

superior conj	799 Oct 11 j 01:28	21°♌08'48	1°00'19	minimum elong	802 Mar 11 j 09:04	24°♋04'07	8°10'20
minimum elong	799 Oct 11 j 12:01	21°♌41'55	0°59'57	morning rise	802 Mar 15 j 01:29	21°♋47'07	
	799 Oct 18 j 02:39	0°♌		direct	802 Apr 01 j 04:56	16°♋06'11	
desc. node	799 Nov 08 j 04:06	26°♌28'06		greatest brilliancy	802 Apr 12 j 19:17	18°♋31'47	-4.5m
	799 Nov 10 j 23:33	0°♌		desc. node	802 Apr 24 j 22:54	25°♋08'25	
evening rise	799 Nov 20 j 18:57	12°♌19'17			802 May 01 j 15:30	0°♌	
	799 Dec 04 j 20:53	0°♌		morning max el	802 May 20 j 04:04	16°♌13'46	45°48'51
	799 Dec 28 j 19:47	0°♌			802 Jun 02 j 23:18	0°♌	
	800 Jan 21 j 22:10	0°♌			802 Jun 30 j 16:36	0°♌	
	800 Feb 15 j 07:12	0°♌			802 Jul 26 j 19:46	0°♌	
asc. node	800 Feb 29 j 07:19	16°♌59'43		asc. node	802 Aug 16 j 02:25	24°♌03'40	
	800 Mar 11 j 03:36	0°♌			802 Aug 21 j 00:50	0°♌	
	800 Apr 05 j 18:36	0°♌			802 Sep 14 j 14:40	0°♌	
	800 May 02 j 19:33	0°♌			802 Oct 08 j 18:27	0°♌	
evening max el	800 May 22 j 07:54	19°♌48'39	45°20'18		802 Nov 01 j 16:42	0°♌	
	800 Jun 02 j 12:45	0°♌		morning set	802 Nov 15 j 01:52	16°♌50'05	
desc. node	800 Jun 19 j 20:48	12°♌48'29			802 Nov 25 j 12:49	0°♌	
greatest brilliancy	800 Jun 27 j 04:01	16°♌32'45	-4.5m	desc. node	802 Dec 05 j 15:58	12°♌45'26	
retrograde	800 Jul 09 j 21:12	19°♌23'41			802 Dec 19 j 08:52	0°♌	
evening set	800 Jul 26 j 20:55	14°♌00'05					
inferior conj	800 Jul 31 j 06:20	11°♌20'50	-7°-50'-36	superior conj	802 Dec 26 j 18:16	9°♌17'41	0°-47'-29
minimum elong	800 Jul 30 j 22:21	11°♌33'11	7°49'36	minimum elong	802 Dec 26 j 07:17	8°♌43'08	0°47'03
min. Earth dist.	800 Jul 31 j 13:51	11°♌09'13	0.28644 AU	max. Earth dist.	802 Dec 29 j 10:40	12°♌40'01	1.71199 AU
morning rise	800 Aug 03 j 23:29	9°♌04'30			803 Jan 12 j 06:03	0°♌	
direct	800 Aug 21 j 17:49	3°♌07'59			803 Feb 05 j 05:34	0°♌	
greatest brilliancy	800 Sep 05 j 06:22	6°♌50'34	-4.6m	evening rise	803 Feb 05 j 22:34	0°♌53'00	
	800 Oct 05 j 14:51	0°♌			803 Mar 01 j 08:54	0°♌	
morning max el	800 Oct 10 j 19:50	5°♌06'42	46°33'24		803 Mar 25 j 17:44	0°♌	
asc. node	800 Oct 11 j 00:01	5°♌17'12		asc. node	803 Mar 28 j 19:18	3°♌45'00	
	800 Nov 03 j 01:18	0°♌			803 Apr 19 j 09:45	0°♌	
	800 Nov 28 j 20:16	0°♌			803 May 14 j 11:12	0°♌	
	800 Dec 23 j 16:22	0°♌			803 Jun 09 j 02:26	0°♌	
	801 Jan 17 j 03:39	0°♌			803 Jul 05 j 17:49	0°♌	
desc. node	801 Jan 30 j 13:30	16°♌31'02		desc. node	803 Jul 18 j 08:31	13°♌31'40	
	801 Feb 10 j 11:58	0°♌		evening max el	803 Aug 03 j 14:43	29°♌56'33	46°05'09
	801 Mar 06 j 19:53	0°♌			803 Aug 03 j 16:09	0°♌	
	801 Mar 31 j 04:32	0°♌		greatest brilliancy	803 Sep 11 j 09:04	28°♌24'59	-4.6m
morning set	801 Apr 16 j 08:08	19°♌51'26			803 Sep 17 j 04:03	0°♌	
	801 Apr 24 j 14:16	0°♌		retrograde	803 Sep 21 j 22:09	0°♌25'43	
	801 May 19 j 00:40	0°♌			803 Sep 26 j 13:29	30°♌	
max. Earth dist.	801 May 22 j 16:50	4°♌30'40	1.73630 AU	evening set	803 Oct 08 j 01:59	25°♌25'47	
				inferior conj	803 Oct 12 j 14:52	22°♌44'11	-6°-13'-30
superior conj	801 May 23 j 05:07	5°♌08'23	0°-1'-11	minimum elong	803 Oct 13 j 01:31	22°♌28'00	6°11'05
minimum elong	801 May 23 j 05:21	5°♌09'07	0°01'10	min. Earth dist.	803 Oct 13 j 09:46	22°♌15'28	0.26975 AU
behind sun begin	801 May 22 j 06:55	4°♌00'14		morning rise	803 Oct 18 j 00:38	19°♌33'02	
behind sun end	801 May 24 j 03:48	6°♌18'01		direct	803 Nov 02 j 08:35	14°♌56'56	
asc. node	801 May 23 j 17:01	5°♌44'57		asc. node	803 Nov 08 j 11:54	15°♌41'31	
	801 Jun 12 j 10:51	0°♌		greatest brilliancy	803 Nov 15 j 18:05	18°♌17'09	-4.7m
evening rise	801 Jun 28 j 04:15	19°♌20'12			803 Dec 03 j 08:00	0°♌	
	801 Jul 06 j 20:17	0°♌		morning max el	803 Dec 23 j 04:03	18°♌32'18	46°56'44
	801 Jul 31 j 05:19	0°♌			804 Jan 03 j 01:54	0°♌	
	801 Aug 24 j 15:11	0°♌			804 Jan 29 j 18:59	0°♌	
desc. node	801 Sep 12 j 06:18	22°♌49'03			804 Feb 24 j 08:26	0°♌	
	801 Sep 18 j 03:23	0°♌		desc. node	804 Feb 28 j 01:27	4°♌24'27	
	801 Oct 12 j 19:35	0°♌			804 Mar 20 j 10:53	0°♌	
	801 Nov 06 j 19:11	0°♌			804 Apr 14 j 08:20	0°♌	
	801 Dec 02 j 11:38	0°♌			804 May 09 j 02:56	0°♌	
evening max el	801 Dec 29 j 04:21	29°♌03'50	47°03'39		804 Jun 02 j 18:52	0°♌	
	801 Dec 30 j 02:28	0°♌		asc. node	804 Jun 20 j 04:50	21°♌17'15	
asc. node	802 Jan 03 j 09:36	4°♌16'57		morning set	804 Jun 23 j 01:38	24°♌48'02	
greatest brilliancy	802 Feb 03 j 22:46	28°♌52'29	-4.6m		804 Jun 27 j 07:22	0°♌	
	802 Feb 06 j 11:15	0°♌			804 Jul 21 j 15:50	0°♌	
retrograde	802 Feb 17 j 22:55	2°♌29'07		max. Earth dist.	804 Jul 25 j 21:18	5°♌13'38	1.72948 AU
	802 Feb 28 j 22:30	30°♌					
evening set	802 Mar 07 j 16:50	26°♌22'02		superior conj	804 Jul 29 j 09:52	9°♌35'19	1°15'31
min. Earth dist.	802 Mar 10 j 19:50	24°♌25'00	0.28368 AU	minimum elong	804 Jul 29 j 02:39	9°♌13'00	1°15'21
inferior conj	802 Mar 11 j 02:54	24°♌13'51	8°10'56		804 Aug 14 j 20:41	0°♌	

evening rise	804 Sep 04 j 02:01	25°♎09'36		morning max el	807 Mar 06 j 09:24	2°≈55'31	46°27'26
	804 Sep 07 j 23:15	0°♌		desc. node	807 Mar 27 j 13:18	24°≈54'37	
	804 Oct 02 j 01:06	0°♌			807 Apr 01 j 05:27	0°♋	
desc. node	804 Oct 09 j 18:20	9°♌36'57			807 Apr 27 j 21:17	0°♍	
	804 Oct 26 j 03:22	0°♌			807 May 23 j 16:16	0°♎	
	804 Nov 19 j 07:08	0°♍			807 Jun 17 j 23:17	0°♏	
	804 Dec 13 j 14:38	0°≈			807 Jul 12 j 20:53	0°♐	
	805 Jan 07 j 06:48	0°♋		asc. node	807 Jul 18 j 16:34	7°♁04'35	
asc. node	805 Jan 30 j 21:24	27°♋52'21			807 Aug 06 j 09:53	0°♑	
	805 Feb 01 j 17:41	0°♍			807 Aug 30 j 15:32	0°♎	
	805 Feb 28 j 22:28	0°♎		morning set	807 Aug 31 j 15:03	1°♎13'10	
evening max el	805 Mar 10 j 12:07	9°♎42'01	45°53'03		807 Sep 23 j 15:59	0°♌	
	805 Apr 02 j 23:55	0°♏		max. Earth dist.	807 Oct 06 j 08:47	15°♌55'37	1.71467 AU
greatest brilliancy	805 Apr 13 j 21:05	6°♏34'42	-4.5m				
retrograde	805 Apr 28 j 13:34	10°♏21'20		superior conj	807 Oct 08 j 14:48	18°♌45'12	1°02'50
evening set	805 May 13 j 17:27	5°♏54'32		minimum elong	807 Oct 09 j 01:15	19°♌18'00	1°02'28
inferior conj	805 May 20 j 00:29	2°♏06'54	0°34'18		807 Oct 17 j 13:44	0°♌	
minimum elong	805 May 20 j 01:44	2°♏04'55	0°33'56	desc. node	807 Nov 07 j 06:14	25°♌59'41	
min. Earth dist.	805 May 20 j 02:40	2°♏03'27	0.28955 AU		807 Nov 10 j 10:44	0°♌	
desc. node	805 May 22 j 10:55	0°♏35'34		evening rise	807 Nov 18 j 05:36	9°♌46'51	
	805 May 23 j 10:10	30°♎			807 Dec 04 j 08:11	0°♍	
morning rise	805 May 26 j 10:07	28°♎15'45			807 Dec 28 j 07:14	0°≈	
direct	805 Jun 10 j 16:14	23°♎49'08			808 Jan 21 j 09:48	0°♋	
greatest brilliancy	805 Jun 24 j 03:42	26°♎59'34	-4.5m		808 Feb 14 j 19:13	0°♍	
	805 Jun 30 j 00:01	0°♏		asc. node	808 Feb 28 j 09:25	16°♍28'43	
morning max el	805 Jul 29 j 12:44	23°♏41'40	45°51'59		808 Mar 10 j 16:19	0°♎	
	805 Aug 04 j 22:51	0°♐			808 Apr 05 j 08:45	0°♏	
	805 Sep 01 j 22:48	0°♑			808 May 02 j 13:03	0°♐	
asc. node	805 Sep 12 j 14:20	12°♑09'29		evening max el	808 May 19 j 23:06	17°♐36'00	45°20'14
	805 Sep 27 j 18:55	0°♎			808 Jun 02 j 18:57	0°♑	
	805 Oct 22 j 13:57	0°♌		desc. node	808 Jun 18 j 22:45	11°♑26'35	
	805 Nov 15 j 20:09	0°♌		greatest brilliancy	808 Jun 24 j 15:13	14°♑16'07	-4.5m
	805 Dec 09 j 20:40	0°♌		retrograde	808 Jul 07 j 12:55	17°♑11'34	
desc. node	806 Jan 02 j 03:43	29°♌10'14		evening set	808 Jul 24 j 08:55	11°♑52'03	
	806 Jan 02 j 19:37	0°♍		inferior conj	808 Jul 28 j 21:48	9°♑07'48	-7°-41'-6
	806 Jan 26 j 19:08	0°≈		minimum elong	808 Jul 28 j 13:22	9°♑20'50	7°39'58
morning set	806 Jan 31 j 09:16	5°≈43'59		min. Earth dist.	808 Jul 29 j 04:21	8°♑57'40	0.28679 AU
	806 Feb 19 j 20:20	0°♋		morning rise	808 Aug 01 j 17:34	6°♑47'47	
				direct	808 Aug 19 j 09:54	0°♑54'20	
superior conj	806 Mar 12 j 07:27	25°♋25'37	-1°-20'-27	greatest brilliancy	808 Sep 02 j 23:19	4°♑38'16	-4.6m
minimum elong	806 Mar 12 j 14:13	25°♋46'34	1°20'22		808 Oct 05 j 14:44	0°♎	
max. Earth dist.	806 Mar 16 j 01:20	0°♍04'05	1.72621 AU	morning max el	808 Oct 08 j 11:39	2°♎50'30	46°32'01
	806 Mar 16 j 00:01	0°♍		asc. node	808 Oct 10 j 02:10	4°♎27'27	
	806 Apr 09 j 06:46	0°♎			808 Nov 02 j 17:51	0°♌	
evening rise	806 Apr 19 j 15:31	12°♎45'17			808 Nov 28 j 10:23	0°♌	
asc. node	806 Apr 25 j 07:14	19°♎42'09			808 Dec 23 j 05:19	0°♌	
	806 May 03 j 16:44	0°♏			809 Jan 16 j 15:54	0°♍	
	806 May 28 j 05:55	0°♐		desc. node	809 Jan 29 j 15:35	16°♍00'36	
	806 Jun 21 j 22:42	0°♑			809 Feb 09 j 23:45	0°≈	
	806 Jul 16 j 20:38	0°♎			809 Mar 06 j 07:19	0°♋	
	806 Aug 11 j 02:50	0°♌			809 Mar 30 j 15:44	0°♍	
desc. node	806 Aug 14 j 20:24	4°♌23'03		morning set	809 Apr 14 j 00:53	17°♍41'15	
	806 Sep 05 j 23:03	0°♌			809 Apr 24 j 01:18	0°♎	
	806 Oct 02 j 23:38	0°♌			809 May 18 j 11:37	0°♏	
evening max el	806 Oct 15 j 22:12	13°♌26'11	47°13'01				
	806 Nov 02 j 16:25	0°♍		superior conj	809 May 20 j 23:06	3°♏02'38	0°-4'-22
greatest brilliancy	806 Nov 23 j 15:03	13°♍55'09	-4.7m	minimum elong	809 May 21 j 00:00	3°♏05'24	0°04'20
retrograde	806 Dec 05 j 14:58	16°♍37'33		behind sun begin	809 May 20 j 02:08	1°♏58'14	
asc. node	806 Dec 05 j 23:45	16°♍37'23		behind sun end	809 May 21 j 21:52	4°♏12'33	
evening set	806 Dec 20 j 11:03	12°♍14'33		max. Earth dist.	809 May 20 j 15:26	2°♏39'04	1.73625 AU
min. Earth dist.	806 Dec 25 j 10:58	9°♍17'18	0.26653 AU	asc. node	809 May 22 j 19:03	5°♏17'34	
inferior conj	806 Dec 26 j 05:59	8°♍47'57	4°56'49		809 Jun 11 j 21:48	0°♐	
minimum elong	806 Dec 25 j 20:30	9°♍02'35	4°54'18	evening rise	809 Jun 25 j 23:18	17°♐17'25	
morning rise	806 Dec 31 j 06:22	5°♍47'59			809 Jul 06 j 07:20	0°♑	
direct	807 Jan 15 j 14:26	1°♍08'59			809 Jul 30 j 16:37	0°♎	
greatest brilliancy	807 Jan 26 j 12:40	3°♍22'24	-4.6m		809 Aug 24 j 02:53	0°♌	
	807 Mar 03 j 09:21	0°≈		desc. node	809 Sep 11 j 08:27	22°♌18'38	

	809 Sep 17 j 15:39	0°♍			812 Apr 13 j 20:06	0°♍	
	809 Oct 12 j 08:37	0°♌			812 May 08 j 14:15	0°♌	
	809 Nov 06 j 09:23	0°♋			812 Jun 02 j 05:54	0°♋	
	809 Dec 02 j 04:05	0°♊		asc. node	812 Jun 19 j 06:49	20°♋49'53	
evening max el	809 Dec 26 j 20:17	26°♋46'14	47°05'40	morning set	812 Jun 20 j 19:58	22°♋43'39	
	809 Dec 30 j 01:10	0°♋			812 Jun 26 j 18:16	0°♋	
asc. node	810 Jan 02 j 11:37	3°♋22'28			812 Jul 21 j 02:43	0°♋	
greatest brilliancy	810 Feb 01 j 15:08	26°♋36'43	-4.6m	max. Earth dist.	812 Jul 23 j 14:10	3°♋03'45	1.72997 AU
	810 Feb 12 j 08:26	0°♋					
retrograde	810 Feb 15 j 15:22	0°♋13'02		superior conj	812 Jul 27 j 03:54	7°♋28'53	1°14'01
	810 Feb 18 j 21:02	30°♋		minimum elong	812 Jul 26 j 20:21	7°♋05'31	1°13'51
evening set	810 Mar 05 j 10:17	24°♋03'07			812 Aug 14 j 07:39	0°♋	
min. Earth dist.	810 Mar 08 j 09:56	22°♋11'16	0.28327 AU	evening rise	812 Sep 01 j 17:38	22°♋54'20	
inferior conj	810 Mar 08 j 18:24	21°♋57'53	8°17'43		812 Sep 07 j 10:22	0°♋	
minimum elong	810 Mar 08 j 23:56	21°♋49'09	8°17'15		812 Oct 01 j 12:25	0°♋	
morning rise	810 Mar 12 j 13:50	19°♋36'07		desc. node	812 Oct 08 j 20:23	9°♋07'48	
direct	810 Mar 29 j 20:22	13°♋51'05			812 Oct 25 j 14:57	0°♋	
greatest brilliancy	810 Apr 10 j 07:44	16°♋14'28	-4.5m		812 Nov 18 j 19:05	0°♋	
desc. node	810 Apr 24 j 01:04	23°♋54'12			812 Dec 13 j 03:07	0°♋	
	810 May 02 j 02:07	0°♋			813 Jan 06 j 20:06	0°♋	
morning max el	810 May 17 j 20:24	14°♋03'22	45°49'27	asc. node	813 Jan 29 j 23:33	27°♋16'00	
	810 Jun 02 j 17:45	0°♋			813 Feb 01 j 08:38	0°♋	
	810 Jun 30 j 07:09	0°♋			813 Feb 28 j 17:41	0°♋	
asc. node	810 Jul 26 j 08:39	0°♋		evening max el	813 Mar 08 j 02:42	7°♋26'11	45°55'19
	810 Aug 15 j 04:35	23°♋33'42			813 Apr 03 j 20:12	0°♋	
	810 Aug 20 j 12:51	0°♋		greatest brilliancy	813 Apr 11 j 13:53	4°♋26'04	-4.5m
	810 Sep 14 j 02:15	0°♋		retrograde	813 Apr 26 j 05:45	8°♋12'56	
	810 Oct 08 j 05:50	0°♋		evening set	813 May 11 j 11:09	3°♋44'30	
	810 Nov 01 j 04:00	0°♋		inferior conj	813 May 17 j 17:05	29°♋58'26	0°53'50
morning set	810 Nov 12 j 13:01	14°♋18'43		minimum elong	813 May 17 j 19:03	29°♋55'20	0°53'15
	810 Nov 25 j 00:05	0°♋			813 May 17 j 16:05	30°♋	
desc. node	810 Dec 04 j 17:55	12°♋16'08		min. Earth dist.	813 May 17 j 19:45	29°♋54'13	0.28949 AU
	810 Dec 18 j 20:06	0°♋		desc. node	813 May 21 j 12:48	27°♋36'15	
				morning rise	813 May 24 j 02:59	26°♋06'35	
superior conj	810 Dec 24 j 03:46	6°♋41'21	0°-44'-5	direct	813 Jun 08 j 08:08	21°♋40'41	
minimum elong	810 Dec 23 j 17:17	6°♋08'23	0°43'39	greatest brilliancy	813 Jun 21 j 19:00	24°♋49'47	-4.5m
max. Earth dist.	810 Dec 26 j 19:54	10°♋02'54	1.71169 AU		813 Jul 01 j 04:01	0°♋	
	811 Jan 11 j 17:15	0°♋		morning max el	813 Jul 27 j 03:32	21°♋28'33	45°51'05
evening rise	811 Feb 03 j 09:58	28°♋23'57			813 Aug 04 j 18:37	0°♋	
	811 Feb 04 j 16:45	0°♋			813 Sep 01 j 13:46	0°♋	
	811 Feb 28 j 20:08	0°♋		asc. node	813 Sep 11 j 16:29	11°♋35'02	
asc. node	811 Mar 25 j 05:07	0°♋			813 Sep 27 j 08:05	0°♋	
	811 Mar 27 j 21:26	3°♋16'40			813 Oct 22 j 02:15	0°♋	
	811 Apr 18 j 21:30	0°♋			813 Nov 15 j 07:58	0°♋	
	811 May 13 j 23:38	0°♋			813 Dec 09 j 08:11	0°♋	
	811 Jun 08 j 16:11	0°♋		desc. node	814 Jan 01 j 05:46	28°♋41'11	
	811 Jul 05 j 10:20	0°♋			814 Jan 02 j 06:57	0°♋	
desc. node	811 Jul 17 j 10:36	12°♋47'55			814 Jan 26 j 06:19	0°♋	
evening max el	811 Aug 01 j 04:32	27°♋37'12	46°02'37	morning set	814 Jan 28 j 19:52	3°♋12'20	
	811 Aug 03 j 16:30	0°♋			814 Feb 19 j 07:23	0°♋	
greatest brilliancy	811 Sep 08 j 21:57	26°♋01'16	-4.6m				
retrograde	811 Sep 19 j 10:09	28°♋00'54		superior conj	814 Mar 09 j 21:28	23°♋06'18	-1°-21'-37
evening set	811 Oct 05 j 18:00	22°♋56'30		minimum elong	814 Mar 10 j 03:35	23°♋25'16	1°21'33
inferior conj	811 Oct 10 j 03:44	20°♋19'04	-6°-29'-38	max. Earth dist.	814 Mar 13 j 15:54	27°♋46'36	1.72563 AU
minimum elong	811 Oct 10 j 14:22	20°♋02'51	6°27'20		814 Mar 15 j 10:58	0°♋	
min. Earth dist.	811 Oct 10 j 23:11	19°♋49'25	0.27034 AU		814 Apr 08 j 17:39	0°♋	
morning rise	811 Oct 15 j 10:18	17°♋11'51		evening rise	814 Apr 17 j 07:57	10°♋34'43	
direct	811 Oct 30 j 22:09	12°♋31'01		asc. node	814 Apr 24 j 09:15	19°♋14'47	
asc. node	811 Nov 07 j 13:56	13°♋39'15			814 May 03 j 03:41	0°♋	
greatest brilliancy	811 Nov 13 j 08:39	15°♋51'46	-4.7m		814 May 27 j 17:03	0°♋	
	811 Dec 03 j 18:57	0°♋			814 Jun 21 j 10:14	0°♋	
morning max el	811 Dec 20 j 16:58	16°♋04'26	46°56'44		814 Jul 16 j 08:51	0°♋	
	812 Jan 02 j 21:14	0°♋			814 Aug 10 j 16:09	0°♋	
	812 Jan 29 j 10:19	0°♋		desc. node	814 Aug 13 j 22:31	3°♋49'35	
	812 Feb 23 j 21:56	0°♋			814 Sep 05 j 14:23	0°♋	
desc. node	812 Feb 27 j 03:34	3°♋51'05			814 Oct 02 j 19:19	0°♋	
	812 Mar 19 j 23:20	0°♋		evening max el	814 Oct 13 j 10:55	10°♋59'05	47°11'32

	814 Nov 03 j 05:12	0°☾		morning set	817 Apr 11 j 17:22	15°♊31'10	
greatest brilliancy	814 Nov 21 j 05:34	11°☾27'49	-4.7m		817 Apr 23 j 12:03	0°♄	
retrograde	814 Dec 03 j 03:40	14°☾08'44			817 May 17 j 22:17	0°♁	
asc. node	814 Dec 05 j 01:47	14°☾04'10					
evening set	814 Dec 17 j 21:24	9°☾49'01		superior conj	817 May 18 j 16:57	0°♁57'20	0°-7'-32
min. Earth dist.	814 Dec 23 j 00:35	6°☾47'45	0.26611 AU	minimum elong	817 May 18 j 18:30	1°♁02'07	0°07'29
inferior conj	814 Dec 23 j 18:35	6°☾20'03	4°36'39	behind sun begin	817 May 17 j 22:21	0°♁00'14	
minimum elong	814 Dec 23 j 09:29	6°☾34'03	4°34'08	behind sun end	817 May 19 j 14:40	2°♁04'01	
morning rise	814 Dec 28 j 21:55	3°☾16'20		max. Earth dist.	817 May 18 j 14:34	0°♁50'02	1.73617 AU
	815 Jan 05 j 03:04	30°♁		asc. node	817 May 21 j 21:04	4°♁51'03	
direct	815 Jan 13 j 02:18	28°♁41'25			817 Jun 11 j 08:28	0°♁	
	815 Jan 21 j 09:10	0°☾		evening rise	817 Jun 23 j 18:22	15°♁15'32	
greatest brilliancy	815 Jan 24 j 03:23	0°☾57'46	-4.6m		817 Jul 05 j 18:06	0°♁	
	815 Mar 03 j 09:25	0°♁			817 Jul 30 j 03:37	0°♁	
morning max el	815 Mar 03 j 22:47	0°♁32'52	46°29'00		817 Aug 23 j 14:16	0°♁	
desc. node	815 Mar 26 j 15:24	24°♁13'18		desc. node	817 Sep 10 j 10:32	21°♁49'04	
	815 Mar 31 j 22:01	0°♁			817 Sep 17 j 03:35	0°♁	
	815 Apr 27 j 11:06	0°♁			817 Oct 11 j 21:21	0°♁	
	815 May 23 j 04:42	0°♁			817 Nov 05 j 23:23	0°☾	
	815 Jun 17 j 10:55	0°♁			817 Dec 01 j 20:34	0°♁	
	815 Jul 12 j 08:04	0°♁		evening max el	817 Dec 24 j 12:16	24°♁29'07	47°07'24
asc. node	815 Jul 17 j 18:47	6°♁37'34			817 Dec 30 j 00:41	0°♁	
	815 Aug 05 j 20:49	0°♁		asc. node	818 Jan 01 j 13:48	2°♁27'43	
morning set	815 Aug 29 j 07:04	28°♁59'56		greatest brilliancy	818 Jan 30 j 08:37	24°♁22'15	-4.6m
	815 Aug 30 j 02:23	0°♁		retrograde	818 Feb 13 j 07:22	27°♁56'18	
	815 Sep 23 j 02:51	0°♁		evening set	818 Mar 03 j 03:17	21°♁44'15	
max. Earth dist.	815 Oct 03 j 21:58	13°♁32'07	1.71512 AU	min. Earth dist.	818 Mar 05 j 23:50	19°♁57'04	0.28279 AU
				inferior conj	818 Mar 06 j 09:37	19°♁41'36	8°23'52
superior conj	815 Oct 06 j 04:05	16°♁21'55	1°05'13	minimum elong	818 Mar 06 j 14:29	19°♁33'55	8°23'31
minimum elong	815 Oct 06 j 14:21	16°♁54'08	1°04'54	morning rise	818 Mar 10 j 01:56	17°♁24'31	
	815 Oct 17 j 00:42	0°♁		direct	818 Mar 27 j 11:36	11°♁35'55	
desc. node	815 Nov 06 j 08:12	25°♁31'06		greatest brilliancy	818 Apr 07 j 19:19	13°♁56'14	-4.5m
	815 Nov 09 j 21:49	0°♁		desc. node	818 Apr 23 j 03:01	22°♁42'18	
evening rise	815 Nov 15 j 15:55	7°♁13'40			818 May 02 j 09:38	0°♁	
	815 Dec 03 j 19:23	0°☾		morning max el	818 May 15 j 11:38	11°♁50'59	45°50'07
	815 Dec 27 j 18:32	0°♁			818 Jun 02 j 11:25	0°♁	
	816 Jan 20 j 21:18	0°♁			818 Jun 29 j 21:12	0°♁	
	816 Feb 14 j 07:04	0°♁			818 Jul 25 j 21:06	0°♁	
asc. node	816 Feb 27 j 11:32	15°♁58'25		asc. node	818 Aug 14 j 06:36	23°♁04'25	
	816 Mar 10 j 04:54	0°♁			818 Aug 20 j 00:29	0°♁	
	816 Apr 04 j 22:49	0°♁			818 Sep 13 j 13:28	0°♁	
	816 May 02 j 06:40	0°♁			818 Oct 07 j 16:51	0°♁	
evening max el	816 May 17 j 15:13	15°♁26'20	45°20'14		818 Oct 31 j 14:56	0°♁	
	816 Jun 03 j 03:08	0°♁		morning set	818 Nov 10 j 00:35	11°♁49'48	
desc. node	816 Jun 18 j 00:53	10°♁03'13			818 Nov 24 j 10:59	0°♁	
greatest brilliancy	816 Jun 22 j 03:16	12°♁01'32	-4.5m	desc. node	818 Dec 03 j 20:02	11°♁48'30	
retrograde	816 Jul 05 j 04:44	15°♁00'24			818 Dec 18 j 06:59	0°☾	
evening set	816 Jul 21 j 21:00	9°♁45'18					
inferior conj	816 Jul 26 j 13:18	6°♁55'53	-7°-30'-58	superior conj	818 Dec 21 j 13:21	4°☾06'23	0°-40'-36
minimum elong	816 Jul 26 j 04:28	7°♁09'33	7°29'42	minimum elong	818 Dec 21 j 03:28	3°☾35'19	0°40'10
min. Earth dist.	816 Jul 26 j 18:42	6°♁47'33	0.28709 AU	max. Earth dist.	818 Dec 24 j 03:12	7°☾20'46	1.71144 AU
morning rise	816 Jul 30 j 11:44	4°♁32'00			819 Jan 11 j 04:08	0°♁	
	816 Aug 09 j 01:03	30°♁		evening rise	819 Jan 31 j 20:59	25°♁54'28	
direct	816 Aug 17 j 02:21	28°♁42'08			819 Feb 04 j 03:40	0°♁	
	816 Aug 25 j 10:36	0°♁			819 Feb 28 j 07:06	0°♁	
greatest brilliancy	816 Aug 31 j 15:01	2°♁25'43	-4.6m		819 Mar 24 j 16:15	0°♁	
	816 Oct 05 j 13:11	0°♁		asc. node	819 Mar 26 j 23:25	2°♁48'37	
morning max el	816 Oct 06 j 03:23	0°♁35'22	46°30'26		819 Apr 18 j 08:58	0°♁	
asc. node	816 Oct 09 j 04:12	3°♁39'18			819 May 13 j 11:49	0°♁	
	816 Nov 02 j 09:49	0°♁			819 Jun 08 j 05:46	0°♁	
	816 Nov 28 j 00:08	0°♁			819 Jul 05 j 02:51	0°♁	
	816 Dec 22 j 18:00	0°♁		desc. node	819 Jul 16 j 12:44	12°♁04'40	
	817 Jan 16 j 03:55	0°☾		evening max el	819 Jul 29 j 17:30	25°♁16'49	46°00'07
desc. node	817 Jan 28 j 17:45	15°☾31'04			819 Aug 03 j 17:42	0°♁	
	817 Feb 09 j 11:17	0°♁		greatest brilliancy	819 Sep 06 j 11:31	23°♁39'32	-4.6m
	817 Mar 05 j 18:29	0°♁		retrograde	819 Sep 16 j 22:01	25°♁37'42	
	817 Mar 30 j 02:38	0°♁		evening set	819 Oct 03 j 10:05	20°♁28'42	

inferior conj	819 Oct 07 j 16:43	17°♁55'37	-6°-44'-54	max. Earth dist.	822 Mar 11 j 05:44	25°♁27'26	1.72508 AU
minimum elong	819 Oct 08 j 03:15	17°♁39'32	6°42'46		822 Mar 14 j 21:41	0°♁	
min. Earth dist.	819 Oct 08 j 12:59	17°♁24'40	0.27093 AU		822 Apr 08 j 04:22	0°♁	
morning rise	819 Oct 12 j 19:57	14°♁52'36		evening rise	822 Apr 15 j 00:26	8°♁24'50	
direct	819 Oct 28 j 11:17	10°♁06'31		asc. node	822 Apr 23 j 11:19	18°♁48'03	
asc. node	819 Nov 06 j 15:55	11°♁43'12			822 May 02 j 14:29	0°♁	
greatest brilliancy	819 Nov 10 j 23:59	13°♁28'51	-4.7m		822 May 27 j 04:05	0°♁	
	819 Dec 04 j 02:29	0°♁			822 Jun 20 j 21:41	0°♁	
morning max el	819 Dec 18 j 05:25	13°♁36'32	46°56'50		822 Jul 15 j 20:59	0°♁	
	820 Jan 02 j 15:37	0°♁			822 Aug 10 j 05:28	0°♁	
	820 Jan 29 j 01:04	0°♁		desc. node	822 Aug 13 j 00:33	3°♁16'01	
	820 Feb 23 j 11:01	0°♁			822 Sep 05 j 05:49	0°♁	
desc. node	820 Feb 26 j 05:34	3°♁18'31			822 Oct 02 j 15:29	0°♁	
	820 Mar 19 j 11:28	0°♁		evening max el	822 Oct 11 j 00:17	8°♁34'07	47°09'57
	820 Apr 13 j 07:36	0°♁			822 Nov 03 j 22:08	0°♁	
	820 May 08 j 01:19	0°♁		greatest brilliancy	822 Nov 18 j 19:19	8°♁59'38	-4.7m
	820 Jun 01 j 16:40	0°♁		retrograde	822 Nov 30 j 16:46	11°♁39'48	
morning set	820 Jun 18 j 14:07	20°♁39'35		asc. node	822 Dec 04 j 03:59	11°♁24'47	
asc. node	820 Jun 18 j 09:00	20°♁23'55		evening set	822 Dec 15 j 07:52	7°♁22'57	
	820 Jun 26 j 04:53	0°♁		min. Earth dist.	822 Dec 20 j 13:52	4°♁18'06	0.26571 AU
	820 Jul 20 j 13:19	0°♁		inferior conj	822 Dec 21 j 07:01	3°♁51'49	4°15'45
max. Earth dist.	820 Jul 21 j 09:01	1°♁00'51	1.73045 AU	minimum elong	822 Dec 20 j 22:23	4°♁05'03	4°13'17
				morning rise	822 Dec 26 j 13:17	0°♁44'36	
superior conj	820 Jul 24 j 21:54	5°♁23'17	1°12'25		822 Dec 27 j 22:27	30°♁	
minimum elong	820 Jul 24 j 14:02	4°♁58'59	1°12'14	direct	823 Jan 10 j 14:34	26°♁13'33	
	820 Aug 13 j 18:21	0°♁		greatest brilliancy	823 Jan 21 j 17:13	28°♁32'04	-4.6m
evening rise	820 Aug 30 j 09:30	20°♁40'43			823 Jan 25 j 00:51	0°♁	
	820 Sep 06 j 21:14	0°♁		morning max el	823 Mar 01 j 13:00	28°♁12'28	46°30'43
	820 Sep 30 j 23:30	0°♁			823 Mar 03 j 08:20	0°♁	
desc. node	820 Oct 07 j 22:22	8°♁39'11		desc. node	823 Mar 25 j 17:23	23°♁32'28	
	820 Oct 25 j 02:18	0°♁			823 Mar 31 j 14:09	0°♁	
	820 Nov 18 j 06:48	0°♁			823 Apr 27 j 00:40	0°♁	
	820 Dec 12 j 15:18	0°♁			823 May 22 j 16:59	0°♁	
asc. node	821 Jan 06 j 09:09	0°♁			823 Jun 16 j 22:30	0°♁	
	821 Jan 29 j 01:36	26°♁40'09			823 Jul 11 j 19:14	0°♁	
	821 Jan 31 j 23:25	0°♁		asc. node	823 Jul 16 j 20:48	6°♁09'55	
	821 Feb 28 j 13:08	0°♁			823 Aug 05 j 07:46	0°♁	
evening max el	821 Mar 05 j 16:54	5°♁10'08	45°57'31	morning set	823 Aug 26 j 23:09	26°♁46'57	
	821 Apr 04 j 23:45	0°♁			823 Aug 29 j 13:14	0°♁	
greatest brilliancy	821 Apr 09 j 05:45	2°♁16'37	-4.5m		823 Sep 22 j 13:43	0°♁	
retrograde	821 Apr 23 j 22:14	6°♁05'07		max. Earth dist.	823 Oct 01 j 10:14	11°♁05'49	1.71556 AU
evening set	821 May 09 j 04:56	1°♁34'33					
	821 May 11 j 22:08	30°♁		superior conj	823 Oct 03 j 17:31	13°♁59'10	1°07'29
inferior conj	821 May 15 j 09:41	27°♁50'22	1°13'21	minimum elong	823 Oct 04 j 03:32	14°♁30'36	1°07'12
minimum elong	821 May 15 j 12:21	27°♁46'10	1°12'35		823 Oct 16 j 11:40	0°♁	
min. Earth dist.	821 May 15 j 12:48	27°♁45'28	0.28944 AU	desc. node	823 Nov 05 j 10:19	25°♁02'54	
desc. node	821 May 20 j 14:56	24°♁38'47			823 Nov 09 j 08:55	0°♁	
morning rise	821 May 21 j 19:44	23°♁58'13		evening rise	823 Nov 13 j 02:19	4°♁40'43	
direct	821 Jun 05 j 23:52	19°♁32'30			823 Dec 03 j 06:38	0°♁	
greatest brilliancy	821 Jun 19 j 11:11	22°♁41'36	-4.5m		823 Dec 27 j 05:56	0°♁	
	821 Jul 02 j 00:08	0°♁			824 Jan 20 j 08:53	0°♁	
morning max el	821 Jul 24 j 19:05	19°♁17'52	45°50'17		824 Feb 13 j 19:01	0°♁	
	821 Aug 04 j 13:34	0°♁		asc. node	824 Feb 26 j 13:31	15°♁27'30	
	821 Sep 01 j 04:18	0°♁			824 Mar 09 j 17:35	0°♁	
asc. node	821 Sep 10 j 18:29	11°♁01'04			824 Apr 04 j 13:01	0°♁	
	821 Sep 26 j 20:56	0°♁			824 May 02 j 00:42	0°♁	
	821 Oct 21 j 14:18	0°♁		evening max el	824 May 15 j 07:45	13°♁17'41	45°20'11
	821 Nov 14 j 19:34	0°♁			824 Jun 03 j 14:19	0°♁	
	821 Dec 08 j 19:30	0°♁		desc. node	824 Jun 17 j 02:59	8°♁36'58	
desc. node	821 Dec 31 j 07:56	28°♁13'02		greatest brilliancy	824 Jun 19 j 16:30	9°♁48'24	-4.5m
	822 Jan 01 j 18:05	0°♁		retrograde	824 Jul 02 j 20:25	12°♁49'14	
	822 Jan 25 j 17:17	0°♁		evening set	824 Jul 19 j 09:21	7°♁38'45	
morning set	822 Jan 26 j 06:41	0°♁41'55		inferior conj	824 Jul 24 j 04:58	4°♁44'09	-7°-20'-18
	822 Feb 18 j 18:12	0°♁		minimum elong	824 Jul 23 j 19:48	4°♁58'21	7°18'52
				min. Earth dist.	824 Jul 24 j 09:25	4°♁37'15	0.28738 AU
superior conj	822 Mar 07 j 11:39	20°♁48'03	-1°-22'-38	morning rise	824 Jul 28 j 06:05	2°♁16'08	
minimum elong	822 Mar 07 j 17:04	21°♁04'51	1°22'35		824 Aug 01 j 09:28	30°♁	

direct	824 Aug 14 j 18:56	26°♄30'13		827 Feb 03 j 14:55	0°♁	
	824 Aug 28 j 19:48	0°♁		827 Feb 27 j 18:27	0°♁	
greatest brilliancy	824 Aug 29 j 05:47	0°♁11'47	-4.6m	827 Mar 24 j 03:46	0°♁	
morning max el	824 Oct 03 j 18:43	28°♁18'58	46°28'48	asc. node	827 Mar 26 j 01:30	2°♁19'45
	824 Oct 05 j 10:58	0°♁			827 Apr 17 j 20:52	0°♁
asc. node	824 Oct 08 j 06:15	2°♁51'32			827 May 13 j 00:26	0°♁
	824 Nov 02 j 01:42	0°♁			827 Jun 07 j 19:48	0°♁
	824 Nov 27 j 13:55	0°♁			827 Jul 04 j 20:00	0°♁
	824 Dec 22 j 06:45	0°♁		desc. node	827 Jul 15 j 14:43	11°♁19'39
	825 Jan 15 j 16:03	0°♁		evening max el	827 Jul 27 j 05:49	22°♁54'17 45°57'42
desc. node	825 Jan 27 j 19:42	15°♁00'22			827 Aug 03 j 20:37	0°♁
	825 Feb 08 j 22:59	0°♁		greatest brilliancy	827 Sep 04 j 00:17	21°♁16'20 -4.6m
	825 Mar 05 j 05:51	0°♁		retrograde	827 Sep 14 j 09:56	23°♁14'08
	825 Mar 29 j 13:44	0°♁		evening set	827 Oct 01 j 02:10	18°♁00'01
morning set	825 Apr 09 j 09:57	13°♁20'46		inferior conj	827 Oct 05 j 05:46	15°♁31'25 -6°-59'-19
	825 Apr 22 j 22:57	0°♁		minimum elong	827 Oct 05 j 16:08	15°♁15'36 6°57'19
				min. Earth dist.	827 Oct 06 j 02:51	14°♁59'14 0.27161 AU
superior conj	825 May 16 j 10:58	28°♁52'06	0°-10'-41	morning rise	827 Oct 10 j 05:35	12°♁32'58
minimum elong	825 May 16 j 13:11	28°♁58'54	0°10'35	direct	827 Oct 26 j 00:26	7°♁40'54
behind sun begin	825 May 15 j 20:08	28°♁06'31		asc. node	827 Nov 05 j 18:08	9°♁50'46
behind sun end	825 May 17 j 06:14	29°♁51'16		greatest brilliancy	827 Nov 08 j 16:27	11°♁06'21 -4.7m
max. Earth dist.	825 May 16 j 14:01	29°♁01'29	1.73603 AU		827 Dec 04 j 08:23	0°♁
	825 May 17 j 09:05	0°♁		morning max el	827 Dec 15 j 18:35	11°♁08'57 46°56'49
asc. node	825 May 20 j 23:15	4°♁24'35			828 Jan 02 j 10:05	0°♁
	825 Jun 10 j 19:17	0°♁			828 Jan 28 j 16:08	0°♁
evening rise	825 Jun 21 j 13:37	13°♁13'44			828 Feb 23 j 00:27	0°♁
	825 Jul 05 j 05:03	0°♁		desc. node	828 Feb 25 j 07:39	2°♁44'58
	825 Jul 29 j 14:52	0°♁			828 Mar 18 j 23:56	0°♁
	825 Aug 23 j 01:57	0°♁			828 Apr 12 j 19:28	0°♁
desc. node	825 Sep 09 j 12:29	21°♁18'12			828 May 07 j 12:45	0°♁
	825 Sep 16 j 15:51	0°♁			828 Jun 01 j 03:49	0°♁
	825 Oct 11 j 10:27	0°♁		morning set	828 Jun 16 j 08:17	18°♁34'21
	825 Nov 05 j 13:49	0°♁		asc. node	828 Jun 17 j 11:01	19°♁56'15
	825 Dec 01 j 13:39	0°♁			828 Jun 25 j 15:52	0°♁
evening max el	825 Dec 22 j 03:35	22°♁09'12	47°09'00	max. Earth dist.	828 Jul 19 j 05:37	29°♁02'22 1.73087 AU
	825 Dec 30 j 01:42	0°♁			828 Jul 20 j 00:16	0°♁
asc. node	825 Dec 31 j 15:48	1°♁30'32				
greatest brilliancy	826 Jan 28 j 02:45	22°♁07'24	-4.6m	superior conj	828 Jul 22 j 16:05	3°♁17'13 1°10'44
retrograde	826 Feb 10 j 22:51	25°♁38'08		minimum elong	828 Jul 22 j 07:57	2°♁52'05 1°10'31
evening set	826 Feb 28 j 19:59	19°♁24'32			828 Aug 13 j 05:22	0°♁
min. Earth dist.	826 Mar 03 j 14:00	17°♁41'06	0.28230 AU	evening rise	828 Aug 28 j 01:47	18°♁27'36
inferior conj	826 Mar 04 j 00:46	17°♁24'04	8°29'19		828 Sep 06 j 08:25	0°♁
minimum elong	826 Mar 04 j 04:55	17°♁17'30	8°29'03		828 Sep 30 j 10:55	0°♁
morning rise	826 Mar 07 j 14:07	15°♁11'19		desc. node	828 Oct 07 j 00:31	8°♁10'06
direct	826 Mar 25 j 02:23	9°♁19'31			828 Oct 24 j 14:02	0°♁
greatest brilliancy	826 Apr 05 j 07:12	11°♁36'59	-4.5m		828 Nov 17 j 18:56	0°♁
desc. node	826 Apr 22 j 05:08	21°♁31'42			828 Dec 12 j 04:00	0°♁
	826 May 02 j 15:22	0°♁			829 Jan 05 j 22:45	0°♁
morning max el	826 May 13 j 02:03	9°♁35'34	45°51'02	asc. node	829 Jan 28 j 03:36	26°♁02'26
	826 Jun 02 j 05:00	0°♁			829 Jan 31 j 14:53	0°♁
	826 Jun 29 j 11:21	0°♁			829 Feb 28 j 09:46	0°♁
	826 Jul 25 j 09:43	0°♁		evening max el	829 Mar 03 j 07:27	2°♁53'30 45°59'58
asc. node	826 Aug 13 j 08:38	22°♁34'26			829 Apr 06 j 16:59	0°♁
	826 Aug 19 j 12:21	0°♁		greatest brilliancy	829 Apr 06 j 20:43	0°♁04'33 -4.5m
	826 Sep 13 j 00:57	0°♁		retrograde	829 Apr 21 j 14:57	3°♁55'37
	826 Oct 07 j 04:11	0°♁			829 May 05 j 18:57	30°♁
	826 Oct 31 j 02:13	0°♁		evening set	829 May 06 j 22:42	29°♁22'34
morning set	826 Nov 07 j 12:03	9°♁19'24		inferior conj	829 May 13 j 02:05	25°♁40'27 1°32'58
	826 Nov 23 j 22:14	0°♁		minimum elong	829 May 13 j 05:27	25°♁35'11 1°31'59
desc. node	826 Dec 02 j 22:10	11°♁19'47		min. Earth dist.	829 May 13 j 05:23	25°♁35'16 0.28939 AU
	826 Dec 17 j 18:13	0°♁		morning rise	829 May 19 j 12:10	21°♁48'25
				desc. node	829 May 19 j 17:05	21°♁41'42
superior conj	826 Dec 18 j 22:47	1°♁29'49	0°-36'-59	direct	829 Jun 03 j 15:44	17°♁22'26
minimum elong	826 Dec 18 j 13:34	1°♁00'51	0°36'35	greatest brilliancy	829 Jun 17 j 03:24	20°♁32'01 -4.5m
max. Earth dist.	826 Dec 21 j 07:20	4°♁27'36	1.71120 AU		829 Jul 02 j 15:47	0°♁
	827 Jan 10 j 15:22	0°♁		morning max el	829 Jul 22 j 11:32	17°♁08'18 45°49'39
evening rise	827 Jan 29 j 07:46	23°♁23'07			829 Aug 04 j 08:27	0°♁

	829 Aug 31 j 19:00	0°♁			832 Mar 09 j 06:27	0°♄		
asc. node	829 Sep 09 j 20:33	10°♁26'39			832 Apr 04 j 03:33	0°♂		
	829 Sep 26 j 09:58	0°♎			832 May 01 j 19:24	0°♁		
	829 Oct 21 j 02:31	0°♊		evening max el	832 May 12 j 23:53	11°♁07'25	45°20'13	
	829 Nov 14 j 07:22	0°♌			832 Jun 04 j 05:39	0°♁		
	829 Dec 08 j 07:06	0°♈		desc. node	832 Jun 16 j 04:56	7°♁07'01		
desc. node	829 Dec 30 j 09:54	27°♈43'17		greatest brilliancy	832 Jun 17 j 06:28	7°♁35'33	-4.5m	
	830 Jan 01 j 05:31	0°♉		retrograde	832 Jun 30 j 11:28	10°♁37'26		
morning set	830 Jan 23 j 16:58	28°♉08'34		evening set	832 Jul 16 j 21:40	5°♁31'41		
	830 Jan 25 j 04:36	0°♊		inferior conj	832 Jul 21 j 20:33	2°♁32'03	-7°-8'-56	
	830 Feb 18 j 05:24	0°♋		minimum elong	832 Jul 21 j 11:07	2°♁46'42	7°07'22	
				min. Earth dist.	832 Jul 22 j 00:27	2°♁25'59	0.28764 AU	
superior conj	830 Mar 05 j 01:06	18°♋26'19	-1°-23'-31	morning rise	832 Jul 26 j 00:23	29°♁59'41		
minimum elong	830 Mar 05 j 05:45	18°♋40'44	1°23'30		832 Jul 26 j 00:10	30°♁		
max. Earth dist.	830 Mar 08 j 18:38	23°♋04'10	1.72453 AU	direct	832 Aug 12 j 11:03	24°♁17'54		
	830 Mar 14 j 08:46	0°♌		greatest brilliancy	832 Aug 26 j 19:53	27°♁56'37	-4.5m	
	830 Apr 07 j 15:25	0°♍			832 Aug 30 j 18:05	0°♁		
evening rise	830 Apr 12 j 16:21	6°♍12'09		morning max el	832 Oct 01 j 09:06	26°♁00'06	46°27'15	
asc. node	830 Apr 22 j 13:26	18°♍20'30			832 Oct 05 j 08:02	0°♎		
	830 May 02 j 01:38	0°♆		asc. node	832 Oct 07 j 08:24	2°♎04'38		
	830 May 26 j 15:28	0°♁			832 Nov 01 j 17:20	0°♊		
	830 Jun 20 j 09:30	0°♁			832 Nov 27 j 03:32	0°♌		
	830 Jul 15 j 09:30	0°♎			832 Dec 21 j 19:20	0°♈		
	830 Aug 09 j 19:10	0°♊			833 Jan 15 j 04:00	0°♉		
desc. node	830 Aug 12 j 02:36	2°♊41'36		desc. node	833 Jan 26 j 21:47	14°♉30'38		
	830 Sep 04 j 21:42	0°♌			833 Feb 08 j 10:29	0°♊		
	830 Oct 02 j 12:27	0°♈			833 Mar 04 j 17:02	0°♋		
evening max el	830 Oct 08 j 14:37	6°♈11'27	47°08'24		833 Mar 29 j 00:43	0°♌		
	830 Nov 04 j 20:58	0°♉		morning set	833 Apr 07 j 02:21	11°♌10'02		
greatest brilliancy	830 Nov 16 j 08:41	6°♉30'59	-4.7m		833 Apr 22 j 09:48	0°♍		
retrograde	830 Nov 28 j 06:09	9°♉10'31						
asc. node	830 Dec 03 j 05:56	8°♉39'17		superior conj	833 May 14 j 04:42	26°♍46'08	0°-13'-51	
evening set	830 Dec 12 j 18:38	4°♉56'22		minimum elong	833 May 14 j 07:33	26°♍54'54	0°13'43	
min. Earth dist.	830 Dec 18 j 03:01	1°♉48'18	0.26536 AU	behind sun begin	833 May 13 j 20:05	26°♍19'40		
inferior conj	830 Dec 18 j 19:27	1°♉23'09	3°54'13	behind sun end	833 May 14 j 19:02	27°♍30'09		
minimum elong	830 Dec 18 j 11:22	1°♉35'31	3°51'52	max. Earth dist.	833 May 14 j 11:31	27°♍07'05	1.73590 AU	
	830 Dec 21 j 02:10	30°♈			833 May 16 j 19:50	0°♆		
morning rise	830 Dec 24 j 04:32	28°♈12'33		asc. node	833 May 20 j 01:14	3°♆57'39		
direct	831 Jan 08 j 03:23	23°♈45'25			833 Jun 10 j 06:03	0°♁		
greatest brilliancy	831 Jan 19 j 06:24	26°♈05'00	-4.6m	evening rise	833 Jun 19 j 08:29	11°♁10'56		
	831 Jan 27 j 01:44	0°♉			833 Jul 04 j 15:57	0°♁		
morning max el	831 Feb 27 j 03:26	25°♉51'46	46°32'07		833 Jul 29 j 02:03	0°♎		
	831 Mar 03 j 06:38	0°♊			833 Aug 22 j 13:34	0°♊		
desc. node	831 Mar 24 j 19:32	22°♊51'37		desc. node	833 Sep 08 j 14:39	20°♊48'13		
	831 Mar 31 j 06:19	0°♋			833 Sep 16 j 04:05	0°♌		
	831 Apr 26 j 14:25	0°♌			833 Oct 10 j 23:32	0°♈		
	831 May 22 j 05:28	0°♍			833 Nov 05 j 04:16	0°♉		
	831 Jun 16 j 10:15	0°♆			833 Dec 01 j 06:52	0°♊		
	831 Jul 11 j 06:34	0°♁		evening max el	833 Dec 19 j 18:10	19°♊48'04	47°10'41	
asc. node	831 Jul 15 j 22:47	5°♁41'37			833 Dec 30 j 03:38	0°♋		
	831 Aug 04 j 18:52	0°♁		asc. node	833 Dec 30 j 17:50	0°♋33'07		
morning set	831 Aug 24 j 15:14	24°♁33'35		greatest brilliancy	834 Jan 25 j 20:58	19°♋53'39	-4.6m	
	831 Aug 29 j 00:15	0°♎		retrograde	834 Feb 08 j 14:10	23°♋21'26		
	831 Sep 22 j 00:45	0°♊		evening set	834 Feb 26 j 12:34	17°♋06'49		
max. Earth dist.	831 Sep 28 j 19:51	8°♊30'54	1.71595 AU	min. Earth dist.	834 Mar 01 j 04:39	15°♋26'19	0.28179 AU	
				inferior conj	834 Mar 01 j 16:07	15°♋08'08	8°33'49	
superior conj	831 Oct 01 j 07:19	11°♊37'16	1°09'37	minimum elong	834 Mar 01 j 19:32	15°♋02'43	8°33'39	
minimum elong	831 Oct 01 j 17:00	12°♊07'39	1°09'20	morning rise	834 Mar 05 j 02:45	12°♋59'17		
	831 Oct 15 j 22:45	0°♌		direct	834 Mar 22 j 16:46	7°♋04'34		
desc. node	831 Nov 04 j 12:26	24°♌34'31		greatest brilliancy	834 Apr 02 j 20:02	9°♋20'01	-4.5m	
	831 Nov 08 j 20:05	0°♈		desc. node	834 Apr 21 j 07:16	20°♋24'15		
evening rise	831 Nov 10 j 13:06	2°♈08'45			834 May 02 j 18:45	0°♌		
	831 Dec 02 j 17:54	0°♉		morning max el	834 May 10 j 16:10	7°♌20'09	45°51'47	
	831 Dec 26 j 17:20	0°♊			834 Jun 01 j 21:55	0°♍		
	832 Jan 19 j 20:31	0°♋			834 Jun 29 j 01:08	0°♆		
	832 Feb 13 j 07:05	0°♌			834 Jul 24 j 22:05	0°♁		
asc. node	832 Feb 25 j 15:37	14°♌56'33		asc. node	834 Aug 12 j 10:47	22°♁05'25		

	834 Aug 18 j 23:59	0°♈			837 Apr 09 j 11:06	0°♈	
	834 Sep 12 j 12:13	0°♉		retrograde	837 Apr 19 j 08:19	1°♈48'14	
	834 Oct 06 j 15:17	0°♊			837 Apr 28 j 19:30	30°♈	
	834 Oct 30 j 13:15	0°♋		evening set	837 May 04 j 16:53	27°♈12'43	
morning set	834 Nov 04 j 23:30	6°♋49'43		inferior conj	837 May 10 j 18:44	23°♈32'40	1°52'11
	834 Nov 23 j 09:14	0°♌		minimum elong	837 May 10 j 22:46	23°♈26'21	1°51'02
desc. node	834 Dec 02 j 00:07	10°♌51'16		min. Earth dist.	837 May 10 j 21:51	23°♈27'46	0.28931 AU
				morning rise	837 May 17 j 04:43	19°♈41'07	
superior conj	834 Dec 16 j 08:15	28°♌54'09	0°-33'-18	desc. node	837 May 18 j 18:58	18°♈50'29	
minimum elong	834 Dec 15 j 23:47	28°♌27'33	0°32'56	direct	837 Jun 01 j 08:17	15°♈14'44	
	834 Dec 17 j 05:11	0°♍		greatest brilliancy	837 Jun 14 j 18:51	18°♈23'43	-4.5m
max. Earth dist.	834 Dec 18 j 08:59	1°♍27'24	1.71097 AU		837 Jul 03 j 02:34	0°♈	
	835 Jan 10 j 02:19	0°♎		morning max el	837 Jul 20 j 04:44	15°♈02'20	45°48'50
evening rise	835 Jan 26 j 18:40	20°♎53'03			837 Aug 04 j 02:17	0°♈	
	835 Feb 03 j 01:51	0°♏			837 Aug 31 j 09:07	0°♈	
	835 Feb 27 j 05:25	0°♐		asc. node	837 Sep 08 j 22:40	9°♈53'38	
	835 Mar 23 j 14:53	0°♑			837 Sep 25 j 22:35	0°♈	
asc. node	835 Mar 25 j 03:38	1°♑52'13			837 Oct 20 j 14:25	0°♈	
	835 Apr 17 j 08:23	0°♒			837 Nov 13 j 18:52	0°♈	
	835 May 12 j 12:45	0°♓			837 Dec 07 j 18:21	0°♈	
	835 Jun 07 j 09:40	0°♈		desc. node	837 Dec 29 j 12:00	27°♈15'04	
desc. node	835 Jul 04 j 13:13	0°♉			837 Dec 31 j 16:37	0°♈	
evening max el	835 Jul 14 j 16:49	10°♉35'03		morning set	838 Jan 21 j 03:10	25°♈36'04	
	835 Jul 24 j 18:20	20°♉33'11	45°55'21		838 Jan 24 j 15:33	0°♈	
	835 Aug 04 j 00:55	0°♊			838 Feb 17 j 16:13	0°♈	
greatest brilliancy	835 Sep 01 j 12:01	18°♊53'02	-4.6m				
retrograde	835 Sep 11 j 22:21	20°♊51'46		superior conj	838 Mar 02 j 14:29	16°♈05'16	-1°-24'-16
evening set	835 Sep 28 j 18:11	15°♊32'18		minimum elong	838 Mar 02 j 18:19	16°♈17'13	1°24'16
inferior conj	835 Oct 02 j 18:49	13°♊08'11	-7°-12'-48	max. Earth dist.	838 Mar 06 j 08:33	20°♈45'01	1.72399 AU
minimum elong	835 Oct 03 j 04:57	12°♊52'44	7°10'57		838 Mar 13 j 19:31	0°♈	
min. Earth dist.	835 Oct 03 j 16:27	12°♊35'12	0.27229 AU		838 Apr 07 j 02:08	0°♈	
morning rise	835 Oct 07 j 15:11	10°♊14'41		evening rise	838 Apr 10 j 08:22	4°♈00'49	
direct	835 Oct 23 j 13:55	5°♊16'17		asc. node	838 Apr 21 j 15:27	17°♈53'44	
asc. node	835 Nov 04 j 20:05	8°♊03'26			838 May 01 j 12:25	0°♈	
greatest brilliancy	835 Nov 06 j 09:05	8°♊45'20	-4.7m		838 May 26 j 02:28	0°♈	
	835 Dec 04 j 11:58	0°♋			838 Jun 19 j 20:54	0°♈	
morning max el	835 Dec 13 j 08:44	8°♋44'59	46°56'47		838 Jul 14 j 21:39	0°♈	
	836 Jan 02 j 03:45	0°♌			838 Aug 09 j 08:36	0°♈	
	836 Jan 28 j 06:38	0°♍		desc. node	838 Aug 11 j 04:43	2°♈08'17	
	836 Feb 22 j 13:24	0°♎			838 Sep 04 j 13:33	0°♈	
desc. node	836 Feb 24 j 09:45	2°♎12'45			838 Oct 02 j 09:57	0°♈	
	836 Mar 18 j 11:57	0°♏		evening max el	838 Oct 06 j 05:39	3°♈51'13	47°06'30
	836 Apr 12 j 06:50	0°♐			838 Nov 06 j 04:15	0°♈	
	836 May 06 j 23:41	0°♑		greatest brilliancy	838 Nov 13 j 22:38	4°♈03'20	-4.7m
	836 May 31 j 14:30	0°♒		retrograde	838 Nov 25 j 19:15	6°♈41'01	
morning set	836 Jun 14 j 02:43	16°♒31'17		asc. node	838 Dec 02 j 07:59	5°♈47'40	
asc. node	836 Jun 16 j 13:02	19°♒29'56		evening set	838 Dec 10 j 05:32	2°♈29'44	
	836 Jun 25 j 02:26	0°♓			838 Dec 14 j 12:51	30°♈	
max. Earth dist.	836 Jul 17 j 03:06	27°♓07'45	1.73134 AU	min. Earth dist.	838 Dec 15 j 16:10	29°♈18'21	0.26500 AU
	836 Jul 19 j 10:51	0°♈		inferior conj	838 Dec 16 j 07:43	28°♈54'33	3°32'05
				minimum elong	838 Dec 16 j 00:15	29°♈05'59	3°29'52
superior conj	836 Jul 20 j 10:20	1°♈12'33	1°08'56	morning rise	838 Dec 21 j 19:28	25°♈40'35	
minimum elong	836 Jul 20 j 01:59	0°♈46'44	1°08'42	direct	839 Jan 05 j 16:06	21°♈17'35	
	836 Aug 12 j 16:03	0°♉		greatest brilliancy	839 Jan 16 j 19:04	23°♈37'32	-4.6m
evening rise	836 Aug 25 j 18:07	16°♉15'40			839 Jan 28 j 10:17	0°♈	
	836 Sep 05 j 19:17	0°♊		morning max el	839 Feb 24 j 17:07	23°♈29'51	46°33'32
	836 Sep 29 j 22:01	0°♋			839 Mar 03 j 03:49	0°♈	
desc. node	836 Oct 06 j 02:34	7°♋41'43		desc. node	839 Mar 23 j 21:37	22°♈11'54	
	836 Oct 24 j 01:27	0°♌			839 Mar 30 j 21:55	0°♈	
	836 Nov 17 j 06:45	0°♍			839 Apr 26 j 03:44	0°♈	
	836 Dec 11 j 16:24	0°♎			839 May 21 j 17:35	0°♈	
	837 Jan 05 j 12:05	0°♏			839 Jun 15 j 21:39	0°♈	
asc. node	837 Jan 27 j 05:45	25°♏26'02			839 Jul 10 j 17:33	0°♈	
	837 Jan 31 j 06:09	0°♐		asc. node	839 Jul 15 j 01:00	5°♈15'03	
	837 Feb 28 j 06:33	0°♑			839 Aug 04 j 05:38	0°♈	
evening max el	837 Feb 28 j 23:14	0°♑41'17	46°02'34	morning set	839 Aug 22 j 07:46	22°♈22'43	
greatest brilliancy	837 Apr 04 j 12:27	27°♑55'21	-4.5m		839 Aug 28 j 10:56	0°♈	

	839 Sep 21 j 11:30	0°♁		inferior conj	842 Feb 27 j 07:11	12°♁50'28	8°37'29
max. Earth dist.	839 Sep 26 j 04:22	5°♁53'25	1.71645 AU	minimum elong	842 Feb 27 j 09:48	12°♁46'19	8°37'24
				morning rise	842 Mar 02 j 15:21	10°♁45'17	
superior conj	839 Sep 28 j 21:29	9°♁17'27	1°11'36	direct	842 Mar 20 j 06:33	4°♁47'37	
minimum elong	839 Sep 29 j 06:46	9°♁46'32	1°11'21	greatest brilliancy	842 Mar 31 j 09:44	7°♁02'34	-4.5m
	839 Oct 15 j 09:38	0°♁		desc. node	842 Apr 20 j 09:14	19°♁17'16	
desc. node	839 Nov 03 j 14:25	24°♁06'14			842 May 02 j 20:56	0°♁	
evening rise	839 Nov 07 j 23:46	29°♁36'54		morning max el	842 May 08 j 06:12	5°♁03'44	45°52'48
	839 Nov 08 j 07:07	0°♁			842 Jun 01 j 14:42	0°♁	
	839 Dec 02 j 05:03	0°♁			842 Jun 28 j 14:55	0°♁	
	839 Dec 26 j 04:38	0°♁			842 Jul 24 j 10:29	0°♁	
	840 Jan 19 j 08:03	0°♁		asc. node	842 Aug 11 j 12:48	21°♁35'49	
	840 Feb 12 j 19:03	0°♁			842 Aug 18 j 11:40	0°♁	
asc. node	840 Feb 24 j 17:43	14°♁26'00			842 Sep 11 j 23:33	0°♁	
	840 Mar 08 j 19:14	0°♁			842 Oct 06 j 02:26	0°♁	
	840 Apr 03 j 18:04	0°♁			842 Oct 30 j 00:19	0°♁	
	840 May 01 j 14:21	0°♁		morning set	842 Nov 02 j 11:40	4°♁22'07	
evening max el	840 May 10 j 15:33	8°♁56'41	45°20'23		842 Nov 22 j 20:17	0°♁	
	840 Jun 05 j 01:41	0°♁		desc. node	842 Dec 01 j 02:15	10°♁23'11	
greatest brilliancy	840 Jun 14 j 20:52	5°♁24'21	-4.5m				
desc. node	840 Jun 15 j 07:06	5°♁35'20		superior conj	842 Dec 13 j 17:59	26°♁19'01	0°-29'-35
retrograde	840 Jun 28 j 02:28	8°♁27'29		minimum elong	842 Dec 13 j 10:21	25°♁55'00	0°29'14
evening set	840 Jul 14 j 10:23	3°♁26'10		max. Earth dist.	842 Dec 15 j 12:45	28°♁33'32	1.71086 AU
inferior conj	840 Jul 19 j 12:28	0°♁21'51	-6°-57'00		842 Dec 16 j 16:15	0°♁	
minimum elong	840 Jul 19 j 02:49	0°♁36'52	6°55'20		843 Jan 09 j 13:26	0°♁	
min. Earth dist.	840 Jul 19 j 16:06	0°♁16'11	0.28785 AU	evening rise	843 Jan 24 j 05:26	18°♁21'56	
	840 Jul 20 j 02:31	30°♁			843 Feb 02 j 13:01	0°♁	
morning rise	840 Jul 23 j 19:01	27°♁45'10			843 Feb 26 j 16:40	0°♁	
direct	840 Aug 10 j 03:00	22°♁07'25			843 Mar 23 j 02:20	0°♁	
greatest brilliancy	840 Aug 24 j 10:40	25°♁43'49	-4.5m	asc. node	843 Mar 24 j 05:36	1°♁23'12	
	840 Sep 01 j 00:33	0°♁			843 Apr 16 j 20:14	0°♁	
morning max el	840 Sep 28 j 22:54	23°♁40'50	46°25'38		843 May 12 j 01:26	0°♁	
	840 Oct 05 j 04:04	0°♁			843 Jun 06 j 23:57	0°♁	
asc. node	840 Oct 06 j 10:24	1°♁18'56			843 Jul 04 j 07:06	0°♁	
	840 Nov 01 j 08:33	0°♁		desc. node	843 Jul 13 j 18:57	9°♁49'09	
	840 Nov 26 j 16:57	0°♁		evening max el	843 Jul 22 j 07:43	18°♁13'47	45°53'11
	840 Dec 21 j 07:51	0°♁			843 Aug 04 j 07:27	0°♁	
	841 Jan 14 j 15:56	0°♁		greatest brilliancy	843 Aug 29 j 22:55	16°♁28'55	-4.6m
desc. node	841 Jan 25 j 23:57	14°♁01'01		retrograde	843 Sep 09 j 11:30	18°♁29'36	
	841 Feb 07 j 22:00	0°♁		evening set	843 Sep 26 j 10:21	13°♁04'51	
	841 Mar 04 j 04:15	0°♁		inferior conj	843 Sep 30 j 08:02	10°♁45'03	-7°-25'-22
	841 Mar 28 j 11:41	0°♁		minimum elong	843 Sep 30 j 17:51	10°♁30'05	7°23'43
morning set	841 Apr 04 j 18:24	8°♁58'10		min. Earth dist.	843 Oct 01 j 05:46	10°♁11'57	0.27294 AU
	841 Apr 21 j 20:36	0°♁		morning rise	843 Oct 05 j 00:53	7°♁56'46	
				direct	843 Oct 21 j 04:06	2°♁52'00	
superior conj	841 May 11 j 22:24	24°♁40'11	0°-16'-59	greatest brilliancy	843 Nov 04 j 01:17	6°♁23'59	-4.7m
minimum elong	841 May 12 j 01:54	24°♁50'55	0°16'51	asc. node	843 Nov 03 j 22:09	6°♁20'16	
max. Earth dist.	841 May 12 j 07:45	25°♁08'53	1.73572 AU		843 Dec 04 j 14:04	0°♁	
	841 May 16 j 06:34	0°♁		morning max el	843 Dec 10 j 23:40	6°♁22'57	46°56'42
asc. node	841 May 19 j 03:17	3°♁30'59			844 Jan 01 j 21:07	0°♁	
	841 Jun 09 j 16:47	0°♁			844 Jan 27 j 21:08	0°♁	
evening rise	841 Jun 17 j 03:33	9°♁08'54			844 Feb 22 j 02:29	0°♁	
	841 Jul 04 j 02:50	0°♁		desc. node	844 Feb 23 j 11:46	1°♁39'50	
	841 Jul 28 j 13:12	0°♁			844 Mar 18 j 00:12	0°♁	
	841 Aug 22 j 01:08	0°♁			844 Apr 11 j 18:32	0°♁	
desc. node	841 Sep 07 j 16:43	20°♁18'12			844 May 06 j 10:59	0°♁	
	841 Sep 15 j 16:15	0°♁			844 May 31 j 01:32	0°♁	
	841 Oct 10 j 12:36	0°♁		morning set	844 Jun 11 j 20:52	14°♁26'15	
	841 Nov 04 j 18:49	0°♁		asc. node	844 Jun 15 j 15:13	19°♁03'01	
	841 Dec 01 j 00:31	0°♁			844 Jun 24 j 13:21	0°♁	
evening max el	841 Dec 17 j 07:59	17°♁24'22	47°12'01	max. Earth dist.	844 Jul 15 j 00:44	25°♁12'42	1.73174 AU
asc. node	841 Dec 29 j 20:00	29°♁33'57					
	841 Dec 30 j 07:25	0°♁		superior conj	844 Jul 18 j 04:22	29°♁06'16	1°07'03
greatest brilliancy	842 Jan 23 j 14:15	17°♁37'11	-4.6m	minimum elong	844 Jul 17 j 19:51	28°♁39'58	1°06'48
retrograde	842 Feb 06 j 05:02	21°♁03'02			844 Jul 18 j 21:46	0°♁	
evening set	842 Feb 24 j 04:26	14°♁47'45			844 Aug 12 j 03:03	0°♁	
min. Earth dist.	842 Feb 26 j 19:14	13°♁09'24	0.28130 AU	evening rise	844 Aug 23 j 10:31	14°♁03'00	

	844 Sep 05 j 06:27	0°♁		desc. node	847 Mar 22 j 23:37	21°≈31'37	
	844 Sep 29 j 09:26	0°♁			847 Mar 30 j 13:32	0°♁	
desc. node	844 Oct 05 j 04:33	7°♁12'10			847 Apr 25 j 17:12	0°♁	
	844 Oct 23 j 13:11	0°♁			847 May 21 j 05:56	0°♁	
	844 Nov 16 j 18:52	0°♁			847 Jun 15 j 09:23	0°♁	
	844 Dec 11 j 05:03	0°≈			847 Jul 10 j 04:53	0°♁	
	845 Jan 05 j 01:43	0°♁		asc. node	847 Jul 14 j 03:00	4°♁46'42	
asc. node	845 Jan 26 j 07:48	24°♁48'21			847 Aug 03 j 16:46	0°♁	
	845 Jan 30 j 21:54	0°♁		morning set	847 Aug 20 j 00:04	20°♁09'57	
evening max el	845 Feb 26 j 15:31	28°♁29'10	46°04'53		847 Aug 27 j 22:00	0°♁	
	845 Feb 28 j 04:31	0°♁			847 Sep 20 j 22:35	0°♁	
greatest brilliancy	845 Apr 02 j 05:00	25°♁45'34	-4.5m	max. Earth dist.	847 Sep 23 j 13:28	3°♁16'51	1.71694 AU
retrograde	845 Apr 17 j 01:24	29°♁38'33					
evening set	845 May 02 j 10:59	25°♁00'41		superior conj	847 Sep 26 j 11:36	6°♁56'31	1°13'26
inferior conj	845 May 08 j 11:08	21°♁22'39	2°11'27	minimum elong	847 Sep 26 j 20:26	7°♁24'11	1°13'13
minimum elong	845 May 08 j 15:48	21°♁15'19	2°10'07		847 Oct 14 j 20:49	0°♁	
min. Earth dist.	845 May 08 j 13:59	21°♁18'11	0.28924 AU	desc. node	847 Nov 02 j 16:32	23°♁37'31	
morning rise	845 May 14 j 20:48	17°♁31'42		evening rise	847 Nov 05 j 10:25	27°♁04'14	
desc. node	845 May 17 j 21:10	15°♁59'39			847 Nov 07 j 18:26	0°♁	
direct	845 May 30 j 00:58	13°♁04'56			847 Dec 01 j 16:31	0°♁	
greatest brilliancy	845 Jun 12 j 09:16	16°♁12'10	-4.5m		847 Dec 25 j 16:15	0°≈	
	845 Jul 03 j 11:16	0°♁			848 Jan 18 j 19:55	0°♁	
morning max el	845 Jul 17 j 21:31	12°♁53'53	45°48'05		848 Feb 12 j 07:20	0°♁	
	845 Aug 03 j 20:15	0°♁		asc. node	848 Feb 23 j 19:44	13°♁54'18	
	845 Aug 30 j 23:31	0°♁			848 Mar 08 j 08:20	0°♁	
asc. node	845 Sep 08 j 00:42	9°♁19'22			848 Apr 03 j 08:58	0°♁	
	845 Sep 25 j 11:30	0°♁			848 May 01 j 10:07	0°♁	
	845 Oct 20 j 02:36	0°♁		evening max el	848 May 08 j 06:13	6°♁42'50	45°20'31
	845 Nov 13 j 06:39	0°♁			848 Jun 06 j 05:49	0°♁	
	845 Dec 07 j 05:54	0°♁		greatest brilliancy	848 Jun 12 j 10:17	3°♁11'00	-4.5m
desc. node	845 Dec 28 j 14:08	26°♁45'59		desc. node	848 Jun 14 j 09:11	3°♁59'17	
	845 Dec 31 j 04:00	0°♁		retrograde	848 Jun 25 j 17:29	6°♁16'41	
morning set	846 Jan 18 j 13:39	23°♁03'30		evening set	848 Jul 11 j 23:02	1°♁19'18	
	846 Jan 24 j 02:46	0°≈			848 Jul 14 j 05:11	30°♁	
	846 Feb 17 j 03:18	0°♁		inferior conj	848 Jul 17 j 04:19	28°♁10'33	-6°-44'-27
				minimum elong	848 Jul 16 j 18:29	28°♁25'51	6°42'39
superior conj	846 Feb 28 j 03:58	13°♁43'40	-1°-24'-52	min. Earth dist.	848 Jul 17 j 07:52	28°♁05'02	0.28812 AU
minimum elong	846 Feb 28 j 06:58	13°♁52'59	1°24'51	morning rise	848 Jul 21 j 13:39	25°♁29'37	
max. Earth dist.	846 Mar 04 j 01:17	18°♁33'39	1.72345 AU	direct	848 Aug 07 j 18:37	19°♁55'35	
	846 Mar 13 j 06:31	0°♁		greatest brilliancy	848 Aug 22 j 02:51	23°♁31'38	-4.5m
	846 Apr 06 j 13:10	0°♁			848 Sep 01 j 23:10	0°♁	
evening rise	846 Apr 08 j 00:22	1°♁48'24		morning max el	848 Sep 26 j 12:49	21°♁20'47	46°24'09
asc. node	846 Apr 20 j 17:32	17°♁26'08			848 Oct 04 j 23:57	0°♁	
	846 Apr 30 j 23:34	0°♁		asc. node	848 Oct 05 j 12:29	0°♁32'56	
	846 May 25 j 13:52	0°♁			848 Oct 31 j 23:54	0°♁	
	846 Jun 19 j 08:46	0°♁			848 Nov 26 j 06:32	0°♁	
	846 Jul 14 j 10:17	0°♁			848 Dec 20 j 20:30	0°♁	
	846 Aug 08 j 22:35	0°♁			849 Jan 14 j 04:01	0°♁	
desc. node	846 Aug 10 j 06:44	1°♁33'15		desc. node	849 Jan 25 j 01:54	13°♁30'13	
	846 Sep 04 j 06:04	0°♁			849 Feb 07 j 09:41	0°≈	
	846 Oct 02 j 08:43	0°♁			849 Mar 03 j 15:37	0°♁	
evening max el	846 Oct 03 j 20:13	1°♁28'46	47°04'34		849 Mar 27 j 22:49	0°♁	
	846 Nov 08 j 02:52	0°♁		morning set	849 Apr 02 j 10:28	6°♁45'42	
greatest brilliancy	846 Nov 11 j 13:26	1°♁35'45	-4.7m		849 Apr 21 j 07:33	0°♁	
retrograde	846 Nov 23 j 07:50	4°♁10'24					
asc. node	846 Dec 01 j 10:13	2°♁48'56		superior conj	849 May 09 j 16:16	22°♁34'19	0°-20'-6
evening set	846 Dec 07 j 16:42	0°♁01'50		minimum elong	849 May 09 j 20:23	22°♁46'59	0°19'55
	846 Dec 07 j 18:04	30°♁		max. Earth dist.	849 May 10 j 03:38	23°♁09'13	1.73553 AU
min. Earth dist.	846 Dec 13 j 05:43	26°♁46'57	0.26466 AU		849 May 15 j 17:25	0°♁	
inferior conj	846 Dec 13 j 20:00	26°♁25'04	3°09'31	asc. node	849 May 18 j 05:29	3°♁04'24	
minimum elong	846 Dec 13 j 13:13	26°♁35'28	3°07'26		849 Jun 09 j 03:40	0°♁	
morning rise	846 Dec 19 j 10:13	23°♁07'39		evening rise	849 Jun 14 j 22:47	7°♁07'05	
direct	847 Jan 03 j 04:32	18°♁48'47			849 Jul 03 j 13:53	0°♁	
greatest brilliancy	847 Jan 14 j 08:21	21°♁09'30	-4.7m		849 Jul 28 j 00:34	0°♁	
	847 Jan 29 j 10:09	0°♁			849 Aug 21 j 12:58	0°♁	
morning max el	847 Feb 22 j 05:52	21°♁04'33	46°35'02	desc. node	849 Sep 06 j 18:42	19°♁47'05	
	847 Mar 03 j 00:34	0°≈			849 Sep 15 j 04:43	0°♁	

	849 Oct 10 j 02:00	0°♁		morning set	852 Jun 09 j 15:17	12°♁22'39	
	849 Nov 04 j 09:47	0°♁		asc. node	852 Jun 14 j 17:14	18°♁36'12	
	849 Nov 30 j 18:45	0°♁			852 Jun 24 j 00:05	0°♁	
evening max el	849 Dec 14 j 21:38	14°♁59'51	47°13'31	max. Earth dist.	852 Jul 12 j 21:38	23°♁16'04	1.73208 AU
asc. node	849 Dec 28 j 22:01	28°♁32'40					
	849 Dec 30 j 13:15	0°♁		superior conj	852 Jul 15 j 22:48	27°♁01'52	1°05'06
greatest brilliancy	850 Jan 21 j 06:26	15°♁18'49	-4.6m	minimum elong	852 Jul 15 j 14:10	26°♁35'12	1°04'49
retrograde	850 Feb 03 j 20:06	18°♁44'20			852 Jul 18 j 08:28	0°♁	
evening set	850 Feb 21 j 19:56	12°♁28'32			852 Aug 11 j 13:50	0°♁	
min. Earth dist.	850 Feb 24 j 09:33	10°♁52'16	0.28079 AU	evening rise	852 Aug 21 j 03:22	11°♁52'32	
inferior conj	850 Feb 24 j 22:12	10°♁32'15	8°40'24		852 Sep 04 j 17:24	0°♁	
minimum elong	850 Feb 25 j 00:01	10°♁29'24	8°40'21		852 Sep 28 j 20:39	0°♁	
morning rise	850 Feb 28 j 04:15	8°♁30'28		desc. node	852 Oct 04 j 06:45	6°♁43'56	
direct	850 Mar 17 j 20:22	2°♁30'02			852 Oct 23 j 00:45	0°♁	
greatest brilliancy	850 Mar 28 j 23:47	4°♁45'13	-4.5m		852 Nov 16 j 06:53	0°♁	
desc. node	850 Apr 19 j 11:23	18°♁12'10			852 Dec 10 j 17:42	0°♁	
	850 May 02 j 21:51	0°♁			853 Jan 04 j 15:23	0°♁	
morning max el	850 May 05 j 21:06	2°♁49'08	45°53'57	asc. node	853 Jan 25 j 09:49	24°♁10'24	
	850 Jun 01 j 07:10	0°♁			853 Jan 30 j 13:48	0°♁	
	850 Jun 28 j 04:35	0°♁		evening max el	853 Feb 24 j 07:52	26°♁17'26	46°07'24
	850 Jul 23 j 22:50	0°♁			853 Feb 28 j 03:14	0°♁	
asc. node	850 Aug 10 j 14:51	21°♁06'18		greatest brilliancy	853 Mar 30 j 22:49	23°♁38'01	-4.5m
	850 Aug 17 j 23:21	0°♁		retrograde	853 Apr 14 j 18:13	27°♁29'28	
	850 Sep 11 j 10:55	0°♁		evening set	853 Apr 30 j 05:17	22°♁49'24	
	850 Oct 05 j 13:40	0°♁		inferior conj	853 May 06 j 03:34	19°♁13'29	2°30'34
	850 Oct 29 j 11:30	0°♁		minimum elong	853 May 06 j 08:52	19°♁05'10	2°29'04
morning set	850 Oct 30 j 23:34	1°♁53'24		min. Earth dist.	853 May 06 j 06:11	19°♁09'23	0.28911 AU
	850 Nov 22 j 07:27	0°♁		morning rise	853 May 12 j 12:43	15°♁23'11	
desc. node	850 Nov 30 j 04:23	9°♁54'43		desc. node	853 May 16 j 23:16	13°♁13'28	
				direct	853 May 27 j 17:43	10°♁56'10	
superior conj	850 Dec 11 j 03:14	23°♁42'00	0°-25'-45	greatest brilliancy	853 Jun 09 j 22:53	14°♁00'28	-4.5m
minimum elong	850 Dec 10 j 20:30	23°♁20'47	0°25'26		853 Jul 03 j 17:07	0°♁	
max. Earth dist.	850 Dec 12 j 18:19	25°♁44'57	1.71072 AU	morning max el	853 Jul 15 j 13:35	10°♁44'41	45°47'26
	850 Dec 16 j 03:25	0°♁			853 Aug 03 j 13:28	0°♁	
	851 Jan 09 j 00:35	0°♁			853 Aug 30 j 13:24	0°♁	
evening rise	851 Jan 21 j 15:56	15°♁49'53		asc. node	853 Sep 07 j 02:47	8°♁46'30	
	851 Feb 02 j 00:11	0°♁			853 Sep 24 j 23:58	0°♁	
	851 Feb 26 j 03:54	0°♁			853 Oct 19 j 14:23	0°♁	
	851 Mar 22 j 13:46	0°♁			853 Nov 12 j 18:05	0°♁	
asc. node	851 Mar 23 j 07:44	0°♁54'49			853 Dec 06 j 17:10	0°♁	
	851 Apr 16 j 08:06	0°♁		desc. node	853 Dec 27 j 16:06	26°♁17'15	
	851 May 11 j 14:07	0°♁			853 Dec 30 j 15:08	0°♁	
	851 Jun 06 j 14:17	0°♁		morning set	854 Jan 15 j 23:42	20°♁30'13	
	851 Jul 04 j 01:14	0°♁			854 Jan 23 j 13:47	0°♁	
desc. node	851 Jul 12 j 20:56	9°♁02'39			854 Feb 16 j 14:12	0°♁	
evening max el	851 Jul 19 j 21:55	15°♁57'03	45°51'01				
	851 Aug 04 j 16:12	0°♁		superior conj	854 Feb 25 j 16:52	11°♁20'43	-1°-25'-18
greatest brilliancy	851 Aug 27 j 09:08	14°♁04'56	-4.6m	minimum elong	854 Feb 25 j 18:57	11°♁27'11	1°25'18
retrograde	851 Sep 07 j 00:48	16°♁07'53		max. Earth dist.	854 Mar 01 j 17:40	16°♁21'42	1.72288 AU
evening set	851 Sep 24 j 02:27	10°♁38'09			854 Mar 12 j 17:20	0°♁	
inferior conj	851 Sep 27 j 21:16	8°♁22'18	-7°-37'-4	evening rise	854 Apr 05 j 15:46	29°♁34'48	
minimum elong	851 Sep 28 j 06:42	8°♁07'57	7°35'35		854 Apr 05 j 23:57	0°♁	
min. Earth dist.	851 Sep 28 j 18:39	7°♁49'46	0.27366 AU	asc. node	854 Apr 19 j 19:40	16°♁59'32	
morning rise	851 Oct 02 j 10:33	5°♁39'14			854 Apr 30 j 10:26	0°♁	
direct	851 Oct 18 j 18:45	0°♁28'17			854 May 25 j 00:59	0°♁	
greatest brilliancy	851 Nov 01 j 16:49	4°♁01'57	-4.7m		854 Jun 18 j 20:20	0°♁	
asc. node	851 Nov 03 j 00:21	4°♁41'06			854 Jul 13 j 22:39	0°♁	
	851 Dec 04 j 14:56	0°♁			854 Aug 08 j 12:20	0°♁	
morning max el	851 Dec 08 j 14:49	4°♁01'21	46°56'22	desc. node	854 Aug 09 j 08:47	0°♁59'12	
	852 Jan 01 j 14:13	0°♁			854 Sep 03 j 22:26	0°♁	
	852 Jan 27 j 11:30	0°♁		evening max el	854 Oct 01 j 09:53	29°♁05'36	47°02'34
	852 Feb 21 j 15:27	0°♁			854 Oct 02 j 07:50	0°♁	
desc. node	852 Feb 22 j 13:51	1°♁07'17		greatest brilliancy	854 Nov 09 j 04:43	29°♁10'25	-4.7m
	852 Mar 17 j 12:18	0°♁			854 Nov 11 j 09:06	0°♁	
	852 Apr 11 j 06:02	0°♁		retrograde	854 Nov 20 j 19:53	1°♁41'37	
	852 May 05 j 22:06	0°♁			854 Nov 29 j 22:00	30°♁	
	852 May 30 j 12:24	0°♁		asc. node	854 Nov 30 j 12:07	29°♁46'35	

evening set	854 Dec 05 j 04:12	27°♁35'17		max. Earth dist.	857 May 07 j 22:52	21°♁08'21	1.73537 AU
min. Earth dist.	854 Dec 10 j 19:44	24°♁16'52	0.26440 AU		857 May 15 j 04:00	0°♁	
inferior conj	854 Dec 11 j 08:26	23°♁57'25	2°46'33	asc. node	857 May 17 j 07:27	2°♁37'57	
minimum elong	854 Dec 11 j 02:23	24°♁06'41	2°44'40		857 Jun 08 j 14:17	0°♁	
morning rise	854 Dec 17 j 00:56	20°♁36'39		evening rise	857 Jun 12 j 17:44	5°♁05'15	
direct	854 Dec 31 j 16:42	16°♁21'29			857 Jul 03 j 00:40	0°♁	
greatest brilliancy	855 Jan 11 j 22:49	18°♁44'07	-4.7m		857 Jul 27 j 11:38	0°♁	
	855 Jan 30 j 03:17	0°♁			857 Aug 21 j 00:30	0°♁	
morning max el	855 Feb 19 j 17:54	18°♁38'04	46°36'21	desc. node	857 Sep 05 j 20:51	19°♁17'24	
	855 Mar 02 j 20:21	0°♁			857 Sep 14 j 16:55	0°♁	
desc. node	855 Mar 22 j 01:46	20°♁52'48			857 Oct 09 j 15:11	0°♁	
	855 Mar 30 j 04:40	0°♁			857 Nov 04 j 00:36	0°♁	
	855 Apr 25 j 06:20	0°♁			857 Nov 30 j 13:06	0°♁	
	855 May 20 j 17:57	0°♁		evening max el	857 Dec 12 j 12:05	12°♁38'20	47°15'01
	855 Jun 14 j 20:44	0°♁		asc. node	857 Dec 28 j 00:04	27°♁30'59	
	855 Jul 09 j 15:50	0°♁			857 Dec 30 j 20:53	0°♁	
asc. node	855 Jul 13 j 05:01	4°♁19'33		greatest brilliancy	858 Jan 18 j 21:58	13°♁00'36	-4.6m
	855 Aug 03 j 03:31	0°♁		retrograde	858 Feb 01 j 11:44	16°♁26'39	
morning set	855 Aug 17 j 16:28	17°♁58'43		evening set	858 Feb 19 j 11:01	10°♁10'45	
	855 Aug 27 j 08:41	0°♁		min. Earth dist.	858 Feb 21 j 23:28	8°♁36'32	0.28028 AU
	855 Sep 20 j 09:19	0°♁		inferior conj	858 Feb 22 j 13:11	8°♁14'53	8°42'22
max. Earth dist.	855 Sep 21 j 01:00	0°♁49'04	1.71744 AU	minimum elong	858 Feb 22 j 14:12	8°♁13'17	8°42'21
				morning rise	858 Feb 25 j 17:33	6°♁15'59	
superior conj	855 Sep 24 j 02:07	4°♁37'58	1°15'09	direct	858 Mar 15 j 10:32	0°♁13'22	
minimum elong	855 Sep 24 j 10:28	5°♁04'07	1°14'57	greatest brilliancy	858 Mar 26 j 13:13	2°♁28'16	-4.5m
	855 Oct 14 j 07:39	0°♁		desc. node	858 Apr 18 j 13:28	17°♁09'34	
desc. node	855 Nov 01 j 18:38	23°♁09'53			858 May 02 j 21:12	0°♁	
evening rise	855 Nov 02 j 21:37	24°♁34'33		morning max el	858 May 03 j 12:43	0°♁37'09	45°54'58
	855 Nov 07 j 05:21	0°♁			858 May 31 j 23:05	0°♁	
	855 Dec 01 j 03:33	0°♁			858 Jun 27 j 17:55	0°♁	
	855 Dec 25 j 03:28	0°♁			858 Jul 23 j 10:56	0°♁	
	856 Jan 18 j 07:24	0°♁		asc. node	858 Aug 09 j 17:00	20°♁37'42	
	856 Feb 11 j 19:18	0°♁			858 Aug 17 j 10:49	0°♁	
asc. node	856 Feb 22 j 21:50	13°♁23'47			858 Sep 10 j 22:03	0°♁	
	856 Mar 07 j 21:13	0°♁			858 Oct 05 j 00:39	0°♁	
	856 Apr 02 j 23:46	0°♁		morning set	858 Oct 28 j 11:43	29°♁26'18	
	856 May 01 j 06:11	0°♁			858 Oct 28 j 22:26	0°♁	
evening max el	856 May 05 j 20:41	4°♁29'24	45°20'57		858 Nov 21 j 18:23	0°♁	
	856 Jun 07 j 21:36	0°♁		desc. node	858 Nov 29 j 06:19	9°♁26'19	
greatest brilliancy	856 Jun 09 j 22:58	0°♁57'50	-4.5m				
desc. node	856 Jun 13 j 11:08	2°♁20'43		superior conj	858 Dec 08 j 12:38	21°♁06'00	0°-21'-51
retrograde	856 Jun 23 j 09:04	4°♁07'17		minimum elong	858 Dec 08 j 06:50	20°♁47'47	0°21'36
	856 Jul 08 j 01:45	30°♁		max. Earth dist.	858 Dec 10 j 01:52	23°♁03'12	1.71062 AU
evening set	856 Jul 09 j 11:53	29°♁13'23			858 Dec 15 j 14:22	0°♁	
inferior conj	856 Jul 14 j 20:14	26°♁00'32	-6°-31'-23		859 Jan 08 j 11:33	0°♁	
minimum elong	856 Jul 14 j 10:18	26°♁15'59	6°29'29	evening rise	859 Jan 19 j 02:33	13°♁18'43	
min. Earth dist.	856 Jul 14 j 23:32	25°♁55'24	0.28835 AU		859 Feb 01 j 11:10	0°♁	
morning rise	856 Jul 19 j 08:23	23°♁15'32			859 Feb 25 j 14:56	0°♁	
direct	856 Aug 05 j 10:16	17°♁45'01			859 Mar 22 j 01:01	0°♁	
greatest brilliancy	856 Aug 19 j 19:55	21°♁22'07	-4.5m	asc. node	859 Mar 22 j 09:51	0°♁26'57	
	856 Sep 02 j 15:17	0°♁			859 Apr 15 j 19:48	0°♁	
morning max el	856 Sep 24 j 03:30	19°♁04'07	46°22'40		859 May 11 j 02:44	0°♁	
asc. node	856 Oct 04 j 14:38	29°♁48'58			859 Jun 06 j 04:41	0°♁	
	856 Oct 04 j 18:48	0°♁			859 Jul 03 j 19:47	0°♁	
	856 Oct 31 j 14:39	0°♁		desc. node	859 Jul 11 j 23:03	8°♁15'50	
	856 Nov 25 j 19:37	0°♁		evening max el	859 Jul 17 j 12:41	13°♁41'51	45°48'52
	856 Dec 20 j 08:42	0°♁			859 Aug 05 j 03:56	0°♁	
	857 Jan 13 j 15:39	0°♁		greatest brilliancy	859 Aug 24 j 20:24	11°♁42'35	-4.6m
desc. node	857 Jan 24 j 04:00	13°♁01'13		retrograde	859 Sep 04 j 14:00	13°♁46'35	
	857 Feb 06 j 20:56	0°♁		evening set	859 Sep 21 j 18:36	8°♁12'23	
	857 Mar 03 j 02:37	0°♁		inferior conj	859 Sep 25 j 10:36	6°♁00'16	-7°-47'-54
	857 Mar 27 j 09:37	0°♁		minimum elong	859 Sep 25 j 19:35	5°♁46'34	7°46'35
morning set	857 Mar 31 j 02:18	4°♁33'26		min. Earth dist.	859 Sep 26 j 07:31	5°♁28'22	0.27432 AU
	857 Apr 20 j 18:12	0°♁		morning rise	859 Sep 29 j 20:15	3°♁22'15	
					859 Oct 06 j 17:03	30°♁	
superior conj	857 May 07 j 09:50	20°♁28'20	0°-23'-13	direct	859 Oct 16 j 09:29	28°♁05'31	
minimum elong	857 May 07 j 14:34	20°♁42'51	0°23'00		859 Oct 26 j 09:45	0°♁	

greatest brilliancy	859 Oct 30 j 07:14	1°♁39'04	-4.6m		862 Jun 18 j 08:09	0°♁	
asc. node	859 Nov 02 j 02:18	3°♁05'41			862 Jul 13 j 11:19	0°♁	
	859 Dec 04 j 14:30	0°♁			862 Aug 08 j 02:29	0°♁	
morning max el	859 Dec 06 j 05:17	1°♁38'31	46°55'51	desc. node	862 Aug 08 j 10:55	0°♁24'21	
	860 Jan 01 j 06:53	0°♁			862 Sep 03 j 15:29	0°♁	
	860 Jan 27 j 01:39	0°♁		evening max el	862 Sep 28 j 22:25	26°♁38'26	47°00'22
	860 Feb 21 j 04:17	0°♁			862 Oct 02 j 08:35	0°♁	
desc. node	860 Feb 21 j 15:56	0°♁35'04		greatest brilliancy	862 Nov 06 j 19:54	26°♁43'06	-4.7m
	860 Mar 17 j 00:18	0°♁		retrograde	862 Nov 18 j 07:32	29°♁10'59	
	860 Apr 10 j 17:28	0°♁		asc. node	862 Nov 29 j 14:13	26°♁36'24	
	860 May 05 j 09:08	0°♁		evening set	862 Dec 02 j 15:38	25°♁06'12	
	860 May 29 j 23:13	0°♁		min. Earth dist.	862 Dec 08 j 09:43	21°♁44'29	0.26417 AU
morning set	860 Jun 07 j 09:43	10°♁19'15		inferior conj	862 Dec 08 j 20:36	21°♁27'50	2°22'58
asc. node	860 Jun 13 j 19:16	18°♁09'29		minimum elong	862 Dec 08 j 15:20	21°♁35'54	2°21'19
	860 Jun 23 j 10:49	0°♁		morning rise	862 Dec 14 j 15:16	18°♁04'01	
max. Earth dist.	860 Jul 10 j 17:01	21°♁14'44	1.73247 AU	direct	862 Dec 29 j 04:10	13°♁52'01	
				greatest brilliancy	863 Jan 09 j 13:48	16°♁17'42	-4.7m
superior conj	860 Jul 13 j 17:09	24°♁57'16	1°03'02		863 Jan 30 j 16:40	0°♁	
minimum elong	860 Jul 13 j 08:27	24°♁30'25	1°02'45	morning max el	863 Feb 17 j 05:48	16°♁10'01	46°37'50
	860 Jul 17 j 19:13	0°♁			863 Mar 02 j 15:55	0°♁	
	860 Aug 11 j 00:41	0°♁		desc. node	863 Mar 21 j 03:50	20°♁13'16	
evening rise	860 Aug 18 j 20:05	9°♁41'29			863 Mar 29 j 19:55	0°♁	
	860 Sep 04 j 04:26	0°♁			863 Apr 24 j 19:39	0°♁	
	860 Sep 28 j 07:57	0°♁			863 May 20 j 06:14	0°♁	
desc. node	860 Oct 03 j 08:45	6°♁14'55			863 Jun 14 j 08:22	0°♁	
	860 Oct 22 j 12:24	0°♁			863 Jul 09 j 03:05	0°♁	
	860 Nov 15 j 18:59	0°♁		asc. node	863 Jul 12 j 07:13	3°♁52'02	
	860 Dec 10 j 06:25	0°♁			863 Aug 02 j 14:33	0°♁	
	861 Jan 04 j 05:14	0°♁		morning set	863 Aug 15 j 09:07	15°♁47'22	
asc. node	861 Jan 24 j 11:58	23°♁32'16			863 Aug 26 j 19:41	0°♁	
	861 Jan 30 j 06:04	0°♁		max. Earth dist.	863 Sep 18 j 15:24	28°♁29'19	1.71798 AU
evening max el	861 Feb 21 j 23:37	24°♁03'42	46°09'51		863 Sep 19 j 20:23	0°♁	
	861 Feb 28 j 03:04	0°♁					
greatest brilliancy	861 Mar 28 j 17:20	21°♁30'55	-4.5m	superior conj	863 Sep 21 j 16:46	2°♁18'55	1°16'43
retrograde	861 Apr 12 j 10:37	25°♁20'02		minimum elong	863 Sep 22 j 00:34	2°♁43'19	1°16'32
evening set	861 Apr 27 j 23:43	20°♁37'42			863 Oct 13 j 18:50	0°♁	
inferior conj	861 May 03 j 20:03	17°♁04'09	2°49'27	evening rise	863 Oct 31 j 08:47	22°♁03'37	
minimum elong	861 May 04 j 01:55	16°♁54'52	2°47'48	desc. node	863 Oct 31 j 20:37	22°♁40'44	
min. Earth dist.	861 May 03 j 22:39	17°♁00'02	0.28896 AU		863 Nov 06 j 16:41	0°♁	
morning rise	861 May 10 j 04:25	13°♁14'32			863 Nov 30 j 15:01	0°♁	
desc. node	861 May 16 j 01:10	10°♁31'10			863 Dec 24 j 15:07	0°♁	
direct	861 May 25 j 10:09	8°♁47'15			864 Jan 17 j 19:20	0°♁	
greatest brilliancy	861 Jun 07 j 12:19	11°♁48'15	-4.5m		864 Feb 11 j 07:42	0°♁	
	861 Jul 03 j 21:08	0°♁		asc. node	864 Feb 21 j 23:55	12°♁51'53	
morning max el	861 Jul 13 j 04:42	8°♁32'55	45°46'45		864 Mar 07 j 10:34	0°♁	
	861 Aug 03 j 06:26	0°♁			864 Apr 02 j 15:11	0°♁	
	861 Aug 30 j 03:19	0°♁			864 May 01 j 03:25	0°♁	
asc. node	861 Sep 06 j 04:53	8°♁13'16		evening max el	864 May 03 j 11:45	2°♁16'18	45°21'29
	861 Sep 24 j 12:35	0°♁		greatest brilliancy	864 Jun 07 j 11:09	28°♁43'00	-4.5m
	861 Oct 19 j 02:21	0°♁			864 Jun 10 j 15:38	0°♁	
	861 Nov 12 j 05:44	0°♁		desc. node	864 Jun 12 j 13:19	0°♁37'36	
	861 Dec 06 j 04:36	0°♁		retrograde	864 Jun 21 j 01:10	1°♁56'52	
desc. node	861 Dec 26 j 18:13	25°♁48'27			864 Jul 01 j 00:03	30°♁	
	861 Dec 30 j 02:25	0°♁		evening set	864 Jul 07 j 00:50	27°♁06'14	
morning set	862 Jan 13 j 09:34	17°♁55'46		inferior conj	864 Jul 12 j 12:08	23°♁49'24	-6°-17'-38
	862 Jan 23 j 00:56	0°♁		minimum elong	864 Jul 12 j 02:09	24°♁04'54	6°15'39
	862 Feb 16 j 01:15	0°♁		min. Earth dist.	864 Jul 12 j 14:56	23°♁45'04	0.28856 AU
				morning rise	864 Jul 17 j 03:09	21°♁00'27	
superior conj	862 Feb 23 j 05:39	8°♁56'46	-1°-25'-35	direct	864 Aug 03 j 02:12	15°♁33'25	
minimum elong	862 Feb 23 j 06:47	9°♁00'21	1°25'37	greatest brilliancy	864 Aug 17 j 12:59	19°♁11'49	-4.5m
max. Earth dist.	862 Feb 27 j 09:14	14°♁06'33	1.72231 AU		864 Sep 03 j 03:45	0°♁	
	862 Mar 12 j 04:20	0°♁		morning max el	864 Sep 21 j 19:05	16°♁48'55	46°21'14
evening rise	862 Apr 03 j 07:00	27°♁19'55		asc. node	864 Oct 03 j 16:37	29°♁04'09	
	862 Apr 05 j 10:58	0°♁			864 Oct 04 j 13:32	0°♁	
asc. node	862 Apr 18 j 21:39	16°♁31'45			864 Oct 31 j 05:35	0°♁	
	862 Apr 29 j 21:33	0°♁			864 Nov 25 j 09:00	0°♁	
	862 May 24 j 12:20	0°♁			864 Dec 19 j 21:16	0°♁	

	865 Jan 13 j 03:43	0°☾		evening max el	867 Jul 15 j 03:11	11°☾25'18	45°46'40
desc. node	865 Jan 23 j 06:09	12°☾30'58			867 Aug 05 j 20:02	0°♌	
	865 Feb 06 j 08:39	0°♌		greatest brilliancy	867 Aug 22 j 08:44	9°♌20'53	-4.5m
	865 Mar 02 j 14:02	0°♌		retrograde	867 Sep 02 j 02:46	11°♌24'48	
	865 Mar 26 j 20:48	0°♌		evening set	867 Sep 19 j 10:41	5°♌46'34	
morning set	865 Mar 28 j 17:44	2°♌18'37		inferior conj	867 Sep 23 j 00:02	3°♌37'59	-7°-57'-48
	865 Apr 20 j 05:14	0°♌		minimum elong	867 Sep 23 j 08:29	3°♌25'04	7°56'41
				min. Earth dist.	867 Sep 23 j 20:46	3°♌06'17	0.27495 AU
superior conj	865 May 05 j 03:10	18°♌20'25	0°-26'-19	morning rise	867 Sep 27 j 05:58	1°♌04'55	
minimum elong	865 May 05 j 08:30	18°♌36'48	0°26'05		867 Sep 29 j 04:25	30°♌	
max. Earth dist.	865 May 05 j 19:33	19°♌10'45	1.73519 AU	direct	867 Oct 13 j 23:52	25°♌42'29	
	865 May 14 j 14:58	0°♌		greatest brilliancy	867 Oct 27 j 21:26	29°♌15'24	-4.6m
asc. node	865 May 16 j 09:30	2°♌10'36			867 Oct 29 j 09:09	0°♌	
	865 Jun 08 j 01:18	0°♌		asc. node	867 Nov 01 j 04:22	1°♌33'07	
evening rise	865 Jun 10 j 12:43	3°♌02'20		morning max el	867 Dec 03 j 18:52	29°♌12'56	46°55'31
	865 Jul 02 j 11:51	0°♌			867 Dec 04 j 13:15	0°♌	
	865 Jul 26 j 23:08	0°♌			867 Dec 31 j 23:22	0°♌	
	865 Aug 20 j 12:27	0°♌			868 Jan 26 j 15:46	0°♌	
desc. node	865 Sep 04 j 22:54	18°♌46'14			868 Feb 20 j 17:09	0°♌	
	865 Sep 14 j 05:31	0°♌		desc. node	868 Feb 20 j 17:58	0°♌02'27	
	865 Oct 09 j 04:47	0°♌			868 Mar 16 j 12:24	0°♌	
	865 Nov 03 j 15:59	0°♌			868 Apr 10 j 05:02	0°♌	
	865 Nov 30 j 08:22	0°♌			868 May 04 j 20:21	0°♌	
evening max el	865 Dec 10 j 03:24	10°♌17'42	47°16'13		868 May 29 j 10:12	0°♌	
asc. node	865 Dec 27 j 02:13	26°♌26'25		morning set	868 Jun 05 j 04:00	8°♌14'55	
	865 Dec 31 j 08:07	0°♌		asc. node	868 Jun 12 j 21:27	17°♌42'49	
greatest brilliancy	866 Jan 16 j 13:30	10°♌40'26	-4.6m		868 Jun 22 j 21:40	0°♌	
retrograde	866 Jan 30 j 03:31	14°♌06'29		max. Earth dist.	868 Jul 08 j 11:48	19°♌11'19	1.73283 AU
evening set	866 Feb 17 j 01:27	7°♌51'16					
min. Earth dist.	866 Feb 19 j 12:51	6°♌18'47	0.27974 AU	superior conj	868 Jul 11 j 11:29	22°♌52'18	1°00'53
inferior conj	866 Feb 20 j 03:55	5°♌55'06	8°43'27	minimum elong	868 Jul 11 j 02:46	22°♌25'24	1°00'36
minimum elong	866 Feb 20 j 04:06	5°♌54'49	8°43'28		868 Jul 17 j 06:04	0°♌	
morning rise	866 Feb 23 j 06:56	3°♌58'30			868 Aug 10 j 11:38	0°♌	
	866 Mar 02 j 21:52	30°♌		evening rise	868 Aug 16 j 12:57	7°♌30'40	
direct	866 Mar 13 j 00:58	27°♌54'32			868 Sep 03 j 15:36	0°♌	
	866 Mar 23 j 16:55	0°♌			868 Sep 27 j 19:25	0°♌	
greatest brilliancy	866 Mar 24 j 01:36	0°♌08'11	-4.5m	desc. node	868 Oct 02 j 10:45	5°♌45'25	
desc. node	866 Apr 17 j 15:27	16°♌06'44			868 Oct 22 j 00:12	0°♌	
morning max el	866 May 01 j 04:23	28°♌23'55	45°56'02		868 Nov 15 j 07:12	0°♌	
	866 May 02 j 20:08	0°♌			868 Dec 09 j 19:14	0°♌	
	866 May 31 j 15:09	0°♌			869 Jan 03 j 19:10	0°♌	
	866 Jun 27 j 07:30	0°♌		asc. node	869 Jan 23 j 14:00	22°♌53'37	
	866 Jul 22 j 23:19	0°♌			869 Jan 29 j 22:33	0°♌	
asc. node	866 Aug 08 j 19:00	20°♌07'44		evening max el	869 Feb 19 j 14:27	21°♌47'45	46°12'13
	866 Aug 16 j 22:35	0°♌			869 Feb 28 j 04:01	0°♌	
	866 Sep 10 j 09:29	0°♌		greatest brilliancy	869 Mar 26 j 11:18	19°♌23'07	-4.5m
	866 Oct 04 j 11:56	0°♌		retrograde	869 Apr 10 j 02:52	23°♌10'53	
morning set	866 Oct 26 j 00:25	27°♌00'08		evening set	869 Apr 25 j 18:20	18°♌25'56	
	866 Oct 28 j 09:38	0°♌		inferior conj	869 May 01 j 12:40	14°♌55'04	3°07'58
	866 Nov 21 j 05:34	0°♌		minimum elong	869 May 01 j 19:06	14°♌44'55	3°06'13
desc. node	866 Nov 28 j 08:29	8°♌57'58		min. Earth dist.	869 May 01 j 15:33	14°♌50'31	0.28884 AU
				morning rise	869 May 07 j 20:05	11°♌06'20	
superior conj	866 Dec 05 j 22:25	18°♌30'31	0°-17'-57	desc. node	869 May 15 j 03:22	7°♌53'06	
minimum elong	866 Dec 05 j 17:37	18°♌15'25	0°17'45	direct	869 May 23 j 02:10	6°♌38'26	
max. Earth dist.	866 Dec 07 j 11:03	20°♌25'46	1.71052 AU	greatest brilliancy	869 Jun 05 j 02:47	9°♌37'12	-4.5m
	866 Dec 15 j 01:34	0°♌			869 Jul 03 j 23:33	0°♌	
	867 Jan 07 j 22:47	0°♌		morning max el	869 Jul 10 j 19:36	6°♌20'28	45°46'11
evening rise	867 Jan 16 j 13:12	10°♌46'41			869 Aug 02 j 23:05	0°♌	
	867 Jan 31 j 22:26	0°♌			869 Aug 29 j 17:05	0°♌	
	867 Feb 25 j 02:18	0°♌		asc. node	869 Sep 05 j 06:54	7°♌40'04	
asc. node	867 Mar 21 j 11:48	29°♌57'32			869 Sep 24 j 01:05	0°♌	
	867 Mar 21 j 12:36	0°♌			869 Oct 18 j 14:15	0°♌	
	867 Apr 15 j 07:53	0°♌			869 Nov 11 j 17:18	0°♌	
	867 May 10 j 15:44	0°♌			869 Dec 05 j 15:59	0°♌	
	867 Jun 05 j 19:33	0°♌		desc. node	869 Dec 25 j 20:20	25°♌19'52	
	867 Jul 03 j 15:09	0°♌			869 Dec 29 j 13:37	0°♌	
desc. node	867 Jul 11 j 01:09	7°♌27'23		morning set	870 Jan 10 j 19:36	15°♌21'56	

	870 Jan 22 j 11:59	0°♊		morning rise	872 Jul 14 j 22:02	18°♋47'02	
	870 Feb 15 j 12:11	0°♋		direct	872 Jul 31 j 18:48	13°♋23'34	
				greatest brilliancy	872 Aug 15 j 05:29	17°♋02'16	-4.5m
superior conj	870 Feb 20 j 18:41	6°♋34'03	-1°-25'-43		872 Sep 03 j 12:30	0°♌	
minimum elong	870 Feb 20 j 18:54	6°♋34'42	1°25'45	morning max el	872 Sep 19 j 11:29	14°♌37'02	46°19'39
max. Earth dist.	870 Feb 24 j 23:33	11°♋47'56	1.72170 AU	asc. node	872 Oct 02 j 18:43	28°♌21'09	
	870 Mar 11 j 15:12	0°♌			872 Oct 04 j 07:28	0°♍	
evening rise	870 Mar 31 j 22:26	25°♌06'04			872 Oct 30 j 20:01	0°♎	
	870 Apr 04 j 21:50	0°♍			872 Nov 24 j 21:58	0°♏	
asc. node	870 Apr 17 j 23:45	16°♍04'49			872 Dec 19 j 09:27	0°♐	
	870 Apr 29 j 08:31	0°♎			873 Jan 12 j 15:24	0°♑	
	870 May 23 j 23:34	0°♏		desc. node	873 Jan 22 j 08:07	12°♑01'16	
	870 Jun 17 j 19:54	0°♐			873 Feb 05 j 19:59	0°♒	
	870 Jul 12 j 23:57	0°♑			873 Mar 02 j 01:06	0°♓	
	870 Aug 07 j 16:39	0°♒		morning set	873 Mar 26 j 09:09	0°♑04'39	
desc. node	870 Aug 07 j 12:55	29°♑49'16			873 Mar 26 j 07:39	0°♒	
	870 Sep 03 j 08:42	0°♓			873 Apr 19 j 15:54	0°♓	
evening max el	870 Sep 26 j 10:29	24°♓10'55	46°58'12				
	870 Oct 02 j 10:21	0°♑		superior conj	873 May 02 j 20:37	16°♑13'53	0°-29'-22
greatest brilliancy	870 Nov 04 j 10:28	24°♑15'40	-4.7m	minimum elong	873 May 03 j 02:31	16°♑32'02	0°29'07
retrograde	870 Nov 15 j 19:30	26°♑41'15		max. Earth dist.	873 May 03 j 17:45	17°♑18'52	1.73494 AU
asc. node	870 Nov 28 j 16:24	23°♑21'56			873 May 14 j 01:33	0°♒	
evening set	870 Nov 30 j 03:18	22°♑37'14		asc. node	873 May 15 j 11:41	1°♒44'49	
min. Earth dist.	870 Dec 05 j 23:42	19°♑12'44	0.26400 AU		873 Jun 07 j 11:55	0°♓	
inferior conj	870 Dec 06 j 08:48	18°♑58'50	1°59'07	evening rise	873 Jun 08 j 07:55	1°♓01'24	
minimum elong	870 Dec 06 j 04:21	19°♑05'38	1°57'42		873 Jul 01 j 22:39	0°♑	
morning rise	870 Dec 12 j 05:31	15°♑32'24			873 Jul 26 j 10:15	0°♒	
direct	870 Dec 26 j 15:41	11°♑22'50			873 Aug 20 j 00:03	0°♓	
greatest brilliancy	871 Jan 07 j 05:12	13°♑52'18	-4.7m	desc. node	873 Sep 04 j 00:54	18°♓15'50	
	871 Jan 31 j 02:25	0°♑			873 Sep 13 j 17:50	0°♑	
morning max el	871 Feb 14 j 18:49	13°♑45'14	46°39'28		873 Oct 08 j 18:11	0°♑	
	871 Mar 02 j 10:42	0°♒			873 Nov 03 j 07:14	0°♑	
desc. node	871 Mar 20 j 05:50	19°♒34'42			873 Nov 30 j 03:48	0°♒	
	871 Mar 29 j 10:41	0°♓		evening max el	873 Dec 07 j 19:17	7°♒59'29	47°17'21
	871 Apr 24 j 08:36	0°♑		asc. node	873 Dec 26 j 04:13	25°♒20'51	
	871 May 19 j 18:10	0°♑			873 Dec 31 j 22:34	0°♓	
	871 Jun 13 j 19:42	0°♒		greatest brilliancy	874 Jan 14 j 05:42	8°♓22'02	-4.6m
	871 Jul 08 j 14:04	0°♓		retrograde	874 Jan 27 j 19:10	11°♓46'49	
asc. node	871 Jul 11 j 09:13	3°♓24'42		evening set	874 Feb 14 j 15:27	5°♓33'06	
	871 Aug 02 j 01:22	0°♑		min. Earth dist.	874 Feb 17 j 02:07	4°♓01'45	0.27918 AU
morning set	871 Aug 13 j 01:55	13°♑37'17		inferior conj	874 Feb 17 j 18:33	3°♓35'55	8°43'46
	871 Aug 26 j 06:27	0°♒		minimum elong	874 Feb 17 j 17:53	3°♓36'57	8°43'46
max. Earth dist.	871 Sep 16 j 06:51	26°♒13'39	1.71849 AU	morning rise	874 Feb 20 j 20:34	1°♓40'59	
					874 Feb 23 j 18:03	30°♒	
superior conj	871 Sep 19 j 07:33	0°♓01'05	1°18'07	direct	874 Mar 10 j 15:33	25°♒36'31	
minimum elong	871 Sep 19 j 14:45	0°♓23'36	1°17'59	greatest brilliancy	874 Mar 21 j 13:04	27°♒47'47	-4.5m
	871 Sep 19 j 07:12	0°♓			874 Mar 26 j 11:01	0°♓	
	871 Oct 13 j 05:45	0°♑		desc. node	874 Apr 16 j 17:37	15°♓06'45	
evening rise	871 Oct 28 j 20:07	19°♑34'08		morning max el	874 Apr 28 j 19:46	26°♓10'56	45°57'10
desc. node	871 Oct 30 j 22:46	22°♑12'57			874 May 02 j 17:45	0°♑	
	871 Nov 06 j 03:44	0°♑			874 May 31 j 06:33	0°♑	
	871 Nov 30 j 02:15	0°♑			874 Jun 26 j 20:33	0°♒	
	871 Dec 24 j 02:32	0°♒			874 Jul 22 j 11:14	0°♓	
	872 Jan 17 j 07:02	0°♓		asc. node	874 Aug 07 j 21:03	19°♓39'17	
	872 Feb 10 j 19:53	0°♑			874 Aug 16 j 09:55	0°♑	
asc. node	872 Feb 21 j 01:55	12°♑20'30			874 Sep 09 j 20:32	0°♒	
	872 Mar 06 j 23:41	0°♑			874 Oct 03 j 22:51	0°♓	
	872 Apr 02 j 06:25	0°♒		morning set	874 Oct 23 j 13:01	24°♓34'39	
	872 May 01 j 00:54	0°♓			874 Oct 27 j 20:33	0°♑	
evening max el	872 May 01 j 03:45	0°♓06'50	45°22'08		874 Nov 20 j 16:30	0°♑	
greatest brilliancy	872 Jun 04 j 23:39	26°♓30'13	-4.5m	desc. node	874 Nov 27 j 10:35	8°♓30'11	
desc. node	872 Jun 11 j 15:22	28°♓52'14					
retrograde	872 Jun 18 j 17:39	29°♓48'05		superior conj	874 Dec 03 j 07:56	15°♓54'58	0°-14'00
evening set	872 Jul 04 j 14:11	25°♓00'41		minimum elong	874 Dec 03 j 04:11	15°♓43'10	0°13'50
inferior conj	872 Jul 10 j 04:12	21°♓39'54	-6°-3'-29	behind sun begin	874 Dec 02 j 13:47	14°♓57'51	
minimum elong	872 Jul 09 j 18:14	21°♓55'22	6°01'25	behind sun end	874 Dec 03 j 18:34	16°♓28'29	
min. Earth dist.	872 Jul 10 j 06:15	21°♓36'42	0.28877 AU	max. Earth dist.	874 Dec 04 j 17:27	17°♓40'27	1.71043 AU

	874 Dec 14 j 12:31	0°☾			877 Jul 04 j 00:33	0°♁	
	875 Jan 07 j 09:45	0°♁		morning max el	877 Jul 08 j 10:49	4°♁08'56	45°45'50
evening rise	875 Jan 13 j 23:21	8°♁13'50			877 Aug 02 j 15:20	0°♁	
	875 Jan 31 j 09:25	0°♁			877 Aug 29 j 06:35	0°♁	
	875 Feb 24 j 13:24	0°♁		asc. node	877 Sep 04 j 09:00	7°♁07'38	
asc. node	875 Mar 20 j 13:57	29°♁29'33			877 Sep 23 j 13:23	0°♁	
	875 Mar 20 j 23:57	0°♁			877 Oct 18 j 01:56	0°♁	
	875 Apr 14 j 19:43	0°♁			877 Nov 11 j 04:41	0°♁	
	875 May 10 j 04:31	0°♁			877 Dec 05 j 03:12	0°♁	
	875 Jun 05 j 10:14	0°♁		desc. node	877 Dec 24 j 22:18	24°♁51'11	
	875 Jul 03 j 10:36	0°♁			877 Dec 29 j 00:43	0°♁	
desc. node	875 Jul 10 j 03:10	6°♁39'09		morning set	878 Jan 08 j 05:20	12°♁47'17	
evening max el	875 Jul 12 j 17:06	9°♁08'40	45°44'37		878 Jan 21 j 23:00	0°♁	
	875 Aug 06 j 16:40	0°♁			878 Feb 14 j 23:07	0°♁	
greatest brilliancy	875 Aug 19 j 21:32	7°♁01'32	-4.5m				
retrograde	875 Aug 30 j 15:17	9°♁05'12		superior conj	878 Feb 18 j 07:08	4°♁09'22	-1°-25'-42
evening set	875 Sep 17 j 02:47	3°♁23'09		minimum elong	878 Feb 18 j 06:22	4°♁06'58	1°25'42
inferior conj	875 Sep 20 j 13:44	1°♁17'53	-8°-6'-41	max. Earth dist.	878 Feb 22 j 09:52	9°♁16'45	1.72113 AU
minimum elong	875 Sep 20 j 21:34	1°♁05'52	8°05'45		878 Mar 11 j 02:05	0°♁	
min. Earth dist.	875 Sep 21 j 10:29	0°♁46'04	0.27562 AU	evening rise	878 Mar 29 j 13:12	22°♁50'05	
	875 Sep 22 j 16:43	30°♁			878 Apr 04 j 08:43	0°♁	
morning rise	875 Sep 24 j 16:03	28°♁49'38		asc. node	878 Apr 17 j 01:53	15°♁37'51	
direct	875 Oct 11 j 14:00	23°♁21'22			878 Apr 28 j 19:31	0°♁	
greatest brilliancy	875 Oct 25 j 12:29	26°♁54'20	-4.6m		878 May 23 j 10:51	0°♁	
	875 Oct 31 j 03:11	0°♁			878 Jun 17 j 07:43	0°♁	
asc. node	875 Oct 31 j 06:34	0°♁05'15			878 Jul 12 j 12:41	0°♁	
morning max el	875 Dec 01 j 07:59	26°♁46'52	46°54'55	desc. node	878 Aug 06 j 15:01	29°♁14'10	
	875 Dec 04 j 10:52	0°♁			878 Aug 07 j 06:59	0°♁	
	875 Dec 31 j 15:24	0°♁			878 Sep 03 j 02:15	0°♁	
	876 Jan 26 j 05:35	0°♁		evening max el	878 Sep 23 j 23:21	21°♁45'58	46°56'14
desc. node	876 Feb 19 j 20:03	29°♁30'43			878 Oct 02 j 13:25	0°♁	
	876 Feb 20 j 05:45	0°♁		greatest brilliancy	878 Nov 02 j 00:02	21°♁47'55	-4.7m
	876 Mar 16 j 00:14	0°♁		retrograde	878 Nov 13 j 08:02	24°♁12'34	
	876 Apr 09 j 16:21	0°♁		evening set	878 Nov 27 j 15:21	20°♁08'43	
	876 May 04 j 07:19	0°♁		asc. node	878 Nov 27 j 18:19	20°♁04'46	
	876 May 28 j 20:57	0°♁		min. Earth dist.	878 Dec 03 j 13:28	16°♁42'13	0.26389 AU
morning set	876 Jun 02 j 22:15	6°♁11'03		inferior conj	878 Dec 03 j 21:07	16°♁30'34	1°35'07
asc. node	876 Jun 11 j 23:26	17°♁16'11		minimum elong	878 Dec 03 j 17:31	16°♁36'02	1°33'57
	876 Jun 22 j 08:20	0°♁		morning rise	878 Dec 09 j 19:46	13°♁01'59	
max. Earth dist.	876 Jul 06 j 06:22	17°♁07'52	1.73315 AU	direct	878 Dec 24 j 03:57	8°♁54'22	
				greatest brilliancy	879 Jan 04 j 20:12	11°♁27'08	-4.7m
superior conj	876 Jul 09 j 06:01	20°♁48'42	0°58'41		879 Jan 31 j 09:25	0°♁	
minimum elong	876 Jul 08 j 21:19	20°♁21'53	0°58'22	morning max el	879 Feb 12 j 08:56	11°♁23'12	46°40'44
	876 Jul 16 j 16:42	0°♁			879 Mar 02 j 05:02	0°♁	
	876 Aug 09 j 22:21	0°♁		desc. node	879 Mar 19 j 07:59	18°♁56'38	
evening rise	876 Aug 14 j 06:15	5°♁22'05			879 Mar 29 j 01:24	0°♁	
	876 Sep 03 j 02:30	0°♁			879 Apr 23 j 21:36	0°♁	
	876 Sep 27 j 06:36	0°♁			879 May 19 j 06:12	0°♁	
desc. node	876 Oct 01 j 12:58	5°♁17'23			879 Jun 13 j 07:08	0°♁	
	876 Oct 21 j 11:46	0°♁			879 Jul 08 j 01:09	0°♁	
	876 Nov 14 j 19:15	0°♁		asc. node	879 Jul 10 j 11:15	2°♁57'10	
	876 Dec 09 j 08:00	0°♁			879 Aug 01 j 12:17	0°♁	
	877 Jan 03 j 09:10	0°♁		morning set	879 Aug 10 j 18:35	11°♁26'33	
asc. node	877 Jan 22 j 16:03	22°♁14'43			879 Aug 25 j 17:21	0°♁	
	877 Jan 29 j 15:20	0°♁		max. Earth dist.	879 Sep 13 j 21:03	23°♁53'44	1.71897 AU
evening max el	877 Feb 17 j 04:32	19°♁29'45	46°14'45				
	877 Feb 28 j 06:22	0°♁		superior conj	879 Sep 16 j 22:24	27°♁43'09	1°19'25
greatest brilliancy	877 Mar 24 j 04:05	17°♁13'25	-4.5m	minimum elong	879 Sep 17 j 04:59	28°♁03'43	1°19'19
retrograde	877 Apr 07 j 18:57	21°♁01'25			879 Sep 18 j 18:09	0°♁	
evening set	877 Apr 23 j 12:49	16°♁13'20			879 Oct 12 j 16:47	0°♁	
inferior conj	877 Apr 29 j 05:04	12°♁45'33	3°26'22	evening rise	879 Oct 26 j 07:41	17°♁05'05	
minimum elong	877 Apr 29 j 12:01	12°♁34'35	3°24'30	desc. node	879 Oct 30 j 00:50	21°♁44'35	
min. Earth dist.	877 Apr 29 j 08:19	12°♁40'25	0.28872 AU		879 Nov 05 j 14:53	0°♁	
morning rise	877 May 05 j 11:23	8°♁58'02			879 Nov 29 j 13:31	0°♁	
desc. node	877 May 14 j 05:27	5°♁19'00			879 Dec 23 j 14:01	0°♁	
direct	877 May 20 j 17:36	4°♁28'57			880 Jan 16 j 18:49	0°♁	
greatest brilliancy	877 Jun 02 j 17:56	7°♁26'46	-4.5m		880 Feb 10 j 08:12	0°♁	

asc. node	880 Feb 20 j 04:03	11°♃49'01			882 Sep 09 j 07:55	0°♎	
	880 Mar 06 j 13:03	0°♄		greatest brilliancy	882 Sep 21 j 04:02	14°♎42'13	-3.9m
	880 Apr 01 j 22:08	0°♂			882 Oct 03 j 10:06	0°♌	
evening max el	880 Apr 28 j 20:26	27°♂58'06	45°22'47	morning set	882 Oct 21 j 01:34	22°♌07'59	
	880 Apr 30 j 23:39	0°♄			882 Oct 27 j 07:45	0°♌	
greatest brilliancy	880 Jun 02 j 13:12	24°♄17'38	-4.5m		882 Nov 20 j 03:44	0°♌	
desc. node	880 Jun 10 j 17:21	27°♄01'43		desc. node	882 Nov 26 j 12:33	8°♌00'59	
retrograde	880 Jun 16 j 09:52	27°♄37'52					
evening set	880 Jul 02 j 03:33	22°♄53'51		superior conj	882 Nov 30 j 17:30	13°♌18'39	0°-10'-1
inferior conj	880 Jul 07 j 20:06	19°♄29'09	-5°-48'-50	minimum elong	882 Nov 30 j 14:48	13°♌10'11	0°09'54
minimum elong	880 Jul 07 j 10:13	19°♄44'29	5°46'41	behind sun begin	882 Nov 29 j 17:24	12°♌02'48	
min. Earth dist.	880 Jul 07 j 21:27	19°♄27'03	0.28894 AU	behind sun end	882 Dec 01 j 12:13	14°♌17'34	
morning rise	880 Jul 12 j 16:43	16°♄32'17		max. Earth dist.	882 Dec 01 j 20:48	14°♌44'35	1.71037 AU
direct	880 Jul 29 j 11:32	11°♄12'42			882 Dec 13 j 23:48	0°♄	
greatest brilliancy	880 Aug 12 j 20:33	14°♄49'57	-4.5m		883 Jan 06 j 21:01	0°♌	
	880 Sep 03 j 19:11	0°♌		evening rise	883 Jan 11 j 09:29	5°♌39'54	
morning max el	880 Sep 17 j 03:25	12°♌23'22	46°18'03		883 Jan 30 j 20:43	0°♌	
asc. node	880 Oct 01 j 20:52	27°♌38'05			883 Feb 24 j 00:46	0°♃	
	880 Oct 04 j 01:17	0°♎		asc. node	883 Mar 19 j 16:04	29°♃00'37	
	880 Oct 30 j 10:33	0°♌			883 Mar 20 j 11:33	0°♄	
	880 Nov 24 j 11:03	0°♌			883 Apr 14 j 07:50	0°♂	
	880 Dec 18 j 21:45	0°♌			883 May 09 j 17:39	0°♄	
	881 Jan 12 j 03:12	0°♄			883 Jun 05 j 01:27	0°♌	
desc. node	881 Jan 21 j 10:14	11°♄31'43			883 Jul 03 j 07:06	0°♎	
	881 Feb 05 j 07:26	0°♌		desc. node	883 Jul 09 j 05:16	5°♎49'10	
	881 Mar 01 j 12:18	0°♌		evening max el	883 Jul 10 j 06:17	6°♎49'12	45°42'29
morning set	881 Mar 24 j 00:38	27°♌50'20			883 Aug 07 j 21:49	0°♌	
	881 Mar 25 j 18:39	0°♃		greatest brilliancy	883 Aug 17 j 10:14	4°♌40'51	-4.5m
	881 Apr 19 j 02:47	0°♄		retrograde	883 Aug 28 j 03:45	6°♌44'45	
				evening set	883 Sep 14 j 18:40	0°♌58'54	
superior conj	881 Apr 30 j 13:54	14°♄06'04	0°-32'-24		883 Sep 16 j 10:07	30°♎	
minimum elong	881 Apr 30 j 20:21	14°♄25'54	0°32'07	inferior conj	883 Sep 18 j 03:29	28°♎56'50	-8°-14'-40
max. Earth dist.	881 May 01 j 16:23	15°♄27'28	1.73473 AU	minimum elong	883 Sep 18 j 10:39	28°♎45'49	8°13'53
	881 May 13 j 12:24	0°♂		min. Earth dist.	883 Sep 19 j 00:27	28°♎24'40	0.27630 AU
asc. node	881 May 14 j 13:40	1°♂17'36		morning rise	883 Sep 22 j 02:18	26°♎33'25	
evening rise	881 Jun 06 j 02:49	28°♂58'34		direct	883 Oct 09 j 03:52	20°♎59'05	
	881 Jun 06 j 22:50	0°♄		greatest brilliancy	883 Oct 23 j 04:31	24°♎33'37	-4.6m
	881 Jul 01 j 09:46	0°♌		asc. node	883 Oct 30 j 08:31	28°♎38'49	
	881 Jul 25 j 21:42	0°♎			883 Nov 01 j 08:46	0°♌	
	881 Aug 19 j 12:00	0°♌		morning max el	883 Nov 28 j 21:02	24°♌19'36	46°54'22
desc. node	881 Sep 03 j 03:04	17°♌44'56			883 Dec 04 j 08:06	0°♌	
	881 Sep 13 j 06:31	0°♌			883 Dec 31 j 07:30	0°♌	
	881 Oct 08 j 08:01	0°♌			884 Jan 25 j 19:35	0°♄	
	881 Nov 02 j 23:02	0°♄		desc. node	884 Feb 18 j 22:09	28°♄58'13	
	881 Nov 30 j 00:09	0°♌			884 Feb 19 j 18:36	0°♌	
evening max el	881 Dec 05 j 11:13	5°♌40'30	47°18'27		884 Mar 15 j 12:19	0°♌	
asc. node	881 Dec 25 j 06:19	24°♌13'09			884 Apr 09 j 03:55	0°♃	
	882 Jan 01 j 18:18	0°♌			884 May 03 j 18:31	0°♄	
greatest brilliancy	882 Jan 11 j 23:02	6°♌04'28	-4.7m		884 May 28 j 07:56	0°♂	
retrograde	882 Jan 25 j 10:40	9°♌26'34		morning set	884 May 31 j 16:46	4°♂07'18	
evening set	882 Feb 12 j 05:14	3°♌15'19		asc. node	884 Jun 11 j 01:31	16°♂49'10	
min. Earth dist.	882 Feb 14 j 15:48	1°♌44'03	0.27855 AU		884 Jun 21 j 19:13	0°♄	
inferior conj	882 Feb 15 j 09:18	1°♌16'30	8°43'16	max. Earth dist.	884 Jul 04 j 02:40	15°♄09'02	1.73354 AU
minimum elong	882 Feb 15 j 07:49	1°♌18'49	8°43'13				
	882 Feb 17 j 10:12	30°♌		superior conj	884 Jul 07 j 00:44	18°♄44'53	0°56'24
morning rise	882 Feb 18 j 10:40	29°♌22'30		minimum elong	884 Jul 06 j 16:05	18°♄18'15	0°56'04
direct	882 Mar 08 j 06:04	23°♌18'26			884 Jul 16 j 03:36	0°♌	
greatest brilliancy	882 Mar 19 j 00:30	25°♌26'55	-4.6m		884 Aug 09 j 09:23	0°♎	
	882 Mar 28 j 03:46	0°♌		evening rise	884 Aug 11 j 23:42	3°♎13'05	
desc. node	882 Apr 15 j 19:42	14°♌07'37			884 Sep 02 j 13:46	0°♌	
morning max el	882 Apr 26 j 10:23	23°♌55'27	45°58'10		884 Sep 26 j 18:10	0°♌	
	882 May 02 j 14:47	0°♃		desc. node	884 Sep 30 j 14:57	4°♌47'34	
	882 May 30 j 22:00	0°♄			884 Oct 20 j 23:42	0°♌	
	882 Jun 26 j 09:51	0°♂			884 Nov 14 j 07:40	0°♄	
	882 Jul 21 j 23:29	0°♄			884 Dec 08 j 21:08	0°♌	
asc. node	882 Aug 06 j 23:14	19°♄10'09			885 Jan 02 j 23:38	0°♌	
	882 Aug 15 j 21:35	0°♌		asc. node	885 Jan 21 j 18:11	21°♌34'47	

	885 Jan 29 j 08:47	0°♃		max. Earth dist.	887 Sep 11 j 10:49	21°♍32'40	1.71949 AU
evening max el	885 Feb 14 j 18:48	17°♃11'18	46°17'24				
	885 Feb 28 j 10:43	0°♄		superior conj	887 Sep 14 j 13:48	25°♍26'58	1°20'33
greatest brilliancy	885 Mar 21 j 20:15	15°♄02'12	-4.5m	minimum elong	887 Sep 14 j 19:42	25°♍45'24	1°20'28
retrograde	885 Apr 05 j 11:32	18°♄51'37			887 Sep 18 j 05:06	0°♅	
evening set	885 Apr 21 j 07:29	14°♄00'02			887 Oct 12 j 03:52	0°♆	
inferior conj	885 Apr 26 j 21:35	10°♄35'36	3°44'28	evening rise	887 Oct 23 j 19:26	14°♆36'24	
minimum elong	885 Apr 27 j 05:01	10°♄23'52	3°42'29	desc. node	887 Oct 29 j 02:50	21°♆15'45	
min. Earth dist.	885 Apr 27 j 01:01	10°♄30'10	0.28857 AU		887 Nov 05 j 02:08	0°♇	
morning rise	885 May 03 j 02:40	6°♄49'48			887 Nov 29 j 00:57	0°♈	
desc. node	885 May 13 j 07:23	2°♄49'33			887 Dec 23 j 01:40	0°♉	
direct	885 May 18 j 09:07	2°♄19'02			888 Jan 16 j 06:47	0°♊	
greatest brilliancy	885 May 31 j 09:28	5°♄16'38	-4.5m		888 Feb 09 j 20:42	0°♋	
	885 Jul 04 j 00:28	0°♌		asc. node	888 Feb 19 j 06:07	11°♃16'52	
morning max el	885 Jul 06 j 02:55	1°♌59'14	45°45'31		888 Mar 06 j 02:37	0°♄	
	885 Aug 02 j 07:27	0°♍			888 Apr 01 j 14:10	0°♌	
	885 Aug 28 j 20:11	0°♎		evening max el	888 Apr 26 j 13:17	25°♌49'41	45°23'33
asc. node	885 Sep 03 j 11:07	6°♎34'48			888 Apr 30 j 23:24	0°♍	
	885 Sep 23 j 01:53	0°♏		greatest brilliancy	888 May 31 j 04:16	22°♍07'18	-4.5m
	885 Oct 17 j 13:54	0°♐		desc. node	888 Jun 09 j 19:32	25°♍07'49	
	885 Nov 10 j 16:22	0°♑		retrograde	888 Jun 14 j 01:56	25°♍28'17	
	885 Dec 04 j 14:42	0°♒		evening set	888 Jun 29 j 17:20	20°♍47'45	
desc. node	885 Dec 24 j 00:27	24°♑22'16		inferior conj	888 Jul 05 j 12:13	17°♍19'19	-5°-33'-42
	885 Dec 28 j 12:04	0°♓		minimum elong	888 Jul 05 j 02:29	17°♍34'28	5°31'32
morning set	886 Jan 05 j 14:53	10°♓11'12		min. Earth dist.	888 Jul 05 j 13:05	17°♍17'59	0.28904 AU
	886 Jan 21 j 10:13	0°♈		morning rise	888 Jul 10 j 11:31	14°♍18'24	
	886 Feb 14 j 10:16	0°♉		direct	888 Jul 27 j 04:18	9°♍02'58	
				greatest brilliancy	888 Aug 10 j 10:43	12°♍37'17	-4.5m
superior conj	886 Feb 15 j 19:23	1°♉43'15	-1°-25'-29		888 Sep 03 j 23:31	0°♎	
minimum elong	886 Feb 15 j 17:36	1°♉37'43	1°25'30	morning max el	888 Sep 14 j 18:38	10°♎08'42	46°16'29
max. Earth dist.	886 Feb 19 j 19:07	6°♉41'31	1.72058 AU	asc. node	888 Sep 30 j 22:50	26°♎55'43	
	886 Mar 10 j 13:11	0°♊			888 Oct 03 j 18:29	0°♏	
evening rise	886 Mar 27 j 03:59	20°♊33'23			888 Oct 30 j 00:43	0°♐	
	886 Apr 03 j 19:50	0°♋			888 Nov 23 j 23:56	0°♑	
asc. node	886 Apr 16 j 03:52	15°♋09'47			888 Dec 18 j 09:57	0°♒	
	886 Apr 28 j 06:43	0°♌			889 Jan 11 j 14:59	0°♓	
	886 May 22 j 22:18	0°♍		desc. node	889 Jan 20 j 12:22	11°♓02'09	
	886 Jun 16 j 19:41	0°♎			889 Feb 04 j 18:55	0°♈	
desc. node	886 Jul 12 j 01:35	0°♏			889 Feb 28 j 23:30	0°♉	
	886 Aug 05 j 17:08	28°♏38'35		morning set	889 Mar 21 j 15:34	25°♉34'18	
	886 Aug 06 j 21:36	0°♐			889 Mar 25 j 05:38	0°♊	
	886 Sep 02 j 20:24	0°♑			889 Apr 18 j 13:37	0°♋	
evening max el	886 Sep 21 j 13:06	19°♑22'39	46°53'54				
	886 Oct 02 j 18:36	0°♒		superior conj	889 Apr 28 j 06:50	11°♒57'21	0°-35'-25
greatest brilliancy	886 Oct 30 j 12:46	19°♒17'58	-4.7m	minimum elong	889 Apr 28 j 13:48	12°♒18'45	0°35'06
retrograde	886 Nov 10 j 20:39	21°♒42'07		max. Earth dist.	889 Apr 29 j 14:47	13°♒35'34	1.73445 AU
evening set	886 Nov 25 j 03:25	17°♒38'17			889 May 12 j 23:10	0°♓	
asc. node	886 Nov 26 j 20:27	16°♒41'54		asc. node	889 May 13 j 15:45	0°♓50'53	
min. Earth dist.	886 Dec 01 j 02:45	14°♒10'08	0.26382 AU	evening rise	889 Jun 03 j 21:34	26°♓55'31	
inferior conj	886 Dec 01 j 09:07	14°♒00'27	1°10'33		889 Jun 06 j 09:41	0°♈	
minimum elong	886 Dec 01 j 06:26	14°♒04'32	1°09'41		889 Jun 30 j 20:47	0°♉	
morning rise	886 Dec 07 j 09:33	10°♒30'01			889 Jul 25 j 09:01	0°♊	
direct	886 Dec 21 j 16:31	6°♒24'16			889 Aug 18 j 23:47	0°♋	
greatest brilliancy	887 Jan 02 j 10:18	8°♒59'25	-4.7m	desc. node	889 Sep 02 j 05:06	17°♋14'10	
	887 Jan 31 j 14:43	0°♌			889 Sep 12 j 19:02	0°♌	
morning max el	887 Feb 09 j 23:20	9°♌01'02	46°42'05		889 Oct 07 j 21:41	0°♍	
	887 Mar 01 j 23:11	0°♎			889 Nov 02 j 14:49	0°♆	
desc. node	887 Mar 18 j 10:03	18°♎18'09			889 Nov 29 j 20:57	0°♇	
	887 Mar 28 j 16:06	0°♏		evening max el	889 Dec 03 j 02:10	3°♎19'16	47°19'03
	887 Apr 23 j 10:39	0°♐		asc. node	889 Dec 24 j 08:26	23°♎03'39	
	887 May 18 j 18:17	0°♑			890 Jan 02 j 21:21	0°♈	
	887 Jun 12 j 18:37	0°♒		greatest brilliancy	890 Jan 09 j 16:28	3°♈46'25	-4.7m
	887 Jul 07 j 12:16	0°♓		retrograde	890 Jan 23 j 01:15	7°♈05'09	
asc. node	887 Jul 09 j 13:27	2°♓30'02		evening set	890 Feb 09 j 18:11	0°♉57'20	
	887 Jul 31 j 23:12	0°♈			890 Feb 11 j 07:10	30°♈	
morning set	887 Aug 08 j 11:48	9°♈17'37		min. Earth dist.	890 Feb 12 j 05:38	29°♈24'41	0.27797 AU
	887 Aug 25 j 04:14	0°♉		inferior conj	890 Feb 12 j 23:44	28°♈56'09	8°41'40

minimum elong	890 Feb 12 j 21:25	28° \approx 59'47	8°41'36	superior conj	892 Jul 04 j 19:00	16° \approx 40'38	0°54'00
morning rise	890 Feb 16 j 00:54	27° \approx 02'19		minimum elong	892 Jul 04 j 10:28	16° \approx 14'19	0°53'41
direct	890 Mar 05 j 19:51	20° \approx 59'16			892 Jul 15 j 14:13	0° Ω	
greatest brilliancy	890 Mar 16 j 12:55	23° \approx 06'12	-4.6m		892 Aug 08 j 20:07	0° \mathbb{M}	
	890 Mar 29 j 08:19	0° \mathbb{H}		evening rise	892 Aug 09 j 17:00	1° \mathbb{M} 04'43	
desc. node	890 Apr 14 j 21:40	13° \mathbb{H} 09'23			892 Sep 02 j 00:43	0° Ω	
morning max el	890 Apr 23 j 23:52	21° \mathbb{H} 36'59	45°59'20		892 Sep 26 j 05:26	0° \mathbb{M}	
	890 May 02 j 11:07	0° \mathbb{Y}		desc. node	892 Sep 29 j 16:58	4° \mathbb{M} 18'46	
	890 May 30 j 13:06	0° \mathbb{B}			892 Oct 20 j 11:20	0° \mathbb{Z}	
	890 Jun 25 j 22:52	0° \mathbb{I}			892 Nov 13 j 19:45	0° \mathbb{Z}	
	890 Jul 21 j 11:27	0° \mathbb{S}			892 Dec 08 j 09:56	0° \approx	
asc. node	890 Aug 06 j 01:12	18° \mathbb{S} 41'12			893 Jan 02 j 13:46	0° \mathbb{H}	
	890 Aug 15 j 08:59	0° Ω		asc. node	893 Jan 20 j 20:13	20° \mathbb{H} 55'39	
	890 Sep 08 j 19:00	0° \mathbb{M}			893 Jan 29 j 02:04	0° \mathbb{Y}	
greatest brilliancy	890 Sep 26 j 07:35	21° \mathbb{M} 47'58	-3.9m	evening max el	893 Feb 12 j 09:36	14° \mathbb{Y} 55'33	46°19'58
	890 Oct 02 j 21:02	0° Ω			893 Feb 28 j 16:26	0° \mathbb{B}	
morning set	890 Oct 18 j 14:40	19° Ω 44'05		greatest brilliancy	893 Mar 19 j 11:43	12° \mathbb{B} 51'12	-4.5m
	890 Oct 26 j 18:38	0° \mathbb{M}		retrograde	893 Apr 03 j 04:23	16° \mathbb{B} 42'36	
	890 Nov 19 j 14:38	0° \mathbb{Z}		evening set	893 Apr 19 j 02:08	11° \mathbb{B} 47'13	
desc. node	890 Nov 25 j 14:43	7° \mathbb{Z} 33'34		inferior conj	893 Apr 24 j 13:58	8° \mathbb{B} 26'11	4°02'14
				minimum elong	893 Apr 24 j 21:52	8° \mathbb{B} 13'44	4°00'11
superior conj	890 Nov 28 j 03:41	10° \mathbb{Z} 45'25	0°-6'-4	min. Earth dist.	893 Apr 24 j 17:17	8° \mathbb{B} 20'57	0.28848 AU
minimum elong	890 Nov 28 j 02:03	10° \mathbb{Z} 40'16	0°06'01	morning rise	893 Apr 30 j 17:43	4° \mathbb{B} 42'29	
behind sun begin	890 Nov 27 j 01:09	9° \mathbb{Z} 21'55		desc. node	893 May 12 j 09:35	0° \mathbb{B} 25'23	
behind sun end	890 Nov 29 j 02:57	11° \mathbb{Z} 58'38		direct	893 May 16 j 01:06	0° \mathbb{B} 09'35	
max. Earth dist.	890 Nov 28 j 23:58	11° \mathbb{Z} 49'14	1.71035 AU	greatest brilliancy	893 May 29 j 01:03	3° \mathbb{B} 07'12	-4.5m
	890 Dec 13 j 10:43	0° \mathbb{Z}		morning max el	893 Jul 03 j 19:42	29° \mathbb{B} 51'55	45°45'10
	891 Jan 06 j 07:59	0° \approx			893 Jul 03 j 23:06	0° \mathbb{I}	
evening rise	891 Jan 08 j 19:52	3° \approx 07'42			893 Aug 01 j 23:02	0° \mathbb{S}	
	891 Jan 30 j 07:44	0° \mathbb{H}			893 Aug 28 j 09:23	0° Ω	
	891 Feb 23 j 11:55	0° \mathbb{Y}		asc. node	893 Sep 02 j 13:07	6° Ω 02'43	
asc. node	891 Mar 18 j 18:01	28° \mathbb{Y} 31'44			893 Sep 22 j 14:00	0° \mathbb{M}	
	891 Mar 19 j 23:00	0° \mathbb{B}			893 Oct 17 j 01:29	0° Ω	
	891 Apr 13 j 19:49	0° \mathbb{I}			893 Nov 10 j 03:41	0° \mathbb{M}	
	891 May 09 j 06:40	0° \mathbb{S}			893 Dec 04 j 01:49	0° \mathbb{Z}	
	891 Jun 04 j 16:39	0° Ω		desc. node	893 Dec 23 j 02:32	23° \mathbb{Z} 54'15	
	891 Jul 03 j 04:01	0° \mathbb{M}			893 Dec 27 j 23:03	0° \mathbb{Z}	
evening max el	891 Jul 07 j 19:02	4° \mathbb{M} 29'38	45°40'37	morning set	894 Jan 03 j 00:40	7° \mathbb{Z} 36'54	
desc. node	891 Jul 08 j 07:22	4° \mathbb{M} 59'02			894 Jan 20 j 21:05	0° \approx	
	891 Aug 09 j 15:01	0° Ω					
greatest brilliancy	891 Aug 14 j 21:55	2° Ω 20'13	-4.5m	superior conj	894 Feb 13 j 07:45	29° \approx 18'35	-1°-25'-8
retrograde	891 Aug 25 j 16:37	4° Ω 25'44		minimum elong	894 Feb 13 j 04:59	29° \approx 10'00	1°25'08
	891 Sep 09 j 23:01	30° \mathbb{M}			894 Feb 13 j 21:01	0° \mathbb{H}	
evening set	891 Sep 12 j 10:21	28° \mathbb{M} 36'01		max. Earth dist.	894 Feb 17 j 06:34	4° \mathbb{H} 14'13	1.72002 AU
inferior conj	891 Sep 15 j 17:14	26° \mathbb{M} 36'56	-8°-21'-45		894 Mar 09 j 23:53	0° \mathbb{Y}	
minimum elong	891 Sep 15 j 23:44	26° \mathbb{M} 26'59	8°21'08	evening rise	894 Mar 24 j 18:53	18° \mathbb{Y} 18'20	
min. Earth dist.	891 Sep 16 j 14:15	26° \mathbb{M} 04'43	0.27696 AU		894 Apr 03 j 06:32	0° \mathbb{B}	
morning rise	891 Sep 19 j 12:46	24° \mathbb{M} 18'24		asc. node	894 Apr 15 j 06:00	14° \mathbb{B} 43'18	
direct	891 Oct 06 j 17:53	18° \mathbb{M} 37'54			894 Apr 27 j 17:34	0° \mathbb{I}	
greatest brilliancy	891 Oct 20 j 21:26	22° \mathbb{M} 15'24	-4.6m		894 May 22 j 09:29	0° \mathbb{S}	
asc. node	891 Oct 29 j 10:36	27° \mathbb{M} 16'35			894 Jun 16 j 07:27	0° Ω	
	891 Nov 02 j 05:42	0° Ω			894 Jul 11 j 14:21	0° \mathbb{M}	
morning max el	891 Nov 26 j 10:49	21° Ω 55'36	46°53'59	desc. node	894 Aug 04 j 19:08	28° \mathbb{M} 03'07	
	891 Dec 04 j 04:11	0° \mathbb{M}			894 Aug 06 j 12:09	0° Ω	
	891 Dec 30 j 22:54	0° \mathbb{Z}			894 Sep 02 j 14:42	0° \mathbb{M}	
	892 Jan 25 j 09:01	0° \mathbb{Z}		evening max el	894 Sep 19 j 03:22	17° \mathbb{M} 01'41	46°51'39
desc. node	892 Feb 18 j 00:09	28° \mathbb{Z} 26'51			894 Oct 03 j 01:28	0° \mathbb{Z}	
	892 Feb 19 j 06:57	0° \approx		greatest brilliancy	894 Oct 28 j 01:35	16° \mathbb{Z} 49'17	-4.7m
	892 Mar 15 j 00:00	0° \mathbb{H}		retrograde	894 Nov 08 j 09:17	19° \mathbb{Z} 12'27	
	892 Apr 08 j 15:09	0° \mathbb{Y}		evening set	894 Nov 22 j 15:44	15° \mathbb{Z} 08'39	
	892 May 03 j 05:27	0° \mathbb{B}		asc. node	894 Nov 25 j 22:37	13° \mathbb{Z} 17'18	
	892 May 27 j 18:40	0° \mathbb{I}		inferior conj	894 Nov 28 j 21:05	11° \mathbb{Z} 31'11	0°45'52
morning set	892 May 29 j 10:47	2° \mathbb{I} 02'48		minimum elong	894 Nov 28 j 19:19	11° \mathbb{Z} 33'51	0°45'18
asc. node	892 Jun 10 j 03:40	16° \mathbb{I} 23'11		min. Earth dist.	894 Nov 28 j 15:54	11° \mathbb{Z} 39'02	0.26376 AU
	892 Jun 21 j 05:49	0° \mathbb{S}		morning rise	894 Dec 04 j 23:03	7° \mathbb{Z} 59'01	
max. Earth dist.	892 Jul 02 j 00:03	13° \mathbb{S} 14'24	1.73387 AU	direct	894 Dec 19 j 05:19	3° \mathbb{Z} 55'09	
				greatest brilliancy	894 Dec 30 j 23:45	6° \mathbb{Z} 31'40	-4.7m

	895 Jan 31 j 17:50	0°☾			897 Sep 12 j 07:43	0°♍		
morning max el	895 Feb 07 j 13:20	6°☾38'42	46°43'24		897 Oct 07 j 11:38	0°♁		
	895 Mar 01 j 16:34	0°♁			897 Nov 02 j 07:00	0°☾		
desc. node	895 Mar 17 j 12:03	17°♁40'53			897 Nov 29 j 18:38	0°♁		
	895 Mar 28 j 06:16	0°♁		evening max el	897 Nov 30 j 16:06	0°♁54'59	47°19'49	
	895 Apr 22 j 23:15	0°♁		asc. node	897 Dec 23 j 10:25	21°♁51'46		
	895 May 18 j 05:59	0°♁			898 Jan 04 j 12:11	0°♁		
	895 Jun 12 j 05:47	0°♁		greatest brilliancy	898 Jan 07 j 09:46	1°♁27'48	-4.7m	
	895 Jul 06 j 23:08	0°♁		retrograde	898 Jan 20 j 15:29	4°♁43'41		
asc. node	895 Jul 08 j 15:25	2°♁02'55			898 Feb 05 j 00:27	30°♁		
	895 Jul 31 j 09:57	0°♁		evening set	898 Feb 07 j 06:47	28°♁39'40		
morning set	895 Aug 06 j 04:46	7°♁08'32		min. Earth dist.	898 Feb 09 j 19:40	27°♁04'57	0.27735 AU	
	895 Aug 24 j 14:58	0°♁		inferior conj	898 Feb 10 j 14:12	26°♁35'44	8°39'17	
max. Earth dist.	895 Sep 08 j 22:08	19°♁04'30	1.72000 AU	minimum elong	898 Feb 10 j 11:02	26°♁40'43	8°39'09	
				morning rise	898 Feb 13 j 15:31	24°♁41'37		
superior conj	895 Sep 12 j 05:02	23°♁10'56	1°21'34	direct	898 Mar 03 j 09:12	18°♁39'50		
minimum elong	895 Sep 12 j 10:13	23°♁27'07	1°21'29	greatest brilliancy	898 Mar 14 j 02:21	20°♁46'26	-4.6m	
	895 Sep 17 j 15:54	0°♁			898 Mar 30 j 05:07	0°♁		
	895 Oct 11 j 14:46	0°♁		desc. node	898 Apr 13 j 23:53	12°♁12'59		
evening rise	895 Oct 21 j 07:01	12°♁07'49		morning max el	898 Apr 21 j 13:16	19°♁18'02	46°00'38	
desc. node	895 Oct 28 j 05:00	20°♁48'01			898 May 02 j 06:50	0°♁		
	895 Nov 04 j 13:10	0°♁			898 May 30 j 04:02	0°♁		
	895 Nov 28 j 12:11	0°♁			898 Jun 25 j 11:49	0°♁		
	895 Dec 22 j 13:08	0°♁			898 Jul 20 j 23:24	0°♁		
	896 Jan 15 j 18:34	0°♁		asc. node	898 Aug 05 j 03:17	18°♁12'32		
	896 Feb 09 j 09:01	0°♁			898 Aug 14 j 20:25	0°♁		
asc. node	896 Feb 18 j 08:07	10°♁45'03			898 Sep 08 j 06:11	0°♁		
	896 Mar 05 j 16:02	0°♁		greatest brilliancy	898 Sep 29 j 05:17	26°♁05'59	-3.9m	
	896 Apr 01 j 06:10	0°♁			898 Oct 02 j 08:08	0°♁		
evening max el	896 Apr 24 j 05:20	23°♁40'05	45°24'19	morning set	898 Oct 16 j 03:40	17°♁19'14		
	896 Apr 30 j 23:58	0°♁			898 Oct 26 j 05:45	0°♁		
greatest brilliancy	896 May 28 j 19:38	19°♁58'00	-4.5m		898 Nov 19 j 01:47	0°♁		
desc. node	896 Jun 08 j 21:33	23°♁10'24		desc. node	898 Nov 24 j 16:48	7°♁05'01		
retrograde	896 Jun 11 j 17:30	23°♁19'28						
evening set	896 Jun 27 j 07:17	18°♁42'07		superior conj	898 Nov 25 j 13:29	8°♁10'07	0°-2'-4	
inferior conj	896 Jul 03 j 04:24	15°♁10'16	-5°-18'-8	minimum elong	898 Nov 25 j 12:55	8°♁08'21	0°02'03	
minimum elong	896 Jul 02 j 18:51	15°♁25'09	5°15'57	behind sun begin	898 Nov 24 j 10:37	6°♁45'33		
min. Earth dist.	896 Jul 03 j 05:05	15°♁09'12	0.28917 AU	behind sun end	898 Nov 26 j 15:13	9°♁31'08		
morning rise	896 Jul 08 j 06:16	12°♁05'14		max. Earth dist.	898 Nov 26 j 02:24	8°♁50'47	1.71038 AU	
direct	896 Jul 24 j 20:45	6°♁53'47			898 Dec 12 j 21:53	0°♁		
greatest brilliancy	896 Aug 08 j 01:13	10°♁25'17	-4.5m		899 Jan 05 j 19:09	0°♁		
	896 Sep 04 j 02:09	0°♁		evening rise	899 Jan 06 j 05:49	0°♁33'26		
morning max el	896 Sep 12 j 08:58	7°♁51'58	46°14'51		899 Jan 29 j 18:56	0°♁		
asc. node	896 Sep 30 j 00:57	26°♁14'13			899 Feb 22 j 23:16	0°♁		
	896 Oct 03 j 11:21	0°♁		asc. node	899 Mar 17 j 20:10	28°♁02'56		
	896 Oct 29 j 14:46	0°♁			899 Mar 19 j 10:38	0°♁		
	896 Nov 23 j 12:42	0°♁			899 Apr 13 j 08:01	0°♁		
	896 Dec 17 j 22:02	0°♁			899 May 08 j 19:57	0°♁		
	897 Jan 11 j 02:38	0°♁			899 Jun 04 j 08:12	0°♁		
desc. node	897 Jan 19 j 14:20	10°♁32'30			899 Jul 03 j 01:48	0°♁		
	897 Feb 04 j 06:16	0°♁		evening max el	899 Jul 05 j 08:28	2°♁11'40	45°38'54	
	897 Feb 28 j 10:36	0°♁		desc. node	899 Jul 07 j 09:23	4°♁07'38		
morning set	897 Mar 19 j 06:28	23°♁18'18		greatest brilliancy	899 Aug 12 j 08:29	29°♁58'49	-4.5m	
	897 Mar 24 j 16:31	0°♁			899 Aug 12 j 09:45	0°♁		
	897 Apr 18 j 00:21	0°♁		retrograde	899 Aug 23 j 06:19	2°♁07'19		
					899 Sep 02 j 15:43	30°♁		
superior conj	897 Apr 25 j 23:56	9°♁49'20	0°-38'-21	evening set	899 Sep 10 j 01:53	26°♁13'59		
minimum elong	897 Apr 26 j 07:22	10°♁12'13	0°38'03	inferior conj	899 Sep 13 j 07:12	24°♁17'18	-8°-27'-43	
max. Earth dist.	897 Apr 27 j 12:09	11°♁40'41	1.73411 AU	minimum elong	899 Sep 13 j 12:58	24°♁08'30	8°27'15	
	897 May 12 j 09:52	0°♁		min. Earth dist.	899 Sep 14 j 03:46	23°♁45'50	0.27766 AU	
asc. node	897 May 12 j 17:54	0°♁		morning rise	899 Sep 16 j 23:43	22°♁03'23		
evening rise	897 Jun 01 j 16:26	24°♁53'14		direct	899 Oct 04 j 08:32	16°♁17'02		
	897 Jun 05 j 20:26	0°♁		greatest brilliancy	899 Oct 18 j 14:32	19°♁57'33	-4.6m	
	897 Jun 30 j 07:44	0°♁		asc. node	899 Oct 28 j 12:47	25°♁56'46		
	897 Jul 24 j 20:20	0°♁			899 Nov 02 j 21:29	0°♁		
	897 Aug 18 j 11:39	0°♁		morning max el	899 Nov 24 j 01:42	19°♁33'36	46°53'17	
desc. node	897 Sep 01 j 07:07	16°♁43'05			899 Dec 04 j 00:02	0°♁		

	899 Dec 30 j 14:29	0°♁	
	900 Jan 24 j 22:45	0°♁	
desc. node	900 Feb 17 j 02:16	27°♁54'46	
	900 Feb 18 j 19:37	0°♁	
	900 Mar 14 j 11:58	0°♁	
	900 Apr 08 j 02:39	0°♁	
	900 May 02 j 16:38	0°♁	
morning set	900 May 27 j 04:59	29°♁58'01	
	900 May 27 j 05:38	0°♁	
asc. node	900 Jun 09 j 05:38	15°♁55'49	
	900 Jun 20 j 16:42	0°♁	
max. Earth dist.	900 Jun 29 j 22:39	11°♁22'41	1.73416 AU
superior conj	900 Jul 02 j 13:35	14°♁36'31	0°51'34
minimum elong	900 Jul 02 j 05:12	14°♁10'42	0°51'14
	900 Jul 15 j 01:05	0°♁	
evening rise	900 Aug 07 j 10:50	28°♁57'14	
	900 Aug 08 j 07:06	0°♁	