
asc. node	2786 Jun 02 19:57	2°♂34'28	opposition	2791 Jul 26 09:46	3°♂39'10	-6°00'55
max. Earth dist.	2786 Jun 09 09:46	7°♂21'21 2.43879 AU	greatest brilliancy	2791 Jul 27 16:08	3°♂17'08	-2.7m
morning rise	2786 Jun 23 17:17	17°♂37'53	min. Earth dist.	2791 Aug 01 13:11	1°♂52'54	0.40157 AU
	2786 Jul 11 07:21	0°♂		2791 Aug 08 16:44	30°♂♂	
	2786 Aug 24 16:26	0°♂	direct	2791 Aug 28 07:48	27°♂27'22	
	2786 Oct 10 20:54	0°♂		2791 Sep 16 19:54	0°♂	
	2786 Dec 01 08:40	0°♂		2791 Nov 17 14:50	0°♂	
	2787 Feb 06 23:21	0°♂		2792 Jan 01 13:06	0°♂	

asc. node	2792 Jan 23 17:19	15° $\Upsilon$ 24'48		behind sun begin	2796 Nov 22 00:44	0° $\text{♊}$ 16'18
	2792 Feb 13 15:45	0° $\text{♋}$		behind sun end	2796 Nov 23 15:06	1° $\text{♊}$ 22'53
	2792 Mar 28 05:30	0° $\text{♌}$			2797 Jan 02 21:02	0° $\text{♋}$
	2792 May 12 01:00	0° $\text{♍}$		morning rise	2797 Jan 12 00:11	6° $\text{♋}$ 40'10
	2792 Jun 27 03:25	0° $\text{♎}$			2797 Feb 12 07:49	0° $\text{♌}$
evening set	2792 Jul 24 12:16	17° $\text{♎}$ 31'21			2797 Mar 23 12:56	0° $\text{♍}$
	2792 Aug 13 02:39	0° $\text{♏}$			2797 May 01 05:58	0° $\text{♎}$
max. Earth dist.	2792 Sep 06 23:00	15° $\text{♏}$ 47'41	2.67692 AU		2797 Jun 09 08:43	0° $\text{♋}$
					2797 Jul 20 01:10	0° $\text{♌}$
conjunction	2792 Sep 08 21:48	17° $\text{♏}$ 02'06	1°04'13		2797 Sep 02 04:14	0° $\text{♍}$
minimum elong	2792 Sep 08 22:32	17° $\text{♏}$ 03'16	1°04'13	asc. node	2797 Sep 14 14:31	7° $\text{♍}$ 45'39
	2792 Sep 29 06:22	0° $\text{♐}$			2797 Oct 25 16:59	0° $\text{♎}$
morning rise	2792 Oct 23 05:56	15° $\text{♐}$ 20'53		retrograde	2797 Dec 14 14:11	13° $\text{♎}$ 10'14
	2792 Nov 14 23:22	0° $\text{♑}$		min. Earth dist.	2798 Jan 19 06:30	4° $\text{♎}$ 55'58 0.62810 AU
	2792 Dec 30 21:26	0° $\text{♒}$		opposition	2798 Jan 23 14:10	3° $\text{♎}$ 12'40 4°22'03
desc. node	2793 Feb 07 12:24	25° $\text{♒}$ 40'00		greatest brilliancy	2798 Jan 22 21:30	3° $\text{♎}$ 29'17 -1.5m
	2793 Feb 13 23:40	0° $\text{♋}$			2798 Jan 31 22:31	30° $\text{♋}$ 00
	2793 Mar 30 11:22	0° $\text{♌}$		direct	2798 Mar 03 01:01	24° $\text{♋}$ 12'17
	2793 May 14 00:08	0° $\text{♍}$			2798 Apr 05 10:09	0° $\text{♎}$
	2793 Jun 29 22:51	0° $\text{♎}$			2798 Jun 11 06:09	0° $\text{♏}$
retrograde	2793 Sep 11 19:49	27° $\text{♎}$ 41'42			2798 Aug 02 15:34	0° $\text{♐}$
min. Earth dist.	2793 Oct 08 06:19	23° $\text{♎}$ 13'39	0.39357 AU		2798 Sep 19 10:03	0° $\text{♑}$
opposition	2793 Oct 14 10:34	21° $\text{♎}$ 24'10	-3°40'02	desc. node	2798 Sep 30 09:25	7° $\text{♑}$ 12'43
greatest brilliancy	2793 Oct 13 18:27	21° $\text{♎}$ 36'08	-2.8m		2798 Nov 02 22:21	0° $\text{♒}$
direct	2793 Nov 13 13:02	16° $\text{♎}$ 01'34		evening set	2798 Nov 18 09:44	10° $\text{♒}$ 53'29
asc. node	2793 Dec 10 16:47	20° $\text{♎}$ 27'06		max. Earth dist.	2798 Dec 03 00:03	21° $\text{♒}$ 22'46 2.45062 AU
	2794 Jan 04 06:45	0° $\text{♋}$			2798 Dec 14 19:06	0° $\text{♋}$
	2794 Feb 28 22:33	0° $\text{♌}$				
	2794 Apr 19 14:27	0° $\text{♍}$		conjunction	2799 Jan 11 19:17	20° $\text{♋}$ 57'26 -0°54'06
	2794 Jun 07 05:52	0° $\text{♎}$		minimum elong	2799 Jan 11 17:19	20° $\text{♋}$ 53'42 0°54'05
	2794 Jul 25 12:47	0° $\text{♏}$			2799 Jan 23 15:31	0° $\text{♌}$
evening set	2794 Aug 30 21:26	22° $\text{♏}$ 51'21			2799 Mar 03 05:27	0° $\text{♍}$
	2794 Sep 11 03:21	0° $\text{♐}$		morning rise	2799 Mar 15 22:19	9° $\text{♍}$ 59'01
max. Earth dist.	2794 Sep 30 04:29	12° $\text{♐}$ 12'26	2.65044 AU		2799 Apr 10 09:08	0° $\text{♎}$
					2799 May 18 23:41	0° $\text{♋}$
conjunction	2794 Oct 15 06:09	21° $\text{♐}$ 58'18	0°38'13		2799 Jun 27 22:35	0° $\text{♌}$
minimum elong	2794 Oct 15 07:11	22° $\text{♐}$ 00'00	0°38'13	asc. node	2799 Aug 02 13:26	25° $\text{♌}$ 25'40
	2794 Oct 27 12:33	0° $\text{♑}$			2799 Aug 09 04:36	0° $\text{♍}$
morning rise	2794 Nov 29 08:24	21° $\text{♑}$ 52'11			2799 Sep 24 01:50	0° $\text{♎}$
	2794 Dec 11 07:50	0° $\text{♒}$			2799 Nov 16 18:57	0° $\text{♏}$
desc. node	2794 Dec 26 11:18	10° $\text{♒}$ 24'11		retrograde	2800 Jan 18 10:45	18° $\text{♏}$ 06'50
	2795 Jan 23 11:18	0° $\text{♋}$		opposition	2800 Feb 27 16:36	8° $\text{♏}$ 21'07 4°25'50
	2795 Mar 06 03:03	0° $\text{♌}$		min. Earth dist.	2800 Feb 27 06:04	8° $\text{♏}$ 31'38 0.67665 AU
	2795 Apr 15 15:59	0° $\text{♍}$		greatest brilliancy	2800 Feb 27 14:30	8° $\text{♏}$ 23'13 -1.3m
	2795 May 25 18:43	0° $\text{♎}$			2800 Mar 24 12:34	30° $\text{♏}$ 00
	2795 Jul 05 17:10	0° $\text{♋}$		direct	2800 Apr 08 08:50	28° $\text{♏}$ 36'10
	2795 Aug 19 06:55	0° $\text{♌}$			2800 Apr 24 00:38	0° $\text{♏}$
asc. node	2795 Oct 28 16:37	29° $\text{♌}$ 53'42			2800 Jul 08 15:56	0° $\text{♐}$
	2795 Oct 29 16:37	0° $\text{♍}$		desc. node	2800 Aug 17 08:07	22° $\text{♐}$ 49'14
retrograde	2795 Nov 05 14:30	0° $\text{♍}$ 20'36			2800 Aug 28 22:31	0° $\text{♑}$
	2795 Nov 12 10:07	30° $\text{♋}$ 00			2800 Oct 13 10:26	0° $\text{♒}$
min. Earth dist.	2795 Dec 06 00:02	23° $\text{♌}$ 59'42	0.51912 AU		2800 Nov 24 10:03	0° $\text{♋}$
opposition	2795 Dec 13 16:28	21° $\text{♌}$ 05'57	2°16'49		2801 Jan 03 01:32	0° $\text{♌}$
greatest brilliancy	2795 Dec 12 23:40	21° $\text{♌}$ 21'48	-2.1m	evening set	2801 Jan 13 04:59	7° $\text{♌}$ 52'29
direct	2796 Jan 17 10:41	13° $\text{♌}$ 28'48			2801 Feb 10 09:02	0° $\text{♍}$
	2796 Mar 17 06:43	0° $\text{♍}$				
	2796 May 14 04:18	0° $\text{♎}$		conjunction	2801 Mar 20 21:51	0° $\text{♎}$ 27'07 -0°52'59
	2796 Jul 04 16:53	0° $\text{♏}$		minimum elong	2801 Mar 21 01:02	0° $\text{♎}$ 33'23 0°52'58
	2796 Aug 22 14:26	0° $\text{♐}$			2801 Mar 20 08:04	0° $\text{♎}$
evening set	2796 Oct 06 09:31	28° $\text{♐}$ 46'38			2801 Apr 27 20:38	0° $\text{♋}$
	2796 Oct 08 06:06	0° $\text{♑}$		max. Earth dist.	2801 May 05 13:34	5° $\text{♋}$ 53'38 2.38673 AU
max. Earth dist.	2796 Oct 25 16:18	11° $\text{♑}$ 35'48	2.57189 AU	morning rise	2801 May 30 02:00	24° $\text{♋}$ 20'01
desc. node	2796 Nov 12 10:38	23° $\text{♑}$ 39'27			2801 Jun 06 18:08	0° $\text{♌}$
	2796 Nov 21 15:20	0° $\text{♒}$		asc. node	2801 Jun 19 13:38	9° $\text{♌}$ 20'26
					2801 Jul 18 16:30	0° $\text{♍}$
conjunction	2796 Nov 22 20:09	0° $\text{♒}$ 49'59	-0°06'05		2801 Sep 01 04:34	0° $\text{♎}$
minimum elong	2796 Nov 22 19:55	0° $\text{♒}$ 49'35	0°06'06		2801 Oct 19 02:18	0° $\text{♏}$

	2801 Dec 12 15:11	0°♄			2807 Apr 06 17:49	0°♄		
retrograde	2802 Feb 21 13:58	21°♄19'01			2807 May 20 17:08	0°♄		
opposition	2802 Apr 01 21:40	12°♄10'12	3°11'30		2807 Jul 05 06:11	0°♄		
greatest brilliancy	2802 Apr 02 07:10	12°♄00'53	-1.4m	evening set	2807 Jul 09 23:24	3°♄03'30		
min. Earth dist.	2802 Apr 05 07:54	10°♄49'42	0.65901 AU		2807 Aug 20 22:21	0°♄		
direct	2802 May 13 09:33	2°♄08'08						
desc. node	2802 Jul 05 06:42	15°♄32'44		conjunction	2807 Aug 26 14:05	3°♄36'25	1°08'07	
	2802 Aug 03 10:34	0°♄		minimum elong	2807 Aug 26 14:20	3°♄36'50	1°08'08	
	2802 Sep 21 17:49	0°♄		max. Earth dist.	2807 Aug 29 22:09	5°♄43'59	2.67249 AU	
	2802 Nov 03 19:34	0°♄			2807 Oct 07 01:40	0°♄		
	2802 Dec 13 18:34	0°♄		morning rise	2807 Oct 10 11:39	2°♄10'22		
	2803 Jan 21 04:31	0°♄			2807 Nov 23 02:24	0°♄		
	2803 Feb 28 06:19	0°♄			2808 Jan 08 18:54	0°♄		
evening set	2803 Mar 25 22:37	19°♄59'15			2808 Feb 24 07:01	0°♄		
	2803 Apr 07 23:58	0°♄		desc. node	2808 Feb 25 04:26	0°♄34'28		
asc. node	2803 May 07 12:30	22°♄10'17			2808 Apr 11 06:58	0°♄		
	2803 May 18 04:16	0°♄			2808 May 31 03:30	0°♄		
				retrograde	2808 Aug 13 16:58	26°♄25'53		
conjunction	2803 May 29 02:23	7°♄55'06	0°13'53	min. Earth dist.	2808 Sep 11 14:57	21°♄42'23	0.37230 AU	
minimum elong	2803 May 29 01:24	7°♄53'22	0°13'53	opposition	2808 Sep 13 04:17	21°♄17'21	-6°11'08	
behind sun begin	2803 May 28 12:52	7°♄30'47		greatest brilliancy	2808 Sep 13 00:37	21°♄19'49	-2.9m	
behind sun end	2803 May 29 13:57	8°♄15'56		direct	2808 Oct 12 16:55	16°♄23'22		
	2803 Jun 29 07:49	0°♄			2808 Dec 01 10:17	0°♄		
max. Earth dist.	2803 Jul 07 08:24	5°♄32'35	2.52072 AU	asc. node	2808 Dec 27 08:50	13°♄36'06		
morning rise	2803 Jul 25 12:13	17°♄54'02			2809 Jan 23 23:51	0°♄		
	2803 Aug 12 15:36	0°♄			2809 Mar 12 14:01	0°♄		
	2803 Sep 28 04:34	0°♄			2809 Apr 28 13:18	0°♄		
	2803 Nov 16 06:11	0°♄			2809 Jun 14 21:52	0°♄		
	2804 Jan 09 00:58	0°♄			2809 Aug 01 13:22	0°♄		
retrograde	2804 Apr 02 05:01	27°♄36'56		evening set	2809 Aug 16 14:48	9°♄30'00		
opposition	2804 May 09 08:31	19°♄31'37	0°32'51		2809 Sep 17 22:04	0°♄		
greatest brilliancy	2804 May 09 12:25	19°♄27'59	-1.8m	max. Earth dist.	2809 Sep 21 03:44	2°♄03'59	2.66738 AU	
min. Earth dist.	2804 May 16 09:08	16°♄54'31	0.57708 AU					
desc. node	2804 May 22 05:13	14°♄51'09		conjunction	2809 Oct 01 00:32	8°♄23'16	0°50'47	
direct	2804 Jun 18 20:35	9°♄52'59		minimum elong	2809 Oct 01 01:37	8°♄25'01	0°50'47	
	2804 Aug 21 17:52	0°♄			2809 Nov 03 09:00	0°♄		
	2804 Oct 09 12:01	0°♄		morning rise	2809 Nov 14 09:42	7°♄14'31		
	2804 Nov 20 06:01	0°♄			2809 Dec 18 12:42	0°♄		
	2804 Dec 29 12:50	0°♄		desc. node	2810 Jan 12 03:02	16°♄45'10		
	2805 Feb 06 06:12	0°♄			2810 Jan 31 06:29	0°♄		
	2805 Mar 17 15:17	0°♄			2810 Mar 14 17:27	0°♄		
asc. node	2805 Mar 24 10:52	5°♄05'42			2810 Apr 25 05:30	0°♄		
	2805 Apr 27 11:33	0°♄			2810 Jun 05 13:39	0°♄		
evening set	2805 May 25 01:35	19°♄30'55			2810 Jul 18 15:41	0°♄		
	2805 Jun 09 05:40	0°♄			2810 Sep 09 05:41	0°♄		
				retrograde	2810 Oct 17 20:56	9°♄23'03		
conjunction	2805 Jul 17 14:14	25°♄49'21	0°58'39	asc. node	2810 Nov 14 07:42	4°♄09'53		
minimum elong	2805 Jul 17 12:53	25°♄47'07	0°58'38	min. Earth dist.	2810 Nov 15 02:55	3°♄53'29	0.46618 AU	
	2805 Jul 23 22:07	0°♄		opposition	2810 Nov 23 08:41	0°♄58'22	0°30'51	
max. Earth dist.	2805 Aug 05 18:01	8°♄24'12	2.62288 AU	greatest brilliancy	2810 Nov 23 04:19	1°♄02'14	-2.4m	
morning rise	2805 Sep 04 06:55	27°♄28'35			2810 Nov 26 03:22	30°♄09'22		
	2805 Sep 08 05:40	0°♄		direct	2810 Dec 26 06:56	24°♄09'22		
	2805 Oct 25 18:22	0°♄			2811 Jan 27 14:06	0°♄		
	2805 Dec 13 10:39	0°♄			2811 Apr 02 01:32	0°♄		
	2806 Feb 02 05:55	0°♄			2811 May 24 11:11	0°♄		
	2806 Apr 01 07:04	0°♄			2811 Jul 13 08:10	0°♄		
desc. node	2806 Apr 09 04:13	3°♄20'04			2811 Aug 30 14:32	0°♄		
retrograde	2806 May 27 16:25	14°♄44'13		evening set	2811 Sep 22 12:30	14°♄37'57		
opposition	2806 Jun 29 16:08	8°♄28'57	-4°03'16	max. Earth dist.	2811 Oct 15 16:50	29°♄44'18	2.60873 AU	
greatest brilliancy	2806 Jun 30 20:01	8°♄06'25	-2.4m		2811 Oct 16 02:22	0°♄		
min. Earth dist.	2806 Jul 07 20:47	5°♄50'37	0.44837 AU					
direct	2806 Aug 04 18:21	0°♄52'24		conjunction	2811 Nov 07 16:49	15°♄03'48	0°12'46	
	2806 Oct 19 09:31	0°♄		minimum elong	2811 Nov 07 17:17	15°♄04'34	0°12'46	
	2806 Dec 02 18:40	0°♄		behind sun begin	2811 Nov 07 05:07	14°♄44'04		
	2807 Jan 13 02:50	0°♄		behind sun end	2811 Nov 08 05:27	15°♄25'04		
asc. node	2807 Feb 09 10:13	19°♄55'01			2811 Nov 29 14:37	0°♄		
	2807 Feb 23 09:03	0°♄		desc. node	2811 Nov 30 01:32	0°♄18'49		

morning rise	2811 Dec 25 03:46	17°♄51'27		greatest brilliancy	2817 Mar 19 16:02	28°♄58'53	-1.3m
	2812 Jan 11 03:35	0°♄		min. Earth dist.	2817 Mar 21 08:14	28°♄19'11	0.67375 AU
	2812 Feb 20 23:59	0°♄		direct	2817 Apr 29 18:39	19°♄06'07	
	2812 Mar 31 15:04	0°♄			2817 Jun 16 05:25	0°♄	
	2812 May 09 17:28	0°♄		desc. node	2817 Jul 21 21:45	16°♄53'30	
	2812 Jun 18 06:22	0°♄			2817 Aug 14 03:49	0°♄	
	2812 Jul 29 16:12	0°♄			2817 Sep 30 08:26	0°♄	
	2812 Sep 13 23:23	0°♄			2817 Nov 11 20:11	0°♄	
asc. node	2812 Oct 01 07:42	9°♄38'00			2817 Dec 21 14:43	0°♄	
retrograde	2812 Nov 30 01:15	28°♄07'42			2818 Jan 28 22:38	0°♄	
min. Earth dist.	2813 Jan 02 18:33	20°♄33'53	0.59161 AU	evening set	2818 Feb 25 15:47	21°♄54'28	
opposition	2813 Jan 08 13:35	18°♄16'56	3°52'57		2818 Mar 07 22:12	0°♄	
greatest brilliancy	2813 Jan 07 17:27	18°♄36'47	-1.7m		2818 Apr 15 12:36	0°♄	
direct	2813 Feb 14 18:21	9°♄43'15					
	2813 Apr 24 20:19	0°♄		conjunction	2818 May 04 10:10	14°♄20'03	-0°13'02
	2813 Jun 20 18:24	0°♄		minimum elong	2818 May 04 11:17	14°♄22'08	0°13'01
	2813 Aug 10 08:28	0°♄		behind sun begin	2818 May 03 18:58	13°♄51'30	
	2813 Sep 26 13:35	0°♄		behind sun end	2818 May 05 03:36	14°♄52'44	
desc. node	2813 Oct 17 00:17	13°♄35'18		asc. node	2818 May 24 04:56	29°♄01'27	
evening set	2813 Oct 31 14:39	23°♄31'17			2818 May 25 12:51	0°♄	
	2813 Nov 09 23:35	0°♄		max. Earth dist.	2818 Jun 21 03:40	19°♄11'47	2.46879 AU
max. Earth dist.	2813 Nov 15 12:57	3°♄52'49	2.50162 AU	morning rise	2818 Jul 05 23:53	29°♄37'48	
					2818 Jul 06 12:38	0°♄	
conjunction	2813 Dec 21 11:38	29°♄39'10	-0°37'06		2818 Aug 19 19:43	0°♄	
minimum elong	2813 Dec 21 10:02	29°♄36'14	0°37'05		2818 Oct 05 16:07	0°♄	
	2813 Dec 21 23:01	0°♄			2818 Nov 24 23:54	0°♄	
	2814 Jan 31 00:17	0°♄			2819 Jan 23 09:42	0°♄	
morning rise	2814 Feb 16 10:33	12°♄37'11		retrograde	2819 Mar 17 07:41	12°♄57'11	
	2814 Mar 10 19:21	0°♄		opposition	2819 Apr 24 12:07	4°♄22'53	1°46'15
	2814 Apr 18 03:10	0°♄		greatest brilliancy	2819 Apr 24 21:37	4°♄13'48	-1.6m
	2814 May 26 20:56	0°♄		min. Earth dist.	2819 Apr 30 04:54	2°♄12'12	0.61630 AU
	2814 Jul 05 23:33	0°♄			2819 May 06 05:40	30°♄	
	2814 Aug 17 14:51	0°♄		direct	2819 Jun 04 16:21	24°♄27'56	
asc. node	2814 Aug 19 06:45	1°♄07'14		desc. node	2819 Jun 08 20:42	24°♄34'33	
	2814 Oct 03 20:59	0°♄			2819 Jul 06 01:55	0°♄	
	2814 Dec 05 19:56	0°♄			2819 Sep 05 05:58	0°♄	
retrograde	2815 Jan 05 03:13	5°♄11'26			2819 Oct 20 12:20	0°♄	
	2815 Feb 02 04:30	30°♄			2819 Nov 30 05:57	0°♄	
min. Earth dist.	2815 Feb 12 11:04	26°♄04'44	0.66528 AU		2820 Jan 08 01:12	0°♄	
opposition	2815 Feb 14 10:14	25°♄17'34	4°34'40		2820 Feb 15 10:07	0°♄	
greatest brilliancy	2815 Feb 14 02:07	25°♄25'40	-1.3m		2820 Mar 25 11:11	0°♄	
direct	2815 Mar 26 09:19	15°♄46'41		asc. node	2820 Apr 10 03:37	11°♄46'14	
	2815 May 21 13:34	0°♄		evening set	2820 May 03 11:41	28°♄55'12	
	2815 Jul 19 11:56	0°♄			2820 May 04 23:27	0°♄	
desc. node	2815 Sep 03 23:19	28°♄07'10			2820 Jun 16 10:06	0°♄	
	2815 Sep 06 22:05	0°♄					
	2815 Oct 21 21:58	0°♄		conjunction	2820 Jun 29 16:48	9°♄05'54	0°45'53
	2815 Dec 02 19:17	0°♄		minimum elong	2820 Jun 29 15:02	9°♄02'54	0°45'52
evening set	2815 Dec 20 20:25	13°♄28'27		max. Earth dist.	2820 Jul 26 03:42	26°♄51'48	2.58885 AU
	2816 Jan 11 11:53	0°♄			2820 Jul 30 21:27	0°♄	
max. Earth dist.	2816 Jan 25 00:42	10°♄29'58	2.37726 AU	morning rise	2820 Aug 20 01:49	13°♄12'37	
	2816 Feb 18 21:05	0°♄			2820 Sep 15 04:44	0°♄	
					2820 Nov 02 02:55	0°♄	
conjunction	2816 Feb 20 20:31	1°♄33'33	-1°04'24		2820 Dec 22 01:37	0°♄	
minimum elong	2816 Feb 20 21:14	1°♄34'59	1°04'24		2821 Feb 14 19:33	0°♄	
	2816 Mar 27 20:58	0°♄		desc. node	2821 Apr 25 20:11	24°♄06'11	
morning rise	2816 May 01 16:14	27°♄08'48		retrograde	2821 May 03 08:36	24°♄26'14	
	2816 May 05 09:15	0°♄		opposition	2821 Jun 07 06:04	17°♄21'22	-2°01'25
	2816 Jun 14 05:54	0°♄		greatest brilliancy	2821 Jun 07 20:47	17°♄08'34	-2.1m
asc. node	2816 Jul 06 04:57	15°♄55'16		min. Earth dist.	2821 Jun 15 16:48	14°♄25'11	0.50113 AU
	2816 Jul 26 04:44	0°♄		direct	2821 Jul 15 16:17	8°♄39'23	
	2816 Sep 08 23:53	0°♄			2821 Sep 17 09:42	0°♄	
	2816 Oct 28 02:57	0°♄			2821 Nov 03 00:57	0°♄	
	2816 Dec 28 14:08	0°♄			2821 Dec 14 03:27	0°♄	
retrograde	2817 Feb 07 14:14	8°♄30'38			2822 Jan 22 22:57	0°♄	
	2817 Mar 17 02:02	30°♄		asc. node	2822 Feb 26 01:23	25°♄28'42	
opposition	2817 Mar 19 10:00	29°♄04'52	3°49'01		2822 Mar 04 04:38	0°♄	

	2822 Apr 14 18:46	0°♄			2827 May 19 17:30	0°♄	
	2822 May 28 03:39	0°♄			2827 Jun 28 23:39	0°♄	
evening set	2822 Jun 23 09:46	17°♄35'01			2827 Aug 10 20:41	0°♄	
	2822 Jul 12 06:38	0°♄			2827 Oct 02 05:07	0°♄	
				asc. node	2827 Oct 18 23:43	6°♄34'34	
conjunction	2822 Aug 11 18:56	19°♄46'33	1°08'03	retrograde	2827 Nov 15 07:13	11°♄21'17	
minimum elong	2822 Aug 11 18:36	19°♄46'02	1°08'03	min. Earth dist.	2827 Dec 16 21:46	4°♄33'15	0.54693 AU
max. Earth dist.	2822 Aug 20 21:16	25°♄36'57	2.65957 AU	greatest brilliancy	2827 Dec 23 04:39	2°♄08'12	-1.9m
	2822 Aug 27 17:42	0°♄		opposition	2827 Dec 24 00:30	1°♄49'05	3°00'45
morning rise	2822 Sep 26 17:16	19°♄05'17			2827 Dec 28 20:21	30°♄♄	
	2822 Oct 13 22:28	0°♄		direct	2828 Jan 28 17:45	23°♄49'17	
	2822 Nov 30 10:22	0°♄			2828 Mar 02 16:58	0°♄	
	2823 Jan 17 05:13	0°♄			2828 May 07 08:36	0°♄	
	2823 Mar 07 00:13	0°♄			2828 Jun 29 07:31	0°♄	
desc. node	2823 Mar 13 19:15	4°♄04'07			2828 Aug 17 17:34	0°♄	
	2823 Apr 28 11:39	0°♄			2828 Oct 03 13:59	0°♄	
retrograde	2823 Jul 13 04:50	25°♄13'20		evening set	2828 Oct 15 06:26	7°♄44'19	
opposition	2823 Aug 12 10:45	20°♄10'46	-6°41'30	max. Earth dist.	2828 Nov 01 16:38	19°♄28'53	2.54866 AU
greatest brilliancy	2823 Aug 13 09:42	19°♄55'10	-2.8m	desc. node	2828 Nov 02 15:35	20°♄08'01	
min. Earth dist.	2823 Aug 16 10:40	19°♄05'40	0.38323 AU		2828 Nov 16 23:54	0°♄	
direct	2823 Sep 12 15:46	14°♄41'52					
	2823 Nov 03 14:51	0°♄		conjunction	2828 Dec 02 16:29	10°♄59'30	-0°17'30
	2823 Dec 23 23:27	0°♄		minimum elong	2828 Dec 02 15:44	10°♄58'11	0°17'30
asc. node	2824 Jan 14 01:12	13°♄56'10			2828 Dec 29 03:48	0°♄	
	2824 Feb 06 21:42	0°♄		morning rise	2829 Jan 23 20:20	18°♄58'47	
	2824 Mar 22 10:36	0°♄			2829 Feb 07 11:27	0°♄	
	2824 May 06 19:53	0°♄			2829 Mar 18 12:58	0°♄	
	2824 Jun 22 06:56	0°♄			2829 Apr 26 02:10	0°♄	
evening set	2824 Aug 02 02:09	25°♄57'41			2829 Jun 04 00:31	0°♄	
	2824 Aug 08 11:01	0°♄			2829 Jul 14 09:44	0°♄	
max. Earth dist.	2824 Sep 12 04:19	22°♄02'25	2.67591 AU		2829 Aug 26 18:04	0°♄	
				asc. node	2829 Sep 04 22:41	5°♄57'32	
conjunction	2824 Sep 16 23:55	25°♄06'28	1°00'15		2829 Oct 15 18:48	0°♄	
minimum elong	2824 Sep 17 00:50	25°♄07'55	1°00'15	retrograde	2829 Dec 22 13:51	21°♄43'09	
	2824 Sep 24 16:03	0°♄		min. Earth dist.	2830 Jan 28 06:27	13°♄08'44	0.64406 AU
morning rise	2824 Oct 31 05:03	23°♄28'18		opposition	2830 Jan 31 17:54	11°♄45'22	4°31'05
	2824 Nov 10 06:37	0°♄		greatest brilliancy	2830 Jan 31 04:02	11°♄59'13	-1.4m
	2824 Dec 25 21:20	0°♄		direct	2830 Mar 11 19:09	2°♄32'41	
desc. node	2825 Jan 28 18:08	22°♄44'51			2830 Jun 04 02:45	0°♄	
	2825 Feb 08 10:14	0°♄			2830 Jul 28 04:51	0°♄	
	2825 Mar 24 00:51	0°♄			2830 Sep 14 11:54	0°♄	
	2825 May 06 03:11	0°♄		desc. node	2830 Sep 20 14:40	3°♄58'52	
	2825 Jun 19 00:23	0°♄			2830 Oct 29 04:20	0°♄	
	2825 Aug 07 23:56	0°♄		evening set	2830 Nov 29 11:07	22°♄14'27	
retrograde	2825 Sep 25 23:45	14°♄14'41			2830 Dec 10 01:35	0°♄	
min. Earth dist.	2825 Oct 22 15:07	9°♄30'31	0.41605 AU	max. Earth dist.	2830 Dec 16 03:41	4°♄30'10	2.42185 AU
opposition	2825 Oct 30 02:44	7°♄07'25	-2°00'25		2831 Jan 18 20:53	0°♄	
greatest brilliancy	2825 Oct 29 14:55	7°♄16'54	-2.7m				
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asc. node	2825 Dec 01 01:28	1°♄14'46		minimum elong	2831 Jan 25 06:35	4°♄56'10	1°01'02
	2826 Feb 19 23:20	0°♄			2831 Feb 26 09:18	0°♄	
	2826 Apr 13 06:33	0°♄		morning rise	2831 Apr 01 22:26	27°♄12'51	
	2826 Jun 01 22:11	0°♄			2831 Apr 05 11:27	0°♄	
	2826 Jul 20 16:27	0°♄			2831 May 14 00:41	0°♄	
	2826 Sep 06 12:01	0°♄			2831 Jun 22 21:49	0°♄	
evening set	2826 Sep 08 01:59	1°♄00'20		asc. node	2831 Jul 23 22:14	22°♄18'24	
max. Earth dist.	2826 Oct 05 18:03	18°♄46'43	2.63785 AU		2831 Aug 03 23:16	0°♄	
	2826 Oct 22 22:18	0°♄			2831 Sep 18 07:01	0°♄	
					2831 Nov 08 14:36	0°♄	
conjunction	2826 Oct 23 14:13	0°♄26'11	0°29'34	retrograde	2832 Jan 26 01:39	25°♄51'15	
minimum elong	2826 Oct 23 15:06	0°♄27'40	0°29'34	opposition	2832 Mar 06 05:19	16°♄11'42	4°15'24
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desc. node	2826 Dec 16 16:52	6°♄55'45		direct	2832 Apr 16 04:59	6°♄20'36	
	2827 Jan 18 13:24	0°♄			2832 Jul 01 05:13	0°♄	
	2827 Feb 28 21:39	0°♄		desc. node	2832 Aug 07 14:09	20°♄29'18	
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

























































































































	2832 Oct 08 09:26	0°♊			2837 Sep 03 13:35	0°♎	
	2832 Nov 19 13:07	0°♋	morning rise		2837 Sep 12 15:09	5°♎47'02	
	2832 Dec 29 05:32	0°♌			2837 Oct 20 22:19	0°♏	
evening set	2833 Jan 28 08:16	23°♌31'55			2837 Dec 08 02:12	0°♐	
	2833 Feb 05 12:57	0°♍			2838 Jan 26 12:21	0°♑	
	2833 Mar 15 11:38	0°♎			2838 Mar 20 13:35	0°♋	
			desc. node		2838 Mar 30 10:28	5°♋04'21	
conjunction	2833 Apr 06 14:08	17°♎18'44 -0°40'20	retrograde		2838 Jun 12 03:58	28°♋18'46	
minimum elong	2833 Apr 06 17:21	17°♎25'00 0°40'18	opposition		2838 Jul 14 03:11	22°♋32'48 -5°13'17	
	2833 Apr 23 00:07	0°♏	greatest brilliancy		2838 Jul 15 10:47	22°♋08'37 -2.6m	
max. Earth dist.	2833 May 28 16:14	26°♏52'57 2.41452 AU	min. Earth dist.		2838 Jul 21 11:33	20°♋18'51 0.42100 AU	
	2833 Jun 01 21:46	0°♐	direct		2838 Aug 17 12:19	15°♋42'07	
asc. node	2833 Jun 09 20:17	5°♐48'25			2838 Oct 05 22:45	0°♌	
morning rise	2833 Jun 13 12:10	8°♐28'00			2838 Nov 24 08:25	0°♍	
	2833 Jul 13 19:26	0°♑			2839 Jan 06 06:50	0°♎	
	2833 Aug 27 04:05	0°♒	asc. node		2839 Jan 30 17:50	17°♎26'54	
	2833 Oct 13 13:06	0°♓			2839 Feb 17 09:37	0°♏	
	2833 Dec 04 23:14	0°♏			2839 Apr 01 08:07	0°♐	
retrograde	2834 Mar 01 21:21	29°♏17'51			2839 May 15 16:45	0°♑	
opposition	2834 Apr 09 21:10	20°♏20'02 2°43'53			2839 Jun 30 12:03	0°♒	
greatest brilliancy	2834 Apr 10 07:31	20°♏09'58 -1.4m	evening set		2839 Jul 18 23:11	11°♏53'22	
min. Earth dist.	2834 Apr 14 03:17	18°♏40'50 0.64669 AU			2839 Aug 16 07:22	0°♓	
direct	2834 May 21 08:50	10°♏18'28					
desc. node	2834 Jun 25 12:24	16°♏54'50	conjunction		2839 Sep 03 20:08	11°♓47'45 1°06'18	
	2834 Jul 26 02:48	0°♐	minimum elong		2839 Sep 03 20:41	11°♓48'37 1°06'17	
	2834 Sep 15 18:33	0°♑	max. Earth dist.		2839 Sep 04 04:22	12°♓00'49 2.67596 AU	
	2834 Oct 29 11:19	0°♒			2839 Oct 02 10:38	0°♏	
	2834 Dec 08 15:58	0°♓	morning rise		2839 Oct 18 08:59	10°♏09'52	
	2835 Jan 16 04:36	0°♏			2839 Nov 18 07:08	0°♐	
	2835 Feb 23 08:00	0°♎			2840 Jan 03 13:05	0°♑	
	2835 Apr 03 03:04	0°♏	desc. node		2840 Feb 15 09:27	28°♑08'11	
evening set	2835 Apr 10 00:47	5°♏14'16			2840 Feb 18 05:13	0°♋	
asc. node	2835 Apr 27 19:45	18°♏33'57			2840 Apr 03 15:32	0°♌	
	2835 May 13 08:58	0°♐			2840 May 19 20:34	0°♍	
					2840 Jul 10 15:27	0°♎	
conjunction	2835 Jun 10 16:40	20°♐17'56 0°27'16	retrograde		2840 Aug 30 17:08	14°♎41'57	
minimum elong	2835 Jun 10 15:04	20°♐15'09 0°27'15	min. Earth dist.		2840 Sep 26 18:06	10°♎15'26 0.38034 AU	
	2835 Jun 24 13:38	0°♑	opposition		2840 Oct 01 04:13	9°♎01'19 -4°54'26	
max. Earth dist.	2835 Jul 15 04:32	14°♑08'06 2.54694 AU	greatest brilliancy		2840 Sep 30 14:21	9°♎11'01 -2.9m	
morning rise	2835 Aug 04 15:53	27°♑51'36	direct		2840 Oct 30 17:03	3°♎57'41	
	2835 Aug 07 21:27	0°♒	asc. node		2840 Dec 17 16:53	16°♎25'37	
	2835 Sep 23 06:44	0°♓			2841 Jan 13 14:57	0°♏	
	2835 Nov 10 19:30	0°♏			2841 Mar 05 13:25	0°♐	
	2836 Jan 01 17:58	0°♐			2841 Apr 22 19:53	0°♑	
	2836 Mar 06 07:37	0°♑			2841 Jun 09 20:06	0°♒	
retrograde	2836 Apr 12 17:22	7°♑04'48			2841 Jul 27 19:38	0°♓	
desc. node	2836 May 12 10:52	1°♑41'26	evening set		2841 Aug 24 19:42	17°♓37'25	
	2836 May 17 06:39	30°♒♐			2841 Sep 13 07:40	0°♏	
opposition	2836 May 19 04:07	29°♐18'42 -0°17'54	max. Earth dist.		2841 Sep 26 10:58	8°♏24'09 2.65898 AU	
greatest brilliancy	2836 May 19 06:11	29°♐16'49 -1.9m					
min. Earth dist.	2836 May 26 20:18	26°♐30'29 0.55182 AU	conjunction		2841 Oct 09 03:27	16°♏34'39 0°43'49	
direct	2836 Jun 28 03:00	19°♐55'02	minimum elong		2841 Oct 09 04:32	16°♏36'24 0°43'48	
	2836 Aug 09 11:22	0°♑			2841 Oct 29 18:12	0°♐	
	2836 Oct 02 07:25	0°♒	morning rise		2841 Nov 22 20:27	15°♐56'23	
	2836 Nov 14 03:33	0°♓			2841 Dec 13 17:43	0°♏	
	2836 Dec 23 21:48	0°♏	desc. node		2842 Jan 02 07:50	13°♑24'05	
	2837 Jan 31 22:08	0°♎			2842 Jan 26 04:02	0°♋	
	2837 Mar 12 12:33	0°♏			2842 Mar 09 04:18	0°♌	
asc. node	2837 Mar 14 19:24	1°♏42'10			2842 Apr 19 03:01	0°♍	
	2837 Apr 22 13:27	0°♐			2842 May 29 16:39	0°♎	
	2837 Jun 04 11:06	0°♑			2842 Jul 10 07:48	0°♏	
evening set	2837 Jun 05 05:35	0°♑31'34			2842 Aug 25 20:06	0°♐	
	2837 Jul 19 06:00	0°♒	retrograde		2842 Oct 28 19:18	22°♐06'46	
			asc. node		2842 Nov 04 16:44	21°♐45'40	
conjunction	2837 Jul 27 02:07	5°♒08'23 1°03'31	min. Earth dist.		2842 Nov 27 04:49	16°♐09'28 0.49559 AU	
minimum elong	2837 Jul 27 01:08	5°♒06'46 1°03'30	opposition		2842 Dec 05 06:23	13°♐11'35 1°36'53	
max. Earth dist.	2837 Aug 11 14:08	15°♒13'15 2.63810 AU	greatest brilliancy		2842 Dec 04 17:33	13°♐23'23 -2.2m	



direct	2843 Jan 08 05:35	5°♄54'56		2848 Jan 06 17:32	0°♁	
	2843 Mar 24 10:44	0°♄		2848 Feb 14 02:16	0°♁	
	2843 May 18 11:52	0°♄				
	2843 Jul 08 05:57	0°♄	conjunction	2848 Mar 07 23:43	18°♁06'01	-0°59'49
	2843 Aug 25 21:08	0°♄	minimum elong	2848 Mar 08 02:05	18°♁10'41	0°59'48
evening set	2843 Sep 30 22:32	23°♄04'56		2848 Mar 23 01:29	0°♄	
	2843 Oct 11 12:05	0°♄	max. Earth dist.	2848 Mar 28 12:16	4°♄17'20	2.37112 AU
max. Earth dist.	2843 Oct 21 20:06	6°♄50'34	2.58923 AU	2848 Apr 30 13:05	0°♄	
			morning rise	2848 May 18 02:38	13°♄23'17	
conjunction	2843 Nov 16 17:42	24°♄19'39	0°02'06	2848 Jun 09 08:58	0°♄	
minimum elong	2843 Nov 16 17:48	24°♄19'50	0°02'06	2848 Jun 26 13:40	12°♄31'36	
behind sun begin	2843 Nov 15 21:55	23°♄45'49		2848 Jul 21 05:42	0°♄	
behind sun end	2843 Nov 17 13:41	24°♄53'52		2848 Sep 03 18:29	0°♄	
desc. node	2843 Nov 20 07:31	26°♄46'51		2848 Oct 22 00:21	0°♄	
	2843 Nov 24 23:37	0°♄		2848 Dec 17 10:29	0°♄	
morning rise	2844 Jan 04 13:36	28°♄40'47		2849 Feb 15 12:19	16°♄18'02	
	2844 Jan 06 09:26	0°♄	retrograde	2849 Mar 27 02:35	7°♄01'13	3°28'20
	2844 Feb 16 00:57	0°♁	opposition	2849 Mar 27 10:47	6°♄53'09	-1.3m
	2844 Mar 26 10:42	0°♁	greatest brilliancy	2849 Mar 29 21:15	5°♄55'41	0.66691 AU
	2844 May 04 07:30	0°♄	min. Earth dist.	2849 Apr 15 22:11	30°♄	
	2844 Jun 12 13:32	0°♄	direct	2849 May 07 14:16	26°♄59'52	
	2844 Jul 23 11:07	0°♄		2849 May 30 18:28	0°♄	
	2844 Sep 06 04:53	0°♄	desc. node	2849 Jul 12 03:29	16°♄05'37	
asc. node	2844 Sep 21 14:46	9°♄16'39		2849 Aug 07 11:37	0°♄	
	2844 Nov 02 22:21	0°♄		2849 Sep 24 20:37	0°♄	
retrograde	2844 Dec 08 12:01	7°♄20'53		2849 Nov 06 17:26	0°♄	
	2845 Jan 10 19:10	30°♄		2849 Dec 16 15:10	0°♁	
min. Earth dist.	2845 Jan 12 08:10	29°♄23'48	0.61303 AU	2850 Jan 24 00:32	0°♁	
opposition	2845 Jan 17 07:29	27°♄25'24	4°12'26	2850 Feb 07 21:07	11°♁44'06	1.2m
greatest brilliancy	2845 Jan 16 12:58	27°♄43'48	-1.6m	2850 Mar 03 01:04	0°♄	
direct	2845 Feb 24 05:43	18°♄36'03		2850 Mar 13 17:45	8°♄22'58	
	2845 Apr 14 04:33	0°♄	evening set	2850 Apr 10 16:25	0°♄	
	2845 Jun 14 15:00	0°♄	asc. node	2850 May 14 12:50	25°♄26'18	
	2845 Aug 05 05:27	0°♄				
	2845 Sep 21 19:22	0°♄	conjunction	2850 May 18 18:34	28°♄33'26	0°02'49
desc. node	2845 Oct 07 06:26	10°♄12'15	minimum elong	2850 May 18 18:23	28°♄33'04	0°02'49
	2845 Nov 05 07:58	0°♄	behind sun begin	2850 May 17 16:13	27°♄45'04	
evening set	2845 Nov 10 11:31	3°♄35'24	behind sun end	2850 May 19 20:32	29°♄21'01	
max. Earth dist.	2845 Nov 24 16:55	13°♄38'40	2.47383 AU	2850 May 20 17:49	0°♄	
	2845 Dec 17 07:09	0°♄	max. Earth dist.	2850 Jun 30 19:28	29°♄20'26	2.49809 AU
			morning rise	2850 Jul 01 18:11	0°♄	
conjunction	2846 Jan 02 03:45	11°♄45'08	-0°47'22	2850 Jul 17 09:24	10°♄46'43	
minimum elong	2846 Jan 02 01:50	11°♄41'33	0°47'21	2850 Aug 15 00:02	0°♄	
	2846 Jan 26 06:26	0°♁		2850 Sep 30 14:11	0°♄	
morning rise	2846 Mar 03 10:11	28°♁01'01		2850 Nov 19 01:25	0°♄	
	2846 Mar 05 23:00	0°♁		2851 Jan 13 12:39	0°♄	
greatest brilliancy	2846 Mar 30 04:17	19°♁00'46	1.2m	2851 Mar 26 17:07	21°♄38'46	
	2846 Apr 13 04:15	0°♄	retrograde	2851 May 03 08:50	13°♄19'41	1°05'39
	2846 May 21 19:18	0°♄	opposition	2851 May 03 15:44	13°♄13'09	-1.7m
	2846 Jun 30 18:25	0°♄	greatest brilliancy	2851 May 09 20:08	10°♄53'13	0.59579 AU
asc. node	2846 Aug 09 13:23	28°♄16'19	min. Earth dist.	2851 May 30 02:15	4°♄51'46	
	2846 Aug 12 01:56	0°♄	desc. node	2851 Jun 13 06:00	3°♄32'05	
	2846 Sep 27 08:13	0°♄	direct	2851 Aug 28 08:42	0°♄	
	2846 Nov 22 07:25	0°♄		2851 Oct 14 09:29	0°♄	
retrograde	2847 Jan 12 18:54	13°♄07'55		2851 Nov 24 16:21	0°♁	
min. Earth dist.	2847 Feb 20 23:44	3°♄44'37	0.67293 AU	2852 Jan 02 17:52	0°♁	
opposition	2847 Feb 22 02:12	3°♄18'11	4°30'56	2852 Feb 10 06:49	0°♄	
greatest brilliancy	2847 Feb 21 21:30	3°♄22'53	-1.3m	2852 Mar 20 11:08	0°♄	
	2847 Mar 02 13:44	30°♄	asc. node	2852 Mar 31 10:57	8°♄14'22	
direct	2847 Apr 03 11:36	23°♄38'54		2852 Apr 30 02:32	0°♄	
	2847 May 08 19:15	0°♄	evening set	2852 May 16 00:54	11°♄23'59	
	2847 Jul 13 04:37	0°♄		2852 Jun 11 15:51	0°♄	
desc. node	2847 Aug 25 04:51	25°♄18'21				
	2847 Sep 01 16:34	0°♄	conjunction	2852 Jul 10 02:37	19°♄18'30	0°53'56
	2847 Oct 17 00:41	0°♄	minimum elong	2852 Jul 10 01:02	19°♄15'52	0°53'56
	2847 Nov 28 00:41	0°♄		2852 Jul 26 04:47	0°♄	
evening set	2848 Jan 03 04:16	27°♄15'46	max. Earth dist.	2852 Aug 01 10:26	4°♄06'16	2.60870 AU

morning rise	2852 Aug 28 21:43	21°♏57'14		asc. node	2857 Nov 21 07:52	19°♌00'37	
	2852 Sep 10 10:59	0°♍		direct	2857 Dec 15 11:01	15°♌10'03	
	2852 Oct 28 02:43	0°♎			2858 Feb 08 05:11	0°♍	
	2852 Dec 16 05:56	0°♎			2858 Apr 06 08:45	0°♎	
	2853 Feb 06 08:46	0°♏			2858 May 27 09:49	0°♏	
	2853 Apr 12 18:52	0°♐			2858 Jul 15 18:22	0°♐	
desc. node	2853 Apr 16 01:02	1°♐00'25			2858 Sep 01 20:19	0°♑	
retrograde	2853 May 16 14:40	5°♐58'25		evening set	2858 Sep 16 07:11	9°♑12'16	
	2853 Jun 17 10:48	30°♑♏		max. Earth dist.	2858 Oct 11 11:01	25°♑29'01	2.62280 AU
opposition	2853 Jun 19 11:00	29°♏19'58	-3°09'20		2858 Oct 18 08:18	0°♎	
greatest brilliancy	2853 Jun 20 09:41	29°♏00'55	-2.3m				
min. Earth dist.	2853 Jun 27 21:45	26°♏30'08	0.47192 AU	conjunction	2858 Nov 01 02:25	9°♎06'33	0°20'07
direct	2853 Jul 26 16:36	21°♏10'50		minimum elong	2858 Nov 01 03:05	9°♎07'40	0°20'06
	2853 Sep 02 17:29	0°♐			2858 Dec 01 23:31	0°♏	
	2853 Oct 25 20:09	0°♑		desc. node	2858 Dec 06 22:31	3°♏24'52	
	2853 Dec 07 10:22	0°♒		morning rise	2858 Dec 17 16:21	10°♏52'11	
	2854 Jan 16 23:26	0°♑			2859 Jan 13 17:32	0°♐	
asc. node	2854 Feb 16 10:19	22°♑30'15			2859 Feb 23 19:44	0°♑	
	2854 Feb 26 16:27	0°♌			2859 Apr 04 16:42	0°♒	
	2854 Apr 09 15:04	0°♍			2859 May 14 00:30	0°♑	
	2854 May 23 06:17	0°♎			2859 Jun 22 19:02	0°♌	
evening set	2854 Jul 03 00:25	27°♎01'47			2859 Aug 03 15:25	0°♍	
	2854 Jul 07 13:39	0°♏			2859 Sep 20 11:46	0°♎	
				asc. node	2859 Oct 09 07:28	9°♎31'57	
conjunction	2854 Aug 20 08:05	28°♏13'34	1°08'35	retrograde	2859 Nov 24 11:50	21°♎36'52	
minimum elong	2854 Aug 20 08:07	28°♏13'37	1°08'35	min. Earth dist.	2859 Dec 27 06:37	14°♎22'54	0.57255 AU
	2854 Aug 23 02:41	0°♐		opposition	2860 Jan 02 16:26	11°♎52'47	3°34'32
max. Earth dist.	2854 Aug 26 05:08	1°♐58'52	2.66771 AU	greatest brilliancy	2860 Jan 01 19:43	12°♎13'03	-1.8m
morning rise	2854 Oct 04 15:10	27°♐03'36		direct	2860 Feb 08 06:18	3°♎33'08	
	2854 Oct 09 06:17	0°♑			2860 Apr 29 16:49	0°♏	
	2854 Nov 25 11:35	0°♎			2860 Jun 23 17:00	0°♐	
	2855 Jan 11 14:34	0°♏			2860 Aug 12 19:16	0°♑	
	2855 Feb 27 23:25	0°♐			2860 Sep 28 21:43	0°♎	
desc. node	2855 Mar 04 01:08	2°♐33'21		desc. node	2860 Oct 23 21:28	16°♎39'03	
	2855 Apr 17 17:49	0°♑		evening set	2860 Oct 24 10:10	17°♎00'32	
	2855 Jun 12 07:23	0°♒		max. Earth dist.	2860 Nov 09 04:51	27°♎48'28	2.52337 AU
retrograde	2855 Jul 31 15:41	12°♒54'41			2860 Nov 12 08:48	0°♏	
opposition	2855 Aug 30 17:10	7°♒57'22	-6°42'47				
greatest brilliancy	2855 Aug 31 01:56	7°♒51'33	-2.9m	conjunction	2860 Dec 13 01:44	21°♏43'34	-0°28'53
min. Earth dist.	2855 Aug 31 17:30	7°♒41'13	0.37311 AU	minimum elong	2860 Dec 13 00:29	21°♏41'18	0°28'52
direct	2855 Sep 29 17:55	2°♒56'21			2860 Dec 24 11:22	0°♐	
	2855 Dec 13 00:52	0°♑			2861 Feb 02 16:09	0°♑	
asc. node	2856 Jan 04 09:19	13°♑28'10		morning rise	2861 Feb 05 16:23	2°♑17'30	
	2856 Jan 30 08:44	0°♌			2861 Mar 13 14:26	0°♒	
	2856 Mar 16 07:46	0°♍			2861 Apr 21 00:35	0°♑	
	2856 May 01 11:31	0°♎			2861 May 29 19:34	0°♌	
	2856 Jun 17 09:13	0°♏			2861 Jul 08 23:30	0°♍	
	2856 Aug 03 18:59	0°♐			2861 Aug 20 19:02	0°♎	
evening set	2856 Aug 10 10:38	4°♐12'14		asc. node	2861 Aug 26 07:08	3°♎39'58	
max. Earth dist.	2856 Sep 17 09:23	28°♐16'43	2.67231 AU		2861 Oct 07 19:56	0°♏	
	2856 Sep 20 02:09	0°♑		retrograde	2861 Dec 30 09:55	29°♏59'01	
				min. Earth dist.	2862 Feb 06 00:58	21°♏06'02	0.65699 AU
conjunction	2856 Sep 25 00:12	3°♑08'31	0°55'08	opposition	2862 Feb 08 16:01	20°♏02'59	4°34'57
minimum elong	2856 Sep 25 01:14	3°♑10'10	0°55'07	greatest brilliancy	2862 Feb 08 05:19	20°♏13'41	-1.4m
	2856 Nov 05 15:09	0°♎		direct	2862 Mar 20 05:50	10°♏39'37	
morning rise	2856 Nov 08 06:07	1°♎42'44			2862 May 26 22:02	0°♐	
	2856 Dec 21 00:07	0°♏			2862 Jul 22 12:41	0°♑	
desc. node	2857 Jan 19 00:03	19°♏37'48			2862 Sep 09 12:10	0°♎	
	2857 Feb 03 02:34	0°♐		desc. node	2862 Sep 10 20:22	0°♎51'47	
	2857 Mar 18 01:00	0°♑			2862 Oct 24 10:09	0°♏	
	2857 Apr 29 03:52	0°♒			2862 Dec 05 08:46	0°♐	
	2857 Jun 10 08:21	0°♑		evening set	2862 Dec 11 04:38	4°♐18'34	
	2857 Jul 25 05:26	0°♌		max. Earth dist.	2863 Jan 03 09:47	21°♐46'42	2.39504 AU
retrograde	2857 Oct 08 19:35	29°♌27'58			2863 Jan 14 03:19	0°♑	
min. Earth dist.	2857 Nov 05 05:47	24°♌20'37	0.44283 AU				
opposition	2857 Nov 13 09:09	21°♌34'32	-0°28'33	conjunction	2863 Feb 08 20:06	19°♑58'33	-1°04'36
greatest brilliancy	2857 Nov 13 05:53	21°♌37'19	-2.5m	minimum elong	2863 Feb 08 19:36	19°♑57'35	1°04'35

	2863 Feb 21 14:15	0°♄		desc. node	2868 May 02 17:13	16°♄38'28	
	2863 Mar 31 14:59	0°♅		opposition	2868 May 29 15:40	9°♄42'09	-1°14'46
morning rise	2863 Apr 19 06:54	14°♅37'57		greatest brilliancy	2868 May 30 00:34	9°♄34'13	-2.0m
	2863 May 09 02:54	0°♆		min. Earth dist.	2868 Jun 06 19:50	6°♄47'10	0.52437 AU
	2863 Jun 17 22:31	0°♇		direct	2868 Jul 07 20:23	0°♄38'38	
asc. node	2863 Jul 14 05:30	19°♇01'24			2868 Sep 23 21:54	0°♅	
	2863 Jul 29 20:45	0°♆			2868 Nov 07 12:41	0°♄	
	2863 Sep 12 18:24	0°♇			2868 Dec 17 22:47	0°♄	
	2863 Nov 01 12:41	0°♅			2869 Jan 26 08:28	0°♅	
	2864 Jan 08 09:56	0°♅		asc. node	2869 Mar 05 01:55	28°♅23'34	
retrograde	2864 Feb 02 18:44	3°♅35'07			2869 Mar 07 05:54	0°♆	
	2864 Feb 26 08:35	30°♅			2869 Apr 17 12:37	0°♇	
opposition	2864 Mar 13 18:55	24°♅02'55	4°01'12		2869 May 30 15:09	0°♆	
greatest brilliancy	2864 Mar 13 22:55	23°♅58'57	-1.3m	evening set	2869 Jun 15 19:21	10°♅56'03	
min. Earth dist.	2864 Mar 15 01:20	23°♅32'46	0.67715 AU		2869 Jul 14 13:17	0°♇	
direct	2864 Apr 24 00:23	14°♅07'01					
	2864 Jun 22 09:24	0°♅		conjunction	2869 Aug 05 04:26	14°♇05'32	1°06'42
desc. node	2864 Jul 28 18:46	18°♅32'53		minimum elong	2869 Aug 05 03:50	14°♇04'34	1°06'43
	2864 Aug 17 11:31	0°♆		max. Earth dist.	2869 Aug 17 02:55	21°♇47'36	2.65107 AU
	2864 Oct 03 04:58	0°♄			2869 Aug 29 21:55	0°♅	
	2864 Nov 14 14:39	0°♅		morning rise	2869 Sep 20 18:03	13°♅54'59	
	2864 Dec 24 09:08	0°♄			2869 Oct 16 03:51	0°♅	
	2865 Jan 31 17:10	0°♄			2869 Dec 02 21:53	0°♆	
evening set	2865 Feb 13 02:18	9°♄47'23			2870 Jan 20 07:45	0°♄	
	2865 Mar 10 16:08	0°♅			2870 Mar 11 13:54	0°♅	
	2865 Apr 18 04:49	0°♆		desc. node	2870 Mar 20 16:14	5°♅11'05	
					2870 May 08 04:25	0°♄	
conjunction	2865 Apr 22 14:01	3°♆21'24	-0°25'12	retrograde	2870 Jun 29 01:58	13°♄16'50	
minimum elong	2865 Apr 22 16:13	3°♆25'37	0°25'10	opposition	2870 Jul 30 00:21	7°♄58'03	-6°12'17
	2865 May 28 02:39	0°♇		greatest brilliancy	2870 Jul 31 06:15	7°♄36'43	-2.7m
asc. node	2865 May 31 04:56	2°♇16'12		min. Earth dist.	2870 Aug 04 21:16	6°♄18'01	0.39764 AU
max. Earth dist.	2865 Jun 12 06:50	11°♇02'58	2.44438 AU	direct	2870 Aug 31 14:01	1°♄55'00	
morning rise	2865 Jun 26 15:30	21°♇19'01			2870 Nov 13 19:02	0°♄	
	2865 Jul 08 24:00	0°♆			2870 Dec 29 14:49	0°♅	
	2865 Aug 22 05:52	0°♇		asc. node	2871 Jan 21 01:16	15°♅28'01	
	2865 Oct 08 05:18	0°♅			2871 Feb 11 00:22	0°♆	
	2865 Nov 28 04:53	0°♅			2871 Mar 26 16:47	0°♇	
	2866 Jan 30 23:11	0°♆			2871 May 10 13:11	0°♆	
retrograde	2866 Mar 10 13:02	7°♆29'14			2871 Jun 25 15:57	0°♇	
	2866 Apr 14 19:31	30°♆		evening set	2871 Jul 27 17:13	20°♇30'04	
opposition	2866 Apr 18 03:10	28°♆43'57	2°11'56		2871 Aug 11 15:33	0°♅	
greatest brilliancy	2866 Apr 18 13:25	28°♆34'04	-1.5m	max. Earth dist.	2871 Sep 09 09:13	18°♅15'35	2.67707 AU
min. Earth dist.	2866 Apr 23 05:07	26°♆46'31	0.63102 AU				
direct	2866 May 29 12:02	18°♆45'00		conjunction	2871 Sep 11 23:36	19°♅54'46	1°03'11
desc. node	2866 Jun 15 17:31	20°♆31'17		minimum elong	2871 Sep 12 00:23	19°♅56'02	1°03'11
	2866 Jul 15 10:17	0°♆			2871 Sep 27 19:48	0°♅	
	2866 Sep 09 06:50	0°♄		morning rise	2871 Oct 26 06:38	18°♅12'48	
	2866 Oct 23 20:44	0°♅			2871 Nov 13 13:07	0°♆	
	2866 Dec 03 09:10	0°♄			2871 Dec 29 10:41	0°♄	
	2867 Jan 11 01:40	0°♄		desc. node	2872 Feb 05 14:58	25°♄24'30	
	2867 Feb 18 07:54	0°♅			2872 Feb 12 11:06	0°♅	
	2867 Mar 29 05:25	0°♆			2872 Mar 27 18:51	0°♄	
asc. node	2867 Apr 18 04:10	14°♆59'48			2872 May 10 23:30	0°♄	
evening set	2867 Apr 24 05:04	19°♆28'27			2872 Jun 25 23:24	0°♅	
	2867 May 08 13:35	0°♇			2872 Aug 27 23:18	0°♆	
	2867 Jun 19 20:10	0°♆		retrograde	2872 Sep 15 03:10	2°♆15'02	
					2872 Oct 03 03:14	30°♆	
conjunction	2867 Jun 22 08:00	1°♆43'29	0°38'41	min. Earth dist.	2872 Oct 11 14:31	27°♅43'46	0.39734 AU
minimum elong	2867 Jun 22 06:12	1°♆40'22	0°38'40	greatest brilliancy	2872 Oct 17 09:24	25°♅59'31	-2.8m
max. Earth dist.	2867 Jul 22 05:09	22°♆02'09	2.57097 AU	opposition	2872 Oct 18 00:46	25°♅47'54	-3°16'39
	2867 Aug 03 04:24	0°♇		direct	2872 Nov 17 08:49	20°♅19'42	
morning rise	2867 Aug 14 04:29	7°♇14'27		asc. node	2872 Dec 08 01:35	22°♅59'58	
	2867 Sep 18 11:10	0°♅			2872 Dec 29 04:13	0°♆	
	2867 Nov 05 14:02	0°♅			2873 Feb 25 14:19	0°♇	
	2867 Dec 26 05:08	0°♆			2873 Apr 16 18:38	0°♆	
	2868 Feb 21 16:02	0°♄			2873 Jun 04 14:41	0°♇	
retrograde	2868 Apr 24 00:50	17°♄06'29			2873 Jul 23 00:07	0°♅	

evening set	2873 Sep 02 00:03	25°  44'59			2878 Mar 01 03:00	0° 	
	2873 Sep 08 16:42	0° 		morning rise	2878 Mar 19 16:14	14°  35'06	
max. Earth dist.	2873 Oct 01 21:38	14°  51'57	2.64838 AU		2878 Apr 08 06:34	0° 	
					2878 May 16 20:02	0° 	
conjunction	2873 Oct 17 08:35	24°  53'48	0°35'51		2878 Jun 25 16:42	0° 	
minimum elong	2873 Oct 17 09:35	24°  55'26	0°35'50	asc. node	2878 Jul 30 22:36	25°  15'34	
	2873 Oct 25 03:44	0° 			2878 Aug 06 18:48	0° 	
morning rise	2873 Dec 01 12:59	24°  55'14			2878 Sep 21 08:10	0° 	
	2873 Dec 09 00:23	0° 			2878 Nov 12 22:52	0° 	
desc. node	2873 Dec 23 13:35	9°  58'57		retrograde	2879 Jan 20 09:47	20°  55'04	
	2874 Jan 21 04:34	0° 		opposition	2879 Mar 01 15:36	11°  10'38	4°23'12
	2874 Mar 03 20:13	0° 		min. Earth dist.	2879 Mar 01 09:40	11°  16'34	0.67725 AU
	2874 Apr 13 08:08	0° 		greatest brilliancy	2879 Mar 01 14:13	11°  12'01	-1.3m
	2874 May 23 08:27	0° 		direct	2879 Apr 11 09:20	1°  24'12	
	2874 Jul 03 01:23	0° 			2879 Jul 06 07:48	0° 	
	2874 Aug 15 23:18	0° 		desc. node	2879 Aug 15 10:38	22°  43'56	
	2874 Oct 14 21:50	0° 			2879 Aug 27 07:03	0° 	
asc. node	2874 Oct 26 00:01	2°  39'47			2879 Oct 12 01:43	0° 	
retrograde	2874 Nov 08 00:53	3°  50'42			2879 Nov 23 05:01	0° 	
	2874 Dec 01 04:34	30°  5'00			2880 Jan 01 22:27	0° 	
min. Earth dist.	2874 Dec 08 15:18	27°  25'07	0.52457 AU	evening set	2880 Jan 17 14:15	12°  09'58	
greatest brilliancy	2874 Dec 15 12:08	24°  49'29	-2.0m		2880 Feb 09 06:40	0° 	
opposition	2874 Dec 16 06:06	24°  32'29	2°29'51		2880 Mar 18 05:24	0° 	
direct	2875 Jan 20 06:00	16°  50'37					
	2875 Mar 13 10:17	0° 		conjunction	2880 Mar 24 17:24	5°  06'56	-0°50'16
	2875 May 12 01:20	0° 		minimum elong	2880 Mar 24 20:43	5°  13'27	0°50'13
	2875 Jul 02 23:32	0° 			2880 Apr 25 16:50	0° 	
	2875 Aug 21 01:46	0° 		max. Earth dist.	2880 May 11 16:25	12°  11'40	2.39171 AU
	2875 Oct 06 20:44	0° 		morning rise	2880 Jun 02 12:34	28°  31'33	
evening set	2875 Oct 09 14:24	1°  48'01			2880 Jun 04 12:32	0° 	
max. Earth dist.	2875 Oct 28 11:13	14°  22'31	2.56775 AU	asc. node	2880 Jun 16 20:40	9°  10'07	
desc. node	2875 Nov 10 12:37	23°  14'12			2880 Jul 16 08:22	0° 	
	2875 Nov 20 08:35	0° 			2880 Aug 29 16:45	0° 	
					2880 Oct 16 07:35	0° 	
conjunction	2875 Nov 26 04:40	4°  03'09	-0°09'09		2880 Dec 08 22:23	0° 	
minimum elong	2875 Nov 26 04:17	4°  02'29	0°09'09	retrograde	2881 Feb 23 15:01	24°  09'03	
behind sun begin	2875 Nov 25 11:03	3°  32'30		opposition	2881 Apr 03 22:14	15°  02'22	3°03'44
behind sun end	2875 Nov 26 21:32	4°  32'31		greatest brilliancy	2881 Apr 04 07:54	14°  52'55	-1.4m
	2876 Jan 01 16:13	0° 		min. Earth dist.	2881 Apr 07 13:00	13°  37'37	0.65703 AU
morning rise	2876 Jan 15 16:40	10°  31'50		direct	2881 May 15 10:59	5°  00'03	
	2876 Feb 11 04:10	0° 		desc. node	2881 Jul 02 09:23	16°  21'18	
	2876 Mar 21 09:36	0° 			2881 Jul 31 00:20	0° 	
	2876 Apr 29 01:59	0° 			2881 Sep 19 03:26	0° 	
	2876 Jun 07 02:45	0° 			2881 Nov 01 12:18	0° 	
	2876 Jul 17 15:07	0° 			2881 Dec 11 14:36	0° 	
	2876 Aug 30 08:55	0° 			2882 Jan 19 01:50	0° 	
asc. node	2876 Sep 11 22:35	7°  57'54			2882 Feb 26 03:33	0° 	
	2876 Oct 21 07:42	0° 		evening set	2882 Mar 29 10:37	24°  00'06	
retrograde	2876 Dec 16 16:22	16°  09'56			2882 Apr 05 20:03	0° 	
min. Earth dist.	2877 Jan 21 13:46	7°  51'15	0.63137 AU	asc. node	2882 May 04 19:35	21°  48'35	
opposition	2877 Jan 25 16:59	6°  12'18	4°25'34		2882 May 15 22:34	0° 	
greatest brilliancy	2877 Jan 25 00:51	6°  28'24	-1.5m				
	2877 Feb 12 08:31	30°  5'00		conjunction	2882 Jun 01 04:01	11°  45'11	0°17'30
direct	2877 Mar 05 06:32	27°  50'13		minimum elong	2882 Jun 01 02:51	11°  43'05	0°17'29
	2877 Mar 27 22:05	0° 			2882 Jun 26 23:57	0° 	
	2877 Jun 07 22:59	0° 		max. Earth dist.	2882 Jul 09 09:11	8°  33'13	2.52592 AU
	2877 Jul 30 22:19	0° 		morning rise	2882 Jul 28 01:45	21°  51'59	
	2877 Sep 16 22:56	0° 			2882 Aug 10 05:18	0° 	
desc. node	2877 Sep 27 11:22	6°  52'56			2882 Sep 25 15:11	0° 	
	2877 Oct 31 15:00	0° 			2882 Nov 13 11:06	0° 	
evening set	2877 Nov 21 00:07	14°  21'06			2883 Jan 05 12:47	0° 	
max. Earth dist.	2877 Dec 05 19:20	25°  01'53	2.44502 AU		2883 Mar 25 14:15	0° 	
	2877 Dec 12 14:20	0° 		retrograde	2883 Apr 05 16:42	0°  43'02	
					2883 Apr 16 10:19	30°  5'00	
conjunction	2878 Jan 14 20:35	24°  35'43	-0°56'06	opposition	2883 May 12 17:10	22°  41'22	0°19'33
minimum elong	2878 Jan 14 18:41	24°  35'06	0°56'06	greatest brilliancy	2883 May 12 19:36	22°  39'07	-1.8m
	2878 Jan 21 12:20	0°		min. Earth dist.	2883 May 19 21:14	20°  01'36	0.57254 AU

desc. node	2883 May 20 07:52	19° $\mathbb{M}$ 51'55		max. Earth dist.	2888 Sep 22 16:03	4° $\mathbb{A}$ 35'45	2.66597 AU
direct	2883 Jun 22 03:42	13° $\mathbb{M}$ 05'01					
	2883 Aug 18 15:49	0° $\mathbb{A}$		conjunction	2888 Oct 03 02:02	11° $\mathbb{A}$ 16'35	0°48'54
	2883 Oct 07 17:50	0° $\mathbb{B}$		minimum elong	2888 Oct 03 03:08	11° $\mathbb{A}$ 18'20	0°48'52
	2883 Nov 18 20:30	0° $\mathbb{A}$			2888 Oct 31 23:20	0° $\mathbb{M}$	
	2883 Dec 28 06:43	0° $\mathbb{H}$		morning rise	2888 Nov 16 12:33	10° $\mathbb{M}$ 13'07	
	2884 Feb 05 01:13	0° $\mathbb{Y}$			2888 Dec 16 03:41	0° $\mathbb{A}$	
	2884 Mar 15 09:58	0° $\mathbb{B}$		desc. node	2889 Jan 09 04:43	16° $\mathbb{A}$ 22'12	
asc. node	2884 Mar 21 19:28	4° $\mathbb{B}$ 47'12			2889 Jan 28 21:26	0° $\mathbb{B}$	
	2884 Apr 25 05:02	0° $\mathbb{H}$			2889 Mar 12 07:33	0° $\mathbb{A}$	
evening set	2884 May 27 19:04	23° $\mathbb{H}$ 01'34			2889 Apr 22 17:37	0° $\mathbb{H}$	
	2884 Jun 06 21:30	0° $\mathbb{B}$			2889 Jun 02 21:30	0° $\mathbb{Y}$	
					2889 Jul 15 12:13	0° $\mathbb{B}$	
conjunction	2884 Jul 19 23:41	28° $\mathbb{B}$ 59'40	1°00'07		2889 Sep 03 14:19	0° $\mathbb{H}$	
minimum elong	2884 Jul 19 22:25	28° $\mathbb{B}$ 57'34	1°00'08	retrograde	2889 Oct 20 12:10	13° $\mathbb{H}$ 12'07	
	2884 Jul 21 12:17	0° $\mathbb{Q}$		asc. node	2889 Nov 11 16:44	9° $\mathbb{H}$ 40'28	
max. Earth dist.	2884 Aug 07 11:32	11° $\mathbb{Q}$ 06'52	2.62598 AU	min. Earth dist.	2889 Nov 17 22:32	7° $\mathbb{H}$ 38'18	0.47173 AU
	2884 Sep 05 18:15	0° $\mathbb{M}$		opposition	2889 Nov 26 05:10	4° $\mathbb{H}$ 41'22	0°48'52
morning rise	2884 Sep 06 10:43	0° $\mathbb{M}$ 26'20		greatest brilliancy	2889 Nov 25 22:20	4° $\mathbb{H}$ 47'28	-2.4m
	2884 Oct 23 05:05	0° $\mathbb{A}$			2889 Dec 11 06:45	30° $\mathbb{R}$ $\mathbb{B}$	
	2884 Dec 10 17:33	0° $\mathbb{M}$		direct	2889 Dec 29 08:30	27° $\mathbb{B}$ 47'05	
	2885 Jan 30 02:44	0° $\mathbb{A}$			2890 Jan 17 12:54	0° $\mathbb{H}$	
	2885 Mar 27 09:14	0° $\mathbb{B}$			2890 Mar 29 14:18	0° $\mathbb{B}$	
desc. node	2885 Apr 06 07:09	4° $\mathbb{B}$ 29'16			2890 May 21 14:56	0° $\mathbb{Q}$	
retrograde	2885 May 30 23:57	18° $\mathbb{B}$ 32'36			2890 Jul 10 17:32	0° $\mathbb{M}$	
opposition	2885 Jul 02 19:46	12° $\mathbb{B}$ 22'46	-4°20'10		2890 Aug 28 03:17	0° $\mathbb{A}$	
greatest brilliancy	2885 Jul 04 00:54	11° $\mathbb{B}$ 59'24	-2.5m	evening set	2890 Sep 24 14:34	17° $\mathbb{A}$ 31'56	
min. Earth dist.	2885 Jul 10 21:21	9° $\mathbb{B}$ 48'30	0.44298 AU		2890 Oct 13 17:42	0° $\mathbb{M}$	
direct	2885 Aug 07 13:06	4° $\mathbb{B}$ 54'36		max. Earth dist.	2890 Oct 17 08:46	2° $\mathbb{M}$ 23'24	2.60515 AU
	2885 Oct 15 13:29	0° $\mathbb{A}$					
	2885 Nov 29 21:41	0° $\mathbb{H}$		conjunction	2890 Nov 09 21:21	18° $\mathbb{M}$ 06'09	0°09'55
	2886 Jan 10 13:02	0° $\mathbb{Y}$		minimum elong	2890 Nov 09 21:43	18° $\mathbb{M}$ 06'45	0°09'54
asc. node	2886 Feb 06 18:15	19° $\mathbb{Y}$ 47'12		behind sun begin	2890 Nov 09 05:55	17° $\mathbb{M}$ 40'05	
	2886 Feb 20 22:04	0° $\mathbb{B}$		behind sun end	2890 Nov 10 13:30	18° $\mathbb{M}$ 33'27	
	2886 Apr 04 07:42	0° $\mathbb{H}$		desc. node	2890 Nov 27 04:20	29° $\mathbb{M}$ 53'50	
	2886 May 18 06:57	0° $\mathbb{B}$			2890 Nov 27 07:55	0° $\mathbb{A}$	
	2886 Jul 02 19:33	0° $\mathbb{Q}$		morning rise	2890 Dec 27 14:30	21° $\mathbb{A}$ 11'07	
evening set	2886 Jul 12 06:25	6° $\mathbb{Q}$ 07'23			2891 Jan 08 22:08	0° $\mathbb{B}$	
	2886 Aug 18 11:20	0° $\mathbb{M}$			2891 Feb 18 19:01	0° $\mathbb{A}$	
					2891 Mar 30 09:51	0° $\mathbb{H}$	
conjunction	2886 Aug 28 17:04	6° $\mathbb{M}$ 31'46	1°07'43		2891 May 08 11:08	0° $\mathbb{Y}$	
minimum elong	2886 Aug 28 17:26	6° $\mathbb{M}$ 32'20	1°07'43		2891 Jun 16 21:31	0° $\mathbb{B}$	
max. Earth dist.	2886 Aug 31 12:06	8° $\mathbb{M}$ 18'29	2.67326 AU		2891 Jul 28 01:45	0° $\mathbb{H}$	
	2886 Oct 04 14:24	0° $\mathbb{A}$			2891 Sep 11 16:43	0° $\mathbb{B}$	
morning rise	2886 Oct 12 12:31	5° $\mathbb{A}$ 02'32		asc. node	2891 Sep 29 15:11	10° $\mathbb{B}$ 15'46	
	2886 Nov 20 14:35	0° $\mathbb{M}$			2891 Nov 19 11:55	0° $\mathbb{Q}$	
	2887 Jan 06 05:30	0° $\mathbb{A}$		retrograde	2891 Dec 03 05:35	1° $\mathbb{Q}$ 14'29	
	2887 Feb 21 13:42	0° $\mathbb{B}$			2891 Dec 16 10:54	30° $\mathbb{R}$ $\mathbb{B}$	
desc. node	2887 Feb 22 06:21	0° $\mathbb{B}$ 26'56		min. Earth dist.	2892 Jan 06 04:16	23° $\mathbb{B}$ 35'36	0.59607 AU
	2887 Apr 09 04:40	0° $\mathbb{A}$		opposition	2892 Jan 11 18:50	21° $\mathbb{B}$ 22'47	3°59'25
	2887 May 27 22:56	0° $\mathbb{H}$		greatest brilliancy	2892 Jan 10 22:53	21° $\mathbb{B}$ 42'31	-1.7m
	2887 Aug 04 21:32	0° $\mathbb{Y}$		direct	2892 Feb 18 03:09	12° $\mathbb{B}$ 45'45	
retrograde	2887 Aug 18 13:43	1° $\mathbb{Y}$ 13'17			2892 Apr 20 15:43	0° $\mathbb{Q}$	
	2887 Sep 01 08:06	30° $\mathbb{R}$ $\mathbb{H}$			2892 Jun 17 19:32	0° $\mathbb{M}$	
min. Earth dist.	2887 Sep 15 23:34	26° $\mathbb{H}$ 35'28	0.37292 AU		2892 Aug 07 18:21	0° $\mathbb{A}$	
opposition	2887 Sep 18 03:31	26° $\mathbb{H}$ 00'38	-5°56'38		2892 Sep 24 04:19	0° $\mathbb{M}$	
greatest brilliancy	2887 Sep 17 21:26	26° $\mathbb{H}$ 04'42	-2.9m	desc. node	2892 Oct 14 03:35	13° $\mathbb{M}$ 13'21	
direct	2887 Oct 17 12:49	21° $\mathbb{H}$ 06'37		evening set	2892 Nov 02 22:03	26° $\mathbb{M}$ 40'07	
	2887 Nov 25 17:46	0° $\mathbb{Y}$			2892 Nov 07 17:40	0° $\mathbb{A}$	
asc. node	2887 Dec 25 16:54	14° $\mathbb{Y}$ 31'42		max. Earth dist.	2892 Nov 17 12:05	6° $\mathbb{A}$ 49'17	2.49657 AU
	2888 Jan 21 12:35	0° $\mathbb{B}$			2892 Dec 19 19:24	0° $\mathbb{B}$	
	2888 Mar 09 17:07	0° $\mathbb{H}$					
	2888 Apr 25 21:33	0° $\mathbb{B}$		conjunction	2892 Dec 24 02:36	3° $\mathbb{B}$ 09'16	-0°39'48
	2888 Jun 12 08:25	0° $\mathbb{Q}$		minimum elong	2892 Dec 24 00:54	3° $\mathbb{B}$ 06'09	0°39'47
	2888 Jul 30 01:22	0° $\mathbb{M}$			2893 Jan 28 21:57	0° $\mathbb{A}$	
evening set	2888 Aug 18 17:04	12° $\mathbb{M}$ 23'21		morning rise	2893 Feb 19 16:15	16° $\mathbb{A}$ 44'19	
	2888 Sep 15 11:20	0° $\mathbb{A}$			2893 Mar 08 17:16	0° $\mathbb{H}$	

	2893 Apr 16 00:24	0°♄		greatest brilliancy	2898 Apr 27 01:07	7°♌14'35	-1.6m
	2893 May 24 16:27	0°♄		min. Earth dist.	2898 May 02 13:16	5°♌08'38	0.61276 AU
	2893 Jul 03 16:07	0°♌			2898 May 18 05:50	30°♌♌	
	2893 Aug 15 02:15	0°♌		desc. node	2898 Jun 05 23:20	27°♌29'10	
asc. node	2893 Aug 16 13:39	1°♌00'04		direct	2898 Jun 06 19:57	27°♌28'53	
	2893 Sep 30 20:23	0°♌			2898 Jun 27 08:56	0°♌	
retrograde	2893 Nov 29 10:10	0°♌			2898 Sep 02 03:52	0°♌	
	2894 Jan 07 03:13	8°♌03'00			2898 Oct 18 00:39	0°♌	
	2894 Feb 11 19:55	30°♌♌			2898 Nov 27 23:38	0°♌	
min. Earth dist.	2894 Feb 14 16:04	28°♌52'19	0.66714 AU		2899 Jan 05 21:02	0°♌	
opposition	2894 Feb 16 10:24	28°♌09'58	4°34'10		2899 Feb 13 06:22	0°♄	
greatest brilliancy	2894 Feb 16 03:04	28°♌17'19	-1.3m		2899 Mar 24 06:43	0°♄	
direct	2894 Mar 28 11:22	18°♌37'10		asc. node	2899 Apr 08 11:18	11°♌25'05	
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desc. node	2894 Sep 01 01:52	27°♌54'10			2899 Jun 15 02:26	0°♌	
	2894 Sep 04 09:18	0°♌					
	2894 Oct 19 14:33	0°♌		conjunction	2899 Jul 03 06:17	12°♌26'03	0°48'12
	2894 Nov 30 15:12	0°♌		minimum elong	2899 Jul 03 04:32	12°♌23'04	0°48'11
evening set	2894 Dec 23 18:06	17°♌16'30		max. Earth dist.	2899 Jul 28 19:09	29°♌32'18	2.59280 AU
	2895 Jan 09 09:49	0°♌			2899 Jul 29 11:54	0°♌	
max. Earth dist.	2895 Feb 02 08:08	18°♌36'26	2.37423 AU	morning rise	2899 Aug 23 07:28	16°♌14'30	
	2895 Feb 16 19:53	0°♌			2899 Sep 13 17:07	0°♌	
conjunction	2895 Feb 24 07:33	5°♌54'31	-1°03'47		2899 Oct 31 12:10	0°♌	
minimum elong	2895 Feb 24 08:39	5°♌56'42	1°03'47		2899 Dec 20 04:02	0°♌	
	2895 Mar 26 19:34	0°♄		desc. node	2900 Feb 11 23:37	0°♌	
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morning rise	2895 May 06 09:05	1°♌36'59		opposition	2900 May 07 08:35	27°♌54'20	
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asc. node	2895 Jul 04 13:54	15°♌39'49		min. Earth dist.	2900 Jun 11 17:16	20°♌39'43	-2.2m
	2895 Jul 24 20:38	0°♌		direct	2900 Jun 19 10:34	17°♌59'20	0.49575 AU
	2895 Sep 07 10:43	0°♌			2900 Jul 19 05:15	12°♌17'32	
	2895 Oct 26 03:10	0°♌			2900 Sep 14 04:49	0°♌	
	2895 Dec 24 06:52	0°♌			2900 Nov 01 04:38	0°♌	
retrograde	2896 Feb 10 14:19	11°♌19'16			2900 Dec 12 15:48	0°♌	
opposition	2896 Mar 21 09:42	1°♌55'11	3°43'14	asc. node	2901 Jan 21 14:28	0°♄	
greatest brilliancy	2896 Mar 21 16:14	1°♌48'44	-1.3m		2901 Feb 24 10:38	25°♄15'38	
min. Earth dist.	2896 Mar 23 12:38	1°♌04'55	0.67282 AU		2901 Mar 02 21:00	0°♄	
	2896 Mar 26 06:54	30°♌♌			2901 Apr 13 10:43	0°♌	
direct	2896 May 01 19:13	21°♌55'31		evening set	2901 May 26 18:39	0°♌	
	2896 Jun 10 18:24	0°♌			2901 Jun 26 19:01	20°♌45'05	
desc. node	2896 Jul 19 00:21	17°♌10'58			2901 Jul 10 20:36	0°♌	
	2896 Aug 11 04:42	0°♌		conjunction	2901 Aug 14 22:45	22°♌44'02	1°08'19
	2896 Sep 27 21:07	0°♌		minimum elong	2901 Aug 14 22:32	22°♌43'40	1°08'20
	2896 Nov 09 14:07	0°♌		max. Earth dist.	2901 Aug 23 13:19	28°♌15'08	2.66129 AU
	2896 Dec 19 11:19	0°♌			2901 Aug 26 06:52	0°♌	
	2897 Jan 26 20:22	0°♌		morning rise	2901 Sep 29 17:53	21°♌56'31	
evening set	2897 Mar 01 05:11	26°♌21'53			2901 Oct 12 10:53	0°♌	
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	2897 Apr 13 09:29	0°♄			2902 Jan 15 12:18	0°♌	
conjunction	2897 May 07 18:08	18°♌27'05	-0°09'07	desc. node	2902 Mar 04 22:05	0°♌	
minimum elong	2897 May 07 18:55	18°♌28'32	0°09'07		2902 Mar 11 21:35	4°♌14'01	
behind sun begin	2897 May 06 19:59	17°♌45'40		retrograde	2902 Apr 25 05:23	0°♌	
behind sun end	2897 May 08 17:51	19°♌11'22		opposition	2902 Jul 18 07:18	29°♌54'07	
asc. node	2897 May 21 13:09	28°♌41'01		greatest brilliancy	2902 Aug 17 10:49	24°♌53'47	-6°45'20
	2897 May 23 08:07	0°♌		min. Earth dist.	2902 Aug 18 07:32	24°♌39'45	-2.9m
max. Earth dist.	2897 Jun 23 10:34	22°♌25'04	2.47443 AU	direct	2902 Aug 20 21:41	23°♌57'44	0.38058 AU
	2897 Jul 04 05:40	0°♌			2902 Aug 20 21:41	23°♌57'44	0.38058 AU
morning rise	2897 Jul 08 18:33	3°♌09'20			2902 Sep 17 10:57	19°♌31'28	
	2897 Aug 17 09:49	0°♌		asc. node	2902 Oct 29 08:06	0°♌	
	2897 Oct 03 01:54	0°♌			2902 Dec 21 12:56	0°♄	
	2897 Nov 22 00:29	0°♌			2903 Jan 12 09:43	14°♄13'26	
	2898 Jan 18 18:40	0°♌			2903 Feb 05 01:33	0°♄	
retrograde	2898 Mar 19 13:47	15°♌54'28			2903 Mar 21 19:49	0°♌	
opposition	2898 Apr 26 16:16	7°♌23'01	1°35'14	evening set	2903 May 06 07:12	0°♌	
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					2903 Aug 06 04:47	28°♌51'57	


























































































































	2903 Aug 07 23:44	0°♈			2908 Jul 13 01:13	0°♊	
max. Earth dist.	2903 Sep 15 13:55	24°♈29'22	2.67552 AU		2908 Aug 25 02:31	0°♊	
				asc. node	2908 Sep 03 07:23	6°♊01'46	
conjunction	2903 Sep 21 00:23	27°♈57'07	0°58'53		2908 Oct 13 05:10	0°♊	
minimum elong	2903 Sep 21 01:21	27°♈58'39	0°58'53	retrograde	2908 Dec 25 15:50	24°♊39'32	
	2903 Sep 24 05:29	0°♊		min. Earth dist.	2909 Jan 31 12:32	16°♊01'02	0.64672 AU
morning rise	2903 Nov 04 05:26	26°♊20'28		opposition	2909 Feb 03 19:26	14°♊42'06	4°32'59
	2903 Nov 09 20:44	0°♋		greatest brilliancy	2909 Feb 03 06:12	14°♊55'21	-1.4m
	2903 Dec 25 11:37	0°♈		direct	2909 Mar 14 22:32	5°♊27'08	
desc. node	2904 Jan 27 20:54	22°♈26'19			2909 Jun 01 11:33	0°♈	
	2904 Feb 07 23:35	0°♈			2909 Jul 26 09:46	0°♊	
	2904 Mar 22 11:39	0°♋			2909 Sep 13 00:29	0°♋	
	2904 May 04 08:48	0°♈		desc. node	2909 Sep 18 17:01	3°♋41'02	
	2904 Jun 16 18:13	0°♈			2909 Oct 27 21:26	0°♈	
	2904 Aug 03 19:11	0°♈		evening set	2909 Dec 03 02:59	25°♈46'17	
retrograde	2904 Sep 30 00:40	18°♈39'14			2909 Dec 08 21:32	0°♈	
min. Earth dist.	2904 Oct 26 20:16	13°♈51'14	0.42080 AU	max. Earth dist.	2909 Dec 20 18:53	8°♈48'15	2.41655 AU
opposition	2904 Nov 03 12:17	11°♈22'18	-1°36'50		2910 Jan 17 18:29	0°♋	
greatest brilliancy	2904 Nov 03 02:16	11°♈30'26	-2.7m				
asc. node	2904 Nov 29 07:58	5°♈35'24		conjunction	2910 Jan 29 12:10	9°♋03'23	-1°02'15
direct	2904 Dec 04 17:54	5°♈23'25		minimum elong	2910 Jan 29 10:50	9°♋00'48	1°02'16
	2905 Feb 16 22:34	0°♊			2910 Feb 25 07:29	0°♈	
	2905 Apr 11 05:59	0°♊			2910 Apr 04 09:16	0°♈	
	2905 May 31 05:06	0°♊		morning rise	2910 Apr 06 18:03	1°♈51'38	
	2905 Jul 19 02:58	0°♈			2910 May 12 21:15	0°♈	
	2905 Sep 05 00:58	0°♊			2910 Jun 21 16:11	0°♊	
evening set	2905 Sep 11 04:02	3°♊53'39		asc. node	2910 Jul 22 05:56	22°♊03'55	
max. Earth dist.	2905 Oct 08 10:57	21°♊26'40	2.63529 AU		2910 Aug 02 14:07	0°♊	
	2905 Oct 21 13:16	0°♋			2910 Sep 16 15:28	0°♊	
					2910 Nov 06 05:29	0°♈	
conjunction	2905 Oct 26 16:43	3°♋23'10	0°27'00	retrograde	2911 Jan 29 01:52	28°♈40'16	
minimum elong	2905 Oct 26 17:33	3°♋24'33	0°26'59	opposition	2911 Mar 10 04:55	19°♈02'19	4°11'36
	2905 Dec 05 07:51	0°♈		greatest brilliancy	2911 Mar 10 06:39	19°♈00'35	-1.3m
morning rise	2905 Dec 11 13:18	4°♈16'19		min. Earth dist.	2911 Mar 10 19:25	18°♈47'53	0.67843 AU
desc. node	2905 Dec 14 19:20	6°♈30'46		direct	2911 Apr 20 05:24	9°♈10'04	
	2906 Jan 17 07:09	0°♈			2911 Jun 29 10:47	0°♊	
	2906 Feb 27 15:52	0°♋		desc. node	2911 Aug 06 15:26	20°♊29'13	
	2906 Apr 08 19:30	0°♈			2911 Aug 22 14:48	0°♋	
	2906 May 18 09:42	0°♈			2911 Oct 07 23:47	0°♈	
	2906 Jun 27 11:50	0°♈			2911 Nov 19 08:00	0°♈	
	2906 Aug 08 22:37	0°♊			2911 Dec 29 03:00	0°♋	
	2906 Sep 28 08:05	0°♊		evening set	2912 Feb 02 19:10	27°♋52'59	
asc. node	2906 Oct 17 07:22	8°♊13'59			2912 Feb 05 11:31	0°♈	
retrograde	2906 Nov 18 16:19	14°♊43'35			2912 Mar 14 10:04	0°♈	
min. Earth dist.	2906 Dec 20 11:36	7°♊50'28	0.55188 AU				
opposition	2906 Dec 27 11:05	5°♊08'58	3°11'17	conjunction	2912 Apr 11 04:31	21°♈44'00	-0°36'55
greatest brilliancy	2906 Dec 26 14:39	5°♊28'44	-1.9m	minimum elong	2912 Apr 11 07:34	21°♈49'55	0°36'52
	2907 Jan 11 10:32	30°♋♊			2912 Apr 21 21:26	0°♈	
direct	2907 Feb 01 08:49	27°♊05'01			2912 May 31 17:08	0°♊	
	2907 Feb 23 21:17	0°♊		max. Earth dist.	2912 Jun 02 08:42	1°♊12'49	2.41996 AU
	2907 May 05 22:58	0°♊		asc. node	2912 Jun 08 04:46	5°♊29'24	
	2907 Jun 28 12:10	0°♈		morning rise	2912 Jun 17 14:46	12°♊19'28	
	2907 Aug 17 04:17	0°♊			2912 Jul 12 12:11	0°♊	
	2907 Oct 03 04:30	0°♋			2912 Aug 25 17:23	0°♊	
evening set	2907 Oct 19 11:57	10°♋47'59			2912 Oct 11 20:40	0°♈	
desc. node	2907 Nov 01 18:21	19°♋44'41			2912 Dec 02 15:40	0°♊	
max. Earth dist.	2907 Nov 05 12:07	22°♋17'34	2.54402 AU		2913 Feb 13 08:10	0°♋	
	2907 Nov 16 17:12	0°♈		retrograde	2913 Mar 05 01:07	2°♋10'47	
					2913 Mar 23 14:27	30°♋♊	
conjunction	2907 Dec 07 02:47	14°♈17'59	-0°20'31	opposition	2913 Apr 12 23:27	23°♊15'32	2°35'00
minimum elong	2907 Dec 07 01:55	14°♈16'26	0°20'31	greatest brilliancy	2913 Apr 13 09:46	23°♊05'31	-1.4m
	2907 Dec 28 23:02	0°♈		min. Earth dist.	2913 Apr 17 10:10	21°♊32'02	0.64377 AU
morning rise	2908 Jan 28 16:44	22°♈44'16		direct	2913 May 24 10:47	13°♊14'07	
	2908 Feb 07 07:50	0°♋		desc. node	2913 Jun 23 14:16	18°♊14'42	
	2908 Mar 17 09:45	0°♈			2913 Jul 23 01:35	0°♋	
	2908 Apr 24 22:29	0°♈			2913 Sep 14 00:14	0°♈	
	2908 Jun 02 19:19	0°♈			2913 Oct 28 01:53	0°♈	

	2913 Dec 07 10:36	0°≈		max. Earth dist.	2918 Sep 06 16:36	14°♎32'31	2.67648 AU
	2914 Jan 15 01:07	0°✕			2918 Sep 30 23:35	0°♊	
	2914 Feb 22 05:00	0°♑		morning rise	2918 Oct 21 09:21	13°♊01'29	
	2914 Apr 01 23:31	0°♄			2918 Nov 16 20:03	0°♎	
evening set	2914 Apr 14 08:02	9°♄21'31			2919 Jan 02 01:05	0°♊	
asc. node	2914 Apr 26 04:22	18°♄13'25		desc. node	2919 Feb 13 11:48	27°♊56'10	
	2914 May 12 04:01	0°♈			2919 Feb 16 14:36	0°♊	
					2919 Apr 02 19:23	0°≈	
conjunction	2914 Jun 14 11:50	23°♈51'37 0°30'22			2919 May 18 11:47	0°✕	
minimum elong	2914 Jun 14 10:09	23°♈48'41 0°30'21			2919 Jul 07 06:02	0°♑	
	2914 Jun 23 06:46	0°♊		retrograde	2919 Sep 05 07:25	19°♑25'26	
max. Earth dist.	2914 Jul 17 22:48	16°♊54'27 2.55163 AU		min. Earth dist.	2919 Oct 02 03:59	14°♑58'32 0.38287 AU	
	2914 Aug 06 12:19	0°♎		opposition	2919 Oct 06 23:32	13°♑36'49 -4°33'02	
morning rise	2914 Aug 08 00:36	1°♎00'04		greatest brilliancy	2919 Oct 06 09:10	13°♑47'01 -2.9m	
	2914 Sep 21 18:53	0°♎		direct	2919 Nov 05 16:45	8°♑29'19	
	2914 Nov 09 03:09	0°♊		asc. node	2919 Dec 17 01:26	18°♑06'08	
	2914 Dec 30 14:03	0°♎			2920 Jan 11 05:54	0°♄	
	2915 Mar 02 03:53	0°♊			2920 Mar 03 10:41	0°♈	
retrograde	2915 Apr 17 08:44	10°♊15'23			2920 Apr 21 01:33	0°♊	
desc. node	2915 May 11 14:04	6°♊35'57			2920 Jun 08 05:12	0°♎	
opposition	2915 May 23 15:11	2°♊33'23 -0°32'21			2920 Jul 26 06:46	0°♎	
greatest brilliancy	2915 May 23 18:54	2°♊29'59 -1.9m		evening set	2920 Aug 27 22:01	20°♎31'19	
	2915 May 30 15:10	30°♎			2920 Sep 11 20:33	0°♊	
min. Earth dist.	2915 May 31 09:30	29°♎43'33 0.54665 AU		max. Earth dist.	2920 Sep 29 00:44	10°♊58'48 2.65738 AU	
direct	2915 Jul 02 10:37	23°♎12'41					
	2915 Aug 05 09:12	0°♊		conjunction	2920 Oct 12 05:08	19°♊29'05 0°41'38	
	2915 Oct 01 06:44	0°♊		minimum elong	2920 Oct 12 06:13	19°♊30'50 0°41'38	
	2915 Nov 13 14:52	0°≈			2920 Oct 28 08:43	0°♎	
	2915 Dec 23 13:24	0°✕		morning rise	2920 Nov 25 23:36	18°♎56'39	
	2916 Jan 31 15:15	0°♑			2920 Dec 12 09:25	0°♊	
	2916 Mar 11 05:49	0°♄		desc. node	2920 Dec 31 10:37	13°♊01'18	
asc. node	2916 Mar 13 02:17	1°♄22'53			2921 Jan 24 20:11	0°♊	
	2916 Apr 21 06:02	0°♈			2921 Mar 07 20:03	0°≈	
	2916 Jun 03 02:38	0°♊			2921 Apr 17 17:20	0°✕	
evening set	2916 Jun 08 20:45	3°♊55'38			2921 May 28 03:52	0°♑	
	2916 Jul 17 20:22	0°♎			2921 Jul 08 11:45	0°♄	
					2921 Aug 22 23:44	0°♈	
conjunction	2916 Jul 30 09:18	8°♎12'58 1°04'32		retrograde	2921 Nov 01 08:51	25°♈46'29	
minimum elong	2916 Jul 30 08:25	8°♎11'31 1°04'32		asc. node	2921 Nov 03 00:25	25°♈45'17	
max. Earth dist.	2916 Aug 14 04:09	17°♎48'53 2.64099 AU		min. Earth dist.	2921 Nov 30 22:52	19°♈43'59 0.50127 AU	
	2916 Sep 02 02:50	0°♎		opposition	2921 Dec 08 23:10	16°♈46'30 1°52'08	
morning rise	2916 Sep 15 17:04	8°♎40'29		greatest brilliancy	2921 Dec 08 08:40	16°♈59'56 -2.2m	
	2916 Oct 19 10:09	0°♊		direct	2922 Jan 12 04:31	9°♈24'31	
	2916 Dec 06 11:18	0°♎			2922 Mar 21 08:12	0°♊	
	2917 Jan 24 14:42	0°♊			2922 May 16 11:24	0°♎	
desc. node	2917 Mar 17 18:59	0°♊			2922 Jul 06 13:13	0°♎	
	2917 Mar 28 12:55	5°♊42'02			2922 Aug 24 08:30	0°♊	
	2917 May 27 16:52	0°≈		evening set	2922 Oct 04 02:22	26°♊04'02	
retrograde	2917 Jun 16 17:27	2°≈19'29			2922 Oct 10 02:31	0°♎	
	2917 Jul 06 06:33	30°♎		max. Earth dist.	2922 Oct 24 16:20	9°♎38'54 2.58548 AU	
opposition	2917 Jul 18 12:11	26°♎38'59 -5°28'04		desc. node	2922 Nov 18 09:36	26°♎21'50	
greatest brilliancy	2917 Jul 19 20:18	26°♎14'47 -2.6m					
min. Earth dist.	2917 Jul 25 16:54	24°♎29'49 0.41623 AU		conjunction	2922 Nov 20 00:25	27°♎28'25 -0°00'57	
direct	2917 Aug 21 12:21	19°♎57'27		minimum elong	2922 Nov 20 00:22	27°♎28'20 0°00'58	
	2917 Oct 01 01:28	0°≈		behind sun begin	2922 Nov 19 04:22	26°♎54'00	
	2917 Nov 22 01:58	0°✕		behind sun end	2922 Nov 20 20:23	28°♎02'41	
	2918 Jan 04 12:47	0°♑			2922 Nov 23 16:33	0°♊	
asc. node	2918 Jan 29 01:10	17°♑23'50			2923 Jan 05 04:13	0°♊	
	2918 Feb 15 20:04	0°♄		morning rise	2923 Jan 08 02:55	2°♊07'58	
	2918 Mar 30 20:15	0°♈			2923 Feb 14 20:49	0°≈	
	2918 May 14 05:18	0°♊			2923 Mar 26 06:47	0°✕	
	2918 Jun 29 00:39	0°♎			2923 May 04 02:45	0°♑	
evening set	2918 Jul 22 05:27	14°♎55'25			2923 Jun 12 06:35	0°♄	
	2918 Aug 14 20:06	0°♎			2923 Jul 22 23:29	0°♈	
					2923 Sep 05 05:50	0°♊	
conjunction	2918 Sep 06 22:31	14°♎41'56 1°05'30		asc. node	2923 Sep 20 22:45	9°♊38'16	
minimum elong	2918 Sep 06 23:09	14°♎42'56 1°05'31			2923 Oct 30 06:52	0°♎	



retrograde	2923 Dec 12 15:40	10°Ω24'21			2928 Dec 15 11:54	0°≈	
min. Earth dist.	2924 Jan 16 16:28	2°Ω22'28	0.61674 AU		2929 Jan 22 22:25	0°℥	
opposition	2924 Jan 21 11:18	0°Ω28'15	4°17'09		2929 Mar 01 22:47	0°Υ	
greatest brilliancy	2924 Jan 20 17:09	0°Ω46'20	-1.6m	evening set	2929 Mar 18 07:55	12°Υ49'43	
	2924 Jan 22 15:45	30°℞			2929 Apr 09 13:03	0°℞	
direct	2924 Feb 28 11:54	21°♄35'59		asc. node	2929 May 12 19:32	25°♄03'14	
	2924 Apr 09 13:36	0°Ω			2929 May 19 12:43	0°♄	
	2924 Jun 12 11:10	0°♐					
	2924 Aug 03 13:04	0°♌		conjunction	2929 May 23 00:06	2°♄32'37	0°06'41
	2924 Sep 20 08:30	0°♍		minimum elong	2929 May 22 23:36	2°♄31'42	0°06'40
desc. node	2924 Oct 05 08:17	9°♍51'11		behind sun begin	2929 May 21 23:29	1°♄47'38	
	2924 Nov 04 00:44	0°♌		behind sun end	2929 May 23 23:43	3°♄15'42	
evening set	2924 Nov 13 23:33	6°♌56'36			2929 Jun 30 10:58	0°♄	
max. Earth dist.	2924 Nov 28 05:32	17°♌03'14	2.46836 AU	max. Earth dist.	2929 Jul 04 00:46	2°♄29'19	2.50362 AU
	2924 Dec 16 02:24	0°♌		morning rise	2929 Jul 21 01:43	14°♄12'07	
					2929 Aug 13 14:20	0°Ω	
conjunction	2925 Jan 06 01:04	15°♌32'05	-0°49'47		2929 Sep 29 01:06	0°♐	
minimum elong	2925 Jan 05 23:07	15°♌28'26	0°49'45		2929 Nov 17 05:35	0°♌	
	2925 Jan 25 03:17	0°≈			2930 Jan 10 18:09	0°♍	
	2925 Mar 04 20:35	0°℥		retrograde	2930 Mar 30 02:21	24°♍39'06	
morning rise	2925 Mar 07 23:11	2°℥26'04		opposition	2930 May 06 15:06	16°♍23'21	0°53'26
	2925 Apr 12 01:40	0°Υ		greatest brilliancy	2930 May 06 20:56	16°♍17'52	-1.7m
	2925 May 20 15:36	0°♄		min. Earth dist.	2930 May 13 05:34	13°♍54'08	0.59167 AU
	2925 Jun 29 12:20	0°♄		desc. node	2930 May 28 04:55	9°♍04'32	
asc. node	2925 Aug 07 22:58	28°♄08'49		direct	2930 Jun 16 10:25	6°♍37'20	
	2925 Aug 10 15:32	0°♄			2930 Aug 25 20:26	0°♌	
	2925 Sep 25 12:42	0°Ω			2930 Oct 12 19:00	0°♌	
	2925 Nov 18 23:02	0°♐			2930 Nov 23 08:55	0°≈	
retrograde	2926 Jan 15 18:55	15°♐56'43			2931 Jan 01 13:19	0°℥	
min. Earth dist.	2926 Feb 24 03:22	6°♐30'01	0.67394 AU		2931 Feb 09 03:04	0°Υ	
opposition	2926 Feb 25 01:22	6°♐08'02	4°29'11		2931 Mar 20 06:53	0°♄	
greatest brilliancy	2926 Feb 24 21:23	6°♐12'01	-1.3m	asc. node	2931 Mar 30 19:37	7°♄54'17	
	2926 Mar 13 22:09	30°℞Ω			2931 Apr 29 20:55	0°♄	
direct	2926 Apr 06 11:35	26°Ω27'08		evening set	2931 May 20 21:25	15°♄01'25	
	2926 May 02 04:13	0°♐			2931 Jun 11 08:25	0°♄	
	2926 Jul 11 00:42	0°♌					
desc. node	2926 Aug 23 07:23	25°♌09'22		conjunction	2931 Jul 14 14:01	22°♄32'34	0°55'47
	2926 Aug 31 02:17	0°♍		minimum elong	2931 Jul 14 12:30	22°♄30'02	0°55'46
	2926 Oct 15 16:26	0°♌			2931 Jul 25 19:31	0°Ω	
	2926 Nov 26 19:50	0°♌		max. Earth dist.	2931 Aug 05 02:12	6°Ω45'59	2.61212 AU
	2927 Jan 05 14:35	0°≈		morning rise	2931 Sep 02 02:17	24°Ω56'04	
evening set	2927 Jan 07 09:30	1°≈22'45			2931 Sep 09 23:56	0°♐	
	2927 Feb 13 00:03	0°℥			2931 Oct 27 13:21	0°♌	
					2931 Dec 15 11:50	0°♍	
conjunction	2927 Mar 13 18:02	22°℥43'44	-0°57'56		2932 Feb 05 01:11	0°♌	
minimum elong	2927 Mar 13 20:42	22°℥49'01	0°57'56		2932 Apr 06 16:50	0°♌	
	2927 Mar 22 23:05	0°Υ		desc. node	2932 Apr 14 03:50	2°♌41'07	
max. Earth dist.	2927 Apr 14 14:06	17°Υ44'42	2.37374 AU	retrograde	2932 May 20 17:21	9°♌35'17	
	2927 Apr 30 09:41	0°♄		opposition	2932 Jun 23 09:52	3°♌01'58	-3°26'21
morning rise	2927 May 23 17:17	17°♄45'01		greatest brilliancy	2932 Jun 24 10:17	2°♌41'36	-2.3m
	2927 Jun 09 03:50	0°♄		min. Earth dist.	2932 Jul 01 19:15	0°♌14'44	0.46635 AU
asc. node	2927 Jun 25 21:22	12°♄13'10			2932 Jul 02 13:40	30°℞♌	
	2927 Jul 20 21:58	0°♄		direct	2932 Jul 30 07:49	25°♌00'09	
	2927 Sep 03 06:46	0°Ω			2932 Aug 27 06:53	0°♌	
	2927 Oct 21 04:41	0°♐			2932 Oct 23 13:59	0°≈	
	2927 Dec 15 09:18	0°♌			2932 Dec 05 18:22	0°℥	
retrograde	2928 Feb 19 13:14	19°♌05'44			2933 Jan 15 12:25	0°Υ	
opposition	2928 Mar 30 02:21	9°♌50'52	3°21'26	asc. node	2933 Feb 14 18:53	22°Υ19'18	
greatest brilliancy	2928 Mar 30 10:51	9°♌42'32	-1.3m		2933 Feb 25 07:17	0°♄	
min. Earth dist.	2928 Apr 02 01:18	8°♌41'12	0.66540 AU		2933 Apr 08 06:13	0°♄	
	2928 May 05 04:45	30°℞♐			2933 May 21 20:56	0°♄	
direct	2928 May 10 14:10	29°♐48'56		evening set	2933 Jul 06 08:23	0°Ω07'51	
	2928 May 16 01:43	0°♌			2933 Jul 06 03:34	0°Ω	
desc. node	2928 Jul 10 06:25	16°♌37'57			2933 Aug 21 15:58	0°♐	
	2928 Aug 05 07:29	0°♍					
	2928 Sep 23 08:11	0°♌		conjunction	2933 Aug 23 11:39	1°♐09'48	1°08'27
	2928 Nov 05 11:11	0°♌		minimum elong	2933 Aug 23 11:47	1°♐10'00	1°08'27

max. Earth dist.	2933 Aug 28 21:42	4° $\mathbb{M}$ 37'20	2.66892 AU	min. Earth dist.	2938 Dec 30 18:21	17° $\mathbb{G}$ 30'07	0.57730 AU
morning rise	2933 Oct 07 16:05	29° $\mathbb{M}$ 55'16		opposition	2939 Jan 05 23:35	15° $\mathbb{G}$ 03'58	3°42'28
	2933 Oct 07 19:04	0° $\mathbb{L}$		greatest brilliancy	2939 Jan 05 02:47	15° $\mathbb{G}$ 24'23	-1.8m
	2933 Nov 23 23:29	0° $\mathbb{M}$		direct	2939 Feb 11 16:40	6° $\mathbb{G}$ 40'45	
	2934 Jan 10 00:11	0° $\mathbb{J}$			2939 Apr 27 21:52	0° $\mathbb{Q}$	
	2934 Feb 26 03:33	0° $\mathbb{Z}$			2939 Jun 22 19:23	0° $\mathbb{M}$	
desc. node	2934 Mar 02 03:01	2° $\mathbb{Z}$ 30'56			2939 Aug 12 05:03	0° $\mathbb{L}$	
	2934 Apr 15 08:19	0° $\approx$			2939 Sep 28 11:54	0° $\mathbb{M}$	
	2934 Jun 07 12:29	0° $\mathbb{H}$		desc. node	2939 Oct 23 00:19	16° $\mathbb{M}$ 16'46	
retrograde	2934 Aug 05 13:46	17° $\mathbb{H}$ 39'11		evening set	2939 Oct 28 16:16	20° $\mathbb{M}$ 06'51	
opposition	2934 Sep 04 17:03	12° $\mathbb{H}$ 40'49	-6°36'10		2939 Nov 12 02:08	0° $\mathbb{J}$	
greatest brilliancy	2934 Sep 04 22:46	12° $\mathbb{H}$ 37'02	-2.9m	max. Earth dist.	2939 Nov 13 03:38	0° $\mathbb{J}$ 44'09	2.51844 AU
min. Earth dist.	2934 Sep 05 02:12	12° $\mathbb{H}$ 34'45	0.37217 AU				
direct	2934 Oct 04 12:11	7° $\mathbb{H}$ 42'56		conjunction	2939 Dec 17 14:28	25° $\mathbb{J}$ 08'43	-0°31'46
	2934 Dec 09 14:49	0° $\mathbb{Y}$		minimum elong	2939 Dec 17 13:06	25° $\mathbb{J}$ 06'15	0°31'45
asc. node	2935 Jan 02 17:00	14° $\mathbb{Y}$ 01'53			2939 Dec 24 06:52	0° $\mathbb{Z}$	
	2935 Jan 28 05:41	0° $\mathbb{B}$			2940 Feb 02 12:50	0° $\approx$	
	2935 Mar 15 13:45	0° $\mathbb{I}$		morning rise	2940 Feb 10 18:14	6° $\approx$ 16'18	
	2935 Apr 30 21:02	0° $\mathbb{G}$			2940 Mar 12 11:21	0° $\mathbb{H}$	
	2935 Jun 16 20:20	0° $\mathbb{Q}$			2940 Apr 19 20:47	0° $\mathbb{Y}$	
	2935 Aug 03 07:07	0° $\mathbb{M}$			2940 May 28 14:03	0° $\mathbb{B}$	
evening set	2935 Aug 14 13:24	7° $\mathbb{M}$ 06'47			2940 Jul 07 14:55	0° $\mathbb{I}$	
	2935 Sep 19 15:13	0° $\mathbb{L}$			2940 Aug 19 04:41	0° $\mathbb{G}$	
max. Earth dist.	2935 Sep 20 19:55	0° $\mathbb{L}$ 45'47	2.67128 AU	asc. node	2940 Aug 24 13:52	3° $\mathbb{G}$ 36'52	
					2940 Oct 05 14:48	0° $\mathbb{Q}$	
conjunction	2935 Sep 29 01:53	6° $\mathbb{L}$ 01'58	0°53'25		2940 Dec 11 09:27	0° $\mathbb{M}$	
minimum elong	2935 Sep 29 02:56	6° $\mathbb{L}$ 03'40	0°53'25	retrograde	2941 Jan 02 11:18	2° $\mathbb{M}$ 53'37	
	2935 Nov 05 05:02	0° $\mathbb{M}$			2941 Jan 23 03:01	30° $\mathbb{R}$ $\mathbb{Q}$	
morning rise	2935 Nov 12 08:31	4° $\mathbb{M}$ 40'00		min. Earth dist.	2941 Feb 09 06:34	23° $\mathbb{Q}$ 56'28	0.65934 AU
	2935 Dec 20 14:25	0° $\mathbb{J}$		opposition	2941 Feb 11 16:54	22° $\mathbb{Q}$ 58'02	4°35'20
desc. node	2936 Jan 18 01:34	19° $\mathbb{J}$ 16'10		greatest brilliancy	2941 Feb 11 06:55	23° $\mathbb{Q}$ 08'03	-1.4m
	2936 Feb 02 16:32	0° $\mathbb{Z}$		direct	2941 Mar 23 08:07	13° $\mathbb{Q}$ 32'36	
	2936 Mar 16 13:39	0° $\approx$			2941 May 23 17:02	0° $\mathbb{M}$	
	2936 Apr 27 13:45	0° $\mathbb{H}$			2941 Jul 20 14:43	0° $\mathbb{L}$	
	2936 Jun 08 12:07	0° $\mathbb{Y}$			2941 Sep 07 23:29	0° $\mathbb{M}$	
	2936 Jul 22 15:10	0° $\mathbb{B}$		desc. node	2941 Sep 08 22:33	0° $\mathbb{M}$ 36'52	
	2936 Sep 20 02:45	0° $\mathbb{I}$			2941 Oct 23 02:30	0° $\mathbb{J}$	
retrograde	2936 Oct 12 14:46	3° $\mathbb{I}$ 28'58			2941 Dec 04 04:20	0° $\mathbb{Z}$	
	2936 Nov 03 18:40	30° $\mathbb{R}$ $\mathbb{B}$		evening set	2941 Dec 14 23:30	7° $\mathbb{Z}$ 59'32	
min. Earth dist.	2936 Nov 09 04:10	28° $\mathbb{B}$ 17'46	0.44807 AU	max. Earth dist.	2942 Jan 08 20:12	26° $\mathbb{Z}$ 46'55	2.39065 AU
opposition	2936 Nov 17 09:57	25° $\mathbb{B}$ 28'20	-0°08'07		2942 Jan 13 00:51	0° $\approx$	
greatest brilliancy	2935 Nov 17 04:50	7° $\mathbb{M}$ 50'37	1.7m				
asc. node	2936 Nov 19 16:36	24° $\mathbb{B}$ 41'57		conjunction	2942 Feb 13 04:21	24° $\approx$ 13'29	-1°04'50
direct	2936 Dec 19 16:16	18° $\mathbb{B}$ 58'21		minimum elong	2942 Feb 13 04:13	24° $\approx$ 13'14	1°04'50
	2937 Feb 03 17:48	0° $\mathbb{I}$			2942 Feb 20 12:39	0° $\mathbb{H}$	
	2937 Apr 04 02:54	0° $\mathbb{G}$			2942 Mar 30 13:09	0° $\mathbb{Y}$	
	2937 May 25 14:48	0° $\mathbb{Q}$		morning rise	2942 Apr 24 02:54	19° $\mathbb{Y}$ 15'22	
	2937 Jul 14 03:55	0° $\mathbb{M}$			2942 May 07 23:48	0° $\mathbb{B}$	
	2937 Aug 31 08:46	0° $\mathbb{L}$			2942 Jun 16 17:09	0° $\mathbb{I}$	
evening set	2937 Sep 19 09:33	12° $\mathbb{L}$ 06'58		asc. node	2942 Jul 12 13:43	18° $\mathbb{I}$ 46'28	
max. Earth dist.	2937 Oct 14 04:35	28° $\mathbb{L}$ 11'03	2.61951 AU		2942 Jul 28 11:54	0° $\mathbb{G}$	
	2937 Oct 16 23:01	0° $\mathbb{M}$			2942 Sep 11 03:59	0° $\mathbb{Q}$	
					2942 Oct 30 09:28	0° $\mathbb{M}$	
conjunction	2937 Nov 04 06:40	12° $\mathbb{M}$ 08'10	0°17'20		2943 Jan 01 21:44	0° $\mathbb{L}$	
minimum elong	2937 Nov 04 07:15	12° $\mathbb{M}$ 09'09	0°17'20	retrograde	2943 Feb 05 19:39	6° $\mathbb{L}$ 24'32	
	2937 Nov 30 15:56	0° $\mathbb{J}$			2943 Mar 09 18:06	30° $\mathbb{R}$ $\mathbb{M}$	
desc. node	2937 Dec 05 00:53	3° $\mathbb{J}$ 00'23		opposition	2943 Mar 17 18:38	26° $\mathbb{M}$ 53'53	3°56'12
morning rise	2937 Dec 21 01:25	14° $\mathbb{J}$ 08'10		greatest brilliancy	2943 Mar 17 23:11	26° $\mathbb{M}$ 49'22	-1.3m
	2938 Jan 12 11:00	0° $\mathbb{Z}$		min. Earth dist.	2943 Mar 19 05:29	26° $\mathbb{M}$ 19'21	0.67664 AU
	2938 Feb 22 13:33	0° $\approx$		direct	2943 Apr 28 00:13	16° $\mathbb{M}$ 56'54	
	2938 Apr 03 10:14	0° $\mathbb{H}$			2943 Jun 19 21:07	0° $\mathbb{L}$	
	2938 May 12 16:50	0° $\mathbb{Y}$		desc. node	2943 Jul 27 20:56	18° $\mathbb{L}$ 42'24	
	2938 Jun 21 08:33	0° $\mathbb{B}$			2943 Aug 16 14:29	0° $\mathbb{M}$	
	2938 Aug 01 22:12	0° $\mathbb{I}$			2943 Oct 02 18:07	0° $\mathbb{J}$	
	2938 Sep 17 19:48	0° $\mathbb{G}$			2943 Nov 14 08:41	0° $\mathbb{Z}$	
asc. node	2938 Oct 07 15:47	10° $\mathbb{G}$ 30'30			2943 Dec 24 05:45	0° $\approx$	
retrograde	2938 Nov 27 18:16	24° $\mathbb{G}$ 49'38			2944 Jan 31 14:58	0° $\mathbb{H}$	

evening set	2944 Feb 18 15:51	14°  15'45		2949 Jan 18 13:15	0° 	
	2944 Mar 09 13:59	0° 		2949 Mar 09 06:33	0° 	
	2944 Apr 17 01:46	0° 	desc. node	2949 Mar 18 17:51	5°  29'53	
				2949 May 03 15:06	0° 	
conjunction	2944 Apr 27 01:50	7°  38'58 -0°21'20	retrograde	2949 Jul 04 03:11	17°  42'36	
minimum elong	2944 Apr 27 03:43	7°  42'33 0°21'19	opposition	2949 Aug 03 19:32	12°  28'17 -6°22'35	
	2944 May 26 21:56	0° 	greatest brilliancy	2949 Aug 05 00:33	12°  07'48 -2.8m	
asc. node	2944 May 29 13:14	1°  56'21	min. Earth dist.	2949 Aug 09 06:53	10°  55'50 0.39382 AU	
max. Earth dist.	2944 Jun 15 21:10	14°  31'48 2.45007 AU	direct	2949 Sep 05 02:43	6°  33'48	
morning rise	2944 Jun 30 13:46	24°  59'30		2949 Nov 10 13:15	0° 	
	2944 Jul 07 16:53	0° 		2949 Dec 27 13:48	0° 	
	2944 Aug 20 19:35	0° 	asc. node	2950 Jan 19 09:53	15°  09'34'55	
	2944 Oct 06 14:08	0° 		2950 Feb 09 08:16	0° 	
	2944 Nov 26 02:40	0° 		2950 Mar 25 04:11	0° 	
	2945 Jan 26 04:52	0° 		2950 May 09 01:50	0° 	
retrograde	2945 Mar 13 18:32	10°  24'19		2950 Jun 24 04:59	0° 	
opposition	2945 Apr 21 06:20	1°  41'40 2°01'49	evening set	2950 Jul 30 20:55	23°  02'54	
greatest brilliancy	2945 Apr 21 16:12	1°  32'10 -1.5m		2950 Aug 10 04:50	0° 	
	2945 Apr 25 15:54	30°  08'45	max. Earth dist.	2950 Sep 11 20:54	20°  45'14 2.67699 AU	
min. Earth dist.	2945 Apr 26 12:13	29°  40'34 0.62784 AU				
direct	2945 Jun 01 14:11	21°  43'03	conjunction	2950 Sep 15 00:32	22°  45'28 1°02'03	
desc. node	2945 Jun 13 20:12	22°  43'20	minimum elong	2950 Sep 15 01:22	22°  46'48 1°02'03	
	2945 Jul 11 00:22	0° 		2950 Sep 26 09:31	0° 	
	2945 Sep 07 09:01	0° 	morning rise	2950 Oct 29 06:39	21°  03'20	
	2945 Oct 22 10:30	0° 		2950 Nov 12 03:13	0° 	
	2945 Dec 02 03:32	0° 		2950 Dec 28 00:29	0° 	
	2946 Jan 09 21:55	0° 	desc. node	2951 Feb 03 17:47	25°  08'10	
	2946 Feb 17 04:26	0° 		2951 Feb 10 23:18	0° 	
	2946 Mar 28 01:13	0° 		2951 Mar 27 03:20	0° 	
asc. node	2946 Apr 16 11:30	14°  37'45		2951 May 10 00:25	0° 	
evening set	2946 Apr 28 08:32	23°  25'39		2951 Jun 24 04:54	0° 	
	2946 May 07 08:00	0° 		2951 Aug 18 17:46	0° 	
	2946 Jun 18 12:49	0° 	retrograde	2951 Sep 20 09:58	6°  53'14	
			min. Earth dist.	2951 Oct 16 22:52	2°  19'43 0.40130 AU	
conjunction	2946 Jun 26 00:27	5°  10'23 0°41'23	opposition	2951 Oct 23 16:28	0°  16'09 -2°52'12	
minimum elong	2946 Jun 25 22:38	5°  07'15 0°41'22	greatest brilliancy	2951 Oct 23 01:54	0°  27'20 -2.8m	
max. Earth dist.	2946 Jul 24 22:10	24°  45'47 2.57533 AU		2951 Oct 24 13:35	30°  08'00	
	2946 Aug 01 19:07	0° 	direct	2951 Nov 23 03:38	24°  09'42'21	
morning rise	2946 Aug 17 11:58	10°  09'58	asc. node	2951 Dec 07 08:06	25°  09'59'49	
	2946 Sep 16 23:33	0° 		2951 Dec 23 03:00	0° 	
	2946 Nov 03 22:46	0° 		2952 Feb 24 01:29	0° 	
	2946 Dec 24 05:25	0° 		2952 Apr 14 21:19	0° 	
	2947 Feb 18 07:30	0° 		2952 Jun 02 22:58	0° 	
retrograde	2947 Apr 28 21:06	20°  26'52		2952 Jul 21 11:14	0° 	
desc. node	2947 May 01 18:49	20°  23'44	evening set	2952 Sep 05 01:32	28°  43'56	
opposition	2947 Jun 03 06:54	13°  06'43 -1°30'35		2952 Sep 07 05:53	0° 	
greatest brilliancy	2947 Jun 03 17:41	12°  05'07 -2.0m	max. Earth dist.	2952 Oct 04 11:37	17°  42'35 2.64628 AU	
min. Earth dist.	2947 Jun 11 11:20	10°  07'25 0.51920 AU				
direct	2947 Jul 12 06:37	4°  07'25	conjunction	2952 Oct 20 10:08	27°  48'07 0°33'27	
	2947 Sep 22 09:55	0° 	minimum elong	2952 Oct 20 11:06	27°  49'42 0°33'27	
	2947 Nov 06 21:01	0° 		2952 Oct 23 18:45	0° 	
	2947 Dec 17 13:30	0° 	morning rise	2952 Dec 04 16:56	27°  49'57'41	
	2948 Jan 26 01:30	0° 		2952 Dec 07 16:53	0° 	
asc. node	2948 Mar 03 10:35	28°  07'20	desc. node	2952 Dec 21 16:29	9°  34'51	
	2948 Mar 05 23:18	0° 		2953 Jan 19 22:00	0° 	
	2948 Apr 16 05:21	0° 		2953 Mar 02 13:49	0° 	
	2948 May 29 06:44	0° 		2953 Apr 12 01:01	0° 	
evening set	2948 Jun 19 06:55	14°  01'05		2953 May 21 23:09	0° 	
	2948 Jul 13 03:45	0° 		2953 Jul 01 10:59	0° 	
				2953 Aug 13 18:56	0° 	
conjunction	2948 Aug 08 09:57	17°  05'55 1°07'18		2953 Oct 08 02:58	0° 	
minimum elong	2948 Aug 08 09:27	17°  05'06 1°07'17	asc. node	2953 Oct 24 07:27	5°  07'07	
max. Earth dist.	2948 Aug 19 17:50	24°  02'3'50 2.65329 AU	retrograde	2953 Nov 11 12:40	7°  02'10'08	
	2948 Aug 28 11:26	0°	min. Earth dist.	2953 Dec 12 07:49	0°  49'53 0.52988 AU	
morning rise	2948 Sep 23 19:39	16°  07'19		2953 Dec 14 13:00	30°  08'00	
	2948 Oct 14 16:22	0°	opposition	2953 Dec 19 19:28	27°  49'22 2°42'27	
	2948 Dec 01 08:21	0°	greatest brilliancy	2953 Dec 19 00:29	28°  49'28 -2.0m	

direct	2954 Jan 23 23:45	20° $\Pi$ 12'53		minimum elong	2959 Mar 30 12:10	9° $\Upsilon$ 43'29	0°47'23
	2954 Mar 08 21:22	0° $\mathfrak{D}$			2959 Apr 25 13:47	0° $\mathfrak{B}$	
	2954 May 09 19:59	0° $\Omega$		max. Earth dist.	2959 May 19 12:09	18° $\mathfrak{B}$ 13'08	2.39659 AU
	2954 Jul 01 05:22	0° $\mathfrak{M}$			2959 Jun 04 07:31	0° $\Pi$	
	2954 Aug 19 12:49	0° $\mathfrak{L}$		morning rise	2959 Jun 07 19:30	2° $\Pi$ 34'41	
	2954 Oct 05 11:15	0° $\mathfrak{M}$		asc. node	2959 Jun 16 04:54	8° $\Pi$ 42'52	
evening set	2954 Oct 12 18:44	4° $\mathfrak{M}$ 48'44			2959 Jul 16 00:40	0° $\mathfrak{D}$	
max. Earth dist.	2954 Oct 31 07:57	17° $\mathfrak{M}$ 12'24	2.56347 AU		2959 Aug 29 05:20	0° $\Omega$	
desc. node	2954 Nov 08 15:10	22° $\mathfrak{M}$ 50'17			2959 Oct 15 13:37	0° $\mathfrak{M}$	
	2954 Nov 19 01:39	0° $\mathfrak{X}$			2959 Dec 07 09:13	0° $\mathfrak{L}$	
				retrograde	2960 Feb 27 18:28	27° $\mathfrak{L}$ 00'46	
conjunction	2954 Nov 29 12:58	7° $\mathfrak{X}$ 16'24	-0°12'10	opposition	2960 Apr 06 23:34	17° $\mathfrak{L}$ 56'21	2°55'40
minimum elong	2954 Nov 29 12:28	7° $\mathfrak{X}$ 15'31	0°12'10	greatest brilliancy	2960 Apr 07 09:20	17° $\mathfrak{L}$ 46'49	-1.4m
behind sun begin	2954 Nov 28 22:34	6° $\mathfrak{X}$ 51'16		min. Earth dist.	2960 Apr 10 18:25	16° $\mathfrak{L}$ 27'38	0.65464 AU
behind sun end	2954 Nov 30 02:21	7° $\mathfrak{X}$ 39'47		direct	2960 May 18 11:17	7° $\mathfrak{L}$ 53'53	
	2954 Dec 31 11:09	0° $\mathfrak{Z}$		desc. node	2960 Jun 30 11:09	17° $\mathfrak{L}$ 17'41	
morning rise	2955 Jan 19 09:31	13° $\mathfrak{Z}$ 51'37			2960 Jul 28 08:58	0° $\mathfrak{M}$	
	2955 Feb 10 00:14	0° $\approx$			2960 Sep 17 10:59	0° $\mathfrak{X}$	
	2955 Mar 21 06:03	0° $\mathfrak{H}$			2960 Oct 31 03:40	0° $\mathfrak{Z}$	
	2955 Apr 28 21:57	0° $\Upsilon$			2960 Dec 10 09:44	0° $\approx$	
	2955 Jun 06 20:59	0° $\mathfrak{B}$			2961 Jan 17 22:45	0° $\mathfrak{H}$	
	2955 Jul 17 05:39	0° $\Pi$			2961 Feb 25 00:53	0° $\Upsilon$	
	2955 Aug 29 14:59	0° $\mathfrak{D}$		evening set	2961 Apr 02 20:20	28° $\Upsilon$ 35'02	
asc. node	2955 Sep 11 07:42	8° $\mathfrak{D}$ 09'12			2961 Apr 04 16:45	0° $\mathfrak{B}$	
	2955 Oct 19 06:49	0° $\Omega$		asc. node	2961 May 03 04:34	21° $\mathfrak{B}$ 28'41	
retrograde	2955 Dec 20 19:13	19° $\Omega$ 09'25			2961 May 14 17:48	0° $\Pi$	
min. Earth dist.	2956 Jan 25 20:21	10° $\Omega$ 46'29	0.63444 AU				
opposition	2956 Jan 29 19:12	9° $\Omega$ 11'40	4°28'33	conjunction	2961 Jun 05 02:20	15° $\Pi$ 27'02	0°20'54
greatest brilliancy	2956 Jan 29 03:32	9° $\Omega$ 27'20	-1.5m	minimum elong	2961 Jun 05 00:59	15° $\Pi$ 24'37	0°20'53
direct	2956 Mar 08 10:28	0° $\Omega$ 06'15			2961 Jun 25 17:10	0° $\mathfrak{D}$	
	2956 Jun 05 12:56	0° $\mathfrak{M}$		max. Earth dist.	2961 Jul 12 08:26	11° $\mathfrak{D}$ 29'13	2.53087 AU
	2956 Jul 29 04:16	0° $\mathfrak{L}$		morning rise	2961 Jul 31 12:41	24° $\mathfrak{D}$ 27'38	
	2956 Sep 15 11:44	0° $\mathfrak{M}$			2961 Aug 08 20:07	0° $\Omega$	
desc. node	2956 Sep 25 13:51	6° $\mathfrak{M}$ 34'11			2961 Sep 24 02:57	0° $\mathfrak{M}$	
	2956 Oct 30 07:57	0° $\mathfrak{X}$			2961 Nov 11 17:34	0° $\mathfrak{L}$	
evening set	2956 Nov 24 13:31	17° $\mathfrak{X}$ 46'38			2962 Jan 03 04:24	0° $\mathfrak{M}$	
max. Earth dist.	2956 Dec 09 18:19	28° $\mathfrak{X}$ 47'23	2.43951 AU		2962 Mar 13 13:06	0° $\mathfrak{X}$	
	2956 Dec 11 09:58	0° $\mathfrak{Z}$		retrograde	2962 Apr 09 05:22	3° $\mathfrak{X}$ 48'37	
					2962 May 03 21:54	30° $\mathfrak{R}$ $\mathfrak{M}$	
conjunction	2957 Jan 18 20:44	28° $\mathfrak{Z}$ 49'42	-0°57'54	opposition	2962 May 16 01:41	25° $\mathfrak{M}$ 50'37	0°06'10
minimum elong	2957 Jan 18 18:55	28° $\mathfrak{Z}$ 46'15	0°57'53	greatest brilliancy	2962 May 16 02:31	25° $\mathfrak{M}$ 49'50	-1.8m
	2957 Jan 20 09:28	0° $\approx$		desc. node	2962 May 18 10:47	24° $\mathfrak{M}$ 57'30	
	2957 Feb 28 00:39	0° $\mathfrak{H}$		min. Earth dist.	2962 May 23 08:04	23° $\mathfrak{M}$ 08'53	0.56765 AU
morning rise	2957 Mar 24 09:01	19° $\mathfrak{H}$ 09'14		direct	2962 Jun 25 08:46	16° $\mathfrak{M}$ 16'34	
	2957 Apr 07 03:50	0° $\Upsilon$			2962 Aug 15 04:51	0° $\mathfrak{X}$	
	2957 May 15 16:03	0° $\mathfrak{B}$			2962 Oct 05 21:50	0° $\mathfrak{Z}$	
	2957 Jun 24 10:29	0° $\Pi$			2962 Nov 17 09:48	0° $\approx$	
asc. node	2957 Jul 29 06:33	25° $\Pi$ 03'37			2962 Dec 26 23:37	0° $\mathfrak{H}$	
	2957 Aug 05 08:50	0° $\mathfrak{D}$			2963 Feb 03 19:24	0° $\Upsilon$	
	2957 Sep 19 14:57	0° $\Omega$			2963 Mar 15 04:09	0° $\mathfrak{B}$	
	2957 Nov 10 07:01	0° $\mathfrak{M}$		asc. node	2963 Mar 21 02:59	4° $\mathfrak{B}$ 27'26	
retrograde	2958 Jan 23 10:34	23° $\mathfrak{M}$ 44'54			2963 Apr 24 22:27	0° $\Pi$	
opposition	2958 Mar 04 15:05	14° $\mathfrak{M}$ 01'50	4°20'11	evening set	2963 Jun 01 12:24	26° $\Pi$ 30'57	
greatest brilliancy	2958 Mar 04 14:22	14° $\mathfrak{M}$ 02'33	-1.3m		2963 Jun 06 13:42	0° $\mathfrak{D}$	
min. Earth dist.	2958 Mar 04 13:23	14° $\mathfrak{M}$ 03'31	0.67764 AU		2963 Jul 21 03:06	0° $\Omega$	
direct	2958 Apr 14 09:12	4° $\mathfrak{M}$ 14'13					
	2958 Jul 03 19:41	0° $\mathfrak{L}$		conjunction	2963 Jul 24 08:04	2° $\Omega$ 06'51	1°01'29
desc. node	2958 Aug 13 12:28	22° $\mathfrak{L}$ 40'24		minimum elong	2963 Jul 24 06:54	2° $\Omega$ 04'56	1°01'28
	2958 Aug 25 14:08	0° $\mathfrak{M}$		max. Earth dist.	2963 Aug 10 23:26	13° $\Omega$ 39'13	2.62914 AU
	2958 Oct 10 16:21	0° $\mathfrak{X}$			2963 Sep 05 07:40	0° $\mathfrak{M}$	
	2958 Nov 21 23:54	0° $\mathfrak{Z}$		morning rise	2963 Sep 10 12:54	3° $\mathfrak{M}$ 20'14	
	2958 Dec 31 19:42	0° $\approx$			2963 Oct 22 16:44	0° $\mathfrak{L}$	
evening set	2959 Jan 21 21:34	16° $\approx$ 22'59			2963 Dec 10 01:47	0° $\mathfrak{M}$	
	2959 Feb 08 04:56	0° $\mathfrak{H}$			2964 Jan 29 02:10	0° $\mathfrak{X}$	
	2959 Mar 18 03:31	0° $\Upsilon$			2964 Mar 23 23:28	0° $\mathfrak{Z}$	
				desc. node	2964 Apr 04 09:41	5° $\mathfrak{Z}$ 27'07	
conjunction	2959 Mar 30 08:48	9° $\Upsilon$ 36'53	-0°47'24	retrograde	2964 Jun 04 07:06	22° $\mathfrak{Z}$ 19'56	

opposition	2964 Jul 06 23:18	16° $\text{Z}$ 15'38 -4°36'28			2969 Oct 12 08:31	0° $\text{M}$	
greatest brilliancy	2964 Jul 08 05:45	15° $\text{Z}$ 51'32 -2.5m	max. Earth dist.		2969 Oct 20 05:30	5° $\text{M}$ 11'10	2.60170 AU
min. Earth dist.	2964 Jul 14 23:39	13° $\text{Z}$ 44'29 0.43769 AU					
direct	2964 Aug 11 08:51	8° $\text{Z}$ 56'03	conjunction		2969 Nov 13 03:01	21° $\text{M}$ 11'09	0°06'59
	2964 Oct 12 11:15	0° $\approx$	minimum elong		2969 Nov 13 03:16	21° $\text{M}$ 11'34	0°07'00
	2964 Nov 27 23:27	0° $\text{H}$	behind sun begin		2969 Nov 12 09:12	20° $\text{M}$ 40'58	
	2965 Jan 08 22:39	0° $\text{Y}$	behind sun end		2969 Nov 13 21:20	21° $\text{M}$ 42'11	
asc. node	2965 Feb 05 01:29	19° $\text{Y}$ 38'51	desc. node		2969 Nov 25 06:17	29° $\text{M}$ 27'55	
	2965 Feb 19 10:37	0° $\text{B}$			2969 Nov 26 00:58	0° $\text{X}$	
	2965 Apr 02 21:12	0° $\text{II}$	morning rise		2969 Dec 31 01:18	24° $\text{X}$ 31'24	
	2965 May 16 20:31	0° $\text{E}$			2970 Jan 07 16:48	0° $\text{Z}$	
	2965 Jul 01 08:56	0° $\text{O}$			2970 Feb 17 14:33	0° $\approx$	
evening set	2965 Jul 15 13:22	9° $\text{O}$ 10'47			2970 Mar 29 05:24	0° $\text{H}$	
	2965 Aug 17 00:38	0° $\text{M}$			2970 May 07 05:43	0° $\text{Y}$	
					2970 Jun 15 13:38	0° $\text{B}$	
conjunction	2965 Aug 31 19:50	9° $\text{M}$ 26'01 1°07'12			2970 Jul 26 12:30	0° $\text{II}$	
minimum elong	2965 Aug 31 20:16	9° $\text{M}$ 26'43 1°07'11			2970 Sep 09 12:57	0° $\text{E}$	
max. Earth dist.	2965 Sep 03 02:43	10° $\text{M}$ 53'20 2.67422 AU	asc. node		2970 Sep 27 23:12	10° $\text{E}$ 49'27	
	2965 Oct 03 03:41	0° $\text{E}$			2970 Nov 09 18:08	0° $\text{O}$	
morning rise	2965 Oct 15 12:45	7° $\text{E}$ 52'53	retrograde		2970 Dec 06 10:45	4° $\text{O}$ 22'24	
	2965 Nov 19 03:31	0° $\text{M}$			2970 Dec 31 10:18	30° $\text{R}$ $\text{E}$	
	2966 Jan 04 16:58	0° $\text{X}$	min. Earth dist.		2971 Jan 09 14:04	26° $\text{E}$ 38'28	0.60018 AU
	2966 Feb 19 21:36	0° $\text{Z}$	greatest brilliancy		2971 Jan 14 04:32	24° $\text{E}$ 49'08	-1.6m
desc. node	2966 Feb 20 08:30	0° $\text{Z}$ 17'44	opposition		2971 Jan 15 00:21	24° $\text{E}$ 29'29	4°05'30
	2966 Apr 07 04:39	0° $\approx$	direct		2971 Feb 21 10:50	15° $\text{E}$ 49'23	
	2966 May 25 01:45	0° $\text{H}$			2971 Apr 18 01:58	0° $\text{O}$	
	2966 Jul 23 02:02	0° $\text{Y}$			2971 Jun 16 18:23	0° $\text{M}$	
retrograde	2966 Aug 23 09:46	5° $\text{Y}$ 59'22			2971 Aug 07 02:39	0° $\text{E}$	
min. Earth dist.	2966 Sep 20 10:01	1° $\text{Y}$ 24'27 0.37404 AU			2971 Sep 23 17:34	0° $\text{M}$	
opposition	2966 Sep 23 01:54	0° $\text{Y}$ 41'23 -5°40'15	desc. node		2971 Oct 13 04:53	12° $\text{M}$ 50'37	
greatest brilliancy	2966 Sep 22 18:01	0° $\text{Y}$ 46'42 -2.9m	evening set		2971 Nov 07 08:06	29° $\text{M}$ 56'11	
	2966 Sep 25 15:32	30° $\text{R}$ $\text{H}$			2971 Nov 07 10:18	0° $\text{X}$	
direct	2966 Oct 22 11:30	25° $\text{H}$ 46'06	max. Earth dist.		2971 Nov 21 21:12	10° $\text{X}$ 05'53	2.49129 AU
	2966 Nov 17 16:57	0° $\text{Y}$			2971 Dec 19 14:28	0° $\text{Z}$	
asc. node	2966 Dec 24 01:19	15° $\text{Y}$ 34'57					
	2967 Jan 18 21:55	0° $\text{B}$	conjunction		2971 Dec 28 20:38	6° $\text{Z}$ 47'49 -0°42'30	
	2967 Mar 08 19:20	0° $\text{II}$	minimum elong		2971 Dec 28 18:52	6° $\text{Z}$ 44'34 0°42'30	
	2967 Apr 25 05:29	0° $\text{E}$			2972 Jan 28 18:36	0° $\approx$	
	2967 Jun 11 18:49	0° $\text{O}$	morning rise		2972 Feb 25 00:43	20° $\approx$ 58'49	
	2967 Jul 29 13:20	0° $\text{M}$			2972 Mar 07 14:38	0° $\text{H}$	
evening set	2967 Aug 22 19:38	15° $\text{M}$ 16'55			2972 Apr 14 21:35	0° $\text{Y}$	
	2967 Sep 15 00:46	0° $\text{E}$			2972 May 23 12:24	0° $\text{B}$	
max. Earth dist.	2967 Sep 26 02:49	7° $\text{E}$ 04'38 2.66470 AU			2972 Jul 02 09:28	0° $\text{II}$	
					2972 Aug 13 14:49	0° $\text{E}$	
conjunction	2967 Oct 07 03:44	14° $\text{E}$ 09'41 0°46'54	asc. node		2972 Aug 14 22:53	0° $\text{E}$ 54'46	
minimum elong	2967 Oct 07 04:49	14° $\text{E}$ 11'27 0°46'54			2972 Sep 28 22:05	0° $\text{O}$	
	2967 Oct 31 14:07	0° $\text{M}$			2972 Nov 25 01:58	0° $\text{M}$	
morning rise	2967 Nov 20 15:06	13° $\text{M}$ 10'37	retrograde		2973 Jan 10 04:10	10° $\text{M}$ 54'09	
	2967 Dec 15 19:21	0° $\text{X}$	min. Earth dist.		2973 Feb 17 19:54	1° $\text{M}$ 40'07	0.66862 AU
desc. node	2968 Jan 08 07:30	15° $\text{X}$ 59'48	opposition		2973 Feb 19 10:08	1° $\text{M}$ 01'49	4°33'16
	2968 Jan 28 13:13	0° $\text{Z}$	greatest brilliancy		2973 Feb 19 03:28	1° $\text{M}$ 08'30	-1.3m
	2968 Mar 10 22:30	0° $\approx$			2973 Feb 22 00:02	30° $\text{R}$ $\text{O}$	
	2968 Apr 21 06:37	0° $\text{H}$	direct		2973 Mar 31 11:49	21° $\text{O}$ 27'22	
	2968 Jun 01 06:25	0° $\text{Y}$			2973 May 12 07:23	0° $\text{M}$	
	2968 Jul 13 11:05	0° $\text{B}$			2973 Jul 14 11:01	0° $\text{E}$	
	2968 Aug 30 17:29	0° $\text{II}$	desc. node		2973 Aug 30 03:48	27° $\text{E}$ 42'23	
retrograde	2968 Oct 24 04:57	17° $\text{II}$ 00'28			2973 Sep 02 19:17	0° $\text{M}$	
asc. node	2968 Nov 10 00:50	14° $\text{II}$ 55'31			2973 Oct 18 06:01	0° $\text{X}$	
min. Earth dist.	2968 Nov 21 19:06	11° $\text{II}$ 21'26 0.47739 AU			2973 Nov 29 09:54	0° $\text{Z}$	
opposition	2968 Nov 30 01:21	8° $\text{II}$ 23'46 1°06'27	evening set		2973 Dec 27 20:25	21° $\text{Z}$ 16'10	
greatest brilliancy	2968 Nov 29 16:12	8° $\text{II}$ 31'59 -2.3m			2974 Jan 08 06:22	0° $\approx$	
direct	2969 Jan 02 10:53	1° $\text{II}$ 23'47	max. Earth dist.		2974 Feb 13 20:21	28° $\approx$ 31'34	2.37174 AU
	2969 Mar 26 23:08	0° $\text{E}$			2974 Feb 15 17:14	0° $\text{H}$	
	2969 May 19 17:20	0° $\text{O}$					
	2969 Jul 09 02:05	0° $\text{M}$	conjunction		2974 Mar 01 00:25	10° $\text{H}$ 29'54 -1°02'50	
	2969 Aug 26 15:23	0° $\text{E}$	minimum elong		2974 Mar 01 01:58	10° $\text{H}$ 32'57 1°02'50	
evening set	2969 Sep 27 18:06	20° $\text{E}$ 29'07			2974 Mar 25 16:51	0° $\text{Y}$	

	2974 May 03 03:00	0°♄			2979 May 26 04:00	30°♄♂	
morning rise	2974 May 11 04:34	6°♄11'39		opposition	2979 Jun 14 19:45	24°♂28'11	-2°34'40
	2974 Jun 11 19:39	0°♂		greatest brilliancy	2979 Jun 15 14:20	24°♂12'08	-2.2m
asc. node	2974 Jul 02 21:42	15°♂22'41		min. Earth dist.	2979 Jun 23 05:53	21°♂34'26	0.49024 AU
	2974 Jul 23 12:29	0°♄		direct	2979 Jul 22 17:57	15°♂57'37	
	2974 Sep 05 22:04	0°♂			2979 Sep 10 12:32	0°♄	
	2974 Oct 24 05:01	0°♄			2979 Oct 30 05:47	0°♄	
	2974 Dec 20 13:55	0°♄			2979 Dec 11 02:43	0°♄	
retrograde	2975 Feb 13 15:29	14°♄07'28			2980 Jan 20 05:01	0°♄	
opposition	2975 Mar 25 09:08	4°♄45'09	3°37'05	asc. node	2980 Feb 22 19:03	25°♄02'16	
greatest brilliancy	2975 Mar 25 16:04	4°♄38'19	-1.3m		2980 Feb 29 12:45	0°♄	
min. Earth dist.	2975 Mar 27 15:54	3°♄51'06	0.67169 AU		2980 Apr 11 02:19	0°♂	
	2975 Apr 06 21:36	30°♄♄			2980 May 24 09:28	0°♄	
direct	2975 May 05 18:18	24°♄44'48		evening set	2980 Jun 29 04:55	23°♄56'06	
	2975 Jun 06 06:15	0°♄			2980 Jul 08 10:27	0°♂	
desc. node	2975 Jul 18 03:06	17°♄32'35					
	2975 Aug 10 03:40	0°♄		conjunction	2980 Aug 17 03:46	25°♂43'26	1°08'29
	2975 Sep 27 09:07	0°♂		minimum elong	2980 Aug 17 03:38	25°♂43'15	1°08'28
	2975 Nov 09 07:43	0°♄			2980 Aug 23 19:57	0°♄	
	2975 Dec 19 07:39	0°♄		max. Earth dist.	2980 Aug 25 04:49	0°♄52'36	2.66299 AU
	2976 Jan 26 17:43	0°♄		morning rise	2980 Oct 01 19:30	24°♄49'35	
	2976 Mar 04 17:07	0°♄			2980 Oct 09 23:16	0°♄	
evening set	2976 Mar 05 21:40	0°♄56'11			2980 Nov 26 08:23	0°♄	
	2976 Apr 12 05:31	0°♄			2981 Jan 12 20:24	0°♂	
					2981 Mar 01 22:36	0°♄	
conjunction	2976 May 12 04:17	22°♄39'19	-0°05'05	desc. node	2981 Mar 08 23:28	4°♄18'50	
minimum elong	2976 May 12 04:41	22°♄40'04	0°05'05		2981 Apr 21 07:54	0°♄	
behind sun begin	2976 May 11 02:35	21°♄51'28			2981 Jun 24 09:57	0°♄	
behind sun end	2976 May 13 06:48	23°♄28'36		retrograde	2981 Jul 22 05:09	4°♄30'32	
asc. node	2976 May 19 19:31	28°♄18'52			2981 Aug 19 15:27	30°♄♄	
	2976 May 22 02:24	0°♂		opposition	2981 Aug 21 08:58	29°♄32'07	-6°47'06
max. Earth dist.	2976 Jun 26 23:21	25°♂50'06	2.48026 AU	greatest brilliancy	2981 Aug 22 03:04	29°♄19'54	-2.9m
	2976 Jul 02 21:48	0°♄		min. Earth dist.	2981 Aug 24 05:49	28°♄45'46	0.37811 AU
morning rise	2976 Jul 12 14:04	6°♄43'35		direct	2981 Sep 21 02:14	24°♄15'58	
	2976 Aug 15 23:17	0°♂			2981 Oct 21 06:00	0°♄	
	2976 Oct 01 11:32	0°♄			2981 Dec 17 22:34	0°♄	
	2976 Nov 20 02:04	0°♄		asc. node	2982 Jan 09 17:06	14°♄32'05	
	2977 Jan 15 12:19	0°♄			2982 Feb 02 03:54	0°♄	
retrograde	2977 Mar 22 21:45	18°♄52'55			2982 Mar 19 04:07	0°♂	
opposition	2977 Apr 29 21:11	10°♄24'28	1°23'54		2982 May 03 17:57	0°♄	
greatest brilliancy	2977 Apr 30 05:16	10°♄16'47	-1.6m		2982 Jun 19 06:52	0°♂	
min. Earth dist.	2977 May 05 21:02	8°♄07'25	0.60902 AU		2982 Aug 05 12:13	0°♄	
desc. node	2977 Jun 04 01:44	0°♄45'09		evening set	2982 Aug 08 08:27	1°♄48'03	
direct	2977 Jun 09 22:43	0°♄31'27		max. Earth dist.	2982 Sep 17 02:02	27°♄00'42	2.67484 AU
	2977 Aug 30 22:36	0°♂			2982 Sep 21 18:38	0°♄	
	2977 Oct 16 11:51	0°♄					
	2977 Nov 26 16:47	0°♄		conjunction	2982 Sep 23 02:17	0°♄50'27	0°57'24
	2978 Jan 04 16:36	0°♄		minimum elong	2982 Sep 23 03:17	0°♄52'02	0°57'23
	2978 Feb 12 02:30	0°♄		morning rise	2982 Nov 06 07:09	29°♄15'39	
	2978 Mar 23 02:10	0°♄			2982 Nov 07 10:28	0°♄	
asc. node	2978 Apr 06 19:29	11°♄04'58			2982 Dec 23 01:30	0°♂	
	2978 May 02 11:30	0°♂		desc. node	2983 Jan 24 22:30	22°♂06'13	
evening set	2978 May 11 11:41	6°♂30'42			2983 Feb 05 12:45	0°♄	
	2978 Jun 13 18:31	0°♄			2983 Mar 20 22:55	0°♄	
					2983 May 02 16:05	0°♄	
conjunction	2978 Jul 06 20:34	15°♄47'40	0°50'26		2983 Jun 14 16:17	0°♄	
minimum elong	2978 Jul 06 18:51	15°♄44'47	0°50'25		2983 Jul 31 07:57	0°♄	
	2978 Jul 28 02:03	0°♂		retrograde	2983 Oct 04 00:43	22°♄53'19	
max. Earth dist.	2978 Jul 31 12:51	2°♂16'57	2.59667 AU	min. Earth dist.	2983 Oct 30 21:32	18°♄02'34	0.42555 AU
morning rise	2978 Aug 26 13:45	19°♂17'52		opposition	2983 Nov 07 18:34	15°♄28'10	-1°14'15
	2978 Sep 12 05:19	0°♄		greatest brilliancy	2983 Nov 07 10:36	15°♄34'42	-2.6m
	2978 Oct 29 21:37	0°♄		asc. node	2983 Nov 27 16:27	10°♄17'27	
	2978 Dec 18 07:35	0°♄		direct	2983 Dec 09 03:56	9°♄23'42	
	2979 Feb 09 08:31	0°♂			2984 Feb 13 16:25	0°♂	
desc. node	2979 Apr 22 00:21	29°♂17'42			2984 Apr 08 04:38	0°♄	
	2979 Apr 25 17:50	0°♄			2984 May 28 11:44	0°♂	
retrograde	2979 May 11 07:46	1°♄23'40			2984 Jul 16 13:19	0°♄	

	2984 Sep 02 13:51	0°♄			2989 Jul 31 04:59	0°♄	
evening set	2984 Sep 13 05:59	6°♄46'48			2989 Sep 14 00:12	0°♄	
max. Earth dist.	2984 Oct 10 02:01	24°♄03'42	2.63243 AU		2989 Nov 02 22:42	0°♄	
	2984 Oct 19 04:10	0°♄			2990 Jan 15 03:38	0°♄	
				retrograde	2990 Jan 31 02:59	1°♄29'24	
conjunction	2984 Oct 28 20:07	6°♄21'49	0°24'22		2990 Feb 15 05:29	30°♄	
minimum elong	2984 Oct 28 20:53	6°♄23'06	0°24'21	opposition	2990 Mar 12 04:30	21°♄52'44	4°07'23
	2984 Dec 03 00:16	0°♄		greatest brilliancy	2990 Mar 12 06:49	21°♄50'25	-1.3m
desc. node	2984 Dec 11 21:39	6°♄06'02		min. Earth dist.	2990 Mar 12 22:54	21°♄34'25	0.67841 AU
morning rise	2984 Dec 13 20:33	7°♄26'56		direct	2990 Apr 22 05:00	11°♄59'29	
	2985 Jan 15 00:27	0°♄			2990 Jun 25 11:40	0°♄	
	2985 Feb 25 09:25	0°♄		desc. node	2990 Aug 03 17:57	20°♄32'36	
	2985 Apr 06 12:38	0°♄			2990 Aug 19 19:54	0°♄	
	2985 May 16 01:29	0°♄			2990 Oct 05 13:44	0°♄	
	2985 Jun 25 00:20	0°♄			2990 Nov 17 02:26	0°♄	
	2985 Aug 06 02:40	0°♄			2990 Dec 26 23:55	0°♄	
	2985 Sep 24 01:00	0°♄			2991 Feb 03 09:34	0°♄	
asc. node	2985 Oct 14 16:24	9°♄39'49		evening set	2991 Feb 06 05:55	2°♄14'58	
retrograde	2985 Nov 21 00:00	18°♄01'04			2991 Mar 13 08:10	0°♄	
min. Earth dist.	2985 Dec 23 00:49	11°♄02'07	0.55694 AU				
opposition	2985 Dec 29 19:59	8°♄24'01	3°20'58	conjunction	2991 Apr 15 18:27	26°♄08'16	-0°33'20
greatest brilliancy	2985 Dec 28 23:07	8°♄44'17	-1.9m	minimum elong	2991 Apr 15 21:19	26°♄13'47	0°33'19
direct	2986 Feb 03 20:42	0°♄16'11			2991 Apr 20 18:37	0°♄	
	2986 May 02 11:46	0°♄			2991 May 30 12:33	0°♄	
	2986 Jun 25 16:48	0°♄		max. Earth dist.	2991 Jun 06 10:15	5°♄04'41	2.42550 AU
	2986 Aug 14 15:12	0°♄		asc. node	2991 Jun 06 13:30	5°♄10'39	
	2986 Sep 30 19:21	0°♄		morning rise	2991 Jun 21 16:43	16°♄09'11	
evening set	2986 Oct 21 16:45	13°♄49'52			2991 Jul 11 05:03	0°♄	
desc. node	2986 Oct 29 20:53	19°♄20'25			2991 Aug 24 06:46	0°♄	
max. Earth dist.	2986 Nov 07 11:01	25°♄11'22	2.53932 AU		2991 Oct 10 04:33	0°♄	
	2986 Nov 14 10:56	0°♄			2991 Nov 30 10:04	0°♄	
				retrograde	2992 Feb 05 04:09	0°♄	
conjunction	2986 Dec 09 13:23	17°♄36'27	-0°23'29		2992 Mar 07 05:28	5°♄03'36	
minimum elong	2986 Dec 09 12:23	17°♄34'40	0°23'28		2992 Apr 04 16:14	30°♄	
	2986 Dec 26 18:44	0°♄		opposition	2992 Apr 15 01:16	26°♄10'38	2°25'44
morning rise	2987 Jan 31 14:49	26°♄32'44		greatest brilliancy	2992 Apr 15 11:24	26°♄00'48	-1.5m
	2987 Feb 05 04:35	0°♄		min. Earth dist.	2992 Apr 19 15:21	24°♄23'51	0.64110 AU
	2987 Mar 16 06:37	0°♄		direct	2992 May 26 11:15	16°♄09'17	
	2987 Apr 23 18:37	0°♄		desc. node	2992 Jun 20 16:59	19°♄45'27	
	2987 Jun 01 13:42	0°♄			2992 Jul 18 17:11	0°♄	
	2987 Jul 11 16:21	0°♄			2992 Sep 11 05:20	0°♄	
	2987 Aug 23 11:12	0°♄			2992 Oct 25 16:33	0°♄	
asc. node	2987 Sep 01 14:19	6°♄02'25			2992 Dec 05 05:22	0°♄	
	2987 Oct 10 19:06	0°♄			2993 Jan 12 21:32	0°♄	
retrograde	2987 Dec 28 17:15	27°♄35'02			2993 Feb 20 01:39	0°♄	
min. Earth dist.	2988 Feb 03 18:00	18°♄52'30	0.64952 AU		2993 Mar 30 19:26	0°♄	
opposition	2988 Feb 06 20:40	17°♄37'41	4°34'22	evening set	2993 Apr 17 14:31	13°♄27'43	
greatest brilliancy	2988 Feb 06 08:02	17°♄50'21	-1.4m	asc. node	2993 Apr 23 12:01	17°♄52'05	
direct	2988 Mar 17 01:17	8°♄20'41			2993 May 09 22:31	0°♄	
	2988 May 28 16:57	0°♄					
	2988 Jul 23 14:10	0°♄		conjunction	2993 Jun 17 07:10	27°♄26'01	0°33'25
	2988 Sep 10 12:56	0°♄		minimum elong	2993 Jun 17 05:24	27°♄22'55	0°33'23
desc. node	2988 Sep 15 19:27	3°♄23'41			2993 Jun 20 23:27	0°♄	
	2988 Oct 25 14:31	0°♄		max. Earth dist.	2993 Jul 19 20:10	19°♄46'33	2.55632 AU
evening set	2988 Dec 05 18:45	29°♄18'05			2993 Aug 04 02:53	0°♄	
	2988 Dec 06 17:37	0°♄		morning rise	2993 Aug 10 09:52	4°♄09'57	
max. Earth dist.	2988 Dec 24 09:42	13°♄06'03	2.41152 AU		2993 Sep 19 06:48	0°♄	
	2989 Jan 15 16:23	0°♄			2993 Nov 06 10:41	0°♄	
					2993 Dec 27 11:00	0°♄	
conjunction	2989 Feb 01 16:11	13°♄07'29	-1°03'15		2994 Feb 24 19:39	0°♄	
minimum elong	2989 Feb 01 15:05	13°♄05'20	1°03'14	retrograde	2994 Apr 20 01:05	13°♄29'03	
	2989 Feb 23 06:04	0°♄		desc. node	2994 May 08 15:38	11°♄17'30	
	2989 Apr 02 07:29	0°♄		opposition	2994 May 26 02:52	5°♄50'45	-0°47'07
morning rise	2989 Apr 10 13:31	6°♄29'15		greatest brilliancy	2994 May 26 08:17	5°♄45'49	-1.9m
	2989 May 10 18:07	0°♄		min. Earth dist.	2994 Jun 02 22:22	3°♄00'19	0.54177 AU
	2989 Jun 19 10:39	0°♄			2994 Jun 12 02:49	30°♄	
asc. node	2989 Jul 19 13:38	21°♄49'14		direct	2994 Jul 04 18:05	26°♄33'26	

	2994 Jul 28 07:30	0°♊		conjunction	2999 Oct 15 06:20	22°♊22'04	0°39'24
	2994 Sep 28 03:40	0°♋		minimum elong	2999 Oct 15 07:22	22°♊23'46	0°39'23
	2994 Nov 11 02:04	0°♌			2999 Oct 26 23:35	0°♌	
	2994 Dec 21 05:33	0°♍		morning rise	2999 Nov 29 02:35	21°♌56'12	
	2995 Jan 29 09:03	0°♎			2999 Dec 11 01:36	0°♊	
	2995 Mar 09 23:38	0°♏		desc. node	2999 Dec 29 13:26	12°♊37'39	
asc. node	2995 Mar 11 10:52	1°♏05'43			3000 Jan 23 13:02	0°♋	
	2995 Apr 19 22:55	0°♐			3000 Mar 06 12:46	0°♌	
	2995 Jun 01 18:10	0°♑			3000 Apr 16 08:51	0°♍	
evening set	2995 Jun 12 10:18	7°♑16'31			3000 May 26 16:30	0°♎	
	2995 Jul 16 10:32	0°♒			3000 Jul 06 17:44	0°♏	
					3000 Aug 20 09:19	0°♐	
conjunction	2995 Aug 02 15:57	11°♒16'49	1°05'27	asc. node	3000 Nov 01 07:36	29°♐19'55	
minimum elong	2995 Aug 02 15:10	11°♒15'33	1°05'26	retrograde	3000 Nov 04 23:02	29°♐25'38	
max. Earth dist.	2995 Aug 16 16:39	20°♒22'30	2.64354 AU	min. Earth dist.	3000 Dec 04 17:55	23°♐17'10	0.50679 AU
	2995 Aug 31 15:50	0°♓		opposition	3000 Dec 12 15:39	20°♐20'49	2°06'56
morning rise	2995 Sep 18 18:56	11°♓34'19		greatest brilliancy	3000 Dec 11 23:35	20°♐35'49	-2.1m
	2995 Oct 17 21:45	0°♑		direct	3001 Jan 16 01:27	12°♐53'42	
	2995 Dec 04 20:14	0°♒			3001 Mar 17 21:58	0°♑	
	2996 Jan 22 17:14	0°♓			3001 May 14 09:47	0°♒	
	2996 Mar 14 03:04	0°♋			3001 Jul 04 20:29	0°♓	
desc. node	2996 Mar 25 14:22	6°♋15'16			3001 Aug 22 20:14	0°♑	
	2996 May 16 16:00	0°♌		evening set	3001 Oct 07 06:02	29°♑02'16	
retrograde	2996 Jun 20 13:21	6°♌30'16			3001 Oct 08 17:19	0°♒	
opposition	2996 Jul 22 01:19	0°♌55'21	-5°42'14	max. Earth dist.	3001 Oct 27 13:27	12°♒28'06	2.58149 AU
greatest brilliancy	2996 Jul 23 09:50	0°♌31'13	-2.6m	desc. node	3001 Nov 16 11:47	25°♒56'41	
	2996 Jul 25 03:47	30°♌33'			3001 Nov 22 09:41	0°♓	
min. Earth dist.	2996 Jul 29 00:09	28°♌52'02	0.41160 AU				
direct	2996 Aug 24 19:06	24°♌23'03		conjunction	3001 Nov 23 07:11	0°♓37'01	-0°03'59
	2996 Sep 23 06:52	0°♍		minimum elong	3001 Nov 23 07:00	0°♓36'42	0°03'59
	2996 Nov 18 14:47	0°♎		behind sun begin	3001 Nov 22 11:14	0°♓02'41	
	2997 Jan 01 17:30	0°♏		behind sun end	3001 Nov 24 02:46	1°♓10'44	
asc. node	2997 Jan 26 10:21	17°♏24'45			3002 Jan 03 23:03	0°♋	
	2997 Feb 13 06:29	0°♏		morning rise	3002 Jan 11 16:34	5°♋36'04	
	2997 Mar 28 08:49	0°♐			3002 Feb 13 16:43	0°♌	
	2997 May 11 18:25	0°♑			3002 Mar 25 03:02	0°♍	
	2997 Jun 26 13:42	0°♒			3002 May 02 22:26	0°♎	
evening set	2997 Jul 24 09:36	17°♒53'13			3002 Jun 11 00:25	0°♏	
	2997 Aug 12 09:11	0°♓			3002 Jul 21 13:06	0°♐	
					3002 Sep 03 09:16	0°♑	
conjunction	2997 Sep 08 23:45	17°♓33'41	1°04'38	asc. node	3002 Sep 19 07:55	9°♑57'13	
minimum elong	2997 Sep 09 00:27	17°♓34'47	1°04'37		3002 Oct 26 10:24	0°♒	
max. Earth dist.	2997 Sep 08 07:08	17°♓07'17	2.67678 AU	retrograde	3002 Dec 15 18:58	13°♒27'07	
	2997 Sep 28 12:52	0°♑		min. Earth dist.	3003 Jan 19 23:58	5°♒20'56	0.62021 AU
morning rise	2997 Oct 23 09:14	15°♑51'54		opposition	3003 Jan 24 14:53	3°♒30'20	4°21'24
	2997 Nov 14 09:25	0°♒		greatest brilliancy	3003 Jan 23 21:01	3°♒48'10	-1.5m
	2997 Dec 30 13:40	0°♓			3003 Feb 02 19:18	30°♒58'	
desc. node	2998 Feb 10 14:29	27°♓43'24		direct	3003 Mar 03 17:30	24°♑35'37	
	2998 Feb 14 00:44	0°♋			3003 Apr 04 20:31	0°♒	
	2998 Mar 31 00:17	0°♌			3003 Jun 11 05:37	0°♓	
	2998 May 15 05:15	0°♍			3003 Aug 02 20:26	0°♑	
	2998 Jul 02 10:11	0°♎			3003 Sep 19 21:55	0°♒	
retrograde	2998 Sep 08 19:31	24°♏14'23		desc. node	3003 Oct 04 10:25	9°♒30'10	
min. Earth dist.	2998 Oct 05 14:47	19°♏47'00	0.38578 AU		3003 Nov 03 17:57	0°♓	
opposition	2998 Oct 10 20:17	18°♏16'32	-4°09'59	evening set	3003 Nov 18 10:45	10°♓15'48	
greatest brilliancy	2998 Oct 10 05:23	18°♏27'20	-2.9m	max. Earth dist.	3003 Dec 02 20:51	20°♓32'03	2.46285 AU
direct	2998 Nov 09 16:56	13°♏04'30			3003 Dec 15 22:06	0°♋	
asc. node	2998 Dec 14 08:32	20°♏04'01					
	2999 Jan 06 07:45	0°♏		conjunction	3004 Jan 10 21:50	19°♋17'51	-0°52'00
	2999 Mar 01 05:32	0°♐		minimum elong	3004 Jan 10 19:54	19°♋14'13	0°52'00
	2999 Apr 19 06:46	0°♑			3004 Jan 25 00:26	0°♌	
	2999 Jun 06 14:31	0°♒			3004 Mar 03 18:15	0°♍	
	2999 Jul 24 18:18	0°♓		morning rise	3004 Mar 12 12:37	6°♍52'19	
evening set	2999 Aug 30 23:19	23°♓22'52			3004 Apr 10 23:00	0°♎	
	2999 Sep 10 09:49	0°♑			3004 May 19 11:44	0°♏	
max. Earth dist.	2999 Oct 01 11:37	13°♑28'10	2.65563 AU		3004 Jun 28 06:12	0°♐	
				asc. node	3004 Aug 06 06:46	27°♐57'43	



	3004 Aug 09 05:24	0°☿			3009 Nov 21 23:23	0°♊
	3004 Sep 23 18:16	0°♈			3009 Dec 31 06:54	0°♉
	3004 Nov 15 22:10	0°♊			3010 Feb 07 21:44	0°♊
retrograde	3005 Jan 18 19:39	18°♊46'52			3010 Mar 19 01:25	0°♊
min. Earth dist.	3005 Feb 27 06:46	9°♊17'19	0.67484 AU	asc. node	3010 Mar 29 03:25	7°♊34'32
opposition	3005 Feb 28 00:55	8°♊59'09	4°27'00		3010 Apr 28 14:33	0°♊
greatest brilliancy	3005 Feb 27 21:36	9°♊02'29	-1.3m	evening set	3010 May 24 17:35	18°♊38'33
	3005 Mar 29 21:49	30°♊♈			3010 Jun 10 00:39	0°☿
direct	3005 Apr 09 11:55	29°♊17'03				
	3005 Apr 20 14:26	0°♊		conjunction	3010 Jul 18 00:29	25°☿44'59 0°57'29
	3005 Jul 08 17:50	0°♊		minimum elong	3010 Jul 17 23:03	25°☿42'35 0°57'29
desc. node	3005 Aug 21 09:13	25°♊01'16			3010 Jul 24 10:11	0°♈
	3005 Aug 29 10:59	0°♊		max. Earth dist.	3010 Aug 07 15:29	9°♊21'38 2.61561 AU
	3005 Oct 14 07:55	0°♊		morning rise	3010 Sep 05 05:39	27°♊52'57
	3005 Nov 25 15:12	0°♊			3010 Sep 08 12:56	0°♊
	3006 Jan 04 12:11	0°♊			3010 Oct 26 00:09	0°♊
evening set	3006 Jan 11 13:57	5°♊27'33			3010 Dec 13 18:20	0°♊
	3006 Feb 11 22:34	0°♊			3011 Feb 02 19:56	0°♊
					3011 Apr 02 21:29	0°♊
conjunction	3006 Mar 18 10:16	27°♊15'59 -0°55'50		desc. node	3011 Apr 13 06:16	4°♊08'32
minimum elong	3006 Mar 18 13:13	27°♊21'49 0°55'49		retrograde	3011 May 25 20:06	13°♊13'21
	3006 Mar 21 21:22	0°♊		opposition	3011 Jun 28 09:04	6°♊45'18 -3°43'06
max. Earth dist.	3006 Apr 24 12:14	26°♊18'39 2.37698 AU		greatest brilliancy	3011 Jun 29 11:11	6°♊23'43 -2.4m
	3006 Apr 29 06:50	0°♊		min. Earth dist.	3011 Jul 06 19:03	3°♊59'31 0.46083 AU
morning rise	3006 May 28 05:47	22°♊01'21			3011 Jul 22 05:30	30°♊♈
	3006 Jun 07 23:00	0°♊		direct	3011 Aug 04 00:06	28°♊51'03
asc. node	3006 Jun 24 04:49	11°♊53'49			3011 Aug 17 01:10	0°♊
	3006 Jul 19 14:22	0°☿			3011 Oct 22 03:47	0°♊
	3006 Sep 01 19:08	0°♈			3011 Dec 05 00:31	0°♊
	3006 Oct 19 09:30	0°♊			3012 Jan 14 23:55	0°♊
	3006 Dec 12 12:54	0°♊		asc. node	3012 Feb 14 01:27	22°♊07'17
retrograde	3007 Feb 22 16:27	21°♊56'26			3012 Feb 24 20:43	0°♊
opposition	3007 Apr 03 03:11	12°♊43'36 3°14'08			3012 Apr 06 20:04	0°♊
greatest brilliancy	3007 Apr 03 11:54	12°♊35'02 -1.3m			3012 May 20 10:31	0°☿
min. Earth dist.	3007 Apr 06 05:44	11°♊30'21 0.66349 AU			3012 Jul 04 16:45	0°♈
direct	3007 May 14 13:51	2°♊41'28		evening set	3012 Jul 09 16:56	3°♈15'47
desc. node	3007 Jul 09 07:48	17°♊16'23			3012 Aug 20 04:52	0°♊
	3007 Aug 03 22:50	0°♊				
	3007 Sep 22 17:33	0°♊		conjunction	3012 Aug 26 15:31	4°♊06'56 1°08'13
	3007 Nov 05 03:29	0°♊		minimum elong	3012 Aug 26 15:45	4°♊07'18 1°08'12
	3007 Dec 15 07:43	0°♊		max. Earth dist.	3012 Aug 31 11:36	7°♊12'02 2.67036 AU
	3008 Jan 22 19:53	0°♊			3012 Oct 06 07:42	0°♊
	3008 Feb 29 20:31	0°♊		morning rise	3012 Oct 10 16:47	2°♊46'57
evening set	3008 Mar 22 20:34	17°♊12'42			3012 Nov 22 11:25	0°♊
	3008 Apr 08 10:00	0°♊			3013 Jan 08 10:03	0°♊
asc. node	3008 May 11 04:36	24°♊43'39			3013 Feb 24 08:29	0°♊
	3008 May 18 08:03	0°♊		desc. node	3013 Feb 28 05:04	2°♊27'22
					3013 Apr 13 01:29	0°♊
conjunction	3008 May 27 02:14	6°♊24'21 0°10'22			3013 Jun 03 11:52	0°♊
minimum elong	3008 May 27 01:28	6°♊22'57 0°10'21		retrograde	3013 Aug 10 14:09	22°♊24'16
behind sun begin	3008 May 26 05:28	5°♊46'34		opposition	3013 Sep 09 16:40	17°♊24'09 -6°27'11
behind sun end	3008 May 27 21:28	6°♊59'19		greatest brilliancy	3013 Sep 09 19:48	17°♊22'06 -2.9m
	3008 Jun 29 04:05	0°☿		min. Earth dist.	3013 Sep 09 12:31	17°♊26'53 0.37169 AU
max. Earth dist.	3008 Jul 07 07:44	5°☿40'15 2.50882 AU		direct	3013 Oct 09 07:04	12°♊28'33
morning rise	3008 Jul 24 15:12	17°☿32'04			3013 Dec 05 16:56	0°♊
	3008 Aug 12 04:53	0°♈		asc. node	3014 Jan 01 01:05	14°♊41'49
	3008 Sep 27 12:13	0°♊			3014 Jan 26 00:06	0°♊
	3008 Nov 15 10:25	0°♊			3014 Mar 13 18:34	0°♊
	3009 Jan 08 03:24	0°♊			3014 Apr 29 05:45	0°☿
retrograde	3009 Apr 02 13:33	27°♊41'59			3014 Jun 15 06:49	0°♈
opposition	3009 May 09 22:14	19°♊29'33 0°40'52			3014 Aug 01 18:48	0°♊
greatest brilliancy	3009 May 10 02:51	19°♊25'13 -1.7m		evening set	3014 Aug 17 16:37	10°♊02'32
min. Earth dist.	3009 May 16 15:08	16°♊58'11 0.58710 AU			3014 Sep 18 04:04	0°♊
desc. node	3009 May 26 07:11	13°♊39'00		max. Earth dist.	3014 Sep 23 07:14	3°♊16'20 2.67034 AU
direct	3009 Jun 19 14:13	9°♊45'29				
	3009 Aug 23 01:38	0°♊		conjunction	3014 Oct 02 03:33	8°♊55'37 0°51'39
	3009 Oct 11 01:53	0°♊		minimum elong	3014 Oct 02 04:38	8°♊57'21 0°51'38

	3014 Nov 03 18:59	0°♌			3019 Dec 05 09:49	0°♏	
morning rise	3014 Nov 15 10:12	7°♌36'12		retrograde	3020 Jan 06 11:52	5°♏46'16	
	3014 Dec 19 04:58	0°♏			3020 Feb 05 01:08	30°♏♏	
desc. node	3015 Jan 16 04:19	18°♏56'05		min. Earth dist.	3020 Feb 13 10:12	26°♏45'56	0.66129 AU
	3015 Feb 01 06:51	0°♏		opposition	3020 Feb 15 17:02	25°♏50'56	4°35'25
	3015 Mar 16 02:43	0°♏		greatest brilliancy	3020 Feb 15 07:37	26°♏00'22	-1.4m
	3015 Apr 27 00:08	0°♏		direct	3020 Mar 26 09:46	16°♏23'48	
	3015 Jun 07 16:54	0°♏			3020 May 20 04:59	0°♏	
	3015 Jul 21 04:41	0°♏			3020 Jul 18 15:54	0°♏	
	3015 Sep 13 08:57	0°♏			3020 Sep 06 10:30	0°♏	
retrograde	3015 Oct 17 11:23	7°♏29'54		desc. node	3020 Sep 07 00:28	0°♏22'11	
min. Earth dist.	3015 Nov 14 03:32	2°♏13'56	0.45356 AU		3020 Oct 21 18:33	0°♏	
asc. node	3015 Nov 19 01:06	0°♏33'03			3020 Dec 02 23:27	0°♏	
	3015 Nov 20 15:01	30°♏♏		evening set	3020 Dec 18 22:11	11°♏38'50	
opposition	3015 Nov 22 10:43	29°♏22'02	0°11'57		3021 Jan 11 21:45	0°♏	
greatest brilliancy	3018 May 20 08:15	12°♏43'36	1.3m	max. Earth dist.	3021 Jan 15 02:59	2°♏28'25	2.38605 AU
direct	3015 Dec 24 23:36	22°♏46'00					
	3016 Jan 30 04:07	0°♏		conjunction	3021 Feb 17 16:56	28°♏38'30	-1°04'49
	3016 Apr 01 18:12	0°♏		minimum elong	3021 Feb 17 17:10	28°♏38'58	1°04'48
	3016 May 23 18:36	0°♏			3021 Feb 19 10:23	0°♏	
	3016 Jul 12 12:42	0°♏			3021 Mar 29 10:50	0°♏	
	3016 Aug 29 20:41	0°♏		morning rise	3021 Apr 29 00:03	23°♏55'14	
evening set	3016 Sep 22 12:12	15°♏02'43			3021 May 06 20:35	0°♏	
	3016 Oct 15 13:31	0°♏			3021 Jun 15 12:09	0°♏	
max. Earth dist.	3016 Oct 16 21:48	0°♏52'55	2.61652 AU	asc. node	3021 Jul 10 22:04	18°♏30'22	
					3021 Jul 27 04:00	0°♏	
conjunction	3016 Nov 07 10:58	15°♏10'04	0°14'31		3021 Sep 09 15:11	0°♏	
minimum elong	3016 Nov 07 11:28	15°♏10'54	0°14'31		3021 Oct 28 09:27	0°♏	
behind sun begin	3016 Nov 07 02:54	14°♏56'34			3021 Dec 28 00:36	0°♏	
behind sun end	3016 Nov 07 20:03	15°♏25'15		retrograde	3022 Feb 08 20:23	9°♏11'34	
	3016 Nov 29 08:32	0°♏			3022 Mar 19 23:53	30°♏♏	
desc. node	3016 Dec 03 03:01	2°♏35'12		opposition	3022 Mar 20 17:43	29°♏42'19	3°50'53
morning rise	3016 Dec 24 09:50	17°♏22'49		greatest brilliancy	3022 Mar 20 22:44	29°♏37'21	-1.3m
	3017 Jan 11 05:04	0°♏		min. Earth dist.	3022 Mar 22 07:55	29°♏04'26	0.67596 AU
	3017 Feb 21 08:18	0°♏		direct	3022 Apr 30 23:21	19°♏44'38	
	3017 Apr 02 04:50	0°♏			3022 Jun 15 23:06	0°♏	
	3017 May 11 10:16	0°♏		desc. node	3022 Jul 26 00:02	18°♏54'45	
	3017 Jun 19 23:11	0°♏			3022 Aug 14 16:55	0°♏	
	3017 Jul 31 06:26	0°♏			3022 Oct 01 07:28	0°♏	
	3017 Sep 15 08:26	0°♏			3022 Nov 13 03:02	0°♏	
asc. node	3017 Oct 05 23:41	11°♏21'36			3022 Dec 23 02:36	0°♏	
retrograde	3017 Nov 30 23:58	28°♏02'40			3023 Jan 30 12:47	0°♏	
min. Earth dist.	3018 Jan 03 05:17	20°♏37'55	0.58186 AU	evening set	3023 Feb 23 07:34	18°♏48'31	
greatest brilliancy	3018 Jan 08 09:38	18°♏35'40	-1.7m		3023 Mar 09 11:36	0°♏	
opposition	3018 Jan 09 06:35	18°♏15'01	3°50'04		3023 Apr 16 22:21	0°♏	
direct	3018 Feb 15 02:11	9°♏48'28					
	3018 Apr 24 21:36	0°♏		conjunction	3023 May 02 15:30	12°♏00'08	-0°17'18
	3018 Jun 20 20:24	0°♏		minimum elong	3023 May 02 17:02	12°♏03'02	0°17'17
	3018 Aug 10 14:03	0°♏			3023 May 26 16:51	0°♏	
	3018 Sep 27 01:26	0°♏		asc. node	3023 May 28 19:58	1°♏34'10	
desc. node	3018 Oct 21 01:24	15°♏52'41		max. Earth dist.	3023 Jun 20 19:45	18°♏15'35	2.45604 AU
evening set	3018 Nov 01 00:20	23°♏17'37		morning rise	3023 Jul 05 12:28	28°♏40'48	
	3018 Nov 10 18:56	0°♏			3023 Jul 07 09:36	0°♏	
max. Earth dist.	3018 Nov 16 10:25	3°♏54'40	2.51351 AU		3023 Aug 20 09:33	0°♏	
					3023 Oct 05 23:49	0°♏	
conjunction	3018 Dec 21 05:19	28°♏38'42	-0°34'39		3023 Nov 25 02:46	0°♏	
minimum elong	3018 Dec 21 03:51	28°♏36'01	0°34'37		3024 Jan 23 05:12	0°♏	
	3018 Dec 23 02:03	0°♏		retrograde	3024 Mar 17 00:33	13°♏18'31	
	3019 Feb 01 09:34	0°♏		opposition	3024 Apr 24 09:23	4°♏38'24	1°51'25
morning rise	3019 Feb 14 21:49	10°♏18'40		greatest brilliancy	3024 Apr 24 18:44	4°♏29'23	-1.5m
	3019 Mar 12 08:46	0°♏		min. Earth dist.	3024 Apr 29 17:55	2°♏34'43	0.62465 AU
	3019 Apr 19 17:55	0°♏			3024 May 06 18:59	30°♏♏	
	3019 May 28 09:49	0°♏		direct	3024 Jun 04 15:13	24°♏40'31	
	3019 Jul 07 07:52	0°♏		desc. node	3024 Jun 11 22:30	25°♏00'34	
	3019 Aug 18 16:14	0°♏			3024 Jul 05 13:00	0°♏	
asc. node	3019 Aug 23 22:45	3°♏34'00			3024 Sep 05 09:34	0°♏	
	3019 Oct 04 13:11	0°♏			3024 Oct 20 23:59	0°♏	

	3024 Nov 30 22:04	0°♊			3029 Dec 26 13:31	0°♊	
	3025 Jan 08 18:32	0°♋	desc. node		3030 Feb 01 19:22	24°♊50'28	
	3025 Feb 16 01:25	0°♌			3030 Feb 09 11:07	0°♋	
	3025 Mar 26 21:23	0°♍			3030 Mar 25 12:18	0°♌	
asc. node	3025 Apr 14 19:34	14°♍16'26			3030 May 08 03:28	0°♋	
evening set	3025 May 02 11:58	27°♍21'37			3030 Jun 21 16:56	0°♌	
	3025 May 06 02:38	0°♎			3030 Aug 12 13:48	0°♍	
	3025 Jun 17 05:31	0°♏	retrograde		3030 Sep 24 14:06	11°♍20'12	
			min. Earth dist.		3030 Oct 21 02:39	6°♍45'07	0.40534 AU
conjunction	3025 Jun 29 17:27	8°♏37'44	0°43'59	opposition	3030 Oct 28 03:46	4°♍34'21	-2°28'30
minimum elong	3025 Jun 29 15:37	8°♏34'35	0°43'58	greatest brilliancy	3030 Oct 27 14:23	4°♍44'43	-2.8m
max. Earth dist.	3025 Jul 27 20:20	27°♏37'53	2.57958 AU		3030 Nov 15 02:26	30°♎♌	
	3025 Jul 31 09:49	0°♏		direct	3030 Nov 27 17:26	28°♎♌55'18	
morning rise	3025 Aug 20 19:48	13°♏25'59		asc. node	3030 Dec 05 16:33	29°♎♌20'02	
	3025 Sep 15 12:03	0°♐			3030 Dec 10 17:58	0°♍	
	3025 Nov 02 08:00	0°♑			3031 Feb 21 09:24	0°♎	
	3025 Dec 22 07:18	0°♒			3031 Apr 13 22:51	0°♏	
	3026 Feb 15 06:46	0°♊			3031 Jun 02 06:24	0°♏	
desc. node	3026 Apr 29 20:57	23°♊44'30			3031 Jul 20 21:38	0°♐	
retrograde	3026 May 02 16:03	23°♊47'22			3031 Sep 06 18:24	0°♑	
opposition	3026 Jun 06 22:13	16°♊31'28	-1°46'25	evening set	3031 Sep 09 03:19	1°♑30'18	
greatest brilliancy	3026 Jun 07 10:52	16°♊20'15	-2.1m	max. Earth dist.	3031 Oct 07 23:18	19°♑58'34	2.64378 AU
min. Earth dist.	3026 Jun 15 03:48	13°♊36'49	0.51388 AU		3031 Oct 23 09:02	0°♒	
direct	3026 Jul 15 16:29	7°♊37'17					
	3026 Sep 19 16:18	0°♋	conjunction		3031 Oct 24 13:05	0°♒45'55	0°30'57
	3026 Nov 05 03:36	0°♌	minimum elong		3031 Oct 24 14:00	0°♒47'25	0°30'56
	3026 Dec 16 03:18	0°♍			3031 Dec 07 08:29	0°♊	
	3027 Jan 24 18:01	0°♎	morning rise		3031 Dec 08 22:56	1°♊05'28	
asc. node	3027 Mar 02 19:24	27°♎♌51'51	desc. node		3031 Dec 20 18:18	9°♊10'34	
	3027 Mar 05 16:27	0°♍			3032 Jan 19 14:20	0°♋	
	3027 Apr 15 21:59	0°♎			3032 Mar 01 06:14	0°♌	
	3027 May 28 22:13	0°♏			3032 Apr 10 16:50	0°♍	
evening set	3027 Jun 23 18:10	17°♏25'31			3032 May 20 13:17	0°♎	
	3027 Jul 12 18:00	0°♏			3032 Jun 29 21:02	0°♍	
					3032 Aug 11 17:41	0°♎	
conjunction	3027 Aug 12 15:33	20°♏06'43	1°07'45		3032 Oct 03 05:48	0°♏	
minimum elong	3027 Aug 12 15:10	20°♏06'05	1°07'45	asc. node	3032 Oct 22 16:48	7°♏14'20	
max. Earth dist.	3027 Aug 23 06:40	26°♏57'14	2.65532 AU	retrograde	3032 Nov 14 21:32	10°♏45'48	
	3027 Aug 28 00:38	0°♐		min. Earth dist.	3032 Dec 15 22:40	4°♏08'32	0.53514 AU
morning rise	3027 Sep 27 21:10	19°♐40'09		greatest brilliancy	3032 Dec 22 10:38	1°♏39'39	-2.0m
	3027 Oct 14 04:34	0°♑		opposition	3032 Dec 23 06:30	1°♏20'37	2°53'57
	3027 Nov 30 18:51	0°♒			3032 Dec 26 19:59	30°♒♐	
	3028 Jan 17 19:38	0°♊	direct		3033 Jan 27 13:52	23°♐29'55	
	3028 Mar 07 02:19	0°♋			3033 Mar 03 10:35	0°♏	
desc. node	3028 Mar 16 20:13	5°♋44'41			3033 May 07 13:21	0°♏	
	3028 Apr 29 19:18	0°♌			3033 Jun 29 10:54	0°♐	
retrograde	3028 Jul 09 00:06	22°♌06'44			3033 Aug 17 23:43	0°♑	
opposition	3028 Aug 08 13:45	16°♌56'30	-6°31'02		3033 Oct 04 01:42	0°♒	
greatest brilliancy	3028 Aug 09 17:23	16°♌37'08	-2.8m	evening set	3033 Oct 15 22:41	7°♒48'57	
min. Earth dist.	3028 Aug 13 13:44	15°♌32'39	0.39010 AU	max. Earth dist.	3033 Nov 03 06:15	20°♒05'01	2.55896 AU
direct	3028 Sep 09 13:55	11°♌10'14		desc. node	3033 Nov 06 17:22	22°♒26'00	
	3028 Nov 06 21:00	0°♋			3033 Nov 17 18:41	0°♊	
	3028 Dec 25 09:57	0°♎					
asc. node	3029 Jan 17 17:41	15°♎♌43'48		conjunction	3033 Dec 02 21:45	10°♊30'52	-0°15'11
	3029 Feb 07 14:29	0°♍		minimum elong	3033 Dec 02 21:07	10°♊29'47	0°15'10
	3029 Mar 23 14:21	0°♎		behind sun begin	3033 Dec 02 13:41	10°♊16'44	
	3029 May 07 13:29	0°♏		behind sun end	3033 Dec 03 04:34	10°♊42'49	
	3029 Jun 22 17:11	0°♏			3033 Dec 30 05:58	0°♋	
evening set	3029 Aug 03 00:49	26°♏23'06		morning rise	3034 Jan 23 04:01	17°♋32'11	
	3029 Aug 08 17:20	0°♐			3034 Feb 08 19:56	0°♌	
max. Earth dist.	3029 Sep 14 11:46	23°♐21'07	2.67672 AU		3034 Mar 20 01:51	0°♍	
					3034 Apr 27 17:01	0°♎	
conjunction	3029 Sep 18 02:25	25°♐38'54	1°00'49		3034 Jun 05 14:18	0°♍	
minimum elong	3029 Sep 18 03:19	25°♐40'20	1°00'48		3034 Jul 15 19:32	0°♎	
	3029 Sep 24 22:26	0°♑			3034 Aug 27 21:24	0°♏	
morning rise	3029 Nov 01 07:49	23°♑57'17		asc. node	3034 Sep 09 14:51	8°♑16'10	
	3029 Nov 10 16:27	0°♒			3034 Oct 16 11:59	0°♏	

retrograde	3034 Dec 23 20:29	22°♏08'02			3040 May 13 12:46	0°♐	
min. Earth dist.	3035 Jan 29 02:02	13°♏41'20	0.63768 AU				
opposition	3035 Feb 01 21:18	12°♏09'58	4°31'02	conjunction	3040 Jun 09 00:52	19°♐09'13	0°24'17
greatest brilliancy	3035 Feb 01 06:06	12°♏25'11	-1.5m	minimum elong	3040 Jun 08 23:22	19°♐06'32	0°24'16
direct	3035 Mar 12 14:47	3°♏02'27			3040 Jun 24 10:13	0°♑	
	3035 Jun 04 00:30	0°♐		max. Earth dist.	3040 Jul 15 11:26	14°♑31'40	2.53586 AU
	3035 Jul 28 09:41	0°♑		morning rise	3040 Aug 03 23:54	27°♑41'48	
	3035 Sep 15 00:17	0°♒			3040 Aug 07 10:52	0°♓	
desc. node	3035 Sep 24 16:12	6°♒15'44			3040 Sep 22 14:44	0°♐	
	3035 Oct 30 00:50	0°♑			3040 Nov 10 00:17	0°♑	
evening set	3035 Nov 29 02:26	21°♑11'30			3040 Dec 31 21:51	0°♒	
	3035 Dec 11 05:44	0°♓			3041 Mar 06 15:51	0°♑	
max. Earth dist.	3035 Dec 14 19:30	2°♓37'11	2.43425 AU	retrograde	3041 Apr 12 18:42	6°♑56'55	
	3036 Jan 20 06:57	0°♑		desc. node	3041 May 16 12:14	0°♑07'10	
					3041 May 16 20:09	30°♒♒	
conjunction	3036 Jan 23 20:57	2°♑44'46	-0°59'30	opposition	3041 May 19 11:12	29°♒02'13	-0°07'43
minimum elong	3036 Jan 23 19:16	2°♑41'33	0°59'29	greatest brilliancy	3040 Oct 09 16:47	10°♐45'55	1.7m
	3036 Feb 27 22:46	0°♑		min. Earth dist.	3041 May 26 19:19	26°♒19'18	0.56306 AU
morning rise	3036 Mar 29 02:45	23°♑44'34		direct	3041 Jun 28 14:46	19°♒30'56	
	3036 Apr 06 01:32	0°♑			3041 Aug 11 04:35	0°♑	
	3036 May 14 12:19	0°♒			3041 Oct 04 00:45	0°♓	
	3036 Jun 23 04:20	0°♐			3041 Nov 15 23:24	0°♑	
asc. node	3036 Jul 27 13:20	24°♐49'27			3041 Dec 25 17:10	0°♑	
	3036 Aug 03 22:54	0°♑			3042 Feb 02 14:12	0°♑	
	3036 Sep 17 22:12	0°♓			3042 Mar 13 22:43	0°♒	
	3036 Nov 07 18:48	0°♐		asc. node	3042 Mar 19 10:58	4°♒07'53	
retrograde	3037 Jan 26 11:10	26°♐34'48			3042 Apr 23 15:57	0°♐	
opposition	3037 Mar 07 14:35	16°♐52'38	4°16'48	evening set	3042 Jun 05 04:43	29°♐58'11	
greatest brilliancy	3037 Mar 07 14:27	16°♐52'46	-1.3m		3042 Jun 05 05:46	0°♑	
min. Earth dist.	3037 Mar 07 16:18	16°♐50'55	0.67815 AU		3042 Jul 19 17:43	0°♓	
direct	3037 Apr 17 09:33	7°♐03'57					
	3037 Jul 01 04:35	0°♑		conjunction	3042 Jul 27 16:42	5°♓14'33	1°02'44
desc. node	3037 Aug 11 14:46	22°♑38'36		minimum elong	3042 Jul 27 15:37	5°♓12'46	1°02'44
	3037 Aug 23 20:46	0°♒		max. Earth dist.	3042 Aug 13 12:53	16°♓14'24	2.63207 AU
	3037 Oct 09 06:49	0°♑			3042 Sep 03 20:53	0°♐	
	3037 Nov 20 18:37	0°♓		morning rise	3042 Sep 13 15:54	6°♐15'49	
	3037 Dec 30 16:51	0°♑			3042 Oct 21 04:14	0°♑	
evening set	3038 Jan 26 05:41	20°♑38'02			3042 Dec 08 09:55	0°♒	
	3038 Feb 07 03:15	0°♑			3043 Jan 27 02:01	0°♑	
	3038 Mar 17 01:54	0°♑			3043 Mar 21 19:15	0°♓	
				desc. node	3043 Apr 03 10:53	6°♓18'34	
conjunction	3038 Apr 04 00:49	14°♑07'08	-0°44'20	retrograde	3043 Jun 09 20:40	26°♓16'32	
minimum elong	3038 Apr 04 04:11	14°♑13'42	0°44'18	opposition	3043 Jul 12 06:44	20°♓18'00	-4°52'38
	3038 Apr 24 11:12	0°♒		greatest brilliancy	3043 Jul 13 14:23	19°♓53'17	-2.5m
max. Earth dist.	3038 May 24 19:06	23°♒03'17	2.40172 AU	min. Earth dist.	3043 Jul 20 04:16	17°♓50'48	0.43261 AU
	3038 Jun 03 03:04	0°♐		direct	3043 Aug 16 10:06	13°♓07'10	
morning rise	3038 Jun 12 02:29	6°♐36'22			3043 Oct 09 20:34	0°♑	
asc. node	3038 Jun 14 13:30	8°♐24'10			3043 Nov 26 22:37	0°♑	
	3038 Jul 14 17:30	0°♑			3044 Jan 08 07:41	0°♑	
	3038 Aug 27 18:24	0°♓		asc. node	3044 Feb 04 10:19	19°♑33'25	
	3038 Oct 13 20:26	0°♐			3044 Feb 18 23:22	0°♒	
	3038 Dec 04 23:14	0°♑			3044 Apr 01 11:07	0°♐	
retrograde	3039 Mar 02 21:57	29°♑52'13			3044 May 15 10:26	0°♑	
opposition	3039 Apr 11 00:42	20°♑49'45	2°47'16		3044 Jun 29 22:31	0°♓	
greatest brilliancy	3039 Apr 11 10:27	20°♑40'13	-1.4m	evening set	3044 Jul 18 19:00	12°♓11'32	
min. Earth dist.	3039 Apr 14 22:31	19°♑18'04	0.65240 AU		3044 Aug 15 14:00	0°♐	
direct	3039 May 22 11:34	10°♑47'14					
desc. node	3039 Jun 29 13:31	18°♑21'37		conjunction	3044 Sep 03 22:09	12°♐19'21	1°06'34
	3039 Jul 26 13:49	0°♒		minimum elong	3044 Sep 03 22:41	12°♐20'12	1°06'34
	3039 Sep 16 18:29	0°♑		max. Earth dist.	3044 Sep 05 17:19	13°♐28'01	2.67497 AU
	3039 Oct 30 19:23	0°♓			3044 Oct 01 17:03	0°♑	
	3039 Dec 10 05:09	0°♑		morning rise	3044 Oct 18 13:10	10°♑43'34	
	3040 Jan 17 19:43	0°♑			3044 Nov 17 16:35	0°♒	
	3040 Feb 24 22:04	0°♑			3045 Jan 03 04:39	0°♑	
	3040 Apr 03 13:09	0°♒		desc. node	3045 Feb 18 10:57	0°♓08'27	
evening set	3040 Apr 07 06:10	2°♒50'05			3045 Feb 18 05:46	0°♓	
asc. node	3040 May 01 12:34	21°♒07'27			3045 Apr 05 05:17	0°♑	

	3045 May 22 07:52	0°♄		3050 Aug 05 10:25	0°♄
	3045 Jul 15 18:46	0°♂		3050 Sep 22 06:46	0°♄
retrograde	3045 Aug 28 05:26	10°♂55'32	desc. node	3050 Oct 11 06:54	12°♄29'12
min. Earth dist.	3045 Sep 24 23:03	6°♂22'59 0.37558 AU		3050 Nov 06 03:04	0°♄
opposition	3045 Sep 28 03:23	5°♂30'47 -5°21'16	evening set	3050 Nov 10 17:19	3°♄10'48
greatest brilliancy	3045 Sep 27 17:41	5°♂37'26 -2.9m	max. Earth dist.	3050 Nov 25 07:35	13°♄24'39 2.48598 AU
direct	3045 Oct 27 15:58	0°♂33'18		3050 Dec 18 09:39	0°♄
asc. node	3045 Dec 22 08:59	16°♂51'13			
	3046 Jan 16 00:13	0°♄	conjunction	3051 Jan 01 14:04	10°♄25'36 -0°45'04
	3046 Mar 06 19:31	0°♄	minimum elong	3051 Jan 01 12:15	10°♄22'13 0°45'02
	3046 Apr 23 12:46	0°♄		3051 Jan 27 15:13	0°♄
	3046 Jun 10 05:02	0°♄	morning rise	3051 Mar 01 09:37	25°♄15'04
	3046 Jul 28 01:10	0°♄		3051 Mar 07 11:47	0°♄
evening set	3046 Aug 25 21:11	18°♄08'58		3051 Apr 14 18:26	0°♄
	3046 Sep 13 14:01	0°♄		3051 May 23 08:00	0°♄
max. Earth dist.	3046 Sep 28 13:50	9°♄34'08 2.66328 AU		3051 Jul 02 02:39	0°♄
				3051 Aug 13 03:32	0°♄
conjunction	3046 Oct 10 04:33	17°♄01'41 0°44'52	asc. node	3051 Aug 14 07:00	0°♄47'11
minimum elong	3046 Oct 10 05:38	17°♄03'26 0°44'51		3051 Sep 28 00:56	0°♄
	3046 Oct 30 04:43	0°♄		3051 Nov 22 08:14	0°♄
morning rise	3046 Nov 23 16:57	16°♄07'26	retrograde	3052 Jan 14 04:06	13°♄46'07
	3046 Dec 14 10:59	0°♄	min. Earth dist.	3052 Feb 21 22:48	4°♄29'27 0.67002 AU
desc. node	3047 Jan 06 10:11	15°♄37'02	opposition	3052 Feb 23 09:46	3°♄54'24 4°31'59
	3047 Jan 27 05:13	0°♄	greatest brilliancy	3052 Feb 23 03:42	4°♄00'29 -1.3m
	3047 Mar 10 13:55	0°♄		3052 Mar 04 13:04	30°♄00
	3047 Apr 20 20:15	0°♄	direct	3052 Apr 03 13:18	24°♄18'39
	3047 May 31 16:10	0°♄		3052 May 06 20:34	0°♄
	3047 Jul 12 11:35	0°♄		3052 Jul 12 07:21	0°♄
	3047 Aug 28 07:34	0°♄	desc. node	3052 Aug 28 06:03	27°♄32'13
retrograde	3047 Oct 28 22:21	20°♄51'38		3052 Sep 01 04:43	0°♄
asc. node	3047 Nov 09 07:41	19°♄53'21		3052 Oct 16 21:37	0°♄
min. Earth dist.	3047 Nov 26 17:29	15°♄06'31 0.48305 AU		3052 Nov 28 05:10	0°♄
opposition	3047 Dec 04 22:10	12°♄08'38 1°23'48	evening set	3052 Dec 31 21:05	25°♄11'43
greatest brilliancy	3047 Dec 04 10:50	12°♄18'57 -2.3m		3053 Jan 07 03:41	0°♄
direct	3048 Jan 07 12:32	5°♄03'01		3053 Feb 14 15:21	0°♄
	3048 Mar 24 02:09	0°♄	max. Earth dist.	3053 Feb 27 18:17	10°♄21'28 2.36989 AU
	3048 May 17 17:58	0°♄			
	3048 Jul 07 09:50	0°♄	conjunction	3053 Mar 05 14:14	14°♄58'06 -1°01'38
	3048 Aug 25 03:00	0°♄	minimum elong	3053 Mar 05 16:09	15°♄01'51 1°01'37
evening set	3048 Sep 30 20:45	23°♄25'29		3053 Mar 24 14:42	0°♄
	3048 Oct 10 22:58	0°♄		3053 May 01 23:40	0°♄
max. Earth dist.	3048 Oct 22 23:26	7°♄54'54 2.59819 AU	morning rise	3053 May 15 20:33	10°♄38'37
				3053 Jun 10 14:20	0°♄
conjunction	3048 Nov 16 08:08	24°♄15'59 0°04'04	asc. node	3053 Jul 01 05:08	15°♄04'48
minimum elong	3048 Nov 16 08:16	24°♄16'12 0°04'04		3053 Jul 22 04:20	0°♄
behind sun begin	3048 Nov 15 12:54	23°♄43'20		3053 Sep 04 09:33	0°♄
behind sun end	3048 Nov 17 03:38	24°♄49'06		3053 Oct 22 07:47	0°♄
desc. node	3048 Nov 23 08:25	29°♄03'05		3053 Dec 17 05:54	0°♄
	3048 Nov 24 17:38	0°♄	retrograde	3054 Feb 16 17:51	16°♄57'52
morning rise	3049 Jan 03 12:02	27°♄52'37	opposition	3054 Mar 28 09:26	7°♄37'11 3°30'38
	3049 Jan 06 11:07	0°♄	greatest brilliancy	3054 Mar 28 16:39	7°♄30'04 -1.3m
	3049 Feb 16 09:50	0°♄	min. Earth dist.	3054 Mar 30 19:17	6°♄40'03 0.67030 AU
	3049 Mar 28 00:55	0°♄		3054 Apr 19 12:30	30°♄00
	3049 May 06 00:33	0°♄	direct	3054 May 08 18:14	27°♄36'37
	3049 Jun 14 06:16	0°♄		3054 May 29 10:01	0°♄
	3049 Jul 25 00:10	0°♄	desc. node	3054 Jul 16 04:42	17°♄58'28
	3049 Sep 07 11:39	0°♄		3054 Aug 07 23:28	0°♄
asc. node	3049 Sep 26 07:52	11°♄19'34		3054 Sep 25 19:42	0°♄
	3049 Nov 03 17:26	0°♄		3054 Nov 08 00:36	0°♄
retrograde	3049 Dec 09 14:10	7°♄30'09		3054 Dec 18 03:52	0°♄
	3050 Jan 12 04:00	30°♄00		3055 Jan 25 15:29	0°♄
min. Earth dist.	3050 Jan 12 22:21	29°♄42'01 0.60413 AU		3055 Mar 04 15:06	0°♄
greatest brilliancy	3050 Jan 17 09:29	27°♄55'41 -1.6m	evening set	3055 Mar 11 10:58	5°♄22'17
opposition	3050 Jan 18 05:14	27°♄36'03 4°11'05		3055 Apr 12 02:38	0°♄
direct	3050 Feb 24 18:30	18°♄53'19			
	3050 Apr 14 00:07	0°♄	conjunction	3055 May 17 09:48	26°♄40'20 -0°01'13
	3050 Jun 14 15:24	0°♄	minimum elong	3055 May 17 09:52	26°♄40'26 0°01'12

behind sun begin	3055 May 16 07:02	25°♄50'41			3060 Jun 16 09:42	0°♄
behind sun end	3055 May 18 12:42	27°♄30'08		retrograde	3060 Jul 27 04:43	9°♄06'27
asc. node	3055 May 19 04:51	28°♄00'02		opposition	3060 Aug 26 06:53	4°♄09'26 -6°46'25
	3055 May 21 21:48	0°♄		greatest brilliancy	3060 Aug 26 22:24	3°♄59'05 -2.9m
max. Earth dist.	3055 Jul 01 14:17	29°♄16'49	2.48563 AU	min. Earth dist.	3060 Aug 28 14:55	3°♄32'07 0.37609 AU
	3055 Jul 02 14:55	0°♄			3060 Sep 13 07:57	30°♄
morning rise	3055 Jul 17 06:11	10°♄10'07		direct	3060 Sep 25 16:06	28°♄58'54
	3055 Aug 15 13:38	0°♄			3060 Oct 08 00:26	0°♄
	3055 Sep 30 22:09	0°♄			3060 Dec 15 03:45	0°♄
	3055 Nov 19 05:17	0°♄		asc. node	3061 Jan 08 01:11	14°♄54'48
	3056 Jan 13 12:59	0°♄			3061 Jan 31 05:02	0°♄
retrograde	3056 Mar 26 06:35	21°♄52'11			3061 Mar 17 11:55	0°♄
opposition	3056 May 03 02:21	13°♄26'33	1°12'20		3061 May 02 04:24	0°♄
greatest brilliancy	3056 May 03 09:33	13°♄19'42	-1.6m		3061 Jun 17 18:30	0°♄
min. Earth dist.	3056 May 09 04:48	11°♄07'11	0.60494 AU		3061 Aug 04 00:44	0°♄
desc. node	3056 Jun 02 03:30	4°♄22'51		evening set	3061 Aug 11 11:47	4°♄43'21
direct	3056 Jun 13 01:17	3°♄35'04		max. Earth dist.	3061 Sep 19 15:35	29°♄33'45 2.67429 AU
	3056 Aug 28 13:20	0°♄			3061 Sep 20 08:04	0°♄
	3056 Oct 14 21:17	0°♄				
	3056 Nov 25 08:41	0°♄		conjunction	3061 Sep 26 03:44	3°♄42'32 0°55'51
	3057 Jan 03 11:17	0°♄		minimum elong	3061 Sep 26 04:46	3°♄44'11 0°55'51
	3057 Feb 10 22:10	0°♄			3061 Nov 06 00:41	0°♄
	3057 Mar 21 21:40	0°♄		morning rise	3061 Nov 09 08:05	2°♄09'00
asc. node	3057 Apr 05 04:00	10°♄44'59			3061 Dec 21 15:59	0°♄
	3057 May 01 06:00	0°♄		desc. node	3062 Jan 23 00:59	21°♄46'30
evening set	3057 May 15 10:21	10°♄14'02			3062 Feb 04 02:33	0°♄
	3057 Jun 12 11:33	0°♄			3062 Mar 19 10:49	0°♄
					3062 May 01 00:14	0°♄
conjunction	3057 Jul 10 08:52	19°♄03'52	0°52'29		3062 Jun 12 16:19	0°♄
minimum elong	3057 Jul 10 07:12	19°♄01'04	0°52'28		3062 Jul 28 05:56	0°♄
	3057 Jul 26 17:19	0°♄		retrograde	3062 Oct 08 00:59	27°♄04'46
max. Earth dist.	3057 Aug 03 05:57	4°♄58'45	2.60043 AU	min. Earth dist.	3062 Nov 03 23:14	22°♄09'50 0.43065 AU
morning rise	3057 Aug 29 18:07	22°♄16'15		opposition	3062 Nov 11 23:33	19°♄31'18 -0°52'04
	3057 Sep 10 18:40	0°♄		greatest brilliancy	3062 Nov 11 17:51	19°♄36'01 -2.6m
	3057 Oct 28 08:22	0°♄		asc. node	3062 Nov 26 01:24	15°♄24'30
	3057 Dec 16 12:57	0°♄		direct	3062 Dec 13 15:16	13°♄20'43
	3058 Feb 06 22:03	0°♄			3063 Feb 10 01:08	0°♄
	3058 Apr 15 01:25	0°♄			3063 Apr 07 01:31	0°♄
desc. node	3058 Apr 20 02:55	1°♄23'43			3063 May 27 17:34	0°♄
retrograde	3058 May 15 05:45	4°♄51'41			3063 Jul 15 23:08	0°♄
	3058 Jun 12 15:09	30°♄			3063 Sep 02 02:23	0°♄
opposition	3058 Jun 18 14:40	28°♄01'06	-2°51'11	evening set	3063 Sep 17 08:06	9°♄40'36
greatest brilliancy	3058 Jun 19 11:11	27°♄43'33	-2.2m	max. Earth dist.	3063 Oct 13 15:00	26°♄37'33 2.62980 AU
min. Earth dist.	3058 Jun 27 02:31	25°♄07'36	0.48462 AU		3063 Oct 18 18:59	0°♄
direct	3058 Jul 26 07:06	19°♄36'59				
	3058 Sep 06 05:06	0°♄		conjunction	3063 Nov 01 23:29	9°♄20'31 0°21'40
	3058 Oct 28 04:55	0°♄		minimum elong	3063 Nov 02 00:12	9°♄21'41 0°21'40
	3058 Dec 09 12:42	0°♄			3063 Dec 02 16:58	0°♄
	3059 Jan 18 18:53	0°♄		desc. node	3063 Dec 10 23:40	5°♄40'18
asc. node	3059 Feb 21 01:44	24°♄46'47		morning rise	3063 Dec 18 03:15	10°♄36'23
	3059 Feb 28 03:56	0°♄			3064 Jan 14 18:20	0°♄
	3059 Apr 10 17:34	0°♄			3064 Feb 25 03:43	0°♄
	3059 May 24 00:14	0°♄			3064 Apr 05 06:29	0°♄
evening set	3059 Jul 03 14:17	27°♄05'37			3064 May 14 17:52	0°♄
	3059 Jul 08 00:34	0°♄			3064 Jun 23 13:23	0°♄
					3064 Aug 04 07:48	0°♄
conjunction	3059 Aug 21 07:40	28°♄40'11	1°08'31		3064 Sep 21 01:21	0°♄
minimum elong	3059 Aug 21 07:39	28°♄40'09	1°08'32	asc. node	3064 Oct 13 00:09	10°♄55'20
	3059 Aug 23 09:31	0°♄		retrograde	3064 Nov 24 06:22	21°♄19'21
max. Earth dist.	3059 Aug 28 15:34	3°♄21'38	2.66478 AU	min. Earth dist.	3064 Dec 26 13:06	14°♄15'01 0.56188 AU
morning rise	3059 Oct 05 19:45	27°♄39'34		greatest brilliancy	3065 Jan 01 07:26	12°♄00'24 -1.8m
	3059 Oct 09 12:18	0°♄		opposition	3065 Jan 02 04:46	11°♄39'35 3°30'08
	3059 Nov 25 20:18	0°♄		direct	3065 Feb 07 08:29	3°♄28'07
	3060 Jan 12 05:33	0°♄			3065 Apr 29 20:22	0°♄
	3060 Feb 29 01:03	0°♄			3065 Jun 23 19:43	0°♄
desc. node	3060 Mar 07 01:56	4°♄21'14			3065 Aug 13 00:50	0°♄
	3060 Apr 18 16:10	0°♄			3065 Sep 29 09:02	0°♄

evening set	3065 Oct 24 23:13	16° $\mathbb{M}$ 56'32		max. Earth dist.	3070 Jun 10 22:02	9° $\mathbb{I}$ 16'07	2.43146 AU
desc. node	3065 Oct 27 22:02	18° $\mathbb{M}$ 55'51		morning rise	3070 Jun 25 19:46	20° $\mathbb{I}$ 01'42	
max. Earth dist.	3065 Nov 10 14:37	28° $\mathbb{M}$ 15'05	2.53468 AU		3070 Jul 09 21:22	0° $\mathfrak{G}$	
	3065 Nov 13 03:38	0° $\mathfrak{A}$			3070 Aug 22 20:02	0° $\Omega$	
					3070 Oct 08 12:56	0° $\mathbb{M}$	
conjunction	3065 Dec 13 01:14	20° $\mathfrak{A}$ 59'04	-0°26'28		3070 Nov 28 06:38	0° $\Omega$	
minimum elong	3065 Dec 13 00:07	20° $\mathfrak{A}$ 57'05	0°26'27		3071 Jan 30 11:12	0° $\mathbb{M}$	
	3065 Dec 25 13:41	0° $\mathfrak{Z}$		retrograde	3071 Mar 11 10:04	7° $\mathbb{M}$ 56'44	
morning rise	3066 Feb 04 13:30	0° $\approx$ 23'38			3071 Apr 16 19:05	30° $\mathfrak{R}$ $\Omega$	
	3066 Feb 04 01:00	0° $\approx$		opposition	3071 Apr 19 03:14	29° $\Omega$ 05'54	2°16'13
	3066 Mar 15 03:36	0° $\mathfrak{H}$		greatest brilliancy	3071 Apr 19 13:03	28° $\Omega$ 56'22	-1.5m
	3066 Apr 22 15:14	0° $\mathfrak{Y}$		min. Earth dist.	3071 Apr 23 19:56	27° $\Omega$ 16'35	0.63835 AU
	3066 May 31 08:48	0° $\mathfrak{B}$		direct	3071 May 30 11:57	19° $\Omega$ 05'06	
	3066 Jul 10 08:21	0° $\mathbb{I}$		desc. node	3071 Jun 19 19:04	21° $\Omega$ 28'13	
	3066 Aug 21 21:05	0° $\mathfrak{G}$			3071 Jul 15 21:43	0° $\mathbb{M}$	
asc. node	3066 Aug 30 22:43	6° $\mathfrak{G}$ 03'16			3071 Sep 10 08:57	0° $\mathfrak{A}$	
	3066 Oct 08 12:23	0° $\Omega$			3071 Oct 25 06:52	0° $\mathfrak{Z}$	
	3066 Dec 22 19:08	0° $\mathbb{M}$			3071 Dec 05 00:11	0° $\approx$	
retrograde	3066 Dec 31 17:40	0° $\mathbb{M}$ 30'43			3072 Jan 12 18:09	0° $\mathfrak{H}$	
	3067 Jan 09 09:13	30° $\mathfrak{R}$ $\Omega$			3072 Feb 19 22:28	0° $\mathfrak{Y}$	
min. Earth dist.	3067 Feb 06 22:04	21° $\Omega$ 45'11	0.65196 AU		3072 Mar 29 15:21	0° $\mathfrak{B}$	
opposition	3067 Feb 09 21:43	20° $\Omega$ 33'20	4°35'26	evening set	3072 Apr 21 21:42	17° $\mathfrak{B}$ 34'43	
greatest brilliancy	3067 Feb 09 09:34	20° $\Omega$ 45'31	-1.4m	asc. node	3072 Apr 21 19:43	17° $\mathfrak{B}$ 31'00	
direct	3067 Mar 21 04:58	11° $\Omega$ 14'33			3072 May 08 16:47	0° $\mathbb{I}$	
	3067 May 26 16:34	0° $\mathbb{M}$			3072 Jun 19 15:44	0° $\mathfrak{G}$	
	3067 Jul 22 16:38	0° $\Omega$					
	3067 Sep 09 23:56	0° $\mathbb{M}$		conjunction	3072 Jun 21 03:11	1° $\mathfrak{G}$ 01'47	0°36'24
desc. node	3067 Sep 14 21:05	3° $\mathbb{M}$ 07'35		minimum elong	3072 Jun 21 01:22	0° $\mathfrak{G}$ 58'37	0°36'23
	3067 Oct 25 06:10	0° $\mathfrak{A}$		max. Earth dist.	3072 Jul 22 23:21	22° $\mathfrak{G}$ 49'04	2.56099 AU
	3067 Dec 06 12:16	0° $\mathfrak{Z}$			3072 Aug 02 17:01	0° $\Omega$	
evening set	3067 Dec 10 13:55	2° $\mathfrak{Z}$ 59'03		morning rise	3072 Aug 13 19:28	7° $\Omega$ 20'54	
max. Earth dist.	3067 Dec 30 02:54	17° $\mathfrak{Z}$ 31'51	2.40632 AU		3072 Sep 17 18:33	0° $\mathbb{M}$	
	3068 Jan 15 12:52	0° $\approx$			3072 Nov 04 18:37	0° $\Omega$	
					3072 Dec 25 09:45	0° $\mathbb{M}$	
conjunction	3068 Feb 07 00:23	17° $\approx$ 22'40	-1°04'02		3073 Feb 21 01:26	0° $\mathfrak{A}$	
minimum elong	3068 Feb 06 23:34	17° $\approx$ 21'04	1°04'03	retrograde	3073 Apr 23 16:38	16° $\mathfrak{A}$ 44'22	
	3068 Feb 23 03:25	0° $\mathfrak{H}$		desc. node	3073 May 06 17:26	15° $\mathfrak{A}$ 39'51	
	3068 Apr 01 04:50	0° $\mathfrak{Y}$		opposition	3073 May 29 15:41	9° $\mathfrak{A}$ 09'53	-1°02'09
morning rise	3068 Apr 15 10:59	11° $\mathfrak{Y}$ 12'12		greatest brilliancy	3073 May 29 22:50	9° $\mathfrak{A}$ 03'24	-2.0m
	3068 May 09 14:34	0° $\mathfrak{B}$		min. Earth dist.	3073 Jun 06 13:03	6° $\mathfrak{A}$ 18'42	0.53668 AU
	3068 Jun 18 05:13	0° $\mathbb{I}$			3073 Jul 05 07:43	30° $\mathfrak{R}$ $\mathbb{M}$	
asc. node	3068 Jul 17 22:15	21° $\mathbb{I}$ 35'21		direct	3073 Jul 08 02:28	29° $\mathbb{M}$ 56'49	
	3068 Jul 29 20:25	0° $\mathfrak{G}$			3073 Jul 10 21:50	0° $\mathfrak{A}$	
	3068 Sep 12 10:03	0° $\Omega$			3073 Sep 25 20:54	0° $\mathfrak{Z}$	
	3068 Oct 31 18:53	0° $\mathbb{M}$			3073 Nov 09 11:50	0° $\approx$	
	3069 Jan 06 03:19	0° $\Omega$			3073 Dec 19 20:58	0° $\mathfrak{H}$	
retrograde	3069 Feb 03 02:50	4° $\Omega$ 17'25			3074 Jan 28 02:33	0° $\mathfrak{Y}$	
	3069 Feb 28 20:20	30° $\mathfrak{R}$ $\mathbb{M}$			3074 Mar 08 17:26	0° $\mathfrak{B}$	
opposition	3069 Mar 15 03:16	24° $\mathbb{M}$ 41'53	4°02'52	asc. node	3074 Mar 09 19:27	0° $\mathfrak{B}$ 48'34	
greatest brilliancy	3069 Mar 15 06:04	24° $\mathbb{M}$ 39'06	-1.3m		3074 Apr 18 15:55	0° $\mathbb{I}$	
min. Earth dist.	3069 Mar 16 00:45	24° $\mathbb{M}$ 20'30	0.67820 AU		3074 May 31 09:50	0° $\mathfrak{G}$	
direct	3069 Apr 25 04:52	14° $\mathbb{M}$ 47'52		evening set	3074 Jun 15 23:56	10° $\mathfrak{G}$ 36'59	
	3069 Jun 22 06:09	0° $\Omega$			3074 Jul 15 00:47	0° $\Omega$	
desc. node	3069 Aug 01 20:38	20° $\Omega$ 38'36					
	3069 Aug 17 23:49	0° $\mathbb{M}$		conjunction	3074 Aug 05 23:09	14° $\Omega$ 21'21	1°06'14
	3069 Oct 04 03:05	0° $\mathfrak{A}$		minimum elong	3074 Aug 05 22:28	14° $\Omega$ 20'15	1°06'14
	3069 Nov 15 20:22	0° $\mathfrak{Z}$		max. Earth dist.	3074 Aug 19 06:06	22° $\Omega$ 57'35	2.64593 AU
	3069 Dec 25 20:17	0° $\approx$			3074 Aug 30 04:51	0° $\mathbb{M}$	
	3070 Feb 02 06:53	0° $\mathfrak{H}$		morning rise	3074 Sep 21 21:22	14° $\mathbb{M}$ 29'02	
evening set	3070 Feb 10 20:33	6° $\mathfrak{H}$ 46'15			3074 Oct 16 09:31	0° $\Omega$	
	3070 Mar 12 05:22	0° $\mathfrak{Y}$			3074 Dec 03 05:48	0° $\mathbb{M}$	
	3070 Apr 19 14:52	0° $\mathfrak{B}$			3075 Jan 20 21:27	0° $\mathfrak{A}$	
					3075 Mar 12 16:03	0° $\mathfrak{Z}$	
conjunction	3070 Apr 20 11:58	0° $\mathfrak{B}$ 40'38	-0°29'30	desc. node	3075 Mar 24 16:49	6° $\mathfrak{Z}$ 42'47	
minimum elong	3070 Apr 20 14:33	0° $\mathfrak{B}$ 45'36	0°29'27		3075 May 11 06:33	0° $\approx$	
	3070 May 29 07:07	0° $\mathbb{I}$		retrograde	3075 Jun 26 07:58	10° $\approx$ 41'14	
asc. node	3070 Jun 04 20:27	4° $\mathbb{I}$ 49'56		opposition	3075 Jul 27 14:38	5° $\approx$ 11'34	-5°55'18

greatest brilliancy	3075 Jul 28 23:03	4° $\approx$ 47'42	-2.7m	evening set	3080 Oct 09 09:13	1° $\mathbb{M}$ 59'50	
min. Earth dist.	3075 Aug 03 05:22	3° $\approx$ 15'10	0.40698 AU	max. Earth dist.	3080 Oct 29 08:00	15° $\mathbb{M}$ 13'10	2.57734 AU
	3075 Aug 16 18:14	30° $\mathbb{R}$ 3		desc. node	3080 Nov 13 13:48	25° $\mathbb{M}$ 31'27	
direct	3075 Aug 30 01:10	28° $\mathbb{Z}$ 48'09			3080 Nov 20 02:48	0° $\mathbb{X}$	
	3075 Sep 12 04:56	0° $\approx$					
	3075 Nov 16 22:39	0° $\mathbb{H}$		conjunction	3080 Nov 25 14:26	3° $\mathbb{X}$ 46'45	-0°06'59
	3075 Dec 31 20:14	0° $\mathbb{Y}$		minimum elong	3080 Nov 25 14:09	3° $\mathbb{X}$ 46'17	0°06'59
asc. node	3076 Jan 25 17:59	17° $\mathbb{Y}$ 25'31		behind sun begin	3080 Nov 24 19:34	3° $\mathbb{X}$ 14'11	
	3076 Feb 12 15:43	0° $\mathbb{B}$		behind sun end	3080 Nov 26 08:45	4° $\mathbb{X}$ 18'24	
	3076 Mar 26 20:38	0° $\mathbb{I}$			3081 Jan 01 17:44	0° $\mathbb{Z}$	
	3076 May 10 07:06	0° $\mathbb{G}$		morning rise	3081 Jan 14 08:03	9° $\mathbb{Z}$ 08'22	
	3076 Jun 25 02:32	0° $\mathbb{O}$			3081 Feb 11 12:12	0° $\approx$	
evening set	3076 Jul 27 14:48	20° $\mathbb{O}$ 52'45			3081 Mar 22 22:34	0° $\mathbb{H}$	
	3076 Aug 10 22:06	0° $\mathbb{M}$			3081 Apr 30 17:14	0° $\mathbb{Y}$	
max. Earth dist.	3076 Sep 10 22:38	19° $\mathbb{M}$ 43'45	2.67698 AU		3081 Jun 08 17:26	0° $\mathbb{B}$	
					3081 Jul 19 02:20	0° $\mathbb{I}$	
conjunction	3076 Sep 12 02:26	20° $\mathbb{M}$ 27'58	1°03'37		3081 Aug 31 13:39	0° $\mathbb{G}$	
minimum elong	3076 Sep 12 03:12	20° $\mathbb{M}$ 29'10	1°03'37	asc. node	3081 Sep 16 15:17	10° $\mathbb{G}$ 10'59	
	3076 Sep 27 01:59	0° $\mathbb{L}$			3081 Oct 22 01:55	0° $\mathbb{O}$	
morning rise	3076 Oct 26 10:35	18° $\mathbb{L}$ 45'10		retrograde	3081 Dec 17 20:14	16° $\mathbb{O}$ 28'00	
	3076 Nov 12 22:37	0° $\mathbb{M}$		min. Earth dist.	3082 Jan 22 05:59	8° $\mathbb{O}$ 18'15	0.62390 AU
	3076 Dec 29 02:19	0° $\mathbb{X}$		opposition	3082 Jan 26 17:47	6° $\mathbb{O}$ 30'40	4°24'59
desc. node	3077 Feb 08 15:58	27° $\mathbb{X}$ 27'39		greatest brilliancy	3082 Jan 26 00:15	6° $\mathbb{O}$ 48'11	-1.5m
	3077 Feb 12 11:29	0° $\mathbb{Z}$			3082 Feb 14 17:07	30° $\mathbb{R}$ 3	
	3077 Mar 29 06:52	0° $\approx$		direct	3082 Mar 05 23:33	27° $\mathbb{G}$ 33'39	
	3077 May 13 02:43	0° $\mathbb{H}$			3082 Mar 26 21:22	0° $\mathbb{O}$	
	3077 Jun 29 04:04	0° $\mathbb{Y}$			3082 Jun 07 22:14	0° $\mathbb{M}$	
retrograde	3077 Sep 13 05:19	28° $\mathbb{Y}$ 53'45			3082 Jul 31 03:14	0° $\mathbb{L}$	
min. Earth dist.	3077 Oct 09 21:31	24° $\mathbb{Y}$ 26'47	0.38875 AU		3082 Sep 17 11:01	0° $\mathbb{M}$	
opposition	3077 Oct 15 13:34	22° $\mathbb{Y}$ 47'27	-3°46'41	desc. node	3082 Oct 01 12:48	9° $\mathbb{M}$ 10'06	
greatest brilliancy	3077 Oct 14 22:30	22° $\mathbb{Y}$ 58'29	-2.9m		3082 Nov 01 11:07	0° $\mathbb{X}$	
direct	3077 Nov 14 11:19	17° $\mathbb{Y}$ 31'06		evening set	3082 Nov 20 21:25	13° $\mathbb{X}$ 34'12	
asc. node	3077 Dec 12 16:45	22° $\mathbb{Y}$ 17'12		max. Earth dist.	3082 Dec 05 11:28	23° $\mathbb{X}$ 59'45	2.45757 AU
	3078 Jan 01 18:27	0° $\mathbb{B}$			3082 Dec 13 17:58	0° $\mathbb{Z}$	
	3078 Feb 26 22:19	0° $\mathbb{I}$					
	3078 Apr 17 11:11	0° $\mathbb{G}$		conjunction	3083 Jan 13 18:33	23° $\mathbb{Z}$ 03'31	-0°54'06
	3078 Jun 04 23:20	0° $\mathbb{O}$		minimum elong	3083 Jan 13 16:39	22° $\mathbb{Z}$ 59'55	0°54'04
	3078 Jul 23 05:28	0° $\mathbb{M}$			3083 Jan 22 21:56	0° $\approx$	
evening set	3078 Sep 03 01:23	26° $\mathbb{M}$ 16'01			3083 Mar 02 16:15	0° $\mathbb{H}$	
	3078 Sep 08 22:44	0° $\mathbb{L}$		morning rise	3083 Mar 17 02:57	11° $\mathbb{H}$ 20'09	
max. Earth dist.	3078 Oct 03 23:07	15° $\mathbb{L}$ 59'04	2.65348 AU		3083 Apr 09 20:29	0° $\mathbb{Y}$	
					3083 May 18 07:44	0° $\mathbb{B}$	
conjunction	3078 Oct 18 08:49	25° $\mathbb{L}$ 17'54	0°37'04		3083 Jun 26 23:40	0° $\mathbb{I}$	
minimum elong	3078 Oct 18 09:50	25° $\mathbb{L}$ 19'33	0°37'04	asc. node	3083 Aug 04 13:21	27° $\mathbb{I}$ 45'14	
	3078 Oct 25 14:01	0° $\mathbb{M}$			3083 Aug 07 18:48	0° $\mathbb{G}$	
morning rise	3078 Dec 02 07:15	24° $\mathbb{M}$ 59'52			3083 Sep 21 23:54	0° $\mathbb{O}$	
	3078 Dec 09 17:10	0° $\mathbb{X}$			3083 Nov 13 02:18	0° $\mathbb{M}$	
desc. node	3078 Dec 27 14:43	12° $\mathbb{X}$ 12'35		retrograde	3084 Jan 21 19:21	21° $\mathbb{M}$ 37'26	
	3079 Jan 22 05:08	0° $\mathbb{Z}$		min. Earth dist.	3084 Mar 01 09:19	12° $\mathbb{M}$ 05'31	0.67589 AU
	3079 Mar 05 04:47	0° $\approx$		opposition	3084 Mar 02 00:25	11° $\mathbb{M}$ 50'25	4°24'26
	3079 Apr 15 00:01	0° $\mathbb{H}$		greatest brilliancy	3084 Mar 01 21:40	11° $\mathbb{M}$ 53'10	-1.3m
	3079 May 25 05:30	0° $\mathbb{Y}$		direct	3084 Apr 11 13:25	2° $\mathbb{M}$ 07'08	
	3079 Jul 05 01:23	0° $\mathbb{B}$			3084 Jul 05 08:22	0° $\mathbb{L}$	
	3079 Aug 18 00:41	0° $\mathbb{I}$		desc. node	3084 Aug 18 11:35	24° $\mathbb{L}$ 55'34	
	3079 Oct 18 08:36	0° $\mathbb{G}$			3084 Aug 26 18:52	0° $\mathbb{M}$	
asc. node	3079 Oct 30 16:50	2° $\mathbb{G}$ 26'15			3084 Oct 11 22:51	0° $\mathbb{X}$	
retrograde	3079 Nov 08 10:06	2° $\mathbb{G}$ 58'45			3084 Nov 23 10:05	0° $\mathbb{Z}$	
	3079 Nov 28 13:50	30° $\mathbb{R}$ II			3085 Jan 02 09:25	0° $\approx$	
min. Earth dist.	3079 Dec 08 11:26	26° $\mathbb{I}$ 44'11	0.51222 AU	evening set	3085 Jan 14 18:11	9° $\approx$ 33'01	
opposition	3079 Dec 16 06:04	23° $\mathbb{I}$ 49'21	2°20'40		3085 Feb 09 20:53	0° $\mathbb{H}$	
greatest brilliancy	3079 Dec 15 12:35	24° $\mathbb{I}$ 05'47	-2.1m		3085 Mar 19 19:39	0° $\mathbb{Y}$	
direct	3080 Jan 19 19:09	16° $\mathbb{I}$ 17'42					
	3080 Mar 13 03:16	0° $\mathbb{G}$		conjunction	3085 Mar 22 01:25	1° $\mathbb{Y}$ 46'05	-0°53'31
	3080 May 11 07:10	0° $\mathbb{O}$		minimum elong	3085 Mar 22 04:34	1° $\mathbb{Y}$ 52'17	0°53'29
	3080 Jul 02 03:22	0° $\mathbb{M}$			3085 Apr 27 04:05	0° $\mathbb{B}$	
	3080 Aug 20 07:45	0° $\mathbb{L}$		max. Earth dist.	3085 May 03 07:11	4° $\mathbb{B}$ 43'15	2.38071 AU
	3080 Oct 06 08:01	0° $\mathbb{M}$		morning rise	3085 May 31 16:43	26° $\mathbb{B}$ 14'00	



	3085 Jun 05 18:16	0°♊		min. Earth dist.	3090 Jul 09 20:05	7°♊51'36	0.45550 AU
asc. node	3085 Jun 21 13:40	11°♊36'46		direct	3090 Aug 06 20:50	2°♊48'32	
	3085 Jul 17 06:45	0°♊			3090 Oct 18 12:18	0°♊	
	3085 Aug 30 07:29	0°♊			3090 Dec 02 05:44	0°♊	
	3085 Oct 16 14:43	0°♊			3091 Jan 12 11:44	0°♊	
	3085 Dec 08 20:32	0°♊		asc. node	3091 Feb 11 10:23	21°♊58'21	
retrograde	3086 Feb 24 18:45	24°♊47'26			3091 Feb 22 10:56	0°♊	
opposition	3086 Apr 05 03:46	15°♊36'12	3°06'33		3091 Apr 05 10:48	0°♊	
greatest brilliancy	3086 Apr 05 12:34	15°♊27'33	-1.4m		3091 May 19 00:49	0°♊	
min. Earth dist.	3086 Apr 08 09:04	14°♊20'15	0.66172 AU		3091 Jul 03 06:25	0°♊	
direct	3086 May 16 14:28	5°♊34'00		evening set	3091 Jul 12 23:19	6°♊19'07	
desc. node	3086 Jul 06 10:11	18°♊01'33			3091 Aug 18 18:05	0°♊	
	3086 Jul 31 11:14	0°♊					
	3086 Sep 20 02:19	0°♊		conjunction	3091 Aug 29 17:53	7°♊01'05	1°07'51
	3086 Nov 02 19:27	0°♊		minimum elong	3091 Aug 29 18:12	7°♊01'35	1°07'51
	3086 Dec 13 03:08	0°♊		max. Earth dist.	3091 Sep 02 23:05	9°♊42'24	2.67147 AU
	3087 Jan 20 16:48	0°♊			3091 Oct 04 20:39	0°♊	
	3087 Feb 27 17:39	0°♊		morning rise	3091 Oct 13 16:50	5°♊37'14	
evening set	3087 Mar 27 08:22	21°♊34'40			3091 Nov 20 23:44	0°♊	
	3087 Apr 07 06:24	0°♊			3092 Jan 06 20:23	0°♊	
asc. node	3087 May 09 13:11	24°♊23'53			3092 Feb 22 14:03	0°♊	
	3087 May 17 02:58	0°♊		desc. node	3092 Feb 26 07:33	2°♊23'21	
					3092 Apr 09 20:11	0°♊	
conjunction	3087 May 31 03:46	10°♊15'10	0°14'00		3092 May 29 21:02	0°♊	
minimum elong	3087 May 31 02:46	10°♊13'21	0°14'00	retrograde	3092 Aug 14 15:56	27°♊20'14	
behind sun begin	3087 May 30 14:24	9°♊50'58		opposition	3092 Sep 13 20:12	22°♊16'49	-6°15'20
behind sun end	3087 May 31 15:07	10°♊35'42		min. Earth dist.	3092 Sep 13 02:18	22°♊28'41	0.37169 AU
	3087 Jun 27 20:57	0°♊		greatest brilliancy	3092 Sep 13 20:36	22°♊16'34	-2.9m
max. Earth dist.	3087 Jul 10 14:52	8°♊51'44	2.51407 AU	direct	3092 Oct 13 09:57	17°♊22'24	
morning rise	3087 Jul 28 04:27	20°♊51'49			3092 Nov 29 21:37	0°♊	
	3087 Aug 10 19:14	0°♊		asc. node	3092 Dec 29 09:39	15°♊30'42	
	3087 Sep 25 23:15	0°♊			3093 Jan 22 15:10	0°♊	
	3087 Nov 13 15:31	0°♊			3093 Mar 10 22:49	0°♊	
	3088 Jan 05 15:26	0°♊			3093 Apr 26 14:52	0°♊	
	3088 Mar 24 11:47	0°♊			3093 Jun 12 17:59	0°♊	
retrograde	3088 Apr 04 23:18	0°♊45'45			3093 Jul 30 07:11	0°♊	
	3088 Apr 15 22:39	30°♊		evening set	3093 Aug 19 18:06	12°♊54'10	
opposition	3088 May 12 05:03	22°♊36'11	0°28'05		3093 Sep 15 17:36	0°♊	
greatest brilliancy	3088 May 12 08:20	22°♊33'06	-1.7m	max. Earth dist.	3093 Sep 24 20:28	5°♊48'45	2.66927 AU
min. Earth dist.	3088 May 19 00:18	20°♊03'01	0.58293 AU				
desc. node	3088 May 23 08:46	18°♊29'15		conjunction	3093 Oct 04 03:54	11°♊46'03	0°49'48
direct	3088 Jun 21 18:34	12°♊54'15		minimum elong	3093 Oct 04 04:59	11°♊47'47	0°49'48
	3088 Aug 19 00:50	0°♊			3093 Nov 01 09:40	0°♊	
	3088 Oct 08 08:16	0°♊		morning rise	3093 Nov 17 11:08	10°♊30'09	
	3088 Nov 19 14:13	0°♊			3093 Dec 16 20:24	0°♊	
	3088 Dec 29 01:00	0°♊		desc. node	3094 Jan 13 06:43	18°♊33'38	
	3089 Feb 05 16:46	0°♊			3094 Jan 29 22:17	0°♊	
	3089 Mar 16 20:08	0°♊			3094 Mar 13 17:02	0°♊	
asc. node	3089 Mar 26 11:15	7°♊14'37			3094 Apr 24 11:52	0°♊	
	3089 Apr 26 08:08	0°♊			3094 Jun 04 23:16	0°♊	
evening set	3089 May 27 12:30	22°♊13'09			3094 Jul 17 21:35	0°♊	
	3089 Jun 07 16:44	0°♊			3094 Sep 06 21:49	0°♊	
				retrograde	3094 Oct 20 07:54	11°♊31'55	
conjunction	3089 Jul 20 10:49	28°♊57'13	0°59'05	asc. node	3094 Nov 16 07:57	6°♊27'19	
minimum elong	3089 Jul 20 09:28	28°♊54'59	0°59'04	min. Earth dist.	3094 Nov 17 04:50	6°♊09'47	0.45918 AU
	3089 Jul 22 00:41	0°♊		opposition	3094 Nov 25 11:33	3°♊16'15	0°31'49
max. Earth dist.	3089 Aug 09 08:25	12°♊03'30	2.61890 AU	greatest brilliancy	3094 Nov 25 07:04	3°♊20'11	-2.4m
	3089 Sep 06 01:47	0°♊			3094 Dec 05 11:55	30°♊	
morning rise	3089 Sep 07 09:29	0°♊50'48		direct	3094 Dec 28 05:46	26°♊34'05	
	3089 Oct 23 10:51	0°♊			3095 Jan 21 06:42	0°♊	
	3089 Dec 11 00:51	0°♊			3095 Mar 30 06:35	0°♊	
	3090 Jan 30 15:40	0°♊			3095 May 21 22:01	0°♊	
	3090 Mar 28 17:52	0°♊			3095 Jul 10 21:48	0°♊	
desc. node	3090 Apr 10 07:34	5°♊26'11			3095 Aug 28 09:06	0°♊	
retrograde	3090 May 29 02:45	16°♊57'34		evening set	3095 Sep 25 14:09	17°♊56'23	
opposition	3090 Jul 01 10:48	10°♊35'05	-3°59'56		3095 Oct 14 04:30	0°♊	
greatest brilliancy	3090 Jul 02 14:42	10°♊12'19	-2.4m	max. Earth dist.	3095 Oct 19 11:29	3°♊28'10	2.61340 AU

conjunction	3095 Nov 10 14:48	18° $\mathbb{M}$ 10'32	0°11'42	asc. node	3100 Jul 09 05:33	18° $\mathbb{II}$ 12'56	
minimum elong	3095 Nov 10 15:13	18° $\mathbb{M}$ 11'13	0°11'41		3100 Jul 25 19:55	0° $\mathfrak{C}$	
behind sun begin	3095 Nov 10 01:33	17° $\mathbb{M}$ 48'19			3100 Sep 08 02:22	0° $\mathcal{O}$	
behind sun end	3095 Nov 11 04:52	18° $\mathbb{M}$ 34'09			3100 Oct 26 10:21	0° $\mathfrak{M}$	
	3095 Nov 28 01:35	0° $\mathcal{A}$			3100 Dec 23 21:29	0° $\mathcal{L}$	
desc. node	3095 Dec 01 05:04	2° $\mathcal{A}$ 09'11		retrograde	3101 Feb 11 21:27	12° $\mathcal{L}$ 01'06	
morning rise	3095 Dec 27 18:20	20° $\mathcal{A}$ 37'06		opposition	3101 Mar 23 17:25	2° $\mathcal{L}$ 33'17	3°45'11
	3096 Jan 09 23:37	0° $\mathfrak{Z}$		greatest brilliancy	3101 Mar 23 22:46	2° $\mathcal{L}$ 27'58	-1.3m
	3096 Feb 20 03:41	0° $\approx$		min. Earth dist.	3101 Mar 25 10:37	1° $\mathcal{L}$ 52'27	0.67509 AU
	3096 Mar 31 00:17	0° $\mathcal{H}$			3101 Mar 30 05:41	30° $\mathcal{R}$ $\mathfrak{M}$	
	3096 May 09 04:42	0° $\mathcal{Y}$		direct	3101 May 03 23:45	22° $\mathfrak{M}$ 35'17	
	3096 Jun 17 15:02	0° $\mathcal{B}$			3101 Jun 11 05:46	0° $\mathcal{L}$	
	3096 Jul 28 16:19	0° $\mathbb{II}$		desc. node	3101 Jul 24 01:17	19° $\mathcal{L}$ 10'01	
	3096 Sep 12 01:18	0° $\mathfrak{C}$			3101 Aug 12 16:19	0° $\mathbb{M}$	
asc. node	3096 Oct 03 07:43	12° $\mathfrak{C}$ 05'49			3101 Sep 29 19:15	0° $\mathcal{A}$	
	3096 Nov 19 12:39	0° $\mathcal{O}$			3101 Nov 11 20:32	0° $\mathfrak{Z}$	
retrograde	3096 Dec 03 03:56	1° $\mathcal{O}$ 14'29			3101 Dec 21 23:13	0° $\approx$	
	3096 Dec 16 06:43	30° $\mathcal{R}$ $\mathfrak{C}$					
min. Earth dist.	3097 Jan 05 14:36	23° $\mathfrak{C}$ 45'37	0.58624 AU				
opposition	3097 Jan 11 13:11	21° $\mathfrak{C}$ 25'06	3°57'07				
greatest brilliancy	3097 Jan 10 16:05	21° $\mathfrak{C}$ 45'55	-1.7m				
direct	3097 Feb 17 12:16	12° $\mathfrak{C}$ 55'32					
	3097 Apr 20 15:08	0° $\mathcal{O}$					
	3097 Jun 17 20:38	0° $\mathfrak{M}$					
	3097 Aug 07 23:11	0° $\mathcal{L}$					
	3097 Sep 24 15:21	0° $\mathbb{M}$					
desc. node	3097 Oct 18 03:36	15° $\mathbb{M}$ 29'58					
evening set	3097 Nov 03 07:48	26° $\mathbb{M}$ 26'45					
	3097 Nov 08 12:05	0° $\mathcal{A}$					
max. Earth dist.	3097 Nov 18 15:51	7° $\mathcal{A}$ 02'23	2.50842 AU				
	3097 Dec 20 21:26	0° $\mathfrak{Z}$					
conjunction	3097 Dec 23 19:25	2° $\mathfrak{Z}$ 07'22	-0°37'24				
minimum elong	3097 Dec 23 17:51	2° $\mathfrak{Z}$ 04'31	0°37'24				
	3098 Jan 30 06:20	0° $\approx$					
morning rise	3098 Feb 18 01:32	14° $\approx$ 21'56					
	3098 Mar 10 06:07	0° $\mathcal{H}$					
	3098 Apr 17 14:59	0° $\mathcal{Y}$					
	3098 May 26 05:39	0° $\mathcal{B}$					
	3098 Jul 05 01:10	0° $\mathbb{II}$					
	3098 Aug 16 04:33	0° $\mathfrak{C}$					
asc. node	3098 Aug 21 07:19	3° $\mathfrak{C}$ 29'07					
	3098 Oct 01 13:40	0° $\mathcal{O}$					
	3098 Nov 29 06:38	0° $\mathfrak{M}$					
retrograde	3099 Jan 08 11:27	8° $\mathfrak{M}$ 39'11					
	3099 Feb 14 13:38	30° $\mathcal{R}$ $\mathcal{O}$					
min. Earth dist.	3099 Feb 15 13:25	29° $\mathcal{O}$ 36'14	0.66318 AU				
opposition	3099 Feb 17 17:16	28° $\mathcal{O}$ 44'14	4°35'00				
greatest brilliancy	3099 Feb 17 08:25	28° $\mathcal{O}$ 53'07	-1.3m				
direct	3099 Mar 29 12:44	19° $\mathcal{O}$ 15'39					
	3099 May 16 05:31	0° $\mathfrak{M}$					
	3099 Jul 16 15:25	0° $\mathcal{L}$					
	3099 Sep 04 21:05	0° $\mathbb{M}$					
desc. node	3099 Sep 05 02:42	0° $\mathbb{M}$ 08'53					
	3099 Oct 20 10:42	0° $\mathcal{A}$					
	3099 Dec 01 18:59	0° $\mathfrak{Z}$					
evening set	3099 Dec 22 19:15	15° $\mathfrak{Z}$ 34'36					
	3100 Jan 10 19:14	0° $\approx$					
max. Earth dist.	3100 Jan 22 12:35	9° $\approx$ 01'58	2.38183 AU				
	3100 Feb 18 08:36	0° $\mathcal{H}$					
conjunction	3100 Feb 22 03:44	2° $\mathcal{H}$ 59'20	-1°04'30				
minimum elong	3100 Feb 22 04:23	3° $\mathcal{H}$ 00'36	1°04'30				
	3100 Mar 28 08:46	0° $\mathcal{Y}$					
morning rise	3100 May 03 19:06	28° $\mathcal{Y}$ 30'29					
	3100 May 05 17:24	0° $\mathcal{B}$					
	3100 Jun 14 07:01	0° $\mathbb{II}$					