

superior conj	16101 Feb 23 14:04	18° X 54'26	0°56'34	minimum elong	16103 Jul 18 17:52	10° Ω 27'57	8°57'09
minimum elong	16101 Feb 23 23:58	19° X 25'01	0°56'24	min. Earth dist.	16103 Jul 19 03:49	10° Ω 12'24	0.27725 AU
max. Earth dist.	16101 Feb 25 06:55	21° X 00'34	1.73038 AU	morning rise	16103 Jul 21 14:10	8° Ω 42'16	
	16101 Mar 04 13:41	0° Υ		direct	16103 Aug 08 13:45	2° Ω 31'12	
desc. node	16101 Mar 20 20:17	20° Υ 03'49		greatest brilliancy	16103 Aug 18 17:36	4° Ω 27'31	-4.9m
	16101 Mar 28 21:55	0° X		desc. node	16103 Sep 05 15:00	15° Ω 02'30	
evening rise	16101 Apr 02 11:22	5° X 36'55			16103 Sep 22 16:26	0° M	
	16101 Apr 22 07:04	0° II		morning max el	16103 Sep 28 00:39	5° M 15'36	46°55'43
	16101 May 16 16:32	0° C			16103 Oct 21 06:56	0° A	
	16101 Jun 10 02:48	0° Ω			16103 Nov 16 13:22	0° M	
	16101 Jul 04 15:54	0° M			16103 Dec 11 22:22	0° X	
asc. node	16101 Jul 11 11:59	8° M 18'23		asc. node	16103 Dec 27 14:51	18° X 50'44	
	16101 Jul 29 11:35	0° A			16104 Jan 05 20:09	0° Z	
	16101 Aug 23 20:36	0° M			16104 Jan 30 11:07	0° \approx	
	16101 Sep 19 11:12	0° X			16104 Feb 23 22:10	0° X	
evening max el	16101 Oct 03 23:18	15° X 10'00	46°38'12		16104 Mar 19 07:20	0° Υ	
	16101 Oct 19 20:34	0° Z		morning set	16104 Mar 27 15:47	10° Υ 17'26	
desc. node	16101 Oct 31 09:09	8° Z 52'11			16104 Apr 12 15:28	0° X	
greatest brilliancy	16101 Nov 12 08:37	15° Z 18'22	-4.8m	desc. node	16104 Apr 17 10:01	5° X 53'24	
retrograde	16101 Nov 23 04:51	17° Z 28'10		max. Earth dist.	16104 May 02 23:29	25° X 06'46	1.72837 AU
evening set	16101 Dec 10 17:21	11° Z 37'10					
min. Earth dist.	16101 Dec 13 15:37	9° Z 50'23	0.28085 AU	superior conj	16104 May 04 22:01	27° X 30'35	-0°41'03
inferior conj	16101 Dec 14 09:24	9° Z 22'57	-8°32'26	minimum elong	16104 May 04 13:10	27° X 03'15	0°41'13
minimum elong	16101 Dec 14 02:36	9° Z 33'26	8°31'00		16104 May 06 22:20	0° II	
morning rise	16101 Dec 17 12:07	7° Z 29'14			16104 May 31 03:30	0° C	
direct	16102 Jan 04 11:42	1° Z 27'39		evening rise	16104 Jun 12 12:08	15° C 20'39	
greatest brilliancy	16102 Jan 14 01:19	3° Z 08'33	-4.8m		16104 Jun 24 07:05	0° Ω	
	16102 Feb 20 14:19	0° \approx			16104 Jul 18 10:05	0° M	
asc. node	16102 Feb 21 09:43	0° \approx 46'27		asc. node	16104 Aug 08 01:11	25° M 36'57	
morning max el	16102 Feb 22 14:16	1° \approx 55'18	45°47'41		16104 Aug 11 14:06	0° A	
	16102 Mar 21 12:08	0° X			16104 Sep 04 21:11	0° M	
	16102 Apr 16 22:57	0° Υ			16104 Sep 29 10:34	0° X	
	16102 May 12 09:25	0° X			16104 Oct 24 12:37	0° Z	
	16102 Jun 06 06:28	0° II			16104 Nov 19 17:06	0° \approx	
desc. node	16102 Jun 13 09:26	8° II 40'58		desc. node	16104 Nov 27 20:02	8° \approx 52'00	
	16102 Jun 30 18:30	0° C		evening max el	16104 Dec 14 10:47	25° \approx 58'47	46°17'19
	16102 Jul 25 00:05	0° Ω			16104 Dec 18 15:00	0° X	
	16102 Aug 18 01:33	0° M		greatest brilliancy	16105 Jan 22 22:31	25° X 06'28	-4.8m
morning set	16102 Aug 23 19:09	7° M 10'03		retrograde	16105 Feb 01 22:04	26° X 55'57	
	16102 Sep 11 00:57	0° A		evening set	16105 Feb 18 13:34	21° X 39'32	
				inferior conj	16105 Feb 23 08:38	18° X 43'43	-5°47'27
superior conj	16102 Oct 02 10:37	26° A 48'39	-0°04'10	minimum elong	16105 Feb 23 18:58	18° X 27'31	5°44'48
minimum elong	16102 Oct 02 11:35	26° A 51'43	0°03'50	min. Earth dist.	16105 Feb 23 14:03	18° X 35'13	0.28592 AU
behind sun begin	16102 Oct 01 11:11	25° A 35'16		morning rise	16105 Mar 01 00:18	15° X 18'16	
behind sun end	16102 Oct 03 12:00	28° A 08'09		direct	16105 Mar 16 14:39	10° X 34'55	
max. Earth dist.	16102 Oct 02 22:16	27° A 25'11	1.71595 AU	asc. node	16105 Mar 20 19:34	10° X 55'11	
asc. node	16102 Oct 04 02:56	28° A 54'56		greatest brilliancy	16105 Mar 27 08:10	12° X 40'28	-4.8m
	16102 Oct 04 23:43	0° M			16105 Apr 22 13:00	0° Υ	
	16102 Oct 28 22:49	0° X		morning max el	16105 May 04 18:48	11° Υ 20'12	45°53'57
evening rise	16102 Nov 10 07:54	15° X 28'11			16105 May 22 21:13	0° X	
	16102 Nov 21 23:30	0° Z			16105 Jun 18 16:12	0° II	
	16102 Dec 16 03:43	0° \approx		desc. node	16105 Jul 10 20:45	26° II 04'50	
	16103 Jan 09 13:58	0° X			16105 Jul 14 03:26	0° C	
desc. node	16103 Jan 23 18:49	17° X 15'14			16105 Aug 07 22:06	0° Ω	
	16103 Feb 03 08:43	0° Υ			16105 Sep 01 07:26	0° M	
	16103 Feb 28 14:20	0° X			16105 Sep 25 11:51	0° A	
	16103 Mar 26 11:15	0° II			16105 Oct 19 13:58	0° M	
	16103 Apr 22 13:01	0° C		asc. node	16105 Oct 31 16:20	15° M 05'17	
evening max el	16103 May 09 06:51	17° C 12'07	46°09'53	morning set	16105 Nov 05 05:39	20° M 46'19	
asc. node	16103 May 16 14:12	24° C 09'55			16105 Nov 12 15:07	0° X	
	16103 May 23 03:21	0° Ω			16105 Dec 06 16:12	0° Z	
greatest brilliancy	16103 Jun 18 08:08	16° Ω 48'21	-4.8m				
retrograde	16103 Jun 27 18:31	18° Ω 27'50		superior conj	16105 Dec 13 15:01	8° Z 39'57	1°21'29
evening set	16103 Jul 15 21:28	12° Ω 13'49		minimum elong	16105 Dec 13 08:08	8° Z 18'29	1°22'06
inferior conj	16103 Jul 18 13:59	10° Ω 34'01	8°57'59	max. Earth dist.	16105 Dec 15 17:36	11° Z 17'29	1.72259 AU

	16105 Dec 30 18:27	0°≈		greatest brilliancy	16108 Jun 05 05:03	21°8'12"12	-4.8m
evening rise	16106 Jan 20 01:04	25°≈08'20			16108 Jun 20 20:13	0°II	
	16106 Jan 23 23:29	0°X		morning max el	16108 Jul 14 22:55	21°II'12'24	46°34'08
	16106 Feb 17 08:36	0°Y			16108 Jul 23 13:28	0°☿	
desc. node	16106 Feb 20 08:21	3°Y39'43		desc. node	16108 Aug 07 07:12	15°☿57'00	
	16106 Mar 13 22:12	0°8			16108 Aug 19 17:21	0°Ω	
	16106 Apr 07 16:11	0°II			16108 Sep 14 06:41	0°♍	
	16106 May 02 15:21	0°☿			16108 Oct 09 03:29	0°♌	
	16106 May 27 23:31	0°Ω			16108 Nov 02 16:28	0°♍	
asc. node	16106 Jun 13 01:24	18°Ω37'05			16108 Nov 27 01:17	0°♊	
	16106 Jun 23 02:52	0°♍		asc. node	16108 Nov 28 04:57	1°♊25'22	
evening max el	16106 Jul 21 02:44	29°♍50'19	46°33'25		16108 Dec 21 07:33	0°☿	
	16106 Jul 21 06:38	0°♌			16109 Jan 14 12:32	0°≈	
	16106 Aug 29 19:57	0°♍		morning set	16109 Jan 15 06:53	0°≈56'52	
greatest brilliancy	16106 Aug 29 23:42	0°♍03'27	-4.9m		16109 Feb 07 17:45	0°X	
retrograde	16106 Sep 09 04:49	2°♍01'01					
	16106 Sep 19 04:10	30°R♌		superior conj	16109 Feb 21 06:13	16°X42'59	0°59'08
evening set	16106 Sep 23 17:58	27°♌51'24		minimum elong	16109 Feb 21 16:13	17°X13'50	0°59'00
inferior conj	16106 Sep 29 21:18	24°♌17'09	0°49'32	max. Earth dist.	16109 Feb 23 02:11	18°X58'45	1.73021 AU
minimum elong	16106 Sep 29 23:15	24°♌14'10	0°49'07		16109 Mar 04 00:24	0°Y	
min. Earth dist.	16106 Sep 29 22:54	24°♌14'43	0.26928 AU		16109 Mar 19 22:12	19°Y36'39	
desc. node	16106 Oct 03 00:52	22°♌23'39			16109 Mar 28 08:42	0°8	
morning rise	16106 Oct 06 04:33	20°♌37'22		evening rise	16109 Mar 31 03:05	3°824'19	
direct	16106 Oct 20 14:42	16°♌32'08			16109 Apr 21 17:59	0°II	
greatest brilliancy	16106 Oct 30 15:06	18°♌23'37	-4.8m		16109 May 16 03:41	0°☿	
	16106 Nov 19 05:32	0°♍			16109 Jun 09 14:19	0°Ω	
morning max el	16106 Dec 09 10:15	17°♍58'47	46°25'37		16109 Jul 04 04:01	0°♍	
	16106 Dec 21 06:47	0°♊		asc. node	16109 Jul 10 13:48	7°♍46'34	
	16107 Jan 17 16:39	0°☿			16109 Jul 29 00:39	0°♌	
asc. node	16107 Jan 24 01:39	7°☿16'12			16109 Aug 23 11:23	0°♍	
	16107 Feb 12 14:49	0°≈			16109 Sep 19 05:45	0°♊	
	16107 Mar 09 19:37	0°X		evening max el	16109 Oct 01 14:08	12°♊50'40	46°38'29
	16107 Apr 03 14:59	0°Y			16109 Oct 20 06:05	0°☿	
	16107 Apr 28 04:40	0°8		desc. node	16109 Oct 30 11:04	7°☿30'59	
desc. node	16107 May 15 23:03	21°849'38		greatest brilliancy	16109 Nov 09 23:14	12°☿59'32	-4.8m
	16107 May 22 14:06	0°II		retrograde	16109 Nov 20 19:16	15°☿08'55	
morning set	16107 Jun 08 03:03	20°II27'23		evening set	16109 Dec 08 03:55	9°☿24'24	
	16107 Jun 15 19:39	0°☿		min. Earth dist.	16109 Dec 11 05:17	7°☿32'56	0.28036 AU
	16107 Jul 09 21:51	0°Ω		inferior conj	16109 Dec 11 23:34	7°☿04'41	-8°25'07
max. Earth dist.	16107 Jul 15 05:24	6°Ω38'09	1.71887 AU	minimum elong	16109 Dec 11 16:06	7°☿16'15	8°23'32
				morning rise	16109 Dec 15 04:33	5°☿07'29	
superior conj	16107 Jul 17 15:46	9°Ω40'28	-1°26'35		16109 Dec 26 14:29	30°R♊	
minimum elong	16107 Jul 17 19:52	9°Ω53'17	1°27'10	direct	16110 Jan 02 01:41	29°♊10'21	
	16107 Aug 02 21:51	0°♍			16110 Jan 08 17:13	0°☿	
evening rise	16107 Aug 26 15:25	29°♍42'13		greatest brilliancy	16110 Jan 11 14:10	0°☿49'59	-4.8m
	16107 Aug 26 21:06	0°♌		morning max el	16110 Feb 20 03:31	29°☿36'04	45°48'16
asc. node	16107 Sep 05 15:00	12°♌11'29		asc. node	16110 Feb 20 11:48	29°☿56'08	
	16107 Sep 19 20:57	0°♍			16110 Feb 20 13:24	0°≈	
	16107 Oct 13 22:50	0°♊			16110 Mar 21 04:04	0°X	
	16107 Nov 07 04:59	0°☿			16110 Apr 16 12:25	0°Y	
	16107 Dec 01 19:18	0°≈			16110 May 11 21:43	0°8	
desc. node	16107 Dec 26 07:47	29°≈12'59			16110 Jun 05 18:06	0°II	
	16107 Dec 26 23:49	0°X		desc. node	16110 Jun 12 11:15	8°II11'19	
	16108 Jan 22 04:26	0°Y			16110 Jun 30 05:45	0°☿	
	16108 Feb 19 09:10	0°8			16110 Jul 24 11:09	0°Ω	
evening max el	16108 Feb 24 11:25	5°800'33	46°00'57		16110 Aug 17 12:31	0°♍	
	16108 Mar 26 14:11	0°II		morning set	16110 Aug 21 07:42	4°♍45'00	
greatest brilliancy	16108 Apr 03 10:48	3°II38'36	-4.8m		16110 Sep 10 11:53	0°♌	
retrograde	16108 Apr 13 15:30	5°II32'45					
asc. node	16108 Apr 17 05:36	5°II17'12		superior conj	16110 Sep 29 23:18	24°♌23'56	-0°07'57
evening set	16108 Apr 28 16:52	1°II04'53		minimum elong	16110 Sep 30 01:14	24°♌29'59	0°07'37
	16108 Apr 30 14:02	30°R8		behind sun begin	16110 Sep 29 02:55	23°♌20'06	
inferior conj	16108 May 04 18:53	27°824'36	4°13'10	behind sun end	16110 Sep 30 23:33	25°♌39'52	
minimum elong	16108 May 04 10:17	27°838'05	4°10'12	max. Earth dist.	16110 Sep 30 06:47	24°♌47'22	1.71586 AU
min. Earth dist.	16108 May 04 15:38	27°829'42	0.28287 AU	asc. node	16110 Oct 03 04:48	28°♌26'37	
morning rise	16108 May 10 03:40	24°808'44			16110 Oct 04 10:37	0°♍	
direct	16108 May 25 23:29	19°814'50			16110 Oct 28 09:44	0°♊	

evening rise	16110 Nov 07 22:12	13° ♁ 08'49		desc. node	16113 Jul 09 22:37	25° ♁ 32'15	
	16110 Nov 21 10:28	0° ♁			16113 Jul 13 16:05	0° ♁	
	16110 Dec 15 14:50	0° ♁			16113 Aug 07 10:01	0° ♁	
	16111 Jan 09 01:23	0° ♁			16113 Aug 31 18:54	0° ♁	
desc. node	16111 Jan 22 20:42	16° ♁ 45'42			16113 Sep 24 23:01	0° ♁	
	16111 Feb 02 20:38	0° ♁			16113 Oct 19 00:54	0° ♁	
	16111 Feb 28 03:09	0° ♁		asc. node	16113 Oct 30 18:03	14° ♁ 36'43	
	16111 Mar 26 01:44	0° ♁		morning set	16113 Nov 02 19:36	18° ♁ 26'14	
	16111 Apr 22 07:12	0° ♁			16113 Nov 12 01:55	0° ♁	
evening max el	16111 May 06 19:51	14° ♁ 50'31	46°09'15		16113 Dec 06 02:56	0° ♁	
asc. node	16111 May 15 16:04	23° ♁ 12'48					
	16111 May 23 11:40	0° ♁		superior conj	16113 Dec 11 06:35	6° ♁ 25'29	1°20'11
greatest brilliancy	16111 Jun 15 22:07	14° ♁ 28'27	-4.8m	minimum elong	16113 Dec 10 23:04	6° ♁ 02'04	1°20'47
retrograde	16111 Jun 25 07:46	16° ♁ 07'46		max. Earth dist.	16113 Dec 13 07:49	8° ♁ 58'53	1.72234 AU
evening set	16111 Jul 13 12:21	9° ♁ 51'50			16113 Dec 30 05:10	0° ♁	
inferior conj	16111 Jul 16 04:02	8° ♁ 13'22	9°01'19	evening rise	16114 Jan 17 16:48	22° ♁ 55'19	
minimum elong	16111 Jul 16 07:02	8° ♁ 08'41	9°00'34		16114 Jan 23 10:16	0° ♁	
min. Earth dist.	16111 Jul 16 17:33	7° ♁ 52'15	0.27759 AU		16114 Feb 16 19:33	0° ♁	
morning rise	16111 Jul 19 01:35	6° ♁ 25'34		desc. node	16114 Feb 19 10:13	3° ♁ 11'51	
direct	16111 Aug 06 03:22	0° ♁ 09'46			16114 Mar 13 09:27	0° ♁	
greatest brilliancy	16111 Aug 16 08:13	2° ♁ 06'40	-4.9m		16114 Apr 07 03:55	0° ♁	
desc. node	16111 Sep 04 17:00	13° ♁ 50'55			16114 May 02 03:50	0° ♁	
	16111 Sep 22 16:45	0° ♁			16114 May 27 13:18	0° ♁	
morning max el	16111 Sep 25 14:12	2° ♁ 52'31	46°55'55	asc. node	16114 Jun 12 03:17	17° ♁ 59'18	
	16111 Oct 20 23:40	0° ♁			16114 Jun 22 19:14	0° ♁	
	16111 Nov 16 03:26	0° ♁		evening max el	16114 Jul 18 17:02	27° ♁ 29'41	46°32'49
	16111 Dec 11 11:05	0° ♁			16114 Jul 21 06:07	0° ♁	
asc. node	16111 Dec 26 16:43	18° ♁ 19'33		greatest brilliancy	16114 Aug 27 13:15	27° ♁ 39'07	-4.9m
	16112 Jan 05 08:03	0° ♁		retrograde	16114 Sep 06 18:27	29° ♁ 36'16	
	16112 Jan 29 22:31	0° ♁		evening set	16114 Sep 21 08:12	25° ♁ 24'52	
	16112 Feb 23 09:15	0° ♁		inferior conj	16114 Sep 27 09:57	21° ♁ 52'31	1°13'52
	16112 Mar 18 18:13	0° ♁		minimum elong	16114 Sep 27 12:51	21° ♁ 48'06	1°13'07
morning set	16112 Mar 25 07:47	8° ♁ 05'23		min. Earth dist.	16114 Sep 27 12:33	21° ♁ 48'33	0.26921 AU
	16112 Apr 12 02:16	0° ♁		desc. node	16114 Oct 02 02:42	19° ♁ 05'34	
desc. node	16112 Apr 16 11:44	5° ♁ 25'17		morning rise	16114 Oct 03 17:34	18° ♁ 12'29	
max. Earth dist.	16112 Apr 30 16:55	22° ♁ 58'49	1.72865 AU	direct	16114 Oct 18 03:52	14° ♁ 07'25	
				greatest brilliancy	16114 Oct 28 03:51	15° ♁ 59'04	-4.9m
superior conj	16112 May 02 12:34	25° ♁ 13'46	-0°37'50		16114 Nov 19 18:15	0° ♁	
minimum elong	16112 May 02 04:16	24° ♁ 48'05	0°38'01	morning max el	16114 Dec 07 00:52	15° ♁ 40'47	46°27'10
	16112 May 06 09:10	0° ♁			16114 Dec 21 01:43	0° ♁	
	16112 May 30 14:25	0° ♁			16115 Jan 17 07:20	0° ♁	
evening rise	16112 Jun 10 01:54	13° ♁ 00'22		asc. node	16115 Jan 23 03:40	6° ♁ 41'27	
	16112 Jun 23 18:07	0° ♁			16115 Feb 12 03:38	0° ♁	
	16112 Jul 17 21:16	0° ♁			16115 Mar 09 07:28	0° ♁	
asc. node	16112 Aug 07 03:07	25° ♁ 07'40			16115 Apr 03 02:18	0° ♁	
	16112 Aug 11 01:32	0° ♁			16115 Apr 27 15:41	0° ♁	
	16112 Sep 04 09:01	0° ♁		desc. node	16115 May 15 00:48	21° ♁ 21'34	
	16112 Sep 28 23:05	0° ♁			16115 May 22 00:57	0° ♁	
	16112 Oct 24 02:22	0° ♁		morning set	16115 Jun 05 16:05	18° ♁ 05'39	
	16112 Nov 19 09:30	0° ♁			16115 Jun 15 06:25	0° ♁	
desc. node	16112 Nov 26 21:49	8° ♁ 09'14			16115 Jul 09 08:37	0° ♁	
evening max el	16112 Dec 12 00:58	23° ♁ 41'40	46°18'11	max. Earth dist.	16115 Jul 12 17:03	4° ♁ 11'03	1.71916 AU
	16112 Dec 18 15:39	0° ♁					
greatest brilliancy	16113 Jan 20 13:32	22° ♁ 52'54	-4.8m	superior conj	16115 Jul 15 04:14	7° ♁ 15'49	-1°27'10
retrograde	16113 Jan 30 13:42	24° ♁ 43'11		minimum elong	16115 Jul 15 07:21	7° ♁ 25'33	1°27'47
evening set	16113 Feb 16 07:58	19° ♁ 22'00			16115 Aug 02 08:39	0° ♁	
inferior conj	16113 Feb 21 00:09	16° ♁ 30'41	-6°03'15	evening rise	16115 Aug 24 03:17	27° ♁ 15'09	
minimum elong	16113 Feb 21 10:38	16° ♁ 14'17	6°00'37		16115 Aug 26 07:59	0° ♁	
min. Earth dist.	16113 Feb 21 05:26	16° ♁ 22'25	0.28602 AU	asc. node	16115 Sep 04 16:49	11° ♁ 43'03	
morning rise	16113 Feb 26 13:14	13° ♁ 09'12			16115 Sep 19 07:57	0° ♁	
direct	16113 Mar 14 05:52	8° ♁ 21'49			16115 Oct 13 09:58	0° ♁	
asc. node	16113 Mar 19 21:28	8° ♁ 58'07			16115 Nov 06 16:23	0° ♁	
greatest brilliancy	16113 Mar 24 23:48	10° ♁ 27'50	-4.8m		16115 Dec 01 07:14	0° ♁	
	16113 Apr 22 17:01	0° ♁		desc. node	16115 Dec 25 09:45	28° ♁ 40'57	
morning max el	16113 May 02 10:31	9° ♁ 07'11	45°52'59		16115 Dec 26 12:46	0° ♁	
	16113 May 22 14:18	0° ♁			16116 Jan 21 19:30	0° ♁	
	16113 Jun 18 06:12	0° ♁			16116 Feb 19 05:55	0° ♁	

evening max el	16116 Feb 22 03:32	2°♄49'55	46°01'00			16118 Aug 16 23:13	0°♎	
	16116 Mar 28 14:10	0°♈		morning set		16118 Aug 18 20:01	2°♎20'01	
greatest brilliancy	16116 Apr 01 02:05	1°♈25'10	-4.8m			16118 Sep 09 22:30	0°♈	
retrograde	16116 Apr 11 06:27	3°♈18'40						
asc. node	16116 Apr 16 07:28	2°♈48'02		superior conj		16118 Sep 27 11:49	21°♈59'41	-0°11'44
	16116 Apr 24 03:54	30°♋		minimum elong		16118 Sep 27 14:43	22°♈08'44	0°11'23
evening set	16116 Apr 26 06:46	28°♋53'09		behind sun begin		16118 Sep 26 20:40	21°♈12'13	
inferior conj	16116 May 02 10:15	25°♋10'32	3°53'44	behind sun end		16118 Sep 28 08:45	23°♈05'14	
minimum elong	16116 May 02 02:11	25°♋23'14	3°50'54	max. Earth dist.		16118 Sep 27 14:39	22°♈08'32	1.71578 AU
min. Earth dist.	16116 May 02 07:10	25°♋15'22	0.28294 AU	asc. node		16118 Oct 02 06:29	27°♈58'46	
morning rise	16116 May 07 21:33	21°♋50'49				16118 Oct 03 21:12	0°♎	
direct	16116 May 23 15:13	17°♋01'00				16118 Oct 27 20:20	0°♋	
greatest brilliancy	16116 Jun 02 20:43	18°♋58'05	-4.8m	evening rise		16118 Nov 05 12:28	10°♋50'19	
	16116 Jun 21 11:23	0°♈				16118 Nov 20 21:08	0°♋	
morning max el	16116 Jul 12 13:13	18°♈54'30	46°32'34			16118 Dec 15 01:39	0°♌	
	16116 Jul 23 08:19	0°♌				16119 Jan 08 12:28	0°♌	
desc. node	16116 Aug 06 09:11	15°♌17'26		desc. node		16119 Jan 21 22:36	16°♌17'16	
	16116 Aug 19 08:04	0°♏				16119 Feb 02 08:12	0°♍	
	16116 Sep 13 19:42	0°♎				16119 Feb 27 15:35	0°♋	
	16116 Oct 08 15:35	0°♈				16119 Mar 25 15:52	0°♈	
	16116 Nov 02 04:00	0°♎				16119 Apr 22 01:19	0°♌	
	16116 Nov 26 12:23	0°♋		evening max el		16119 May 04 08:57	12°♌30'41	46°08'30
asc. node	16116 Nov 27 06:50	0°♋56'56		asc. node		16119 May 14 17:58	22°♌15'43	
	16116 Dec 20 18:20	0°♋				16119 May 23 22:20	0°♏	
morning set	16117 Jan 12 23:21	28°♋46'25		greatest brilliancy		16119 Jun 13 11:21	12°♏08'48	-4.8m
	16117 Jan 13 23:06	0°♌		retrograde		16119 Jun 22 21:23	13°♏48'48	
	16117 Feb 07 04:13	0°♌		evening set		16119 Jul 11 02:39	7°♏31'25	
				inferior conj		16119 Jul 13 18:03	5°♏53'30	9°03'35
superior conj	16117 Feb 18 22:49	14°♌33'40	1°01'34	minimum elong		16119 Jul 13 20:07	5°♏50'16	9°02'54
minimum elong	16117 Feb 19 08:50	15°♌04'37	1°01'29	min. Earth dist.		16119 Jul 14 07:00	5°♏33'16	0.27799 AU
max. Earth dist.	16117 Feb 20 21:00	16°♌56'20	1.73004 AU	morning rise		16119 Jul 16 13:28	4°♏09'01	
	16117 Mar 03 10:52	0°♍				16119 Jul 24 09:38	30°♋	
desc. node	16117 Mar 18 23:57	19°♍09'39		direct		16119 Aug 03 17:15	27°♌49'00	
	16117 Mar 27 19:16	0°♋		greatest brilliancy		16119 Aug 13 22:45	29°♌46'36	-4.9m
evening rise	16117 Mar 28 19:04	1°♋13'12				16119 Aug 14 13:01	0°♏	
	16117 Apr 21 04:44	0°♈		desc. node		16119 Sep 03 18:51	12°♏41'42	
	16117 May 15 14:41	0°♌				16119 Sep 22 15:39	0°♎	
	16117 Jun 09 01:43	0°♏		morning max el		16119 Sep 23 04:42	0°♎32'41	46°56'08
	16117 Jul 03 16:02	0°♎				16119 Oct 20 15:46	0°♈	
asc. node	16117 Jul 09 15:45	7°♎15'36				16119 Nov 15 17:00	0°♎	
	16117 Jul 28 13:38	0°♈				16119 Dec 10 23:19	0°♋	
	16117 Aug 23 02:07	0°♎		asc. node		16119 Dec 25 18:39	17°♋49'53	
	16117 Sep 19 00:33	0°♋				16120 Jan 04 19:31	0°♋	
evening max el	16117 Sep 29 04:06	10°♋29'40	46°38'42			16120 Jan 29 09:29	0°♌	
	16117 Oct 20 18:32	0°♋				16120 Feb 22 19:54	0°♌	
desc. node	16117 Oct 29 12:57	6°♋07'41				16120 Mar 18 04:41	0°♍	
greatest brilliancy	16117 Nov 07 14:19	10°♋41'44	-4.8m	morning set		16120 Mar 23 00:16	5°♍56'05	
retrograde	16117 Nov 18 09:21	12°♋50'29				16120 Apr 11 12:38	0°♋	
evening set	16117 Dec 05 14:21	7°♋12'34		desc. node		16120 Apr 15 13:33	4°♋58'57	
min. Earth dist.	16117 Dec 08 19:25	5°♋15'44	0.27984 AU	max. Earth dist.		16120 Apr 28 12:52	21°♋00'06	1.72890 AU
inferior conj	16117 Dec 09 13:47	4°♋47'21	-8°16'57					
minimum elong	16117 Dec 09 05:39	4°♋59'57	8°15'13	superior conj		16120 Apr 30 03:36	22°♋59'49	-0°34'37
morning rise	16117 Dec 12 21:11	2°♋46'26		minimum elong		16120 Apr 29 19:53	22°♋35'57	0°34'48
	16117 Dec 18 00:14	30°♋				16120 May 05 19:32	0°♈	
direct	16117 Dec 30 15:08	26°♋53'48				16120 May 30 00:52	0°♌	
greatest brilliancy	16118 Jan 09 03:43	28°♋33'02	-4.8m	evening rise		16120 Jun 07 16:09	10°♌43'02	
	16118 Jan 12 21:05	0°♋				16120 Jun 23 04:44	0°♏	
morning max el	16118 Feb 17 16:29	27°♋17'08	45°49'07			16120 Jul 17 08:06	0°♎	
asc. node	16118 Feb 19 13:40	29°♋07'18		asc. node		16120 Aug 06 04:53	24°♎38'50	
	16118 Feb 20 11:04	0°♌				16120 Aug 10 12:40	0°♈	
	16118 Mar 20 19:19	0°♌				16120 Sep 03 20:35	0°♎	
	16118 Apr 16 01:22	0°♍				16120 Sep 28 11:22	0°♋	
	16118 May 11 09:34	0°♋				16120 Oct 23 15:56	0°♋	
	16118 Jun 05 05:24	0°♈				16120 Nov 19 01:52	0°♌	
desc. node	16118 Jun 11 13:10	7°♈42'58		desc. node		16120 Nov 25 23:50	7°♌27'31	
	16118 Jun 29 16:44	0°♌		evening max el		16120 Dec 09 16:00	21°♌27'40	46°19'07
	16118 Jul 23 21:57	0°♏				16120 Dec 18 17:11	0°♌	

greatest brilliancy	16121 Jan 18 04:01	20° H 39'52	-4.8m	superior conj	16123 Jul 12 17:14	4° Ω 53'49	-1°27'34
retrograde	16121 Jan 28 05:41	22° H 31'21		minimum elong	16123 Jul 12 19:23	5° Ω 00'30	1°28'13
evening set	16121 Feb 14 02:24	17° H 05'26			16123 Aug 01 19:09	0° M	
inferior conj	16121 Feb 18 15:37	14° H 18'34	-6°18'33	evening rise	16123 Aug 21 15:32	24° M 50'08	
minimum elong	16121 Feb 19 02:10	14° H 02'05	6°16'00		16123 Aug 25 18:35	0° Ω	
min. Earth dist.	16121 Feb 18 20:23	14° H 11'07	0.28608 AU	asc. node	16123 Sep 03 18:35	11° Ω 15'20	
morning rise	16121 Feb 24 01:56	11° H 01'25			16123 Sep 18 18:41	0° M	
direct	16121 Mar 11 21:30	6° H 09'49			16123 Oct 12 20:56	0° H	
asc. node	16121 Mar 18 23:21	7° H 06'24			16123 Nov 06 03:42	0° Ω	
greatest brilliancy	16121 Mar 22 14:46	8° H 15'39	-4.8m		16123 Nov 30 19:08	0° \approx	
	16121 Apr 22 18:49	0° Y		desc. node	16123 Dec 24 11:37	28° \approx 08'36	
morning max el	16121 Apr 30 02:55	6° Y 57'17	45°52'12		16123 Dec 26 01:46	0° H	
	16121 May 22 06:31	0° H			16124 Jan 21 10:46	0° Y	
	16121 Jun 17 19:35	0° H			16124 Feb 19 03:26	0° H	
desc. node	16121 Jul 09 00:36	25° H 01'31		evening max el	16124 Feb 19 18:41	0° H 36'57	46°01'11
	16121 Jul 13 04:12	0° Ω		greatest brilliancy	16124 Mar 29 17:41	29° H 12'08	-4.8m
	16121 Aug 06 21:30	0° Ω			16124 Apr 01 06:21	0° H	
	16121 Aug 31 06:00	0° M		retrograde	16124 Apr 08 20:53	1° H 04'44	
	16121 Sep 24 09:52	0° Ω		asc. node	16124 Apr 15 09:29	0° H 13'34	
	16121 Oct 18 11:35	0° M			16124 Apr 16 04:58	30° H	
asc. node	16121 Oct 29 19:59	14° M 09'38		evening set	16124 Apr 23 20:45	26° H 41'08	
morning set	16121 Oct 31 09:08	16° M 05'34		inferior conj	16124 Apr 30 01:33	22° H 56'39	3°34'02
	16121 Nov 11 12:28	0° H		minimum elong	16124 Apr 29 18:02	23° H 08'29	3°31'19
	16121 Dec 05 13:24	0° Ω		min. Earth dist.	16124 Apr 29 22:59	23° H 00'42	0.28300 AU
				morning rise	16124 May 05 15:13	19° H 33'14	
superior conj	16121 Dec 08 21:40	4° Ω 10'17	1°18'44	direct	16124 May 21 06:25	14° H 47'10	
minimum elong	16121 Dec 08 13:34	3° Ω 45'03	1°19'19	greatest brilliancy	16124 May 31 12:53	16° H 44'40	-4.8m
max. Earth dist.	16121 Dec 10 23:41	6° Ω 46'14	1.72205 AU		16124 Jun 21 22:30	0° H	
	16121 Dec 29 15:36	0° \approx		morning max el	16124 Jul 10 02:49	16° H 35'13	46°31'14
evening rise	16122 Jan 15 08:18	20° \approx 42'25			16124 Jul 23 02:31	0° Ω	
	16122 Jan 22 20:45	0° H		desc. node	16124 Aug 05 10:59	14° Ω 38'09	
	16122 Feb 16 06:13	0° Y			16124 Aug 18 22:25	0° Ω	
desc. node	16122 Feb 18 11:58	2° Y 44'33			16124 Sep 13 08:25	0° M	
	16122 Mar 12 20:25	0° H			16124 Oct 08 03:26	0° Ω	
	16122 Apr 06 15:21	0° H			16124 Nov 01 15:19	0° M	
	16122 May 01 16:00	0° Ω			16124 Nov 25 23:21	0° H	
	16122 May 27 02:46	0° Ω		asc. node	16124 Nov 26 08:43	0° H 28'56	
asc. node	16122 Jun 11 05:18	17° Ω 22'57			16124 Dec 20 05:03	0° Ω	
	16122 Jun 22 11:24	0° M		morning set	16125 Jan 10 15:24	26° Ω 34'33	
evening max el	16122 Jul 16 07:46	25° M 11'33	46°32'03		16125 Jan 13 09:40	0° \approx	
	16122 Jul 21 06:08	0° Ω			16125 Feb 06 14:43	0° H	
greatest brilliancy	16122 Aug 25 02:58	25° Ω 16'20	-4.9m				
retrograde	16122 Sep 04 07:39	27° Ω 12'29		superior conj	16125 Feb 16 15:02	12° H 23'05	1°03'56
evening set	16122 Sep 18 22:43	22° Ω 59'16		minimum elong	16125 Feb 17 01:02	12° H 54'00	1°03'53
inferior conj	16122 Sep 24 22:39	19° Ω 28'54	1°38'00	max. Earth dist.	16125 Feb 18 13:16	14° H 45'54	1.72986 AU
minimum elong	16122 Sep 25 02:29	19° Ω 23'05	1°36'57		16125 Mar 02 21:23	0° Y	
min. Earth dist.	16122 Sep 25 02:20	19° Ω 23'19	0.26923 AU	desc. node	16125 Mar 18 01:44	18° Y 42'39	
morning rise	16122 Oct 01 06:21	15° Ω 48'38		evening rise	16125 Mar 26 10:40	29° Y 00'55	
desc. node	16122 Oct 01 04:40	15° Ω 50'52			16125 Mar 27 05:52	0° H	
direct	16122 Oct 15 17:17	11° Ω 43'40			16125 Apr 20 15:30	0° H	
greatest brilliancy	16122 Oct 25 16:47	13° Ω 35'12	-4.9m		16125 May 15 01:44	0° Ω	
	16122 Nov 20 03:27	0° M			16125 Jun 08 13:11	0° Ω	
morning max el	16122 Dec 04 14:51	13° M 21'31	46°28'33		16125 Jul 03 04:06	0° M	
	16122 Dec 20 20:00	0° H		asc. node	16125 Jul 08 17:31	6° M 43'55	
	16123 Jan 16 21:39	0° Ω			16125 Jul 28 02:41	0° Ω	
asc. node	16123 Jan 22 05:34	6° Ω 07'06			16125 Aug 22 16:58	0° M	
	16123 Feb 11 16:10	0° \approx			16125 Sep 18 19:44	0° H	
	16123 Mar 08 19:04	0° H		evening max el	16125 Sep 26 17:24	8° H 07'26	46°39'01
	16123 Apr 02 13:21	0° Y			16125 Oct 21 10:59	0° Ω	
	16123 Apr 27 02:27	0° H		desc. node	16125 Oct 28 14:56	4° Ω 42'13	
desc. node	16123 May 14 02:44	20° H 54'45		greatest brilliancy	16125 Nov 05 05:04	8° Ω 23'52	-4.8m
	16123 May 21 11:33	0° H		retrograde	16125 Nov 15 23:26	10° Ω 32'39	
morning set	16123 Jun 03 05:26	15° H 45'44		evening set	16125 Dec 03 00:45	5° Ω 00'58	
	16123 Jun 14 16:56	0° Ω		min. Earth dist.	16125 Dec 06 09:43	2° Ω 58'41	0.27940 AU
	16123 Jul 08 19:05	0° Ω		inferior conj	16125 Dec 07 04:06	2° Ω 30'19	-8°07'56
max. Earth dist.	16123 Jul 10 03:14	1° Ω 40'16	1.71940 AU	minimum elong	16125 Dec 06 19:21	2° Ω 43'50	8°06'00
				morning rise	16125 Dec 10 14:10	0° Ω 25'28	

	16125 Dec 11 07:33	30°R♄			16128 May 05 06:18	0°♊		
direct	16125 Dec 28 04:29	24°♄37'11			16128 May 29 11:44	0°♋		
greatest brilliancy	16126 Jan 06 17:57	26°♄16'48 -4.8m	evening rise		16128 Jun 05 06:04	8°♋23'31		
	16126 Jan 15 00:31	0°♋			16128 Jun 22 15:43	0°♌		
morning max el	16126 Feb 15 05:54	24°♋58'47 45°49'51			16128 Jul 16 19:18	0°♍		
asc. node	16126 Feb 18 15:32	28°♋18'51	asc. node		16128 Aug 05 06:41	24°♍09'01		
	16126 Feb 20 08:07	0°♎			16128 Aug 10 00:10	0°♎		
	16126 Mar 20 10:34	0°♏			16128 Sep 03 08:34	0°♏		
	16126 Apr 15 14:26	0°♐			16128 Sep 28 00:06	0°♑		
	16126 May 10 21:34	0°♑			16128 Oct 23 06:00	0°♒		
	16126 Jun 04 16:49	0°♊			16128 Nov 18 18:53	0°♓		
desc. node	16126 Jun 10 15:02	7°♊14'02	desc. node		16128 Nov 25 01:45	6°♓44'08		
	16126 Jun 29 03:49	0°♋	evening max el		16128 Dec 07 07:49	19°♓14'47 46°20'07		
	16126 Jul 23 08:52	0°♌			16128 Dec 18 20:31	0°♈		
morning set	16126 Aug 16 08:19	29°♌54'35	greatest brilliancy		16129 Jan 15 18:30	18°♈26'27 -4.8m		
	16126 Aug 16 10:03	0°♍	retrograde		16129 Jan 25 21:44	20°♈18'58		
	16126 Sep 09 09:16	0°♎	evening set		16129 Feb 11 21:00	14°♈48'31		
			inferior conj		16129 Feb 16 07:12	12°♈05'59 -6°33'15		
superior conj	16126 Sep 25 00:31	19°♎35'35 -0°15'29	minimum elong		16129 Feb 16 17:45	11°♈49'30 6°30'44		
minimum elong	16126 Sep 25 04:21	19°♎47'35 0°15'08	min. Earth dist.		16129 Feb 16 11:10	11°♈59'47 0.28614 AU		
behind sun begin	16126 Sep 24 19:14	19°♎19'02	morning rise		16129 Feb 21 14:35	8°♈53'15		
behind sun end	16126 Sep 25 13:28	20°♎16'09	direct		16129 Mar 09 13:40	3°♈57'32		
max. Earth dist.	16126 Sep 24 23:20	19°♎31'53 1.71569 AU	asc. node		16129 Mar 18 01:23	5°♈18'17		
asc. node	16126 Oct 01 08:24	27°♎31'15	greatest brilliancy		16129 Mar 20 05:17	6°♈02'16 -4.8m		
	16126 Oct 03 07:54	0°♏			16129 Apr 22 19:44	0°♐		
	16126 Oct 27 07:01	0°♑	morning max el		16129 Apr 27 19:08	4°♐45'49 45°51'07		
evening rise	16126 Nov 03 03:04	8°♑32'35			16129 May 21 22:57	0°♑		
	16126 Nov 20 07:54	0°♒			16129 Jun 17 09:21	0°♊		
	16126 Dec 14 12:35	0°♓	desc. node		16129 Jul 08 02:24	24°♊28'51		
	16127 Jan 07 23:44	0°♈			16129 Jul 12 16:46	0°♋		
desc. node	16127 Jan 21 00:20	15°♈47'44			16129 Aug 06 09:23	0°♌		
	16127 Feb 01 20:02	0°♐			16129 Aug 30 17:28	0°♍		
	16127 Feb 27 04:24	0°♑			16129 Sep 23 21:05	0°♎		
	16127 Mar 25 06:33	0°♊			16129 Oct 17 22:38	0°♏		
	16127 Apr 21 20:20	0°♋	morning set		16129 Oct 28 22:39	13°♏43'44		
evening max el	16127 May 01 22:49	10°♋11'51 46°07'55	asc. node		16129 Oct 28 21:48	13°♏41'05		
asc. node	16127 May 13 19:58	21°♋16'30			16129 Nov 10 23:24	0°♑		
	16127 May 24 13:21	0°♌			16129 Dec 05 00:14	0°♒		
greatest brilliancy	16127 Jun 10 23:59	9°♌47'42 -4.8m						
retrograde	16127 Jun 20 11:28	11°♌28'58	superior conj		16129 Dec 06 12:51	1°♒54'13 1°17'11		
evening set	16127 Jul 08 16:29	5°♌10'46	minimum elong		16129 Dec 06 04:13	1°♒27'18 1°17'42		
inferior conj	16127 Jul 11 08:01	3°♌32'42 9°05'04	max. Earth dist.		16129 Dec 08 16:16	4°♒34'33 1.72172 AU		
minimum elong	16127 Jul 11 09:10	3°♌30'55 9°04'23			16129 Dec 29 02:24	0°♓		
min. Earth dist.	16127 Jul 11 20:01	3°♌14'00 0.27835 AU	evening rise		16130 Jan 13 00:01	18°♓29'02		
morning rise	16127 Jul 14 01:46	1°♌50'55			16130 Jan 22 07:35	0°♈		
	16127 Jul 17 05:20	30°R♄			16130 Feb 15 17:13	0°♐		
direct	16127 Aug 01 07:41	25°♄27'30	desc. node		16130 Feb 17 13:50	2°♐16'32		
greatest brilliancy	16127 Aug 11 12:42	27°♄25'11 -4.9m			16130 Mar 12 07:45	0°♑		
	16127 Aug 17 06:32	0°♌			16130 Apr 06 03:11	0°♊		
desc. node	16127 Sep 02 20:51	11°♌33'54			16130 May 01 04:40	0°♋		
morning max el	16127 Sep 20 19:57	28°♌14'05 46°56'18			16130 May 26 16:53	0°♌		
	16127 Sep 22 13:55	0°♍	asc. node		16130 Jun 10 07:03	16°♌43'55		
	16127 Oct 20 07:50	0°♎			16130 Jun 22 04:29	0°♍		
	16127 Nov 15 06:39	0°♏	evening max el		16130 Jul 13 21:53	22°♍50'09 46°31'16		
	16127 Dec 10 11:43	0°♑			16130 Jul 21 08:10	0°♎		
asc. node	16127 Dec 24 20:29	17°♑19'23	greatest brilliancy		16130 Aug 22 17:15	22°♎52'34 -4.9m		
	16128 Jan 04 07:09	0°♒	retrograde		16130 Sep 01 20:20	24°♎46'58		
	16128 Jan 28 20:40	0°♓	evening set		16130 Sep 16 13:23	20°♎31'50		
	16128 Feb 22 06:49	0°♈	inferior conj		16130 Sep 22 11:20	17°♎03'46 2°02'01		
	16128 Mar 17 15:27	0°♐	minimum elong		16130 Sep 22 16:02	16°♎56'35 2°00'39		
morning set	16128 Mar 20 16:43	3°♐45'43	min. Earth dist.		16130 Sep 22 16:18	16°♎56'11 0.26923 AU		
	16128 Apr 10 23:22	0°♑	morning rise		16130 Sep 28 18:47	13°♎23'24		
desc. node	16128 Apr 14 15:29	4°♑31'47	desc. node		16130 Sep 30 06:40	12°♎37'42		
max. Earth dist.	16128 Apr 26 08:12	18°♑58'19 1.72914 AU	direct		16130 Oct 13 06:14	9°♎18'25		
			greatest brilliancy		16130 Oct 23 06:01	11°♎10'05 -4.9m		
superior conj	16128 Apr 27 18:21	20°♑43'47 -0°31'19			16130 Nov 20 10:38	0°♏		
minimum elong	16128 Apr 27 11:16	20°♑21'55 0°31'29	morning max el		16130 Dec 02 03:48	10°♏58'20 46°29'59		

	16130 Dec 20 14:13	0°♊			16133 Aug 22 08:20	0°♍	
	16131 Jan 16 12:09	0°♋			16133 Sep 18 15:56	0°♊	
asc. node	16131 Jan 21 07:22	5°♋31'38	evening max el		16133 Sep 24 06:43	5°♊44'06	46°39'15
	16131 Feb 11 04:57	0°♌			16133 Oct 22 10:09	0°♋	
	16131 Mar 08 06:56	0°♍	desc. node		16133 Oct 27 16:50	3°♋12'12	
	16131 Apr 02 00:42	0°♎	greatest brilliancy		16133 Nov 02 19:08	6°♋03'33	-4.8m
	16131 Apr 26 13:31	0°♏	retrograde		16133 Nov 13 13:44	8°♋13'11	
desc. node	16131 May 13 04:32	20°♏26'34	evening set		16133 Nov 30 10:47	2°♋47'34	
	16131 May 20 22:29	0°♐	min. Earth dist.		16133 Dec 03 23:32	0°♋40'09	0.27891 AU
morning set	16131 May 31 18:48	13°♐24'48	inferior conj		16133 Dec 04 18:07	0°♋11'34	-7°57'57
	16131 Jun 14 03:49	0°♑	minimum elong		16133 Dec 04 08:49	0°♋25'52	7°55'49
max. Earth dist.	16131 Jul 07 10:56	29°♑00'33			16133 Dec 05 01:37	30°♌♊	
	16131 Jul 08 05:59	0°♒	morning rise		16133 Dec 08 07:04	28°♊02'42	
			direct		16133 Dec 25 17:36	22°♊18'51	
superior conj	16131 Jul 10 06:01	2°♒29'51	greatest brilliancy		16134 Jan 04 07:44	23°♊59'02	-4.8m
minimum elong	16131 Jul 10 07:10	2°♒33'24			16134 Jan 16 10:55	0°♋	
	16131 Aug 01 06:07	0°♌	morning max el		16134 Feb 12 19:55	22°♋41'29	45°50'48
evening rise	16131 Aug 19 03:13	22°♌22'01	asc. node		16134 Feb 17 17:37	27°♋31'18	
	16131 Aug 25 05:38	0°♍			16134 Feb 20 04:36	0°♌	
asc. node	16131 Sep 02 20:28	10°♍46'37			16134 Mar 20 01:39	0°♍	
	16131 Sep 18 05:52	0°♎			16134 Apr 15 03:26	0°♎	
	16131 Oct 12 08:18	0°♏			16134 May 10 09:32	0°♏	
	16131 Nov 05 15:24	0°♐			16134 Jun 04 04:11	0°♐	
	16131 Nov 30 07:27	0°♑	desc. node		16134 Jun 09 16:50	6°♐45'02	
desc. node	16131 Dec 23 13:24	27°♑34'49			16134 Jun 28 14:53	0°♑	
	16131 Dec 25 15:13	0°♒			16134 Jul 22 19:45	0°♒	
	16132 Jan 21 02:37	0°♓	morning set		16134 Aug 13 20:50	27°♒29'53	
evening max el	16132 Feb 17 09:10	28°♓21'43			16134 Aug 15 20:51	0°♌	
	16132 Feb 19 02:05	0°♏			16134 Sep 08 20:01	0°♍	
greatest brilliancy	16132 Mar 27 09:28	26°♏59'08					
retrograde	16132 Apr 06 11:38	28°♏51'10	superior conj		16134 Sep 22 13:02	17°♏10'42	-0°19'15
asc. node	16132 Apr 14 11:23	27°♏34'29	minimum elong		16134 Sep 22 17:47	17°♏25'35	0°18'51
evening set	16132 Apr 21 11:08	24°♏28'52	max. Earth dist.		16134 Sep 22 09:55	17°♏00'56	1.71570 AU
inferior conj	16132 Apr 27 17:06	20°♏43'02	asc. node		16134 Sep 30 10:15	27°♏03'21	
minimum elong	16132 Apr 27 10:12	20°♏53'55			16134 Oct 02 18:39	0°♎	
min. Earth dist.	16132 Apr 27 15:07	20°♏46'09			16134 Oct 26 17:48	0°♏	
morning rise	16132 May 03 09:03	17°♏16'13	evening rise		16134 Oct 31 17:17	6°♏13'23	
direct	16132 May 18 21:29	12°♏33'28			16134 Nov 19 18:45	0°♐	
greatest brilliancy	16132 May 29 05:42	14°♏32'01			16134 Dec 13 23:36	0°♑	
	16132 Jun 22 06:48	0°♒			16135 Jan 07 11:03	0°♒	
morning max el	16132 Jul 07 16:32	14°♒15'34	desc. node		16135 Jan 20 02:15	15°♒18'36	
	16132 Jul 22 20:33	0°♓			16135 Feb 01 07:53	0°♓	
desc. node	16132 Aug 04 12:58	13°♓58'54			16135 Feb 26 17:15	0°♏	
	16132 Aug 18 12:57	0°♏			16135 Mar 24 21:20	0°♐	
	16132 Sep 12 21:27	0°♌			16135 Apr 21 15:46	0°♑	
	16132 Oct 07 15:39	0°♍	evening max el		16135 Apr 29 13:48	7°♑56'26	46°07'27
	16132 Nov 01 02:58	0°♎	asc. node		16135 May 12 21:49	20°♑16'13	
asc. node	16132 Nov 25 10:29	29°♎59'39			16135 May 25 09:06	0°♒	
	16132 Nov 25 10:36	0°♏	greatest brilliancy		16135 Jun 08 12:34	7°♒27'49	-4.8m
	16132 Dec 19 16:01	0°♐	retrograde		16135 Jun 18 02:01	9°♒10'29	
morning set	16133 Jan 08 07:21	24°♐21'35	evening set		16135 Jul 06 06:06	2°♒52'26	
	16133 Jan 12 20:28	0°♑	inferior conj		16135 Jul 08 22:15	1°♒13'21	9°05'35
	16133 Feb 06 01:27	0°♒	minimum elong		16135 Jul 08 22:30	1°♒12'57	9°04'54
			min. Earth dist.		16135 Jul 09 08:56	0°♒56'43	0.27867 AU
superior conj	16133 Feb 14 07:27	10°♒12'25			16135 Jul 10 21:29	30°♒♑	
minimum elong	16133 Feb 14 17:23	10°♒43'06	morning rise		16135 Jul 11 14:51	29°♑33'22	
max. Earth dist.	16133 Feb 16 05:02	12°♒33'16	direct		16135 Jul 29 22:44	23°♑07'51	
	16133 Mar 02 08:07	0°♓	greatest brilliancy		16135 Aug 09 02:09	25°♑04'36	-4.9m
desc. node	16133 Mar 17 03:40	18°♓15'34			16135 Aug 18 22:04	0°♒	
evening rise	16133 Mar 24 02:37	26°♓49'13	desc. node		16135 Sep 01 22:49	10°♒28'54	
	16133 Mar 26 16:39	0°♏	morning max el		16135 Sep 18 11:23	25°♒56'56	46°56'10
	16133 Apr 20 02:26	0°♐			16135 Sep 22 11:00	0°♌	
	16133 May 14 12:55	0°♑			16135 Oct 19 23:24	0°♍	
	16133 Jun 08 00:47	0°♒			16135 Nov 14 20:02	0°♎	
	16133 Jul 02 16:22	0°♓			16135 Dec 09 23:57	0°♏	
asc. node	16133 Jul 07 19:23	6°♓11'55	asc. node		16135 Dec 23 22:22	16°♏49'20	
	16133 Jul 27 16:02	0°♍			16136 Jan 03 18:41	0°♋	

	16136 Jan 28 07:44	0°≈	evening set	16138 Sep 14 04:17	18°♄05'45	
	16136 Feb 21 17:34	0°✠	inferior conj	16138 Sep 20 00:07	14°♄40'28	2°25'46
	16136 Mar 17 02:01	0°☿	minimum elong	16138 Sep 20 05:41	14°♄31'58	2°24'06
morning set	16136 Mar 18 09:07	1°☿35'51	min. Earth dist.	16138 Sep 20 06:40	14°♄30'27	0.26926 AU
	16136 Apr 10 09:52	0°♄	morning rise	16138 Sep 26 07:02	11°♄00'14	
desc. node	16136 Apr 13 17:11	4°♄04'39	desc. node	16138 Sep 29 08:32	9°♄30'28	
max. Earth dist.	16136 Apr 24 03:21	16°♄56'43	1.72934 AU	direct	16138 Oct 10 18:42	6°♄54'47
			greatest brilliancy	16138 Oct 20 19:49	8°♄47'15	-4.9m
superior conj	16136 Apr 25 09:10	18°♄28'47	-0°27'58		16138 Nov 20 14:57	0°♄
minimum elong	16136 Apr 25 02:45	18°♄09'01	0°28'09	morning max el	16138 Nov 29 16:04	8°♄34'56
	16136 May 04 16:50	0°♄			16138 Dec 20 07:25	0°♄
	16136 May 28 22:21	0°♄			16139 Jan 16 01:58	0°♄
evening rise	16136 Jun 02 20:12	6°♄05'28	asc. node	16139 Jan 20 09:25	4°♄58'33	
	16136 Jun 22 02:28	0°♄			16139 Feb 10 17:13	0°≈
	16136 Jul 16 06:14	0°♄			16139 Mar 07 18:21	0°✠
asc. node	16136 Aug 04 08:37	23°♄40'28			16139 Apr 01 11:40	0°☿
	16136 Aug 09 11:23	0°♄			16139 Apr 26 00:12	0°♄
	16136 Sep 02 20:15	0°♄	desc. node	16139 May 12 06:20	19°♄59'36	
	16136 Sep 27 12:33	0°♄			16139 May 20 09:01	0°♄
	16136 Oct 22 19:53	0°♄	morning set	16139 May 29 08:01	11°♄04'39	
	16136 Nov 18 11:59	0°≈			16139 Jun 13 14:16	0°♄
desc. node	16136 Nov 24 03:32	6°≈00'30	max. Earth dist.	16139 Jul 04 20:42	26°♄28'41	1.72009 AU
evening max el	16136 Dec 04 23:41	17°≈02'24	46°20'49			
	16136 Dec 19 01:30	0°✠	superior conj	16139 Jul 07 18:47	0°♄07'19	-1°27'55
greatest brilliancy	16137 Jan 13 09:23	16°✠13'35	-4.8m	minimum elong	16139 Jul 07 18:54	0°♄07'39
retrograde	16137 Jan 23 13:18	18°✠06'20			16139 Jul 07 16:27	0°♄
evening set	16137 Feb 09 15:29	12°✠31'39			16139 Jul 31 16:39	0°♄
inferior conj	16137 Feb 13 22:35	9°✠53'26	-6°47'27	evening rise	16139 Aug 16 15:00	19°♄55'38
minimum elong	16137 Feb 14 09:06	9°✠37'01	6°45'01		16139 Aug 24 16:16	0°♄
min. Earth dist.	16137 Feb 14 01:52	9°✠48'18	0.28616 AU	asc. node	16139 Sep 01 22:15	10°♄18'54
morning rise	16137 Feb 19 02:49	6°✠45'13			16139 Sep 17 16:37	0°♄
direct	16137 Mar 07 05:41	1°✠45'31			16139 Oct 11 19:15	0°♄
asc. node	16137 Mar 17 03:17	3°✠34'12			16139 Nov 05 02:40	0°♄
greatest brilliancy	16137 Mar 17 19:26	3°✠48'45	-4.8m		16139 Nov 29 19:19	0°≈
	16137 Apr 22 19:08	0°☿	desc. node	16139 Dec 22 15:23	27°≈02'56	
morning max el	16137 Apr 25 10:17	2°☿32'37	45°50'13		16139 Dec 25 04:16	0°✠
	16137 May 21 14:42	0°♄			16140 Jan 20 18:13	0°☿
	16137 Jun 16 22:36	0°♄	evening max el	16140 Feb 14 23:06	26°☿06'25	46°01'40
desc. node	16137 Jul 07 04:19	23°♄57'58			16140 Feb 19 01:16	0°♄
	16137 Jul 12 04:50	0°♄	greatest brilliancy	16140 Mar 25 00:46	24°♄46'13	-4.8m
	16137 Aug 05 20:49	0°♄	retrograde	16140 Apr 04 02:30	26°♄38'16	
	16137 Aug 30 04:30	0°♄	asc. node	16140 Apr 13 13:16	24°♄50'58	
	16137 Sep 23 07:51	0°♄	evening set	16140 Apr 19 01:31	22°♄16'39	
	16137 Oct 17 09:14	0°♄	inferior conj	16140 Apr 25 08:28	18°♄29'53	2°53'39
morning set	16137 Oct 26 12:30	11°♄24'20	minimum elong	16140 Apr 25 02:12	18°♄39'44	2°51'18
asc. node	16137 Oct 27 23:32	13°♄13'39	min. Earth dist.	16140 Apr 25 07:04	18°♄32'06	0.28319 AU
	16137 Nov 10 09:52	0°♄	morning rise	16140 May 01 02:38	15°♄00'00	
			direct	16140 May 16 12:24	10°♄20'03	
superior conj	16137 Dec 04 04:11	29°♄39'52	1°15'29	greatest brilliancy	16140 May 26 22:33	12°♄20'09
minimum elong	16137 Dec 03 19:04	29°♄11'29	1°15'59		16140 Jun 22 12:19	0°♄
	16137 Dec 04 10:38	0°♄	morning max el	16140 Jul 05 06:49	11°♄58'25	46°28'16
max. Earth dist.	16137 Dec 06 08:22	2°♄22'37	1.72144 AU		16140 Jul 22 13:47	0°♄
	16137 Dec 28 12:48	0°≈	desc. node	16140 Aug 03 14:58	13°♄21'12	
evening rise	16138 Jan 10 15:37	16°≈16'22			16140 Aug 18 02:54	0°♄
	16138 Jan 21 18:05	0°✠			16140 Sep 12 09:58	0°♄
	16138 Feb 15 03:54	0°☿			16140 Oct 07 03:23	0°♄
desc. node	16138 Feb 16 15:41	1°☿49'28			16140 Oct 31 14:11	0°♄
	16138 Mar 11 18:45	0°♄	asc. node	16140 Nov 24 12:23	29°♄31'58	
	16138 Apr 05 14:41	0°♄			16140 Nov 24 21:27	0°♄
	16138 Apr 30 17:00	0°♄			16140 Dec 19 02:36	0°♄
	16138 May 26 06:42	0°♄	morning set	16141 Jan 05 23:23	22°♄10'02	
asc. node	16138 Jun 09 08:58	16°♄06'17			16141 Jan 12 06:53	0°≈
	16138 Jun 21 21:27	0°♄			16141 Feb 05 11:47	0°✠
evening max el	16138 Jul 11 11:01	20°♄27'42	46°30'26			
	16138 Jul 21 11:07	0°♄	superior conj	16141 Feb 11 23:58	8°✠03'10	1°08'21
greatest brilliancy	16138 Aug 20 08:06	20°♄30'58	-4.9m	minimum elong	16141 Feb 12 09:45	8°✠33'26
retrograde	16138 Aug 30 08:42	22°♄23'14		max. Earth dist.	16141 Feb 13 22:16	10°✠26'18
						1.72951 AU

	16141 Mar 01 18:28	0° Υ		greatest brilliancy	16143 Aug 06 15:23	22° \mathfrak{G} 43'03	-4.9m
desc. node	16141 Mar 16 05:23	17° Υ 48'49			16143 Aug 20 01:50	0° Ω	
evening rise	16141 Mar 21 18:37	24° Υ 38'42		desc. node	16143 Sep 01 00:39	9° Ω 24'44	
	16141 Mar 26 03:07	0° \mathfrak{B}		morning max el	16143 Sep 16 02:06	23° Ω 37'35	46°56'01
	16141 Apr 19 13:05	0° Π			16143 Sep 22 07:30	0° \mathfrak{M}	
	16141 May 13 23:53	0° \mathfrak{G}			16143 Oct 19 14:48	0° \mathfrak{L}	
	16141 Jun 07 12:12	0° Ω			16143 Nov 14 09:21	0° \mathfrak{M}	
	16141 Jul 02 04:26	0° \mathfrak{M}			16143 Dec 09 12:08	0° \mathfrak{X}	
asc. node	16141 Jul 06 21:19	5° \mathfrak{M} 40'48		asc. node	16143 Dec 23 00:17	16° \mathfrak{X} 19'33	
	16141 Jul 27 05:12	0° \mathfrak{L}			16144 Jan 03 06:11	0° \mathfrak{Z}	
	16141 Aug 21 23:35	0° \mathfrak{M}			16144 Jan 27 18:47	0° \approx	
	16141 Sep 18 12:27	0° \mathfrak{X}			16144 Feb 21 04:19	0° \mathfrak{H}	
evening max el	16141 Sep 21 20:33	3° \mathfrak{X} 23'04	46°39'33	morning set	16144 Mar 16 01:44	29° \mathfrak{H} 26'29	
	16141 Oct 23 17:52	0° \mathfrak{Z}			16144 Mar 16 12:37	0° Υ	
desc. node	16141 Oct 26 18:43	1° \mathfrak{Z} 39'47			16144 Apr 09 20:25	0° \mathfrak{B}	
greatest brilliancy	16141 Oct 31 08:37	3° \mathfrak{Z} 43'15	-4.8m	desc. node	16144 Apr 12 19:01	3° \mathfrak{B} 37'47	
retrograde	16141 Nov 11 04:25	5° \mathfrak{Z} 54'15		max. Earth dist.	16144 Apr 21 21:23	14° \mathfrak{B} 51'38	1.72951 AU
evening set	16141 Nov 27 20:41	0° \mathfrak{Z} 34'31					
	16141 Nov 28 20:20	30° \mathfrak{R} \mathfrak{X}		superior conj	16144 Apr 23 00:16	16° \mathfrak{B} 14'37	-0°24'35
min. Earth dist.	16141 Dec 01 12:57	28° \mathfrak{X} 22'21	0.27841 AU	minimum elong	16144 Apr 22 18:35	15° \mathfrak{B} 57'03	0°24'48
inferior conj	16141 Dec 02 07:59	27° \mathfrak{X} 53'09	-7°46'59		16144 May 04 03:25	0° Π	
minimum elong	16141 Dec 01 22:12	28° \mathfrak{X} 08'09	7°44'42		16144 May 28 09:02	0° \mathfrak{G}	
morning rise	16141 Dec 05 23:59	25° \mathfrak{X} 40'11		evening rise	16144 May 31 10:31	3° \mathfrak{G} 47'49	
direct	16141 Dec 23 07:07	20° \mathfrak{X} 00'55			16144 Jun 21 13:19	0° Ω	
greatest brilliancy	16142 Jan 01 20:53	21° \mathfrak{X} 41'12	-4.8m		16144 Jul 15 17:19	0° \mathfrak{M}	
	16142 Jan 17 10:57	0° \mathfrak{Z}		asc. node	16144 Aug 03 10:22	23° \mathfrak{M} 10'44	
morning max el	16142 Feb 10 10:36	20° \mathfrak{Z} 26'42	45°51'50		16144 Aug 08 22:49	0° \mathfrak{L}	
asc. node	16142 Feb 16 19:27	26° \mathfrak{Z} 44'49			16144 Sep 02 08:12	0° \mathfrak{M}	
	16142 Feb 20 00:04	0° \approx			16144 Sep 27 01:19	0° \mathfrak{X}	
	16142 Mar 19 16:13	0° \mathfrak{H}			16144 Oct 22 10:07	0° \mathfrak{Z}	
	16142 Apr 14 16:04	0° Υ			16144 Nov 18 05:40	0° \approx	
	16142 May 09 21:12	0° \mathfrak{B}		desc. node	16144 Nov 23 05:33	5° \approx 16'20	
	16142 Jun 03 15:22	0° Π		evening max el	16144 Dec 02 14:46	14° \approx 47'28	46°21'39
desc. node	16142 Jun 08 18:45	6° Π 16'55			16144 Dec 19 08:55	0° \mathfrak{H}	
	16142 Jun 28 01:48	0° \mathfrak{G}		greatest brilliancy	16145 Jan 11 00:52	14° \mathfrak{H} 00'59	-4.8m
	16142 Jul 22 06:31	0° Ω		retrograde	16145 Jan 21 04:29	15° \mathfrak{H} 53'17	
morning set	16142 Aug 11 09:03	25° Ω 04'41		evening set	16145 Feb 07 10:02	10° \mathfrak{H} 14'27	
	16142 Aug 15 07:31	0° \mathfrak{M}		inferior conj	16145 Feb 11 14:02	7° \mathfrak{H} 40'34	-7°00'59
	16142 Sep 08 06:38	0° \mathfrak{L}		minimum elong	16145 Feb 12 00:24	7° \mathfrak{H} 24'20	6°58'40
				min. Earth dist.	16145 Feb 11 16:50	7° \mathfrak{H} 36'11	0.28615 AU
superior conj	16142 Sep 20 01:15	14° \mathfrak{L} 45'21	-0°22'59	morning rise	16145 Feb 16 14:54	4° \mathfrak{H} 36'56	
minimum elong	16142 Sep 20 06:53	15° \mathfrak{L} 03'02	0°22'35		16145 Feb 28 03:31	30° \mathfrak{R} \approx	
max. Earth dist.	16142 Sep 19 22:33	14° \mathfrak{L} 36'55	1.71566 AU	direct	16145 Mar 04 21:16	29° \approx 33'08	
asc. node	16142 Sep 29 11:56	26° \mathfrak{L} 35'29			16145 Mar 09 17:22	0° \mathfrak{H}	
	16142 Oct 02 05:14	0° \mathfrak{M}		greatest brilliancy	16145 Mar 15 09:49	1° \mathfrak{H} 34'57	-4.8m
	16142 Oct 26 04:25	0° \mathfrak{X}		asc. node	16145 Mar 16 05:10	1° \mathfrak{H} 53'21	
evening rise	16142 Oct 29 07:24	3° \mathfrak{X} 54'19			16145 Apr 22 17:43	0° Υ	
	16142 Nov 19 05:29	0° \mathfrak{Z}		morning max el	16145 Apr 23 00:43	0° Υ 17'02	45°49'28
	16142 Dec 13 10:30	0° \approx			16145 May 21 06:22	0° \mathfrak{B}	
	16143 Jan 06 22:15	0° \mathfrak{H}			16145 Jun 16 11:54	0° Π	
desc. node	16143 Jan 19 04:06	14° \mathfrak{H} 49'37		desc. node	16145 Jul 06 06:15	23° Π 26'42	
	16143 Jan 31 19:40	0° Υ			16145 Jul 11 17:02	0° \mathfrak{G}	
	16143 Feb 26 06:03	0° \mathfrak{B}			16145 Aug 05 08:25	0° Ω	
	16143 Mar 24 12:10	0° Π			16145 Aug 29 15:47	0° \mathfrak{M}	
	16143 Apr 21 11:43	0° \mathfrak{G}			16145 Sep 22 18:55	0° \mathfrak{L}	
evening max el	16143 Apr 27 04:57	5° \mathfrak{G} 41'39	46°06'45		16145 Oct 16 20:09	0° \mathfrak{M}	
asc. node	16143 May 11 23:44	19° \mathfrak{G} 14'38		morning set	16145 Oct 24 01:54	9° \mathfrak{M} 02'23	
	16143 May 26 12:21	0° Ω		asc. node	16145 Oct 27 01:28	12° \mathfrak{M} 45'48	
greatest brilliancy	16143 Jun 06 01:14	5° Ω 07'50	-4.8m		16145 Nov 09 20:40	0° \mathfrak{X}	
retrograde	16143 Jun 15 16:10	6° Ω 51'13					
evening set	16143 Jul 03 19:00	0° Ω 34'29		superior conj	16145 Dec 01 19:07	27° \mathfrak{X} 23'22	1°13'39
	16143 Jul 04 17:29	30° \mathfrak{R} \mathfrak{G}		minimum elong	16145 Dec 01 09:37	26° \mathfrak{X} 53'43	1°14'07
inferior conj	16143 Jul 06 12:18	28° \mathfrak{G} 53'23	9°05'07		16145 Dec 03 21:20	0° \mathfrak{Z}	
minimum elong	16143 Jul 06 11:39	28° \mathfrak{G} 54'25	9°04'26	max. Earth dist.	16145 Dec 03 21:54	0° \mathfrak{Z} 01'44	1.72109 AU
min. Earth dist.	16143 Jul 06 21:43	28° \mathfrak{G} 38'41	0.27899 AU		16145 Dec 27 23:29	0° \approx	
morning rise	16143 Jul 09 04:15	27° \mathfrak{G} 14'16		evening rise	16146 Jan 08 07:00	14° \approx 02'05	
direct	16143 Jul 27 13:36	20° \mathfrak{G} 47'41			16146 Jan 21 04:52	0° \mathfrak{H}	

	16146 Feb 14 14:54	0°♿			16148 Sep 11 22:45	0°♿		
desc. node	16146 Feb 15 17:26	1°♿21'07			16148 Oct 06 15:23	0°♿		
	16146 Mar 11 06:05	0°♿			16148 Oct 31 01:42	0°♿		
	16146 Apr 05 02:33	0°♿		asc. node	16148 Nov 23 14:15	29°♿03'10		
	16146 Apr 30 05:43	0°♿			16148 Nov 24 08:37	0°♿		
	16146 May 25 20:57	0°♿			16148 Dec 18 13:32	0°♿		
asc. node	16146 Jun 08 10:58	15°♿27'47		morning set	16149 Jan 03 15:14	19°♿56'35		
	16146 Jun 21 15:05	0°♿			16149 Jan 11 17:41	0°♿		
evening max el	16146 Jul 08 23:11	18°♿02'10	46°29'34		16149 Feb 04 22:32	0°♿		
	16146 Jul 21 16:15	0°♿						
greatest brilliancy	16146 Aug 17 22:44	18°♿08'06	-4.9m	superior conj	16149 Feb 09 16:14	5°♿51'48	1°10'24	
retrograde	16146 Aug 27 20:54	19°♿58'37		minimum elong	16149 Feb 10 01:50	6°♿21'30	1°10'29	
evening set	16146 Sep 11 19:16	15°♿38'04		max. Earth dist.	16149 Feb 11 16:14	8°♿20'16	1.72933 AU	
inferior conj	16146 Sep 17 12:52	12°♿15'59	2°49'06		16149 Mar 01 05:13	0°♿		
minimum elong	16146 Sep 17 19:15	12°♿06'14	2°47'11	desc. node	16149 Mar 15 07:11	17°♿21'08		
min. Earth dist.	16146 Sep 17 21:05	12°♿03'25	0.26938 AU	evening rise	16149 Mar 19 10:25	22°♿26'26		
morning rise	16146 Sep 23 19:03	8°♿36'18			16149 Mar 25 13:57	0°♿		
desc. node	16146 Sep 28 10:27	6°♿26'27			16149 Apr 19 00:07	0°♿		
direct	16146 Oct 08 06:52	4°♿29'32			16149 May 13 11:14	0°♿		
greatest brilliancy	16146 Oct 18 10:00	6°♿23'27	-4.9m		16149 Jun 07 00:01	0°♿		
	16146 Nov 20 18:11	0°♿			16149 Jul 01 16:57	0°♿		
morning max el	16146 Nov 27 04:52	6°♿11'10	46°33'02	asc. node	16149 Jul 05 23:05	5°♿07'56		
	16146 Dec 20 00:46	0°♿			16149 Jul 26 18:50	0°♿		
	16147 Jan 15 16:06	0°♿			16149 Aug 21 15:25	0°♿		
asc. node	16147 Jan 19 11:15	4°♿23'48			16149 Sep 18 10:00	0°♿		
	16147 Feb 10 05:48	0°♿		evening max el	16149 Sep 19 11:28	1°♿04'06	46°39'53	
	16147 Mar 07 06:06	0°♿		desc. node	16149 Oct 25 20:42	0°♿03'45		
	16147 Mar 31 22:56	0°♿			16149 Oct 25 17:31	0°♿		
	16147 Apr 25 11:13	0°♿		greatest brilliancy	16149 Oct 28 22:03	1°♿22'31	-4.8m	
desc. node	16147 May 11 08:13	19°♿31'50		retrograde	16149 Nov 08 19:32	3°♿34'51		
	16147 May 19 19:53	0°♿			16149 Nov 22 05:49	30°♿♿		
morning set	16147 May 26 21:29	8°♿44'10		evening set	16149 Nov 25 06:50	28°♿21'03		
	16147 Jun 13 01:05	0°♿		min. Earth dist.	16149 Nov 29 02:17	26°♿04'25	0.27792 AU	
max. Earth dist.	16147 Jul 02 09:07	24°♿04'03	1.72042 AU	inferior conj	16149 Nov 29 21:59	25°♿34'14	-7°35'21	
				minimum elong	16149 Nov 29 11:48	25°♿49'50	7°32'52	
superior conj	16147 Jul 05 07:54	27°♿44'45	-1°27'50	morning rise	16149 Dec 03 17:07	23°♿17'03		
minimum elong	16147 Jul 05 07:00	27°♿41'59	1°28'31	direct	16149 Dec 20 21:16	17°♿42'43		
	16147 Jul 07 03:16	0°♿		greatest brilliancy	16149 Dec 30 09:38	19°♿22'19	-4.8m	
	16147 Jul 31 03:30	0°♿			16150 Jan 18 04:58	0°♿		
evening rise	16147 Aug 14 03:10	17°♿29'32		morning max el	16150 Feb 08 01:39	18°♿11'52	45°52'40	
greatest brilliancy	16147 Aug 14 21:34	18°♿27'01	-3.9m	asc. node	16150 Feb 15 21:20	25°♿58'14		
	16147 Aug 24 03:13	0°♿			16150 Feb 19 19:21	0°♿		
asc. node	16147 Sep 01 00:02	9°♿50'06			16150 Mar 19 06:58	0°♿		
	16147 Sep 17 03:43	0°♿			16150 Apr 14 04:58	0°♿		
	16147 Oct 11 06:34	0°♿			16150 May 09 09:10	0°♿		
	16147 Nov 04 14:23	0°♿			16150 Jun 03 02:48	0°♿		
	16147 Nov 29 07:43	0°♿		desc. node	16150 Jun 07 20:36	5°♿47'45		
desc. node	16147 Dec 21 17:12	26°♿28'59			16150 Jun 27 12:58	0°♿		
	16147 Dec 24 17:56	0°♿			16150 Jul 21 17:33	0°♿		
	16148 Jan 20 10:36	0°♿		morning set	16150 Aug 08 21:23	22°♿39'06		
evening max el	16148 Feb 12 13:36	23°♿51'22	46°02'08		16150 Aug 14 18:28	0°♿		
	16148 Feb 19 02:08	0°♿			16150 Sep 07 17:31	0°♿		
greatest brilliancy	16148 Mar 22 15:37	22°♿31'54	-4.8m					
retrograde	16148 Apr 01 17:55	24°♿24'38		superior conj	16150 Sep 17 13:38	12°♿19'39	-0°26'39	
asc. node	16148 Apr 12 15:16	22°♿02'07		minimum elong	16150 Sep 17 20:08	12°♿40'02	0°26'16	
evening set	16148 Apr 16 16:12	20°♿03'18		max. Earth dist.	16150 Sep 17 10:57	12°♿11'17	1.71560 AU	
inferior conj	16148 Apr 22 23:54	16°♿15'46	2°33'05	asc. node	16150 Sep 28 13:52	26°♿07'30		
minimum elong	16148 Apr 22 18:19	16°♿24'32	2°30'56		16150 Oct 01 16:06	0°♿		
min. Earth dist.	16148 Apr 22 22:45	16°♿17'34	0.28330 AU		16150 Oct 25 15:17	0°♿		
morning rise	16148 Apr 28 20:11	12°♿43'15		evening rise	16150 Oct 26 21:40	1°♿34'58		
direct	16148 May 14 03:46	8°♿05'40			16150 Nov 18 16:25	0°♿		
greatest brilliancy	16148 May 24 15:01	10°♿07'01	-4.8m		16150 Dec 12 21:36	0°♿		
	16148 Jun 22 16:22	0°♿			16151 Jan 06 09:42	0°♿		
morning max el	16148 Jul 02 22:18	9°♿43'17	46°26'55	desc. node	16151 Jan 18 05:52	14°♿19'36		
	16148 Jul 22 07:02	0°♿			16151 Jan 31 07:44	0°♿		
desc. node	16148 Aug 02 16:42	12°♿42'05			16151 Feb 25 19:14	0°♿		
	16148 Aug 17 17:05	0°♿			16151 Mar 24 03:33	0°♿		

	16151 Apr 21 08:40	0°☿			16153 Sep 22 05:55	0°♊		
evening max el	16151 Apr 24 20:01	3°☿26'01	46°06'07		16153 Oct 16 07:00	0°♊		
asc. node	16151 May 11 01:43	18°☿11'07		morning set	16153 Oct 21 15:06	6°♊40'00		
	16151 May 28 03:58	0°♊		asc. node	16153 Oct 26 03:16	12°♊17'46		
greatest brilliancy	16151 Jun 03 14:45	2°♊48'33	-4.8m		16153 Nov 09 07:24	0°♊		
retrograde	16151 Jun 13 06:04	4°♊31'51						
	16151 Jun 28 09:44	30°♊☿		superior conj	16153 Nov 29 10:00	25°♊06'47	1°11'41	
evening set	16151 Jul 01 07:38	28°☿17'31		minimum elong	16153 Nov 29 00:08	24°♊36'00	1°12'07	
inferior conj	16151 Jul 04 02:35	26°☿33'37	9°03'45	max. Earth dist.	16153 Dec 01 08:42	27°♊32'30	1.72078 AU	
minimum elong	16151 Jul 04 01:00	26°☿36'06	9°03'02		16153 Dec 03 08:00	0°♊		
min. Earth dist.	16151 Jul 04 11:01	26°☿20'24	0.27928 AU		16153 Dec 27 10:08	0°♊		
morning rise	16151 Jul 06 18:20	24°☿54'31		evening rise	16154 Jan 05 22:27	11°♊48'11		
direct	16151 Jul 25 04:18	18°☿27'43			16154 Jan 20 15:35	0°♊		
greatest brilliancy	16151 Aug 04 05:12	20°☿21'59	-4.9m		16154 Feb 14 01:47	0°♊		
	16151 Aug 20 22:12	0°♊		desc. node	16154 Feb 14 19:18	0°♊53'33		
desc. node	16151 Aug 31 02:40	8°♊22'14			16154 Mar 10 17:18	0°♊		
morning max el	16151 Sep 13 16:03	21°♊15'49	46°55'45		16154 Apr 04 14:18	0°♊		
	16151 Sep 22 03:31	0°♊			16154 Apr 29 18:22	0°☿		
	16151 Oct 19 06:09	0°♊			16154 May 25 11:17	0°♊		
	16151 Nov 13 22:42	0°♊		asc. node	16154 Jun 07 12:44	14°♊48'30		
	16151 Dec 09 00:23	0°♊			16154 Jun 21 09:05	0°♊		
asc. node	16151 Dec 22 02:06	15°♊49'12		evening max el	16154 Jul 06 11:20	15°♊36'56	46°28'48	
	16152 Jan 02 17:44	0°♊			16154 Jul 21 23:28	0°♊		
	16152 Jan 27 05:53	0°♊		greatest brilliancy	16154 Aug 15 13:03	15°♊45'10	-4.9m	
	16152 Feb 20 15:09	0°♊		retrograde	16154 Aug 25 09:31	17°♊34'38		
morning set	16152 Mar 13 18:28	27°♊17'06		evening set	16154 Sep 09 10:24	13°♊10'26		
	16152 Mar 15 23:19	0°♊		inferior conj	16154 Sep 15 01:38	9°♊51'54	3°12'05	
	16152 Apr 09 07:05	0°♊		minimum elong	16154 Sep 15 08:47	9°♊41'00	3°09'57	
desc. node	16152 Apr 11 20:56	3°♊10'47		min. Earth dist.	16154 Sep 15 11:19	9°♊37'07	0.26952 AU	
max. Earth dist.	16152 Apr 19 13:30	12°♊40'15	1.72970 AU	morning rise	16154 Sep 21 06:54	6°♊13'23		
				desc. node	16154 Sep 27 12:28	3°♊28'03		
superior conj	16152 Apr 20 15:26	14°♊00'19	-0°21'12	direct	16154 Oct 05 19:10	2°♊04'37		
minimum elong	16152 Apr 20 10:30	13°♊45'04	0°21'24	greatest brilliancy	16154 Oct 16 00:04	4°♊00'10	-4.9m	
	16152 May 03 14:08	0°♊			16154 Nov 20 19:38	0°♊		
	16152 May 27 19:50	0°☿		morning max el	16154 Nov 24 18:37	3°♊50'20	46°34'30	
evening rise	16152 May 29 00:48	1°☿29'47			16154 Dec 19 17:30	0°♊		
	16152 Jun 21 00:15	0°♊			16155 Jan 15 05:51	0°♊		
	16152 Jul 15 04:29	0°♊		asc. node	16155 Jan 18 13:06	3°♊49'57		
asc. node	16152 Aug 02 12:12	22°♊41'02			16155 Feb 09 18:06	0°♊		
	16152 Aug 08 10:21	0°♊			16155 Mar 06 17:36	0°♊		
	16152 Sep 01 20:16	0°♊			16155 Mar 31 09:58	0°♊		
	16152 Sep 26 14:13	0°♊			16155 Apr 24 21:59	0°♊		
	16152 Oct 22 00:35	0°♊		desc. node	16155 May 10 10:01	19°♊04'34		
	16152 Nov 17 23:51	0°♊			16155 May 19 06:30	0°♊		
desc. node	16152 Nov 22 07:27	4°♊31'09		morning set	16155 May 24 11:11	6°♊25'17		
evening max el	16152 Nov 30 05:07	12°♊30'27	46°22'30		16155 Jun 12 11:40	0°☿		
	16152 Dec 19 19:04	0°♊		max. Earth dist.	16155 Jun 29 23:28	21°☿46'04	1.72079 AU	
greatest brilliancy	16153 Jan 08 16:51	11°♊49'03	-4.8m					
retrograde	16153 Jan 18 19:31	13°♊40'43		superior conj	16155 Jul 02 20:55	25°☿22'35	-1°27'36	
evening set	16153 Feb 05 04:38	7°♊57'44		minimum elong	16155 Jul 02 19:03	25°☿16'45	1°28'17	
inferior conj	16153 Feb 09 05:36	5°♊28'18	-7°13'49		16155 Jul 06 13:52	0°♊		
minimum elong	16153 Feb 09 15:46	5°♊12'23	7°11'37		16155 Jul 30 14:11	0°♊		
min. Earth dist.	16153 Feb 09 08:09	5°♊24'19	0.28612 AU	evening rise	16155 Aug 11 15:05	15°♊03'13		
morning rise	16153 Feb 14 03:00	2°♊29'24		greatest brilliancy	16155 Aug 14 07:09	18°♊23'29	-3.9m	
	16153 Feb 18 22:36	30°♊☿			16155 Aug 23 13:59	0°♊		
direct	16153 Mar 02 12:24	27°♊21'13		asc. node	16155 Aug 31 01:55	9°♊22'14		
greatest brilliancy	16153 Mar 13 00:45	29°♊22'12	-4.8m		16155 Sep 16 14:37	0°♊		
	16153 Mar 14 15:26	0°♊			16155 Oct 10 17:42	0°♊		
asc. node	16153 Mar 15 07:12	0°♊16'41			16155 Nov 04 01:55	0°♊		
morning max el	16153 Apr 20 14:47	28°♊00'41	45°48'40		16155 Nov 28 19:57	0°♊		
	16153 Apr 22 15:21	0°♊		desc. node	16155 Dec 20 19:01	25°♊55'33		
	16153 May 20 21:47	0°♊			16155 Dec 24 07:29	0°♊		
	16153 Jun 16 01:07	0°♊			16156 Jan 20 03:02	0°♊		
desc. node	16153 Jul 05 08:02	22°♊55'06		evening max el	16156 Feb 10 05:06	21°♊39'33	46°02'38	
	16153 Jul 11 05:12	0°☿			16156 Feb 19 04:01	0°♊		
	16153 Aug 04 19:59	0°♊		greatest brilliancy	16156 Mar 20 06:12	20°♊18'18	-4.8m	
	16153 Aug 29 03:00	0°♊		retrograde	16156 Mar 30 09:45	22°♊11'51		

asc. node	16156 Apr 11 17:11	19°♄10'10		minimum elong	16158 Sep 15 09:22	10°♊18'13	0°29'53
evening set	16156 Apr 14 07:06	17°♄50'47		max. Earth dist.	16158 Sep 14 22:38	9°♊44'33	1.71558 AU
inferior conj	16156 Apr 20 15:18	14°♄02'35	2°12'19	asc. node	16158 Sep 27 15:40	25°♊40'16	
minimum elong	16156 Apr 20 10:25	14°♄10'14	2°10'22		16158 Oct 01 02:36	0°♋	
min. Earth dist.	16156 Apr 20 14:10	14°♄04'20	0.28338 AU	evening rise	16158 Oct 24 11:39	29°♋15'36	
morning rise	16156 Apr 26 13:34	10°♄27'42			16158 Oct 25 01:51	0°♌	
direct	16156 May 11 19:31	5°♄52'32			16158 Nov 18 03:04	0°♍	
greatest brilliancy	16156 May 22 06:48	7°♄54'19	-4.8m		16158 Dec 12 08:26	0°♎	
	16156 Jun 22 18:17	0°♎			16159 Jan 05 20:52	0°♏	
morning max el	16156 Jun 30 14:19	7°♎30'43	46°25'24	desc. node	16159 Jan 17 07:47	13°♏50'53	
	16156 Jul 21 23:33	0°♏			16159 Jan 30 19:33	0°♐	
desc. node	16156 Aug 01 18:45	12°♏05'13			16159 Feb 25 08:13	0°♑	
	16156 Aug 17 06:48	0°♑			16159 Mar 23 18:51	0°♒	
	16156 Sep 11 11:12	0°♒			16159 Apr 21 06:03	0°♓	
	16156 Oct 06 03:06	0°♓		evening max el	16159 Apr 22 10:25	1°♓09'32	46°05'29
	16156 Oct 30 12:55	0°♋		asc. node	16159 May 10 03:34	17°♓06'34	
asc. node	16156 Nov 22 16:02	28°♋35'02			16159 May 30 18:56	0°♌	
	16156 Nov 23 19:29	0°♌		greatest brilliancy	16159 Jun 01 04:50	0°♌30'53	-4.8m
	16156 Dec 18 00:10	0°♍		retrograde	16159 Jun 10 19:33	2°♌13'44	
morning set	16157 Jan 01 06:54	17°♍43'33			16159 Jun 21 07:51	30°♌	
	16157 Jan 11 04:11	0°♎		evening set	16159 Jun 28 19:53	26°♌02'31	
	16157 Feb 04 08:58	0°♏		inferior conj	16159 Jul 01 16:55	24°♌15'17	9°01'35
				minimum elong	16159 Jul 01 14:26	24°♌19'11	9°00'48
superior conj	16157 Feb 07 08:25	3°♏41'06	1°12'22	min. Earth dist.	16159 Jul 02 00:46	24°♌02'59	0.27952 AU
minimum elong	16157 Feb 07 17:46	4°♏10'03	1°12'30	morning rise	16159 Jul 04 08:56	22°♌35'33	
max. Earth dist.	16157 Feb 09 11:37	6°♏19'31	1.72915 AU	direct	16159 Jul 22 18:31	16°♌09'06	
	16157 Feb 28 15:40	0°♐		greatest brilliancy	16159 Aug 01 19:35	18°♌02'59	-4.9m
desc. node	16157 Mar 14 09:05	16°♐54'42			16159 Aug 21 12:39	0°♍	
evening rise	16157 Mar 17 02:14	20°♐15'07		desc. node	16159 Aug 30 04:37	7°♍22'31	
	16157 Mar 25 00:29	0°♑		morning max el	16159 Sep 11 05:15	18°♍53'30	46°55'33
	16157 Apr 18 10:50	0°♒			16159 Sep 21 22:25	0°♒	
	16157 May 12 22:14	0°♓			16159 Oct 18 20:50	0°♓	
	16157 Jun 06 11:28	0°♌			16159 Nov 13 11:35	0°♋	
	16157 Jul 01 05:06	0°♎			16159 Dec 08 12:16	0°♌	
asc. node	16157 Jul 05 00:59	4°♎36'35		asc. node	16159 Dec 21 03:59	15°♌19'59	
	16157 Jul 26 08:12	0°♓			16160 Jan 02 05:00	0°♍	
	16157 Aug 21 07:10	0°♋			16160 Jan 26 16:43	0°♎	
evening max el	16157 Sep 17 02:55	28°♋47'06	46°40'00		16160 Feb 20 01:43	0°♏	
	16157 Sep 18 08:08	0°♌		morning set	16160 Mar 11 10:55	25°♏07'40	
desc. node	16157 Oct 24 22:37	28°♌24'21			16160 Mar 15 09:45	0°♐	
greatest brilliancy	16157 Oct 26 11:46	29°♌02'17	-4.8m		16160 Apr 08 17:30	0°♑	
	16157 Oct 29 07:14	0°♒		desc. node	16160 Apr 10 22:37	2°♑43'52	
retrograde	16157 Nov 06 10:20	1°♒15'05		max. Earth dist.	16160 Apr 17 05:30	10°♑29'22	1.72990 AU
	16157 Nov 14 06:24	30°♒					
evening set	16157 Nov 22 16:49	26°♒07'32		superior conj	16160 Apr 18 06:28	11°♒46'26	-0°17'46
min. Earth dist.	16157 Nov 26 15:33	23°♒46'07	0.27740 AU	minimum elong	16160 Apr 18 02:17	11°♒33'33	0°17'58
inferior conj	16157 Nov 27 11:43	23°♒15'14	-7°22'47		16160 May 03 00:36	0°♒	
minimum elong	16157 Nov 27 01:13	23°♒31'18	7°20'08	evening rise	16160 May 26 15:06	29°♒12'37	
morning rise	16157 Dec 01 10:03	20°♒53'33			16160 May 27 06:24	0°♓	
direct	16157 Dec 18 11:15	15°♒24'39			16160 Jun 20 10:58	0°♌	
greatest brilliancy	16157 Dec 27 21:54	17°♒03'04	-4.8m		16160 Jul 14 15:25	0°♎	
	16158 Jan 18 18:02	0°♓		asc. node	16160 Aug 01 14:07	22°♎12'25	
morning max el	16158 Feb 05 15:57	15°♓56'04	45°53'32		16160 Aug 07 21:37	0°♓	
asc. node	16158 Feb 14 23:25	25°♓13'49			16160 Sep 01 08:02	0°♋	
	16158 Feb 19 13:43	0°♎			16160 Sep 26 02:51	0°♌	
	16158 Mar 18 21:11	0°♏			16160 Oct 21 14:52	0°♍	
	16158 Apr 13 17:25	0°♐			16160 Nov 17 18:09	0°♎	
	16158 May 08 20:43	0°♑		desc. node	16160 Nov 21 09:16	3°♎45'58	
	16158 Jun 02 13:52	0°♒		evening max el	16160 Nov 27 18:50	10°♎12'35	46°23'12
desc. node	16158 Jun 06 22:24	5°♒19'38			16160 Dec 20 08:28	0°♏	
	16158 Jun 26 23:45	0°♓		greatest brilliancy	16161 Jan 06 08:32	9°♏36'58	-4.8m
	16158 Jul 21 04:10	0°♌		retrograde	16161 Jan 16 10:25	11°♏28'29	
morning set	16158 Aug 06 09:59	20°♌15'38		evening set	16161 Feb 02 23:04	5°♏41'01	
	16158 Aug 14 05:00	0°♎		inferior conj	16161 Feb 06 21:05	3°♏16'12	-7°26'01
	16158 Sep 07 04:00	0°♓		minimum elong	16161 Feb 07 06:59	3°♏00'42	7°23'56
				min. Earth dist.	16161 Feb 06 23:31	3°♏12'23	0.28613 AU
superior conj	16158 Sep 15 02:04	9°♓55'20	-0°30'17	morning rise	16161 Feb 11 14:56	0°♏22'20	

	16161 Feb 12 06:30	30° \approx	evening rise	16163 Aug 09 02:56	12° \approx 36'27	
direct	16161 Feb 28 03:12	25° \approx 09'11	greatest brilliancy	16163 Aug 14 16:03	19° \approx 32'28	-3.9m
greatest brilliancy	16161 Mar 10 16:06	27° \approx 10'09		16163 Aug 23 00:52	0° \approx	
asc. node	16161 Mar 14 09:04	28° \approx 43'27	asc. node	16163 Aug 30 03:42	8° \approx 53'39	
	16161 Mar 16 22:00	0° \approx		16163 Sep 16 01:40	0° \approx	
morning max el	16161 Apr 18 05:08	25° \approx 45'23		16163 Oct 10 04:58	0° \approx	
	16161 Apr 22 12:02	0° \approx		16163 Nov 03 13:34	0° \approx	
	16161 May 20 12:49	0° \approx		16163 Nov 28 08:17	0° \approx	
desc. node	16161 Jun 15 14:04	0° \approx	desc. node	16163 Dec 19 21:01	25° \approx 22'26	
	16161 Jul 04 09:59	22° \approx 24'32		16163 Dec 23 21:10	0° \approx	
	16161 Jul 10 17:08	0° \approx		16164 Jan 19 19:48	0° \approx	
	16161 Aug 04 07:22	0° \approx	evening max el	16164 Feb 07 21:23	19° \approx 29'39	46°03'01
	16161 Aug 28 14:02	0° \approx		16164 Feb 19 07:30	0° \approx	
	16161 Sep 21 16:44	0° \approx	greatest brilliancy	16164 Mar 17 20:55	18° \approx 04'48	-4.8m
	16161 Oct 15 17:38	0° \approx	retrograde	16164 Mar 28 01:30	19° \approx 58'44	
morning set	16161 Oct 19 04:40	4° \approx 19'20	asc. node	16164 Apr 10 19:03	16° \approx 14'21	
asc. node	16161 Oct 25 05:00	11° \approx 50'12	evening set	16164 Apr 11 22:19	15° \approx 37'59	
	16161 Nov 08 17:55	0° \approx	inferior conj	16164 Apr 18 06:46	11° \approx 49'09	1°51'15
			minimum elong	16164 Apr 18 02:38	11° \approx 55'38	1°49'34
superior conj	16161 Nov 27 01:12	22° \approx 51'52	min. Earth dist.	16164 Apr 18 05:39	11° \approx 50'53	0.28349 AU
minimum elong	16161 Nov 26 15:01	22° \approx 20'06	morning rise	16164 Apr 24 06:52	8° \approx 11'55	
max. Earth dist.	16161 Nov 28 20:05	25° \approx 05'40	direct	16164 May 09 11:41	3° \approx 39'13	
	16161 Dec 02 18:26	0° \approx	greatest brilliancy	16164 May 19 22:26	5° \approx 40'51	-4.8m
	16161 Dec 26 20:36	0° \approx		16164 Jun 22 19:09	0° \approx	
evening rise	16162 Jan 03 14:12	9° \approx 35'47	morning max el	16164 Jun 28 06:08	5° \approx 17'07	46°23'47
	16162 Jan 20 02:10	0° \approx		16164 Jul 21 16:01	0° \approx	
desc. node	16162 Feb 13 21:10	0° \approx	desc. node	16164 Jul 31 20:42	11° \approx 27'44	
	16162 Feb 13 12:36	0° \approx		16164 Aug 16 20:38	0° \approx	
	16162 Mar 10 04:28	0° \approx		16164 Sep 10 23:48	0° \approx	
	16162 Apr 04 02:02	0° \approx		16164 Oct 05 15:00	0° \approx	
	16162 Apr 29 07:04	0° \approx		16164 Oct 30 00:20	0° \approx	
asc. node	16162 May 25 01:45	0° \approx	asc. node	16164 Nov 21 17:56	28° \approx 06'31	
	16162 Jun 06 14:40	14° \approx 09'25		16164 Nov 23 06:34	0° \approx	
	16162 Jun 21 03:32	0° \approx		16164 Dec 17 11:01	0° \approx	
evening max el	16162 Jul 04 00:15	13° \approx 13'49	morning set	16164 Dec 29 22:50	15° \approx 30'40	
	16162 Jul 22 09:25	0° \approx		16165 Jan 10 14:52	0° \approx	
greatest brilliancy	16162 Aug 13 02:49	13° \approx 21'44		16165 Feb 03 19:35	0° \approx	
retrograde	16162 Aug 22 22:38	15° \approx 10'47				
evening set	16162 Sep 07 01:43	10° \approx 42'35	superior conj	16165 Feb 05 01:00	1° \approx 31'04	1°14'12
inferior conj	16162 Sep 12 14:23	7° \approx 27'44	minimum elong	16165 Feb 05 10:02	1° \approx 59'00	1°14'22
minimum elong	16162 Sep 12 22:15	7° \approx 15'45	max. Earth dist.	16165 Feb 07 08:13	4° \approx 21'54	1.72891 AU
min. Earth dist.	16162 Sep 13 01:15	7° \approx 11'11		16165 Feb 28 02:18	0° \approx	
morning rise	16162 Sep 18 18:29	3° \approx 50'57	desc. node	16165 Mar 13 10:49	16° \approx 27'07	
desc. node	16162 Sep 26 14:20	0° \approx 35'20	evening rise	16165 Mar 14 18:22	18° \approx 04'09	
	16162 Sep 29 06:11	30° \approx		16165 Mar 24 11:14	0° \approx	
direct	16162 Oct 03 08:01	29° \approx 39'43		16165 Apr 17 21:49	0° \approx	
	16162 Oct 07 11:56	0° \approx		16165 May 12 09:34	0° \approx	
greatest brilliancy	16162 Oct 13 13:38	1° \approx 36'28		16165 May 05 23:17	0° \approx	
	16162 Nov 20 19:42	0° \approx		16165 Jun 30 17:40	0° \approx	
morning max el	16162 Nov 22 09:17	1° \approx 32'03	asc. node	16165 Jul 04 02:53	4° \approx 04'05	
	16162 Dec 19 09:47	0° \approx		16165 Jul 25 22:03	0° \approx	
	16163 Jan 14 19:21	0° \approx		16165 Aug 20 23:36	0° \approx	
asc. node	16163 Jan 17 15:07	3° \approx 17'07	evening max el	16165 Sep 14 17:59	26° \approx 27'56	46°40'02
	16163 Feb 09 06:16	0° \approx		16165 Sep 18 07:41	0° \approx	
	16163 Mar 06 05:03	0° \approx	greatest brilliancy	16165 Oct 24 02:07	26° \approx 41'28	-4.8m
	16163 Mar 30 21:01	0° \approx	desc. node	16165 Oct 24 00:30	26° \approx 39'55	
	16163 Apr 24 08:47	0° \approx	retrograde	16165 Nov 04 00:36	28° \approx 53'45	
desc. node	16163 May 09 11:51	18° \approx 37'12	evening set	16165 Nov 20 02:50	23° \approx 52'37	
	16163 May 18 17:11	0° \approx	min. Earth dist.	16165 Nov 24 05:14	21° \approx 25'50	0.27685 AU
morning set	16163 May 22 00:53	4° \approx 06'15	inferior conj	16165 Nov 25 01:22	20° \approx 54'57	-7°09'20
	16163 Jun 11 22:18	0° \approx	minimum elong	16165 Nov 24 14:39	21° \approx 11'24	7°06'33
max. Earth dist.	16163 Jun 27 14:36	19° \approx 30'25	morning rise	16165 Nov 29 02:54	18° \approx 28'32	
			direct	16165 Dec 16 00:55	13° \approx 05'16	
superior conj	16163 Jun 30 09:46	22° \approx 59'45	greatest brilliancy	16165 Dec 25 10:37	14° \approx 42'48	-4.8m
minimum elong	16163 Jun 30 06:55	22° \approx 50'52		16166 Jan 19 04:10	0° \approx	
	16163 Jul 06 00:33	0° \approx	morning max el	16166 Feb 03 05:25	13° \approx 37'10	45°54'38
	16163 Jul 30 00:57	0° \approx	asc. node	16166 Feb 14 01:13	24° \approx 28'26	

	16166 Feb 19 07:58	0°♊			16168 Sep 25 16:05	0°♊	
	16166 Mar 18 11:30	0°♋			16168 Oct 21 05:53	0°♌	
	16166 Apr 13 06:04	0°♍			16168 Nov 17 13:34	0°♎	
	16166 May 08 08:32	0°♎		desc. node	16168 Nov 20 11:18	2°♎59'11	
	16166 Jun 02 01:15	0°♏		evening max el	16168 Nov 25 08:24	7°♎52'48	46°24'06
desc. node	16166 Jun 06 00:21	4°♏50'56			16168 Dec 21 03:28	0°♐	
	16166 Jun 26 10:54	0°♑		greatest brilliancy	16169 Jan 03 23:28	7°♐22'30	-4.8m
	16166 Jul 20 15:12	0°♒		retrograde	16169 Jan 14 01:37	9°♐14'47	
morning set	16166 Aug 03 22:12	17°♒49'39		evening set	16169 Jan 31 17:21	3°♐22'35	
	16166 Aug 13 15:57	0°♓		inferior conj	16169 Feb 04 12:26	1°♐02'26	-7°37'34
	16166 Sep 06 14:55	0°♑		minimum elong	16169 Feb 04 22:00	0°♐47'28	7°35'37
				min. Earth dist.	16169 Feb 04 14:31	0°♐59'09	0.28611 AU
superior conj	16166 Sep 12 14:13	7°♑28'50	-0°33'53		16169 Feb 06 04:29	30°♑	
minimum elong	16166 Sep 12 22:16	7°♑54'03	0°33'28	morning rise	16169 Feb 09 02:41	28°♑14'00	
max. Earth dist.	16166 Sep 12 07:33	7°♑07'57	1.71555 AU	direct	16169 Feb 25 17:56	22°♑55'27	
asc. node	16166 Sep 26 17:24	25°♑11'25		greatest brilliancy	16169 Mar 08 07:17	24°♑56'42	-4.8m
	16166 Sep 30 13:31	0°♒		asc. node	16169 Mar 13 11:00	27°♑12'14	
evening rise	16166 Oct 22 01:21	26°♒54'06			16169 Mar 18 09:55	0°♋	
	16166 Oct 24 12:49	0°♊		morning max el	16169 Apr 15 20:24	23°♋31'19	45°47'37
	16166 Nov 17 14:09	0°♌			16169 Apr 22 08:25	0°♍	
	16166 Dec 11 19:43	0°♍			16169 May 20 03:55	0°♎	
	16167 Jan 05 08:30	0°♋			16169 Jun 15 03:09	0°♏	
desc. node	16167 Jan 16 09:39	13°♋20'43		desc. node	16169 Jul 03 11:54	21°♏53'21	
	16167 Jan 30 07:49	0°♍			16169 Jul 10 05:14	0°♑	
	16167 Feb 24 21:40	0°♎			16169 Aug 03 18:56	0°♒	
	16167 Mar 23 10:42	0°♏			16169 Aug 28 01:19	0°♓	
evening max el	16167 Apr 19 23:59	28°♏50'20	46°04'52		16169 Sep 21 03:51	0°♑	
	16167 Apr 21 04:38	0°♑			16169 Oct 15 04:38	0°♒	
asc. node	16167 May 09 05:31	15°♑59'47		morning set	16169 Oct 16 17:49	1°♒56'10	
greatest brilliancy	16167 May 29 18:56	28°♑12'31	-4.8m	asc. node	16169 Oct 24 06:57	11°♒22'03	
retrograde	16167 Jun 08 09:01	29°♑55'14			16169 Nov 08 04:48	0°♊	
evening set	16167 Jun 26 07:46	23°♑47'28					
inferior conj	16167 Jun 29 07:26	21°♑56'17	8°58'21	superior conj	16169 Nov 24 15:47	20°♊33'46	1°07'23
minimum elong	16167 Jun 29 04:04	22°♑01'33	8°57'29	minimum elong	16169 Nov 24 05:23	20°♊01'16	1°07'46
min. Earth dist.	16167 Jun 29 14:51	21°♑44'38	0.27982 AU	max. Earth dist.	16169 Nov 26 07:59	22°♊39'14	1.72025 AU
morning rise	16167 Jul 02 00:17	20°♑15'10			16169 Dec 02 05:15	0°♌	
direct	16167 Jul 20 08:41	13°♑49'30			16169 Dec 26 07:25	0°♍	
greatest brilliancy	16167 Jul 30 10:52	15°♑43'57	-4.9m	evening rise	16170 Jan 01 05:33	7°♍21'00	
	16167 Aug 22 00:01	0°♒			16170 Jan 19 13:05	0°♋	
desc. node	16167 Aug 29 06:28	6°♒22'31		desc. node	16170 Feb 12 22:55	29°♋57'30	
morning max el	16167 Sep 08 18:39	16°♒30'03	46°55'14		16170 Feb 12 23:44	0°♍	
	16167 Sep 21 17:25	0°♓			16170 Mar 09 15:57	0°♎	
	16167 Oct 18 11:53	0°♑			16170 Apr 03 14:06	0°♏	
	16167 Nov 13 00:52	0°♒			16170 Apr 28 20:05	0°♑	
	16167 Dec 08 00:33	0°♊			16170 May 24 16:34	0°♒	
asc. node	16167 Dec 20 05:55	14°♊49'39		asc. node	16170 Jun 05 16:39	13°♒29'49	
	16168 Jan 01 16:38	0°♌			16170 Jun 20 22:34	0°♓	
	16168 Jan 26 03:57	0°♍		evening max el	16170 Jul 01 14:04	10°♓53'01	46°27'24
	16168 Feb 19 12:41	0°♋			16170 Jul 22 22:52	0°♑	
morning set	16168 Mar 09 03:36	22°♋57'38		greatest brilliancy	16170 Aug 10 15:56	10°♑57'47	-4.9m
	16168 Mar 14 20:35	0°♍		retrograde	16170 Aug 20 12:04	12°♑46'52	
	16168 Apr 08 04:17	0°♎		evening set	16170 Sep 04 17:17	8°♑14'36	
desc. node	16168 Apr 10 00:30	2°♎16'25		inferior conj	16170 Sep 10 03:12	5°♑03'20	3°56'57
max. Earth dist.	16168 Apr 14 22:55	8°♎21'47	1.73005 AU	minimum elong	16170 Sep 10 11:43	4°♑50'21	3°54'24
				min. Earth dist.	16170 Sep 10 14:47	4°♑45'41	0.26990 AU
superior conj	16168 Apr 15 21:54	9°♎32'45	-0°14'19	morning rise	16170 Sep 16 05:55	1°♑28'37	
minimum elong	16168 Apr 15 18:30	9°♎22'15	0°14'33		16170 Sep 19 05:03	30°♑	
behind sun begin	16168 Apr 15 08:33	8°♎51'32		desc. node	16170 Sep 25 16:17	27°♑48'08	
behind sun end	16168 Apr 16 04:27	9°♎52'58		direct	16170 Sep 30 21:30	27°♑14'43	
	16168 May 02 11:24	0°♏		greatest brilliancy	16170 Oct 11 02:46	29°♑11'48	-4.9m
evening rise	16168 May 24 05:54	26°♏56'11			16170 Oct 13 03:38	0°♑	
	16168 May 26 17:17	0°♑		morning max el	16170 Nov 20 00:21	29°♑13'56	46°37'22
	16168 Jun 19 22:01	0°♒			16170 Nov 20 19:00	0°♒	
	16168 Jul 14 02:45	0°♓			16170 Dec 19 02:06	0°♊	
asc. node	16168 Jul 31 15:52	21°♓41'58			16171 Jan 14 09:03	0°♌	
	16168 Aug 07 09:21	0°♑		asc. node	16171 Jan 16 16:57	2°♌43'00	
	16168 Aug 31 20:21	0°♒			16171 Feb 08 18:39	0°♍	

	16171 Mar 05 16:40	0° H		greatest brilliancy	16173 Oct 21 16:58	24° J 22'39	-4.9m
	16171 Mar 30 08:12	0° Y		desc. node	16173 Oct 23 02:29	24° J 53'05	
	16171 Apr 23 19:42	0° B		retrograde	16173 Nov 01 14:23	26° J 34'03	
desc. node	16171 May 08 13:43	18° B 09'34		evening set	16173 Nov 17 13:08	21° J 39'06	
	16171 May 18 03:58	0° II		min. Earth dist.	16173 Nov 21 19:24	19° J 06'50	0.27633 AU
morning set	16171 May 19 14:40	1° II 47'11		inferior conj	16173 Nov 22 15:13	18° J 36'23	-6°55'12
	16171 Jun 11 09:02	0° E		minimum elong	16173 Nov 22 04:19	18° J 53'09	6°52'16
max. Earth dist.	16171 Jun 25 04:15	17° E 09'59	1.72141 AU	morning rise	16173 Nov 26 19:55	16° J 05'13	
				direct	16173 Dec 13 14:21	10° J 47'28	
superior conj	16171 Jun 27 22:54	20° E 37'37	-1°26'39	greatest brilliancy	16173 Dec 23 00:10	12° J 24'47	-4.8m
minimum elong	16171 Jun 27 19:06	20° E 25'47	1°27'19		16174 Jan 19 11:01	0° Z	
	16171 Jul 05 11:17	0° O		morning max el	16174 Jan 31 18:11	11° Z 17'24	45°55'33
	16171 Jul 29 11:43	0° M		asc. node	16174 Feb 13 03:08	23° Z 44'54	
evening rise	16171 Aug 06 15:07	10° M 10'47			16174 Feb 19 01:26	0° \approx	
greatest brilliancy	16171 Aug 17 01:18	23° M 12'36	-3.9m		16174 Mar 18 01:24	0° H	
	16171 Aug 22 11:44	0° L			16174 Apr 12 18:25	0° Y	
asc. node	16171 Aug 29 05:29	8° L 25'09			16174 May 07 20:04	0° B	
	16171 Sep 15 12:40	0° M			16174 Jun 01 12:21	0° II	
	16171 Oct 09 16:15	0° J		desc. node	16174 Jun 05 02:09	4° II 22'39	
	16171 Nov 03 01:18	0° Z			16174 Jun 25 21:45	0° E	
	16171 Nov 27 20:48	0° \approx			16174 Jul 20 01:54	0° O	
desc. node	16171 Dec 18 22:50	24° \approx 48'13		morning set	16174 Aug 01 10:17	15° O 24'14	
	16171 Dec 23 11:08	0° H			16174 Aug 13 02:34	0° M	
	16172 Jan 19 13:06	0° Y			16174 Sep 06 01:30	0° L	
evening max el	16172 Feb 05 13:38	17° Y 19'09	46°03'26	max. Earth dist.	16174 Sep 09 14:07	4° L 25'03	1.71552 AU
	16172 Feb 19 13:06	0° B					
greatest brilliancy	16172 Mar 15 12:02	15° B 51'21	-4.8m	superior conj	16174 Sep 10 02:30	5° L 03'51	-0°37'24
retrograde	16172 Mar 25 16:44	17° B 44'57		minimum elong	16174 Sep 10 11:15	5° L 31'15	0°37'00
evening set	16172 Apr 09 13:38	13° B 24'33		asc. node	16174 Sep 25 19:19	24° L 44'18	
asc. node	16172 Apr 09 21:04	13° B 14'18			16174 Sep 30 00:05	0° M	
inferior conj	16172 Apr 15 22:06	9° B 35'19	1°30'01	evening rise	16174 Oct 19 15:13	24° M 34'20	
minimum elong	16172 Apr 15 18:44	9° B 40'36	1°28'35		16174 Oct 23 23:24	0° J	
min. Earth dist.	16172 Apr 15 21:09	9° B 36'48	0.28356 AU		16174 Nov 17 00:47	0° Z	
morning rise	16172 Apr 21 23:49	5° B 55'47			16174 Dec 11 06:32	0° \approx	
direct	16172 May 07 03:39	1° B 25'39			16175 Jan 04 19:43	0° H	
greatest brilliancy	16172 May 17 13:52	3° B 26'52	-4.8m	desc. node	16175 Jan 15 11:24	12° H 51'29	
	16172 Jun 22 18:49	0° II			16175 Jan 29 19:45	0° Y	
morning max el	16172 Jun 25 21:05	3° II 01'28	46°22'15		16175 Feb 24 10:53	0° B	
	16172 Jul 21 08:07	0° E			16175 Mar 23 02:32	0° II	
desc. node	16172 Jul 30 22:27	10° E 50'18		evening max el	16175 Apr 17 13:14	26° II 31'15	46°04'20
	16172 Aug 16 10:12	0° O			16175 Apr 21 03:55	0° E	
	16172 Sep 10 12:09	0° M		asc. node	16175 May 08 07:29	14° E 51'54	
	16172 Oct 05 02:38	0° L		greatest brilliancy	16175 May 27 08:32	25° E 54'16	-4.8m
	16172 Oct 29 11:31	0° M		retrograde	16175 Jun 05 22:45	27° E 37'34	
asc. node	16172 Nov 20 19:46	27° M 38'27		evening set	16175 Jun 23 19:06	21° E 33'37	
	16172 Nov 22 17:27	0° J		inferior conj	16175 Jun 26 21:48	19° E 37'57	8°54'09
	16172 Dec 16 21:43	0° Z		minimum elong	16175 Jun 26 17:35	19° E 44'34	8°53'12
morning set	16172 Dec 27 14:32	13° Z 17'26		min. Earth dist.	16175 Jun 27 04:38	19° E 27'14	0.28011 AU
	16173 Jan 10 01:27	0° \approx		morning rise	16175 Jun 29 15:58	17° E 54'53	
				direct	16175 Jul 17 22:43	11° E 30'32	
superior conj	16173 Feb 02 17:16	29° \approx 20'14	1°15'56	greatest brilliancy	16175 Jul 28 01:59	13° E 25'50	-4.9m
minimum elong	16173 Feb 03 01:54	29° \approx 46'59	1°16'09		16175 Aug 22 07:55	0° O	
	16173 Feb 03 06:07	0° H		desc. node	16175 Aug 28 08:29	5° O 25'25	
max. Earth dist.	16173 Feb 05 02:39	2° H 17'50	1.72868 AU	morning max el	16175 Sep 06 08:32	14° O 09'06	46°54'57
	16173 Feb 27 12:50	0° Y			16175 Sep 21 11:27	0° M	
evening rise	16173 Mar 12 09:58	15° Y 51'50			16175 Oct 18 02:18	0° L	
desc. node	16173 Mar 12 12:38	16° Y 00'01			16175 Nov 12 13:36	0° M	
	16173 Mar 23 21:54	0° B			16175 Dec 07 12:19	0° J	
	16173 Apr 17 08:41	0° II		asc. node	16175 Dec 19 07:41	14° J 20'24	
	16173 May 11 20:47	0° E			16176 Jan 01 03:45	0° Z	
	16173 Jun 05 10:59	0° O			16176 Jan 25 14:39	0° \approx	
	16173 Jun 30 06:07	0° M			16176 Feb 18 23:09	0° H	
asc. node	16173 Jul 03 04:39	3° M 31'37		morning set	16176 Mar 06 20:21	20° H 49'10	
	16173 Jul 25 11:49	0° L			16176 Mar 14 06:57	0° Y	
	16173 Aug 20 16:01	0° M			16176 Apr 07 14:40	0° B	
evening max el	16173 Sep 12 08:22	24° M 08'04	46°40'08	desc. node	16176 Apr 09 02:22	1° B 50'11	
	16173 Sep 18 07:54	0° J		max. Earth dist.	16176 Apr 12 17:25	6° B 18'46	1.73026 AU

superior conj	16176 Apr 13 13:09	7°8'19"40	-0°10'51"			16178 Sep 12 02:23	30°8'00"	
minimum elong	16176 Apr 13 10:33	7°8'11"39	0°11'06"	morning rise		16178 Sep 13 16:53	29°0'06"34	
behind sun begin	16176 Apr 12 17:12	6°8'18"05		desc. node		16178 Sep 24 18:15	25°0'06"49	
behind sun end	16176 Apr 14 03:55	8°8'05"12		direct		16178 Sep 28 11:01	24°0'05"04	
	16176 May 01 21:50	0°0'00"		greatest brilliancy		16178 Oct 08 15:24	26°0'04"50	-4.9m
evening rise	16176 May 21 20:28	24°0'00"06				16178 Oct 15 14:26	0°0'00"	
	16176 May 26 03:49	0°0'00"		morning max el		16178 Nov 17 14:37	26°0'05"43	46°38'39"
	16176 Jun 19 08:44	0°0'00"				16178 Nov 20 17:01	0°0'00"	
	16176 Jul 13 13:44	0°0'00"				16178 Dec 18 17:47	0°0'00"	
asc. node	16176 Jul 30 17:42	21°0'00"12'56				16179 Jan 13 22:17	0°0'00"	
	16176 Aug 06 20:43	0°0'00"		asc. node		16179 Jan 15 18:49	2°0'00"10'09	
	16176 Aug 31 08:18	0°0'00"				16179 Feb 08 06:38	0°0'00"	
	16176 Sep 25 04:59	0°0'00"				16179 Mar 05 03:56	0°0'00"	
	16176 Oct 20 20:37	0°0'00"				16179 Mar 29 19:02	0°0'00"	
	16176 Nov 17 09:00	0°0'00"				16179 Apr 23 06:18	0°0'00"	
desc. node	16176 Nov 19 13:09	2°0'00"12'40		desc. node		16179 May 07 15:30	17°0'00"42'36	
evening max el	16176 Nov 22 22:50	5°0'00"36'41	46°25'09"	morning set		16179 May 17 04:51	29°0'00"30'22	
	16176 Dec 22 04:14	0°0'00"				16179 May 17 14:27	0°0'00"	
greatest brilliancy	16177 Jan 01 13:52	5°0'00"09'18	-4.8m			16179 Jun 10 19:31	0°0'00"	
retrograde	16177 Jan 11 17:29	7°0'00"03'04		max. Earth dist.		16179 Jun 22 16:14	14°0'00"45'09	1.72178 AU
evening set	16177 Jan 29 11:39	1°0'00"06'11						
	16177 Jan 31 07:11	30°0'00"		superior conj		16179 Jun 25 12:10	18°0'00"16'39	-1°25'56"
inferior conj	16177 Feb 02 03:53	28°0'00"33'33	-7°48'18"	minimum elong		16179 Jun 25 07:29	18°0'00"02'04	1°26'36"
minimum elong	16177 Feb 02 13:05	28°0'00"36'12	7°46'30"			16179 Jul 04 21:50	0°0'00"	
min. Earth dist.	16177 Feb 02 05:11	28°0'00"48'30	0.28607 AU			16179 Jul 28 22:22	0°0'00"	
morning rise	16177 Feb 06 14:32	26°0'00"07'43		evening rise		16179 Aug 04 03:01	7°0'00"04'43'34	
direct	16177 Feb 23 09:13	20°0'00"43'44				16179 Aug 21 22:29	0°0'00"	
greatest brilliancy	16177 Mar 05 22:05	22°0'00"44'50	-4.8m	asc. node		16179 Aug 28 07:22	7°0'00"05'18	
asc. node	16177 Mar 12 13:00	25°0'00"46'09				16179 Sep 14 23:36	0°0'00"	
	16177 Mar 19 10:09	0°0'00"				16179 Oct 09 03:27	0°0'00"	
morning max el	16177 Apr 13 12:19	21°0'00"02'31	45°46'59"			16179 Nov 02 12:56	0°0'00"	
	16177 Apr 22 03:34	0°0'00"				16179 Nov 27 09:13	0°0'00"	
	16177 May 19 18:23	0°0'00"		desc. node		16179 Dec 18 00:39	24°0'00"14'20	
	16177 Jun 14 15:48	0°0'00"				16179 Dec 23 01:04	0°0'00"	
desc. node	16177 Jul 02 13:41	21°0'00"02'22'46				16180 Jan 19 06:34	0°0'00"	
	16177 Jul 09 16:59	0°0'00"		evening max el		16180 Feb 03 05:23	15°0'00"08'01	46°03'54"
	16177 Aug 03 06:11	0°0'00"				16180 Feb 19 20:36	0°0'00"	
	16177 Aug 27 12:16	0°0'00"		greatest brilliancy		16180 Mar 13 04:00	13°0'00"03'59	-4.8m
	16177 Sep 20 14:35	0°0'00"		retrograde		16180 Mar 23 07:49	15°0'00"03'24'40	
morning set	16177 Oct 14 06:54	29°0'00"03'44'01		evening set		16180 Apr 07 05:23	11°0'00"08'12'23	
	16177 Oct 14 15:13	0°0'00"		asc. node		16180 Apr 08 22:57	10°0'00"08'13'21	
asc. node	16177 Oct 23 08:43	10°0'00"08'54'37		inferior conj		16180 Apr 13 13:43	7°0'00"02'33'07	1°08'55"
	16177 Nov 07 15:17	0°0'00"		minimum elong		16180 Apr 13 11:08	7°0'00"02'27'10	1°07'43"
				min. Earth dist.		16180 Apr 13 13:12	7°0'00"02'23'55	0.28361 AU
superior conj	16177 Nov 22 06:20	18°0'00"02'16'40	1°05'04"	morning rise		16180 Apr 19 16:51	3°0'00"04'12'20	
minimum elong	16177 Nov 21 19:46	17°0'00"02'43'39	1°05'24"			16180 Apr 28 15:06	30°0'00"08'00'	
max. Earth dist.	16177 Nov 23 21:53	20°0'00"02'20'10	1.71998 AU	direct		16180 May 04 19:28	29°0'00"08'13'43	
	16177 Dec 01 15:41	0°0'00"				16180 May 11 03:51	0°0'00"	
	16177 Dec 25 17:51	0°0'00"		greatest brilliancy		16180 May 15 05:50	1°0'00"08'14'44	-4.8m
evening rise	16177 Dec 29 21:04	5°0'00"07'55				16180 Jun 22 17:08	0°0'00"	
	16178 Jan 18 23:37	0°0'00"		morning max el		16180 Jun 23 11:08	0°0'00"02'44'21	46°20'37"
desc. node	16178 Feb 12 00:47	29°0'00"02'30'29				16180 Jul 20 23:45	0°0'00"	
	16178 Feb 12 10:27	0°0'00"		desc. node		16180 Jul 30 00:29	10°0'00"02'14'26	
	16178 Mar 09 03:01	0°0'00"				16180 Aug 15 23:34	0°0'00"	
	16178 Apr 03 01:47	0°0'00"				16180 Sep 10 00:26	0°0'00"	
	16178 Apr 28 08:50	0°0'00"				16180 Oct 04 14:17	0°0'00"	
	16178 May 24 07:18	0°0'00"				16180 Oct 28 22:45	0°0'00"	
asc. node	16178 Jun 04 18:24	12°0'00"09'49'49		asc. node		16180 Nov 19 21:34	27°0'00"08'10'06	
	16178 Jun 20 17:59	0°0'00"				16180 Nov 22 04:22	0°0'00"	
evening max el	16178 Jun 29 04:27	8°0'00"03'34'03	46°26'30"			16180 Dec 16 08:25	0°0'00"	
	16178 Jul 23 16:49	0°0'00"		morning set		16180 Dec 25 05:57	11°0'00"03'03'18	
greatest brilliancy	16178 Aug 08 05:07	8°0'00"03'34'11	-4.9m			16181 Jan 09 12:01	0°0'00"	
retrograde	16178 Aug 18 01:17	10°0'00"03'22'48						
evening set	16178 Sep 02 08:53	5°0'00"03'46'40		superior conj		16181 Jan 31 09:33	27°0'00"09'34	1°17'33"
inferior conj	16178 Sep 07 15:51	2°0'00"03'39'03	4°18'39"	minimum elong		16181 Jan 31 17:46	27°0'00"03'35'01	1°17'49"
minimum elong	16178 Sep 08 00:57	2°0'00"03'25'09	4°15'59"			16181 Feb 02 16:37	0°0'00"	
min. Earth dist.	16178 Sep 08 04:04	2°0'00"03'20'25	0.27010 AU	max. Earth dist.		16181 Feb 02 19:36	0°0'00"09'14	1.72841 AU

	16181 Feb 26 23:22	0°Υ			16183 Sep 21 05:13	0°Π		
evening rise	16181 Mar 10 01:44	13°Υ40'04			16183 Oct 17 16:44	0°Δ		
desc. node	16181 Mar 11 14:31	15°Υ33'14			16183 Nov 12 02:31	0°Π		
	16181 Mar 23 08:33	0°Ϸ			16183 Dec 07 00:21	0°ϳ		
	16181 Apr 16 19:34	0°Π		asc. node	16183 Dec 18 09:36	13°ϳ50'29		
	16181 May 11 07:58	0°Φ			16183 Dec 31 15:13	0°Ξ		
	16181 Jun 04 22:39	0°Ω			16184 Jan 25 01:44	0°≈		
	16181 Jun 29 18:36	0°Π			16184 Feb 18 10:01	0°Ϡ		
asc. node	16181 Jul 02 06:34	2°Π59'35		morning set	16184 Mar 04 12:57	18°Ϡ39'07		
	16181 Jul 25 01:44	0°Δ			16184 Mar 13 17:42	0°Υ		
	16181 Aug 20 08:55	0°Π			16184 Apr 07 01:22	0°Ϸ		
evening max el	16181 Sep 09 21:40	21°Π44'43	46°39'56	desc. node	16184 Apr 08 04:03	1°Ϸ22'19		
	16181 Sep 18 09:45	0°ϳ		max. Earth dist.	16184 Apr 10 13:46	4°Ϸ20'21	1.73041 AU	
greatest brilliancy	16181 Oct 19 07:46	22°ϳ02'12	-4.9m					
desc. node	16181 Oct 22 04:21	23°ϳ00'27		superior conj	16184 Apr 11 04:21	5°Ϸ05'23	-0°07'22	
retrograde	16181 Oct 30 03:46	24°ϳ12'47		minimum elong	16184 Apr 11 02:34	4°Ϸ59'51	0°07'37	
evening set	16181 Nov 14 23:12	19°ϳ23'34		behind sun begin	16184 Apr 10 05:25	3°Ϸ54'36		
min. Earth dist.	16181 Nov 19 09:35	16°ϳ45'41	0.27582 AU	behind sun end	16184 Apr 11 23:42	6°Ϸ05'07		
inferior conj	16181 Nov 20 04:47	16°ϳ16'13	-6°40'10		16184 May 01 08:35	0°Π		
minimum elong	16181 Nov 19 17:46	16°ϳ33'08	6°37'06	evening rise	16184 May 19 11:13	22°Π23'43		
morning rise	16181 Nov 24 12:43	13°ϳ40'21			16184 May 25 14:41	0°Φ		
direct	16181 Dec 11 03:03	8°ϳ27'51			16184 Jun 18 19:47	0°Ω		
greatest brilliancy	16181 Dec 20 14:01	10°ϳ05'43	-4.8m		16184 Jul 13 01:03	0°Π		
	16182 Jan 19 16:04	0°Ξ		asc. node	16184 Jul 29 19:38	20°Π43'14		
morning max el	16182 Jan 29 06:41	8°Ξ56'11	45°56'44		16184 Aug 06 08:24	0°Δ		
asc. node	16182 Feb 12 05:12	23°Ξ01'49			16184 Aug 30 20:33	0°Π		
	16182 Feb 18 18:41	0°≈			16184 Sep 24 18:14	0°ϳ		
	16182 Mar 17 15:17	0°Ϡ			16184 Oct 20 11:52	0°Ξ		
	16182 Apr 12 06:48	0°Υ			16184 Nov 17 05:30	0°≈		
	16182 May 07 07:41	0°Ϸ		desc. node	16184 Nov 18 14:59	1°≈24'15		
	16182 May 31 23:32	0°Π		evening max el	16184 Nov 20 14:05	3°≈21'22	46°25'54	
desc. node	16182 Jun 04 03:57	3°Π54'04			16184 Dec 23 16:39	0°Ϡ		
	16182 Jun 25 08:41	0°Φ		greatest brilliancy	16184 Dec 30 03:47	2°Ϡ53'53	-4.8m	
	16182 Jul 19 12:41	0°Ω		retrograde	16185 Jan 09 09:22	4°Ϡ49'13		
morning set	16182 Jul 29 22:49	12°Ω59'55			16185 Jan 25 04:12	30°Ϡ≈		
	16182 Aug 12 13:17	0°Π		evening set	16185 Jan 27 05:44	28°≈47'52		
	16182 Sep 05 12:13	0°Δ		inferior conj	16185 Jan 30 19:08	26°≈36'33	-7°58'27	
max. Earth dist.	16182 Sep 06 22:00	1°Δ45'49	1.71559 AU	minimum elong	16185 Jan 31 03:54	26°≈22'55	7°56'47	
				min. Earth dist.	16185 Jan 30 19:21	26°≈36'13	0.28604 AU	
superior conj	16182 Sep 07 15:00	2°Δ39'06	-0°40'49	morning rise	16185 Feb 04 02:08	23°≈59'25		
minimum elong	16182 Sep 08 00:23	3°Δ08'30	0°40'26	direct	16185 Feb 21 00:51	18°≈30'04		
asc. node	16182 Sep 24 21:06	24°Δ16'14		greatest brilliancy	16185 Mar 03 12:10	20°≈30'17	-4.8m	
	16182 Sep 29 10:51	0°Π		asc. node	16185 Mar 11 14:52	24°≈20'58		
evening rise	16182 Oct 17 04:59	22°Π13'29			16185 Mar 20 04:45	0°Ϡ		
	16182 Oct 23 10:14	0°ϳ		morning max el	16185 Apr 11 04:21	19°Ϡ08'31	45°46'27	
	16182 Nov 16 11:44	0°Ξ			16185 Apr 21 22:44	0°Υ		
	16182 Dec 10 17:42	0°≈			16185 May 19 09:07	0°Ϸ		
	16183 Jan 04 07:17	0°Ϡ			16185 Jun 14 04:44	0°Π		
desc. node	16183 Jan 14 13:19	12°Ϡ21'45		desc. node	16185 Jul 01 15:38	20°Π51'44		
	16183 Jan 29 08:02	0°Υ			16185 Jul 09 05:01	0°Φ		
	16183 Feb 24 00:30	0°Ϸ			16185 Aug 02 17:45	0°Ω		
	16183 Mar 22 18:56	0°Π			16185 Aug 26 23:32	0°Π		
evening max el	16183 Apr 15 03:07	24°Π13'12	46°03'58		16185 Sep 20 01:40	0°Δ		
	16183 Apr 21 04:36	0°Φ		morning set	16185 Oct 11 20:22	27°Δ12'01		
asc. node	16183 May 07 09:20	13°Φ41'22			16185 Oct 14 02:08	0°Π		
greatest brilliancy	16183 May 24 21:47	23°Φ35'25	-4.8m	asc. node	16185 Oct 22 10:29	10°Π26'08		
retrograde	16183 Jun 03 13:16	25°Φ19'59			16185 Nov 07 02:05	0°ϳ		
evening set	16183 Jun 21 06:21	19°Φ20'03						
inferior conj	16183 Jun 24 12:21	17°Φ19'33	8°49'11	superior conj	16185 Nov 19 21:05	15°ϳ59'07	1°02'38	
minimum elong	16183 Jun 24 07:18	17°Φ27'27	8°48'07	minimum elong	16185 Nov 19 10:25	15°ϳ25'48	1°02'55	
min. Earth dist.	16183 Jun 24 18:15	17°Φ10'18	0.28036 AU	max. Earth dist.	16185 Nov 21 13:59	18°ϳ06'53	1.71973 AU	
morning rise	16183 Jun 27 08:10	15°Φ34'05			16185 Dec 01 02:26	0°Ξ		
direct	16183 Jul 15 13:17	9°Φ11'36			16185 Dec 25 04:40	0°≈		
greatest brilliancy	16183 Jul 25 16:41	11°Φ07'17	-4.9m	evening rise	16185 Dec 27 12:42	2°≈53'56		
	16183 Aug 22 13:36	0°Ω			16186 Jan 18 10:33	0°Ϡ		
desc. node	16183 Aug 27 10:24	4°Ω29'02		desc. node	16186 Feb 11 02:38	29°Ϡ02'04		
morning max el	16183 Sep 03 23:28	11°Ω50'31	46°54'39		16186 Feb 11 21:38	0°Υ		

	16186 Mar 08 14:35	0°♄			16188 Aug 15 13:07	0°♌		
	16186 Apr 02 13:59	0°♊			16188 Sep 09 12:53	0°♍		
	16186 Apr 27 22:08	0°♋			16188 Oct 04 02:05	0°♎		
	16186 May 23 22:42	0°♍			16188 Oct 28 10:08	0°♏		
asc. node	16186 Jun 03 20:22	12°♌08'51		asc. node	16188 Nov 18 23:27	26°♏41'25		
	16186 Jun 20 14:28	0°♎			16188 Nov 21 15:29	0°♐		
evening max el	16186 Jun 26 18:41	6°♎13'43	46°25'37		16188 Dec 15 19:19	0°♑		
	16186 Jul 24 17:50	0°♏		morning set	16188 Dec 22 21:25	8°♑48'36		
greatest brilliancy	16186 Aug 05 18:56	6°♏10'37	-4.9m		16189 Jan 08 22:46	0°♒		
retrograde	16186 Aug 15 14:11	7°♏58'00						
evening set	16186 Aug 31 00:46	3°♏18'03		superior conj	16189 Jan 29 02:05	24°♒59'05	1°19'02	
inferior conj	16186 Sep 05 04:39	0°♏14'12	4°39'53	minimum elong	16189 Jan 29 09:49	25°♒23'04	1°19'20	
minimum elong	16186 Sep 05 14:16	29°♎59'30	4°37'06	max. Earth dist.	16189 Jan 31 11:10	27°♒55'50	1.72814 AU	
min. Earth dist.	16186 Sep 05 17:36	29°♎54'24	0.27030 AU		16189 Feb 02 03:17	0°♈		
	16186 Sep 05 13:56	30°♎			16189 Feb 26 10:04	0°♉		
morning rise	16186 Sep 11 03:39	26°♎44'06		evening rise	16189 Mar 07 17:43	11°♉28'28		
desc. node	16186 Sep 23 20:08	22°♎30'41		desc. node	16189 Mar 10 16:15	15°♉05'24		
direct	16186 Sep 26 00:27	22°♎24'56			16189 Mar 22 19:24	0°♊		
greatest brilliancy	16186 Oct 06 04:19	24°♎21'17	-4.9m		16189 Apr 16 06:40	0°♋		
	16186 Oct 17 04:29	0°♏			16189 May 10 19:25	0°♌		
morning max el	16186 Nov 15 04:03	24°♏32'11	46°39'59		16189 Jun 04 10:38	0°♍		
	16186 Nov 20 14:31	0°♎			16189 Jun 29 07:25	0°♎		
	16186 Dec 18 09:30	0°♐		asc. node	16189 Jul 01 08:28	2°♎26'40		
	16187 Jan 13 11:42	0°♑			16189 Jul 24 16:02	0°♏		
asc. node	16187 Jan 14 20:49	1°♑37'02			16189 Aug 20 02:21	0°♐		
	16187 Feb 07 18:52	0°♒		evening max el	16189 Sep 07 10:20	19°♐19'29	46°39'59	
	16187 Mar 04 15:32	0°♈			16189 Sep 18 13:17	0°♑		
	16187 Mar 29 06:15	0°♉		greatest brilliancy	16189 Oct 16 22:12	19°♑40'59	-4.9m	
	16187 Apr 22 17:17	0°♊		desc. node	16189 Oct 21 06:16	21°♑03'08		
desc. node	16187 May 06 17:20	17°♊14'33		retrograde	16189 Oct 27 17:27	21°♑51'26		
morning set	16187 May 14 18:50	27°♊11'40		evening set	16189 Nov 12 09:25	17°♑07'14		
	16187 May 17 01:20	0°♋		min. Earth dist.	16189 Nov 16 23:45	14°♑24'12	0.27534 AU	
	16187 Jun 10 06:23	0°♌		inferior conj	16189 Nov 17 18:22	13°♑55'41	-6°24'17	
max. Earth dist.	16187 Jun 20 02:56	12°♌15'20	1.72211 AU	minimum elong	16189 Nov 17 07:20	14°♑12'36	6°21'06	
				morning rise	16189 Nov 22 05:35	11°♑15'14		
superior conj	16187 Jun 23 01:20	15°♌54'24	-1°25'04	direct	16189 Dec 08 15:38	6°♑07'37		
minimum elong	16187 Jun 22 19:47	15°♌37'08	1°25'43	greatest brilliancy	16189 Dec 18 04:01	7°♑46'31	-4.8m	
	16187 Jul 04 08:43	0°♍			16190 Jan 19 19:23	0°♑		
	16187 Jul 28 09:20	0°♎		morning max el	16190 Jan 26 20:00	6°♑36'38	45°58'03	
evening rise	16187 Aug 01 14:52	5°♎17'15		asc. node	16190 Feb 11 06:59	22°♑18'22		
	16187 Aug 21 09:34	0°♏			16190 Feb 18 11:37	0°♒		
asc. node	16187 Aug 27 09:08	7°♏28'05			16190 Mar 17 05:04	0°♈		
	16187 Sep 14 10:51	0°♎			16190 Apr 11 19:09	0°♉		
	16187 Oct 08 14:59	0°♐			16190 May 06 19:19	0°♊		
	16187 Nov 02 00:55	0°♑			16190 May 31 10:47	0°♋		
	16187 Nov 26 21:59	0°♒		desc. node	16190 Jun 03 05:54	3°♋25'41		
desc. node	16187 Dec 17 02:39	23°♒40'04			16190 Jun 24 19:42	0°♌		
	16187 Dec 22 15:25	0°♈			16190 Jul 18 23:35	0°♍		
	16188 Jan 19 00:45	0°♉		morning set	16190 Jul 27 10:55	10°♍33'56		
evening max el	16188 Jan 31 20:00	12°♉53'14	46°04'13		16190 Aug 12 00:06	0°♎		
	16188 Feb 20 07:29	0°♊		max. Earth dist.	16190 Sep 04 07:19	29°♎10'51	1.71563 AU	
greatest brilliancy	16188 Mar 10 20:03	11°♊27'26	-4.8m		16190 Sep 04 23:01	0°♏		
retrograde	16188 Mar 20 22:28	13°♊19'03						
evening set	16188 Apr 04 21:08	8°♊58'23		superior conj	16190 Sep 05 03:05	0°♏12'46	-0°44'13	
asc. node	16188 Apr 08 00:51	7°♊08'22		minimum elong	16190 Sep 05 13:03	0°♏43'58	0°43'50	
inferior conj	16188 Apr 11 05:12	5°♊09'31	0°47'31	asc. node	16190 Sep 23 22:50	23°♏47'52		
minimum elong	16188 Apr 11 03:25	5°♊12'19	0°46'36		16190 Sep 28 21:39	0°♐		
min. Earth dist.	16188 Apr 11 05:27	5°♊09'08	0.28371 AU	evening rise	16190 Oct 14 18:31	19°♐51'57		
morning rise	16188 Apr 17 09:35	1°♊25'41			16190 Oct 22 21:04	0°♑		
	16188 Apr 20 04:08	30°♊			16190 Nov 15 22:41	0°♑		
direct	16188 May 02 10:42	27°♊00'06			16190 Dec 10 04:52	0°♒		
greatest brilliancy	16188 May 12 22:21	29°♊01'45	-4.8m		16191 Jan 03 18:53	0°♈		
	16188 May 15 07:51	0°♊		desc. node	16191 Jan 13 15:10	11°♈51'48		
morning max el	16188 Jun 21 00:40	28°♊24'40	46°19'08		16191 Jan 28 20:22	0°♉		
	16188 Jun 22 15:05	0°♋			16191 Feb 23 14:12	0°♊		
	16188 Jul 20 15:31	0°♌			16191 Mar 22 11:32	0°♋		
desc. node	16188 Jul 29 02:24	9°♌37'28		evening max el	16191 Apr 12 17:45	21°♋57'29	46°03'34	

	16191 Apr 21 06:30	0°☿		morning set	16193 Oct 09 09:28	24°☿49'43	
asc. node	16191 May 06 11:17	12°☿29'12			16193 Oct 13 12:47	0°♊	
greatest brilliancy	16191 May 22 10:28	21°☿16'14	-4.8m	asc. node	16193 Oct 21 12:25	9°♊58'59	
retrograde	16191 Jun 01 04:00	23°☿02'20			16193 Nov 06 12:37	0°♋	
evening set	16191 Jun 18 17:16	17°☿06'50					
inferior conj	16191 Jun 22 02:47	15°☿01'02	8°43'19	superior conj	16193 Nov 17 11:21	13°♋40'54	1°00'02
minimum elong	16191 Jun 21 21:00	15°☿10'07	8°42'06	minimum elong	16193 Nov 17 00:41	13°♋07'33	1°00'19
min. Earth dist.	16191 Jun 22 07:32	14°☿53'37	0.28063 AU	max. Earth dist.	16193 Nov 19 04:50	15°♋50'27	1.71943 AU
morning rise	16191 Jun 25 00:37	13°☿12'37			16193 Nov 30 12:56	0°♌	
direct	16191 Jul 13 04:18	6°☿52'43			16193 Dec 24 15:10	0°♍	
greatest brilliancy	16191 Jul 23 06:51	8°☿48'05	-4.9m	evening rise	16193 Dec 25 03:57	0°♍39'42	
	16191 Aug 22 17:27	0°♎			16194 Jan 17 21:10	0°♎	
desc. node	16191 Aug 26 12:16	3°♎33'30		desc. node	16194 Feb 10 04:23	28°♎34'23	
morning max el	16191 Sep 01 14:59	9°♎33'23	46°54'10		16194 Feb 11 08:27	0°♏	
	16191 Sep 20 22:39	0°♐			16194 Mar 08 01:49	0°♐	
	16191 Oct 17 07:01	0°♑			16194 Apr 02 01:53	0°♑	
	16191 Nov 11 15:17	0°♒			16194 Apr 27 11:09	0°☿	
	16191 Dec 06 12:12	0°♋			16194 May 23 13:52	0°♌	
asc. node	16191 Dec 17 11:31	13°♋21'06		asc. node	16194 Jun 02 22:20	11°♌28'44	
	16191 Dec 31 02:29	0°♌			16194 Jun 20 11:05	0°♍	
	16192 Jan 24 12:38	0°♍		evening max el	16194 Jun 24 08:13	3°♍53'05	46°24'44
	16192 Feb 17 20:42	0°♎			16194 Jul 26 03:51	0°♎	
morning set	16192 Mar 02 05:44	16°♎30'09		greatest brilliancy	16194 Aug 03 09:17	3°♎49'25	-4.9m
	16192 Mar 13 04:16	0°♏		retrograde	16194 Aug 13 02:44	5°♎35'04	
	16192 Apr 06 11:54	0°♐		evening set	16194 Aug 28 16:53	0°♎51'06	
desc. node	16192 Apr 07 05:57	0°♐55'41			16194 Aug 30 04:29	30°♏♐	
				inferior conj	16194 Sep 02 17:39	27°♏51'17	5°00'23
superior conj	16192 Apr 08 19:47	2°♐52'26	-0°03'52	minimum elong	16194 Sep 03 03:41	27°♏35'52	4°57'32
minimum elong	16192 Apr 08 18:49	2°♐49'25	0°04'09	min. Earth dist.	16194 Sep 03 07:33	27°♏29'57	0.27055 AU
behind sun begin	16192 Apr 07 19:43	1°♐38'08		morning rise	16194 Sep 08 14:20	24°♏23'42	
behind sun end	16192 Apr 09 17:55	4°♐00'42		desc. node	16194 Sep 22 22:06	20°♏01'58	
max. Earth dist.	16192 Apr 08 10:25	2°♐23'28	1.73051 AU	direct	16194 Sep 23 13:23	20°♏01'29	
	16192 Apr 30 19:08	0°♑		greatest brilliancy	16194 Oct 03 17:52	21°♏57'53	-4.9m
evening rise	16192 May 17 02:12	20°♑08'42			16194 Oct 18 06:33	0°♒	
	16192 May 25 01:20	0°☿		morning max el	16194 Nov 12 16:56	22°♒09'15	46°41'10
	16192 Jun 18 06:38	0°♌			16194 Nov 20 10:52	0°♒	
	16192 Jul 12 12:12	0°♍			16194 Dec 18 00:39	0°♋	
asc. node	16192 Jul 28 21:22	20°♍13'29			16195 Jan 13 00:41	0°♌	
	16192 Aug 05 19:59	0°♎		asc. node	16195 Jan 13 22:37	1°♌04'25	
	16192 Aug 30 08:44	0°♏			16195 Feb 07 06:43	0°♍	
	16192 Sep 24 07:28	0°♋			16195 Mar 04 02:42	0°♎	
	16192 Oct 20 03:12	0°♌			16195 Mar 28 17:00	0°♏	
	16192 Nov 17 02:31	0°♍			16195 Apr 22 03:50	0°♐	
desc. node	16192 Nov 17 17:02	0°♍36'05		desc. node	16195 May 05 19:13	16°♐47'57	
evening max el	16192 Nov 18 05:43	1°♍07'30	46°26'49	morning set	16195 May 12 08:58	24°♐54'45	
	16192 Dec 26 00:47	0°♎			16195 May 16 11:48	0°♑	
greatest brilliancy	16192 Dec 27 18:03	0°♎39'41	-4.8m		16195 Jun 09 16:49	0°☿	
retrograde	16193 Jan 07 01:10	2°♎35'57		max. Earth dist.	16195 Jun 17 13:38	9°☿46'50	1.72245 AU
	16193 Jan 18 10:58	30°♏♎					
evening set	16193 Jan 24 23:46	26°♎30'35		superior conj	16195 Jun 20 14:47	13°☿34'23	-1°24'04
inferior conj	16193 Jan 28 10:22	24°♎23'19	-8°07'55	minimum elong	16195 Jun 20 08:24	13°☿14'33	1°24'41
minimum elong	16193 Jan 28 18:39	24°♎10'26	8°06'23		16195 Jul 03 19:11	0°♌	
min. Earth dist.	16193 Jan 28 09:22	24°♎24'54	0.28595 AU		16195 Jul 27 19:51	0°♍	
morning rise	16193 Feb 01 13:39	21°♎51'47		evening rise	16195 Jul 30 03:01	2°♍52'20	
direct	16193 Feb 18 16:37	16°♎17'26			16195 Aug 20 20:11	0°♎	
greatest brilliancy	16193 Mar 01 01:39	18°♎15'54	-4.8m	asc. node	16195 Aug 26 10:56	7°♎00'26	
asc. node	16193 Mar 10 16:49	22°♎59'32			16195 Sep 13 21:40	0°♏	
	16193 Mar 20 18:05	0°♎			16195 Oct 08 02:06	0°♋	
morning max el	16193 Apr 08 20:00	16°♎56'35	45°45'58		16195 Nov 01 12:32	0°♌	
	16193 Apr 21 16:59	0°♏			16195 Nov 26 10:27	0°♍	
	16193 May 18 23:17	0°♐		desc. node	16195 Dec 16 04:27	23°♍06'00	
	16193 Jun 13 17:14	0°♑			16195 Dec 22 05:33	0°♎	
desc. node	16193 Jun 30 17:31	20°♑21'38			16196 Jan 18 19:00	0°♏	
	16193 Jul 08 16:41	0°☿		evening max el	16196 Jan 29 10:08	10°♏38'23	46°04'45
	16193 Aug 02 04:57	0°♌			16196 Feb 20 21:25	0°♐	
	16193 Aug 26 10:29	0°♍		greatest brilliancy	16196 Mar 08 12:05	9°♐16'12	-4.8m
	16193 Sep 19 12:26	0°♎		retrograde	16196 Mar 18 13:24	11°♐07'15	

evening set	16196 Apr 02 13:08	6°8'45"34		minimum elong	16198 Sep 03 01:37	28°19'48"	0°47'10"
asc. node	16196 Apr 07 02:51	4°8'03"23			16198 Sep 04 09:36	0°0'	
inferior conj	16196 Apr 08 20:49	2°8'57"37	0°26'08"	asc. node	16198 Sep 23 00:46	23°0'20"42	
minimum elong	16196 Apr 08 19:50	2°8'59"09	0°25'30"		16198 Sep 28 08:15	0°0'	
min. Earth dist.	16196 Apr 08 21:50	2°8'56"01	0.28381 AU	evening rise	16198 Oct 12 08:07	17°13'31"11	
	16196 Apr 13 16:34	30°8'0'			16198 Oct 22 07:42	0°0'	
morning rise	16196 Apr 15 02:19	29°0'12"06			16198 Nov 15 09:24	0°0'	
direct	16196 Apr 30 01:43	24°0'48"01			16198 Dec 09 15:49	0°0'	
greatest brilliancy	16196 May 10 15:14	26°0'50"52	-4.8m		16199 Jan 03 06:16	0°0'	
	16196 May 17 09:51	0°0'		desc. node	16199 Jan 12 16:58	11°0'22"21	
morning max el	16196 Jun 18 14:56	26°8'08"12	46°17'41"		16199 Jan 28 08:33	0°0'	
	16196 Jun 22 11:40	0°0'			16199 Feb 23 03:50	0°0'	
	16196 Jul 20 06:35	0°0'			16199 Mar 22 04:19	0°0'	
desc. node	16196 Jul 28 04:11	9°0'01"42		evening max el	16199 Apr 10 09:28	19°0'24"53	46°03'11"
	16196 Aug 15 02:06	0°0'			16199 Apr 21 09:47	0°0'	
	16196 Sep 09 00:50	0°0'		asc. node	16199 May 05 13:14	11°0'15"14	
	16196 Oct 03 13:25	0°0'		greatest brilliancy	16199 May 19 23:27	18°0'58"04	-4.8m
	16196 Oct 27 21:04	0°0'		retrograde	16199 May 29 18:50	20°0'45"18	
asc. node	16196 Nov 18 01:17	26°0'13"57		evening set	16199 Jun 16 04:11	14°0'54"52	
	16196 Nov 21 02:09	0°0'		inferior conj	16199 Jun 19 17:23	12°0'43"20	8°36'33"
	16196 Dec 15 05:48	0°0'		minimum elong	16199 Jun 19 10:52	12°0'53"31	8°35'13"
morning set	16196 Dec 20 12:52	6°0'34"58		min. Earth dist.	16199 Jun 19 20:51	12°0'37"53	0.28084 AU
	16197 Jan 08 09:08	0°0'		morning rise	16199 Jun 22 17:30	10°0'51"24	
				direct	16199 Jul 10 19:40	4°0'34"57	
superior conj	16197 Jan 26 18:31	22°0'49"18	1°20'24"	greatest brilliancy	16199 Jul 20 20:42	6°0'29"15	-4.8m
minimum elong	16197 Jan 27 01:43	23°0'11"39	1°20'45"		16199 Aug 22 19:28	0°0'	
max. Earth dist.	16197 Jan 29 01:37	25°0'39"58	1.72790 AU	desc. node	16199 Aug 25 14:19	2°0'40"03	
	16197 Feb 01 13:37	0°0'		morning max el	16199 Aug 30 06:20	7°0'16"24	46°53'27"
	16197 Feb 25 20:27	0°0'			16199 Sep 20 15:34	0°0'	
evening rise	16197 Mar 05 09:33	9°0'17"31			16199 Oct 16 21:03	0°0'	
desc. node	16197 Mar 09 18:06	14°0'39"01			16199 Nov 11 03:54	0°0'	
	16197 Mar 22 05:55	0°0'			16199 Dec 05 23:57	0°0'	
	16197 Apr 15 17:24	0°0'		asc. node	16199 Dec 16 13:17	12°0'51"28	
	16197 May 10 06:31	0°0'			16199 Dec 30 13:40	0°0'	
	16197 Jun 03 22:17	0°0'			16200 Jan 23 23:27	0°0'	
	16197 Jun 28 19:58	0°0'			16200 Feb 17 07:18	0°0'	
asc. node	16197 Jun 30 10:14	1°0'15"42		morning set	16200 Feb 28 22:44	14°0'22"03	
	16197 Jul 24 06:09	0°0'			16200 Mar 13 14:47	0°0'	
	16197 Aug 19 19:48	0°0'			16200 Apr 06 22:25	0°0'	
evening max el	16197 Sep 04 23:47	16°0'15"726	46°40'05"				
	16197 Sep 18 18:08	0°0'		superior conj	16200 Apr 07 11:19	0°0'39"47	-0°00'22"
greatest brilliancy	16197 Oct 14 12:11	17°0'20"27	-4.9m	minimum elong	16200 Apr 07 11:10	0°0'39"19	0°00'40"
desc. node	16197 Oct 20 08:16	19°0'20"30		behind sun begin	16200 Apr 06 11:32	29°0'26"26	
retrograde	16197 Oct 25 07:41	19°0'31"31		behind sun end	16200 Apr 08 10:48	1°0'52"13	
evening set	16197 Nov 09 19:52	14°0'51"52		desc. node	16200 Apr 07 07:46	0°0'28"49	
min. Earth dist.	16197 Nov 14 13:40	12°0'04"22	0.27487 AU	max. Earth dist.	16200 Apr 07 06:15	0°0'24"06	1.73063 AU
inferior conj	16197 Nov 15 07:59	11°0'36"24	-6°07'39"		16200 May 01 05:43	0°0'	
minimum elong	16197 Nov 14 20:59	11°0'53"12	6°04'24"	evening rise	16200 May 15 17:05	17°0'25"16	
morning rise	16197 Nov 19 22:28	8°0'51"40			16200 May 25 12:04	0°0'	
direct	16197 Dec 06 04:37	3°0'48"38			16200 Jun 18 17:34	0°0'	
greatest brilliancy	16197 Dec 15 17:38	5°0'28"16	-4.8m		16200 Jul 12 23:25	0°0'	
	16198 Jan 19 20:40	0°0'		asc. node	16200 Jul 28 23:14	19°0'43"52	
morning max el	16198 Jan 24 10:19	4°0'20"40	45°59'17"		16200 Aug 06 07:38	0°0'	
asc. node	16198 Feb 10 08:56	21°0'36"52			16200 Aug 30 21:04	0°0'	
	16198 Feb 18 03:52	0°0'			16200 Sep 24 20:55	0°0'	
	16198 Mar 16 18:26	0°0'			16200 Oct 20 18:56	0°0'	
	16198 Apr 11 07:13	0°0'		evening max el	16200 Nov 16 21:17	28°0'52"48	46°27'37"
	16198 May 06 06:40	0°0'		desc. node	16200 Nov 17 18:53	29°0'34"04	
	16198 May 30 21:44	0°0'			16200 Nov 18 00:34	0°0'	
desc. node	16198 Jun 02 07:43	2°0'15"744		greatest brilliancy	16200 Dec 26 09:01	28°0'25"45	-4.8m
	16198 Jun 24 06:26	0°0'			16201 Jan 01 07:14	0°0'	
	16198 Jul 18 10:12	0°0'		retrograde	16201 Jan 05 16:39	0°0'22"05	
morning set	16198 Jul 24 23:04	8°0'08"55			16201 Jan 09 23:39	30°0'0'	
	16198 Aug 11 10:42	0°0'		evening set	16201 Jan 23 17:41	24°0'13"15	
max. Earth dist.	16198 Sep 01 18:44	26°0'43"01	1.71570 AU	inferior conj	16201 Jan 27 01:36	22°0'09"48	-8°16'36"
				minimum elong	16201 Jan 27 09:19	21°0'57"46	8°15'12"
superior conj	16198 Sep 02 15:09	27°0'47"01	-0°47'31"	min. Earth dist.	16201 Jan 26 23:37	22°0'12"54	0.28580 AU

morning rise	16201 Jan 31 01:07	19° \approx 43'42		evening rise	16203 Jul 28 15:06	0° \approx 25'51	
direct	16201 Feb 17 08:07	14° \approx 04'39			16203 Aug 21 07:17	0° \approx	
greatest brilliancy	16201 Feb 27 15:03	16° \approx 01'08	-4.8m	asc. node	16203 Aug 26 12:50	6° \approx 31'34	
asc. node	16201 Mar 10 18:48	21° \approx 40'29			16203 Sep 14 08:59	0° \approx	
	16201 Mar 22 04:00	0° \approx			16203 Oct 08 13:43	0° \approx	
morning max el	16201 Apr 07 10:42	14° \approx 42'00	45°45'28		16203 Nov 02 00:39	0° \approx	
	16201 Apr 22 10:54	0° \approx			16203 Nov 26 23:27	0° \approx	
	16201 May 19 13:28	0° \approx		desc. node	16203 Dec 16 06:18	22° \approx 30'23	
	16201 Jun 14 05:52	0° \approx			16203 Dec 22 20:22	0° \approx	
desc. node	16201 Jun 30 19:19	19° \approx 50'38			16204 Jan 19 14:21	0° \approx	
	16201 Jul 09 04:31	0° \approx		evening max el	16204 Jan 28 00:16	8° \approx 22'06	46°05'21
	16201 Aug 02 16:21	0° \approx			16204 Feb 22 17:13	0° \approx	
	16201 Aug 26 21:38	0° \approx		greatest brilliancy	16204 Mar 07 03:36	7° \approx 02'50	-4.8m
	16201 Sep 19 23:24	0° \approx		retrograde	16204 Mar 17 04:39	8° \approx 53'59	
morning set	16201 Oct 07 22:29	22° \approx 26'30		evening set	16204 Apr 01 05:13	4° \approx 30'50	
	16201 Oct 13 23:37	0° \approx		asc. node	16204 Apr 07 04:44	0° \approx 56'02	
asc. node	16201 Oct 21 14:11	9° \approx 30'39		inferior conj	16204 Apr 07 12:19	0° \approx 44'07	0°04'44
	16201 Nov 06 23:23	0° \approx		minimum elong	16204 Apr 07 12:09	0° \approx 44'22	0°04'22
				transit middle	16204 Apr 07 12:09	0° \approx 44'22	0°04'22
superior conj	16201 Nov 16 01:36	11° \approx 21'49	0°57'21	transit begin	16204 Apr 07 08:15	0° \approx 50'30	
minimum elong	16201 Nov 15 15:00	10° \approx 48'43	0°57'37	transit end	16204 Apr 07 16:03	0° \approx 38'15	
max. Earth dist.	16201 Nov 17 17:51	13° \approx 27'36	1.71917 AU	min. Earth dist.	16204 Apr 07 13:57	0° \approx 41'32	0.28391 AU
	16201 Nov 30 23:42	0° \approx			16204 Apr 08 16:26	30° \approx 00'00	
evening rise	16201 Dec 23 19:12	28° \approx 24'28		morning rise	16204 Apr 13 18:49	26° \approx 00'00	
	16201 Dec 25 01:58	0° \approx		direct	16204 Apr 28 16:47	22° \approx 00'00	
	16202 Jan 18 08:04	0° \approx		greatest brilliancy	16204 May 09 07:53	24° \approx 00'00	-4.8m
desc. node	16202 Feb 10 06:17	28° \approx 06'20			16204 May 19 19:29	0° \approx	
	16202 Feb 11 19:34	0° \approx		morning max el	16204 Jun 17 06:00	23° \approx 00'00	46°16'18
	16202 Mar 08 13:20	0° \approx			16204 Jun 23 08:01	0° \approx	
	16202 Apr 02 14:05	0° \approx			16204 Jul 20 21:50	0° \approx	
	16202 Apr 28 00:34	0° \approx		desc. node	16204 Jul 28 06:14	8° \approx 25'43	
	16202 May 24 05:39	0° \approx			16204 Aug 15 15:25	0° \approx	
asc. node	16202 Jun 03 00:06	10° \approx 46'28			16204 Sep 09 13:11	0° \approx	
	16202 Jun 21 08:59	0° \approx			16204 Oct 04 01:13	0° \approx	
evening max el	16202 Jun 22 20:50	1° \approx 28'59	46°23'44		16204 Oct 28 08:30	0° \approx	
	16202 Jul 29 09:04	0° \approx		asc. node	16204 Nov 18 03:04	25° \approx 00'00	
greatest brilliancy	16202 Aug 01 23:55	1° \approx 26'57	-4.9m		16204 Nov 21 13:18	0° \approx	
retrograde	16202 Aug 11 14:57	3° \approx 10'44			16204 Dec 15 16:45	0° \approx	
	16202 Aug 24 06:32	30° \approx 00'00		morning set	16204 Dec 19 03:53	4° \approx 18'30	
evening set	16202 Aug 27 08:59	28° \approx 22'16			16205 Jan 08 19:57	0° \approx	
inferior conj	16202 Sep 01 06:34	25° \approx 26'55	5°20'14				
minimum elong	16202 Sep 01 16:59	25° \approx 10'55	5°17'21	superior conj	16205 Jan 25 10:38	20° \approx 37'04	1°21'39
min. Earth dist.	16202 Sep 01 21:41	25° \approx 03'42	0.27082 AU	minimum elong	16205 Jan 25 17:17	20° \approx 57'41	1°22'04
morning rise	16202 Sep 07 00:42	22° \approx 02'15		max. Earth dist.	16205 Jan 27 17:39	23° \approx 27'33	1.72768 AU
direct	16202 Sep 22 01:53	17° \approx 36'17			16205 Feb 02 00:24	0° \approx	
desc. node	16202 Sep 23 00:04	17° \approx 37'18			16205 Feb 26 07:18	0° \approx	
greatest brilliancy	16202 Oct 02 07:52	19° \approx 33'36	-4.9m	evening rise	16205 Mar 04 01:17	7° \approx 04'46	
	16202 Oct 20 02:19	0° \approx		desc. node	16205 Mar 09 19:58	14° \approx 11'13	
morning max el	16202 Nov 11 05:35	19° \approx 44'24	46°42'24		16205 Mar 22 16:55	0° \approx	
	16202 Nov 21 07:01	0° \approx			16205 Apr 16 04:38	0° \approx	
	16202 Dec 18 15:59	0° \approx			16205 May 10 18:05	0° \approx	
	16203 Jan 13 13:58	0° \approx			16205 Jun 04 10:23	0° \approx	
asc. node	16203 Jan 14 00:31	0° \approx 31'02			16205 Jun 29 08:59	0° \approx	
	16203 Feb 07 18:54	0° \approx		asc. node	16205 Jun 30 12:10	1° \approx 21'01	
	16203 Mar 04 14:14	0° \approx			16205 Jul 24 20:50	0° \approx	
	16203 Mar 29 04:08	0° \approx			16205 Aug 20 14:11	0° \approx	
	16203 Apr 22 14:45	0° \approx		evening max el	16205 Sep 03 14:00	14° \approx 35'57	46°39'57
desc. node	16203 May 05 20:59	16° \approx 19'55			16205 Sep 20 01:57	0° \approx	
morning set	16203 May 10 23:20	22° \approx 37'25		greatest brilliancy	16205 Oct 13 01:32	14° \approx 57'02	-4.9m
	16203 May 16 22:37	0° \approx		desc. node	16205 Oct 20 10:07	16° \approx 54'27	
	16203 Jun 10 03:38	0° \approx		retrograde	16205 Oct 23 22:00	17° \approx 08'56	
max. Earth dist.	16203 Jun 16 02:56	7° \approx 25'20	1.72285 AU	evening set	16205 Nov 08 06:10	12° \approx 33'40	
				min. Earth dist.	16205 Nov 13 03:07	9° \approx 42'01	0.27441 AU
superior conj	16203 Jun 19 04:18	11° \approx 13'26	-1°22'54	inferior conj	16205 Nov 13 21:15	9° \approx 14'22	-5°50'11
minimum elong	16203 Jun 18 21:10	10° \approx 51'15	1°23'30	minimum elong	16205 Nov 13 10:23	9° \approx 30'55	5°46'51
	16203 Jul 04 06:04	0° \approx		morning rise	16205 Nov 18 15:02	6° \approx 25'25	
	16203 Jul 28 06:49	0° \approx		direct	16205 Dec 04 17:49	1° \approx 27'02	

greatest brilliancy	16205 Dec 14 06:30	3°♌06'53	-4.8m			16208 Jul 12 10:48	0°♍	
	16206 Jan 20 21:21	0°♌		asc. node		16208 Jul 28 01:08	19°♍14'03	
morning max el	16206 Jan 23 01:01	2°♌04'03	46°00'32			16208 Aug 05 19:24	0°♌	
asc. node	16206 Feb 10 10:58	20°♌54'37				16208 Aug 30 09:27	0°♌	
	16206 Feb 18 20:19	0°♌				16208 Sep 24 10:26	0°♌	
	16206 Mar 17 08:08	0°♌				16208 Oct 20 10:50	0°♌	
	16206 Apr 11 19:37	0°♌		evening max el		16208 Nov 14 12:07	26°♌36'23	46°28'15
	16206 May 06 18:24	0°♌		desc. node		16208 Nov 16 20:43	28°♌55'22	
	16206 May 31 09:03	0°♌				16208 Nov 17 23:25	0°♌	
desc. node	16206 Jun 02 09:31	2°♌28'36		greatest brilliancy		16208 Dec 24 00:23	26°♌12'15	-4.8m
	16206 Jun 24 17:30	0°♌		retrograde		16209 Jan 03 07:35	28°♌08'13	
	16206 Jul 18 21:08	0°♌		evening set		16209 Jan 21 11:25	21°♌56'15	
morning set	16206 Jul 23 11:35	5°♌44'13		inferior conj		16209 Jan 24 16:53	19°♌56'23	-8°24'31
	16206 Aug 11 21:33	0°♌		minimum elong		16209 Jan 24 23:58	19°♌45'19	8°23'16
max. Earth dist.	16206 Aug 31 08:22	24°♌21'21	1.71577 AU	min. Earth dist.		16209 Jan 24 14:14	20°♌00'32	0.28568 AU
				morning rise		16209 Jan 28 12:40	17°♌35'36	
superior conj	16206 Sep 01 03:30	25°♌21'16	-0°50'42	direct		16209 Feb 14 23:12	11°♌51'49	
minimum elong	16206 Sep 01 14:23	25°♌55'22	0°50'23	greatest brilliancy		16209 Feb 25 05:07	13°♌46'53	-4.8m
	16206 Sep 04 20:28	0°♌		asc. node		16209 Mar 09 20:39	20°♌23'27	
asc. node	16206 Sep 23 02:32	22°♌52'11				16209 Mar 22 11:14	0°♌	
	16206 Sep 28 19:09	0°♌		morning max el		16209 Apr 05 00:46	12°♌25'39	45°45'02
evening rise	16206 Oct 10 21:44	15°♌09'32				16209 Apr 22 04:24	0°♌	
	16206 Oct 22 18:39	0°♌				16209 May 19 03:29	0°♌	
	16206 Nov 15 20:30	0°♌				16209 Jun 13 18:22	0°♌	
	16206 Dec 10 03:10	0°♌		desc. node		16209 Jun 29 21:16	19°♌20'20	
	16207 Jan 03 18:05	0°♌				16209 Jul 08 16:16	0°♌	
desc. node	16207 Jan 12 18:52	10°♌52'00				16209 Aug 02 03:41	0°♌	
	16207 Jan 28 21:10	0°♌				16209 Aug 26 08:42	0°♌	
	16207 Feb 23 17:59	0°♌				16209 Sep 19 10:15	0°♌	
	16207 Mar 22 21:52	0°♌		morning set		16209 Oct 05 11:44	20°♌04'19	
evening max el	16207 Apr 09 01:12	17°♌31'19	46°02'47			16209 Oct 13 10:19	0°♌	
	16207 Apr 22 15:24	0°♌		asc. node		16209 Oct 20 15:57	9°♌02'50	
asc. node	16207 May 05 15:05	9°♌57'41				16209 Nov 06 09:58	0°♌	
greatest brilliancy	16207 May 18 12:57	16°♌39'35	-4.8m					
retrograde	16207 May 28 09:18	18°♌27'08		superior conj		16209 Nov 13 16:11	9°♌04'26	0°54'36
evening set	16207 Jun 14 14:58	12°♌42'21		minimum elong		16209 Nov 13 05:43	8°♌31'45	0°54'49
inferior conj	16207 Jun 18 07:56	10°♌24'50	8°29'03	max. Earth dist.		16209 Nov 15 05:51	11°♌02'07	1.71887 AU
minimum elong	16207 Jun 18 00:45	10°♌36'07	8°27'33			16209 Nov 30 10:14	0°♌	
min. Earth dist.	16207 Jun 18 10:26	10°♌20'56	0.28100 AU	evening rise		16209 Dec 21 10:48	26°♌10'58	
morning rise	16207 Jun 21 10:30	8°♌29'01				16209 Dec 24 12:33	0°♌	
direct	16207 Jul 09 10:48	2°♌16'31				16210 Jan 17 18:46	0°♌	
greatest brilliancy	16207 Jul 19 10:42	4°♌09'43	-4.8m	desc. node		16210 Feb 09 08:06	27°♌38'33	
	16207 Aug 23 20:22	0°♌				16210 Feb 11 06:32	0°♌	
desc. node	16207 Aug 25 16:11	1°♌46'40				16210 Mar 08 00:44	0°♌	
morning max el	16207 Aug 28 20:53	4°♌57'00	46°52'53			16210 Apr 02 02:13	0°♌	
	16207 Sep 21 08:17	0°♌				16210 Apr 27 13:57	0°♌	
	16207 Oct 17 11:02	0°♌				16210 May 23 21:31	0°♌	
	16207 Nov 11 16:32	0°♌		asc. node		16210 Jun 02 02:04	10°♌04'47	
	16207 Dec 06 11:48	0°♌		evening max el		16210 Jun 20 08:55	29°♌04'14	46°22'49
asc. node	16207 Dec 16 15:12	12°♌21'49				16210 Jun 21 07:35	0°♌	
	16207 Dec 31 01:01	0°♌		greatest brilliancy		16210 Jul 30 14:09	29°♌04'35	-4.9m
	16208 Jan 24 10:28	0°♌				16210 Aug 02 17:40	0°♌	
	16208 Feb 17 18:07	0°♌		retrograde		16210 Aug 09 03:15	0°♌47'14	
morning set	16208 Feb 27 15:27	12°♌12'25				16210 Aug 15 08:58	30°♌	
	16208 Mar 13 01:29	0°♌		evening set		16210 Aug 25 01:06	25°♌53'42	
				inferior conj		16210 Aug 29 19:28	23°♌03'05	5°39'28
superior conj	16208 Apr 05 02:40	28°♌26'12	0°03'10	minimum elong		16210 Aug 30 06:09	22°♌46'41	5°36'35
minimum elong	16208 Apr 05 03:19	28°♌28'12	0°02'52	min. Earth dist.		16210 Aug 30 11:45	22°♌38'06	0.27112 AU
behind sun begin	16208 Apr 04 03:56	27°♌16'04		morning rise		16210 Sep 04 10:51	19°♌41'57	
behind sun end	16208 Apr 06 02:42	29°♌40'20		direct		16210 Sep 19 14:23	15°♌11'24	
max. Earth dist.	16208 Apr 05 00:36	28°♌19'49	1.73070 AU	desc. node		16210 Sep 22 01:55	15°♌18'41	
desc. node	16208 Apr 06 09:29	0°♌01'14		greatest brilliancy		16210 Sep 29 22:02	17°♌10'10	-4.9m
	16208 Apr 06 09:05	0°♌				16210 Oct 20 16:46	0°♌	
	16208 Apr 30 16:27	0°♌		morning max el		16210 Nov 08 19:03	17°♌22'19	46°43'52
evening rise	16208 May 13 07:50	15°♌37'04				16210 Nov 21 02:14	0°♌	
	16208 May 24 22:56	0°♌				16210 Dec 18 06:44	0°♌	
	16208 Jun 18 04:39	0°♌		asc. node		16211 Jan 13 02:29	29°♌59'12	

	16211 Jan 13 02:46	0° \mathfrak{Z}			16213 Aug 20 08:38	0° \mathfrak{M}	
	16211 Feb 07 06:38	0° \approx		evening max el	16213 Sep 01 04:57	12° \mathfrak{M} 17'29	46°39'52
	16211 Mar 04 01:22	0° \mathfrak{H}			16213 Sep 20 12:02	0° \mathfrak{A}	
	16211 Mar 28 14:56	0° \mathfrak{Y}		greatest brilliancy	16213 Oct 10 14:59	12° \mathfrak{A} 34'55	-4.9m
	16211 Apr 22 01:21	0° \mathfrak{B}		desc. node	16213 Oct 19 12:03	14° \mathfrak{A} 42'23	
desc. node	16211 May 04 22:50	15° \mathfrak{B} 53'02		retrograde	16213 Oct 21 12:22	14° \mathfrak{A} 47'13	
morning set	16211 May 08 13:41	20° \mathfrak{B} 20'57		evening set	16213 Nov 05 16:42	10° \mathfrak{A} 16'20	
	16211 May 16 09:09	0° \mathfrak{II}		min. Earth dist.	16213 Nov 10 16:31	7° \mathfrak{A} 20'38	0.27393 AU
	16211 Jun 09 14:10	0° \mathfrak{E}		inferior conj	16213 Nov 11 10:27	6° \mathfrak{A} 53'19	-5°32'01
max. Earth dist.	16211 Jun 13 18:10	5° \mathfrak{E} 10'41	1.72323 AU	minimum elong	16213 Nov 10 23:50	7° \mathfrak{A} 09'30	5°28'40
				morning rise	16213 Nov 16 07:28	4° \mathfrak{A} 00'07	
superior conj	16211 Jun 16 17:40	8° \mathfrak{E} 53'01	-1°21'35		16213 Nov 25 15:27	30° \mathfrak{M}	
minimum elong	16211 Jun 16 09:50	8° \mathfrak{E} 28'39	1°22'10	direct	16213 Dec 02 07:20	29° \mathfrak{M} 06'36	
	16211 Jul 03 16:38	0° \mathfrak{Q}			16213 Dec 09 04:22	0° \mathfrak{A}	
evening rise	16211 Jul 26 03:10	28° \mathfrak{Q} 00'27		greatest brilliancy	16213 Dec 11 19:04	0° \mathfrak{A} 46'06	-4.8m
	16211 Jul 27 17:28	0° \mathfrak{N}		morning max el	16214 Jan 20 15:32	29° \mathfrak{A} 48'15	46°01'52
	16211 Aug 20 18:06	0° \mathfrak{L}			16214 Jan 20 20:23	0° \mathfrak{Z}	
asc. node	16211 Aug 25 14:34	6° \mathfrak{L} 03'11		asc. node	16214 Feb 09 12:45	20° \mathfrak{Z} 13'32	
	16211 Sep 13 20:01	0° \mathfrak{M}			16214 Feb 18 11:59	0° \approx	
	16211 Oct 08 01:04	0° \mathfrak{A}			16214 Mar 16 21:12	0° \mathfrak{H}	
	16211 Nov 01 12:28	0° \mathfrak{Z}			16214 Apr 11 07:27	0° \mathfrak{Y}	
	16211 Nov 26 12:08	0° \approx			16214 May 06 05:35	0° \mathfrak{B}	
desc. node	16211 Dec 15 08:18	21° \approx 56'21			16214 May 30 19:53	0° \mathfrak{II}	
	16211 Dec 22 10:53	0° \mathfrak{H}		desc. node	16214 Jun 01 11:27	2° \mathfrak{II} 01'21	
	16212 Jan 19 09:40	0° \mathfrak{Y}			16214 Jun 24 04:09	0° \mathfrak{E}	
evening max el	16212 Jan 25 15:15	6° \mathfrak{Y} 09'37	46°06'02		16214 Jul 18 07:42	0° \mathfrak{Q}	
	16212 Feb 23 19:07	0° \mathfrak{B}		morning set	16214 Jul 20 23:55	3° \mathfrak{Q} 20'08	
greatest brilliancy	16212 Mar 04 18:34	4° \mathfrak{B} 50'46	-4.8m		16214 Aug 11 08:06	0° \mathfrak{N}	
retrograde	16212 Mar 14 20:27	6° \mathfrak{B} 42'41		max. Earth dist.	16214 Aug 28 19:28	21° \mathfrak{N} 52'42	1.71583 AU
evening set	16212 Mar 29 21:39	2° \mathfrak{B} 17'48					
	16212 Apr 02 19:39	30° \mathfrak{R} \mathfrak{Y}		superior conj	16214 Aug 29 15:32	22° \mathfrak{N} 55'33	-0°53'49
inferior conj	16212 Apr 05 03:58	28° \mathfrak{Y} 32'20	-0°16'35	minimum elong	16214 Aug 30 02:44	23° \mathfrak{N} 30'41	0°53'31
minimum elong	16212 Apr 05 04:37	28° \mathfrak{Y} 31'20	0°16'40		16214 Sep 04 07:01	0° \mathfrak{L}	
min. Earth dist.	16212 Apr 05 05:54	28° \mathfrak{Y} 29'18	0.28406 AU	asc. node	16214 Sep 22 04:17	22° \mathfrak{L} 24'40	
asc. node	16212 Apr 06 06:38	27° \mathfrak{Y} 50'35			16214 Sep 28 05:42	0° \mathfrak{M}	
morning rise	16212 Apr 11 11:21	24° \mathfrak{Y} 44'48		evening rise	16214 Oct 08 10:55	12° \mathfrak{M} 47'30	
direct	16212 Apr 26 08:36	20° \mathfrak{Y} 22'19			16214 Oct 22 05:17	0° \mathfrak{A}	
greatest brilliancy	16212 May 07 00:25	22° \mathfrak{Y} 27'35	-4.8m		16214 Nov 15 07:15	0° \mathfrak{Z}	
	16212 May 20 18:36	0° \mathfrak{B}			16214 Dec 09 14:12	0° \approx	
morning max el	16212 Jun 14 22:06	21° \mathfrak{B} 40'58	46°14'47		16215 Jan 03 05:35	0° \mathfrak{H}	
	16212 Jun 23 03:19	0° \mathfrak{II}		desc. node	16215 Jan 11 20:42	10° \mathfrak{H} 22'22	
	16212 Jul 20 12:30	0° \mathfrak{E}			16215 Jan 28 09:29	0° \mathfrak{Y}	
desc. node	16212 Jul 27 08:06	7° \mathfrak{E} 50'33			16215 Feb 23 07:51	0° \mathfrak{B}	
	16212 Aug 15 04:16	0° \mathfrak{Q}			16215 Mar 22 15:17	0° \mathfrak{II}	
	16212 Sep 09 01:06	0° \mathfrak{N}		evening max el	16215 Apr 06 16:23	15° \mathfrak{II} 17'55	46°02'25
	16212 Oct 03 12:35	0° \mathfrak{L}			16215 Apr 22 22:32	0° \mathfrak{E}	
	16212 Oct 27 19:31	0° \mathfrak{M}		asc. node	16215 May 04 17:04	8° \mathfrak{E} 39'37	
asc. node	16212 Nov 17 04:58	25° \mathfrak{M} 17'10		greatest brilliancy	16215 May 16 03:04	14° \mathfrak{E} 23'40	-4.8m
	16212 Nov 21 00:04	0° \mathfrak{A}		retrograde	16215 May 25 23:22	16° \mathfrak{E} 11'03	
	16212 Dec 15 03:17	0° \mathfrak{Z}		evening set	16215 Jun 12 01:54	10° \mathfrak{E} 32'02	
morning set	16212 Dec 16 19:03	2° \mathfrak{Z} 03'38		inferior conj	16215 Jun 15 22:45	8° \mathfrak{E} 08'30	8°20'47
	16213 Jan 08 06:21	0° \approx		minimum elong	16215 Jun 15 14:56	8° \mathfrak{E} 20'46	8°19'07
				min. Earth dist.	16215 Jun 16 00:33	8° \mathfrak{E} 05'38	0.28120 AU
superior conj	16213 Jan 23 03:01	18° \approx 26'56	1°22'47	morning rise	16215 Jun 19 03:55	6° \mathfrak{E} 08'26	
minimum elong	16213 Jan 23 09:04	18° \approx 45'42	1°23'13	direct	16215 Jul 07 01:49	0° \mathfrak{E} 00'04	
max. Earth dist.	16213 Jan 25 11:47	21° \approx 22'56	1.72739 AU	greatest brilliancy	16215 Jul 17 01:33	1° \mathfrak{E} 52'45	-4.8m
	16213 Feb 01 10:44	0° \mathfrak{H}			16215 Aug 23 19:44	0° \mathfrak{Q}	
	16213 Feb 25 17:41	0° \mathfrak{Y}		desc. node	16215 Aug 24 18:03	0° \mathfrak{Q} 55'10	
evening rise	16213 Mar 01 17:22	4° \mathfrak{Y} 54'37		morning max el	16215 Aug 26 10:36	2° \mathfrak{Q} 36'20	46°52'01
desc. node	16213 Mar 08 21:40	13° \mathfrak{Y} 44'28			16215 Sep 21 00:27	0° \mathfrak{N}	
	16213 Mar 22 03:26	0° \mathfrak{B}			16215 Oct 17 00:42	0° \mathfrak{L}	
	16213 Apr 15 15:24	0° \mathfrak{II}			16215 Nov 11 04:54	0° \mathfrak{M}	
	16213 May 10 05:15	0° \mathfrak{E}			16215 Dec 05 23:22	0° \mathfrak{A}	
	16213 Jun 03 22:09	0° \mathfrak{Q}		asc. node	16215 Dec 15 17:06	11° \mathfrak{A} 52'57	
	16213 Jun 28 21:44	0° \mathfrak{N}			16215 Dec 30 12:04	0° \mathfrak{Z}	
asc. node	16213 Jun 29 14:03	0° \mathfrak{N} 48'33			16216 Jan 23 21:11	0° \approx	
	16213 Jul 24 11:21	0° \mathfrak{L}			16216 Feb 17 04:39	0° \mathfrak{H}	

morning set	16216 Feb 25 08:10	10° X 03'33		inferior conj	16218 Aug 27 08:38	20° M 40'18	5°57'53
	16216 Mar 12 11:55	0° Y		minimum elong	16218 Aug 27 19:32	20° M 23'35	5°55'00
				min. Earth dist.	16218 Aug 28 01:36	20° M 14'17	0.27146 AU
superior conj	16216 Apr 02 18:20	26° Y 14'25	0°06'38	morning rise	16218 Sep 01 21:09	17° M 23'13	
minimum elong	16216 Apr 02 19:48	26° Y 18'56	0°06'18	direct	16218 Sep 17 03:34	12° M 47'36	
behind sun begin	16216 Apr 01 21:51	25° Y 11'15		desc. node	16218 Sep 21 03:53	13° M 06'33	
behind sun end	16216 Apr 03 17:44	27° Y 26'36		greatest brilliancy	16218 Sep 27 12:01	14° M 47'28	-4.9m
max. Earth dist.	16216 Apr 02 17:10	26° Y 10'49	1.73074 AU		16218 Oct 21 03:20	0° L	
desc. node	16216 Apr 05 11:23	29° Y 35'02		morning max el	16218 Nov 06 09:36	15° L 02'55	46°44'57
	16216 Apr 05 19:29	0° B			16218 Nov 20 20:57	0° M	
	16216 Apr 30 02:53	0° I			16218 Dec 17 21:27	0° X	
evening rise	16216 May 10 23:01	13° I 23'15		asc. node	16219 Jan 12 04:17	29° X 26'22	
	16216 May 24 09:29	0° C			16219 Jan 12 15:39	0° Z	
	16216 Jun 17 15:26	0° O			16219 Feb 06 18:32	0° \approx	
	16216 Jul 11 21:54	0° M			16219 Mar 03 12:39	0° X	
asc. node	16216 Jul 27 02:53	18° M 44'30			16219 Mar 28 01:52	0° Y	
	16216 Aug 05 06:58	0° L			16219 Apr 21 12:07	0° B	
	16216 Aug 29 21:45	0° M		desc. node	16219 May 04 00:41	15° B 25'42	
	16216 Sep 23 23:59	0° X		morning set	16219 May 06 04:01	18° B 04'05	
	16216 Oct 20 02:58	0° Z			16219 May 15 19:51	0° I	
evening max el	16216 Nov 12 01:54	24° Z 17'17	46°28'58		16219 Jun 09 00:52	0° C	
desc. node	16216 Nov 15 22:45	28° Z 04'13		max. Earth dist.	16219 Jun 11 10:00	2° C 57'31	1.72357 AU
	16216 Nov 17 23:20	0° \approx					
greatest brilliancy	16216 Dec 21 15:44	23° \approx 58'30	-4.8m	superior conj	16219 Jun 14 07:07	6° C 32'19	-1°20'08
retrograde	16216 Dec 31 22:09	25° \approx 54'15		minimum elong	16219 Jun 13 22:37	6° C 05'55	1°20'40
evening set	16217 Jan 19 04:50	19° \approx 39'12			16219 Jul 03 03:20	0° O	
inferior conj	16217 Jan 22 08:02	17° \approx 42'51	-8°31'45	evening rise	16219 Jul 23 15:33	25° O 35'40	
minimum elong	16217 Jan 22 14:27	17° \approx 32'50	8°30'37		16219 Jul 27 04:15	0° M	
min. Earth dist.	16217 Jan 22 04:56	17° \approx 47'41	0.28553 AU		16219 Aug 20 05:00	0° L	
morning rise	16217 Jan 26 00:09	15° \approx 27'21		asc. node	16219 Aug 24 16:24	5° L 34'51	
direct	16217 Feb 12 13:42	9° \approx 38'38			16219 Sep 13 07:07	0° M	
greatest brilliancy	16217 Feb 22 19:35	11° \approx 33'08	-4.8m		16219 Oct 07 12:30	0° X	
asc. node	16217 Mar 08 22:37	19° \approx 08'59			16219 Nov 01 00:27	0° Z	
	16217 Mar 22 16:08	0° X			16219 Nov 26 01:08	0° \approx	
morning max el	16217 Apr 02 14:40	10° X 09'07	45°44'50	desc. node	16219 Dec 14 10:04	21° \approx 20'31	
	16217 Apr 21 21:23	0° Y			16219 Dec 22 01:55	0° X	
	16217 May 18 17:11	0° B			16220 Jan 19 06:04	0° Y	
	16217 Jun 13 06:38	0° I		evening max el	16220 Jan 23 06:58	3° Y 57'48	46°06'39
desc. node	16217 Jun 28 23:08	18° I 50'24			16220 Feb 25 09:26	0° B	
	16217 Jul 08 03:48	0° C		greatest brilliancy	16220 Mar 02 09:10	2° B 36'54	-4.8m
	16217 Aug 01 14:48	0° O		retrograde	16220 Mar 12 12:15	4° B 29'33	
	16217 Aug 25 19:35	0° M		evening set	16220 Mar 27 14:03	0° B 03'00	
	16217 Sep 18 21:00	0° L			16220 Mar 27 16:14	30° R Y	
morning set	16217 Oct 03 00:43	17° L 41'25		inferior conj	16220 Apr 02 19:22	26° Y 18'49	-0°38'05
	16217 Oct 12 20:58	0° M		minimum elong	16220 Apr 02 20:49	26° Y 16'32	0°37'52
asc. node	16217 Oct 19 17:53	8° M 35'37		min. Earth dist.	16220 Apr 02 21:21	26° Y 15'42	0.28419 AU
	16217 Nov 05 20:35	0° X		asc. node	16220 Apr 05 08:37	24° Y 43'33	
				morning rise	16220 Apr 09 03:27	22° Y 30'43	
superior conj	16217 Nov 11 06:15	6° X 45'19	0°51'42	direct	16220 Apr 24 00:34	18° Y 08'52	
minimum elong	16217 Nov 10 20:00	6° X 13'16	0°51'54	greatest brilliancy	16220 May 04 16:04	20° Y 14'20	-4.8m
max. Earth dist.	16217 Nov 12 15:16	8° X 28'30	1.71863 AU		16220 May 21 12:09	0° B	
	16217 Nov 29 20:50	0° Z		morning max el	16220 Jun 12 14:10	19° B 28'20	46°13'17
evening rise	16217 Dec 19 01:53	23° Z 55'44			16220 Jun 22 22:25	0° I	
	16217 Dec 23 23:10	0° \approx			16220 Jul 20 03:16	0° C	
	16218 Jan 17 05:31	0° X		desc. node	16220 Jul 26 09:54	7° C 14'33	
desc. node	16218 Feb 08 09:51	27° X 10'23			16220 Aug 14 17:16	0° O	
	16218 Feb 10 17:33	0° Y			16220 Sep 08 13:11	0° M	
	16218 Mar 07 12:13	0° B			16220 Oct 03 00:08	0° L	
	16218 Apr 01 14:27	0° I			16220 Oct 27 06:42	0° M	
	16218 Apr 27 03:29	0° C		asc. node	16220 Nov 16 06:47	24° M 48'51	
	16218 May 23 13:38	0° O			16220 Nov 20 10:59	0° X	
asc. node	16218 Jun 01 04:02	9° O 22'38		morning set	16220 Dec 14 10:19	29° X 48'26	
evening max el	16218 Jun 17 21:31	26° O 41'15	46°22'09		16220 Dec 14 14:02	0° Z	
	16218 Jun 21 07:02	0° M			16221 Jan 07 17:01	0° \approx	
greatest brilliancy	16218 Jul 28 03:50	26° M 42'38	-4.9m				
retrograde	16218 Aug 06 16:19	28° M 25'08		superior conj	16221 Jan 20 19:16	16° \approx 15'24	1°23'47
evening set	16218 Aug 22 17:33	23° M 26'08		minimum elong	16221 Jan 21 00:39	16° \approx 32'06	1°24'15

max. Earth dist.	16221 Jan 23 06:41	19° \approx 19'39	1.72716 AU	direct	16223 Jul 04 16:17	27° Π 41'46	
	16221 Jan 31 21:24	0° H		greatest brilliancy	16223 Jul 14 16:52	29° Π 34'44	-4.8m
	16221 Feb 25 04:26	0° Y			16223 Jul 15 19:39	0° E	
evening rise	16221 Feb 27 09:06	2° Y 42'10		desc. node	16223 Aug 23 20:07	0° Ω 03'42	
desc. node	16221 Mar 07 23:32	13° Y 17'02			16223 Aug 23 18:38	0° Ω	
	16221 Mar 21 14:21	0° B		morning max el	16223 Aug 23 23:36	0° Ω 12'26	46°51'15
	16221 Apr 15 02:34	0° Π			16223 Sep 20 16:46	0° M	
	16221 May 09 16:49	0° E			16223 Oct 16 14:36	0° $\underline{\text{A}}$	
	16221 Jun 03 10:21	0° Ω			16223 Nov 10 17:33	0° M	
	16221 Jun 28 10:57	0° M			16223 Dec 05 11:14	0° A	
asc. node	16221 Jun 28 15:48	0° M 14'26		asc. node	16223 Dec 14 18:53	11° A 22'43	
	16221 Jul 24 02:26	0° $\underline{\text{A}}$			16223 Dec 29 23:25	0° B	
	16221 Aug 20 03:56	0° M			16224 Jan 23 08:13	0° \approx	
evening max el	16221 Aug 29 20:17	9° M 59'05	46°39'49		16224 Feb 16 15:29	0° H	
	16221 Sep 21 01:59	0° A		morning set	16224 Feb 23 01:11	7° H 54'36	
greatest brilliancy	16221 Oct 08 05:07	10° A 13'15	-4.9m		16224 Mar 11 22:40	0° Y	
desc. node	16221 Oct 18 14:02	12° A 24'48					
retrograde	16221 Oct 19 02:34	12° A 25'08		superior conj	16224 Mar 31 10:12	24° Y 02'12	0°10'04
evening set	16221 Nov 03 03:43	7° A 58'39		minimum elong	16224 Mar 31 12:26	24° Y 09'07	0°09'43
inferior conj	16221 Nov 08 23:52	4° A 32'09	-5°13'16	behind sun begin	16224 Mar 30 17:28	23° Y 10'38	
minimum elong	16221 Nov 08 13:33	4° A 47'52	5°09'56	behind sun end	16224 Apr 01 07:24	25° Y 07'36	
min. Earth dist.	16221 Nov 08 06:18	4° A 58'56	0.27343 AU	max. Earth dist.	16224 Mar 31 09:49	24° Y 01'02	1.73085 AU
morning rise	16221 Nov 13 23:57	1° A 34'42		desc. node	16224 Apr 04 13:16	29° Y 07'39	
	16221 Nov 17 00:39	30° R M			16224 Apr 05 06:14	0° B	
direct	16221 Nov 29 21:02	26° M 46'13			16224 Apr 29 13:44	0° Π	
greatest brilliancy	16221 Dec 09 07:50	28° M 25'07	-4.8m	evening rise	16224 May 08 14:11	11° Π 08'06	
	16221 Dec 13 08:12	0° A			16224 May 23 20:30	0° E	
morning max el	16222 Jan 18 05:14	27° A 29'42	46°02'59		16224 Jun 17 02:40	0° Ω	
	16222 Jan 20 18:42	0° B			16224 Jul 11 09:27	0° M	
asc. node	16222 Feb 08 14:43	19° B 32'33		asc. node	16224 Jul 26 04:45	18° M 13'58	
	16222 Feb 18 03:43	0° \approx			16224 Aug 04 18:58	0° $\underline{\text{A}}$	
	16222 Mar 16 10:35	0° H			16224 Aug 29 10:29	0° M	
	16222 Apr 10 19:42	0° Y			16224 Sep 23 14:03	0° A	
	16222 May 05 17:12	0° B			16224 Oct 19 19:48	0° B	
	16222 May 30 07:08	0° Π		evening max el	16224 Nov 09 15:22	21° B 56'23	46°29'47
desc. node	16222 May 31 13:15	1° Π 32'25		desc. node	16224 Nov 15 00:36	27° B 10'38	
	16222 Jun 23 15:12	0° E			16224 Nov 18 00:52	0° \approx	
	16222 Jul 17 18:39	0° Ω		greatest brilliancy	16224 Dec 19 06:51	21° \approx 43'44	-4.8m
morning set	16222 Jul 18 12:02	0° Ω 54'11		retrograde	16224 Dec 29 13:08	23° \approx 40'03	
	16222 Aug 10 19:02	0° M		evening set	16225 Jan 16 22:05	17° \approx 22'03	
max. Earth dist.	16222 Aug 26 03:53	19° M 14'34	1.71589 AU	inferior conj	16225 Jan 19 23:19	15° \approx 28'57	-8°38'04
				minimum elong	16225 Jan 20 05:01	15° \approx 20'02	8°37'03
superior conj	16222 Aug 27 03:33	20° M 28'40	-0°56'50	min. Earth dist.	16225 Jan 19 19:41	15° \approx 34'35	0.28535 AU
minimum elong	16222 Aug 27 15:00	21° M 04'31	0°56'34	morning rise	16225 Jan 23 12:00	13° \approx 18'40	
	16222 Sep 03 17:56	0° $\underline{\text{A}}$		direct	16225 Feb 10 04:12	7° \approx 25'01	
asc. node	16222 Sep 21 06:13	21° $\underline{\text{A}}$ 56'29		greatest brilliancy	16225 Feb 20 10:25	9° \approx 19'31	-4.8m
	16222 Sep 27 16:39	0° M		asc. node	16225 Mar 08 00:36	17° \approx 56'20	
evening rise	16222 Oct 06 00:05	10° M 24'12			16225 Mar 22 19:24	0° H	
	16222 Oct 21 16:15	0° A		morning max el	16225 Mar 31 05:05	7° H 53'21	45°44'41
	16222 Nov 14 18:21	0° B			16225 Apr 21 14:14	0° Y	
	16222 Dec 09 01:34	0° \approx			16225 May 18 07:02	0° B	
	16223 Jan 02 17:26	0° H			16225 Jun 12 19:10	0° Π	
desc. node	16223 Jan 10 22:31	9° H 51'39		desc. node	16225 Jun 28 00:57	18° Π 19'21	
	16223 Jan 27 22:13	0° Y			16225 Jul 07 15:40	0° E	
	16223 Feb 22 22:18	0° B			16225 Aug 01 02:17	0° Ω	
	16223 Mar 22 09:42	0° Π			16225 Aug 25 06:49	0° M	
evening max el	16223 Apr 04 06:41	13° Π 00'46	46°01'54		16225 Sep 18 08:03	0° $\underline{\text{A}}$	
	16223 Apr 23 09:20	0° E		morning set	16225 Sep 30 13:27	15° $\underline{\text{A}}$ 16'48	
asc. node	16223 May 03 18:59	7° E 16'59			16225 Oct 12 07:53	0° M	
greatest brilliancy	16223 May 13 17:27	12° E 06'07	-4.8m	asc. node	16225 Oct 18 19:38	8° M 07'00	
retrograde	16223 May 23 13:04	13° E 53'12			16225 Nov 05 07:26	0° A	
evening set	16223 Jun 09 12:36	8° E 19'57					
inferior conj	16223 Jun 13 13:27	5° E 50'25	8°11'34	superior conj	16225 Nov 08 20:12	4° A 24'59	0°48'42
minimum elong	16223 Jun 13 05:04	6° E 03'36	8°09'45	minimum elong	16225 Nov 08 10:13	3° A 53'47	0°48'54
min. Earth dist.	16223 Jun 13 14:55	5° E 48'06	0.28137 AU	max. Earth dist.	16225 Nov 10 01:35	5° A 56'52	1.71841 AU
morning rise	16223 Jun 16 21:26	3° E 45'53			16225 Nov 29 07:40	0° B	
	16223 Jun 24 00:15	30° R Π		evening rise	16225 Dec 16 17:09	21° B 40'20	

	16225 Dec 23 10:03	0°≈			16228 Jul 19 17:39	0°☿		
	16226 Jan 16 16:30	0°✠		desc. node	16228 Jul 25 11:58	6°☿40'09		
desc. node	16226 Feb 07 11:47	26°✠42'09			16228 Aug 14 06:02	0°♊		
	16226 Feb 10 04:46	0°☿			16228 Sep 08 01:09	0°♎		
	16226 Mar 06 23:53	0°♄			16228 Oct 02 11:37	0°♈		
	16226 Apr 01 02:54	0°♊			16228 Oct 26 17:51	0°♎		
	16226 Apr 26 17:17	0°☿		asc. node	16228 Nov 15 08:35	24°♎20'29		
asc. node	16226 May 23 06:17	0°♊			16228 Nov 19 21:52	0°♄		
	16226 May 31 05:47	8°♊38'42		morning set	16228 Dec 12 01:13	27°♄32'15		
evening max el	16226 Jun 15 10:50	24°♊19'18	46°21'14		16228 Dec 14 00:43	0°♄		
	16226 Jun 21 08:03	0°♎			16229 Jan 07 03:34	0°≈		
greatest brilliancy	16226 Jul 25 16:48	24°♎18'32	-4.9m					
retrograde	16226 Aug 04 05:39	26°♎01'15		superior conj	16229 Jan 18 11:23	14°≈03'48	1°24'39	
evening set	16226 Aug 20 09:51	20°♎56'43		minimum elong	16229 Jan 18 16:04	14°≈18'20	1°25'10	
inferior conj	16226 Aug 24 21:33	18°♎15'41	6°15'40	max. Earth dist.	16229 Jan 21 01:41	17°≈17'02	1.72686 AU	
minimum elong	16226 Aug 25 08:35	17°♎58'46	6°12'51		16229 Jan 31 07:56	0°✠		
min. Earth dist.	16226 Aug 25 14:51	17°♎49'10	0.27183 AU		16229 Feb 24 15:02	0°☿		
morning rise	16226 Aug 30 06:59	15°♎03'06		evening rise	16229 Feb 25 00:51	0°☿30'14		
direct	16226 Sep 14 17:02	10°♎22'11		desc. node	16229 Mar 07 01:24	12°☿50'05		
desc. node	16226 Sep 20 05:51	10°♎58'02			16229 Mar 21 01:06	0°♄		
greatest brilliancy	16226 Sep 25 01:13	12°♎22'26	-4.9m		16229 Apr 14 13:33	0°♊		
	16226 Oct 21 11:33	0°♈			16229 May 09 04:10	0°☿		
morning max el	16226 Nov 04 00:27	12°♈43'29	46°46'07		16229 Jun 02 22:18	0°♊		
	16226 Nov 20 15:26	0°♎		asc. node	16229 Jun 27 17:46	29°♊41'43		
	16226 Dec 17 12:07	0°♄			16229 Jun 27 23:57	0°♎		
asc. node	16227 Jan 11 06:12	28°♄53'48			16229 Jul 23 17:24	0°♈		
	16227 Jan 12 04:34	0°♄			16229 Aug 19 23:34	0°♎		
	16227 Feb 06 06:26	0°≈		evening max el	16229 Aug 27 10:40	7°♎38'46	46°39'22	
	16227 Mar 02 23:58	0°✠			16229 Sep 21 20:36	0°♄		
	16227 Mar 27 12:49	0°☿		greatest brilliancy	16229 Oct 05 19:38	7°♄51'49	-4.9m	
	16227 Apr 20 22:53	0°♄		retrograde	16229 Oct 16 15:57	10°♄02'23		
desc. node	16227 May 03 02:27	14°♄58'09		desc. node	16229 Oct 17 15:54	10°♄01'11		
morning set	16227 May 03 19:00	15°♄49'10		evening set	16229 Oct 31 14:39	5°♄40'10		
	16227 May 15 06:32	0°♊		min. Earth dist.	16229 Nov 05 20:19	2°♄35'58	0.27298 AU	
	16227 Jun 08 11:33	0°☿		inferior conj	16229 Nov 06 13:00	2°♄10'29	-4°53'42	
max. Earth dist.	16227 Jun 09 02:49	0°☿47'24	1.72393 AU	minimum elong	16229 Nov 06 03:05	2°♄25'38	4°50'24	
					16229 Nov 10 03:57	30°♎		
superior conj	16227 Jun 11 20:53	4°☿12'40	-1°18'33	morning rise	16229 Nov 11 16:05	29°♎08'40		
minimum elong	16227 Jun 11 11:49	3°☿44'30	1°19'04	direct	16229 Nov 27 10:04	24°♎25'12		
	16227 Jul 02 14:05	0°♊		greatest brilliancy	16229 Dec 06 21:02	26°♎04'02	-4.8m	
evening rise	16227 Jul 21 03:58	23°♊10'43			16229 Dec 15 12:18	0°♄		
	16227 Jul 26 15:07	0°♎		morning max el	16230 Jan 15 17:47	25°♄08'26	46°04'20	
	16227 Aug 19 16:02	0°♈			16230 Jan 20 16:03	0°♄		
asc. node	16227 Aug 23 18:18	5°♈06'15		asc. node	16230 Feb 07 16:44	18°♄52'37		
	16227 Sep 12 18:24	0°♎			16230 Feb 17 19:00	0°≈		
	16227 Oct 07 00:06	0°♄			16230 Mar 15 23:34	0°✠		
	16227 Oct 31 12:36	0°♄			16230 Apr 10 07:34	0°☿		
	16227 Nov 25 14:17	0°≈			16230 May 05 04:27	0°♄		
desc. node	16227 Dec 13 11:57	20°≈44'42			16230 May 29 18:01	0°♊		
	16227 Dec 21 17:11	0°✠		desc. node	16230 May 30 15:04	1°♊04'34		
	16228 Jan 19 03:09	0°☿			16230 Jun 23 01:53	0°☿		
evening max el	16228 Jan 20 23:10	1°☿47'12	46°07'20	morning set	16230 Jul 16 00:36	28°☿30'49		
	16228 Feb 27 21:59	0°♄			16230 Jul 17 05:13	0°♊		
greatest brilliancy	16228 Feb 29 00:21	0°♄24'21	-4.8m		16230 Aug 10 05:33	0°♎		
retrograde	16228 Mar 10 04:06	2°♄17'03		max. Earth dist.	16230 Aug 23 11:21	16°♎34'44	1.71600 AU	
	16228 Mar 20 20:13	30°♎						
evening set	16228 Mar 25 06:52	27°☿49'01		superior conj	16230 Aug 24 16:04	18°♎04'38	-0°59'42	
inferior conj	16228 Mar 31 10:56	24°☿06'11	-0°59'23	minimum elong	16230 Aug 25 03:39	18°♎40'55	0°59'29	
minimum elong	16228 Mar 31 13:11	24°☿02'39	0°58'54		16230 Sep 03 04:28	0°♈		
min. Earth dist.	16228 Mar 31 12:56	24°☿03'03	0.28426 AU	asc. node	16230 Sep 20 07:58	21°♈28'57		
asc. node	16228 Apr 04 10:31	21°☿39'05			16230 Sep 27 03:13	0°♎		
morning rise	16228 Apr 06 19:29	20°☿17'38		evening rise	16230 Oct 03 13:22	8°♎02'25		
direct	16228 Apr 21 16:48	15°☿56'34			16230 Oct 21 02:55	0°♄		
greatest brilliancy	16228 May 02 07:26	18°☿01'32	-4.8m		16230 Nov 14 05:11	0°♄		
	16228 May 22 00:48	0°♄			16230 Dec 08 12:41	0°≈		
morning max el	16228 Jun 10 05:42	17°♄15'09	46°11'48		16231 Jan 02 05:03	0°✠		
	16228 Jun 22 16:44	0°♊		desc. node	16231 Jan 10 00:27	9°✠22'01		

	16231 Jan 27 10:44	0°Υ			16233 Jul 07 03:02	0°Ϣ		
	16231 Feb 22 12:34	0°Ϡ			16233 Jul 31 13:18	0°Ω		
	16231 Mar 22 04:08	0°Π			16233 Aug 24 17:34	0°ϯ		
evening max el	16231 Apr 01 20:18	10°Π43'18	46°01'38		16233 Sep 17 18:38	0°Ϸ		
	16231 Apr 23 23:02	0°Ϣ		morning set	16233 Sep 28 02:27	12°Ϸ54'24		
asc. node	16231 May 02 20:51	5°Ϣ53'06			16233 Oct 11 18:22	0°ϯ		
greatest brilliancy	16231 May 11 07:53	9°Ϣ50'17	-4.8m	asc. node	16233 Oct 17 21:25	7°ϯ39'53		
retrograde	16231 May 21 03:14	11°Ϣ37'32			16233 Nov 04 17:51	0°Ϡ		
evening set	16231 Jun 06 23:28	6°Ϣ09'42						
inferior conj	16231 Jun 11 04:20	3°Ϣ34'21	8°01'36	superior conj	16233 Nov 06 10:20	2°Ϡ06'37	0°45'38	
minimum elong	16231 Jun 10 19:27	3°Ϣ48'21	7°59'37	minimum elong	16233 Nov 06 00:42	1°Ϡ36'29	0°45'48	
min. Earth dist.	16231 Jun 11 05:30	3°Ϣ32'32	0.28153 AU	max. Earth dist.	16233 Nov 07 14:23	3°Ϡ34'18	1.71819 AU	
morning rise	16231 Jun 14 15:16	1°Ϣ25'20			16233 Nov 28 18:03	0°Ϡ		
	16231 Jun 17 01:32	30°ϠΠ		evening rise	16233 Dec 14 08:42	19°Ϡ27'07		
direct	16231 Jul 02 06:39	25°Π25'21			16233 Dec 22 20:28	0°≈		
greatest brilliancy	16231 Jul 12 08:39	27°Π19'10	-4.8m		16234 Jan 16 03:05	0°Ϡ		
	16231 Jul 18 08:26	0°Ϣ		desc. node	16234 Feb 06 13:36	26°Ϡ14'38		
morning max el	16231 Aug 21 13:13	27°Ϣ51'53	46°50'36		16234 Feb 09 15:40	0°Υ		
desc. node	16231 Aug 22 21:58	29°Ϣ14'21			16234 Mar 06 11:17	0°Ϡ		
	16231 Aug 23 15:58	0°Ω			16234 Mar 31 15:06	0°Π		
	16231 Sep 20 08:13	0°ϯ			16234 Apr 26 06:55	0°Ϣ		
	16231 Oct 16 03:49	0°Ϸ			16234 May 22 22:54	0°Ω		
	16231 Nov 10 05:37	0°ϯ		asc. node	16234 May 30 07:48	7°Ω55'50		
	16231 Dec 04 22:37	0°Ϡ		evening max el	16234 Jun 13 00:58	22°Ω00'37	46°20'28	
asc. node	16231 Dec 13 20:48	10°Ϡ54'17			16234 Jun 21 09:58	0°ϯ		
	16231 Dec 29 10:22	0°Ϡ		greatest brilliancy	16234 Jul 23 05:37	21°ϯ55'48	-4.8m	
	16232 Jan 22 18:53	0°≈		retrograde	16234 Aug 01 19:09	23°ϯ38'43		
	16232 Feb 16 01:57	0°Ϡ		evening set	16234 Aug 18 02:21	18°ϯ28'48		
morning set	16232 Feb 20 17:50	5°Ϡ45'31		inferior conj	16234 Aug 22 10:33	15°ϯ52'27	6°32'40	
	16232 Mar 11 09:02	0°Υ		minimum elong	16234 Aug 22 21:37	15°ϯ35'27	6°29'56	
				min. Earth dist.	16234 Aug 23 03:48	15°ϯ25'58	0.27218 AU	
superior conj	16232 Mar 29 01:46	21°Υ50'17	0°13'30	morning rise	16234 Aug 27 16:39	12°ϯ44'32		
minimum elong	16232 Mar 29 04:47	21°Υ59'36	0°13'09	direct	16234 Sep 12 06:56	7°ϯ58'21		
behind sun begin	16232 Mar 28 15:14	21°Υ17'50		desc. node	16234 Sep 19 07:44	8°ϯ55'49		
behind sun end	16232 Mar 29 18:20	22°Υ41'22		greatest brilliancy	16234 Sep 22 13:54	9°ϯ58'01	-4.9m	
max. Earth dist.	16232 Mar 29 03:31	21°Υ55'41	1.73091 AU		16234 Oct 21 16:55	0°Ϸ		
desc. node	16232 Apr 03 14:56	28°Υ40'55		morning max el	16234 Nov 01 15:21	10°Ϸ25'19	46°47'12	
	16232 Apr 04 16:35	0°Ϡ			16234 Nov 20 09:04	0°ϯ		
	16232 Apr 29 00:09	0°Π			16234 Dec 17 02:14	0°Ϡ		
evening rise	16232 May 06 05:18	8°Π54'18		asc. node	16235 Jan 10 08:09	28°Ϡ22'32		
	16232 May 23 07:05	0°Ϣ			16235 Jan 11 17:01	0°Ϡ		
	16232 Jun 16 13:29	0°Ω			16235 Feb 05 17:58	0°≈		
	16232 Jul 10 20:34	0°ϯ			16235 Mar 02 10:58	0°Ϡ		
asc. node	16232 Jul 25 06:38	17°ϯ44'49			16235 Mar 26 23:32	0°Υ		
	16232 Aug 04 06:32	0°Ϸ			16235 Apr 20 09:28	0°Ϡ		
	16232 Aug 28 22:48	0°ϯ		morning set	16235 May 01 09:44	13°Ϡ34'09		
	16232 Sep 23 03:43	0°Ϡ		desc. node	16235 May 02 04:20	14°Ϡ31'29		
	16232 Oct 19 12:24	0°Ϡ			16235 May 14 17:03	0°Π		
evening max el	16232 Nov 07 05:03	19°Ϡ37'29	46°30'28	max. Earth dist.	16235 Jun 06 17:30	28°Π31'21	1.72425 AU	
desc. node	16232 Nov 14 02:29	26°Ϡ17'34			16235 Jun 07 22:03	0°Ϣ		
	16232 Nov 18 03:15	0°≈						
greatest brilliancy	16232 Dec 16 21:01	19°≈28'51	-4.8m	superior conj	16235 Jun 09 10:23	1°Ϣ52'48	-1°16'49	
retrograde	16232 Dec 27 04:25	21°≈26'35		minimum elong	16235 Jun 09 00:50	1°Ϣ23'09	1°17'18	
evening set	16233 Jan 14 14:50	15°≈05'48			16235 Jul 02 00:38	0°Ω		
inferior conj	16233 Jan 17 14:22	13°≈15'29	-8°43'32	evening rise	16235 Jul 18 16:09	20°Ω45'47		
minimum elong	16233 Jan 17 19:19	13°≈07'47	8°42'38		16235 Jul 26 01:46	0°ϯ		
min. Earth dist.	16233 Jan 17 09:54	13°≈22'28	0.28522 AU		16235 Aug 19 02:52	0°Ϸ		
morning rise	16233 Jan 20 23:52	11°≈10'16		asc. node	16235 Aug 22 20:01	4°Ϸ37'47		
direct	16233 Feb 07 18:46	5°≈11'46			16235 Sep 12 05:28	0°ϯ		
greatest brilliancy	16233 Feb 18 00:51	7°≈06'13	-4.8m		16235 Oct 06 11:32	0°Ϡ		
asc. node	16233 Mar 07 02:27	16°≈46'13			16235 Oct 31 00:36	0°Ϡ		
	16233 Mar 22 20:46	0°Ϡ			16235 Nov 25 03:19	0°≈		
morning max el	16233 Mar 28 20:16	5°Ϡ40'19	45°44'36	desc. node	16235 Dec 12 13:57	20°≈09'31		
	16233 Apr 21 06:23	0°Υ			16235 Dec 21 08:27	0°Ϡ		
	16233 May 17 20:21	0°Ϡ		evening max el	16236 Jan 18 15:02	29°Ϡ36'26	46°07'56	
	16233 Jun 12 07:12	0°Π			16236 Jan 19 00:47	0°Υ		
desc. node	16233 Jun 27 02:55	17°Π50'13		greatest brilliancy	16236 Feb 26 15:58	28°Υ12'51	-4.8m	

	16236 Mar 05 18:08	0°♄			16238 Aug 09 16:23	0°♍	
retrograde	16236 Mar 07 19:23	0°♄04'53		max. Earth dist.	16238 Aug 20 17:31	13°♍49'57	1.71613 AU
	16236 Mar 09 20:05	30°♋♂					
evening set	16236 Mar 22 23:47	25°♂35'17		superior conj	16238 Aug 22 04:07	15°♍38'16	-1°02'29
inferior conj	16236 Mar 29 02:28	21°♂54'00	-1°20'29	minimum elong	16238 Aug 22 15:47	16°♍14'47	1°02'18
minimum elong	16236 Mar 29 05:30	21°♂49'14	1°19'45		16238 Sep 02 15:17	0°♌	
min. Earth dist.	16236 Mar 29 04:42	21°♂50'30	0.28437 AU	asc. node	16238 Sep 19 09:44	21°♌00'36	
asc. node	16236 Apr 03 12:24	18°♂36'48			16238 Sep 26 14:03	0°♌	
morning rise	16236 Apr 04 11:16	18°♂04'58		evening rise	16238 Oct 01 02:11	5°♌38'20	
direct	16236 Apr 19 08:54	13°♂44'38			16238 Oct 20 13:50	0°♌	
greatest brilliancy	16236 Apr 29 22:57	15°♂48'59	-4.8m		16238 Nov 13 16:17	0°♌	
	16236 May 22 10:05	0°♄			16238 Dec 08 00:05	0°♌	
morning max el	16236 Jun 07 20:24	14°♄59'48	46°10'13		16239 Jan 01 16:59	0°♌	
	16236 Jun 22 10:36	0°♌		desc. node	16239 Jan 09 02:14	8°♌51'00	
	16236 Jul 19 07:52	0°♌			16239 Jan 26 23:36	0°♌	
desc. node	16236 Jul 24 13:48	6°♌05'19			16239 Feb 22 03:17	0°♌	
	16236 Aug 13 18:42	0°♌			16239 Mar 21 23:25	0°♌	
	16236 Sep 07 13:00	0°♌		evening max el	16239 Mar 30 10:03	8°♌25'36	46°01'29
	16236 Oct 01 22:59	0°♌			16239 Apr 24 18:00	0°♌	
	16236 Oct 26 04:54	0°♌		asc. node	16239 May 01 22:49	4°♌25'47	
asc. node	16236 Nov 14 10:29	23°♌52'42		greatest brilliancy	16239 May 08 21:44	7°♌33'05	-4.8m
	16236 Nov 19 08:41	0°♌		retrograde	16239 May 18 17:46	9°♌21'13	
morning set	16236 Dec 09 16:05	25°♌16'03		evening set	16239 Jun 04 10:18	3°♌58'25	
	16236 Dec 13 11:21	0°♌		inferior conj	16239 Jun 08 19:12	1°♌17'23	7°50'54
	16237 Jan 06 14:06	0°♌		minimum elong	16239 Jun 08 09:50	1°♌32'06	7°48'44
				min. Earth dist.	16239 Jun 08 19:50	1°♌16'24	0.28172 AU
superior conj	16237 Jan 16 03:38	11°♌52'40	1°25'24		16239 Jun 10 20:36	30°♌♌	
minimum elong	16237 Jan 16 07:37	12°♌04'59	1°25'56	morning rise	16239 Jun 12 09:13	29°♌03'50	
max. Earth dist.	16237 Jan 18 18:45	15°♌08'27	1.72653 AU	direct	16239 Jun 29 21:12	23°♌07'55	
	16237 Jan 30 18:27	0°♌		greatest brilliancy	16239 Jul 10 00:13	25°♌02'36	-4.8m
evening rise	16237 Feb 22 16:40	28°♌18'34			16239 Jul 19 23:02	0°♌	
	16237 Feb 24 01:37	0°♌		morning max el	16239 Aug 19 03:45	25°♌32'25	46°49'45
desc. node	16237 Mar 06 03:07	12°♌22'43		desc. node	16239 Aug 21 23:51	28°♌24'38	
	16237 Mar 20 11:50	0°♌			16239 Aug 23 13:02	0°♌	
	16237 Apr 14 00:34	0°♌			16239 Sep 19 23:55	0°♌	
	16237 May 08 15:37	0°♌			16239 Oct 15 17:25	0°♌	
	16237 Jun 02 10:27	0°♌			16239 Nov 09 18:05	0°♌	
asc. node	16237 Jun 26 19:37	29°♌07'56			16239 Dec 04 10:22	0°♌	
	16237 Jun 27 13:14	0°♌		asc. node	16239 Dec 12 22:41	10°♌24'41	
	16237 Jul 23 08:46	0°♌			16239 Dec 28 21:40	0°♌	
	16237 Aug 19 20:01	0°♌			16240 Jan 22 05:53	0°♌	
evening max el	16237 Aug 24 23:56	5°♌15'14	46°39'05		16240 Feb 15 12:46	0°♌	
	16237 Sep 22 22:11	0°♌		morning set	16240 Feb 18 10:29	3°♌35'19	
greatest brilliancy	16237 Oct 03 10:31	5°♌30'21	-4.9m		16240 Mar 10 19:46	0°♌	
retrograde	16237 Oct 14 04:56	7°♌39'21					
desc. node	16237 Oct 16 17:49	7°♌31'36		superior conj	16240 Mar 26 17:27	19°♌37'32	0°16'54
evening set	16237 Oct 29 01:44	3°♌20'46		minimum elong	16240 Mar 26 21:14	19°♌49'11	0°16'33
min. Earth dist.	16237 Nov 03 10:37	0°♌12'11	0.27254 AU	max. Earth dist.	16240 Mar 26 22:39	19°♌53'33	1.73095 AU
	16237 Nov 03 18:36	30°♌♌		desc. node	16240 Apr 02 16:51	28°♌13'43	
inferior conj	16237 Nov 04 02:08	29°♌48'28	-4°33'38		16240 Apr 04 03:19	0°♌	
minimum elong	16237 Nov 03 16:40	0°♌02'57	4°30'23		16240 Apr 28 10:58	0°♌	
morning rise	16237 Nov 09 08:04	26°♌42'27		evening rise	16240 May 03 20:40	6°♌40'12	
direct	16237 Nov 24 22:33	22°♌03'34			16240 May 22 18:02	0°♌	
greatest brilliancy	16237 Dec 04 10:47	23°♌43'03	-4.8m		16240 Jun 16 00:40	0°♌	
	16237 Dec 16 22:51	0°♌			16240 Jul 10 08:05	0°♌	
morning max el	16238 Jan 13 05:58	22°♌45'43	46°05'46	asc. node	16240 Jul 24 08:24	17°♌13'55	
	16238 Jan 20 12:46	0°♌			16240 Aug 03 18:36	0°♌	
asc. node	16238 Feb 06 18:30	18°♌12'07			16240 Aug 28 11:42	0°♌	
	16238 Feb 17 10:12	0°♌			16240 Sep 22 18:06	0°♌	
	16238 Mar 15 12:36	0°♌			16240 Oct 19 05:58	0°♌	
	16238 Apr 09 19:31	0°♌		evening max el	16240 Nov 04 19:35	17°♌19'06	46°31'21
	16238 May 04 15:48	0°♌		desc. node	16240 Nov 13 04:30	25°♌22'04	
	16238 May 29 05:04	0°♌			16240 Nov 18 08:04	0°♌	
desc. node	16238 May 29 17:00	0°♌36'38		greatest brilliancy	16240 Dec 14 10:47	17°♌11'56	-4.8m
	16238 Jun 22 12:46	0°♌		retrograde	16240 Dec 24 20:10	19°♌11'25	
morning set	16238 Jul 13 12:45	26°♌05'21		evening set	16241 Jan 12 07:16	12°♌48'17	
	16238 Jul 16 16:03	0°♌		inferior conj	16241 Jan 15 05:21	11°♌00'22	-8°48'21

minimum elong	16241 Jan 15 09:31	10° \approx 53'53	8°47'31		16243 Jul 25 12:44	0° \cap	
min. Earth dist.	16241 Jan 14 23:38	11° \approx 09'15	0.28502 AU		16243 Aug 18 13:59	0° $\underline{\cap}$	
morning rise	16241 Jan 18 11:52	8° \approx 59'56		asc. node	16243 Aug 21 21:52	4° $\underline{\cap}$ 08'52	
direct	16241 Feb 05 09:41	2° \approx 57'02			16243 Sep 11 16:48	0° \cap	
greatest brilliancy	16241 Feb 15 14:30	4° \approx 50'44	-4.8m		16243 Oct 05 23:13	0° \nearrow	
asc. node	16241 Mar 06 04:26	15° \approx 37'05			16243 Oct 30 12:53	0° \searrow	
	16241 Mar 22 21:21	0° \nearrow			16243 Nov 24 16:46	0° \approx	
morning max el	16241 Mar 26 12:03	3° \nearrow 27'38	45°44'31	desc. node	16243 Dec 11 15:42	19° \approx 32'28	
	16241 Apr 20 22:41	0° \cap			16243 Dec 21 00:20	0° \nearrow	
	16241 May 17 09:58	0° \searrow		evening max el	16244 Jan 16 06:17	27° \nearrow 23'01	46°08'29
	16241 Jun 11 19:36	0° \cap			16244 Jan 18 23:46	0° \cap	
desc. node	16241 Jun 26 04:44	17° \cap 19'32		greatest brilliancy	16244 Feb 24 08:15	26° \cap 01'06	-4.8m
	16241 Jul 06 14:46	0° \searrow		retrograde	16244 Mar 05 10:23	27° \cap 51'59	
	16241 Jul 31 00:39	0° \cap		evening set	16244 Mar 20 16:54	23° \cap 20'34	
	16241 Aug 24 04:42	0° \cap		inferior conj	16244 Mar 26 18:06	19° \cap 41'13	-1°41'30
	16241 Sep 17 05:39	0° $\underline{\cap}$		minimum elong	16244 Mar 26 21:54	19° \cap 35'15	1°40'30
morning set	16241 Sep 25 15:25	10° $\underline{\cap}$ 30'33		min. Earth dist.	16244 Mar 26 20:52	19° \cap 36'53	0.28445 AU
	16241 Oct 11 05:18	0° \cap		morning rise	16244 Apr 02 02:53	15° \cap 51'53	
asc. node	16241 Oct 16 23:21	7° \cap 11'48		asc. node	16244 Apr 02 14:24	15° \cap 36'20	
				direct	16244 Apr 17 00:26	11° \cap 32'05	
superior conj	16241 Nov 04 00:06	29° \cap 45'28	0°42'27	greatest brilliancy	16244 Apr 27 14:53	13° \cap 36'15	-4.8m
minimum elong	16241 Nov 03 14:53	29° \cap 16'38	0°42'36		16244 May 22 17:01	0° \searrow	
	16241 Nov 04 04:45	0° \nearrow		morning max el	16244 Jun 05 10:27	12° \searrow 42'16	46°08'43
max. Earth dist.	16241 Nov 05 03:54	1° \nearrow 12'24	1.71799 AU		16244 Jun 22 04:15	0° \cap	
	16241 Nov 28 04:56	0° \searrow			16244 Jul 18 22:06	0° \searrow	
evening rise	16241 Dec 11 23:50	17° \searrow 11'05		desc. node	16244 Jul 23 15:36	5° \searrow 30'03	
	16241 Dec 22 07:22	0° \approx			16244 Aug 13 07:28	0° \cap	
	16242 Jan 15 14:07	0° \nearrow			16244 Sep 07 00:59	0° \cap	
desc. node	16242 Feb 05 15:20	25° \nearrow 45'31			16244 Oct 01 10:29	0° $\underline{\cap}$	
	16242 Feb 09 03:00	0° \cap			16244 Oct 25 16:03	0° \cap	
	16242 Mar 05 23:09	0° \searrow		asc. node	16244 Nov 13 12:16	23° \cap 24'18	
	16242 Mar 31 03:48	0° \cap			16244 Nov 18 19:34	0° \nearrow	
	16242 Apr 25 21:07	0° \searrow		morning set	16244 Dec 07 07:06	22° \nearrow 59'57	
	16242 May 22 16:17	0° \cap			16244 Dec 12 22:05	0° \searrow	
asc. node	16242 May 29 09:43	7° \cap 11'03			16245 Jan 06 00:46	0° \approx	
evening max el	16242 Jun 10 15:36	19° \cap 42'09	46°19'42				
	16242 Jun 21 13:53	0° \cap		superior conj	16245 Jan 13 19:59	9° \approx 41'24	1°26'01
greatest brilliancy	16242 Jul 20 18:57	19° \cap 33'15	-4.8m	minimum elong	16245 Jan 13 23:11	9° \approx 51'22	1°26'34
retrograde	16242 Jul 30 08:34	21° \cap 15'41		max. Earth dist.	16245 Jan 16 09:50	12° \approx 53'19	1.72624 AU
evening set	16242 Aug 15 19:05	16° \cap 00'44			16245 Jan 30 05:07	0° \nearrow	
inferior conj	16242 Aug 19 23:45	13° \cap 28'58	6°48'49	evening rise	16245 Feb 20 08:24	26° \nearrow 06'08	
minimum elong	16242 Aug 20 10:47	13° \cap 12'01	6°46'11		16245 Feb 23 12:21	0° \cap	
min. Earth dist.	16242 Aug 20 16:57	13° \cap 02'31	0.27252 AU	desc. node	16245 Mar 05 05:00	11° \cap 55'20	
morning rise	16242 Aug 25 02:18	10° \cap 25'47			16245 Mar 19 22:44	0° \searrow	
direct	16242 Sep 09 20:56	5° \cap 34'27			16245 Apr 13 11:44	0° \cap	
desc. node	16242 Sep 18 09:41	6° \cap 58'01			16245 May 08 03:13	0° \searrow	
greatest brilliancy	16242 Sep 20 02:40	7° \cap 33'07	-4.9m		16245 Jun 01 22:46	0° \cap	
	16242 Oct 21 20:48	0° $\underline{\cap}$		asc. node	16245 Jun 25 21:25	28° \cap 33'33	
morning max el	16242 Oct 30 05:38	8° $\underline{\cap}$ 04'32	46°48'02		16245 Jun 27 02:43	0° \cap	
	16242 Nov 20 02:43	0° \cap			16245 Jul 23 00:29	0° $\underline{\cap}$	
	16242 Dec 16 16:38	0° \nearrow			16245 Aug 19 17:15	0° \cap	
asc. node	16243 Jan 09 09:56	27° \nearrow 49'33		evening max el	16245 Aug 22 12:47	2° \cap 50'29	46°38'49
	16243 Jan 11 05:50	0° \searrow			16245 Sep 24 10:23	0° \nearrow	
	16243 Feb 05 05:53	0° \approx		greatest brilliancy	16245 Oct 01 01:27	3° \nearrow 08'51	-4.9m
	16243 Mar 01 22:19	0° \nearrow		retrograde	16245 Oct 11 18:08	5° \nearrow 16'44	
	16243 Mar 26 10:35	0° \cap		desc. node	16245 Oct 15 19:48	4° \nearrow 56'41	
	16243 Apr 19 20:21	0° \searrow		evening set	16245 Oct 26 13:08	1° \nearrow 01'08	
morning set	16243 Apr 29 00:32	11° \searrow 18'26			16245 Oct 28 09:02	30° \searrow	
desc. node	16243 May 01 06:08	14° \searrow 03'42		min. Earth dist.	16245 Nov 01 01:09	27° \cap 48'32	0.27212 AU
	16243 May 14 03:52	0° \cap		inferior conj	16245 Nov 01 15:22	27° \cap 26'49	-4°12'58
max. Earth dist.	16243 Jun 04 06:19	26° \cap 08'37	1.72458 AU	minimum elong	16245 Nov 01 06:25	27° \cap 40'29	4°09'50
				morning rise	16245 Nov 07 00:05	24° \cap 16'53	
superior conj	16243 Jun 07 00:05	29° \cap 32'43	-1°14'58	direct	16245 Nov 22 10:45	19° \cap 42'06	
minimum elong	16243 Jun 06 14:07	29° \cap 01'46	1°15'24	greatest brilliancy	16245 Dec 02 00:51	21° \cap 22'50	-4.8m
	16243 Jun 07 08:52	0° \searrow			16245 Dec 17 23:15	0° \nearrow	
	16243 Jul 01 11:30	0° \cap		morning max el	16246 Jan 10 18:51	20° \nearrow 24'55	46°07'14
evening rise	16243 Jul 16 04:35	18° \cap 20'42			16246 Jan 20 08:41	0° \searrow	

asc. node	16246 Feb 05 20:29	17° ♄ 32'54		16248 Aug 28 00:23	0° ♍	
	16246 Feb 17 01:06	0° ♊		16248 Sep 22 08:19	0° ♈	
	16246 Mar 15 01:31	0° ♉		16248 Oct 18 23:37	0° ♎	
	16246 Apr 09 07:25	0° ♈	evening max el	16248 Nov 02 11:04	15° ♄ 03'51	46°32'05
	16246 May 04 03:08	0° ♊	desc. node	16248 Nov 12 06:18	24° ♄ 25'47	
desc. node	16246 May 28 18:46	0° ♈ 08'19		16248 Nov 18 14:37	0° ♊	
	16246 May 28 16:04	0° ♈	greatest brilliancy	16248 Dec 12 00:35	14° ♊ 55'48	-4.8m
	16246 Jun 21 23:35	0° ♎	retrograde	16248 Dec 22 11:54	16° ♊ 56'43	
morning set	16246 Jul 11 00:57	23° ♎ 40'21	evening set	16249 Jan 09 23:19	10° ♊ 32'02	
	16246 Jul 16 02:48	0° ♎	inferior conj	16249 Jan 12 20:15	8° ♊ 45'53	-8°52'19
	16246 Aug 09 03:07	0° ♎	minimum elong	16249 Jan 12 23:37	8° ♊ 40'38	8°51'34
max. Earth dist.	16246 Aug 18 02:47	11° ♎ 15'03	1.71631 AU	min. Earth dist.	16249 Jan 12 13:10	8° ♊ 56'52
				0.28477 AU		
				morning rise	16249 Jan 16 00:02	6° ♊ 49'43
superior conj	16246 Aug 19 16:15	13° ♎ 12'22	-1°05'09	direct	16249 Feb 03 00:52	0° ♊ 43'14
minimum elong	16246 Aug 20 03:54	13° ♎ 48'51	1°05'00	greatest brilliancy	16249 Feb 13 03:26	2° ♊ 35'22
	16246 Sep 02 02:03	0° ♊		asc. node	16249 Mar 05 06:23	14° ♊ 30'52
asc. node	16246 Sep 18 11:39	20° ♊ 32'52			16249 Mar 22 20:19	0° ♉
	16246 Sep 26 00:51	0° ♍		morning max el	16249 Mar 24 03:40	1° ♉ 15'46
evening rise	16246 Sep 28 15:06	3° ♍ 14'49			16249 Apr 20 14:15	0° ♈
	16246 Oct 20 00:41	0° ♈			16249 May 16 23:05	0° ♊
	16246 Nov 13 03:17	0° ♎			16249 Jun 11 07:35	0° ♈
	16246 Dec 07 11:22	0° ♊		desc. node	16249 Jun 25 06:33	16° ♈ 49'54
	16247 Jan 01 04:46	0° ♉			16249 Jul 06 02:11	0° ♎
desc. node	16247 Jan 08 04:05	8° ♉ 20'39			16249 Jul 30 11:42	0° ♎
	16247 Jan 26 12:23	0° ♈			16249 Aug 23 15:31	0° ♊
	16247 Feb 21 18:03	0° ♊			16249 Sep 16 16:19	0° ♊
	16247 Mar 21 19:09	0° ♈		morning set	16249 Sep 23 04:14	8° ♊ 07'17
evening max el	16247 Mar 28 00:52	6° ♈ 10'59	46°01'16		16249 Oct 10 15:53	0° ♍
	16247 Apr 25 19:45	0° ♎		asc. node	16249 Oct 16 01:04	6° ♍ 44'11
asc. node	16247 May 01 00:44	2° ♎ 55'42				
greatest brilliancy	16247 May 06 11:11	5° ♎ 15'51	-4.8m	superior conj	16249 Nov 01 13:38	27° ♍ 24'44
retrograde	16247 May 16 08:47	7° ♎ 05'21		minimum elong	16249 Nov 01 04:55	26° ♍ 57'27
evening set	16247 Jun 01 21:15	1° ♎ 47'30		max. Earth dist.	16249 Nov 02 18:27	28° ♍ 54'50
	16247 Jun 04 20:16	30° ♎ 11			16249 Nov 03 15:17	0° ♈
inferior conj	16247 Jun 06 10:05	29° ♈ 00'52	7°39'22		16249 Nov 27 15:27	0° ♎
minimum elong	16247 Jun 06 00:21	29° ♈ 16'08	7°37'02	evening rise	16249 Dec 09 14:53	14° ♎ 55'42
min. Earth dist.	16247 Jun 06 09:57	29° ♈ 01'03	0.28189 AU		16249 Dec 21 17:57	0° ♊
morning rise	16247 Jun 10 03:18	26° ♈ 42'43			16250 Jan 15 00:52	0° ♉
direct	16247 Jun 27 12:17	20° ♈ 51'07		desc. node	16250 Feb 04 17:16	25° ♉ 17'57
greatest brilliancy	16247 Jul 07 15:20	22° ♈ 46'12	-4.8m		16250 Feb 08 14:02	0° ♈
	16247 Jul 21 01:36	0° ♎			16250 Mar 05 10:40	0° ♊
morning max el	16247 Aug 16 19:12	23° ♎ 16'06	46°48'49		16250 Mar 30 16:10	0° ♈
desc. node	16247 Aug 21 01:53	27° ♎ 36'49			16250 Apr 25 11:03	0° ♎
	16247 Aug 23 09:09	0° ♎			16250 May 22 09:39	0° ♎
	16247 Sep 19 15:08	0° ♊		asc. node	16250 May 28 11:30	6° ♎ 26'22
	16247 Oct 15 06:39	0° ♊		evening max el	16250 Jun 08 05:39	17° ♎ 23'14
	16247 Nov 09 06:15	0° ♍			16250 Jun 21 19:21	0° ♎
	16247 Dec 03 21:53	0° ♈		greatest brilliancy	16250 Jul 18 08:45	17° ♎ 11'48
asc. node	16247 Dec 12 00:27	9° ♈ 55'22		retrograde	16250 Jul 27 21:18	18° ♎ 53'02
	16247 Dec 28 08:43	0° ♎		evening set	16250 Aug 13 11:44	13° ♎ 33'08
	16248 Jan 21 16:37	0° ♊		inferior conj	16250 Aug 17 12:53	11° ♎ 06'06
	16248 Feb 14 23:18	0° ♉		minimum elong	16250 Aug 17 23:46	10° ♎ 49'18
morning set	16248 Feb 16 03:27	1° ♉ 26'56		min. Earth dist.	16250 Aug 18 06:21	10° ♎ 39'09
	16248 Mar 10 06:12	0° ♈		0.27288 AU		
				morning rise	16250 Aug 22 11:37	8° ♎ 07'46
				direct	16250 Sep 07 10:23	3° ♎ 11'03
superior conj	16248 Mar 24 09:21	17° ♈ 26'16	0°20'17	desc. node	16250 Sep 17 11:38	5° ♎ 05'19
minimum elong	16248 Mar 24 13:52	17° ♈ 40'10	0°19'54	greatest brilliancy	16250 Sep 17 15:54	5° ♎ 09'13
max. Earth dist.	16248 Mar 24 19:57	17° ♈ 58'57	1.73101 AU		16250 Oct 21 22:45	0° ♊
desc. node	16248 Apr 01 18:41	27° ♈ 47'08		morning max el	16250 Oct 27 18:51	5° ♊ 41'48
	16248 Apr 03 13:47	0° ♊			16250 Nov 19 19:36	0° ♍
	16248 Apr 27 21:32	0° ♈			16250 Dec 16 06:29	0° ♈
evening rise	16248 May 01 12:08	4° ♈ 27'11		asc. node	16251 Jan 08 11:53	27° ♈ 18'27
	16248 May 22 04:47	0° ♎			16251 Jan 10 18:11	0° ♎
	16248 Jun 15 11:38	0° ♎			16251 Feb 04 17:22	0° ♎
	16248 Jul 09 19:23	0° ♎			16251 Mar 01 09:18	0° ♉
asc. node	16248 Jul 23 10:17	16° ♎ 44'10			16251 Mar 25 21:15	0° ♈
	16248 Aug 03 06:25	0° ♊			16251 Apr 19 06:51	0° ♊

morning set	16251 Apr 26 15:39	9°8'04"48		evening set	16253 Oct 24 00:35	28°11'41"03	
desc. node	16251 Apr 30 07:55	13°8'36"57		min. Earth dist.	16253 Oct 29 15:25	25°11'25"00	0.27177 AU
	16251 May 13 14:18	0°11'		inferior conj	16253 Oct 30 04:28	25°11'05"07	-3°51'35
max. Earth dist.	16251 Jun 01 19:15	23°11'47"30	1.72492 AU	minimum elong	16253 Oct 29 20:06	25°11'17"52	3°48'35
				morning rise	16253 Nov 04 15:56	21°11'51"36	
superior conj	16251 Jun 04 14:06	27°11'14"54	-1°13'00	direct	16253 Nov 19 23:04	17°11'20"19	
minimum elong	16251 Jun 04 03:46	26°11'42"51	1°13'24	greatest brilliancy	16253 Nov 29 14:51	19°11'02"32	-4.8m
	16251 Jun 06 19:18	0°12'			16253 Dec 18 17:09	0°12'	
	16251 Jun 30 22:00	0°12'		morning max el	16254 Jan 08 08:39	18°11'06"33	46°08'44
evening rise	16251 Jul 13 17:09	15°12'57"09			16254 Jan 20 03:55	0°12'	
	16251 Jul 24 23:22	0°12'		asc. node	16254 Feb 04 22:29	16°12'54"27	
	16251 Aug 18 00:49	0°12'			16254 Feb 16 15:42	0°12'	
asc. node	16251 Aug 20 23:45	3°12'40"54			16254 Mar 14 14:11	0°12'	
	16251 Sep 11 03:53	0°12'			16254 Apr 08 19:07	0°12'	
	16251 Oct 05 10:39	0°12'			16254 May 03 14:18	0°12'	
	16251 Oct 30 00:57	0°12'		desc. node	16254 May 27 20:36	29°12'40"35	
	16251 Nov 24 06:01	0°12'			16254 May 28 02:55	0°12'	
desc. node	16251 Dec 10 17:36	18°12'56"29			16254 Jun 21 10:17	0°12'	
	16251 Dec 20 16:10	0°12'		morning set	16254 Jul 08 13:25	21°12'16"37	
evening max el	16252 Jan 13 20:32	25°12'07"57	46°09'05		16254 Jul 15 13:25	0°12'	
	16252 Jan 18 23:27	0°12'			16254 Aug 08 13:41	0°12'	
greatest brilliancy	16252 Feb 22 00:34	23°12'50"05	-4.8m	max. Earth dist.	16254 Aug 15 15:05	8°12'50"13	1.71645 AU
retrograde	16252 Mar 03 01:11	25°12'39"56					
evening set	16252 Mar 18 10:02	21°12'06"11		superior conj	16254 Aug 17 04:40	10°12'47"53	-1°07'39
inferior conj	16252 Mar 24 09:39	17°12'29"16	-2°02'25	minimum elong	16254 Aug 17 16:12	11°12'24"01	1°07'34
minimum elong	16252 Mar 24 14:12	17°12'22"07	2°01'11		16254 Sep 01 12:36	0°12'	
min. Earth dist.	16252 Mar 24 13:13	17°12'23"40	0.28455 AU	asc. node	16254 Sep 17 13:23	20°12'05"08	
morning rise	16252 Mar 30 18:14	13°12'39"52			16254 Sep 25 11:26	0°12'	
asc. node	16252 Apr 01 16:17	12°12'39"47		evening rise	16254 Sep 26 04:15	0°12'52"37	
direct	16252 Apr 14 15:27	9°12'20"05			16254 Oct 19 11:24	0°12'	
greatest brilliancy	16252 Apr 25 07:16	11°12'24"52	-4.8m		16254 Nov 12 14:12	0°12'	
	16252 May 22 21:21	0°12'			16254 Dec 06 22:37	0°12'	
morning max el	16252 Jun 03 00:27	10°12'25"38	46°07'28		16254 Dec 31 16:35	0°12'	
	16252 Jun 21 21:06	0°12'		desc. node	16255 Jan 07 05:59	7°12'50"24	
	16252 Jul 18 11:48	0°12'			16255 Jan 26 01:14	0°12'	
desc. node	16252 Jul 22 17:40	4°12'56"57			16255 Feb 21 09:00	0°12'	
	16252 Aug 12 19:48	0°12'			16255 Mar 21 15:32	0°12'	
	16252 Sep 06 12:37	0°12'		evening max el	16255 Mar 25 16:22	3°12'58"11	46°01'07
	16252 Sep 30 21:42	0°12'			16255 Apr 27 08:30	0°12'	
	16252 Oct 25 02:58	0°12'		asc. node	16255 Apr 30 02:36	1°12'22"22	
asc. node	16252 Nov 12 14:06	22°12'56"38		greatest brilliancy	16255 May 04 00:23	2°12'58"25	-4.8m
	16252 Nov 18 06:15	0°12'		retrograde	16255 May 13 23:53	4°12'49"14	
morning set	16252 Dec 04 21:38	20°12'42"58			16255 May 29 15:49	30°12'11	
	16252 Dec 12 08:35	0°12'		evening set	16255 May 30 08:13	29°12'36"25	
	16253 Jan 05 11:11	0°12'		inferior conj	16255 Jun 04 00:51	26°12'44"06	7°27'03
				minimum elong	16255 Jun 03 14:49	26°12'59"51	7°24'36
superior conj	16253 Jan 11 12:01	7°12'29"56	1°26'29	min. Earth dist.	16255 Jun 03 23:51	26°12'45"41	0.28203 AU
minimum elong	16253 Jan 11 14:27	7°12'37"28	1°27'05	morning rise	16255 Jun 07 21:19	24°12'21"14	
max. Earth dist.	16253 Jan 13 23:44	10°12'35"17	1.72594 AU	direct	16255 Jun 25 03:43	18°12'34"16	
	16253 Jan 29 15:32	0°12'		greatest brilliancy	16255 Jul 05 05:56	20°12'29"02	-4.8m
evening rise	16253 Feb 18 00:03	23°12'54"12			16255 Jul 21 21:00	0°12'	
	16253 Feb 22 22:52	0°12'		morning max el	16255 Aug 14 10:58	21°12'00"45	46°47'59
desc. node	16253 Mar 04 06:49	11°12'28"30		desc. node	16255 Aug 20 03:44	26°12'49"22	
	16253 Mar 19 09:25	0°12'			16255 Aug 23 04:37	0°12'	
	16253 Apr 12 22:42	0°12'			16255 Sep 19 06:04	0°12'	
	16253 May 07 14:38	0°12'			16255 Oct 14 19:42	0°12'	
	16253 Jun 01 10:52	0°12'			16255 Nov 08 18:16	0°12'	
asc. node	16253 Jun 24 23:23	28°12'00"28			16255 Dec 03 09:17	0°12'	
	16253 Jun 26 15:59	0°12'		asc. node	16255 Dec 11 02:23	9°12'26"50	
	16253 Jul 22 16:04	0°12'			16255 Dec 27 19:44	0°12'	
	16253 Aug 19 14:56	0°12'			16256 Jan 21 03:22	0°12'	
evening max el	16253 Aug 20 01:33	0°12'26"35	46°38'28	morning set	16256 Feb 13 20:15	29°12'17"50	
	16253 Sep 26 17:53	0°12'			16256 Feb 14 09:54	0°12'	
greatest brilliancy	16253 Sep 28 15:41	0°12'46"55	-4.9m		16256 Mar 09 16:43	0°12'	
retrograde	16253 Oct 09 07:29	2°12'54"26					
desc. node	16253 Oct 14 21:39	2°12'16"23		superior conj	16256 Mar 22 01:05	15°12'14"12	0°23'38
	16253 Oct 21 09:28	30°12'11		minimum elong	16256 Mar 22 06:16	15°12'30"14	0°23'15

max. Earth dist.	16256 Mar 22 17:00	16° Υ 03'19	1.73101 AU	greatest brilliancy	16258 Sep 15 05:51	2° η 45'20	-4.9m
desc. node	16256 Mar 31 20:22	27° Υ 19'51		desc. node	16258 Sep 16 13:32	3° η 16'08	
	16256 Apr 03 00:19	0° \mathcal{B}			16258 Oct 21 23:46	0° \mathcal{A}	
	16256 Apr 27 08:11	0° Π		morning max el	16258 Oct 25 07:49	3° \mathcal{A} 17'17	46°49'55
evening rise	16256 Apr 29 03:26	2° Π 13'23			16258 Nov 19 12:29	0° \mathcal{M}	
	16256 May 21 15:37	0° \mathcal{E}			16258 Dec 15 20:28	0° \mathcal{A}	
	16256 Jun 14 22:43	0° Ω		asc. node	16259 Jan 07 13:48	26° \mathcal{A} 46'36	
	16256 Jul 09 06:50	0° η			16259 Jan 10 06:42	0° \mathcal{B}	
asc. node	16256 Jul 22 12:09	16° η 13'56			16259 Feb 04 05:03	0° \approx	
	16256 Aug 02 18:24	0° \mathcal{A}			16259 Feb 28 20:30	0° \mathcal{H}	
	16256 Aug 27 13:13	0° \mathcal{M}			16259 Mar 25 08:13	0° Υ	
	16256 Sep 21 22:44	0° \mathcal{A}			16259 Apr 18 17:41	0° \mathcal{B}	
	16256 Oct 18 17:39	0° \mathcal{B}		morning set	16259 Apr 24 06:51	6° \mathcal{B} 50'22	
evening max el	16256 Oct 31 02:56	12° \mathcal{B} 49'34	46°32'47	desc. node	16259 Apr 29 09:49	13° \mathcal{B} 09'31	
desc. node	16256 Nov 11 08:13	23° \mathcal{B} 28'47			16259 May 13 01:05	0° Π	
	16256 Nov 18 23:37	0° \approx		max. Earth dist.	16259 May 30 08:35	21° Π 26'33	1.72528 AU
greatest brilliancy	16256 Dec 09 14:50	12° \approx 40'29	-4.8m				
retrograde	16256 Dec 20 03:29	14° \approx 42'11		superior conj	16259 Jun 02 04:05	24° Π 55'53	-1°10'53
evening set	16257 Jan 07 15:09	8° \approx 16'46		minimum elong	16259 Jun 01 17:29	24° Π 22'59	1°11'16
inferior conj	16257 Jan 10 11:18	6° \approx 31'39	-8°55'24		16259 Jun 06 06:06	0° \mathcal{E}	
minimum elong	16257 Jan 10 13:51	6° \approx 27'42	8°54'43		16259 Jun 30 08:52	0° Ω	
min. Earth dist.	16257 Jan 10 02:56	6° \approx 44'39	0.28453 AU	evening rise	16259 Jul 11 05:40	13° Ω 32'31	
morning rise	16257 Jan 13 12:41	4° \approx 39'05			16259 Jul 24 10:22	0° η	
	16257 Jan 22 23:58	30° \mathcal{R} \mathcal{B}			16259 Aug 17 12:01	0° \mathcal{A}	
direct	16257 Jan 31 16:20	28° \mathcal{B} 29'45		asc. node	16259 Aug 20 01:29	3° \mathcal{A} 11'20	
	16257 Feb 09 16:47	0° \approx			16259 Sep 10 15:21	0° \mathcal{M}	
greatest brilliancy	16257 Feb 10 16:27	0° \approx 19'53	-4.8m		16259 Oct 04 22:32	0° \mathcal{A}	
asc. node	16257 Mar 04 08:15	13° \approx 25'56			16259 Oct 29 13:30	0° \mathcal{B}	
morning max el	16257 Mar 21 18:52	29° \approx 02'20	45°44'21		16259 Nov 23 19:47	0° \approx	
	16257 Mar 22 18:31	0° \mathcal{H}		desc. node	16259 Dec 09 19:36	18° \approx 19'29	
	16257 Apr 20 05:48	0° Υ			16259 Dec 20 08:38	0° \mathcal{H}	
	16257 May 16 12:19	0° \mathcal{B}		evening max el	16260 Jan 11 10:33	22° \mathcal{H} 51'37	46°09'53
	16257 Jun 10 19:44	0° Π			16260 Jan 19 00:38	0° Υ	
desc. node	16257 Jun 24 08:32	16° Π 20'17		greatest brilliancy	16260 Feb 19 16:29	21° Υ 38'18	-4.8m
	16257 Jul 05 13:44	0° \mathcal{E}		retrograde	16260 Feb 29 16:20	23° Υ 28'01	
	16257 Jul 29 22:55	0° Ω		evening set	16260 Mar 16 03:29	18° Υ 51'20	
	16257 Aug 23 02:33	0° η		inferior conj	16260 Mar 22 01:26	15° Υ 17'10	-2°22'52
	16257 Sep 16 03:13	0° \mathcal{A}		minimum elong	16260 Mar 22 06:41	15° Υ 08'54	2°21'24
morning set	16257 Sep 20 17:06	5° \mathcal{A} 43'30		min. Earth dist.	16260 Mar 22 05:38	15° Υ 10'33	0.28468 AU
	16257 Oct 10 02:41	0° \mathcal{M}		morning rise	16260 Mar 28 09:41	11° Υ 28'10	
asc. node	16257 Oct 15 02:53	6° \mathcal{M} 16'09		asc. node	16260 Mar 31 18:11	9° Υ 47'06	
				direct	16260 Apr 12 06:44	7° Υ 07'43	
superior conj	16257 Oct 30 03:25	25° \mathcal{M} 04'06	0°35'51	greatest brilliancy	16260 Apr 23 00:09	9° Υ 13'42	-4.8m
minimum elong	16257 Oct 29 19:16	24° \mathcal{M} 38'36	0°36'00		16260 May 23 00:21	0° \mathcal{B}	
max. Earth dist.	16257 Oct 31 08:12	26° \mathcal{M} 34'09	1.71753 AU	morning max el	16260 May 31 15:22	8° \mathcal{B} 10'14	46°06'05
	16257 Nov 03 02:00	0° \mathcal{A}			16260 Jun 21 14:03	0° Π	
	16257 Nov 27 02:08	0° \mathcal{B}			16260 Jul 18 01:49	0° \mathcal{E}	
evening rise	16257 Dec 07 06:15	12° \mathcal{B} 40'46		desc. node	16260 Jul 21 19:29	4° \mathcal{E} 22'02	
	16257 Dec 21 04:41	0° \approx			16260 Aug 12 08:31	0° Ω	
	16258 Jan 14 11:47	0° \mathcal{H}			16260 Sep 06 00:37	0° η	
desc. node	16258 Feb 03 19:05	24° \mathcal{H} 49'28			16260 Sep 30 09:16	0° \mathcal{A}	
	16258 Feb 08 01:17	0° Υ			16260 Oct 24 14:14	0° \mathcal{M}	
	16258 Mar 04 22:29	0° \mathcal{B}		asc. node	16260 Nov 11 15:59	22° \mathcal{M} 28'01	
	16258 Mar 30 04:54	0° Π			16260 Nov 17 17:17	0° \mathcal{A}	
	16258 Apr 25 01:26	0° \mathcal{E}		morning set	16260 Dec 02 12:04	18° \mathcal{A} 24'21	
	16258 May 22 03:47	0° Ω			16260 Dec 11 19:29	0° \mathcal{B}	
asc. node	16258 May 27 13:31	5° Ω 40'49			16261 Jan 04 21:59	0° \approx	
evening max el	16258 Jun 05 18:51	15° Ω 01'22	46°17'42				
	16258 Jun 22 03:34	0° η		superior conj	16261 Jan 09 04:10	5° \approx 17'30	1°26'49
greatest brilliancy	16258 Jul 15 22:56	14° η 50'07	-4.8m	minimum elong	16261 Jan 09 05:49	5° \approx 22'37	1°27'26
retrograde	16258 Jul 25 09:41	16° η 29'59		max. Earth dist.	16261 Jan 11 13:35	8° \approx 15'47	1.72562 AU
evening set	16258 Aug 11 04:28	11° η 04'56			16261 Jan 29 02:19	0° \mathcal{H}	
inferior conj	16258 Aug 15 02:10	8° η 42'46	7°18'45	evening rise	16261 Feb 15 15:59	21° \mathcal{H} 42'09	
minimum elong	16258 Aug 15 12:49	8° η 26'17	7°16'23		16261 Feb 22 09:42	0° Υ	
min. Earth dist.	16258 Aug 15 20:06	8° η 15'02	0.27326 AU	desc. node	16261 Mar 03 08:34	11° Υ 00'26	
morning rise	16258 Aug 19 20:58	5° η 49'30			16261 Mar 18 20:24	0° \mathcal{B}	
direct	16258 Sep 04 23:30	0° η 46'54			16261 Apr 12 09:59	0° Π	

	16261 May 07 02:25	0°☿			16263 Oct 14 08:55	0°♊
	16261 May 31 23:25	0°♋			16263 Nov 08 06:32	0°♌
asc. node	16261 Jun 24 01:13	27°♌25'31			16263 Dec 02 20:56	0°♍
	16261 Jun 26 05:50	0°♎	asc. node		16263 Dec 10 04:15	8°♍57'19
	16261 Jul 22 08:27	0°♏			16263 Dec 27 06:58	0°♎
evening max el	16261 Aug 17 15:07	28°♏03'20 46°38'13			16264 Jan 20 14:18	0°♏
	16261 Aug 19 14:07	0°♐	morning set		16264 Feb 11 12:54	27°♏07'42
greatest brilliancy	16261 Sep 26 05:16	28°♐22'42 -4.9m			16264 Feb 13 20:40	0°♑
	16261 Oct 01 18:49	0°♒			16264 Mar 09 03:25	0°♒
retrograde	16261 Oct 06 21:10	0°♒30'30				
	16261 Oct 11 21:00	30°♒♌	superior conj		16264 Mar 19 16:54	13°♒01'59 0°26'56
desc. node	16261 Oct 13 23:36	29°♌28'50	minimum elong		16264 Mar 19 22:46	13°♒20'02 0°26'34
evening set	16261 Oct 21 12:10	26°♌18'57	max. Earth dist.		16264 Mar 20 12:21	14°♒01'57 1.73096 AU
min. Earth dist.	16261 Oct 27 05:15	23°♌00'03 0.27143 AU	desc. node		16264 Mar 30 22:19	26°♒52'48
inferior conj	16261 Oct 27 17:24	22°♌41'36 -3°29'44			16264 Apr 02 11:02	0°♓
minimum elong	16261 Oct 27 09:41	22°♌53'20 3°26'53	evening rise		16264 Apr 26 18:54	29°♓59'49
morning rise	16261 Nov 02 07:31	19°♌24'52			16264 Apr 26 18:58	0°♐
direct	16261 Nov 17 11:54	14°♌56'49			16264 May 21 02:31	0°☿
greatest brilliancy	16261 Nov 27 04:16	16°♌40'06 -4.8m			16264 Jun 14 09:51	0°♋
	16261 Dec 19 07:05	0°♌			16264 Jul 08 18:20	0°♎
morning max el	16262 Jan 05 23:10	15°♌48'43 46°10'16	asc. node		16264 Jul 21 13:56	15°♎43'16
	16262 Jan 19 23:02	0°♍			16264 Aug 02 06:29	0°♏
asc. node	16262 Feb 04 00:14	16°♍14'42			16264 Aug 27 02:17	0°♐
	16262 Feb 16 06:28	0°♎			16264 Sep 21 13:31	0°♑
	16262 Mar 14 03:05	0°♒			16264 Oct 18 12:28	0°♓
	16262 Apr 08 07:03	0°♓	evening max el		16264 Oct 28 18:02	10°♓32'17 46°33'19
	16262 May 03 01:41	0°♔	desc. node		16264 Nov 10 10:14	22°♓29'40
desc. node	16262 May 26 22:32	29°♔12'27			16264 Nov 19 12:26	0°♏
	16262 May 27 14:00	0°♐	greatest brilliancy		16264 Dec 07 05:30	10°♏24'10 -4.8m
	16262 Jun 20 21:14	0°☿	retrograde		16264 Dec 17 18:19	12°♏25'50
morning set	16262 Jul 06 01:55	18°☿52'11	evening set		16265 Jan 05 06:16	6°♏00'38
	16262 Jul 15 00:20	0°♋	min. Earth dist.		16265 Jan 07 16:44	4°♏30'27 0.28423 AU
	16262 Aug 08 00:36	0°♎	inferior conj		16265 Jan 08 02:03	4°♏15'58 -8°57'45
max. Earth dist.	16262 Aug 13 03:22	6°♎24'13 1.71663 AU	minimum elong		16265 Jan 08 03:42	4°♏13'23 8°57'06
			morning rise		16265 Jan 11 01:17	2°♏26'29
superior conj	16262 Aug 14 16:46	8°♎21'19 -1°10'03			16265 Jan 15 09:26	30°♎♓
minimum elong	16262 Aug 15 04:07	8°♎56'50 1°10'02	direct		16265 Jan 29 07:05	26°♓14'55
	16262 Aug 31 23:31	0°♏	greatest brilliancy		16265 Feb 08 05:33	28°♓03'21 -4.8m
asc. node	16262 Sep 16 15:12	19°♏36'28			16265 Feb 12 21:42	0°♎
evening rise	16262 Sep 23 16:55	28°♏27'42	asc. node		16265 Mar 03 10:14	12°♎22'21
	16262 Sep 24 22:25	0°♐	morning max el		16265 Mar 19 08:49	26°♎45'26 45°44'22
	16262 Oct 18 22:29	0°♑			16265 Mar 22 16:00	0°♒
	16262 Nov 12 01:29	0°♓			16265 Apr 19 21:10	0°♓
	16262 Dec 06 10:13	0°♔			16265 May 16 01:27	0°♔
	16262 Dec 31 04:46	0°♕			16265 Jun 10 07:47	0°♐
desc. node	16263 Jan 06 07:48	7°♕18'51	desc. node		16265 Jun 23 10:20	15°♐50'21
	16263 Jan 25 14:30	0°♒			16265 Jul 05 01:10	0°☿
	16263 Feb 21 00:28	0°♓			16265 Jul 29 10:00	0°♋
	16263 Mar 21 12:52	0°♐			16265 Aug 22 13:25	0°♎
evening max el	16263 Mar 23 08:34	1°♐46'40 46°01'06			16265 Sep 15 13:59	0°♏
asc. node	16263 Apr 29 04:37	29°♐45'59	morning set		16265 Sep 18 06:03	3°♏20'20
	16263 Apr 29 18:06	0°☿			16265 Oct 09 13:24	0°♐
greatest brilliancy	16263 May 01 14:07	0°☿41'54 -4.8m	asc. node		16265 Oct 14 04:48	5°♐48'41
retrograde	16263 May 11 15:04	2°☿33'29				
	16263 May 22 20:50	30°♒♐	superior conj		16265 Oct 27 16:59	22°♐43'02 0°32'26
evening set	16263 May 27 19:40	27°♐25'52	minimum elong		16265 Oct 27 09:28	22°♐19'30 0°32'35
inferior conj	16263 Jun 01 15:55	24°♐27'59 7°14'14	max. Earth dist.		16265 Oct 28 19:17	24°♐05'17 1.71734 AU
minimum elong	16263 Jun 01 05:39	24°♐44'07 7°11'38			16265 Nov 02 12:41	0°♑
min. Earth dist.	16263 Jun 01 14:02	24°♐30'57 0.28214 AU			16265 Nov 26 12:49	0°♓
morning rise	16263 Jun 05 15:34	22°♐00'19	evening rise		16265 Dec 04 21:08	10°♓24'21
direct	16263 Jun 22 19:32	16°♐18'20			16265 Dec 20 15:26	0°♔
greatest brilliancy	16263 Jul 02 20:34	18°♐12'15 -4.8m			16266 Jan 13 22:41	0°♕
	16263 Jul 22 11:22	0°☿	desc. node		16266 Feb 02 20:51	24°♕20'50
morning max el	16263 Aug 12 02:07	18°☿43'37 46°46'44			16266 Feb 07 12:32	0°♒
desc. node	16263 Aug 19 05:38	26°☿02'29			16266 Mar 04 10:16	0°♓
	16263 Aug 22 23:41	0°♋			16266 Mar 29 17:38	0°♐
	16263 Sep 18 21:02	0°♎			16266 Apr 24 15:54	0°☿

	16266 May 21 22:12	0°♈			16268 Nov 17 03:50	0°♏	
asc. node	16266 May 26 15:25	4°♈54'47		morning set	16268 Nov 30 02:49	16°♏08'11	
evening max el	16266 Jun 03 07:23	12°♈38'30	46°16'57		16268 Dec 11 05:53	0°♏	
	16266 Jun 22 14:19	0°♏			16269 Jan 04 08:20	0°♏	
greatest brilliancy	16266 Jul 13 13:12	12°♏29'44	-4.8m				
retrograde	16266 Jul 22 22:21	14°♏08'43		superior conj	16269 Jan 06 20:22	3°♏06'33	1°27'02
evening set	16266 Aug 08 21:19	8°♏38'17		minimum elong	16269 Jan 06 21:12	3°♏09'10	1°27'39
inferior conj	16266 Aug 12 15:40	6°♏21'06	7°32'16	max. Earth dist.	16269 Jan 09 05:29	6°♏04'00	1.72539 AU
minimum elong	16266 Aug 13 02:01	6°♏05'05	7°30'03		16269 Jan 28 12:42	0°♏	
min. Earth dist.	16266 Aug 13 10:02	5°♏52'41	0.27363 AU	evening rise	16269 Feb 13 07:47	19°♏30'51	
morning rise	16266 Aug 17 06:27	3°♏33'20			16269 Feb 21 20:10	0°♏	
	16266 Aug 24 16:17	30°♏♈		desc. node	16269 Mar 02 10:27	10°♏33'53	
direct	16266 Sep 02 12:37	28°♈24'18			16269 Mar 18 07:03	0°♏	
	16266 Sep 11 17:21	0°♏			16269 Apr 11 20:57	0°♏	
greatest brilliancy	16266 Sep 12 20:12	0°♏23'37	-4.9m		16269 May 06 13:52	0°♏	
desc. node	16266 Sep 15 15:30	1°♏32'45			16269 May 31 11:40	0°♈	
	16266 Oct 21 23:07	0°♏		asc. node	16269 Jun 23 03:01	26°♈51'26	
morning max el	16266 Oct 22 21:01	0°♏54'27	46°50'42		16269 Jun 25 19:24	0°♏	
	16266 Nov 19 04:43	0°♏			16269 Jul 22 00:40	0°♏	
	16266 Dec 15 10:05	0°♏		evening max el	16269 Aug 15 05:36	25°♏43'49	46°37'58
asc. node	16267 Jan 06 15:34	26°♏14'57			16269 Aug 19 13:49	0°♏	
	16267 Jan 09 18:59	0°♏		greatest brilliancy	16269 Sep 23 18:43	25°♏59'56	-4.9m
	16267 Feb 03 16:33	0°♏		retrograde	16269 Oct 04 11:13	28°♏08'02	
	16267 Feb 28 07:32	0°♏		desc. node	16269 Oct 13 01:36	26°♏37'33	
	16267 Mar 24 18:57	0°♏		evening set	16269 Oct 19 00:07	23°♏58'18	
	16267 Apr 18 04:16	0°♏		inferior conj	16269 Oct 25 06:21	20°♏19'36	-3°07'27
morning set	16267 Apr 21 21:47	4°♏35'51		minimum elong	16269 Oct 24 23:21	20°♏30'14	3°04'48
desc. node	16267 Apr 28 11:36	12°♏42'32		min. Earth dist.	16269 Oct 24 18:53	20°♏37'00	0.27107 AU
	16267 May 12 11:36	0°♏		morning rise	16269 Oct 30 22:59	16°♏59'53	
max. Earth dist.	16267 May 27 23:48	19°♏12'16	1.72564 AU	direct	16269 Nov 15 01:10	12°♏35'11	
				greatest brilliancy	16269 Nov 24 17:05	14°♏18'40	-4.8m
superior conj	16267 May 30 17:54	22°♏37'12	-1°08'40		16269 Dec 19 16:37	0°♏	
minimum elong	16267 May 30 07:05	22°♏03'41	1°09'01	morning max el	16270 Jan 03 13:43	13°♏32'47	46°11'42
	16267 Jun 05 16:38	0°♏			16270 Jan 19 17:00	0°♏	
	16267 Jun 29 19:29	0°♏		asc. node	16270 Feb 03 02:15	15°♏37'41	
evening rise	16267 Jul 08 18:20	11°♏09'16			16270 Feb 15 20:31	0°♏	
	16267 Jul 23 21:05	0°♏			16270 Mar 13 15:27	0°♏	
	16267 Aug 16 22:53	0°♏			16270 Apr 07 18:32	0°♏	
asc. node	16267 Aug 19 03:20	2°♏43'15			16270 May 02 12:41	0°♏	
	16267 Sep 10 02:26	0°♏		desc. node	16270 May 26 00:18	28°♏44'53	
	16267 Oct 04 10:00	0°♏			16270 May 27 00:44	0°♏	
	16267 Oct 29 01:40	0°♏			16270 Jun 20 07:50	0°♏	
	16267 Nov 23 09:18	0°♏		morning set	16270 Jul 03 14:12	16°♏28'20	
desc. node	16267 Dec 08 21:20	17°♏42'26			16270 Jul 14 10:52	0°♏	
	16267 Dec 20 01:06	0°♏			16270 Aug 07 11:07	0°♏	
evening max el	16268 Jan 09 00:47	20°♏36'28	46°10'32	max. Earth dist.	16270 Aug 10 14:53	3°♏57'04	1.71679 AU
	16268 Jan 19 03:00	0°♏					
greatest brilliancy	16268 Feb 17 07:38	19°♏25'48	-4.8m	superior conj	16270 Aug 12 04:46	5°♏55'39	-1°12'20
retrograde	16268 Feb 27 07:45	21°♏16'04		minimum elong	16270 Aug 12 15:49	6°♏30'15	1°12'22
evening set	16268 Mar 13 20:48	16°♏36'08			16270 Aug 31 10:03	0°♏	
inferior conj	16268 Mar 19 16:54	13°♏04'52	-2°43'17	asc. node	16270 Sep 15 17:05	19°♏09'13	
minimum elong	16268 Mar 19 22:51	12°♏55'33	2°41'37	evening rise	16270 Sep 21 05:31	26°♏03'46	
min. Earth dist.	16268 Mar 19 21:29	12°♏57'41	0.28482 AU		16270 Sep 24 09:01	0°♏	
morning rise	16268 Mar 26 00:42	9°♏16'50			16270 Oct 18 09:11	0°♏	
asc. node	16268 Mar 30 20:11	6°♏58'11			16270 Nov 11 12:21	0°♏	
direct	16268 Apr 09 22:02	4°♏55'15			16270 Dec 05 21:23	0°♏	
greatest brilliancy	16268 Apr 20 16:30	7°♏02'23	-4.8m		16270 Dec 30 16:30	0°♏	
	16268 May 23 01:31	0°♏		desc. node	16271 Jan 05 09:39	6°♏48'48	
morning max el	16268 May 29 06:51	5°♏57'13	46°04'48		16271 Jan 25 03:21	0°♏	
	16268 Jun 21 06:17	0°♏			16271 Feb 20 15:42	0°♏	
	16268 Jul 17 15:18	0°♏		evening max el	16271 Mar 21 00:21	29°♏35'06	46°00'47
desc. node	16268 Jul 20 21:19	3°♏48'32			16271 Mar 21 10:38	0°♏	
	16268 Aug 11 20:45	0°♏		asc. node	16271 Apr 28 06:29	28°♏06'21	
	16268 Sep 05 12:10	0°♏		greatest brilliancy	16271 Apr 29 04:20	28°♏26'25	-4.8m
	16268 Sep 29 20:22	0°♏			16271 May 05 07:16	0°♏	
	16268 Oct 24 01:00	0°♏		retrograde	16271 May 09 05:36	0°♏17'54	
asc. node	16268 Nov 10 17:46	22°♏00'39			16271 May 13 01:58	30°♏♏	

evening set	16271 May 25 07:04	25°II15'34		minimum elong	16273 Oct 24 23:30	20°III00'04	0°29'06
inferior conj	16271 May 30 06:50	22°II12'14	7°00'40	max. Earth dist.	16273 Oct 26 04:27	21°III30'37	1.71714 AU
minimum elong	16271 May 29 20:23	22°II28'40	6°57'55		16273 Nov 01 23:17	0°♂	
min. Earth dist.	16271 May 30 04:26	22°II16'00	0.28225 AU		16273 Nov 25 23:25	0°♂	
morning rise	16271 Jun 03 09:41	19°II39'35		evening rise	16273 Dec 02 12:04	8°♂08'13	
direct	16271 Jun 20 10:54	14°II02'45			16273 Dec 20 02:07	0°≈	
greatest brilliancy	16271 Jun 30 11:25	15°II56'00	-4.8m		16274 Jan 13 09:33	0°♂	
	16271 Jul 22 21:46	0°♂		desc. node	16274 Feb 01 22:46	23°♂52'53	
morning max el	16271 Aug 09 16:06	16°♂24'16	46°45'35		16274 Feb 06 23:43	0°♀	
desc. node	16271 Aug 18 07:40	25°♂17'26			16274 Mar 03 22:01	0°♂	
	16271 Aug 22 17:56	0°♂			16274 Mar 29 06:19	0°II	
	16271 Sep 18 11:29	0°♂			16274 Apr 24 06:26	0°♂	
	16271 Oct 13 21:42	0°♂			16274 May 21 17:06	0°♂	
	16271 Nov 07 18:24	0°III		asc. node	16274 May 25 17:13	4°♂07'55	
	16271 Dec 02 08:13	0°♂		evening max el	16274 May 31 19:39	10°♂15'08	46°16'00
asc. node	16271 Dec 09 06:01	8°♂28'36			16274 Jun 23 05:00	0°♂	
	16271 Dec 26 17:49	0°♂		greatest brilliancy	16274 Jul 11 02:43	10°♂07'57	-4.8m
	16272 Jan 20 00:52	0°≈		retrograde	16274 Jul 20 11:12	11°♂46'48	
morning set	16272 Feb 09 05:51	24°≈59'36		evening set	16274 Aug 06 13:55	6°♂10'36	
	16272 Feb 13 07:03	0°♂		inferior conj	16274 Aug 10 04:59	3°♂58'21	7°45'00
	16272 Mar 08 13:45	0°♀		minimum elong	16274 Aug 10 14:57	3°♂42'56	7°42'56
				min. Earth dist.	16274 Aug 10 23:35	3°♂29'35	0.27408 AU
superior conj	16272 Mar 17 09:03	10°♀51'50	0°30'10	morning rise	16274 Aug 14 15:43	1°♂16'29	
minimum elong	16272 Mar 17 15:31	11°♀11'47	0°29'48		16274 Aug 16 22:30	30°♂♂	
max. Earth dist.	16272 Mar 18 06:53	11°♀59'13	1.73094 AU	direct	16274 Aug 31 01:49	26°♂00'28	
desc. node	16272 Mar 30 00:06	26°♀26'21		greatest brilliancy	16274 Sep 10 10:21	28°♂00'44	-4.9m
	16272 Apr 01 21:24	0°♂		desc. node	16274 Sep 14 17:25	29°♂52'14	
evening rise	16272 Apr 24 10:25	27°♂47'18			16274 Sep 14 23:41	0°♂	
	16272 Apr 26 05:28	0°II		morning max el	16274 Oct 20 10:56	28°♂32'35	46°51'37
	16272 May 20 13:13	0°♂			16274 Oct 21 21:48	0°♂	
	16272 Jun 13 20:49	0°♂			16274 Nov 18 20:52	0°III	
	16272 Jul 08 05:42	0°♂			16274 Dec 14 23:42	0°♂	
asc. node	16272 Jul 20 15:49	15°♂13'22		asc. node	16275 Jan 05 17:33	25°♂43'45	
	16272 Aug 01 18:28	0°♂			16275 Jan 09 07:17	0°♂	
	16272 Aug 26 15:14	0°III			16275 Feb 03 04:05	0°≈	
	16272 Sep 21 04:17	0°♂			16275 Feb 27 18:38	0°♂	
	16272 Oct 18 07:33	0°♂			16275 Mar 24 05:46	0°♀	
evening max el	16272 Oct 26 08:12	8°♂13'13	46°33'53		16275 Apr 17 14:56	0°♂	
desc. node	16272 Nov 09 12:02	21°♂29'27		morning set	16275 Apr 19 13:17	2°♂22'51	
	16272 Nov 20 05:12	0°≈		desc. node	16275 Apr 27 13:23	12°♂15'12	
greatest brilliancy	16272 Dec 04 20:39	8°≈09'05	-4.8m		16275 May 11 22:12	0°II	
retrograde	16272 Dec 15 08:47	10°≈10'28		max. Earth dist.	16275 May 25 18:07	17°II07'23	1.72598 AU
evening set	16273 Jan 02 21:04	3°≈46'06					
inferior conj	16273 Jan 05 16:54	2°≈01'20	-8°59'18	superior conj	16275 May 28 08:09	20°II19'40	-1°06'21
minimum elong	16273 Jan 05 17:40	2°≈00'08	8°58'40	minimum elong	16275 May 27 21:12	19°II45'43	1°06'39
min. Earth dist.	16273 Jan 05 06:57	2°≈16'49	0.28390 AU		16275 Jun 05 03:15	0°♂	
morning rise	16273 Jan 08 14:24	0°≈14'21			16275 Jun 29 06:12	0°♂	
	16273 Jan 08 23:58	30°♂♂		evening rise	16275 Jul 06 07:24	8°♂46'55	
direct	16273 Jan 26 21:26	24°♂00'59			16275 Jul 23 07:59	0°♂	
greatest brilliancy	16273 Feb 05 19:17	25°♂48'27	-4.8m		16275 Aug 16 09:59	0°♂	
	16273 Feb 14 17:36	0°≈		asc. node	16275 Aug 18 05:13	2°♂14'28	
asc. node	16273 Mar 02 12:11	11°≈21'15			16275 Sep 09 13:50	0°III	
morning max el	16273 Mar 16 22:09	24°≈27'50	45°44'33		16275 Oct 03 21:50	0°♂	
	16273 Mar 22 12:22	0°♂			16275 Oct 28 14:14	0°♂	
	16273 Apr 19 12:00	0°♀			16275 Nov 22 23:15	0°≈	
	16273 May 15 14:15	0°♂		desc. node	16275 Dec 07 23:16	17°≈04'50	
	16273 Jun 09 19:37	0°II			16275 Dec 19 18:12	0°♂	
desc. node	16273 Jun 22 12:10	15°II20'56		evening max el	16276 Jan 06 15:47	18°♂22'35	46°11'25
	16273 Jul 04 12:30	0°♂			16276 Jan 19 07:19	0°♀	
	16273 Jul 28 21:02	0°♂		greatest brilliancy	16276 Feb 14 22:31	17°♀12'45	-4.8m
	16273 Aug 22 00:16	0°♂		retrograde	16276 Feb 24 23:46	19°♀03'50	
	16273 Sep 15 00:43	0°♂		evening set	16276 Mar 11 14:25	14°♀20'35	
morning set	16273 Sep 15 18:37	0°♂55'57		inferior conj	16276 Mar 17 08:29	10°♀52'14	-3°03'29
	16273 Oct 09 00:04	0°III		minimum elong	16276 Mar 17 15:06	10°♀41'53	3°01'37
asc. node	16273 Oct 13 06:31	5°III20'43		min. Earth dist.	16276 Mar 17 13:05	10°♀45'02	0.28493 AU
				morning rise	16276 Mar 23 15:38	7°♀05'32	
superior conj	16273 Oct 25 06:21	20°III21'29	0°28'56	asc. node	16276 Mar 29 22:04	4°♀13'50	

direct	16276 Apr 07 13:53	2° Υ 42'36		16278 Dec 05 09:01	0° \approx	
greatest brilliancy	16276 Apr 18 08:22	4° Υ 50'13	-4.8m	16278 Dec 30 04:48	0° H	
	16276 May 23 01:37	0° B		16279 Jan 04 11:33	6° H 17'19	
morning max el	16276 May 26 23:02	3° B 45'35	46°03'35	16279 Jan 24 16:52	0° Υ	
	16276 Jun 20 22:23	0° II		16279 Feb 20 07:44	0° B	
	16276 Jul 17 04:50	0° G		16279 Mar 18 15:14	27° B 20'05	46°00'39
desc. node	16276 Jul 19 23:20	3° G 15'14		16279 Mar 21 09:53	0° II	
	16276 Aug 11 09:08	0° Ω		16279 Apr 26 19:15	26° II 10'45	-4.8m
	16276 Sep 04 23:57	0° M		16279 Apr 27 08:22	26° II 22'04	
	16276 Sep 29 07:46	0° L		16279 May 06 19:52	28° II 01'40	
	16276 Oct 23 12:08	0° M		16279 May 22 18:44	23° II 04'19	
asc. node	16276 Nov 09 19:35	21° M 32'02		16279 May 27 21:54	19° II 55'55	6°46'26
	16276 Nov 16 14:47	0° J		16279 May 27 11:21	20° II 12'32	6°43'36
morning set	16276 Nov 27 17:06	13° J 49'17		16279 May 27 19:22	19° II 59'54	0.28233 AU
	16276 Dec 10 16:41	0° Z		16279 Jun 01 03:54	17° II 18'18	
	16277 Jan 03 19:04	0° \approx		16279 Jun 18 01:54	11° II 46'28	
				16279 Jun 28 02:58	13° II 39'43	-4.8m
superior conj	16277 Jan 04 12:09	0° \approx 53'06	1°27'06	16279 Jul 23 05:45	0° G	
minimum elong	16277 Jan 04 12:09	0° \approx 53'08	1°27'44	16279 Aug 07 05:30	14° G 02'28	46°44'32
max. Earth dist.	16277 Jan 06 22:41	3° \approx 55'03	1.72508 AU	16279 Aug 17 09:28	24° G 31'27	
	16277 Jan 27 23:25	0° H		16279 Aug 22 12:05	0° Ω	
evening rise	16277 Feb 10 23:25	17° H 17'53		16279 Sep 18 02:03	0° M	
	16277 Feb 21 06:58	0° Υ		16279 Oct 13 10:41	0° L	
desc. node	16277 Mar 01 12:16	10° Υ 06'01		16279 Nov 07 06:31	0° M	
	16277 Mar 17 18:03	0° B		16279 Dec 01 19:47	0° J	
	16277 Apr 11 08:17	0° II		16279 Dec 08 07:58	7° J 59'28	
	16277 May 06 01:42	0° G		16279 Dec 26 05:01	0° Z	
	16277 May 31 00:16	0° Ω		16280 Jan 19 11:49	0° \approx	
asc. node	16277 Jun 22 05:00	26° Ω 16'59		16280 Feb 06 22:28	22° \approx 49'03	
	16277 Jun 25 09:22	0° M		16280 Feb 12 17:51	0° H	
	16277 Jul 21 17:29	0° L		16280 Mar 08 00:30	0° Υ	
evening max el	16277 Aug 12 20:20	23° L 24'07	46°37'27			
	16277 Aug 19 15:05	0° M		superior conj	16280 Mar 15 00:56	8° Υ 39'42 0°33'23
greatest brilliancy	16277 Sep 21 08:21	23° M 36'10	-4.9m	minimum elong	16280 Mar 15 07:59	9° Υ 01'25 0°33'00
retrograde	16277 Oct 02 00:58	25° M 43'46		max. Earth dist.	16280 Mar 15 23:13	9° Υ 48'24 1.73089 AU
desc. node	16277 Oct 12 03:24	23° M 39'28		desc. node	16280 Mar 29 01:49	25° Υ 58'23
evening set	16277 Oct 16 12:13	21° M 35'50			16280 Apr 01 08:11	0° B
inferior conj	16277 Oct 22 19:10	17° M 55'52	-2°44'34	evening rise	16280 Apr 22 01:46	25° B 33'12
minimum elong	16277 Oct 22 12:57	18° M 05'19	2°42'10		16280 Apr 25 16:21	0° II
min. Earth dist.	16277 Oct 22 08:32	18° M 12'02	0.27078 AU		16280 May 20 00:17	0° G
morning rise	16277 Oct 28 14:09	14° M 33'07			16280 Jun 13 08:09	0° Ω
direct	16277 Nov 12 14:31	10° M 11'48			16280 Jul 07 17:26	0° M
greatest brilliancy	16277 Nov 22 05:50	11° M 55'07	-4.8m	asc. node	16280 Jul 19 17:40	14° M 42'22
	16277 Dec 20 00:17	0° J			16280 Aug 01 06:49	0° L
morning max el	16278 Jan 01 03:35	11° J 13'21	46°13'07		16280 Aug 26 04:34	0° M
	16278 Jan 19 11:07	0° Z			16280 Sep 20 19:29	0° J
asc. node	16278 Feb 02 04:12	14° Z 59'14			16280 Oct 18 03:25	0° Z
	16278 Feb 15 10:55	0° \approx		evening max el	16280 Oct 23 21:33	5° Z 51'28 46°34'27
	16278 Mar 13 04:11	0° H		desc. node	16280 Nov 08 13:58	20° Z 27'35
	16278 Apr 07 06:22	0° Υ			16280 Nov 21 04:16	0° \approx
	16278 May 02 00:01	0° B		greatest brilliancy	16280 Dec 02 11:36	5° \approx 53'07 -4.8m
desc. node	16278 May 25 02:07	28° B 16'21		retrograde	16280 Dec 12 23:21	7° \approx 54'45
	16278 May 26 11:49	0° II		evening set	16280 Dec 31 11:21	1° \approx 31'44
	16278 Jun 19 18:47	0° G			16281 Jan 02 22:54	30° R 3
morning set	16278 Jul 01 02:52	14° G 04'40		inferior conj	16281 Jan 03 07:49	29° Z 46'08 -8°59'48
	16278 Jul 13 21:44	0° Ω		minimum elong	16281 Jan 03 07:42	29° Z 46'19 8°59'11
	16278 Aug 06 21:56	0° M		min. Earth dist.	16281 Jan 02 21:19	0° \approx 02'28 0.28362 AU
max. Earth dist.	16278 Aug 08 00:49	1° M 24'04	1.71693 AU	morning rise	16281 Jan 06 04:08	28° Z 00'57
				direct	16281 Jan 24 11:34	21° Z 46'12
superior conj	16278 Aug 09 17:19	3° M 30'47	-1°14'27	greatest brilliancy	16281 Feb 03 09:36	23° Z 33'24 -4.8m
minimum elong	16278 Aug 10 03:58	4° M 04'07	1°14'31		16281 Feb 15 23:56	0° \approx
	16278 Aug 30 20:54	0° L		asc. node	16281 Mar 01 14:02	10° \approx 20'28
asc. node	16278 Sep 14 18:49	18° L 40'33		morning max el	16281 Mar 14 11:54	22° \approx 10'03 45°44'44
evening rise	16278 Sep 18 18:24	23° L 39'43			16281 Mar 22 08:29	0° H
	16278 Sep 23 19:56	0° M			16281 Apr 19 03:03	0° Υ
	16278 Oct 17 20:15	0° J			16281 May 15 03:20	0° B
	16278 Nov 10 23:37	0° Z			16281 Jun 09 07:42	0° II

desc. node	16281 Jun 21 14:08	14° Π 51'11		evening max el	16284 Jan 04 07:36	16° X 10'59	46°12'19
	16281 Jul 04 00:02	0° G			16284 Jan 19 13:30	0° Υ	
	16281 Jul 28 08:15	0° Ω		greatest brilliancy	16284 Feb 12 13:19	15° Υ 00'08	-4.8m
	16281 Aug 21 11:20	0° M		retrograde	16284 Feb 22 15:48	16° Υ 51'51	
morning set	16281 Sep 13 07:15	28° M 31'07		evening set	16284 Mar 09 08:11	12° Υ 05'25	
	16281 Sep 14 11:40	0° L		inferior conj	16284 Mar 15 00:03	8° Υ 39'57	-3°23'17
	16281 Oct 08 10:55	0° M		minimum elong	16284 Mar 15 07:17	8° Υ 28'38	3°21'14
asc. node	16281 Oct 12 08:21	4° M 52'30		min. Earth dist.	16284 Mar 15 04:24	8° Υ 33'08	0.28505 AU
				morning rise	16284 Mar 21 06:22	4° Υ 54'45	
superior conj	16281 Oct 22 19:52	17° M 59'48	0°25'24	asc. node	16284 Mar 28 23:58	1° Υ 34'33	
minimum elong	16281 Oct 22 13:45	17° M 40'39	0°25'35	direct	16284 Apr 05 06:05	0° Υ 30'31	
max. Earth dist.	16281 Oct 23 13:19	18° M 54'26	1.71694 AU	greatest brilliancy	16284 Apr 15 23:34	2° Υ 37'36	-4.8m
	16281 Nov 01 10:04	0° X			16284 May 23 00:34	0° X	
	16281 Nov 25 10:11	0° Z		morning max el	16284 May 24 15:07	1° X 33'54	46°02'10
evening rise	16281 Nov 30 03:15	5° Z 52'27			16284 Jun 20 14:12	0° Π	
	16281 Dec 19 12:57	0° \approx			16284 Jul 16 18:16	0° G	
	16282 Jan 12 20:36	0° X		desc. node	16284 Jul 19 01:09	2° G 41'25	
desc. node	16282 Feb 01 00:34	23° X 24'00			16284 Aug 10 21:27	0° Ω	
	16282 Feb 06 11:09	0° Υ			16284 Sep 04 11:37	0° M	
	16282 Mar 03 10:02	0° X			16284 Sep 28 19:02	0° L	
	16282 Mar 28 19:23	0° Π			16284 Oct 22 23:06	0° M	
	16282 Apr 23 21:28	0° G		asc. node	16284 Nov 08 21:28	21° M 04'11	
	16282 May 21 12:51	0° Ω			16284 Nov 16 01:33	0° X	
asc. node	16282 May 24 19:15	3° Ω 20'10		morning set	16284 Nov 25 07:21	11° X 30'48	
evening max el	16282 May 29 08:40	7° Ω 53'10	46°15'17		16284 Dec 10 03:20	0° Z	
	16282 Jun 24 01:08	0° M					
greatest brilliancy	16282 Jul 08 15:39	7° M 45'16	-4.8m	superior conj	16285 Jan 02 04:00	28° Z 40'18	1°27'02
retrograde	16282 Jul 18 00:45	9° M 24'41		minimum elong	16285 Jan 02 03:11	28° Z 37'47	1°27'41
evening set	16282 Aug 04 06:32	3° M 42'42			16285 Jan 03 05:38	0° \approx	
inferior conj	16282 Aug 07 18:20	1° M 35'17	7°56'48	max. Earth dist.	16285 Jan 04 16:12	1° \approx 47'27	1.72476 AU
minimum elong	16282 Aug 08 03:53	1° M 20'32	7°54'55		16285 Jan 27 09:58	0° X	
min. Earth dist.	16282 Aug 08 12:43	1° M 06'54	0.27451 AU	evening rise	16285 Feb 08 15:10	15° X 05'47	
	16282 Aug 10 08:22	30° R Ω			16285 Feb 20 17:35	0° Υ	
morning rise	16282 Aug 12 00:59	28° Ω 59'30		desc. node	16285 Feb 28 14:00	9° Υ 38'36	
direct	16282 Aug 28 15:27	23° Ω 36'28			16285 Mar 17 04:52	0° X	
greatest brilliancy	16282 Sep 07 23:52	25° Ω 37'03	-4.9m		16285 Apr 10 19:26	0° Π	
desc. node	16282 Sep 13 19:19	28° Ω 15'13			16285 May 05 13:24	0° G	
	16282 Sep 16 21:09	0° M			16285 May 30 12:48	0° Ω	
morning max el	16282 Oct 18 01:54	26° M 13'11	46°52'27	asc. node	16285 Jun 21 06:50	25° Ω 42'08	
	16282 Oct 21 19:39	0° L			16285 Jun 24 23:23	0° M	
	16282 Nov 18 12:47	0° M			16285 Jul 21 10:33	0° L	
	16282 Dec 14 13:14	0° X		evening max el	16285 Aug 10 10:52	21° L 04'06	46°36'58
asc. node	16283 Jan 04 19:26	25° X 12'17			16285 Aug 19 17:40	0° M	
	16283 Jan 08 19:32	0° Z		greatest brilliancy	16285 Sep 18 22:42	21° M 13'39	-4.9m
	16283 Feb 02 15:37	0° \approx		retrograde	16285 Sep 29 14:15	23° M 19'47	
	16283 Feb 27 05:43	0° X		desc. node	16285 Oct 11 05:23	20° M 36'43	
	16283 Mar 23 16:37	0° Υ		evening set	16285 Oct 14 00:35	19° M 13'37	
morning set	16283 Apr 17 04:44	0° X 09'30		inferior conj	16285 Oct 20 08:00	15° M 32'45	-2°21'25
	16283 Apr 17 01:39	0° X		minimum elong	16285 Oct 20 02:36	15° M 40'59	2°19'16
desc. node	16283 Apr 26 15:16	11° X 47'57		min. Earth dist.	16285 Oct 19 22:29	15° M 47'14	0.27045 AU
	16283 May 11 08:54	0° Π		morning rise	16285 Oct 26 05:05	12° M 06'59	
max. Earth dist.	16283 May 23 12:05	15° Π 01'05	1.72631 AU	direct	16285 Nov 10 03:31	7° M 49'09	
				greatest brilliancy	16285 Nov 19 18:48	9° M 32'22	-4.8m
superior conj	16283 May 25 22:07	18° Π 00'54	-1°03'53		16285 Dec 20 05:18	0° X	
minimum elong	16283 May 25 11:07	17° Π 26'47	1°04'10	morning max el	16285 Dec 29 16:31	8° X 52'22	46°14'31
	16283 Jun 04 13:58	0° G			16286 Jan 19 04:29	0° Z	
	16283 Jun 28 17:00	0° Ω		asc. node	16286 Feb 01 05:59	14° Z 21'38	
evening rise	16283 Jul 03 20:11	6° Ω 23'32			16286 Feb 15 00:50	0° \approx	
	16283 Jul 22 18:55	0° M			16286 Mar 12 16:30	0° X	
	16283 Aug 15 21:07	0° L			16286 Apr 06 17:51	0° Υ	
asc. node	16283 Aug 17 06:56	1° L 45'09			16286 May 01 11:02	0° X	
	16283 Sep 09 01:15	0° M		desc. node	16286 May 24 04:03	27° X 49'09	
	16283 Oct 03 09:42	0° X			16286 May 25 22:35	0° Π	
	16283 Oct 28 02:52	0° Z			16286 Jun 19 05:26	0° G	
	16283 Nov 22 13:19	0° \approx		morning set	16286 Jun 28 15:27	11° G 41'37	
desc. node	16283 Dec 07 01:15	16° \approx 27'10			16286 Jul 13 08:20	0° Ω	
	16283 Dec 19 11:35	0° X		max. Earth dist.	16286 Aug 05 07:51	28° Ω 42'47	1.71714 AU

	16286 Aug 06 08:33	0°♎	morning rise	16289 Jan 03 18:11	25°♂47'22	
			direct	16289 Jan 22 01:27	19°♂31'47	
superior conj	16286 Aug 07 05:36	1°♎05'50 -1°16'25	greatest brilliancy	16289 Jan 31 23:41	21°♂18'58	-4.8m
minimum elong	16286 Aug 07 15:46	1°♎37'40 1°16'34		16289 Feb 16 21:15	0°♊	
	16286 Aug 30 07:32	0°♊	asc. node	16289 Feb 28 16:03	9°♊22'30	
asc. node	16286 Sep 13 20:39	18°♊12'50	morning max el	16289 Mar 12 02:18	19°♊55'03	45°45'02
evening rise	16286 Sep 16 06:41	21°♊14'28		16289 Mar 22 03:32	0°♋	
	16286 Sep 23 06:38	0°♌		16289 Apr 18 17:27	0°♋	
	16286 Oct 17 07:04	0°♌		16289 May 14 15:53	0°♌	
	16286 Nov 10 10:37	0°♍		16289 Jun 08 19:20	0°♌	
	16286 Dec 04 20:23	0°♎	desc. node	16289 Jun 20 15:55	14°♌22'04	
	16286 Dec 29 16:49	0°♋		16289 Jul 03 11:08	0°♍	
desc. node	16287 Jan 03 13:20	5°♋46'25		16289 Jul 27 19:04	0°♎	
	16287 Jan 24 06:08	0°♋		16289 Aug 20 21:58	0°♎	
	16287 Feb 19 23:40	0°♌	morning set	16289 Sep 10 20:05	26°♎08'07	
evening max el	16287 Mar 16 05:34	25°♌04'53 46°00'36		16289 Sep 13 22:13	0°♏	
	16287 Mar 21 09:43	0°♌		16289 Oct 07 21:25	0°♏	
greatest brilliancy	16287 Apr 24 10:22	23°♌56'44 -4.8m	asc. node	16289 Oct 11 10:15	4°♏25'36	
asc. node	16287 Apr 26 10:23	24°♌35'26				
retrograde	16287 May 04 10:13	25°♌47'18	superior conj	16289 Oct 20 09:12	15°♏38'31	0°21'49
evening set	16287 May 20 06:36	20°♌54'24	minimum elong	16289 Oct 20 03:52	15°♏21'48	0°21'59
inferior conj	16287 May 25 13:05	17°♌41'23 6°31'36	max. Earth dist.	16289 Oct 20 23:39	16°♏23'44	1.71682 AU
minimum elong	16287 May 25 02:30	17°♌58'05 6°28'39		16289 Oct 31 20:33	0°♐	
min. Earth dist.	16287 May 25 10:38	17°♌45'15 0.28242 AU		16289 Nov 24 20:41	0°♑	
morning rise	16287 May 29 22:14	14°♌58'56	evening rise	16289 Nov 27 18:11	3°♑36'42	
direct	16287 Jun 15 16:36	9°♌31'46		16289 Dec 18 23:32	0°♒	
greatest brilliancy	16287 Jun 25 19:05	11°♌25'45 -4.8m		16290 Jan 12 07:23	0°♋	
	16287 Jul 23 10:50	0°♍	desc. node	16290 Jan 31 02:21	22°♋55'58	
morning max el	16287 Aug 04 18:51	11°♍41'44 46°43'19		16290 Feb 05 22:16	0°♋	
desc. node	16287 Aug 16 11:25	23°♍47'38		16290 Mar 02 21:46	0°♌	
	16287 Aug 22 05:24	0°♎		16290 Mar 28 08:11	0°♌	
	16287 Sep 17 16:09	0°♎		16290 Apr 23 12:19	0°♍	
	16287 Oct 12 23:20	0°♏		16290 May 21 08:49	0°♎	
	16287 Nov 06 18:20	0°♏	asc. node	16290 May 23 21:07	2°♎32'19	
	16287 Dec 01 07:01	0°♐	evening max el	16290 May 26 22:57	5°♎35'35	46°14'36
asc. node	16287 Dec 07 09:49	7°♐31'00		16290 Jun 25 03:51	0°♎	
	16287 Dec 25 15:51	0°♑	greatest brilliancy	16290 Jul 06 04:29	5°♎24'12	-4.8m
	16288 Jan 18 22:22	0°♒	retrograde	16290 Jul 15 14:46	7°♎04'19	
morning set	16288 Feb 04 15:00	20°♒39'24	evening set	16290 Aug 01 23:14	1°♎16'57	
	16288 Feb 12 04:16	0°♋		16290 Aug 04 02:06	30°♒♏	
	16288 Mar 07 10:53	0°♋	inferior conj	16290 Aug 05 07:54	29°♏14'04	8°07'37
			minimum elong	16290 Aug 05 16:56	29°♏00'06	8°05'54
superior conj	16288 Mar 12 17:00	6°♋29'10 0°36'31	min. Earth dist.	16290 Aug 06 01:41	28°♏46'35	0.27490 AU
minimum elong	16288 Mar 13 00:35	6°♋52'34 0°36'10	morning rise	16290 Aug 09 10:27	26°♏44'20	
max. Earth dist.	16288 Mar 13 15:32	7°♋38'43 1.73085 AU	direct	16290 Aug 26 05:44	21°♏14'36	
desc. node	16288 Mar 28 03:45	25°♋32'17	greatest brilliancy	16290 Sep 05 12:56	23°♏14'36	-4.9m
	16288 Mar 31 18:36	0°♌	desc. node	16290 Sep 12 21:17	26°♏43'24	
evening rise	16288 Apr 19 17:26	23°♌21'16		16290 Sep 18 03:08	0°♎	
	16288 Apr 25 02:51	0°♌	morning max el	16290 Oct 15 17:17	23°♎56'12	46°53'04
	16288 May 19 10:56	0°♍		16290 Oct 21 16:13	0°♏	
	16288 Jun 12 19:04	0°♎		16290 Nov 18 04:04	0°♏	
	16288 Jul 07 04:47	0°♎		16290 Dec 14 02:21	0°♐	
asc. node	16288 Jul 18 19:27	14°♎12'22	asc. node	16291 Jan 03 21:13	24°♐41'20	
	16288 Jul 31 18:49	0°♏		16291 Jan 08 07:30	0°♑	
	16288 Aug 25 17:38	0°♏		16291 Feb 02 02:54	0°♒	
	16288 Sep 20 10:35	0°♐		16291 Feb 26 16:35	0°♋	
	16288 Oct 17 23:40	0°♑		16291 Mar 23 03:13	0°♋	
evening max el	16288 Oct 21 10:53	3°♑30'21 46°35'04	morning set	16291 Apr 14 20:19	27°♋57'24	
desc. node	16288 Nov 07 15:59	19°♑24'51		16291 Apr 16 12:07	0°♌	
	16288 Nov 22 12:07	0°♒	desc. node	16291 Apr 25 17:04	11°♌21'15	
greatest brilliancy	16288 Nov 30 02:06	3°♒36'56 -4.8m		16291 May 10 19:19	0°♌	
retrograde	16288 Dec 10 14:15	5°♒39'29	max. Earth dist.	16291 May 21 05:38	12°♌54'22	1.72662 AU
	16288 Dec 27 21:05	30°♒♑				
evening set	16288 Dec 29 01:00	29°♑18'20	superior conj	16291 May 23 12:15	15°♌43'31	-1°01'21
inferior conj	16288 Dec 31 22:34	27°♑31'17 -8°59'29	minimum elong	16291 May 23 01:17	15°♌09'33	1°01'36
minimum elong	16288 Dec 31 21:32	27°♑32'54 8°58'50		16291 Jun 04 00:27	0°♍	
min. Earth dist.	16288 Dec 31 11:21	27°♑48'42 0.28329 AU		16291 Jun 28 03:36	0°♎	

evening rise	16291 Jul 01 09:14	4°Ω01'42			16294 Jan 18 21:28	0°З		
	16291 Jul 22 05:38	0°ྐ		asc. node	16294 Jan 31 08:00	13°З44'54		
	16291 Aug 15 08:01	0°Ω			16294 Feb 14 14:38	0°≈		
asc. node	16291 Aug 16 08:49	1°Ω17'07			16294 Mar 12 04:51	0°Х		
	16291 Sep 08 12:25	0°ℒ			16294 Apr 06 05:25	0°У		
	16291 Oct 02 21:20	0°Ж			16294 Apr 30 22:11	0°Б		
	16291 Oct 27 15:18	0°З		desc. node	16294 May 23 05:50	27°Б20'59		
	16291 Nov 22 03:17	0°≈			16294 May 25 09:30	0°Π		
desc. node	16291 Dec 06 03:01	15°≈49'10			16294 Jun 18 16:13	0°Φ		
	16291 Dec 19 05:11	0°Х		morning set	16294 Jun 26 03:58	9°Φ17'55		
evening max el	16292 Jan 01 23:47	14°Х00'32	46°13'00		16294 Jul 12 19:04	0°Ω		
	16292 Jan 19 22:01	0°У		max. Earth dist.	16294 Aug 02 15:30	26°Ω03'01	1.71738 AU	
greatest brilliancy	16292 Feb 10 04:45	12°У48'28	-4.8m					
retrograde	16292 Feb 20 07:32	14°У39'57		superior conj	16294 Aug 04 17:55	28°Ω40'40	-1°18'15	
evening set	16292 Mar 07 02:07	9°У50'31		minimum elong	16294 Aug 05 03:33	29°Ω10'48	1°18'27	
inferior conj	16292 Mar 12 15:38	6°У28'01	-3°42'44		16294 Aug 05 19:17	0°ྐ		
minimum elong	16292 Mar 12 23:27	6°У15'47	3°40'33		16294 Aug 29 18:20	0°Ω		
min. Earth dist.	16292 Mar 12 19:52	6°У21'23	0.28514 AU	asc. node	16294 Sep 12 22:32	17°Ω44'46		
morning rise	16292 Mar 18 20:50	2°У44'23		evening rise	16294 Sep 13 18:59	18°Ω48'46		
	16292 Mar 24 18:47	30°Х			16294 Sep 22 17:32	0°ℒ		
asc. node	16292 Mar 28 01:58	29°Х00'19			16294 Oct 16 18:06	0°Ж		
direct	16292 Apr 02 22:16	28°Х18'56			16294 Nov 09 21:51	0°З		
	16292 Apr 12 10:35	0°У			16294 Dec 04 07:58	0°≈		
greatest brilliancy	16292 Apr 13 14:30	0°У24'58	-4.8m		16294 Dec 29 05:05	0°Х		
morning max el	16292 May 22 06:33	29°У21'03	46°00'47	desc. node	16295 Jan 02 15:14	5°Х15'13		
	16292 May 22 22:25	0°Б			16295 Jan 23 19:43	0°У		
	16292 Jun 20 05:37	0°Π			16295 Feb 19 16:06	0°Б		
	16292 Jul 16 07:27	0°Φ		evening max el	16295 Mar 13 19:37	22°Б48'29	46°00'31	
desc. node	16292 Jul 18 03:01	2°Φ08'27			16295 Mar 21 11:07	0°Π		
	16292 Aug 10 09:34	0°Ω		greatest brilliancy	16295 Apr 22 01:07	21°Π41'25	-4.8m	
	16292 Sep 03 23:09	0°ྐ		asc. node	16295 Apr 25 12:14	22°Π43'37		
	16292 Sep 28 06:09	0°Ω		retrograde	16295 May 02 00:49	23°Π32'14		
	16292 Oct 22 09:57	0°ℒ		evening set	16295 May 17 18:36	18°Π43'11		
asc. node	16292 Nov 07 23:16	20°ℒ36'23		inferior conj	16295 May 23 04:17	15°Π25'58	6°16'09	
	16292 Nov 15 12:12	0°Ж		minimum elong	16295 May 22 17:42	15°Π42'38	6°13'07	
morning set	16292 Nov 22 21:56	9°Ж13'45		min. Earth dist.	16295 May 23 01:53	15°Π29'44	0.28254 AU	
	16292 Dec 09 13:52	0°З		morning rise	16295 May 27 16:35	12°Π38'53		
				direct	16295 Jun 13 07:14	7°Π16'01		
superior conj	16292 Dec 30 20:08	26°З28'36	1°26'50	greatest brilliancy	16295 Jun 23 11:27	9°Π11'14	-4.8m	
minimum elong	16292 Dec 30 18:30	26°З23'34	1°27'29		16295 Jul 23 14:27	0°Φ		
max. Earth dist.	16293 Jan 02 09:42	29°З40'04	1.72446 AU	morning max el	16295 Aug 02 09:04	9°Φ22'26	46°42'11	
	16293 Jan 02 16:07	0°≈		desc. node	16295 Aug 15 13:27	23°Φ03'45		
	16293 Jan 26 20:28	0°Х			16295 Aug 21 22:39	0°Ω		
evening rise	16293 Feb 06 07:00	12°Х53'57			16295 Sep 17 06:22	0°ྐ		
	16293 Feb 20 04:12	0°У			16295 Oct 12 12:10	0°Ω		
desc. node	16293 Feb 27 15:56	9°У11'46			16295 Nov 06 06:22	0°ℒ		
	16293 Mar 16 15:42	0°Б			16295 Nov 30 18:32	0°Ж		
	16293 Apr 10 06:37	0°Π		asc. node	16295 Dec 06 11:35	7°Ж01'20		
	16293 May 05 01:07	0°Φ			16295 Dec 25 02:59	0°З		
	16293 May 30 01:24	0°Ω			16296 Jan 18 09:15	0°≈		
asc. node	16293 Jun 20 08:39	25°Ω07'05		morning set	16296 Feb 02 07:41	18°≈29'06		
	16293 Jun 24 13:32	0°ྐ			16296 Feb 11 15:00	0°Х		
	16293 Jul 21 04:01	0°Ω			16296 Mar 06 21:34	0°У		
evening max el	16293 Aug 08 00:38	18°Ω42'06	46°36'22					
	16293 Aug 19 21:58	0°ℒ		superior conj	16296 Mar 10 09:13	4°У18'11	0°39'35	
greatest brilliancy	16293 Sep 16 13:43	18°ℒ51'46	-4.9m	minimum elong	16296 Mar 10 17:18	4°У43'07	0°39'15	
retrograde	16293 Sep 27 03:06	20°ℒ55'50		max. Earth dist.	16296 Mar 11 10:08	5°У35'02	1.73081 AU	
desc. node	16293 Oct 10 07:22	17°ℒ29'25		desc. node	16296 Mar 27 05:33	25°У04'50		
evening set	16293 Oct 11 13:14	16°ℒ50'59			16296 Mar 31 05:20	0°Б		
inferior conj	16293 Oct 17 20:54	13°ℒ09'44	-1°58'01	evening rise	16296 Apr 17 09:15	21°Б08'53		
minimum elong	16293 Oct 17 16:21	13°ℒ16'40	1°56'08		16296 Apr 24 13:42	0°Π		
min. Earth dist.	16293 Oct 17 12:56	13°ℒ21'53	0.27015 AU		16296 May 18 21:59	0°Φ		
morning rise	16293 Oct 23 19:53	9°ℒ41'03			16296 Jun 12 06:26	0°Ω		
direct	16293 Nov 07 15:59	5°ℒ26'21			16296 Jul 06 16:35	0°ྐ		
greatest brilliancy	16293 Nov 17 08:24	7°ℒ10'08	-4.8m	asc. node	16296 Jul 17 21:21	13°ྐ41'22		
	16293 Dec 20 08:32	0°Ж			16296 Jul 31 07:17	0°Ω		
morning max el	16293 Dec 27 04:56	6°Ж29'54	46°16'06		16296 Aug 25 07:14	0°ℒ		

	16296 Sep 20 02:22	0°♊			16299 Feb 26 03:50	0°♋		
	16296 Oct 17 21:09	0°♌			16299 Mar 22 14:13	0°♍		
evening max el	16296 Oct 19 00:54	1°♌09'39	46°35'38	morning set	16299 Apr 12 12:03	25°♍44'31		
desc. node	16296 Nov 06 17:46	18°♌18'33			16299 Apr 15 22:58	0°♎		
	16296 Nov 24 13:14	0°♏		desc. node	16299 Apr 24 18:51	10°♎53'18		
greatest brilliancy	16296 Nov 27 15:48	1°♏18'07	-4.8m		16299 May 10 06:08	0°♐		
retrograde	16296 Dec 08 05:24	3°♏22'14		max. Earth dist.	16299 May 18 21:51	10°♐42'31	1.72688 AU	
	16296 Dec 21 06:48	30°♏3						
evening set	16296 Dec 26 13:59	27°♏03'27		superior conj	16299 May 21 02:36	13°♐25'49	-0°58'43	
min. Earth dist.	16296 Dec 29 00:55	25°♏33'11	0.28296 AU	minimum elong	16299 May 20 15:45	12°♐52'13	0°58'56	
inferior conj	16296 Dec 29 13:06	25°♏14'20	-8°58'20		16299 Jun 03 11:17	0°♑		
minimum elong	16296 Dec 29 11:10	25°♏17'20	8°57'37		16299 Jun 27 14:31	0°♒		
morning rise	16297 Jan 01 08:27	23°♏31'03		evening rise	16299 Jun 28 22:27	1°♒39'23		
direct	16297 Jan 19 15:29	17°♏15'13			16299 Jul 21 16:43	0°♓		
greatest brilliancy	16297 Jan 29 13:08	19°♏02'07	-4.8m		16299 Aug 14 19:18	0°♑		
	16297 Feb 17 13:45	0°♒		asc. node	16299 Aug 15 10:41	0°♑47'45		
asc. node	16297 Feb 27 17:58	8°♒24'13			16299 Sep 08 00:02	0°♒		
morning max el	16297 Mar 09 17:28	17°♒40'38	45°45'33		16299 Oct 02 09:27	0°♊		
	16297 Mar 21 22:32	0°♋			16299 Oct 27 04:16	0°♌		
	16297 Apr 18 08:06	0°♍			16299 Nov 21 17:52	0°♎		
	16297 May 14 04:46	0°♎		desc. node	16299 Dec 05 04:58	15°♎10'03		
	16297 Jun 08 07:20	0°♏			16299 Dec 18 23:42	0°♋		
desc. node	16297 Jun 19 17:48	13°♏52'03		evening max el	16299 Dec 30 15:13	11°♋46'57	46°13'42	
	16297 Jul 02 22:40	0°♑			16300 Jan 20 10:19	0°♍		
	16297 Jul 27 06:20	0°♒		greatest brilliancy	16300 Feb 07 20:33	10°♍35'54	-4.8m	
	16297 Aug 20 09:05	0°♓		retrograde	16300 Feb 17 22:37	12°♍26'31		
morning set	16297 Sep 08 08:39	23°♓42'49		evening set	16300 Mar 05 20:01	7°♍34'00		
	16297 Sep 13 09:14	0°♑		inferior conj	16300 Mar 11 07:06	4°♍14'42	-4°02'01	
	16297 Oct 07 08:21	0°♒		minimum elong	16300 Mar 11 15:26	4°♍01'38	3°59'42	
asc. node	16297 Oct 10 11:59	3°♒56'48		min. Earth dist.	16300 Mar 11 11:31	4°♍07'46	0.28522 AU	
				morning rise	16300 Mar 17 10:54	0°♍32'43		
superior conj	16297 Oct 17 22:13	13°♒14'50	0°18'09		16300 Mar 18 11:16	30°♒♋		
minimum elong	16297 Oct 17 17:42	13°♒00'41	0°18'20	asc. node	16300 Mar 28 03:51	26°♋29'26		
max. Earth dist.	16297 Oct 18 12:36	13°♒59'52	1.71669 AU	direct	16300 Apr 01 13:59	26°♋05'55		
	16297 Oct 31 07:26	0°♊		greatest brilliancy	16300 Apr 12 05:40	28°♋11'10	-4.8m	
	16297 Nov 24 07:36	0°♌			16300 Apr 16 10:03	0°♍		
evening rise	16297 Nov 25 09:02	1°♌19'19		morning max el	16300 May 20 21:05	27°♍04'57	45°59'37	
	16297 Dec 18 10:35	0°♎			16300 May 23 19:49	0°♎		
	16298 Jan 11 18:38	0°♋			16300 Jun 20 21:04	0°♏		
desc. node	16298 Jan 30 04:17	22°♋26'57		desc. node	16300 Jul 16 20:45	0°♑		
	16298 Feb 05 09:53	0°♍			16300 Jul 18 05:02	1°♑35'23		
	16298 Mar 02 10:00	0°♎			16300 Aug 10 21:50	0°♒		
	16298 Mar 27 21:30	0°♏			16300 Sep 04 10:50	0°♓		
	16298 Apr 23 03:50	0°♑			16300 Sep 28 17:30	0°♑		
	16298 May 21 05:57	0°♒			16300 Oct 22 21:03	0°♒		
asc. node	16298 May 22 22:57	1°♒42'19		asc. node	16300 Nov 08 01:05	20°♒07'49		
evening max el	16298 May 24 13:47	3°♒18'14	46°13'47		16300 Nov 15 23:08	0°♊		
	16298 Jun 26 19:23	0°♋		morning set	16300 Nov 21 12:03	6°♊54'15		
greatest brilliancy	16298 Jul 03 17:12	3°♋01'40	-4.8m		16300 Dec 10 00:40	0°♌		
retrograde	16298 Jul 13 04:24	4°♋42'07						
	16298 Jul 28 15:22	30°♋♒		superior conj	16300 Dec 29 11:50	24°♌14'47	1°26'30	
evening set	16298 Jul 30 15:47	28°♒49'46		minimum elong	16300 Dec 29 09:23	24°♌07'11	1°27'08	
inferior conj	16298 Aug 02 21:23	26°♒51'08	8°17'39	max. Earth dist.	16301 Jan 01 00:58	27°♌24'55	1.72411 AU	
minimum elong	16298 Aug 03 05:50	26°♒38'03	8°16'06		16301 Jan 03 02:50	0°♎		
min. Earth dist.	16298 Aug 03 14:28	26°♒24'42	0.27531 AU		16301 Jan 27 07:12	0°♋		
morning rise	16298 Aug 06 19:46	24°♒27'23		evening rise	16301 Feb 04 22:26	10°♋40'15		
direct	16298 Aug 23 20:12	18°♒51'10			16301 Feb 20 15:03	0°♍		
greatest brilliancy	16298 Sep 03 01:48	20°♒50'03	-4.9m	desc. node	16301 Feb 27 17:42	8°♍43'46		
desc. node	16298 Sep 11 23:13	25°♒12'56			16301 Mar 17 02:47	0°♎		
	16298 Sep 19 01:42	0°♓			16301 Apr 10 18:04	0°♏		
morning max el	16298 Oct 13 08:07	21°♓36'11	46°53'35		16301 May 05 13:06	0°♑		
	16298 Oct 21 12:44	0°♑			16301 May 30 14:14	0°♒		
	16298 Nov 17 19:37	0°♒		asc. node	16301 Jun 20 10:38	24°♒31'59		
	16298 Dec 13 15:48	0°♊			16301 Jun 25 03:57	0°♓		
asc. node	16299 Jan 02 23:13	24°♊09'51			16301 Jul 21 21:56	0°♑		
	16299 Jan 07 19:50	0°♌		evening max el	16301 Aug 06 13:22	16°♑17'33	46°35'48	
	16299 Feb 01 14:34	0°♎			16301 Aug 21 04:18	0°♒		

greatest brilliancy	16301 Sep 15 04:39	16° \mathbb{M} 29'38	-4.9m	minimum elong	16304 Mar 09 09:47	2° Υ 33'35	0°42'17
retrograde	16301 Sep 25 15:42	18° \mathbb{M} 31'53		max. Earth dist.	16304 Mar 10 05:39	3° Υ 34'54	1.73076 AU
evening set	16301 Oct 10 02:02	14° \mathbb{M} 27'35		desc. node	16304 Mar 27 07:15	24° Υ 37'49	
desc. node	16301 Oct 10 09:11	14° \mathbb{M} 18'03			16304 Mar 31 15:49	0° \mathcal{B}	
inferior conj	16301 Oct 16 09:49	10° \mathbb{M} 46'31	-1°34'16	evening rise	16304 Apr 16 00:50	18° \mathcal{B} 56'37	
minimum elong	16301 Oct 16 06:09	10° \mathbb{M} 52'06	1°32'41		16304 Apr 25 00:18	0° \mathbb{I}	
min. Earth dist.	16301 Oct 16 03:37	10° \mathbb{M} 55'58	0.26995 AU		16304 May 19 08:47	0° \mathcal{E}	
morning rise	16301 Oct 22 10:31	7° \mathbb{M} 15'10			16304 Jun 12 17:32	0° \mathcal{Q}	
direct	16301 Nov 06 04:07	3° \mathbb{M} 02'57			16304 Jul 07 04:09	0° \mathbb{P}	
greatest brilliancy	16301 Nov 15 22:42	4° \mathbb{M} 48'11	-4.8m	asc. node	16304 Jul 17 23:13	13° \mathbb{P} 10'59	
	16301 Dec 21 10:25	0° \mathcal{A}			16304 Jul 31 19:33	0° \mathcal{E}	
morning max el	16301 Dec 25 17:32	4° \mathcal{A} 07'12	46°17'38		16304 Aug 25 20:38	0° \mathbb{M}	
	16302 Jan 19 14:17	0° \mathcal{B}			16304 Sep 20 17:59	0° \mathcal{A}	
asc. node	16302 Jan 31 09:55	13° \mathcal{B} 07'43		evening max el	16304 Oct 17 16:01	28° \mathcal{A} 53'06	46°36'19
	16302 Feb 15 04:25	0° \approx			16304 Oct 18 18:54	0° \mathcal{B}	
	16302 Mar 12 17:12	0° \mathcal{H}		desc. node	16304 Nov 06 19:44	17° \mathcal{B} 12'28	
	16302 Apr 06 17:00	0° Υ		greatest brilliancy	16304 Nov 26 05:16	29° \mathcal{B} 00'53	-4.8m
	16302 May 01 09:21	0° \mathcal{B}			16304 Nov 29 04:59	0° \approx	
desc. node	16302 May 23 07:39	26° \mathcal{B} 52'53		retrograde	16304 Dec 06 21:01	1° \approx 06'53	
	16302 May 25 20:26	0° \mathbb{I}			16304 Dec 14 06:57	30° \mathcal{R} \mathcal{B}	
	16302 Jun 19 03:01	0° \mathcal{E}		evening set	16304 Dec 25 02:44	24° \mathcal{B} 51'09	
morning set	16302 Jun 24 16:28	6° \mathcal{E} 54'07		min. Earth dist.	16304 Dec 27 14:21	23° \mathcal{B} 20'03	0.28261 AU
	16302 Jul 13 05:48	0° \mathcal{Q}		inferior conj	16304 Dec 28 03:47	22° \mathcal{B} 59'17	-8°56'16
max. Earth dist.	16302 Aug 01 00:43	23° \mathcal{Q} 28'17	1.71759 AU	minimum elong	16304 Dec 28 01:00	23° \mathcal{B} 03'36	8°55'30
				morning rise	16304 Dec 30 23:23	21° \mathcal{B} 15'53	
superior conj	16302 Aug 03 06:26	26° \mathcal{Q} 16'15	-1°19'56	direct	16305 Jan 18 06:14	15° \mathcal{B} 00'48	
minimum elong	16302 Aug 03 15:27	26° \mathcal{Q} 44'28	1°20'10	greatest brilliancy	16305 Jan 28 02:12	16° \mathcal{B} 46'40	-4.8m
	16302 Aug 06 05:58	0° \mathbb{P}			16305 Feb 19 01:15	0° \approx	
	16302 Aug 30 05:03	0° \mathcal{E}		asc. node	16305 Feb 27 19:49	7° \approx 28'31	
evening rise	16302 Sep 12 07:34	16° \mathcal{E} 24'21		morning max el	16305 Mar 08 09:13	15° \approx 29'05	45°45'49
asc. node	16302 Sep 13 00:14	17° \mathcal{E} 16'30			16305 Mar 22 16:33	0° \mathcal{H}	
	16302 Sep 23 04:19	0° \mathbb{M}			16305 Apr 18 22:11	0° Υ	
	16302 Oct 17 05:00	0° \mathcal{A}			16305 May 14 17:11	0° \mathcal{B}	
	16302 Nov 10 08:59	0° \mathcal{B}			16305 Jun 08 18:54	0° \mathbb{I}	
	16302 Dec 04 19:30	0° \approx		desc. node	16305 Jun 19 19:44	13° \mathbb{I} 23'26	
	16302 Dec 29 17:22	0° \mathcal{H}			16305 Jul 03 09:46	0° \mathcal{E}	
desc. node	16303 Jan 02 17:07	4° \mathcal{H} 43'59			16305 Jul 27 17:11	0° \mathcal{Q}	
	16303 Jan 24 09:23	0° Υ			16305 Aug 20 19:48	0° \mathbb{P}	
	16303 Feb 20 08:49	0° \mathcal{B}		morning set	16305 Sep 06 21:11	21° \mathbb{P} 18'43	
evening max el	16303 Mar 12 10:00	20° \mathcal{B} 33'10	46°00'36		16305 Sep 13 19:51	0° \mathcal{E}	
	16303 Mar 22 13:54	0° \mathbb{I}			16305 Oct 07 18:53	0° \mathbb{M}	
greatest brilliancy	16303 Apr 20 15:15	19° \mathbb{I} 25'38	-4.8m	asc. node	16305 Oct 10 13:49	3° \mathbb{M} 29'34	
asc. node	16303 Apr 25 14:08	20° \mathbb{I} 47'41					
retrograde	16303 Apr 30 15:48	21° \mathbb{I} 17'26		superior conj	16305 Oct 16 11:15	10° \mathbb{M} 52'27	0°14'26
evening set	16303 May 16 06:42	16° \mathbb{I} 31'47		minimum elong	16305 Oct 16 07:36	10° \mathbb{M} 41'01	0°14'39
inferior conj	16303 May 21 19:22	13° \mathbb{I} 10'38	6°00'02	behind sun begin	16305 Oct 15 20:57	10° \mathbb{M} 07'40	
minimum elong	16303 May 21 08:53	13° \mathbb{I} 27'07	5°56'57	behind sun end	16305 Oct 16 18:15	11° \mathbb{M} 14'22	
min. Earth dist.	16303 May 21 16:49	13° \mathbb{I} 14'39	0.28265 AU	max. Earth dist.	16305 Oct 17 02:28	11° \mathbb{M} 40'06	1.71651 AU
morning rise	16303 May 26 10:52	10° \mathbb{I} 19'08			16305 Oct 31 17:54	0° \mathcal{A}	
direct	16303 Jun 11 22:14	5° \mathbb{I} 00'21		evening rise	16305 Nov 24 00:04	29° \mathcal{A} 03'52	
greatest brilliancy	16303 Jun 22 03:29	6° \mathbb{I} 56'43	-4.8m		16305 Nov 24 18:04	0° \mathcal{B}	
	16303 Jul 24 16:19	0° \mathcal{E}			16305 Dec 18 21:07	0° \approx	
morning max el	16303 Aug 01 00:18	7° \mathcal{E} 06'11	46°41'06		16306 Jan 12 05:23	0° \mathcal{H}	
desc. node	16303 Aug 15 15:14	22° \mathcal{E} 20'17		desc. node	16306 Jan 30 06:04	21° \mathcal{H} 59'02	
	16303 Aug 22 15:21	0° \mathcal{Q}			16306 Feb 05 21:01	0° Υ	
	16303 Sep 17 20:13	0° \mathbb{P}			16306 Mar 02 21:48	0° \mathcal{B}	
	16303 Oct 13 00:39	0° \mathcal{E}			16306 Mar 28 10:29	0° \mathbb{I}	
	16303 Nov 06 18:03	0° \mathbb{M}			16306 Apr 23 19:09	0° \mathcal{E}	
	16303 Dec 01 05:42	0° \mathcal{A}			16306 May 22 03:26	0° \mathcal{Q}	
asc. node	16303 Dec 06 13:32	6° \mathcal{A} 33'13		evening max el	16306 May 23 04:30	1° \mathcal{Q} 01'45	46°12'56
	16303 Dec 25 13:48	0° \mathcal{B}		asc. node	16306 May 23 00:59	0° \mathcal{Q} 53'06	
	16304 Jan 18 19:51	0° \approx			16306 Jun 30 09:33	0° \mathbb{P}	
morning set	16304 Feb 01 00:18	16° \approx 19'23		greatest brilliancy	16306 Jul 02 06:25	0° \mathbb{P} 41'10	-4.8m
	16304 Feb 12 01:29	0° \mathcal{H}		retrograde	16306 Jul 11 17:40	2° \mathbb{P} 21'18	
	16304 Mar 07 08:01	0° Υ			16306 Jul 22 12:30	30° \mathcal{R} \mathcal{Q}	
				evening set	16306 Jul 29 08:15	26° \mathcal{Q} 24'28	
superior conj	16304 Mar 09 01:15	2° Υ 07'16	0°42'37	inferior conj	16306 Aug 01 10:57	24° \mathcal{Q} 29'48	8°26'43

minimum elong	16306 Aug 01 18:46	24°Ω17'41	8°25'20		16309 Jan 02 13:16	0°≈	
min. Earth dist.	16306 Aug 02 03:28	24°Ω04'10	0.27571 AU		16309 Jan 26 17:37	0°✠	
morning rise	16306 Aug 05 05:11	22°Ω11'49		evening rise	16309 Feb 02 14:05	8°✠28'08	
direct	16306 Aug 22 10:24	16°Ω29'24			16309 Feb 20 01:33	0°Υ	
greatest brilliancy	16306 Sep 01 14:58	18°Ω27'13	-4.9m	desc. node	16309 Feb 26 19:28	8°Υ16'49	
desc. node	16306 Sep 12 01:07	23°Ω46'48			16309 Mar 16 13:30	0°⋈	
	16306 Sep 20 17:47	0°♐			16309 Apr 10 05:09	0°♐	
morning max el	16306 Oct 11 22:06	19°♐15'15	46°54'02		16309 May 05 00:46	0°♋	
	16306 Oct 22 08:06	0°♌			16309 May 30 02:52	0°♌	
	16306 Nov 18 10:30	0°♍		asc. node	16309 Jun 19 12:27	23°♌56'46	
	16306 Dec 14 04:41	0°♎			16309 Jun 24 18:19	0°♐	
asc. node	16307 Jan 03 01:03	23°♎39'25			16309 Jul 21 16:09	0°♌	
	16307 Jan 08 07:37	0°♏		evening max el	16309 Aug 04 01:49	13°♌52'39	46°35'11
	16307 Feb 02 01:41	0°≈			16309 Aug 21 13:03	0°♍	
	16307 Feb 26 14:32	0°✠		greatest brilliancy	16309 Sep 12 19:05	14°♍06'54	-4.9m
	16307 Mar 23 00:42	0°Υ		retrograde	16309 Sep 23 04:20	16°♍08'04	
morning set	16307 Apr 11 03:57	23°Υ33'38		evening set	16309 Oct 07 14:54	12°♍03'35	
	16307 Apr 16 09:21	0°⋈		desc. node	16309 Oct 09 11:10	11°♍02'52	
desc. node	16307 Apr 24 20:44	10°⋈27'07		inferior conj	16309 Oct 13 22:33	8°♍23'13	-1°10'12
	16307 May 10 16:30	0°♐		minimum elong	16309 Oct 13 19:49	8°♍27'23	1°08'56
max. Earth dist.	16307 May 17 11:43	8°♐24'45	1.72720 AU	min. Earth dist.	16309 Oct 13 18:03	8°♍30'04	0.26976 AU
				morning rise	16309 Oct 20 00:51	4°♍49'40	
superior conj	16307 May 19 16:59	11°♐09'35	-0°55'58	direct	16309 Nov 03 16:11	0°♍39'16	
minimum elong	16307 May 19 06:18	10°♐36'32	0°56'11	greatest brilliancy	16309 Nov 13 12:52	2°♍26'19	-4.8m
	16307 Jun 03 21:44	0°♋			16309 Dec 21 10:47	0°♎	
evening rise	16307 Jun 27 11:31	29°♋17'52		morning max el	16309 Dec 23 06:46	1°♎46'28	46°19'16
	16307 Jun 28 01:04	0°♌			16310 Jan 19 06:33	0°♏	
	16307 Jul 22 03:24	0°♐		asc. node	16310 Jan 30 11:43	12°♏31'06	
	16307 Aug 15 06:13	0°♌			16310 Feb 14 17:52	0°≈	
asc. node	16307 Aug 15 12:24	0°♌19'12			16310 Mar 12 05:17	0°✠	
	16307 Sep 08 11:17	0°♍			16310 Apr 06 04:20	0°Υ	
	16307 Oct 02 21:14	0°♎			16310 Apr 30 20:16	0°⋈	
	16307 Oct 27 16:55	0°♏		desc. node	16310 May 22 09:34	26°⋈25'52	
	16307 Nov 22 08:12	0°≈			16310 May 25 07:07	0°♐	
desc. node	16307 Dec 05 06:55	14°≈31'46			16310 Jun 18 13:36	0°♋	
	16307 Dec 19 18:10	0°✠		morning set	16310 Jun 22 05:17	4°♋32'04	
evening max el	16307 Dec 29 06:03	9°✠33'13	46°14'33		16310 Jul 12 16:21	0°♌	
	16308 Jan 22 01:49	0°Υ		max. Earth dist.	16310 Jul 29 12:13	21°♌01'02	1.71789 AU
greatest brilliancy	16308 Feb 06 12:50	8°Υ25'47	-4.8m				
retrograde	16308 Feb 16 13:37	10°Υ15'31		superior conj	16310 Jul 31 18:56	23°♌52'06	-1°21'27
evening set	16308 Mar 03 14:14	5°Υ19'38		minimum elong	16310 Aug 01 03:15	24°♌18'08	1°21'45
inferior conj	16308 Mar 08 22:51	2°Υ03'53	-4°20'41		16310 Aug 05 16:34	0°♐	
minimum elong	16308 Mar 09 07:39	1°Υ50'03	4°18'15		16310 Aug 29 15:44	0°♌	
min. Earth dist.	16308 Mar 09 03:37	1°Υ56'23	0.28529 AU	evening rise	16310 Sep 09 19:50	13°♌59'03	
	16308 Mar 12 06:45	30°♎✠		asc. node	16310 Sep 12 02:07	16°♌48'51	
morning rise	16308 Mar 15 01:04	28°♎23'44			16310 Sep 22 15:05	0°♍	
asc. node	16308 Mar 27 05:45	24°♎05'56			16310 Oct 16 15:54	0°♎	
direct	16308 Mar 30 05:27	23°♎55'17			16310 Nov 09 20:07	0°♏	
greatest brilliancy	16308 Apr 09 21:32	26°♎00'19	-4.8m		16310 Dec 04 07:04	0°≈	
	16308 Apr 18 03:09	0°Υ			16310 Dec 29 05:41	0°✠	
morning max el	16308 May 18 11:16	24°Υ49'28	45°58'19	desc. node	16311 Jan 01 18:54	4°✠12'21	
	16308 May 23 15:54	0°⋈			16311 Jan 23 23:11	0°Υ	
	16308 Jun 20 11:53	0°♐			16311 Feb 20 01:51	0°⋈	
	16308 Jul 16 09:37	0°♋		evening max el	16311 Mar 10 01:26	18°⋈20'44	46°00'51
desc. node	16308 Jul 17 06:48	1°♋02'41			16311 Mar 22 18:17	0°♐	
	16308 Aug 10 09:45	0°♌		greatest brilliancy	16311 Apr 18 05:07	17°♐10'20	-4.8m
	16308 Sep 03 22:12	0°♐		asc. node	16311 Apr 24 16:09	18°♐48'01	
	16308 Sep 28 04:30	0°♌		retrograde	16311 Apr 28 07:19	19°♐03'28	
	16308 Oct 22 07:49	0°♍		evening set	16311 May 13 19:12	14°♐21'06	
asc. node	16308 Nov 07 02:58	19°♍40'30		inferior conj	16311 May 19 10:37	10°♐56'07	5°43'24
	16308 Nov 15 09:44	0°♎		minimum elong	16311 May 19 00:17	11°♐12'19	5°40'18
morning set	16308 Nov 19 01:59	4°♎35'06		min. Earth dist.	16311 May 19 07:33	11°♐00'55	0.28273 AU
	16308 Dec 09 11:10	0°♏		morning rise	16311 May 24 05:13	8°♐00'23	
				direct	16311 Jun 09 13:56	2°♐45'48	
superior conj	16308 Dec 27 03:34	22°♏02'00	1°26'01	greatest brilliancy	16311 Jun 19 18:59	4°♐42'31	-4.8m
minimum elong	16308 Dec 27 00:19	21°♏51'51	1°26'39		16311 Jul 24 16:40	0°♋	
max. Earth dist.	16308 Dec 29 13:54	25°♏03'26	1.72377 AU	morning max el	16311 Jul 29 15:59	4°♋51'40	46°39'44

desc. node	16311 Aug 14 17:11	21°☿37'59		16314 Mar 02 10:04	0°♄	
	16311 Aug 22 07:41	0°♌		16314 Mar 28 00:01	0°♊	
	16311 Sep 17 09:59	0°♍		16314 Apr 23 11:11	0°♉	
	16311 Oct 12 13:12	0°♋	evening max el	16314 May 20 18:23	28°♉42'08	46°12'08
	16311 Nov 06 05:53	0°♌	asc. node	16314 May 22 02:49	0°♌01'20	
	16311 Nov 30 17:01	0°♍		16314 May 22 02:16	0°♌	
asc. node	16311 Dec 05 15:22	6°♍04'16	greatest brilliancy	16314 Jun 29 20:21	28°♌20'42	-4.8m
	16311 Dec 25 00:45	0°♄	retrograde	16314 Jul 09 06:40	0°♍00'01	
	16312 Jan 18 06:35	0°♋		16314 Jul 09 03:58	0°♍	
morning set	16312 Jan 29 16:37	14°♋08'17		16314 Jul 09 09:22	30°♌♌	
	16312 Feb 11 12:06	0°♋	evening set	16314 Jul 27 00:38	23°♌59'09	
			inferior conj	16314 Jul 30 00:43	22°♌08'13	8°34'49
superior conj	16312 Mar 06 17:09	29°♋55'32 0°45'36	minimum elong	16314 Jul 30 07:49	21°♌57'10	8°33'35
minimum elong	16312 Mar 07 02:05	0°♍23'03 0°45'16	min. Earth dist.	16314 Jul 30 16:55	21°♌42'59	0.27605 AU
	16312 Mar 06 18:36	0°♍	morning rise	16314 Aug 02 14:52	19°♌55'54	
max. Earth dist.	16312 Mar 08 02:00	1°♍36'54 1.73067 AU	direct	16314 Aug 20 00:12	14°♌07'19	
desc. node	16312 Mar 26 09:11	24°♍11'06	greatest brilliancy	16314 Aug 30 04:44	16°♌04'39	-4.9m
	16312 Mar 31 02:27	0°♄	desc. node	16314 Sep 11 03:05	22°♌23'05	
evening rise	16312 Apr 13 16:29	16°♄44'07		16314 Sep 21 05:58	0°♍	
	16312 Apr 24 11:02	0°♊	morning max el	16314 Oct 09 11:07	16°♍51'10	46°54'29
	16312 May 18 19:42	0°♉		16314 Oct 22 03:08	0°♋	
	16312 Jun 12 04:45	0°♌		16314 Nov 18 01:25	0°♌	
	16312 Jul 06 15:50	0°♍		16314 Dec 13 17:49	0°♍	
asc. node	16312 Jul 17 01:00	12°♍40'07	asc. node	16315 Jan 02 02:51	23°♍07'50	
	16312 Jul 31 07:57	0°♋		16315 Jan 07 19:45	0°♄	
	16312 Aug 25 10:16	0°♌		16315 Feb 01 13:13	0°♋	
	16312 Sep 20 10:06	0°♍		16315 Feb 26 01:42	0°♋	
evening max el	16312 Oct 15 07:35	26°♍36'35 46°36'43		16315 Mar 22 11:37	0°♍	
	16312 Oct 18 17:59	0°♄	morning set	16315 Apr 08 19:35	21°♍20'34	
desc. node	16312 Nov 05 21:42	16°♄03'06		16315 Apr 15 20:09	0°♄	
greatest brilliancy	16312 Nov 23 18:48	26°♄42'03 -4.8m	desc. node	16315 Apr 23 22:31	9°♄59'17	
retrograde	16312 Dec 04 12:15	28°♄49'13		16315 May 10 03:18	0°♊	
evening set	16312 Dec 22 14:45	22°♄37'33	max. Earth dist.	16315 May 15 01:43	6°♊06'10 1.72750 AU	
min. Earth dist.	16312 Dec 25 03:30	21°♄04'46 0.28221 AU				
inferior conj	16312 Dec 25 18:09	20°♄42'07 -8°53'17	superior conj	16315 May 17 07:16	8°♊51'50 -0°53'08	
minimum elong	16312 Dec 25 14:30	20°♄47'46 8°52'26	minimum elong	16315 May 16 20:50	8°♊19'34 0°53'20	
morning rise	16312 Dec 28 14:25	18°♄57'51		16315 Jun 03 08:35	0°♉	
direct	16313 Jan 15 21:00	12°♄44'29	evening rise	16315 Jun 25 00:42	26°♉55'29	
greatest brilliancy	16313 Jan 25 14:39	14°♄28'48 -4.8m		16315 Jun 27 12:01	0°♌	
	16313 Feb 19 10:13	0°♋		16315 Jul 21 14:30	0°♍	
asc. node	16313 Feb 26 21:50	6°♋33'11	asc. node	16315 Aug 14 14:18	29°♍50'03	
morning max el	16313 Mar 06 00:05	13°♋14'18 45°46'09		16315 Aug 14 17:31	0°♋	
	16313 Mar 22 10:29	0°♋		16315 Sep 07 22:54	0°♌	
	16313 Apr 18 12:23	0°♍		16315 Oct 02 09:21	0°♍	
	16313 May 14 05:48	0°♄		16315 Oct 27 05:57	0°♄	
	16313 Jun 08 06:41	0°♊		16315 Nov 21 23:02	0°♋	
desc. node	16313 Jun 18 21:29	12°♊53'32	desc. node	16315 Dec 04 08:40	13°♋51'30	
	16313 Jul 02 21:05	0°♉		16315 Dec 19 13:37	0°♋	
	16313 Jul 27 04:14	0°♌	evening max el	16315 Dec 26 19:53	7°♋15'39 46°15'09	
	16313 Aug 20 06:41	0°♍		16316 Jan 22 23:53	0°♍	
morning set	16313 Sep 04 10:06	18°♍55'16	greatest brilliancy	16316 Feb 04 04:49	6°♍13'25 -4.8m	
	16313 Sep 13 06:39	0°♋	retrograde	16316 Feb 14 04:27	8°♍02'39	
	16313 Oct 07 05:38	0°♌	evening set	16316 Mar 01 08:21	3°♍02'53	
asc. node	16313 Oct 09 15:42	3°♌01'49		16316 Mar 06 08:42	30°♋♋	
			inferior conj	16316 Mar 06 14:25	29°♋51'00 -4°38'58	
superior conj	16313 Oct 14 00:23	8°♌29'32 0°10'43	minimum elong	16316 Mar 06 23:39	29°♋36'31 4°36'28	
minimum elong	16313 Oct 13 21:38	8°♌20'56 0°10'57	min. Earth dist.	16316 Mar 06 19:40	29°♋42'47 0.28541 AU	
behind sun begin	16313 Oct 13 03:07	7°♌22'57	morning rise	16316 Mar 12 14:53	26°♋13'07	
behind sun end	16313 Oct 14 16:09	9°♌18'55	asc. node	16316 Mar 26 07:45	21°♋45'07	
max. Earth dist.	16313 Oct 14 16:08	9°♌18'53 1.71640 AU	direct	16316 Mar 27 20:29	21°♋42'20	
	16313 Oct 31 04:40	0°♍	greatest brilliancy	16316 Apr 07 13:46	23°♋47'59 -4.8m	
evening rise	16313 Nov 21 14:50	26°♍46'27		16316 Apr 19 08:21	0°♍	
	16313 Nov 24 04:53	0°♄	morning max el	16316 May 16 01:32	22°♍32'33 45°57'12	
	16313 Dec 18 08:04	0°♋		16316 May 23 11:57	0°♄	
	16314 Jan 11 16:34	0°♋		16316 Jun 20 02:59	0°♊	
desc. node	16314 Jan 29 07:51	21°♋29'45		16316 Jul 15 22:50	0°♉	
	16314 Feb 05 08:35	0°♍	desc. node	16316 Jul 16 08:42	0°♉29'18	

	16316 Aug 09 22:00	0°♈	evening max el	16319 Mar 07 17:25	16°♈09'14	46°00'52
	16316 Sep 03 09:54	0°♍		16319 Mar 23 01:03	0°♈	
	16316 Sep 27 15:50	0°♊	greatest brilliancy	16319 Apr 15 18:59	14°♈54'18	-4.8m
	16316 Oct 21 18:54	0°♋	asc. node	16319 Apr 23 17:59	16°♈42'36	
asc. node	16316 Nov 06 04:45	19°♋11'53	retrograde	16319 Apr 25 22:46	16°♈48'18	
	16316 Nov 14 20:38	0°♌	evening set	16319 May 11 07:49	12°♈09'19	
morning set	16316 Nov 16 16:12	2°♌15'51	inferior conj	16319 May 17 01:44	8°♈40'29	5°26'11
	16316 Dec 08 21:56	0°♍	minimum elong	16319 May 16 15:39	8°♈56'20	5°23'04
			min. Earth dist.	16319 May 16 22:09	8°♈46'08	0.28284 AU
superior conj	16316 Dec 24 19:34	19°♍49'02 1°25'24	morning rise	16319 May 21 23:24	5°♈40'31	
minimum elong	16316 Dec 24 15:32	19°♍36'29 1°26'02	direct	16319 Jun 07 05:47	0°♈30'19	
max. Earth dist.	16316 Dec 27 03:13	22°♍42'15 1.72348 AU	greatest brilliancy	16319 Jun 17 10:04	2°♈26'41	-4.8m
	16317 Jan 01 23:59	0°♎		16319 Jul 24 16:18	0°♎	
	16317 Jan 26 04:23	0°♏	morning max el	16319 Jul 27 07:30	2°♎35'51	46°38'22
evening rise	16317 Jan 31 05:55	6°♏15'30	desc. node	16319 Aug 13 19:11	20°♎55'29	
	16317 Feb 19 12:28	0°♐		16319 Aug 22 00:00	0°♎	
desc. node	16317 Feb 25 21:23	7°♐49'07		16319 Sep 16 23:49	0°♏	
	16317 Mar 16 00:41	0°♑		16319 Oct 12 01:50	0°♊	
	16317 Apr 09 16:43	0°♈		16319 Nov 05 17:46	0°♋	
	16317 May 04 12:55	0°♎		16319 Nov 30 04:25	0°♌	
	16317 May 29 16:00	0°♈	asc. node	16319 Dec 04 17:08	5°♌34'49	
asc. node	16317 Jun 18 14:17	23°♈20'08		16319 Dec 24 11:48	0°♍	
	16317 Jun 24 09:18	0°♍		16320 Jan 17 17:23	0°♎	
	16317 Jul 21 11:20	0°♊	morning set	16320 Jan 27 09:17	11°♎58'06	
evening max el	16317 Aug 01 14:36	11°♊27'38 46°34'40		16320 Feb 10 22:45	0°♏	
	16317 Aug 22 01:29	0°♋				
greatest brilliancy	16317 Sep 10 08:59	11°♋42'32 -4.9m	superior conj	16320 Mar 04 09:32	27°♏45'07	0°48'27
retrograde	16317 Sep 20 17:29	13°♋43'23	minimum elong	16320 Mar 04 18:47	28°♏13'41	0°48'10
evening set	16317 Oct 05 04:01	9°♋38'15	max. Earth dist.	16320 Mar 05 23:11	29°♏41'23	1.73054 AU
desc. node	16317 Oct 08 13:08	7°♋44'14		16320 Mar 06 05:13	0°♐	
inferior conj	16317 Oct 11 11:17	5°♋58'46 -0°45'59	desc. node	16320 Mar 25 10:59	23°♐43'51	
minimum elong	16317 Oct 11 09:29	6°♋01'30 0°45'03		16320 Mar 30 13:06	0°♑	
min. Earth dist.	16317 Oct 11 08:09	6°♋03'32 0.26958 AU	evening rise	16320 Apr 11 08:26	14°♑32'27	
morning rise	16317 Oct 17 15:02	2°♋23'35		16320 Apr 23 21:49	0°♈	
	16317 Oct 22 20:22	30°♋♊		16320 May 18 06:43	0°♎	
direct	16317 Nov 01 04:39	28°♊14'31		16320 Jun 11 16:07	0°♈	
	16317 Nov 10 22:59	0°♋		16320 Jul 06 03:42	0°♍	
greatest brilliancy	16317 Nov 11 02:33	0°♋03'05 -4.8m	asc. node	16320 Jul 16 02:55	12°♍09'04	
morning max el	16317 Dec 20 20:54	29°♋27'19 46°20'59		16320 Jul 30 20:33	0°♊	
	16317 Dec 21 10:16	0°♌		16320 Aug 25 00:09	0°♋	
	16318 Jan 18 22:43	0°♍		16320 Sep 20 02:36	0°♌	
asc. node	16318 Jan 29 13:44	11°♍54'45	evening max el	16320 Oct 12 22:56	24°♌19'16	46°37'09
	16318 Feb 14 07:24	0°♎		16320 Oct 18 18:12	0°♍	
	16318 Mar 11 17:33	0°♏	desc. node	16320 Nov 04 23:31	14°♍51'27	
	16318 Apr 05 15:57	0°♐	greatest brilliancy	16320 Nov 21 09:02	24°♍24'04	-4.8m
	16318 Apr 30 07:31	0°♑	retrograde	16320 Dec 02 03:12	26°♍31'33	
desc. node	16318 May 21 11:20	25°♑57'16	evening set	16320 Dec 20 02:33	20°♍24'44	
	16318 May 24 18:10	0°♈	min. Earth dist.	16320 Dec 22 16:58	18°♍49'22	0.28177 AU
	16318 Jun 18 00:31	0°♎	inferior conj	16320 Dec 23 08:36	18°♍25'12	-8°49'34
morning set	16318 Jun 19 17:57	2°♎08'29	minimum elong	16320 Dec 23 04:06	18°♍32'10	8°48'37
	16318 Jul 12 03:13	0°♈	morning rise	16320 Dec 26 05:50	16°♍39'26	
max. Earth dist.	16318 Jul 27 01:19	18°♈37'54 1.71815 AU	direct	16321 Jan 13 11:38	10°♍28'34	
			greatest brilliancy	16321 Jan 23 03:19	12°♍11'13	-4.8m
superior conj	16318 Jul 29 07:12	21°♈26'20 -1°22'49		16321 Feb 19 16:31	0°♎	
minimum elong	16318 Jul 29 14:47	21°♈50'02 1°23'10	asc. node	16321 Feb 25 23:45	5°♎39'02	
	16318 Aug 05 03:28	0°♍	morning max el	16321 Mar 03 14:09	10°♎57'50	45°46'40
	16318 Aug 29 02:41	0°♊		16321 Mar 22 03:50	0°♏	
evening rise	16318 Sep 07 08:00	11°♊32'38		16321 Apr 18 02:17	0°♐	
asc. node	16318 Sep 11 03:58	16°♊20'18		16321 May 13 18:11	0°♑	
	16318 Sep 22 02:08	0°♋		16321 Jun 07 18:19	0°♈	
	16318 Oct 16 03:04	0°♌	desc. node	16321 Jun 17 23:23	12°♈24'26	
	16318 Nov 09 07:30	0°♍		16321 Jul 02 08:19	0°♎	
	16318 Dec 03 18:51	0°♎		16321 Jul 26 15:15	0°♈	
	16318 Dec 28 18:15	0°♏		16321 Aug 19 17:35	0°♍	
desc. node	16318 Dec 31 20:49	3°♏40'31	morning set	16321 Sep 01 22:37	16°♏30'29	
	16319 Jan 23 13:15	0°♐		16321 Sep 12 17:27	0°♊	
	16319 Feb 19 19:25	0°♑		16321 Oct 06 16:21	0°♋	

asc. node	16321 Oct 08 17:26	2°♍33'39		minimum elong	16324 Mar 04 15:37	27°♋24'12	4°54'18
				min. Earth dist.	16324 Mar 04 11:30	27°♋30'38	0.28550 AU
superior conj	16321 Oct 11 13:09	6°♍05'42	0°06'58	morning rise	16324 Mar 10 04:34	24°♋04'09	
minimum elong	16321 Oct 11 11:20	6°♍00'01	0°07'12	direct	16324 Mar 25 11:37	19°♋30'25	
behind sun begin	16321 Oct 10 12:50	4°♍49'32		asc. node	16324 Mar 25 09:38	19°♋30'26	
behind sun end	16321 Oct 12 09:51	7°♍10'30		greatest brilliancy	16324 Apr 05 06:00	21°♋36'59	-4.8m
max. Earth dist.	16321 Oct 12 03:07	6°♍49'25	1.71624 AU		16324 Apr 20 04:48	0°♑	
	16321 Oct 30 15:21	0°♊		morning max el	16324 May 13 16:42	20°♑19'12	45°56'17
evening rise	16321 Nov 19 05:22	24°♊28'36			16324 May 23 06:54	0°♊	
	16321 Nov 23 15:37	0°♊			16324 Jun 19 17:24	0°♊	
	16321 Dec 17 18:55	0°♊		desc. node	16324 Jul 15 10:42	29°♊57'46	
	16322 Jan 11 03:37	0°♋			16324 Jul 15 11:27	0°♋	
desc. node	16322 Jan 28 09:48	21°♋01'23			16324 Aug 09 09:44	0°♌	
	16322 Feb 04 20:02	0°♑			16324 Sep 02 21:08	0°♍	
	16322 Mar 01 22:12	0°♊			16324 Sep 27 02:46	0°♌	
	16322 Mar 27 13:23	0°♊			16324 Oct 21 05:39	0°♍	
	16322 Apr 23 03:10	0°♋		asc. node	16324 Nov 05 06:35	18°♍44'27	
evening max el	16322 May 18 07:22	26°♋21'15	46°11'15	morning set	16324 Nov 14 05:59	29°♍56'06	
asc. node	16322 May 21 04:42	29°♋09'35			16324 Nov 14 07:14	0°♊	
	16322 May 22 01:45	0°♌			16324 Dec 08 08:25	0°♊	
greatest brilliancy	16322 Jun 27 10:20	26°♌01'08	-4.8m				
retrograde	16322 Jul 06 19:30	27°♌39'48		superior conj	16324 Dec 22 11:04	17°♊35'23	1°24'38
evening set	16322 Jul 24 16:46	21°♌35'00		minimum elong	16324 Dec 22 06:15	17°♊20'25	1°25'15
inferior conj	16322 Jul 27 14:33	19°♌47'28	8°41'52	max. Earth dist.	16324 Dec 24 16:09	20°♊20'39	1.72317 AU
minimum elong	16322 Jul 27 20:52	19°♌37'37	8°40'48		16325 Jan 01 10:23	0°♋	
min. Earth dist.	16322 Jul 28 06:35	19°♌22'27	0.27647 AU		16325 Jan 25 14:48	0°♋	
morning rise	16322 Jul 31 00:50	17°♌40'41		evening rise	16325 Jan 28 21:28	4°♋03'03	
direct	16322 Aug 17 13:46	11°♌45'43			16325 Feb 18 23:02	0°♑	
greatest brilliancy	16322 Aug 27 19:11	13°♌43'24	-4.9m	desc. node	16325 Feb 24 23:10	7°♑22'05	
desc. node	16322 Sep 10 05:00	21°♌02'17			16325 Mar 15 11:29	0°♊	
	16322 Sep 21 14:53	0°♍			16325 Apr 09 03:54	0°♊	
morning max el	16322 Oct 07 00:06	14°♍27'06	46°54'54		16325 May 04 00:42	0°♋	
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	16322 Dec 13 06:40	0°♊			16325 Jun 23 23:56	0°♍	
asc. node	16323 Jan 01 04:51	22°♊37'36			16325 Jul 21 06:23	0°♌	
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	16323 Feb 25 12:33	0°♋		greatest brilliancy	16325 Sep 07 22:29	9°♍19'45	-4.9m
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morning set	16323 Apr 06 11:37	19°♑09'37		evening set	16325 Oct 02 17:31	7°♍14'35	
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desc. node	16323 Apr 23 00:19	9°♊32'31		inferior conj	16325 Oct 09 00:07	3°♍35'59	-0°21'44
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max. Earth dist.	16323 May 12 18:10	3°♊56'16	1.72778 AU	min. Earth dist.	16325 Oct 08 22:01	3°♍39'10	0.26949 AU
				morning rise	16325 Oct 15 05:09	29°♌59'29	
superior conj	16323 May 14 22:03	6°♊36'45	-0°50'15		16325 Oct 15 04:45	30°♌	
minimum elong	16323 May 14 11:55	6°♊05'25	0°50'25	direct	16325 Oct 29 17:51	25°♌51'30	
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evening rise	16323 Jun 22 14:26	24°♋36'08			16325 Nov 14 01:53	0°♍	
	16323 Jun 26 22:37	0°♌		morning max el	16325 Dec 18 11:39	27°♍10'36	46°22'26
	16323 Jul 21 01:16	0°♍			16325 Dec 21 08:23	0°♊	
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	16323 Oct 26 18:52	0°♊			16326 Apr 05 03:10	0°♑	
	16323 Nov 21 13:50	0°♋			16326 Apr 29 18:21	0°♊	
desc. node	16323 Dec 03 10:40	13°♋12'07		desc. node	16326 May 20 13:11	25°♊30'18	
	16323 Dec 19 09:23	0°♋			16326 May 24 04:47	0°♊	
evening max el	16323 Dec 24 09:29	4°♋58'20	46°16'03	morning set	16326 Jun 17 06:52	29°♊47'08	
	16324 Jan 24 05:47	0°♑			16326 Jun 17 11:01	0°♋	
greatest brilliancy	16324 Feb 01 20:20	4°♑01'33	-4.8m		16326 Jul 11 13:41	0°♌	
retrograde	16324 Feb 11 19:45	5°♑51'05		max. Earth dist.	16326 Jul 24 14:09	16°♌15'19	1.71836 AU
evening set	16324 Feb 28 02:33	0°♑47'01					
	16324 Feb 29 10:40	30°♋		superior conj	16326 Jul 26 19:50	19°♌03'05	-1°24'02
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


































































































































	16326 Aug 04 13:55	0°♎			16329 Feb 19 20:31	0°♏		
	16326 Aug 28 13:11	0°♏		asc. node	16329 Feb 25 01:37	4°♏46'25		
evening rise	16326 Sep 04 20:30	9°♏08'40		morning max el	16329 Mar 01 03:25	8°♏39'47	45°47'05	
asc. node	16326 Sep 10 05:42	15°♏52'48			16329 Mar 21 20:42	0°♐		
	16326 Sep 21 12:42	0°♐			16329 Apr 17 15:57	0°♐		
	16326 Oct 15 13:48	0°♑			16329 May 13 06:26	0°♑		
	16326 Nov 08 18:30	0°♒			16329 Jun 07 05:49	0°♒		
	16326 Dec 03 06:21	0°♓		desc. node	16329 Jun 17 01:21	11°♒55'55		
	16326 Dec 28 06:35	0°♐			16329 Jul 01 19:25	0°♓		
desc. node	16326 Dec 30 22:42	3°♐09'20			16329 Jul 26 02:08	0°♒		
	16327 Jan 23 03:12	0°♐			16329 Aug 19 04:20	0°♎		
	16327 Feb 19 13:05	0°♑		morning set	16329 Aug 30 11:01	14°♎05'46		
evening max el	16327 Mar 05 09:34	13°♑59'01	46°01'01		16329 Sep 12 04:06	0°♏		
	16327 Mar 23 09:55	0°♒			16329 Oct 06 02:58	0°♐		
greatest brilliancy	16327 Apr 13 09:37	12°♒40'21	-4.8m	asc. node	16329 Oct 07 19:17	2°♐06'14		
asc. node	16327 Apr 22 19:54	14°♒33'39						
retrograde	16327 Apr 23 14:02	14°♒34'19		superior conj	16329 Oct 09 02:02	3°♐42'32	0°03'11	
evening set	16327 May 08 20:48	9°♒58'45		minimum elong	16329 Oct 09 01:09	3°♐39'46	0°03'27	
inferior conj	16327 May 14 16:58	6°♒26'22	5°08'37	behind sun begin	16329 Oct 08 00:42	2°♐23'12		
minimum elong	16327 May 14 07:11	6°♒41'45	5°05'30	behind sun end	16329 Oct 10 01:36	4°♐56'21		
min. Earth dist.	16327 May 14 13:05	6°♒32'28	0.28288 AU	max. Earth dist.	16329 Oct 09 11:15	4°♐11'24	1.71609 AU	
morning rise	16327 May 19 17:33	3°♒22'05			16329 Oct 30 01:57	0°♑		
	16327 May 26 16:34	30°♒♑		evening rise	16329 Nov 16 20:04	22°♑11'30		
direct	16327 Jun 04 21:36	28°♑16'29			16329 Nov 23 02:14	0°♒		
	16327 Jun 14 11:25	0°♒			16329 Dec 17 05:38	0°♓		
greatest brilliancy	16327 Jun 15 01:10	0°♒12'11	-4.8m		16330 Jan 10 14:34	0°♐		
	16327 Jul 24 14:25	0°♓		desc. node	16330 Jan 27 11:35	20°♐32'43		
morning max el	16327 Jul 24 22:20	0°♓19'41	46°36'58		16330 Feb 04 07:25	0°♐		
desc. node	16327 Aug 12 21:00	20°♓14'13			16330 Mar 01 10:22	0°♑		
	16327 Aug 21 15:36	0°♒			16330 Mar 27 02:57	0°♒		
	16327 Sep 16 13:07	0°♎			16330 Apr 22 19:34	0°♓		
	16327 Oct 11 13:57	0°♏		evening max el	16330 May 15 19:58	23°♓59'13	46°10'32	
	16327 Nov 05 05:12	0°♐		asc. node	16330 May 20 06:42	28°♓16'46		
	16327 Nov 29 15:23	0°♑			16330 May 22 02:35	0°♒		
asc. node	16327 Dec 03 19:06	5°♑07'16		greatest brilliancy	16330 Jun 25 00:06	23°♒41'03	-4.8m	
	16327 Dec 23 22:28	0°♒		retrograde	16330 Jul 04 08:41	25°♒19'38		
	16328 Jan 17 03:52	0°♓		evening set	16330 Jul 22 08:37	19°♒11'01		
morning set	16328 Jan 25 01:47	9°♓48'13		inferior conj	16330 Jul 25 04:23	17°♒26'34	8°48'04	
	16328 Feb 10 09:10	0°♐		minimum elong	16330 Jul 25 09:54	17°♒17'58	8°47'06	
				min. Earth dist.	16330 Jul 25 20:10	17°♒01'59	0.27687 AU	
superior conj	16328 Mar 02 01:40	25°♐34'40	0°51'16	morning rise	16330 Jul 28 11:04	15°♒25'11		
minimum elong	16328 Mar 02 11:11	26°♐04'04	0°51'00	direct	16330 Aug 15 03:13	9°♒23'55		
max. Earth dist.	16328 Mar 03 17:51	27°♐38'44	1.73041 AU	greatest brilliancy	16330 Aug 25 09:38	11°♒22'16	-4.9m	
	16328 Mar 05 15:37	0°♐		desc. node	16330 Sep 09 06:56	19°♒43'59		
desc. node	16328 Mar 24 12:43	23°♐17'10			16330 Sep 21 21:19	0°♎		
	16328 Mar 29 23:32	0°♑		morning max el	16330 Oct 04 13:50	12°♎04'54	46°55'16	
evening rise	16328 Apr 08 23:59	12°♑20'14			16330 Oct 21 15:36	0°♏		
	16328 Apr 23 08:23	0°♒			16330 Nov 17 06:32	0°♐		
	16328 May 17 17:30	0°♓			16330 Dec 12 19:29	0°♑		
	16328 Jun 11 03:15	0°♒		asc. node	16330 Dec 31 06:40	22°♑06'44		
	16328 Jul 05 15:20	0°♎			16331 Jan 06 19:29	0°♒		
asc. node	16328 Jul 15 04:44	11°♎38'28			16331 Jan 31 11:43	0°♓		
	16328 Jul 30 08:58	0°♏			16331 Feb 24 23:26	0°♐		
	16328 Aug 24 13:53	0°♐			16331 Mar 21 08:55	0°♐		
	16328 Sep 19 19:06	0°♑		morning set	16331 Apr 04 03:39	16°♐58'18		
evening max el	16328 Oct 10 13:29	22°♑00'46	46°37'33		16331 Apr 14 17:17	0°♑		
	16328 Oct 18 19:15	0°♒		desc. node	16331 Apr 22 02:13	9°♑05'37		
desc. node	16328 Nov 04 01:31	13°♒39'04			16331 May 09 00:25	0°♒		
greatest brilliancy	16328 Nov 18 23:51	22°♒07'39	-4.8m	max. Earth dist.	16331 May 10 11:52	1°♒49'36	1.72810 AU	
retrograde	16328 Nov 29 17:42	24°♒14'50						
evening set	16328 Dec 17 14:05	18°♒13'26		superior conj	16331 May 12 12:34	4°♒20'12	-0°47'16	
inferior conj	16328 Dec 20 23:05	16°♒09'21	-8°44'57	minimum elong	16331 May 12 02:47	3°♒49'59	0°47'25	
minimum elong	16328 Dec 20 17:47	16°♒17'34	8°43'52		16331 Jun 02 05:48	0°♓		
min. Earth dist.	16328 Dec 20 06:51	16°♒34'29	0.28134 AU	evening rise	16331 Jun 20 03:53	22°♓15'12		
morning rise	16328 Dec 23 21:40	14°♒21'25			16331 Jun 26 09:27	0°♒		
direct	16329 Jan 11 01:51	8°♒13'33			16331 Jul 20 12:15	0°♎		
greatest brilliancy	16329 Jan 20 16:32	9°♒54'58	-4.8m	asc. node	16331 Aug 12 17:52	28°♎52'06		

	16331 Aug 13 15:46	0°♌		morning max el	16333 Dec 16 01:54	24°♍51'19	46°23'54
	16331 Sep 06 21:56	0°♍			16333 Dec 21 06:08	0°♎	
	16331 Oct 01 09:33	0°♏			16334 Jan 18 06:02	0°♐	
	16331 Oct 26 08:05	0°♑		asc. node	16334 Jan 27 17:27	10°♑42'29	
	16331 Nov 21 05:05	0°♒			16334 Feb 13 09:55	0°♓	
desc. node	16331 Dec 02 12:35	12°♓31'26			16334 Mar 10 17:40	0°♈	
	16331 Dec 19 06:05	0°♈			16334 Apr 04 14:45	0°♉	
evening max el	16331 Dec 21 23:54	2°♉42'22	46°17'01		16334 Apr 29 05:33	0°♊	
	16332 Jan 26 02:23	0°♋		desc. node	16334 May 19 15:04	25°♋02'14	
greatest brilliancy	16332 Jan 30 11:14	1°♋48'28	-4.8m		16334 May 23 15:46	0°♌	
retrograde	16332 Feb 09 11:38	3°♋38'56		morning set	16334 Jun 14 19:54	27°♌24'58	
	16332 Feb 23 02:58	30°♌			16334 Jun 16 21:54	0°♍	
evening set	16332 Feb 25 20:49	28°♌30'23			16334 Jul 11 00:34	0°♎	
inferior conj	16332 Mar 01 21:34	25°♌26'44	-5°14'18	max. Earth dist.	16334 Jul 22 01:17	13°♎46'02	1.71864 AU
minimum elong	16332 Mar 02 07:29	25°♌11'13	5°11'41				
min. Earth dist.	16332 Mar 02 02:54	25°♌18'25	0.28560 AU	superior conj	16334 Jul 24 08:21	16°♎38'04	-1°25'05
morning rise	16332 Mar 07 18:05	21°♌54'55		minimum elong	16334 Jul 24 14:15	16°♎56'29	1°25'31
direct	16332 Mar 23 03:05	17°♌17'54			16334 Aug 04 00:52	0°♏	
asc. node	16332 Mar 24 11:33	17°♌20'03			16334 Aug 28 00:12	0°♐	
greatest brilliancy	16332 Apr 02 21:36	19°♌24'50	-4.8m	evening rise	16334 Sep 02 08:29	6°♐41'27	
	16332 Apr 20 20:11	0°♑		asc. node	16334 Sep 09 07:34	15°♐24'08	
morning max el	16332 May 11 08:39	18°♑07'05	45°55'13		16334 Sep 20 23:49	0°♑	
	16332 May 23 01:38	0°♒			16334 Oct 15 01:03	0°♒	
	16332 Jun 19 08:01	0°♓			16334 Nov 08 06:01	0°♓	
desc. node	16332 Jul 14 12:28	29°♓24'33			16334 Dec 02 18:20	0°♈	
	16332 Jul 15 00:23	0°♈		desc. node	16334 Dec 30 00:29	2°♈36'23	
	16332 Aug 08 21:49	0°♉			16335 Jan 22 17:45	0°♉	
	16332 Sep 02 08:42	0°♊			16335 Feb 19 07:43	0°♊	
	16332 Sep 26 14:02	0°♋		evening max el	16335 Mar 03 01:22	11°♋46'38	46°01'09
asc. node	16332 Oct 20 16:42	0°♌			16335 Mar 23 22:40	0°♌	
morning set	16332 Nov 04 08:28	18°♌16'15		greatest brilliancy	16335 Apr 11 00:56	10°♌26'04	-4.8m
	16332 Nov 11 19:43	27°♌35'15		retrograde	16335 Apr 21 04:49	12°♌19'21	
	16332 Nov 13 18:07	0°♍		asc. node	16335 Apr 21 21:55	12°♌18'45	
	16332 Dec 07 19:12	0°♎		evening set	16335 May 06 10:02	7°♌47'01	
superior conj	16332 Dec 20 02:32	15°♎20'33	1°23'44	inferior conj	16335 May 12 08:18	4°♌11'28	4°50'31
minimum elong	16332 Dec 19 20:58	15°♎03'13	1°24'20	minimum elong	16335 May 11 22:52	4°♌26'19	4°47'27
max. Earth dist.	16332 Dec 22 06:45	18°♎03'11	1.72289 AU	min. Earth dist.	16335 May 12 04:30	4°♌17'26	0.28292 AU
	16332 Dec 31 21:08	0°♏		morning rise	16335 May 17 11:39	1°♌02'53	
	16333 Jan 25 01:36	0°♈			16335 May 19 09:04	30°♌	
evening rise	16333 Jan 26 13:07	1°♈49'48		direct	16335 Jun 02 13:06	26°♌01'50	
	16333 Feb 18 09:57	0°♉		greatest brilliancy	16335 Jun 12 16:43	27°♌57'13	-4.8m
desc. node	16333 Feb 24 00:56	6°♉53'59			16335 Jun 17 10:28	0°♊	
	16333 Mar 14 22:38	0°♊		morning max el	16335 Jul 22 12:12	28°♊00'02	46°35'29
	16333 Apr 08 15:27	0°♋			16335 Jul 24 12:06	0°♋	
	16333 May 03 12:53	0°♌		desc. node	16335 Aug 11 22:57	19°♋32'39	
	16333 May 28 18:03	0°♍			16335 Aug 21 07:23	0°♍	
asc. node	16333 Jun 16 18:04	22°♍08'02			16335 Sep 16 02:46	0°♎	
	16333 Jun 23 15:18	0°♏			16335 Oct 11 02:32	0°♏	
	16333 Jul 21 02:43	0°♐			16335 Nov 04 17:06	0°♐	
evening max el	16333 Jul 27 18:46	6°♐46'23	46°33'34		16335 Nov 29 02:49	0°♑	
	16333 Aug 23 15:24	0°♑		asc. node	16335 Dec 02 20:54	4°♑37'43	
greatest brilliancy	16333 Sep 05 11:58	6°♑54'56	-4.9m		16335 Dec 23 09:34	0°♒	
retrograde	16333 Sep 15 20:44	8°♑55'18			16336 Jan 16 14:46	0°♓	
evening set	16333 Sep 30 07:04	4°♒48'30		morning set	16336 Jan 22 18:05	7°♓36'29	
inferior conj	16333 Oct 06 12:42	1°♒10'54	0°02'48		16336 Feb 09 19:57	0°♈	
minimum elong	16333 Oct 06 12:49	1°♒10'43	0°03'03				
transit middle	16333 Oct 06 12:49	1°♒10'43	0°03'03	superior conj	16336 Feb 28 17:52	23°♈23'18	0°54'00
transit begin	16333 Oct 06 08:48	1°♒16'48		minimum elong	16336 Feb 29 03:36	23°♈53'21	0°53'45
transit end	16333 Oct 06 16:50	1°♒04'37		max. Earth dist.	16336 Mar 01 11:16	25°♈31'08	1.73027 AU
min. Earth dist.	16333 Oct 06 11:33	1°♒12'37	0.26937 AU		16336 Mar 05 02:22	0°♉	
desc. node	16333 Oct 06 16:58	1°♒04'25		desc. node	16336 Mar 23 14:39	22°♉49'51	
	16333 Oct 08 11:38	30°♒			16336 Mar 29 10:21	0°♊	
morning rise	16333 Oct 12 18:46	27°♒33'13		evening rise	16336 Apr 06 15:41	10°♊07'21	
direct	16333 Oct 27 07:00	23°♒26'27			16336 Apr 22 19:20	0°♋	
greatest brilliancy	16333 Nov 06 04:26	25°♒15'42	-4.8m		16336 May 17 04:41	0°♌	
	16333 Nov 15 23:06	0°♓			16336 Jun 10 14:45	0°♍	

	16336 Jul 05 03:20	0°♍			16339 Jan 06 07:21	0°♊		
asc. node	16336 Jul 14 06:33	11°♍06'45			16339 Jan 30 23:02	0°♊		
	16336 Jul 29 21:46	0°♌			16339 Feb 24 10:23	0°♋		
	16336 Aug 24 04:08	0°♍			16339 Mar 20 19:39	0°♌		
	16336 Sep 19 12:25	0°♎		morning set	16339 Apr 01 19:42	14°♌46'57		
evening max el	16336 Oct 08 03:07	19°♎38'25	46°37'45		16339 Apr 14 03:55	0°♏		
	16336 Oct 18 22:26	0°♏		desc. node	16339 Apr 21 03:58	8°♏38'18		
desc. node	16336 Nov 03 03:26	12°♏22'38			16339 May 08 11:03	0°♐		
greatest brilliancy	16336 Nov 16 14:52	19°♏49'22	-4.8m	max. Earth dist.	16339 May 08 07:32	29°♏49'10	1.72838 AU	
retrograde	16336 Nov 27 07:47	21°♏56'06						
evening set	16336 Dec 15 01:04	16°♏00'32		superior conj	16339 May 10 03:03	2°♐03'41	-0°44'11	
min. Earth dist.	16336 Dec 17 20:56	14°♏17'03	0.28088 AU	minimum elong	16339 May 09 17:42	1°♐34'48	0°44'21	
inferior conj	16336 Dec 18 13:24	13°♏51'35	-8°39'19		16339 Jun 01 16:30	0°♑		
minimum elong	16336 Dec 18 07:18	14°♏01'01	8°38'07	evening rise	16339 Jun 17 17:33	19°♑55'07		
morning rise	16336 Dec 21 13:42	12°♏01'01			16339 Jun 25 20:15	0°♒		
direct	16337 Jan 08 15:21	5°♏56'28			16339 Jul 19 23:14	0°♓		
greatest brilliancy	16337 Jan 18 06:12	7°♏37'33	-4.8m	asc. node	16339 Aug 11 19:48	28°♓23'17		
	16337 Feb 19 23:19	0°♊			16339 Aug 13 03:00	0°♊		
asc. node	16337 Feb 24 03:37	3°♊53'59			16339 Sep 06 09:31	0°♋		
morning max el	16337 Feb 26 16:20	6°♊19'44	45°47'45		16339 Sep 30 21:42	0°♌		
	16337 Mar 21 13:31	0°♋			16339 Oct 25 21:15	0°♍		
	16337 Apr 17 05:45	0°♌			16339 Nov 20 20:22	0°♎		
	16337 May 12 18:52	0°♏		desc. node	16339 Dec 01 14:21	11°♎50'20		
	16337 Jun 06 17:32	0°♐			16339 Dec 19 03:20	0°♋		
desc. node	16337 Jun 16 03:03	11°♐25'56		evening max el	16339 Dec 19 15:15	0°♋29'10	46°17'49	
	16337 Jul 01 06:44	0°♑		greatest brilliancy	16340 Jan 28 01:52	29°♋35'25	-4.8m	
	16337 Jul 25 13:13	0°♒			16340 Jan 29 07:21	0°♌		
	16337 Aug 18 15:16	0°♓		retrograde	16340 Feb 07 03:43	1°♌26'51		
morning set	16337 Aug 27 23:45	11°♓41'26			16340 Feb 15 15:18	30°♌		
	16337 Sep 11 14:56	0°♊		evening set	16340 Feb 23 15:10	26°♌13'56		
	16337 Oct 05 13:45	0°♋		inferior conj	16340 Feb 28 13:06	23°♌14'24	-5°31'13	
				minimum elong	16340 Feb 28 23:18	22°♌58'28	5°28'36	
superior conj	16337 Oct 06 15:06	1°♌19'22	-0°00'38	min. Earth dist.	16340 Feb 28 18:00	23°♌06'43	0.28570 AU	
minimum elong	16337 Oct 06 15:09	1°♌19'32	0°00'19	morning rise	16340 Mar 05 07:24	19°♌46'04		
behind sun begin	16337 Oct 05 14:19	0°♌01'46		direct	16340 Mar 20 18:56	15°♌05'43		
behind sun end	16337 Oct 07 15:59	2°♌37'17		asc. node	16340 Mar 23 13:32	15°♌14'43		
asc. node	16337 Oct 06 21:10	1°♌38'24		greatest brilliancy	16340 Mar 31 12:39	17°♌12'17	-4.8m	
max. Earth dist.	16337 Oct 06 19:21	1°♌32'41	1.71602 AU		16340 Apr 21 07:26	0°♌		
	16337 Oct 29 12:46	0°♎		morning max el	16340 May 09 01:00	15°♌56'30	45°54'10	
evening rise	16337 Nov 14 10:44	19°♎53'39			16340 May 22 19:43	0°♏		
	16337 Nov 22 13:07	0°♏			16340 Jun 18 22:15	0°♐		
	16337 Dec 16 16:38	0°♊		desc. node	16340 Jul 13 14:23	28°♐52'36		
	16338 Jan 10 01:48	0°♋			16340 Jul 14 13:01	0°♑		
desc. node	16338 Jan 26 13:23	20°♋03'21			16340 Aug 08 09:37	0°♒		
	16338 Feb 03 19:05	0°♌			16340 Sep 01 20:02	0°♓		
	16338 Feb 28 22:48	0°♏			16340 Sep 26 01:04	0°♊		
	16338 Mar 26 16:49	0°♐			16340 Oct 20 03:31	0°♋		
	16338 Apr 22 12:27	0°♑		asc. node	16340 Nov 03 10:13	17°♋48'26		
evening max el	16338 May 13 09:12	21°♑38'32	46°09'54	morning set	16340 Nov 09 09:44	25°♋16'03		
asc. node	16338 May 19 08:32	27°♑22'06			16340 Nov 13 04:45	0°♌		
	16338 May 22 04:56	0°♒			16340 Dec 07 05:42	0°♍		
greatest brilliancy	16338 Jun 22 13:27	21°♒20'28	-4.8m					
retrograde	16338 Jul 01 22:30	22°♒59'41		superior conj	16340 Dec 17 18:12	13°♏07'09	1°22'42	
evening set	16338 Jul 20 00:11	16°♒47'38		minimum elong	16340 Dec 17 11:56	12°♏47'38	1°23'17	
inferior conj	16338 Jul 22 18:20	15°♒05'44	8°53'12	max. Earth dist.	16340 Dec 19 23:50	15°♏54'15	1.72259 AU	
minimum elong	16338 Jul 22 23:02	14°♒58'25	8°52'22		16340 Dec 31 07:35	0°♎		
min. Earth dist.	16338 Jul 23 09:36	14°♒41'59	0.27726 AU	evening rise	16341 Jan 24 04:57	29°♎37'53		
morning rise	16338 Jul 25 21:45	13°♒09'23			16341 Jan 24 12:06	0°♋		
direct	16338 Aug 12 17:06	7°♒02'14			16341 Feb 17 20:37	0°♌		
greatest brilliancy	16338 Aug 22 23:49	9°♒01'04	-4.9m	desc. node	16341 Feb 23 02:52	6°♌27'05		
desc. node	16338 Sep 08 08:52	18°♒28'09			16341 Mar 14 09:33	0°♏		
	16338 Sep 22 01:40	0°♓			16341 Apr 08 02:46	0°♐		
morning max el	16338 Oct 02 04:37	9°♓45'26	46°55'41		16341 May 03 00:52	0°♑		
	16338 Oct 21 09:09	0°♊			16341 May 28 07:10	0°♒		
	16338 Nov 16 20:50	0°♋		asc. node	16341 Jun 15 19:56	21°♒31'39		
	16338 Dec 12 08:15	0°♌			16341 Jun 23 06:35	0°♓		
asc. node	16338 Dec 30 08:29	21°♌35'51			16341 Jul 20 23:23	0°♊		

evening max el	16341 Jul 25 09:19	4° Ω 27'03	46°32'51		16344 Jan 16 01:17	0° \approx	
	16341 Aug 24 21:39	0° \mathbb{M}		morning set	16344 Jan 20 10:21	5° \approx 25'39	
greatest brilliancy	16341 Sep 03 02:00	4° \mathbb{M} 31'48	-4.9m		16344 Feb 09 06:21	0° \mathbb{H}	
retrograde	16341 Sep 13 09:55	6° \mathbb{M} 30'47					
evening set	16341 Sep 27 20:54	2° \mathbb{M} 23'12		superior conj	16344 Feb 26 10:14	21° \mathbb{H} 13'44	0°56'38
	16341 Oct 02 00:59	30° \mathbb{R} Ω		minimum elong	16344 Feb 26 20:08	21° \mathbb{H} 44'17	0°56'25
inferior conj	16341 Oct 04 01:18	28° Ω 46'49	0°27'20	max. Earth dist.	16344 Feb 28 03:55	23° \mathbb{H} 22'28	1.73010 AU
minimum elong	16341 Oct 04 02:24	28° Ω 45'09	0°27'13		16344 Mar 04 12:43	0° Υ	
min. Earth dist.	16341 Oct 04 01:24	28° Ω 46'40	0.26927 AU	desc. node	16344 Mar 22 16:24	22° Υ 23'19	
desc. node	16341 Oct 05 18:55	27° Ω 43'48			16344 Mar 28 20:44	0° \mathcal{B}	
morning rise	16341 Oct 10 08:07	25° Ω 07'58		evening rise	16344 Apr 04 07:35	7° \mathcal{B} 56'29	
direct	16341 Oct 24 20:04	21° Ω 02'26			16344 Apr 22 05:52	0° \mathbb{I}	
greatest brilliancy	16341 Nov 03 17:16	22° Ω 51'35	-4.8m		16344 May 16 15:29	0° \mathcal{C}	
	16341 Nov 17 05:27	0° \mathbb{M}			16344 Jun 10 01:56	0° Ω	
morning max el	16341 Dec 13 15:27	22° \mathbb{M} 31'18	46°25'28		16344 Jul 04 15:02	0° \mathbb{M}	
	16341 Dec 21 02:39	0° \mathcal{X}		asc. node	16344 Jul 13 08:28	10° \mathbb{M} 36'11	
	16342 Jan 17 21:06	0° \mathcal{Z}			16344 Jul 29 10:19	0° Ω	
asc. node	16342 Jan 26 19:28	10° \mathcal{Z} 07'55			16344 Aug 23 18:11	0° \mathbb{M}	
	16342 Feb 12 22:47	0° \approx			16344 Sep 19 05:42	0° \mathcal{X}	
	16342 Mar 10 05:26	0° \mathbb{H}		evening max el	16344 Oct 05 16:13	17° \mathcal{X} 15'52	46°38'05
	16342 Apr 04 01:55	0° Υ			16344 Oct 19 02:51	0° \mathcal{Z}	
	16342 Apr 28 16:23	0° \mathcal{B}		desc. node	16344 Nov 02 05:15	11° \mathcal{Z} 04'46	
desc. node	16342 May 18 16:50	24° \mathcal{B} 34'52		greatest brilliancy	16344 Nov 14 05:22	17° \mathcal{Z} 31'22	-4.8m
	16342 May 23 02:24	0° \mathbb{I}		retrograde	16344 Nov 24 21:57	19° \mathcal{Z} 38'25	
morning set	16342 Jun 12 08:55	25° \mathbb{I} 03'49		evening set	16344 Dec 12 11:42	13° \mathcal{Z} 48'38	
	16342 Jun 16 08:27	0° \mathcal{C}		min. Earth dist.	16344 Dec 15 10:55	12° \mathcal{Z} 00'25	0.28044 AU
	16342 Jul 10 11:05	0° Ω		inferior conj	16344 Dec 16 03:37	11° \mathcal{Z} 34'36	-8°32'49
max. Earth dist.	16342 Jul 19 10:26	11° Ω 11'56	1.71891 AU	minimum elong	16344 Dec 15 20:45	11° \mathcal{Z} 45'14	8°31'28
				morning rise	16344 Dec 19 05:58	9° \mathcal{Z} 41'05	
superior conj	16342 Jul 21 20:56	14° Ω 14'34	-1°25'58	direct	16345 Jan 06 04:33	3° \mathcal{Z} 39'55	
minimum elong	16342 Jul 22 01:54	14° Ω 30'06	1°26'27	greatest brilliancy	16345 Jan 15 20:06	5° \mathcal{Z} 21'16	-4.8m
	16342 Aug 03 11:24	0° \mathbb{M}			16345 Feb 20 00:13	0° \approx	
	16342 Aug 27 10:49	0° Ω		asc. node	16345 Feb 23 05:32	3° \approx 03'25	
evening rise	16342 Aug 30 20:27	4° Ω 15'25		morning max el	16345 Feb 24 06:00	4° \approx 02'30	45°48'35
asc. node	16342 Sep 08 09:24	14° Ω 56'30			16345 Mar 21 05:36	0° \mathbb{H}	
	16342 Sep 20 10:33	0° \mathbb{M}			16345 Apr 16 19:01	0° Υ	
	16342 Oct 14 11:57	0° \mathcal{X}			16345 May 12 06:50	0° \mathcal{B}	
	16342 Nov 07 17:12	0° \mathcal{Z}			16345 Jun 06 04:50	0° \mathbb{I}	
	16342 Dec 02 05:59	0° \approx		desc. node	16345 Jun 15 04:59	10° \mathbb{I} 57'49	
	16342 Dec 27 07:57	0° \mathbb{H}			16345 Jun 30 17:41	0° \mathcal{C}	
desc. node	16342 Dec 29 02:25	2° \mathbb{H} 04'58			16345 Jul 24 23:59	0° Ω	
	16343 Jan 22 08:01	0° Υ			16345 Aug 18 01:55	0° \mathbb{M}	
	16343 Feb 19 02:17	0° \mathcal{B}		morning set	16345 Aug 25 12:05	9° \mathbb{M} 16'41	
evening max el	16343 Feb 28 16:16	9° \mathcal{B} 33'28	46°01'13		16345 Sep 11 01:31	0° Ω	
	16343 Mar 24 14:57	0° \mathbb{I}					
greatest brilliancy	16343 Apr 08 16:31	8° \mathbb{I} 13'24	-4.8m	superior conj	16345 Oct 04 03:39	28° Ω 55'21	-0°04'28
retrograde	16343 Apr 18 19:18	10° \mathbb{I} 05'54		minimum elong	16345 Oct 04 04:41	28° Ω 58'37	0°04'09
asc. node	16343 Apr 20 23:44	10° \mathbb{I} 00'13		behind sun begin	16345 Oct 03 04:23	27° Ω 42'28	
evening set	16343 May 03 23:26	5° \mathbb{I} 36'15		behind sun end	16345 Oct 05 05:00	0° \mathbb{M} 14'46	
inferior conj	16343 May 09 23:40	1° \mathbb{I} 58'01	4°31'58	max. Earth dist.	16345 Oct 04 04:40	28° Ω 58'35	1.71595 AU
minimum elong	16343 May 09 14:38	2° \mathbb{I} 12'15	4°28'59		16345 Oct 05 00:17	0° \mathbb{M}	
min. Earth dist.	16343 May 09 20:19	2° \mathbb{I} 03'19	0.28299 AU	asc. node	16345 Oct 05 22:52	1° \mathbb{M} 10'44	
	16343 May 13 03:20	30° \mathbb{R} \mathcal{B}			16345 Oct 28 23:18	0° \mathcal{X}	
morning rise	16343 May 15 05:43	28° \mathcal{B} 45'15		evening rise	16345 Nov 12 01:06	17° \mathcal{X} 35'45	
direct	16343 May 31 04:10	23° \mathcal{B} 48'23			16345 Nov 21 23:42	0° \mathcal{Z}	
greatest brilliancy	16343 Jun 10 09:03	25° \mathcal{B} 44'19	-4.8m		16345 Dec 16 03:21	0° \approx	
	16343 Jun 19 04:01	0° \mathbb{I}			16346 Jan 09 12:46	0° \mathbb{H}	
morning max el	16343 Jul 20 01:46	25° \mathbb{I} 40'38	46°34'04	desc. node	16346 Jan 25 15:17	19° \mathbb{H} 35'01	
	16343 Jul 24 08:37	0° \mathcal{C}			16346 Feb 03 06:32	0° Υ	
desc. node	16343 Aug 11 00:56	18° \mathcal{C} 52'45			16346 Feb 28 11:03	0° \mathcal{B}	
	16343 Aug 20 22:33	0° Ω			16346 Mar 26 06:32	0° \mathbb{I}	
	16343 Sep 15 15:53	0° \mathbb{M}			16346 Apr 22 05:20	0° \mathcal{C}	
	16343 Oct 10 14:37	0° Ω		evening max el	16346 May 10 23:17	19° \mathcal{C} 21'09	46°09'19
	16343 Nov 04 04:33	0° \mathbb{M}		asc. node	16346 May 18 10:26	26° \mathcal{C} 27'30	
	16343 Nov 28 13:50	0° \mathcal{X}			16346 May 22 08:29	0° Ω	
asc. node	16343 Dec 01 22:42	4° \mathcal{X} 09'27		greatest brilliancy	16346 Jun 20 01:57	19° Ω 00'01	-4.8m
	16343 Dec 22 20:17	0° \mathcal{Z}		retrograde	16346 Jun 29 12:34	20° Ω 40'29	

evening set	16346 Jul 17 15:18	14°Ω25'31			16348 Dec 30 18:09	0°≈	
inferior conj	16346 Jul 20 08:13	12°Ω45'31	8°57'22	evening rise	16349 Jan 21 20:20	27°≈24'12	
minimum elong	16346 Jul 20 12:03	12°Ω39'33	8°56'38		16349 Jan 23 22:43	0°℥	
min. Earth dist.	16346 Jul 20 22:31	12°Ω23'16	0.27767 AU		16349 Feb 17 07:23	0°Υ	
morning rise	16346 Jul 23 08:42	10°Ω53'41		desc. node	16349 Feb 22 04:36	5°Υ59'15	
direct	16346 Aug 10 07:35	4°Ω41'17			16349 Mar 13 20:37	0°℞	
greatest brilliancy	16346 Aug 20 13:28	6°Ω39'53	-4.9m		16349 Apr 07 14:16	0°Π	
desc. node	16346 Sep 07 10:47	17°Ω15'02			16349 May 02 13:03	0°☾	
	16346 Sep 22 04:11	0°♍			16349 May 27 20:31	0°Ω	
morning max el	16346 Sep 29 20:07	7°♍28'12	46°55'52	asc. node	16349 Jun 14 21:56	20°Ω55'03	
	16346 Oct 21 02:14	0°♊			16349 Jun 22 22:13	0°♍	
	16346 Nov 16 10:52	0°♋			16349 Jul 20 20:50	0°♊	
	16346 Dec 11 20:47	0°♌		evening max el	16349 Jul 22 23:22	2°♊06'25	46°32'11
asc. node	16346 Dec 29 10:29	21°♌06'11			16349 Aug 26 17:48	0°♋	
	16347 Jan 05 19:00	0°♍		greatest brilliancy	16349 Aug 31 16:38	2°♋09'45	-4.9m
	16347 Jan 30 10:08	0°≈		retrograde	16349 Sep 10 22:38	4°♋06'48	
	16347 Feb 23 21:08	0°℥		evening set	16349 Sep 25 11:08	29°♊58'11	
	16347 Mar 20 06:14	0°Υ			16349 Sep 25 09:46	30°℞♊	
morning set	16347 Mar 30 11:50	12°Υ36'22		inferior conj	16349 Oct 01 14:09	26°♊23'22	0°51'32
	16347 Apr 13 14:25	0°℞		minimum elong	16349 Oct 01 16:12	26°♊20'16	0°51'07
desc. node	16347 Apr 20 05:45	8°℞11'30		min. Earth dist.	16349 Oct 01 15:43	26°♊20'59	0.26920 AU
max. Earth dist.	16347 May 06 03:01	27°℞48'35	1.72859 AU	desc. node	16349 Oct 04 20:43	24°♊25'11	
				morning rise	16349 Oct 07 21:25	22°♊43'26	
superior conj	16347 May 07 17:44	29°℞48'16	-0°41'04	direct	16349 Oct 22 08:58	18°♊38'53	
minimum elong	16347 May 07 08:53	29°℞20'55	0°41'13	greatest brilliancy	16349 Nov 01 06:53	20°♊28'25	-4.9m
	16347 May 07 21:32	0°Π			16349 Nov 18 03:23	0°♋	
	16347 Jun 01 03:01	0°☾		morning max el	16349 Dec 11 04:17	20°♋08'54	46°26'50
evening rise	16347 Jun 15 07:30	17°☾36'32			16349 Dec 20 22:41	0°♌	
	16347 Jun 25 06:52	0°Ω			16350 Jan 17 12:10	0°♍	
	16347 Jul 19 10:03	0°♍		asc. node	16350 Jan 25 21:19	9°♍32'26	
asc. node	16347 Aug 10 21:38	27°♍54'34			16350 Feb 12 11:48	0°≈	
	16347 Aug 12 14:07	0°♊			16350 Mar 09 17:24	0°℥	
	16347 Sep 05 21:03	0°♋			16350 Apr 03 13:17	0°Υ	
	16347 Sep 30 09:52	0°♌			16350 Apr 28 03:24	0°℞	
	16347 Oct 25 10:30	0°♍		desc. node	16350 May 17 18:41	24°℞07'09	
	16347 Nov 20 11:55	0°≈			16350 May 22 13:14	0°Π	
desc. node	16347 Nov 30 16:21	11°≈09'23		morning set	16350 Jun 09 21:50	22°Π41'45	
evening max el	16347 Dec 17 07:08	28°≈17'09	46°18'44		16350 Jun 15 19:13	0°☾	
	16347 Dec 19 01:28	0°℥			16350 Jul 09 21:50	0°Ω	
greatest brilliancy	16348 Jan 25 16:32	27°℥22'20	-4.8m	max. Earth dist.	16350 Jul 16 17:58	8°Ω32'02	1.71917 AU
retrograde	16348 Feb 04 19:28	29°℥14'19					
evening set	16348 Feb 21 09:31	23°℥57'10		superior conj	16350 Jul 19 09:41	11°Ω50'56	-1°26'42
inferior conj	16348 Feb 26 04:29	21°℥01'42	-5°47'42	minimum elong	16350 Jul 19 13:43	12°Ω03'34	1°27'13
minimum elong	16348 Feb 26 14:53	20°℥45'28	5°45'06		16350 Aug 02 22:11	0°♍	
min. Earth dist.	16348 Feb 26 08:51	20°℥54'53	0.28576 AU		16350 Aug 26 21:38	0°♊	
morning rise	16348 Mar 02 20:19	17°℥37'00		evening rise	16350 Aug 28 08:36	1°♊49'24	
direct	16348 Mar 18 10:58	12°℥53'18		asc. node	16350 Sep 07 11:08	14°♊27'59	
asc. node	16348 Mar 22 15:24	13°℥13'38			16350 Sep 19 21:26	0°♋	
greatest brilliancy	16348 Mar 29 03:05	14°℥58'46	-4.8m		16350 Oct 13 23:00	0°♌	
	16348 Apr 21 15:42	0°Υ			16350 Nov 07 04:33	0°♍	
morning max el	16348 May 06 16:58	13°Υ44'54	45°53'11		16350 Dec 01 17:53	0°≈	
	16348 May 22 13:21	0°℞			16350 Dec 26 20:49	0°℥	
	16348 Jun 18 12:17	0°Π		desc. node	16350 Dec 28 04:17	1°℥32'25	
desc. node	16348 Jul 12 16:21	28°Π21'05			16351 Jan 21 22:46	0°Υ	
	16348 Jul 14 01:30	0°☾			16351 Feb 18 21:49	0°℞	
	16348 Aug 07 21:19	0°Ω		evening max el	16351 Feb 26 06:29	7°℞17'38	46°01'22
	16348 Sep 01 07:18	0°♍			16351 Mar 25 13:49	0°Π	
	16348 Sep 25 12:04	0°♊		greatest brilliancy	16351 Apr 06 07:56	5°Π59'27	-4.8m
	16348 Oct 19 14:20	0°♋		retrograde	16351 Apr 16 09:51	7°Π51'36	
asc. node	16348 Nov 02 12:04	17°♋20'43		asc. node	16351 Apr 20 01:40	7°Π35'34	
morning set	16348 Nov 06 23:29	22°♋55'47		evening set	16351 May 01 12:59	3°Π23'59	
	16348 Nov 12 15:27	0°♌			16351 May 07 04:35	30°℞♌	
	16348 Dec 06 16:18	0°♍		inferior conj	16351 May 07 15:01	29°℞43'34	4°13'03
				minimum elong	16351 May 07 06:26	29°℞57'05	4°10'08
superior conj	16348 Dec 15 09:27	10°♍52'02	1°21'32	min. Earth dist.	16351 May 07 12:11	29°℞48'02	0.28308 AU
minimum elong	16348 Dec 15 02:31	10°♍30'27	1°22'05	morning rise	16351 May 12 23:41	26°℞26'55	
max. Earth dist.	16348 Dec 17 16:09	13°♍42'33	1.72228 AU	direct	16351 May 28 18:59	21°℞33'42	

greatest brilliancy	16351 Jun 08 01:50	23°  30'58	-4.8m			16353 Dec 15 14:23	0° 		
	16351 Jun 20 09:03	0° 				16354 Jan 09 00:04	0° 		
morning max el	16351 Jul 17 15:37	23°  21'00	46°32'42	desc. node		16354 Jan 24 17:06	19°  05'26		
	16351 Jul 24 04:51	0° 				16354 Feb 02 18:18	0° 		
desc. node	16351 Aug 10 02:44	18°  01'47				16354 Feb 27 23:42	0° 		
	16351 Aug 20 13:50	0° 				16354 Mar 25 20:46	0° 		
	16351 Sep 15 05:13	0° 				16354 Apr 21 23:03	0° 		
	16351 Oct 10 02:55	0° 		evening max el		16354 May 08 14:19	17°  04'56	46°08'38	
	16351 Nov 03 16:12	0° 		asc. node		16354 May 17 12:27	25°  03'44		
	16351 Nov 28 01:03	0° 				16354 May 22 14:32	0° 		
asc. node	16351 Dec 01 00:39	3°  41'00		greatest brilliancy		16354 Jun 17 14:27	16°  03'38	-4.8m	
	16351 Dec 22 07:13	0° 		retrograde		16354 Jun 27 02:47	18°  02'11		
	16352 Jan 15 12:03	0° 		evening set		16354 Jul 15 06:07	12°  03'15		
morning set	16352 Jan 18 02:40	3°  00'14'08		inferior conj		16354 Jul 17 22:12	10°  02'42'23	9°00'40	
	16352 Feb 08 17:02	0° 		minimum elong		16354 Jul 18 01:09	10°  01'47	8°59'59	
				min. Earth dist.		16354 Jul 18 11:17	10°  04'00	0.27805 AU	
superior conj	16352 Feb 24 02:36	19°  03'04	0°59'10	morning rise		16354 Jul 20 20:06	8°  03'6'27		
minimum elong	16352 Feb 24 12:37	19°  33'59	0°59'00	direct		16354 Aug 07 22:30	2°  01'9'46		
max. Earth dist.	16352 Feb 25 20:13	21°  01'11'36	1.72998 AU	greatest brilliancy		16354 Aug 18 02:44	4°  01'7'20	-4.9m	
	16352 Mar 03 23:23	0° 		desc. node		16354 Sep 06 12:43	16°  03'07		
desc. node	16352 Mar 21 18:11	21°  05'55'43				16354 Sep 22 05:42	0° 		
	16352 Mar 28 07:29	0° 		morning max el		16354 Sep 27 11:26	5°  09'36	46°55'53	
evening rise	16352 Apr 01 23:23	5°  04'44'14				16354 Oct 20 19:20	0° 		
	16352 Apr 21 16:47	0° 				16354 Nov 16 01:07	0° 		
	16352 May 16 02:40	0° 				16354 Dec 11 09:35	0° 		
	16352 Jun 09 13:29	0° 		asc. node		16354 Dec 28 12:16	20°  03'45'54		
	16352 Jul 04 03:10	0° 				16355 Jan 05 06:56	0° 		
asc. node	16352 Jul 12 10:17	10°  04'09				16355 Jan 29 21:29	0° 		
	16352 Jul 28 23:20	0° 				16355 Feb 23 08:09	0° 		
	16352 Aug 23 08:47	0° 				16355 Mar 19 17:03	0° 		
	16352 Sep 18 23:47	0° 		morning set		16355 Mar 28 04:26	10°  05'26'26		
evening max el	16352 Oct 03 05:55	14°  05'53'59	46°38'37			16355 Apr 13 01:10	0° 		
	16352 Oct 19 09:43	0° 		desc. node		16355 Apr 19 07:42	7°  04'42'20		
desc. node	16352 Nov 01 07:16	9°  03'44'14		max. Earth dist.		16355 May 03 21:20	25°  03'43'35	1.72884 AU	
greatest brilliancy	16352 Nov 11 19:27	15°  03'12'22	-4.8m						
retrograde	16352 Nov 22 12:47	17°  03'20'36		superior conj		16355 May 05 08:40	27°  03'32'47	-0°37'54	
evening set	16352 Dec 09 22:22	11°  03'36'29		minimum elong		16355 May 05 00:23	27°  03'07'09	0°38'02	
min. Earth dist.	16352 Dec 13 00:49	9°  03'43'53	0.27998 AU			16355 May 07 08:18	0° 		
inferior conj	16352 Dec 13 18:02	9°  03'17'21	-8°25'32			16355 May 31 13:52	0° 		
minimum elong	16352 Dec 13 10:26	9°  03'29'03	8°24'00	evening rise		16355 Jun 12 21:26	15°  03'16'52		
morning rise	16352 Dec 16 22:41	7°  03'20'38				16355 Jun 24 17:51	0° 		
direct	16353 Jan 03 18:08	1°  03'23'05				16355 Jul 18 21:13	0° 		
greatest brilliancy	16353 Jan 13 09:54	3°  03'04'39	-4.8m	asc. node		16355 Aug 09 23:23	27°  05'04'32		
	16353 Feb 20 00:09	0° 				16355 Aug 12 01:35	0° 		
morning max el	16353 Feb 21 20:42	1°  00'47'05	45°49'17			16355 Sep 05 08:56	0° 		
asc. node	16353 Feb 22 07:24	2°  00'13'03				16355 Sep 29 22:24	0° 		
	16353 Mar 20 21:43	0° 				16355 Oct 25 00:12	0° 		
	16353 Apr 16 08:32	0° 				16355 Nov 20 04:05	0° 		
	16353 May 11 19:09	0° 		desc. node		16355 Nov 29 18:16	10°  00'26'48		
	16353 Jun 05 16:31	0° 		evening max el		16355 Dec 14 23:07	26°  00'44'20	46°19'36	
desc. node	16353 Jun 14 06:55	10°  02'28'35				16355 Dec 19 00:56	0° 		
	16353 Jun 30 05:01	0° 		greatest brilliancy		16356 Jan 23 07:55	25°  00'09'37	-4.8m	
	16353 Jul 24 11:06	0° 		retrograde		16356 Feb 02 11:03	27°  00'01'28		
	16353 Aug 17 12:55	0° 		evening set		16356 Feb 19 04:05	21°  00'04'02'22		
morning set	16353 Aug 23 00:23	6°  05'50'44		inferior conj		16356 Feb 23 20:04	18°  00'04'49'00	-6°03'39	
	16353 Sep 10 12:27	0° 		minimum elong		16356 Feb 24 06:35	18°  00'32'33	6°01'04	
				min. Earth dist.		16356 Feb 23 23:59	18°  00'42'52	0.28577 AU	
superior conj	16353 Oct 01 16:10	26°  02'29'59	-0°08'16	morning rise		16356 Feb 29 09:11	15°  00'04'28'02		
minimum elong	16353 Oct 01 18:11	26°  02'36'19	0°07'56	direct		16356 Mar 16 03:00	10°  00'04'41'08		
behind sun begin	16353 Sep 30 20:07	25°  02'27'10		asc. node		16356 Mar 21 17:20	11°  00'04'17'05		
behind sun end	16353 Oct 02 16:15	27°  02'45'27		greatest brilliancy		16356 Mar 26 17:33	12°  00'04'45'09	-4.8m	
max. Earth dist.	16353 Oct 01 15:55	26°  02'29'13	1.71588 AU			16356 Apr 21 21:37	0° 		
	16353 Oct 04 11:12	0° 		morning max el		16356 May 04 08:05	11°  00'03'30'57	45°52'09	
asc. node	16353 Oct 05 00:45	0° 				16356 May 22 06:43	0° 		
	16353 Oct 28 10:13	0° 				16356 Jun 18 02:21	0° 		
evening rise	16353 Nov 09 15:37	15°  00'17'08		desc. node		16356 Jul 11 18:07	27°  02'02'48'27		
	16353 Nov 21 10:38	0° 				16356 Jul 13 14:10	0° 		

	16356 Aug 07 09:15	0°♏		evening max el	16359 Feb 23 20:45	5°♏02'11	46°01'41
	16356 Aug 31 18:49	0°♎			16359 Mar 26 21:23	0°♎	
	16356 Sep 24 23:18	0°♎		greatest brilliancy	16359 Apr 03 22:59	3°♎45'36	-4.8m
	16356 Oct 19 01:22	0°♎		retrograde	16359 Apr 14 00:56	5°♎38'12	
asc. node	16356 Nov 01 13:57	16°♎52'32		asc. node	16359 Apr 19 03:42	5°♎06'38	
morning set	16356 Nov 04 13:02	20°♎34'18		evening set	16359 Apr 29 02:48	1°♎12'06	
	16356 Nov 12 02:19	0°♎			16359 May 01 05:06	30°♎♂	
	16356 Dec 06 03:04	0°♎		inferior conj	16359 May 05 06:26	27°♎29'55	3°53'44
				minimum elong	16359 May 04 22:22	27°♎42'36	3°50'56
superior conj	16356 Dec 13 00:38	8°♎36'13	1°20'13	min. Earth dist.	16359 May 05 03:55	27°♎33'52	0.28313 AU
minimum elong	16356 Dec 12 17:05	8°♎12'39	1°20'44	morning rise	16359 May 10 17:41	24°♎09'47	
max. Earth dist.	16356 Dec 15 07:18	11°♎26'37	1.72196 AU	direct	16359 May 26 10:01	19°♎19'52	
	16356 Dec 30 04:55	0°♎		greatest brilliancy	16359 Jun 05 18:28	21°♎18'35	-4.8m
evening rise	16357 Jan 19 11:48	25°♎10'08			16359 Jun 21 05:33	0°♎	
	16357 Jan 23 09:32	0°♎		morning max el	16359 Jul 15 06:17	21°♎04'28	46°31'23
	16357 Feb 16 18:19	0°♎			16359 Jul 24 00:06	0°♎	
desc. node	16357 Feb 21 06:26	5°♎31'15		desc. node	16359 Aug 09 04:44	17°♎32'47	
	16357 Mar 13 07:46	0°♎			16359 Aug 20 04:36	0°♎	
	16357 Apr 07 01:50	0°♎			16359 Sep 14 18:13	0°♎	
	16357 May 02 01:20	0°♎			16359 Oct 09 14:58	0°♎	
	16357 May 27 10:03	0°♎			16359 Nov 03 03:41	0°♎	
asc. node	16357 Jun 13 23:43	20°♎17'22			16359 Nov 27 12:08	0°♎	
	16357 Jun 22 14:13	0°♎		asc. node	16359 Nov 30 02:27	3°♎12'24	
evening max el	16357 Jul 20 12:25	29°♎42'42	46°31'17		16359 Dec 21 18:02	0°♎	
	16357 Jul 20 19:23	0°♎			16360 Jan 14 22:41	0°♎	
greatest brilliancy	16357 Aug 29 07:26	29°♎46'50	-4.9m	morning set	16360 Jan 15 18:35	1°♎01'45	
	16357 Aug 29 22:21	0°♎			16360 Feb 08 03:33	0°♎	
retrograde	16357 Sep 08 10:52	1°♎41'47					
	16357 Sep 17 15:12	30°♎♂		superior conj	16360 Feb 21 18:43	16°♎52'05	1°01'39
evening set	16357 Sep 23 01:22	27°♎31'35		minimum elong	16360 Feb 22 04:46	17°♎23'10	1°01'30
inferior conj	16357 Sep 29 02:52	23°♎58'53	1°15'52	max. Earth dist.	16360 Feb 23 13:47	19°♎05'11	1.72984 AU
minimum elong	16357 Sep 29 05:50	23°♎54'21	1°15'07		16360 Mar 03 09:53	0°♎	
min. Earth dist.	16357 Sep 29 06:11	23°♎53'49	0.26919 AU	desc. node	16360 Mar 20 20:06	21°♎29'07	
desc. node	16357 Oct 03 22:45	21°♎06'44			16360 Mar 27 18:04	0°♎	
morning rise	16357 Oct 05 10:20	20°♎18'09		evening rise	16360 Mar 30 15:08	3°♎32'29	
direct	16357 Oct 19 21:12	16°♎14'03			16360 Apr 21 03:31	0°♎	
greatest brilliancy	16357 Oct 29 20:54	18°♎04'45	-4.9m		16360 May 15 13:37	0°♎	
	16357 Nov 18 20:00	0°♎			16360 Jun 09 00:46	0°♎	
morning max el	16357 Dec 08 16:36	17°♎44'35	46°28'19		16360 Jul 03 14:58	0°♎	
	16357 Dec 20 18:14	0°♎		asc. node	16360 Jul 11 12:07	9°♎33'10	
	16358 Jan 17 03:07	0°♎			16360 Jul 28 12:03	0°♎	
asc. node	16358 Jan 24 23:11	8°♎57'03			16360 Aug 22 23:11	0°♎	
	16358 Feb 12 00:47	0°♎			16360 Sep 18 17:59	0°♎	
	16358 Mar 09 05:21	0°♎		evening max el	16360 Sep 30 20:17	12°♎34'30	46°38'49
	16358 Apr 03 00:38	0°♎			16360 Oct 19 18:59	0°♎	
	16358 Apr 27 14:22	0°♎		desc. node	16360 Oct 31 09:12	8°♎21'05	
desc. node	16358 May 16 20:35	23°♎39'44		greatest brilliancy	16360 Nov 09 08:42	12°♎52'14	-4.8m
	16358 May 22 00:00	0°♎		retrograde	16360 Nov 20 03:38	15°♎02'07	
morning set	16358 Jun 07 11:13	20°♎21'21		evening set	16360 Dec 07 08:29	9°♎23'51	
	16358 Jun 15 05:53	0°♎		min. Earth dist.	16360 Dec 10 14:06	7°♎26'52	0.27955 AU
	16358 Jul 09 08:31	0°♎		inferior conj	16360 Dec 11 08:02	6°♎59'19	-8°17'07
max. Earth dist.	16358 Jul 14 04:04	6°♎00'28	1.71952 AU	minimum elong	16360 Dec 10 23:48	7°♎11'58	8°15'24
				morning rise	16360 Dec 14 15:20	4°♎59'00	
superior conj	16358 Jul 16 22:40	9°♎28'18	-1°27'16		16360 Dec 25 14:24	30°♎♂	
minimum elong	16358 Jul 17 01:45	9°♎37'54	1°27'48	direct	16361 Jan 01 08:01	29°♎05'33	
	16358 Aug 02 08:55	0°♎			16361 Jan 08 07:20	0°♎	
evening rise	16358 Aug 25 20:38	29°♎23'04		greatest brilliancy	16361 Jan 10 22:58	0°♎46'57	-4.8m
	16358 Aug 26 08:27	0°♎		morning max el	16361 Feb 19 11:36	29°♎32'39	45°50'05
asc. node	16358 Sep 06 13:03	13°♎59'57			16361 Feb 19 22:52	0°♎	
	16358 Sep 19 08:22	0°♎		asc. node	16361 Feb 21 09:25	1°♎24'24	
	16358 Oct 13 10:08	0°♎			16361 Mar 20 13:19	0°♎	
	16358 Nov 06 15:59	0°♎			16361 Apr 15 21:39	0°♎	
	16358 Dec 01 05:51	0°♎			16361 May 11 07:06	0°♎	
	16358 Dec 26 09:46	0°♎			16361 Jun 05 03:50	0°♎	
desc. node	16358 Dec 27 06:06	0°♎59'35		desc. node	16361 Jun 13 08:38	9°♎59'45	
	16359 Jan 21 13:43	0°♎			16361 Jun 29 15:58	0°♎	
	16359 Feb 18 17:53	0°♎			16361 Jul 23 21:49	0°♎	

	16361 Aug 16 23:29	0° \mathbb{M}	greatest brilliancy	16364 Jan 20 23:37	22° \mathbb{H} 58'16	-4.8m
morning set	16361 Aug 20 13:08	4° \mathbb{M} 27'34	retrograde	16364 Jan 31 02:02	24° \mathbb{H} 49'27	
	16361 Sep 09 22:56	0° $\underline{\mathbb{L}}$	evening set	16364 Feb 16 22:36	19° \mathbb{H} 24'17	
			inferior conj	16364 Feb 21 11:33	16° \mathbb{H} 37'09	-6°19'01
superior conj	16361 Sep 29 04:58	24° $\underline{\mathbb{L}}$ 06'54 -0°12'03	minimum elong	16364 Feb 21 22:08	16° \mathbb{H} 20'35	6°16'29
minimum elong	16361 Sep 29 07:56	24° $\underline{\mathbb{L}}$ 16'13 0°11'40	min. Earth dist.	16364 Feb 21 15:19	16° \mathbb{H} 31'14	0.28582 AU
behind sun begin	16361 Sep 28 14:20	23° $\underline{\mathbb{L}}$ 21'03	morning rise	16364 Feb 26 21:46	13° \mathbb{H} 20'00	
behind sun end	16361 Sep 30 01:32	25° $\underline{\mathbb{L}}$ 11'22	direct	16364 Mar 13 18:32	8° \mathbb{H} 29'37	
max. Earth dist.	16361 Sep 29 05:52	24° $\underline{\mathbb{L}}$ 09'43 1.71584 AU	asc. node	16364 Mar 20 19:19	9° \mathbb{H} 25'31	
	16361 Oct 03 21:41	0° \mathbb{M}	greatest brilliancy	16364 Mar 24 08:29	10° \mathbb{H} 32'40	-4.8m
asc. node	16361 Oct 04 02:36	0° \mathbb{M} 15'24		16364 Apr 22 01:15	0° \mathbb{Y}	
	16361 Oct 27 20:43	0° \mathbb{X}	morning max el	16364 May 01 22:14	9° \mathbb{Y} 15'18	45°51'11
evening rise	16361 Nov 07 06:14	13° \mathbb{X} 00'03		16364 May 21 23:26	0° \mathbb{B}	
	16361 Nov 20 21:13	0° \mathbb{B}		16364 Jun 17 15:58	0° \mathbb{H}	
	16361 Dec 15 01:06	0° \approx	desc. node	16364 Jul 10 20:04	27° \mathbb{H} 17'30	
	16362 Jan 08 11:04	0° \mathbb{H}		16364 Jul 13 02:24	0° \mathbb{B}	
desc. node	16362 Jan 23 18:54	18° \mathbb{H} 36'45		16364 Aug 06 20:46	0° \mathbb{Q}	
	16362 Feb 02 05:49	0° \mathbb{Y}		16364 Aug 31 05:56	0° \mathbb{M}	
	16362 Feb 27 12:07	0° \mathbb{B}		16364 Sep 24 10:09	0° $\underline{\mathbb{L}}$	
	16362 Mar 25 10:50	0° \mathbb{H}		16364 Oct 18 12:00	0° \mathbb{M}	
	16362 Apr 21 16:48	0° \mathbb{B}	asc. node	16364 Oct 31 15:42	16° \mathbb{M} 25'05	
evening max el	16362 May 06 05:25	14° \mathbb{B} 49'58 46°07'59	morning set	16364 Nov 02 02:48	18° \mathbb{M} 14'39	
asc. node	16362 May 16 14:16	24° \mathbb{B} 33'24		16364 Nov 11 12:47	0° \mathbb{X}	
	16362 May 22 22:27	0° \mathbb{Q}		16364 Dec 05 13:26	0° \mathbb{B}	
greatest brilliancy	16362 Jun 15 03:25	14° \mathbb{Q} 19'05 -4.8m				
retrograde	16362 Jun 24 16:46	16° \mathbb{Q} 01'02	superior conj	16364 Dec 10 16:11	6° \mathbb{B} 22'48	1°18'47
evening set	16362 Jul 12 20:36	9° \mathbb{Q} 43'06	minimum elong	16364 Dec 10 08:03	5° \mathbb{B} 57'26	1°19'17
inferior conj	16362 Jul 15 12:12	8° \mathbb{Q} 04'40 9°03'07	max. Earth dist.	16364 Dec 12 21:29	9° \mathbb{B} 08'56	1.72162 AU
minimum elong	16362 Jul 15 14:16	8° \mathbb{Q} 01'28 9°02'30		16364 Dec 29 15:15	0° \approx	
min. Earth dist.	16362 Jul 16 00:12	7° \mathbb{Q} 45'58 0.27835 AU	evening rise	16365 Jan 17 03:34	22° \approx 58'14	
morning rise	16362 Jul 18 07:53	6° \mathbb{Q} 19'56		16365 Jan 22 19:57	0° \mathbb{H}	
	16362 Aug 05 06:09	30° \mathbb{R} \mathbb{B}		16365 Feb 16 04:55	0° \mathbb{Y}	
direct	16362 Aug 05 13:18	29° \mathbb{B} 59'54	desc. node	16365 Feb 20 08:21	5° \mathbb{Y} 04'33	
	16362 Aug 05 20:28	0° \mathbb{Q}		16365 Mar 12 18:40	0° \mathbb{B}	
greatest brilliancy	16362 Aug 15 15:57	1° \mathbb{Q} 56'08 -4.9m		16365 Apr 06 13:13	0° \mathbb{H}	
desc. node	16362 Sep 05 14:40	14° \mathbb{Q} 54'50		16365 May 01 13:28	0° \mathbb{B}	
	16362 Sep 22 05:20	0° \mathbb{M}		16365 May 26 23:30	0° \mathbb{Q}	
morning max el	16362 Sep 25 01:50	2° \mathbb{M} 50'16 46°55'58	asc. node	16365 Jun 13 01:36	19° \mathbb{Q} 40'17	
	16362 Oct 20 11:30	0° $\underline{\mathbb{L}}$		16365 Jun 22 06:17	0° \mathbb{M}	
	16362 Nov 15 14:39	0° \mathbb{M}	evening max el	16365 Jul 18 00:27	27° \mathbb{M} 17'15	46°30'31
	16362 Dec 10 21:48	0° \mathbb{X}		16365 Jul 20 18:39	0° $\underline{\mathbb{L}}$	
asc. node	16362 Dec 27 14:07	20° \mathbb{X} 05'21	greatest brilliancy	16365 Aug 26 22:04	27° $\underline{\mathbb{L}}$ 24'26	-4.9m
	16363 Jan 04 18:21	0° \mathbb{B}	retrograde	16365 Sep 05 23:10	29° $\underline{\mathbb{L}}$ 17'46	
	16363 Jan 29 08:25	0° \approx	evening set	16365 Sep 20 15:45	25° $\underline{\mathbb{L}}$ 05'13	
	16363 Feb 22 18:47	0° \mathbb{H}	inferior conj	16365 Sep 26 15:34	21° $\underline{\mathbb{L}}$ 35'06	1°40'06
	16363 Mar 19 03:31	0° \mathbb{Y}	minimum elong	16365 Sep 26 19:27	21° $\underline{\mathbb{L}}$ 29'10	1°39'01
morning set	16363 Mar 25 20:39	8° \mathbb{Y} 16'23	min. Earth dist.	16365 Sep 26 20:40	21° $\underline{\mathbb{L}}$ 27'19	0.26921 AU
	16363 Apr 12 11:34	0° \mathbb{B}	morning rise	16365 Oct 02 23:02	17° $\underline{\mathbb{L}}$ 54'04	
desc. node	16363 Apr 18 09:25	7° \mathbb{B} 17'37	desc. node	16365 Oct 03 00:41	17° $\underline{\mathbb{L}}$ 51'53	
max. Earth dist.	16363 May 01 13:43	23° \mathbb{B} 33'53 1.72905 AU	direct	16365 Oct 17 09:16	13° $\underline{\mathbb{L}}$ 49'37	
			greatest brilliancy	16365 Oct 27 11:08	15° $\underline{\mathbb{L}}$ 42'04	-4.9m
superior conj	16363 May 02 23:17	25° \mathbb{B} 17'32 -0°34'38		16365 Nov 19 08:03	0° \mathbb{M}	
minimum elong	16363 May 02 15:35	24° \mathbb{B} 53'45 0°34'47	morning max el	16365 Dec 06 05:31	15° \mathbb{M} 22'27	46°30'02
	16363 May 06 18:42	0° \mathbb{H}		16365 Dec 20 12:53	0° \mathbb{X}	
	16363 May 31 00:20	0° \mathbb{B}		16366 Jan 16 17:32	0° \mathbb{B}	
evening rise	16363 Jun 10 11:10	12° \mathbb{B} 57'47	asc. node	16366 Jan 24 01:10	8° \mathbb{B} 23'18	
	16363 Jun 24 04:27	0° \mathbb{Q}		16366 Feb 11 13:21	0° \approx	
	16363 Jul 18 08:02	0° \mathbb{M}		16366 Mar 08 16:58	0° \mathbb{H}	
asc. node	16363 Aug 09 01:18	26° \mathbb{M} 56'15		16366 Apr 02 11:43	0° \mathbb{Y}	
	16363 Aug 11 12:40	0° $\underline{\mathbb{L}}$		16366 Apr 27 01:10	0° \mathbb{B}	
	16363 Sep 04 20:24	0° \mathbb{M}	desc. node	16366 May 15 22:20	23° \mathbb{B} 12'16	
	16363 Sep 29 10:30	0° \mathbb{X}		16366 May 21 10:39	0° \mathbb{H}	
	16363 Oct 24 13:29	0° \mathbb{B}	morning set	16366 Jun 05 00:18	18° \mathbb{H} 00'18	
	16363 Nov 19 19:56	0° \approx		16366 Jun 14 16:29	0° \mathbb{B}	
desc. node	16363 Nov 28 20:03	9° \approx 45'00		16366 Jul 08 19:07	0° \mathbb{Q}	
evening max el	16363 Dec 12 14:02	23° \approx 50'16 46°20'14	max. Earth dist.	16366 Jul 11 15:57	3° \mathbb{Q} 34'43	1.71985 AU
	16363 Dec 19 00:53	0° \mathbb{H}				

superior conj	16366 Jul 14 11:17	7°04'49"	-1°27'40"	morning rise	16368 Dec 12 08:02	2°36'15"	
minimum elong	16366 Jul 14 13:21	7°01'16"	1°28'14"		16368 Dec 17 03:27	30°08'27"	
	16366 Aug 01 19:33	0°00'00"		direct	16368 Dec 29 22:13	26°07'47"25	
evening rise	16366 Aug 23 08:28	26°00'56"31		greatest brilliancy	16369 Jan 08 11:23	28°07'27"48	-4.8m
greatest brilliancy	16366 Aug 23 06:23	26°00'50"01	-3.9m		16369 Jan 12 09:21	0°00'00"	
	16366 Aug 25 19:09	0°00'00"		morning max el	16369 Feb 17 02:30	27°03'17"45	45°50'57"
asc. node	16366 Sep 05 14:51	13°00'31"54			16369 Feb 19 20:51	0°00'00"	
	16366 Sep 18 19:12	0°00'00"		asc. node	16369 Feb 20 11:18	0°00'35"45	
	16366 Oct 12 21:10	0°00'00"			16369 Mar 20 04:49	0°00'00"	
	16366 Nov 06 03:22	0°00'00"			16369 Apr 15 10:48	0°00'00"	
	16366 Nov 30 17:45	0°00'00"			16369 May 10 19:08	0°00'00"	
	16366 Dec 25 22:38	0°00'00"			16369 Jun 04 15:18	0°00'00"	
desc. node	16366 Dec 26 08:02	0°00'00"27"29		desc. node	16369 Jun 12 10:34	9°00'00"31"06	
	16367 Jan 21 04:38	0°00'00"			16369 Jun 29 03:08	0°00'00"	
	16367 Feb 18 14:24	0°00'00"			16369 Jul 23 08:49	0°00'00"	
evening max el	16367 Feb 21 11:31	2°00'48"45	46°02'02"		16369 Aug 16 10:24	0°00'00"	
	16367 Mar 28 20:01	0°00'00"		morning set	16369 Aug 18 01:31	2°00'00"02"13	
greatest brilliancy	16367 Apr 01 13:26	1°00'00"31"40	-4.8m		16369 Sep 09 09:49	0°00'00"	
retrograde	16367 Apr 11 16:27	3°00'00"25"14					
asc. node	16367 Apr 18 05:29	2°00'00"33"14		superior conj	16369 Sep 26 17:15	21°00'00"41"01	-0°15'50"
	16367 Apr 24 19:23	30°00'00"00"00		minimum elong	16369 Sep 26 21:10	21°00'00"53"17	0°15'27"
evening set	16367 Apr 26 16:51	29°00'00"00"16		behind sun begin	16369 Sep 26 13:31	21°00'00"29"19	
inferior conj	16367 May 02 21:50	25°00'00"16"21	3°33'58"	behind sun end	16369 Sep 27 04:49	22°00'00"17"15	
minimum elong	16367 May 02 14:19	25°00'00"28"09	3°31'19"	max. Earth dist.	16369 Sep 26 18:15	21°00'00"44"08	1.71576 AU
min. Earth dist.	16367 May 02 19:21	25°00'00"20"16	0.28326 AU	asc. node	16369 Oct 03 04:20	29°00'00"46"51	
morning rise	16367 May 08 11:35	21°00'00"53"03			16369 Oct 03 08:32	0°00'00"	
direct	16367 May 24 01:35	17°00'00"06"05			16369 Oct 27 07:34	0°00'00"	
greatest brilliancy	16367 Jun 03 10:47	19°00'00"05"50	-4.8m	evening rise	16369 Nov 04 20:23	10°00'00"07"40"21	
	16367 Jun 21 20:47	0°00'00"			16369 Nov 20 08:06	0°00'00"	
morning max el	16367 Jul 12 21:55	18°00'00"50"07	46°29'55"		16369 Dec 14 12:09	0°00'00"	
	16367 Jul 23 18:58	0°00'00"			16370 Jan 07 22:25	0°00'00"	
desc. node	16367 Aug 08 06:40	16°00'00"53"40		desc. node	16370 Jan 22 20:49	18°00'00"07"22	
	16367 Aug 19 19:19	0°00'00"			16370 Feb 01 17:42	0°00'00"	
	16367 Sep 14 07:12	0°00'00"			16370 Feb 27 00:54	0°00'00"	
	16367 Oct 09 03:02	0°00'00"			16370 Mar 25 01:19	0°00'00"	
	16367 Nov 02 15:10	0°00'00"			16370 Apr 21 11:13	0°00'00"	
	16367 Nov 26 23:15	0°00'00"		evening max el	16370 May 03 20:05	12°00'00"53"24	46°07'20"
asc. node	16367 Nov 29 04:15	2°00'00"07"43"48		asc. node	16370 May 15 16:11	23°00'00"53"43"32	
	16367 Dec 21 04:53	0°00'00"			16370 May 23 09:34	0°00'00"	
morning set	16368 Jan 13 10:42	28°00'00"34"49		greatest brilliancy	16370 Jun 12 16:59	11°00'00"05"55	-4.8m
	16368 Jan 14 09:20	0°00'00"		retrograde	16370 Jun 22 06:24	13°00'00"04"40	
	16368 Feb 07 14:05	0°00'00"		evening set	16370 Jul 10 10:41	7°00'00"23"46	
				inferior conj	16370 Jul 13 02:26	5°00'00"04"44"50	9°04'28"
superior conj	16368 Feb 19 11:09	14°00'00"00"41"59	1°04'01"	minimum elong	16370 Jul 13 03:35	5°00'00"03"43"02	9°03'53"
minimum elong	16368 Feb 19 21:11	15°00'00"00"13"01	1°03'54"	min. Earth dist.	16370 Jul 13 13:32	5°00'00"27"28	0.27870 AU
max. Earth dist.	16368 Feb 21 09:22	17°00'00"00"04"50	1.72965 AU	morning rise	16370 Jul 15 20:26	4°00'00"02"22	
	16368 Mar 02 20:23	0°00'00"			16370 Jul 23 10:12	30°00'00"00"00	
desc. node	16368 Mar 19 21:50	21°00'00"01"57		direct	16370 Aug 03 03:50	27°00'00"53"39"42	
	16368 Mar 27 04:39	0°00'00"		greatest brilliancy	16370 Aug 13 05:51	29°00'00"53"34"56	-4.9m
evening rise	16368 Mar 28 07:14	1°00'00"21"46			16370 Aug 14 08:06	0°00'00"	
	16368 Apr 20 14:17	0°00'00"		desc. node	16370 Sep 04 16:34	13°00'00"02"47"10	
	16368 May 15 00:40	0°00'00"			16370 Sep 22 04:30	0°00'00"	
	16368 Jun 08 12:15	0°00'00"		morning max el	16370 Sep 22 15:30	0°00'00"27"34	46°55'48"
	16368 Jul 03 03:03	0°00'00"			16370 Oct 20 03:57	0°00'00"	
asc. node	16368 Jul 10 14:02	9°00'00"01"34			16370 Nov 15 04:36	0°00'00"	
	16368 Jul 28 01:08	0°00'00"			16370 Dec 10 10:26	0°00'00"	
	16368 Aug 22 14:04	0°00'00"		asc. node	16370 Dec 26 16:07	19°00'00"07"34"58	
	16368 Sep 18 12:59	0°00'00"			16371 Jan 04 06:10	0°00'00"	
evening max el	16368 Sep 28 11:19	10°00'00"07"15"57	46°39'09"		16371 Jan 28 19:44	0°00'00"	
	16368 Oct 20 07:56	0°00'00"			16371 Feb 22 05:48	0°00'00"	
desc. node	16368 Oct 30 10:59	6°00'00"54"14			16371 Mar 18 14:22	0°00'00"	
greatest brilliancy	16368 Nov 06 21:54	10°00'00"53"31"24	-4.8m	morning set	16371 Mar 23 13:03	6°00'00"05"44	
retrograde	16368 Nov 17 18:38	12°00'00"53"42"40			16371 Apr 11 22:21	0°00'00"	
evening set	16368 Dec 04 18:30	7°00'00"31"10"34		desc. node	16371 Apr 17 11:14	6°00'00"49"59	
min. Earth dist.	16368 Dec 08 03:07	5°00'00"09"17	0.27906 AU	max. Earth dist.	16371 Apr 29 05:19	21°00'00"08"20"37	1.72923 AU
inferior conj	16368 Dec 08 21:57	4°00'00"40"23	-8°07'54"				
minimum elong	16368 Dec 08 13:08	4°00'00"53"56	8°06'02"	superior conj	16371 Apr 30 14:21	23°00'00"02"38	-0°31'21"

minimum elong	16371 Apr 30 07:17	22°♄40'49	0°31'31	morning max el	16373 Dec 03 19:28	13°♍01'55	46°31'30
	16371 May 06 05:28	0°♈			16373 Dec 20 07:27	0°♈	
	16371 May 30 11:08	0°♊			16374 Jan 16 08:12	0°♊	
evening rise	16371 Jun 08 01:25	10°♊39'25		asc. node	16374 Jan 23 03:00	7°♊48'01	
	16371 Jun 23 15:24	0°♈			16374 Feb 11 02:16	0°♈	
	16371 Jul 17 19:12	0°♈			16374 Mar 08 04:55	0°♈	
asc. node	16371 Aug 08 03:07	26°♈26'28			16374 Apr 01 23:06	0°♈	
	16371 Aug 11 00:09	0°♈			16374 Apr 26 12:14	0°♈	
	16371 Sep 04 08:22	0°♈		desc. node	16374 May 15 00:12	22°♈44'22	
	16371 Sep 28 23:11	0°♈			16374 May 20 21:32	0°♈	
	16371 Oct 24 03:28	0°♈		morning set	16374 Jun 02 13:34	15°♈39'11	
	16371 Nov 19 12:44	0°♈			16374 Jun 14 03:19	0°♈	
desc. node	16371 Nov 27 22:04	9°♈01'30			16374 Jul 08 05:56	0°♈	
evening max el	16371 Dec 10 04:00	21°♈32'02	46°21'04	max. Earth dist.	16374 Jul 09 06:02	1°♈15'09	1.72016 AU
	16371 Dec 19 02:52	0°♈					
greatest brilliancy	16372 Jan 18 15:34	20°♈45'33	-4.8m	superior conj	16374 Jul 12 00:09	4°♈41'24	-1°27'54
retrograde	16372 Jan 28 16:52	22°♈36'08		minimum elong	16374 Jul 12 01:13	4°♈44'45	1°28'30
evening set	16372 Feb 14 17:07	17°♈06'40			16374 Aug 01 06:24	0°♈	
inferior conj	16372 Feb 19 03:03	14°♈24'02	-6°33'46	evening rise	16374 Aug 20 20:40	24°♈30'32	
minimum elong	16372 Feb 19 13:38	14°♈07'28	6°31'19	greatest brilliancy	16374 Aug 22 15:35	26°♈44'44	-3.9m
min. Earth dist.	16372 Feb 19 06:50	14°♈18'07	0.28583 AU		16374 Aug 25 06:03	0°♈	
morning rise	16372 Feb 24 10:12	11°♈11'01		asc. node	16374 Sep 04 16:35	13°♈03'05	
direct	16372 Mar 11 09:34	6°♈16'42			16374 Sep 18 06:13	0°♈	
asc. node	16372 Mar 19 21:11	7°♈36'45			16374 Oct 12 08:22	0°♈	
greatest brilliancy	16372 Mar 21 23:50	8°♈19'28	-4.8m		16374 Nov 05 14:54	0°♈	
	16372 Apr 22 03:44	0°♈			16374 Nov 30 05:53	0°♈	
morning max el	16372 Apr 29 12:16	6°♈58'08	45°50'26	desc. node	16374 Dec 25 09:52	29°♈54'12	
	16372 May 21 16:11	0°♈			16374 Dec 25 11:52	0°♈	
	16372 Jun 17 05:47	0°♈			16375 Jan 20 20:08	0°♈	
desc. node	16372 Jul 09 21:59	26°♈45'36			16375 Feb 18 12:06	0°♈	
	16372 Jul 12 14:54	0°♈		evening max el	16375 Feb 19 03:12	0°♈36'35	46°02'26
	16372 Aug 06 08:35	0°♈		greatest brilliancy	16375 Mar 30 03:50	29°♈16'46	-4.8m
	16372 Aug 30 17:21	0°♈			16375 Apr 01 09:23	0°♈	
	16372 Sep 23 21:21	0°♈		retrograde	16375 Apr 09 08:14	1°♈11'09	
	16372 Oct 17 23:02	0°♈			16375 Apr 16 23:38	30°♈	
morning set	16372 Oct 30 16:18	15°♈52'44		asc. node	16375 Apr 17 07:27	29°♈53'50	
asc. node	16372 Oct 30 17:34	15°♈56'39		evening set	16375 Apr 24 07:04	26°♈47'24	
	16372 Nov 10 23:42	0°♈		inferior conj	16375 Apr 30 13:09	23°♈01'52	3°13'57
	16372 Dec 05 00:17	0°♈		minimum elong	16375 Apr 30 06:14	23°♈12'43	3°11'26
				min. Earth dist.	16375 Apr 30 10:30	23°♈06'02	0.28333 AU
superior conj	16372 Dec 08 07:18	4°♈06'28	1°17'12	morning rise	16375 May 06 05:17	19°♈35'34	
minimum elong	16372 Dec 07 22:39	3°♈39'28	1°17'40	direct	16375 May 21 17:25	14°♈51'43	
max. Earth dist.	16372 Dec 10 08:12	6°♈38'56	1.72132 AU	greatest brilliancy	16375 Jun 01 02:20	16°♈51'38	-4.8m
	16372 Dec 29 02:05	0°♈			16375 Jun 22 08:18	0°♈	
evening rise	16373 Jan 14 18:53	20°♈43'30		morning max el	16375 Jul 10 13:43	16°♈35'59	46°28'25
	16373 Jan 22 06:50	0°♈			16375 Jul 23 13:27	0°♈	
	16373 Feb 15 15:57	0°♈		desc. node	16375 Aug 07 08:28	16°♈14'14	
desc. node	16373 Feb 19 10:04	4°♈35'54			16375 Aug 19 09:56	0°♈	
	16373 Mar 12 05:59	0°♈			16375 Sep 13 20:10	0°♈	
	16373 Apr 06 01:00	0°♈			16375 Oct 08 15:06	0°♈	
	16373 May 01 02:02	0°♈			16375 Nov 02 02:40	0°♈	
	16373 May 26 13:26	0°♈			16375 Nov 26 10:22	0°♈	
asc. node	16373 Jun 12 03:35	19°♈02'16		asc. node	16375 Nov 28 06:12	2°♈15'31	
	16373 Jun 21 22:58	0°♈			16375 Dec 20 15:45	0°♈	
evening max el	16373 Jul 15 12:46	24°♈52'00	46°29'54	morning set	16376 Jan 11 02:49	26°♈37'40	
	16373 Jul 20 19:19	0°♈			16376 Jan 13 20:02	0°♈	
greatest brilliancy	16373 Aug 24 12:15	25°♈01'13	-4.9m		16376 Feb 07 00:42	0°♈	
retrograde	16373 Sep 03 12:02	26°♈53'50					
evening set	16373 Sep 18 06:29	22°♈38'21		superior conj	16376 Feb 17 03:24	12°♈30'55	1°06'17
inferior conj	16373 Sep 24 04:25	19°♈11'03	2°03'50	minimum elong	16376 Feb 17 13:22	13°♈01'44	1°06'13
minimum elong	16373 Sep 24 09:12	19°♈03'46	2°02'28	max. Earth dist.	16376 Feb 19 05:04	15°♈04'30	1.72950 AU
min. Earth dist.	16373 Sep 24 10:58	19°♈01'05	0.26930 AU		16376 Mar 02 07:02	0°♈	
morning rise	16373 Sep 30 11:44	15°♈30'18		desc. node	16376 Mar 18 23:37	20°♈34'29	
desc. node	16373 Oct 02 02:30	14°♈40'45		evening rise	16376 Mar 25 22:57	29°♈09'27	
direct	16373 Oct 14 21:50	11°♈24'49			16376 Mar 26 15:23	0°♈	
greatest brilliancy	16373 Oct 25 01:12	13°♈18'52	-4.9m		16376 Apr 20 01:11	0°♈	
	16373 Nov 19 17:16	0°♈			16376 May 14 11:49	0°♈	

	16376 Jun 07 23:47	0°♎			16378 Nov 14 18:07	0°♍		
	16376 Jul 02 15:13	0°♍			16378 Dec 09 22:41	0°♊		
asc. node	16376 Jul 09 15:50	8°♍29'35		asc. node	16378 Dec 25 17:52	19°♊04'44		
	16376 Jul 27 14:19	0°♎			16379 Jan 03 17:39	0°♊		
	16376 Aug 22 05:09	0°♍			16379 Jan 28 06:43	0°♌		
evening max el	16376 Sep 18 08:30	0°♊			16379 Feb 21 16:28	0°♋		
	16376 Sep 26 02:45	7°♊58'33	46°39'26		16379 Mar 18 00:53	0°♌		
	16376 Oct 21 01:06	0°♊		morning set	16379 Mar 21 05:36	3°♌56'26		
desc. node	16376 Oct 29 13:02	5°♊25'11			16379 Apr 11 08:48	0°♍		
greatest brilliancy	16376 Nov 04 11:52	8°♊11'55	-4.8m	desc. node	16379 Apr 16 13:08	6°♍23'33		
retrograde	16376 Nov 15 09:36	10°♊23'35		max. Earth dist.	16379 Apr 26 21:25	19°♍09'52	1.72948 AU	
evening set	16376 Dec 02 04:40	4°♊58'04						
min. Earth dist.	16376 Dec 05 16:27	2°♊52'05	0.27854 AU	superior conj	16379 Apr 28 05:26	20°♋48'41	-0°28'02	
inferior conj	16376 Dec 06 11:58	2°♊22'06	-7°57'57	minimum elong	16379 Apr 27 23:02	20°♋28'57	0°28'11	
minimum elong	16376 Dec 06 02:37	2°♊36'28	7°55'53		16379 May 05 15:57	0°♌		
morning rise	16376 Dec 10 00:55	0°♊13'50			16379 May 29 21:43	0°♍		
	16376 Dec 10 10:24	30°♋♊		evening rise	16379 Jun 05 15:33	8°♍21'27		
direct	16376 Dec 27 12:29	24°♊30'10			16379 Jun 23 02:08	0°♎		
greatest brilliancy	16377 Jan 05 23:44	26°♊09'07	-4.8m		16379 Jul 17 06:08	0°♍		
	16377 Jan 14 12:05	0°♊		asc. node	16379 Aug 07 04:52	25°♍57'14		
morning max el	16377 Feb 14 16:39	25°♊01'25	45°51'39		16379 Aug 10 11:23	0°♎		
asc. node	16377 Feb 19 13:11	29°♊48'25			16379 Sep 03 20:02	0°♍		
	16377 Feb 19 17:49	0°♌			16379 Sep 28 11:36	0°♊		
	16377 Mar 19 19:59	0°♋			16379 Oct 23 17:13	0°♊		
	16377 Apr 14 23:49	0°♌			16379 Nov 19 05:29	0°♌		
	16377 May 10 07:07	0°♍		desc. node	16379 Nov 26 23:56	8°♌18'10		
	16377 Jun 04 02:43	0°♌		evening max el	16379 Dec 07 17:31	19°♌13'39	46°21'56	
desc. node	16377 Jun 11 12:28	9°♌02'26			16379 Dec 19 05:55	0°♋		
	16377 Jun 28 14:12	0°♍		greatest brilliancy	16380 Jan 16 07:14	18°♋33'31	-4.8m	
	16377 Jul 22 19:41	0°♎		retrograde	16380 Jan 26 07:57	20°♋24'07		
morning set	16377 Aug 15 13:51	29°♎37'11		evening set	16380 Feb 12 11:36	14°♋50'03		
	16377 Aug 15 21:09	0°♍		inferior conj	16380 Feb 16 18:33	12°♋12'05	-6°47'54	
	16377 Sep 08 20:32	0°♎		minimum elong	16380 Feb 17 05:03	11°♋55'38	6°45'33	
				min. Earth dist.	16380 Feb 16 22:16	12°♋06'15	0.28585 AU	
superior conj	16377 Sep 24 05:36	19°♎15'50	-0°19'36	morning rise	16380 Feb 21 22:30	9°♋03'37		
minimum elong	16377 Sep 24 10:26	19°♎30'59	0°19'12	direct	16380 Mar 09 00:21	4°♋04'48		
max. Earth dist.	16377 Sep 24 04:42	19°♎13'01	1.71570 AU	asc. node	16380 Mar 18 23:08	5°♋53'16		
asc. node	16377 Oct 02 06:12	29°♎19'10		greatest brilliancy	16380 Mar 19 15:19	6°♋07'48	-4.8m	
	16377 Oct 02 19:14	0°♍			16380 Apr 22 04:16	0°♌		
	16377 Oct 26 18:16	0°♊		morning max el	16380 Apr 27 02:52	4°♌43'40	45°49'42	
evening rise	16377 Nov 02 10:32	8°♊21'04			16380 May 21 08:10	0°♍		
	16377 Nov 19 18:51	0°♊			16380 Jun 16 19:06	0°♌		
	16377 Dec 13 23:01	0°♌		desc. node	16380 Jul 08 23:45	26°♌14'16		
	16378 Jan 07 09:35	0°♋			16380 Jul 12 03:02	0°♍		
desc. node	16378 Jan 21 22:36	17°♋38'12			16380 Aug 05 20:05	0°♎		
	16378 Feb 01 05:24	0°♌			16380 Aug 30 04:29	0°♍		
	16378 Feb 26 13:34	0°♍			16380 Sep 23 08:13	0°♎		
	16378 Mar 24 15:49	0°♌			16380 Oct 17 09:42	0°♍		
	16378 Apr 21 06:04	0°♍		morning set	16380 Oct 28 05:35	13°♍31'11		
evening max el	16378 May 01 09:55	10°♍14'55	46°06'34	asc. node	16380 Oct 29 19:25	15°♍29'22		
asc. node	16378 May 14 18:10	22°♍34'31			16380 Nov 10 10:14	0°♊		
	16378 May 24 00:29	0°♎			16380 Dec 04 10:44	0°♊		
greatest brilliancy	16378 Jun 10 07:04	9°♎41'19	-4.8m					
retrograde	16378 Jun 19 19:41	11°♎22'31		superior conj	16380 Dec 05 22:16	1°♊50'51	1°15'30	
evening set	16378 Jul 08 00:10	5°♎05'28		minimum elong	16380 Dec 05 13:07	1°♊22'19	1°15'55	
inferior conj	16378 Jul 10 16:37	3°♎25'21	9°04'56	max. Earth dist.	16380 Dec 07 19:17	4°♊11'16	1.72104 AU	
minimum elong	16378 Jul 10 16:49	3°♎25'03	9°04'21		16380 Dec 28 12:33	0°♌		
min. Earth dist.	16378 Jul 11 03:10	3°♎08'48	0.27901 AU	evening rise	16381 Jan 12 10:20	18°♌30'17		
morning rise	16378 Jul 13 09:23	1°♎44'32			16381 Jan 21 17:21	0°♋		
	16378 Jul 16 08:10	30°♋♍			16381 Feb 15 02:37	0°♌		
direct	16378 Jul 31 17:46	25°♍19'46		desc. node	16381 Feb 18 11:53	4°♌08'44		
greatest brilliancy	16378 Aug 10 20:14	27°♍14'50	-4.9m		16381 Mar 11 16:55	0°♍		
	16378 Aug 16 22:12	0°♎			16381 Apr 05 12:25	0°♌		
desc. node	16378 Sep 03 18:30	12°♎42'01			16381 Apr 30 14:16	0°♍		
morning max el	16378 Sep 20 04:28	28°♎03'50	46°55'41		16381 May 26 03:07	0°♎		
	16378 Sep 22 02:26	0°♍		asc. node	16381 Jun 11 05:22	18°♎24'24		
	16378 Oct 19 19:48	0°♎			16381 Jun 21 15:38	0°♍		

evening max el	16381 Jul 13 01:51	22° \mathbb{M} 29'32	46°29'07		16384 Feb 06 11:05	0° \mathbb{H}	
	16381 Jul 20 21:02	0° \mathbb{L}					
greatest brilliancy	16381 Aug 22 01:44	22° \mathbb{L} 37'27	-4.9m	superior conj	16384 Feb 14 19:36	10° \mathbb{H} 20'26	1°08'27
retrograde	16381 Sep 01 01:14	24° \mathbb{L} 29'48		minimum elong	16384 Feb 15 05:25	10° \mathbb{H} 50'49	1°08'26
evening set	16381 Sep 15 21:10	20° \mathbb{L} 11'10		max. Earth dist.	16384 Feb 17 00:57	13° \mathbb{H} 05'25	1.72929 AU
inferior conj	16381 Sep 21 17:00	16° \mathbb{L} 46'48	2°27'36		16384 Mar 01 17:25	0° \mathbb{Y}	
minimum elong	16381 Sep 21 22:39	16° \mathbb{L} 38'13	2°25'56	desc. node	16384 Mar 18 01:32	20° \mathbb{Y} 08'10	
min. Earth dist.	16381 Sep 22 00:43	16° \mathbb{L} 35'04	0.26939 AU	evening rise	16384 Mar 23 14:44	26° \mathbb{Y} 58'02	
morning rise	16381 Sep 27 23:56	13° \mathbb{L} 06'50			16384 Mar 26 01:53	0° \mathbb{B}	
desc. node	16381 Oct 01 04:32	11° \mathbb{L} 33'12			16384 Apr 19 11:52	0° \mathbb{I}	
direct	16381 Oct 12 10:37	8° \mathbb{L} 59'59			16384 May 13 22:46	0° \mathbb{G}	
greatest brilliancy	16381 Oct 22 14:29	10° \mathbb{L} 55'01	-4.9m		16384 Jun 07 11:07	0° \mathbb{O}	
	16381 Nov 19 23:37	0° \mathbb{M}			16384 Jul 02 03:10	0° \mathbb{M}	
morning max el	16381 Dec 01 10:06	10° \mathbb{M} 43'56	46°33'01	asc. node	16384 Jul 08 17:41	7° \mathbb{M} 58'23	
	16381 Dec 20 01:10	0° \mathbb{X}			16384 Jul 27 03:20	0° \mathbb{L}	
	16382 Jan 15 22:17	0° \mathbb{Z}			16384 Aug 21 20:11	0° \mathbb{M}	
asc. node	16382 Jan 22 04:53	7° \mathbb{Z} 14'16			16384 Sep 18 04:23	0° \mathbb{X}	
	16382 Feb 10 14:41	0° \approx		evening max el	16384 Sep 23 17:41	5° \mathbb{X} 40'17	46°39'25
	16382 Mar 07 16:26	0° \mathbb{H}			16384 Oct 22 00:17	0° \mathbb{Z}	
	16382 Apr 01 10:05	0° \mathbb{Y}		desc. node	16384 Oct 28 14:55	3° \mathbb{Z} 52'42	
	16382 Apr 25 22:54	0° \mathbb{B}		greatest brilliancy	16384 Nov 02 02:22	5° \mathbb{Z} 52'54	-4.8m
desc. node	16382 May 14 02:03	22° \mathbb{B} 17'33		retrograde	16384 Nov 12 23:52	8° \mathbb{Z} 04'02	
	16382 May 20 08:03	0° \mathbb{I}		evening set	16384 Nov 29 14:42	2° \mathbb{Z} 45'19	
morning set	16382 May 31 03:15	13° \mathbb{I} 20'39		min. Earth dist.	16384 Dec 03 06:11	0° \mathbb{Z} 33'52	0.27803 AU
	16382 Jun 13 13:46	0° \mathbb{G}		inferior conj	16384 Dec 04 01:52	0° \mathbb{Z} 03'36	-7°47'03
max. Earth dist.	16382 Jul 06 21:10	29° \mathbb{G} 00'01	1.72050 AU	minimum elong	16384 Dec 03 16:04	0° \mathbb{Z} 18'40	7°44'48
	16382 Jul 07 16:25	0° \mathbb{O}			16384 Dec 04 04:12	30° \mathbb{R} \mathbb{X}	
				morning rise	16384 Dec 07 17:48	27° \mathbb{X} 50'49	
superior conj	16382 Jul 09 13:10	2° \mathbb{O} 19'36	-1°27'59	direct	16384 Dec 25 02:17	22° \mathbb{X} 12'35	
minimum elong	16382 Jul 09 13:15	2° \mathbb{O} 19'52	1°28'35	greatest brilliancy	16385 Jan 03 12:36	23° \mathbb{X} 50'32	-4.8m
	16382 Jul 31 16:56	0° \mathbb{M}			16385 Jan 15 21:40	0° \mathbb{Z}	
evening rise	16382 Aug 18 08:45	22° \mathbb{M} 05'05		morning max el	16385 Feb 12 05:52	22° \mathbb{Z} 42'46	45°52'32
greatest brilliancy	16382 Aug 22 13:57	27° \mathbb{M} 21'27	-3.9m	asc. node	16385 Feb 18 15:11	29° \mathbb{Z} 02'15	
	16382 Aug 24 16:41	0° \mathbb{L}			16385 Feb 19 14:00	0° \approx	
asc. node	16382 Sep 03 18:30	12° \mathbb{L} 35'40			16385 Mar 19 10:50	0° \mathbb{H}	
	16382 Sep 17 16:59	0° \mathbb{M}			16385 Apr 14 12:37	0° \mathbb{Y}	
	16382 Oct 11 19:22	0° \mathbb{X}			16385 May 09 18:54	0° \mathbb{B}	
	16382 Nov 05 02:14	0° \mathbb{Z}			16385 Jun 03 13:58	0° \mathbb{I}	
	16382 Nov 29 17:48	0° \approx		desc. node	16385 Jun 10 14:11	8° \mathbb{I} 33'39	
desc. node	16382 Dec 24 11:41	29° \approx 21'35			16385 Jun 28 01:08	0° \mathbb{G}	
	16382 Dec 25 00:52	0° \mathbb{H}			16385 Jul 22 06:25	0° \mathbb{O}	
	16383 Jan 20 11:30	0° \mathbb{Y}		morning set	16385 Aug 13 02:31	27° \mathbb{O} 13'34	
evening max el	16383 Feb 16 19:36	28° \mathbb{Y} 27'13	46°02'49		16385 Aug 15 07:47	0° \mathbb{M}	
	16383 Feb 18 10:14	0° \mathbb{B}			16385 Sep 08 07:07	0° \mathbb{L}	
greatest brilliancy	16383 Mar 27 18:41	27° \mathbb{B} 03'44	-4.8m				
retrograde	16383 Apr 06 23:56	28° \mathbb{B} 58'16		superior conj	16385 Sep 21 18:21	16° \mathbb{B} 52'18	-0°23'17
asc. node	16383 Apr 16 09:27	27° \mathbb{B} 11'02		minimum elong	16385 Sep 22 00:03	17° \mathbb{B} 10'11	0°22'52
evening set	16383 Apr 21 21:39	24° \mathbb{B} 35'49		max. Earth dist.	16385 Sep 21 13:59	16° \mathbb{B} 38'40	1.71565 AU
inferior conj	16383 Apr 28 04:34	20° \mathbb{B} 48'48	2°53'40	asc. node	16385 Oct 01 08:03	28° \mathbb{B} 51'49	
minimum elong	16383 Apr 27 22:18	20° \mathbb{B} 58'38	2°51'20		16385 Oct 02 05:49	0° \mathbb{M}	
min. Earth dist.	16383 Apr 28 01:50	20° \mathbb{B} 53'06	0.28337 AU		16385 Oct 26 04:52	0° \mathbb{X}	
morning rise	16383 May 03 22:55	17° \mathbb{B} 19'31		evening rise	16385 Oct 31 00:49	6° \mathbb{X} 02'30	
direct	16383 May 19 09:27	12° \mathbb{B} 38'55			16385 Nov 19 05:32	0° \mathbb{Z}	
greatest brilliancy	16383 May 29 17:35	14° \mathbb{B} 38'20	-4.8m		16385 Dec 13 09:54	0° \approx	
	16383 Jun 22 16:12	0° \mathbb{I}			16386 Jan 06 20:47	0° \mathbb{H}	
morning max el	16383 Jul 08 05:12	14° \mathbb{I} 22'19	46°26'55	desc. node	16386 Jan 21 00:26	17° \mathbb{H} 09'07	
	16383 Jul 23 07:03	0° \mathbb{G}			16386 Jan 31 17:11	0° \mathbb{Y}	
desc. node	16383 Aug 06 10:27	15° \mathbb{G} 36'48			16386 Feb 26 02:20	0° \mathbb{B}	
	16383 Aug 19 00:01	0° \mathbb{O}			16386 Mar 24 06:31	0° \mathbb{I}	
	16383 Sep 13 08:45	0° \mathbb{M}			16386 Apr 21 01:26	0° \mathbb{G}	
	16383 Oct 08 02:53	0° \mathbb{L}		evening max el	16386 Apr 28 23:10	7° \mathbb{G} 55'16	46°05'58
	16383 Nov 01 13:58	0° \mathbb{M}		asc. node	16386 May 13 19:59	21° \mathbb{G} 32'48	
	16383 Nov 25 21:19	0° \mathbb{X}			16386 May 24 20:29	0° \mathbb{O}	
asc. node	16383 Nov 27 07:59	1° \mathbb{X} 47'14		greatest brilliancy	16386 Jun 07 21:10	7° \mathbb{O} 23'05	-4.8m
	16383 Dec 20 02:25	0° \mathbb{Z}		retrograde	16386 Jun 17 09:06	9° \mathbb{O} 04'07	
morning set	16384 Jan 08 18:40	24° \mathbb{Z} 25'23		evening set	16386 Jul 05 13:18	2° \mathbb{O} 48'18	
	16384 Jan 13 06:31	0° \approx		inferior conj	16386 Jul 08 06:57	1° \mathbb{O} 06'24	9°04'31

minimum elong	16386 Jul 08 06:13	1°Ω07'33	9°03'54			16388 Dec 27 23:15	0°≈	
min. Earth dist.	16386 Jul 08 17:07	0°Ω50'27	0.27932 AU	evening rise		16389 Jan 10 02:07	16°≈17'21	
	16386 Jul 10 01:24	30°κϢ				16389 Jan 21 04:08	0°κ	
morning rise	16386 Jul 10 23:02	29°Ϣ26'32				16389 Feb 14 13:34	0°γ	
direct	16386 Jul 29 07:40	23°Ϣ00'06		desc. node		16389 Feb 17 13:50	3°γ41'03	
greatest brilliancy	16386 Aug 08 11:14	24°Ϣ55'46	-4.9m			16389 Mar 11 04:13	0°Ϣ	
	16386 Aug 18 12:53	0°Ω				16389 Apr 05 00:15	0°Π	
desc. node	16386 Sep 02 20:27	11°Ω38'41				16389 Apr 30 02:57	0°Ϣ	
morning max el	16386 Sep 17 17:59	25°Ω41'33	46°55'44			16389 May 25 17:18	0°Ω	
	16386 Sep 21 23:31	0°η		asc. node		16389 Jun 10 07:17	17°Ω45'34	
	16386 Oct 19 11:22	0°Ϣ				16389 Jun 21 09:00	0°η	
	16386 Nov 14 07:29	0°Π		evening max el		16389 Jul 10 15:53	20°η08'45	46°28'24
	16386 Dec 09 10:53	0°κ				16389 Jul 21 00:40	0°Ϣ	
asc. node	16386 Dec 24 19:45	18°κ34'55		greatest brilliancy		16389 Aug 19 15:03	20°Ϣ12'59	-4.9m
	16387 Jan 03 05:09	0°Ϣ		retrograde		16389 Aug 29 14:42	22°Ϣ05'01	
	16387 Jan 27 17:46	0°≈		evening set		16389 Sep 13 12:11	17°Ϣ43'11	
	16387 Feb 21 03:16	0°κ		inferior conj		16389 Sep 19 05:41	14°Ϣ21'44	2°51'04
	16387 Mar 17 11:32	0°γ		minimum elong		16389 Sep 19 12:08	14°Ϣ11'55	2°49'08
morning set	16387 Mar 18 22:04	1°γ46'27		min. Earth dist.		16389 Sep 19 14:18	14°Ϣ08'38	0.26953 AU
	16387 Apr 10 19:23	0°Ϣ		morning rise		16389 Sep 25 11:58	10°Ϣ42'47	
desc. node	16387 Apr 15 14:53	5°Ϣ56'18		desc. node		16389 Sep 30 06:27	8°Ϣ29'45	
max. Earth dist.	16387 Apr 24 15:13	17°Ϣ03'56	1.72969 AU	direct		16389 Oct 09 23:57	6°Ϣ34'26	
				greatest brilliancy		16389 Oct 20 03:27	8°Ϣ29'43	-4.9m
superior conj	16387 Apr 25 20:28	18°Ϣ34'15	-0°24'39			16389 Nov 20 04:25	0°Π	
minimum elong	16387 Apr 25 14:47	18°Ϣ16'41	0°24'49	morning max el		16389 Nov 29 01:02	8°Π25'31	46°34'30
	16387 May 05 02:33	0°Π				16389 Dec 19 18:52	0°κ	
	16387 May 29 08:25	0°Ϣ				16390 Jan 15 12:34	0°Ϣ	
evening rise	16387 Jun 03 05:52	6°Ϣ03'50		asc. node		16390 Jan 21 06:53	6°Ϣ40'02	
	16387 Jun 22 12:59	0°Ω				16390 Feb 10 03:22	0°≈	
	16387 Jul 16 17:15	0°η				16390 Mar 07 04:15	0°κ	
asc. node	16387 Aug 06 06:49	25°η28'07				16390 Mar 31 21:24	0°γ	
	16387 Aug 09 22:49	0°Ϣ				16390 Apr 25 09:57	0°Ϣ	
	16387 Sep 03 07:55	0°Π		desc. node		16390 May 13 03:50	21°Ϣ49'17	
	16387 Sep 28 00:13	0°κ				16390 May 19 18:58	0°Π	
	16387 Oct 23 07:14	0°Ϣ		morning set		16390 May 28 16:54	11°Π00'44	
	16387 Nov 18 22:42	0°≈				16390 Jun 13 00:39	0°Ϣ	
desc. node	16387 Nov 26 01:46	7°≈33'48		max. Earth dist.		16390 Jul 04 10:06	26°Ϣ36'48	1.72079 AU
evening max el	16387 Dec 05 07:24	16°≈55'54	46°22'47					
	16387 Dec 19 10:55	0°κ		superior conj		16390 Jul 07 02:04	29°Ϣ56'12	-1°27'54
greatest brilliancy	16388 Jan 13 22:15	16°κ20'20	-4.8m	minimum elong		16390 Jul 07 01:08	29°Ϣ53'18	1°28'30
retrograde	16388 Jan 23 23:30	18°κ11'44				16390 Jul 07 03:17	0°Ω	
evening set	16388 Feb 10 06:08	12°κ32'44				16390 Jul 31 03:51	0°η	
inferior conj	16388 Feb 14 10:04	9°κ59'30	-7°01'26	evening rise		16390 Aug 15 20:39	19°η37'53	
minimum elong	16388 Feb 14 20:27	9°κ43'16	6°59'09	greatest brilliancy		16390 Aug 22 13:51	28°η01'48	-3.9m
min. Earth dist.	16388 Feb 14 13:32	9°κ54'06	0.28590 AU			16390 Aug 24 03:41	0°Ϣ	
morning rise	16388 Feb 19 10:47	6°κ55'56		asc. node		16390 Sep 02 20:17	12°Ϣ06'39	
direct	16388 Mar 06 15:26	1°κ52'10				16390 Sep 17 04:10	0°Π	
greatest brilliancy	16388 Mar 17 06:49	3°κ55'30	-4.8m			16390 Oct 11 06:48	0°κ	
asc. node	16388 Mar 18 01:06	4°κ12'53				16390 Nov 04 14:02	0°Ϣ	
	16388 Apr 22 03:58	0°γ				16390 Nov 29 06:12	0°≈	
morning max el	16388 Apr 24 18:30	2°γ30'55	45°49'03	desc. node		16390 Dec 23 13:39	28°≈47'59	
	16388 May 21 00:10	0°Ϣ				16390 Dec 24 14:26	0°κ	
	16388 Jun 16 08:35	0°Π				16391 Jan 20 03:34	0°γ	
desc. node	16388 Jul 08 01:45	25°Π43'00		evening max el		16391 Feb 14 11:46	26°γ16'12	46°03'12
	16388 Jul 11 15:20	0°Ϣ				16391 Feb 18 09:49	0°Ϣ	
	16388 Aug 05 07:47	0°Ω		greatest brilliancy		16391 Mar 25 09:59	24°Ϣ50'15	-4.8m
	16388 Aug 29 15:51	0°η		retrograde		16391 Apr 04 15:06	26°Ϣ44'15	
	16388 Sep 22 19:20	0°Ϣ		asc. node		16391 Apr 15 11:14	24°Ϣ22'44	
	16388 Oct 16 20:38	0°Π		evening set		16391 Apr 19 12:28	22°Ϣ23'00	
morning set	16388 Oct 25 19:02	11°Π09'17		inferior conj		16391 Apr 25 20:00	18°Ϣ34'46	2°33'06
asc. node	16388 Oct 28 21:11	15°Π00'54		minimum elong		16391 Apr 25 14:26	18°Ϣ43'33	2°30'58
	16388 Nov 09 21:02	0°κ		min. Earth dist.		16391 Apr 25 17:29	18°Ϣ38'45	0.28342 AU
				morning rise		16391 May 01 16:23	15°Ϣ02'26	
superior conj	16388 Dec 03 13:26	29°κ34'58	1°13'39	direct		16391 May 17 01:22	10°Ϣ25'09	
minimum elong	16388 Dec 03 03:50	29°κ05'03	1°14'03	greatest brilliancy		16391 May 27 09:11	12°Ϣ24'09	-4.8m
	16388 Dec 03 21:27	0°Ϣ				16391 Jun 22 22:20	0°Π	
max. Earth dist.	16388 Dec 05 08:36	1°Ϣ49'41	1.72075 AU	morning max el		16391 Jul 05 19:56	12°Π05'23	46°25'18

	16391 Jul 23 00:46	0°☿			16394 Jan 31 05:17	0°♊	
desc. node	16391 Aug 05 12:24	14°☿58'09			16394 Feb 25 15:28	0°♋	
	16391 Aug 18 14:25	0°♌			16394 Mar 23 21:39	0°♍	
	16391 Sep 12 21:41	0°♎			16394 Apr 20 21:37	0°☿	
	16391 Oct 07 15:00	0°♏	evening max el		16394 Apr 26 12:30	5°☿35'29	46°05'32
	16391 Nov 01 01:35	0°♐	asc. node		16394 May 12 21:57	20°☿29'29	
	16391 Nov 25 08:36	0°♑			16394 May 26 00:13	0°♌	
asc. node	16391 Nov 26 09:48	1°♑18'01	greatest brilliancy		16394 Jun 05 10:39	5°♌04'00	-4.8m
	16391 Dec 19 13:28	0°♒	retrograde		16394 Jun 14 23:01	6°♌45'50	
morning set	16392 Jan 06 10:27	22°♒11'34	evening set		16394 Jul 03 01:57	0°♌31'44	
	16392 Jan 12 17:23	0°♓			16394 Jul 03 22:41	30°♌☿	
	16392 Feb 05 21:52	0°♈	inferior conj		16394 Jul 05 21:21	28°☿47'19	9°03'04
			minimum elong		16394 Jul 05 19:43	28°☿49'52	9°02'25
superior conj	16392 Feb 12 11:56	8°♈09'10	1°10'31	min. Earth dist.	16394 Jul 06 06:51	28°☿32'26	0.27965 AU
minimum elong	16392 Feb 12 21:33	8°♈38'53	1°10'32	morning rise	16394 Jul 08 13:22	27°☿07'38	
max. Earth dist.	16392 Feb 14 19:13	11°♈00'10	1.72903 AU	direct	16394 Jul 26 21:48	20°☿40'17	
	16392 Mar 01 04:12	0°♊		greatest brilliancy	16394 Aug 06 02:09	22°☿36'39	-4.9m
desc. node	16392 Mar 17 03:17	19°♊40'13			16394 Aug 19 16:00	0°♌	
evening rise	16392 Mar 21 06:35	24°♊45'47		desc. node	16394 Sep 01 22:20	10°♌36'24	
	16392 Mar 25 12:45	0°♋		morning max el	16394 Sep 15 08:27	23°♌21'12	46°55'31
	16392 Apr 18 22:55	0°♌			16394 Sep 21 20:06	0°♎	
	16392 May 13 10:06	0°☿			16394 Oct 19 02:55	0°♏	
	16392 Jun 06 22:53	0°♌			16394 Nov 13 20:57	0°♐	
	16392 Jul 01 15:37	0°♎			16394 Dec 08 23:12	0°♑	
asc. node	16392 Jul 07 19:36	7°♎26'01		asc. node	16394 Dec 23 21:44	18°♑04'56	
	16392 Jul 26 16:55	0°♏			16395 Jan 02 16:45	0°♒	
	16392 Aug 21 11:54	0°♐			16395 Jan 27 04:56	0°♓	
	16392 Sep 18 01:28	0°♑			16395 Feb 20 14:10	0°♈	
evening max el	16392 Sep 21 07:37	3°♑18'07	46°39'29	morning set	16395 Mar 16 14:27	29°♈35'51	
	16392 Oct 23 09:39	0°♒			16395 Mar 16 22:17	0°♊	
desc. node	16392 Oct 27 16:46	2°♒15'27			16395 Apr 10 06:04	0°♋	
greatest brilliancy	16392 Oct 30 17:10	3°♒32'48	-4.8m	desc. node	16395 Apr 14 16:42	5°♋28'55	
retrograde	16392 Nov 10 13:33	5°♒43'06		max. Earth dist.	16395 Apr 22 10:07	15°♋01'09	1.72987 AU
evening set	16392 Nov 27 00:37	0°♒31'02					
	16392 Nov 27 21:55	30°♌♑		superior conj	16395 Apr 23 11:29	16°♋19'27	-0°21'14
min. Earth dist.	16392 Nov 30 20:12	28°♑13'42	0.27752 AU	minimum elong	16395 Apr 23 06:32	16°♋04'09	0°21'25
inferior conj	16392 Dec 01 15:40	27°♑43'44	-7°35'12		16395 May 04 13:14	0°♌	
minimum elong	16392 Dec 01 05:29	27°♑59'26	7°32'48		16395 May 28 19:09	0°☿	
morning rise	16392 Dec 05 10:41	25°♑26'18		evening rise	16395 May 31 20:22	3°☿46'43	
direct	16392 Dec 22 15:28	19°♑53'25			16395 Jun 21 23:52	0°♌	
greatest brilliancy	16393 Jan 01 02:02	21°♑31'09	-4.8m		16395 Jul 16 04:20	0°♎	
	16393 Jan 16 22:15	0°♒		asc. node	16395 Aug 05 08:37	24°♎58'40	
morning max el	16393 Feb 09 18:37	20°♒21'42	45°53'32		16395 Aug 09 10:14	0°♏	
asc. node	16393 Feb 17 17:04	28°♒15'22			16395 Sep 02 19:50	0°♐	
	16393 Feb 19 09:59	0°♓			16395 Sep 27 12:57	0°♑	
	16393 Mar 19 01:50	0°♈			16395 Oct 22 21:30	0°♒	
	16393 Apr 14 01:38	0°♊			16395 Nov 18 16:27	0°♓	
	16393 May 09 06:57	0°♋		desc. node	16395 Nov 25 03:47	6°♓48'56	
	16393 Jun 03 01:27	0°♌		evening max el	16395 Dec 02 22:07	14°♓39'54	46°23'42
desc. node	16393 Jun 09 16:09	8°♌04'51			16395 Dec 19 18:19	0°♈	
	16393 Jun 27 12:19	0°☿		greatest brilliancy	16396 Jan 11 12:29	14°♈05'50	-4.8m
	16393 Jul 21 17:26	0°♌		retrograde	16396 Jan 21 15:17	15°♈58'38	
morning set	16393 Aug 10 14:48	24°♌47'48		evening set	16396 Feb 08 00:26	10°♈14'46	
	16393 Aug 14 18:44	0°♎		inferior conj	16396 Feb 12 01:22	7°♈46'11	-7°14'17
	16393 Sep 07 18:02	0°♏		minimum elong	16396 Feb 12 11:34	7°♈30'16	7°12'08
				min. Earth dist.	16396 Feb 12 04:09	7°♈41'51	0.28592 AU
superior conj	16393 Sep 19 06:39	14°♏26'24	-0°26'59	morning rise	16396 Feb 16 22:43	4°♈47'51	
minimum elong	16393 Sep 19 13:12	14°♏46'55	0°26'33		16396 Feb 29 02:30	30°♌♓	
max. Earth dist.	16393 Sep 18 21:00	13°♏56'12	1.71564 AU	direct	16396 Mar 04 06:44	29°♓39'00	
asc. node	16393 Sep 30 09:47	28°♏23'07			16396 Mar 08 13:17	0°♈	
	16393 Oct 01 16:43	0°♐		greatest brilliancy	16396 Mar 14 21:30	1°♈42'07	-4.8m
	16393 Oct 25 15:46	0°♑		asc. node	16396 Mar 17 02:58	2°♈35'41	
evening rise	16393 Oct 28 14:40	3°♑41'38			16396 Apr 22 02:36	0°♊	
	16393 Nov 18 16:30	0°♒		morning max el	16396 Apr 22 10:40	0°♊19'38	45°48'22
	16393 Dec 12 21:03	0°♓			16396 May 20 15:50	0°♋	
	16394 Jan 06 08:18	0°♈			16396 Jun 15 21:50	0°♌	
desc. node	16394 Jan 20 02:21	16°♈39'24		desc. node	16396 Jul 07 03:37	25°♌11'51	

	16396 Jul 11 03:27	0°☿			16399 Feb 18 10:04	0°♄	
	16396 Aug 04 19:17	0°♁		greatest brilliancy	16399 Mar 23 01:51	22°♄38'27	-4.8m
	16396 Aug 29 02:58	0°♊		retrograde	16399 Apr 02 05:50	24°♄31'28	
	16396 Sep 22 06:13	0°♋		asc. node	16399 Apr 14 13:13	21°♄31'03	
	16396 Oct 16 07:21	0°♌		evening set	16399 Apr 17 03:28	20°♄11'06	
morning set	16396 Oct 23 08:28	8°♌48'00		inferior conj	16399 Apr 23 11:30	16°♄22'07	2°12'20
asc. node	16396 Oct 27 23:02	14°♌33'20		minimum elong	16399 Apr 23 06:38	16°♄29'47	2°10'26
	16396 Nov 09 07:39	0°♍		min. Earth dist.	16399 Apr 23 09:30	16°♄25'16	0.28349 AU
				morning rise	16399 Apr 29 09:44	12°♄46'52	
superior conj	16396 Dec 01 04:15	27°♍18'24	1°11'40	direct	16399 May 14 16:54	8°♄12'40	
minimum elong	16396 Nov 30 18:19	26°♍47'22	1°12'03	greatest brilliancy	16399 May 25 01:23	10°♄11'51	-4.8m
max. Earth dist.	16396 Dec 02 23:06	29°♍32'09	1.72050 AU		16399 Jun 23 01:55	0°♅	
	16396 Dec 03 08:01	0°♆		morning max el	16399 Jul 03 09:41	9°♅47'17	46°23'40
	16396 Dec 27 09:49	0°♇			16399 Jul 22 17:37	0°☿	
evening rise	16397 Jan 07 17:31	14°♇03'33		desc. node	16399 Aug 04 14:13	14°☿20'43	
	16397 Jan 20 14:45	0°♈			16399 Aug 18 04:13	0°♁	
	16397 Feb 14 00:21	0°♉			16399 Sep 12 10:05	0°♊	
desc. node	16397 Feb 16 15:31	3°♉13'09			16399 Oct 07 02:38	0°♋	
	16397 Mar 10 15:20	0°♌			16399 Oct 31 12:43	0°♌	
	16397 Apr 04 11:55	0°♍			16399 Nov 24 19:22	0°♍	
	16397 Apr 29 15:31	0°☿		asc. node	16399 Nov 25 11:44	0°♍50'43	
	16397 May 25 07:26	0°♁			16399 Dec 18 23:58	0°♆	
asc. node	16397 Jun 09 09:14	17°♁07'07		morning set	16400 Jan 04 02:29	20°♆00'08	
	16397 Jun 21 02:31	0°♊			16400 Jan 12 03:43	0°♇	
evening max el	16397 Jul 08 06:37	17°♊50'34	46°27'45		16400 Feb 05 08:09	0°♈	
	16397 Jul 21 05:43	0°♋					
greatest brilliancy	16397 Aug 17 04:41	17°♋50'21	-4.9m	superior conj	16400 Feb 10 04:31	6°♈00'10	1°12'27
retrograde	16397 Aug 27 04:01	19°♋41'37		minimum elong	16400 Feb 10 13:52	6°♈29'04	1°12'32
evening set	16397 Sep 11 03:32	15°♋16'46		max. Earth dist.	16400 Feb 12 11:57	8°♈51'38	1.72882 AU
inferior conj	16397 Sep 16 18:31	11°♋58'19	3°13'59		16400 Feb 29 14:32	0°♉	
minimum elong	16397 Sep 17 01:44	11°♋47'19	3°11'50	desc. node	16400 Mar 16 05:06	19°♉13'51	
min. Earth dist.	16397 Sep 17 03:56	11°♋43'58	0.26964 AU	evening rise	16400 Mar 18 22:28	22°♉34'58	
morning rise	16397 Sep 22 23:50	8°♋20'31			16400 Mar 24 23:11	0°♌	
desc. node	16397 Sep 29 08:17	5°♋33'09			16400 Apr 18 09:31	0°♍	
direct	16397 Oct 07 13:33	4°♋10'48			16400 May 12 21:00	0°☿	
greatest brilliancy	16397 Oct 17 16:18	6°♋05'47	-4.9m		16400 Jun 06 10:14	0°♁	
	16397 Nov 20 06:53	0°♌			16400 Jul 01 03:42	0°♊	
morning max el	16397 Nov 26 15:14	6°♌06'34	46°35'44	asc. node	16400 Jul 06 21:24	6°♊54'28	
	16397 Dec 19 11:46	0°♍			16400 Jul 26 06:12	0°♋	
	16398 Jan 15 02:22	0°♆			16400 Aug 21 03:27	0°♌	
asc. node	16398 Jan 20 08:40	6°♆06'22			16400 Sep 17 22:49	0°♍	
	16398 Feb 09 15:41	0°♇		evening max el	16400 Sep 18 20:55	0°♍55'35	46°39'34
	16398 Mar 06 15:43	0°♈			16400 Oct 25 10:28	0°♆	
	16398 Mar 31 08:22	0°♉		desc. node	16400 Oct 26 18:48	0°♆36'14	
	16398 Apr 24 20:38	0°♌		greatest brilliancy	16400 Oct 28 08:02	1°♆14'06	-4.8m
desc. node	16398 May 12 05:43	21°♆22'23		retrograde	16400 Nov 08 03:19	3°♆23'57	
	16398 May 19 05:32	0°♍			16400 Nov 21 06:31	30°♇♍	
morning set	16398 May 26 06:24	8°♍41'32		evening set	16400 Nov 24 10:38	28°♍18'08	
	16398 Jun 12 11:11	0°☿		min. Earth dist.	16400 Nov 28 10:27	25°♍55'00	0.27699 AU
max. Earth dist.	16398 Jul 01 20:20	24°☿06'23	1.72111 AU	inferior conj	16400 Nov 29 05:33	25°♍25'39	-7°22'38
				minimum elong	16400 Nov 28 19:01	25°♍41'52	7°20'03
superior conj	16398 Jul 04 14:57	27°☿33'55	-1°27'40	morning rise	16400 Dec 03 03:41	23°♍03'39	
minimum elong	16398 Jul 04 13:02	27°☿27'55	1°28'16	direct	16400 Dec 20 04:20	17°♍35'52	
	16398 Jul 06 13:50	0°♁		greatest brilliancy	16400 Dec 29 16:01	19°♍14'09	-4.8m
	16398 Jul 30 14:25	0°♊			16401 Jan 17 15:24	0°♆	
evening rise	16398 Aug 13 08:31	17°♊11'44		morning max el	16401 Feb 07 07:34	18°♆02'50	45°54'38
	16398 Aug 23 14:20	0°♋		asc. node	16401 Feb 16 18:58	27°♆30'58	
greatest brilliancy	16398 Aug 26 19:15	4°♋00'19	-3.9m		16401 Feb 19 04:41	0°♇	
asc. node	16398 Sep 01 22:02	11°♋38'44			16401 Mar 18 16:05	0°♈	
	16398 Sep 16 14:56	0°♌			16401 Apr 13 14:06	0°♉	
	16398 Oct 10 17:46	0°♍			16401 May 08 18:31	0°♌	
	16398 Nov 04 01:21	0°♆			16401 Jun 02 12:31	0°♍	
	16398 Nov 28 18:09	0°♇		desc. node	16401 Jun 08 18:02	7°♍36'58	
desc. node	16398 Dec 22 15:29	28°♇15'13			16401 Jun 26 23:05	0°☿	
	16398 Dec 24 03:37	0°♈			16401 Jul 21 04:04	0°♁	
	16399 Jan 19 19:28	0°♉		morning set	16401 Aug 08 02:56	22°♁22'46	
evening max el	16399 Feb 12 03:19	24°♉04'44	46°03'28		16401 Aug 14 05:17	0°♊	

	16401 Sep 07 04:34	0°♄		minimum elong	16404 Feb 10 02:38	5°♁17'47	7°24'32
max. Earth dist.	16401 Sep 16 04:53	11°♄17'33	1.71567 AU	min. Earth dist.	16404 Feb 09 18:30	5°♁30'27	0.28587 AU
				morning rise	16404 Feb 14 10:32	2°♁40'19	
superior conj	16401 Sep 16 18:52	12°♄01'22	-0°30'37		16404 Feb 19 14:56	30°♁	
minimum elong	16401 Sep 17 02:14	12°♄24'25	0°30'12	direct	16404 Mar 01 22:29	27°♁26'31	
asc. node	16401 Sep 29 11:40	27°♄56'01		greatest brilliancy	16404 Mar 12 11:31	29°♁28'33	-4.8m
	16401 Oct 01 03:15	0°♄			16404 Mar 13 20:00	0°♁	
	16401 Oct 25 02:20	0°♁		asc. node	16404 Mar 16 04:56	1°♁02'31	
evening rise	16401 Oct 26 04:33	1°♁21'56		morning max el	16404 Apr 20 02:46	28°♁08'57	45°47'46
	16401 Nov 18 03:08	0°♁			16404 Apr 22 00:03	0°♁	
	16401 Dec 12 07:50	0°♁			16404 May 20 07:02	0°♁	
	16402 Jan 05 19:24	0°♁			16404 Jun 15 10:51	0°♁	
desc. node	16402 Jan 19 04:07	16°♁10'33		desc. node	16404 Jul 06 05:24	24°♁40'43	
	16402 Jan 30 16:57	0°♁			16404 Jul 10 15:28	0°♁	
	16402 Feb 25 04:12	0°♁			16404 Aug 04 06:46	0°♁	
	16402 Mar 23 12:33	0°♁			16404 Aug 28 14:08	0°♁	
	16402 Apr 20 18:04	0°♁			16404 Sep 21 17:10	0°♁	
evening max el	16402 Apr 24 02:33	3°♁18'40	46°05'00		16404 Oct 15 18:08	0°♁	
asc. node	16402 May 11 23:54	19°♁25'19		morning set	16404 Oct 20 21:40	6°♁25'44	
	16402 May 27 15:34	0°♁		asc. node	16404 Oct 27 00:54	14°♁05'37	
greatest brilliancy	16402 Jun 02 23:33	2°♁45'10	-4.8m		16404 Nov 08 18:19	0°♁	
retrograde	16402 Jun 12 13:24	4°♁28'21					
	16402 Jun 27 15:01	30°♁		superior conj	16404 Nov 28 18:50	25°♁00'50	1°09'34
evening set	16402 Jun 30 14:04	28°♁16'38		minimum elong	16404 Nov 28 08:36	24°♁28'55	1°09'54
inferior conj	16402 Jul 03 11:43	26°♁28'54	9°00'37	max. Earth dist.	16404 Nov 30 15:07	27°♁19'08	1.72023 AU
minimum elong	16402 Jul 03 09:11	26°♁32'52	8°59'55		16404 Dec 02 18:39	0°♁	
min. Earth dist.	16402 Jul 03 20:12	26°♁15'37	0.27997 AU		16404 Dec 26 20:27	0°♁	
morning rise	16402 Jul 06 04:12	24°♁48'39		evening rise	16405 Jan 05 08:52	11°♁49'15	
direct	16402 Jul 24 12:27	18°♁21'17			16405 Jan 20 01:28	0°♁	
greatest brilliancy	16402 Aug 03 16:36	20°♁17'53	-4.9m		16405 Feb 13 11:15	0°♁	
	16402 Aug 20 11:24	0°♁		desc. node	16405 Feb 15 17:23	2°♁45'28	
desc. node	16402 Sep 01 00:17	9°♁36'27			16405 Mar 10 02:33	0°♁	
morning max el	16402 Sep 12 23:35	21°♁03'30	46°55'13		16405 Apr 03 23:40	0°♁	
	16402 Sep 21 15:42	0°♁			16405 Apr 29 04:10	0°♁	
	16402 Oct 18 17:57	0°♁			16405 May 24 21:44	0°♁	
	16402 Nov 13 10:02	0°♁		asc. node	16405 Jun 08 11:02	16°♁27'42	
	16402 Dec 08 11:12	0°♁			16405 Jun 20 20:31	0°♁	
asc. node	16402 Dec 22 23:28	17°♁35'00		evening max el	16405 Jul 05 20:45	15°♁30'28	46°26'44
	16403 Jan 02 04:05	0°♁			16405 Jul 21 13:17	0°♁	
	16403 Jan 26 15:49	0°♁		greatest brilliancy	16405 Aug 14 18:39	15°♁27'07	-4.9m
	16403 Feb 20 00:46	0°♁		retrograde	16405 Aug 24 16:37	17°♁16'51	
morning set	16403 Mar 14 07:17	27°♁27'34		evening set	16405 Sep 08 18:53	12°♁48'53	
	16403 Mar 16 08:43	0°♁		inferior conj	16405 Sep 14 07:12	9°♁33'37	3°36'36
	16403 Apr 09 16:27	0°♁		minimum elong	16405 Sep 14 15:06	9°♁21'32	3°34'16
desc. node	16403 Apr 13 18:36	5°♁02'44		min. Earth dist.	16405 Sep 14 17:41	9°♁17'36	0.26981 AU
max. Earth dist.	16403 Apr 20 06:53	13°♁04'58	1.73006 AU	morning rise	16405 Sep 20 11:14	5°♁57'04	
				desc. node	16405 Sep 28 10:19	2°♁40'00	
superior conj	16403 Apr 21 02:48	14°♁06'26	-0°17'49	direct	16405 Oct 05 02:42	1°♁45'46	
minimum elong	16403 Apr 20 22:36	13°♁53'30	0°18'01	greatest brilliancy	16405 Oct 15 05:26	3°♁40'39	-4.9m
	16403 May 03 23:39	0°♁			16405 Nov 20 08:24	0°♁	
	16403 May 28 05:42	0°♁		morning max el	16405 Nov 24 04:18	3°♁43'35	46°37'04
evening rise	16403 May 29 11:01	1°♁30'47			16405 Dec 19 04:39	0°♁	
	16403 Jun 21 10:36	0°♁			16406 Jan 14 16:17	0°♁	
	16403 Jul 15 15:20	0°♁		asc. node	16406 Jan 19 10:35	5°♁32'27	
asc. node	16403 Aug 04 10:22	24°♁29'20			16406 Feb 09 04:08	0°♁	
	16403 Aug 08 21:33	0°♁			16406 Mar 06 03:21	0°♁	
	16403 Sep 02 07:40	0°♁			16406 Mar 30 19:32	0°♁	
	16403 Sep 27 01:40	0°♁			16406 Apr 24 07:32	0°♁	
	16403 Oct 22 11:50	0°♁		desc. node	16406 May 11 07:32	20°♁54'47	
	16403 Nov 18 10:32	0°♁			16406 May 18 16:18	0°♁	
desc. node	16403 Nov 24 05:38	6°♁03'15		morning set	16406 May 23 20:25	6°♁23'22	
evening max el	16403 Nov 30 13:40	12°♁26'08	46°24'37		16406 Jun 11 21:52	0°♁	
	16403 Dec 20 04:20	0°♁		max. Earth dist.	16406 Jun 29 06:41	21°♁35'53	1.72144 AU
greatest brilliancy	16404 Jan 09 02:42	11°♁51'45	-4.8m				
retrograde	16404 Jan 19 07:14	13°♁45'48		superior conj	16406 Jul 02 04:22	25°♁12'53	-1°27'16
evening set	16404 Feb 05 18:49	7°♁57'19		minimum elong	16406 Jul 02 01:30	25°♁03'57	1°27'52
inferior conj	16404 Feb 09 16:41	5°♁33'17	-7°26'33		16406 Jul 06 00:32	0°♁	

	16406 Jul 30 01:12	0°♍		morning max el	16409 Feb 04 21:11	15°♂43'43	45°55'47
evening rise	16406 Aug 10 20:39	14°♍45'40		asc. node	16409 Feb 15 20:57	26°♂45'39	
	16406 Aug 23 01:14	0°♌			16409 Feb 18 23:32	0°♌	
asc. node	16406 Aug 31 23:58	11°♌10'31			16409 Mar 18 06:44	0°♋	
	16406 Sep 16 02:02	0°♌			16409 Apr 13 02:59	0°♍	
	16406 Oct 10 05:07	0°♌			16409 May 08 06:29	0°♎	
	16406 Nov 03 13:06	0°♏			16409 Jun 01 23:59	0°♎	
	16406 Nov 28 06:35	0°♏		desc. node	16409 Jun 07 19:44	7°♎07'16	
desc. node	16406 Dec 21 17:17	27°♏40'57			16409 Jun 26 10:16	0°♏	
	16406 Dec 23 17:21	0°♋			16409 Jul 20 15:04	0°♏	
	16407 Jan 19 12:07	0°♍		morning set	16409 Aug 05 15:24	19°♏57'39	
evening max el	16407 Feb 09 17:48	21°♍49'30 46°03'51			16409 Aug 13 16:13	0°♍	
	16407 Feb 18 12:10	0°♎			16409 Sep 06 15:26	0°♌	
greatest brilliancy	16407 Mar 20 17:52	20°♎25'40 -4.8m		max. Earth dist.	16409 Sep 13 16:05	8°♌48'19	1.71568 AU
retrograde	16407 Mar 30 20:30	22°♎17'49					
asc. node	16407 Apr 13 15:12	18°♎34'17		superior conj	16409 Sep 14 07:27	9°♌36'27	-0°34'10
evening set	16407 Apr 14 18:38	17°♎57'45		minimum elong	16409 Sep 14 15:34	10°♌01'53	0°33'45
inferior conj	16407 Apr 21 02:59	14°♎08'31 1°51'25		asc. node	16409 Sep 28 13:29	27°♌27'45	
minimum elong	16407 Apr 20 22:51	14°♎15'01 1°49'44			16409 Sep 30 14:06	0°♌	
min. Earth dist.	16407 Apr 21 01:44	14°♎10'30 0.28353 AU		evening rise	16409 Oct 23 18:44	29°♌02'16	
morning rise	16407 Apr 27 02:56	10°♎30'37			16409 Oct 24 13:12	0°♌	
direct	16407 May 12 07:56	5°♎59'04			16409 Nov 17 14:07	0°♏	
greatest brilliancy	16407 May 22 18:01	7°♎59'11 -4.8m			16409 Dec 11 19:03	0°♏	
	16407 Jun 23 04:14	0°♎			16410 Jan 05 06:59	0°♋	
morning max el	16407 Jun 30 23:18	7°♎28'04 46°22'18		desc. node	16410 Jan 18 05:58	15°♋40'23	
	16407 Jul 22 10:22	0°♏			16410 Jan 30 05:11	0°♍	
desc. node	16407 Aug 03 16:11	13°♏43'21			16410 Feb 24 17:35	0°♎	
	16407 Aug 17 18:07	0°♏			16410 Mar 23 04:13	0°♎	
	16407 Sep 11 22:42	0°♍			16410 Apr 20 15:53	0°♏	
	16407 Oct 06 14:34	0°♌		evening max el	16410 Apr 21 17:22	1°♏02'24	46°04'37
	16407 Oct 31 00:14	0°♌		asc. node	16410 May 11 01:42	18°♏17'40	
	16407 Nov 24 06:34	0°♌			16410 May 30 08:49	0°♏	
asc. node	16407 Nov 24 13:29	0°♌21'26		greatest brilliancy	16410 May 31 12:06	0°♏24'44	-4.8m
	16407 Dec 18 10:56	0°♏		retrograde	16410 Jun 10 03:59	2°♏09'25	
morning set	16408 Jan 01 17:53	17°♏45'10			16410 Jun 20 11:00	30°♎09'25	
	16408 Jan 11 14:32	0°♏		evening set	16410 Jun 28 01:48	26°♏00'46	
	16408 Feb 04 18:53	0°♋		inferior conj	16410 Jul 01 02:00	24°♏09'07	8°57'26
				minimum elong	16410 Jun 30 22:36	24°♏14'25	8°56'39
superior conj	16408 Feb 07 20:39	3°♋48'20 1°14'19		min. Earth dist.	16410 Jul 01 09:11	23°♏57'54	0.28024 AU
minimum elong	16408 Feb 08 05:41	4°♋16'18 1°14'25		morning rise	16410 Jul 03 19:21	22°♏27'39	
max. Earth dist.	16408 Feb 10 03:17	6°♋37'23 1.72858 AU		direct	16410 Jul 22 03:30	16°♏01'11	
	16408 Feb 29 01:18	0°♍		greatest brilliancy	16410 Aug 01 06:22	17°♏57'09	-4.9m
desc. node	16408 Mar 15 06:58	18°♍46'21			16410 Aug 21 02:19	0°♏	
evening rise	16408 Mar 16 14:05	20°♍22'04		desc. node	16410 Aug 31 02:13	8°♏36'47	
	16408 Mar 24 10:04	0°♎		morning max el	16410 Sep 10 15:02	18°♏45'43	46°55'01
	16408 Apr 17 20:36	0°♎			16410 Sep 21 11:05	0°♍	
	16408 May 12 08:21	0°♏			16410 Oct 18 09:02	0°♌	
	16408 Jun 05 22:02	0°♏			16410 Nov 12 23:15	0°♌	
	16408 Jun 30 16:12	0°♍			16410 Dec 07 23:23	0°♌	
asc. node	16408 Jul 05 23:15	6°♍21'54		asc. node	16410 Dec 22 01:21	17°♌04'50	
	16408 Jul 25 19:54	0°♌			16411 Jan 01 15:38	0°♏	
	16408 Aug 20 19:34	0°♌			16411 Jan 26 03:00	0°♏	
evening max el	16408 Sep 16 09:54	28°♌31'20 46°39'31			16411 Feb 19 11:43	0°♋	
	16408 Sep 17 21:26	0°♌		morning set	16411 Mar 11 23:52	25°♋17'21	
desc. node	16408 Oct 25 20:38	28°♌51'19			16411 Mar 15 19:32	0°♍	
greatest brilliancy	16408 Oct 25 22:04	28°♌52'42 -4.8m			16411 Apr 09 03:13	0°♎	
	16408 Oct 29 07:21	0°♏		desc. node	16411 Apr 12 20:19	4°♎34'50	
retrograde	16408 Nov 05 17:08	1°♏02'59		max. Earth dist.	16411 Apr 18 02:47	11°♎04'59	1.73020 AU
	16408 Nov 12 22:13	30°♎02'59					
evening set	16408 Nov 21 20:29	26°♌02'50		superior conj	16411 Apr 18 17:48	11°♎51'20	-0°14'21
min. Earth dist.	16408 Nov 26 00:23	23°♌34'19 0.27654 AU		minimum elong	16411 Apr 18 14:24	11°♎40'50	0°14'33
inferior conj	16408 Nov 26 19:14	23°♌05'25 -7°09'05		behind sun begin	16411 Apr 18 04:26	11°♎10'04	
minimum elong	16408 Nov 26 08:26	23°♌21'59 7°06'19		behind sun end	16411 Apr 19 00:22	12°♎11'36	
morning rise	16408 Nov 30 20:39	20°♌38'51			16411 May 03 10:26	0°♎	
direct	16408 Dec 17 17:09	15°♌15'53		evening rise	16411 May 27 01:26	29°♎13'02	
greatest brilliancy	16408 Dec 27 05:57	16°♌55'04 -4.8m			16411 May 27 16:36	0°♏	
	16409 Jan 18 05:01	0°♏			16411 Jun 20 21:41	0°♏	

	16411 Jul 15 02:39	0°♍		16413 Dec 18 21:09	0°♊	
asc. node	16411 Aug 03 12:19	23°♍59'37		16414 Jan 14 05:58	0°♊	
	16411 Aug 08 09:13	0°♌	asc. node	16414 Jan 18 12:32	4°♊59'06	
	16411 Sep 01 19:50	0°♍		16414 Feb 08 16:24	0°♋	
	16411 Sep 26 14:41	0°♊		16414 Mar 05 14:50	0°♌	
	16411 Oct 22 02:30	0°♋		16414 Mar 30 06:35	0°♍	
	16411 Nov 18 05:12	0°♎		16414 Apr 23 18:21	0°♎	
desc. node	16411 Nov 23 07:28	5°♎16'29	desc. node	16414 May 10 09:19	20°♎27'09	
evening max el	16411 Nov 28 05:26	10°♎12'29 46°25'25		16414 May 18 03:02	0°♏	
	16411 Dec 20 18:02	0°♌	morning set	16414 May 21 10:14	4°♏04'39	
greatest brilliancy	16412 Jan 06 17:12	9°♌37'43 -4.8m		16414 Jun 11 08:34	0°♏	
retrograde	16412 Jan 16 22:56	11°♌32'26	max. Earth dist.	16414 Jun 26 16:52	19°♏04'50 1.72181 AU	
evening set	16412 Feb 03 13:13	5°♌39'39				
inferior conj	16412 Feb 07 08:03	3°♌19'56 -7°38'09	superior conj	16414 Jun 29 17:30	22°♏50'59 -1°26'42	
minimum elong	16412 Feb 07 17:41	3°♌04'55 7°36'15	minimum elong	16414 Jun 29 13:42	22°♏39'07 1°27'18	
min. Earth dist.	16412 Feb 07 08:53	3°♌18'39 0.28585 AU		16414 Jul 05 11:14	0°♏	
morning rise	16412 Feb 11 22:17	0°♌32'16		16414 Jul 29 11:57	0°♍	
	16412 Feb 12 20:55	30°♌	evening rise	16414 Aug 08 08:27	12°♍18'46	
direct	16412 Feb 28 14:30	25°♌13'41		16414 Aug 22 12:06	0°♌	
greatest brilliancy	16412 Mar 10 01:25	27°♌14'05 -4.8m	asc. node	16414 Aug 31 01:43	10°♌41'56	
asc. node	16412 Mar 15 06:52	29°♌31'47		16414 Sep 15 13:04	0°♍	
	16412 Mar 16 04:39	0°♌		16414 Oct 09 16:24	0°♊	
morning max el	16412 Apr 17 18:12	25°♌55'38 45°47'02		16414 Nov 03 00:45	0°♋	
	16412 Apr 21 21:05	0°♍		16414 Nov 27 18:56	0°♎	
	16412 May 19 22:21	0°♎	desc. node	16414 Dec 20 19:15	27°♎07'26	
	16412 Jun 15 00:04	0°♏		16414 Dec 23 07:02	0°♌	
desc. node	16412 Jul 05 07:23	24°♏09'32		16415 Jan 19 04:50	0°♍	
	16412 Jul 10 03:39	0°♏	evening max el	16415 Feb 07 07:47	19°♍33'59 46°04'23	
	16412 Aug 03 18:25	0°♏		16415 Feb 18 15:24	0°♎	
	16412 Aug 28 01:26	0°♍	greatest brilliancy	16415 Mar 18 09:37	18°♎13'47 -4.8m	
	16412 Sep 21 04:14	0°♌	retrograde	16415 Mar 28 11:34	20°♎05'45	
	16412 Oct 15 05:02	0°♍	evening set	16415 Apr 12 10:06	15°♎45'20	
morning set	16412 Oct 18 11:00	4°♍03'29	asc. node	16415 Apr 12 16:59	15°♎35'53	
asc. node	16412 Oct 26 02:39	13°♍37'10	inferior conj	16415 Apr 18 18:38	11°♎56'15 1°30'23	
	16412 Nov 08 05:06	0°♊	minimum elong	16415 Apr 18 15:16	12°♎01'33 1°28'57	
			min. Earth dist.	16415 Apr 18 18:02	11°♎57'12 0.28364 AU	
superior conj	16412 Nov 26 09:39	22°♊43'47 1°07'21	morning rise	16415 Apr 24 20:12	8°♎16'05	
minimum elong	16412 Nov 25 23:12	22°♊11'10 1°07'39	direct	16415 May 09 23:04	3°♎46'35	
max. Earth dist.	16412 Nov 28 06:41	25°♊04'25 1.71990 AU	greatest brilliancy	16415 May 20 11:03	5°♎48'06 -4.8m	
	16412 Dec 02 05:21	0°♋		16415 Jun 23 04:55	0°♏	
	16412 Dec 26 07:08	0°♎	morning max el	16415 Jun 28 13:43	5°♏11'22 46°20'46	
evening rise	16413 Jan 03 00:28	9°♎35'36		16415 Jul 22 02:42	0°♏	
	16413 Jan 19 12:13	0°♌	desc. node	16415 Aug 02 18:06	13°♏06'24	
	16413 Feb 12 22:12	0°♍		16415 Aug 17 07:47	0°♏	
desc. node	16413 Feb 14 19:17	2°♍17'45		16415 Sep 11 11:09	0°♍	
	16413 Mar 09 13:53	0°♎		16415 Oct 06 02:18	0°♌	
	16413 Apr 03 11:36	0°♏		16415 Oct 30 11:30	0°♍	
	16413 Apr 28 17:04	0°♏	asc. node	16415 Nov 23 15:21	29°♍53'18	
	16413 May 24 12:24	0°♏		16415 Nov 23 17:30	0°♊	
asc. node	16413 Jun 07 12:57	15°♏47'40		16415 Dec 17 21:38	0°♋	
	16413 Jun 20 15:09	0°♍	morning set	16415 Dec 30 09:19	15°♋31'01	
evening max el	16413 Jul 03 09:47	13°♍07'16 46°25'49		16416 Jan 11 01:04	0°♎	
	16413 Jul 21 23:49	0°♌		16416 Feb 04 05:22	0°♌	
greatest brilliancy	16413 Aug 12 09:07	13°♌04'18 -4.9m				
retrograde	16413 Aug 22 04:51	14°♌52'04	superior conj	16416 Feb 05 13:03	1°♌38'08 1°16'03	
evening set	16413 Sep 06 10:24	10°♌20'40	minimum elong	16416 Feb 05 21:43	2°♌04'58 1°16'11	
inferior conj	16413 Sep 11 19:56	7°♌08'59 3°58'49	max. Earth dist.	16416 Feb 07 18:47	4°♌24'29 1.72832 AU	
minimum elong	16413 Sep 12 04:29	6°♌55'54 3°56'18		16416 Feb 28 11:46	0°♍	
min. Earth dist.	16413 Sep 12 07:44	6°♌50'55 0.26998 AU	evening rise	16416 Mar 14 06:08	18°♍11'29	
morning rise	16413 Sep 17 22:24	3°♌33'57	desc. node	16416 Mar 14 08:43	18°♍19'25	
	16413 Sep 26 22:22	30°♌		16416 Mar 23 20:37	0°♎	
desc. node	16413 Sep 27 12:12	29°♍52'26		16416 Apr 17 07:20	0°♏	
direct	16413 Oct 02 15:17	29°♍20'36		16416 May 11 19:24	0°♏	
	16413 Oct 08 11:27	0°♌		16416 Jun 05 09:35	0°♏	
greatest brilliancy	16413 Oct 12 19:06	1°♌16'03 -4.9m		16416 Jun 30 04:33	0°♍	
	16413 Nov 20 08:38	0°♍	asc. node	16416 Jul 05 01:10	5°♍50'03	
morning max el	16413 Nov 21 16:44	1°♍18'53 46°38'30		16416 Jul 25 09:34	0°♌	

	16416 Aug 20 11:48	0°♌				16419 Apr 08 13:34	0°♄	
evening max el	16416 Sep 13 23:29	26°♌09'14	46°39'39	desc. node		16419 Apr 11 22:09	4°♄08'30	
	16416 Sep 17 20:49	0°♌						
greatest brilliancy	16416 Oct 23 11:38	26°♌31'22	-4.9m	superior conj		16419 Apr 16 09:07	9°♄38'28	-0°10'52
desc. node	16416 Oct 24 22:30	27°♌03'02		minimum elong		16419 Apr 16 06:31	9°♄30'26	0°11'06
retrograde	16416 Nov 03 07:29	28°♌42'42		behind sun begin		16419 Apr 15 13:11	8°♄36'56	
evening set	16416 Nov 19 06:26	23°♌47'52		behind sun end		16419 Apr 16 23:51	10°♄23'56	
min. Earth dist.	16416 Nov 23 13:56	21°♌14'35	0.27605 AU	max. Earth dist.		16419 Apr 15 21:23	9°♄02'15	1.73030 AU
inferior conj	16416 Nov 24 08:50	20°♌45'42	-6°54'42			16419 May 02 20:50	0°♐	
minimum elong	16416 Nov 23 21:51	21°♌02'29	6°51'48	evening rise		16419 May 24 16:15	26°♐57'54	
morning rise	16416 Nov 28 13:35	18°♌14'44				16419 May 27 03:05	0°♑	
direct	16416 Dec 15 06:18	12°♌56'33				16419 Jun 20 08:19	0°♒	
greatest brilliancy	16416 Dec 24 19:14	14°♌36'12	-4.8m			16419 Jul 14 13:31	0°♓	
	16417 Jan 18 14:39	0°♑		asc. node		16419 Aug 02 14:07	23°♓30'48	
morning max el	16417 Feb 02 11:41	13°♑27'57	45°57'00			16419 Aug 07 20:26	0°♈	
asc. node	16417 Feb 14 22:50	26°♑01'50				16419 Sep 01 07:39	0°♌	
	16417 Feb 18 17:28	0°♒				16419 Sep 26 03:28	0°♌	
	16417 Mar 17 20:47	0°♒				16419 Oct 21 17:05	0°♑	
	16417 Apr 12 15:21	0°♑				16419 Nov 18 00:12	0°♒	
	16417 May 07 17:59	0°♄		desc. node		16419 Nov 22 09:29	4°♒29'57	
	16417 Jun 01 10:59	0°♐		evening max el		16419 Nov 25 20:45	7°♒58'04	46°26'08
desc. node	16417 Jun 06 21:44	6°♐39'52				16419 Dec 21 12:15	0°♒	
	16417 Jun 25 21:01	0°♑		greatest brilliancy		16420 Jan 04 08:20	7°♒24'41	-4.8m
	16417 Jul 20 01:43	0°♒		retrograde		16420 Jan 14 14:08	9°♒19'13	
morning set	16417 Aug 03 03:50	17°♒33'28		evening set		16420 Feb 01 07:29	3°♒22'28	
	16417 Aug 13 02:49	0°♓		inferior conj		16420 Feb 04 23:18	1°♒07'02	-7°49'05
	16417 Sep 06 02:02	0°♈		minimum elong		16420 Feb 05 08:33	0°♒52'36	7°47'19
max. Earth dist.	16417 Sep 11 03:48	6°♈21'27	1.71574 AU	min. Earth dist.		16420 Feb 04 23:22	1°♒06'56	0.28577 AU
						16420 Feb 06 18:26	30°♒	
superior conj	16417 Sep 11 19:36	7°♈10'57	-0°37'43	morning rise		16420 Feb 09 09:47	28°♒24'41	
minimum elong	16417 Sep 12 04:25	7°♈38'35	0°37'16	direct		16420 Feb 26 05:59	23°♒01'27	
asc. node	16417 Sep 27 15:15	27°♈00'08		greatest brilliancy		16420 Mar 07 15:14	25°♒00'07	-4.8m
	16417 Sep 30 00:41	0°♌		asc. node		16420 Mar 14 08:45	28°♒04'39	
evening rise	16417 Oct 21 08:24	26°♌41'47				16420 Mar 17 16:24	0°♒	
	16417 Oct 23 23:48	0°♌		morning max el		16420 Apr 15 08:38	23°♒40'50	45°46'28
	16417 Nov 17 00:49	0°♑				16420 Apr 21 17:00	0°♑	
	16417 Dec 11 05:57	0°♒				16420 May 19 13:03	0°♄	
	16418 Jan 04 18:15	0°♒				16420 Jun 14 12:47	0°♐	
desc. node	16418 Jan 17 07:53	15°♒11'25		desc. node		16420 Jul 04 09:14	23°♐39'19	
	16418 Jan 29 17:05	0°♑				16420 Jul 09 15:25	0°♑	
	16418 Feb 24 06:39	0°♄				16420 Aug 03 05:37	0°♒	
	16418 Mar 22 19:39	0°♐				16420 Aug 27 12:19	0°♓	
evening max el	16418 Apr 19 09:00	28°♐49'49	46°04'17			16420 Sep 20 14:54	0°♈	
	16418 Apr 20 13:55	0°♑				16420 Oct 14 15:35	0°♌	
asc. node	16418 May 10 03:43	17°♑10'24		morning set		16420 Oct 16 00:24	1°♌42'29	
greatest brilliancy	16418 May 29 01:07	28°♑07'10	-4.8m	asc. node		16420 Oct 25 04:31	13°♌10'11	
retrograde	16418 Jun 07 18:47	29°♑52'52				16420 Nov 07 15:36	0°♌	
evening set	16418 Jun 25 13:33	23°♑48'07						
inferior conj	16418 Jun 28 16:37	21°♑51'52	8°53'22	superior conj		16420 Nov 24 00:17	20°♌26'57	1°05'00
minimum elong	16418 Jun 28 12:24	21°♑58'27	8°52'29	minimum elong		16420 Nov 23 13:41	19°♌53'52	1°05'17
min. Earth dist.	16418 Jun 28 22:25	21°♑42'47	0.28050 AU	max. Earth dist.		16420 Nov 25 19:19	22°♌41'21	1.71964 AU
morning rise	16418 Jul 01 11:12	20°♑08'24				16420 Dec 01 15:49	0°♑	
direct	16418 Jul 19 18:54	13°♑43'53				16420 Dec 25 17:36	0°♒	
greatest brilliancy	16418 Jul 29 20:03	15°♑38'29	-4.9m	evening rise		16420 Dec 31 15:42	7°♒21'20	
	16418 Aug 21 12:39	0°♒				16421 Jan 18 22:46	0°♒	
desc. node	16418 Aug 30 04:07	7°♒39'51		desc. node		16421 Feb 12 08:58	0°♑	
morning max el	16418 Sep 08 06:14	16°♒28'42	46°54'22			16421 Feb 13 21:00	1°♑50'04	
	16418 Sep 21 05:30	0°♓				16421 Mar 09 01:01	0°♄	
	16418 Oct 17 23:36	0°♈				16421 Apr 02 23:20	0°♐	
	16418 Nov 12 12:06	0°♌				16421 Apr 28 05:47	0°♑	
	16418 Dec 07 11:14	0°♌				16421 May 24 02:56	0°♒	
asc. node	16418 Dec 21 03:20	16°♌35'55		asc. node		16421 Jun 06 14:55	15°♒08'16	
	16419 Jan 01 02:52	0°♑				16421 Jun 20 09:55	0°♓	
	16419 Jan 25 13:48	0°♒		evening max el		16421 Jun 30 22:21	10°♓44'03	46°25'03
	16419 Feb 18 22:16	0°♒				16421 Jul 22 13:15	0°♈	
morning set	16419 Mar 09 16:32	23°♒08'37		greatest brilliancy		16421 Aug 09 23:59	10°♈43'38	-4.9m
	16419 Mar 15 05:57	0°♑		retrograde		16421 Aug 19 17:20	12°♈29'41	

evening set	16421 Sep 04 02:20	7° Ω 54'16			16424 Feb 03 15:53	0° \mathbb{H}	
inferior conj	16421 Sep 09 09:02	4° Ω 46'36	4°20'17	max. Earth dist.	16424 Feb 05 11:52	2° \mathbb{H} 16'11	1.72814 AU
minimum elong	16421 Sep 09 18:10	4° Ω 32'37	4°17'37		16424 Feb 27 22:22	0° Υ	
min. Earth dist.	16421 Sep 09 22:12	4° Ω 26'26	0.27018 AU	evening rise	16424 Mar 11 22:02	16° Υ 00'01	
morning rise	16421 Sep 15 09:43	1° Ω 13'29		desc. node	16424 Mar 13 10:34	17° Υ 52'22	
	16421 Sep 17 19:24	30° \mathbb{R} \mathbb{M}			16424 Mar 23 07:20	0° \mathbb{B}	
desc. node	16421 Sep 26 14:04	27° \mathbb{M} 12'51			16424 Apr 16 18:15	0° \mathbb{I}	
direct	16421 Sep 30 03:51	26° \mathbb{M} 57'25			16424 May 11 06:39	0° \mathbb{E}	
greatest brilliancy	16421 Oct 10 09:22	28° \mathbb{M} 54'00	-4.9m		16424 Jun 04 21:20	0° Ω	
	16421 Oct 13 02:36	0° Ω			16424 Jun 29 17:06	0° \mathbb{M}	
morning max el	16421 Nov 19 05:37	28° Ω 56'16	46°39'45	asc. node	16424 Jul 04 02:58	5° \mathbb{M} 17'16	
	16421 Nov 20 07:20	0° \mathbb{L}			16424 Jul 24 23:29	0° Ω	
	16421 Dec 18 13:04	0° \mathbb{A}			16424 Aug 20 04:29	0° \mathbb{L}	
	16422 Jan 13 19:21	0° \mathbb{B}		evening max el	16424 Sep 11 14:03	23° \mathbb{L} 49'13	46°39'45
asc. node	16422 Jan 17 14:21	4° \mathbb{B} 25'57			16424 Sep 17 21:31	0° \mathbb{A}	
	16422 Feb 08 04:30	0° \approx		greatest brilliancy	16424 Oct 21 01:05	24° \mathbb{A} 09'28	-4.9m
	16422 Mar 05 02:12	0° \mathbb{H}		desc. node	16424 Oct 24 00:34	25° \mathbb{A} 10'13	
	16422 Mar 29 17:31	0° Υ		retrograde	16424 Oct 31 22:12	26° \mathbb{A} 21'48	
	16422 Apr 23 05:03	0° \mathbb{B}		evening set	16424 Nov 16 16:30	21° \mathbb{A} 32'13	
desc. node	16422 May 09 11:13	20° \mathbb{B} 00'20		min. Earth dist.	16424 Nov 21 03:16	18° \mathbb{A} 54'30	0.27555 AU
	16422 May 17 13:36	0° \mathbb{I}		inferior conj	16424 Nov 21 22:22	18° \mathbb{A} 25'21	-6°39'29
morning set	16422 May 19 00:04	1° \mathbb{I} 46'26		minimum elong	16424 Nov 21 11:18	18° \mathbb{A} 42'16	6°36'28
	16422 Jun 10 19:07	0° \mathbb{E}		morning rise	16424 Nov 26 06:29	15° \mathbb{A} 49'59	
max. Earth dist.	16422 Jun 24 05:56	16° \mathbb{E} 43'19	1.72218 AU	direct	16424 Dec 12 19:54	10° \mathbb{A} 36'49	
				greatest brilliancy	16424 Dec 22 07:53	12° \mathbb{A} 16'11	-4.8m
superior conj	16422 Jun 27 06:44	20° \mathbb{E} 29'53	-1°25'59		16425 Jan 18 21:44	0° \mathbb{B}	
minimum elong	16422 Jun 27 02:01	20° \mathbb{E} 15'10	1°26'34	morning max el	16425 Jan 31 02:24	11° \mathbb{B} 12'22	45°58'09
	16422 Jul 04 21:47	0° Ω		asc. node	16425 Feb 14 00:43	25° \mathbb{B} 18'14	
	16422 Jul 28 22:35	0° \mathbb{M}			16425 Feb 18 11:07	0° \approx	
evening rise	16422 Aug 05 20:31	9° \mathbb{M} 53'15			16425 Mar 17 10:53	0° \mathbb{H}	
	16422 Aug 21 22:50	0° Ω			16425 Apr 12 03:55	0° Υ	
asc. node	16422 Aug 30 03:30	10° Ω 13'54			16425 May 07 05:45	0° \mathbb{B}	
	16422 Sep 14 23:57	0° \mathbb{L}			16425 May 31 22:19	0° \mathbb{I}	
	16422 Oct 09 03:31	0° \mathbb{A}		desc. node	16425 Jun 05 23:34	6° \mathbb{I} 11'02	
	16422 Nov 02 12:17	0° \mathbb{B}			16425 Jun 25 08:04	0° \mathbb{E}	
	16422 Nov 27 07:13	0° \approx			16425 Jul 19 12:38	0° Ω	
desc. node	16422 Dec 19 21:05	26° \approx 33'34		morning set	16425 Jul 31 16:03	15° Ω 07'57	
	16422 Dec 22 20:48	0° \mathbb{H}			16425 Aug 12 13:40	0° \mathbb{M}	
	16423 Jan 18 21:57	0° Υ			16425 Sep 05 12:51	0° Ω	
evening max el	16423 Feb 04 22:09	17° Υ 19'11	46°04'50	max. Earth dist.	16425 Sep 08 16:24	3° Ω 56'39	1.71578 AU
	16423 Feb 18 20:42	0° \mathbb{B}					
greatest brilliancy	16423 Mar 16 00:47	16° \mathbb{B} 00'36	-4.8m	superior conj	16425 Sep 09 07:37	4° Ω 44'19	-0°41'10
retrograde	16423 Mar 26 02:56	17° \mathbb{B} 52'58		minimum elong	16425 Sep 09 17:04	5° Ω 13'55	0°40'45
evening set	16423 Apr 10 01:34	13° \mathbb{B} 31'49		asc. node	16425 Sep 26 17:08	26° Ω 32'07	
asc. node	16423 Apr 11 19:00	12° \mathbb{B} 33'14			16425 Sep 29 11:31	0° \mathbb{L}	
inferior conj	16423 Apr 16 10:05	9° \mathbb{B} 43'08	1°09'02	evening rise	16425 Oct 18 22:02	24° \mathbb{L} 20'15	
minimum elong	16423 Apr 16 07:29	9° \mathbb{B} 47'12	1°07'53		16425 Oct 23 10:42	0° \mathbb{A}	
min. Earth dist.	16423 Apr 16 09:57	9° \mathbb{B} 43'20	0.28374 AU		16425 Nov 16 11:49	0° \mathbb{B}	
morning rise	16423 Apr 22 13:10	6° \mathbb{B} 01'09			16425 Dec 10 17:09	0° \approx	
direct	16423 May 07 14:17	1° \mathbb{B} 33'16			16426 Jan 04 05:49	0° \mathbb{H}	
greatest brilliancy	16423 May 18 03:38	3° \mathbb{B} 36'08	-4.8m	desc. node	16426 Jan 16 09:39	14° \mathbb{H} 41'10	
	16423 Jun 23 04:29	0° \mathbb{I}			16426 Jan 29 05:19	0° Υ	
morning max el	16423 Jun 26 04:54	2° \mathbb{I} 56'34	46°19'20		16426 Feb 23 20:07	0° \mathbb{B}	
	16423 Jul 21 18:43	0° \mathbb{E}			16426 Mar 22 11:45	0° \mathbb{I}	
desc. node	16423 Aug 01 19:56	12° \mathbb{E} 29'31		evening max el	16426 Apr 17 00:22	26° \mathbb{I} 35'14	46°03'41
	16423 Aug 16 21:19	0° Ω			16426 Apr 20 13:31	0° \mathbb{E}	
	16423 Sep 10 23:30	0° \mathbb{M}		asc. node	16426 May 09 05:37	15° \mathbb{E} 59'18	
	16423 Oct 05 13:59	0° Ω		greatest brilliancy	16426 May 26 14:40	25° \mathbb{E} 48'19	-4.8m
	16423 Oct 29 22:44	0° \mathbb{L}		retrograde	16426 Jun 05 08:58	27° \mathbb{E} 34'04	
asc. node	16423 Nov 22 17:16	29° \mathbb{L} 25'27		evening set	16426 Jun 23 00:46	21° \mathbb{E} 34'09	
	16423 Nov 23 04:25	0° \mathbb{A}		inferior conj	16426 Jun 26 07:03	19° \mathbb{E} 32'44	8°48'20
	16423 Dec 17 08:18	0° \mathbb{B}		minimum elong	16426 Jun 26 02:02	19° \mathbb{E} 40'36	8°47'21
morning set	16423 Dec 28 00:59	13° \mathbb{B} 17'31		min. Earth dist.	16426 Jun 26 11:52	19° \mathbb{E} 25'09	0.28072 AU
	16424 Jan 10 11:37	0° \approx		morning rise	16426 Jun 29 03:15	17° \mathbb{E} 46'34	
				direct	16426 Jul 17 09:48	11° \mathbb{E} 24'43	
superior conj	16424 Feb 03 05:30	29° \approx 27'48	1°17'39	greatest brilliancy	16426 Jul 27 09:58	13° \mathbb{E} 18'12	-4.9m
minimum elong	16424 Feb 03 13:44	29° \approx 53'20	1°17'51		16426 Aug 21 20:51	0° Ω	

desc. node	16426 Aug 29 06:03	6°Ω42'47		desc. node	16429 Feb 11 20:09	0°Υ	
morning max el	16426 Sep 05 20:17	14°Ω07'28	46°53'49	desc. node	16429 Feb 12 22:53	1°Υ21'36	
	16426 Sep 20 23:53	0°Π			16429 Mar 08 12:34	0°Ϣ	
	16426 Oct 17 14:22	0°♁			16429 Apr 02 11:29	0°Π	
	16426 Nov 12 01:11	0°Π			16429 Apr 27 18:57	0°☾	
	16426 Dec 06 23:24	0°♁			16429 May 23 18:02	0°Ω	
asc. node	16426 Dec 20 05:03	16°♁05'09		asc. node	16429 Jun 05 16:42	14°Ω26'46	
	16426 Dec 31 14:26	0°☾			16429 Jun 20 05:44	0°Π	
	16427 Jan 25 00:59	0°≈		evening max el	16429 Jun 28 10:22	8°Π18'16	46°24'07
	16427 Feb 18 09:11	0°Ϣ			16429 Jul 23 08:21	0°♁	
morning set	16427 Mar 07 09:26	20°Ϣ59'25		greatest brilliancy	16429 Aug 07 14:09	8°♁20'08	-4.9m
	16427 Mar 14 16:43	0°Υ		retrograde	16429 Aug 17 05:46	10°♁05'07	
	16427 Apr 08 00:18	0°Ϣ		evening set	16429 Sep 01 18:05	5°♁25'03	
desc. node	16427 Apr 11 00:04	3°Ϣ41'16		inferior conj	16429 Sep 06 21:51	2°♁21'42	4°41'18
max. Earth dist.	16427 Apr 13 15:07	6°Ϣ55'45	1.73042 AU	minimum elong	16429 Sep 07 07:29	2°♁06'57	4°38'34
				min. Earth dist.	16429 Sep 07 12:18	1°♁59'34	0.27046 AU
superior conj	16427 Apr 14 00:37	7°Ϣ25'04	-0°07'24		16429 Sep 10 19:47	30°ϢΠ	
minimum elong	16427 Apr 13 22:50	7°Ϣ19'32	0°07'39	morning rise	16429 Sep 12 20:32	28°Π51'08	
behind sun begin	16427 Apr 13 01:44	6°Ϣ14'28		desc. node	16429 Sep 25 16:06	24°Π36'22	
behind sun end	16427 Apr 14 19:55	8°Ϣ24'35		direct	16429 Sep 27 16:16	24°Π31'30	
	16427 May 02 07:38	0°Π		greatest brilliancy	16429 Oct 07 23:28	26°Π29'36	-4.9m
evening rise	16427 May 22 07:00	24°Π41'16			16429 Oct 15 10:23	0°♁	
	16427 May 26 14:02	0°☾		morning max el	16429 Nov 16 19:17	26°♁33'53	46°41'11
	16427 Jun 19 19:27	0°Ω			16429 Nov 20 05:45	0°Π	
	16427 Jul 14 00:54	0°Π			16429 Dec 18 05:10	0°♁	
asc. node	16427 Aug 01 15:53	23°Π00'16			16430 Jan 13 08:58	0°☾	
	16427 Aug 07 08:12	0°♁		asc. node	16430 Jan 16 16:16	3°☾52'18	
	16427 Aug 31 20:00	0°Π			16430 Feb 07 16:51	0°≈	
	16427 Sep 25 16:48	0°♁			16430 Mar 04 13:50	0°Ϣ	
	16427 Oct 21 08:20	0°☾			16430 Mar 29 04:44	0°Υ	
	16427 Nov 17 20:16	0°≈			16430 Apr 22 16:03	0°Ϣ	
desc. node	16427 Nov 21 11:19	3°≈40'52		desc. node	16430 May 08 13:01	19°Ϣ32'24	
evening max el	16427 Nov 23 11:05	5°≈39'46	46°26'50	morning set	16430 May 16 14:17	29°Ϣ28'35	
	16427 Dec 22 14:00	0°Ϣ			16430 May 17 00:27	0°Π	
greatest brilliancy	16428 Jan 01 23:59	5°Ϣ10'47	-4.8m		16430 Jun 10 05:54	0°☾	
retrograde	16428 Jan 12 04:59	7°Ϣ04'43		max. Earth dist.	16430 Jun 21 21:44	14°☾29'31	1.72254 AU
evening set	16428 Jan 30 01:37	1°Ϣ04'09					
	16428 Jan 31 19:34	30°Ϣ≈		superior conj	16430 Jun 24 20:12	18°☾08'45	-1°25'07
inferior conj	16428 Feb 02 14:34	28°≈52'58	-7°59'15	minimum elong	16430 Jun 24 14:37	17°☾51'23	1°25'42
minimum elong	16428 Feb 02 23:21	28°≈39'13	7°57'39		16430 Jul 04 08:36	0°Ω	
min. Earth dist.	16428 Feb 02 14:10	28°≈53'34	0.28566 AU		16430 Jul 28 09:29	0°Π	
morning rise	16428 Feb 06 21:12	26°≈15'58		evening rise	16430 Aug 03 08:45	7°Π27'25	
direct	16428 Feb 23 20:50	20°≈47'51			16430 Aug 21 09:54	0°♁	
greatest brilliancy	16428 Mar 05 05:28	22°≈45'22	-4.8m	asc. node	16430 Aug 29 05:26	9°♁45'20	
asc. node	16428 Mar 13 10:43	26°≈39'16			16430 Sep 14 11:12	0°Π	
	16428 Mar 18 18:11	0°Ϣ			16430 Oct 08 15:02	0°♁	
morning max el	16428 Apr 12 22:31	21°Ϣ23'26	45°46'03		16430 Nov 02 00:13	0°☾	
	16428 Apr 21 12:44	0°Υ			16430 Nov 26 19:55	0°≈	
	16428 May 19 03:58	0°Ϣ		desc. node	16430 Dec 18 22:55	25°≈58'32	
	16428 Jun 14 01:51	0°Π			16430 Dec 22 11:01	0°Ϣ	
desc. node	16428 Jul 03 11:02	23°Π07'38			16431 Jan 18 15:43	0°Υ	
	16428 Jul 09 03:35	0°☾		evening max el	16431 Feb 02 13:20	15°Υ05'53	46°05'28
	16428 Aug 02 17:18	0°Ω			16431 Feb 19 04:31	0°Ϣ	
	16428 Aug 26 23:41	0°Π		greatest brilliancy	16431 Mar 13 15:35	13°Ϣ46'43	-4.8m
	16428 Sep 20 02:04	0°♁		retrograde	16431 Mar 23 18:46	15°Ϣ39'50	
morning set	16428 Oct 13 13:24	29°♁18'43		evening set	16431 Apr 07 17:18	11°Ϣ17'49	
	16428 Oct 14 02:37	0°Π		asc. node	16431 Apr 10 20:57	9°Ϣ28'16	
asc. node	16428 Oct 24 06:22	12°Π41'43		inferior conj	16431 Apr 14 01:33	7°Ϣ29'35	0°47'42
	16428 Nov 07 02:31	0°♁		minimum elong	16431 Apr 13 23:45	7°Ϣ32'24	0°46'48
				min. Earth dist.	16431 Apr 14 01:36	7°Ϣ29'30	0.28383 AU
superior conj	16428 Nov 21 14:43	18°♁08'12	1°02'32	morning rise	16431 Apr 20 06:02	3°Ϣ46'08	
minimum elong	16428 Nov 21 04:03	17°♁34'53	1°02'47		16431 Apr 29 12:08	30°ϢΥ	
max. Earth dist.	16428 Nov 23 06:19	20°♁11'52	1.71936 AU	direct	16431 May 05 06:00	29°Υ19'41	
	16428 Dec 01 02:40	0°☾			16431 May 11 04:05	0°Ϣ	
	16428 Dec 25 04:28	0°≈		greatest brilliancy	16431 May 15 19:42	1°Ϣ23'17	-4.8m
evening rise	16428 Dec 29 06:59	5°≈05'57			16431 Jun 23 03:09	0°Π	
	16429 Jan 18 09:44	0°Ϣ		morning max el	16431 Jun 23 21:01	0°Π43'54	46°17'57

	16431 Jul 21 10:33	0°☿			16434 Mar 22 03:53	0°♊	
desc. node	16431 Jul 31 21:54	11°☿53'07		evening max el	16434 Apr 14 15:10	24°♊20'10	46°03'14
	16431 Aug 16 10:48	0°♌			16434 Apr 20 13:53	0°☿	
	16431 Sep 10 11:53	0°♍		asc. node	16434 May 08 07:26	14°☿47'04	
	16431 Oct 05 01:46	0°♎		greatest brilliancy	16434 May 24 04:50	23°☿31'31	-4.8m
	16431 Oct 29 10:06	0°♏		retrograde	16434 Jun 02 22:46	25°☿16'56	
asc. node	16431 Nov 21 19:00	28°♏56'30		evening set	16434 Jun 20 11:58	19°☿22'11	
	16431 Nov 22 15:29	0°♐		inferior conj	16434 Jun 23 21:43	17°☿15'21	8°42'32
	16431 Dec 16 19:09	0°♑		minimum elong	16434 Jun 23 15:55	17°☿24'28	8°41'25
morning set	16431 Dec 25 16:17	11°♑02'21		min. Earth dist.	16434 Jun 24 01:53	17°☿08'47	0.28094 AU
	16432 Jan 09 22:19	0°♒		morning rise	16434 Jun 26 19:49	15°☿26'03	
				direct	16434 Jul 15 00:28	9°☿07'08	
superior conj	16432 Jan 31 21:39	27°♒16'12	1°19'09	greatest brilliancy	16434 Jul 25 00:46	11°☿00'13	-4.8m
minimum elong	16432 Feb 01 05:26	27°♒40'18	1°19'24		16434 Aug 22 02:12	0°♌	
	16432 Feb 03 02:31	0°♈		desc. node	16434 Aug 28 08:00	5°♌47'58	
max. Earth dist.	16432 Feb 03 06:35	0°♈12'35	1.72789 AU	morning max el	16434 Sep 03 09:50	11°♌45'57	46°53'17
	16432 Feb 27 09:01	0°♉			16434 Sep 20 17:27	0°♍	
evening rise	16432 Mar 09 13:50	13°♉48'04			16434 Oct 17 04:33	0°♎	
desc. node	16432 Mar 12 12:25	17°♉25'13			16434 Nov 11 13:48	0°♏	
	16432 Mar 22 18:06	0°♊			16434 Dec 06 11:07	0°♐	
	16432 Apr 16 05:14	0°♋		asc. node	16434 Dec 19 06:58	15°♐36'17	
	16432 May 10 17:58	0°☿			16434 Dec 31 01:35	0°♑	
	16432 Jun 04 09:09	0°♌			16435 Jan 24 11:47	0°♒	
	16432 Jun 29 05:42	0°♍			16435 Feb 17 19:45	0°♈	
asc. node	16432 Jul 03 04:50	4°♍44'38		morning set	16435 Mar 05 02:12	18°♈50'43	
	16432 Jul 24 13:30	0°♎			16435 Mar 14 03:09	0°♉	
	16432 Aug 19 21:24	0°♏			16435 Apr 07 10:43	0°♊	
evening max el	16432 Sep 09 05:16	21°♏31'07	46°39'39	desc. node	16435 Apr 10 01:47	3°♊14'29	
	16432 Sep 17 23:26	0°♐					
greatest brilliancy	16432 Oct 18 14:37	21°♐47'40	-4.9m	superior conj	16435 Apr 11 16:03	5°♊12'33	-0°03'55
desc. node	16432 Oct 23 02:22	23°♐12'37		minimum elong	16435 Apr 11 15:04	5°♊09'29	0°04'11
retrograde	16432 Oct 29 12:44	24°♐00'23		behind sun begin	16435 Apr 10 16:01	3°♊58'23	
evening set	16432 Nov 14 02:41	19°♐16'10		behind sun end	16435 Apr 12 14:07	6°♊20'36	
min. Earth dist.	16432 Nov 18 16:38	16°♐33'52	0.27507 AU	max. Earth dist.	16435 Apr 11 07:31	4°♊46'12	1.73052 AU
inferior conj	16432 Nov 19 11:48	16°♐04'38	-6°23'31		16435 May 01 18:04	0°♋	
minimum elong	16432 Nov 19 00:43	16°♐21'32	6°20'23	evening rise	16435 May 19 21:45	22°♋25'54	
morning rise	16432 Nov 23 23:14	13°♐24'44			16435 May 26 00:35	0°☿	
direct	16432 Dec 10 09:40	8°♐16'50			16435 Jun 19 06:12	0°♌	
greatest brilliancy	16432 Dec 19 20:20	9°♐55'26	-4.8m		16435 Jul 13 11:55	0°♍	
	16433 Jan 19 02:44	0°♑		asc. node	16435 Jul 31 17:50	22°♍31'23	
morning max el	16433 Jan 28 16:46	8°♑55'44	45°59'18		16435 Aug 06 19:38	0°♎	
asc. node	16433 Feb 13 02:42	24°♑35'23			16435 Aug 31 08:02	0°♏	
	16433 Feb 18 04:24	0°♒			16435 Sep 25 05:51	0°♐	
	16433 Mar 17 00:47	0°♈			16435 Oct 20 23:20	0°♑	
	16433 Apr 11 16:17	0°♉			16435 Nov 17 16:23	0°♒	
	16433 May 06 17:19	0°♊		desc. node	16435 Nov 20 13:12	2°♒52'37	
	16433 May 31 09:26	0°♋		evening max el	16435 Nov 21 00:45	3°♒21'16	46°27'37
desc. node	16433 Jun 05 01:18	5°♋42'24			16435 Dec 24 01:13	0°♈	
	16433 Jun 24 18:58	0°☿		greatest brilliancy	16435 Dec 30 15:33	2°♈58'23	-4.8m
	16433 Jul 18 23:24	0°♌		retrograde	16436 Jan 09 19:49	4°♈52'11	
morning set	16433 Jul 29 04:31	12°♌43'45			16436 Jan 25 18:18	30°♉	
	16433 Aug 12 00:21	0°♍		evening set	16436 Jan 27 19:43	28°♉47'42	
	16433 Sep 04 23:29	0°♎		inferior conj	16436 Jan 31 05:56	26°♉40'44	-8°08'41
max. Earth dist.	16433 Sep 06 04:02	1°♎29'25	1.71579 AU	minimum elong	16436 Jan 31 14:12	26°♉27'49	8°07'13
				min. Earth dist.	16436 Jan 31 05:14	26°♉41'50	0.28558 AU
superior conj	16433 Sep 06 20:01	2°♎19'28	-0°44'31	morning rise	16436 Feb 04 08:47	24°♉09'14	
minimum elong	16433 Sep 07 06:02	2°♎50'49	0°44'07	direct	16436 Feb 21 11:31	18°♉35'50	
asc. node	16433 Sep 25 18:55	26°♎04'30		greatest brilliancy	16436 Mar 02 20:25	20°♉33'03	-4.8m
	16433 Sep 28 22:08	0°♏		asc. node	16436 Mar 12 12:39	25°♉18'07	
evening rise	16433 Oct 16 11:52	22°♏00'04			16436 Mar 19 12:15	0°♈	
	16433 Oct 22 21:21	0°♐		morning max el	16436 Apr 10 12:45	19°♈08'09	45°45'40
	16433 Nov 15 22:36	0°♑			16436 Apr 21 07:24	0°♉	
	16433 Dec 10 04:10	0°♒			16436 May 18 18:15	0°♊	
	16434 Jan 03 17:13	0°♈			16436 Jun 13 14:23	0°♋	
desc. node	16434 Jan 15 11:32	14°♈11'40		desc. node	16436 Jul 02 13:01	22°♋38'01	
	16434 Jan 28 17:25	0°♉			16436 Jul 08 15:15	0°☿	
	16434 Feb 23 09:30	0°♊			16436 Aug 02 04:28	0°♌	

	16436 Aug 26 10:34	0°♎		greatest brilliancy	16439 Mar 11 06:22	11°♊34'12	-4.8m
	16436 Sep 19 12:46	0°♏		retrograde	16439 Mar 21 10:40	13°♊27'51	
morning set	16436 Oct 11 02:22	26°♏56'07		evening set	16439 Apr 05 09:19	9°♊05'03	
	16436 Oct 13 13:12	0°♎		asc. node	16439 Apr 09 22:43	6°♊23'25	
asc. node	16436 Oct 23 08:06	12°♎14'13		inferior conj	16439 Apr 11 17:03	5°♊17'19	0°26'21
	16436 Nov 06 13:00	0°♊		minimum elong	16439 Apr 11 16:04	5°♊18'52	0°25'43
				min. Earth dist.	16439 Apr 11 17:07	5°♊17'12	0.28392 AU
superior conj	16436 Nov 19 05:11	15°♊50'52	0°59'58	morning rise	16439 Apr 17 22:45	1°♊32'30	
minimum elong	16436 Nov 18 18:30	15°♊17'29	1°00'10		16439 Apr 20 23:18	30°♋♎	
max. Earth dist.	16436 Nov 20 15:56	17°♊39'26	1.71907 AU	direct	16439 May 02 22:06	27°♎07'34	
	16436 Nov 30 13:05	0°♊		greatest brilliancy	16439 May 13 11:17	29°♎11'05	-4.8m
	16436 Dec 24 14:52	0°♋			16439 May 15 12:02	0°♋	
evening rise	16436 Dec 26 22:26	2°♋52'35		morning max el	16439 Jun 21 13:04	28°♋32'08	46°16'20
	16437 Jan 17 20:13	0°♋			16439 Jun 23 00:33	0°♋	
	16437 Feb 11 06:53	0°♎			16439 Jul 21 01:52	0°♏	
desc. node	16437 Feb 12 00:46	0°♎54'38		desc. node	16439 Jul 30 23:48	11°♏17'26	
	16437 Mar 07 23:41	0°♋			16439 Aug 15 23:58	0°♏	
	16437 Apr 01 23:14	0°♋			16439 Sep 10 00:00	0°♎	
	16437 Apr 27 07:47	0°♏			16439 Oct 04 13:16	0°♏	
	16437 May 23 08:56	0°♏			16439 Oct 28 21:11	0°♎	
asc. node	16437 Jun 04 18:38	13°♏46'29		asc. node	16439 Nov 20 20:52	28°♎28'48	
	16437 Jun 20 01:41	0°♎			16439 Nov 22 02:16	0°♊	
evening max el	16437 Jun 25 23:03	5°♎55'40	46°23'23		16439 Dec 16 05:45	0°♊	
	16437 Jul 24 09:28	0°♏		morning set	16439 Dec 23 07:25	8°♊47'23	
greatest brilliancy	16437 Aug 05 03:42	5°♏57'34	-4.9m		16440 Jan 09 08:49	0°♋	
retrograde	16437 Aug 14 18:45	7°♏42'17					
evening set	16437 Aug 30 09:59	2°♏57'13		superior conj	16440 Jan 29 13:46	25°♋04'59	1°20'32
inferior conj	16437 Sep 04 10:43	29°♎58'15	5°01'42	minimum elong	16440 Jan 29 21:01	25°♋27'27	1°20'49
minimum elong	16437 Sep 04 20:47	29°♎42'50	4°58'54	max. Earth dist.	16440 Feb 01 01:35	28°♋10'21	1.72761 AU
	16437 Sep 04 09:34	30°♋♎			16440 Feb 02 12:58	0°♋	
min. Earth dist.	16437 Sep 05 02:03	29°♎34'46	0.27078 AU		16440 Feb 26 19:29	0°♎	
morning rise	16437 Sep 10 07:12	26°♎30'46		evening rise	16440 Mar 07 05:36	11°♎36'34	
desc. node	16437 Sep 24 17:57	22°♎07'18		desc. node	16440 Mar 11 14:09	16°♎58'10	
direct	16437 Sep 25 05:16	22°♎07'02			16440 Mar 22 04:40	0°♋	
greatest brilliancy	16437 Oct 05 13:12	24°♎06'18	-4.9m		16440 Apr 15 16:00	0°♋	
	16437 Oct 16 21:51	0°♏			16440 May 10 05:05	0°♏	
morning max el	16437 Nov 14 09:58	24°♏15'15	46°42'29		16440 Jun 03 20:50	0°♏	
	16437 Nov 20 02:50	0°♎			16440 Jun 28 18:16	0°♎	
	16437 Dec 17 20:34	0°♊		asc. node	16440 Jul 02 06:44	4°♎12'18	
	16438 Jan 12 22:02	0°♊			16440 Jul 24 03:34	0°♏	
asc. node	16438 Jan 15 18:12	3°♊20'04			16440 Aug 19 14:38	0°♎	
	16438 Feb 07 04:42	0°♋		evening max el	16440 Sep 06 20:21	19°♎12'39	46°39'31
	16438 Mar 04 00:59	0°♋			16440 Sep 18 02:54	0°♊	
	16438 Mar 28 15:30	0°♎		greatest brilliancy	16440 Oct 16 04:42	19°♊26'24	-4.9m
desc. node	16438 Apr 22 02:36	0°♋		desc. node	16440 Oct 22 04:15	21°♊10'14	
morning set	16438 May 07 14:48	19°♊05'37		retrograde	16440 Oct 27 02:43	21°♊38'31	
	16438 May 14 04:33	27°♊12'09		evening set	16440 Nov 11 12:57	16°♊59'43	
	16438 May 16 10:55	0°♋		min. Earth dist.	16440 Nov 16 06:14	14°♊12'35	0.27456 AU
	16438 Jun 09 16:21	0°♏		inferior conj	16440 Nov 17 01:06	13°♊43'45	-6°06'47
max. Earth dist.	16438 Jun 19 13:28	12°♏16'36	1.72289 AU	minimum elong	16440 Nov 16 14:07	14°♊00'33	6°03'34
				morning rise	16440 Nov 21 15:48	10°♊59'09	
superior conj	16438 Jun 22 09:30	15°♏48'12	-1°24'06	direct	16440 Dec 07 23:06	5°♊56'45	
minimum elong	16438 Jun 22 03:07	15°♏28'20	1°24'39	greatest brilliancy	16440 Dec 17 08:59	7°♊34'40	-4.8m
	16438 Jul 03 19:04	0°♏			16441 Jan 19 05:51	0°♊	
	16438 Jul 27 20:02	0°♎		morning max el	16441 Jan 26 06:10	6°♊36'50	46°00'25
evening rise	16438 Jul 31 20:50	5°♎02'15		asc. node	16441 Feb 12 04:34	23°♊52'58	
	16438 Aug 20 20:34	0°♏			16441 Feb 17 21:14	0°♋	
asc. node	16438 Aug 28 07:09	9°♏17'15			16441 Mar 16 14:28	0°♋	
	16438 Sep 13 22:04	0°♎			16441 Apr 11 04:32	0°♎	
	16438 Oct 08 02:11	0°♊			16441 May 06 04:47	0°♋	
	16438 Nov 01 11:51	0°♊			16441 May 30 20:28	0°♋	
	16438 Nov 26 08:22	0°♋		desc. node	16441 Jun 04 03:16	5°♋14'48	
desc. node	16438 Dec 18 00:52	25°♋24'38			16441 Jun 24 05:46	0°♏	
	16438 Dec 22 01:03	0°♋			16441 Jul 18 10:07	0°♏	
	16439 Jan 18 09:32	0°♎		morning set	16441 Jul 26 16:55	10°♏19'25	
evening max el	16439 Jan 31 05:23	12°♎55'48	46°06'09		16441 Aug 11 11:02	0°♎	
	16439 Feb 19 14:36	0°♋		max. Earth dist.	16441 Sep 03 12:25	28°♎51'52	1.71585 AU

superior conj	16441 Sep 04 08:12	29° \cap 53'51	-0°47'49	min. Earth dist.	16444 Jan 28 19:57	24° \approx 28'30	0.28548 AU
minimum elong	16441 Sep 04 18:41	0° $\underline{\cap}$ 26'40	0°47'25	morning rise	16444 Feb 01 20:14	22° \approx 00'50	
	16441 Sep 04 10:10	0° $\underline{\cap}$		direct	16444 Feb 19 01:59	16° \approx 21'55	
asc. node	16441 Sep 24 20:41	25° $\underline{\cap}$ 36'33		greatest brilliancy	16444 Feb 29 11:15	18° \approx 19'14	-4.8m
	16441 Sep 28 08:49	0° \cap		asc. node	16444 Mar 11 14:31	23° \approx 58'04	
evening rise	16441 Oct 14 01:10	19° \cap 37'53			16444 Mar 20 02:13	0° \cap	
	16441 Oct 22 08:07	0° \nearrow		morning max el	16444 Apr 08 03:32	16° \cap 53'05	45°45'21
	16441 Nov 15 09:28	0° \searrow			16444 Apr 21 01:59	0° Υ	
	16441 Dec 09 15:16	0° \approx			16444 May 18 08:45	0° \searrow	
	16442 Jan 03 04:44	0° \cap			16444 Jun 13 03:12	0° \cap	
desc. node	16442 Jan 14 13:23	13° \cap 41'44		desc. node	16444 Jul 01 14:50	22° \cap 06'57	
	16442 Jan 28 05:40	0° Υ			16444 Jul 08 03:12	0° \searrow	
	16442 Feb 22 23:09	0° \searrow			16444 Aug 01 15:55	0° \cap	
	16442 Mar 21 20:28	0° \cap			16444 Aug 25 21:42	0° \cap	
evening max el	16442 Apr 12 05:10	22° \cap 02'48	46°02'53		16444 Sep 18 23:44	0° $\underline{\cap}$	
	16442 Apr 20 15:43	0° \searrow		morning set	16444 Oct 08 15:37	24° $\underline{\cap}$ 33'34	
asc. node	16442 May 07 09:27	13° \searrow 32'50			16444 Oct 13 00:03	0° \cap	
greatest brilliancy	16442 May 21 19:11	21° \searrow 14'46	-4.8m	asc. node	16444 Oct 22 10:00	11° \cap 46'23	
retrograde	16442 May 31 12:30	23° \searrow 00'02			16444 Nov 05 23:47	0° \nearrow	
evening set	16442 Jun 17 23:02	17° \searrow 10'29					
inferior conj	16442 Jun 21 12:26	14° \searrow 58'07	8°35'55	superior conj	16444 Nov 16 19:37	13° \nearrow 32'23	0°57'17
minimum elong	16442 Jun 21 05:55	15° \searrow 08'23	8°34'38	minimum elong	16444 Nov 16 08:59	12° \nearrow 59'09	0°57'28
min. Earth dist.	16442 Jun 21 16:11	14° \searrow 52'14	0.28114 AU	max. Earth dist.	16444 Nov 18 03:15	15° \nearrow 11'13	1.71888 AU
morning rise	16442 Jun 24 12:42	13° \searrow 05'21			16444 Nov 29 23:50	0° \searrow	
direct	16442 Jul 12 14:49	6° \searrow 49'33			16444 Dec 24 01:39	0° \approx	
greatest brilliancy	16442 Jul 22 16:05	8° \searrow 43'02	-4.8m	evening rise	16444 Dec 24 13:46	0° \approx 37'40	
	16442 Aug 22 05:45	0° \cap			16445 Jan 17 07:08	0° \cap	
desc. node	16442 Aug 27 09:51	4° \cap 53'54			16445 Feb 10 18:02	0° Υ	
morning max el	16442 Aug 31 23:05	9° \cap 23'27	46°52'37	desc. node	16445 Feb 11 02:27	0° Υ 25'42	
	16442 Sep 20 10:44	0° \cap			16445 Mar 07 11:15	0° \searrow	
	16442 Oct 16 18:47	0° $\underline{\cap}$			16445 Apr 01 11:28	0° \cap	
	16442 Nov 11 02:35	0° \cap			16445 Apr 26 21:09	0° \searrow	
	16442 Dec 05 23:02	0° \nearrow			16445 May 23 00:31	0° \cap	
asc. node	16442 Dec 18 08:55	15° \nearrow 06'50		asc. node	16445 Jun 03 20:34	13° \cap 04'23	
	16442 Dec 30 12:57	0° \searrow			16445 Jun 19 22:52	0° \cap	
	16443 Jan 23 22:46	0° \approx		evening max el	16445 Jun 23 12:51	3° \cap 34'44	46°22'40
	16443 Feb 17 06:30	0° \cap			16445 Jul 25 21:52	0° $\underline{\cap}$	
morning set	16443 Mar 02 18:42	16° \cap 40'32		greatest brilliancy	16445 Aug 02 16:50	3° $\underline{\cap}$ 33'46	-4.9m
	16443 Mar 13 13:48	0° Υ		retrograde	16445 Aug 12 08:15	5° $\underline{\cap}$ 18'38	
	16443 Apr 06 21:21	0° \searrow		evening set	16445 Aug 28 02:08	0° $\underline{\cap}$ 28'37	
					16445 Aug 28 22:15	30° \searrow	
superior conj	16443 Apr 09 07:24	2° \searrow 59'01	-0°00'24	inferior conj	16445 Sep 01 23:39	27° \cap 34'01	5°21'33
minimum elong	16443 Apr 09 07:14	2° \searrow 58'31	0°00'41	minimum elong	16445 Sep 02 10:05	27° \cap 18'03	5°18'42
behind sun begin	16443 Apr 08 07:37	1° \searrow 45'41		min. Earth dist.	16445 Sep 02 15:29	27° \cap 09'48	0.27105 AU
behind sun end	16443 Apr 10 06:51	4° \searrow 11'21		morning rise	16445 Sep 07 17:44	24° \cap 10'02	
max. Earth dist.	16443 Apr 08 23:57	2° \searrow 36'03	1.73063 AU	direct	16445 Sep 22 18:50	19° \cap 42'09	
desc. node	16443 Apr 09 03:35	2° \searrow 47'13		desc. node	16445 Sep 23 19:49	19° \cap 43'28	
	16443 May 01 04:47	0° \cap		greatest brilliancy	16445 Oct 03 02:18	21° \cap 41'38	-4.9m
evening rise	16443 May 17 12:38	20° \cap 10'16			16445 Oct 17 23:19	0° $\underline{\cap}$	
	16443 May 25 11:24	0° \searrow		morning max el	16445 Nov 12 01:02	21° $\underline{\cap}$ 56'56	46°43'42
	16443 Jun 18 17:10	0° \cap			16445 Nov 19 23:26	0° \cap	
	16443 Jul 12 23:08	0° \cap			16445 Dec 17 12:00	0° \nearrow	
asc. node	16443 Jul 30 19:36	22° \cap 01'21			16446 Jan 12 11:21	0° \searrow	
	16443 Aug 06 07:16	0° $\underline{\cap}$		asc. node	16446 Jan 14 20:00	2° \searrow 46'37	
	16443 Aug 30 20:20	0° \cap			16446 Feb 06 16:53	0° \approx	
	16443 Sep 24 19:14	0° \nearrow			16446 Mar 03 12:32	0° \cap	
	16443 Oct 20 14:52	0° \searrow			16446 Mar 28 02:40	0° Υ	
	16443 Nov 17 13:41	0° \approx			16446 Apr 21 13:33	0° \searrow	
evening max el	16443 Nov 18 14:18	1° \approx 01'11	46°28'22	desc. node	16446 May 06 16:42	18° \searrow 37'58	
desc. node	16443 Nov 19 15:11	2° \approx 02'35		morning set	16446 May 11 18:49	24° \searrow 54'34	
	16443 Dec 26 09:26	0° \cap			16446 May 15 21:46	0° \cap	
greatest brilliancy	16443 Dec 28 06:25	0° \cap 43'32	-4.8m		16446 Jun 09 03:10	0° \searrow	
retrograde	16444 Jan 07 10:47	2° \cap 38'01		max. Earth dist.	16446 Jun 17 04:32	10° \searrow 00'28	1.72323 AU
	16444 Jan 18 23:48	30° \searrow					
evening set	16444 Jan 25 13:28	26° \approx 29'30		superior conj	16446 Jun 19 22:46	13° \searrow 26'23	-1°22'56
inferior conj	16444 Jan 28 21:07	24° \approx 26'40	-8°17'23	minimum elong	16446 Jun 19 15:37	13° \searrow 04'08	1°23'27
minimum elong	16444 Jan 29 04:50	24° \approx 14'39	8°16'03		16446 Jul 03 05:57	0° \cap	

	16446 Jul 27 07:00	0°♍	direct	16448 Dec 05 12:08	3°♊36'04	
evening rise	16446 Jul 29 08:57	2°♍35'57	greatest brilliancy	16448 Dec 14 22:19	5°♊13'58	-4.8m
	16446 Aug 20 07:40	0°♌		16449 Jan 19 07:36	0°♊	
asc. node	16446 Aug 27 08:58	8°♌48'09	morning max el	16449 Jan 23 18:42	4°♊15'18	46°01'44
	16446 Sep 13 09:19	0°♌	asc. node	16449 Feb 11 06:28	23°♊10'55	
	16446 Oct 07 13:41	0°♊		16449 Feb 17 13:51	0°♊	
	16446 Oct 31 23:47	0°♊		16449 Mar 16 04:09	0°♊	
	16446 Nov 25 21:09	0°♊		16449 Apr 10 16:53	0°♊	
desc. node	16446 Dec 17 02:41	24°♊49'17		16449 May 05 16:25	0°♊	
	16446 Dec 21 15:34	0°♊		16449 May 30 07:44	0°♊	
	16447 Jan 18 04:12	0°♊	desc. node	16449 Jun 03 05:06	4°♊46'01	
evening max el	16447 Jan 28 21:51	10°♊45'37 46°06'37		16449 Jun 23 16:49	0°♊	
	16447 Feb 20 04:56	0°♊		16449 Jul 17 21:03	0°♊	
greatest brilliancy	16447 Mar 08 21:38	9°♊21'05 -4.8m	morning set	16449 Jul 24 05:11	7°♊54'02	
retrograde	16447 Mar 19 02:14	11°♊14'32		16449 Aug 10 21:54	0°♊	
evening set	16447 Apr 03 01:35	6°♊51'02	max. Earth dist.	16449 Aug 31 19:14	26°♊08'57 1.71594 AU	
inferior conj	16447 Apr 09 08:36	3°♊03'56 0°04'53				
minimum elong	16447 Apr 09 08:25	3°♊04'12 0°04'32	superior conj	16449 Sep 01 20:21	27°♊27'38 -0°51'01	
transit middle	16447 Apr 09 08:25	3°♊04'12 0°04'32	minimum elong	16449 Sep 02 07:14	28°♊01'41 0°50'38	
transit begin	16447 Apr 09 04:32	3°♊10'18		16449 Sep 03 21:01	0°♊	
transit end	16447 Apr 09 12:19	2°♊58'06	asc. node	16449 Sep 23 22:35	25°♊08'25	
asc. node	16447 Apr 09 00:46	3°♊16'13		16449 Sep 27 19:42	0°♌	
min. Earth dist.	16447 Apr 09 08:48	3°♊03'37 0.28400 AU	evening rise	16449 Oct 11 14:25	17°♌14'59	
	16447 Apr 14 09:16	30°♌		16449 Oct 21 19:04	0°♊	
morning rise	16447 Apr 15 15:17	29°♊17'48		16449 Nov 14 20:33	0°♊	
direct	16447 Apr 30 14:20	24°♊54'28		16449 Dec 09 02:33	0°♊	
greatest brilliancy	16447 May 11 02:47	26°♊57'30 -4.8m		16450 Jan 02 16:23	0°♊	
	16447 May 17 16:33	0°♊	desc. node	16450 Jan 13 15:11	13°♊11'18	
morning max el	16447 Jun 19 04:18	26°♊17'13 46°14'42		16450 Jan 27 18:04	0°♊	
	16447 Jun 22 21:37	0°♊		16450 Feb 22 12:58	0°♊	
	16447 Jul 20 17:20	0°♊		16450 Mar 21 13:26	0°♊	
desc. node	16447 Jul 30 01:38	10°♊40'49	evening max el	16450 Apr 09 18:42	19°♊44'18 46°02'26	
	16447 Aug 15 13:23	0°♊		16450 Apr 20 19:12	0°♊	
	16447 Sep 09 12:25	0°♊	asc. node	16450 May 06 11:21	12°♊15'53	
	16447 Oct 04 01:05	0°♊	greatest brilliancy	16450 May 19 09:14	18°♊57'21 -4.8m	
	16447 Oct 28 08:35	0°♌	retrograde	16450 May 29 02:34	20°♊43'06	
asc. node	16447 Nov 19 22:46	28°♌00'19	evening set	16450 Jun 15 09:55	14°♊58'39	
	16447 Nov 21 13:20	0°♊	inferior conj	16450 Jun 19 03:13	12°♊40'38 8°28'17	
	16447 Dec 15 16:35	0°♊	minimum elong	16450 Jun 18 20:02	12°♊51'57 8°26'51	
morning set	16447 Dec 20 22:55	6°♊32'47	min. Earth dist.	16450 Jun 19 06:31	12°♊35'26 0.28138 AU	
	16448 Jan 08 19:32	0°♊	morning rise	16450 Jun 22 06:01	10°♊44'03	
			direct	16450 Jul 10 05:11	4°♊31'33	
superior conj	16448 Jan 27 06:15	22°♊54'10 1°21'47	greatest brilliancy	16450 Jul 20 07:47	6°♊26'00 -4.8m	
minimum elong	16448 Jan 27 12:55	23°♊14'49 1°22'06		16450 Aug 22 07:53	0°♊	
max. Earth dist.	16448 Jan 29 20:49	26°♊08'05 1.72735 AU	desc. node	16450 Aug 26 11:50	4°♊00'47	
	16448 Feb 01 23:40	0°♊	morning max el	16450 Aug 29 12:55	7°♊02'03 46°52'00	
	16448 Feb 26 06:14	0°♊		16450 Sep 20 03:47	0°♊	
evening rise	16448 Mar 04 21:32	9°♊24'39		16450 Oct 16 08:56	0°♊	
desc. node	16448 Mar 10 16:01	16°♊30'39		16450 Nov 10 15:19	0°♌	
	16448 Mar 21 15:33	0°♊		16450 Dec 05 10:58	0°♊	
	16448 Apr 15 03:07	0°♊	asc. node	16450 Dec 17 10:38	14°♊36'37	
	16448 May 09 16:35	0°♊		16450 Dec 30 00:20	0°♊	
	16448 Jun 03 08:53	0°♊		16451 Jan 23 09:46	0°♊	
	16448 Jun 28 07:13	0°♊		16451 Feb 16 17:15	0°♊	
asc. node	16448 Jul 01 08:32	3°♊38'35	morning set	16451 Feb 28 11:36	14°♊31'38	
	16448 Jul 23 18:07	0°♊		16451 Mar 13 00:24	0°♊	
	16448 Aug 19 08:37	0°♌		16451 Apr 06 07:56	0°♊	
evening max el	16448 Sep 04 10:42	16°♌51'17 46°39'17				
	16448 Sep 18 08:40	0°♊	superior conj	16451 Apr 06 23:11	0°♊47'05 0°03'07	
greatest brilliancy	16448 Oct 13 19:30	17°♊05'01 -4.9m	minimum elong	16451 Apr 06 23:50	0°♊49'06 0°02'48	
desc. node	16448 Oct 21 06:18	19°♊02'15	behind sun begin	16451 Apr 06 00:26	29°♊36'53	
retrograde	16448 Oct 24 16:10	19°♊15'51	behind sun end	16451 Apr 07 23:14	2°♊01'17	
evening set	16448 Nov 08 23:28	14°♊42'17	max. Earth dist.	16451 Apr 06 18:51	0°♊33'40 1.73073 AU	
min. Earth dist.	16448 Nov 13 20:22	11°♊50'02 0.27403 AU	desc. node	16451 Apr 08 05:30	2°♊20'35	
inferior conj	16448 Nov 14 14:29	11°♊22'19 -5°49'17		16451 Apr 30 15:25	0°♊	
minimum elong	16448 Nov 14 03:39	11°♊38'54 5°46'02	evening rise	16451 May 15 03:57	17°♊56'16	
morning rise	16448 Nov 19 08:20	8°♊33'04		16451 May 24 22:10	0°♊	

	16451 Jun 18 04:08	0°♈			16453 Nov 19 19:13	0°♍		
	16451 Jul 12 10:24	0°♍			16453 Dec 17 03:01	0°♊		
asc. node	16451 Jul 29 21:24	21°♍31'17			16454 Jan 12 00:18	0°♈		
	16451 Aug 05 18:58	0°♊		asc. node	16454 Jan 13 21:57	2°♈14'31		
	16451 Aug 30 08:42	0°♍			16454 Feb 06 04:44	0°♌		
	16451 Sep 24 08:44	0°♊			16454 Mar 02 23:46	0°♋		
	16451 Oct 20 06:38	0°♈			16454 Mar 27 13:32	0°♐		
evening max el	16451 Nov 16 04:18	28°♈42'21 46°29'11			16454 Apr 21 00:11	0°♉		
	16451 Nov 17 11:46	0°♌		desc. node	16454 May 05 18:29	18°♉10'59		
desc. node	16451 Nov 18 17:02	1°♌11'29		morning set	16454 May 09 09:27	22°♉39'10		
greatest brilliancy	16451 Dec 25 20:39	28°♌28'04 -4.8m			16454 May 15 08:16	0°♊		
	16451 Dec 31 12:58	0°♋			16454 Jun 08 13:38	0°♉		
retrograde	16452 Jan 05 02:17	0°♋23'59		max. Earth dist.	16454 Jun 14 18:29	7°♉42'11 1.72352 AU		
	16452 Jan 09 13:26	30°♋						
evening set	16452 Jan 23 07:02	24°♌11'31		superior conj	16454 Jun 17 12:30	11°♉07'19 -1°21'37		
inferior conj	16452 Jan 26 12:15	22°♌12'39 -8°25'16		minimum elong	16454 Jun 17 04:39	10°♉42'56 1°22'08		
minimum elong	16452 Jan 26 19:20	22°♌01'36 8°24'05			16454 Jul 02 16:26	0°♈		
min. Earth dist.	16452 Jan 26 10:17	22°♌15'42 0.28536 AU		evening rise	16454 Jul 26 21:25	0°♍11'58		
morning rise	16452 Jan 30 07:42	19°♌52'32			16454 Jul 26 17:35	0°♍		
direct	16452 Feb 16 16:44	14°♌08'07			16454 Aug 19 18:23	0°♊		
greatest brilliancy	16452 Feb 27 01:40	16°♌05'21 -4.8m		asc. node	16454 Aug 26 10:54	8°♊20'35		
asc. node	16452 Mar 10 16:30	22°♌41'09			16454 Sep 12 20:15	0°♍		
	16452 Mar 20 12:21	0°♋			16454 Oct 07 00:56	0°♊		
morning max el	16452 Apr 05 19:07	14°♋40'38 45°45'15			16454 Oct 31 11:33	0°♈		
	16452 Apr 20 19:52	0°♐			16454 Nov 25 09:50	0°♌		
	16452 May 17 22:50	0°♉		desc. node	16454 Dec 16 04:32	24°♌14'27		
	16452 Jun 12 15:43	0°♊			16454 Dec 21 06:01	0°♋		
desc. node	16452 Jun 30 16:39	21°♊36'38			16455 Jan 17 23:07	0°♐		
	16452 Jul 07 14:55	0°♉		evening max el	16455 Jan 26 13:29	8°♐34'04 46°07'08		
	16452 Aug 01 03:12	0°♈			16455 Feb 20 23:47	0°♉		
	16452 Aug 25 08:44	0°♍		greatest brilliancy	16455 Mar 06 13:22	7°♉09'13 -4.8m		
	16452 Sep 18 10:36	0°♊		retrograde	16455 Mar 16 17:16	9°♉01'48		
morning set	16452 Oct 06 04:30	22°♊10'09		evening set	16455 Mar 31 17:54	4°♉37'28		
	16452 Oct 12 10:48	0°♍		inferior conj	16455 Apr 07 00:02	0°♉51'17 -0°16'37		
asc. node	16452 Oct 21 11:50	11°♍18'42		minimum elong	16455 Apr 07 00:40	0°♉50'17 0°16'41		
	16452 Nov 05 10:26	0°♊		min. Earth dist.	16455 Apr 07 00:39	0°♉50'19 0.28405 AU		
				asc. node	16455 Apr 08 02:42	0°♉09'28		
superior conj	16452 Nov 14 09:38	11°♊12'54 0°54'28			16455 Apr 08 08:45	30°♋		
minimum elong	16452 Nov 13 23:08	10°♊40'06 0°54'38		morning rise	16455 Apr 13 07:28	27°♐03'54		
max. Earth dist.	16452 Nov 15 16:36	12°♊49'45 1.71866 AU		direct	16455 Apr 28 06:07	22°♐42'07		
	16452 Nov 29 10:26	0°♈		greatest brilliancy	16455 May 08 18:26	24°♐44'49 -4.8m		
evening rise	16452 Dec 22 04:59	28°♈22'48			16455 May 19 02:17	0°♉		
	16452 Dec 23 12:16	0°♌		morning max el	16455 Jun 16 18:37	24°♉01'07 46°13'20		
	16453 Jan 16 17:53	0°♋			16455 Jun 22 17:32	0°♊		
desc. node	16453 Feb 10 04:22	29°♋58'02			16455 Jul 20 08:07	0°♉		
	16453 Feb 10 05:01	0°♐		desc. node	16455 Jul 29 03:36	10°♉06'18		
	16453 Mar 06 22:38	0°♉			16455 Aug 15 02:13	0°♈		
	16453 Mar 31 23:29	0°♊			16455 Sep 09 00:17	0°♍		
	16453 Apr 26 10:18	0°♉			16455 Oct 03 12:24	0°♊		
	16453 May 22 15:57	0°♈			16455 Oct 27 19:32	0°♍		
asc. node	16453 Jun 02 22:23	12°♈22'40		asc. node	16455 Nov 19 00:30	27°♍32'24		
	16453 Jun 19 20:22	0°♍			16455 Nov 21 00:03	0°♊		
evening max el	16453 Jun 21 03:12	1°♍16'21 46°21'48			16455 Dec 15 03:08	0°♈		
	16453 Jul 28 05:19	0°♊		morning set	16455 Dec 18 13:57	4°♈17'34		
greatest brilliancy	16453 Jul 31 05:48	1°♊10'55 -4.9m			16456 Jan 08 05:58	0°♌		
retrograde	16453 Aug 09 21:39	2°♊55'42						
	16453 Aug 21 22:57	30°♋		superior conj	16456 Jan 24 22:22	20°♌43'06 1°22'55		
evening set	16453 Aug 25 18:26	28°♍00'50		minimum elong	16456 Jan 25 04:24	21°♌01'48 1°23'17		
inferior conj	16453 Aug 30 12:37	25°♍10'32 5°40'39		max. Earth dist.	16456 Jan 27 13:40	23°♌59'21 1.72705 AU		
minimum elong	16453 Aug 30 23:21	24°♍54'06 5°37'48			16456 Feb 01 10:03	0°♋		
min. Earth dist.	16453 Aug 31 04:41	24°♍45'56 0.27140 AU			16456 Feb 25 16:39	0°♐		
morning rise	16453 Sep 05 04:01	21°♍50'11		evening rise	16456 Mar 02 13:06	7°♐12'36		
direct	16453 Sep 20 08:46	17°♍18'09		desc. node	16456 Mar 09 17:52	16°♐04'06		
desc. node	16453 Sep 22 21:52	17°♍25'55			16456 Mar 21 02:06	0°♉		
greatest brilliancy	16453 Sep 30 15:09	19°♍17'10 -4.9m			16456 Apr 14 13:55	0°♊		
	16453 Oct 18 17:50	0°♊			16456 May 09 03:45	0°♉		
morning max el	16453 Nov 09 15:42	19°♊38'02 46°44'44			16456 Jun 02 20:37	0°♈		

	16456 Jun 27 19:50	0°♍			16459 Feb 16 03:45	0°♋	
asc. node	16456 Jun 30 10:25	3°♍06'15		morning set	16459 Feb 26 04:23	12°♋22'50	
	16456 Jul 23 08:20	0°♌			16459 Mar 12 10:50	0°♍	
	16456 Aug 19 02:25	0°♍					
evening max el	16456 Sep 01 23:59	14°♍28'59	46°39'03	superior conj	16459 Apr 04 14:39	28°♍34'31	0°06'35
	16456 Sep 18 15:55	0°♌		minimum elong	16459 Apr 04 16:06	28°♍39'00	0°06'16
greatest brilliancy	16456 Oct 11 10:19	14°♌45'13	-4.9m	behind sun begin	16459 Apr 03 18:07	27°♍31'11	
desc. node	16456 Oct 20 08:06	16°♌50'44		behind sun end	16459 Apr 05 14:05	29°♍46'48	
retrograde	16456 Oct 22 05:22	16°♌54'56		max. Earth dist.	16459 Apr 04 14:26	28°♍33'51	1.73083 AU
evening set	16456 Nov 06 10:11	12°♌25'52			16459 Apr 05 18:22	0°♌	
min. Earth dist.	16456 Nov 11 10:45	9°♌28'39	0.27361 AU	desc. node	16459 Apr 07 07:14	1°♌53'42	
inferior conj	16456 Nov 12 03:56	9°♌02'22	-5°31'07		16459 Apr 30 01:56	0°♌	
minimum elong	16456 Nov 11 17:19	9°♌18'36	5°27'50	evening rise	16459 May 12 18:56	15°♌41'39	
morning rise	16456 Nov 17 00:54	6°♌08'34			16459 May 24 08:48	0°♌	
direct	16456 Dec 03 00:51	1°♌16'28			16459 Jun 17 14:59	0°♌	
greatest brilliancy	16456 Dec 12 12:23	2°♌55'07	-4.8m		16459 Jul 11 21:34	0°♍	
	16457 Jan 19 07:42	0°♌		asc. node	16459 Jul 28 23:20	21°♍01'57	
morning max el	16457 Jan 21 07:10	1°♌54'17	46°02'59		16459 Aug 05 06:35	0°♌	
asc. node	16457 Feb 10 08:27	22°♌30'20			16459 Aug 29 21:00	0°♍	
	16457 Feb 17 05:53	0°♌			16459 Sep 23 22:10	0°♌	
	16457 Mar 15 17:27	0°♋			16459 Oct 19 22:25	0°♌	
	16457 Apr 10 04:52	0°♍		evening max el	16459 Nov 13 19:15	26°♌26'40	46°30'06
	16457 May 05 03:43	0°♌			16459 Nov 17 10:27	0°♌	
	16457 May 29 18:38	0°♌		desc. node	16459 Nov 17 18:55	0°♌20'23	
desc. node	16457 Jun 02 06:51	4°♌18'05		greatest brilliancy	16459 Dec 23 10:24	26°♌13'06	-4.8m
	16457 Jun 23 03:32	0°♌		retrograde	16460 Jan 02 18:09	28°♌10'51	
	16457 Jul 17 07:38	0°♌		evening set	16460 Jan 21 00:27	21°♌54'48	
morning set	16457 Jul 21 17:26	5°♌29'38		inferior conj	16460 Jan 24 03:26	19°♌59'24	-8°32'22
	16457 Aug 10 08:25	0°♍		minimum elong	16460 Jan 24 09:52	19°♌49'24	8°31'19
max. Earth dist.	16457 Aug 29 02:44	23°♍29'23	1.71600 AU	min. Earth dist.	16460 Jan 24 00:12	20°♌04'26	0.28524 AU
				morning rise	16460 Jan 27 19:22	17°♌44'50	
superior conj	16457 Aug 30 08:45	25°♍03'22	-0°54'05	direct	16460 Feb 14 08:09	11°♌55'13	
minimum elong	16457 Aug 30 19:58	25°♍38'28	0°53'45	greatest brilliancy	16460 Feb 24 15:33	13°♌51'34	-4.8m
	16457 Sep 03 07:29	0°♌		asc. node	16460 Mar 09 18:25	21°♌27'02	
asc. node	16457 Sep 23 00:21	24°♌41'09			16460 Mar 20 19:30	0°♋	
	16457 Sep 27 06:10	0°♍		morning max el	16460 Apr 03 11:06	12°♋29'28	45°44'55
evening rise	16457 Oct 09 03:58	14°♍54'25			16460 Apr 20 13:17	0°♍	
	16457 Oct 21 05:36	0°♌			16460 May 17 12:48	0°♌	
	16457 Nov 14 07:14	0°♌			16460 Jun 12 04:11	0°♌	
	16457 Dec 08 13:29	0°♌		desc. node	16460 Jun 29 18:39	21°♌06'53	
	16458 Jan 02 03:47	0°♋			16460 Jul 07 02:36	0°♌	
desc. node	16458 Jan 12 17:04	12°♋41'51			16460 Jul 31 14:27	0°♌	
	16458 Jan 27 06:17	0°♍			16460 Aug 24 19:44	0°♍	
	16458 Feb 22 02:43	0°♌			16460 Sep 17 21:27	0°♌	
	16458 Mar 21 06:34	0°♌		morning set	16460 Oct 03 17:21	19°♌46'39	
evening max el	16458 Apr 07 08:29	17°♌27'08	46°02'11		16460 Oct 11 21:32	0°♍	
	16458 Apr 21 00:18	0°♌		asc. node	16460 Oct 20 13:34	10°♍50'41	
asc. node	16458 May 05 13:10	10°♌56'58			16460 Nov 04 21:05	0°♌	
greatest brilliancy	16458 May 16 22:39	16°♌39'50	-4.8m				
retrograde	16458 May 26 17:04	18°♌26'46		superior conj	16460 Nov 11 23:40	8°♌53'29	0°51'34
evening set	16458 Jun 12 20:36	12°♌47'18		minimum elong	16460 Nov 11 13:23	8°♌21'21	0°51'42
inferior conj	16458 Jun 16 17:53	10°♌23'32	8°19'51	max. Earth dist.	16460 Nov 13 06:59	10°♌31'24	1.71840 AU
minimum elong	16458 Jun 16 10:03	10°♌35'50	8°18'16		16460 Nov 28 21:01	0°♌	
min. Earth dist.	16458 Jun 16 20:25	10°♌19'34	0.28159 AU	evening rise	16460 Dec 19 20:25	26°♌08'40	
morning rise	16458 Jun 19 23:22	8°♌23'01			16460 Dec 22 22:52	0°♌	
direct	16458 Jul 07 19:46	2°♌13'59			16461 Jan 16 04:36	0°♋	
greatest brilliancy	16458 Jul 17 22:55	4°♌09'06	-4.8m	desc. node	16461 Feb 09 06:15	29°♋30'18	
	16458 Aug 22 08:22	0°♌			16461 Feb 09 15:59	0°♍	
desc. node	16458 Aug 25 13:46	3°♌09'23			16461 Mar 06 10:02	0°♌	
morning max el	16458 Aug 27 03:43	4°♌43'57	46°51'27		16461 Mar 31 11:37	0°♌	
	16458 Sep 19 20:10	0°♍			16461 Apr 25 23:42	0°♌	
	16458 Oct 15 22:36	0°♌			16461 May 22 07:53	0°♌	
	16458 Nov 10 03:39	0°♍		asc. node	16461 Jun 02 00:19	11°♌40'07	
	16458 Dec 04 22:29	0°♌		evening max el	16461 Jun 18 17:32	28°♌57'15	46°20'56
asc. node	16458 Dec 16 12:34	14°♌08'14			16461 Jun 19 19:05	0°♍	
	16458 Dec 29 11:21	0°♌		greatest brilliancy	16461 Jul 28 19:17	28°♍48'05	-4.9m
	16459 Jan 22 20:28	0°♌			16461 Aug 02 04:31	0°♌	

retrograde	16461 Aug 07 10:39	0° Ω 32'00	superior conj	16464 Jan 22 14:37	18° \approx 31'21	1°23'55
	16461 Aug 12 13:32	30° \mathbb{R} \mathbb{M}	minimum elong	16464 Jan 22 20:00	18° \approx 48'04	1°24'19
evening set	16461 Aug 23 10:48	25° \mathbb{M} 32'28	max. Earth dist.	16464 Jan 25 04:17	21° \approx 42'35	1.72673 AU
inferior conj	16461 Aug 28 01:34	22° \mathbb{M} 46'30 5°59'05		16464 Jan 31 20:48	0° \mathbb{H}	
minimum elong	16461 Aug 28 12:29	22° \mathbb{M} 29'45 5°56'16		16464 Feb 25 03:25	0° \mathbb{Y}	
min. Earth dist.	16461 Aug 28 17:56	22° \mathbb{M} 21'23 0.27171 AU	evening rise	16464 Feb 29 04:56	5° \mathbb{Y} 00'20	
morning rise	16461 Sep 02 13:59	19° \mathbb{M} 29'56	desc. node	16464 Mar 08 19:36	15° \mathbb{Y} 36'06	
direct	16461 Sep 17 22:27	14° \mathbb{M} 53'41		16464 Mar 20 12:59	0° \mathbb{B}	
desc. node	16461 Sep 21 23:43	15° \mathbb{M} 13'07		16464 Apr 14 01:03	0° \mathbb{I}	
greatest brilliancy	16461 Sep 28 04:00	16° \mathbb{M} 52'00 -4.9m		16464 May 08 15:16	0° \mathbb{G}	
	16461 Oct 19 07:52	0° Ω		16464 Jun 02 08:45	0° Ω	
morning max el	16461 Nov 07 05:27	17° Ω 16'13 46°45'47		16464 Jun 27 08:57	0° \mathbb{M}	
	16461 Nov 19 14:34	0° \mathbb{M}	asc. node	16464 Jun 29 12:19	2° \mathbb{M} 32'33	
	16461 Dec 16 17:58	0° \mathbb{J}		16464 Jul 22 23:15	0° Ω	
	16462 Jan 11 13:17	0° \mathbb{B}		16464 Aug 18 21:23	0° \mathbb{M}	
asc. node	16462 Jan 12 23:51	1° \mathbb{B} 42'05	evening max el	16464 Aug 30 12:34	12° \mathbb{M} 03'00 46°38'46	
	16462 Feb 05 16:40	0° \approx		16464 Sep 19 03:00	0° \mathbb{J}	
	16462 Mar 02 11:04	0° \mathbb{H}	greatest brilliancy	16464 Oct 09 00:48	12° \mathbb{J} 22'34 -4.9m	
	16462 Mar 27 00:30	0° \mathbb{Y}	desc. node	16464 Oct 19 10:01	14° \mathbb{J} 31'30	
	16462 Apr 20 10:58	0° \mathbb{B}	retrograde	16464 Oct 19 18:36	14° \mathbb{J} 31'39	
desc. node	16462 May 04 20:18	17° \mathbb{B} 43'33	evening set	16464 Nov 03 20:47	10° \mathbb{J} 06'27	
morning set	16462 May 07 00:10	20° \mathbb{B} 23'28	min. Earth dist.	16464 Nov 09 00:57	7° \mathbb{J} 04'39 0.27316 AU	
	16462 May 14 18:59	0° \mathbb{I}	inferior conj	16464 Nov 09 17:07	6° \mathbb{J} 39'58 -5°12'13	
	16462 Jun 08 00:21	0° \mathbb{G}	minimum elong	16464 Nov 09 06:48	6° \mathbb{J} 55'43 5°08'55	
max. Earth dist.	16462 Jun 12 06:15	5° \mathbb{G} 16'19 1.72389 AU	morning rise	16464 Nov 14 17:10	3° \mathbb{J} 41'52	
				16464 Nov 23 02:48	30° \mathbb{R} \mathbb{M}	
superior conj	16462 Jun 15 02:06	8° \mathbb{G} 47'01 -1°20'10	direct	16464 Nov 30 13:02	28° \mathbb{M} 54'15	
minimum elong	16462 Jun 14 17:38	8° \mathbb{G} 20'44 1°20'38		16464 Dec 08 05:41	0° \mathbb{J}	
	16462 Jul 02 03:13	0° Ω	greatest brilliancy	16464 Dec 10 02:19	0° \mathbb{J} 34'09 -4.8m	
evening rise	16462 Jul 24 09:28	27° Ω 45'46	morning max el	16465 Jan 18 20:06	29° \mathbb{J} 32'52 46°04'26	
	16462 Jul 26 04:29	0° \mathbb{M}		16465 Jan 19 07:16	0° \mathbb{B}	
	16462 Aug 19 05:26	0° Ω	asc. node	16465 Feb 09 10:18	21° \mathbb{B} 48'41	
asc. node	16462 Aug 25 12:37	7° Ω 51'21		16465 Feb 16 22:04	0° \approx	
	16462 Sep 12 07:29	0° \mathbb{M}		16465 Mar 15 07:01	0° \mathbb{H}	
	16462 Oct 06 12:30	0° \mathbb{J}		16465 Apr 09 17:10	0° \mathbb{Y}	
	16462 Oct 30 23:40	0° \mathbb{B}		16465 May 04 15:19	0° \mathbb{B}	
	16462 Nov 24 22:53	0° \approx		16465 May 29 05:51	0° \mathbb{I}	
desc. node	16462 Dec 15 06:30	23° \approx 38'56	desc. node	16465 Jun 01 08:50	3° \mathbb{I} 49'52	
	16462 Dec 20 20:56	0° \mathbb{H}		16465 Jun 22 14:33	0° \mathbb{G}	
	16463 Jan 17 18:51	0° \mathbb{Y}		16465 Jul 16 18:34	0° Ω	
evening max el	16463 Jan 24 04:25	6° \mathbb{Y} 20'09 46°07'47	morning set	16465 Jul 19 05:52	3° Ω 04'43	
	16463 Feb 22 01:46	0° \mathbb{B}		16465 Aug 09 19:20	0° \mathbb{M}	
greatest brilliancy	16463 Mar 04 05:43	4° \mathbb{B} 57'57 -4.8m	max. Earth dist.	16465 Aug 26 12:07	20° \mathbb{M} 54'12 1.71617 AU	
retrograde	16463 Mar 14 08:15	6° \mathbb{B} 49'25				
evening set	16463 Mar 29 10:36	2° \mathbb{B} 23'50	superior conj	16465 Aug 27 20:58	22° \mathbb{M} 37'05 -0°57'05	
	16463 Apr 02 12:00	30° \mathbb{R} \mathbb{Y}	minimum elong	16465 Aug 28 08:25	23° \mathbb{M} 12'58 0°56'47	
inferior conj	16463 Apr 04 15:45	28° \mathbb{Y} 39'00 -0°37'47		16465 Sep 02 18:25	0° Ω	
minimum elong	16463 Apr 04 17:11	28° \mathbb{Y} 36'44 0°37'35	asc. node	16465 Sep 22 02:09	24° Ω 12'22	
min. Earth dist.	16463 Apr 04 17:00	28° \mathbb{Y} 37'02 0.28412 AU		16465 Sep 26 17:09	0° \mathbb{M}	
asc. node	16463 Apr 07 04:29	27° \mathbb{Y} 04'11	evening rise	16465 Oct 06 17:04	12° \mathbb{M} 30'47	
morning rise	16463 Apr 10 23:44	24° \mathbb{Y} 50'31		16465 Oct 20 16:40	0° \mathbb{J}	
direct	16463 Apr 25 21:37	20° \mathbb{Y} 29'58		16465 Nov 13 18:25	0° \mathbb{B}	
greatest brilliancy	16463 May 06 10:45	22° \mathbb{Y} 32'51 -4.8m		16465 Dec 08 00:54	0° \approx	
	16463 May 20 02:18	0° \mathbb{B}		16466 Jan 01 15:40	0° \mathbb{H}	
morning max el	16463 Jun 14 08:24	21° \mathbb{B} 42'56 46°11'44	desc. node	16466 Jan 11 18:56	12° \mathbb{H} 10'58	
	16463 Jun 22 13:08	0° \mathbb{I}		16466 Jan 26 19:00	0° \mathbb{Y}	
	16463 Jul 19 23:06	0° \mathbb{G}		16466 Feb 21 17:03	0° \mathbb{B}	
desc. node	16463 Jul 28 05:30	9° \mathbb{G} 30'33		16466 Mar 21 00:31	0° \mathbb{I}	
	16463 Aug 14 15:25	0° Ω	evening max el	16466 Apr 04 23:26	15° \mathbb{I} 12'01 46°02'07	
	16463 Sep 08 12:35	0° \mathbb{M}		16466 Apr 21 08:01	0° \mathbb{G}	
	16463 Oct 03 00:08	0° Ω	asc. node	16466 May 04 15:12	9° \mathbb{G} 35'24	
	16463 Oct 27 06:53	0° \mathbb{M}	greatest brilliancy	16466 May 14 11:57	14° \mathbb{G} 22'00 -4.8m	
asc. node	16463 Nov 18 02:24	27° \mathbb{M} 03'50	retrograde	16466 May 24 08:17	16° \mathbb{G} 10'26	
	16463 Nov 20 11:07	0° \mathbb{J}	evening set	16466 Jun 10 07:34	10° \mathbb{G} 36'04	
	16463 Dec 14 14:02	0° \mathbb{B}	inferior conj	16466 Jun 14 08:48	8° \mathbb{G} 06'29 8°10'44	
morning set	16463 Dec 16 04:49	2° \mathbb{B} 00'43	minimum elong	16466 Jun 14 00:24	8° \mathbb{G} 19'39 8°08'59	
	16464 Jan 07 16:46	0° \approx	min. Earth dist.	16466 Jun 14 10:15	8° \mathbb{G} 04'12 0.28177 AU	

morning rise	16466 Jun 17 17:09	6° \mathfrak{D} 01'48			16468 Nov 28 07:45	0° \mathfrak{Z}	
	16466 Jul 03 19:38	30° \mathfrak{R} II		evening rise	16468 Dec 17 11:38	23° \mathfrak{Z} 53'12	
direct	16466 Jul 05 11:02	29° \mathfrak{II} 56'42			16468 Dec 22 09:38	0° \approx	
	16466 Jul 07 02:47	0° \mathfrak{D}			16469 Jan 15 15:31	0° \mathfrak{H}	
greatest brilliancy	16466 Jul 15 13:37	1° \mathfrak{D} 51'42	-4.8m	desc. node	16469 Feb 08 07:57	29° \mathfrak{H} 01'27	
	16466 Aug 22 07:57	0° \mathfrak{Q}			16469 Feb 09 03:09	0° \mathfrak{Y}	
desc. node	16466 Aug 24 15:37	2° \mathfrak{Q} 18'10			16469 Mar 05 21:38	0° \mathfrak{B}	
morning max el	16466 Aug 24 19:18	2° \mathfrak{Q} 27'22	46°50'34		16469 Mar 30 23:57	0° \mathfrak{II}	
	16466 Sep 19 12:36	0° \mathfrak{M}			16469 Apr 25 13:19	0° \mathfrak{D}	
	16466 Oct 15 12:33	0° \mathfrak{L}			16469 May 22 00:08	0° \mathfrak{Q}	
	16466 Nov 09 16:23	0° \mathfrak{M}		asc. node	16469 Jun 01 02:14	10° \mathfrak{Q} 56'57	
	16466 Dec 04 10:28	0° \mathfrak{X}		evening max el	16469 Jun 16 07:21	26° \mathfrak{Q} 36'53	46°20'03
asc. node	16466 Dec 15 14:29	13° \mathfrak{X} 38'19			16469 Jun 19 18:50	0° \mathfrak{M}	
	16466 Dec 28 22:49	0° \mathfrak{Z}		greatest brilliancy	16469 Jul 26 09:32	26° \mathfrak{M} 26'35	-4.8m
	16467 Jan 22 07:33	0° \approx		retrograde	16469 Aug 04 23:24	28° \mathfrak{M} 09'00	
	16467 Feb 15 14:37	0° \mathfrak{H}		evening set	16469 Aug 21 03:24	23° \mathfrak{M} 04'51	
morning set	16467 Feb 23 21:03	10° \mathfrak{H} 12'41		inferior conj	16469 Aug 25 14:45	20° \mathfrak{M} 23'24	6°16'45
	16467 Mar 11 21:36	0° \mathfrak{Y}		minimum elong	16469 Aug 26 01:45	20° \mathfrak{M} 06'27	6°14'00
				min. Earth dist.	16469 Aug 26 07:39	19° \mathfrak{M} 57'23	0.27201 AU
superior conj	16467 Apr 02 06:10	26° \mathfrak{Y} 21'06	0°10'03	morning rise	16469 Aug 30 23:54	17° \mathfrak{M} 10'48	
minimum elong	16467 Apr 02 08:25	26° \mathfrak{Y} 28'03	0°09'43	direct	16469 Sep 15 11:41	12° \mathfrak{M} 30'05	
behind sun begin	16467 Apr 01 13:26	25° \mathfrak{Y} 29'30		desc. node	16469 Sep 21 01:36	13° \mathfrak{M} 06'21	
behind sun end	16467 Apr 03 03:23	27° \mathfrak{Y} 26'36		greatest brilliancy	16469 Sep 25 17:24	14° \mathfrak{M} 28'05	-4.9m
max. Earth dist.	16467 Apr 02 11:09	26° \mathfrak{Y} 36'31	1.73088 AU		16469 Oct 19 18:05	0° \mathfrak{L}	
	16467 Apr 05 05:08	0° \mathfrak{B}		morning max el	16469 Nov 04 18:27	14° \mathfrak{L} 52'53	46°46'47
desc. node	16467 Apr 06 09:04	1° \mathfrak{B} 26'09			16469 Nov 19 09:12	0° \mathfrak{M}	
	16467 Apr 29 12:45	0° \mathfrak{II}			16469 Dec 16 08:37	0° \mathfrak{X}	
evening rise	16467 May 10 10:09	13° \mathfrak{II} 26'54			16470 Jan 11 02:08	0° \mathfrak{Z}	
	16467 May 23 19:44	0° \mathfrak{D}		asc. node	16470 Jan 12 01:38	1° \mathfrak{Z} 09'30	
	16467 Jun 17 02:05	0° \mathfrak{Q}			16470 Feb 05 04:33	0° \approx	
	16467 Jul 11 08:57	0° \mathfrak{M}			16470 Mar 01 22:23	0° \mathfrak{H}	
asc. node	16467 Jul 28 01:07	20° \mathfrak{M} 31'29			16470 Mar 26 11:27	0° \mathfrak{Y}	
	16467 Aug 04 18:26	0° \mathfrak{L}			16470 Apr 19 21:42	0° \mathfrak{B}	
	16467 Aug 29 09:35	0° \mathfrak{M}		desc. node	16470 May 03 22:11	17° \mathfrak{B} 16'25	
	16467 Sep 23 12:01	0° \mathfrak{X}		morning set	16470 May 04 14:41	18° \mathfrak{B} 07'19	
	16467 Oct 19 14:53	0° \mathfrak{Z}			16470 May 14 05:37	0° \mathfrak{II}	
evening max el	16467 Nov 11 10:50	24° \mathfrak{Z} 11'07	46°30'45		16470 Jun 07 10:58	0° \mathfrak{D}	
desc. node	16467 Nov 16 20:54	29° \mathfrak{Z} 27'09		max. Earth dist.	16470 Jun 09 18:25	2° \mathfrak{D} 52'05	1.72425 AU
	16467 Nov 17 10:46	0° \approx					
greatest brilliancy	16467 Dec 21 00:17	23° \mathfrak{A} 56'27	-4.8m	superior conj	16470 Jun 12 15:40	6° \mathfrak{D} 27'06	-1°18'35
retrograde	16467 Dec 31 09:49	25° \mathfrak{A} 55'24		minimum elong	16470 Jun 12 06:38	5° \mathfrak{D} 59'03	1°19'01
evening set	16468 Jan 18 17:28	19° \mathfrak{A} 36'23			16470 Jul 01 13:54	0° \mathfrak{Q}	
inferior conj	16468 Jan 21 18:21	17° \mathfrak{A} 44'08	-8°38'49	evening rise	16470 Jul 21 21:42	25° \mathfrak{Q} 20'34	
minimum elong	16468 Jan 22 00:05	17° \mathfrak{A} 35'14	8°37'52		16470 Jul 25 15:15	0° \mathfrak{M}	
min. Earth dist.	16468 Jan 21 13:46	17° \mathfrak{A} 51'15	0.28506 AU		16470 Aug 18 16:20	0° \mathfrak{L}	
morning rise	16468 Jan 25 06:49	15° \mathfrak{A} 34'54		asc. node	16470 Aug 24 14:25	7° \mathfrak{L} 22'52	
direct	16468 Feb 11 23:31	9° \mathfrak{A} 40'40			16470 Sep 11 18:34	0° \mathfrak{M}	
greatest brilliancy	16468 Feb 22 04:31	11° \mathfrak{A} 35'16	-4.8m		16470 Oct 05 23:53	0° \mathfrak{X}	
asc. node	16468 Mar 08 20:17	20° \mathfrak{A} 13'51			16470 Oct 30 11:34	0° \mathfrak{Z}	
	16468 Mar 21 00:52	0° \mathfrak{H}			16470 Nov 24 11:45	0° \approx	
morning max el	16468 Apr 01 02:34	10° \mathfrak{H} 16'12	45°44'42	desc. node	16470 Dec 14 08:18	23° \mathfrak{A} 03'26	
	16468 Apr 20 06:35	0° \mathfrak{Y}			16470 Dec 20 11:49	0° \mathfrak{H}	
	16468 May 17 02:47	0° \mathfrak{B}			16471 Jan 17 15:03	0° \mathfrak{Y}	
	16468 Jun 11 16:43	0° \mathfrak{II}		evening max el	16471 Jan 21 18:32	4° \mathfrak{Y} 04'34	46°08'15
desc. node	16468 Jun 28 20:25	20° \mathfrak{II} 36'07			16471 Feb 23 14:50	0° \mathfrak{B}	
	16468 Jul 06 14:22	0° \mathfrak{D}		greatest brilliancy	16471 Mar 01 21:53	2° \mathfrak{B} 46'14	-4.8m
	16468 Jul 31 01:46	0° \mathfrak{Q}		retrograde	16471 Mar 11 23:04	4° \mathfrak{B} 36'53	
	16468 Aug 24 06:48	0° \mathfrak{M}		evening set	16471 Mar 27 03:13	0° \mathfrak{B} 09'30	
	16468 Sep 17 08:21	0° \mathfrak{L}			16471 Mar 27 10:04	30° \mathfrak{R} \mathfrak{Y}	
morning set	16468 Oct 01 06:38	17° \mathfrak{L} 24'21		inferior conj	16471 Apr 02 07:16	26° \mathfrak{Y} 26'30	-0°59'08
	16468 Oct 11 08:20	0° \mathfrak{M}		minimum elong	16471 Apr 02 09:31	26° \mathfrak{Y} 22'58	0°58'40
asc. node	16468 Oct 19 15:28	10° \mathfrak{M} 22'56		min. Earth dist.	16471 Apr 02 09:20	26° \mathfrak{Y} 23'14	0.28422 AU
	16468 Nov 04 07:48	0° \mathfrak{X}		asc. node	16471 Apr 06 06:31	23° \mathfrak{Y} 59'16	
				morning rise	16471 Apr 08 15:40	22° \mathfrak{Y} 37'15	
superior conj	16468 Nov 09 13:47	6° \mathfrak{X} 33'56	0°48'34	direct	16471 Apr 23 12:34	18° \mathfrak{Y} 17'23	
minimum elong	16468 Nov 09 03:47	6° \mathfrak{X} 02'42	0°48'42	greatest brilliancy	16471 May 04 03:23	20° \mathfrak{Y} 21'15	-4.8m
max. Earth dist.	16468 Nov 10 21:44	8° \mathfrak{X} 13'51	1.71821 AU		16471 May 20 19:51	0° \mathfrak{B}	

morning max el	16471 Jun 11 22:24	19° ♄ 25'41	46°10'22			16474 Jan 01 03:10	0° ♁		
	16471 Jun 22 08:00	0° ♁		desc. node		16474 Jan 10 20:42	11° ♁ 41'03		
	16471 Jul 19 13:39	0° ♁				16474 Jan 26 07:21	0° ♁		
desc. node	16471 Jul 27 07:19	8° ♁ 55'38				16474 Feb 21 07:04	0° ♄		
	16471 Aug 14 04:15	0° ♁				16474 Mar 20 18:25	0° ♁		
	16471 Sep 08 00:31	0° ♁		evening max el		16474 Apr 02 15:02	12° ♁ 59'47	46°01'50	
	16471 Oct 02 11:31	0° ♁				16474 Apr 21 18:05	0° ♁		
	16471 Oct 26 17:54	0° ♁		asc. node		16474 May 03 17:03	8° ♁ 11'35		
asc. node	16471 Nov 17 04:16	26° ♁ 36'10		greatest brilliancy		16474 May 12 01:01	12° ♁ 04'40	-4.8m	
	16471 Nov 19 21:52	0° ♁		retrograde		16474 May 21 23:16	13° ♁ 54'18		
morning set	16471 Dec 13 19:51	29° ♁ 45'17		evening set		16474 Jun 07 18:20	8° ♁ 25'18		
	16471 Dec 14 00:35	0° ♁		inferior conj		16474 Jun 11 23:30	5° ♁ 49'42	8°00'45	
	16472 Jan 07 03:12	0° ♁		minimum elong		16474 Jun 11 14:37	6° ♁ 03'38	7°58'50	
				min. Earth dist.		16474 Jun 11 23:53	5° ♁ 49'06	0.28195 AU	
superior conj	16472 Jan 20 07:00	16° ♁ 20'58	1°24'47	morning rise		16474 Jun 15 10:50	3° ♁ 40'33		
minimum elong	16472 Jan 20 11:41	16° ♁ 35'30	1°25'13			16474 Jun 22 09:58	30° ♁ 11		
max. Earth dist.	16472 Jan 22 18:29	19° ♁ 25'30	1.72647 AU	direct		16474 Jul 03 02:29	27° ♁ 39'53		
	16472 Jan 31 07:13	0° ♁		greatest brilliancy		16474 Jul 13 03:52	29° ♁ 34'10	-4.8m	
	16472 Feb 24 13:54	0° ♁				16474 Jul 14 07:07	0° ♁		
evening rise	16472 Feb 26 20:46	2° ♁ 48'59				16474 Aug 22 06:14	0° ♁		
desc. node	16472 Mar 07 21:28	15° ♁ 09'22		morning max el		16474 Aug 22 10:45	0° ♁ 11'18	46°49'42	
	16472 Mar 19 23:37	0° ♁		desc. node		16474 Aug 23 17:35	1° ♁ 28'52		
	16472 Apr 13 11:57	0° ♁				16474 Sep 19 04:23	0° ♁		
	16472 May 08 02:35	0° ♁				16474 Oct 15 02:00	0° ♁		
	16472 Jun 01 20:40	0° ♁				16474 Nov 09 04:37	0° ♁		
	16472 Jun 26 21:51	0° ♁				16474 Dec 03 21:58	0° ♁		
asc. node	16472 Jun 28 14:06	1° ♁ 59'16		asc. node		16474 Dec 14 16:12	13° ♁ 09'10		
	16472 Jul 22 14:01	0° ♁				16474 Dec 28 09:49	0° ♁		
	16472 Aug 18 16:27	0° ♁				16475 Jan 21 18:14	0° ♁		
evening max el	16472 Aug 28 01:30	9° ♁ 39'09	46°38'34			16475 Feb 15 01:05	0° ♁		
	16472 Sep 19 17:13	0° ♁		morning set		16475 Feb 21 13:55	8° ♁ 04'22		
greatest brilliancy	16472 Oct 06 14:48	10° ♁ 00'23	-4.9m			16475 Mar 11 07:58	0° ♁		
retrograde	16472 Oct 17 08:14	12° ♁ 09'33							
desc. node	16472 Oct 18 12:03	12° ♁ 07'56		superior conj		16475 Mar 30 21:54	24° ♁ 09'40	0°13'29	
evening set	16472 Nov 01 07:35	7° ♁ 47'38		minimum elong		16475 Mar 31 00:55	24° ♁ 18'59	0°13'08	
min. Earth dist.	16472 Nov 06 14:55	4° ♁ 41'52	0.27274 AU	behind sun begin		16475 Mar 30 11:20	23° ♁ 37'04		
inferior conj	16472 Nov 07 06:15	4° ♁ 18'31	-4°52'32	behind sun end		16475 Mar 31 14:30	25° ♁ 00'54		
minimum elong	16472 Nov 06 20:19	4° ♁ 33'39	4°49'16	max. Earth dist.		16475 Mar 31 08:02	24° ♁ 40'56	1.73090 AU	
morning rise	16472 Nov 12 09:23	1° ♁ 16'27				16475 Apr 04 15:29	0° ♁		
	16472 Nov 14 19:17	30° ♁ 16		desc. node		16475 Apr 05 10:56	0° ♁ 59'59		
direct	16472 Nov 28 01:29	26° ♁ 32'56				16475 Apr 28 23:10	0° ♁		
greatest brilliancy	16472 Dec 07 15:56	28° ♁ 13'59	-4.8m	evening rise		16475 May 08 01:27	11° ♁ 13'37		
	16472 Dec 12 01:46	0° ♁				16475 May 23 06:18	0° ♁		
morning max el	16473 Jan 16 10:00	27° ♁ 15'11	46°05'58			16475 Jun 16 12:53	0° ♁		
	16473 Jan 19 05:17	0° ♁				16475 Jul 10 20:07	0° ♁		
asc. node	16473 Feb 08 12:12	21° ♁ 09'00		asc. node		16475 Jul 27 02:55	20° ♁ 01'51		
	16473 Feb 16 13:28	0° ♁				16475 Aug 04 06:04	0° ♁		
	16473 Mar 14 20:01	0° ♁				16475 Aug 28 21:57	0° ♁		
	16473 Apr 09 05:00	0° ♁				16475 Sep 23 01:41	0° ♁		
	16473 May 04 02:33	0° ♁				16475 Oct 19 07:17	0° ♁		
	16473 May 28 16:46	0° ♁		evening max el		16475 Nov 09 02:16	21° ♁ 56'10	46°31'27	
desc. node	16473 May 31 10:36	3° ♁ 21'57		desc. node		16475 Nov 15 22:42	28° ♁ 33'35		
	16473 Jun 22 01:16	0° ♁				16475 Nov 17 11:51	0° ♁		
	16473 Jul 16 05:10	0° ♁		greatest brilliancy		16475 Dec 18 14:47	21° ♁ 41'38	-4.8m	
morning set	16473 Jul 16 18:06	0° ♁ 40'15		retrograde		16475 Dec 29 01:10	23° ♁ 40'54		
	16473 Aug 09 05:52	0° ♁		evening set		16476 Jan 16 10:17	17° ♁ 19'37		
max. Earth dist.	16473 Aug 24 00:24	18° ♁ 29'21	1.71631 AU	inferior conj		16476 Jan 19 09:17	15° ♁ 30'01	-8°44'29	
				minimum elong		16476 Jan 19 14:17	15° ♁ 22'15	8°43'38	
superior conj	16473 Aug 25 09:00	20° ♁ 11'27	-0°59'59	min. Earth dist.		16476 Jan 19 03:35	15° ♁ 38'54	0.28484 AU	
minimum elong	16473 Aug 25 20:37	20° ♁ 47'49	0°59'42	morning rise		16476 Jan 22 18:26	13° ♁ 25'41		
	16473 Sep 02 04:57	0° ♁		direct		16476 Feb 09 14:46	7° ♁ 27'20		
asc. node	16473 Sep 21 04:01	23° ♁ 45'07		greatest brilliancy		16476 Feb 19 17:30	9° ♁ 19'55	-4.8m	
	16473 Sep 26 03:44	0° ♁		asc. node		16476 Mar 07 22:17	19° ♁ 04'07		
evening rise	16473 Oct 04 06:09	10° ♁ 08'26				16476 Mar 21 03:54	0° ♁		
	16473 Oct 20 03:20	0° ♁		morning max el		16476 Mar 29 17:18	8° ♁ 02'13	45°44'34	
	16473 Nov 13 05:13	0° ♁				16476 Apr 19 23:07	0° ♁		
	16473 Dec 07 11:57	0° ♁				16476 May 16 16:16	0° ♁		

	16476 Jun 11 04:51	0°♐	evening max el	16479 Jan 19 08:29	1°♑48'42	46°09'00
desc. node	16476 Jun 27 22:15	20°♐06'32		16479 Feb 26 00:58	0°♐	
	16476 Jul 06 01:48	0°♐	greatest brilliancy	16479 Feb 27 13:39	0°♐34'22	-4.8m
	16476 Jul 30 12:50	0°♐	retrograde	16479 Mar 09 14:18	2°♐24'58	
	16476 Aug 23 17:40	0°♐		16479 Mar 20 15:03	30°♐	
	16476 Sep 16 19:04	0°♐	evening set	16479 Mar 24 20:06	27°♐55'11	
morning set	16476 Sep 28 19:28	15°♐01'10	inferior conj	16479 Mar 30 22:54	24°♐14'19	-1°20'19
	16476 Oct 10 18:56	0°♐	minimum elong	16479 Mar 31 01:56	24°♐09'33	1°19'34
asc. node	16476 Oct 18 17:17	9°♐55'30	min. Earth dist.	16479 Mar 31 01:38	24°♐10'02	0.28433 AU
	16476 Nov 03 18:19	0°♐	asc. node	16479 Apr 05 08:26	20°♐57'08	
			morning rise	16479 Apr 06 07:33	20°♐24'47	
superior conj	16476 Nov 07 03:30	4°♐13'55	direct	16479 Apr 21 03:41	16°♐04'56	
minimum elong	16476 Nov 06 17:53	3°♐43'50	greatest brilliancy	16479 May 01 20:10	18°♐10'08	-4.8m
max. Earth dist.	16476 Nov 08 10:45	5°♐51'38		16479 May 21 08:48	0°♐	
	16476 Nov 27 18:13	0°♐	morning max el	16479 Jun 09 13:34	17°♐11'26	46°09'06
evening rise	16476 Dec 15 02:39	21°♐37'52		16479 Jun 22 02:20	0°♐	
	16476 Dec 21 20:10	0°♐		16479 Jul 19 04:01	0°♐	
	16477 Jan 15 02:12	0°♐	desc. node	16479 Jul 26 09:17	8°♐21'22	
desc. node	16477 Feb 07 09:51	28°♐33'55		16479 Aug 13 16:59	0°♐	
	16477 Feb 08 14:07	0°♐		16479 Sep 07 12:24	0°♐	
	16477 Mar 05 09:02	0°♐		16479 Oct 01 22:55	0°♐	
	16477 Mar 30 12:05	0°♐		16479 Oct 26 04:58	0°♐	
	16477 Apr 25 02:48	0°♐	asc. node	16479 Nov 16 06:00	26°♐07'42	
	16477 May 21 16:25	0°♐		16479 Nov 19 08:44	0°♐	
asc. node	16477 May 31 04:03	10°♐13'44	morning set	16479 Dec 11 10:34	27°♐28'15	
evening max el	16477 Jun 13 20:04	24°♐14'33		16479 Dec 13 11:18	0°♐	
	16477 Jun 19 19:28	0°♐		16480 Jan 06 13:49	0°♐	
greatest brilliancy	16477 Jul 23 23:52	24°♐05'30				
retrograde	16477 Aug 02 11:40	25°♐46'21	superior conj	16480 Jan 17 23:03	14°♐08'59	1°25'31
evening set	16477 Aug 18 19:56	20°♐37'07	minimum elong	16480 Jan 18 03:00	14°♐21'15	1°25'59
inferior conj	16477 Aug 23 03:51	18°♐00'30	max. Earth dist.	16480 Jan 20 09:05	17°♐09'07	1.72618 AU
minimum elong	16477 Aug 23 14:53	17°♐43'28		16480 Jan 30 17:47	0°♐	
min. Earth dist.	16477 Aug 23 21:35	17°♐33'08		16480 Feb 24 00:30	0°♐	
morning rise	16477 Aug 28 09:34	14°♐52'07	evening rise	16480 Feb 24 12:27	0°♐36'47	
direct	16477 Sep 13 00:30	10°♐06'13	desc. node	16480 Mar 06 23:18	14°♐42'08	
desc. node	16477 Sep 20 03:37	11°♐04'35		16480 Mar 19 10:24	0°♐	
greatest brilliancy	16477 Sep 23 07:26	12°♐04'50		16480 Apr 12 23:01	0°♐	
	16477 Oct 20 01:34	0°♐		16480 May 07 14:04	0°♐	
morning max el	16477 Nov 02 07:16	12°♐28'49		16480 Jun 01 08:46	0°♐	
	16477 Nov 19 03:22	0°♐		16480 Jun 26 11:00	0°♐	
	16477 Dec 15 23:01	0°♐	asc. node	16480 Jun 27 16:01	1°♐25'47	
	16478 Jan 10 14:48	0°♐		16480 Jul 22 05:06	0°♐	
asc. node	16478 Jan 11 03:36	0°♐37'58		16480 Aug 18 12:12	0°♐	
	16478 Feb 04 16:15	0°♐	evening max el	16480 Aug 25 15:30	7°♐17'59	46°38'24
	16478 Mar 01 09:31	0°♐		16480 Sep 20 12:25	0°♐	
	16478 Mar 25 22:15	0°♐	greatest brilliancy	16480 Oct 04 04:18	7°♐37'37	-4.9m
	16478 Apr 19 08:19	0°♐	retrograde	16480 Oct 14 22:22	9°♐47'22	
morning set	16478 May 02 05:30	15°♐52'23	desc. node	16480 Oct 17 13:49	9°♐38'50	
desc. node	16478 May 02 23:56	16°♐49'15	evening set	16480 Oct 29 18:44	5°♐28'21	
	16478 May 13 16:08	0°♐	min. Earth dist.	16480 Nov 04 04:40	2°♐19'11	0.27237 AU
	16478 Jun 06 21:29	0°♐	inferior conj	16480 Nov 04 19:26	1°♐56'44	-4°32'17
max. Earth dist.	16478 Jun 07 08:20	0°♐33'40	minimum elong	16480 Nov 04 09:58	2°♐11'09	4°29'06
				16480 Nov 08 01:10	30°♐	
superior conj	16478 Jun 10 05:38	4°♐08'47	morning rise	16480 Nov 10 01:35	28°♐50'57	
minimum elong	16478 Jun 09 20:05	3°♐39'08	direct	16480 Nov 25 14:39	24°♐11'20	
	16478 Jul 01 00:28	0°♐	greatest brilliancy	16480 Dec 05 05:11	25°♐52'58	-4.8m
evening rise	16478 Jul 19 10:20	22°♐57'05		16480 Dec 14 03:40	0°♐	
	16478 Jul 25 01:56	0°♐	morning max el	16481 Jan 14 00:51	24°♐59'04	46°07'20
	16478 Aug 18 03:10	0°♐		16481 Jan 19 02:45	0°♐	
asc. node	16478 Aug 23 16:21	6°♐54'55	asc. node	16481 Feb 07 14:10	20°♐29'04	
	16478 Sep 11 05:39	0°♐		16481 Feb 16 04:57	0°♐	
	16478 Oct 05 11:20	0°♐		16481 Mar 14 09:11	0°♐	
	16478 Oct 29 23:36	0°♐		16481 Apr 08 17:03	0°♐	
	16478 Nov 24 00:48	0°♐		16481 May 03 13:59	0°♐	
desc. node	16478 Dec 13 10:10	22°♐27'39		16481 May 28 03:52	0°♐	
	16478 Dec 20 02:58	0°♐	desc. node	16481 May 30 12:22	2°♐53'24	
	16479 Jan 17 11:57	0°♐		16481 Jun 21 12:12	0°♐	

morning set	16481 Jul 14 06:32	28°☿15'46		evening set	16484 Jan 14 02:54	15°♊02'59	
	16481 Jul 15 16:00	0°♊		min. Earth dist.	16484 Jan 16 17:52	13°♊25'44	0.28461 AU
	16481 Aug 08 16:40	0°♊		inferior conj	16484 Jan 17 00:24	13°♊15'33	-8°49'13
max. Earth dist.	16481 Aug 21 13:21	16°♊05'49	1.71641 AU	minimum elong	16484 Jan 17 04:36	13°♊09'01	8°48'29
				morning rise	16484 Jan 20 06:26	11°♊15'40	
superior conj	16481 Aug 22 21:18	17°♊45'49	-1°02'44	direct	16484 Feb 07 05:44	5°♊13'34	
minimum elong	16481 Aug 23 08:58	18°♊22'23	1°02'30	greatest brilliancy	16484 Feb 17 07:05	7°♊04'32	-4.8m
	16481 Sep 01 15:44	0°♊		asc. node	16484 Mar 07 00:10	17°♊55'20	
asc. node	16481 Sep 20 05:48	23°♊16'49			16484 Mar 21 05:48	0°♋	
	16481 Sep 25 14:33	0°♋		morning max el	16484 Mar 27 07:23	5°♋45'28	45°44'23
evening rise	16481 Oct 01 19:28	7°♋46'05			16484 Apr 19 15:44	0°♋	
	16481 Oct 19 14:13	0°♋			16484 May 16 06:03	0°♋	
	16481 Nov 12 16:15	0°♋			16484 Jun 10 17:20	0°♋	
	16481 Dec 06 23:16	0°♋		desc. node	16484 Jun 27 00:15	19°♋36'17	
	16481 Dec 31 15:00	0°♋			16484 Jul 05 13:36	0°♋	
desc. node	16482 Jan 09 22:37	11°♋10'32			16484 Jul 30 00:15	0°♋	
	16482 Jan 25 20:08	0°♋			16484 Aug 23 04:51	0°♋	
	16482 Feb 20 21:39	0°♋			16484 Sep 16 06:07	0°♋	
	16482 Mar 20 13:13	0°♋		morning set	16484 Sep 26 08:13	12°♋36'38	
evening max el	16482 Mar 31 07:07	10°♋47'45	46°01'39		16484 Oct 10 05:53	0°♋	
	16482 Apr 22 08:14	0°♋		asc. node	16484 Oct 17 19:02	9°♋26'46	
asc. node	16482 May 02 18:54	6°♋44'08			16484 Nov 03 05:12	0°♋	
greatest brilliancy	16482 May 09 14:42	9°♋47'27	-4.8m				
retrograde	16482 May 19 14:07	11°♋37'35		superior conj	16484 Nov 04 17:17	1°♋52'51	0°42'16
evening set	16482 Jun 05 05:20	6°♋14'15		minimum elong	16484 Nov 04 08:07	1°♋24'09	0°42'23
inferior conj	16482 Jun 09 14:23	3°♋32'36	7°50'01	max. Earth dist.	16484 Nov 05 20:58	3°♋19'25	1.71770 AU
minimum elong	16482 Jun 09 05:04	3°♋47'14	7°47'57		16484 Nov 27 05:05	0°♋	
min. Earth dist.	16482 Jun 09 13:50	3°♋33'27	0.28209 AU	evening rise	16484 Dec 12 17:48	19°♋21'45	
morning rise	16482 Jun 13 04:45	1°♋18'44			16484 Dec 21 07:04	0°♋	
	16482 Jun 15 10:48	30°♋11			16485 Jan 14 13:13	0°♋	
direct	16482 Jun 30 18:01	25°♋22'53		desc. node	16485 Feb 06 11:44	28°♋05'22	
greatest brilliancy	16482 Jul 10 18:15	27°♋16'09	-4.8m		16485 Feb 08 01:24	0°♋	
	16482 Jul 16 20:22	0°♋			16485 Mar 04 20:47	0°♋	
morning max el	16482 Aug 20 01:44	27°♋53'14	46°48'43		16485 Mar 30 00:39	0°♋	
	16482 Aug 22 04:00	0°♋			16485 Apr 24 16:50	0°♋	
desc. node	16482 Aug 22 19:31	0°♋39'28			16485 May 21 09:30	0°♋	
	16482 Sep 18 20:15	0°♋		asc. node	16485 May 30 06:01	9°♋29'05	
	16482 Oct 14 15:38	0°♋		evening max el	16485 Jun 11 08:28	21°♋50'24	46°18'12
	16482 Nov 08 17:05	0°♋			16485 Jun 19 21:59	0°♋	
	16482 Dec 03 09:43	0°♋		greatest brilliancy	16485 Jul 21 14:07	21°♋43'33	-4.8m
asc. node	16482 Dec 13 18:10	12°♋39'56		retrograde	16485 Jul 31 00:12	23°♋23'26	
	16482 Dec 27 21:05	0°♋		evening set	16485 Aug 16 12:36	18°♋08'45	
	16483 Jan 21 05:11	0°♋		inferior conj	16485 Aug 20 17:09	15°♋37'08	6°49'37
	16483 Feb 14 11:53	0°♋		minimum elong	16485 Aug 21 04:07	15°♋20'12	6°47'03
morning set	16483 Feb 19 06:50	5°♋55'08		min. Earth dist.	16485 Aug 21 11:37	15°♋08'38	0.27278 AU
	16483 Mar 10 18:42	0°♋		morning rise	16485 Aug 25 19:18	12°♋33'31	
				direct	16485 Sep 10 13:26	7°♋41'48	
superior conj	16483 Mar 28 13:40	21°♋57'10	0°16'54	desc. node	16485 Sep 19 05:27	9°♋06'59	
minimum elong	16483 Mar 28 17:26	22°♋08'48	0°16'32	greatest brilliancy	16485 Sep 20 21:48	9°♋41'36	-4.9m
max. Earth dist.	16483 Mar 29 02:59	22°♋38'16	1.73090 AU		16485 Oct 20 07:07	0°♋	
	16483 Apr 04 02:14	0°♋		morning max el	16485 Oct 30 20:44	10°♋05'34	46°48'49
desc. node	16483 Apr 04 12:40	0°♋32'12			16485 Nov 18 21:23	0°♋	
	16483 Apr 28 09:58	0°♋			16485 Dec 15 13:34	0°♋	
evening rise	16483 May 05 16:40	8°♋58'57		asc. node	16486 Jan 10 05:29	0°♋05'20	
	16483 May 22 17:14	0°♋			16486 Jan 10 03:41	0°♋	
	16483 Jun 16 00:04	0°♋			16486 Feb 04 04:12	0°♋	
	16483 Jul 10 07:38	0°♋			16486 Feb 28 20:54	0°♋	
asc. node	16483 Jul 26 04:52	19°♋31'31			16486 Mar 25 09:18	0°♋	
	16483 Aug 03 18:07	0°♋			16486 Apr 18 19:10	0°♋	
	16483 Aug 28 10:47	0°♋		morning set	16486 Apr 29 20:30	13°♋37'13	
	16483 Sep 22 15:52	0°♋		desc. node	16486 May 02 01:47	16°♋21'32	
	16483 Oct 19 00:24	0°♋			16486 May 13 02:56	0°♋	
evening max el	16483 Nov 06 17:18	19°♋39'01	46°32'08	max. Earth dist.	16486 Jun 04 23:58	28°♋19'40	1.72498 AU
desc. node	16483 Nov 15 00:38	27°♋38'16			16486 Jun 06 08:18	0°♋	
	16483 Nov 17 14:48	0°♋					
greatest brilliancy	16483 Dec 16 05:55	19°♋26'47	-4.8m	superior conj	16486 Jun 07 19:30	1°♋49'13	-1°15'01
retrograde	16483 Dec 26 16:09	21°♋25'50		minimum elong	16486 Jun 07 09:31	1°♋18'16	1°15'23

	16486 Jun 30 11:22	0°♎		greatest brilliancy	16488 Dec 02 17:49	23°♎30'32	-4.8m
evening rise	16486 Jul 16 22:48	20°♎32'11			16488 Dec 15 13:09	0°♎	
	16486 Jul 24 12:55	0°♎		morning max el	16489 Jan 11 15:17	22°♎41'51	46°08'40
	16486 Aug 17 14:18	0°♎			16489 Jan 18 23:27	0°♎	
asc. node	16486 Aug 22 18:04	6°♎25'26		asc. node	16489 Feb 06 16:02	19°♎49'19	
	16486 Sep 10 17:00	0°♎			16489 Feb 15 20:09	0°♎	
	16486 Oct 04 23:03	0°♎			16489 Mar 13 22:13	0°♎	
	16486 Oct 29 11:56	0°♎			16489 Apr 08 04:59	0°♎	
	16486 Nov 23 14:14	0°♎			16489 May 03 01:20	0°♎	
desc. node	16486 Dec 12 12:08	21°♎51'06			16489 May 27 14:52	0°♎	
	16486 Dec 19 18:38	0°♎		desc. node	16489 May 29 14:22	2°♎25'48	
evening max el	16487 Jan 16 23:09	29°♎33'47	46°09'49		16489 Jun 20 23:00	0°♎	
	16487 Jan 17 09:59	0°♎		morning set	16489 Jul 11 19:08	25°♎52'19	
greatest brilliancy	16487 Feb 25 04:47	28°♎21'11	-4.8m		16489 Jul 15 02:42	0°♎	
	16487 Mar 03 23:24	0°♎			16489 Aug 08 03:20	0°♎	
retrograde	16487 Mar 07 05:59	0°♎12'27		max. Earth dist.	16489 Aug 19 00:51	13°♎38'04	1.71656 AU
	16487 Mar 10 11:19	30°♎					
evening set	16487 Mar 22 13:05	25°♎40'04		superior conj	16489 Aug 20 09:31	15°♎20'20	-1°05'23
inferior conj	16487 Mar 28 14:28	22°♎01'28	-1°41'15	minimum elong	16489 Aug 20 21:10	15°♎56'48	1°05'12
minimum elong	16487 Mar 28 18:16	21°♎55'31	1°40'17		16489 Sep 01 02:27	0°♎	
min. Earth dist.	16487 Mar 28 17:32	21°♎56'39	0.28443 AU	asc. node	16489 Sep 19 07:36	22°♎48'49	
morning rise	16487 Apr 03 23:15	18°♎12'09			16489 Sep 25 01:19	0°♎	
asc. node	16487 Apr 04 10:14	17°♎57'14		evening rise	16489 Sep 29 08:20	5°♎22'28	
direct	16487 Apr 18 19:12	13°♎51'58			16489 Oct 19 01:03	0°♎	
greatest brilliancy	16487 Apr 29 12:28	15°♎58'12	-4.8m		16489 Nov 12 03:13	0°♎	
	16487 May 21 18:31	0°♎			16489 Dec 06 10:31	0°♎	
morning max el	16487 Jun 07 05:22	14°♎58'29	46°07'43		16489 Dec 31 02:48	0°♎	
	16487 Jun 21 20:24	0°♎		desc. node	16490 Jan 09 00:28	10°♎40'05	
	16487 Jul 18 18:26	0°♎			16490 Jan 25 08:53	0°♎	
desc. node	16487 Jul 25 11:10	7°♎46'25			16490 Feb 20 12:16	0°♎	
	16487 Aug 13 05:52	0°♎			16490 Mar 20 08:23	0°♎	
	16487 Sep 07 00:28	0°♎		evening max el	16490 Mar 28 22:43	8°♎34'58	46°01'27
	16487 Oct 01 10:28	0°♎			16490 Apr 23 02:54	0°♎	
	16487 Oct 25 16:11	0°♎		asc. node	16490 May 01 20:57	5°♎14'31	
asc. node	16487 Nov 15 07:55	25°♎39'26		greatest brilliancy	16490 May 07 05:06	7°♎31'46	-4.8m
	16487 Nov 18 19:42	0°♎		retrograde	16490 May 17 04:32	9°♎21'42	
morning set	16487 Dec 09 01:05	25°♎10'21		evening set	16490 Jun 02 16:29	4°♎04'09	
	16487 Dec 12 22:07	0°♎		inferior conj	16490 Jun 07 05:20	1°♎16'39	7°38'40
	16488 Jan 06 00:32	0°♎		minimum elong	16490 Jun 06 19:39	1°♎31'55	7°36'26
				min. Earth dist.	16490 Jun 07 04:13	1°♎18'24	0.28217 AU
superior conj	16488 Jan 15 15:01	11°♎56'19	1°26'08		16490 Jun 09 06:12	30°♎	
minimum elong	16488 Jan 15 18:14	12°♎06'17	1°26'38	morning rise	16490 Jun 10 22:45	28°♎57'57	
max. Earth dist.	16488 Jan 18 01:19	14°♎57'20	1.72591 AU	direct	16490 Jun 28 09:12	23°♎07'05	
	16488 Jan 30 04:28	0°♎		greatest brilliancy	16490 Jul 08 09:08	24°♎59'46	-4.8m
evening rise	16488 Feb 22 04:12	28°♎24'22			16490 Jul 18 10:06	0°♎	
	16488 Feb 23 11:15	0°♎		morning max el	16490 Aug 17 15:34	25°♎33'21	46°47'40
desc. node	16488 Mar 06 01:02	14°♎14'19		desc. node	16490 Aug 21 21:23	29°♎51'46	
	16488 Mar 18 21:17	0°♎			16490 Aug 22 00:35	0°♎	
	16488 Apr 12 10:09	0°♎			16490 Sep 18 11:33	0°♎	
	16488 May 07 01:36	0°♎			16490 Oct 14 04:54	0°♎	
	16488 May 31 20:57	0°♎			16490 Nov 08 05:17	0°♎	
	16488 Jun 26 00:18	0°♎			16490 Dec 02 21:14	0°♎	
asc. node	16488 Jun 26 17:55	0°♎51'58		asc. node	16490 Dec 12 20:03	12°♎11'06	
	16488 Jul 21 20:32	0°♎			16490 Dec 27 08:07	0°♎	
	16488 Aug 18 08:47	0°♎			16491 Jan 20 15:54	0°♎	
evening max el	16488 Aug 23 06:18	4°♎58'19	46°38'06		16491 Feb 13 22:25	0°♎	
	16488 Sep 21 15:08	0°♎		morning set	16491 Feb 16 23:29	3°♎45'47	
greatest brilliancy	16488 Oct 01 17:42	5°♎13'58	-4.9m		16491 Mar 10 05:10	0°♎	
retrograde	16488 Oct 12 12:28	7°♎23'55					
desc. node	16488 Oct 16 15:46	7°♎02'57		superior conj	16491 Mar 26 05:21	19°♎45'20	0°20'17
evening set	16488 Oct 27 05:56	3°♎07'54		minimum elong	16491 Mar 26 09:51	19°♎59'12	0°19'55
	16488 Nov 01 15:12	30°♎		max. Earth dist.	16491 Mar 26 20:18	20°♎31'24	1.73090 AU
inferior conj	16488 Nov 02 08:24	29°♎33'52	-4°11'26	desc. node	16491 Apr 03 14:31	0°♎05'37	
minimum elong	16488 Nov 01 23:27	29°♎47'28	4°08'19		16491 Apr 03 12:42	0°♎	
min. Earth dist.	16488 Nov 01 18:08	29°♎55'32	0.27197 AU		16491 Apr 27 20:31	0°♎	
morning rise	16488 Nov 07 17:26	26°♎24'27		evening rise	16491 May 03 07:53	6°♎45'09	
direct	16488 Nov 23 03:57	21°♎48'57			16491 May 22 03:55	0°♎	

	16491 Jun 15 10:57	0°♈			16494 Feb 03 15:39	0°♊		
	16491 Jul 09 18:50	0°♍			16494 Feb 28 07:51	0°♋		
asc. node	16491 Jul 25 06:37	19°♍01'44			16494 Mar 24 19:55	0°♌		
	16491 Aug 03 05:48	0°♊			16494 Apr 18 05:38	0°♍		
	16491 Aug 27 23:15	0°♌		morning set	16494 Apr 27 11:28	11°♌23'16		
	16491 Sep 22 05:47	0°♎		desc. node	16494 May 01 03:40	15°♌55'11		
	16491 Oct 18 17:30	0°♏			16494 May 12 13:19	0°♐		
evening max el	16491 Nov 04 07:18	17°♏20'04	46°32'36	max. Earth dist.	16494 Jun 02 17:24	26°♐12'35	1.72533 AU	
desc. node	16491 Nov 14 02:37	26°♏42'37						
	16491 Nov 17 19:08	0°♋		superior conj	16494 Jun 05 09:14	29°♐30'34	-1°13'02	
greatest brilliancy	16491 Dec 13 21:07	17°♋12'10	-4.8m	minimum elong	16494 Jun 04 22:54	28°♐58'32	1°13'22	
retrograde	16491 Dec 24 06:36	19°♋10'59			16494 Jun 05 18:43	0°♑		
evening set	16492 Jan 11 18:57	12°♋47'02			16494 Jun 29 21:51	0°♈		
inferior conj	16492 Jan 14 15:20	11°♋01'19	-8°53'11	evening rise	16494 Jul 14 11:20	18°♈08'47		
minimum elong	16492 Jan 14 18:40	10°♋56'07	8°52'31		16494 Jul 23 23:31	0°♍		
min. Earth dist.	16492 Jan 14 08:15	11°♋12'21	0.28438 AU		16494 Aug 17 01:04	0°♊		
morning rise	16492 Jan 17 18:31	9°♋05'35		asc. node	16494 Aug 21 19:54	5°♊57'29		
direct	16492 Feb 04 20:02	2°♋59'53			16494 Sep 10 04:00	0°♌		
greatest brilliancy	16492 Feb 14 21:08	4°♋50'05	-4.8m		16494 Oct 04 10:24	0°♎		
asc. node	16492 Mar 06 02:04	16°♋49'05			16494 Oct 28 23:52	0°♏		
	16492 Mar 21 06:01	0°♋			16494 Nov 23 03:14	0°♋		
morning max el	16492 Mar 24 20:56	3°♋28'17	45°44'23	desc. node	16494 Dec 11 13:57	21°♋15'23		
	16492 Apr 19 07:40	0°♌			16494 Dec 19 09:59	0°♋		
	16492 May 15 19:18	0°♍		evening max el	16495 Jan 14 14:42	27°♋22'32	46°10'31	
	16492 Jun 10 05:21	0°♐			16495 Jan 17 08:18	0°♌		
desc. node	16492 Jun 26 02:01	19°♐06'35		greatest brilliancy	16495 Feb 22 19:32	26°♌09'00	-4.8m	
	16492 Jul 05 00:58	0°♑		retrograde	16495 Mar 04 21:58	28°♌01'06		
	16492 Jul 29 11:14	0°♈		evening set	16495 Mar 20 06:18	23°♌26'06		
	16492 Aug 22 15:36	0°♍		inferior conj	16495 Mar 26 06:03	19°♌49'44	-2°02'07	
	16492 Sep 15 16:43	0°♊		minimum elong	16495 Mar 26 10:36	19°♌42'37	2°00'53	
morning set	16492 Sep 23 21:16	10°♊14'23		min. Earth dist.	16495 Mar 26 09:10	19°♌44'52	0.28456 AU	
	16492 Oct 09 16:21	0°♌		morning rise	16495 Apr 01 14:48	16°♌00'55		
asc. node	16492 Oct 16 20:56	8°♌59'58		asc. node	16495 Apr 03 12:18	15°♌01'28		
				direct	16495 Apr 16 11:16	11°♌40'16		
superior conj	16492 Nov 02 07:16	29°♌33'53	0°39'01	greatest brilliancy	16495 Apr 27 04:20	13°♌46'50	-4.8m	
minimum elong	16492 Nov 01 22:35	29°♌06'43	0°39'07		16495 May 22 01:05	0°♍		
	16492 Nov 02 15:37	0°♎		morning max el	16495 Jun 04 21:37	12°♍47'41	46°06'17	
max. Earth dist.	16492 Nov 03 06:52	0°♎47'43	1.71751 AU		16495 Jun 21 13:41	0°♐		
	16492 Nov 26 15:29	0°♏			16495 Jul 18 08:20	0°♑		
evening rise	16492 Dec 10 09:02	17°♏07'16		desc. node	16495 Jul 24 13:01	7°♑12'38		
	16492 Dec 20 17:33	0°♋			16495 Aug 12 18:19	0°♈		
	16493 Jan 13 23:51	0°♋			16495 Sep 06 12:10	0°♍		
desc. node	16493 Feb 05 13:26	27°♋37'25			16495 Sep 30 21:41	0°♊		
	16493 Feb 07 12:18	0°♌			16495 Oct 25 03:05	0°♌		
	16493 Mar 04 08:11	0°♍		asc. node	16495 Nov 14 09:46	25°♌11'52		
	16493 Mar 29 12:53	0°♐			16495 Nov 18 06:22	0°♎		
	16493 Apr 24 06:35	0°♑		morning set	16495 Dec 06 15:56	22°♎54'26		
	16493 May 21 02:29	0°♈			16495 Dec 12 08:36	0°♏		
asc. node	16493 May 29 07:55	8°♈44'50			16496 Jan 05 10:53	0°♋		
evening max el	16493 Jun 08 21:00	19°♈27'53	46°17'24					
	16493 Jun 20 01:37	0°♍		superior conj	16496 Jan 13 07:20	9°♋45'43	1°26'37	
greatest brilliancy	16493 Jul 19 03:44	19°♍22'12	-4.8m	minimum elong	16496 Jan 13 09:46	9°♋53'17	1°27'07	
retrograde	16493 Jul 28 13:13	21°♍01'59		max. Earth dist.	16496 Jan 15 20:04	12°♋54'22	1.72562 AU	
evening set	16493 Aug 14 05:15	15°♍41'29			16496 Jan 29 14:48	0°♋		
inferior conj	16493 Aug 18 06:24	13°♍14'56	7°04'51	evening rise	16496 Feb 19 20:14	26°♋13'50		
minimum elong	16493 Aug 18 17:14	12°♍58'14	7°02'25		16496 Feb 22 21:40	0°♌		
min. Earth dist.	16493 Aug 19 01:17	12°♍45'50	0.27315 AU	desc. node	16496 Mar 05 02:56	13°♌47'56		
morning rise	16493 Aug 23 04:53	10°♍16'38			16496 Mar 18 07:54	0°♍		
direct	16493 Sep 08 02:38	5°♍18'35			16496 Apr 11 21:04	0°♐		
desc. node	16493 Sep 18 07:24	7°♍15'21			16496 May 06 12:57	0°♑		
greatest brilliancy	16493 Sep 18 11:48	7°♍19'23	-4.9m		16496 May 31 08:59	0°♈		
	16493 Oct 20 10:09	0°♊		asc. node	16496 Jun 25 19:42	0°♍18'16		
morning max el	16493 Oct 28 11:05	7°♊46'06	46°49'55		16496 Jun 25 13:30	0°♍		
	16493 Nov 18 14:23	0°♌			16496 Jul 21 11:59	0°♊		
	16493 Dec 15 03:22	0°♎			16496 Aug 18 05:55	0°♌		
asc. node	16494 Jan 09 07:17	29°♎34'09		evening max el	16496 Aug 20 21:14	2°♌39'35	46°37'40	
	16494 Jan 09 15:58	0°♏			16496 Sep 23 04:57	0°♎		

greatest brilliancy	16496 Sep 29 07:31	2° \mathcal{A} 51'11	-4.9m		16499 Mar 09 15:46	0° Υ	
retrograde	16496 Oct 10 02:10	5° \mathcal{A} 00'30					
desc. node	16496 Oct 15 17:48	4° \mathcal{A} 21'27		superior conj	16499 Mar 23 21:24	17° Υ 34'12	0°23'36
evening set	16496 Oct 24 17:22	0° \mathcal{A} 47'27		minimum elong	16499 Mar 24 02:35	17° Υ 50'12	0°23'13
	16496 Oct 26 03:45	30° $\mathcal{R}\mathcal{L}$		max. Earth dist.	16499 Mar 24 13:02	18° Υ 22'26	1.73086 AU
inferior conj	16496 Oct 30 21:16	27° \mathcal{M} 11'14	-3°49'57	desc. node	16499 Apr 02 16:23	29° Υ 38'45	
minimum elong	16496 Oct 30 12:57	27° \mathcal{M} 23'53	3°47'00		16499 Apr 02 23:17	0° \mathcal{B}	
min. Earth dist.	16496 Oct 30 07:48	27° \mathcal{M} 31'43	0.27157 AU		16499 Apr 27 07:10	0° \mathcal{I}	
morning rise	16496 Nov 05 09:03	23° \mathcal{M} 58'06		evening rise	16499 Apr 30 23:29	4° \mathcal{I} 32'16	
direct	16496 Nov 20 17:14	19° \mathcal{M} 26'49			16499 May 21 14:44	0° \mathcal{E}	
greatest brilliancy	16496 Nov 30 06:29	21° \mathcal{M} 08'08	-4.8m		16499 Jun 14 22:02	0° \mathcal{Q}	
	16496 Dec 16 12:53	0° \mathcal{A}			16499 Jul 09 06:19	0° \mathcal{N}	
morning max el	16497 Jan 09 04:52	20° \mathcal{A} 22'59	46°10'12	asc. node	16499 Jul 24 08:27	18° \mathcal{N} 31'18	
	16497 Jan 18 19:15	0° \mathcal{B}			16499 Aug 02 17:50	0° \mathcal{L}	
asc. node	16497 Feb 05 17:56	19° \mathcal{B} 10'42			16499 Aug 27 12:09	0° \mathcal{M}	
	16497 Feb 15 10:53	0° \approx			16499 Sep 21 20:13	0° \mathcal{A}	
	16497 Mar 13 10:56	0° \mathcal{H}			16499 Oct 18 11:24	0° \mathcal{B}	
	16497 Apr 07 16:42	0° Υ		evening max el	16499 Nov 01 20:25	14° \mathcal{B} 57'46	46°33'11
	16497 May 02 12:31	0° \mathcal{B}		desc. node	16499 Nov 13 04:25	25° \mathcal{B} 44'13	
	16497 May 27 01:46	0° \mathcal{I}			16499 Nov 18 02:04	0° \approx	
desc. node	16497 May 28 16:08	1° \mathcal{I} 57'47		greatest brilliancy	16499 Dec 11 11:54	14° \approx 55'46	-4.8m
	16497 Jun 20 09:44	0° \mathcal{E}		retrograde	16499 Dec 21 21:05	16° \approx 54'58	
morning set	16497 Jul 09 07:35	23° \mathcal{E} 28'30		evening set	16500 Jan 09 10:29	10° \approx 30'09	
	16497 Jul 14 13:21	0° \mathcal{Q}		inferior conj	16500 Jan 12 06:08	8° \approx 45'44	-8°56'22
	16497 Aug 07 13:58	0° \mathcal{N}		minimum elong	16500 Jan 12 08:37	8° \approx 41'52	8°55'45
max. Earth dist.	16497 Aug 16 09:54	11° \mathcal{N} 02'52	1.71671 AU	min. Earth dist.	16500 Jan 11 22:33	8° \approx 57'31	0.28412 AU
				morning rise	16500 Jan 15 06:51	6° \approx 53'48	
superior conj	16497 Aug 17 21:39	12° \mathcal{N} 54'46	-1°07'55	direct	16500 Feb 02 10:02	0° \approx 44'38	
minimum elong	16497 Aug 18 09:10	13° \mathcal{N} 30'48	1°07'46	greatest brilliancy	16500 Feb 12 11:30	2° \approx 34'49	-4.8m
	16497 Aug 31 13:06	0° \mathcal{L}		asc. node	16500 Mar 06 04:03	15° \approx 43'42	
asc. node	16497 Sep 18 09:29	22° \mathcal{L} 21'11			16500 Mar 22 05:29	0° \mathcal{H}	
	16497 Sep 24 12:03	0° \mathcal{M}		morning max el	16500 Mar 23 10:53	1° \mathcal{H} 11'05	45°44'40
evening rise	16497 Sep 26 21:02	2° \mathcal{M} 58'22			16500 Apr 19 23:36	0° Υ	
	16497 Oct 18 11:53	0° \mathcal{A}			16500 May 16 08:42	0° \mathcal{B}	
	16497 Nov 11 14:14	0° \mathcal{B}			16500 Jun 10 17:33	0° \mathcal{I}	
	16497 Dec 05 21:49	0° \approx		desc. node	16500 Jun 26 03:52	18° \mathcal{I} 36'27	
	16497 Dec 30 14:37	0° \mathcal{H}			16500 Jul 05 12:33	0° \mathcal{E}	
desc. node	16498 Jan 08 02:16	10° \mathcal{H} 09'28			16500 Jul 29 22:30	0° \mathcal{Q}	
	16498 Jan 24 21:40	0° Υ			16500 Aug 23 02:42	0° \mathcal{N}	
	16498 Feb 20 02:59	0° \mathcal{B}			16500 Sep 16 03:42	0° \mathcal{L}	
	16498 Mar 20 04:00	0° \mathcal{I}		morning set	16500 Sep 22 09:56	7° \mathcal{L} 49'37	
evening max el	16498 Mar 26 13:24	6° \mathcal{I} 20'16	46°01'13		16500 Oct 10 03:15	0° \mathcal{M}	
	16498 Apr 24 04:16	0° \mathcal{E}		asc. node	16500 Oct 16 22:45	8° \mathcal{M} 31'35	
asc. node	16498 Apr 30 22:46	3° \mathcal{E} 41'38					
greatest brilliancy	16498 May 04 19:51	5° \mathcal{E} 16'44	-4.8m	superior conj	16500 Oct 31 20:44	27° \mathcal{M} 11'58	0°35'39
retrograde	16498 May 14 18:39	7° \mathcal{E} 06'18		minimum elong	16500 Oct 31 12:36	26° \mathcal{M} 46'32	0°35'46
evening set	16498 May 31 03:49	1° \mathcal{E} 54'09		max. Earth dist.	16500 Nov 01 16:19	28° \mathcal{M} 13'14	1.71734 AU
	16498 Jun 03 06:56	30° $\mathcal{R}\mathcal{I}$			16500 Nov 03 02:27	0° \mathcal{A}	
inferior conj	16498 Jun 04 20:26	29° \mathcal{I} 01'02	7°26'34		16500 Nov 27 02:19	0° \mathcal{B}	
minimum elong	16498 Jun 04 10:26	29° \mathcal{I} 16'48	7°24'11	evening rise	16500 Dec 08 23:57	14° \mathcal{B} 50'29	
min. Earth dist.	16498 Jun 04 19:05	29° \mathcal{I} 03'10	0.28231 AU		16500 Dec 21 04:27	0° \approx	
morning rise	16498 Jun 08 16:58	26° \mathcal{I} 37'25			16501 Jan 14 10:56	0° \mathcal{H}	
direct	16498 Jun 26 00:10	20° \mathcal{I} 51'21		desc. node	16501 Feb 05 15:22	27° \mathcal{H} 08'49	
greatest brilliancy	16498 Jul 06 00:53	22° \mathcal{I} 44'15	-4.8m		16501 Feb 07 23:41	0° Υ	
	16498 Jul 19 12:35	0° \mathcal{E}			16501 Mar 04 20:03	0° \mathcal{B}	
morning max el	16498 Aug 15 04:48	23° \mathcal{E} 11'25	46°46'35		16501 Mar 30 01:36	0° \mathcal{I}	
desc. node	16498 Aug 20 23:21	29° \mathcal{E} 04'31			16501 Apr 24 20:52	0° \mathcal{E}	
	16498 Aug 21 20:42	0° \mathcal{Q}			16501 May 21 20:13	0° \mathcal{Q}	
	16498 Sep 18 02:48	0° \mathcal{N}		asc. node	16501 May 29 09:45	7° \mathcal{Q} 58'54	
	16498 Oct 13 18:12	0° \mathcal{L}		evening max el	16501 Jun 07 10:17	17° \mathcal{Q} 06'39	46°16'43
	16498 Nov 07 17:33	0° \mathcal{M}			16501 Jun 21 07:33	0° \mathcal{N}	
	16498 Dec 02 08:50	0° \mathcal{A}		greatest brilliancy	16501 Jul 17 16:39	16° \mathcal{N} 59'32	-4.8m
asc. node	16498 Dec 11 21:46	11° \mathcal{A} 41'18		retrograde	16501 Jul 27 02:50	18° \mathcal{N} 39'53	
	16498 Dec 26 19:17	0° \mathcal{B}		evening set	16501 Aug 12 22:00	13° \mathcal{N} 13'28	
	16499 Jan 20 02:47	0° \approx		inferior conj	16501 Aug 16 19:45	10° \mathcal{N} 51'49	7°19'12
	16499 Feb 13 09:07	0° \mathcal{H}		minimum elong	16501 Aug 17 06:22	10° \mathcal{N} 35'27	7°16'53
morning set	16499 Feb 14 16:14	1° \mathcal{H} 36'12		min. Earth dist.	16501 Aug 17 14:32	10° \mathcal{N} 22'53	0.27360 AU

morning rise	16501 Aug 21 14:27	7° \cap 59'04		16504 Mar 18 18:56	0° B	
direct	16501 Sep 06 16:31	2° \cap 54'32		16504 Apr 12 08:24	0° II	
greatest brilliancy	16501 Sep 17 01:21	4° \cap 55'35	-4.9m	16504 May 07 00:44	0° G	
desc. node	16501 Sep 18 09:23	5° \cap 26'55		16504 May 31 21:28	0° Ω	
	16501 Oct 21 12:20	0° $\underline{\Omega}$		asc. node	16504 Jun 25 21:36	29° Ω 43'40
morning max el	16501 Oct 27 02:12	5° $\underline{\Omega}$ 26'56	46°50'42		16504 Jun 26 03:10	0° \cap
	16501 Nov 19 07:39	0° ML			16504 Jul 22 04:00	0° $\underline{\Omega}$
	16501 Dec 15 17:38	0° X			16504 Aug 19 04:05	0° ML
asc. node	16502 Jan 09 09:15	29° X 01'55		evening max el	16504 Aug 19 11:40	0° ML 18'58 46°37'18
	16502 Jan 10 04:45	0° Z			16504 Sep 26 16:46	0° X
	16502 Feb 04 03:34	0° \approx		greatest brilliancy	16504 Sep 27 21:59	0° X 29'05 -4.9m
	16502 Feb 28 19:14	0° X		retrograde	16504 Oct 08 15:30	2° X 37'03
	16502 Mar 25 07:00	0° Y		desc. node	16504 Oct 15 19:32	1° X 34'31
	16502 Apr 18 16:32	0° B			16504 Oct 20 01:35	30° RML
morning set	16502 Apr 26 02:35	9° B 08'21		evening set	16504 Oct 23 05:15	28° ML 26'44
desc. node	16502 May 01 05:24	15° B 27'01		inferior conj	16504 Oct 29 10:21	24° ML 48'40 -3°28'06
	16502 May 13 00:09	0° II		minimum elong	16504 Oct 29 02:42	25° ML 00'20 3°25'19
max. Earth dist.	16502 Jun 01 10:55	24° II 04'29	1.72561 AU	min. Earth dist.	16504 Oct 28 21:54	25° ML 07'38 0.27121 AU
				morning rise	16504 Nov 04 00:39	21° ML 31'52
superior conj	16502 Jun 03 23:13	27° II 11'28	-1°10'56	direct	16504 Nov 19 06:23	17° ML 04'45
minimum elong	16502 Jun 03 12:36	26° II 38'32	1°11'13	greatest brilliancy	16504 Nov 28 19:45	18° ML 46'02 -4.8m
	16502 Jun 06 05:33	0° G			16504 Dec 18 06:35	0° X
	16502 Jun 30 08:43	0° Ω		morning max el	16505 Jan 07 17:39	18° X 01'15 46°11'28
evening rise	16502 Jul 13 00:16	15° Ω 45'31			16505 Jan 19 14:45	0° Z
	16502 Jul 24 10:29	0° \cap		asc. node	16505 Feb 05 19:53	18° Z 31'37
	16502 Aug 17 12:12	0° $\underline{\Omega}$			16505 Feb 16 01:47	0° \approx
asc. node	16502 Aug 21 21:49	5° $\underline{\Omega}$ 28'39			16505 Mar 13 23:54	0° X
	16502 Sep 10 15:25	0° ML			16505 Apr 08 04:41	0° Y
	16502 Oct 04 22:15	0° X			16505 May 02 23:58	0° B
	16502 Oct 29 12:23	0° Z			16505 May 27 12:53	0° II
	16502 Nov 23 16:56	0° \approx		desc. node	16505 May 28 17:54	1° II 29'07
desc. node	16502 Dec 11 15:48	20° \approx 37'40			16505 Jun 20 20:41	0° G
	16502 Dec 20 02:15	0° X		morning set	16505 Jul 07 19:51	21° G 03'34
evening max el	16503 Jan 13 06:34	25° X 10'16	46°11'17		16505 Jul 15 00:13	0° Ω
	16503 Jan 18 08:26	0° Y			16505 Aug 08 00:48	0° \cap
greatest brilliancy	16503 Feb 21 10:23	23° Y 55'07	-4.8m	max. Earth dist.	16505 Aug 14 16:22	8° \cap 19'05 1.71684 AU
retrograde	16503 Mar 03 13:44	25° Y 47'32				
evening set	16503 Mar 18 23:32	21° Y 10'03		superior conj	16505 Aug 16 09:58	10° \cap 29'12 -1°10'18
inferior conj	16503 Mar 24 21:27	17° Y 35'58	-2°22'55	minimum elong	16505 Aug 16 21:15	11° \cap 04'31 1°10'12
minimum elong	16503 Mar 25 02:43	17° Y 27'42	2°21'27		16505 Aug 31 23:56	0° $\underline{\Omega}$
min. Earth dist.	16503 Mar 25 00:28	17° Y 31'14	0.28465 AU	asc. node	16505 Sep 18 11:13	21° $\underline{\Omega}$ 52'43
morning rise	16503 Mar 31 05:55	13° Y 47'46			16505 Sep 24 22:54	0° ML
asc. node	16503 Apr 03 14:10	12° Y 07'19		evening rise	16505 Sep 25 09:54	0° ML 34'25
direct	16503 Apr 15 03:21	9° Y 26'45			16505 Oct 18 22:48	0° X
greatest brilliancy	16503 Apr 25 19:30	11° Y 32'49	-4.8m		16505 Nov 12 01:18	0° Z
	16503 May 23 06:12	0° B			16505 Dec 06 09:13	0° \approx
morning max el	16503 Jun 03 13:25	10° B 34'25	46°04'57		16505 Dec 31 02:36	0° X
	16503 Jun 22 07:04	0° II		desc. node	16506 Jan 08 04:10	9° X 38'39
	16503 Jul 18 22:29	0° G			16506 Jan 25 10:44	0° Y
desc. node	16503 Jul 24 14:58	6° G 38'09			16506 Feb 20 18:09	0° B
	16503 Aug 13 07:02	0° Ω			16506 Mar 21 00:35	0° II
	16503 Sep 07 00:06	0° \cap		evening max el	16506 Mar 25 03:16	4° II 02'47 46°01'03
	16503 Oct 01 09:10	0° $\underline{\Omega}$			16506 Apr 26 17:02	0° G
	16503 Oct 25 14:18	0° ML		asc. node	16506 May 01 00:38	2° G 04'29
asc. node	16503 Nov 14 11:30	24° ML 42'54		greatest brilliancy	16506 May 03 10:31	3° G 00'40 -4.8m
	16503 Nov 18 17:24	0° X		retrograde	16506 May 13 08:50	4° G 50'13
morning set	16503 Dec 05 06:29	20° X 36'18			16506 May 29 03:15	30° RML
	16503 Dec 12 19:29	0° Z		evening set	16506 May 29 15:03	29° II 43'02
	16504 Jan 05 21:41	0° \approx		inferior conj	16506 Jun 03 11:25	26° II 44'39 7°13'39
				minimum elong	16506 Jun 03 01:10	27° II 00'48 7°11'07
superior conj	16504 Jan 11 23:09	7° \approx 32'11	1°26'57	min. Earth dist.	16506 Jun 03 09:56	26° II 46'58 0.28243 AU
minimum elong	16504 Jan 12 00:47	7° \approx 37'14	1°27'29	morning rise	16506 Jun 07 11:07	24° II 16'11
max. Earth dist.	16504 Jan 14 13:57	10° \approx 47'16	1.72531 AU	direct	16506 Jun 24 14:38	18° II 34'43
	16504 Jan 30 01:35	0° X		greatest brilliancy	16506 Jul 04 16:49	20° II 28'29 -4.8m
evening rise	16504 Feb 18 11:40	24° X 00'01			16506 Jul 21 08:08	0° G
	16504 Feb 23 08:31	0° Y		morning max el	16506 Aug 13 18:14	20° G 49'43 46°45'36
desc. node	16504 Mar 05 04:44	13° Y 19'54		desc. node	16506 Aug 21 01:16	28° G 17'36

	16506 Aug 22 16:17	0°♈			16509 Mar 29 14:06	0°♊	
	16506 Sep 18 17:54	0°♎			16509 Apr 24 11:04	0°♎	
	16506 Oct 14 07:25	0°♊			16509 May 21 14:10	0°♈	
	16506 Nov 08 05:43	0°♎		asc. node	16509 May 28 11:43	7°♈13'04	
	16506 Dec 02 20:20	0°♊		evening max el	16509 Jun 05 00:31	14°♈48'19	46°15'54
asc. node	16506 Dec 11 23:44	11°♊12'36			16509 Jun 21 15:42	0°♎	
	16506 Dec 27 06:21	0°♊		greatest brilliancy	16509 Jul 15 05:17	14°♎37'01	-4.8m
	16507 Jan 20 13:34	0°♊		retrograde	16509 Jul 24 16:29	16°♎17'52	
morning set	16507 Feb 13 08:59	29°♊26'42		evening set	16509 Aug 10 14:38	10°♎45'51	
	16507 Feb 13 19:45	0°♋		inferior conj	16509 Aug 14 08:57	8°♎29'00	7°32'43
	16507 Mar 10 02:22	0°♎		minimum elong	16509 Aug 14 19:18	8°♎13'03	7°30'34
				min. Earth dist.	16509 Aug 15 03:20	8°♎00'40	0.27402 AU
superior conj	16507 Mar 22 13:17	15°♎22'32	0°26'55	morning rise	16509 Aug 18 23:44	5°♎41'55	
minimum elong	16507 Mar 22 19:08	15°♎40'34	0°26'31	direct	16509 Sep 04 06:36	0°♎31'05	
max. Earth dist.	16507 Mar 23 05:42	16°♎13'10	1.73089 AU	greatest brilliancy	16509 Sep 14 14:06	2°♎31'27	-4.9m
desc. node	16507 Apr 02 18:06	29°♎11'20		desc. node	16509 Sep 17 11:12	3°♎42'54	
	16507 Apr 03 09:53	0°♋			16509 Oct 21 12:48	0°♊	
	16507 Apr 27 17:51	0°♊		morning max el	16509 Oct 24 17:11	3°♊08'25	46°51'27
evening rise	16507 Apr 29 14:49	2°♊18'35			16509 Nov 19 00:12	0°♎	
	16507 May 22 01:35	0°♎			16509 Dec 15 07:22	0°♊	
	16507 Jun 15 09:09	0°♈		asc. node	16510 Jan 08 11:06	28°♊30'34	
	16507 Jul 09 17:48	0°♎			16510 Jan 09 17:03	0°♊	
asc. node	16507 Jul 24 10:23	18°♎01'09			16510 Feb 03 15:02	0°♊	
	16507 Aug 03 05:52	0°♊			16510 Feb 28 06:11	0°♋	
	16507 Aug 28 01:03	0°♎			16510 Mar 24 17:37	0°♎	
	16507 Sep 22 10:43	0°♊			16510 Apr 18 03:00	0°♋	
	16507 Oct 19 05:33	0°♊		morning set	16510 Apr 23 18:04	6°♋55'58	
evening max el	16507 Oct 31 10:00	12°♊37'14	46°33'58	desc. node	16510 Apr 30 07:15	15°♋00'29	
desc. node	16507 Nov 13 06:22	24°♊45'32			16510 May 12 10:36	0°♊	
	16507 Nov 19 11:13	0°♊		max. Earth dist.	16510 May 30 03:24	21°♊54'20	1.72596 AU
greatest brilliancy	16507 Dec 10 02:12	12°♊39'52	-4.8m				
retrograde	16507 Dec 20 12:16	14°♊40'24		superior conj	16510 Jun 01 13:17	24°♊53'44	-1°08'42
evening set	16508 Jan 08 01:43	8°♊15'12		minimum elong	16510 Jun 01 02:28	24°♊20'14	1°08'59
inferior conj	16508 Jan 10 21:06	6°♊31'26	-8°58'33		16510 Jun 05 16:02	0°♎	
minimum elong	16508 Jan 10 22:44	6°♊28'54	8°57'59		16510 Jun 29 19:17	0°♈	
min. Earth dist.	16508 Jan 10 12:39	6°♊44'33	0.28386 AU	evening rise	16510 Jul 10 12:58	13°♈22'26	
morning rise	16508 Jan 13 19:50	4°♊42'44			16510 Jul 23 21:10	0°♎	
	16508 Jan 23 08:54	30°♋30'41			16510 Aug 16 23:04	0°♊	
direct	16508 Feb 01 00:20	28°♊30'41		asc. node	16510 Aug 20 23:31	5°♊00'02	
	16508 Feb 10 00:48	0°♊			16510 Sep 10 02:33	0°♎	
greatest brilliancy	16508 Feb 11 01:43	0°♊20'48	-4.8m		16510 Oct 04 09:47	0°♊	
asc. node	16508 Mar 05 05:56	14°♊40'46			16510 Oct 29 00:34	0°♊	
morning max el	16508 Mar 21 01:44	28°♊56'56	45°44'45		16510 Nov 23 06:20	0°♊	
	16508 Mar 22 03:37	0°♋		desc. node	16510 Dec 10 17:46	20°♊01'09	
	16508 Apr 19 15:04	0°♎			16510 Dec 19 18:21	0°♋	
	16508 May 15 21:50	0°♋		evening max el	16511 Jan 10 22:38	22°♋59'47	46°12'05
	16508 Jun 10 05:35	0°♊			16511 Jan 18 09:08	0°♎	
desc. node	16508 Jun 25 05:50	18°♊07'04		greatest brilliancy	16511 Feb 19 02:04	21°♎44'07	-4.8m
	16508 Jul 04 23:59	0°♎		retrograde	16511 Mar 01 05:22	23°♎36'03	
	16508 Jul 29 09:36	0°♈		evening set	16511 Mar 16 17:09	18°♎56'13	
	16508 Aug 22 13:36	0°♎		inferior conj	16511 Mar 22 13:06	15°♎24'32	-2°43'16
	16508 Sep 15 14:27	0°♊		minimum elong	16511 Mar 22 19:04	15°♎15'11	2°41'36
morning set	16508 Sep 19 22:31	5°♊25'17		min. Earth dist.	16511 Mar 22 16:09	15°♎19'44	0.28471 AU
	16508 Oct 09 13:55	0°♎		morning rise	16511 Mar 28 21:02	11°♎37'01	
asc. node	16508 Oct 16 00:29	8°♎03'42		asc. node	16511 Apr 02 16:00	9°♎19'42	
				direct	16511 Apr 12 19:33	7°♎15'44	
superior conj	16508 Oct 29 10:09	24°♎50'32	0°32'13	greatest brilliancy	16511 Apr 23 10:42	9°♎20'55	-4.8m
minimum elong	16508 Oct 29 02:39	24°♎27'03	0°32'20		16511 May 23 08:44	0°♋	
max. Earth dist.	16508 Oct 30 03:13	25°♎43'55	1.71716 AU	morning max el	16511 Jun 01 04:23	8°♋20'49	46°03'29
	16508 Nov 02 13:03	0°♊			16511 Jun 21 23:32	0°♊	
	16508 Nov 26 12:55	0°♊			16511 Jul 18 12:04	0°♎	
evening rise	16508 Dec 06 15:04	12°♊35'07		desc. node	16511 Jul 23 16:49	6°♎04'47	
	16508 Dec 20 15:05	0°♊			16511 Aug 12 19:19	0°♈	
	16509 Jan 13 21:41	0°♋			16511 Sep 06 11:42	0°♎	
desc. node	16509 Feb 04 17:11	26°♋40'57			16511 Sep 30 20:21	0°♊	
	16509 Feb 07 10:43	0°♎			16511 Oct 25 01:10	0°♎	
	16509 Mar 04 07:37	0°♋		asc. node	16511 Nov 13 13:25	24°♎15'39	

	16511 Nov 18 04:03	0°♊	retrograde	16514 May 10 23:40	2°♊35'58	
morning set	16511 Dec 02 20:50	18°♊18'43		16514 May 22 08:50	30°♊II	
	16511 Dec 12 05:58	0°♊	evening set	16514 May 27 02:37	27°♊33'17	
	16512 Jan 05 08:05	0°♊	inferior conj	16514 Jun 01 02:36	24°♊29'58	7°00'06
			minimum elong	16514 May 31 16:09	24°♊46'25	6°57'27
superior conj	16512 Jan 09 15:02	5°♊20'05 1°27'09	min. Earth dist.	16514 Jun 01 00:53	24°♊32'41	0.28254 AU
minimum elong	16512 Jan 09 15:51	5°♊22'36 1°27'43	morning rise	16514 Jun 05 05:31	21°♊56'50	
max. Earth dist.	16512 Jan 12 06:38	8°♊37'42 1.72498 AU	direct	16514 Jun 22 05:19	16°♊19'45	
	16512 Jan 29 11:58	0°♊	greatest brilliancy	16514 Jul 02 08:51	18°♊14'33	-4.8m
evening rise	16512 Feb 16 03:17	21°♊47'59		16514 Jul 21 21:57	0°♊	
desc. node	16512 Feb 22 18:59	0°♊	morning max el	16514 Aug 11 08:41	18°♊31'52	46°44'35
	16512 Mar 04 06:29	12°♊53'01	desc. node	16514 Aug 20 03:07	27°♊32'22	
	16512 Mar 18 05:34	0°♊		16514 Aug 22 10:54	0°♊	
	16512 Apr 11 19:18	0°♊		16514 Sep 18 08:28	0°♊	
asc. node	16512 May 06 12:04	0°♊		16514 Oct 13 20:18	0°♊	
	16512 May 31 09:32	0°♊		16514 Nov 07 17:41	0°♊	
	16512 Jun 24 23:31	29°♊10'06		16514 Dec 02 07:42	0°♊	
	16512 Jun 25 16:32	0°♊	asc. node	16514 Dec 11 01:36	10°♊43'52	
evening max el	16512 Jul 21 19:57	0°♊		16514 Dec 26 17:18	0°♊	
	16512 Aug 17 01:03	27°♊56'22 46°36'39		16515 Jan 20 00:15	0°♊	
greatest brilliancy	16512 Aug 19 02:56	0°♊	morning set	16515 Feb 11 01:30	27°♊16'47	
	16512 Sep 25 12:53	28°♊07'27 -4.9m		16515 Feb 13 06:16	0°♊	
retrograde	16512 Oct 02 18:48	0°♊		16515 Mar 09 12:48	0°♊	
	16512 Oct 06 04:15	0°♊13'30				
desc. node	16512 Oct 09 12:31	30°♊II	superior conj	16515 Mar 20 05:06	13°♊11'05 0°30'10	
	16512 Oct 14 21:31	28°♊41'33	minimum elong	16515 Mar 20 11:35	13°♊31'04 0°29'47	
evening set	16512 Oct 20 17:05	26°♊05'29	max. Earth dist.	16515 Mar 21 00:25	14°♊10'41 1.73087 AU	
inferior conj	16512 Oct 26 23:13	22°♊26'08 -3°05'41	desc. node	16515 Apr 01 19:58	28°♊44'53	
minimum elong	16512 Oct 26 16:17	22°♊36'42 3°03'06		16515 Apr 02 20:20	0°♊	
min. Earth dist.	16512 Oct 26 12:16	22°♊42'51 0.27086 AU	evening rise	16515 Apr 27 06:22	0°♊06'04	
morning rise	16512 Nov 01 15:54	19°♊05'47		16515 Apr 27 04:24	0°♊	
direct	16512 Nov 16 18:42	14°♊42'28		16515 May 21 12:17	0°♊	
greatest brilliancy	16512 Nov 26 09:27	16°♊24'30 -4.8m		16515 Jun 14 20:06	0°♊	
	16512 Dec 18 19:31	0°♊		16515 Jul 09 05:07	0°♊	
morning max el	16513 Jan 05 05:42	15°♊38'22 46°12'59	asc. node	16515 Jul 23 12:08	17°♊31'05	
	16513 Jan 19 09:20	0°♊		16515 Aug 02 17:43	0°♊	
asc. node	16513 Feb 04 21:45	17°♊53'40		16515 Aug 27 13:49	0°♊	
	16513 Feb 15 16:06	0°♊		16515 Sep 22 01:13	0°♊	
	16513 Mar 13 12:24	0°♊		16515 Oct 19 00:06	0°♊	
	16513 Apr 07 16:15	0°♊	evening max el	16515 Oct 29 00:17	10°♊18'35 46°34'28	
desc. node	16513 May 02 10:59	0°♊	desc. node	16515 Nov 12 08:19	23°♊45'17	
	16513 May 26 23:36	0°♊		16515 Nov 19 23:47	0°♊	
	16513 May 27 19:52	1°♊02'16	greatest brilliancy	16515 Dec 07 15:49	10°♊22'27 -4.8m	
	16513 Jun 20 07:13	0°♊	retrograde	16515 Dec 18 03:41	12°♊24'42	
morning set	16513 Jul 05 08:36	18°♊41'16	evening set	16516 Jan 05 16:11	5°♊59'45	
	16513 Jul 14 10:42	0°♊	inferior conj	16516 Jan 08 11:47	4°♊15'53 -8°59'53	
max. Earth dist.	16513 Aug 07 11:18	0°♊	minimum elong	16516 Jan 08 12:30	4°♊14'45 8°59'20	
	16513 Aug 12 00:08	5°♊40'24 1.71708 AU	min. Earth dist.	16516 Jan 08 02:11	4°♊30'44 0.28360 AU	
superior conj	16513 Aug 13 22:31	8°♊05'29 -1°12'32	morning rise	16516 Jan 11 08:56	2°♊29'51	
	16513 Aug 14 09:30	8°♊39'51 1°12'30		16516 Jan 15 19:13	30°♊♊	
minimum elong	16513 Aug 31 10:29	0°♊	direct	16516 Jan 29 14:46	26°♊15'33	
asc. node	16513 Sep 17 13:04	21°♊25'21	greatest brilliancy	16516 Feb 08 15:08	28°♊05'05 -4.8m	
	16513 Sep 22 22:34	28°♊10'37		16516 Feb 13 06:04	0°♊	
evening rise	16513 Sep 24 09:32	0°♊	asc. node	16516 Mar 04 07:49	13°♊38'54	
	16513 Oct 18 09:32	0°♊	morning max el	16516 Mar 18 17:09	26°♊43'54 45°45'01	
	16513 Nov 11 12:12	0°♊		16516 Mar 22 00:59	0°♊	
	16513 Dec 05 20:27	0°♊		16516 Apr 19 06:19	0°♊	
desc. node	16513 Dec 30 14:26	0°♊		16516 May 15 10:51	0°♊	
	16514 Jan 07 06:00	9°♊08'11	desc. node	16516 Jun 09 17:31	0°♊	
	16514 Jan 24 23:38	0°♊		16516 Jun 24 07:35	17°♊37'12	
	16514 Feb 20 09:15	0°♊		16516 Jul 04 11:22	0°♊	
evening max el	16514 Mar 20 21:32	0°♊		16516 Jul 28 20:40	0°♊	
	16514 Mar 22 17:15	1°♊46'43 46°01'04		16516 Aug 22 00:27	0°♊	
asc. node	16514 Apr 29 01:13	0°♊	morning set	16516 Sep 15 01:09	0°♊	
	16514 Apr 30 02:42	0°♊25'17		16516 Sep 17 11:33	3°♊02'32	
greatest brilliancy	16514 May 01 01:04	0°♊45'50 -4.8m	asc. node	16516 Oct 09 00:31	0°♊	
				16516 Oct 15 02:24	7°♊36'31	

superior conj	16516 Oct 26 23:46	22° \mathbb{M} 29'45	0°28'44	asc. node	16519 Apr 01 18:03	6° Υ 34'24	
minimum elong	16516 Oct 26 16:57	22° \mathbb{M} 08'24	0°28'51	direct	16519 Apr 10 11:10	5° Υ 03'07	
max. Earth dist.	16516 Oct 27 17:19	23° \mathbb{M} 24'41	1.71703 AU	greatest brilliancy	16519 Apr 21 02:17	7° Υ 07'48	-4.8m
	16516 Nov 01 23:38	0° \mathcal{Z}			16519 May 23 10:25	0° \mathcal{B}	
	16516 Nov 25 23:32	0° \mathcal{Z}		morning max el	16519 May 29 18:37	6° \mathcal{B} 03'54	46°02'10
evening rise	16516 Dec 04 06:15	10° \mathcal{Z} 19'47			16519 Jun 21 16:10	0° \mathbb{I}	
	16516 Dec 20 01:48	0° \approx			16519 Jul 18 01:54	0° \mathcal{G}	
	16517 Jan 13 08:35	0° \mathcal{H}		desc. node	16519 Jul 22 18:42	5° \mathcal{G} 30'35	
desc. node	16517 Feb 03 18:55	26° \mathcal{H} 12'14			16519 Aug 12 07:53	0° \mathcal{Q}	
	16517 Feb 06 21:56	0° Υ			16519 Sep 05 23:35	0° \mathcal{M}	
	16517 Mar 03 19:24	0° \mathcal{B}			16519 Sep 30 07:49	0° \mathcal{L}	
	16517 Mar 29 02:50	0° \mathbb{I}			16519 Oct 24 12:22	0° \mathbb{M}	
	16517 Apr 24 01:34	0° \mathcal{G}		asc. node	16519 Nov 12 15:15	23° \mathbb{M} 47'05	
	16517 May 21 08:42	0° \mathcal{Q}			16519 Nov 17 15:01	0° \mathcal{Z}	
asc. node	16517 May 27 13:35	6° \mathcal{Q} 25'59		morning set	16519 Nov 30 11:21	16° \mathcal{Z} 00'34	
evening max el	16517 Jun 02 15:15	12° \mathcal{Q} 31'01	46°15'07		16519 Dec 11 16:46	0° \mathcal{Z}	
	16517 Jun 22 02:54	0° \mathcal{M}			16520 Jan 04 18:47	0° \approx	
greatest brilliancy	16517 Jul 12 18:26	12° \mathcal{M} 15'18	-4.8m				
retrograde	16517 Jul 22 06:05	13° \mathcal{M} 56'02		superior conj	16520 Jan 07 07:13	3° \approx 07'56	1°27'14
evening set	16517 Aug 08 07:28	8° \mathcal{M} 18'49		minimum elong	16520 Jan 07 07:13	3° \approx 07'56	1°27'47
inferior conj	16517 Aug 11 22:23	6° \mathcal{M} 06'34	7°45'22	max. Earth dist.	16520 Jan 09 22:02	6° \approx 23'11	1.72464 AU
minimum elong	16517 Aug 12 08:20	5° \mathcal{M} 51'10	7°43'24		16520 Jan 28 22:40	0° \mathcal{H}	
min. Earth dist.	16517 Aug 12 16:18	5° \mathcal{M} 38'52	0.27438 AU	evening rise	16520 Feb 13 19:08	19° \mathcal{H} 35'35	
morning rise	16517 Aug 16 09:04	3° \mathcal{M} 25'10			16520 Feb 22 05:48	0° Υ	
	16517 Aug 23 07:43	30° \mathcal{R} \mathcal{Q}		desc. node	16520 Mar 03 08:24	12° Υ 25'32	
direct	16517 Sep 01 20:50	28° \mathcal{Q} 08'14			16520 Mar 17 16:36	0° \mathcal{B}	
	16517 Sep 11 18:45	0° \mathcal{M}			16520 Apr 11 06:39	0° \mathbb{I}	
greatest brilliancy	16517 Sep 12 02:52	0° \mathcal{M} 07'25	-4.9m		16520 May 05 23:54	0° \mathcal{G}	
desc. node	16517 Sep 16 13:10	2° \mathcal{M} 03'00			16520 May 30 22:09	0° \mathcal{Q}	
	16517 Oct 21 12:10	0° \mathcal{L}		asc. node	16520 Jun 24 01:17	28° \mathcal{Q} 34'35	
morning max el	16517 Oct 22 07:45	0° \mathcal{L} 48'47	46°52'11		16520 Jun 25 06:31	0° \mathcal{M}	
	16517 Nov 18 16:28	0° \mathbb{M}			16520 Jul 21 12:39	0° \mathcal{L}	
	16517 Dec 14 21:02	0° \mathcal{Z}		evening max el	16520 Aug 14 13:38	25° \mathcal{L} 30'39	46°36'10
asc. node	16518 Jan 07 12:55	27° \mathcal{Z} 58'53			16520 Aug 19 03:20	0° \mathbb{M}	
	16518 Jan 09 05:25	0° \mathcal{Z}		greatest brilliancy	16520 Sep 23 03:44	25° \mathbb{M} 44'35	-4.9m
	16518 Feb 03 02:39	0° \approx		retrograde	16520 Oct 03 16:58	27° \mathbb{M} 49'04	
	16518 Feb 27 17:20	0° \mathcal{H}		desc. node	16520 Oct 13 23:31	25° \mathbb{M} 42'09	
	16518 Mar 24 04:31	0° Υ		evening set	16520 Oct 18 05:09	23° \mathbb{M} 42'32	
	16518 Apr 17 13:46	0° \mathcal{B}		min. Earth dist.	16520 Oct 24 02:47	20° \mathbb{M} 16'42	0.27056 AU
morning set	16518 Apr 21 09:24	4° \mathcal{B} 42'16		inferior conj	16520 Oct 24 12:08	20° \mathbb{M} 02'28	-2°42'53
desc. node	16518 Apr 29 09:08	14° \mathcal{B} 33'17		minimum elong	16520 Oct 24 05:58	20° \mathbb{M} 11'52	2°40'31
	16518 May 11 21:18	0° \mathbb{I}		morning rise	16520 Oct 30 07:03	16° \mathbb{M} 38'51	
max. Earth dist.	16518 May 27 18:14	19° \mathbb{I} 38'26	1.72625 AU	direct	16520 Nov 14 06:41	12° \mathbb{M} 18'43	
				greatest brilliancy	16520 Nov 23 23:34	14° \mathbb{M} 02'13	-4.8m
superior conj	16518 May 30 03:15	22° \mathbb{I} 35'06	-1°06'22		16520 Dec 19 05:37	0° \mathcal{Z}	
minimum elong	16518 May 29 16:21	22° \mathbb{I} 01'17	1°06'37	morning max el	16521 Jan 02 18:22	13° \mathcal{Z} 15'43	46°14'39
	16518 Jun 05 02:45	0° \mathcal{G}			16521 Jan 19 03:50	0° \mathcal{Z}	
	16518 Jun 29 06:05	0° \mathcal{Q}		asc. node	16521 Feb 03 23:40	17° \mathcal{Z} 15'08	
evening rise	16518 Jul 08 01:42	10° \mathcal{Q} 58'44			16521 Feb 15 06:36	0° \approx	
	16518 Jul 23 08:06	0° \mathcal{M}			16521 Mar 13 01:11	0° \mathcal{H}	
	16518 Aug 16 10:11	0° \mathcal{L}			16521 Apr 07 04:09	0° Υ	
asc. node	16518 Aug 20 01:23	4° \mathcal{L} 31'10			16521 May 01 22:25	0° \mathcal{B}	
	16518 Sep 09 13:57	0° \mathbb{M}			16521 May 26 10:46	0° \mathbb{I}	
	16518 Oct 03 21:35	0° \mathcal{Z}		desc. node	16521 May 26 21:38	0° \mathbb{I} 33'22	
	16518 Oct 28 13:01	0° \mathcal{Z}			16521 Jun 19 18:14	0° \mathcal{G}	
	16518 Nov 22 20:04	0° \approx		morning set	16521 Jul 02 20:58	16° \mathcal{G} 16'22	
desc. node	16518 Dec 09 19:35	19° \approx 23'17			16521 Jul 13 21:39	0° \mathcal{Q}	
	16518 Dec 19 11:00	0° \mathcal{H}			16521 Aug 06 22:14	0° \mathcal{M}	
evening max el	16519 Jan 08 13:55	20° \mathcal{H} 46'25	46°12'37	max. Earth dist.	16521 Aug 09 09:54	3° \mathcal{M} 06'38	1.71729 AU
	16519 Jan 18 11:37	0° Υ					
greatest brilliancy	16519 Feb 16 18:07	19° Υ 32'12	-4.8m	superior conj	16521 Aug 11 10:43	5° \mathcal{M} 39'17	-1°14'38
retrograde	16519 Feb 26 20:22	21° Υ 23'05		minimum elong	16521 Aug 11 21:19	6° \mathcal{M} 12'29	1°14'40
evening set	16519 Mar 14 10:46	16° Υ 40'41			16521 Aug 30 21:27	0° \mathcal{L}	
inferior conj	16519 Mar 20 04:38	13° Υ 11'41	-3°03'25	asc. node	16521 Sep 16 14:55	20° \mathcal{L} 56'49	
minimum elong	16519 Mar 20 11:15	13° Υ 01'18	3°01'34	evening rise	16521 Sep 20 11:01	25° \mathcal{L} 44'58	
min. Earth dist.	16519 Mar 20 08:05	13° Υ 06'17	0.28481 AU		16521 Sep 23 20:32	0° \mathbb{M}	
morning rise	16519 Mar 26 11:48	9° Υ 24'56			16521 Oct 17 20:39	0° \mathcal{Z}	

	16521 Nov 10 23:32	0° Z			16524 Apr 18 21:31	0° Y	
	16521 Dec 05 08:07	0° \approx			16524 May 14 23:56	0° B	
	16521 Dec 30 02:42	0° H			16524 Jun 09 05:35	0° II	
desc. node	16522 Jan 06 07:49	8° H 36'22		desc. node	16524 Jun 23 09:28	17° II 07'20	
	16522 Jan 24 13:01	0° Y			16524 Jul 03 22:53	0° G	
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	16522 Mar 20 19:43	0° II			16524 Sep 14 12:06	0° A	
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evening set	16522 May 24 14:10	25° II 21'41		minimum elong	16524 Oct 24 06:46	19° M 47'27 0°25'17	
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minimum elong	16522 May 29 07:04	22° II 30'11 6°43'06			16524 Nov 01 10:28	0° A	
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morning rise	16522 Jun 02 23:48	19° II 35'52		evening rise	16524 Dec 01 21:03	8° Z 02'37	
direct	16522 Jun 19 20:27	14° II 03'03			16524 Dec 19 12:40	0° \approx	
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morning max el	16522 Aug 09 00:05	16° G 14'57 46°43'28			16525 Feb 06 09:18	0° Y	
desc. node	16522 Aug 19 05:07	26° G 46'32			16525 Mar 03 07:20	0° B	
	16522 Aug 22 05:37	0° Q			16525 Mar 28 15:45	0° II	
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	16522 Oct 13 09:31	0° A			16525 May 21 03:45	0° Q	
	16522 Nov 07 05:56	0° M		asc. node	16525 May 26 15:28	5° Q 38'10	
	16522 Dec 01 19:22	0° A		evening max el	16525 Jun 31 05:39	10° Q 13'00 46°14'18	
asc. node	16522 Dec 10 03:20	10° A 13'51			16525 Jun 22 17:54	0° M	
	16522 Dec 26 04:33	0° Z		greatest brilliancy	16525 Jul 10 08:03	9° M 54'28 -4.8m	
	16523 Jan 19 11:15	0° \approx		retrograde	16525 Jul 19 19:15	11° M 34'26	
morning set	16523 Feb 08 18:09	25° \approx 06'14		evening set	16525 Aug 06 00:17	5° M 52'22	
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	16523 Mar 08 23:33	0° Y		minimum elong	16525 Aug 09 21:26	3° M 29'50 7°55'18	
				min. Earth dist.	16525 Aug 10 05:37	3° M 17'08 0.27479 AU	
superior conj	16523 Mar 17 21:08	10° Y 59'17 0°33'23		morning rise	16525 Aug 13 18:25	1° M 08'46	
minimum elong	16523 Mar 18 04:12	11° Y 21'06 0°32'59			16525 Aug 15 19:15	30° R Q	
max. Earth dist.	16523 Mar 18 20:53	12° Y 12'32 1.73082 AU		direct	16525 Aug 30 10:51	25° Q 45'41	
desc. node	16523 Mar 31 21:50	28° Y 17'32		greatest brilliancy	16525 Sep 09 16:17	27° Q 44'03 -4.9m	
	16523 Apr 02 07:05	0° B			16525 Sep 14 18:48	0° M	
evening rise	16523 Apr 24 22:07	27° B 53'21		desc. node	16525 Sep 15 15:09	0° M 26'40	
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	16523 May 20 23:19	0° G			16525 Oct 21 10:42	0° A	
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asc. node	16523 Jul 22 14:00	17° M 00'01		asc. node	16526 Jan 06 14:53	27° A 27'38	
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desc. node	16523 Nov 11 10:08	22° Z 42'22		morning set	16526 Apr 19 00:53	2° B 29'17	
	16523 Nov 20 17:13	0° \approx		desc. node	16526 Apr 28 10:52	14° B 05'49	
greatest brilliancy	16523 Dec 05 05:18	8° \approx 04'05 -4.8m			16526 May 11 07:56	0° II	
retrograde	16523 Dec 15 19:14	10° \approx 07'57		max. Earth dist.	16526 May 25 07:41	17° II 18'37 1.72653 AU	
evening set	16524 Jan 03 06:15	3° \approx 44'01					
min. Earth dist.	16524 Jan 05 15:28	2° \approx 16'18 0.28329 AU		superior conj	16526 May 27 17:35	20° II 17'57 -1°03'57	
inferior conj	16524 Jan 06 02:24	1° \approx 59'23 -9°00'30		minimum elong	16526 May 27 06:38	19° II 44'00 1°04'09	
minimum elong	16524 Jan 06 02:15	1° \approx 59'38 8°59'56			16526 Jun 04 13:22	0° G	
morning rise	16524 Jan 08 22:22	0° \approx 15'20			16526 Jun 28 16:44	0° Q	
	16524 Jan 09 08:36	30° R Z		evening rise	16526 Jul 05 14:48	8° Q 36'45	
direct	16524 Jan 27 05:37	23° Z 59'41			16526 Jul 22 18:52	0° M	
greatest brilliancy	16524 Feb 06 03:56	25° Z 47'53 -4.8m			16526 Aug 15 21:09	0° A	
	16524 Feb 15 03:06	0° \approx		asc. node	16526 Aug 19 03:18	4° A 02'54	
asc. node	16524 Mar 03 09:50	12° \approx 38'07			16526 Sep 09 01:14	0° M	
morning max el	16524 Mar 16 08:43	24° \approx 30'44 45°45'18			16526 Oct 03 09:19	0° A	
	16524 Mar 21 21:49	0° H			16526 Oct 28 01:29	0° Z	




































































































































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desc. node	16526 Dec 08 21:28	18°♊45'20			16529 Jul 13 08:09	0°♊	
	16526 Dec 19 03:56	0°♋			16529 Aug 06 08:44	0°♋	
evening max el	16527 Jan 06 04:19	18°♋31'05	46°13'22	max. Earth dist.	16529 Aug 06 21:36	0°♋40'13	1.71751 AU
	16527 Jan 18 15:38	0°♌					
greatest brilliancy	16527 Feb 14 10:29	17°♌21'07	-4.8m	superior conj	16529 Aug 08 23:03	3°♌14'53	-1°16'37
retrograde	16527 Feb 24 11:16	19°♌10'59		minimum elong	16529 Aug 09 09:12	3°♌46'38	1°16'41
evening set	16527 Mar 12 04:31	14°♌25'36			16529 Aug 30 07:58	0°♍	
inferior conj	16527 Mar 17 20:16	10°♌59'44	-3°23'16	asc. node	16529 Sep 15 16:40	20°♍29'19	
minimum elong	16527 Mar 18 03:29	10°♌48'23	3°21'15	evening rise	16529 Sep 17 23:42	23°♍21'30	
min. Earth dist.	16527 Mar 18 00:18	10°♌53'24	0.28489 AU		16529 Sep 23 07:06	0°♎	
morning rise	16527 Mar 24 02:26	7°♌14'01			16529 Oct 17 07:18	0°♏	
asc. node	16527 Mar 31 19:54	3°♌54'45			16529 Nov 10 10:22	0°♐	
direct	16527 Apr 08 02:20	2°♌51'14			16529 Dec 04 19:19	0°♑	
greatest brilliancy	16527 Apr 18 18:23	4°♌56'08	-4.8m		16529 Dec 29 14:33	0°♒	
	16527 May 23 10:28	0°♓		desc. node	16530 Jan 05 09:45	8°♒06'12	
morning max el	16527 May 27 08:47	3°♓47'37	46°00'57		16530 Jan 24 02:02	0°♓	
	16527 Jun 21 08:10	0°♔			16530 Feb 19 16:27	0°♔	
	16527 Jul 17 15:18	0°♕		evening max el	16530 Mar 17 23:34	27°♕19'55	46°01'10
desc. node	16527 Jul 21 20:38	4°♕57'34			16530 Mar 20 18:19	0°♕	
	16527 Aug 11 20:03	0°♖		greatest brilliancy	16530 Apr 26 04:28	26°♖13'27	-4.8m
	16527 Sep 05 11:05	0°♗		asc. node	16530 Apr 28 06:23	26°♖53'52	
	16527 Sep 29 18:56	0°♘		retrograde	16530 May 06 06:12	28°♖06'08	
	16527 Oct 23 23:13	0°♙		evening set	16530 May 22 02:05	23°♖11'46	
asc. node	16527 Nov 11 16:59	23°♙19'11		inferior conj	16530 May 27 08:48	19°♖58'58	6°31'03
	16527 Nov 17 01:41	0°♚		minimum elong	16530 May 26 22:12	20°♖15'35	6°28'10
morning set	16527 Nov 28 01:38	13°♚42'30		min. Earth dist.	16530 May 27 05:53	20°♖03'32	0.28279 AU
	16527 Dec 11 03:18	0°♛		morning rise	16530 May 31 18:13	17°♖16'42	
	16528 Jan 04 05:15	0°♜		direct	16530 Jun 17 12:09	11°♖48'26	
				greatest brilliancy	16530 Jun 27 15:39	13°♖43'58	-4.8m
superior conj	16528 Jan 04 23:07	0°♜55'35	1°27'10		16530 Jul 22 16:14	0°♗	
minimum elong	16528 Jan 04 22:17	0°♜52'58	1°27'43	morning max el	16530 Aug 06 16:00	14°♗01'09	46°42'12
max. Earth dist.	16528 Jan 07 10:43	4°♜00'54	1.72433 AU	desc. node	16530 Aug 18 07:01	26°♗02'42	
	16528 Jan 28 09:08	0°♞			16530 Aug 21 23:17	0°♗	
evening rise	16528 Feb 11 10:40	17°♞23'04			16530 Sep 17 13:32	0°♘	
	16528 Feb 21 16:21	0°♟			16530 Oct 12 22:08	0°♘	
desc. node	16528 Mar 02 10:11	11°♟58'32			16530 Nov 06 17:40	0°♙	
	16528 Mar 17 03:19	0°♠			16530 Dec 01 06:30	0°♚	
	16528 Apr 10 17:40	0°♡		asc. node	16530 Dec 09 05:19	9°♚46'07	
	16528 May 05 11:26	0°♢			16530 Dec 25 15:18	0°♛	
	16528 May 30 10:29	0°♣			16531 Jan 18 21:45	0°♜	
asc. node	16528 Jun 23 03:13	28°♣00'25		morning set	16531 Feb 06 10:58	22°♜57'39	
	16528 Jun 24 20:15	0°♤			16531 Feb 12 03:28	0°♞	
	16528 Jul 21 05:14	0°♥			16531 Mar 08 09:52	0°♟	
evening max el	16528 Aug 12 02:19	23°♥06'45	46°35'48				
	16528 Aug 19 04:23	0°♦		superior conj	16531 Mar 15 13:11	8°♟48'48	0°36'32
greatest brilliancy	16528 Sep 20 18:09	23°♦22'54	-4.9m	minimum elong	16531 Mar 15 20:47	9°♟12'16	0°36'09
retrograde	16528 Oct 01 06:07	25°♦26'43		max. Earth dist.	16531 Mar 16 17:52	10°♟17'19	1.73078 AU
desc. node	16528 Oct 13 01:17	22°♦40'10		desc. node	16531 Mar 30 23:34	27°♟51'02	
evening set	16528 Oct 15 17:35	21°♦20'56			16531 Apr 01 17:25	0°♠	
min. Earth dist.	16528 Oct 21 17:16	17°♦52'37	0.27032 AU	evening rise	16531 Apr 22 13:43	25°♠41'24	
inferior conj	16528 Oct 22 01:09	17°♦40'37	-2°19'46		16531 Apr 26 01:40	0°♡	
minimum elong	16528 Oct 21 19:48	17°♦48'46	2°17'40		16531 May 20 09:56	0°♢	
morning rise	16528 Oct 27 22:13	14°♦14'12			16531 Jun 13 18:19	0°♣	
direct	16528 Nov 11 18:57	9°♦56'35			16531 Jul 08 04:08	0°♤	
greatest brilliancy	16528 Nov 21 13:44	11°♦41'43	-4.8m	asc. node	16531 Jul 21 15:54	16°♤30'20	
	16528 Dec 19 12:18	0°♧			16531 Aug 01 17:58	0°♥	
morning max el	16528 Dec 31 08:09	10°♧57'06	46°16'10		16531 Aug 26 16:05	0°♦	
	16529 Jan 18 21:25	0°♨			16531 Sep 21 07:15	0°♧	
asc. node	16529 Feb 03 01:36	16°♨38'09			16531 Oct 18 15:13	0°♨	
	16529 Feb 14 20:34	0°♊		evening max el	16531 Oct 24 07:15	5°♨46'15	46°35'44
	16529 Mar 12 13:32	0°♋		desc. node	16531 Nov 10 12:06	21°♨39'22	
	16529 Apr 06 15:38	0°♌			16531 Nov 21 16:04	0°♊	
	16529 May 01 09:24	0°♍		greatest brilliancy	16531 Dec 02 19:12	5°♊47'28	-4.8m
desc. node	16529 May 25 23:27	0°♎		retrograde	16531 Dec 13 10:37	7°♊52'16	
	16529 May 25 21:27	0°♏		evening set	16531 Dec 31 19:53	1°♊30'26	
	16529 Jun 19 04:47	0°♐		min. Earth dist.	16532 Jan 03 04:50	0°♋03'05	0.28292 AU

	16532 Jan 03 06:49	30° κ 3		minimum elong	16534 May 24 21:00	17° Π 27'19	1°01'35
inferior conj	16532 Jan 03 17:01	29° ζ 44'13	-9°00'13		16534 Jun 03 23:55	0° ϕ	
minimum elong	16532 Jan 03 15:59	29° ζ 45'49	8°59'38		16534 Jun 28 03:23	0° Ω	
morning rise	16532 Jan 06 12:14	28° ζ 01'19		evening rise	16534 Jul 03 03:49	6° Ω 14'37	
direct	16532 Jan 24 20:35	21° ζ 45'25			16534 Jul 22 05:40	0° η	
greatest brilliancy	16532 Feb 03 16:25	23° ζ 31'43	-4.8m		16534 Aug 15 08:10	0° $\underline{\Omega}$	
	16532 Feb 16 08:44	0° \approx		asc. node	16534 Aug 18 04:58	3° $\underline{\Omega}$ 33'50	
asc. node	16532 Mar 02 11:41	11° \approx 39'48			16534 Sep 08 12:33	0° \mathcal{M}	
morning max el	16532 Mar 13 23:39	22° \approx 17'20	45°45'30		16534 Oct 02 21:04	0° \mathcal{X}	
	16532 Mar 21 17:25	0° \mathcal{H}			16534 Oct 27 14:01	0° ζ	
	16532 Apr 18 12:05	0° Υ			16534 Nov 21 23:53	0° \approx	
	16532 May 14 12:34	0° \mathcal{B}		desc. node	16534 Dec 07 23:25	18° \approx 07'06	
	16532 Jun 08 17:17	0° Π			16534 Dec 18 21:17	0° \mathcal{H}	
desc. node	16532 Jun 22 11:26	16° Π 38'45		evening max el	16535 Jan 03 18:11	16° \mathcal{H} 14'12	46°14'07
	16532 Jul 03 10:04	0° ϕ			16535 Jan 18 21:46	0° Υ	
	16532 Jul 27 18:47	0° Ω		greatest brilliancy	16535 Feb 12 02:28	15° Υ 09'17	-4.8m
	16532 Aug 20 22:12	0° η		retrograde	16535 Feb 22 02:12	16° Υ 58'46	
morning set	16532 Sep 12 12:50	28° η 14'10		evening set	16535 Mar 09 22:18	12° Υ 09'51	
	16532 Sep 13 22:41	0° $\underline{\Omega}$		inferior conj	16535 Mar 15 11:49	8° Υ 47'31	-3°42'49
	16532 Oct 07 21:56	0° \mathcal{M}		minimum elong	16535 Mar 15 19:38	8° Υ 35'16	3°40'38
asc. node	16532 Oct 13 05:57	6° \mathcal{M} 40'43		min. Earth dist.	16535 Mar 15 16:29	8° Υ 40'12	0.28497 AU
				morning rise	16535 Mar 21 16:50	5° Υ 03'16	
superior conj	16532 Oct 22 01:56	17° \mathcal{M} 44'16	0°21'31	asc. node	16535 Mar 30 21:46	1° Υ 19'36	
minimum elong	16532 Oct 21 20:40	17° \mathcal{M} 27'44	0°21'41	direct	16535 Apr 05 17:18	0° Υ 38'54	
max. Earth dist.	16532 Oct 22 19:42	18° \mathcal{M} 39'52	1.71670 AU	greatest brilliancy	16535 Apr 16 10:45	2° Υ 44'42	-4.8m
	16532 Oct 31 20:59	0° \mathcal{X}			16535 May 23 09:27	0° \mathcal{B}	
	16532 Nov 24 20:53	0° ζ		morning max el	16535 May 24 23:17	1° \mathcal{B} 32'04	45°59'50
evening rise	16532 Nov 29 11:52	5° ζ 46'14			16535 Jun 20 23:57	0° Π	
	16532 Dec 18 23:16	0° \approx			16535 Jul 17 04:40	0° ϕ	
	16533 Jan 12 06:22	0° \mathcal{H}		desc. node	16535 Jul 20 22:29	4° ϕ 24'16	
desc. node	16533 Feb 01 22:41	25° \mathcal{H} 15'46			16535 Aug 11 08:19	0° Ω	
	16533 Feb 05 20:23	0° Υ			16535 Sep 04 22:45	0° η	
	16533 Mar 02 19:01	0° \mathcal{B}			16535 Sep 29 06:14	0° $\underline{\Omega}$	
	16533 Mar 28 04:28	0° Π			16535 Oct 23 10:15	0° \mathcal{M}	
	16533 Apr 23 06:59	0° ϕ		asc. node	16535 Nov 10 18:56	22° \mathcal{M} 51'27	
	16533 May 20 23:10	0° Ω			16535 Nov 16 12:31	0° \mathcal{X}	
asc. node	16533 May 25 17:24	4° Ω 50'11		morning set	16535 Nov 25 15:38	11° \mathcal{X} 22'56	
evening max el	16533 May 28 19:18	7° Ω 53'33	46°13'24		16535 Dec 10 13:59	0° ζ	
	16533 Jun 23 13:57	0° η					
greatest brilliancy	16533 Jul 07 22:06	7° η 34'27	-4.8m	superior conj	16536 Jan 02 14:50	28° ζ 42'05	1°26'57
retrograde	16533 Jul 17 07:54	9° η 13'21		minimum elong	16536 Jan 02 13:10	28° ζ 36'53	1°27'31
evening set	16533 Aug 03 17:01	3° η 26'28			16536 Jan 03 15:53	0° \approx	
inferior conj	16533 Aug 07 01:31	1° η 23'09	8°07'55	max. Earth dist.	16536 Jan 04 23:31	1° \approx 38'24	1.72404 AU
minimum elong	16533 Aug 07 10:29	1° η 09'13	8°06'17		16536 Jan 27 19:48	0° \mathcal{H}	
min. Earth dist.	16533 Aug 07 19:14	0° η 55'38	0.27519 AU	evening rise	16536 Feb 09 02:13	15° \mathcal{H} 09'56	
	16533 Aug 09 07:17	30° κ Ω			16536 Feb 21 03:07	0° Υ	
morning rise	16533 Aug 11 03:47	28° Ω 53'05		desc. node	16536 Mar 01 11:56	11° Υ 30'41	
direct	16533 Aug 28 00:21	23° Ω 23'36			16536 Mar 16 14:16	0° \mathcal{B}	
greatest brilliancy	16533 Sep 07 06:13	25° Ω 21'52	-4.9m		16536 Apr 10 04:56	0° Π	
desc. node	16533 Sep 14 16:57	28° Ω 54'00			16536 May 04 23:11	0° ϕ	
	16533 Sep 16 13:32	0° η			16536 May 29 23:05	0° Ω	
morning max el	16533 Oct 17 10:24	26° η 02'44	46°53'12	asc. node	16536 Jun 22 05:06	27° Ω 25'15	
	16533 Oct 21 08:08	0° $\underline{\Omega}$			16536 Jun 24 10:20	0° η	
	16533 Nov 18 00:17	0° \mathcal{M}			16536 Jul 20 22:28	0° $\underline{\Omega}$	
	16533 Dec 14 00:05	0° \mathcal{X}		evening max el	16536 Aug 09 15:30	20° $\underline{\Omega}$ 43'11	46°35'15
asc. node	16534 Jan 05 16:43	26° \mathcal{X} 56'28			16536 Aug 19 07:22	0° \mathcal{M}	
	16534 Jan 08 05:56	0° ζ		greatest brilliancy	16536 Sep 18 07:48	20° \mathcal{M} 58'35	-4.9m
	16534 Feb 02 01:37	0° \approx		retrograde	16536 Sep 28 19:25	23° \mathcal{M} 02'18	
	16534 Feb 26 15:21	0° \mathcal{H}		desc. node	16536 Oct 12 03:17	19° \mathcal{M} 31'10	
	16534 Mar 23 01:59	0° Υ		evening set	16536 Oct 13 05:57	18° \mathcal{M} 56'52	
	16534 Apr 16 10:58	0° \mathcal{B}		inferior conj	16536 Oct 19 13:51	15° \mathcal{M} 16'29	-1°56'06
morning set	16534 Apr 16 16:31	0° \mathcal{B} 17'06		minimum elong	16536 Oct 19 09:21	15° \mathcal{M} 23'19	1°54'16
desc. node	16534 Apr 27 12:44	13° \mathcal{B} 39'12		min. Earth dist.	16536 Oct 19 07:12	15° \mathcal{M} 26'35	0.27010 AU
	16534 May 10 18:26	0° Π		morning rise	16536 Oct 25 12:57	11° \mathcal{M} 47'42	
max. Earth dist.	16534 May 22 22:02	15° Π 01'55	1.72687 AU	direct	16536 Nov 09 07:34	7° \mathcal{M} 32'15	
				greatest brilliancy	16536 Nov 19 03:15	9° \mathcal{M} 18'43	-4.8m
superior conj	16534 May 25 07:56	18° Π 01'11	-1°01'24		16536 Dec 19 17:27	0° \mathcal{X}	

morning max el	16536 Dec 28 22:24	8° X 38'25	46°17'44		16539 Aug 26 05:30	0° M	
	16537 Jan 18 14:59	0° Z			16539 Sep 20 22:44	0° X	
asc. node	16537 Feb 02 03:28	16° Z 00'20			16539 Oct 18 11:55	0° Z	
	16537 Feb 14 10:43	0° \approx		evening max el	16539 Oct 21 22:29	3° Z 28'47	46°36'04
	16537 Mar 12 02:08	0° X		desc. node	16539 Nov 09 14:01	20° Z 33'26	
	16537 Apr 06 03:25	0° Y			16539 Nov 23 01:03	0° \approx	
	16537 Apr 30 20:41	0° B		greatest brilliancy	16539 Nov 30 09:37	3° \approx 29'54	-4.8m
desc. node	16537 May 25 01:23	29° B 38'15		retrograde	16539 Dec 11 01:26	5° \approx 34'47	
	16537 May 25 08:28	0° II			16539 Dec 28 03:30	30° R Z	
	16537 Jun 18 15:38	0° G		evening set	16539 Dec 29 08:56	29° Z 16'05	
morning set	16537 Jun 27 22:16	11° G 30'22		inferior conj	16540 Jan 01 07:35	27° Z 27'28	-8°58'59
	16537 Jul 12 18:56	0° O		minimum elong	16540 Jan 01 05:39	27° Z 30'27	8°58'23
max. Earth dist.	16537 Aug 04 11:09	28° O 18'43	1.71775 AU	min. Earth dist.	16539 Dec 31 18:28	27° Z 47'46	0.28256 AU
	16537 Aug 05 19:33	0° M		morning rise	16540 Jan 04 02:32	25° Z 44'53	
				direct	16540 Jan 22 11:14	19° Z 29'32	
superior conj	16537 Aug 06 11:33	0° M 50'03	-1°18'26	greatest brilliancy	16540 Feb 01 05:19	21° Z 14'11	-4.8m
minimum elong	16537 Aug 06 21:09	1° M 20'04	1°18'33		16540 Feb 17 06:54	0° \approx	
	16537 Aug 29 18:50	0° L		asc. node	16540 Mar 01 13:35	10° \approx 41'23	
asc. node	16537 Sep 14 18:31	20° L 00'58		morning max el	16540 Mar 11 13:37	20° \approx 00'00	45°45'46
evening rise	16537 Sep 15 12:17	20° L 56'35			16540 Mar 21 12:59	0° X	
	16537 Sep 22 18:02	0° M			16540 Apr 18 02:56	0° Y	
	16537 Oct 16 18:22	0° X			16540 May 14 01:32	0° B	
	16537 Nov 09 21:39	0° Z			16540 Jun 08 05:20	0° II	
	16537 Dec 04 06:59	0° \approx		desc. node	16540 Jun 21 13:09	16° II 08'16	
	16537 Dec 29 02:52	0° X			16540 Jul 02 21:38	0° G	
desc. node	16538 Jan 04 11:32	7° X 34'10			16540 Jul 27 06:03	0° O	
	16538 Jan 23 15:37	0° Y			16540 Aug 20 09:16	0° M	
	16538 Feb 19 08:43	0° B		morning set	16540 Sep 10 01:44	25° M 50'16	
evening max el	16538 Mar 15 15:41	25° B 08'10	46°01'13		16540 Sep 13 09:37	0° L	
	16538 Mar 20 18:35	0° II			16540 Oct 07 08:46	0° M	
greatest brilliancy	16538 Apr 23 18:23	23° II 56'58	-4.8m	asc. node	16540 Oct 12 07:51	6° M 12'49	
asc. node	16538 Apr 27 08:26	25° II 01'32					
retrograde	16538 May 03 21:30	25° II 50'21		superior conj	16540 Oct 19 15:24	15° M 22'18	0°17'54
evening set	16538 May 19 14:06	21° II 00'17		minimum elong	16540 Oct 19 10:57	15° M 08'23	0°18'04
inferior conj	16538 May 24 23:51	17° II 42'51	6°15'31	max. Earth dist.	16540 Oct 20 07:25	16° M 12'28	1.71652 AU
minimum elong	16538 May 24 13:18	17° II 59'26	6°12'35		16540 Oct 31 07:48	0° X	
min. Earth dist.	16538 May 24 20:18	17° II 48'25	0.28284 AU		16540 Nov 24 07:43	0° Z	
morning rise	16538 May 29 12:26	14° II 56'00		evening rise	16540 Nov 27 02:56	3° Z 29'43	
direct	16538 Jun 15 03:54	9° II 32'34			16540 Dec 18 10:10	0° \approx	
greatest brilliancy	16538 Jun 25 06:24	11° II 27'29	-4.8m		16541 Jan 11 17:28	0° X	
	16538 Jul 22 21:48	0° G		desc. node	16541 Feb 01 00:25	24° X 46'22	
morning max el	16538 Aug 04 07:15	11° G 44'42	46°40'59		16541 Feb 05 07:52	0° Y	
desc. node	16538 Aug 17 08:51	25° G 18'16			16541 Mar 02 07:08	0° B	
	16538 Aug 21 16:55	0° O			16541 Mar 27 17:40	0° II	
	16538 Sep 17 03:55	0° M			16541 Apr 22 22:16	0° G	
	16538 Oct 12 11:02	0° L			16541 May 20 19:39	0° O	
	16538 Nov 06 05:45	0° M		asc. node	16541 May 24 19:17	4° O 00'07	
	16538 Nov 30 18:04	0° X		evening max el	16541 May 26 07:56	5° O 30'35	46°12'32
asc. node	16538 Dec 08 07:08	9° X 16'33			16541 Jun 24 18:14	0° M	
	16538 Dec 25 02:31	0° Z		greatest brilliancy	16541 Jul 05 12:10	5° M 13'27	-4.8m
	16539 Jan 18 08:43	0° \approx		retrograde	16541 Jul 14 20:34	6° M 51'38	
morning set	16539 Feb 04 03:26	20° \approx 46'37		evening set	16541 Aug 01 09:34	0° M 59'49	
	16539 Feb 11 14:16	0° X			16541 Aug 03 00:59	30° R O	
	16539 Mar 07 20:36	0° Y		inferior conj	16541 Aug 04 15:08	29° O 00'54	8°17'45
				minimum elong	16541 Aug 04 23:30	28° O 47'53	8°16'18
superior conj	16539 Mar 13 05:00	6° Y 36'20	0°39'39	min. Earth dist.	16541 Aug 05 08:59	28° O 33'10	0.27559 AU
minimum elong	16539 Mar 13 13:05	7° Y 01'17	0°39'16	morning rise	16541 Aug 08 13:15	26° O 36'45	
max. Earth dist.	16539 Mar 14 14:12	8° Y 18'48	1.73070 AU	direct	16541 Aug 25 13:38	21° O 00'25	
desc. node	16539 Mar 30 01:24	27° Y 23'31		greatest brilliancy	16541 Sep 04 20:38	22° O 59'23	-4.9m
	16539 Apr 01 04:11	0° B		desc. node	16541 Sep 13 18:56	27° O 23'53	
evening rise	16539 Apr 20 05:10	23° B 27'35			16541 Sep 17 19:25	0° M	
	16539 Apr 25 12:34	0° II		morning max el	16541 Oct 14 23:34	23° M 38'40	46°53'57
	16539 May 19 21:03	0° G			16541 Oct 21 05:06	0° L	
	16539 Jun 13 05:42	0° O			16541 Nov 17 15:55	0° M	
	16539 Jul 07 15:54	0° M			16541 Dec 13 13:31	0° X	
asc. node	16539 Jul 20 17:39	15° M 58'51		asc. node	16542 Jan 04 18:32	26° X 24'54	
	16539 Aug 01 06:20	0° L			16542 Jan 07 18:11	0° Z	

	16542 Feb 01 13:10	0°≈			16544 Aug 19 12:03	0°ℓ	
	16542 Feb 26 02:30	0°✕		greatest brilliancy	16544 Sep 15 21:03	18°ℓ34'08	-4.9m
	16542 Mar 22 12:53	0°Υ		retrograde	16544 Sep 26 09:02	20°ℓ37'58	
morning set	16542 Apr 14 08:08	28°Υ04'02		evening set	16544 Oct 10 18:36	16°ℓ32'47	
	16542 Apr 15 21:46	0°♂		desc. node	16544 Oct 11 05:14	16°ℓ18'35	
desc. node	16542 Apr 26 14:36	13°♂11'49		inferior conj	16544 Oct 17 02:30	12°ℓ52'21	-1°32'13
	16542 May 10 05:11	0°♂		minimum elong	16544 Oct 16 22:55	12°ℓ57'48	1°30'41
max. Earth dist.	16542 May 20 14:03	12°♂49'41	1.72720 AU	min. Earth dist.	16544 Oct 16 20:49	13°ℓ00'59	0.26990 AU
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superior conj	16542 May 22 22:12	15°♂43'29	-0°58'45	direct	16544 Nov 06 20:40	5°ℓ08'07	
minimum elong	16542 May 22 11:22	15°♂09'56	0°58'55	greatest brilliancy	16544 Nov 16 16:13	6°ℓ55'08	-4.8m
	16542 Jun 03 10:41	0°♂			16544 Dec 19 20:39	0°♂	
	16542 Jun 27 14:15	0°♂		morning max el	16544 Dec 26 13:00	6°♂20'53	46°19'22
evening rise	16542 Jun 30 16:55	3°♂52'12			16545 Jan 18 08:00	0°♂	
	16542 Jul 21 16:41	0°♂		asc. node	16545 Feb 01 05:22	15°♂23'28	
	16542 Aug 14 19:25	0°♂			16545 Feb 14 00:31	0°≈	
asc. node	16542 Aug 17 06:53	3°♂04'43			16545 Mar 11 14:26	0°✕	
	16542 Sep 08 00:05	0°ℓ			16545 Apr 05 14:54	0°Υ	
	16542 Oct 02 09:03	0°♂			16545 Apr 30 07:44	0°♂	
	16542 Oct 27 02:44	0°♂		desc. node	16545 May 24 03:07	29°♂10'20	
	16542 Nov 21 14:06	0°≈			16545 May 24 19:17	0°♂	
desc. node	16542 Dec 07 01:14	17°≈28'07			16545 Jun 18 02:21	0°♂	
	16542 Dec 18 15:04	0°✕		morning set	16545 Jun 25 11:02	9°♂07'51	
evening max el	16543 Jan 01 08:14	13°✕57'53	46°14'56		16545 Jul 12 05:37	0°♂	
	16543 Jan 19 06:17	0°Υ		max. Earth dist.	16545 Aug 01 23:09	25°♂52'48	1.71797 AU
greatest brilliancy	16543 Feb 09 17:49	12°Υ56'59	-4.8m				
retrograde	16543 Feb 19 17:41	14°Υ47'00		superior conj	16545 Aug 03 23:52	28°♂25'04	-1°20'06
evening set	16543 Mar 07 16:19	9°Υ54'09		minimum elong	16545 Aug 04 08:50	28°♂53'08	1°20'17
inferior conj	16543 Mar 13 03:31	6°Υ35'26	-4°01'50		16545 Aug 05 06:13	0°♂	
minimum elong	16543 Mar 13 11:52	6°Υ22'23	3°59'33		16545 Aug 29 05:32	0°♂	
min. Earth dist.	16543 Mar 13 08:28	6°Υ27'42	0.28510 AU	evening rise	16545 Sep 13 00:35	18°♂31'16	
morning rise	16543 Mar 19 07:16	2°Υ53'11		asc. node	16545 Sep 13 20:22	19°♂33'10	
	16543 Mar 25 13:51	30°✕✕			16545 Sep 22 04:48	0°ℓ	
asc. node	16543 Mar 29 23:48	28°✕49'40			16545 Oct 16 05:16	0°♂	
direct	16543 Apr 03 08:43	28°✕26'38			16545 Nov 09 08:48	0°♂	
	16543 Apr 12 12:59	0°Υ			16545 Dec 03 18:31	0°≈	
greatest brilliancy	16543 Apr 14 03:13	0°Υ33'29	-4.8m		16545 Dec 28 15:04	0°✕	
morning max el	16543 May 22 14:51	29°Υ18'54	45°58'40	desc. node	16546 Jan 03 13:23	7°✕02'49	
	16543 May 23 07:36	0°♂			16546 Jan 23 05:03	0°Υ	
	16543 Jun 20 15:35	0°♂			16546 Feb 19 00:54	0°♂	
desc. node	16543 Jul 16 18:01	0°♂		evening max el	16546 Mar 13 07:46	22°♂57'34	46°01'17
	16543 Jul 20 00:21	3°♂50'54			16546 Mar 20 19:33	0°♂	
	16543 Aug 10 20:35	0°♂		greatest brilliancy	16546 Apr 21 08:54	21°♂42'47	-4.8m
	16543 Sep 04 10:26	0°♂		asc. node	16546 Apr 26 10:13	23°♂06'24	
	16543 Sep 28 17:34	0°♂		retrograde	16546 May 01 12:33	23°♂36'12	
	16543 Oct 22 21:19	0°ℓ		evening set	16546 May 17 02:33	18°♂50'23	
asc. node	16543 Nov 09 20:43	22°ℓ23'05		inferior conj	16546 May 22 15:07	15°♂28'32	5°59'37
	16543 Nov 15 23:22	0°♂		minimum elong	16546 May 22 04:40	15°♂44'59	5°56'36
morning set	16543 Nov 23 05:44	9°♂03'34		min. Earth dist.	16546 May 22 11:10	15°♂34'46	0.28292 AU
	16543 Dec 10 00:41	0°♂		morning rise	16546 May 27 06:47	12°♂37'00	
				direct	16546 Jun 12 19:44	7°♂18'30	
superior conj	16543 Dec 31 06:46	26°♂29'16	1°26'36	greatest brilliancy	16546 Jun 22 21:37	9°♂12'45	-4.8m
minimum elong	16543 Dec 31 04:17	26°♂21'34	1°27'10		16546 Jul 23 01:07	0°♂	
max. Earth dist.	16544 Jan 02 14:18	29°♂22'05	1.72372 AU	morning max el	16546 Aug 01 21:45	9°♂27'05	46°39'32
	16544 Jan 03 02:29	0°≈		desc. node	16546 Aug 16 10:51	24°♂35'29	
	16544 Jan 27 06:24	0°✕			16546 Aug 21 09:57	0°♂	
evening rise	16544 Feb 06 18:08	12°✕58'13			16546 Sep 16 17:56	0°♂	
	16544 Feb 20 13:48	0°Υ			16546 Oct 11 23:39	0°♂	
desc. node	16544 Feb 29 13:52	11°Υ03'36			16546 Nov 05 17:31	0°ℓ	
	16544 Mar 16 01:10	0°♂			16546 Nov 30 05:18	0°♂	
	16544 Apr 09 16:10	0°♂		asc. node	16546 Dec 07 08:54	8°♂47'45	
	16544 May 04 10:59	0°♂			16546 Dec 24 13:24	0°♂	
	16544 May 29 11:46	0°♂			16547 Jan 17 19:22	0°≈	
asc. node	16544 Jun 21 06:54	26°♂49'35		morning set	16547 Feb 01 19:58	18°≈36'37	
	16544 Jun 24 00:36	0°♂			16547 Feb 11 00:46	0°✕	
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evening max el	16544 Aug 07 05:31	18°♂21'58	46°34'46				











































































































































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minimum elong	16547 Mar 11 05:43	4°♄52'20	0°42'18	minimum elong	16549 Aug 02 12:41	26°♁28'46	8°25'17
max. Earth dist.	16547 Mar 12 08:48	6°♄15'54	1.73055 AU	min. Earth dist.	16549 Aug 02 22:39	26°♁13'18	0.27603 AU
desc. node	16547 Mar 29 03:16	26°♄57'09		morning rise	16549 Aug 05 23:04	24°♁22'36	
	16547 Mar 31 14:37	0°♄		direct	16549 Aug 23 03:16	18°♁39'17	
evening rise	16547 Apr 17 20:59	21°♄16'08		greatest brilliancy	16549 Sep 02 11:07	20°♁39'01	-4.9m
	16547 Apr 24 23:06	0°♄		desc. node	16549 Sep 12 20:53	25°♁58'32	
	16547 May 19 07:46	0°♄			16549 Sep 18 16:15	0°♄	
	16547 Jun 12 16:42	0°♁		morning max el	16549 Oct 12 13:36	21°♄17'57	46°54'23
	16547 Jul 07 03:21	0°♄			16549 Oct 21 00:58	0°♄	
asc. node	16547 Jul 19 19:33	15°♄28'41			16549 Nov 17 07:01	0°♄	
	16547 Jul 31 18:28	0°♄			16549 Dec 13 02:35	0°♄	
	16547 Aug 25 18:47	0°♄		asc. node	16550 Jan 03 20:32	25°♄54'46	
	16547 Sep 20 14:12	0°♄			16550 Jan 07 06:07	0°♄	
	16547 Oct 18 09:06	0°♄			16550 Feb 01 00:24	0°♄	
evening max el	16547 Oct 19 12:39	1°♄09'13	46°36'27		16550 Feb 25 13:19	0°♄	
desc. node	16547 Nov 08 15:51	19°♄26'19			16550 Mar 21 23:29	0°♄	
	16547 Nov 25 02:06	0°♄		morning set	16550 Apr 11 23:44	25°♄51'55	
greatest brilliancy	16547 Nov 28 00:27	1°♄13'19	-4.8m		16550 Apr 15 08:14	0°♄	
retrograde	16547 Dec 08 15:41	3°♄17'53		desc. node	16550 Apr 25 16:19	12°♄44'56	
	16547 Dec 21 13:58	30°♄			16550 May 09 15:37	0°♄	
evening set	16547 Dec 26 21:29	27°♄03'00		max. Earth dist.	16550 May 18 07:43	10°♄43'32	1.72748 AU
inferior conj	16547 Dec 29 22:04	25°♄11'24	-8°57'00	superior conj	16550 May 20 12:35	13°♄27'06	-0°56'01
minimum elong	16547 Dec 29 19:14	25°♄15'48	8°56'19	minimum elong	16550 May 20 01:54	12°♄54'03	0°56'09
min. Earth dist.	16547 Dec 29 08:22	25°♄32'38	0.28217 AU		16550 Jun 02 21:08	0°♄	
morning rise	16548 Jan 01 17:08	23°♄28'31			16550 Jun 27 00:45	0°♁	
direct	16548 Jan 20 01:18	17°♄14'13		evening rise	16550 Jun 28 06:23	1°♁32'09	
greatest brilliancy	16548 Jan 29 18:45	18°♄57'54	-4.8m		16550 Jul 21 03:20	0°♄	
	16548 Feb 17 22:50	0°♄			16550 Aug 14 06:16	0°♄	
asc. node	16548 Feb 29 15:36	9°♄45'31		asc. node	16550 Aug 16 08:45	2°♄36'46	
morning max el	16548 Mar 09 02:47	17°♄41'35	45°46'14		16550 Sep 07 11:16	0°♄	
	16548 Mar 21 07:35	0°♄			16550 Oct 01 20:44	0°♄	
	16548 Apr 17 17:11	0°♄			16550 Oct 26 15:16	0°♄	
	16548 May 13 14:00	0°♄			16550 Nov 21 04:16	0°♄	
	16548 Jun 07 16:54	0°♄		desc. node	16550 Dec 06 03:07	16°♄49'25	
desc. node	16548 Jun 20 15:04	15°♄39'50			16550 Dec 18 09:09	0°♄	
	16548 Jul 02 08:43	0°♄		evening max el	16550 Dec 29 22:50	11°♄43'14	46°15'48
	16548 Jul 26 16:52	0°♁			16551 Jan 19 17:49	0°♄	
	16548 Aug 19 19:56	0°♄		greatest brilliancy	16551 Feb 07 08:32	10°♄44'01	-4.8m
morning set	16548 Sep 07 14:20	23°♄26'22		retrograde	16551 Feb 17 09:29	12°♄34'58	
	16548 Sep 12 20:13	0°♄		evening set	16551 Mar 05 10:11	7°♄38'03	
	16548 Oct 06 19:20	0°♄		inferior conj	16551 Mar 10 18:56	4°♄23'01	-4°20'41
asc. node	16548 Oct 11 09:39	5°♄45'24		minimum elong	16551 Mar 11 03:45	4°♄09'14	4°18'17
superior conj	16548 Oct 17 04:21	12°♄59'38	0°14'11	min. Earth dist.	16551 Mar 10 23:48	4°♄15'25	0.28521 AU
minimum elong	16548 Oct 17 00:47	12°♄48'27	0°14'22	morning rise	16551 Mar 16 21:13	0°♄43'14	
behind sun begin	16548 Oct 16 13:13	12°♄12'16			16551 Mar 18 05:27	30°♄	
behind sun end	16548 Oct 17 12:20	13°♄24'38		asc. node	16551 Mar 29 01:38	26°♄24'37	
max. Earth dist.	16548 Oct 17 15:24	13°♄34'14	1.71638 AU	direct	16551 Apr 01 00:15	26°♄14'11	
	16548 Oct 30 18:20	0°♄		greatest brilliancy	16551 Apr 11 18:50	28°♄21'30	-4.8m
	16548 Nov 23 18:15	0°♄			16551 Apr 15 14:43	0°♄	
evening rise	16548 Nov 24 17:27	1°♄12'23		morning max el	16551 May 20 06:53	27°♄07'33	45°57'36
	16548 Dec 17 20:47	0°♄			16551 May 23 04:41	0°♄	
	16549 Jan 11 04:18	0°♄			16551 Jun 20 06:43	0°♄	
desc. node	16549 Jan 31 02:23	24°♄18'31			16551 Jul 16 07:00	0°♄	
	16549 Feb 04 19:05	0°♄		desc. node	16551 Jul 19 02:17	3°♄18'45	
	16549 Mar 01 18:59	0°♄			16551 Aug 10 08:31	0°♁	
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	16549 Apr 22 13:21	0°♄			16551 Sep 28 04:33	0°♄	
	16549 May 20 16:15	0°♁			16551 Oct 22 08:04	0°♄	
asc. node	16549 May 23 21:10	3°♁10'44		asc. node	16551 Nov 08 22:29	21°♄55'33	
evening max el	16549 May 23 20:27	3°♁08'58	46°11'55		16551 Nov 15 09:56	0°♄	
	16549 Jun 26 09:35	0°♄		morning set	16551 Nov 20 19:52	6°♄45'03	
greatest brilliancy	16549 Jul 03 01:51	2°♄54'03	-4.8m		16551 Dec 09 11:09	0°♄	
retrograde	16549 Jul 12 09:52	4°♄32'20		superior conj	16551 Dec 28 22:24	24°♄16'01	1°26'07
	16549 Jul 27 15:39	30°♄		minimum elong	16551 Dec 28 19:07	24°♄05'46	1°26'40
evening set	16549 Jul 30 02:07	28°♁35'33					

max. Earth dist.	16551 Dec 31 05:57	27°  08'57	1.72346 AU	morning max el	16554 Jul 30 11:13	7°  06'27	46°38'10
	16552 Jan 02 12:55	0° 		desc. node	16554 Aug 15 12:45	23°  52'41	
	16552 Jan 26 16:53	0° 			16554 Aug 21 02:46	0° 	
evening rise	16552 Feb 04 09:39	10°  45'32			16554 Sep 16 07:55	0° 	
	16552 Feb 20 00:23	0° 			16554 Oct 11 12:16	0° 	
desc. node	16552 Feb 28 15:38	10°  Y36'21			16554 Nov 05 05:21	0° 	
	16552 Mar 15 11:57	0° 			16554 Nov 29 16:37	0° 	
	16552 Apr 09 03:19	0° 		asc. node	16554 Dec 06 10:53	8°  X19'25	
	16552 May 03 22:42	0° 			16554 Dec 24 00:21	0° 	
	16552 May 29 00:24	0° 			16555 Jan 17 06:05	0° 	
asc. node	16552 Jun 20 08:50	26°  Q14'32		morning set	16555 Jan 30 12:41	16°  X26'53	
	16552 Jun 23 14:52	0° 			16555 Feb 10 11:21	0° 	
	16552 Jul 20 09:52	0° 			16555 Mar 06 17:34	0° 	
evening max el	16552 Aug 04 20:18	16°  Q03'23	46°34'22				
	16552 Aug 19 18:25	0° 		superior conj	16555 Mar 08 13:30	2°  Y15'35	0°45'37
greatest brilliancy	16552 Sep 13 10:49	16°  M11'37	-4.9m	minimum elong	16555 Mar 08 22:25	2°  Y43'05	0°45'15
retrograde	16552 Sep 23 22:52	18°  M14'56		max. Earth dist.	16555 Mar 10 01:45	4°  Y07'28	1.73047 AU
evening set	16552 Oct 08 07:49	14°  M10'03		desc. node	16555 Mar 28 05:01	26°  Y29'45	
desc. node	16552 Oct 10 07:02	13°  M04'57			16555 Mar 31 01:15	0° 	
inferior conj	16552 Oct 14 15:24	10°  M29'41	-1°08'17	evening rise	16555 Apr 15 12:38	19°  B03'30	
minimum elong	16552 Oct 14 12:44	10°  M33'44	1°07'04		16555 Apr 24 09:53	0° 	
min. Earth dist.	16552 Oct 14 10:35	10°  M37'00	0.26969 AU		16555 May 18 18:45	0° 	
morning rise	16552 Oct 20 17:59	6°  M56'47			16555 Jun 12 03:59	0° 	
direct	16552 Nov 04 10:07	2°  M45'40			16555 Jul 06 15:05	0° 	
greatest brilliancy	16552 Nov 14 05:01	4°  M32'31	-4.8m	asc. node	16555 Jul 18 21:26	14°  M57'40	
	16552 Dec 19 22:00	0° 			16555 Jul 31 06:55	0° 	
morning max el	16552 Dec 24 03:09	4°  X02'57	46°20'40		16555 Aug 25 08:27	0° 	
	16553 Jan 18 00:31	0° 			16555 Sep 20 06:12	0° 	
asc. node	16553 Jan 31 07:18	14°  B47'20		evening max el	16555 Oct 17 02:09	28°  X47'07	46°36'55
	16553 Feb 13 14:08	0° 			16555 Oct 18 07:23	0° 	
	16553 Mar 11 02:40	0° 		desc. node	16555 Nov 07 17:50	18°  B17'06	
	16553 Apr 05 02:23	0° 		greatest brilliancy	16555 Nov 25 15:28	28°  B56'19	-4.8m
	16553 Apr 29 18:47	0° 			16555 Nov 28 22:17	0° 	
desc. node	16553 May 23 04:59	28°  B42'52		retrograde	16555 Dec 06 06:01	1°  X00'51	
	16553 May 24 06:04	0° 			16555 Dec 13 08:49	30°  R3	
	16553 Jun 17 13:02	0° 		evening set	16555 Dec 24 09:43	24°  B50'10	
morning set	16553 Jun 22 23:41	6°  B45'04		min. Earth dist.	16555 Dec 26 22:32	23°  B17'02	0.28175 AU
	16553 Jul 11 16:16	0° 		inferior conj	16555 Dec 27 12:40	22°  B55'09	-8°54'06
max. Earth dist.	16553 Jul 30 08:48	23°  Q19'40	1.71818 AU	minimum elong	16555 Dec 27 08:58	23°  B00'53	8°53'20
				morning rise	16555 Dec 30 08:20	21°  B11'21	
superior conj	16553 Aug 01 12:14	26°  Q00'21	-1°21'38	direct	16556 Jan 17 15:04	14°  B58'35	
minimum elong	16553 Aug 01 20:30	26°  Q26'14	1°21'51	greatest brilliancy	16556 Jan 27 08:38	16°  B41'57	-4.8m
	16553 Aug 04 16:53	0° 			16556 Feb 18 10:45	0° 	
	16553 Aug 28 16:13	0° 		asc. node	16556 Feb 28 17:26	8°  X50'08	
evening rise	16553 Sep 10 12:55	16°  Q06'04		morning max el	16556 Mar 06 16:02	15°  X22'54	45°46'43
asc. node	16553 Sep 12 22:06	19°  Q05'01			16556 Mar 21 01:51	0° 	
	16553 Sep 21 15:32	0° 			16556 Apr 17 07:30	0° 	
	16553 Oct 15 16:08	0° 			16556 May 13 02:43	0° 	
	16553 Nov 08 19:53	0° 			16556 Jun 07 04:49	0° 	
	16553 Dec 03 06:00	0° 		desc. node	16556 Jun 19 17:00	15°  B10'21	
	16553 Dec 28 03:15	0° 			16556 Jul 01 20:11	0° 	
desc. node	16554 Jan 02 15:20	6°  X31'43			16556 Jul 26 04:03	0° 	
	16554 Jan 22 18:38	0° 			16556 Aug 19 06:57	0° 	
	16554 Feb 18 17:33	0° 		morning set	16556 Sep 05 02:41	21°  M00'41	
evening max el	16554 Mar 10 23:07	20°  B44'32	46°01'12		16556 Sep 12 07:08	0° 	
	16554 Mar 20 22:15	0° 			16556 Oct 06 06:13	0° 	
greatest brilliancy	16554 Apr 19 00:02	19°  B28'24	-4.8m	asc. node	16556 Oct 10 11:25	5°  M16'55	
asc. node	16554 Apr 25 12:08	21°  B05'59					
retrograde	16554 Apr 29 03:02	21°  B21'09		superior conj	16556 Oct 14 17:12	10°  M35'36	0°10'26
evening set	16554 May 14 15:01	16°  B39'22		minimum elong	16556 Oct 14 14:32	10°  M27'13	0°10'39
inferior conj	16554 May 20 06:18	13°  B13'29	5°43'03	behind sun begin	16556 Oct 13 19:35	9°  M27'54	
minimum elong	16554 May 19 20:01	13°  B29'42	5°40'00	behind sun end	16556 Oct 15 09:28	11°  M26'33	
min. Earth dist.	16554 May 20 02:21	13°  B19'43	0.28297 AU	max. Earth dist.	16556 Oct 14 23:13	10°  M54'25	1.71628 AU
morning rise	16554 May 25 00:57	10°  B17'17			16556 Oct 30 05:12	0° 	
direct	16554 Jun 10 10:57	5°  B03'37		evening rise	16556 Nov 22 08:05	28°  X54'20	
greatest brilliancy	16554 Jun 20 13:12	6°  B57'44	-4.8m		16556 Nov 23 05:08	0° 	
	16554 Jul 23 03:05	0° 			16556 Dec 17 07:45	0° 	

	16557 Jan 10 15:27	0° H			16559 Jun 19 21:55	0° II	
desc. node	16557 Jan 30 04:11	23° H 49'20			16559 Jul 15 20:13	0° G	
	16557 Feb 04 06:36	0° Y		desc. node	16559 Jul 18 04:08	2° G 45'27	
	16557 Mar 01 07:10	0° B			16559 Aug 09 20:47	0° Q	
	16557 Mar 26 19:58	0° II			16559 Sep 03 09:33	0° M	
	16557 Apr 22 05:03	0° G			16559 Sep 27 15:59	0° A	
	16557 May 20 14:12	0° Q			16559 Oct 21 19:15	0° M	
evening max el	16557 May 21 09:41	0° Q 47'54 46°11'07		asc. node	16559 Nov 08 00:26	21° M 27'15	
asc. node	16557 May 22 23:07	2° Q 19'12			16559 Nov 14 20:55	0° A	
	16557 Jun 29 03:16	0° M		morning set	16559 Nov 18 09:42	4° A 24'20	
greatest brilliancy	16557 Jun 30 14:52	0° M 32'07 -4.8m			16559 Dec 08 22:00	0° Z	
retrograde	16557 Jul 09 23:36	2° M 11'07					
	16557 Jul 20 08:50	30° R Q		superior conj	16559 Dec 26 13:52	22° Z 00'59 1°25'29	
evening set	16557 Jul 27 18:20	26° Q 09'29		minimum elong	16559 Dec 26 09:46	21° Z 48'14 1°26'02	
inferior conj	16557 Jul 30 18:39	24° Q 18'34 8°34'34		max. Earth dist.	16559 Dec 28 22:49	24° Z 58'19 1.72315 AU	
minimum elong	16557 Jul 31 01:41	24° Q 07'40 8°33'25			16560 Jan 01 23:44	0° \approx	
min. Earth dist.	16557 Jul 31 11:50	23° Q 51'55 0.27647 AU			16560 Jan 26 03:43	0° H	
morning rise	16557 Aug 03 08:51	22° Q 06'20		evening rise	16560 Feb 02 01:12	8° H 31'45	
direct	16557 Aug 20 17:08	16° Q 16'13			16560 Feb 19 11:20	0° Y	
greatest brilliancy	16557 Aug 31 00:56	18° Q 16'14 -4.9m		desc. node	16560 Feb 27 17:25	10° Y 08'07	
desc. node	16557 Sep 11 22:43	24° Q 34'12			16560 Mar 14 23:05	0° B	
	16557 Sep 19 08:29	0° M			16560 Apr 08 14:47	0° II	
morning max el	16557 Oct 10 04:26	18° M 57'52 46°54'51			16560 May 03 10:42	0° G	
	16557 Oct 20 20:45	0° A			16560 May 28 13:22	0° Q	
	16557 Nov 16 22:20	0° M		asc. node	16560 Jun 19 10:44	25° Q 38'24	
	16557 Dec 12 15:56	0° A			16560 Jun 23 05:34	0° M	
asc. node	16558 Jan 02 22:20	25° A 23'01			16560 Jul 20 04:29	0° A	
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	16558 Jan 31 11:59	0° \approx			16560 Aug 20 04:00	0° M	
	16558 Feb 25 00:29	0° H		greatest brilliancy	16560 Sep 11 00:58	13° M 47'42 -4.9m	
	16558 Mar 21 10:24	0° Y		retrograde	16560 Sep 21 11:55	15° M 49'28	
morning set	16558 Apr 09 15:53	23° Y 40'33		evening set	16560 Oct 05 20:58	11° M 44'51	
	16558 Apr 14 19:02	0° B		desc. node	16560 Oct 09 09:03	9° M 45'52	
desc. node	16558 Apr 24 18:14	12° B 17'38		inferior conj	16560 Oct 12 04:01	8° M 04'49 -0°43'54	
	16558 May 09 02:23	0° II		minimum elong	16560 Oct 12 02:18	8° M 07'26 0°43'01	
max. Earth dist.	16558 May 16 03:36	8° II 43'11 1.72779 AU		min. Earth dist.	16560 Oct 12 00:29	8° M 10'12 0.26954 AU	
				morning rise	16560 Oct 18 07:59	4° M 29'52	
superior conj	16558 May 18 03:13	11° II 10'29 -0°53'12		direct	16560 Nov 01 23:06	0° M 20'59	
minimum elong	16558 May 17 16:46	10° II 38'09 0°53'20		greatest brilliancy	16560 Nov 11 17:59	2° M 07'48 -4.8m	
	16558 Jun 02 07:57	0° G			16560 Dec 19 22:41	0° A	
evening rise	16558 Jun 25 19:56	29° G 11'02		morning max el	16560 Dec 21 16:10	1° A 40'40 46°22'10	
	16558 Jun 26 11:42	0° Q			16561 Jan 17 17:07	0° Z	
	16558 Jul 20 14:27	0° M		asc. node	16561 Jan 30 09:09	14° Z 10'18	
	16558 Aug 13 17:38	0° A			16561 Feb 13 03:55	0° \approx	
asc. node	16558 Aug 15 10:28	2° A 06'43			16561 Mar 10 15:05	0° H	
	16558 Sep 06 22:58	0° M			16561 Apr 04 14:03	0° Y	
	16558 Oct 01 08:55	0° A			16561 Apr 29 05:59	0° B	
	16558 Oct 26 04:21	0° Z		desc. node	16561 May 22 06:54	28° B 15'02	
	16558 Nov 20 19:05	0° \approx			16561 May 23 17:01	0° II	
desc. node	16558 Dec 05 05:05	16° \approx 09'16			16561 Jun 16 23:51	0° G	
	16558 Dec 18 04:11	0° H		morning set	16561 Jun 20 12:48	4° G 23'24	
evening max el	16558 Dec 27 14:27	9° H 29'55 46°16'44			16561 Jul 11 03:03	0° Q	
	16559 Jan 20 09:58	0° Y		max. Earth dist.	16561 Jul 27 17:59	20° Q 44'46 1.71843 AU	
greatest brilliancy	16559 Feb 04 23:21	8° Y 30'25 -4.8m					
retrograde	16559 Feb 15 01:37	10° Y 22'08		superior conj	16561 Jul 30 01:04	23° Q 36'49 -1°22'59	
evening set	16559 Mar 03 04:22	5° Y 21'21		minimum elong	16561 Jul 30 08:34	24° Q 00'16 1°23'15	
inferior conj	16559 Mar 08 10:28	2° Y 09'59 -4°39'08			16561 Aug 04 03:40	0° M	
minimum elong	16559 Mar 08 19:44	1° Y 55'31 4°36'38			16561 Aug 28 03:03	0° A	
min. Earth dist.	16559 Mar 08 14:58	2° Y 02'56 0.28527 AU		evening rise	16561 Sep 08 01:17	13° A 40'29	
	16559 Mar 11 22:50	30° R H		asc. node	16561 Sep 11 23:59	18° A 36'45	
morning rise	16559 Mar 14 11:06	28° H 32'53			16561 Sep 21 02:29	0° M	
asc. node	16559 Mar 28 03:31	24° H 04'14			16561 Oct 15 03:15	0° A	
direct	16559 Mar 29 16:16	24° H 01'25			16561 Nov 08 07:15	0° Z	
greatest brilliancy	16559 Apr 09 09:48	26° H 08'13 -4.8m			16561 Dec 02 17:46	0° \approx	
	16559 Apr 17 10:06	0° Y			16561 Dec 27 15:46	0° H	
morning max el	16559 May 17 23:03	24° Y 55'54 45°56'30		desc. node	16562 Jan 01 17:07	5° H 59'22	
	16559 May 23 01:17	0° B			16562 Jan 22 08:34	0° Y	

	16562 Feb 18 10:43	0°♄			16564 Oct 05 16:47	0°♍		
evening max el	16562 Mar 08 13:39	18°♄29'15	46°01'19	asc. node	16564 Oct 09 13:19	4°♍49'51		
	16562 Mar 21 02:45	0°♅						
greatest brilliancy	16562 Apr 16 15:38	17°♅14'35	-4.8m	superior conj	16564 Oct 12 06:26	8°♍13'45	0°06'42	
asc. node	16562 Apr 24 14:10	19°♅01'17		minimum elong	16564 Oct 12 04:40	8°♍08'15	0°06'57	
retrograde	16562 Apr 26 17:34	19°♅06'39		behind sun begin	16564 Oct 11 05:57	6°♍57'04		
evening set	16562 May 12 03:50	14°♅28'20		behind sun end	16564 Oct 13 03:24	9°♍19'25		
inferior conj	16562 May 17 21:40	10°♅59'00	5°25'59	max. Earth dist.	16564 Oct 12 09:59	8°♍24'52	1.71618 AU	
minimum elong	16562 May 17 11:36	11°♅14'52	5°22'56		16564 Oct 29 15:44	0°♆		
min. Earth dist.	16562 May 17 18:01	11°♅04'44	0.28300 AU	evening rise	16564 Nov 19 23:05	26°♆38'29		
morning rise	16562 May 22 19:15	7°♅58'17			16564 Nov 22 15:41	0°♆		
direct	16562 Jun 08 01:50	2°♅49'07			16564 Dec 16 18:25	0°♇		
greatest brilliancy	16562 Jun 18 05:30	4°♅43'57	-4.8m		16565 Jan 10 02:22	0°♈		
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morning max el	16562 Jul 28 00:39	4°♉46'02	46°36'57		16565 Feb 03 17:56	0°♉		
desc. node	16562 Aug 14 14:35	23°♉10'34			16565 Feb 28 19:11	0°♊		
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	16562 Oct 11 00:46	0°♌		evening max el	16565 May 18 23:51	28°♋30'15	46°10'32	
	16562 Nov 04 17:09	0°♍			16565 May 20 12:40	0°♌		
	16562 Nov 29 03:58	0°♎		asc. node	16565 May 22 00:58	1°♌27'29		
asc. node	16562 Dec 05 12:41	7°♎50'21		greatest brilliancy	16565 Jun 28 03:30	28°♌11'16	-4.8m	
	16562 Dec 23 11:23	0°♏		retrograde	16565 Jul 07 13:42	29°♌51'15		
	16563 Jan 16 16:52	0°♐		evening set	16565 Jul 25 10:25	23°♌45'15		
morning set	16563 Jan 28 04:55	14°♐15'21		inferior conj	16565 Jul 28 08:25	21°♌57'45	8°41'35	
	16563 Feb 09 21:59	0°♑		minimum elong	16565 Jul 28 14:42	21°♌47'59	8°40'35	
				min. Earth dist.	16565 Jul 29 00:43	21°♌32'26	0.27688 AU	
superior conj	16563 Mar 06 05:31	0°♒04'15	0°48'31	morning rise	16565 Jul 31 18:52	19°♌51'10		
minimum elong	16563 Mar 06 14:46	0°♒32'47	0°48'10	direct	16565 Aug 18 07:32	13°♌54'44		
	16563 Mar 06 04:09	0°♓		greatest brilliancy	16565 Aug 28 14:15	15°♌54'15	-4.9m	
max. Earth dist.	16563 Mar 07 17:49	1°♓56'17	1.73034 AU	desc. node	16565 Sep 11 00:43	23°♌14'15		
desc. node	16563 Mar 27 06:52	26°♓02'47			16565 Sep 19 20:01	0°♔		
	16563 Mar 30 11:52	0°♈		morning max el	16565 Oct 07 19:58	16°♔40'57	46°55'18	
evening rise	16563 Apr 13 04:14	16°♈50'55			16565 Oct 20 15:28	0°♉		
	16563 Apr 23 20:37	0°♊			16565 Nov 16 12:57	0°♊		
	16563 May 18 05:41	0°♋			16565 Dec 12 04:42	0°♋		
	16563 Jun 11 15:13	0°♌		asc. node	16566 Jan 02 00:10	24°♋52'50		
	16563 Jul 06 02:44	0°♍			16566 Jan 06 06:06	0°♌		
asc. node	16563 Jul 17 23:11	14°♍26'36			16566 Jan 30 23:07	0°♍		
	16563 Jul 30 19:17	0°♎			16566 Feb 24 11:16	0°♈		
	16563 Aug 24 22:02	0°♏			16566 Mar 20 20:59	0°♉		
	16563 Sep 19 22:15	0°♐		morning set	16566 Apr 07 07:46	21°♉29'19		
evening max el	16563 Oct 14 15:12	26°♐24'29	46°37'11		16566 Apr 14 05:30	0°♊		
	16563 Oct 18 06:24	0°♑		desc. node	16566 Apr 23 20:04	11°♊51'03		
desc. node	16563 Nov 06 19:44	17°♑06'04			16566 May 08 12:48	0°♋		
greatest brilliancy	16563 Nov 23 05:47	26°♑38'22	-4.8m	max. Earth dist.	16566 May 13 22:17	6°♋40'10	1.72804 AU	
retrograde	16563 Dec 03 20:28	28°♑43'34						
evening set	16563 Dec 21 21:15	22°♑37'27		superior conj	16566 May 15 17:30	8°♋53'52	-0°50'16	
min. Earth dist.	16563 Dec 24 12:29	21°♑00'56	0.28139 AU	minimum elong	16566 May 15 07:22	8°♋22'32	0°50'24	
inferior conj	16563 Dec 25 03:03	20°♑38'24	-8°50'07		16566 Jun 01 18:24	0°♌		
minimum elong	16563 Dec 24 22:29	20°♑45'28	8°49'15	evening rise	16566 Jun 23 09:17	26°♌50'32		
morning rise	16563 Dec 27 23:50	18°♑53'04			16566 Jun 25 22:15	0°♍		
direct	16564 Jan 15 04:31	12°♑42'12			16566 Jul 20 01:12	0°♎		
greatest brilliancy	16564 Jan 24 22:36	14°♑25'46	-4.8m		16566 Aug 13 04:37	0°♏		
	16564 Feb 18 19:34	0°♐		asc. node	16566 Aug 14 12:22	1°♏38'28		
asc. node	16564 Feb 27 19:21	7°♐56'06			16566 Sep 06 10:16	0°♑		
morning max el	16564 Mar 04 06:00	13°♐05'58	45°47'22		16566 Sep 30 20:44	0°♒		
	16564 Mar 20 19:38	0°♓			16566 Oct 25 17:02	0°♓		
	16564 Apr 16 21:34	0°♔			16566 Nov 20 09:32	0°♔		
	16564 May 12 15:10	0°♕		desc. node	16566 Dec 04 06:54	15°♔29'56		
	16564 Jun 06 16:27	0°♖			16566 Dec 17 23:09	0°♕		
desc. node	16564 Jun 18 18:44	14°♖41'02		evening max el	16566 Dec 25 06:25	7°♕18'56	46°17'32	
	16564 Jul 01 07:21	0°♗			16567 Jan 21 06:49	0°♖		
	16564 Jul 25 14:56	0°♘		greatest brilliancy	16567 Feb 02 14:19	6°♖18'29	-4.8m	
	16564 Aug 18 17:41	0°♙		retrograde	16567 Feb 12 17:22	8°♖10'22		
morning set	16564 Sep 02 15:26	18°♙37'08		evening set	16567 Feb 28 22:36	3°♖05'50		
	16564 Sep 11 17:46	0°♚		inferior conj	16567 Mar 06 01:57	29°♖58'06	-4°57'04	




































































































































minimum elong	16567 Mar 06 11:35	29° H 43'01	4°54'31	minimum elong	16569 Jul 27 20:13	21° Ω 33'50	1°24'30
	16567 Mar 06 00:44	30° H			16569 Aug 03 14:13	0° H	
min. Earth dist.	16567 Mar 06 06:05	29° H 51'37	0.28536 AU		16569 Aug 27 13:38	0° Ω	
morning rise	16567 Mar 12 00:41	26° H 23'45		evening rise	16569 Sep 05 13:16	11° Ω 14'34	
direct	16567 Mar 27 08:23	21° H 49'52		asc. node	16569 Sep 11 01:49	18° Ω 09'10	
asc. node	16567 Mar 27 05:34	21° H 49'53			16569 Sep 20 13:10	0° H	
greatest brilliancy	16567 Apr 07 00:26	23° H 55'29	-4.8m		16569 Oct 14 14:05	0° H	
	16567 Apr 18 15:01	0° Y			16569 Nov 07 18:21	0° Ω	
morning max el	16567 May 15 14:45	22° Y 44'03	45°55'19		16569 Dec 02 05:17	0° \approx	
	16567 May 22 20:51	0° H			16569 Dec 27 04:02	0° H	
	16567 Jun 19 12:34	0° H		desc. node	16569 Dec 31 18:57	5° H 27'55	
	16567 Jul 15 08:57	0° Ω			16570 Jan 21 22:20	0° Y	
desc. node	16567 Jul 17 06:01	2° Ω 13'34			16570 Feb 18 03:55	0° H	
	16567 Aug 09 08:36	0° Ω		evening max el	16570 Mar 06 03:46	16° H 14'00	46°01'31
	16567 Sep 02 20:50	0° H			16570 Mar 21 08:52	0° H	
	16567 Sep 27 02:56	0° Ω		greatest brilliancy	16570 Apr 14 06:45	15° H 01'09	-4.8m
	16567 Oct 21 05:58	0° H		asc. node	16570 Apr 23 15:56	16° H 52'41	
asc. node	16567 Nov 07 02:11	20° H 59'39		retrograde	16570 Apr 24 08:15	16° H 53'14	
	16567 Nov 14 07:28	0° H		evening set	16570 May 09 16:45	12° H 17'41	
morning set	16567 Nov 15 23:37	2° H 05'12		inferior conj	16570 May 15 13:01	8° H 45'19	5°08'24
	16567 Dec 08 08:26	0° Ω		minimum elong	16570 May 15 03:14	9° H 00'44	5°05'22
				min. Earth dist.	16570 May 15 09:40	8° H 50'36	0.28310 AU
superior conj	16567 Dec 24 05:30	19° Ω 47'51	1°24'43	morning rise	16570 May 20 13:30	5° H 40'22	
minimum elong	16567 Dec 24 00:39	19° Ω 32'44	1°25'15	direct	16570 Jun 05 16:37	0° H 35'09	
max. Earth dist.	16567 Dec 26 15:36	22° Ω 48'49	1.72280 AU	greatest brilliancy	16570 Jun 15 22:07	2° H 31'15	-4.8m
	16568 Jan 01 10:06	0° \approx			16570 Jul 23 02:49	0° Ω	
	16568 Jan 25 14:05	0° H		morning max el	16570 Jul 25 14:48	2° Ω 27'45	46°35'35
evening rise	16568 Jan 30 16:53	6° H 19'47		desc. node	16570 Aug 13 16:35	22° Ω 29'36	
	16568 Feb 18 21:48	0° Y			16570 Aug 20 11:10	0° Ω	
desc. node	16568 Feb 26 19:19	9° Y 41'37			16570 Sep 15 11:12	0° H	
	16568 Mar 14 09:48	0° H			16570 Oct 10 13:06	0° Ω	
	16568 Apr 08 01:53	0° H			16570 Nov 04 04:46	0° H	
	16568 May 02 22:27	0° Ω			16570 Nov 28 15:07	0° H	
	16568 May 28 02:06	0° Ω		asc. node	16570 Dec 04 14:28	7° H 21'48	
asc. node	16568 Jun 18 12:31	25° Ω 02'41			16570 Dec 22 22:13	0° Ω	
	16568 Jun 22 20:08	0° H			16571 Jan 16 03:28	0° \approx	
	16568 Jul 19 23:13	0° Ω		morning set	16571 Jan 25 21:09	12° \approx 04'11	
evening max el	16568 Jul 31 00:21	11° Ω 21'16	46°32'52		16571 Feb 09 08:28	0° H	
	16568 Aug 20 16:17	0° H					
greatest brilliancy	16568 Sep 08 15:38	11° H 25'39	-4.9m	superior conj	16571 Mar 03 21:42	27° H 53'45	0°51'19
retrograde	16568 Sep 19 00:27	13° H 25'19		minimum elong	16571 Mar 04 07:14	28° H 23'11	0°51'00
evening set	16568 Oct 03 10:22	9° H 20'33		max. Earth dist.	16571 Mar 05 10:44	29° H 48'05	1.73021 AU
desc. node	16568 Oct 08 10:58	6° H 26'34			16571 Mar 05 14:36	0° Y	
inferior conj	16568 Oct 09 16:42	5° H 41'20	-0°19'32	desc. node	16571 Mar 26 08:42	25° Y 36'06	
minimum elong	16568 Oct 09 15:56	5° H 42'30	0°18'59		16571 Mar 29 22:21	0° H	
min. Earth dist.	16568 Oct 09 14:45	5° H 44'18	0.26940 AU	evening rise	16571 Apr 10 20:04	14° H 39'34	
morning rise	16568 Oct 15 21:45	2° H 04'27			16571 Apr 23 07:14	0° H	
	16568 Oct 20 08:20	30° H			16571 May 17 16:31	0° Ω	
direct	16568 Oct 30 11:33	27° Ω 57'28			16571 Jun 11 02:22	0° Ω	
greatest brilliancy	16568 Nov 09 07:31	29° Ω 44'51	-4.8m		16571 Jul 05 14:24	0° H	
	16568 Nov 10 00:20	0° H		asc. node	16571 Jul 17 01:06	13° H 55'58	
morning max el	16568 Dec 19 04:40	29° H 18'06	46°23'43		16571 Jul 30 07:44	0° Ω	
	16568 Dec 19 21:46	0° H			16571 Aug 24 11:49	0° H	
	16569 Jan 17 08:59	0° Ω			16571 Sep 19 14:41	0° H	
asc. node	16569 Jan 29 11:04	13° Ω 34'57		evening max el	16571 Oct 12 04:58	24° H 03'27	46°37'42
	16569 Feb 12 17:09	0° \approx			16571 Oct 18 06:37	0° Ω	
	16569 Mar 10 03:01	0° H		desc. node	16571 Nov 05 21:33	15° Ω 52'35	
	16569 Apr 04 01:16	0° Y		greatest brilliancy	16571 Nov 20 19:30	24° Ω 19'25	-4.8m
	16569 Apr 28 16:49	0° H		retrograde	16571 Dec 01 11:20	26° Ω 26'02	
desc. node	16569 May 21 08:37	27° H 47'33		evening set	16571 Dec 19 08:24	20° Ω 24'44	
	16569 May 23 03:40	0° H		min. Earth dist.	16571 Dec 22 01:59	18° Ω 44'59	0.28099 AU
	16569 Jun 16 10:25	0° Ω		inferior conj	16571 Dec 22 17:20	18° Ω 21'18	-8°45'21
morning set	16569 Jun 18 01:34	2° Ω 01'23		minimum elong	16571 Dec 22 11:56	18° Ω 29'40	8°44'21
	16569 Jul 10 13:36	0° Ω		morning rise	16571 Dec 25 15:36	16° Ω 34'02	
max. Earth dist.	16569 Jul 25 01:39	18° Ω 05'56	1.71870 AU	direct	16572 Jan 12 18:11	10° Ω 25'31	
				greatest brilliancy	16572 Jan 22 12:02	12° Ω 09'02	-4.8m
superior conj	16569 Jul 27 13:32	21° Ω 12'57	-1°24'10		16572 Feb 19 01:49	0° \approx	

asc. node	16572 Feb 26 21:21	7°  03'28		16574 Sep 05 21:50	0° 			
morning max el	16572 Mar 01 20:53	10°  51'21	45°48'02	16574 Sep 30 08:52	0° 			
	16572 Mar 20 12:58	0° 		16574 Oct 25 06:10	0° 			
	16572 Apr 16 11:26	0° 		16574 Nov 20 00:37	0° 			
	16572 May 12 03:33	0° 		16574 Dec 03 08:47	14°  49'07			
desc. node	16572 Jun 06 04:03	0° 		16574 Dec 17 19:15	0° 			
	16572 Jun 17 20:38	14°  12'17		16574 Dec 22 22:10	5°  05'56	46°18'19		
	16572 Jun 30 18:31	0° 		16575 Jan 22 12:42	0° 			
	16572 Jul 25 01:52	0° 		16575 Jan 31 06:01	4°  06'06	-4.8m		
morning set	16572 Aug 18 04:29	0° 		retrograde	16575 Feb 10 08:43	5°  05'23		
	16572 Aug 31 03:59	16°  12'36		evening set	16575 Feb 26 16:57	0°  49'14		
	16572 Sep 11 04:31	0° 			16575 Feb 28 02:20	30°  R 		
	16572 Oct 05 03:31	0° 		inferior conj	16575 Mar 03 17:29	27°  04'17	-5°14'31	
asc. node	16572 Oct 08 15:05	4°  12'46		minimum elong	16575 Mar 04 03:26	27°  04'29	5°11'57	
				min. Earth dist.	16575 Mar 03 21:30	27°  04'39	0.28539 AU	
				morning rise	16575 Mar 09 14:03	24°  04'13		
				direct	16575 Mar 25 00:15	19°  04'37		
superior conj	16572 Oct 09 19:07	5°  49'35	0°02'55		16575 Mar 26 07:22	19°  04'39		
minimum elong	16572 Oct 09 18:19	5°  47'03	0°03'10		16575 Apr 04 15:13	21°  04'55	-4.8m	
behind sun begin	16572 Oct 08 17:45	4°  30'06			16575 Apr 19 12:19	0° 		
behind sun end	16572 Oct 10 18:53	7°  04'01			16575 May 13 05:34	20°  04'29	45°54'10	
max. Earth dist.	16572 Oct 09 21:44	5°  57'48	1.71611 AU		16575 May 22 16:10	0° 		
evening rise	16572 Oct 29 02:26	0° 		morning max el	16575 May 22 16:10	0° 		
	16572 Nov 17 13:36	24°  02'31			16575 Jun 19 03:20	0° 		
	16572 Nov 22 02:24	0° 			16575 Jun 19 03:20	0° 		
	16572 Dec 16 05:14	0° 			16575 Jul 14 21:55	0° 		
desc. node	16573 Jan 09 13:25	0° 		desc. node	16575 Jul 16 07:55	1°  04'40	55	
	16573 Jan 28 07:53	22°  05'20			16575 Jul 16 07:55	1°  04'40	55	
	16573 Feb 03 05:25	0° 			16575 Aug 08 20:41	0° 		
	16573 Feb 28 07:23	0° 			16575 Sep 02 08:24	0° 		
evening max el	16573 Mar 25 22:40	0° 			16575 Sep 26 14:11	0° 		
	16573 Apr 21 12:49	0° 		asc. node	16575 Oct 20 16:58	0° 		
	16573 May 16 14:58	26°  09'45	46°09'57	morning set	16575 Nov 06 03:59	20°  13'31		
	16573 May 20 12:16	0° 			16575 Nov 13 13:39	29°  13'45		
asc. node	16573 May 21 02:52	0°  34'38			16575 Nov 13 18:19	0° 		
greatest brilliancy	16573 Jun 25 16:14	25°  05'43	-4.8m		16575 Dec 07 19:12	0° 		
retrograde	16573 Jul 05 03:47	27°  03'12		superior conj	16575 Dec 21 21:05	17°  03'33	1°23'49	
evening set	16573 Jul 23 02:19	21°  02'14		minimum elong	16575 Dec 21 15:30	17°  03'16	1°24'20	
inferior conj	16573 Jul 25 22:20	19°  03'70	8°47'36	max. Earth dist.	16575 Dec 24 06:20	20°  03'31	1.72249 AU	
minimum elong	16573 Jul 26 03:49	19°  02'83	8°46'45		16575 Dec 31 20:51	0° 		
min. Earth dist.	16573 Jul 26 13:34	19°  01'32	0.27727 AU		16576 Jan 25 00:52	0° 		
morning rise	16573 Jul 29 05:14	17°  03'35		evening rise	16576 Jan 28 08:20	4°  05'48		
direct	16573 Aug 15 22:24	11°  03'33			16576 Feb 18 08:42	0° 		
greatest brilliancy	16573 Aug 26 03:22	13°  03'15	-4.9m	desc. node	16576 Feb 25 21:05	9°  04'13		
desc. node	16573 Sep 10 02:37	21°  05'56			16576 Mar 13 20:55	0° 		
	16573 Sep 20 04:40	0° 			16576 Apr 07 13:25	0° 		
	16573 Oct 05 11:09	14°  02'22	46°55'25		16576 May 02 10:37	0° 		
	16573 Oct 20 09:58	0° 			16576 May 27 15:19	0° 		
asc. node	16573 Nov 16 03:42	0° 		asc. node	16576 Jun 17 14:28	24°  02'26	04	
	16573 Dec 11 17:43	0° 			16576 Jun 22 11:17	0° 		
	16574 Jan 01 02:08	24°  02'22	11		16576 Jul 19 18:54	0° 		
	16574 Jan 05 18:07	0° 		evening max el	16576 Jul 28 13:18	8°  05'57	46°32'11	
morning set	16574 Jan 30 10:31	0° 			16576 Aug 21 09:18	0° 		
	16574 Feb 23 22:16	0° 		greatest brilliancy	16576 Sep 06 06:43	9°  03'03	-4.9m	
	16574 Mar 20 07:46	0° 		retrograde	16576 Sep 16 12:59	11°  00'58		
	16574 Apr 04 23:47	19°  04'17	49	evening set	16576 Sep 16 12:59	11°  00'58		
desc. node	16574 Apr 13 16:12	0° 		inferior conj	16576 Oct 01 00:08	6°  05'55	27	
	16574 Apr 22 21:46	11°  08'23	21	minimum elong	16576 Oct 07 05:36	3°  05'17	38	0°04'42
	16574 May 07 23:29	0° 		transit middle	16576 Oct 07 05:47	3°  05'17	20	0°04'56
	16574 May 11 15:17	4°  02'31	18	transit begin	16576 Oct 07 05:47	3°  05'17	20	0°04'56
superior conj	16574 May 13 08:05	6°  02'37	25	transit end	16576 Oct 07 01:54	3°  05'23	16	
	16574 May 12 22:20	6°  07'17	0°47'24	min. Earth dist.	16576 Oct 07 09:41	3°  05'11	24	
	16574 Jun 01 05:08	0° 		desc. node	16576 Oct 07 05:29	3°  05'17	48	0.26928 AU
	16574 Jun 20 22:58	24°  03'30	19		16576 Oct 07 12:45	3°  06'06	43	
evening rise	16574 Jun 25 09:05	0° 		morning rise	16576 Oct 12 20:00	30°  R 		
	16574 Jun 25 09:05	0° 		direct	16576 Oct 13 11:31	29°  05'39	08	
	16574 Jul 19 12:11	0° 		greatest brilliancy	16576 Oct 27 23:44	25°  03'33	27	
	16574 Aug 12 15:50	0° 			16576 Nov 06 21:45	27°  05'22	11	-4.8m
asc. node	16574 Aug 13 14:14	1°  09'27		morning max el	16576 Nov 12 22:02	0° 		
					16576 Dec 16 17:14	26°  05'54	46°25'14	

	16576 Dec 19 20:10	0°♊		asc. node	16579 Jul 16 02:58	13°♎24'29	
	16577 Jan 17 00:55	0°♊			16579 Jul 29 20:28	0°♎	
asc. node	16577 Jan 28 13:00	12°♊58'51			16579 Aug 24 01:57	0°♎	
	16577 Feb 12 06:39	0°♊			16579 Sep 19 07:41	0°♊	
	16577 Mar 09 15:18	0°♋		evening max el	16579 Oct 09 19:48	21°♊44'23	46°38'06
	16577 Apr 03 12:51	0°♌			16579 Oct 18 08:24	0°♊	
	16577 Apr 28 04:00	0°♌		desc. node	16579 Nov 04 23:33	14°♊36'29	
desc. node	16577 May 20 10:31	27°♌19'32		greatest brilliancy	16579 Nov 18 08:50	21°♊59'18	-4.8m
	16577 May 22 14:38	0°♍		retrograde	16579 Nov 29 02:32	24°♊07'38	
morning set	16577 Jun 15 14:26	29°♍38'41		evening set	16579 Dec 16 19:15	18°♊11'35	
	16577 Jun 15 21:18	0°♍		min. Earth dist.	16579 Dec 19 15:13	16°♊28'31	0.28055 AU
	16577 Jul 10 00:28	0°♎		inferior conj	16579 Dec 20 07:34	16°♊03'23	-8°39'42
max. Earth dist.	16577 Jul 22 11:16	15°♎32'07	1.71902 AU	minimum elong	16579 Dec 20 01:22	16°♊12'55	8°38'33
				morning rise	16579 Dec 23 07:40	14°♊13'39	
superior conj	16577 Jul 25 02:10	18°♎48'33	-1°25'13	direct	16580 Jan 10 08:20	8°♊08'14	
minimum elong	16577 Jul 25 08:00	19°♎06'46	1°25'35	greatest brilliancy	16580 Jan 20 00:49	9°♊51'04	-4.8m
	16577 Aug 03 01:06	0°♎			16580 Feb 19 06:11	0°♊	
	16577 Aug 27 00:35	0°♏		asc. node	16580 Feb 25 23:10	6°♊11'08	
evening rise	16577 Sep 03 01:26	8°♏48'08		morning max el	16580 Feb 28 12:11	8°♊37'34	45°48'44
asc. node	16577 Sep 10 03:33	17°♏40'13			16580 Mar 20 06:03	0°♋	
	16577 Sep 20 00:12	0°♏			16580 Apr 16 01:19	0°♌	
	16577 Oct 14 01:15	0°♊			16580 May 11 16:02	0°♌	
	16577 Nov 07 05:45	0°♊			16580 Jun 05 15:48	0°♍	
	16577 Dec 01 17:07	0°♋		desc. node	16580 Jun 16 22:34	13°♍43'03	
	16577 Dec 26 16:41	0°♋			16580 Jun 30 05:50	0°♍	
desc. node	16577 Dec 30 20:54	4°♋55'46			16580 Jul 24 12:56	0°♎	
	16578 Jan 21 12:36	0°♌			16580 Aug 17 15:25	0°♎	
	16578 Feb 17 21:57	0°♌		morning set	16580 Aug 28 16:29	13°♎47'38	
evening max el	16578 Mar 03 18:17	13°♌58'41	46°01'42		16580 Sep 10 15:23	0°♏	
	16578 Mar 21 18:06	0°♍			16580 Oct 04 14:20	0°♏	
greatest brilliancy	16578 Apr 11 21:27	12°♍46'07	-4.8m				
retrograde	16578 Apr 21 23:25	14°♍38'56		superior conj	16580 Oct 07 07:40	3°♍24'39	-0°00'57
asc. node	16578 Apr 22 17:53	14°♍38'13		minimum elong	16580 Oct 07 07:50	3°♍25'11	0°00'40
evening set	16578 May 07 05:55	10°♍05'42		behind sun begin	16580 Oct 06 06:58	2°♍07'15	
inferior conj	16578 May 13 04:23	6°♍30'37	4°50'23	behind sun end	16580 Oct 08 08:43	4°♍43'07	
minimum elong	16578 May 12 18:56	6°♍45'29	4°47'21	max. Earth dist.	16580 Oct 07 11:37	3°♍37'01	1.71605 AU
min. Earth dist.	16578 May 13 01:07	6°♍35'45	0.28318 AU	asc. node	16580 Oct 07 16:54	3°♍53'34	
morning rise	16578 May 18 07:44	3°♍21'45			16580 Oct 28 13:15	0°♊	
	16578 May 25 07:06	30°♎♎		evening rise	16580 Nov 15 04:04	22°♊01'59	
direct	16578 Jun 03 07:43	28°♎20'13			16580 Nov 21 13:15	0°♊	
	16578 Jun 12 18:28	0°♍			16580 Dec 15 16:12	0°♋	
greatest brilliancy	16578 Jun 13 14:33	0°♍17'37	-4.8m		16581 Jan 09 00:37	0°♋	
morning max el	16578 Jul 23 05:50	0°♏11'02	46°34'12	desc. node	16581 Jan 27 09:40	22°♋22'47	
	16578 Jul 23 01:23	0°♏			16581 Feb 02 17:01	0°♌	
desc. node	16578 Aug 12 18:28	21°♏48'00			16581 Feb 27 19:42	0°♌	
	16578 Aug 20 03:10	0°♎			16581 Mar 25 12:18	0°♍	
	16578 Sep 15 00:54	0°♎			16581 Apr 21 05:15	0°♏	
	16578 Oct 10 01:39	0°♏		evening max el	16581 May 14 06:01	23°♏58'48	46°09'09
	16578 Nov 03 16:39	0°♏		asc. node	16581 May 20 04:50	29°♏40'32	
	16578 Nov 28 02:31	0°♊			16581 May 20 13:11	0°♎	
asc. node	16578 Dec 03 16:26	6°♊53'01		greatest brilliancy	16581 Jun 23 05:21	23°♎30'12	-4.8m
	16578 Dec 22 09:16	0°♊		retrograde	16581 Jul 02 17:27	25°♎10'59	
	16579 Jan 15 14:17	0°♋		evening set	16581 Jul 20 17:56	18°♎58'33	
morning set	16579 Jan 23 13:36	9°♋53'01		inferior conj	16581 Jul 23 12:14	17°♎16'08	8°52'49
	16579 Feb 08 19:09	0°♋		minimum elong	16581 Jul 23 16:53	17°♎08'52	8°52'04
				min. Earth dist.	16581 Jul 24 02:34	16°♎53'47	0.27764 AU
superior conj	16579 Mar 01 14:03	25°♋42'57	0°54'02	morning rise	16581 Jul 26 15:46	15°♎19'34	
minimum elong	16579 Mar 01 23:49	26°♋13'07	0°53'45	direct	16581 Aug 13 13:00	9°♎12'23	
max. Earth dist.	16579 Mar 03 05:45	27°♋45'34	1.73012 AU	greatest brilliancy	16581 Aug 23 16:40	11°♎09'27	-4.9m
	16579 Mar 05 01:17	0°♌		desc. node	16581 Sep 09 04:28	20°♎40'37	
desc. node	16579 Mar 25 10:27	25°♌08'25			16581 Sep 20 10:58	0°♎	
	16579 Mar 29 09:07	0°♌		morning max el	16581 Oct 03 01:20	12°♎01'36	46°55'30
evening rise	16579 Apr 08 12:00	12°♌27'38			16581 Oct 20 04:00	0°♏	
	16579 Apr 22 18:08	0°♍			16581 Nov 15 18:14	0°♏	
	16579 May 17 03:37	0°♏			16581 Dec 11 06:34	0°♊	
	16579 Jun 10 13:47	0°♎		asc. node	16581 Dec 31 03:56	23°♊51'13	
	16579 Jul 05 02:19	0°♎			16582 Jan 05 06:02	0°♊	

	16582 Jan 29 21:51	0°≈			16584 Aug 22 07:53	0°ℓ	
	16582 Feb 23 09:14	0°✕		greatest brilliancy	16584 Sep 03 21:11	6°ℓ40'44	-4.9m
	16582 Mar 19 18:30	0°Υ		retrograde	16584 Sep 14 01:23	8°ℓ37'02	
morning set	16582 Apr 02 16:04	17°Υ07'24		evening set	16584 Sep 28 13:55	4°ℓ29'59	
	16582 Apr 13 02:48	0°♂		inferior conj	16584 Oct 04 18:19	0°ℓ54'01	0°29'12
desc. node	16582 Apr 21 23:41	10°♂56'34		minimum elong	16584 Oct 04 19:28	0°ℓ52'15	0°29'05
	16582 May 07 10:04	0°♂		min. Earth dist.	16584 Oct 04 20:00	0°ℓ51'27	0.26925 AU
max. Earth dist.	16582 May 09 07:19	2°♂19'49	1.72851 AU		16584 Oct 06 05:51	30°♂♂	
				desc. node	16584 Oct 06 14:48	29°♂46'28	
superior conj	16582 May 10 22:55	4°♂22'12	-0°44'15	morning rise	16584 Oct 11 00:58	27°♂14'21	
minimum elong	16582 May 10 13:36	3°♂53'25	0°44'21	direct	16584 Oct 25 11:51	23°♂09'12	
	16582 May 31 15:46	0°♂		greatest brilliancy	16584 Nov 04 12:05	24°♂59'53	-4.8m
evening rise	16582 Jun 18 12:45	22°♂10'38			16584 Nov 14 16:11	0°ℓ	
	16582 Jun 24 19:51	0°♂		morning max el	16584 Dec 14 06:21	24°ℓ33'18	46°26'51
	16582 Jul 18 23:08	0°♂			16584 Dec 19 17:29	0°♂	
	16582 Aug 12 03:02	0°♂			16585 Jan 16 16:19	0°♂	
asc. node	16582 Aug 12 15:57	0°♂40'00		asc. node	16585 Jan 27 14:51	12°♂23'41	
	16582 Sep 05 09:23	0°ℓ			16585 Feb 11 19:43	0°≈	
	16582 Sep 29 21:00	0°♂			16585 Mar 09 03:11	0°✕	
	16582 Oct 24 19:18	0°♂			16585 Apr 03 00:05	0°Υ	
	16582 Nov 19 15:48	0°≈			16585 Apr 27 14:51	0°♂	
desc. node	16582 Dec 02 10:44	14°≈08'22		desc. node	16585 May 19 12:24	26°♂52'29	
	16582 Dec 17 15:53	0°✕			16585 May 22 01:17	0°♂	
evening max el	16582 Dec 20 12:55	2°✕50'43	46°19'01	morning set	16585 Jun 13 03:35	27°♂18'03	
	16583 Jan 24 08:22	0°Υ			16585 Jun 15 07:50	0°♂	
greatest brilliancy	16583 Jan 28 22:00	1°Υ54'09	-4.8m		16585 Jul 09 10:56	0°♂	
retrograde	16583 Feb 07 23:33	3°Υ44'34		max. Earth dist.	16585 Jul 20 00:12	13°♂09'59	1.71931 AU
	16583 Feb 21 19:45	30°♂♂					
evening set	16583 Feb 24 11:16	28°♂32'37		superior conj	16585 Jul 22 15:05	16°♂26'16	-1°26'06
inferior conj	16583 Mar 01 08:56	25°♂32'44	-5°31'38	minimum elong	16585 Jul 22 20:01	16°♂41'40	1°26'29
minimum elong	16583 Mar 01 19:08	25°♂16'45	5°29'03		16585 Aug 02 11:35	0°♂	
min. Earth dist.	16583 Mar 01 13:06	25°♂26'12	0.28542 AU		16585 Aug 26 11:07	0°♂	
morning rise	16583 Mar 07 03:06	22°♂04'15		evening rise	16585 Aug 31 13:47	6°♂23'37	
direct	16583 Mar 22 15:31	17°♂25'14		asc. node	16585 Sep 09 05:26	17°♂12'54	
asc. node	16583 Mar 25 09:18	17°♂33'58			16585 Sep 19 10:52	0°ℓ	
greatest brilliancy	16583 Apr 02 06:25	19°♂29'06	-4.8m		16585 Oct 13 12:07	0°♂	
	16583 Apr 20 03:48	0°Υ			16585 Nov 06 16:53	0°♂	
morning max el	16583 May 10 19:38	18°Υ12'53	45°53'15		16585 Dec 01 04:42	0°≈	
	16583 May 22 10:41	0°♂			16585 Dec 26 05:07	0°✕	
	16583 Jun 18 17:40	0°♂		desc. node	16585 Dec 29 22:41	4°♂23'56	
	16583 Jul 14 10:35	0°♂			16586 Jan 21 02:43	0°Υ	
desc. node	16583 Jul 15 09:46	1°♂08'57			16586 Feb 17 16:04	0°♂	
	16583 Aug 08 08:31	0°♂		evening max el	16586 Mar 01 09:21	11°♂45'50	46°02'00
	16583 Sep 01 19:47	0°♂			16586 Mar 22 06:05	0°♂	
	16583 Sep 26 01:15	0°♂		greatest brilliancy	16586 Apr 09 11:36	10°♂31'30	-4.8m
	16583 Oct 20 03:48	0°ℓ		retrograde	16586 Apr 19 14:53	12°♂25'25	
asc. node	16583 Nov 05 05:55	20°ℓ03'49		asc. node	16586 Apr 21 19:54	12°♂19'32	
morning set	16583 Nov 11 03:14	27°ℓ24'46		evening set	16586 May 04 19:11	7°♂54'19	
	16583 Nov 13 04:59	0°♂		inferior conj	16586 May 10 19:37	4°♂16'37	4°31'46
	16583 Dec 07 05:46	0°♂		minimum elong	16586 May 10 10:35	4°♂30'49	4°28'48
				min. Earth dist.	16586 May 10 16:12	4°♂21'59	0.28325 AU
superior conj	16583 Dec 19 12:23	15°♂18'47	1°22'47	morning rise	16586 May 16 01:48	1°♂04'05	
minimum elong	16583 Dec 19 06:05	14°♂59'08	1°23'16		16586 May 18 00:10	30°♂♂	
max. Earth dist.	16583 Dec 21 19:20	18°♂10'00	1.72217 AU	direct	16586 May 31 23:16	26°♂06'07	
	16583 Dec 31 07:22	0°≈		greatest brilliancy	16586 Jun 11 06:26	28°♂04'19	-4.8m
	16584 Jan 24 11:25	0°✕			16586 Jun 15 18:14	0°♂	
evening rise	16584 Jan 25 23:43	1°♂52'16		morning max el	16586 Jul 20 21:30	27°♂57'15	46°32'58
	16584 Feb 17 19:22	0°Υ			16586 Jul 22 22:36	0°♂	
desc. node	16584 Feb 24 22:52	8°Υ45'58		desc. node	16586 Aug 11 20:19	21°♂08'04	
	16584 Mar 13 07:50	0°♂			16586 Aug 19 18:27	0°♂	
	16584 Apr 07 00:43	0°♂			16586 Sep 14 14:00	0°♂	
	16584 May 01 22:32	0°♂			16586 Oct 09 13:41	0°♂	
	16584 May 27 04:17	0°♂			16586 Nov 03 04:03	0°ℓ	
asc. node	16584 Jun 16 16:21	23°♂50'03			16586 Nov 27 13:31	0°♂	
	16584 Jun 22 02:16	0°♂		asc. node	16586 Dec 02 18:12	6°♂24'47	
	16584 Jul 19 14:50	0°♂			16586 Dec 21 19:58	0°♂	
evening max el	16584 Jul 26 01:32	6°♂32'06	46°31'24		16587 Jan 15 00:47	0°≈	

morning set	16587 Jan 21 05:46	7° \approx 41'54		inferior conj	16589 Jul 21 02:14	14° Ω 56'12	8°57'04
	16587 Feb 08 05:32	0° \mathcal{H}		minimum elong	16589 Jul 21 06:01	14° Ω 50'16	8°56'24
				min. Earth dist.	16589 Jul 21 15:58	14° Ω 34'44	0.27800 AU
superior conj	16587 Feb 27 06:07	23° \mathcal{H} 32'18	0°56'42	morning rise	16589 Jul 24 02:45	13° Ω 03'54	
minimum elong	16587 Feb 27 16:03	24° \mathcal{H} 02'59	0°56'26	direct	16589 Aug 11 03:11	6° Ω 51'58	
max. Earth dist.	16587 Mar 01 01:48	25° \mathcal{H} 47'18	1.72998 AU	greatest brilliancy	16589 Aug 21 06:38	8° Ω 48'24	-4.9m
	16587 Mar 04 11:38	0° Υ		desc. node	16589 Sep 08 06:30	19° Ω 27'58	
desc. node	16587 Mar 24 12:20	24° Υ 42'11			16589 Sep 20 15:00	0° \mathcal{M}	
	16587 Mar 28 19:32	0° \mathcal{B}		morning max el	16589 Sep 30 14:41	9° \mathcal{M} 38'57	46°55'42
evening rise	16587 Apr 06 03:43	10° \mathcal{B} 16'13			16589 Oct 19 21:23	0° \mathcal{L}	
	16587 Apr 22 04:41	0° Π			16589 Nov 15 08:20	0° \mathcal{M}	
	16587 May 16 14:24	0° \mathcal{G}			16589 Dec 10 19:05	0° \mathcal{A}	
	16587 Jun 10 00:54	0° Ω		asc. node	16589 Dec 30 05:47	23° \mathcal{A} 21'16	
	16587 Jul 04 13:57	0° \mathcal{M}			16590 Jan 04 17:38	0° \mathcal{B}	
asc. node	16587 Jul 15 04:44	12° \mathcal{M} 53'43			16590 Jan 29 08:54	0° \approx	
	16587 Jul 29 08:54	0° \mathcal{L}			16590 Feb 22 19:59	0° \mathcal{H}	
	16587 Aug 23 15:46	0° \mathcal{M}			16590 Mar 19 05:04	0° Υ	
	16587 Sep 19 00:29	0° \mathcal{A}		morning set	16590 Mar 31 08:21	14° Υ 57'18	
evening max el	16587 Oct 07 11:13	19° \mathcal{A} 28'15	46°38'25		16590 Apr 12 13:17	0° \mathcal{B}	
	16587 Oct 18 10:59	0° \mathcal{B}		desc. node	16590 Apr 21 01:32	10° \mathcal{B} 29'56	
desc. node	16587 Nov 04 01:27	13° \mathcal{B} 19'16			16590 May 06 20:32	0° Π	
greatest brilliancy	16587 Nov 15 22:14	19° \mathcal{B} 40'42	-4.8m	max. Earth dist.	16590 May 06 21:59	0° Π 04'30	1.72876 AU
retrograde	16587 Nov 26 17:43	21° \mathcal{B} 50'20					
evening set	16587 Dec 14 05:56	16° \mathcal{B} 00'02		superior conj	16590 May 08 13:43	2° Π 07'13	-0°41'07
min. Earth dist.	16587 Dec 17 04:27	14° \mathcal{B} 13'15	0.28012 AU	minimum elong	16590 May 08 04:53	1° Π 39'57	0°41'14
inferior conj	16587 Dec 17 21:48	13° \mathcal{B} 46'34	-8°33'06		16590 May 31 02:18	0° \mathcal{G}	
minimum elong	16587 Dec 17 14:53	13° \mathcal{B} 57'13	8°31'48	evening rise	16590 Jun 16 02:28	19° \mathcal{G} 51'14	
morning rise	16587 Dec 21 00:02	11° \mathcal{B} 53'49			16590 Jun 24 06:32	0° Ω	
direct	16588 Jan 07 22:56	5° \mathcal{B} 52'12			16590 Jul 18 10:01	0° \mathcal{M}	
greatest brilliancy	16588 Jan 17 13:25	7° \mathcal{B} 33'46	-4.8m	asc. node	16590 Aug 11 17:52	0° \mathcal{L} 11'25	
	16588 Feb 19 08:27	0° \approx			16590 Aug 11 14:11	0° \mathcal{L}	
asc. node	16588 Feb 25 01:07	5° \approx 20'55			16590 Sep 04 20:55	0° \mathcal{M}	
morning max el	16588 Feb 26 03:10	6° \approx 23'49	45°49'20		16590 Sep 29 09:08	0° \mathcal{A}	
	16588 Mar 19 22:29	0° \mathcal{H}			16590 Oct 24 08:29	0° \mathcal{B}	
	16588 Apr 15 14:46	0° Υ			16590 Nov 19 07:05	0° \approx	
	16588 May 11 04:07	0° \mathcal{B}		desc. node	16590 Dec 01 12:34	13° \approx 27'10	
	16588 Jun 05 03:10	0° Π			16590 Dec 17 13:04	0° \mathcal{H}	
desc. node	16588 Jun 16 00:18	13° Π 14'15		evening max el	16590 Dec 18 02:50	0° \mathcal{H} 33'48	46°19'51
	16588 Jun 29 16:49	0° \mathcal{G}		greatest brilliancy	16591 Jan 26 14:00	29° \mathcal{H} 42'57	-4.8m
	16588 Jul 23 23:42	0° Ω			16591 Jan 27 10:10	0° Υ	
	16588 Aug 17 02:03	0° \mathcal{M}		retrograde	16591 Feb 05 14:29	1° Υ 32'55	
morning set	16588 Aug 26 05:07	11° \mathcal{M} 24'03			16591 Feb 14 10:32	30° \mathcal{R} \mathcal{H}	
	16588 Sep 10 01:56	0° \mathcal{L}		evening set	16591 Feb 22 05:48	26° \mathcal{H} 16'43	
	16588 Oct 04 00:49	0° \mathcal{M}		inferior conj	16591 Feb 27 00:36	23° \mathcal{H} 21'10	-5°48'02
				minimum elong	16591 Feb 27 11:00	23° \mathcal{H} 04'52	5°45'27
superior conj	16588 Oct 04 20:30	1° \mathcal{M} 01'38	-0°04'47	min. Earth dist.	16591 Feb 27 05:00	23° \mathcal{H} 14'17	0.28548 AU
minimum elong	16588 Oct 04 21:38	1° \mathcal{M} 05'12	0°04'27	morning rise	16591 Mar 04 16:14	19° \mathcal{H} 56'00	
behind sun begin	16588 Oct 03 21:25	29° \mathcal{L} 49'21		direct	16591 Mar 20 06:40	15° \mathcal{H} 13'42	
behind sun end	16588 Oct 05 21:50	2° \mathcal{M} 21'02		asc. node	16591 Mar 24 11:19	15° \mathcal{H} 33'52	
max. Earth dist.	16588 Oct 05 00:57	1° \mathcal{M} 15'37	1.71592 AU	greatest brilliancy	16591 Mar 30 22:20	17° \mathcal{H} 17'43	-4.8m
asc. node	16588 Oct 06 18:47	3° \mathcal{M} 26'39			16591 Apr 20 15:08	0° Υ	
	16588 Oct 27 23:42	0° \mathcal{A}		morning max el	16591 May 08 10:00	15° Υ 57'18	45°52'18
evening rise	16588 Nov 12 18:48	19° \mathcal{A} 45'22			16591 May 22 04:45	0° \mathcal{B}	
	16588 Nov 20 23:44	0° \mathcal{B}			16591 Jun 18 07:54	0° Π	
	16588 Dec 15 02:50	0° \approx			16591 Jul 13 23:14	0° \mathcal{G}	
	16589 Jan 08 11:31	0° \mathcal{H}		desc. node	16591 Jul 14 11:40	0° \mathcal{G} 37'02	
desc. node	16589 Jan 26 11:29	21° \mathcal{H} 54'22			16591 Aug 07 20:23	0° Ω	
	16589 Feb 02 04:22	0° Υ			16591 Sep 01 07:11	0° \mathcal{M}	
	16589 Feb 27 07:50	0° \mathcal{B}			16591 Sep 25 12:21	0° \mathcal{L}	
	16589 Mar 25 01:50	0° Π			16591 Oct 19 14:43	0° \mathcal{M}	
	16589 Apr 20 21:46	0° \mathcal{G}		asc. node	16591 Nov 04 07:40	19° \mathcal{M} 35'30	
evening max el	16589 May 11 20:12	21° \mathcal{G} 41'25	46°08'24	morning set	16591 Nov 08 16:46	25° \mathcal{M} 03'31	
asc. node	16589 May 19 06:40	28° \mathcal{G} 45'44			16591 Nov 12 15:45	0° \mathcal{A}	
	16589 May 20 15:11	0° Ω			16591 Dec 06 16:26	0° \mathcal{B}	
greatest brilliancy	16589 Jun 20 19:04	21° Ω 11'14	-4.8m				
retrograde	16589 Jun 30 06:42	22° Ω 51'30		superior conj	16591 Dec 17 03:51	13° \mathcal{B} 04'14	1°21'35
evening set	16589 Jul 18 09:13	16° Ω 36'54		minimum elong	16591 Dec 16 20:52	12° \mathcal{B} 42'28	1°22'04

max. Earth dist.	16591 Dec 19 06:54	15°  43'24	1.72182 AU	morning rise	16594 May 13 19:56	28°  46'23	
	16591 Dec 30 17:58	0° 		direct	16594 May 29 15:21	23°  52'10	
evening rise	16592 Jan 23 15:25	29°  39'32		greatest brilliancy	16594 Jun 08 21:52	25°  50'11	-4.8m
	16592 Jan 23 22:02	0° 			16594 Jun 17 12:47	0° 	
	16592 Feb 17 06:06	0° 		morning max el	16594 Jul 18 13:19	25°  42'57	46°31'22
desc. node	16592 Feb 24 00:49	8°  18'50			16594 Jul 22 19:27	0° 	
	16592 Mar 12 18:50	0° 		desc. node	16594 Aug 10 22:19	20°  27'46	
	16592 Apr 06 12:09	0° 			16594 Aug 19 09:56	0° 	
	16592 May 01 10:40	0° 			16594 Sep 14 03:29	0° 	
	16592 May 26 17:34	0° 			16594 Oct 09 02:09	0° 	
asc. node	16592 Jun 15 18:09	23°  12'49			16594 Nov 02 15:54	0° 	
	16592 Jun 21 17:44	0° 			16594 Nov 27 00:55	0° 	
	16592 Jul 19 11:44	0° 		asc. node	16594 Dec 01 20:01	5°  55'23	
evening max el	16592 Jul 23 14:04	4°  07'20	46°30'45		16594 Dec 21 07:04	0° 	
	16592 Aug 23 15:49	0° 			16595 Jan 14 11:41	0° 	
greatest brilliancy	16592 Sep 01 11:03	4°  16'46	-4.9m	morning set	16595 Jan 18 21:48	5°  29'03	
retrograde	16592 Sep 11 14:14	6°  12'36			16595 Feb 07 16:20	0° 	
evening set	16592 Sep 26 03:54	2°  03'25					
	16592 Sep 29 18:59	30° 		superior conj	16595 Feb 24 22:14	21°  40'26	0°59'16
inferior conj	16592 Oct 02 06:59	28°  29'29	0°53'37	minimum elong	16595 Feb 25 08:16	21°  41'26	0°59'02
minimum elong	16592 Oct 02 09:06	28°  26'15	0°53'09	max. Earth dist.	16595 Feb 26 21:45	23°  47'17	1.72978 AU
min. Earth dist.	16592 Oct 02 10:07	28°  24'43	0.26926 AU		16595 Mar 03 22:25	0° 	
desc. node	16592 Oct 05 16:43	26°  26'43		desc. node	16595 Mar 23 14:09	24°  14'30	
morning rise	16592 Oct 08 14:12	24°  49'16			16595 Mar 28 06:21	0° 	
direct	16592 Oct 23 00:23	20°  44'01		evening rise	16595 Apr 03 19:33	8°  03'51	
greatest brilliancy	16592 Nov 02 01:58	22°  36'17	-4.9m		16595 Apr 21 15:37	0° 	
	16592 Nov 15 21:43	0° 			16595 May 16 01:32	0° 	
morning max el	16592 Dec 11 20:30	22°  13'29	46°28'28		16595 Jun 09 12:24	0° 	
	16592 Dec 19 14:22	0° 			16595 Jul 04 02:01	0° 	
	16593 Jan 16 07:45	0° 		asc. node	16595 Jul 14 06:40	12°  12'07	
asc. node	16593 Jan 26 16:47	11°  34'10			16595 Jul 28 21:52	0° 	
	16593 Feb 11 08:55	0° 			16595 Aug 23 06:18	0° 	
	16593 Mar 08 15:14	0° 			16595 Sep 18 18:20	0° 	
	16593 Apr 02 11:29	0° 		evening max el	16595 Oct 05 02:29	17°  40'43	46°38'36
	16593 Apr 27 01:54	0° 			16595 Oct 18 16:15	0° 	
desc. node	16593 May 18 14:08	26°  24'19		desc. node	16595 Nov 03 03:17	11°  35'13	
	16593 May 21 12:10	0° 		greatest brilliancy	16595 Nov 13 12:03	17°  30'15	-4.8m
morning set	16593 Jun 10 16:49	24°  15'56'51		retrograde	16595 Nov 24 08:21	19°  30'12	
	16593 Jun 14 18:39	0° 		evening set	16595 Dec 11 16:10	13°  34'20	
	16593 Jul 08 21:45	0° 		min. Earth dist.	16595 Dec 14 17:36	11°  35'09	0.27964 AU
max. Earth dist.	16593 Jul 17 13:48	10°  48'48	1.71963 AU	inferior conj	16595 Dec 15 11:45	11°  32'15	-8°25'36
				minimum elong	16595 Dec 15 04:07	11°  38'59	8°24'09
superior conj	16593 Jul 20 03:45	14°  02'10	-1°26'49	morning rise	16595 Dec 18 16:20	9°  31'00	
minimum elong	16593 Jul 20 07:44	14°  01'43'5	1°27'15	direct	16596 Jan 05 13:10	3°  33'52	
	16593 Aug 01 22:25	0° 		greatest brilliancy	16596 Jan 15 01:45	5°  13'57	-4.8m
	16593 Aug 25 22:02	0° 			16596 Feb 19 10:00	0° 	
evening rise	16593 Aug 29 01:49	3°  45'56'59		morning max el	16596 Feb 23 16:59	4°  45'35	45°50'02
greatest brilliancy	16593 Aug 29 15:42	4°  40'23	-3.9m	asc. node	16596 Feb 24 03:07	4°  45'30'09	
asc. node	16593 Sep 08 07:16	16°  44'18			16596 Mar 19 15:07	0° 	
	16593 Sep 18 21:54	0° 			16596 Apr 15 04:33	0° 	
	16593 Oct 12 23:20	0° 			16596 May 10 16:34	0° 	
	16593 Nov 06 04:23	0° 			16596 Jun 04 14:53	0° 	
	16593 Nov 30 16:43	0° 		desc. node	16596 Jun 15 02:13	12°  11'44'59	
	16593 Dec 25 18:01	0° 			16596 Jun 29 04:07	0° 	
desc. node	16593 Dec 29 00:34	3°  41'51'04			16596 Jul 23 10:47	0° 	
	16594 Jan 20 17:23	0° 			16596 Aug 16 13:02	0° 	
	16594 Feb 17 11:03	0° 		morning set	16596 Aug 23 17:46	8°  17'59'24	
evening max el	16594 Feb 27 01:23	9°  34'35	46°02'27		16596 Sep 09 12:53	0° 	
	16594 Mar 22 22:35	0° 					
greatest brilliancy	16594 Apr 07 01:53	8°  16'50	-4.8m	superior conj	16596 Oct 02 09:06	28°  43'35	-0°08'35
retrograde	16594 Apr 17 06:43	10°  11'41		minimum elong	16596 Oct 02 11:12	28°  43'09	0°08'14
asc. node	16594 Apr 20 21:40	9°  15'54'46		behind sun begin	16596 Oct 01 13:25	27°  43'54	
evening set	16594 May 02 08:57	5°  42'43		behind sun end	16596 Oct 03 08:59	29°  45'12'4	
inferior conj	16594 May 08 11:03	2°  10'22'27	4°12'53	max. Earth dist.	16596 Oct 02 11:01	28°  42'36	1.71587 AU
minimum elong	16594 May 08 02:28	2°  15'56	4°10'01		16596 Oct 03 11:44	0° 	
min. Earth dist.	16594 May 08 07:14	2°  10'8'27	0.28331 AU	asc. node	16596 Oct 05 20:32	2°  15'57'55	
	16594 May 11 17:59	30° 			16596 Oct 27 10:37	0° 	

evening rise	16596 Nov 10 09:01	17° ♄ 25'33			16599 Jul 13 11:56	0° ♄		
	16596 Nov 20 10:43	0° ♄		desc. node	16599 Jul 13 13:33	0° ♄ 04'50		
	16596 Dec 14 13:56	0° ♄			16599 Aug 07 08:16	0° ♄		
	16597 Jan 07 22:53	0° ♄			16599 Aug 31 18:35	0° ♄		
desc. node	16597 Jan 25 13:25	21° ♄ 24'56			16599 Sep 24 23:25	0° ♄		
	16597 Feb 01 16:13	0° ♄			16599 Oct 19 01:34	0° ♄		
	16597 Feb 26 20:29	0° ♄		asc. node	16599 Nov 03 09:28	19° ♄ 07'29		
	16597 Mar 24 15:58	0° ♄		morning set	16599 Nov 06 06:34	22° ♄ 43'11		
	16597 Apr 20 15:05	0° ♄			16599 Nov 12 02:29	0° ♄		
evening max el	16597 May 09 09:42	19° ♄ 21'23	46°07'51		16599 Dec 06 03:05	0° ♄		
asc. node	16597 May 18 08:36	27° ♄ 49'00						
	16597 May 20 19:11	0° ♄		superior conj	16599 Dec 14 19:16	10° ♄ 49'31	1°20'17	
greatest brilliancy	16597 Jun 18 09:16	18° ♄ 52'23	-4.8m	minimum elong	16599 Dec 14 11:40	10° ♄ 25'49	1°20'43	
retrograde	16597 Jun 27 19:59	20° ♄ 32'10		max. Earth dist.	16599 Dec 16 19:03	13° ♄ 18'30	1.72158 AU	
evening set	16597 Jul 16 00:16	14° ♄ 16'02			16599 Dec 30 04:36	0° ♄		
inferior conj	16597 Jul 18 16:30	12° ♄ 36'26	9°00'15	evening rise	16600 Jan 21 06:55	27° ♄ 26'00		
minimum elong	16597 Jul 18 19:24	12° ♄ 31'54	8°59'40		16600 Jan 23 08:42	0° ♄		
min. Earth dist.	16597 Jul 19 05:45	12° ♄ 15'41	0.27834 AU		16600 Feb 16 16:55	0° ♄		
morning rise	16597 Jul 21 14:26	10° ♄ 47'51		desc. node	16600 Feb 23 02:32	7° ♄ 50'46		
direct	16597 Aug 08 17:09	4° ♄ 31'37			16600 Mar 13 05:55	0° ♄		
greatest brilliancy	16597 Aug 18 21:11	6° ♄ 28'05	-4.9m		16600 Apr 06 23:42	0° ♄		
desc. node	16597 Sep 07 08:22	18° ♄ 16'47			16600 May 01 22:54	0° ♄		
	16597 Sep 20 17:34	0° ♄			16600 May 27 06:58	0° ♄		
morning max el	16597 Sep 28 03:41	7° ♄ 14'46	46°55'39	asc. node	16600 Jun 15 20:06	22° ♄ 35'43		
	16597 Oct 19 14:40	0° ♄			16600 Jun 22 09:26	0° ♄		
	16597 Nov 14 22:38	0° ♄			16600 Jul 20 09:21	0° ♄		
asc. node	16597 Dec 10 07:55	0° ♄		evening max el	16600 Jul 22 03:30	1° ♄ 45'10	46°30'13	
	16597 Dec 29 07:45	22° ♄ 50'27			16600 Aug 26 14:50	0° ♄		
	16598 Jan 04 05:37	0° ♄		greatest brilliancy	16600 Aug 31 00:37	1° ♄ 53'05	-4.9m	
	16598 Jan 28 20:21	0° ♄		retrograde	16600 Sep 10 03:47	3° ♄ 48'47		
	16598 Feb 22 07:04	0° ♄			16600 Sep 24 00:58	30° ♄		
	16598 Mar 18 15:57	0° ♄		evening set	16600 Sep 24 18:11	29° ♄ 37'24		
morning set	16598 Mar 29 00:21	12° ♄ 45'17		inferior conj	16600 Sep 30 19:43	26° ♄ 05'33	1°17'49	
	16598 Apr 12 00:04	0° ♄		minimum elong	16600 Sep 30 22:46	26° ♄ 00'55	1°17'02	
desc. node	16598 Apr 20 03:14	10° ♄ 01'53		min. Earth dist.	16600 Sep 30 23:55	25° ♄ 59'10	0.26926 AU	
max. Earth dist.	16598 May 04 13:34	27° ♄ 51'03	1.72899 AU	desc. node	16600 Oct 05 18:30	23° ♄ 09'55		
				morning rise	16600 Oct 07 03:17	22° ♄ 25'14		
superior conj	16598 May 06 04:23	29° ♄ 50'59	-0°37'56	direct	16600 Oct 21 13:25	18° ♄ 19'45		
minimum elong	16598 May 05 20:06	29° ♄ 25'23	0°38'02	greatest brilliancy	16600 Oct 31 15:10	20° ♄ 12'47	-4.9m	
	16598 May 06 07:18	0° ♄			16600 Nov 17 18:44	0° ♄		
	16598 May 30 13:08	0° ♄		morning max el	16600 Dec 10 11:09	19° ♄ 55'47	46°29'58	
evening rise	16598 Jun 13 16:21	17° ♄ 31'37			16600 Dec 20 10:13	0° ♄		
	16598 Jun 23 17:28	0° ♄			16601 Jan 16 22:42	0° ♄		
	16598 Jul 17 21:05	0° ♄		asc. node	16601 Jan 26 18:40	11° ♄ 13'25		
asc. node	16598 Aug 10 19:43	29° ♄ 42'08			16601 Feb 11 21:50	0° ♄		
	16598 Aug 11 01:29	0° ♄			16601 Mar 09 03:05	0° ♄		
	16598 Sep 04 08:37	0° ♄			16601 Apr 02 22:45	0° ♄		
	16598 Sep 28 21:28	0° ♄			16601 Apr 27 12:51	0° ♄		
	16598 Oct 23 21:58	0° ♄		desc. node	16601 May 18 16:02	25° ♄ 56'58		
	16598 Nov 18 22:55	0° ♄			16601 May 21 22:55	0° ♄		
desc. node	16598 Nov 30 14:28	12° ♄ 44'45		morning set	16601 Jun 09 05:51	22° ♄ 35'35		
evening max el	16598 Dec 15 16:16	28° ♄ 14'37	46°20'35		16601 Jun 15 05:19	0° ♄		
	16598 Dec 17 11:32	0° ♄			16601 Jul 09 08:23	0° ♄		
greatest brilliancy	16599 Jan 24 05:25	27° ♄ 29'31	-4.8m	max. Earth dist.	16601 Jul 16 03:17	8° ♄ 27'53	1.71993 AU	
retrograde	16599 Feb 03 05:31	29° ♄ 19'41						
evening set	16599 Feb 20 00:05	23° ♄ 58'54		superior conj	16601 Jul 18 16:16	11° ♄ 38'10	-1°27'22	
inferior conj	16599 Feb 24 16:00	21° ♄ 07'53	-6°03'55	minimum elong	16601 Jul 18 19:18	11° ♄ 47'35	1°27'51	
minimum elong	16599 Feb 25 02:32	20° ♄ 51'25	6°01'23		16601 Aug 02 09:05	0° ♄		
min. Earth dist.	16599 Feb 24 20:29	21° ♄ 00'52	0.28555 AU		16601 Aug 26 08:46	0° ♄		
morning rise	16599 Mar 02 04:57	17° ♄ 46'37		evening rise	16601 Aug 27 13:48	1° ♄ 30'46		
direct	16599 Mar 17 21:29	13° ♄ 00'24		greatest brilliancy	16601 Aug 30 06:49	4° ♄ 54'06	-3.9m	
asc. node	16599 Mar 23 13:07	13° ♄ 36'38		asc. node	16601 Sep 08 09:00	16° ♄ 16'03		
greatest brilliancy	16599 Mar 28 14:07	15° ♄ 05'04	-4.8m		16601 Sep 19 08:44	0° ♄		
	16599 Apr 20 23:50	0° ♄			16601 Oct 13 10:18	0° ♄		
morning max el	16599 May 06 00:43	13° ♄ 41'56	45°51'28		16601 Nov 06 15:36	0° ♄		
	16599 May 21 22:36	0° ♄			16601 Dec 01 04:24	0° ♄		
	16599 Jun 17 22:08	0° ♄			16601 Dec 26 06:37	0° ♄		

desc. node 16601 Dec 29 02:29 3°~~19~~'18