

superior conj	5100 May 16 00:28	26°♄36'36	-1°04'42	morning rise	5102 Oct 07 04:58	10°♑14'58	
minimum elong	5100 May 16 11:17	27°♄10'17	1°04'21	direct	5102 Oct 25 12:25	3°♑59'13	
	5100 May 18 17:49	0°♄		greatest brilliancy	5102 Nov 05 07:02	6°♑06'16	-4.8m
max. Earth dist.	5100 May 19 18:06	1°♄15'33	1.72220 AU	asc. node	5102 Dec 01 01:21	23°♑11'03	
	5100 Jun 11 22:10	0°♄			5102 Dec 08 12:42	0°♑	
asc. node	5100 Jun 15 06:17	4°♄07'42		morning max el	5102 Dec 14 08:01	5°♑39'00	46°21'29
evening rise	5100 Jun 23 18:19	14°♄37'32			5103 Jan 06 05:47	0°♄	
	5100 Jul 06 05:59	0°♄			5103 Feb 01 05:24	0°♄	
	5100 Jul 30 17:23	0°♄			5103 Feb 26 04:17	0°♄	
	5100 Aug 24 09:12	0°♄		desc. node	5103 Mar 22 16:27	0°♄01'40	
	5100 Sep 18 07:24	0°♑			5103 Mar 22 15:54	0°♄	
desc. node	5100 Oct 04 21:17	19°♑42'34			5103 Apr 15 22:24	0°♄	
	5100 Oct 13 14:55	0°♄			5103 May 10 03:19	0°♄	
	5100 Nov 08 12:49	0°♄			5103 Jun 03 08:48	0°♄	
	5100 Dec 05 14:21	0°♄		morning set	5103 Jun 19 01:50	19°♑24'44	
evening max el	5100 Dec 19 19:07	14°♄42'56	46°52'50		5103 Jun 27 15:49	0°♄	
	5101 Jan 05 04:36	0°♄		asc. node	5103 Jul 13 18:10	19°♄50'30	
asc. node	5101 Jan 25 23:05	14°♄11'15			5103 Jul 22 00:08	0°♄	
greatest brilliancy	5101 Jan 29 03:46	15°♄30'24	-4.9m				
retrograde	5101 Feb 08 05:59	17°♄26'07		superior conj	5103 Jul 26 13:03	5°♄35'09	0°30'03
evening set	5101 Feb 24 05:13	12°♄24'03		minimum elong	5103 Jul 26 07:01	5°♄16'35	0°29'45
min. Earth dist.	5101 Feb 28 05:37	9°♄59'49	0.26833 AU	max. Earth dist.	5103 Jul 27 07:36	6°♄32'13	1.73367 AU
inferior conj	5101 Feb 28 19:44	9°♄38'11	7°30'32		5103 Aug 15 09:09	0°♄	
minimum elong	5101 Feb 28 09:26	9°♄53'58	7°28'39	evening rise	5103 Aug 31 19:06	20°♄11'19	
morning rise	5101 Mar 04 13:53	7°♄22'22			5103 Sep 08 18:37	0°♄	
direct	5101 Mar 21 08:14	1°♄55'55			5103 Oct 03 05:08	0°♑	
greatest brilliancy	5101 Mar 30 15:17	3°♄34'53	-4.9m		5103 Oct 27 17:35	0°♄	
	5101 May 06 03:43	0°♄		desc. node	5103 Nov 02 09:12	6°♄53'43	
morning max el	5101 May 10 12:10	4°♄15'26	46°38'46		5103 Nov 21 08:43	0°♄	
desc. node	5101 May 17 14:08	11°♄26'25			5103 Dec 16 03:32	0°♄	
	5101 Jun 03 21:55	0°♄			5104 Jan 10 05:21	0°♄	
	5101 Jun 30 10:34	0°♄			5104 Feb 05 00:18	0°♄	
	5101 Jul 26 03:14	0°♄		asc. node	5104 Feb 23 10:49	20°♄19'27	
	5101 Aug 20 09:06	0°♄		evening max el	5104 Mar 02 08:19	28°♄32'01	47°04'30
asc. node	5101 Sep 07 15:47	21°♄59'17			5104 Mar 03 19:09	0°♄	
	5101 Sep 14 06:38	0°♄		greatest brilliancy	5104 Apr 11 18:08	29°♄44'43	-4.9m
	5101 Oct 08 20:43	0°♄			5104 Apr 12 11:07	0°♄	
	5101 Nov 02 04:40	0°♑		retrograde	5104 Apr 21 24:00	1°♑43'40	
morning set	5101 Nov 05 14:55	4°♑14'44			5104 May 01 04:50	30°♑	
	5101 Nov 26 08:18	0°♄		evening set	5104 May 08 21:16	26°♄11'55	
max. Earth dist.	5101 Dec 10 18:29	17°♄59'21	1.71909 AU	inferior conj	5104 May 13 00:22	23°♄39'45	6°57'53
				minimum elong	5104 May 13 10:41	23°♄23'37	6°55'50
superior conj	5101 Dec 13 12:57	21°♄26'53	0°34'34	min. Earth dist.	5104 May 12 21:49	23°♄43'44	0.27779 AU
minimum elong	5101 Dec 13 20:37	21°♄50'49	0°34'14	morning rise	5104 May 18 00:22	20°♄37'43	
	5101 Dec 20 09:13	0°♄		direct	5104 Jun 02 22:16	15°♄42'58	
desc. node	5101 Dec 28 06:59	9°♄53'32		greatest brilliancy	5104 Jun 12 14:47	17°♄26'28	-4.8m
	5102 Jan 13 08:21	0°♄		desc. node	5104 Jun 14 01:59	17°♄58'30	
evening rise	5102 Jan 22 12:34	11°♄30'08			5104 Jul 03 17:48	0°♄	
	5102 Feb 06 06:30	0°♄		morning max el	5104 Jul 22 00:43	16°♄09'11	45°54'13
	5102 Mar 02 05:00	0°♄			5104 Aug 04 20:18	0°♄	
	5102 Mar 26 06:19	0°♄			5104 Sep 01 12:16	0°♄	
	5102 Apr 19 13:50	0°♄			5104 Sep 27 15:41	0°♄	
asc. node	5102 Apr 20 08:31	0°♄57'12		asc. node	5104 Oct 05 03:42	8°♄48'54	
	5102 May 14 07:55	0°♄			5104 Oct 22 22:16	0°♄	
	5102 Jun 08 19:23	0°♄			5104 Nov 16 14:52	0°♑	
	5102 Jul 05 15:11	0°♄			5104 Dec 10 22:14	0°♄	
evening max el	5102 Jul 25 19:40	20°♄39'36	45°33'05		5105 Jan 03 23:57	0°♄	
	5102 Aug 04 23:23	0°♄		morning set	5105 Jan 16 20:42	16°♄06'23	
desc. node	5102 Aug 09 23:43	4°♄13'52		desc. node	5105 Jan 24 18:44	26°♄02'26	
greatest brilliancy	5102 Sep 02 09:34	18°♄37'56	-4.7m		5105 Jan 27 22:25	0°♄	
retrograde	5102 Sep 12 11:35	20°♄27'25			5105 Feb 20 19:09	0°♄	
evening set	5102 Sep 30 13:31	14°♄22'10					
inferior conj	5102 Oct 03 22:31	12°♄16'44	-8°36'24	superior conj	5105 Feb 27 01:01	7°♄51'26	-1°09'35
minimum elong	5102 Oct 03 21:17	12°♄18'40	8°36'23	minimum elong	5105 Feb 26 13:22	7°♄14'48	1°09'13
min. Earth dist.	5102 Oct 04 06:49	12°♄03'42	0.28985 AU	max. Earth dist.	5105 Feb 27 06:00	8°♄07'07	1.71135 AU

	5105 Mar 16 15:31	0°♄		greatest brilliancy	5107 Aug 24 08:10	26°♄41'32	-4.7m
evening rise	5105 Apr 08 21:20	29°♄10'08			5107 Aug 31 18:25	0°♄	
	5105 Apr 09 13:16	0°♄		morning max el	5107 Oct 02 02:29	24°♄38'06	45°44'17
	5105 May 03 14:27	0°♄			5107 Oct 07 14:25	0°♄	
asc. node	5105 May 17 20:30	17°♄39'11		asc. node	5107 Nov 02 15:39	27°♄37'16	
	5105 May 27 20:57	0°♄			5107 Nov 04 18:49	0°♄	
	5105 Jun 21 10:30	0°♄			5107 Nov 30 18:46	0°♄	
	5105 Jul 16 09:35	0°♄			5107 Dec 25 17:57	0°♄	
	5105 Aug 10 23:11	0°♄			5108 Jan 19 04:03	0°♄	
desc. node	5105 Sep 06 11:24	29°♄51'47			5108 Feb 12 07:11	0°♄	
	5105 Sep 06 14:25	0°♄		desc. node	5108 Feb 22 06:34	12°♄27'49	
evening max el	5105 Oct 05 10:26	29°♄49'38	45°54'11		5108 Mar 07 06:46	0°♄	
	5105 Oct 05 14:46	0°♄			5108 Mar 31 04:59	0°♄	
greatest brilliancy	5105 Nov 14 05:44	28°♄27'57	-4.8m	morning set	5108 Apr 03 16:52	4°♄22'51	
	5105 Nov 21 22:15	0°♄			5108 Apr 24 03:48	0°♄	
retrograde	5105 Nov 23 12:08	0°♄02'55					
	5105 Nov 25 01:44	30°♄		superior conj	5108 May 13 13:45	24°♄14'04	-1°07'08
evening set	5105 Dec 08 17:56	25°♄33'52		minimum elong	5108 May 14 00:30	24°♄47'35	1°06'47
inferior conj	5105 Dec 14 08:10	22°♄16'13	-3°31'01	max. Earth dist.	5108 May 17 09:48	29°♄00'40	1.72168 AU
minimum elong	5105 Dec 14 15:39	22°♄04'45	3°28'50		5108 May 18 04:52	0°♄	
min. Earth dist.	5105 Dec 15 03:27	21°♄46'41	0.27294 AU		5108 Jun 11 09:10	0°♄	
morning rise	5105 Dec 20 12:34	18°♄37'32		asc. node	5108 Jun 14 08:21	3°♄40'06	
asc. node	5105 Dec 28 13:13	15°♄15'20		evening rise	5108 Jun 21 10:13	12°♄24'37	
direct	5106 Jan 04 04:55	14°♄20'29			5108 Jul 05 17:00	0°♄	
greatest brilliancy	5106 Jan 15 05:49	16°♄37'38	-4.9m		5108 Jul 30 04:33	0°♄	
	5106 Feb 05 02:00	0°♄			5108 Aug 23 20:44	0°♄	
morning max el	5106 Feb 23 20:54	17°♄31'36	46°57'49		5108 Sep 17 19:35	0°♄	
	5106 Mar 07 18:18	0°♄		desc. node	5108 Oct 03 23:18	19°♄10'41	
	5106 Apr 03 10:10	0°♄			5108 Oct 13 04:13	0°♄	
desc. node	5106 Apr 19 04:23	18°♄29'34			5108 Nov 08 04:03	0°♄	
	5106 Apr 28 20:31	0°♄			5108 Dec 05 09:48	0°♄	
	5106 May 23 18:47	0°♄		evening max el	5108 Dec 17 09:32	12°♄20'40	46°51'07
	5106 Jun 17 12:08	0°♄			5109 Jan 05 16:15	0°♄	
	5106 Jul 12 03:33	0°♄		asc. node	5109 Jan 25 01:02	12°♄23'34	
	5106 Aug 05 17:29	0°♄		greatest brilliancy	5109 Jan 26 16:52	13°♄02'19	-4.9m
asc. node	5106 Aug 10 05:55	5°♄31'34		retrograde	5109 Feb 05 18:41	14°♄57'09	
morning set	5106 Aug 26 18:30	25°♄46'11		evening set	5109 Feb 21 13:44	10°♄01'52	
	5106 Aug 30 05:12	0°♄		inferior conj	5109 Feb 26 08:15	7°♄10'04	7°16'28
	5106 Sep 23 14:10	0°♄		minimum elong	5109 Feb 25 21:41	7°♄26'19	7°14'24
max. Earth dist.	5106 Sep 30 03:56	8°♄06'49	1.73166 AU	min. Earth dist.	5109 Feb 25 18:27	7°♄31'16	0.26804 AU
				morning rise	5109 Mar 02 05:52	4°♄49'05	
superior conj	5106 Oct 02 05:33	10°♄40'01	1°25'06		5109 Mar 13 19:05	30°♄	
minimum elong	5106 Oct 02 04:04	10°♄35'26	1°25'06	direct	5109 Mar 18 20:47	29°♄28'26	
	5106 Oct 17 20:50	0°♄			5109 Mar 24 01:03	0°♄	
evening rise	5106 Nov 08 03:52	26°♄22'12		greatest brilliancy	5109 Mar 28 04:11	1°♄07'25	-4.9m
	5106 Nov 11 02:10	0°♄			5109 May 06 04:26	0°♄	
desc. node	5106 Nov 29 21:09	23°♄17'32		morning max el	5109 May 08 00:37	1°♄49'08	46°40'07
	5106 Dec 05 06:58	0°♄		desc. node	5109 May 16 16:19	10°♄38'33	
	5106 Dec 29 11:32	0°♄			5109 Jun 03 14:51	0°♄	
	5107 Jan 22 16:35	0°♄			5109 Jun 30 00:43	0°♄	
	5107 Feb 16 00:29	0°♄			5109 Jul 25 15:57	0°♄	
	5107 Mar 12 16:29	0°♄			5109 Aug 19 20:59	0°♄	
asc. node	5107 Mar 22 22:36	12°♄14'53		asc. node	5109 Sep 06 17:50	21°♄30'46	
	5107 Apr 07 02:27	0°♄			5109 Sep 13 18:00	0°♄	
	5107 May 04 04:08	0°♄			5109 Oct 08 07:49	0°♄	
evening max el	5107 May 13 20:44	9°♄54'18	46°13'51		5109 Nov 01 15:40	0°♄	
	5107 Jun 05 16:26	0°♄		morning set	5109 Nov 03 07:17	2°♄02'40	
greatest brilliancy	5107 Jun 21 07:52	9°♄03'17	-4.8m		5109 Nov 25 19:19	0°♄	
retrograde	5107 Jul 02 11:51	11°♄19'55		max. Earth dist.	5109 Dec 08 05:18	15°♄28'53	1.71958 AU
desc. node	5107 Jul 12 13:48	9°♄16'57					
evening set	5107 Jul 17 13:08	6°♄53'35		superior conj	5109 Dec 11 02:45	19°♄05'36	0°37'52
inferior conj	5107 Jul 23 21:39	3°♄04'33	-2°40'50	minimum elong	5109 Dec 11 10:57	19°♄31'11	0°37'31
minimum elong	5107 Jul 23 15:56	3°♄13'31	2°39'12		5109 Dec 19 20:18	0°♄	
min. Earth dist.	5107 Jul 23 10:52	3°♄21'25	0.28731 AU	desc. node	5109 Dec 27 08:59	9°♄24'55	
	5107 Jul 28 23:12	30°♄			5110 Jan 12 19:33	0°♄	
morning rise	5107 Jul 29 19:13	29°♄31'45		evening rise	5110 Jan 20 00:06	9°♄00'36	
direct	5107 Aug 14 08:20	24°♄53'12			5110 Feb 05 17:49	0°♄	

	5110 Mar 01 16:28	0°♄		5112 Oct 22 10:09	0°♊
	5110 Mar 25 18:00	0°♋		5112 Nov 16 02:16	0°♌
asc. node	5110 Apr 19 10:38	0°♊26'47		5112 Dec 10 09:23	0°♍
	5110 Apr 19 01:52	0°♊		5113 Jan 03 11:00	0°♎
	5110 May 13 20:38	0°♏	morning set	5113 Jan 14 08:36	13°♎38'40
	5110 Jun 08 09:27	0°♑	desc. node	5113 Jan 23 20:42	25°♎33'59
	5110 Jul 05 08:24	0°♒		5113 Jan 27 09:27	0°♐
evening max el	5110 Jul 23 10:12	18°♒25'00 45°33'30		5113 Feb 20 06:11	0°♑
	5110 Aug 05 04:11	0°♊			
desc. node	5110 Aug 09 01:42	3°♊11'58	superior conj	5113 Feb 24 11:23	5°♑18'20 -1°07'06
greatest brilliancy	5110 Aug 31 00:35	16°♊26'54 -4.7m	minimum elong	5113 Feb 23 23:29	4°♑40'55 1°06'42
retrograde	5110 Sep 10 02:49	18°♊17'04	max. Earth dist.	5113 Feb 24 12:55	5°♑23'11 1.71139 AU
evening set	5110 Sep 28 03:58	12°♊13'43		5113 Mar 16 02:34	0°♒
inferior conj	5110 Oct 01 14:36	10°♊05'55 -8°34'36	evening rise	5113 Apr 06 08:08	26°♒39'03
minimum elong	5110 Oct 01 12:35	10°♊09'05 8°34'32		5113 Apr 09 00:20	0°♋
min. Earth dist.	5110 Oct 01 22:10	9°♊54'02 0.29013 AU		5113 May 03 01:35	0°♌
morning rise	5110 Oct 04 21:03	8°♊04'00	asc. node	5113 May 16 22:30	17°♌10'43
direct	5110 Oct 23 04:05	1°♊48'02		5113 May 27 08:15	0°♏
greatest brilliancy	5110 Nov 02 22:57	3°♊54'38 -4.8m		5113 Jun 20 22:08	0°♑
asc. node	5110 Nov 30 03:23	22°♊12'37		5113 Jul 15 21:50	0°♒
	5110 Dec 08 12:38	0°♌		5113 Aug 10 12:40	0°♊
morning max el	5110 Dec 11 22:06	3°♌19'51 46°19'51	desc. node	5113 Sep 05 13:28	29°♊13'37
	5111 Jan 05 22:15	0°♍		5113 Sep 06 06:33	0°♌
	5111 Jan 31 19:25	0°♎	evening max el	5113 Oct 03 01:10	27°♌34'30 45°52'37
	5111 Feb 25 17:09	0°♐		5113 Oct 05 14:35	0°♍
desc. node	5111 Mar 21 18:32	29°♐30'28	greatest brilliancy	5113 Nov 11 18:35	26°♍07'14 -4.8m
	5111 Mar 22 04:06	0°♑	retrograde	5113 Nov 21 01:54	27°♍42'29
	5111 Apr 15 10:10	0°♒	evening set	5113 Dec 06 09:57	23°♍09'34
	5111 May 09 14:44	0°♋	inferior conj	5113 Dec 11 21:45	19°♍54'57 -3°51'44
	5111 Jun 02 19:57	0°♌	minimum elong	5113 Dec 12 05:49	19°♍42'35 3°49'25
morning set	5111 Jun 16 17:38	17°♌11'18	min. Earth dist.	5113 Dec 12 17:31	19°♍24'41 0.27353 AU
	5111 Jun 27 02:46	0°♏	morning rise	5113 Dec 18 00:59	16°♍17'58
asc. node	5111 Jul 12 20:03	19°♏22'45	asc. node	5113 Dec 27 15:06	12°♍31'46
	5111 Jul 21 11:01	0°♑	direct	5114 Jan 01 19:43	11°♍58'23
			greatest brilliancy	5114 Jan 12 20:24	14°♍15'47 -4.9m
superior conj	5111 Jul 24 06:19	3°♑27'10 0°26'58		5114 Feb 05 11:18	0°♎
minimum elong	5111 Jul 24 00:49	3°♑10'13 0°26'42	morning max el	5114 Feb 21 12:17	15°♎12'20 46°57'18
max. Earth dist.	5111 Jul 25 01:28	4°♑26'05 1.73348 AU		5114 Mar 07 12:58	0°♐
	5111 Aug 14 20:01	0°♒		5114 Apr 03 01:04	0°♑
evening rise	5111 Aug 29 13:27	18°♒06'37	desc. node	5114 Apr 18 06:30	17°♑55'07
	5111 Sep 08 05:35	0°♊		5114 Apr 28 09:43	0°♒
	5111 Oct 02 16:18	0°♌		5114 May 23 07:01	0°♋
	5111 Oct 27 05:06	0°♍		5114 Jun 16 23:45	0°♌
desc. node	5111 Nov 01 11:19	6°♍24'45		5114 Jul 11 14:44	0°♏
	5111 Nov 20 20:46	0°♎		5114 Aug 05 04:22	0°♑
	5111 Dec 15 16:24	0°♐	asc. node	5114 Aug 09 07:59	5°♑04'45
	5112 Jan 09 19:31	0°♑	morning set	5114 Aug 24 12:05	23°♑40'03
	5112 Feb 04 16:57	0°♒		5114 Aug 29 15:53	0°♒
asc. node	5112 Feb 22 12:49	19°♒31'26		5114 Sep 23 00:47	0°♊
evening max el	5112 Feb 28 21:24	26°♒06'26 47°05'24	max. Earth dist.	5114 Sep 28 00:30	6°♊09'17 1.73193 AU
	5112 Mar 03 18:39	0°♋			
greatest brilliancy	5112 Apr 09 09:42	27°♋24'52 -4.9m	superior conj	5114 Sep 29 23:15	8°♊33'36 1°24'47
retrograde	5112 Apr 19 14:31	29°♋23'23	minimum elong	5114 Sep 29 21:04	8°♊26'52 1°24'46
evening set	5112 May 06 14:53	23°♋46'52		5114 Oct 17 07:30	0°♌
inferior conj	5112 May 10 14:42	21°♋19'52 7°11'55	evening rise	5114 Nov 05 19:39	24°♌08'54
minimum elong	5112 May 11 00:51	21°♋04'01 7°10'01		5114 Nov 10 13:00	0°♍
min. Earth dist.	5112 May 10 12:12	21°♋23'45 0.27750 AU	desc. node	5114 Nov 28 23:06	22°♍49'26
morning rise	5112 May 15 11:02	18°♋23'14		5114 Dec 04 18:02	0°♎
direct	5112 May 31 11:32	13°♋23'21		5114 Dec 28 22:52	0°♐
greatest brilliancy	5112 Jun 10 04:36	15°♋07'21 -4.8m		5115 Jan 22 04:15	0°♑
desc. node	5112 Jun 13 03:56	16°♋16'10		5115 Feb 15 12:38	0°♒
	5112 Jul 04 04:30	0°♌		5115 Mar 12 05:30	0°♋
morning max el	5112 Jul 19 15:26	13°♌53'31 45°55'28	asc. node	5115 Mar 22 00:43	11°♋41'02
	5112 Aug 04 14:47	0°♏		5115 Apr 06 17:11	0°♌
	5112 Sep 01 02:45	0°♑		5115 May 03 23:09	0°♏
	5112 Sep 27 04:27	0°♒	evening max el	5115 May 11 13:15	7°♏42'46 46°15'45
asc. node	5112 Oct 04 05:47	8°♒18'17		5115 Jun 06 10:31	0°♑

greatest brilliancy	5115 Jun 19 00:28	6°Ω52'58	-4.8m		5117 Nov 25 05:55	0°♊	
retrograde	5115 Jun 30 04:29	9°Ω09'08		max. Earth dist.	5117 Dec 05 18:26	13°♊07'01	1.72007 AU
desc. node	5115 Jul 11 15:48	6°Ω30'49					
evening set	5115 Jul 15 04:45	4°Ω44'04		superior conj	5117 Dec 08 16:40	16°♊46'08	0°41'05
min. Earth dist.	5115 Jul 21 02:52	1°Ω11'05	0.28695 AU	minimum elong	5117 Dec 09 01:20	17°♊13'09	0°40'43
inferior conj	5115 Jul 21 13:41	0°Ω54'09	-2°21'22		5117 Dec 19 06:57	0°♊	
minimum elong	5115 Jul 21 08:35	1°Ω02'07	2°19'55	desc. node	5117 Dec 26 10:55	8°♊57'30	
	5115 Jul 23 00:22	30°♋			5118 Jan 12 06:19	0°♋	
morning rise	5115 Jul 27 12:59	27°♋18'57		evening rise	5118 Jan 17 11:52	6°♋33'10	
direct	5115 Aug 12 00:31	22°♋43'34			5118 Feb 05 04:44	0°♋	
greatest brilliancy	5115 Aug 21 22:51	24°♋30'44	-4.7m		5118 Mar 01 03:34	0°♋	
	5115 Sep 02 03:50	0°♋			5118 Mar 25 05:19	0°♋	
morning max el	5115 Sep 29 18:01	22°Ω27'39	45°43'40	asc. node	5118 Apr 18 12:37	29°♋57'10	
	5115 Oct 07 10:13	0°♎			5118 Apr 18 13:32	0°♎	
asc. node	5115 Nov 01 17:41	27°♎01'12			5118 May 13 08:58	0°♎	
	5115 Nov 04 09:31	0°♎			5118 Jun 07 23:08	0°♎	
	5115 Nov 30 07:36	0°♎			5118 Jul 05 01:25	0°♎	
	5115 Dec 25 05:55	0°♊		evening max el	5118 Jul 21 00:40	16°♎11'47	45°33'59
	5116 Jan 18 15:33	0°♊			5118 Aug 05 10:22	0°♎	
	5116 Feb 11 18:24	0°♋		desc. node	5118 Aug 08 03:45	2°♎10'10	
desc. node	5116 Feb 21 08:38	11°♋59'30		greatest brilliancy	5118 Aug 28 15:06	14°♎16'47	-4.7m
	5116 Mar 06 17:46	0°♋		retrograde	5118 Sep 07 18:30	16°♎08'29	
	5116 Mar 30 15:50	0°♋		evening set	5118 Sep 25 18:12	10°♎07'12	
morning set	5116 Apr 01 04:04	1°♋53'35		inferior conj	5118 Sep 29 06:47	7°♎56'39	-8°31'57
	5116 Apr 23 14:31	0°♋		minimum elong	5118 Sep 29 04:00	8°♎01'00	8°31'51
				min. Earth dist.	5118 Sep 29 13:30	7°♎46'06	0.29042 AU
superior conj	5116 May 11 03:13	21°♋53'17	-1°09'25	morning rise	5118 Oct 02 13:39	5°♎54'11	
minimum elong	5116 May 11 13:50	22°♋26'20	1°09'06		5118 Oct 16 13:32	30°♋	
max. Earth dist.	5116 May 15 02:33	26°♋50'14	1.72116 AU	direct	5118 Oct 20 19:56	29°♋38'19	
	5116 May 17 15:31	0°♎			5118 Oct 25 04:38	0°♎	
	5116 Jun 10 19:48	0°♎		greatest brilliancy	5118 Oct 31 15:15	1°♎44'59	-4.8m
asc. node	5116 Jun 13 10:16	3°♎13'08		asc. node	5118 Nov 29 05:17	21°♎16'25	
evening rise	5116 Jun 19 02:04	10°♎12'35			5118 Dec 08 11:01	0°♎	
	5116 Jul 05 03:41	0°♎		morning max el	5118 Dec 09 13:10	1°♎04'37	46°18'17
	5116 Jul 29 15:25	0°♎			5119 Jan 05 13:58	0°♊	
	5116 Aug 23 07:58	0°♎			5119 Jan 31 08:52	0°♊	
	5116 Sep 17 07:28	0°♎			5119 Feb 25 05:31	0°♋	
desc. node	5116 Oct 03 01:24	18°♎40'01		desc. node	5119 Mar 20 20:31	29°♋00'21	
	5116 Oct 12 17:13	0°♊			5119 Mar 21 15:51	0°♋	
	5116 Nov 07 19:05	0°♊			5119 Apr 14 21:31	0°♋	
	5116 Dec 05 05:21	0°♋			5119 May 09 01:46	0°♋	
evening max el	5116 Dec 14 23:02	9°♋57'22	46°49'15		5119 Jun 02 06:44	0°♎	
	5117 Jan 06 07:06	0°♋		morning set	5119 Jun 14 09:29	14°♎59'02	
asc. node	5117 Jan 24 03:06	10°♋32'51			5119 Jun 26 13:21	0°♎	
greatest brilliancy	5117 Jan 24 06:30	10°♋35'57	-4.9m	asc. node	5119 Jul 11 22:08	18°♎56'48	
retrograde	5117 Feb 03 06:54	12°♋29'23			5119 Jul 20 21:29	0°♎	
evening set	5117 Feb 18 22:20	7°♋40'35					
inferior conj	5117 Feb 23 20:47	4°♋43'16	7°01'24	superior conj	5119 Jul 21 23:42	1°Ω20'44	0°23'51
minimum elong	5117 Feb 23 10:01	4°♋59'50	6°59'11	minimum elong	5119 Jul 21 18:45	1°Ω05'31	0°23'37
min. Earth dist.	5117 Feb 23 07:47	5°♋03'15	0.26776 AU	max. Earth dist.	5119 Jul 22 20:36	2°Ω25'05	1.73327 AU
morning rise	5117 Feb 27 21:52	2°♋17'01			5119 Aug 14 06:29	0°♎	
	5117 Mar 04 05:18	30°♋		evening rise	5119 Aug 27 08:02	16°♎03'57	
direct	5117 Mar 16 08:47	27°♋01'55			5119 Sep 07 16:10	0°♎	
greatest brilliancy	5117 Mar 25 17:51	28°♋41'50	-4.9m		5119 Oct 02 03:07	0°♎	
	5117 Mar 29 01:22	0°♋			5119 Oct 26 16:18	0°♊	
morning max el	5117 May 05 12:35	29°♋22'47	46°41'41	desc. node	5119 Oct 31 13:13	5°♊56'04	
	5117 May 06 03:31	0°♋			5119 Nov 20 08:33	0°♊	
desc. node	5117 May 15 18:12	9°♋52'04			5119 Dec 15 05:01	0°♋	
	5117 Jun 03 06:59	0°♋			5120 Jan 09 09:29	0°♋	
	5117 Jun 29 14:14	0°♎			5120 Feb 04 09:34	0°♋	
	5117 Jul 25 04:08	0°♎		asc. node	5120 Feb 21 14:54	18°♋43'54	
	5117 Aug 19 08:23	0°♎		evening max el	5120 Feb 26 11:16	23°♋43'49	47°06'13
asc. node	5117 Sep 05 19:53	21°Ω03'30			5120 Mar 03 18:52	0°♋	
	5117 Sep 13 04:57	0°♎		greatest brilliancy	5120 Apr 07 00:27	25°♋04'35	-4.9m
	5117 Oct 07 18:31	0°♎		retrograde	5120 Apr 17 05:17	27°♋03'23	
morning set	5117 Oct 31 23:39	29°♎51'54		evening set	5120 May 04 08:17	21°♋21'56	
	5117 Nov 01 02:16	0°♎		inferior conj	5120 May 08 04:49	19°♋00'04	7°25'14

minimum elong	5120 May 08 14:44	18°♄44'37	7°23'29			5122 Nov 09 23:49	0°♁	
min. Earth dist.	5120 May 08 02:04	19°♄04'21	0.27722 AU	desc. node		5122 Nov 28 01:07	22°♁21'39	
morning rise	5120 May 12 21:24	16°♄09'12				5122 Dec 04 05:06	0°♄	
direct	5120 May 29 01:09	11°♄03'50				5122 Dec 28 10:15	0°♁	
greatest brilliancy	5120 Jun 07 17:48	12°♄47'55	-4.8m			5123 Jan 21 16:01	0°♄	
desc. node	5120 Jun 12 05:54	14°♄38'03				5123 Feb 15 00:59	0°♁	
	5120 Jul 04 12:04	0°♄				5123 Mar 11 18:47	0°♄	
morning max el	5120 Jul 17 06:56	11°♄40'30	45°56'53	asc. node		5123 Mar 21 02:39	11°♄05'57	
	5120 Aug 04 08:29	0°♄				5123 Apr 06 08:17	0°♄	
	5120 Aug 31 16:44	0°♄				5123 May 03 18:55	0°♄	
	5120 Sep 26 16:48	0°♄		evening max el		5123 May 09 05:00	5°♄28'42	46°17'44
asc. node	5120 Oct 03 07:46	7°♄48'31				5123 Jun 07 11:37	0°♄	
	5120 Oct 21 21:41	0°♄		greatest brilliancy		5123 Jun 16 17:28	4°♄42'23	-4.8m
	5120 Nov 15 13:23	0°♄		retrograde		5123 Jun 27 20:26	6°♄57'28	
	5120 Dec 09 20:18	0°♁		desc. node		5123 Jul 10 17:55	3°♄39'30	
	5121 Jan 02 21:51	0°♄		evening set		5123 Jul 12 20:26	2°♄33'28	
morning set	5121 Jan 11 20:32	11°♄11'44				5123 Jul 17 04:19	30°♄	
desc. node	5121 Jan 22 22:49	25°♄06'37		inferior conj		5123 Jul 19 05:35	28°♄42'59	-2°01'40
	5121 Jan 26 20:17	0°♁		minimum elong		5123 Jul 19 01:10	28°♄49'55	2°00'23
	5121 Feb 19 17:01	0°♄		min. Earth dist.		5123 Jul 18 19:06	28°♄59'26	0.28658 AU
				morning rise		5123 Jul 25 06:28	25°♄05'20	
superior conj	5121 Feb 21 21:33	2°♄45'16	-1°04'27	direct		5123 Aug 09 16:15	20°♄33'04	
minimum elong	5121 Feb 21 09:32	2°♄07'29	1°04'03	greatest brilliancy		5123 Aug 19 13:55	22°♄19'28	-4.7m
max. Earth dist.	5121 Feb 21 22:11	2°♄47'16	1.71140 AU			5123 Sep 03 03:59	0°♄	
	5121 Mar 15 13:23	0°♁		morning max el		5123 Sep 27 08:42	20°♄14'35	45°43'14
evening rise	5121 Apr 03 18:49	24°♁08'12				5123 Oct 07 05:36	0°♄	
	5121 Apr 08 11:12	0°♄		asc. node		5123 Oct 31 19:34	26°♄24'38	
	5121 May 02 12:32	0°♄				5123 Nov 04 00:11	0°♄	
asc. node	5121 May 16 00:26	16°♄42'35				5123 Nov 29 20:28	0°♄	
	5121 May 26 19:24	0°♄				5123 Dec 24 17:56	0°♁	
	5121 Jun 20 09:38	0°♄				5124 Jan 18 03:09	0°♄	
	5121 Jul 15 09:58	0°♄				5124 Feb 11 05:45	0°♁	
	5121 Aug 10 02:04	0°♄		desc. node		5124 Feb 20 10:39	11°♁30'30	
desc. node	5121 Sep 04 15:32	28°♄35'43				5124 Mar 06 04:58	0°♄	
	5121 Sep 05 22:44	0°♄		morning set		5124 Mar 29 14:42	29°♄21'43	
evening max el	5121 Sep 30 16:20	25°♄21'12	45°51'01			5124 Mar 30 02:55	0°♁	
	5121 Oct 05 15:17	0°♁				5124 Apr 23 01:31	0°♄	
greatest brilliancy	5121 Nov 09 07:30	23°♁47'29	-4.8m					
retrograde	5121 Nov 18 15:17	25°♁22'34		superior conj		5124 May 08 16:09	19°♄29'52	-1°11'36
evening set	5121 Dec 04 02:09	20°♁45'54		minimum elong		5124 May 09 02:32	20°♄02'13	1°11'20
inferior conj	5121 Dec 09 11:23	17°♁34'18	-4°11'52	max. Earth dist.		5124 May 12 17:07	24°♄32'03	1.72060 AU
minimum elong	5121 Dec 09 19:58	17°♁21'06	4°09'28			5124 May 17 02:27	0°♄	
min. Earth dist.	5121 Dec 10 07:33	17°♁03'21	0.27417 AU			5124 Jun 10 06:42	0°♄	
morning rise	5121 Dec 15 13:10	13°♁59'03		asc. node		5124 Jun 12 12:20	2°♄45'49	
asc. node	5121 Dec 26 17:13	9°♁54'02		evening rise		5124 Jun 16 17:20	7°♄57'48	
direct	5121 Dec 30 10:39	9°♁36'56				5124 Jul 04 14:39	0°♄	
greatest brilliancy	5122 Jan 10 10:52	11°♁54'01	-4.9m			5124 Jul 29 02:35	0°♄	
	5122 Feb 05 18:01	0°♄				5124 Aug 22 19:32	0°♄	
morning max el	5122 Feb 19 03:03	12°♄51'29	46°56'37			5124 Sep 16 19:42	0°♄	
	5122 Mar 07 07:12	0°♁		desc. node		5124 Oct 02 03:18	18°♄07'51	
	5122 Apr 02 15:47	0°♄				5124 Oct 12 06:35	0°♁	
desc. node	5122 Apr 17 08:27	17°♄20'24				5124 Nov 07 10:34	0°♄	
	5122 Apr 27 22:48	0°♁				5124 Dec 05 01:43	0°♁	
	5122 May 22 19:09	0°♄		evening max el		5124 Dec 12 11:41	7°♁31'35	46°47'28
	5122 Jun 16 11:17	0°♄				5125 Jan 07 03:15	0°♄	
	5122 Jul 11 01:52	0°♄		greatest brilliancy		5125 Jan 21 20:06	8°♄09'05	-4.9m
	5122 Aug 04 15:14	0°♄		asc. node		5125 Jan 23 05:07	8°♄37'06	
asc. node	5122 Aug 08 10:02	4°♄37'54		retrograde		5125 Jan 31 18:54	10°♄01'25	
morning set	5122 Aug 22 05:40	21°♄33'55		evening set		5125 Feb 16 07:05	5°♄18'22	
	5122 Aug 29 02:34	0°♄		inferior conj		5125 Feb 21 09:22	2°♄16'01	6°45'31
	5122 Sep 22 11:24	0°♄		minimum elong		5125 Feb 20 22:28	2°♄32'47	6°43'09
max. Earth dist.	5122 Sep 25 19:32	4°♄07'10	1.73215 AU	min. Earth dist.		5125 Feb 20 21:19	2°♄34'32	0.26757 AU
						5125 Feb 25 03:22	30°♄	
superior conj	5122 Sep 27 17:08	6°♄27'52	1°24'20	morning rise		5125 Feb 25 13:57	29°♁44'38	
minimum elong	5122 Sep 27 14:17	6°♄19'05	1°24'20	direct		5125 Mar 13 20:44	24°♁34'32	
	5122 Oct 16 18:10	0°♄		greatest brilliancy		5125 Mar 23 08:07	26°♁16'11	-4.9m
evening rise	5122 Nov 03 11:40	21°♄56'31				5125 Mar 31 10:12	0°♄	

morning max el	5125 May 03 00:51	26° X 55'50	46°43'05	desc. node	5127 Oct 30 15:15	5° X 26'31	
	5125 May 06 02:05	0° Y			5127 Nov 19 20:48	0° Z	
desc. node	5125 May 14 20:14	9° Y 05'24			5127 Dec 14 18:08	0° \approx	
	5125 Jun 02 23:16	0° X			5128 Jan 09 00:01	0° X	
	5125 Jun 29 04:04	0° II			5128 Feb 04 02:52	0° Y	
	5125 Jul 24 16:40	0° G		asc. node	5128 Feb 20 16:52	17° Y 54'23	
asc. node	5125 Aug 18 20:07	0° Ω		evening max el	5128 Feb 24 02:14	21° Y 23'14	47°07'10
	5125 Sep 04 21:49	20° Ω 34'51			5128 Mar 03 20:38	0° X	
	5125 Sep 12 16:14	0° M		greatest brilliancy	5128 Apr 04 14:50	22° X 43'36	-4.9m
	5125 Oct 07 05:33	0° L		retrograde	5128 Apr 14 20:34	24° X 43'05	
morning set	5125 Oct 29 15:58	27° L 39'56		evening set	5128 May 02 01:50	18° X 56'52	
	5125 Oct 31 13:13	0° M		inferior conj	5128 May 05 19:06	16° X 39'57	7°37'48
	5125 Nov 24 16:51	0° X		minimum elong	5128 May 06 04:43	16° X 25'01	7°36'12
max. Earth dist.	5125 Dec 03 09:18	10° X 49'32	1.72052 AU	min. Earth dist.	5128 May 05 15:40	16° X 45'18	0.27693 AU
				morning rise	5128 May 10 07:49	13° X 55'01	
superior conj	5125 Dec 06 06:49	14° X 26'20	0°44'12	direct	5128 May 26 15:24	8° X 44'16	
minimum elong	5125 Dec 06 15:53	14° X 54'36	0°43'50	greatest brilliancy	5128 Jun 05 06:34	10° X 27'38	-4.8m
	5125 Dec 18 17:57	0° Z		desc. node	5128 Jun 11 08:03	13° X 03'24	
desc. node	5125 Dec 25 13:03	8° Z 29'42			5128 Jul 04 17:38	0° II	
	5126 Jan 11 17:24	0° \approx		morning max el	5128 Jul 14 22:52	9° II 27'43	45°58'02
evening rise	5126 Jan 15 00:02	4° \approx 06'13			5128 Aug 04 02:08	0° G	
	5126 Feb 04 15:56	0° X			5128 Aug 31 06:58	0° Ω	
	5126 Feb 28 14:57	0° Y			5128 Sep 26 05:29	0° M	
	5126 Mar 24 16:57	0° X		asc. node	5128 Oct 02 09:44	7° M 17'35	
asc. node	5126 Apr 17 14:32	29° X 26'16			5128 Oct 21 09:33	0° L	
	5126 Apr 18 01:35	0° II			5128 Nov 15 00:50	0° M	
	5126 May 12 21:46	0° G			5128 Dec 09 07:32	0° X	
	5126 Jun 07 13:27	0° Ω			5129 Jan 02 09:00	0° Z	
	5126 Jul 04 19:23	0° M		morning set	5129 Jan 09 08:31	8° Z 44'04	
evening max el	5126 Jul 18 15:32	13° M 58'03	45°34'40	desc. node	5129 Jan 22 00:47	24° Z 37'45	
	5126 Aug 05 19:52	0° L			5129 Jan 26 07:26	0° \approx	
desc. node	5126 Aug 07 05:46	1° L 05'08					
greatest brilliancy	5126 Aug 26 04:55	12° L 04'23	-4.7m	superior conj	5129 Feb 19 07:47	0° X 11'26	-1°01'41
retrograde	5126 Sep 05 10:34	13° L 58'16		minimum elong	5129 Feb 18 19:47	29° \approx 33'39	1°01'15
evening set	5126 Sep 23 08:00	7° L 59'18			5129 Feb 19 04:09	0° X	
inferior conj	5126 Sep 26 22:48	5° L 45'36	-8°28'35	max. Earth dist.	5129 Feb 19 06:04	0° X 06'01	1.71139 AU
minimum elong	5126 Sep 26 19:16	5° L 51'07	8°28'24		5129 Mar 15 00:30	0° Y	
min. Earth dist.	5126 Sep 27 04:20	5° L 36'55	0.29068 AU	evening rise	5129 Apr 01 05:37	21° Y 36'48	
morning rise	5126 Sep 30 06:24	3° L 42'12			5129 Apr 07 22:18	0° X	
	5126 Oct 07 04:14	30° R M			5129 May 01 23:43	0° II	
direct	5126 Oct 18 12:02	27° M 26'51		asc. node	5129 May 15 02:32	16° II 14'24	
greatest brilliancy	5126 Oct 29 07:03	29° M 33'25	-4.8m		5129 May 26 06:45	0° G	
	5126 Oct 30 10:21	0° L			5129 Jun 19 21:20	0° Ω	
asc. node	5126 Nov 28 07:26	20° L 20'37			5129 Jul 14 22:23	0° M	
morning max el	5126 Dec 07 05:01	28° L 50'12	46°16'46		5129 Aug 09 15:51	0° L	
	5126 Dec 08 09:04	0° M		desc. node	5129 Sep 03 17:27	27° L 56'10	
	5127 Jan 05 05:51	0° X			5129 Sep 05 15:33	0° M	
	5127 Jan 30 22:34	0° Z		evening max el	5129 Sep 28 07:14	23° M 06'22	45°49'23
	5127 Feb 24 18:09	0° \approx			5129 Oct 05 17:45	0° X	
desc. node	5127 Mar 19 22:29	28° \approx 29'17		greatest brilliancy	5129 Nov 06 21:03	21° X 27'56	-4.8m
	5127 Mar 21 03:52	0° X		retrograde	5129 Nov 16 04:17	23° X 02'14	
	5127 Apr 14 09:07	0° Y		evening set	5129 Dec 01 18:32	18° X 21'50	
	5127 May 08 13:04	0° X		inferior conj	5129 Dec 07 01:09	15° X 13'26	-4°31'17
	5127 Jun 01 17:49	0° II		minimum elong	5129 Dec 07 10:11	14° X 59'31	4°28'51
morning set	5127 Jun 12 01:09	12° II 44'57		min. Earth dist.	5129 Dec 07 21:53	14° X 41'32	0.27480 AU
	5127 Jun 26 00:18	0° G		morning rise	5129 Dec 13 01:12	11° X 40'01	
asc. node	5127 Jul 11 00:11	18° G 29'29		asc. node	5129 Dec 25 19:14	7° X 21'27	
				direct	5129 Dec 28 01:19	7° X 15'15	
superior conj	5127 Jul 19 16:41	29° G 11'45	0°20'40	greatest brilliancy	5130 Jan 08 01:41	9° X 32'09	-4.9m
minimum elong	5127 Jul 19 12:20	28° G 58'23	0°20'26		5130 Feb 05 22:57	0° Z	
	5127 Jul 20 08:21	0° Ω		morning max el	5130 Feb 16 16:54	10° Z 27'35	46°55'52
max. Earth dist.	5127 Jul 20 16:29	0° Ω 25'02	1.73308 AU		5130 Mar 07 01:14	0° \approx	
	5127 Aug 13 17:22	0° M			5130 Apr 02 06:33	0° X	
evening rise	5127 Aug 25 02:16	13° M 58'59		desc. node	5130 Apr 16 10:26	16° X 45'24	
	5127 Sep 07 03:10	0° L			5130 Apr 27 11:59	0° Y	
	5127 Oct 01 14:21	0° M			5130 May 22 07:24	0° X	
	5127 Oct 26 03:57	0° X			5130 Jun 15 22:55	0° II	

	5130 Jul 10 13:05	0°☿		greatest brilliancy	5133 Jan 19 09:13	5°☿41'23	-4.9m
	5130 Aug 04 02:10	0°♊		asc. node	5133 Jan 22 07:03	6°☿36'12	
asc. node	5130 Aug 07 11:56	4°♊10'20		retrograde	5133 Jan 29 07:04	7°☿33'22	
morning set	5130 Aug 19 23:28	19°♊28'11		evening set	5133 Feb 13 15:50	2°☿55'26	
	5130 Aug 28 13:21	0°♋		inferior conj	5133 Feb 18 21:49	29°☿48'28	6°28'45
	5130 Sep 21 22:09	0°♌		minimum elong	5133 Feb 18 10:52	0°☿05'14	6°26'14
max. Earth dist.	5130 Sep 23 13:00	1°♌59'47	1.73243 AU	min. Earth dist.	5133 Feb 18 10:35	0°☿05'41	0.26739 AU
					5133 Feb 18 14:17	30°☿	
superior conj	5130 Sep 25 11:11	4°♌22'15	1°23'47	morning rise	5133 Feb 23 05:58	27°☿12'10	
minimum elong	5130 Sep 25 07:43	4°♌11'32	1°23'45	direct	5133 Mar 11 08:41	22°☿06'48	
	5130 Oct 16 04:59	0°♍		greatest brilliancy	5133 Mar 20 22:08	23°☿50'18	-4.9m
evening rise	5130 Nov 01 03:45	19°♍43'50			5133 Apr 01 22:55	0°☿	
	5130 Nov 09 10:49	0°♎		morning max el	5133 Apr 30 13:48	24°☿30'53	46°44'31
desc. node	5130 Nov 27 03:12	21°♎53'35			5133 May 05 23:41	0°♏	
	5130 Dec 03 16:20	0°♐		desc. node	5133 May 13 22:23	8°♏20'07	
	5130 Dec 27 21:47	0°♑			5133 Jun 02 15:08	0°♐	
	5131 Jan 21 03:58	0°♒			5133 Jun 28 17:36	0°♑	
	5131 Feb 14 13:31	0°♓			5133 Jul 24 04:55	0°☿	
	5131 Mar 11 08:18	0°♈			5133 Aug 18 07:37	0°♊	
asc. node	5131 Mar 20 04:38	10°♈30'28		asc. node	5133 Sep 03 23:51	20°♊07'12	
	5131 Apr 05 23:42	0°♉			5133 Sep 12 03:16	0°♋	
	5131 May 03 15:23	0°☿			5133 Oct 06 16:20	0°♌	
evening max el	5131 May 06 20:07	3°☿12'44	46°19'49	morning set	5133 Oct 27 08:47	25°♌30'21	
	5131 Jun 08 23:00	0°♍			5133 Oct 30 23:54	0°♍	
greatest brilliancy	5131 Jun 14 10:56	2°♍32'32	-4.8m		5133 Nov 24 03:34	0°♎	
retrograde	5131 Jun 25 12:15	4°♍46'32		max. Earth dist.	5133 Dec 01 02:16	8°♎39'17	1.72102 AU
desc. node	5131 Jul 09 19:50	0°♍45'42					
evening set	5131 Jul 10 12:29	0°♍23'12		superior conj	5133 Dec 03 21:16	12°♎08'10	0°47'13
	5131 Jul 11 05:08	30°♍☿		minimum elong	5133 Dec 04 06:40	12°♎37'28	0°46'51
inferior conj	5131 Jul 16 21:45	26°☿32'39	-1°41'56		5133 Dec 18 04:45	0°♐	
minimum elong	5131 Jul 16 18:01	26°☿38'31	1°40'50	desc. node	5133 Dec 24 15:02	8°♐02'00	
min. Earth dist.	5131 Jul 16 11:48	26°☿48'16	0.28620 AU		5134 Jan 11 04:20	0°♑	
morning rise	5131 Jul 23 00:03	22°☿52'44		evening rise	5134 Jan 12 12:13	1°♑39'50	
direct	5131 Aug 07 07:43	18°☿23'20			5134 Feb 04 03:02	0°♒	
greatest brilliancy	5131 Aug 17 05:42	20°☿09'36	-4.7m		5134 Feb 28 02:13	0°♓	
	5131 Sep 03 21:28	0°♊			5134 Mar 24 04:27	0°♈	
morning max el	5131 Sep 24 23:05	18°♊01'05	45°42'46	asc. node	5134 Apr 16 16:40	28°♈56'27	
	5131 Oct 07 00:20	0°♋			5134 Apr 17 13:30	0°♉	
asc. node	5131 Oct 30 21:42	25°♋49'02			5134 May 12 10:27	0°☿	
	5131 Nov 03 14:39	0°♌			5134 Jun 07 03:43	0°♊	
	5131 Nov 29 09:17	0°♍			5134 Jul 04 13:31	0°♋	
	5131 Dec 24 05:59	0°♎		evening max el	5134 Jul 16 07:27	11°♋47'45	45°35'29
	5132 Jan 17 14:46	0°♐		desc. node	5134 Aug 06 07:46	29°♋59'20	
	5132 Feb 10 17:06	0°♑			5134 Aug 06 08:07	0°♌	
desc. node	5132 Feb 19 12:37	11°♑01'16		greatest brilliancy	5134 Aug 23 18:43	9°♌53'20	-4.7m
	5132 Mar 05 16:08	0°♒		retrograde	5134 Sep 03 03:11	11°♌49'32	
morning set	5132 Mar 27 01:08	26°♒49'09		evening set	5134 Sep 20 21:50	5°♌53'25	
	5132 Mar 29 13:58	0°♓		inferior conj	5134 Sep 24 15:00	3°♌36'09	-8°24'36
	5132 Apr 22 12:30	0°♈		minimum elong	5134 Sep 24 10:46	3°♌42'47	8°24'20
				min. Earth dist.	5134 Sep 24 19:01	3°♌29'53	0.29086 AU
superior conj	5132 May 06 05:02	17°♈06'20	-1°13'41	morning rise	5134 Sep 27 23:36	1°♌31'27	
minimum elong	5132 May 06 15:06	17°♈37'44	1°13'25		5134 Sep 30 14:12	30°♌♋	
max. Earth dist.	5132 May 10 04:56	22°♈05'18	1.72005 AU	direct	5134 Oct 16 04:44	25°♋17'21	
	5132 May 16 13:21	0°♉		greatest brilliancy	5134 Oct 26 22:18	27°♋22'59	-4.8m
	5132 Jun 09 17:33	0°☿			5134 Nov 01 17:24	0°♌	
asc. node	5132 Jun 11 14:23	2°☿18'35		asc. node	5134 Nov 27 09:24	19°♌26'57	
evening rise	5132 Jun 14 08:34	5°☿43'04		morning max el	5134 Dec 04 21:17	26°♌38'24	46°15'08
	5132 Jul 04 01:32	0°♍			5134 Dec 08 05:47	0°♍	
	5132 Jul 28 13:39	0°♎			5135 Jan 04 21:06	0°♎	
	5132 Aug 22 06:59	0°♏			5135 Jan 30 11:52	0°♐	
	5132 Sep 16 07:51	0°♑			5135 Feb 24 06:29	0°♑	
desc. node	5132 Oct 01 05:22	17°♑36'26		desc. node	5135 Mar 19 00:34	27°♑59'13	
	5132 Oct 11 19:57	0°♒			5135 Mar 20 15:39	0°♒	
	5132 Nov 07 02:12	0°♓			5135 Apr 13 20:31	0°♓	
	5132 Dec 04 22:46	0°♈			5135 May 08 00:10	0°♈	
evening max el	5132 Dec 10 00:13	5°♈05'42	46°45'34		5135 Jun 01 04:40	0°♉	
	5133 Jan 08 06:49	0°♊		morning set	5135 Jun 09 16:31	10°♉30'44	

	5135 Jun 25 10:58	0°☿	morning rise	5137 Dec 10 13:10	9°♊22'59	
asc. node	5135 Jul 10 02:05	18°☿02'37	asc. node	5137 Dec 24 21:08	4°♊55'53	
			direct	5137 Dec 25 15:35	4°♊55'11	
superior conj	5135 Jul 17 09:30	27°☿03'05 0°17'26	greatest brilliancy	5138 Jan 05 17:01	7°♊12'31	-4.9m
minimum elong	5135 Jul 17 05:48	26°☿51'40 0°17'14		5138 Feb 06 01:31	0°♊	
max. Earth dist.	5135 Jul 18 13:51	28°☿30'25 1.73285 AU	morning max el	5138 Feb 14 05:53	8°♊02'56	46°55'13
	5135 Jul 19 18:57	0°♊		5138 Mar 06 18:21	0°♊	
	5135 Aug 13 03:58	0°♊		5138 Apr 01 20:41	0°♊	
evening rise	5135 Aug 22 20:38	11°♊55'16	desc. node	5138 Apr 15 12:33	16°♊12'09	
	5135 Sep 06 13:52	0°♊		5138 Apr 27 00:41	0°♊	
	5135 Oct 01 01:16	0°♊		5138 May 21 19:18	0°♊	
	5135 Oct 25 15:14	0°♊		5138 Jun 15 10:17	0°♊	
desc. node	5135 Oct 29 17:23	4°♊58'25		5138 Jul 10 00:05	0°☿	
	5135 Nov 19 08:40	0°♊		5138 Aug 03 12:53	0°♊	
	5135 Dec 14 06:55	0°♊	asc. node	5138 Aug 06 14:01	3°♊43'57	
	5136 Jan 08 14:17	0°♊	morning set	5138 Aug 17 16:50	17°♊21'43	
	5136 Feb 03 20:11	0°♊		5138 Aug 27 23:54	0°♊	
asc. node	5136 Feb 19 18:51	17°♊04'48		5138 Sep 21 08:39	0°♊	
evening max el	5136 Feb 21 17:36	19°♊04'15 47°07'38	max. Earth dist.	5138 Sep 21 06:16	29°♊52'38	1.73269 AU
	5136 Mar 03 23:38	0°♊				
greatest brilliancy	5136 Apr 02 05:11	20°♊22'28 -4.9m	superior conj	5138 Sep 23 05:00	2°♊16'42	1°23'06
retrograde	5136 Apr 12 11:27	22°♊22'01	minimum elong	5138 Sep 23 00:53	2°♊04'02	1°23'03
evening set	5136 Apr 29 19:07	16°♊31'26		5138 Oct 15 15:35	0°♊	
inferior conj	5136 May 03 09:06	14°♊19'18 7°49'44	evening rise	5138 Oct 29 19:49	17°♊31'59	
minimum elong	5136 May 03 18:19	14°♊04'58 7°48'18		5138 Nov 08 21:36	0°♊	
min. Earth dist.	5136 May 03 04:57	14°♊25'45 0.27663 AU	desc. node	5138 Nov 26 05:08	21°♊25'46	
morning rise	5136 May 07 17:47	11°♊40'20		5138 Dec 03 03:20	0°♊	
direct	5136 May 24 05:36	6°♊24'23		5138 Dec 27 09:04	0°♊	
greatest brilliancy	5136 Jun 02 18:52	8°♊06'34 -4.8m		5139 Jan 20 15:37	0°♊	
desc. node	5136 Jun 10 09:58	11°♊31'44		5139 Feb 14 01:44	0°♊	
	5136 Jul 04 21:10	0°♊		5139 Mar 10 21:31	0°♊	
morning max el	5136 Jul 12 13:50	7°♊13'05 45°59'16	asc. node	5139 Mar 19 06:45	9°♊56'17	
	5136 Aug 03 19:08	0°☿		5139 Apr 05 14:57	0°♊	
	5136 Aug 30 20:44	0°♊		5139 May 03 12:13	0°☿	
	5136 Sep 25 17:45	0°♊	evening max el	5139 May 04 10:12	0°☿54'50	46°21'40
asc. node	5136 Oct 01 11:48	6°♊48'01		5139 Jun 11 05:50	0°♊	
	5136 Oct 20 21:02	0°♊	greatest brilliancy	5139 Jun 12 03:58	0°♊22'06	-4.8m
	5136 Nov 14 11:53	0°♊	retrograde	5139 Jun 23 03:55	2°♊35'27	
	5136 Dec 08 18:22	0°♊		5139 Jul 04 13:53	30°♊☿	
	5137 Jan 01 19:45	0°♊	evening set	5139 Jul 08 04:26	28°☿12'09	
morning set	5137 Jan 06 21:09	6°♊19'47	desc. node	5139 Jul 08 21:52	27°☿47'53	
desc. node	5137 Jan 21 02:46	24°♊10'20	min. Earth dist.	5139 Jul 14 04:25	24°☿36'27	0.28589 AU
	5137 Jan 25 18:10	0°♊	inferior conj	5139 Jul 14 13:40	24°☿21'57	-1°21'42
			minimum elong	5139 Jul 14 10:39	24°☿26'40	1°20'49
superior conj	5137 Feb 16 18:25	27°♊40'06 -0°58'49	morning rise	5139 Jul 20 17:18	20°☿40'01	
minimum elong	5137 Feb 16 06:30	27°♊02'39 0°58'22	direct	5139 Aug 04 22:43	16°☿12'57	
max. Earth dist.	5137 Feb 16 12:36	27°♊21'48 1.71146 AU	greatest brilliancy	5139 Aug 14 21:50	17°☿59'51	-4.7m
	5137 Feb 18 14:54	0°♊		5139 Sep 04 10:30	0°♊	
	5137 Mar 14 11:17	0°♊	morning max el	5139 Sep 22 13:38	15°♊48'04	45°42'29
evening rise	5137 Mar 29 16:16	19°♊05'46		5139 Oct 06 18:31	0°♊	
	5137 Apr 07 09:08	0°♊	asc. node	5139 Oct 29 23:43	25°♊13'44	
	5137 May 01 10:40	0°♊		5139 Nov 03 04:51	0°♊	
asc. node	5137 May 14 04:30	15°♊46'26		5139 Nov 28 21:53	0°♊	
	5137 May 25 17:54	0°☿		5139 Dec 23 17:49	0°♊	
	5137 Jun 19 08:52	0°♊		5140 Jan 17 02:11	0°♊	
	5137 Jul 14 10:37	0°♊		5140 Feb 10 04:15	0°♊	
	5137 Aug 09 05:31	0°♊	desc. node	5140 Feb 18 14:42	10°♊33'05	
desc. node	5137 Sep 02 19:33	27°♊17'25		5140 Mar 05 03:06	0°♊	
	5137 Sep 05 08:26	0°♊	morning set	5140 Mar 24 11:49	24°♊18'01	
evening max el	5137 Sep 25 21:13	20°♊50'11 45°47'50		5140 Mar 29 00:48	0°♊	
	5137 Oct 05 21:25	0°♊		5140 Apr 21 23:14	0°♊	
greatest brilliancy	5137 Nov 04 11:15	19°♊10'20 -4.8m				
retrograde	5137 Nov 13 17:04	20°♊43'31	superior conj	5140 May 03 18:12	14°♊44'21	-1°15'36
evening set	5137 Nov 29 11:07	15°♊59'09	minimum elong	5140 May 04 03:52	15°♊14'32	1°15'22
inferior conj	5137 Dec 04 15:04	12°♊54'16 -4°50'13	max. Earth dist.	5140 May 07 16:04	19°♊37'09	1.71953 AU
minimum elong	5137 Dec 05 00:29	12°♊39'46 4°47'45		5140 May 16 00:00	0°♊	
min. Earth dist.	5137 Dec 05 12:37	12°♊21'03 0.27539 AU		5140 Jun 09 04:13	0°☿	

asc. node	5140 Jun 10 16:18	1°♄51'32		asc. node	5142 Nov 26 11:21	18°♄33'24	
evening rise	5140 Jun 11 23:56	3°♄29'17		morning max el	5142 Dec 02 13:19	24°♄25'21	46°13'26
	5140 Jul 03 12:18	0°♄			5142 Dec 08 02:07	0°♄	
	5140 Jul 28 00:39	0°♄			5143 Jan 04 12:24	0°♄	
	5140 Aug 21 18:25	0°♄			5143 Jan 30 01:15	0°♄	
	5140 Sep 15 20:01	0°♄			5143 Feb 23 18:56	0°♄	
desc. node	5140 Sep 30 07:26	17°♄04'59		desc. node	5143 Mar 18 02:35	27°♄28'33	
	5140 Oct 11 09:23	0°♄			5143 Mar 20 03:33	0°♄	
	5140 Nov 06 18:03	0°♄			5143 Apr 13 08:02	0°♄	
	5140 Dec 04 20:32	0°♄			5143 May 07 11:23	0°♄	
evening max el	5140 Dec 07 13:11	2°♄41'23	46°43'47		5143 May 31 15:39	0°♄	
	5141 Jan 09 21:54	0°♄		morning set	5143 Jun 07 08:05	8°♄16'34	
greatest brilliancy	5141 Jan 16 21:48	3°♄13'25	-4.9m		5143 Jun 24 21:48	0°♄	
asc. node	5141 Jan 21 09:09	4°♄30'37		asc. node	5143 Jul 09 04:11	17°♄35'58	
retrograde	5141 Jan 26 19:51	5°♄05'42					
evening set	5141 Feb 11 00:48	0°♄32'21		superior conj	5143 Jul 15 02:33	24°♄54'38	0°14'12
	5141 Feb 11 23:51	30°♄		minimum elong	5143 Jul 14 23:30	24°♄45'14	0°14'02
inferior conj	5141 Feb 16 10:14	27°♄21'00	6°11'06	behind sun begin	5143 Jul 14 12:30	24°♄11'20	
minimum elong	5141 Feb 15 23:21	27°♄37'39	6°08'30	behind sun end	5143 Jul 15 10:30	25°♄19'07	
min. Earth dist.	5141 Feb 15 23:33	27°♄37'20	0.26721 AU	max. Earth dist.	5143 Jul 16 12:32	26°♄39'19	1.73257 AU
morning rise	5141 Feb 20 21:57	24°♄40'00			5143 Jul 19 05:41	0°♄	
direct	5141 Mar 08 21:04	19°♄39'13			5143 Aug 12 14:43	0°♄	
greatest brilliancy	5141 Mar 18 11:37	21°♄24'06	-4.9m	evening rise	5143 Aug 20 15:12	9°♄51'44	
	5141 Apr 03 00:43	0°♄			5143 Sep 06 00:44	0°♄	
morning max el	5141 Apr 28 03:42	22°♄08'43	46°46'03		5143 Sep 30 12:25	0°♄	
	5141 May 05 20:20	0°♄			5143 Oct 25 02:50	0°♄	
desc. node	5141 May 13 00:17	7°♄35'15		desc. node	5143 Oct 28 19:16	4°♄28'40	
	5141 Jun 02 06:34	0°♄			5143 Nov 18 20:55	0°♄	
	5141 Jun 28 06:51	0°♄			5143 Dec 13 20:07	0°♄	
	5141 Jul 23 17:01	0°♄			5144 Jan 08 05:04	0°♄	
	5141 Aug 17 19:03	0°♄			5144 Feb 03 14:13	0°♄	
asc. node	5141 Sep 03 01:55	19°♄39'37		asc. node	5144 Feb 18 20:57	16°♄13'42	
	5141 Sep 11 14:19	0°♄		evening max el	5144 Feb 19 08:34	16°♄43'15	47°08'09
	5141 Oct 06 03:11	0°♄			5144 Mar 04 04:44	0°♄	
morning set	5141 Oct 25 01:25	23°♄20'01		greatest brilliancy	5144 Mar 30 20:00	18°♄01'05	-4.9m
	5141 Oct 30 10:40	0°♄		retrograde	5144 Apr 10 01:55	19°♄59'58	
	5141 Nov 23 14:20	0°♄		evening set	5144 Apr 27 12:22	14°♄05'20	
max. Earth dist.	5141 Nov 28 18:38	6°♄27'04	1.72147 AU	inferior conj	5144 Apr 30 23:06	11°♄57'52	8°00'54
				minimum elong	5144 May 01 07:52	11°♄44'13	7°59'37
superior conj	5141 Dec 01 11:32	9°♄49'18	0°50'10	min. Earth dist.	5144 Apr 30 18:24	12°♄05'11	0.27629 AU
minimum elong	5141 Dec 01 21:11	10°♄19'25	0°49'47	morning rise	5144 May 05 03:38	9°♄24'49	
	5141 Dec 17 15:36	0°♄		direct	5144 May 21 19:41	4°♄03'46	
desc. node	5141 Dec 23 16:59	7°♄34'06		greatest brilliancy	5144 May 31 07:21	5°♄44'43	-4.8m
evening rise	5142 Jan 10 00:18	29°♄12'59		desc. node	5144 Jun 09 12:00	10°♄02'34	
	5142 Jan 10 15:19	0°♄			5144 Jul 04 23:26	0°♄	
	5142 Feb 03 14:11	0°♄		morning max el	5144 Jul 10 03:59	4°♄55'33	46°00'38
	5142 Feb 27 13:33	0°♄			5144 Aug 03 12:02	0°♄	
	5142 Mar 23 16:02	0°♄			5144 Aug 30 10:35	0°♄	
asc. node	5142 Apr 15 18:37	28°♄25'55			5144 Sep 25 06:11	0°♄	
	5142 Apr 17 01:29	0°♄		asc. node	5144 Sep 30 13:48	6°♄17'41	
	5142 May 11 23:13	0°♄			5144 Oct 20 08:44	0°♄	
	5142 Jun 06 18:07	0°♄			5144 Nov 13 23:13	0°♄	
	5142 Jul 04 08:07	0°♄			5144 Dec 08 05:33	0°♄	
evening max el	5142 Jul 13 23:51	9°♄38'37	45°36'11		5145 Jan 01 06:54	0°♄	
desc. node	5142 Aug 05 09:50	28°♄51'40		morning set	5145 Jan 04 09:29	3°♄53'20	
	5142 Aug 07 00:45	0°♄		desc. node	5145 Jan 20 04:54	23°♄42'05	
greatest brilliancy	5142 Aug 21 08:44	7°♄42'16	-4.7m		5145 Jan 25 05:18	0°♄	
retrograde	5142 Aug 31 19:36	9°♄40'09		max. Earth dist.	5145 Feb 13 15:31	24°♄25'02	1.71152 AU
evening set	5142 Sep 18 11:26	3°♄47'27					
inferior conj	5142 Sep 22 07:09	1°♄26'08	-8°19'48	superior conj	5145 Feb 14 04:40	25°♄06'26	-0°55'47
minimum elong	5142 Sep 22 02:15	1°♄33'48	8°19'27	minimum elong	5145 Feb 13 16:58	24°♄29'36	0°55'20
min. Earth dist.	5142 Sep 22 09:35	1°♄22'20	0.29106 AU		5145 Feb 18 02:02	0°♄	
	5142 Sep 24 14:29	30°♄			5145 Mar 13 22:25	0°♄	
morning rise	5142 Sep 25 17:01	29°♄19'32		evening rise	5145 Mar 27 02:34	16°♄32'31	
direct	5142 Oct 13 21:40	23°♄07'23			5145 Apr 06 20:20	0°♄	
greatest brilliancy	5142 Oct 24 13:02	25°♄11'15	-4.8m		5145 Apr 30 21:58	0°♄	
	5142 Nov 03 05:13	0°♄		asc. node	5145 May 13 06:28	15°♄17'25	

	5145 May 25 05:24	0°☿			5147 Dec 23 05:50	0°♊
	5145 Jun 18 20:45	0°♋			5148 Jan 16 13:47	0°♌
	5145 Jul 13 23:14	0°♍			5148 Feb 09 15:40	0°♎
	5145 Aug 08 19:36	0°♏		desc. node	5148 Feb 17 16:42	10°≈03'46
desc. node	5145 Sep 01 21:37	26°♐37'28			5148 Mar 04 14:23	0°♋
	5145 Sep 05 01:56	0°♌		morning set	5148 Mar 21 22:01	21°♋44'07
evening max el	5145 Sep 23 10:25	18°♌31'37	45°46'21		5148 Mar 28 12:01	0°♍
	5145 Oct 06 03:16	0°♊			5148 Apr 21 10:21	0°♎
greatest brilliancy	5145 Nov 02 01:25	16°♊52'18	-4.8m			
retrograde	5145 Nov 11 05:57	18°♊24'43		superior conj	5148 May 01 06:41	12°♊18'55 -1°17'24
evening set	5145 Nov 27 03:52	13°♊35'48		minimum elong	5148 May 01 15:54	12°♊47'41 1°17'12
inferior conj	5145 Dec 02 05:09	10°♊34'41	-5°08'23	max. Earth dist.	5148 May 05 01:14	17°♊01'34 1.71901 AU
minimum elong	5145 Dec 02 14:52	10°♊19'41	5°05'54		5148 May 15 11:03	0°♋
min. Earth dist.	5145 Dec 03 03:34	10°♊00'06	0.27609 AU		5148 Jun 08 15:14	0°☿
morning rise	5145 Dec 08 01:09	7°♊05'52		evening rise	5148 Jun 09 14:44	1°☿12'41
direct	5145 Dec 23 05:43	2°♊34'19		asc. node	5148 Jun 09 18:24	1°☿23'58
asc. node	5145 Dec 23 23:16	2°♊34'58			5148 Jul 02 23:23	0°♋
greatest brilliancy	5146 Jan 03 09:00	4°♊52'50	-4.9m		5148 Jul 27 11:57	0°♍
	5146 Feb 06 03:16	0°♌			5148 Aug 21 06:09	0°♏
morning max el	5146 Feb 11 19:16	5°♌37'42	46°54'25		5148 Sep 15 08:29	0°♌
	5146 Mar 06 11:41	0°≈		desc. node	5148 Sep 29 09:21	16°♌32'16
	5146 Apr 01 11:10	0°♋			5148 Oct 10 23:07	0°♊
desc. node	5146 Apr 14 14:29	15°♋37'04			5148 Nov 06 10:18	0°♌
	5146 Apr 26 13:46	0°♍			5148 Dec 04 19:14	0°≈
	5146 May 21 07:33	0°♎		evening max el	5148 Dec 05 03:11	0°≈19'40 46°42'02
	5146 Jun 14 21:59	0°♋			5149 Jan 12 11:37	0°♋
	5146 Jul 09 11:23	0°☿		greatest brilliancy	5149 Jan 14 10:00	0°♋45'13 -4.9m
	5146 Aug 02 23:55	0°♋		asc. node	5149 Jan 20 11:08	2°♋19'46
asc. node	5146 Aug 05 16:04	3°♋16'27		retrograde	5149 Jan 24 09:05	2°♋38'04
morning set	5146 Aug 15 10:27	15°♋14'55			5149 Feb 04 17:50	30°♎≈
	5146 Aug 27 10:46	0°♍		evening set	5149 Feb 08 10:09	28°≈09'05
max. Earth dist.	5146 Sep 19 01:18	27°♍49'57	1.73292 AU	inferior conj	5149 Feb 13 22:45	24°≈53'28 5°52'42
				minimum elong	5149 Feb 13 12:00	25°≈09'51 5°50'03
superior conj	5146 Sep 20 23:13	0°♏11'32	1°22'18	min. Earth dist.	5149 Feb 13 12:23	25°≈09'17 0.26710 AU
minimum elong	5146 Sep 20 18:31	29°♍57'00	1°22'15	morning rise	5149 Feb 18 13:58	22°≈07'49
	5146 Sep 20 19:29	0°♏		direct	5149 Mar 06 10:08	17°≈11'40
	5146 Oct 15 02:29	0°♌		greatest brilliancy	5149 Mar 16 00:46	18°≈57'10 -4.9m
evening rise	5146 Oct 27 12:28	15°♌21'09			5149 Apr 03 19:56	0°♋
	5146 Nov 08 08:39	0°♊		morning max el	5149 Apr 25 18:04	19°♋46'55 46°47'12
desc. node	5146 Nov 25 07:11	20°♊57'25			5149 May 05 16:39	0°♍
	5146 Dec 02 14:38	0°♌		desc. node	5149 May 12 02:18	6°♍50'22
	5146 Dec 26 20:43	0°≈			5149 Jun 01 22:07	0°♎
	5147 Jan 20 03:44	0°♋			5149 Jun 27 20:20	0°♋
	5147 Feb 13 14:31	0°♍			5149 Jul 23 05:20	0°☿
	5147 Mar 10 11:22	0°♎			5149 Aug 17 06:40	0°♋
asc. node	5147 Mar 18 08:41	9°♎19'44		asc. node	5149 Sep 02 03:51	19°♋11'09
	5147 Apr 05 07:00	0°♋			5149 Sep 11 01:30	0°♍
evening max el	5147 May 02 00:09	28°♋35'12	46°23'50		5149 Oct 05 14:09	0°♏
	5147 May 03 10:25	0°☿		morning set	5149 Oct 22 18:11	21°♏09'55
greatest brilliancy	5147 Jun 09 20:32	28°☿09'49	-4.8m		5149 Oct 29 21:32	0°♌
	5147 Jun 16 08:40	0°♋			5149 Nov 23 01:12	0°♊
retrograde	5147 Jun 20 20:01	0°♋23'17		max. Earth dist.	5149 Nov 26 09:29	4°♊09'56 1.72188 AU
	5147 Jun 25 05:23	30°♎☿				
evening set	5147 Jul 05 20:30	25°☿59'31		superior conj	5149 Nov 29 02:15	7°♊31'39 0°53'00
desc. node	5147 Jul 07 23:58	24°☿46'08		minimum elong	5149 Nov 29 12:05	8°♊02'17 0°52'37
inferior conj	5147 Jul 12 05:34	22°☿10'00	-1°01'20		5149 Dec 17 02:31	0°♌
minimum elong	5147 Jul 12 03:17	22°☿13'34	1°00'40	desc. node	5149 Dec 22 19:07	7°♌06'33
min. Earth dist.	5147 Jul 11 20:49	22°☿23'41	0.28554 AU	evening rise	5150 Jan 07 12:49	26°♌47'26
morning rise	5147 Jul 18 10:26	18°☿26'32			5150 Jan 10 02:21	0°≈
direct	5147 Aug 02 13:41	14°☿01'15			5150 Feb 03 01:22	0°♋
greatest brilliancy	5147 Aug 12 13:50	15°☿49'01	-4.7m		5150 Feb 27 00:55	0°♍
	5147 Sep 04 20:35	0°♋			5150 Mar 23 03:41	0°♎
morning max el	5147 Sep 20 05:06	13°♋36'26	45°42'23	asc. node	5150 Apr 14 20:35	27°♎55'03
	5147 Oct 06 12:34	0°♍			5150 Apr 16 13:36	0°♋
asc. node	5147 Oct 29 01:37	24°♍37'37			5150 May 11 12:13	0°☿
	5147 Nov 02 19:08	0°♏			5150 Jun 06 08:54	0°♋
	5147 Nov 28 10:38	0°♌			5150 Jul 04 03:28	0°♍

evening max el	5150 Jul 11 16:19	7° \mathbb{M} 28'56	45°37'01		5152 Dec 31 17:45	0° \mathcal{Z}	
desc. node	5150 Aug 04 11:49	27° \mathbb{M} 41'28		morning set	5153 Jan 01 21:57	1° \mathcal{Z} 28'12	
	5150 Aug 07 23:36	0° \mathcal{L}		desc. node	5153 Jan 19 06:49	23° \mathcal{Z} 14'08	
greatest brilliancy	5150 Aug 18 23:35	5° \mathcal{L} 31'48	-4.7m		5153 Jan 24 16:09	0° \approx	
retrograde	5150 Aug 29 11:43	7° \mathcal{L} 30'28		max. Earth dist.	5153 Feb 10 17:58	21° \approx 27'46	1.71163 AU
evening set	5150 Sep 16 00:56	1° \mathcal{L} 41'47					
	5150 Sep 18 19:20	30° \mathbb{R} \mathbb{M}		superior conj	5153 Feb 11 15:08	22° \approx 34'20	-0°52'40
inferior conj	5150 Sep 19 23:20	29° \mathbb{M} 16'10	-8°14'22	minimum elong	5153 Feb 11 03:43	21° \approx 58'26	0°52'12
minimum elong	5150 Sep 19 17:47	29° \mathbb{M} 24'52	8°13'55		5153 Feb 17 12:53	0° \mathbb{H}	
min. Earth dist.	5150 Sep 20 00:25	29° \mathbb{M} 14'28	0.29117 AU		5153 Mar 13 09:16	0° \mathbb{Y}	
morning rise	5150 Sep 23 10:37	27° \mathbb{M} 07'16		evening rise	5153 Mar 24 13:05	14° \mathbb{Y} 00'49	
direct	5150 Oct 11 14:28	20° \mathbb{M} 57'40			5153 Apr 06 07:13	0° \mathcal{B}	
greatest brilliancy	5150 Oct 22 03:36	22° \mathbb{M} 59'27	-4.8m		5153 Apr 30 08:56	0° \mathbb{I}	
	5150 Nov 04 06:23	0° \mathcal{L}		asc. node	5153 May 12 08:35	14° \mathbb{I} 49'54	
asc. node	5150 Nov 25 13:29	17° \mathcal{L} 41'30			5153 May 24 16:34	0° \mathcal{G}	
morning max el	5150 Nov 30 04:34	22° \mathcal{L} 10'42	46°11'46		5153 Jun 18 08:19	0° \mathcal{O}	
	5150 Dec 07 21:44	0° \mathbb{M}			5153 Jul 13 11:35	0° \mathbb{M}	
	5151 Jan 04 03:23	0° \mathcal{A}			5153 Aug 08 09:33	0° \mathcal{L}	
	5151 Jan 29 14:27	0° \mathcal{Z}		desc. node	5153 Aug 31 23:31	25° \mathcal{L} 57'17	
	5151 Feb 23 07:14	0° \approx			5153 Sep 04 19:36	0° \mathbb{M}	
desc. node	5151 Mar 17 04:32	26° \approx 58'09		evening max el	5153 Sep 20 23:26	16° \mathbb{M} 13'24	45°44'59
	5151 Mar 19 15:18	0° \mathbb{H}			5153 Oct 06 11:10	0° \mathcal{A}	
	5151 Apr 12 19:23	0° \mathbb{Y}		greatest brilliancy	5153 Oct 30 15:16	14° \mathcal{A} 34'44	-4.8m
	5151 May 06 22:28	0° \mathcal{B}		retrograde	5153 Nov 08 19:16	16° \mathcal{A} 07'01	
	5151 May 31 02:33	0° \mathbb{I}		evening set	5153 Nov 24 20:38	11° \mathcal{A} 13'12	
morning set	5151 Jun 04 23:27	6° \mathbb{I} 01'59		inferior conj	5153 Nov 29 19:14	8° \mathcal{A} 16'05	-5°25'49
	5151 Jun 24 08:34	0° \mathcal{G}		minimum elong	5153 Nov 30 05:12	8° \mathcal{A} 00'42	5°23'23
asc. node	5151 Jul 08 06:14	17° \mathcal{G} 09'12		min. Earth dist.	5153 Nov 30 18:21	7° \mathcal{A} 40'25	0.27677 AU
				morning rise	5153 Dec 05 12:59	4° \mathcal{A} 50'16	
superior conj	5151 Jul 12 19:14	22° \mathcal{G} 45'07	0°10'54	direct	5153 Dec 20 19:50	0° \mathcal{A} 14'24	
minimum elong	5151 Jul 12 16:53	22° \mathcal{G} 37'51	0°10'46	asc. node	5153 Dec 23 01:14	0° \mathcal{A} 20'17	
behind sun begin	5151 Jul 11 23:37	21° \mathcal{G} 44'38		greatest brilliancy	5154 Jan 01 00:56	2° \mathcal{A} 34'23	-4.9m
behind sun end	5151 Jul 13 10:09	23° \mathcal{G} 31'04			5154 Feb 06 03:17	0° \mathcal{Z}	
max. Earth dist.	5151 Jul 14 09:37	24° \mathcal{G} 43'24	1.73229 AU	morning max el	5154 Feb 09 09:30	3° \mathcal{Z} 15'54	46°53'37
	5151 Jul 18 16:24	0° \mathcal{O}			5154 Mar 06 04:14	0° \approx	
	5151 Aug 12 01:26	0° \mathbb{M}			5154 Apr 01 01:07	0° \mathbb{H}	
evening rise	5151 Aug 18 09:20	7° \mathbb{M} 46'57		desc. node	5154 Apr 13 16:30	15° \mathbb{H} 03'34	
	5151 Sep 05 11:33	0° \mathcal{L}			5154 Apr 26 02:24	0° \mathbb{Y}	
	5151 Sep 29 23:29	0° \mathbb{M}			5154 May 20 19:22	0° \mathcal{B}	
	5151 Oct 24 14:21	0° \mathcal{A}			5154 Jun 14 09:16	0° \mathbb{I}	
desc. node	5151 Oct 27 21:19	3° \mathcal{A} 59'45			5154 Jul 08 22:17	0° \mathcal{G}	
	5151 Nov 18 09:05	0° \mathcal{Z}			5154 Aug 02 10:33	0° \mathcal{O}	
	5151 Dec 13 09:16	0° \approx		asc. node	5154 Aug 04 17:59	2° \mathcal{O} 49'47	
	5152 Jan 07 19:51	0° \mathbb{H}		morning set	5154 Aug 13 04:00	13° \mathcal{O} 09'07	
	5152 Feb 03 08:28	0° \mathbb{Y}			5154 Aug 26 21:16	0° \mathbb{M}	
evening max el	5152 Feb 16 22:44	14° \mathbb{Y} 20'44	47°08'34	max. Earth dist.	5154 Sep 16 21:46	25° \mathbb{M} 52'41	1.73319 AU
asc. node	5152 Feb 17 22:55	15° \mathbb{Y} 21'58					
	5152 Mar 04 11:38	0° \mathcal{B}		superior conj	5154 Sep 18 17:15	28° \mathbb{M} 06'45	1°21'23
greatest brilliancy	5152 Mar 28 11:24	15° \mathcal{B} 41'06	-4.9m	minimum elong	5154 Sep 18 11:58	27° \mathbb{M} 50'29	1°21'19
retrograde	5152 Apr 07 16:00	17° \mathcal{B} 38'46			5154 Sep 20 05:59	0° \mathcal{L}	
evening set	5152 Apr 25 05:32	11° \mathcal{B} 40'25			5154 Oct 14 13:04	0° \mathbb{M}	
inferior conj	5152 Apr 28 13:11	9° \mathcal{B} 37'26	8°11'07	evening rise	5154 Oct 25 04:55	13° \mathbb{M} 10'44	
minimum elong	5152 Apr 28 21:25	9° \mathcal{B} 24'37	8°10'02		5154 Nov 07 19:25	0° \mathcal{A}	
min. Earth dist.	5152 Apr 28 08:11	9° \mathcal{B} 45'15	0.27596 AU	desc. node	5154 Nov 24 09:15	20° \mathcal{A} 30'03	
morning rise	5152 May 02 13:32	7° \mathcal{B} 10'18			5154 Dec 02 01:38	0° \mathcal{Z}	
direct	5152 May 19 09:16	1° \mathcal{B} 44'05			5154 Dec 26 08:03	0° \approx	
greatest brilliancy	5152 May 28 20:20	3° \mathcal{B} 24'13	-4.8m		5155 Jan 19 15:31	0° \mathbb{H}	
desc. node	5152 Jun 08 14:06	8° \mathcal{B} 37'19			5155 Feb 13 02:58	0° \mathbb{Y}	
	5152 Jul 05 00:03	0° \mathbb{I}			5155 Mar 10 00:57	0° \mathcal{B}	
morning max el	5152 Jul 07 17:24	2° \mathbb{I} 36'42	46°01'55	asc. node	5155 Mar 17 10:40	8° \mathcal{B} 44'17	
	5152 Aug 03 04:24	0° \mathcal{G}			5155 Apr 04 22:52	0° \mathbb{I}	
	5152 Aug 30 00:09	0° \mathcal{O}		evening max el	5155 Apr 29 14:59	26° \mathbb{I} 18'52	46°26'00
	5152 Sep 24 18:24	0° \mathbb{M}			5155 May 03 09:02	0° \mathcal{G}	
asc. node	5152 Sep 29 15:46	5° \mathbb{M} 47'48		greatest brilliancy	5155 Jun 07 12:37	25° \mathcal{G} 58'01	-4.8m
	5152 Oct 19 20:12	0° \mathcal{L}		retrograde	5155 Jun 18 12:34	28° \mathcal{G} 12'08	
	5152 Nov 13 10:18	0° \mathbb{M}		evening set	5155 Jul 03 12:43	23° \mathcal{G} 47'40	
	5152 Dec 07 16:28	0° \mathcal{A}		desc. node	5155 Jul 07 01:53	21° \mathcal{G} 43'38	

inferior conj	5155 Jul 09 21:22	19°☿58'58 -0°40'52			5157 Dec 16 13:16	0°☿	
minimum elong	5155 Jul 09 19:51	20°☿01'21 0°40'24		desc. node	5157 Dec 21 21:04	6°☿38'59	
min. Earth dist.	5155 Jul 09 12:49	20°☿12'20 0.28520 AU		evening rise	5158 Jan 05 01:10	24°☿21'50	
morning rise	5155 Jul 16 03:24	16°☿14'21			5158 Jan 09 13:16	0°☿	
direct	5155 Jul 31 04:55	11°☿50'35			5158 Feb 02 12:27	0°☿	
greatest brilliancy	5155 Aug 10 05:11	13°☿38'45 -4.7m			5158 Feb 26 12:11	0°☿	
	5155 Sep 05 03:20	0°☿			5158 Mar 22 15:12	0°☿	
morning max el	5155 Sep 17 21:18	11°☿27'55 45°42'11		asc. node	5158 Apr 13 22:42	27°☿25'04	
	5155 Oct 06 05:45	0°☿			5158 Apr 16 01:36	0°☿	
asc. node	5155 Oct 28 03:46	24°☿03'30			5158 May 11 01:06	0°☿	
	5155 Nov 02 08:55	0°☿			5158 Jun 05 23:40	0°☿	
	5155 Nov 27 23:01	0°☿			5158 Jul 03 23:10	0°☿	
	5155 Dec 22 17:31	0°☿		evening max el	5158 Jul 09 08:19	5°☿18'37 45°37'50	
	5156 Jan 16 01:05	0°☿		desc. node	5158 Aug 03 13:50	26°☿29'53	
	5156 Feb 09 02:43	0°☿			5158 Aug 09 07:04	0°☿	
desc. node	5156 Feb 16 18:40	9°☿35'24		greatest brilliancy	5158 Aug 16 15:05	3°☿22'38 -4.7m	
	5156 Mar 04 01:18	0°☿		retrograde	5158 Aug 27 03:28	5°☿21'33	
morning set	5156 Mar 19 08:08	19°☿11'10			5158 Sep 12 22:56	30°☿☿	
	5156 Mar 27 22:49	0°☿		evening set	5158 Sep 13 14:22	29°☿37'13	
	5156 Apr 20 21:05	0°☿		inferior conj	5158 Sep 17 15:37	27°☿07'06 -8°08'16	
				minimum elong	5158 Sep 17 09:27	27°☿16'48 8°07'42	
superior conj	5156 Apr 28 19:02	9°☿54'04 -1°19'04		min. Earth dist.	5158 Sep 17 15:44	27°☿06'55 0.29124 AU	
minimum elong	5156 Apr 29 03:43	10°☿21'11 1°18'54		morning rise	5158 Sep 21 04:30	24°☿55'32	
max. Earth dist.	5156 May 02 11:46	14°☿31'15 1.71854 AU		direct	5158 Oct 09 06:52	18°☿48'50	
	5156 May 14 21:44	0°☿		greatest brilliancy	5158 Oct 19 18:37	20°☿48'53 -4.8m	
evening rise	5156 Jun 07 05:28	28°☿56'50			5158 Nov 05 00:28	0°☿	
	5156 Jun 08 01:54	0°☿		asc. node	5158 Nov 24 15:27	16°☿50'44	
asc. node	5156 Jun 08 20:24	0°☿57'10		morning max el	5158 Nov 27 18:56	19°☿54'32 46°10'09	
	5156 Jul 02 10:08	0°☿			5158 Dec 07 16:35	0°☿	
	5156 Jul 26 22:55	0°☿			5159 Jan 03 18:02	0°☿	
	5156 Aug 20 17:32	0°☿			5159 Jan 29 03:28	0°☿	
	5156 Sep 14 20:38	0°☿			5159 Feb 22 19:26	0°☿	
desc. node	5156 Sep 28 11:26	16°☿00'53		desc. node	5159 Mar 16 06:37	26°☿28'14	
	5156 Oct 10 12:40	0°☿			5159 Mar 19 03:00	0°☿	
	5156 Nov 06 02:35	0°☿			5159 Apr 12 06:44	0°☿	
evening max el	5156 Dec 02 17:53	28°☿00'17 46°40'03			5159 May 06 09:32	0°☿	
	5156 Dec 04 18:45	0°☿			5159 May 30 13:24	0°☿	
greatest brilliancy	5157 Jan 11 22:13	28°☿17'13 -4.9m		morning set	5159 Jun 02 14:30	3°☿46'28	
	5157 Jan 19 00:26	0°☿			5159 Jun 23 19:17	0°☿	
asc. node	5157 Jan 19 13:06	0°☿03'18		asc. node	5159 Jul 07 08:07	16°☿42'11	
retrograde	5157 Jan 21 22:01	0°☿10'03					
	5157 Jan 24 18:35	30°☿☿		superior conj	5159 Jul 10 11:48	20°☿35'28 0°07'36	
evening set	5157 Feb 05 19:31	25°☿45'35		minimum elong	5159 Jul 10 10:09	20°☿30'23 0°07'29	
inferior conj	5157 Feb 11 11:00	22°☿25'48 5°33'33		behind sun begin	5159 Jul 09 13:26	19°☿26'32	
minimum elong	5157 Feb 11 00:30	22°☿41'50 5°30'51		behind sun end	5159 Jul 11 06:52	21°☿34'14	
min. Earth dist.	5157 Feb 11 01:05	22°☿40'57 0.26695 AU		max. Earth dist.	5159 Jul 12 05:33	22°☿44'08 1.73197 AU	
morning rise	5157 Feb 16 05:39	19°☿35'30			5159 Jul 18 03:02	0°☿	
direct	5157 Mar 03 23:06	14°☿44'19			5159 Aug 11 12:06	0°☿	
greatest brilliancy	5157 Mar 13 13:31	16°☿29'55 -4.9m		evening rise	5159 Aug 16 03:30	5°☿42'24	
	5157 Apr 04 10:01	0°☿			5159 Sep 04 22:21	0°☿	
morning max el	5157 Apr 23 07:48	17°☿24'15 46°48'20			5159 Sep 29 10:33	0°☿	
	5157 May 05 12:01	0°☿			5159 Oct 24 01:51	0°☿	
desc. node	5157 May 11 04:27	6°☿07'20		desc. node	5159 Oct 26 23:25	3°☿31'02	
	5157 Jun 01 13:06	0°☿			5159 Nov 17 21:16	0°☿	
	5157 Jun 27 09:22	0°☿			5159 Dec 12 22:28	0°☿	
	5157 Jul 22 17:18	0°☿			5160 Jan 07 10:47	0°☿	
	5157 Aug 16 17:58	0°☿			5160 Feb 03 03:14	0°☿	
asc. node	5157 Sep 01 05:54	18°☿43'56		evening max el	5160 Feb 14 11:53	11°☿55'13 47°08'42	
	5157 Sep 10 12:24	0°☿		asc. node	5160 Feb 17 00:55	14°☿28'57	
	5157 Oct 05 00:49	0°☿			5160 Mar 04 21:26	0°☿	
morning set	5157 Oct 20 11:10	19°☿01'20		greatest brilliancy	5160 Mar 26 02:54	13°☿19'59 -4.9m	
	5157 Oct 29 08:08	0°☿		retrograde	5160 Apr 05 05:37	15°☿16'13	
	5157 Nov 22 11:49	0°☿		evening set	5160 Apr 22 22:18	9°☿14'13	
max. Earth dist.	5157 Nov 23 22:53	1°☿49'06 1.72235 AU		inferior conj	5160 Apr 26 03:01	7°☿15'41 8°20'38	
				minimum elong	5160 Apr 26 10:38	7°☿03'48 8°19'43	
superior conj	5157 Nov 26 17:08	5°☿15'20 0°55'42		min. Earth dist.	5160 Apr 25 22:01	7°☿23'30 0.27563 AU	
minimum elong	5157 Nov 27 03:05	5°☿46'19 0°55'21		morning rise	5160 Apr 29 23:10	4°☿54'34	

	5160 May 11 08:58	30° Υ		evening rise	5162 Oct 22 21:31	11° \mathbb{M} 00'01	
direct	5160 May 16 22:04	29° Υ 22'49			5162 Nov 07 06:27	0° \mathcal{X}	
	5160 May 22 14:47	0° \mathcal{B}		desc. node	5162 Nov 23 11:10	20° \mathcal{X} 01'22	
greatest brilliancy	5160 May 26 09:40	1° \mathcal{B} 02'58	-4.8m		5162 Dec 01 12:57	0° \mathcal{B}	
desc. node	5160 Jun 07 16:01	7° \mathcal{B} 13'41			5162 Dec 25 19:41	0° \approx	
	5160 Jul 04 23:44	0° \mathbb{I}			5163 Jan 19 03:36	0° \mathcal{H}	
morning max el	5160 Jul 05 06:32	0° \mathbb{I} 16'27	46°03'25		5163 Feb 12 15:43	0° Υ	
	5160 Aug 02 20:35	0° \mathcal{E}			5163 Mar 09 14:51	0° \mathcal{B}	
	5160 Aug 29 13:39	0° Ω		asc. node	5163 Mar 16 12:47	8° \mathcal{B} 08'18	
	5160 Sep 24 06:36	0° \mathbb{P}			5163 Apr 04 15:14	0° \mathbb{I}	
asc. node	5160 Sep 28 17:50	5° \mathbb{P} 18'06		evening max el	5163 Apr 27 06:44	24° \mathbb{I} 04'09	46°28'02
	5160 Oct 19 07:43	0° \mathcal{E}			5163 May 03 08:58	0° \mathcal{E}	
	5160 Nov 12 21:27	0° \mathbb{M}		greatest brilliancy	5163 Jun 05 04:35	23° \mathcal{E} 45'10	-4.8m
	5160 Dec 07 03:27	0° \mathcal{X}		retrograde	5163 Jun 16 05:18	25° \mathcal{E} 59'48	
morning set	5160 Dec 30 10:57	29° \mathcal{X} 04'31		evening set	5163 Jul 01 05:08	21° \mathcal{E} 34'36	
	5160 Dec 31 04:41	0° \mathcal{B}		desc. node	5163 Jul 06 03:55	18° \mathcal{E} 38'35	
desc. node	5161 Jan 18 08:49	22° \mathcal{B} 46'13		min. Earth dist.	5163 Jul 07 04:40	18° \mathcal{E} 00'00	0.28487 AU
	5161 Jan 24 03:04	0° \approx		inferior conj	5163 Jul 07 13:10	17° \mathcal{E} 46'44	-0°20'09
max. Earth dist.	5161 Feb 07 23:57	18° \approx 41'20	1.71181 AU	minimum elong	5163 Jul 07 12:25	17° \mathcal{E} 47'55	0°19'56
				morning rise	5163 Jul 13 20:12	14° \mathcal{E} 01'10	
superior conj	5161 Feb 09 01:55	20° \approx 02'57	-0°49'27	direct	5163 Jul 28 20:40	9° \mathcal{E} 38'48	
minimum elong	5161 Feb 08 14:52	19° \approx 28'15	0°48'59	greatest brilliancy	5163 Aug 07 20:08	11° \mathcal{E} 26'48	-4.7m
	5161 Feb 16 23:48	0° \mathcal{H}			5163 Sep 05 08:28	0° Ω	
	5161 Mar 12 20:15	0° Υ		morning max el	5163 Sep 15 13:55	9° Ω 19'20	45°42'00
evening rise	5161 Mar 21 23:41	11° Υ 28'54			5163 Oct 05 22:58	0° \mathbb{P}	
	5161 Apr 05 18:17	0° \mathcal{B}		asc. node	5163 Oct 27 05:44	23° \mathbb{P} 28'10	
	5161 Apr 29 20:08	0° \mathbb{I}			5163 Nov 01 22:54	0° \mathcal{E}	
asc. node	5161 May 11 10:32	14° \mathbb{I} 21'09			5163 Nov 27 11:38	0° \mathbb{M}	
	5161 May 24 03:58	0° \mathcal{E}			5163 Dec 22 05:27	0° \mathcal{X}	
	5161 Jun 17 20:07	0° Ω			5164 Jan 15 12:40	0° \mathcal{B}	
	5161 Jul 13 00:13	0° \mathbb{P}			5164 Feb 08 14:05	0° \approx	
	5161 Aug 07 23:52	0° \mathcal{E}		desc. node	5164 Feb 15 20:45	9° \approx 06'31	
desc. node	5161 Aug 31 01:37	25° \mathcal{E} 16'38			5164 Mar 03 12:32	0° \mathcal{H}	
	5161 Sep 04 13:55	0° \mathbb{M}		morning set	5164 Mar 16 18:34	16° \mathcal{H} 38'14	
evening max el	5161 Sep 18 13:04	13° \mathbb{M} 56'23	45°43'46		5164 Mar 27 09:56	0° Υ	
	5161 Oct 06 22:11	0° \mathcal{X}			5164 Apr 20 08:06	0° \mathcal{B}	
greatest brilliancy	5161 Oct 28 04:36	12° \mathcal{X} 16'30	-4.8m				
retrograde	5161 Nov 06 09:08	13° \mathcal{X} 49'19		superior conj	5164 Apr 26 07:37	7° \mathcal{B} 28'59	-1°20'35
evening set	5161 Nov 22 13:33	8° \mathcal{X} 50'22		minimum elong	5164 Apr 26 15:40	7° \mathcal{B} 54'10	1°20'26
inferior conj	5161 Nov 27 09:23	5° \mathcal{X} 57'16	-5°42'38	max. Earth dist.	5164 Apr 30 01:05	12° \mathcal{B} 08'37	1.71805 AU
minimum elong	5161 Nov 27 19:32	5° \mathcal{X} 41'38	5°40'15		5164 May 14 08:41	0° \mathbb{I}	
min. Earth dist.	5161 Nov 28 08:53	5° \mathcal{X} 21'04	0.27746 AU	evening rise	5164 Jun 04 20:22	26° \mathbb{I} 40'33	
morning rise	5161 Dec 03 00:46	2° \mathcal{X} 34'54		asc. node	5164 Jun 07 22:21	0° \mathcal{E} 29'19	
	5161 Dec 08 07:33	30° \mathcal{R} \mathbb{M}			5164 Jun 07 12:51	0° \mathcal{E}	
direct	5161 Dec 18 10:38	27° \mathbb{M} 54'20			5164 Jul 01 21:12	0° Ω	
asc. node	5161 Dec 22 03:10	28° \mathbb{M} 10'27			5164 Jul 26 10:15	0° \mathbb{P}	
	5161 Dec 29 00:37	0° \mathcal{X}			5164 Aug 20 05:19	0° \mathcal{E}	
greatest brilliancy	5161 Dec 29 16:34	0° \mathcal{X} 15'28	-4.9m		5164 Sep 14 09:13	0° \mathbb{M}	
	5162 Feb 06 02:23	0° \mathcal{B}		desc. node	5164 Sep 27 13:29	15° \mathbb{M} 28'10	
morning max el	5162 Feb 07 00:46	0° \mathcal{B} 56'30	46°52'53		5164 Oct 10 02:42	0° \mathcal{X}	
	5162 Mar 05 20:37	0° \approx			5164 Nov 05 19:32	0° \mathcal{B}	
	5162 Mar 31 15:04	0° \mathcal{H}		evening max el	5164 Nov 30 08:32	25° \mathcal{B} 40'03	46°38'01
desc. node	5162 Apr 12 18:35	14° \mathcal{H} 29'59			5164 Dec 04 19:46	0° \approx	
	5162 Apr 25 15:08	0° Υ		greatest brilliancy	5165 Jan 09 11:04	25° \approx 49'22	-4.9m
	5162 May 20 07:24	0° \mathcal{B}		asc. node	5165 Jan 18 15:11	27° \approx 40'31	
	5162 Jun 13 20:49	0° \mathbb{I}		retrograde	5165 Jan 19 10:37	27° \approx 41'19	
	5162 Jul 08 09:28	0° \mathcal{E}		evening set	5165 Feb 03 05:16	23° \approx 21'15	
	5162 Aug 01 21:28	0° Ω		inferior conj	5165 Feb 08 23:22	19° \approx 57'37	5°13'46
asc. node	5162 Aug 03 20:04	2° Ω 22'47		minimum elong	5165 Feb 08 13:13	20° \approx 13'09	5°11'03
morning set	5162 Aug 10 21:23	11° Ω 01'54		min. Earth dist.	5165 Feb 08 14:18	20° \approx 11'29	0.26683 AU
	5162 Aug 26 08:03	0° \mathbb{P}		morning rise	5165 Feb 13 21:19	17° \approx 02'31	
max. Earth dist.	5162 Sep 14 19:46	23° \mathbb{P} 59'24	1.73340 AU	direct	5165 Mar 01 11:57	12° \approx 16'21	
				greatest brilliancy	5165 Mar 11 02:54	14° \approx 02'19	-4.9m
superior conj	5162 Sep 16 11:10	26° \mathbb{P} 00'51	1°20'22		5165 Apr 04 20:56	0° \mathcal{H}	
minimum elong	5162 Sep 16 05:21	25° \mathbb{P} 42'55	1°20'16	morning max el	5165 Apr 20 20:51	14° \mathcal{H} 58'50	46°49'33
	5162 Sep 19 16:44	0° \mathcal{E}			5165 May 05 07:11	0° Υ	
	5162 Oct 13 23:55	0° \mathbb{M}		desc. node	5165 May 10 06:19	5° Υ 23'12	

	5165 Jun 01 04:10	0°♄			5167 Nov 17 09:43	0°♄	
	5165 Jun 26 22:34	0°♄			5167 Dec 12 11:58	0°♄	
	5165 Jul 22 05:28	0°♄			5168 Jan 07 02:07	0°♄	
	5165 Aug 16 05:31	0°♄			5168 Feb 02 22:42	0°♄	
asc. node	5165 Aug 31 07:57	18°♄15'53		evening max el	5168 Feb 12 00:41	9°♄28'25	47°08'57
	5165 Sep 09 23:35	0°♄		asc. node	5168 Feb 16 02:59	13°♄34'42	
	5165 Oct 04 11:49	0°♄			5168 Mar 05 10:48	0°♄	
morning set	5165 Oct 18 04:07	16°♄51'45		greatest brilliancy	5168 Mar 23 17:58	10°♄57'55	-4.9m
	5165 Oct 28 19:03	0°♄		retrograde	5168 Apr 02 19:21	12°♄53'30	
max. Earth dist.	5165 Nov 21 11:16	29°♄24'18	1.72281 AU	evening set	5168 Apr 20 14:53	6°♄47'42	
	5165 Nov 21 22:45	0°♄		inferior conj	5168 Apr 23 16:53	4°♄53'30	8°29'13
				minimum elong	5168 Apr 23 23:51	4°♄42'39	8°28'28
superior conj	5165 Nov 24 08:11	2°♄58'43	0°58'19	min. Earth dist.	5168 Apr 23 11:48	5°♄01'25	0.27534 AU
minimum elong	5165 Nov 24 18:11	3°♄29'50	0°57'58	morning rise	5168 Apr 27 08:58	2°♄38'27	
	5165 Dec 16 00:18	0°♄			5168 May 02 06:09	30°♄	
desc. node	5165 Dec 20 23:03	6°♄10'43		direct	5168 May 14 10:49	27°♄00'50	
evening rise	5166 Jan 02 13:39	21°♄55'58		greatest brilliancy	5168 May 23 23:12	28°♄41'29	-4.8m
	5166 Jan 09 00:27	0°♄			5168 May 27 07:57	0°♄	
	5166 Feb 01 23:48	0°♄		desc. node	5168 Jun 06 18:05	5°♄52'34	
	5166 Feb 25 23:45	0°♄		morning max el	5168 Jul 02 20:33	27°♄57'49	46°05'01
	5166 Mar 22 03:04	0°♄			5168 Jul 04 22:35	0°♄	
asc. node	5166 Apr 13 00:37	26°♄53'27			5168 Aug 02 12:36	0°♄	
	5166 Apr 15 13:57	0°♄			5168 Aug 29 03:07	0°♄	
	5166 May 10 14:23	0°♄			5168 Sep 23 18:48	0°♄	
	5166 Jun 05 14:52	0°♄		asc. node	5168 Sep 27 19:49	4°♄48'07	
	5166 Jul 03 19:45	0°♄			5168 Oct 18 19:15	0°♄	
evening max el	5166 Jul 06 23:31	3°♄05'41	45°38'43		5168 Nov 12 08:39	0°♄	
desc. node	5166 Aug 02 15:53	25°♄15'46			5168 Dec 06 14:32	0°♄	
	5166 Aug 11 06:34	0°♄		morning set	5168 Dec 27 23:58	26°♄40'36	
greatest brilliancy	5166 Aug 14 06:43	1°♄13'07	-4.7m		5168 Dec 30 15:44	0°♄	
retrograde	5166 Aug 24 19:06	3°♄12'25		desc. node	5169 Jan 17 10:58	22°♄18'22	
	5166 Sep 06 15:10	30°♄			5169 Jan 23 14:06	0°♄	
evening set	5166 Sep 11 03:49	27°♄32'22		max. Earth dist.	5169 Feb 05 07:56	16°♄00'51	1.71198 AU
inferior conj	5166 Sep 15 08:02	24°♄57'48	-8°01'31				
minimum elong	5166 Sep 15 01:17	25°♄08'25	8°00'48	superior conj	5169 Feb 06 12:24	17°♄30'19	-0°46'07
min. Earth dist.	5166 Sep 15 07:30	24°♄58'38	0.29133 AU	minimum elong	5169 Feb 06 01:49	16°♄57'04	0°45'39
morning rise	5166 Sep 18 22:43	22°♄43'18			5169 Feb 16 10:51	0°♄	
direct	5166 Oct 06 22:55	16°♄39'31			5169 Mar 12 07:19	0°♄	
greatest brilliancy	5166 Oct 17 10:33	18°♄38'44	-4.8m	evening rise	5169 Mar 19 10:04	8°♄56'10	
	5166 Nov 05 14:16	0°♄			5169 Apr 05 05:25	0°♄	
asc. node	5166 Nov 23 17:23	15°♄59'56			5169 Apr 29 07:23	0°♄	
morning max el	5166 Nov 25 09:11	17°♄37'16	46°08'35	asc. node	5169 May 10 12:30	13°♄52'17	
	5166 Dec 07 11:15	0°♄			5169 May 23 15:27	0°♄	
	5167 Jan 03 08:48	0°♄			5169 Jun 17 08:03	0°♄	
	5167 Jan 28 16:39	0°♄			5169 Jul 12 13:00	0°♄	
	5167 Feb 22 07:48	0°♄			5169 Aug 07 14:23	0°♄	
desc. node	5167 Mar 15 08:39	25°♄57'35		desc. node	5169 Aug 30 03:40	24°♄35'25	
	5167 Mar 18 14:53	0°♄			5169 Sep 04 08:41	0°♄	
	5167 Apr 11 18:16	0°♄		evening max el	5169 Sep 16 03:39	11°♄41'59	45°42'40
	5167 May 05 20:48	0°♄			5169 Oct 07 12:47	0°♄	
	5167 May 30 00:28	0°♄		greatest brilliancy	5169 Oct 25 17:18	9°♄58'22	-4.8m
morning set	5167 May 31 05:26	1°♄29'47		retrograde	5169 Nov 03 23:23	11°♄32'13	
	5167 Jun 23 06:12	0°♄		evening set	5169 Nov 20 06:39	6°♄28'14	
asc. node	5167 Jul 06 10:14	16°♄15'18		inferior conj	5169 Nov 24 23:38	3°♄38'59	-5°58'47
				minimum elong	5169 Nov 25 09:54	3°♄23'11	5°56'26
superior conj	5167 Jul 08 04:29	18°♄25'34	0°04'16	min. Earth dist.	5169 Nov 25 23:03	3°♄02'57	0.27818 AU
minimum elong	5167 Jul 08 03:33	18°♄22'39	0°04'12	morning rise	5169 Nov 30 12:30	0°♄20'20	
behind sun begin	5167 Jul 07 04:57	17°♄12'59			5169 Dec 01 03:11	30°♄	
behind sun end	5167 Jul 09 02:09	19°♄32'19		direct	5169 Dec 16 02:03	25°♄35'04	
max. Earth dist.	5167 Jul 10 00:06	20°♄39'59	1.73161 AU	asc. node	5169 Dec 21 05:18	26°♄06'06	
	5167 Jul 17 13:52	0°♄		greatest brilliancy	5169 Dec 27 07:41	27°♄56'26	-4.9m
	5167 Aug 10 22:55	0°♄			5169 Dec 31 18:45	0°♄	
evening rise	5167 Aug 13 21:53	3°♄38'04		morning max el	5170 Feb 04 16:39	28°♄38'45	46°51'51
	5167 Sep 04 09:19	0°♄			5170 Feb 06 00:35	0°♄	
	5167 Sep 28 21:49	0°♄			5170 Mar 05 12:47	0°♄	
	5167 Oct 23 13:36	0°♄			5170 Mar 31 04:56	0°♄	
desc. node	5167 Oct 26 01:19	3°♄01'00		desc. node	5170 Apr 11 20:32	13°♄56'04	




































































































































	5170 Apr 25 03:49	0°♿			5172 Nov 05 12:29	0°♿	
	5170 May 19 19:20	0°♿		evening max el	5172 Nov 27 22:35	23°♿19'30	46°36'03
	5170 Jun 13 08:14	0°♿			5172 Dec 04 21:38	0°♿	
	5170 Jul 07 20:32	0°♿		greatest brilliancy	5173 Jan 07 00:31	23°♿23'51	-4.9m
	5170 Aug 01 08:17	0°♿		retrograde	5173 Jan 16 22:47	25°♿14'23	
asc. node	5170 Aug 02 22:05	1°♿55'50		asc. node	5173 Jan 17 17:10	25°♿13'41	
morning set	5170 Aug 08 14:47	8°♿54'59		evening set	5173 Jan 31 15:26	20°♿58'22	
	5170 Aug 25 18:44	0°♿		inferior conj	5173 Feb 06 11:57	17°♿31'25	4°53'24
max. Earth dist.	5170 Sep 12 17:37	22°♿05'57	1.73355 AU	minimum elong	5173 Feb 06 02:11	17°♿46'21	4°50'44
				min. Earth dist.	5173 Feb 06 04:02	17°♿43'32	0.26673 AU
superior conj	5170 Sep 14 05:13	23°♿55'38	1°19'14	morning rise	5173 Feb 11 13:02	14°♿31'37	
minimum elong	5170 Sep 13 22:53	23°♿36'07	1°19'07	direct	5173 Feb 27 00:30	9°♿50'12	
	5170 Sep 19 03:24	0°♿		greatest brilliancy	5173 Mar 08 17:04	11°♿37'12	-4.9m
	5170 Oct 13 10:39	0°♿			5173 Apr 05 04:24	0°♿	
evening rise	5170 Oct 20 14:23	8°♿50'32		morning max el	5173 Apr 18 09:02	12°♿32'12	46°50'30
	5170 Nov 06 17:21	0°♿			5173 May 05 01:27	0°♿	
desc. node	5170 Nov 22 13:15	19°♿33'39		desc. node	5173 May 09 08:25	4°♿41'12	
	5170 Dec 01 00:05	0°♿			5173 May 31 18:44	0°♿	
	5170 Dec 25 07:12	0°♿			5173 Jun 26 11:25	0°♿	
	5171 Jan 18 15:37	0°♿			5173 Jul 21 17:20	0°♿	
	5171 Feb 12 04:28	0°♿			5173 Aug 15 16:46	0°♿	
asc. node	5171 Mar 09 04:50	0°♿		asc. node	5173 Aug 30 09:53	17°♿48'26	
	5171 Mar 15 14:42	7°♿31'35			5173 Sep 09 10:27	0°♿	
	5171 Apr 04 07:51	0°♿			5173 Oct 03 22:29	0°♿	
evening max el	5171 Apr 24 22:59	21°♿50'41	46°30'08	morning set	5173 Oct 15 20:55	14°♿42'36	
	5171 May 03 10:02	0°♿			5173 Oct 28 05:38	0°♿	
greatest brilliancy	5171 Jun 02 20:43	21°♿32'34	-4.8m	max. Earth dist.	5173 Nov 19 00:28	27°♿02'58	1.72327 AU
retrograde	5171 Jun 13 21:44	23°♿47'05			5173 Nov 21 09:23	0°♿	
evening set	5171 Jun 28 21:36	19°♿21'16					
inferior conj	5171 Jul 05 04:47	15°♿34'17	0°00'45	superior conj	5173 Nov 21 23:21	0°♿43'27	1°00'50
minimum elong	5171 Jul 05 04:48	15°♿34'14	0°00'43	minimum elong	5173 Nov 22 09:20	1°♿14'30	1°00'29
transit middle	5171 Jul 05 04:48	15°♿34'14	0°00'43		5173 Dec 15 11:01	0°♿	
transit begin	5171 Jul 05 00:45	15°♿40'34		desc. node	5173 Dec 20 01:10	5°♿43'48	
transit end	5171 Jul 05 08:51	15°♿27'54		evening rise	5173 Dec 31 02:23	19°♿32'02	
min. Earth dist.	5171 Jul 04 20:19	15°♿47'30	0.28451 AU		5174 Jan 08 11:17	0°♿	
desc. node	5171 Jul 05 06:01	15°♿32'21			5174 Feb 01 10:46	0°♿	
morning rise	5171 Jul 11 12:37	11°♿47'50			5174 Feb 25 10:54	0°♿	
direct	5171 Jul 26 12:30	7°♿27'01			5174 Mar 21 14:31	0°♿	
greatest brilliancy	5171 Aug 05 10:34	9°♿14'14	-4.7m	asc. node	5174 Apr 12 02:38	26°♿23'14	
	5171 Sep 05 11:38	0°♿			5174 Apr 15 01:57	0°♿	
morning max el	5171 Sep 13 05:56	7°♿09'48	45°41'53		5174 May 10 03:23	0°♿	
	5171 Oct 05 15:38	0°♿			5174 Jun 05 05:59	0°♿	
asc. node	5171 Oct 26 07:39	22°♿53'33			5174 Jul 03 16:46	0°♿	
	5171 Nov 01 12:31	0°♿		evening max el	5174 Jul 04 14:07	0°♿51'55	45°39'39
	5171 Nov 26 23:56	0°♿		desc. node	5174 Aug 01 17:54	23°♿59'59	
	5171 Dec 21 17:04	0°♿		greatest brilliancy	5174 Aug 11 22:00	29°♿03'40	-4.7m
	5172 Jan 14 23:56	0°♿			5174 Aug 14 20:33	0°♿	
	5172 Feb 08 01:10	0°♿		retrograde	5174 Aug 22 10:47	1°♿04'01	
desc. node	5172 Feb 14 22:45	8°♿38'12			5174 Aug 29 19:20	30°♿	
	5172 Mar 02 23:30	0°♿		evening set	5174 Sep 08 16:59	25°♿28'06	
morning set	5172 Mar 14 04:44	14°♿05'11		inferior conj	5174 Sep 13 00:22	22°♿49'05	-7°53'55
	5172 Mar 26 20:50	0°♿		minimum elong	5174 Sep 12 17:04	23°♿00'33	7°53'05
	5172 Apr 19 18:55	0°♿		min. Earth dist.	5174 Sep 12 23:13	22°♿50'53	0.29140 AU
				morning rise	5174 Sep 16 17:04	20°♿31'31	
superior conj	5172 Apr 23 19:40	5°♿02'44	-1°21'58	direct	5174 Oct 04 14:42	14°♿30'40	
minimum elong	5172 Apr 24 03:00	5°♿25'40	1°21'51	greatest brilliancy	5174 Oct 15 02:50	16°♿29'53	-4.7m
max. Earth dist.	5172 Apr 27 14:14	9°♿45'57	1.71756 AU		5174 Nov 06 00:06	0°♿	
	5172 May 13 19:26	0°♿		asc. node	5174 Nov 22 19:34	15°♿11'30	
evening rise	5172 Jun 02 10:34	24°♿22'41		morning max el	5174 Nov 22 23:40	15°♿21'33	46°07'06
	5172 Jun 06 23:37	0°♿			5174 Dec 07 05:08	0°♿	
asc. node	5172 Jun 07 00:26	0°♿02'31			5175 Jan 02 23:04	0°♿	
	5172 Jul 01 08:04	0°♿			5175 Jan 28 05:25	0°♿	
	5172 Jul 25 21:21	0°♿			5175 Feb 21 19:46	0°♿	
	5172 Aug 19 16:54	0°♿		desc. node	5175 Mar 14 10:35	25°♿27'58	
	5172 Sep 13 21:38	0°♿			5175 Mar 18 02:20	0°♿	
desc. node	5172 Sep 26 15:24	14°♿55'40			5175 Apr 11 05:21	0°♿	
	5172 Oct 09 16:36	0°♿			5175 May 05 07:38	0°♿	

morning set	5175 May 28 20:27	29°♄14'27		greatest brilliancy	5177 Oct 23 06:10	7°♄41'10	-4.8m
	5175 May 29 11:08	0°♄		retrograde	5177 Nov 01 13:41	9°♄15'40	
	5175 Jun 22 16:46	0°♄		evening set	5177 Nov 17 23:53	4°♄07'00	
superior conj	5175 Jul 05 21:05	16°♄16'20	0°00'54	inferior conj	5177 Nov 22 13:59	1°♄21'28	-6°14'07
minimum elong	5175 Jul 05 20:54	16°♄15'46	0°00'53	minimum elong	5177 Nov 23 00:17	1°♄05'35	6°11'52
behind sun begin	5175 Jul 04 21:40	15°♄04'06		min. Earth dist.	5177 Nov 23 13:05	0°♄45'53	0.27887 AU
behind sun end	5175 Jul 06 20:08	17°♄27'25			5177 Nov 24 19:02	30°♄	
asc. node	5175 Jul 05 12:15	15°♄49'06		morning rise	5177 Nov 28 00:09	28°♄06'34	
max. Earth dist.	5175 Jul 07 17:29	18°♄33'15	1.73131 AU	direct	5177 Dec 13 17:43	23°♄16'46	
	5175 Jul 17 00:23	0°♄		asc. node	5177 Dec 20 07:16	24°♄07'02	
	5175 Aug 10 09:27	0°♄		greatest brilliancy	5177 Dec 24 22:21	25°♄37'28	-4.9m
evening rise	5175 Aug 11 16:07	1°♄34'13			5178 Jan 02 10:57	0°♄	
	5175 Sep 03 19:59	0°♄		morning max el	5178 Feb 02 08:04	26°♄20'24	46°50'40
	5175 Sep 28 08:48	0°♄			5178 Feb 05 21:47	0°♄	
	5175 Oct 23 01:04	0°♄			5178 Mar 05 04:32	0°♄	
desc. node	5175 Oct 25 03:24	2°♄32'24		desc. node	5178 Mar 30 18:34	0°♄	
	5175 Nov 16 21:55	0°♄			5178 Apr 10 22:34	13°♄22'56	
	5175 Dec 12 01:17	0°♄			5178 Apr 24 16:19	0°♄	
	5176 Jan 06 17:23	0°♄			5178 May 19 07:08	0°♄	
	5176 Feb 02 18:24	0°♄			5178 Jun 12 19:31	0°♄	
evening max el	5176 Feb 09 14:08	7°♄04'17	47°09'17		5178 Jul 07 07:26	0°♄	
asc. node	5176 Feb 15 04:58	12°♄40'06		asc. node	5178 Jul 31 18:57	0°♄	
	5176 Mar 06 04:01	0°♄		morning set	5178 Aug 02 00:01	1°♄29'06	
greatest brilliancy	5176 Mar 21 08:31	8°♄36'29	-4.9m		5178 Aug 06 08:35	6°♄49'44	
retrograde	5176 Mar 31 09:39	10°♄32'19			5178 Aug 25 05:18	0°♄	
evening set	5176 Apr 18 07:19	4°♄22'51		max. Earth dist.	5178 Sep 10 14:56	20°♄11'12	1.73373 AU
inferior conj	5176 Apr 21 06:51	2°♄32'41	8°36'49	superior conj	5178 Sep 11 23:31	21°♄51'36	1°17'59
minimum elong	5176 Apr 21 13:06	2°♄22'57	8°36'13	minimum elong	5178 Sep 11 16:44	21°♄30'41	1°17'52
min. Earth dist.	5176 Apr 21 01:20	2°♄41'16	0.27501 AU		5178 Sep 18 13:58	0°♄	
morning rise	5176 Apr 24 19:02	0°♄23'41			5178 Oct 12 21:20	0°♄	
	5176 Apr 25 11:05	30°♄		evening rise	5178 Oct 18 07:22	6°♄41'34	
direct	5176 May 12 00:03	24°♄40'18			5178 Nov 06 04:13	0°♄	
greatest brilliancy	5176 May 21 12:23	26°♄21'15	-4.8m	desc. node	5178 Nov 21 15:19	19°♄05'51	
	5176 May 29 13:45	0°♄			5178 Nov 30 11:15	0°♄	
desc. node	5176 Jun 05 20:11	4°♄35'38			5178 Dec 24 18:44	0°♄	
morning max el	5176 Jun 30 11:27	25°♄42'36	46°06'31		5179 Jan 18 03:41	0°♄	
	5176 Jul 04 19:58	0°♄			5179 Feb 11 17:18	0°♄	
	5176 Aug 02 03:58	0°♄			5179 Mar 08 18:58	0°♄	
	5176 Aug 28 16:10	0°♄		asc. node	5179 Mar 14 16:43	6°♄54'51	
	5176 Sep 23 06:41	0°♄			5179 Apr 04 00:50	0°♄	
asc. node	5176 Sep 26 21:48	4°♄18'58		evening max el	5179 Apr 22 15:08	19°♄36'36	46°32'09
	5176 Oct 18 06:31	0°♄			5179 May 03 12:33	0°♄	
	5176 Nov 11 19:37	0°♄		greatest brilliancy	5179 May 31 13:36	19°♄20'46	-4.8m
	5176 Dec 06 01:21	0°♄		retrograde	5179 Jun 11 13:54	21°♄34'17	
morning set	5176 Dec 25 13:02	24°♄17'47		evening set	5179 Jun 26 14:20	17°♄07'56	
	5176 Dec 30 02:31	0°♄		inferior conj	5179 Jul 02 20:28	13°♄22'02	0°21'34
desc. node	5177 Jan 16 12:52	21°♄50'32		minimum elong	5179 Jul 02 21:17	13°♄20'47	0°21'18
	5177 Jan 23 00:53	0°♄		min. Earth dist.	5179 Jul 02 12:16	13°♄34'53	0.28410 AU
max. Earth dist.	5177 Feb 02 17:14	13°♄25'09	1.71217 AU	desc. node	5179 Jul 04 07:55	12°♄26'46	
				morning rise	5179 Jul 09 04:54	9°♄34'45	
superior conj	5177 Feb 03 22:50	14°♄58'12	-0°42'40	direct	5179 Jul 24 04:12	5°♄15'36	
minimum elong	5177 Feb 03 12:49	14°♄26'43	0°42'13	greatest brilliancy	5179 Aug 03 01:05	7°♄01'52	-4.7m
	5177 Feb 15 21:40	0°♄			5179 Sep 05 13:12	0°♄	
	5177 Mar 11 18:11	0°♄		morning max el	5179 Sep 10 21:05	4°♄58'20	45°41'49
evening rise	5177 Mar 16 20:32	6°♄24'13			5179 Oct 05 07:57	0°♄	
	5177 Apr 04 16:20	0°♄		asc. node	5179 Oct 25 09:49	22°♄19'50	
	5177 Apr 28 18:23	0°♄			5179 Nov 01 02:03	0°♄	
asc. node	5177 May 09 14:38	13°♄24'41			5179 Nov 26 12:15	0°♄	
	5177 May 23 02:40	0°♄			5179 Dec 21 04:48	0°♄	
	5177 Jun 16 19:42	0°♄			5180 Jan 14 11:21	0°♄	
	5177 Jul 12 01:34	0°♄			5180 Feb 07 12:24	0°♄	
	5177 Aug 07 04:49	0°♄		desc. node	5180 Feb 14 00:44	8°♄09'23	
desc. node	5177 Aug 29 05:35	23°♄54'00			5180 Mar 02 10:38	0°♄	
	5177 Sep 04 03:45	0°♄		morning set	5180 Mar 11 14:40	11°♄30'56	
evening max el	5177 Sep 13 19:01	9°♄30'03	45°41'27		5180 Mar 26 07:52	0°♄	
	5177 Oct 08 08:08	0°♄			5180 Apr 19 05:53	0°♄	

superior conj	5180 Apr 21 07:35	2°♄35'33	-1°23'11			5182 Nov 06 07:33	0°♊	
minimum elong	5180 Apr 21 14:09	2°♄56'05	1°23'07	morning max el		5182 Nov 20 14:59	13°♊07'28	46°05'46
max. Earth dist.	5180 Apr 25 02:45	7°♄20'42	1.71708 AU	asc. node		5182 Nov 21 21:29	14°♊22'39	
	5180 May 13 06:22	0°♊				5182 Dec 06 22:50	0°♊	
evening rise	5180 May 31 00:39	22°♊03'42				5183 Jan 02 13:25	0°♊	
asc. node	5180 Jun 06 02:27	29°♊34'53				5183 Jan 27 18:25	0°♊	
	5180 Jun 06 10:34	0°♊				5183 Feb 21 08:03	0°♊	
	5180 Jun 30 19:07	0°♊		desc. node		5183 Mar 13 12:41	24°♊57'37	
	5180 Jul 25 08:38	0°♊				5183 Mar 17 14:10	0°♊	
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	5180 Sep 13 10:13	0°♊				5183 May 04 18:57	0°♊	
desc. node	5180 Sep 25 17:30	14°♊23'15		morning set		5183 May 26 10:51	26°♊55'37	
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	5180 Nov 05 06:00	0°♊				5183 Jun 22 03:46	0°♊	
evening max el	5180 Nov 25 11:37	20°♊55'48	46°33'49					
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greatest brilliancy	5181 Jan 04 14:09	20°♊57'18	-4.9m	minimum elong		5183 Jul 03 13:47	14°♊06'06	0°02'31
retrograde	5181 Jan 14 10:27	22°♊46'20		behind sun begin		5183 Jul 02 14:38	12°♊54'37	
asc. node	5181 Jan 16 19:08	22°♊39'35		behind sun end		5183 Jul 04 12:57	15°♊17'33	
evening set	5181 Jan 29 01:40	18°♊33'39		asc. node		5183 Jul 04 14:10	15°♊21'17	
min. Earth dist.	5181 Feb 03 17:58	15°♊13'49	0.26671 AU	max. Earth dist.		5183 Jul 05 11:15	16°♊26'19	1.73098 AU
inferior conj	5181 Feb 04 00:25	15°♊03'56	4°32'21			5183 Jul 16 11:18	0°♊	
minimum elong	5181 Feb 03 15:08	15°♊18'10	4°29'43	evening rise		5183 Aug 09 10:12	29°♊28'38	
morning rise	5181 Feb 09 04:34	11°♊59'38				5183 Aug 09 20:24	0°♊	
direct	5181 Feb 24 12:37	7°♊22'26				5183 Sep 03 07:06	0°♊	
greatest brilliancy	5181 Mar 06 07:42	9°♊11'16	-4.9m			5183 Sep 27 20:13	0°♊	
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morning max el	5181 Apr 15 20:55	10°♊03'30	46°51'33	desc. node		5183 Oct 24 05:27	2°♊02'34	
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desc. node	5181 May 08 10:32	3°♊58'48				5183 Dec 11 14:59	0°♊	
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	5181 Jun 26 00:28	0°♊				5184 Feb 02 15:10	0°♊	
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	5181 Aug 15 04:16	0°♊		asc. node		5184 Feb 14 06:58	11°♊43'09	
asc. node	5181 Aug 29 11:57	17°♊20'36				5184 Mar 07 04:27	0°♊	
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	5181 Oct 03 09:23	0°♊		retrograde		5184 Mar 28 23:59	8°♊08'20	
morning set	5181 Oct 13 14:08	12°♊34'06		evening set		5184 Apr 15 23:04	1°♊55'31	
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max. Earth dist.	5181 Nov 16 17:07	24°♊51'42	1.72376 AU	minimum elong		5184 Apr 19 01:53	0°♊00'21	8°43'06
				min. Earth dist.		5184 Apr 18 14:06	0°♊18'38	0.27474 AU
superior conj	5181 Nov 19 14:57	28°♊28'51	1°03'12			5184 Apr 19 02:07	30°♊	
minimum elong	5181 Nov 20 00:51	28°♊59'39	1°02'53	morning rise		5184 Apr 22 04:50	28°♊05'46	
	5181 Nov 20 20:15	0°♊		direct		5184 May 09 13:29	22°♊16'53	
	5181 Dec 14 22:01	0°♊		greatest brilliancy		5184 May 19 00:47	23°♊57'33	-4.8m
desc. node	5181 Dec 19 03:07	5°♊15'27				5184 May 31 02:10	0°♊	
evening rise	5181 Dec 28 15:24	17°♊08'04		desc. node		5184 Jun 04 22:05	3°♊18'35	
	5182 Jan 07 22:28	0°♊		morning max el		5184 Jun 28 02:30	23°♊25'51	46°08'04
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	5182 Mar 21 02:28	0°♊				5184 Aug 28 05:33	0°♊	
asc. node	5182 Apr 11 04:44	25°♊51'50				5184 Sep 22 18:56	0°♊	
	5182 Apr 14 14:28	0°♊		asc. node		5184 Sep 25 23:53	3°♊48'59	
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	5182 Jun 04 21:46	0°♊				5184 Nov 11 06:55	0°♊	
evening max el	5182 Jul 02 04:49	28°♊37'16	45°40'49			5184 Dec 05 12:30	0°♊	
	5182 Jul 03 15:06	0°♊		morning set		5184 Dec 23 02:42	21°♊55'58	
desc. node	5182 Jul 31 19:53	22°♊40'49				5184 Dec 29 13:34	0°♊	
greatest brilliancy	5182 Aug 09 12:53	26°♊52'44	-4.7m	desc. node		5185 Jan 15 14:54	21°♊22'14	
retrograde	5182 Aug 20 03:06	28°♊54'53				5185 Jan 22 11:56	0°♊	
evening set	5182 Sep 06 06:10	23°♊22'57		max. Earth dist.		5185 Jan 31 03:44	10°♊52'34	1.71236 AU
inferior conj	5182 Sep 10 16:44	20°♊39'30	-7°45'43					
minimum elong	5182 Sep 10 08:55	20°♊51'45	7°44'45	superior conj		5185 Feb 01 09:48	12°♊27'02	-0°39'11
min. Earth dist.	5182 Sep 10 14:42	20°♊42'40	0.29141 AU	minimum elong		5185 Feb 01 00:26	11°♊57'35	0°38'46
morning rise	5182 Sep 14 11:36	18°♊18'53				5185 Feb 15 08:44	0°♊	
direct	5182 Oct 02 06:40	12°♊21'01				5185 Mar 11 05:20	0°♊	
greatest brilliancy	5182 Oct 12 19:00	14°♊20'22	-4.7m	evening rise		5185 Mar 14 07:15	3°♊52'12	




























































































































	5185 Apr 04 03:34	0°♄		asc. node	5187 Oct 24 11:46	21°♏45'23	
	5185 Apr 28 05:46	0°♂			5187 Oct 31 15:36	0°♁	
asc. node	5185 May 08 16:33	12°♂55'08			5187 Nov 26 00:35	0°♎	
	5185 May 22 14:18	0°♄			5187 Dec 20 16:31	0°♌	
	5185 Jun 16 07:51	0°♂			5188 Jan 13 22:44	0°♄	
	5185 Jul 11 14:39	0°♏			5188 Feb 06 23:37	0°♏	
	5185 Aug 06 19:53	0°♁		desc. node	5188 Feb 13 02:48	7°♏40'51	
desc. node	5185 Aug 28 07:42	23°♁11'20			5188 Mar 01 21:43	0°♏	
	5185 Sep 03 23:54	0°♎		morning set	5188 Mar 09 00:45	8°♏57'09	
evening max el	5185 Sep 11 10:14	7°♎16'36 45°40'21			5188 Mar 25 18:50	0°♑	
	5185 Oct 09 11:18	0°♌					
greatest brilliancy	5185 Oct 20 19:34	5°♌23'43 -4.8m		superior conj	5188 Apr 18 19:48	0°♄09'35 -1°24'15	
retrograde	5185 Oct 30 03:34	6°♌58'10		minimum elong	5188 Apr 19 01:32	0°♄27'31 1°24'11	
evening set	5185 Nov 15 17:10	1°♌45'03			5188 Apr 18 16:44	0°♄	
	5185 Nov 18 15:31	30°♎♎		max. Earth dist.	5188 Apr 22 13:57	4°♄51'43 1.71656 AU	
inferior conj	5185 Nov 20 04:21	29°♎03'15 -6°28'50			5188 May 12 17:10	0°♂	
minimum elong	5185 Nov 20 14:36	28°♎47'24 6°26'43		evening rise	5188 May 28 14:51	19°♂45'26	
min. Earth dist.	5185 Nov 21 03:11	28°♎27'57 0.27951 AU		asc. node	5188 Jun 05 04:23	29°♂07'23	
morning rise	5185 Nov 25 11:34	25°♎52'09			5188 Jun 05 21:24	0°♄	
direct	5185 Dec 11 09:10	20°♎57'54			5188 Jun 30 06:05	0°♂	
asc. node	5185 Dec 19 09:14	22°♎11'39			5188 Jul 24 19:53	0°♏	
greatest brilliancy	5185 Dec 22 12:53	23°♎17'35 -4.8m			5188 Aug 18 16:23	0°♁	
	5186 Jan 03 15:13	0°♌			5188 Sep 12 22:53	0°♎	
morning max el	5186 Jan 30 22:36	23°♌59'15 46°49'39		desc. node	5188 Sep 24 19:31	13°♎50'22	
	5186 Feb 05 18:28	0°♄			5188 Oct 08 21:07	0°♌	
	5186 Mar 04 20:11	0°♏			5188 Nov 04 23:55	0°♄	
	5186 Mar 30 08:12	0°♏		evening max el	5188 Nov 22 23:46	18°♄30'14 46°31'46	
desc. node	5186 Apr 10 00:38	12°♏49'45			5188 Dec 05 06:58	0°♏	
	5186 Apr 24 04:54	0°♑		greatest brilliancy	5189 Jan 02 03:31	18°♏30'39 -4.9m	
	5186 May 18 19:04	0°♄		retrograde	5189 Jan 11 22:18	20°♏18'43	
	5186 Jun 12 07:01	0°♂		asc. node	5189 Jan 15 21:14	19°♏59'40	
	5186 Jul 06 18:36	0°♄		evening set	5189 Jan 26 12:02	16°♏08'33	
	5186 Jul 31 05:54	0°♂		inferior conj	5189 Feb 01 12:48	12°♏36'37 4°10'45	
asc. node	5186 Aug 01 02:07	1°♂01'59		minimum elong	5189 Feb 01 04:03	12°♏50'00 4°08'12	
morning set	5186 Aug 04 01:52	4°♂42'03		min. Earth dist.	5189 Feb 01 07:49	12°♏44'15 0.26671 AU	
	5186 Aug 24 16:08	0°♏		morning rise	5189 Feb 06 19:55	9°♏28'10	
max. Earth dist.	5186 Sep 08 10:17	18°♏09'41 1.73386 AU		direct	5189 Feb 22 00:33	4°♏54'35	
				greatest brilliancy	5189 Mar 03 22:23	6°♏45'43 -4.9m	
superior conj	5186 Sep 09 17:24	19°♏45'31 1°16'38			5189 Apr 05 13:49	0°♏	
minimum elong	5186 Sep 09 10:11	19°♏23'20 1°16'29		morning max el	5189 Apr 13 09:30	7°♏37'03 46°52'46	
	5186 Sep 18 00:47	0°♁			5189 May 04 13:11	0°♑	
	5186 Oct 12 08:14	0°♎		desc. node	5189 May 07 12:23	3°♑16'52	
evening rise	5186 Oct 16 00:05	4°♎31'10			5189 May 30 23:44	0°♄	
	5186 Nov 05 15:19	0°♌			5189 Jun 25 13:10	0°♂	
desc. node	5186 Nov 20 17:13	18°♌36'56			5189 Jul 20 17:13	0°♄	
	5186 Nov 29 22:38	0°♄			5189 Aug 14 15:31	0°♂	
	5186 Dec 24 06:30	0°♏		asc. node	5189 Aug 28 13:58	16°♂53'19	
	5187 Jan 17 15:56	0°♏			5189 Sep 08 08:29	0°♏	
	5187 Feb 11 06:16	0°♑			5189 Oct 02 20:07	0°♁	
	5187 Mar 08 09:16	0°♄		morning set	5189 Oct 11 07:07	10°♁25'19	
asc. node	5187 Mar 13 18:50	6°♄18'05			5189 Oct 27 03:08	0°♎	
	5187 Apr 03 18:08	0°♂		max. Earth dist.	5189 Nov 14 10:46	22°♎44'02 1.72423 AU	
evening max el	5187 Apr 20 06:08	17°♂19'34 46°33'59					
	5187 May 03 16:43	0°♄		superior conj	5189 Nov 17 06:16	26°♎13'55 1°05'29	
greatest brilliancy	5187 May 29 06:47	17°♄08'53 -4.8m		minimum elong	5189 Nov 17 16:03	26°♎44'18 1°05'11	
retrograde	5187 Jun 09 05:25	19°♄20'54			5189 Nov 20 06:58	0°♌	
evening set	5187 Jun 24 07:07	14°♄53'44			5189 Dec 14 08:51	0°♄	
min. Earth dist.	5187 Jun 30 04:28	11°♄21'14 0.28376 AU		desc. node	5189 Dec 18 05:08	4°♄47'53	
inferior conj	5187 Jun 30 12:07	11°♄09'16 0°42'29		evening rise	5189 Dec 26 04:14	14°♄44'17	
minimum elong	5187 Jun 30 13:42	11°♄06'47 0°41'59			5190 Jan 07 09:27	0°♏	
desc. node	5187 Jul 03 09:58	9°♄21'00			5190 Jan 31 09:18	0°♏	
morning rise	5187 Jul 06 20:54	7°♄21'08			5190 Feb 24 09:53	0°♑	
direct	5187 Jul 21 19:28	3°♄03'26			5190 Mar 20 14:11	0°♄	
greatest brilliancy	5187 Jul 31 16:11	4°♄49'19 -4.7m		asc. node	5190 Apr 10 06:39	25°♄20'38	
	5187 Sep 05 13:45	0°♂			5190 Apr 14 02:45	0°♂	
morning max el	5187 Sep 08 11:23	2°♂44'06 45°41'46			5190 May 09 06:15	0°♄	
	5187 Oct 05 00:10	0°♏			5190 Jun 04 13:23	0°♂	

evening max el	5190 Jun 29 20:10	26°Ω25'31	45°42'05			5192 Dec 04 23:16	0°♊	
	5190 Jul 03 13:48	0°♎		morning set		5192 Dec 20 16:18	19°♊35'00	
desc. node	5190 Jul 30 21:57	21°♎20'38				5192 Dec 29 00:20	0°♊	
greatest brilliancy	5190 Aug 07 03:16	24°♎42'36	-4.7m	desc. node		5193 Jan 14 17:02	20°♊55'07	
retrograde	5190 Aug 17 19:56	26°♎46'57				5193 Jan 21 22:43	0°♋	
evening set	5190 Sep 03 19:22	21°♎18'59		max. Earth dist.		5193 Jan 28 10:43	8°♋09'47	1.71256 AU
inferior conj	5190 Sep 08 09:06	18°♎30'58	-7°36'53					
minimum elong	5190 Sep 08 00:52	18°♎43'54	7°35'46	superior conj		5193 Jan 29 20:29	9°♋55'50	-0°35'36
min. Earth dist.	5190 Sep 08 05:54	18°♎35'59	0.29146 AU	minimum elong		5193 Jan 29 11:50	9°♋28'41	0°35'11
morning rise	5190 Sep 12 06:19	16°♎07'06				5193 Feb 14 19:34	0°♋	
direct	5190 Sep 29 23:04	10°♎12'27				5193 Mar 10 16:12	0°♌	
greatest brilliancy	5190 Oct 10 10:44	12°♎11'25	-4.7m	evening rise		5193 Mar 11 17:31	1°♌19'34	
	5190 Nov 06 12:26	0°♏				5193 Apr 03 14:30	0°♌	
morning max el	5190 Nov 18 07:11	10°♏56'25	46°04'17			5193 Apr 27 16:48	0°♍	
asc. node	5190 Nov 20 23:27	13°♏35'22		asc. node		5193 May 07 18:33	12°♍26'58	
	5190 Dec 06 15:56	0°♍				5193 May 22 01:36	0°♍	
	5191 Jan 02 03:26	0°♊				5193 Jun 15 19:39	0°♎	
	5191 Jan 27 07:05	0°♊				5193 Jul 11 03:26	0°♎	
	5191 Feb 20 19:59	0°♋				5193 Aug 06 10:42	0°♏	
desc. node	5191 Mar 12 14:41	24°♋28'01		desc. node		5193 Aug 27 09:43	22°♏29'25	
	5191 Mar 17 01:39	0°♋				5193 Sep 03 20:06	0°♎	
	5191 Apr 10 04:04	0°♌		evening max el		5193 Sep 09 01:04	5°♎03'48	45°39'19
	5191 May 04 05:54	0°♌				5193 Oct 11 00:32	0°♊	
morning set	5191 May 24 01:17	24°♌37'57		greatest brilliancy		5193 Oct 18 09:40	3°♊09'08	-4.8m
	5191 May 28 09:02	0°♍		retrograde		5193 Oct 27 17:14	4°♊43'07	
	5191 Jun 21 14:22	0°♍				5193 Nov 12 10:29	30°♌	
				evening set		5193 Nov 13 10:40	29°♌25'36	
superior conj	5191 Jul 01 05:30	11°♍53'52	-0°05'55	inferior conj		5193 Nov 17 19:02	26°♌47'30	-6°42'40
minimum elong	5191 Jul 01 06:49	11°♍57'55	0°05'52	minimum elong		5193 Nov 18 05:09	26°♌31'49	6°40'40
behind sun begin	5191 Jun 30 08:47	10°♍49'53		min. Earth dist.		5193 Nov 18 17:47	26°♌12'16	0.28019 AU
behind sun end	5191 Jul 02 04:51	13°♍05'55		morning rise		5193 Nov 22 23:11	23°♌40'15	
max. Earth dist.	5191 Jul 03 06:37	14°♍25'25	1.73062 AU	direct		5193 Dec 09 00:28	18°♌41'21	
asc. node	5191 Jul 03 16:18	14°♍55'17		asc. node		5193 Dec 18 11:20	20°♌22'35	
	5191 Jul 15 21:49	0°♎		greatest brilliancy		5193 Dec 20 04:01	21°♌00'16	-4.8m
evening rise	5191 Aug 07 04:31	27°♎25'05				5194 Jan 04 11:04	0°♊	
	5191 Aug 09 06:57	0°♎		morning max el		5194 Jan 28 12:30	21°♊37'26	46°48'19
	5191 Sep 02 17:48	0°♏				5194 Feb 05 14:10	0°♊	
	5191 Sep 27 07:15	0°♎				5194 Mar 04 11:24	0°♋	
	5191 Oct 22 00:30	0°♊				5194 Mar 29 21:33	0°♋	
desc. node	5191 Oct 23 07:22	1°♊33'16		desc. node		5194 Apr 09 02:34	12°♋16'49	
	5191 Nov 15 22:50	0°♊				5194 Apr 23 17:14	0°♌	
	5191 Dec 11 04:34	0°♋				5194 May 18 06:43	0°♌	
	5192 Jan 06 00:57	0°♋				5194 Jun 11 18:11	0°♍	
	5192 Feb 02 12:20	0°♌				5194 Jul 06 05:26	0°♍	
evening max el	5192 Feb 04 19:01	2°♌19'44	47°09'17			5194 Jul 30 16:31	0°♎	
asc. node	5192 Feb 13 09:03	10°♌46'05		asc. node		5194 Jul 31 04:06	0°♎35'32	
	5192 Mar 08 13:59	0°♌		morning set		5194 Aug 01 19:13	2°♎35'32	
greatest brilliancy	5192 Mar 16 11:22	3°♌47'41	-4.9m			5194 Aug 24 02:38	0°♎	
retrograde	5192 Mar 26 14:30	5°♌45'06		max. Earth dist.		5194 Sep 06 04:34	16°♎05'58	1.73397 AU
	5192 Apr 12 18:18	30°♌						
evening set	5192 Apr 13 14:34	29°♌29'33		superior conj		5194 Sep 07 11:36	17°♎41'29	1°15'11
inferior conj	5192 Apr 16 09:54	27°♌45'57	8°49'31	minimum elong		5194 Sep 07 04:00	17°♎18'05	1°15'00
minimum elong	5192 Apr 16 14:35	27°♌38'40	8°49'10			5194 Sep 17 11:17	0°♏	
min. Earth dist.	5192 Apr 16 02:33	27°♌57'20	0.27441 AU			5194 Oct 11 18:49	0°♎	
morning rise	5192 Apr 19 14:45	25°♌48'23		evening rise		5194 Oct 13 17:16	2°♎23'22	
direct	5192 May 07 03:12	19°♌54'41				5194 Nov 05 02:04	0°♊	
greatest brilliancy	5192 May 16 12:35	21°♌34'13	-4.8m	desc. node		5194 Nov 19 19:19	18°♊09'39	
	5192 Jun 01 03:20	0°♌				5194 Nov 29 09:41	0°♊	
desc. node	5192 Jun 04 00:10	2°♌05'25				5194 Dec 23 17:58	0°♋	
morning max el	5192 Jun 25 17:29	21°♌10'07	46°09'38			5195 Jan 17 03:58	0°♋	
	5192 Jul 04 13:26	0°♍				5195 Feb 10 19:08	0°♌	
	5192 Aug 01 10:36	0°♍				5195 Mar 07 23:36	0°♌	
	5192 Aug 27 18:23	0°♎		asc. node		5195 Mar 12 20:43	5°♌40'40	
	5192 Sep 22 06:39	0°♎				5195 Apr 03 11:45	0°♍	
asc. node	5192 Sep 25 01:50	3°♎20'08		evening max el		5195 Apr 17 20:15	15°♍00'17	46°35'58
	5192 Oct 17 05:18	0°♏				5195 May 03 22:48	0°♍	
	5192 Nov 10 17:47	0°♎		greatest brilliancy		5195 May 27 00:09	14°♍57'12	-4.8m

retrograde	5195 Jun 06 20:45	17°  07'48			5197 Nov 19 17:44	0° 
evening set	5195 Jun 21 23:58	12°  39'19			5197 Dec 13 19:44	0° 
inferior conj	5195 Jun 28 03:42	8°  56'45	1°03'27	desc. node	5197 Dec 17 07:14	4°  20'27
minimum elong	5195 Jun 28 06:03	8°  53'03	1°02'43	evening rise	5197 Dec 23 17:31	12°  21'52
min. Earth dist.	5195 Jun 27 20:49	9°  07'31	0.28338 AU		5198 Jan 06 20:27	0° 
desc. node	5195 Jul 02 12:03	6°  16'51			5198 Jan 30 20:28	0° 
morning rise	5195 Jul 04 12:41	5°  08'05			5198 Feb 23 21:17	0° 
direct	5195 Jul 19 10:12	0°  51'25			5198 Mar 20 01:57	0° 
greatest brilliancy	5195 Jul 29 07:37	2°  37'33	-4.7m	asc. node	5198 Apr 09 08:40	24°  8'49'32
	5195 Sep 05 12:54	0°  00			5198 Apr 13 15:08	0° 
morning max el	5195 Sep 06 01:37	0°  00'30'16	45°41'56		5198 May 08 19:48	0° 
	5195 Oct 04 15:50	0°  00			5198 Jun 04 05:29	0° 
asc. node	5195 Oct 23 13:42	21°  11'51		evening max el	5198 Jun 27 12:29	24°  00'15'16
	5195 Oct 31 04:45	0°  00			5198 Jul 03 13:56	0° 
	5195 Nov 25 12:36	0°  00		desc. node	5198 Jul 29 23:56	19°  00'56'51
	5195 Dec 20 03:57	0°  00		greatest brilliancy	5198 Aug 04 17:49	22°  00'31'43
	5196 Jan 13 09:53	0°  00		retrograde	5198 Aug 15 12:49	24°  00'37'53
	5196 Feb 06 10:38	0°  00		evening set	5198 Sep 01 08:33	19°  00'14'11
desc. node	5196 Feb 12 04:47	7°  00'12'43		inferior conj	5198 Sep 06 01:24	16°  00'21'31
	5196 Mar 01 08:39	0°  00		minimum elong	5198 Sep 05 16:47	16°  00'35'01
morning set	5196 Mar 06 10:43	6°  00'23'24		min. Earth dist.	5198 Sep 05 20:54	16°  00'28'33
	5196 Mar 25 05:42	0°  00		morning rise	5198 Sep 10 01:02	13°  00'17'54'12
				direct	5198 Sep 27 15:45	8°  00'03'13
superior conj	5196 Apr 16 07:35	27°  00'42'17	-1°25'09	greatest brilliancy	5198 Oct 08 01:41	10°  00'17'00'59
minimum elong	5196 Apr 16 12:23	27°  00'57'21	1°25'07		5198 Nov 06 15:46	0° 
	5196 Apr 18 03:34	0°  00		morning max el	5198 Nov 15 23:28	8°  00'00'45'18
max. Earth dist.	5196 Apr 19 20:41	2°  00'08'42	1.71610 AU	asc. node	5198 Nov 20 01:38	12°  00'00'48'58
	5196 May 12 03:58	0°  00			5198 Dec 06 08:51	0° 
evening rise	5196 May 26 04:24	17°  00'25'09			5199 Jan 01 17:27	0° 
asc. node	5196 Jun 04 06:29	28°  00'40'25			5199 Jan 26 19:49	0° 
	5196 Jun 05 08:13	0°  00			5199 Feb 20 08:01	0° 
	5196 Jun 29 17:01	0°  00		desc. node	5199 Mar 11 16:39	23°  00'00'57'56
	5196 Jul 24 07:05	0°  00			5199 Mar 16 13:14	0° 
	5196 Aug 18 04:06	0°  00			5199 Apr 09 15:21	0° 
	5196 Sep 12 11:32	0°  00			5199 May 03 16:58	0° 
desc. node	5196 Sep 23 21:27	13°  00'17'22		morning set	5199 May 21 15:49	22°  00'00'20'00
	5196 Oct 08 11:32	0°  00			5199 May 27 19:57	0° 
	5196 Nov 04 18:07	0°  00			5199 Jun 21 01:11	0° 
evening max el	5196 Nov 20 12:34	16°  00'07'11	46°29'52			
	5196 Dec 05 14:27	0°  00		superior conj	5199 Jun 28 21:35	9°  00'04'15'57
greatest brilliancy	5196 Dec 30 16:36	16°  00'00'45'54	-4.9m	minimum elong	5199 Jun 28 23:39	9°  00'04'48'22
retrograde	5197 Jan 09 10:55	17°  00'00'52'44		behind sun begin	5199 Jun 28 04:12	8°  00'04'48'18
asc. node	5197 Jan 14 23:11	17°  00'00'51'31		behind sun end	5199 Jun 29 19:06	10°  00'04'48'25
evening set	5197 Jan 23 22:56	13°  00'00'44'26		max. Earth dist.	5199 Jul 01 02:55	12°  00'04'26'38
inferior conj	5197 Jan 30 01:26	10°  00'00'10'37	3°48'44	asc. node	5199 Jul 02 18:17	14°  00'04'28'05
minimum elong	5197 Jan 29 17:17	10°  00'00'23'03	3°46'19		5199 Jul 15 08:36	0° 
min. Earth dist.	5197 Jan 29 21:37	10°  00'00'16'28	0.26676 AU	evening rise	5199 Aug 04 22:33	25°  00'04'19'44
morning rise	5197 Feb 04 11:27	6°  00'00'58'28			5199 Aug 08 17:47	0° 
direct	5197 Feb 19 13:08	2°  00'00'28'02			5199 Sep 02 04:49	0° 
greatest brilliancy	5197 Mar 01 12:53	4°  00'00'21'06	-4.9m		5199 Sep 26 18:36	0° 
	5197 Apr 05 15:44	0°  00			5199 Oct 21 12:22	0° 
morning max el	5197 Apr 10 23:17	5°  00'00'13'52	46°53'39	desc. node	5199 Oct 22 09:27	1°  00'00'00'30'38
	5197 May 04 06:20	0°  00			5199 Nov 15 11:30	0° 
desc. node	5197 May 06 14:30	2°  00'00'36'11			5199 Dec 10 18:30	0° 
	5197 May 30 13:56	0°  00			5200 Jan 05 17:15	0° 
	5197 Jun 25 01:54	0°  00			5200 Feb 02 10:35	0° 
	5197 Jul 20 05:05	0°  00		evening max el	5200 Feb 02 10:13	29°  00'00'13'59'04
asc. node	5197 Aug 14 02:48	0°  00		asc. node	5200 Feb 12 11:00	9°  00'00'46'53
	5197 Aug 27 15:55	16°  00'00'25'39			5200 Mar 10 17:02	0° 
	5197 Sep 07 19:25	0°  00		greatest brilliancy	5200 Mar 14 01:19	1°  00'00'23'59
	5197 Oct 02 06:51	0°  00		retrograde	5200 Mar 24 04:55	3°  00'00'21'18
morning set	5197 Oct 09 00:11	8°  00'00'16'51			5200 Apr 06 00:37	30°  00'00'00'00'00
	5197 Oct 26 13:50	0°  00		evening set	5200 Apr 11 05:52	27°  00'00'00'04'00
max. Earth dist.	5197 Nov 12 05:07	20°  00'00'17'38'30	1.72467 AU	inferior conj	5200 Apr 13 23:31	25°  00'00'22'47
				minimum elong	5200 Apr 14 03:23	25°  00'00'16'47
superior conj	5197 Nov 14 21:53	23°  00'00'17'59'48	1°07'39	min. Earth dist.	5200 Apr 13 15:17	25°  00'00'35'35
minimum elong	5197 Nov 15 07:28	24°  00'00'17'29'34	1°07'22	morning rise	5200 Apr 17 01:05	23°  00'00'30'08

direct	5200 May 04 16:59	17° Υ 32'26			5202 Nov 04 13:15	0° ♁	
greatest brilliancy	5200 May 14 00:31	19° Υ 10'34	-4.8m	desc. node	5202 Nov 18 21:21	17° ♁ 40'51	
	5200 Jun 01 22:01	0° ♁			5202 Nov 28 21:11	0° ♁	
desc. node	5200 Jun 03 02:14	0° ♁ 54'04			5202 Dec 23 05:53	0° ♁	
morning max el	5200 Jun 23 07:41	18° ♁ 51'51	46°11'02		5203 Jan 16 16:25	0° ♁	
	5200 Jul 04 09:08	0° ♁			5203 Feb 10 08:26	0° Υ	
	5200 Aug 01 01:38	0° ♁			5203 Mar 07 14:25	0° ♁	
	5200 Aug 27 07:27	0° Ω		asc. node	5203 Mar 11 22:46	5° ♁ 02'31	
	5200 Sep 21 18:43	0° ♁			5203 Apr 03 06:09	0° ♁	
asc. node	5200 Sep 24 03:50	2° ♁ 50'20		evening max el	5203 Apr 15 09:56	12° ♁ 38'53	46°37'56
	5200 Oct 16 16:49	0° ♁			5203 May 04 07:49	0° ♁	
	5200 Nov 10 05:01	0° ♁		greatest brilliancy	5203 May 24 17:14	12° ♁ 44'00	-4.8m
	5200 Dec 04 10:21	0° ♁		retrograde	5203 Jun 04 12:21	14° ♁ 53'48	
morning set	5200 Dec 18 05:57	17° ♁ 13'17		evening set	5203 Jun 19 16:56	10° ♁ 23'26	
	5200 Dec 28 11:22	0° ♁		inferior conj	5203 Jun 25 19:16	6° ♁ 43'10	1°24'22
desc. node	5201 Jan 13 18:55	20° ♁ 26'22		minimum elong	5203 Jun 25 22:24	6° ♁ 38'16	1°23'24
	5201 Jan 21 09:47	0° ♁		min. Earth dist.	5203 Jun 25 13:10	6° ♁ 52'44	0.28303 AU
max. Earth dist.	5201 Jan 25 16:00	5° ♁ 20'53	1.71279 AU	desc. node	5203 Jul 01 13:59	3° ♁ 14'05	
				morning rise	5203 Jul 02 04:18	2° ♁ 54'23	
superior conj	5201 Jan 27 07:20	7° ♁ 24'22	-0°31'58		5203 Jul 08 17:33	30° ♁	
minimum elong	5201 Jan 26 23:28	6° ♁ 59'40	0°31'35	direct	5203 Jul 17 00:38	28° ♁ 38'10	
	5201 Feb 14 06:41	0° ♁			5203 Jul 25 16:20	0° ♁	
evening rise	5201 Mar 09 03:53	28° ♁ 46'13		greatest brilliancy	5203 Jul 26 23:12	0° ♁ 25'01	-4.7m
	5201 Mar 10 03:22	0° Υ		morning max el	5203 Sep 03 16:35	28° ♁ 17'19	45°42'12
	5201 Apr 03 01:44	0° ♁			5203 Sep 05 11:24	0° Ω	
	5201 Apr 27 04:10	0° ♁			5203 Oct 04 07:34	0° ♁	
asc. node	5201 May 06 20:39	11° ♁ 58'06		asc. node	5203 Oct 22 15:52	20° ♁ 38'17	
	5201 May 21 13:13	0° ♁			5203 Oct 30 18:09	0° ♁	
	5201 Jun 15 07:48	0° Ω			5203 Nov 25 00:56	0° ♁	
	5201 Jul 10 16:39	0° ♁			5203 Dec 19 15:45	0° ♁	
	5201 Aug 06 02:08	0° ♁			5204 Jan 12 21:25	0° ♁	
desc. node	5201 Aug 26 11:39	21° ♁ 45'24			5204 Feb 05 22:00	0° ♁	
	5201 Sep 03 17:36	0° ♁		desc. node	5204 Feb 11 06:48	6° ♁ 43'31	
evening max el	5201 Sep 06 15:02	2° ♁ 47'30	45°38'10		5204 Feb 29 19:53	0° ♁	
	5201 Oct 13 12:51	0° ♁		morning set	5204 Mar 03 20:29	3° ♁ 48'03	
greatest brilliancy	5201 Oct 16 00:05	0° ♁ 53'19	-4.8m		5204 Mar 24 16:51	0° Υ	
retrograde	5201 Oct 25 06:41	2° ♁ 26'41					
	5201 Nov 05 11:06	30° ♁		superior conj	5204 Apr 13 19:11	25° Υ 13'36	-1°25'53
evening set	5201 Nov 11 04:05	27° ♁ 04'34		minimum elong	5204 Apr 13 23:03	25° Υ 25'42	1°25'52
inferior conj	5201 Nov 15 09:41	24° ♁ 30'25	-6°55'48	max. Earth dist.	5204 Apr 17 02:42	29° Υ 22'39	1.71567 AU
minimum elong	5201 Nov 15 19:37	24° ♁ 14'59	6°53'56		5204 Apr 17 14:38	0° ♁	
min. Earth dist.	5201 Nov 16 08:40	23° ♁ 54'44	0.28085 AU		5204 May 11 15:01	0° ♁	
morning rise	5201 Nov 20 10:40	21° ♁ 27'13		evening rise	5204 May 23 17:57	15° ♁ 04'01	
direct	5201 Dec 06 15:10	16° ♁ 23'17		asc. node	5204 Jun 03 08:28	28° ♁ 12'13	
asc. node	5201 Dec 17 13:17	18° ♁ 36'03			5204 Jun 04 19:19	0° ♁	
greatest brilliancy	5201 Dec 17 19:38	18° ♁ 42'17	-4.8m		5204 Jun 29 04:14	0° Ω	
	5202 Jan 05 02:25	0° ♁			5204 Jul 23 18:33	0° ♁	
morning max el	5202 Jan 26 01:57	19° ♁ 13'20	46°47'08		5204 Aug 17 16:06	0° ♁	
	5202 Feb 05 09:43	0° ♁			5204 Sep 12 00:30	0° ♁	
	5202 Mar 04 02:45	0° ♁		desc. node	5204 Sep 22 23:35	12° ♁ 44'11	
	5202 Mar 29 11:07	0° ♁			5204 Oct 08 02:22	0° ♁	
desc. node	5202 Apr 08 04:38	11° ♁ 43'33			5204 Nov 04 13:07	0° ♁	
	5202 Apr 23 05:48	0° Υ		evening max el	5204 Nov 18 02:09	13° ♁ 45'18	46°27'46
	5202 May 17 18:39	0° ♁			5204 Dec 06 01:16	0° ♁	
	5202 Jun 11 05:39	0° ♁		greatest brilliancy	5204 Dec 28 04:58	13° ♁ 36'55	-4.9m
	5202 Jul 05 16:34	0° ♁		retrograde	5205 Jan 06 23:43	15° ♁ 24'54	
asc. node	5202 Jul 30 06:03	0° Ω 07'58		asc. node	5205 Jan 14 01:11	14° ♁ 23'35	
	5202 Jul 30 03:27	0° Ω		evening set	5205 Jan 21 09:50	11° ♁ 18'13	
morning set	5202 Jul 30 12:43	0° Ω 28'27		inferior conj	5205 Jan 27 13:47	7° ♁ 42'42	3°26'01
	5202 Aug 23 13:29	0° ♁		minimum elong	5205 Jan 27 06:18	7° ♁ 54'04	3°23'46
max. Earth dist.	5202 Sep 03 23:15	14° ♁ 02'25	1.73413 AU	min. Earth dist.	5205 Jan 27 10:57	7° ♁ 47'00	0.26684 AU
				morning rise	5205 Feb 02 02:36	4° ♁ 27'04	
superior conj	5202 Sep 05 05:54	15° ♁ 36'45	1°13'37		5205 Feb 16 13:45	30° ♁	
minimum elong	5202 Sep 04 21:57	15° ♁ 12'16	1°13'25	direct	5205 Feb 17 02:00	29° ♁ 59'41	
	5202 Sep 16 22:08	0° ♁			5205 Feb 17 14:17	0° ♁	
evening rise	5202 Oct 11 10:31	0° ♁ 14'36		greatest brilliancy	5205 Feb 27 02:44	1° ♁ 54'09	-4.9m
	5202 Oct 11 05:47	0° ♁			5205 Apr 05 16:45	0° ♁	

morning max el	5205 Apr 08 13:43	2° H 51'25	46°54'36		5207 Oct 21 00:09	0° X	
	5205 May 03 23:23	0° Y			5207 Nov 15 00:04	0° Z	
desc. node	5205 May 05 16:35	1° Y 55'12			5207 Dec 10 08:22	0° \approx	
	5205 May 30 04:10	0° B			5208 Jan 05 09:37	0° H	
	5205 Jun 24 14:43	0° II		evening max el	5208 Jan 31 00:43	27° H 37'00	47°08'45
	5205 Jul 19 17:03	0° G			5208 Feb 02 09:34	0° Y	
	5205 Aug 13 14:13	0° Ω		asc. node	5208 Feb 11 13:02	8° Y 46'51	
asc. node	5205 Aug 26 17:59	15° Ω 57'55		greatest brilliancy	5208 Mar 11 15:39	29° Y 00'34	-4.9m
	5205 Sep 07 06:29	0° M			5208 Mar 14 18:44	0° B	
	5205 Oct 01 17:43	0° $\underline{\text{B}}$		retrograde	5208 Mar 21 18:36	0° B 56'58	
morning set	5205 Oct 06 17:35	6° $\underline{\text{B}}$ 09'05			5208 Mar 28 13:06	30° R Y	
	5205 Oct 26 00:39	0° M		evening set	5208 Apr 08 20:32	24° Y 38'51	
max. Earth dist.	5205 Nov 09 23:03	18° M 31'26	1.72510 AU	min. Earth dist.	5208 Apr 11 04:15	23° Y 12'53	0.27370 AU
				inferior conj	5208 Apr 11 13:00	22° Y 59'17	8°58'23
superior conj	5205 Nov 12 13:49	21° M 46'23	1°09'41	minimum elong	5208 Apr 11 15:58	22° Y 54'40	8°58'16
minimum elong	5205 Nov 12 23:07	22° M 15'17	1°09'26	morning rise	5208 Apr 14 11:34	21° Y 10'57	
	5205 Nov 19 04:36	0° X		direct	5208 May 02 06:15	15° Y 09'44	
	5205 Dec 13 06:44	0° Z		greatest brilliancy	5208 May 11 12:58	16° Y 46'59	-4.8m
desc. node	5205 Dec 16 09:10	3° Z 52'07		desc. node	5208 Jun 02 04:09	29° Y 44'21	
evening rise	5205 Dec 21 06:53	9° Z 59'15			5208 Jun 02 11:59	0° B	
	5206 Jan 06 07:37	0° \approx		morning max el	5208 Jun 20 20:57	16° B 31'07	46°12'36
	5206 Jan 30 07:50	0° H			5208 Jul 04 04:12	0° II	
	5206 Feb 23 08:55	0° Y			5208 Jul 31 16:18	0° G	
	5206 Mar 19 13:57	0° B			5208 Aug 26 20:13	0° Ω	
asc. node	5206 Apr 08 10:46	24° B 18'05			5208 Sep 21 06:30	0° M	
	5206 Apr 13 03:45	0° II		asc. node	5208 Sep 23 05:55	2° M 21'34	
	5206 May 08 09:35	0° G			5208 Oct 16 04:03	0° $\underline{\text{B}}$	
	5206 Jun 03 21:56	0° Ω			5208 Nov 09 15:59	0° M	
evening max el	5206 Jun 25 05:17	22° Ω 06'01	45°44'38		5208 Dec 03 21:11	0° X	
	5206 Jul 03 15:20	0° M		morning set	5208 Dec 15 20:03	14° X 53'47	
desc. node	5206 Jul 29 01:58	18° M 30'21			5208 Dec 27 22:09	0° Z	
greatest brilliancy	5206 Aug 02 08:54	20° M 21'27	-4.7m	desc. node	5209 Jan 12 20:59	19° Z 59'01	
retrograde	5206 Aug 13 05:29	22° M 28'41			5209 Jan 20 20:33	0° \approx	
evening set	5206 Aug 29 21:49	17° M 09'34		max. Earth dist.	5209 Jan 22 21:50	2° \approx 34'41	1.71305 AU
inferior conj	5206 Sep 03 17:44	14° M 12'08	-7°17'11				
minimum elong	5206 Sep 03 08:46	14° M 26'10	7°15'49	superior conj	5209 Jan 24 18:42	4° \approx 55'32	-0°28'18
min. Earth dist.	5206 Sep 03 12:03	14° M 21'02	0.29134 AU	minimum elong	5209 Jan 24 11:40	4° \approx 33'26	0°27'57
morning rise	5206 Sep 07 19:50	11° M 41'09			5209 Feb 13 17:30	0° H	
direct	5206 Sep 25 08:36	5° M 54'16		evening rise	5209 Mar 06 14:34	26° H 14'50	
greatest brilliancy	5206 Oct 05 16:16	7° M 50'13	-4.7m		5209 Mar 09 14:16	0° Y	
	5206 Nov 06 17:30	0° $\underline{\text{B}}$			5209 Apr 02 12:43	0° B	
morning max el	5206 Nov 13 15:20	6° $\underline{\text{B}}$ 33'31	46°01'23		5209 Apr 26 15:18	0° II	
asc. node	5206 Nov 19 03:31	12° $\underline{\text{B}}$ 02'46		asc. node	5209 May 05 22:35	11° II 29'25	
	5206 Dec 06 01:22	0° M			5209 May 21 00:39	0° G	
	5207 Jan 01 07:16	0° X			5209 Jun 14 19:48	0° Ω	
	5207 Jan 26 08:27	0° Z			5209 Jul 10 05:42	0° M	
	5207 Feb 19 20:01	0° \approx			5209 Aug 05 17:29	0° $\underline{\text{B}}$	
desc. node	5207 Mar 10 18:45	23° \approx 28'12		desc. node	5209 Aug 25 13:47	21° $\underline{\text{B}}$ 02'18	
	5207 Mar 16 00:50	0° H			5209 Sep 03 15:29	0° M	
	5207 Apr 09 02:41	0° Y		evening max el	5209 Sep 04 04:31	0° M 31'11	45°37'16
	5207 May 03 04:05	0° B		greatest brilliancy	5209 Oct 13 14:18	28° M 38'47	-4.8m
morning set	5207 May 19 05:53	20° B 00'33			5209 Oct 19 13:51	0° X	
	5207 May 27 06:52	0° II		retrograde	5209 Oct 22 20:28	0° X 12'12	
	5207 Jun 20 11:58	0° G			5209 Oct 26 01:53	30° R M	
				evening set	5209 Nov 08 21:34	24° M 45'11	
superior conj	5207 Jun 26 13:22	7° G 29'16	-0°12'41	inferior conj	5209 Nov 13 00:31	22° M 15'02	-7°08'03
minimum elong	5207 Jun 26 16:12	7° G 38'01	0°12'34	minimum elong	5209 Nov 13 10:12	22° M 00'00	7°06'21
behind sun begin	5207 Jun 26 01:28	6° G 52'31		min. Earth dist.	5209 Nov 13 23:42	21° M 39'02	0.28152 AU
behind sun end	5207 Jun 27 06:56	8° G 23'31		morning rise	5209 Nov 17 22:18	19° M 16'14	
max. Earth dist.	5207 Jun 29 00:01	10° G 30'22	1.72990 AU	direct	5209 Dec 04 05:58	14° M 06'43	
asc. node	5207 Jul 01 20:13	14° G 00'54		greatest brilliancy	5209 Dec 15 11:51	16° M 26'35	-4.8m
	5207 Jul 14 19:19	0° Ω		asc. node	5209 Dec 16 15:17	16° M 54'54	
evening rise	5207 Aug 02 16:31	23° Ω 14'21			5210 Jan 05 13:19	0° X	
	5207 Aug 08 04:33	0° M		morning max el	5210 Jan 23 16:08	16° X 52'25	46°46'05
	5207 Sep 01 15:47	0° $\underline{\text{B}}$			5210 Feb 05 04:16	0° Z	
	5207 Sep 26 05:52	0° M			5210 Mar 03 17:27	0° \approx	
desc. node	5207 Oct 21 11:31	0° X 34'15			5210 Mar 29 00:09	0° H	

desc. node	5210 Apr 07 06:41	11°  11'39"			5212 Nov 04 08:12	0° 		
	5210 Apr 22 17:54	0° 		evening max el	5212 Nov 15 16:40	11°  27'12"	46°25'46"	
	5210 May 17 06:09	0° 			5212 Dec 06 14:58	0° 		
	5210 Jun 10 16:44	0° 		greatest brilliancy	5212 Dec 25 17:19	11°  10'42"	-4.9m	
	5210 Jul 05 03:22	0° 		retrograde	5213 Jan 04 12:40	12°  58'41"		
morning set	5210 Jul 28 05:59	28°  21'34"		asc. node	5213 Jan 13 03:16	11°  27'43"		
asc. node	5210 Jul 29 08:10	29°  41'56"		evening set	5213 Jan 18 21:12	8°  53'34"		
	5210 Jul 29 14:03	0° 		inferior conj	5213 Jan 25 02:15	5°  16'22"	3°03'06"	
	5210 Aug 22 23:58	0° 		minimum elong	5213 Jan 24 19:30	5°  26'38"	3°01'02"	
max. Earth dist.	5210 Sep 01 18:52	12°  02'50"	1.73425 AU	min. Earth dist.	5213 Jan 25 00:17	5°  19'21"	0.26695 AU	
				morning rise	5213 Jan 30 17:40	1°  57'23"		
superior conj	5210 Sep 03 00:00	13°  03'21"	1°11'57"		5213 Feb 03 16:50	30°  08'30"		
minimum elong	5210 Sep 02 15:45	13°  07'08"	1°11'44"	direct	5213 Feb 14 15:27	27°  33'06"		
	5210 Sep 16 08:37	0° 		greatest brilliancy	5213 Feb 24 16:25	29°  38'18"	-4.9m	
evening rise	5210 Oct 09 03:50	28°  07'19"			5213 Feb 26 01:13	0° 		
	5210 Oct 10 16:22	0° 			5213 Apr 05 16:10	0° 		
	5210 Nov 04 00:03	0° 		morning max el	5213 Apr 06 04:14	0°  30'14"	46°55'23"	
desc. node	5210 Nov 17 23:17	17°  12'55"			5213 May 03 15:45	0° 		
	5210 Nov 28 08:18	0° 		desc. node	5213 May 04 18:27	1°  15'02"		
	5210 Dec 22 17:26	0° 			5213 May 29 17:54	0° 		
	5211 Jan 16 04:32	0° 			5213 Jun 24 03:05	0° 		
	5211 Feb 09 21:23	0° 			5213 Jul 19 04:36	0° 		
	5211 Mar 07 04:56	0° 			5213 Aug 13 01:15	0° 		
asc. node	5211 Mar 11 00:53	4°  25'40"		asc. node	5213 Aug 25 20:01	15°  03'10'06"		
	5211 Apr 03 00:27	0° 			5213 Sep 06 17:11	0° 		
evening max el	5211 Apr 13 00:02	10°  20'00"	46°39'55"		5213 Oct 01 04:17	0° 		
	5211 May 04 19:11	0° 		morning set	5213 Oct 04 10:58	4°  02'15"		
greatest brilliancy	5211 May 22 09:38	10°  31'21"	-4.8m		5213 Oct 25 11:12	0° 		
retrograde	5211 Jun 02 04:17	12°  41'10"		max. Earth dist.	5213 Nov 07 14:37	16°  17'54"	1.72552 AU	
evening set	5211 Jun 17 10:01	8° 						
inferior conj	5211 Jun 23 10:49	4°  30'44"	1°45'08"	superior conj	5213 Nov 10 05:47	19°  13'40'02"	1°11'36"	
minimum elong	5211 Jun 23 14:42	4°  24'40"	1°43'58"	minimum elong	5213 Nov 10 14:46	20°  10'15'54"	1°11'23"	
min. Earth dist.	5211 Jun 23 05:16	4°  39'25"	0.28273 AU		5213 Nov 18 15:13	0° 		
morning rise	5211 Jun 29 19:47	0° 			5213 Dec 12 17:28	0° 		
desc. node	5211 Jun 30 16:02	0° 		desc. node	5213 Dec 15 11:12	3°  32'45'55"		
	5211 Jul 01 03:55	30°  08'11"		evening rise	5213 Dec 18 20:11	7°  37'25"		
direct	5211 Jul 14 15:18	26°  12'55'55"			5214 Jan 05 18:31	0° 		
greatest brilliancy	5211 Jul 24 14:42	28°  13'34"	-4.7m		5214 Jan 29 18:56	0° 		
	5211 Jul 28 23:33	0° 			5214 Feb 22 20:19	0° 		
morning max el	5211 Sep 01 08:32	26°  07'51"	45°42'29"		5214 Mar 19 01:46	0° 		
	5211 Sep 05 08:37	0° 		asc. node	5214 Apr 07 12:40	23°  08'46'36"		
	5211 Oct 03 22:39	0° 			5214 Apr 12 16:12	0° 		
asc. node	5211 Oct 21 17:48	20°  05'23"			5214 May 07 23:16	0° 		
	5211 Oct 30 07:01	0° 			5214 Jun 03 14:26	0° 		
	5211 Nov 24 12:46	0° 		evening max el	5214 Jun 22 21:53	19°  05'56'55"	45°45'59"	
	5211 Dec 19 03:05	0° 			5214 Jul 03 17:47	0° 		
	5212 Jan 12 08:29	0° 		desc. node	5214 Jul 28 04:01	17°  02'00"		
	5212 Feb 05 08:56	0° 		greatest brilliancy	5214 Jul 31 00:40	18°  07'12'57"	-4.7m	
desc. node	5212 Feb 10 08:52	6°  15'47"		retrograde	5214 Aug 10 21:50	20°  07'20'32"		
	5212 Feb 29 06:44	0° 		evening set	5214 Aug 27 11:16	15°  06'06'06"		
morning set	5212 Mar 01 06:24	1°  14'23"		inferior conj	5214 Sep 01 10:12	12°  03'58"	-7°06'33"	
	5212 Mar 24 03:35	0° 		minimum elong	5214 Sep 01 00:57	12°  07'18'30"	7°05'02"	
				min. Earth dist.	5214 Sep 01 03:38	12°  07'14'16"	0.29124 AU	
superior conj	5212 Apr 11 06:53	22°  07'46'19"	-1°26'27"	morning rise	5214 Sep 05 14:44	9°  07'29'10"		
minimum elong	5212 Apr 11 09:46	22°  07'55'23"	1°26'27"	direct	5214 Sep 23 01:23	3°  07'46'34"		
max. Earth dist.	5212 Apr 14 10:12	26°  07'42'22"	1.71524 AU	greatest brilliancy	5214 Oct 03 07:16	5°  07'40'46"	-4.7m	
	5212 Apr 17 01:17	0° 			5214 Nov 06 17:42	0° 		
	5212 May 11 01:39	0° 		morning max el	5214 Nov 11 06:30	4°  07'20'33"	45°59'53"	
evening rise	5212 May 21 07:39	12°  12'44'40"		asc. node	5214 Nov 18 05:33	11°  07'18'06"		
asc. node	5212 Jun 02 10:26	27°  12'45'23"			5214 Dec 05 17:27	0° 		
	5212 Jun 04 05:59	0° 			5214 Dec 31 20:51	0° 		
	5212 Jun 28 15:02	0° 			5215 Jan 25 20:53	0° 		
	5212 Jul 23 05:38	0° 			5215 Feb 19 07:49	0° 		
	5212 Aug 17 03:45	0°		desc. node	5215 Mar 09 20:45	22° 07'58'42"		
	5212 Sep 11 13:11	0°			5215 Mar 15 12:15	0°		
desc. node	5212 Sep 22 01:34	12° 12'11'28"			5215 Apr 08 13:51	0°		
	5212 Oct 07 17:01	0°			5215 May 02 15:04	0°		

morning set	5215 May 16 19:49	17°♄40'50		inferior conj	5217 Nov 10 15:24	19°♍59'24	-7°19'31
	5215 May 26 17:42	0°♈		minimum elong	5217 Nov 11 00:46	19°♍44'52	7°17'58
	5215 Jun 19 22:40	0°♉		min. Earth dist.	5217 Nov 11 14:24	19°♍23'44	0.28219 AU
superior conj	5215 Jun 24 05:08	5°♊16'39	-0°16'05	morning rise	5217 Nov 15 10:00	17°♍05'18	
minimum elong	5215 Jun 24 08:43	5°♊27'44	0°15'55	direct	5217 Dec 01 21:09	11°♍49'56	
behind sun begin	5215 Jun 24 06:56	5°♊22'12		greatest brilliancy	5217 Dec 13 03:51	14°♍10'37	-4.8m
behind sun end	5215 Jun 24 10:30	5°♊33'15		asc. node	5217 Dec 15 17:23	15°♍17'14	
max. Earth dist.	5215 Jun 26 19:59	8°♊30'48	1.72946 AU		5218 Jan 05 21:32	0°♌	
asc. node	5215 Jun 30 22:21	13°♊34'30		morning max el	5218 Jan 21 07:11	14°♌33'08	46°44'47
	5215 Jul 14 05:58	0°♋			5218 Feb 04 22:40	0°♌	
evening rise	5215 Jul 31 10:27	21°♋09'07			5218 Mar 03 08:20	0°♌	
	5215 Aug 07 15:15	0°♌		desc. node	5218 Mar 28 13:27	0°♌	
	5215 Sep 01 02:39	0°♍			5218 Apr 06 08:36	10°♌38'21	
	5215 Sep 25 17:05	0°♍			5218 Apr 22 06:18	0°♍	
	5215 Oct 20 11:55	0°♎			5218 May 16 17:57	0°♎	
desc. node	5215 Oct 20 13:25	0°♎04'31			5218 Jun 10 04:07	0°♎	
	5215 Nov 14 12:43	0°♏		morning set	5218 Jul 04 14:28	0°♏	
	5215 Dec 09 22:26	0°♐		asc. node	5218 Jul 25 23:00	26°♏12'50	
	5216 Jan 05 02:23	0°♑			5218 Jul 28 10:07	29°♏14'23	
evening max el	5216 Jan 28 14:15	25°♑12'12	47°08'19		5218 Jul 29 00:59	0°♑	
	5216 Feb 02 09:42	0°♒		max. Earth dist.	5218 Aug 22 10:49	0°♒	
asc. node	5216 Feb 10 15:06	7°♒45'17			5218 Aug 30 15:32	10°♒05'21	1.73436 AU
greatest brilliancy	5216 Mar 09 06:15	26°♒37'02	-4.9m	superior conj	5218 Aug 31 17:59	11°♒26'47	1°10'11
retrograde	5216 Mar 19 07:45	28°♒32'16		minimum elong	5218 Aug 31 09:28	11°♒00'34	1°09'56
evening set	5216 Apr 06 10:37	22°♒13'59			5218 Sep 15 19:27	0°♑	
min. Earth dist.	5216 Apr 08 17:26	20°♒49'24	0.27337 AU	evening rise	5218 Oct 06 21:15	25°♑59'24	
inferior conj	5216 Apr 09 02:25	20°♒35'26	9°01'26		5218 Oct 10 03:17	0°♒	
minimum elong	5216 Apr 09 04:26	20°♒32'16	9°01'22		5218 Nov 03 11:11	0°♒	
morning rise	5216 Apr 11 22:23	18°♒50'50		desc. node	5218 Nov 17 01:22	16°♒44'36	
direct	5216 Apr 29 18:52	12°♒46'25			5218 Nov 27 19:45	0°♓	
greatest brilliancy	5216 May 09 01:58	14°♒23'33	-4.8m		5218 Dec 22 05:19	0°♓	
desc. node	5216 Jun 01 06:16	28°♒36'41			5219 Jan 15 17:02	0°♓	
	5216 Jun 02 22:32	0°♑			5219 Feb 09 10:49	0°♑	
morning max el	5216 Jun 18 09:45	14°♑08'43	46°14'12		5219 Mar 06 20:07	0°♑	
	5216 Jul 03 22:52	0°♒		asc. node	5219 Mar 10 02:45	3°♑46'23	
	5216 Jul 31 06:55	0°♓			5219 Apr 02 19:51	0°♒	
	5216 Aug 26 09:00	0°♑		evening max el	5219 Apr 10 14:58	8°♒01'35	46°41'54
	5216 Sep 20 18:19	0°♒			5219 May 05 11:35	0°♓	
asc. node	5216 Sep 22 07:51	1°♒52'13		greatest brilliancy	5219 May 20 01:20	8°♓15'52	-4.8m
	5216 Oct 15 15:21	0°♑		retrograde	5219 May 30 20:20	10°♓26'09	
	5216 Nov 09 03:00	0°♒		evening set	5219 Jun 15 03:01	5°♓50'57	
	5216 Dec 03 08:06	0°♑		inferior conj	5219 Jun 21 02:05	2°♓15'51	2°06'02
morning set	5216 Dec 13 10:06	12°♑33'47		minimum elong	5219 Jun 21 06:42	2°♓08'39	2°04'38
	5216 Dec 27 09:04	0°♓		min. Earth dist.	5219 Jun 20 20:45	2°♓24'10	0.28241 AU
desc. node	5217 Jan 11 23:05	19°♓31'12			5219 Jun 24 18:30	30°♒♈	
max. Earth dist.	5217 Jan 20 04:17	29°♓49'49	1.71336 AU	morning rise	5219 Jun 27 10:49	28°♒28'07	
	5217 Jan 20 07:31	0°♓		desc. node	5219 Jun 29 18:06	27°♒17'19	
				direct	5219 Jul 12 06:15	24°♒11'22	
superior conj	5217 Jan 22 05:50	2°♓25'21	-0°24'34	greatest brilliancy	5219 Jul 22 05:22	25°♒59'19	-4.7m
minimum elong	5217 Jan 21 23:40	2°♓05'59	0°24'15		5219 Jul 30 21:58	0°♓	
	5217 Feb 13 04:32	0°♑		morning max el	5219 Aug 30 00:52	23°♓57'54	45°42'46
evening rise	5217 Mar 04 00:55	23°♑41'47			5219 Sep 05 05:37	0°♑	
	5217 Mar 09 01:21	0°♒			5219 Oct 03 13:59	0°♒	
	5217 Apr 01 23:53	0°♑		asc. node	5219 Oct 20 19:45	19°♒31'29	
	5217 Apr 26 02:38	0°♒			5219 Oct 29 20:13	0°♑	
asc. node	5217 May 05 00:36	11°♒00'22			5219 Nov 24 00:57	0°♒	
	5217 May 20 12:19	0°♓			5219 Dec 18 14:45	0°♑	
	5217 Jun 14 08:04	0°♑			5220 Jan 11 19:54	0°♓	
	5217 Jul 09 19:07	0°♒			5220 Feb 04 20:12	0°♓	
	5217 Aug 05 09:21	0°♑		desc. node	5220 Feb 09 10:50	5°♓46'43	
desc. node	5217 Aug 24 15:47	20°♑17'36		morning set	5220 Feb 27 16:31	28°♓40'16	
evening max el	5217 Sep 01 18:11	28°♑14'50	45°36'36		5220 Feb 28 17:54	0°♑	
	5217 Sep 03 14:33	0°♒			5220 Mar 23 14:42	0°♒	
greatest brilliancy	5217 Oct 11 03:51	26°♒23'19	-4.7m				
retrograde	5217 Oct 20 10:47	27°♒57'43		superior conj	5220 Apr 08 18:16	20°♒16'38	-1°26'52
evening set	5217 Nov 06 15:02	22°♒25'38		minimum elong	5220 Apr 08 20:07	20°♒22'26	1°26'51

max. Earth dist.	5220 Apr 11 19:23	24° Υ 05'55	1.71488 AU	greatest brilliancy	5222 Sep 30 22:49	3° \mathfrak{M} 30'38	-4.7m
	5220 Apr 16 12:23	0° \mathcal{B}			5222 Nov 06 17:14	0° \mathfrak{L}	
	5220 May 10 12:45	0° Π		morning max el	5222 Nov 08 20:37	2° \mathfrak{L} 04'05	45°58'27
evening rise	5220 May 18 20:48	10° Π 22'03		asc. node	5222 Nov 17 07:41	10° \mathfrak{L} 33'26	
asc. node	5220 Jun 01 12:32	27° Π 17'27			5222 Dec 05 09:36	0° \mathfrak{M}	
	5220 Jun 03 17:07	0° \mathfrak{E}			5222 Dec 31 10:35	0° \mathcal{X}	
	5220 Jun 28 02:17	0° Ω			5223 Jan 25 09:30	0° \mathcal{Z}	
	5220 Jul 22 17:13	0° \mathfrak{M}			5223 Feb 18 19:49	0° \approx	
	5220 Aug 16 15:55	0° \mathfrak{L}		desc. node	5223 Mar 08 22:42	22° \approx 28'22	
	5220 Sep 11 02:28	0° \mathfrak{M}			5223 Mar 14 23:52	0° \mathcal{H}	
desc. node	5220 Sep 21 03:30	11° \mathfrak{M} 37'02			5223 Apr 08 01:10	0° Υ	
	5220 Oct 07 08:22	0° \mathcal{X}			5223 May 02 02:10	0° \mathcal{B}	
	5220 Nov 04 04:24	0° \mathcal{Z}		morning set	5223 May 14 09:58	15° \mathcal{B} 21'22	
evening max el	5220 Nov 13 07:37	9° \mathcal{Z} 09'02	46°23'47		5223 May 26 04:38	0° Π	
	5220 Dec 07 09:55	0° \approx			5223 Jun 19 09:30	0° \mathfrak{E}	
greatest brilliancy	5220 Dec 23 06:06	8° \approx 44'21	-4.9m				
retrograde	5221 Jan 02 01:27	10° \approx 31'42		superior conj	5223 Jun 21 21:02	3° \mathfrak{E} 04'04	-0°19'26
asc. node	5221 Jan 12 05:14	8° \approx 26'01		minimum elong	5223 Jun 22 01:21	3° \mathfrak{E} 17'24	0°19'14
evening set	5221 Jan 16 09:00	6° \approx 28'12		max. Earth dist.	5223 Jun 24 15:00	6° \mathfrak{E} 27'52	1.72905 AU
inferior conj	5221 Jan 22 14:49	2° \approx 49'35	2°39'57	asc. node	5223 Jun 30 00:19	13° \mathfrak{E} 07'10	
minimum elong	5221 Jan 22 08:52	2° \approx 58'40	2°38'05		5223 Jul 13 16:46	0° Ω	
min. Earth dist.	5221 Jan 22 13:51	2° \approx 51'04	0.26703 AU	evening rise	5223 Jul 29 04:19	19° Ω 03'06	
	5221 Jan 27 08:59	30° \mathcal{R} \mathcal{Z}			5223 Aug 07 02:08	0° \mathfrak{M}	
morning rise	5221 Jan 28 08:38	29° \mathcal{Z} 27'18			5223 Aug 31 13:44	0° \mathfrak{L}	
direct	5221 Feb 12 04:56	25° \mathcal{Z} 06'16			5223 Sep 25 04:31	0° \mathfrak{M}	
greatest brilliancy	5221 Feb 22 06:08	27° \mathcal{Z} 01'50	-4.9m	desc. node	5223 Oct 19 15:31	29° \mathfrak{M} 34'42	
	5221 Feb 28 17:00	0° \approx			5223 Oct 19 23:56	0° \mathcal{X}	
morning max el	5221 Apr 03 17:46	28° \approx 05'47	46°55'57		5223 Nov 14 01:37	0° \mathcal{Z}	
	5221 Apr 05 14:55	0° \mathcal{H}			5223 Dec 09 12:51	0° \approx	
	5221 May 03 08:10	0° Υ			5224 Jan 04 19:42	0° \mathcal{H}	
desc. node	5221 May 03 20:35	0° Υ 35'04		evening max el	5224 Jan 26 03:01	22° \mathcal{H} 44'58	47°07'50
	5221 May 29 07:54	0° \mathcal{B}			5224 Feb 02 11:16	0° Υ	
	5221 Jun 23 15:50	0° Π		asc. node	5224 Feb 09 17:03	6° Υ 41'21	
	5221 Jul 18 16:34	0° \mathfrak{E}		greatest brilliancy	5224 Mar 06 20:53	24° Υ 12'59	-4.9m
	5221 Aug 12 12:41	0° Ω		retrograde	5224 Mar 16 20:56	26° Υ 07'21	
asc. node	5221 Aug 24 21:58	15° Ω 02'47		evening set	5224 Apr 04 00:13	19° Υ 49'33	
	5221 Sep 06 04:18	0° \mathfrak{M}		inferior conj	5224 Apr 06 15:50	18° Υ 11'24	9°03'28
	5221 Sep 30 15:14	0° \mathfrak{L}		minimum elong	5224 Apr 06 16:56	18° Υ 09'42	9°03'27
morning set	5221 Oct 02 04:05	1° \mathfrak{L} 53'28		min. Earth dist.	5224 Apr 06 06:46	18° Υ 25'29	0.27300 AU
	5221 Oct 24 22:07	0° \mathfrak{M}		morning rise	5224 Apr 09 09:44	16° Υ 29'57	
max. Earth dist.	5221 Nov 05 04:42	13° \mathfrak{M} 58'42	1.72595 AU	direct	5224 Apr 27 07:14	10° Υ 22'46	
				greatest brilliancy	5224 May 06 15:17	12° Υ 00'29	-4.8m
superior conj	5221 Nov 07 21:44	17° \mathfrak{M} 20'31	1°13'25	desc. node	5224 May 31 08:17	27° Υ 30'49	
minimum elong	5221 Nov 08 06:20	17° \mathfrak{M} 47'13	1°13'12		5224 Jun 03 06:10	0° \mathcal{B}	
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desc. node	5221 Dec 14 13:17	2° \mathcal{Z} 56'41			5224 Jul 30 21:17	0° \mathfrak{E}	
evening rise	5221 Dec 16 09:32	5° \mathcal{Z} 14'38			5224 Aug 25 21:42	0° Ω	
	5222 Jan 05 05:46	0° \approx			5224 Sep 20 06:08	0° \mathfrak{M}	
	5222 Jan 29 06:23	0° \mathcal{H}		asc. node	5224 Sep 21 09:53	1° \mathfrak{M} 23'02	
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asc. node	5222 Apr 06 14:43	23° \mathcal{B} 14'49			5224 Dec 02 19:02	0° \mathcal{X}	
	5222 Apr 12 04:57	0° Π		morning set	5224 Dec 11 00:13	10° \mathcal{X} 14'01	
	5222 May 07 13:21	0° \mathfrak{E}			5224 Dec 26 19:59	0° \mathcal{Z}	
	5222 Jun 03 07:37	0° Ω		desc. node	5225 Jan 11 00:59	19° \mathcal{Z} 02'48	
evening max el	5222 Jun 20 13:41	17° Ω 44'40	45°47'13	max. Earth dist.	5225 Jan 17 14:00	27° \mathcal{Z} 15'16	1.71371 AU
	5222 Jul 03 22:30	0° \mathfrak{M}					
desc. node	5222 Jul 27 05:59	15° \mathfrak{M} 29'00		superior conj	5225 Jan 19 16:57	29° \mathcal{Z} 55'10	-0°20'47
greatest brilliancy	5222 Jul 28 16:50	16° \mathfrak{M} 03'24	-4.7m	minimum elong	5225 Jan 19 11:41	29° \mathcal{Z} 38'39	0°20'30
retrograde	5222 Aug 08 13:41	18° \mathfrak{M} 10'56			5225 Jan 19 18:30	0° \approx	
evening set	5222 Aug 25 00:40	13° \mathfrak{M} 01'06			5225 Feb 12 15:34	0° \mathcal{H}	
inferior conj	5222 Aug 30 02:35	9° \mathfrak{M} 54'30	-6°55'13	evening rise	5225 Mar 01 11:24	21° \mathcal{H} 09'09	
minimum elong	5222 Aug 29 17:07	10° \mathfrak{M} 09'24	6°53'34		5225 Mar 08 12:27	0° Υ	
min. Earth dist.	5222 Aug 29 19:32	10° \mathfrak{M} 05'36	0.29112 AU		5225 Apr 01 11:03	0° \mathcal{B}	
morning rise	5222 Sep 03 09:39	7° \mathfrak{M} 15'41			5225 Apr 25 13:56	0° Π	
direct	5222 Sep 20 17:35	1° \mathfrak{M} 37'29		asc. node	5225 May 04 02:42	10° Π 31'47	




























































































































	5225 May 19 23:55	0°☿			5227 Dec 18 02:07	0°♊
	5225 Jun 13 20:14	0°♈			5228 Jan 11 07:03	0°♊
	5225 Jul 09 08:27	0°♉			5228 Feb 04 07:13	0°♊
	5225 Aug 05 01:17	0°♊		desc. node	5228 Feb 08 12:51	5°♊18'36
desc. node	5225 Aug 23 17:43	19°♊32'31		morning set	5228 Feb 25 02:27	26°♊06'27
evening max el	5225 Aug 30 08:39	26°♊00'53	45°35'51		5228 Feb 28 04:48	0°♋
	5225 Sep 03 14:31	0°♋			5228 Mar 23 01:32	0°♋
greatest brilliancy	5225 Oct 08 16:54	24°♋07'51	-4.7m			
retrograde	5225 Oct 18 01:40	25°♋43'42		superior conj	5228 Apr 06 05:23	17°♋47'01 -1°27'05
evening set	5225 Nov 04 08:31	20°♋06'41		minimum elong	5228 Apr 06 06:09	17°♋49'27 1°27'06
inferior conj	5225 Nov 08 06:21	17°♋44'09	-7°30'14	max. Earth dist.	5228 Apr 09 06:48	21°♋37'20 1.71450 AU
minimum elong	5225 Nov 08 15:21	17°♋30'11	7°28'50		5228 Apr 15 23:10	0°♌
min. Earth dist.	5225 Nov 09 04:47	17°♋09'24	0.28288 AU		5228 May 09 23:32	0°♌
morning rise	5225 Nov 12 21:46	14°♌54'53		evening rise	5228 May 16 09:45	7°♌59'42
direct	5225 Nov 29 12:55	9°♌33'44		asc. node	5228 May 31 14:29	26°♌50'04
greatest brilliancy	5225 Dec 10 19:27	11°♌54'40	-4.8m		5228 Jun 03 03:57	0°♍
asc. node	5225 Dec 14 19:18	13°♌43'07			5228 Jun 27 13:15	0°♍
	5226 Jan 06 03:17	0°♎			5228 Jul 22 04:27	0°♎
morning max el	5226 Jan 18 22:56	12°♎16'07	46°43'27		5228 Aug 16 03:45	0°♎
	5226 Feb 04 16:30	0°♏			5228 Sep 10 15:23	0°♎
	5226 Mar 02 22:54	0°♏		desc. node	5228 Sep 20 05:38	11°♎04'22
	5226 Mar 28 02:32	0°♐			5228 Oct 06 23:27	0°♎
desc. node	5226 Apr 05 10:42	10°♐06'08			5228 Nov 04 00:44	0°♏
	5226 Apr 21 18:31	0°♑		evening max el	5228 Nov 10 21:51	6°♏50'25 46°21'31
	5226 May 16 05:34	0°♒			5228 Dec 08 10:56	0°♏
	5226 Jun 09 15:19	0°♓		greatest brilliancy	5228 Dec 20 19:17	6°♏19'27 -4.9m
	5226 Jul 04 01:22	0°♓		retrograde	5228 Dec 30 13:34	8°♏05'25
morning set	5226 Jul 23 16:24	24°♓06'02		asc. node	5229 Jan 11 07:13	5°♏19'43
asc. node	5226 Jul 27 12:06	28°♓47'39		evening set	5229 Jan 13 20:56	4°♏03'14
	5226 Jul 28 11:39	0°♑		inferior conj	5229 Jan 20 03:21	0°♏23'35 2°16'17
	5226 Aug 21 21:22	0°♒		minimum elong	5229 Jan 19 22:13	0°♏31'25 2°14'41
max. Earth dist.	5226 Aug 28 14:17	8°♒15'07	1.73445 AU	min. Earth dist.	5229 Jan 20 03:44	0°♏22'59 0.26719 AU
					5229 Jan 20 18:47	30°♒♊
superior conj	5226 Aug 29 12:16	9°♒22'48	1°08'20	morning rise	5229 Jan 25 23:20	26°♒57'58
minimum elong	5226 Aug 29 03:32	8°♒55'55	1°08'04	direct	5229 Feb 09 17:54	22°♒39'59
	5226 Sep 15 06:01	0°♓		greatest brilliancy	5229 Feb 19 20:24	24°♒36'23 -4.9m
evening rise	5226 Oct 04 14:58	23°♓53'09			5229 Mar 02 08:35	0°♓
	5226 Oct 09 14:00	0°♔		morning max el	5229 Apr 01 06:17	25°♓39'10 46°56'33
	5226 Nov 02 22:08	0°♊			5229 Apr 05 12:33	0°♊
desc. node	5226 Nov 16 03:24	16°♊16'36		desc. node	5229 May 02 22:38	29°♊56'01
	5226 Nov 27 07:03	0°♋			5229 May 03 00:02	0°♋
	5226 Dec 21 17:04	0°♌			5229 May 28 21:27	0°♌
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	5227 Feb 09 00:08	0°♎			5229 Jul 18 04:06	0°♍
	5227 Mar 06 11:17	0°♏			5229 Aug 11 23:43	0°♍
asc. node	5227 Mar 09 04:49	3°♏08'01		asc. node	5229 Aug 24 00:01	14°♏35'58
	5227 Apr 02 15:34	0°♐			5229 Sep 05 15:01	0°♎
evening max el	5227 Apr 08 06:40	5°♐45'42	46°43'48	morning set	5229 Sep 29 21:36	29°♎47'08
	5227 May 06 09:15	0°♑			5229 Sep 30 01:47	0°♎
greatest brilliancy	5227 May 17 17:07	6°♑01'14	-4.8m		5229 Oct 24 08:38	0°♎
retrograde	5227 May 28 12:36	8°♑11'42		max. Earth dist.	5229 Nov 02 19:57	11°♎44'33 1.72638 AU
evening set	5227 Jun 12 20:14	3°♑34'10				
inferior conj	5227 Jun 18 17:21	0°♑01'40	2°26'50	superior conj	5229 Nov 05 14:17	15°♎10'18 1°15'05
minimum elong	5227 Jun 18 22:41	29°♑53'21	2°25'13	minimum elong	5229 Nov 05 22:27	15°♎35'39 1°14'53
min. Earth dist.	5227 Jun 18 12:03	0°♑09'56	0.28205 AU		5229 Nov 17 12:47	0°♊
	5227 Jun 18 18:25	30°♒♌			5229 Dec 11 15:17	0°♋
morning rise	5227 Jun 25 01:39	26°♒14'57		evening rise	5229 Dec 13 23:24	2°♋54'49
desc. node	5227 Jun 28 20:02	24°♒24'16		desc. node	5229 Dec 13 15:13	2°♋29'18
direct	5227 Jul 09 21:36	21°♒57'50			5230 Jan 04 16:40	0°♌
greatest brilliancy	5227 Jul 19 19:30	23°♒45'20	-4.7m		5230 Jan 28 17:31	0°♍
	5227 Aug 01 04:43	0°♓			5230 Feb 21 19:27	0°♎
morning max el	5227 Aug 27 17:05	21°♓48'56	45°43'10		5230 Mar 18 01:42	0°♏
	5227 Sep 05 01:27	0°♑		asc. node	5230 Apr 05 16:47	22°♏43'40
	5227 Oct 03 04:39	0°♒			5230 Apr 11 17:31	0°♐
asc. node	5227 Oct 19 21:54	18°♒59'31			5230 May 07 03:18	0°♑
	5227 Oct 29 08:55	0°♓			5230 Jun 03 00:52	0°♑
	5227 Nov 23 12:45	0°♔		evening max el	5230 Jun 18 04:29	15°♑30'41 45°48'38

	5230 Jul 04 04:53	0°♍		desc. node	5233 Jan 10 03:03	18°♊35'33	
desc. node	5230 Jul 26 08:01	13°♍53'44		max. Earth dist.	5233 Jan 15 02:32	24°♊50'15	1.71399 AU
greatest brilliancy	5230 Jul 26 09:02	13°♍54'42	-4.7m				
retrograde	5230 Aug 06 05:31	16°♍02'29		superior conj	5233 Jan 17 04:34	27°♊27'15	-0°16'59
evening set	5230 Aug 22 14:07	10°♍56'52		minimum elong	5233 Jan 17 00:15	27°♊13'40	0°16'46
inferior conj	5230 Aug 27 18:59	7°♍46'07	-6°43'13		5233 Jan 19 05:15	0°♊	
minimum elong	5230 Aug 27 09:20	8°♍01'18	6°41'27		5233 Feb 12 02:23	0°♋	
min. Earth dist.	5230 Aug 27 11:39	7°♍57'41	0.29097 AU	evening rise	5233 Feb 26 22:24	18°♋38'52	
morning rise	5230 Sep 01 04:37	5°♍03'23			5233 Mar 07 23:19	0°♌	
	5230 Sep 13 06:50	30°♋♌			5233 Mar 31 22:02	0°♍	
direct	5230 Sep 18 09:22	29°♌29'20			5233 Apr 25 01:08	0°♎	
	5230 Sep 23 14:57	0°♍		asc. node	5233 May 03 04:36	10°♎02'53	
greatest brilliancy	5230 Sep 28 14:53	1°♍22'13	-4.7m		5233 May 19 11:28	0°♏	
morning max el	5230 Nov 06 10:46	29°♍49'02	45°57'19		5233 Jun 13 08:27	0°♐	
	5230 Nov 06 15:17	0°♎			5233 Jul 08 21:54	0°♑	
asc. node	5230 Nov 16 09:33	9°♎49'55			5233 Aug 04 17:32	0°♒	
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	5231 Jan 24 21:40	0°♑			5233 Sep 03 15:44	0°♓	
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desc. node	5231 Mar 08 00:48	21°♒59'31		retrograde	5233 Oct 15 16:39	23°♓29'32	
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morning set	5231 May 11 23:22	13°♍00'03		min. Earth dist.	5233 Nov 06 18:43	14°♓55'32	0.28352 AU
	5231 May 25 15:22	0°♎		morning rise	5233 Nov 10 09:23	12°♓44'23	
	5231 Jun 18 20:07	0°♏		direct	5233 Nov 27 04:54	7°♓17'43	
				greatest brilliancy	5233 Dec 08 10:13	9°♓37'51	-4.8m
superior conj	5231 Jun 19 12:24	0°♏50'23	-0°22'48	asc. node	5233 Dec 13 21:20	12°♓12'22	
minimum elong	5231 Jun 19 17:26	1°♏05'57	0°22'35		5234 Jan 06 07:05	0°♐	
max. Earth dist.	5231 Jun 22 07:50	4°♏18'49	1.72859 AU	morning max el	5234 Jan 16 14:51	9°♐59'51	46°42'12
asc. node	5231 Jun 29 02:15	12°♏40'24			5234 Feb 04 09:52	0°♑	
	5231 Jul 13 03:21	0°♐			5234 Mar 02 13:11	0°♒	
evening rise	5231 Jul 26 21:52	16°♐56'53			5234 Mar 27 15:22	0°♋	
	5231 Aug 06 12:48	0°♑		desc. node	5234 Apr 04 12:43	9°♋34'14	
	5231 Aug 31 00:35	0°♒			5234 Apr 21 06:31	0°♌	
	5231 Sep 24 15:44	0°♓			5234 May 15 17:02	0°♍	
desc. node	5231 Oct 18 17:33	29°♓05'27			5234 Jun 09 02:27	0°♎	
	5231 Oct 19 11:42	0°♐			5234 Jul 03 12:15	0°♏	
	5231 Nov 13 14:17	0°♑		morning set	5234 Jul 21 09:29	21°♏58'05	
	5231 Dec 09 03:02	0°♒		asc. node	5234 Jul 26 14:12	28°♏21'07	
	5232 Jan 04 12:56	0°♋			5234 Jul 27 22:23	0°♐	
evening max el	5232 Jan 23 15:42	20°♋18'47	47°07'15		5234 Aug 21 08:01	0°♑	
	5232 Feb 02 13:46	0°♌		max. Earth dist.	5234 Aug 26 12:18	6°♑22'26	1.73450 AU
asc. node	5232 Feb 08 19:06	5°♌37'06					
greatest brilliancy	5232 Mar 04 10:44	21°♌48'43	-4.9m	superior conj	5234 Aug 27 06:07	7°♑17'16	1°06'21
retrograde	5232 Mar 14 10:14	23°♌43'12		minimum elong	5234 Aug 26 21:14	6°♑49'55	1°06'04
evening set	5232 Apr 01 13:04	17°♌26'19			5234 Sep 14 16:40	0°♒	
inferior conj	5232 Apr 04 05:11	15°♌47'40	9°04'18	evening rise	5234 Oct 02 08:22	21°♒45'40	
minimum elong	5232 Apr 04 05:19	15°♌47'27	9°04'18		5234 Oct 09 00:46	0°♓	
min. Earth dist.	5232 Apr 03 19:46	16°♌02'16	0.27272 AU		5234 Nov 02 09:10	0°♐	
morning rise	5232 Apr 06 21:39	14°♌08'34		desc. node	5234 Nov 15 05:19	15°♐48'03	
direct	5232 Apr 24 19:49	7°♌59'11			5234 Nov 26 18:27	0°♑	
greatest brilliancy	5232 May 04 04:28	9°♌37'33	-4.8m		5234 Dec 21 04:55	0°♒	
desc. node	5232 May 30 10:13	26°♌26'37			5235 Jan 14 17:51	0°♋	
	5232 Jun 03 11:29	0°♍			5235 Feb 08 13:34	0°♌	
morning max el	5232 Jun 13 12:33	9°♍27'00	46°17'38		5235 Mar 06 02:37	0°♍	
	5232 Jul 03 10:33	0°♎		asc. node	5235 Mar 08 06:55	2°♍29'28	
	5232 Jul 30 11:24	0°♏			5235 Apr 02 11:49	0°♎	
	5232 Aug 25 10:12	0°♐		evening max el	5235 Apr 05 22:32	3°♎30'24	46°45'41
	5232 Sep 19 17:45	0°♑			5235 May 07 15:06	0°♏	
asc. node	5232 Sep 20 11:56	0°♑54'28		greatest brilliancy	5235 May 15 09:18	3°♏47'23	-4.8m
	5232 Oct 14 13:48	0°♒		retrograde	5235 May 26 04:41	5°♏57'18	
	5232 Nov 08 00:56	0°♓		evening set	5235 Jun 10 13:42	1°♏17'28	
	5232 Dec 02 05:48	0°♐			5235 Jun 12 18:51	30°♋♌	
morning set	5232 Dec 08 14:45	7°♐56'12		inferior conj	5235 Jun 16 08:42	27°♌47'35	2°47'16
	5232 Dec 26 06:43	0°♑		minimum elong	5235 Jun 16 14:43	27°♌38'12	2°45'30

min. Earth dist.	5235 Jun 16 03:25	27°II55'49	0.28173 AU		5237 Dec 11 02:21	0°Z	
morning rise	5235 Jun 22 16:20	24°II01'54		evening rise	5237 Dec 11 13:05	0°Z33'26	
desc. node	5235 Jun 27 22:06	21°II35'25		desc. node	5237 Dec 12 17:17	2°Z01'13	
direct	5235 Jul 07 13:10	19°II44'27			5238 Jan 04 03:55	0°≈	
greatest brilliancy	5235 Jul 17 09:36	21°II31'01	-4.7m		5238 Jan 28 05:00	0°H	
	5235 Aug 02 03:00	0°G			5238 Feb 21 07:15	0°Y	
morning max el	5235 Aug 25 08:39	19°G37'44	45°43'23		5238 Mar 17 13:57	0°B	
	5235 Sep 04 20:54	0°Q		asc. node	5238 Apr 04 18:41	22°B10'55	
	5235 Oct 02 19:22	0°P			5238 Apr 11 06:30	0°II	
asc. node	5235 Oct 18 23:48	18°P26'16			5238 May 06 17:43	0°G	
	5235 Oct 28 21:46	0°E			5238 Jun 02 18:49	0°Q	
	5235 Nov 23 00:43	0°M		evening max el	5238 Jun 15 19:00	13°Q15'15	45°50'14
	5235 Dec 17 13:38	0°J			5238 Jul 04 14:05	0°P	
	5236 Jan 10 18:20	0°Z		greatest brilliancy	5238 Jul 24 00:56	11°P45'10	-4.7m
	5236 Feb 03 18:22	0°≈		desc. node	5238 Jul 25 10:05	12°P14'42	
desc. node	5236 Feb 07 14:54	4°≈50'05		retrograde	5238 Aug 03 21:52	13°P53'59	
morning set	5236 Feb 22 12:25	23°≈32'14		evening set	5238 Aug 20 03:47	8°P52'04	
	5236 Feb 27 15:52	0°H		inferior conj	5238 Aug 25 11:33	5°P37'27	-6°30'43
	5236 Mar 22 12:31	0°Y		minimum elong	5238 Aug 25 01:46	5°P52'50	6°28'51
				min. Earth dist.	5238 Aug 25 03:48	5°P49'37	0.29084 AU
superior conj	5236 Apr 03 16:40	15°Y17'24	-1°27'08	morning rise	5238 Aug 29 23:46	2°P50'57	
minimum elong	5236 Apr 03 16:22	15°Y16'30	1°27'09		5238 Sep 04 09:59	30°RQ	
max. Earth dist.	5236 Apr 06 17:29	19°Y05'55	1.71407 AU	direct	5238 Sep 16 01:13	27°Q20'45	
	5236 Apr 15 10:06	0°B		greatest brilliancy	5238 Sep 26 07:19	29°Q13'49	-4.7m
	5236 May 09 10:26	0°II			5238 Sep 28 07:45	0°P	
evening rise	5236 May 13 22:49	5°II37'12		morning max el	5238 Nov 04 01:45	27°P35'04	45°56'01
asc. node	5236 May 30 16:29	26°II22'28			5238 Nov 06 12:54	0°E	
	5236 Jun 02 14:53	0°G		asc. node	5238 Nov 15 11:37	9°E06'18	
	5236 Jun 27 00:21	0°Q			5238 Dec 04 16:38	0°M	
	5236 Jul 21 15:55	0°P			5238 Dec 30 13:19	0°J	
	5236 Aug 15 15:53	0°E			5239 Jan 24 10:13	0°Z	
	5236 Sep 10 04:43	0°M			5239 Feb 17 19:26	0°≈	
desc. node	5236 Sep 19 07:37	10°M30'03		desc. node	5239 Mar 07 02:49	21°≈29'12	
	5236 Oct 06 15:07	0°J			5239 Mar 13 22:50	0°H	
	5236 Nov 03 22:11	0°Z			5239 Apr 06 23:40	0°Y	
evening max el	5236 Nov 08 11:07	4°Z28'34	46°19'22		5239 May 01 00:17	0°B	
	5236 Dec 09 22:40	0°≈		morning set	5239 May 09 12:38	10°B37'06	
greatest brilliancy	5236 Dec 18 09:02	3°≈54'26	-4.9m		5239 May 25 02:25	0°II	
retrograde	5236 Dec 28 01:19	5°≈38'39					
asc. node	5237 Jan 10 09:18	2°≈07'59		superior conj	5239 Jun 17 03:51	28°II35'51	-0°26'08
evening set	5237 Jan 11 09:08	1°≈37'12		minimum elong	5239 Jun 17 09:36	28°II53'37	0°25'53
	5237 Jan 14 06:29	30°RZ			5239 Jun 18 07:04	0°G	
inferior conj	5237 Jan 17 15:56	27°Z57'06	1°52'33	max. Earth dist.	5239 Jun 19 23:32	2°G05'08	1.72812 AU
minimum elong	5237 Jan 17 11:40	28°Z03'38	1°51'12	asc. node	5239 Jun 28 04:24	12°G13'18	
min. Earth dist.	5237 Jan 17 18:00	27°Z53'56	0.26737 AU		5239 Jul 12 14:16	0°Q	
morning rise	5237 Jan 23 13:54	24°Z28'21		evening rise	5239 Jul 24 15:40	14°Q50'29	
direct	5237 Feb 07 06:27	20°Z12'56			5239 Aug 05 23:46	0°P	
greatest brilliancy	5237 Feb 17 11:16	22°Z10'57	-4.9m		5239 Aug 30 11:45	0°E	
	5237 Mar 03 12:38	0°≈			5239 Sep 24 03:15	0°M	
morning max el	5237 Mar 29 18:20	23°≈10'27	46°57'12	desc. node	5239 Oct 17 19:29	28°M34'52	
	5237 Apr 05 09:43	0°H			5239 Oct 18 23:51	0°J	
desc. node	5237 May 02 00:31	29°H16'06			5239 Nov 13 03:26	0°Z	
	5237 May 02 15:55	0°Y			5239 Dec 08 17:52	0°≈	
	5237 May 28 11:07	0°B			5240 Jan 04 07:08	0°H	
	5237 Jun 22 16:36	0°II		evening max el	5240 Jan 21 05:08	17°H53'03	47°06'42
	5237 Jul 17 15:49	0°G			5240 Feb 02 18:39	0°Y	
	5237 Aug 11 10:57	0°Q		asc. node	5240 Feb 07 21:09	4°Y29'29	
asc. node	5237 Aug 23 02:03	14°Q08'18		greatest brilliancy	5240 Mar 01 23:55	19°Y22'02	-4.9m
	5237 Sep 05 01:59	0°P		retrograde	5240 Mar 12 00:02	21°Y17'18	
morning set	5237 Sep 27 15:01	27°P39'30		evening set	5240 Mar 30 01:13	15°Y02'01	
	5237 Sep 29 12:39	0°E		inferior conj	5240 Apr 01 18:22	13°Y22'03	9°04'15
	5237 Oct 23 19:31	0°M		minimum elong	5240 Apr 01 17:31	13°Y23'21	9°04'14
max. Earth dist.	5237 Oct 31 11:53	9°M31'22	1.72684 AU	min. Earth dist.	5240 Apr 01 08:12	13°Y37'45	0.27239 AU
				morning rise	5240 Apr 04 09:55	11°Y44'36	
superior conj	5237 Nov 03 06:42	12°M58'34	1°16'37	direct	5240 Apr 22 08:39	5°Y33'56	
minimum elong	5237 Nov 03 14:24	13°M22'28	1°16'28	greatest brilliancy	5240 May 01 16:51	7°Y12'22	-4.9m
	5237 Nov 16 23:44	0°J		desc. node	5240 May 29 12:22	25°Y23'22	

	5240 Jun 03 15:24	0°♄		5242 Dec 20 16:50	0°♁	
morning max el	5240 Jun 11 03:07	7°♄07'58 46°19'21		5243 Jan 14 06:27	0°♁	
	5240 Jul 03 04:07	0°♁		5243 Feb 08 03:17	0°♁	
	5240 Jul 30 01:40	0°♁		5243 Mar 05 18:26	0°♄	
	5240 Aug 24 22:54	0°♁	asc. node	5243 Mar 07 08:47	1°♄49'09	
	5240 Sep 19 05:35	0°♁		5243 Apr 02 09:10	0°♁	
asc. node	5240 Sep 19 13:53	0°♁24'52	evening max el	5243 Apr 03 13:54	1°♁12'36 46°47'20	
	5240 Oct 14 01:09	0°♁		5243 May 09 12:15	0°♁	
	5240 Nov 07 12:03	0°♁	greatest brilliancy	5243 May 13 02:02	1°♁32'42 -4.8m	
	5240 Dec 01 16:50	0°♁	retrograde	5243 May 23 20:08	3°♁41'10	
morning set	5240 Dec 06 05:33	5°♁38'22		5243 Jun 06 10:08	30°♁	
	5240 Dec 25 17:47	0°♁	evening set	5243 Jun 08 07:05	28°♁59'07	
desc. node	5241 Jan 09 05:09	18°♁07'24	inferior conj	5243 Jun 13 23:49	25°♁32'07 3°07'40	
max. Earth dist.	5241 Jan 12 14:09	22°♁21'16 1.71435 AU	minimum elong	5243 Jun 14 06:28	25°♁21'43 3°05'44	
			min. Earth dist.	5243 Jun 13 18:51	25°♁39'53 0.28136 AU	
superior conj	5241 Jan 14 16:03	24°♁57'46 -0°13'10	morning rise	5243 Jun 20 06:30	21°♁47'33	
minimum elong	5241 Jan 14 12:42	24°♁47'14 0°12'59	desc. node	5243 Jun 27 00:09	18°♁49'27	
behind sun begin	5241 Jan 13 21:04	23°♁58'13	direct	5243 Jul 05 04:07	17°♁29'48	
behind sun end	5241 Jan 15 04:19	25°♁36'17	greatest brilliancy	5243 Jul 14 23:39	19°♁15'30 -4.7m	
	5241 Jan 18 16:23	0°♁		5243 Aug 02 19:49	0°♁	
	5241 Feb 11 13:35	0°♁	morning max el	5243 Aug 22 23:11	17°♁23'36 45°43'50	
evening rise	5241 Feb 24 08:56	16°♁05'54		5243 Sep 04 15:53	0°♁	
	5241 Mar 07 10:35	0°♁		5243 Oct 02 09:55	0°♁	
	5241 Mar 31 09:23	0°♄	asc. node	5243 Oct 18 01:49	17°♁53'30	
	5241 Apr 24 12:41	0°♁		5243 Oct 28 10:32	0°♁	
asc. node	5241 May 02 06:39	9°♁33'25		5243 Nov 22 12:36	0°♁	
	5241 May 18 23:23	0°♁		5243 Dec 17 01:05	0°♁	
	5241 Jun 12 21:00	0°♁		5244 Jan 10 05:32	0°♁	
	5241 Jul 08 11:45	0°♁		5244 Feb 03 05:25	0°♁	
	5241 Aug 04 10:19	0°♁	desc. node	5244 Feb 06 16:53	4°♁21'39	
desc. node	5241 Aug 21 21:51	18°♁00'10	morning set	5244 Feb 19 22:43	20°♁59'15	
evening max el	5241 Aug 25 15:42	21°♁37'47 45°34'49		5244 Feb 27 02:51	0°♁	
	5241 Sep 03 18:31	0°♁		5244 Mar 21 23:28	0°♁	
greatest brilliancy	5241 Oct 03 19:09	19°♁37'54 -4.7m				
retrograde	5241 Oct 13 07:45	21°♁15'56	superior conj	5244 Apr 01 03:52	12°♁47'33 -1°27'01	
evening set	5241 Oct 30 19:27	15°♁30'22	minimum elong	5244 Apr 01 02:30	12°♁43'15 1°27'01	
inferior conj	5241 Nov 03 12:26	13°♁14'24 -7°49'19	max. Earth dist.	5244 Apr 04 00:50	16°♁24'01 1.71374 AU	
minimum elong	5241 Nov 03 20:32	13°♁01'48 7°48'15		5244 Apr 14 21:04	0°♄	
min. Earth dist.	5241 Nov 04 08:53	12°♁42'39 0.28412 AU		5244 May 08 21:24	0°♁	
morning rise	5241 Nov 07 21:21	10°♁34'29	evening rise	5244 May 11 11:19	3°♁12'42	
direct	5241 Nov 24 21:13	5°♁02'46	asc. node	5244 May 29 18:34	25°♁54'59	
greatest brilliancy	5241 Dec 06 00:44	7°♁21'11 -4.8m		5244 Jun 02 01:53	0°♁	
asc. node	5241 Dec 12 23:25	10°♁44'58		5244 Jun 26 11:30	0°♁	
	5242 Jan 06 09:23	0°♁		5244 Jul 21 03:24	0°♁	
morning max el	5242 Jan 14 06:22	7°♁42'23 46°40'35		5244 Aug 15 04:02	0°♁	
	5242 Feb 04 03:05	0°♁		5244 Sep 09 18:04	0°♁	
	5242 Mar 02 03:37	0°♁	desc. node	5244 Sep 18 09:34	9°♁55'45	
	5242 Mar 27 04:27	0°♁		5244 Oct 06 06:54	0°♁	
desc. node	5242 Apr 03 14:40	9°♁01'12		5244 Nov 03 20:13	0°♁	
	5242 Apr 20 18:48	0°♁	evening max el	5244 Nov 05 23:57	2°♁06'26 46°17'21	
	5242 May 15 04:47	0°♄		5244 Dec 12 03:59	0°♁	
	5242 Jun 08 13:48	0°♁	greatest brilliancy	5244 Dec 15 23:05	1°♁31'01 -4.8m	
	5242 Jul 02 23:20	0°♁	retrograde	5244 Dec 25 13:23	3°♁13'50	
morning set	5242 Jul 19 02:33	19°♁49'33		5245 Jan 07 08:16	30°♁	
asc. node	5242 Jul 25 16:10	27°♁53'41	evening set	5245 Jan 08 21:50	29°♁12'23	
	5242 Jul 27 09:16	0°♁	asc. node	5245 Jan 09 11:16	28°♁54'26	
	5242 Aug 20 18:48	0°♁	inferior conj	5245 Jan 15 04:49	25°♁32'23 1°28'51	
max. Earth dist.	5242 Aug 24 09:38	4°♁27'08 1.73451 AU	minimum elong	5245 Jan 15 01:26	25°♁37'35 1°27'45	
			min. Earth dist.	5245 Jan 15 08:37	25°♁26'34 0.26758 AU	
superior conj	5242 Aug 25 00:10	5°♁11'51 1°04'18	morning rise	5245 Jan 21 04:35	22°♁00'58	
minimum elong	5242 Aug 24 15:10	4°♁44'09 1°04'00	direct	5245 Feb 04 19:00	17°♁47'28	
	5242 Sep 14 03:28	0°♁	greatest brilliancy	5245 Feb 15 02:37	19°♁47'40 -4.9m	
evening rise	5242 Sep 30 02:07	19°♁38'57		5245 Mar 04 08:31	0°♁	
	5242 Oct 08 11:41	0°♁	morning max el	5245 Mar 27 07:00	20°♁44'13 46°57'42	
	5242 Nov 01 20:18	0°♁		5245 Apr 05 05:50	0°♁	
desc. node	5242 Nov 14 07:27	15°♁19'56	desc. node	5245 May 01 02:41	28°♁38'02	
	5242 Nov 26 05:55	0°♁		5245 May 02 07:18	0°♁	

	5245 May 28 00:31	0°♄			5248 Jan 04 01:18	0°♁		
	5245 Jun 22 04:54	0°♂		evening max el	5248 Jan 18 19:33	15°♁31'14	47°06'04	
	5245 Jul 17 03:24	0°♄			5248 Feb 03 01:00	0°♁		
	5245 Aug 10 22:04	0°♂		asc. node	5248 Feb 06 23:06	3°♁21'02		
asc. node	5245 Aug 22 04:00	13°♂40'52		greatest brilliancy	5248 Feb 28 12:49	16°♁56'17	-4.9m	
	5245 Sep 04 12:48	0°♄		retrograde	5248 Mar 09 14:14	18°♁52'24		
morning set	5245 Sep 25 08:15	25°♄31'59		evening set	5248 Mar 27 12:49	12°♁39'41		
	5245 Sep 28 23:19	0°♂		inferior conj	5248 Mar 30 07:29	10°♁57'31	9°03'12	
	5245 Oct 23 06:09	0°♂		minimum elong	5248 Mar 30 05:42	11°♁00'16	9°03'09	
max. Earth dist.	5245 Oct 29 06:08	7°♂26'08	1.72728 AU	min. Earth dist.	5248 Mar 29 20:25	11°♁14'36	0.27204 AU	
				morning rise	5248 Apr 01 22:41	9°♁20'48		
superior conj	5245 Oct 31 23:08	10°♂47'40	1°18'03	direct	5248 Apr 19 21:51	3°♁10'00		
minimum elong	5245 Nov 01 06:21	11°♂10'01	1°17'55	greatest brilliancy	5248 Apr 29 04:42	4°♁47'46	-4.9m	
	5245 Nov 16 10:26	0°♄		desc. node	5248 May 28 14:21	24°♁22'42		
evening rise	5245 Dec 09 03:04	28°♄13'48			5248 Jun 03 17:08	0°♄		
	5245 Dec 10 13:11	0°♄		morning max el	5248 Jun 08 17:50	4°♄50'43	46°21'02	
desc. node	5245 Dec 11 19:20	1°♄33'50			5248 Jul 02 20:47	0°♂		
	5246 Jan 03 14:55	0°♄			5248 Jul 29 15:21	0°♄		
	5246 Jan 27 16:13	0°♁			5248 Aug 24 11:09	0°♂		
	5246 Feb 20 18:45	0°♁		asc. node	5248 Sep 18 15:55	29°♂56'34		
	5246 Mar 17 01:52	0°♄			5248 Sep 18 17:03	0°♄		
asc. node	5246 Apr 03 20:46	21°♄39'39			5248 Oct 13 12:11	0°♂		
	5246 Apr 10 19:12	0°♂			5248 Nov 06 22:49	0°♂		
	5246 May 06 07:59	0°♄			5248 Dec 01 03:31	0°♄		
evening max el	5246 Jun 02 12:58	0°♂		morning set	5248 Dec 03 20:15	3°♄21'27		
	5246 Jun 13 10:01	11°♂01'36	45°51'44		5248 Dec 25 04:28	0°♄		
	5246 Jul 05 02:24	0°♄		desc. node	5249 Jan 08 07:02	17°♄39'45		
greatest brilliancy	5246 Jul 21 16:14	9°♄34'57	-4.7m	max. Earth dist.	5249 Jan 10 00:32	19°♄49'46	1.71467 AU	
desc. node	5246 Jul 24 12:03	10°♄31'57						
retrograde	5246 Aug 01 14:31	11°♄45'20		superior conj	5249 Jan 12 03:33	22°♄29'43	-0°09'20	
evening set	5246 Aug 17 17:18	6°♄46'56		minimum elong	5249 Jan 12 01:11	22°♄22'17	0°09'11	
inferior conj	5246 Aug 23 03:53	3°♄28'37	-6°17'33	behind sun begin	5249 Jan 11 03:51	21°♄15'24		
minimum elong	5246 Aug 22 18:01	3°♄44'05	6°15'34	behind sun end	5249 Jan 12 22:31	23°♄29'10		
min. Earth dist.	5246 Aug 22 19:35	3°♄41'37	0.29070 AU		5249 Jan 18 03:07	0°♄		
morning rise	5246 Aug 27 18:47	0°♄38'27			5249 Feb 11 00:23	0°♁		
	5246 Aug 28 21:31	30°♄♂		evening rise	5249 Feb 21 19:32	13°♁34'19		
direct	5246 Sep 13 17:02	25°♂12'04			5249 Mar 06 21:28	0°♁		
greatest brilliancy	5246 Sep 23 23:18	27°♂05'20	-4.7m		5249 Mar 30 20:23	0°♄		
	5246 Sep 30 13:20	0°♄			5249 Apr 23 23:52	0°♂		
morning max el	5246 Nov 01 17:28	25°♄23'50	45°54'53	asc. node	5249 May 01 08:44	9°♂05'12		
	5246 Nov 06 09:26	0°♂			5249 May 18 10:54	0°♄		
asc. node	5246 Nov 14 13:45	8°♂24'21			5249 Jun 12 09:11	0°♂		
	5246 Dec 04 07:40	0°♂			5249 Jul 08 01:17	0°♄		
	5246 Dec 30 02:22	0°♄			5249 Aug 04 03:00	0°♂		
	5247 Jan 23 22:19	0°♄		desc. node	5249 Aug 20 23:48	17°♂13'21		
	5247 Feb 17 07:01	0°♄		evening max el	5249 Aug 23 07:15	19°♂26'59	45°34'08	
desc. node	5247 Mar 06 04:45	20°♄59'56			5249 Sep 03 22:36	0°♂		
	5247 Mar 13 10:04	0°♁		greatest brilliancy	5249 Oct 01 09:06	17°♂24'39	-4.7m	
	5247 Apr 06 10:39	0°♁		retrograde	5249 Oct 10 22:07	19°♂02'46		
	5247 Apr 30 11:04	0°♄		evening set	5249 Oct 28 12:47	13°♂13'38		
morning set	5247 May 07 02:07	8°♄16'02		inferior conj	5249 Nov 01 03:34	11°♂00'35	-7°57'45	
	5247 May 24 13:03	0°♂		minimum elong	5249 Nov 01 11:08	10°♂48'48	7°56'50	
				min. Earth dist.	5249 Nov 01 23:17	10°♂29'53	0.28470 AU	
superior conj	5247 Jun 14 19:18	26°♂22'29	-0°29'26	morning rise	5249 Nov 05 09:13	8°♂25'06		
minimum elong	5247 Jun 15 01:44	26°♂42'22	0°29'08	direct	5249 Nov 22 13:09	2°♂48'27		
max. Earth dist.	5247 Jun 17 16:06	29°♂55'18	1.72773 AU	greatest brilliancy	5249 Dec 03 15:28	5°♂05'19	-4.8m	
	5247 Jun 17 17:37	0°♄		asc. node	5249 Dec 12 01:21	9°♂20'39		
asc. node	5247 Jun 27 06:20	11°♄46'45			5250 Jan 06 10:02	0°♄		
	5247 Jul 12 00:50	0°♂		morning max el	5250 Jan 11 20:53	5°♄23'10	46°39'03	
evening rise	5247 Jul 22 09:20	12°♂44'44			5250 Feb 03 19:39	0°♄		
	5247 Aug 05 10:25	0°♄			5250 Mar 01 17:32	0°♄		
	5247 Aug 29 22:37	0°♂			5250 Mar 26 17:05	0°♁		
	5247 Sep 23 14:29	0°♂		desc. node	5250 Apr 02 16:46	8°♁29'52		
desc. node	5247 Oct 16 21:35	28°♂05'43			5250 Apr 20 06:40	0°♁		
	5247 Oct 18 11:42	0°♄			5250 May 14 16:10	0°♄		
	5247 Nov 12 16:19	0°♄			5250 Jun 08 00:49	0°♂		
	5247 Dec 08 08:28	0°♄			5250 Jul 02 10:05	0°♄		

morning set	5250 Jul 16 19:44	17°  42'18		retrograde	5252 Dec 23 01:33	0°  48'30	
asc. node	5250 Jul 24 18:08	27°  27'18			5252 Dec 29 09:23	30° 	
	5250 Jul 26 19:49	0° 		evening set	5253 Jan 06 10:29	26°  46'18	
	5250 Aug 20 05:16	0° 		asc. node	5253 Jan 08 13:15	25°  36'24	
				inferior conj	5253 Jan 12 17:28	23°  06'46	1°04'43
superior conj	5250 Aug 22 18:17	3°  07'43	1°02'10	minimum elong	5253 Jan 12 14:58	23°  10'34	1°03'56
minimum elong	5250 Aug 22 09:13	2°  39'50	1°01'50	min. Earth dist.	5253 Jan 12 22:54	22°  58'27	0.26788 AU
max. Earth dist.	5250 Aug 22 06:07	2°  30'19	1.73451 AU	morning rise	5253 Jan 18 18:55	19°  33'06	
	5250 Sep 13 13:57	0° 		direct	5253 Feb 02 07:35	15°  32'048	
evening rise	5250 Sep 27 19:54	17°  33'10		greatest brilliancy	5253 Feb 12 17:49	17°  23'26	-4.9m
	5250 Oct 07 22:20	0° 			5253 Mar 04 23:41	0° 	
	5250 Nov 01 07:14	0° 		morning max el	5253 Mar 24 20:38	18°  19'48	46°58'16
desc. node	5250 Nov 13 09:27	14°  52'02			5253 Apr 05 01:33	0° 	
	5250 Nov 25 17:13	0° 		desc. node	5253 Apr 30 04:41	27°  59'32	
	5250 Dec 20 04:37	0° 			5253 May 01 22:36	0° 	
	5251 Jan 13 18:55	0° 			5253 May 27 13:52	0° 	
	5251 Feb 07 16:53	0° 			5253 Jun 21 17:09	0° 	
	5251 Mar 05 10:15	0° 			5253 Jul 16 14:58	0° 	
asc. node	5251 Mar 06 10:53	1°  09'49			5253 Aug 10 09:11	0° 	
evening max el	5251 Apr 01 04:09	28°  52'38	46°48'57	asc. node	5253 Aug 21 06:05	13°  013'41	
	5251 Apr 02 07:00	0° 			5253 Sep 03 23:39	0° 	
greatest brilliancy	5251 May 10 19:10	29°  18'55	-4.8m	morning set	5253 Sep 23 01:42	23°  024'57	
	5251 May 12 18:22	0° 			5253 Sep 28 10:02	0° 	
retrograde	5251 May 21 11:06	1°  25'33			5253 Oct 22 16:51	0° 	
	5251 May 29 20:13	30°  08'11		max. Earth dist.	5253 Oct 27 01:53	5°  025'21	1.72769 AU
evening set	5251 Jun 06 00:31	26°  14'05'56					
inferior conj	5251 Jun 11 14:54	23°  17'11	3°27'57	superior conj	5253 Oct 29 15:51	8°  037'26	1°19'21
minimum elong	5251 Jun 11 22:10	23°  10'54'49	3°25'51	minimum elong	5253 Oct 29 22:31	8°  058'06	1°19'14
min. Earth dist.	5251 Jun 11 10:35	23°  12'3'58	0.28101 AU		5253 Nov 15 21:12	0° 	
morning rise	5251 Jun 17 20:23	19°  13'3'54		evening rise	5253 Dec 06 17:19	25°  54'52	
desc. node	5251 Jun 26 02:05	16°  12'08'41			5253 Dec 10 00:06	0° 	
direct	5251 Jul 02 18:30	15°  12'15'28		desc. node	5253 Dec 10 21:16	1°  05'52	
greatest brilliancy	5251 Jul 12 14:10	17°  12'00'55	-4.8m		5254 Jan 03 02:04	0° 	
	5251 Aug 03 08:04	0° 			5254 Jan 27 03:38	0° 	
morning max el	5251 Aug 20 13:16	15°  08'08'56	45°44'26		5254 Feb 20 06:29	0° 	
	5251 Sep 04 10:05	0° 			5254 Mar 16 14:05	0° 	
	5251 Oct 02 00:03	0° 		asc. node	5254 Apr 02 22:48	21°  08'07'21	
asc. node	5251 Oct 17 03:56	17°  021'51			5254 Apr 10 08:13	0° 	
	5251 Oct 27 23:00	0° 			5254 May 05 22:39	0° 	
	5251 Nov 22 00:18	0° 			5254 Jun 02 07:48	0° 	
	5251 Dec 16 12:24	0° 		evening max el	5254 Jun 11 01:49	8°  049'26	45°53'29
	5252 Jan 09 16:39	0° 			5254 Jul 05 19:14	0° 	
	5252 Feb 02 16:25	0° 		greatest brilliancy	5254 Jul 19 07:13	7°  024'03	-4.7m
desc. node	5252 Feb 05 18:55	3°  05'53'32		desc. node	5254 Jul 23 14:04	8°  024'5'06	
greatest brilliancy	5252 Feb 07 11:48	6°  01'46	-3.9m	retrograde	5254 Jul 30 07:29	9°  023'6'13	
morning set	5252 Feb 17 08:38	18°  05'25'14		evening set	5254 Aug 15 07:00	4°  024'1'12	
	5252 Feb 26 13:46	0° 		inferior conj	5254 Aug 20 20:12	1°  019'14	-6°03'47
	5252 Mar 21 10:20	0° 		minimum elong	5254 Aug 20 10:20	1°  034'40	6°01'44
				min. Earth dist.	5254 Aug 20 11:08	1°  033'27	0.29051 AU
superior conj	5252 Mar 29 14:47	10°  09'17'09	-1°26'42		5254 Aug 22 23:01	30°  030'01	
minimum elong	5252 Mar 29 12:19	10°  09'09'23	1°26'42	morning rise	5254 Aug 25 13:48	28°  025'26	
max. Earth dist.	5252 Apr 01 05:33	13°  09'34'11	1.71338 AU	direct	5254 Sep 11 09:18	23°  020'2'55	
	5252 Apr 14 07:54	0° 		greatest brilliancy	5254 Sep 21 14:44	24°  025'54'46	-4.7m
	5252 May 08 08:14	0° 			5254 Oct 02 00:21	0° 	
evening rise	5252 May 08 23:38	0°  12'47'58		morning max el	5254 Oct 30 10:00	23°  024'14'20	45°53'49
asc. node	5252 May 28 20:31	25°  12'27'21			5254 Nov 06 05:30	0° 	
	5252 Jun 01 12:47	0° 		asc. node	5254 Nov 13 15:36	7°  024'14'40	
	5252 Jun 25 22:34	0° 			5254 Dec 03 22:40	0° 	
	5252 Jul 20 14:51	0° 			5254 Dec 29 15:29	0° 	
	5252 Aug 14 16:08	0° 			5255 Jan 23 10:34	0° 	
	5252 Sep 09 07:26	0° 			5255 Feb 16 18:47	0° 	
desc. node	5252 Sep 17 11:42	9°  022'02		desc. node	5255 Mar 05 06:52	20°  020'30'32	
	5252 Oct 05 22:51	0° 			5255 Mar 12 21:34	0° 	
evening max el	5252 Nov 03 12:26	29° 04'43'48	46°15'15		5255 Apr 05 21:56	0°	
	5252 Nov 03 19:07	0°			5255 Apr 29 22:10	0°	
greatest brilliancy	5252 Dec 13 12:24	29° 06'25	-4.8m	morning set	5255 May 04 15:06	5° 052'18	
	5252 Dec 16 13:30	0°			5255 May 24 00:01	0°	

superior conj	5255 Jun 12 10:17	24° Π 06'32	-0°32'43	morning rise	5257 Nov 02 21:23	6° \mathbb{M} 15'18	
minimum elong	5255 Jun 12 17:21	24° Π 28'27	0°32'24	direct	5257 Nov 20 04:46	0° \mathbb{M} 33'40	
max. Earth dist.	5255 Jun 15 09:40	27° Π 47'34	1.72727 AU	greatest brilliancy	5257 Dec 01 06:56	2° \mathbb{M} 49'42	-4.8m
	5255 Jun 17 04:29	0° \mathfrak{C}		asc. node	5257 Dec 11 03:24	7° \mathbb{M} 58'22	
asc. node	5255 Jun 26 08:18	11° \mathfrak{C} 19'22			5258 Jan 06 09:56	0° \mathfrak{X}	
	5255 Jul 11 11:40	0° Ω		morning max el	5258 Jan 09 10:54	3° \mathfrak{X} 01'46	46°37'35
evening rise	5255 Jul 20 02:45	10° Ω 37'21			5258 Feb 03 12:15	0° \mathfrak{Z}	
	5255 Aug 04 21:21	0° \mathbb{M}			5258 Mar 01 07:37	0° \approx	
	5255 Aug 29 09:46	0° $\underline{\mathfrak{A}}$			5258 Mar 26 05:55	0° \mathfrak{H}	
	5255 Sep 23 02:03	0° \mathbb{M}		desc. node	5258 Apr 01 18:45	7° \mathfrak{H} 57'28	
desc. node	5255 Oct 15 23:34	27° \mathbb{M} 35'14			5258 Apr 19 18:46	0° \mathcal{Y}	
	5255 Oct 17 23:55	0° \mathfrak{X}			5258 May 14 03:47	0° \mathfrak{B}	
	5255 Nov 12 05:34	0° \mathfrak{Z}			5258 Jun 07 12:08	0° Π	
	5255 Dec 07 23:31	0° \approx			5258 Jul 01 21:09	0° \mathfrak{C}	
	5256 Jan 03 20:12	0° \mathfrak{H}		morning set	5258 Jul 14 12:44	15° \mathfrak{C} 33'25	
evening max el	5256 Jan 16 10:36	13° \mathfrak{H} 10'21	47°05'14	asc. node	5258 Jul 23 20:14	27° \mathfrak{C} 00'15	
	5256 Feb 03 10:10	0° \mathcal{Y}			5258 Jul 26 06:43	0° Ω	
asc. node	5256 Feb 06 01:09	2° \mathcal{Y} 10'03			5258 Aug 19 16:04	0° \mathbb{M}	
greatest brilliancy	5256 Feb 26 01:38	14° \mathcal{Y} 29'35	-4.9m	max. Earth dist.	5258 Aug 20 00:52	0° \mathbb{M} 27'03	1.73450 AU
retrograde	5256 Mar 07 04:07	16° \mathcal{Y} 26'08					
evening set	5256 Mar 24 23:50	10° \mathcal{Y} 17'02		superior conj	5258 Aug 20 12:15	1° \mathbb{M} 02'04	0°59'55
inferior conj	5256 Mar 27 20:32	8° \mathcal{Y} 31'44	9°01'04	minimum elong	5258 Aug 20 03:11	0° \mathbb{M} 34'10	0°59'36
minimum elong	5256 Mar 27 17:50	8° \mathcal{Y} 35'54	9°00'58		5258 Sep 13 00:48	0° $\underline{\mathfrak{A}}$	
min. Earth dist.	5256 Mar 27 08:38	8° \mathcal{Y} 50'07	0.27172 AU	evening rise	5258 Sep 25 13:37	15° $\underline{\mathfrak{A}}$ 26'17	
morning rise	5256 Mar 30 11:57	6° \mathcal{Y} 54'44			5258 Oct 07 09:20	0° \mathbb{M}	
direct	5256 Apr 17 11:16	0° \mathcal{Y} 44'54			5258 Oct 31 18:30	0° \mathfrak{X}	
greatest brilliancy	5256 Apr 26 16:33	2° \mathcal{Y} 21'40	-4.9m	desc. node	5258 Nov 12 11:22	14° \mathfrak{X} 22'52	
desc. node	5256 May 27 16:18	23° \mathcal{Y} 22'00			5258 Nov 25 04:51	0° \mathfrak{Z}	
	5256 Jun 03 18:08	0° \mathfrak{B}			5258 Dec 19 16:46	0° \approx	
morning max el	5256 Jun 06 08:08	2° \mathfrak{B} 30'56	46°22'37		5259 Jan 13 07:47	0° \mathfrak{H}	
	5256 Jul 02 13:37	0° Π			5259 Feb 07 06:55	0° \mathcal{Y}	
	5256 Jul 29 05:20	0° \mathfrak{C}			5259 Mar 05 02:37	0° \mathfrak{B}	
	5256 Aug 23 23:42	0° Ω		asc. node	5259 Mar 05 12:57	0° \mathfrak{B} 29'08	
asc. node	5256 Sep 17 17:59	29° Ω 27'30		evening max el	5259 Mar 29 17:49	26° \mathfrak{B} 30'26	46°50'40
	5256 Sep 18 04:48	0° \mathbb{M}			5259 Apr 02 05:59	0° Π	
	5256 Oct 12 23:29	0° $\underline{\mathfrak{A}}$		greatest brilliancy	5259 May 08 12:14	27° Π 04'37	-4.8m
	5256 Nov 06 09:54	0° \mathbb{M}		retrograde	5259 May 19 02:08	29° Π 09'53	
	5256 Nov 30 14:31	0° \mathfrak{X}		evening set	5259 Jun 03 18:11	24° Π 22'11	
morning set	5256 Dec 01 11:11	1° \mathfrak{X} 04'19		inferior conj	5259 Jun 09 06:10	21° Π 02'05	3°47'42
	5256 Dec 24 15:29	0° \mathfrak{Z}		minimum elong	5259 Jun 09 14:00	20° Π 49'49	3°45'28
desc. node	5257 Jan 07 09:07	17° \mathfrak{Z} 11'46		min. Earth dist.	5259 Jun 09 02:36	21° Π 07'40	0.28069 AU
max. Earth dist.	5257 Jan 07 08:25	17° \mathfrak{Z} 09'32	1.71498 AU	morning rise	5259 Jun 15 10:16	17° Π 20'25	
				desc. node	5259 Jun 25 04:09	13° Π 32'45	
superior conj	5257 Jan 09 15:34	20° \mathfrak{Z} 02'22	-0°05'31	direct	5259 Jun 30 08:42	13° Π 00'41	
minimum elong	5257 Jan 09 14:10	19° \mathfrak{Z} 57'57	0°05'26	greatest brilliancy	5259 Jul 10 05:21	14° Π 46'38	-4.8m
behind sun begin	5257 Jan 08 13:57	18° \mathfrak{Z} 42'04			5259 Aug 03 07:23	0° \mathfrak{C}	
behind sun end	5257 Jan 10 14:23	21° \mathfrak{Z} 13'52		morning max el	5259 Aug 18 03:50	12° \mathfrak{C} 54'30	45°45'02
	5257 Jan 17 14:10	0° \approx			5259 Sep 04 04:09	0° Ω	
	5257 Feb 10 11:29	0° \mathfrak{H}			5259 Oct 01 14:20	0° \mathbb{M}	
evening rise	5257 Feb 19 06:31	11° \mathfrak{H} 03'02		asc. node	5259 Oct 16 05:50	16° \mathbb{M} 48'49	
	5257 Mar 06 08:37	0° \mathcal{Y}			5259 Oct 27 11:42	0° $\underline{\mathfrak{A}}$	
	5257 Mar 30 07:41	0° \mathfrak{B}			5259 Nov 21 12:13	0° \mathbb{M}	
	5257 Apr 23 11:24	0° Π			5259 Dec 15 23:55	0° \mathfrak{X}	
asc. node	5257 Apr 30 10:37	8° Π 35'18			5260 Jan 09 03:57	0° \mathfrak{Z}	
	5257 May 17 22:50	0° \mathfrak{C}			5260 Feb 02 03:37	0° \approx	
	5257 Jun 11 21:50	0° Ω		desc. node	5260 Feb 04 20:58	3° \approx 24'52	
	5257 Jul 07 15:22	0° \mathbb{M}		greatest brilliancy	5260 Feb 09 21:07	9° \approx 41'48	-3.9m
	5257 Aug 03 20:30	0° $\underline{\mathfrak{A}}$		morning set	5260 Feb 14 18:39	15° \approx 50'50	
desc. node	5257 Aug 20 01:56	16° $\underline{\mathfrak{A}}$ 25'00			5260 Feb 26 00:54	0° \mathfrak{H}	
evening max el	5257 Aug 20 22:08	17° $\underline{\mathfrak{A}}$ 13'27	45°33'41		5260 Mar 20 21:26	0° \mathcal{Y}	
	5257 Sep 04 05:12	0° \mathbb{M}					
greatest brilliancy	5257 Sep 28 23:33	15° \mathbb{M} 11'16	-4.7m	superior conj	5260 Mar 27 01:46	7° \mathcal{Y} 46'08	-1°26'13
retrograde	5257 Oct 08 12:18	16° \mathbb{M} 49'19		minimum elong	5260 Mar 26 22:14	7° \mathcal{Y} 35'00	1°26'12
evening set	5257 Oct 26 06:08	10° \mathbb{M} 56'43		max. Earth dist.	5260 Mar 29 08:28	10° \mathcal{Y} 37'54	1.71305 AU
inferior conj	5257 Oct 29 18:55	8° \mathbb{M} 46'28	-8°05'20		5260 Apr 13 18:57	0° \mathfrak{B}	
minimum elong	5257 Oct 30 01:53	8° \mathbb{M} 35'35	8°04'34	evening rise	5260 May 06 12:04	28° \mathfrak{B} 22'56	
min. Earth dist.	5257 Oct 30 14:08	8° \mathbb{M} 16'29	0.28528 AU		5260 May 07 19:15	0° Π	




































































































































asc. node	5260 May 27 22:31	24° Π 59'26		5262 Dec 03 13:25	0° \mathbb{M}	
	5260 May 31 23:50	0° \mathfrak{C}		5262 Dec 29 04:30	0° \mathfrak{X}	
	5260 Jun 25 09:48	0° Ω		5263 Jan 22 22:44	0° \mathfrak{Z}	
	5260 Jul 20 02:28	0° \mathbb{P}		5263 Feb 16 06:30	0° \approx	
	5260 Aug 14 04:30	0° $\underline{\mathfrak{L}}$		5263 Mar 04 08:51	20° \approx 00'55	
	5260 Sep 08 21:08	0° \mathbb{M}		5263 Mar 12 08:58	0° \mathfrak{H}	
desc. node	5260 Sep 16 13:38	8° \mathbb{M} 46'50		5263 Apr 05 09:07	0° \mathfrak{Y}	
	5260 Oct 05 15:18	0° \mathfrak{X}		5263 Apr 29 09:09	0° \mathfrak{B}	
evening max el	5260 Nov 01 01:46	27° \mathfrak{X} 23'01	46°13'19	5263 May 02 03:50	3° \mathfrak{B} 28'04	
	5260 Nov 03 19:17	0° \mathfrak{Z}		5263 May 23 10:53	0° Π	
greatest brilliancy	5260 Dec 11 01:16	26° \mathfrak{Z} 41'21	-4.8m			
retrograde	5260 Dec 20 14:20	28° \mathfrak{Z} 23'22		superior conj	5263 Jun 10 01:02	21° Π 50'05 -0°35'58
evening set	5261 Jan 03 23:32	24° \mathfrak{Z} 20'04		minimum elong	5263 Jun 10 08:44	22° Π 13'56 0°35'39
asc. node	5261 Jan 07 15:20	22° \mathfrak{Z} 16'09		max. Earth dist.	5263 Jun 13 04:13	25° Π 42'57 1.72681 AU
inferior conj	5261 Jan 10 06:13	20° \mathfrak{Z} 41'09	0°40'38		5263 Jun 16 15:16	0° \mathfrak{C}
minimum elong	5261 Jan 10 04:39	20° \mathfrak{Z} 43'32	0°40'09	asc. node	5263 Jun 25 10:26	10° \mathfrak{C} 52'41
min. Earth dist.	5261 Jan 10 12:57	20° \mathfrak{Z} 30'54	0.26821 AU		5263 Jul 10 22:26	0° Ω
morning rise	5261 Jan 16 09:12	17° \mathfrak{Z} 05'42		evening rise	5263 Jul 17 20:04	8° Ω 29'51
direct	5261 Jan 30 20:58	12° \mathfrak{Z} 54'15			5263 Aug 04 08:11	0° \mathbb{P}
greatest brilliancy	5261 Feb 10 08:41	14° \mathfrak{Z} 58'50	-4.9m		5263 Aug 28 20:47	0° $\underline{\mathfrak{L}}$
	5261 Mar 05 11:07	0° \approx			5263 Sep 22 13:27	0° \mathbb{M}
morning max el	5261 Mar 22 11:13	15° \approx 57'35	46°58'38	desc. node	5263 Oct 15 01:32	27° \mathbb{M} 05'04
	5261 Apr 04 20:50	0° \mathfrak{H}			5263 Oct 17 12:01	0° \mathfrak{X}
desc. node	5261 Apr 29 06:35	27° \mathfrak{H} 20'38			5263 Nov 11 18:47	0° \mathfrak{Z}
	5261 May 01 13:49	0° \mathfrak{Y}			5263 Dec 07 14:41	0° \approx
	5261 May 27 03:13	0° \mathfrak{B}			5264 Jan 03 15:34	0° \mathfrak{H}
	5261 Jun 21 05:25	0° Π		evening max el	5264 Jan 14 01:25	10° \mathfrak{H} 48'57 47°04'15
	5261 Jul 16 02:33	0° \mathfrak{C}			5264 Feb 03 22:26	0° \mathfrak{Y}
	5261 Aug 09 20:20	0° Ω		asc. node	5264 Feb 05 03:11	0° \mathfrak{Y} 57'01
asc. node	5261 Aug 20 08:04	12° Ω 46'11		greatest brilliancy	5264 Feb 23 14:58	12° \mathfrak{Y} 03'31 -4.9m
	5261 Sep 03 10:32	0° \mathbb{P}		retrograde	5264 Mar 04 17:30	13° \mathfrak{Y} 59'39
morning set	5261 Sep 20 19:18	21° \mathbb{P} 18'14		evening set	5264 Mar 22 10:17	7° \mathfrak{Y} 55'20
	5261 Sep 27 20:49	0° $\underline{\mathfrak{L}}$		inferior conj	5264 Mar 25 09:31	6° \mathfrak{Y} 06'06 8°57'55
	5261 Oct 22 03:37	0° \mathbb{M}		minimum elong	5264 Mar 25 05:53	6° \mathfrak{Y} 11'43 8°57'44
max. Earth dist.	5261 Oct 24 21:12	3° \mathbb{M} 23'06	1.72809 AU	min. Earth dist.	5264 Mar 24 21:03	6° \mathfrak{Y} 25'21 0.27135 AU
				morning rise	5264 Mar 28 01:37	4° \mathfrak{Y} 27'58
superior conj	5261 Oct 27 08:38	6° \mathbb{M} 27'12	1°20'31		5264 Apr 05 23:25	30° \mathfrak{R} \mathfrak{H}
minimum elong	5261 Oct 27 14:42	6° \mathbb{M} 46'02	1°20'26	direct	5264 Apr 15 00:19	28° \mathfrak{H} 20'06
	5261 Nov 15 08:03	0° \mathfrak{X}		greatest brilliancy	5264 Apr 24 04:45	29° \mathfrak{H} 56'07 -4.9m
evening rise	5261 Dec 04 07:34	23° \mathfrak{X} 35'46			5264 Apr 24 09:21	0° \mathfrak{Y}
	5261 Dec 09 11:06	0° \mathfrak{Z}		desc. node	5264 May 26 18:26	22° \mathfrak{Y} 23'41
desc. node	5261 Dec 09 23:21	0° \mathfrak{Z} 38'05			5264 Jun 03 17:43	0° \mathfrak{B}
	5262 Jan 02 13:15	0° \approx		morning max el	5264 Jun 03 21:22	0° \mathfrak{B} 08'58 46°24'08
	5262 Jan 26 15:06	0° \mathfrak{H}			5264 Jul 02 05:55	0° Π
	5262 Feb 19 18:17	0° \mathfrak{Y}			5264 Jul 28 18:57	0° \mathfrak{C}
	5262 Mar 16 02:22	0° \mathfrak{B}			5264 Aug 23 11:58	0° Ω
asc. node	5262 Apr 02 00:42	20° \mathfrak{B} 34'21		asc. node	5264 Sep 16 19:53	28° Ω 58'41
	5262 Apr 09 21:22	0° Π			5264 Sep 17 16:17	0° \mathbb{P}
	5262 May 05 13:33	0° \mathfrak{C}			5264 Oct 12 10:31	0° $\underline{\mathfrak{L}}$
	5262 Jun 02 03:11	0° Ω			5264 Nov 05 20:43	0° \mathbb{M}
evening max el	5262 Jun 08 18:28	6° Ω 39'15	45°55'16	morning set	5264 Nov 29 02:21	28° \mathbb{M} 48'41
	5262 Jul 06 18:00	0° \mathbb{P}			5264 Nov 30 01:16	0° \mathfrak{X}
greatest brilliancy	5262 Jul 16 22:32	5° \mathbb{P} 13'47	-4.7m		5264 Dec 24 02:16	0° \mathfrak{Z}
desc. node	5262 Jul 22 16:08	6° \mathbb{P} 54'39		max. Earth dist.	5265 Jan 04 15:13	14° \mathfrak{Z} 26'41 1.71539 AU
retrograde	5262 Jul 28 00:31	7° \mathbb{P} 27'15		desc. node	5265 Jan 06 11:12	16° \mathfrak{Z} 44'24
evening set	5262 Aug 12 20:55	2° \mathbb{P} 35'47				
	5262 Aug 17 04:42	30° \mathfrak{R} Ω		superior conj	5265 Jan 07 03:40	17° \mathfrak{Z} 36'00 -0°01'41
min. Earth dist.	5262 Aug 18 02:36	29° Ω 25'47	0.29029 AU	minimum elong	5265 Jan 07 03:13	17° \mathfrak{Z} 34'36 0°01'39
inferior conj	5262 Aug 18 12:34	29° Ω 10'11	-5°49'33	behind sun begin	5265 Jan 06 01:58	16° \mathfrak{Z} 15'29
minimum elong	5262 Aug 18 02:45	29° Ω 25'33	5°47'26	behind sun end	5265 Jan 08 04:29	18° \mathfrak{Z} 53'45
morning rise	5262 Aug 23 08:49	26° Ω 12'46			5265 Jan 17 01:02	0° \approx
direct	5262 Sep 09 01:59	20° Ω 54'22			5265 Feb 09 22:24	0° \mathfrak{H}
greatest brilliancy	5262 Sep 19 05:40	22° Ω 46'06	-4.7m	evening rise	5265 Feb 16 17:11	8° \mathfrak{H} 31'19
	5262 Oct 03 00:52	0° \mathbb{P}			5265 Mar 05 19:37	0° \mathfrak{Y}
morning max el	5262 Oct 28 02:21	21° \mathbb{P} 04'48	45°52'35		5265 Mar 29 18:49	0° \mathfrak{B}
	5262 Nov 06 00:51	0° $\underline{\mathfrak{L}}$			5265 Apr 22 22:45	0° Π
asc. node	5262 Nov 12 17:40	7° $\underline{\mathfrak{L}}$ 00'15		asc. node	5265 Apr 29 12:41	8° Π 06'32

	5265 May 17 10:35	0°☿			5267 Dec 15 11:05	0°♄
	5265 Jun 11 10:19	0°♁			5268 Jan 08 14:54	0°♁
	5265 Jul 07 05:22	0°♁			5268 Feb 01 14:26	0°♁
	5265 Aug 03 14:08	0°♁		desc. node	5268 Feb 03 22:56	2°♁57'09
evening max el	5265 Aug 18 12:15	14°♁58'49	45°33'19	greatest brilliancy	5268 Feb 09 16:08	10°♁07'34 -3.9m
desc. node	5265 Aug 19 03:54	15°♁36'11		morning set	5268 Feb 12 05:09	13°♁19'07
	5265 Sep 04 13:53	0°♁			5268 Feb 25 11:40	0°♁
greatest brilliancy	5265 Sep 26 14:05	12°♁59'01	-4.7m		5268 Mar 20 08:11	0°♁
retrograde	5265 Oct 06 02:40	14°♁37'21				
evening set	5265 Oct 23 23:17	8°♁41'29		superior conj	5268 Mar 24 12:44	5°♁16'02 -1°25'33
inferior conj	5265 Oct 27 10:21	6°♁33'49	-8°12'00	minimum elong	5268 Mar 24 08:09	5°♁01'39 1°25'31
minimum elong	5265 Oct 27 16:41	6°♁23'54	8°11'23	max. Earth dist.	5268 Mar 26 13:47	7°♁50'11 1.71283 AU
min. Earth dist.	5265 Oct 28 05:10	6°♁04'25	0.28582 AU		5268 Apr 13 05:41	0°♁
morning rise	5265 Oct 31 09:47	4°♁06'55		evening rise	5268 May 04 00:13	25°♁57'47
	5265 Nov 08 17:34	30°♁			5268 May 07 06:00	0°♁
direct	5265 Nov 17 20:05	28°♁20'16		asc. node	5268 May 27 00:36	24°♁32'26
	5265 Nov 27 07:08	0°♁			5268 May 31 10:40	0°♁
greatest brilliancy	5265 Nov 28 22:52	0°♁36'12	-4.8m		5268 Jun 24 20:50	0°♁
asc. node	5265 Dec 10 05:27	6°♁39'55			5268 Jul 19 13:54	0°♁
	5266 Jan 06 08:20	0°♁			5268 Aug 13 16:40	0°♁
morning max el	5266 Jan 07 00:47	0°♁41'16	46°36'04		5268 Sep 08 10:42	0°♁
	5266 Feb 03 04:12	0°♁		desc. node	5268 Sep 15 15:38	8°♁12'18
	5266 Feb 28 21:18	0°♁			5268 Oct 05 07:48	0°♁
	5266 Mar 25 18:28	0°♁		evening max el	5268 Oct 29 16:02	25°♁05'25 46°11'25
desc. node	5266 Mar 31 20:42	7°♁25'43			5268 Nov 03 20:21	0°♁
	5266 Apr 19 06:37	0°♁		greatest brilliancy	5268 Dec 08 13:46	24°♁17'02 -4.8m
	5266 May 13 15:10	0°♁		retrograde	5268 Dec 18 03:25	25°♁59'14
	5266 Jun 06 23:09	0°♁		evening set	5269 Jan 01 12:54	21°♁54'53
	5266 Jul 01 07:55	0°♁		asc. node	5269 Jan 06 17:17	18°♁55'39
morning set	5266 Jul 12 05:27	13°♁24'24		inferior conj	5269 Jan 07 18:59	18°♁16'35 0°16'36
asc. node	5266 Jul 22 22:10	26°♁33'37		minimum elong	5269 Jan 07 18:20	18°♁17'33 0°16'25
	5266 Jul 25 17:19	0°♁		transit middle	5269 Jan 07 18:20	18°♁17'33 0°16'25
				transit begin	5269 Jan 07 17:37	18°♁18'39
superior conj	5266 Aug 18 06:07	28°♁57'00	0°57'35	transit end	5269 Jan 07 19:03	18°♁16'28
minimum elong	5266 Aug 17 21:05	28°♁29'12	0°57'15	min. Earth dist.	5269 Jan 08 02:41	18°♁04'51 0.26852 AU
max. Earth dist.	5266 Aug 17 19:21	28°♁23'50	1.73450 AU	morning rise	5269 Jan 13 23:17	14°♁39'41
	5266 Aug 19 02:36	0°♁		direct	5269 Jan 28 10:47	10°♁29'08
	5266 Sep 12 11:22	0°♁		greatest brilliancy	5269 Feb 07 22:52	12°♁34'41 -4.9m
evening rise	5266 Sep 23 07:29	13°♁20'47			5269 Mar 05 19:02	0°♁
	5266 Oct 06 20:03	0°♁		morning max el	5269 Mar 20 01:59	13°♁37'05 46°58'56
	5266 Oct 31 05:27	0°♁			5269 Apr 04 15:09	0°♁
desc. node	5266 Nov 11 13:31	13°♁55'24		desc. node	5269 Apr 28 08:45	26°♁44'03
	5266 Nov 24 16:09	0°♁			5269 May 01 04:27	0°♁
	5266 Dec 19 04:34	0°♁			5269 May 26 16:09	0°♁
	5267 Jan 12 20:21	0°♁			5269 Jun 20 17:23	0°♁
	5267 Feb 06 20:45	0°♁			5269 Jul 15 13:53	0°♁
asc. node	5267 Mar 04 14:50	29°♁48'19			5269 Aug 09 07:16	0°♁
	5267 Mar 04 18:59	0°♁		asc. node	5269 Aug 19 10:02	12°♁19'14
evening max el	5267 Mar 27 07:20	24°♁08'23	46°52'15		5269 Sep 02 21:14	0°♁
	5267 Apr 02 05:48	0°♁		morning set	5269 Sep 18 12:42	19°♁11'40
greatest brilliancy	5267 May 06 04:35	24°♁49'19	-4.8m		5269 Sep 27 07:23	0°♁
retrograde	5267 May 16 17:12	26°♁54'02			5269 Oct 21 14:11	0°♁
evening set	5267 Jun 01 11:40	22°♁02'45		max. Earth dist.	5269 Oct 22 15:35	1°♁18'38 1.72848 AU
inferior conj	5267 Jun 06 21:09	18°♁46'37	4°07'14			
minimum elong	5267 Jun 07 05:31	18°♁33'33	4°04'56	superior conj	5269 Oct 25 01:21	4°♁17'29 1°21'34
min. Earth dist.	5267 Jun 06 18:12	18°♁51'15	0.28039 AU	minimum elong	5269 Oct 25 06:49	4°♁34'25 1°21'31
morning rise	5267 Jun 12 23:43	15°♁07'08			5269 Nov 14 18:43	0°♁
desc. node	5267 Jun 24 06:12	11°♁01'37		evening rise	5269 Dec 01 21:49	21°♁17'16
direct	5267 Jun 27 22:36	10°♁45'27			5269 Dec 08 21:56	0°♁
greatest brilliancy	5267 Jul 07 20:17	12°♁32'13	-4.8m	desc. node	5269 Dec 09 01:23	0°♁10'45
	5267 Aug 03 23:52	0°♁			5270 Jan 02 00:17	0°♁
morning max el	5267 Aug 15 18:53	10°♁41'55	45°45'44		5270 Jan 26 02:22	0°♁
	5267 Sep 03 21:29	0°♁			5270 Feb 19 05:51	0°♁
	5267 Oct 01 04:10	0°♁			5270 Mar 15 14:24	0°♁
asc. node	5267 Oct 15 07:51	16°♁17'14		asc. node	5270 Apr 01 02:49	20°♁02'48
	5267 Oct 27 00:01	0°♁			5270 Apr 09 10:17	0°♁
	5267 Nov 20 23:47	0°♁			5270 May 05 04:20	0°♁

	5270 Jun 01 22:54	0°♈			5272 Nov 05 07:37	0°♍		
evening max el	5270 Jun 06 11:18	4°♈30'05	45°56'50	morning set	5272 Nov 26 17:31	26°♍32'46		
	5270 Jul 08 01:33	0°♍			5272 Nov 29 12:07	0°♌		
greatest brilliancy	5270 Jul 14 14:25	3°♍04'29	-4.7m		5272 Dec 23 13:09	0°♎		
desc. node	5270 Jul 21 18:06	5°♍00'20		max. Earth dist.	5273 Jan 02 00:31	11°♎51'24	1.71580 AU	
retrograde	5270 Jul 25 17:11	5°♍18'20						
evening set	5270 Aug 10 10:59	0°♍30'33		superior conj	5273 Jan 04 15:47	15°♎09'31	0°02'10	
	5270 Aug 11 08:16	30°♋♈		minimum elong	5273 Jan 04 16:19	15°♎11'11	0°02'10	
inferior conj	5270 Aug 16 04:54	27°♈01'22	-5°34'47	behind sun begin	5273 Jan 03 15:11	13°♎52'29		
minimum elong	5270 Aug 15 19:13	27°♈16'34	5°32'37	behind sun end	5273 Jan 05 17:27	16°♎29'53		
min. Earth dist.	5270 Aug 15 18:18	27°♈18'00	0.29006 AU	desc. node	5273 Jan 05 13:06	16°♎16'17		
morning rise	5270 Aug 21 03:44	24°♈00'12			5273 Jan 16 11:58	0°♏		
direct	5270 Sep 06 18:46	18°♈46'10			5273 Feb 09 09:26	0°♐		
greatest brilliancy	5270 Sep 16 20:34	20°♈36'28	-4.7m	evening rise	5273 Feb 14 03:57	5°♐59'39		
	5270 Oct 03 18:44	0°♍			5273 Mar 05 06:46	0°♑		
morning max el	5270 Oct 25 17:49	18°♍53'26	45°51'23		5273 Mar 29 06:07	0°♒		
	5270 Nov 05 19:33	0°♎			5273 Apr 22 10:16	0°♓		
asc. node	5270 Nov 11 19:48	6°♎19'46		asc. node	5273 Apr 28 14:45	7°♓37'14		
	5270 Dec 03 03:53	0°♍			5273 May 16 22:28	0°♈		
	5270 Dec 28 17:19	0°♌			5273 Jun 10 22:57	0°♈		
	5271 Jan 22 10:46	0°♎			5273 Jul 06 19:34	0°♍		
	5271 Feb 15 18:04	0°♏			5273 Aug 03 08:15	0°♎		
desc. node	5271 Mar 03 10:49	19°♏31'42		evening max el	5273 Aug 16 02:02	12°♎43'18	45°32'59	
	5271 Mar 11 20:14	0°♐		desc. node	5273 Aug 18 05:54	14°♎46'25		
	5271 Apr 04 20:08	0°♑			5273 Sep 05 01:49	0°♍		
	5271 Apr 28 19:59	0°♒		greatest brilliancy	5273 Sep 24 04:09	10°♍46'07	-4.7m	
morning set	5271 Apr 29 16:52	1°♒05'11		retrograde	5273 Oct 03 17:26	12°♍25'29		
	5271 May 22 21:34	0°♓		evening set	5273 Oct 21 16:18	6°♍26'16		
				inferior conj	5273 Oct 25 01:53	4°♍20'56	-8°17'53	
superior conj	5271 Jun 07 16:06	19°♓35'01	-0°39'09	minimum elong	5273 Oct 25 07:33	4°♍12'06	8°17'24	
minimum elong	5271 Jun 08 00:22	20°♓00'38	0°38'48	min. Earth dist.	5273 Oct 25 20:10	3°♍52'25	0.28640 AU	
max. Earth dist.	5271 Jun 11 00:19	23°♓43'35	1.72634 AU	morning rise	5273 Oct 28 22:31	1°♍58'16		
	5271 Jun 16 01:54	0°♈			5273 Nov 01 10:13	30°♋♎		
asc. node	5271 Jun 24 12:22	10°♈25'55		direct	5273 Nov 15 11:36	26°♎06'27		
	5271 Jul 10 09:05	0°♈		greatest brilliancy	5273 Nov 26 15:14	28°♎22'53	-4.8m	
evening rise	5271 Jul 15 13:31	6°♈23'03			5273 Nov 30 07:14	0°♍		
	5271 Aug 03 18:56	0°♍		asc. node	5273 Dec 09 07:23	5°♍23'01		
	5271 Aug 28 07:46	0°♎		morning max el	5274 Jan 04 15:25	28°♍22'02	46°34'35	
	5271 Sep 22 00:53	0°♍			5274 Jan 06 06:11	0°♌		
desc. node	5271 Oct 14 03:39	26°♍35'18			5274 Feb 02 20:10	0°♎		
	5271 Oct 17 00:09	0°♌			5274 Feb 28 11:05	0°♏		
	5271 Nov 11 08:06	0°♎			5274 Mar 25 07:09	0°♐		
	5271 Dec 07 06:03	0°♏		desc. node	5274 Mar 30 22:50	6°♐54'03		
	5272 Jan 03 11:30	0°♐			5274 Apr 18 18:39	0°♑		
evening max el	5272 Jan 11 15:17	8°♐25'06	47°03'08		5274 May 13 02:46	0°♒		
asc. node	5272 Feb 04 05:09	29°♐41'37			5274 Jun 06 10:25	0°♓		
	5272 Feb 04 14:52	0°♑			5274 Jun 30 18:54	0°♈		
greatest brilliancy	5272 Feb 21 04:55	9°♑37'59	-4.9m	morning set	5274 Jul 09 22:21	11°♈15'12		
retrograde	5272 Mar 02 06:23	11°♑33'05		asc. node	5274 Jul 22 00:11	26°♈06'31		
evening set	5272 Mar 19 20:20	5°♑34'16			5274 Jul 25 04:07	0°♈		
inferior conj	5272 Mar 22 22:31	3°♑40'31	8°53'51	max. Earth dist.	5274 Aug 15 15:29	26°♈25'09	1.73447 AU	
minimum elong	5272 Mar 22 17:58	3°♑47'33	8°53'33					
min. Earth dist.	5272 Mar 22 09:56	3°♑59'59	0.27096 AU	superior conj	5274 Aug 16 00:16	26°♈52'10	0°55'12	
morning rise	5272 Mar 25 15:45	2°♑00'34		minimum elong	5274 Aug 15 15:18	26°♈24'35	0°54'51	
	5272 Mar 29 04:06	30°♋♐			5274 Aug 18 13:19	0°♍		
direct	5272 Apr 12 12:52	25°♐55'11			5274 Sep 11 22:08	0°♎		
greatest brilliancy	5272 Apr 21 17:37	27°♐31'08	-4.9m	evening rise	5274 Sep 21 01:45	11°♎15'59		
	5272 Apr 27 14:37	0°♑			5274 Oct 06 06:59	0°♍		
desc. node	5272 May 25 20:26	21°♑26'27			5274 Oct 30 16:41	0°♌		
morning max el	5272 Jun 01 09:43	27°♑44'42	46°25'53	desc. node	5274 Nov 10 15:30	13°♌26'31		
	5272 Jun 03 16:15	0°♒			5274 Nov 24 03:47	0°♎		
	5272 Jul 01 21:51	0°♓			5274 Dec 18 16:45	0°♏		
	5272 Jul 28 08:24	0°♈			5275 Jan 12 09:20	0°♐		
	5272 Aug 23 00:09	0°♈			5275 Feb 06 11:04	0°♑		
asc. node	5272 Sep 15 21:58	28°♈30'23		asc. node	5275 Mar 03 16:57	29°♑06'42		
	5272 Sep 17 03:46	0°♍			5275 Mar 04 12:02	0°♒		
	5272 Oct 11 21:36	0°♎		evening max el	5275 Mar 24 21:16	21°♒46'21	46°53'52	

	5275 Apr 02 07:14	0°♐		morning set	5277 Sep 16 06:20	17°♐04'46	
greatest brilliancy	5275 May 03 20:16	22°♐32'02	-4.8m		5277 Sep 26 18:18	0°♐	
retrograde	5275 May 14 08:39	24°♐36'54		max. Earth dist.	5277 Oct 20 08:52	29°♐09'52	1.72880 AU
evening set	5275 May 30 05:12	19°♐41'42			5277 Oct 21 01:04	0°♐	
inferior conj	5275 Jun 04 12:02	16°♐29'40	4°26'35				
minimum elong	5275 Jun 04 20:53	16°♐15'52	4°24'11	superior conj	5277 Oct 22 18:31	2°♐08'21	1°22'30
min. Earth dist.	5275 Jun 04 09:21	16°♐33'52	0.28009 AU	minimum elong	5277 Oct 22 23:21	2°♐23'19	1°22'27
morning rise	5275 Jun 10 12:54	12°♐52'51			5277 Nov 14 05:39	0°♐	
desc. node	5275 Jun 23 08:10	8°♐34'28		evening rise	5277 Nov 29 12:32	18°♐59'25	
direct	5275 Jun 25 12:53	8°♐28'42		desc. node	5277 Dec 08 03:19	29°♐42'17	
greatest brilliancy	5275 Jul 05 10:44	10°♐16'03	-4.8m		5277 Dec 08 09:01	0°♐	
	5275 Aug 04 04:45	0°♐			5278 Jan 01 11:37	0°♐	
morning max el	5275 Aug 13 10:44	8°♐30'18	45°46'39		5278 Jan 25 13:59	0°♐	
	5275 Sep 03 14:46	0°♐			5278 Feb 18 17:50	0°♐	
	5275 Sep 30 18:08	0°♐			5278 Mar 15 02:57	0°♐	
asc. node	5275 Oct 14 09:58	15°♐45'19		asc. node	5278 Mar 31 04:49	19°♐29'20	
	5275 Oct 26 12:32	0°♐			5278 Apr 08 23:48	0°♐	
	5275 Nov 20 11:36	0°♐			5278 May 04 19:51	0°♐	
	5275 Dec 14 22:33	0°♐			5278 Jun 01 19:50	0°♐	
	5276 Jan 08 02:12	0°♐		evening max el	5278 Jun 04 03:17	2°♐17'14	45°58'31
	5276 Feb 01 01:40	0°♐			5278 Jul 10 02:19	0°♐	
desc. node	5276 Feb 03 00:59	2°♐28'23		greatest brilliancy	5278 Jul 12 06:53	0°♐54'20	-4.7m
greatest brilliancy	5276 Feb 09 14:40	10°♐43'08	-3.9m	desc. node	5278 Jul 20 20:08	3°♐00'18	
morning set	5276 Feb 09 15:27	10°♐45'34		retrograde	5278 Jul 23 09:21	3°♐07'48	
	5276 Feb 24 22:51	0°♐			5278 Aug 04 23:37	30°♐	
	5276 Mar 19 19:20	0°♐		evening set	5278 Aug 08 01:04	28°♐23'38	
				inferior conj	5278 Aug 13 21:08	24°♐51'08	-5°19'30
superior conj	5276 Mar 21 23:16	2°♐43'16	-1°24'43	minimum elong	5278 Aug 13 11:37	25°♐06'05	5°17'17
minimum elong	5276 Mar 21 17:40	2°♐25'39	1°24'39	min. Earth dist.	5278 Aug 13 10:13	25°♐08'16	0.28978 AU
max. Earth dist.	5276 Mar 23 21:23	5°♐08'13	1.71259 AU	morning rise	5278 Aug 18 22:28	21°♐46'08	
	5276 Apr 12 16:48	0°♐		direct	5278 Sep 04 11:00	16°♐36'36	
evening rise	5276 May 01 12:07	23°♐30'38		greatest brilliancy	5278 Sep 14 11:40	18°♐25'40	-4.7m
	5276 May 06 17:08	0°♐			5278 Oct 04 08:34	0°♐	
asc. node	5276 May 26 02:32	24°♐03'46		morning max el	5278 Oct 23 08:25	16°♐39'01	45°50'26
	5276 May 30 21:54	0°♐			5278 Nov 05 14:04	0°♐	
	5276 Jun 24 08:16	0°♐		asc. node	5278 Nov 10 21:39	5°♐38'16	
	5276 Jul 19 01:45	0°♐			5278 Dec 02 18:24	0°♐	
	5276 Aug 13 05:15	0°♐			5278 Dec 28 06:14	0°♐	
	5276 Sep 08 00:42	0°♐			5279 Jan 21 22:54	0°♐	
desc. node	5276 Sep 14 17:47	7°♐37'07			5279 Feb 15 05:48	0°♐	
	5276 Oct 05 00:53	0°♐		desc. node	5279 Mar 02 12:55	19°♐02'19	
evening max el	5276 Oct 27 06:47	22°♐48'32	46°09'27		5279 Mar 11 07:42	0°♐	
	5276 Nov 03 23:05	0°♐			5279 Apr 04 07:25	0°♐	
greatest brilliancy	5276 Dec 06 02:25	21°♐52'37	-4.8m	morning set	5279 Apr 27 05:19	28°♐39'24	
retrograde	5276 Dec 15 16:29	23°♐34'30			5279 Apr 28 07:08	0°♐	
evening set	5276 Dec 30 02:39	19°♐29'06			5279 May 22 08:36	0°♐	
inferior conj	5277 Jan 05 07:53	15°♐51'26	-0°07'21				
minimum elong	5277 Jan 05 08:10	15°♐51'00	0°07'15	superior conj	5279 Jun 05 06:34	17°♐17'01	-0°42'19
transit middle	5277 Jan 05 08:10	15°♐51'00	0°07'15	minimum elong	5279 Jun 05 15:21	17°♐44'15	0°41'56
transit begin	5277 Jan 05 04:30	15°♐56'36		max. Earth dist.	5279 Jun 08 18:28	21°♐37'05	1.72583 AU
transit end	5277 Jan 05 11:50	15°♐45'24			5279 Jun 15 12:51	0°♐	
min. Earth dist.	5277 Jan 05 16:29	15°♐38'19	0.26890 AU	asc. node	5279 Jun 23 14:21	9°♐58'16	
asc. node	5277 Jan 05 19:18	15°♐34'02			5279 Jul 09 20:02	0°♐	
morning rise	5277 Jan 11 13:15	12°♐13'07		evening rise	5279 Jul 13 06:21	4°♐13'27	
direct	5277 Jan 26 00:53	8°♐03'29			5279 Aug 03 05:57	0°♐	
greatest brilliancy	5277 Feb 05 13:04	10°♐09'22	-4.9m		5279 Aug 27 19:02	0°♐	
	5277 Mar 06 01:16	0°♐			5279 Sep 21 12:36	0°♐	
morning max el	5277 Mar 17 16:20	11°♐14'02	46°58'59	desc. node	5279 Oct 13 05:36	26°♐04'19	
	5277 Apr 04 09:36	0°♐			5279 Oct 16 12:36	0°♐	
desc. node	5277 Apr 27 10:44	26°♐05'42			5279 Nov 10 21:41	0°♐	
	5277 Apr 30 19:24	0°♐			5279 Dec 06 21:44	0°♐	
	5277 May 26 05:26	0°♐			5280 Jan 03 08:05	0°♐	
	5277 Jun 20 05:42	0°♐		evening max el	5280 Jan 09 04:07	5°♐58'43	47°02'03
	5277 Jul 15 01:35	0°♐		asc. node	5280 Feb 03 07:12	28°♐24'08	
	5277 Aug 08 18:34	0°♐			5280 Feb 05 12:53	0°♐	
asc. node	5277 Aug 18 12:07	11°♐51'30		greatest brilliancy	5280 Feb 18 18:51	7°♐12'26	-4.9m
	5277 Sep 02 08:17	0°♐		retrograde	5280 Feb 28 19:00	9°♐06'40	

evening set	5280 Mar 17 06:00	3°♿13'40			5282 Jul 24 14:47	0°♋	
inferior conj	5280 Mar 20 11:35	1°♿14'54	8°48'38				
minimum elong	5280 Mar 20 06:10	1°♿23'17	8°48'11	superior conj	5282 Aug 13 18:00	24°♋46'21	0°52'42
min. Earth dist.	5280 Mar 19 23:02	1°♿34'19	0.27066 AU	minimum elong	5282 Aug 13 09:09	24°♋19'08	0°52'20
	5280 Mar 22 12:15	30°♋♋		max. Earth dist.	5282 Aug 13 12:07	24°♋28'15	1.73447 AU
morning rise	5280 Mar 23 06:28	29°♋32'25			5282 Aug 17 23:57	0°♎	
direct	5280 Apr 10 01:07	23°♋29'53			5282 Sep 11 08:49	0°♎	
greatest brilliancy	5280 Apr 19 07:04	25°♋06'29	-4.9m	evening rise	5282 Sep 18 19:37	9°♎10'22	
	5280 Apr 29 11:54	0°♿			5282 Oct 05 17:49	0°♎	
desc. node	5280 May 24 22:22	20°♿29'48			5282 Oct 30 03:46	0°♎	
morning max el	5280 May 29 22:02	25°♿19'30	46°27'27	desc. node	5282 Nov 09 17:26	12°♎57'53	
	5280 Jun 03 14:11	0°♿			5282 Nov 23 15:17	0°♿	
	5280 Jul 01 13:49	0°♿			5282 Dec 18 04:49	0°♿	
	5280 Jul 27 21:59	0°♿			5283 Jan 11 22:13	0°♿	
	5280 Aug 22 12:29	0°♿			5283 Feb 06 01:19	0°♿	
asc. node	5280 Sep 14 24:00	28°♿01'33		asc. node	5283 Mar 02 18:59	28°♿25'18	
	5280 Sep 16 15:22	0°♎			5283 Mar 04 05:06	0°♿	
	5280 Oct 11 08:47	0°♎		evening max el	5283 Mar 22 12:15	19°♿28'01	46°55'35
	5280 Nov 04 18:36	0°♎			5283 Apr 02 09:34	0°♿	
morning set	5280 Nov 24 08:41	24°♎16'43		greatest brilliancy	5283 May 01 11:35	20°♿15'43	-4.8m
	5280 Nov 28 23:03	0°♎		retrograde	5283 May 12 00:32	22°♿21'05	
	5280 Dec 23 00:05	0°♿		evening set	5283 May 27 22:57	17°♿21'56	
max. Earth dist.	5280 Dec 30 12:16	9°♿23'42	1.71618 AU	inferior conj	5283 Jun 02 02:59	14°♿13'57	4°45'25
				minimum elong	5283 Jun 02 12:16	13°♿59'30	4°42'57
superior conj	5281 Jan 02 04:10	12°♿43'45	0°05'58	min. Earth dist.	5283 Jun 02 00:09	14°♿18'22	0.27980 AU
minimum elong	5281 Jan 02 05:39	12°♿48'25	0°05'55	morning rise	5283 Jun 08 01:58	10°♿40'10	
behind sun begin	5281 Jan 01 05:55	11°♿34'05		desc. node	5283 Jun 22 10:13	6°♿14'05	
behind sun end	5281 Jan 03 05:24	14°♿02'45		direct	5283 Jun 23 03:48	6°♿13'27	
desc. node	5281 Jan 04 15:12	15°♿48'36		greatest brilliancy	5283 Jul 03 00:36	8°♿00'33	-4.8m
	5281 Jan 15 22:55	0°♿			5283 Aug 04 07:24	0°♿	
	5281 Feb 08 20:25	0°♿		morning max el	5283 Aug 11 02:55	6°♿20'27	45°47'17
evening rise	5281 Feb 11 15:11	3°♿29'39			5283 Sep 03 07:23	0°♿	
	5281 Mar 04 17:51	0°♿			5283 Sep 30 07:44	0°♿	
	5281 Mar 28 17:20	0°♿		asc. node	5283 Oct 13 11:51	15°♿13'33	
	5281 Apr 21 21:45	0°♿			5283 Oct 26 00:47	0°♿	
asc. node	5281 Apr 27 16:39	7°♿07'32			5283 Nov 19 23:09	0°♿	
	5281 May 16 10:24	0°♿			5283 Dec 14 09:44	0°♿	
	5281 Jun 10 11:42	0°♿			5284 Jan 07 13:11	0°♿	
	5281 Jul 06 10:02	0°♿			5284 Jan 31 12:34	0°♿	
	5281 Aug 03 02:59	0°♿		desc. node	5284 Feb 02 03:01	2°♿00'35	
evening max el	5281 Aug 13 16:12	10°♿28'27	45°32'51	morning set	5284 Feb 07 01:47	8°♿13'13	
desc. node	5281 Aug 17 08:00	13°♿55'42			5284 Feb 24 09:43	0°♿	
	5281 Sep 05 18:05	0°♎		superior conj	5284 Mar 19 09:49	0°♿11'32	-1°23'41
greatest brilliancy	5281 Sep 21 17:32	8°♎32'10	-4.7m	minimum elong	5284 Mar 19 03:14	29°♿50'49	1°23'36
retrograde	5281 Oct 01 08:42	10°♎13'16			5284 Mar 19 06:09	0°♿	
evening set	5281 Oct 19 08:58	4°♎10'57		max. Earth dist.	5284 Mar 21 05:50	2°♿29'54	1.71233 AU
inferior conj	5281 Oct 22 17:16	2°♎07'37	-8°23'06		5284 Apr 12 03:35	0°♿	
minimum elong	5281 Oct 22 22:15	1°♎59'52	8°22'42	evening rise	5284 Apr 29 00:05	21°♿04'46	
min. Earth dist.	5281 Oct 23 10:38	1°♎40'34	0.28694 AU		5284 May 06 03:53	0°♿	
morning rise	5281 Oct 26 11:17	29°♎49'04		asc. node	5284 May 25 04:35	23°♿36'42	
	5281 Oct 26 04:00	30°♎♎			5284 May 30 08:42	0°♿	
direct	5281 Nov 13 03:18	23°♎52'22			5284 Jun 23 19:17	0°♿	
greatest brilliancy	5281 Nov 24 06:56	26°♎08'55	-4.8m		5284 Jul 18 13:12	0°♿	
	5281 Dec 02 01:59	0°♎			5284 Aug 12 17:31	0°♿	
asc. node	5281 Dec 08 09:27	4°♎08'37			5284 Sep 07 14:30	0°♎	
morning max el	5282 Jan 02 06:56	26°♎05'22	46°33'10	desc. node	5284 Sep 13 19:41	7°♎01'54	
	5282 Jan 06 03:10	0°♎			5284 Oct 04 18:03	0°♎	
	5282 Feb 02 11:45	0°♿		evening max el	5284 Oct 24 21:25	20°♎32'08	46°07'25
	5282 Feb 28 00:35	0°♿			5284 Nov 04 03:10	0°♿	
	5282 Mar 24 19:33	0°♿		greatest brilliancy	5284 Dec 03 15:39	19°♿29'42	-4.8m
desc. node	5282 Mar 30 00:47	6°♿22'33		retrograde	5284 Dec 13 05:03	21°♿10'26	
	5282 Apr 18 06:25	0°♿		evening set	5284 Dec 27 16:34	17°♿03'57	
	5282 May 12 14:06	0°♿		inferior conj	5285 Jan 02 20:44	13°♿27'16	-0°31'18
	5282 Jun 05 21:27	0°♿		minimum elong	5285 Jan 02 21:56	13°♿25'25	0°30'54
	5282 Jun 30 05:42	0°♿		min. Earth dist.	5285 Jan 03 06:29	13°♿12'20	0.26927 AU
morning set	5282 Jul 07 15:04	9°♿05'49		asc. node	5285 Jan 04 21:21	12°♿13'13	
asc. node	5282 Jul 21 02:17	25°♿40'09					

morning rise	5285 Jan 09 02:52	9°  47'33	evening rise	5287 Jul 10 23:19	2°  05'16	
direct	5285 Jan 23 14:32	5°  38'49		5287 Aug 02 16:37	0° 	
greatest brilliancy	5285 Feb 03 03:20	7°  45'04 -4.9m		5287 Aug 27 05:56	0° 	
	5285 Mar 06 05:05	0° 		5287 Sep 20 23:57	0° 	
morning max el	5285 Mar 15 05:37	8°  49'22 46°59'01	desc. node	5287 Oct 12 07:35	25°  13'42'26	
	5285 Apr 04 03:10	0° 		5287 Oct 16 00:43	0° 	
desc. node	5285 Apr 26 12:39	25°  18'28'47		5287 Nov 10 11:06	0° 	
	5285 Apr 30 09:45	0° 		5287 Dec 06 13:27	0° 	
	5285 May 25 18:12	0° 		5288 Jan 03 05:16	0° 	
	5285 Jun 19 17:31	0° 	evening max el	5288 Jan 06 16:28	3°  13'28 47°00'47	
	5285 Jul 14 12:48	0° 	asc. node	5288 Feb 02 09:13	27°  18'04'07	
	5285 Aug 08 05:23	0° 		5288 Feb 06 19:18	0° 	
asc. node	5285 Aug 17 14:06	11°  12'24'59	greatest brilliancy	5288 Feb 16 08:28	4°  19'46'11 -4.9m	
	5285 Sep 01 18:52	0° 	retrograde	5288 Feb 26 07:39	6°  19'40'02	
morning set	5285 Sep 13 24:00	14°  19'59'17	evening set	5288 Mar 14 15:01	0°  19'53'05	
	5285 Sep 26 04:47	0° 		5288 Mar 16 02:14	30°  18'18'18	
max. Earth dist.	5285 Oct 18 00:45	26°  12'58'02 1.72921 AU	min. Earth dist.	5288 Mar 17 11:54	29°  12'08'16 0.27034 AU	
			inferior conj	5288 Mar 18 00:24	28°  12'48'57 8°42'16	
superior conj	5285 Oct 20 11:39	0°  12'00'15 1°23'18	minimum elong	5288 Mar 17 18:09	28°  12'58'37 8°41'41	
minimum elong	5285 Oct 20 15:48	0°  12'13'07 1°23'15	morning rise	5288 Mar 20 21:22	27°  12'18'03'27	
	5285 Oct 20 11:34	0° 	direct	5288 Apr 07 13:01	21°  12'18'04'06	
	5285 Nov 13 16:16	0° 	greatest brilliancy	5288 Apr 16 20:19	22°  12'18'41'43 -4.9m	
evening rise	5285 Nov 27 02:59	16°  12'18'41'50		5288 Apr 30 18:38	0° 	
desc. node	5285 Dec 07 05:25	29°  12'15'12	desc. node	5288 May 24 00:32	19°  12'15'35'26	
	5285 Dec 07 19:49	0° 	morning max el	5288 May 27 10:54	22°  12'15'56'12 46°29'12	
	5285 Dec 31 22:39	0° 		5288 Jun 03 11:03	0° 	
	5286 Jan 25 01:17	0° 		5288 Jul 01 05:14	0° 	
	5286 Feb 18 05:29	0° 		5288 Jul 27 11:09	0° 	
	5286 Mar 14 15:10	0° 		5288 Aug 22 00:28	0° 	
asc. node	5286 Mar 30 06:43	18°  12'18'56'36	asc. node	5288 Sep 14 01:55	27°  12'18'33'18	
	5286 Apr 08 13:01	0° 		5288 Sep 16 02:39	0° 	
	5286 May 04 11:08	0° 		5288 Oct 10 19:40	0° 	
	5286 Jun 01 16:58	0° 		5288 Nov 04 05:19	0° 	
evening max el	5286 Jun 01 18:35	0°  12'03'59 46°00'20	morning set	5288 Nov 22 00:20	22°  12'02'59	
greatest brilliancy	5286 Jul 09 23:56	28°  12'04'46'29 -4.7m		5288 Nov 28 09:44	0° 	
	5286 Jul 13 18:31	0° 		5288 Dec 22 10:48	0° 	
desc. node	5286 Jul 19 22:11	0° 	max. Earth dist.	5288 Dec 28 02:23	7°  12'04'01 1.71664 AU	
retrograde	5286 Jul 21 01:26	0° 				
	5286 Jul 28 02:43	30°  12'18'30'12	superior conj	5288 Dec 30 16:41	10°  12'18'31'01 0°09'43	
evening set	5286 Aug 05 15:30	26°  12'18'27	minimum elong	5288 Dec 30 19:06	10°  12'18'26'35 0°09'37	
min. Earth dist.	5286 Aug 11 02:40	23°  12'00'15 0.28948 AU	behind sun begin	5288 Dec 29 22:35	9°  12'22'20	
inferior conj	5286 Aug 11 13:34	22°  12'04'30'06 -5°03'46	behind sun end	5288 Dec 31 15:37	11°  12'30'30'50	
minimum elong	5286 Aug 11 04:17	22°  12'05'43 5°01'33	desc. node	5289 Jan 03 17:15	15°  12'32'21'18	
morning rise	5286 Aug 16 17:21	19°  12'03'34'20		5289 Jan 15 09:44	0° 	
direct	5286 Sep 02 02:54	14°  12'02'29'04		5289 Feb 08 07:20	0° 	
greatest brilliancy	5286 Sep 12 03:26	16°  12'17'32 -4.7m	evening rise	5289 Feb 09 02:15	0°  12'18'59'23	
	5286 Oct 04 18:01	0° 		5289 Mar 04 04:53	0° 	
morning max el	5286 Oct 20 22:33	14°  12'24'59 45°49'21		5289 Mar 28 04:32	0° 	
	5286 Nov 05 07:38	0° 		5289 Apr 21 09:11	0° 	
asc. node	5286 Nov 09 23:45	4°  12'15'59'12	asc. node	5289 Apr 26 18:43	6°  12'18'38'31	
	5286 Dec 02 08:23	0° 		5289 May 15 22:16	0° 	
	5286 Dec 27 18:48	0° 		5289 Jun 10 00:25	0° 	
	5287 Jan 21 10:46	0° 		5289 Jul 06 00:32	0° 	
	5287 Feb 14 17:15	0° 		5289 Aug 02 22:02	0° 	
desc. node	5287 Mar 01 14:54	18°  12'18'33'25	evening max el	5289 Aug 11 07:34	8°  12'18'17'10 45°32'54	
	5287 Mar 10 18:52	0° 	desc. node	5289 Aug 16 09:57	13°  12'18'04'18	
	5287 Apr 03 18:22	0° 		5289 Sep 06 15:29	0° 	
morning set	5287 Apr 24 17:31	26°  12'13'51	greatest brilliancy	5289 Sep 19 06:53	6°  12'19'32 -4.7m	
	5287 Apr 27 17:55	0° 	retrograde	5289 Sep 29 00:38	8°  12'02'32	
	5287 May 21 19:17	0° 	evening set	5289 Oct 17 01:39	1°  12'57'43	
			inferior conj	5289 Oct 20 08:57	29°  12'55'50 -8°27'23	
superior conj	5287 Jun 02 21:05	15°  12'00'13 -0°45'24	minimum elong	5289 Oct 20 13:14	29°  12'49'11 8°27'07	
minimum elong	5287 Jun 03 06:20	15°  12'28'55 0°45'01		5289 Oct 20 06:17	30°  12'18'30'12	
max. Earth dist.	5287 Jun 06 10:38	19°  12'25'32 1.72530 AU	min. Earth dist.	5289 Oct 21 01:01	29°  12'30'49 0.28744 AU	
	5287 Jun 14 23:28	0° 	morning rise	5289 Oct 24 00:36	27°  12'18'40'58	
asc. node	5287 Jun 22 16:28	9°  12'32'06	direct	5289 Nov 10 19:40	21°  12'18'40'03	
	5287 Jul 09 06:37	0° 	greatest brilliancy	5289 Nov 21 22:07	23°  12'18'55'48 -4.8m	

	5289 Dec 03 06:32	0°♌			5292 Jul 18 01:00	0°♐	
asc. node	5289 Dec 07 11:30	2°♌57'25			5292 Aug 12 06:08	0°♌	
morning max el	5289 Dec 30 23:11	23°♌51'30 46°31'32			5292 Sep 07 04:44	0°♌	
	5290 Jan 05 23:12	0°♌		desc. node	5292 Sep 12 21:41	6°♌25'58	
	5290 Feb 02 02:58	0°♌			5292 Oct 04 11:53	0°♌	
	5290 Feb 27 13:57	0°♌		evening max el	5292 Oct 22 11:28	18°♌13'46 46°05'25	
	5290 Mar 24 07:58	0°♌			5292 Nov 04 09:30	0°♌	
desc. node	5290 Mar 29 02:45	5°♌51'00		greatest brilliancy	5292 Dec 01 05:39	17°♌07'30 -4.8m	
	5290 Apr 17 18:15	0°♌		retrograde	5292 Dec 10 17:17	18°♌46'34	
	5290 May 12 01:31	0°♌		evening set	5292 Dec 25 06:52	14°♌38'38	
	5290 Jun 05 08:32	0°♌		inferior conj	5292 Dec 31 09:50	11°♌03'24 -0°54'56	
	5290 Jun 29 16:32	0°♌		minimum elong	5292 Dec 31 11:56	11°♌00'10 0°54'14	
morning set	5290 Jul 05 07:34	6°♌55'41		min. Earth dist.	5292 Dec 31 21:04	10°♌46'10 0.26965 AU	
asc. node	5290 Jul 20 04:11	25°♌13'08		asc. node	5293 Jan 03 23:18	8°♌54'10	
	5290 Jul 24 01:27	0°♌		morning rise	5293 Jan 06 16:28	7°♌22'26	
				direct	5293 Jan 21 03:53	3°♌14'15	
superior conj	5290 Aug 11 11:39	22°♌40'15 0°50'07		greatest brilliancy	5293 Jan 31 18:17	5°♌21'27 -4.9m	
minimum elong	5290 Aug 11 03:00	22°♌13'36 0°49'46			5293 Mar 06 07:27	0°♌	
max. Earth dist.	5290 Aug 11 10:22	22°♌36'16 1.73441 AU		morning max el	5293 Mar 12 18:21	6°♌22'46 46°59'05	
	5290 Aug 17 10:34	0°♌			5293 Apr 03 20:32	0°♌	
	5290 Sep 10 19:30	0°♌		desc. node	5293 Apr 25 14:49	24°♌52'16	
evening rise	5290 Sep 16 13:43	7°♌05'24			5293 Apr 30 00:09	0°♌	
	5290 Oct 05 04:40	0°♌			5293 May 25 07:09	0°♌	
	5290 Oct 29 14:53	0°♌			5293 Jun 19 05:37	0°♌	
desc. node	5290 Nov 08 19:33	12°♌29'51			5293 Jul 14 00:21	0°♌	
	5290 Nov 23 02:46	0°♌			5293 Aug 07 16:34	0°♌	
	5290 Dec 17 16:54	0°♌		asc. node	5293 Aug 16 16:04	10°♌57'10	
	5291 Jan 11 11:11	0°♌			5293 Sep 01 05:49	0°♌	
	5291 Feb 05 15:45	0°♌		morning set	5293 Sep 11 17:25	12°♌51'59	
asc. node	5291 Mar 01 20:52	27°♌42'32			5293 Sep 25 15:37	0°♌	
	5291 Mar 03 22:42	0°♌		max. Earth dist.	5293 Oct 15 17:19	24°♌47'21 1.72958 AU	
evening max el	5291 Mar 20 03:50	17°♌10'22 46°56'55					
	5291 Apr 02 13:58	0°♌		superior conj	5293 Oct 18 04:48	27°♌51'19 1°23'57	
greatest brilliancy	5291 Apr 29 02:57	17°♌57'57 -4.9m		minimum elong	5293 Oct 18 08:16	28°♌02'04 1°23'57	
retrograde	5291 May 09 16:11	20°♌03'09			5293 Oct 19 22:23	0°♌	
evening set	5291 May 25 16:33	15°♌00'15			5293 Nov 13 03:12	0°♌	
inferior conj	5291 May 30 17:37	11°♌56'18 5°03'58		evening rise	5293 Nov 24 17:43	14°♌24'17	
minimum elong	5291 May 31 03:17	11°♌41'16 5°01'29		desc. node	5293 Dec 06 07:24	28°♌46'51	
min. Earth dist.	5291 May 30 14:34	12°♌01'04 0.27948 AU			5293 Dec 07 06:57	0°♌	
morning rise	5291 Jun 05 14:28	8°♌25'47			5293 Dec 31 10:00	0°♌	
direct	5291 Jun 20 18:35	3°♌56'32			5294 Jan 24 12:53	0°♌	
desc. node	5291 Jun 21 12:14	3°♌57'11			5294 Feb 17 17:26	0°♌	
greatest brilliancy	5291 Jun 30 13:42	5°♌42'38 -4.8m			5294 Mar 14 03:41	0°♌	
	5291 Aug 04 08:57	0°♌		asc. node	5294 Mar 29 08:51	18°♌23'41	
morning max el	5291 Aug 08 18:32	4°♌08'25 45°48'04			5294 Apr 08 02:36	0°♌	
	5291 Sep 02 23:54	0°♌			5294 May 04 02:58	0°♌	
	5291 Sep 29 21:20	0°♌		evening max el	5294 May 30 09:11	27°♌47'51 46°01'58	
asc. node	5291 Oct 12 13:54	14°♌42'03			5294 Jun 01 15:22	0°♌	
	5291 Oct 25 13:05	0°♌		greatest brilliancy	5294 Jul 07 16:36	26°♌36'28 -4.7m	
	5291 Nov 19 10:47	0°♌		retrograde	5294 Jul 18 17:22	28°♌49'20	
	5291 Dec 13 21:00	0°♌		desc. node	5294 Jul 19 00:08	28°♌49'15	
	5292 Jan 07 00:17	0°♌		evening set	5294 Aug 03 05:51	24°♌11'03	
	5292 Jan 30 23:34	0°♌		inferior conj	5294 Aug 09 05:53	20°♌33'16 -4°47'29	
desc. node	5292 Feb 01 04:58	1°♌32'12		minimum elong	5294 Aug 08 20:51	20°♌47'28 4°45'16	
morning set	5292 Feb 04 12:46	5°♌42'33		min. Earth dist.	5294 Aug 08 19:11	20°♌50'06 0.28922 AU	
	5292 Feb 23 20:41	0°♌		morning rise	5294 Aug 14 12:05	17°♌20'54	
				direct	5294 Aug 30 18:22	12°♌19'31	
superior conj	5292 Mar 16 20:36	27°♌40'03 -1°22'29		greatest brilliancy	5294 Sep 09 19:41	14°♌08'12 -4.7m	
minimum elong	5292 Mar 16 13:07	27°♌16'32 1°22'23			5294 Oct 05 01:31	0°♌	
max. Earth dist.	5292 Mar 18 14:43	29°♌52'27 1.71214 AU		morning max el	5294 Oct 18 13:03	12°♌10'31 45°48'30	
	5292 Mar 18 17:07	0°♌			5294 Nov 05 01:16	0°♌	
	5292 Apr 11 14:33	0°♌		asc. node	5294 Nov 09 01:50	4°♌19'15	
evening rise	5292 Apr 26 11:48	18°♌37'12			5294 Dec 01 22:37	0°♌	
	5292 May 05 14:54	0°♌			5294 Dec 27 07:37	0°♌	
asc. node	5292 May 24 06:38	23°♌08'41			5295 Jan 20 22:53	0°♌	
	5292 May 29 19:50	0°♌			5295 Feb 14 04:59	0°♌	
	5292 Jun 23 06:39	0°♌		desc. node	5295 Feb 28 16:51	18°♌03'31	

	5295 Mar 10 06:19	0° H		desc. node	5297 Aug 15 11:58	12° L 11'21	
	5295 Apr 03 05:36	0° Y			5297 Sep 07 21:50	0° M	
morning set	5295 Apr 22 05:49	23° Y 47'30		greatest brilliancy	5297 Sep 16 20:07	4° M 05'55	-4.7m
	5295 Apr 27 05:00	0° B		retrograde	5297 Sep 26 16:13	5° M 50'28	
	5295 May 21 06:15	0° II			5297 Oct 14 07:08	30° R L	
				evening set	5297 Oct 14 17:57	29° L 43'51	
superior conj	5295 May 31 11:43	12° II 42'48	-0°48'24	inferior conj	5297 Oct 18 00:31	27° L 42'53	-8°30'56
minimum elong	5295 May 31 21:23	13° II 12'50	0°48'01	minimum elong	5297 Oct 18 04:02	27° L 37'23	8°30'46
max. Earth dist.	5295 Jun 04 01:25	17° II 08'42	1.72479 AU	min. Earth dist.	5297 Oct 18 15:09	27° L 20'03	0.28793 AU
	5295 Jun 14 10:23	0° E		morning rise	5297 Oct 21 13:58	25° L 31'15	
asc. node	5295 Jun 21 18:23	9° E 04'20		direct	5297 Nov 08 12:13	19° L 26'42	
evening rise	5295 Jul 08 16:16	29° E 56'05		greatest brilliancy	5297 Nov 19 12:47	21° L 40'52	-4.8m
	5295 Jul 08 17:33	0° L			5297 Dec 04 03:50	0° M	
	5295 Aug 02 03:40	0° M		asc. node	5297 Dec 06 13:25	1° M 46'50	
	5295 Aug 26 17:16	0° L		morning max el	5297 Dec 28 15:13	21° M 36'13	46°29'55
	5295 Sep 20 11:46	0° M			5298 Jan 05 19:01	0° X	
desc. node	5295 Oct 11 09:41	25° M 03'33			5298 Feb 01 18:16	0° Z	
	5295 Oct 15 13:20	0° X			5298 Feb 27 03:25	0° \approx	
	5295 Nov 10 01:00	0° Z			5298 Mar 23 20:30	0° H	
	5295 Dec 06 05:47	0° \approx		desc. node	5298 Mar 28 04:53	5° H 19'38	
	5296 Jan 03 03:37	0° H			5298 Apr 17 06:11	0° Y	
evening max el	5296 Jan 04 05:22	1° H 04'53	46°59'36		5298 May 11 13:03	0° B	
asc. node	5296 Feb 01 11:10	25° H 40'27			5298 Jun 04 19:45	0° II	
	5296 Feb 08 16:29	0° Y			5298 Jun 29 03:31	0° E	
greatest brilliancy	5296 Feb 13 21:31	2° Y 18'19	-4.9m	morning set	5298 Jul 03 00:11	4° E 45'21	
retrograde	5296 Feb 23 20:47	4° Y 12'31		asc. node	5298 Jul 19 06:13	24° E 45'58	
	5296 Mar 09 09:25	30° R H			5298 Jul 23 12:17	0° L	
evening set	5296 Mar 11 23:46	28° H 31'37					
min. Earth dist.	5296 Mar 15 00:29	26° H 41'25	0.27003 AU	superior conj	5298 Aug 09 05:26	20° L 34'05	0°47'29
inferior conj	5296 Mar 15 13:11	26° H 21'51	8°34'55	minimum elong	5298 Aug 08 21:00	20° L 08'09	0°47'07
minimum elong	5296 Mar 15 06:07	26° H 32'44	8°34'10	max. Earth dist.	5298 Aug 09 09:11	20° L 45'39	1.73431 AU
morning rise	5296 Mar 18 12:34	24° H 33'00			5298 Aug 16 21:20	0° M	
direct	5296 Apr 05 01:18	18° H 37'09			5298 Sep 10 06:19	0° L	
greatest brilliancy	5296 Apr 14 09:12	20° H 15'35	-4.9m	evening rise	5298 Sep 14 07:59	5° L 00'32	
	5296 May 01 17:19	0° Y			5298 Oct 04 15:39	0° M	
desc. node	5296 May 23 02:28	18° Y 40'53			5298 Oct 29 02:11	0° X	
morning max el	5296 May 25 00:49	20° Y 34'35	46°31'01	desc. node	5298 Nov 07 21:33	12° X 00'49	
	5296 Jun 03 07:32	0° B			5298 Nov 22 14:30	0° Z	
	5296 Jun 30 20:41	0° II			5298 Dec 17 05:14	0° \approx	
	5296 Jul 27 00:29	0° E			5299 Jan 11 00:26	0° H	
	5296 Aug 21 12:40	0° L			5299 Feb 05 06:32	0° Y	
asc. node	5296 Sep 13 03:59	27° L 04'35		asc. node	5299 Feb 28 23:00	26° Y 59'39	
	5296 Sep 15 14:13	0° M			5299 Mar 03 16:49	0° B	
	5296 Oct 10 06:54	0° L		evening max el	5299 Mar 17 19:13	14° B 51'51	46°58'18
	5296 Nov 03 16:23	0° M			5299 Apr 02 20:27	0° II	
morning set	5296 Nov 19 15:54	19° M 48'02		greatest brilliancy	5299 Apr 26 18:52	15° II 40'42	-4.9m
	5296 Nov 27 20:45	0° X		retrograde	5299 May 07 07:32	17° II 44'51	
	5296 Dec 21 21:50	0° Z		evening set	5299 May 23 10:18	12° II 38'24	
max. Earth dist.	5296 Dec 25 16:43	4° Z 44'09	1.71703 AU	inferior conj	5299 May 28 08:19	9° II 38'33	5°22'07
				minimum elong	5299 May 28 18:16	9° II 23'02	5°19'37
superior conj	5296 Dec 28 05:10	7° Z 53'16	0°13'27	min. Earth dist.	5299 May 28 05:11	9° II 43'25	0.27915 AU
minimum elong	5296 Dec 28 08:28	8° Z 03'37	0°13'18	morning rise	5299 Jun 03 02:43	6° II 11'18	
behind sun begin	5296 Dec 27 17:58	7° Z 18'14		direct	5299 Jun 18 09:15	1° II 39'33	
behind sun end	5296 Dec 28 22:58	8° Z 49'00		desc. node	5299 Jun 20 14:13	1° II 45'15	
desc. node	5297 Jan 02 19:09	14° Z 52'41		greatest brilliancy	5299 Jun 28 02:58	3° II 24'31	-4.8m
	5297 Jan 14 20:48	0° \approx			5299 Aug 04 09:18	0° E	
evening rise	5297 Feb 06 13:21	28° \approx 28'28		morning max el	5299 Aug 06 09:28	1° E 54'33	45°48'55
	5297 Feb 07 18:31	0° H			5299 Sep 02 16:07	0° L	
	5297 Mar 03 16:12	0° Y			5299 Sep 29 10:50	0° M	
	5297 Mar 27 16:01	0° B		asc. node	5299 Oct 11 15:59	14° M 10'50	
	5297 Apr 20 20:54	0° II			5299 Oct 25 01:19	0° L	
asc. node	5297 Apr 25 20:45	6° II 08'29			5299 Nov 18 22:23	0° M	
	5297 May 15 10:25	0° E			5299 Dec 13 08:18	0° X	
	5297 Jun 09 13:28	0° L			5300 Jan 06 11:26	0° Z	
	5297 Jul 05 15:26	0° M			5300 Jan 30 10:39	0° \approx	
	5297 Aug 02 17:57	0° L		desc. node	5300 Jan 31 07:03	1° \approx 03'58	
evening max el	5297 Aug 08 23:33	6° L 06'43	45°32'51	morning set	5300 Feb 01 23:25	3° \approx 10'36	

	5300 Feb 23 07:44	0° H		morning rise	5302 Aug 13 06:47	15° Ω 08'32	
				direct	5302 Aug 29 09:47	10° Ω 10'38	
superior conj	5300 Mar 15 07:00	25° H 07'16 -1°21'07		greatest brilliancy	5302 Sep 08 11:57	11° Ω 59'53	-4.7m
minimum elong	5300 Mar 14 22:41	24° H 41'07 1°20'58			5302 Oct 06 06:22	0° M	
max. Earth dist.	5300 Mar 16 20:30	27° H 05'09 1.71191 AU		morning max el	5302 Oct 17 04:35	9° M 59'34	45°47'47
	5300 Mar 19 04:07	0° Y			5302 Nov 05 18:10	0° Ω	
	5300 Apr 12 01:31	0° B		asc. node	5302 Nov 09 03:41	3° Ω 40'10	
evening rise	5300 Apr 24 23:08	16° B 08'26			5302 Dec 02 12:21	0° M	
	5300 May 06 01:53	0° II			5302 Dec 27 20:01	0° X	
asc. node	5300 May 24 08:33	22° II 40'25			5303 Jan 21 10:38	0° Z	
	5300 May 30 06:56	0° S			5303 Feb 14 16:20	0° \approx	
	5300 Jun 23 18:00	0° Ω		desc. node	5303 Feb 28 18:59	17° \approx 35'14	
	5300 Jul 18 12:47	0° M			5303 Mar 10 17:26	0° H	
	5300 Aug 12 18:45	0° Ω			5303 Apr 03 16:33	0° Y	
	5300 Sep 07 19:01	0° M		morning set	5303 Apr 20 17:39	21° Y 20'22	
desc. node	5300 Sep 12 23:50	5° M 50'32			5303 Apr 27 15:50	0° B	
	5300 Oct 05 05:58	0° X			5303 May 21 16:59	0° II	
evening max el	5300 Oct 21 00:32	15° X 53'38 46°03'25					
	5300 Nov 05 18:01	0° Z		superior conj	5303 May 30 01:48	10° II 24'22 -0°51'22	
greatest brilliancy	5300 Nov 29 19:41	14° Z 45'53 -4.8m		minimum elong	5303 May 30 11:51	10° II 55'36 0°50'58	
retrograde	5300 Dec 09 05:15	16° Z 23'25		max. Earth dist.	5303 Jun 02 14:13	14° II 46'26 1.72427 AU	
evening set	5300 Dec 23 21:17	12° Z 13'22			5303 Jun 14 21:02	0° S	
inferior conj	5300 Dec 29 22:57	8° Z 40'03 -1°18'18		asc. node	5303 Jun 21 20:24	8° S 37'39	
minimum elong	5300 Dec 30 01:56	8° Z 35'28 1°17'21		evening rise	5303 Jul 07 08:50	27° S 46'35	
min. Earth dist.	5300 Dec 30 11:53	8° Z 20'12 0.27012 AU			5303 Jul 09 04:11	0° Ω	
asc. node	5301 Jan 04 01:19	5° Z 37'24			5303 Aug 02 14:24	0° M	
morning rise	5301 Jan 05 05:53	4° Z 58'10			5303 Aug 27 04:17	0° Ω	
direct	5301 Jan 19 17:00	0° Z 49'49			5303 Sep 20 23:17	0° M	
greatest brilliancy	5301 Jan 30 09:57	2° Z 58'54 -4.9m		desc. node	5303 Oct 11 11:39	24° M 33'14	
	5301 Mar 07 08:29	0° \approx			5303 Oct 16 01:39	0° X	
morning max el	5301 Mar 11 07:08	3° \approx 56'08 46°59'04			5303 Nov 10 14:39	0° Z	
	5301 Apr 04 13:34	0° H			5303 Dec 06 21:57	0° \approx	
desc. node	5301 Apr 25 16:46	24° H 15'33		evening max el	5304 Jan 02 19:26	28° \approx 42'53 46°58'27	
	5301 Apr 30 14:21	0° Y			5304 Jan 04 02:19	0° H	
	5301 May 25 19:55	0° B		asc. node	5304 Feb 01 13:15	24° H 15'54	
	5301 Jun 19 17:31	0° II		greatest brilliancy	5304 Feb 12 10:01	29° H 51'35 -4.9m	
	5301 Jul 14 11:41	0° S			5304 Feb 12 19:22	0° Y	
	5301 Aug 08 03:32	0° Ω		retrograde	5304 Feb 22 10:27	1° Y 46'43	
asc. node	5301 Aug 16 18:09	10° Ω 30'22			5304 Mar 02 16:48	30° R H	
	5301 Sep 01 16:33	0° M		evening set	5304 Mar 10 08:31	26° H 11'57	
morning set	5301 Sep 10 10:58	10° M 45'35		min. Earth dist.	5304 Mar 13 12:52	24° H 16'36 0.26975 AU	
	5301 Sep 26 02:14	0° Ω		inferior conj	5304 Mar 14 02:03	23° H 56'20 8°26'36	
max. Earth dist.	5301 Oct 14 11:11	22° Ω 41'21 1.72994 AU		minimum elong	5304 Mar 13 18:17	24° H 08'17 8°25'39	
				morning rise	5304 Mar 17 04:11	22° H 03'41	
superior conj	5301 Oct 16 22:15	25° Ω 44'01 1°24'30		direct	5304 Apr 03 14:15	16° H 11'56	
minimum elong	5301 Oct 17 01:03	25° Ω 52'40 1°24'30		greatest brilliancy	5304 Apr 12 21:45	17° H 50'30 -4.9m	
	5301 Oct 20 09:00	0° M			5304 May 03 09:32	0° Y	
	5301 Nov 13 13:55	0° X		desc. node	5304 May 23 04:28	17° Y 48'40	
evening rise	5301 Nov 23 08:52	12° X 08'54		morning max el	5304 May 23 15:34	18° Y 16'03 46°32'33	
desc. node	5301 Dec 06 09:22	28° X 19'09			5304 Jun 04 03:02	0° B	
	5301 Dec 07 17:50	0° Z			5304 Jul 01 11:37	0° II	
	5301 Dec 31 21:08	0° \approx			5304 Jul 27 13:25	0° S	
	5302 Jan 25 00:19	0° H			5304 Aug 22 00:29	0° Ω	
	5302 Feb 18 05:16	0° Y		asc. node	5304 Sep 13 06:01	26° Ω 36'52	
	5302 Mar 14 16:08	0° B			5304 Sep 16 01:24	0° M	
asc. node	5302 Mar 29 10:50	17° B 50'34			5304 Oct 10 17:44	0° Ω	
	5302 Apr 08 16:09	0° II			5304 Nov 04 03:04	0° M	
	5302 May 04 18:53	0° S		morning set	5304 Nov 18 07:40	17° M 34'59	
evening max el	5302 May 28 23:42	25° S 32'03 46°03'56			5304 Nov 28 07:23	0° X	
	5302 Jun 02 14:28	0° Ω			5304 Dec 22 08:29	0° Z	
greatest brilliancy	5302 Jul 06 08:45	24° Ω 26'35 -4.8m		max. Earth dist.	5304 Dec 24 04:55	2° Z 18'50 1.71741 AU	
retrograde	5302 Jul 17 09:44	26° Ω 40'14					
desc. node	5302 Jul 19 02:11	26° Ω 36'51		superior conj	5304 Dec 26 18:02	5° Z 29'56 0°17'07	
evening set	5302 Aug 01 20:21	22° Ω 04'05		minimum elong	5304 Dec 26 22:11	5° Z 42'57 0°16'57	
inferior conj	5302 Aug 07 22:11	18° Ω 24'12 -4°30'47		desc. node	5305 Jan 02 21:16	14° Z 25'47	
minimum elong	5302 Aug 07 13:28	18° Ω 37'52 4°28'35			5305 Jan 15 07:31	0° \approx	
min. Earth dist.	5302 Aug 07 11:32	18° Ω 40'55 0.28895 AU		evening rise	5305 Feb 05 00:49	25° \approx 59'56	

	5305 Feb 08 05:18	0°		morning max el	5307 Aug 04 23:41	29°	39°38' 45°49'44"
	5305 Mar 04 03:06	0°			5307 Aug 05 08:10	0°	
	5305 Mar 28 03:05	0°			5307 Sep 03 07:49	0°	
	5305 Apr 21 08:14	0°			5307 Sep 30 00:01	0°	
asc. node	5305 Apr 25 22:41	5°	39'21"	asc. node	5307 Oct 11 17:51	13°	39'39"
	5305 May 15 22:15	0°			5307 Oct 25 13:20	0°	
	5305 Jun 10 02:15	0°			5307 Nov 19 09:47	0°	
	5305 Jul 06 06:14	0°			5307 Dec 13 19:22	0°	
	5305 Aug 03 14:10	0°			5308 Jan 06 22:22	0°	
evening max el	5305 Aug 07 15:53	3°	57'56" 45°32'54"		5308 Jan 30 21:32	0°	
desc. node	5305 Aug 15 14:05	11°	18'37"	morning set	5308 Jan 31 10:06	0°	39'24"
	5305 Sep 10 17:29	0°		desc. node	5308 Jan 31 09:03	0°	36'08"
greatest brilliancy	5305 Sep 15 10:04	1°	54'25" -4.7m		5308 Feb 23 18:37	0°	
retrograde	5305 Sep 25 07:36	3°	39'52"				
	5305 Oct 09 01:02	30°		superior conj	5308 Mar 12 17:27	22°	35'04" -1°19'35"
evening set	5305 Oct 13 10:10	27°	11'32"	minimum elong	5308 Mar 12 08:20	22°	06'26" 1°19'23"
inferior conj	5305 Oct 16 16:15	25°	31'38" -8°33'49"	max. Earth dist.	5308 Mar 13 22:57	24°	07'51" 1.71174 AU
minimum elong	5305 Oct 16 19:01	25°	27'20" 8°33'42"		5308 Mar 18 14:58	0°	
min. Earth dist.	5305 Oct 17 05:34	25°	10'51" 0.28835 AU		5308 Apr 11 12:21	0°	
morning rise	5305 Oct 20 03:45	23°	22'46"	evening rise	5308 Apr 22 10:27	13°	39'56"
direct	5305 Nov 07 04:52	17°	15'14"		5308 May 05 12:44	0°	
greatest brilliancy	5305 Nov 18 03:23	19°	27'25" -4.8m	asc. node	5308 May 23 10:37	22°	13'00"
	5305 Dec 05 18:58	0°			5308 May 29 17:53	0°	
asc. node	5305 Dec 06 15:31	0°	39'52"		5308 Jun 23 05:11	0°	
morning max el	5305 Dec 27 06:37	19°	20'39" 46°28'11"		5308 Jul 18 00:26	0°	
	5306 Jan 06 13:49	0°			5308 Aug 12 07:19	0°	
	5306 Feb 02 08:59	0°			5308 Sep 07 09:21	0°	
	5306 Feb 27 16:26	0°		desc. node	5308 Sep 12 01:43	5°	14'22"
	5306 Mar 24 08:36	0°			5308 Oct 05 00:28	0°	
desc. node	5306 Mar 28 06:49	4°	48'47"	evening max el	5308 Oct 18 13:21	13°	33'13" 46°01'32"
	5306 Apr 17 17:43	0°			5308 Nov 06 05:28	0°	
	5306 May 12 00:10	0°		greatest brilliancy	5308 Nov 27 09:33	12°	32'43" -4.8m
	5306 Jun 05 06:34	0°		retrograde	5308 Dec 06 17:38	14°	30'16"
	5306 Jun 29 14:08	0°		evening set	5308 Dec 21 12:01	9°	34'25"
morning set	5306 Jul 01 16:52	2°	36'14"	inferior conj	5308 Dec 27 12:13	6°	31'23" -1°41'25"
asc. node	5306 Jul 19 08:18	24°	19'59"	minimum elong	5308 Dec 27 16:03	6°	31'13" 1°40'11"
	5306 Jul 23 22:48	0°		min. Earth dist.	5308 Dec 28 02:42	5°	35'11" 0.27062 AU
				morning rise	5309 Jan 02 19:17	2°	35'09"
superior conj	5306 Aug 07 23:08	18°	28'35" 0°44'46"	asc. node	5309 Jan 03 03:23	2°	34'21"
minimum elong	5306 Aug 07 14:59	18°	03'31" 0°44'24"		5309 Jan 08 12:18	30°	
max. Earth dist.	5306 Aug 08 06:38	18°	51'41" 1.73420 AU	direct	5309 Jan 17 06:17	28°	25'56"
	5306 Aug 17 07:49	0°			5309 Jan 26 08:21	0°	
	5306 Sep 10 16:52	0°		greatest brilliancy	5309 Jan 28 01:50	0°	37'20" -4.9m
evening rise	5306 Sep 13 02:06	2°	56'05"		5309 Mar 07 08:13	0°	
	5306 Oct 05 02:22	0°		morning max el	5309 Mar 08 20:37	1°	31'35" 46°58'57"
	5306 Oct 29 13:11	0°			5309 Apr 04 06:11	0°	
desc. node	5306 Nov 07 23:30	11°	32'34"	desc. node	5309 Apr 24 18:43	23°	39'08"
	5306 Nov 23 01:58	0°			5309 Apr 30 04:22	0°	
	5306 Dec 17 17:21	0°			5309 May 25 08:35	0°	
	5307 Jan 11 13:30	0°			5309 Jun 19 05:23	0°	
	5307 Feb 05 21:12	0°			5309 Jul 13 23:01	0°	
asc. node	5307 Mar 01 01:01	26°	16'48"		5309 Aug 07 14:30	0°	
	5307 Mar 04 11:04	0°		asc. node	5309 Aug 15 20:07	10°	03'14"
evening max el	5307 Mar 16 10:05	12°	32'41" 46°59'36"		5309 Sep 01 03:17	0°	
	5307 Apr 04 04:56	0°		morning set	5309 Sep 08 04:38	8°	39'34"
greatest brilliancy	5307 Apr 25 11:21	13°	25'04" -4.9m		5309 Sep 25 12:53	0°	
retrograde	5307 May 05 22:21	15°	27'40"	max. Earth dist.	5309 Oct 12 06:50	20°	40'41" 1.73033 AU
evening set	5307 May 22 04:13	10°	17'37"				
inferior conj	5307 May 26 23:07	7°	22'06" 5°39'42"	superior conj	5309 Oct 14 15:45	23°	36'38" 1°24'56"
minimum elong	5307 May 27 09:18	7°	06'11" 5°37'13"	minimum elong	5309 Oct 14 17:50	23°	43'06" 1°24'55"
min. Earth dist.	5307 May 26 20:12	7°	26'38" 0.27881 AU		5309 Oct 19 19:41	0°	
morning rise	5307 Jun 01 14:51	3°	58'14"		5309 Nov 13 00:44	0°	
	5307 Jun 11 11:52	30°		evening rise	5309 Nov 21 00:01	9°	53'15"
direct	5307 Jun 16 23:39	29°	32'48"	desc. node	5309 Dec 05 11:28	27°	51'31"
desc. node	5307 Jun 20 16:16	29°	39'33"		5309 Dec 07 04:51	0°	
	5307 Jun 22 14:53	0°			5309 Dec 31 08:22	0°	
greatest brilliancy	5307 Jun 26 16:46	1°	08'02" -4.8m		5310 Jan 24 11:51	0°	

	5310 Feb 17 17:13	0°♿			5312 Oct 10 04:55	0°♄		
	5310 Mar 14 04:46	0°♄			5312 Nov 03 14:05	0°♄		
asc. node	5310 Mar 28 12:45	17°♄16'44		morning set	5312 Nov 15 23:41	15°♄21'43		
	5310 Apr 08 06:00	0°♄			5312 Nov 27 18:21	0°♄		
	5310 May 04 11:18	0°♄		max. Earth dist.	5312 Dec 21 15:57	29°♄48'56	1.71784 AU	
evening max el	5310 May 26 14:55	23°♄17'22	46°05'56		5312 Dec 21 19:30	0°♄		
	5310 Jun 02 14:55	0°♄						
greatest brilliancy	5310 Jul 04 00:23	22°♄15'23	-4.8m	superior conj	5312 Dec 24 07:06	3°♄06'16	0°20'45	
retrograde	5310 Jul 15 02:30	24°♄30'22		minimum elong	5312 Dec 24 12:04	3°♄21'47	0°20'31	
desc. node	5310 Jul 18 04:14	24°♄19'01		desc. node	5313 Jan 01 23:18	13°♄57'30		
evening set	5310 Jul 30 10:57	19°♄56'07			5313 Jan 14 18:38	0°♄		
min. Earth dist.	5310 Aug 05 03:32	16°♄31'18	0.28865 AU	evening rise	5313 Feb 02 12:07	23°♄29'31		
inferior conj	5310 Aug 05 14:23	16°♄14'19	-4°13'33		5313 Feb 07 16:33	0°♄		
minimum elong	5310 Aug 05 06:02	16°♄27'22	4°11'23		5313 Mar 03 14:29	0°♄		
morning rise	5310 Aug 11 01:21	12°♄55'37			5313 Mar 27 14:37	0°♄		
direct	5310 Aug 27 01:28	8°♄01'02			5313 Apr 20 20:03	0°♄		
greatest brilliancy	5310 Sep 06 03:43	9°♄50'35	-4.7m	asc. node	5313 Apr 25 00:45	5°♄09'14		
	5310 Oct 06 09:36	0°♄			5313 May 15 10:35	0°♄		
morning max el	5310 Oct 14 20:42	7°♄49'46	45°47'01		5313 Jun 09 15:36	0°♄		
	5310 Nov 05 10:54	0°♄			5313 Jul 05 21:44	0°♄		
asc. node	5310 Nov 08 05:49	3°♄01'43			5313 Aug 03 11:40	0°♄		
	5310 Dec 02 02:10	0°♄		evening max el	5313 Aug 05 07:28	1°♄45'52	45°32'57	
	5310 Dec 27 08:37	0°♄		desc. node	5313 Aug 14 16:00	10°♄22'54		
	5311 Jan 20 22:36	0°♄		greatest brilliancy	5313 Sep 13 00:38	29°♄42'15	-4.7m	
	5311 Feb 14 03:57	0°♄			5313 Sep 13 22:19	0°♄		
desc. node	5311 Feb 27 20:56	17°♄05'34		retrograde	5313 Sep 22 22:35	1°♄28'01		
	5311 Mar 10 04:47	0°♄			5313 Oct 01 13:51	30°♄		
	5311 Apr 03 03:44	0°♄		evening set	5313 Oct 11 02:03	25°♄19'53		
morning set	5311 Apr 18 05:16	18°♄51'48		inferior conj	5313 Oct 14 08:00	23°♄19'19	-8°35'55	
	5311 Apr 27 02:53	0°♄		minimum elong	5313 Oct 14 09:59	23°♄16'12	8°35'51	
	5311 May 21 03:57	0°♄		min. Earth dist.	5313 Oct 14 20:17	23°♄00'05	0.28872 AU	
				morning rise	5313 Oct 17 17:47	21°♄12'43		
superior conj	5311 May 27 15:43	8°♄04'28	-0°54'15	direct	5313 Nov 04 21:04	15°♄02'44		
minimum elong	5311 May 28 02:05	8°♄36'40	0°53'52	greatest brilliancy	5313 Nov 15 18:18	17°♄13'15	-4.8m	
max. Earth dist.	5311 May 31 04:16	12°♄27'07	1.72379 AU	asc. node	5313 Dec 05 17:32	29°♄33'30		
	5311 Jun 14 07:57	0°♄			5313 Dec 06 06:41	0°♄		
asc. node	5311 Jun 20 22:30	8°♄10'23		morning max el	5313 Dec 24 20:51	17°♄01'16	46°26'33	
evening rise	5311 Jul 05 01:22	25°♄35'58			5314 Jan 06 08:28	0°♄		
	5311 Jul 08 15:07	0°♄			5314 Feb 01 23:51	0°♄		
	5311 Aug 02 01:27	0°♄			5314 Feb 27 05:45	0°♄		
	5311 Aug 26 15:36	0°♄			5314 Mar 23 21:05	0°♄		
	5311 Sep 20 11:06	0°♄		desc. node	5314 Mar 27 08:48	4°♄16'56		
desc. node	5311 Oct 10 13:38	24°♄02'10			5314 Apr 17 05:41	0°♄		
	5311 Oct 15 14:18	0°♄			5314 May 11 11:45	0°♄		
	5311 Nov 10 04:45	0°♄			5314 Jun 04 17:51	0°♄		
	5311 Dec 06 14:49	0°♄		morning set	5314 Jun 29 09:06	0°♄24'21		
evening max el	5311 Dec 31 10:09	26°♄21'13	46°57'02		5314 Jun 29 01:12	0°♄		
	5312 Jan 04 02:36	0°♄		asc. node	5314 Jul 18 10:13	23°♄52'10		
asc. node	5312 Jan 31 15:14	22°♄46'27			5314 Jul 23 09:43	0°♄		
greatest brilliancy	5312 Feb 09 22:14	27°♄22'44	-4.9m					
retrograde	5312 Feb 19 23:55	29°♄18'31		superior conj	5314 Aug 05 16:33	16°♄20'59	0°41'57	
evening set	5312 Mar 07 16:52	23°♄50'25		minimum elong	5314 Aug 05 08:44	15°♄56'56	0°41'37	
min. Earth dist.	5312 Mar 11 00:59	21°♄49'36	0.26945 AU	max. Earth dist.	5314 Aug 06 02:50	16°♄52'36	1.73407 AU	
inferior conj	5312 Mar 11 14:39	21°♄28'36	8°17'08		5314 Aug 16 18:43	0°♄		
minimum elong	5312 Mar 11 06:14	21°♄41'32	8°16'00		5314 Sep 10 03:50	0°♄		
morning rise	5312 Mar 14 19:46	19°♄31'41		evening rise	5314 Sep 10 20:07	0°♄50'03		
direct	5312 Apr 01 03:19	13°♄44'46			5314 Oct 04 13:30	0°♄		
greatest brilliancy	5312 Apr 10 09:50	15°♄22'57	-4.9m		5314 Oct 29 00:36	0°♄		
	5312 May 03 22:18	0°♄		desc. node	5314 Nov 07 01:36	11°♄03'38		
morning max el	5312 May 21 05:41	15°♄54'39	46°34'03		5314 Nov 22 13:50	0°♄		
desc. node	5312 May 22 06:36	16°♄56'32			5314 Dec 17 05:50	0°♄		
	5312 Jun 03 22:24	0°♄			5315 Jan 11 02:57	0°♄		
	5312 Jul 01 02:45	0°♄			5315 Feb 05 12:23	0°♄		
	5312 Jul 27 02:38	0°♄		asc. node	5315 Feb 28 02:54	25°♄31'55		
	5312 Aug 21 12:39	0°♄			5315 Mar 04 06:12	0°♄		
asc. node	5312 Sep 12 07:57	26°♄07'41		evening max el	5315 Mar 13 23:45	10°♄09'06	47°00'37	
	5312 Sep 15 12:56	0°♄			5315 Apr 04 17:17	0°♄		

greatest brilliancy	5315 Apr 23 03:46	11° Π 07'15	-4.9m		5317 Sep 24 23:37	0° Ω	
retrograde	5315 May 03 12:37	13° Π 08'14		max. Earth dist.	5317 Oct 10 03:35	18° Ω 43'13	1.73068 AU
evening set	5315 May 19 21:55	7° Π 54'15					
inferior conj	5315 May 24 13:40	5° Π 03'22	5°56'48	superior conj	5317 Oct 12 09:00	21° Ω 28'20	1°25'13
minimum elong	5315 May 25 00:02	4° Π 47'10	5°54'22	minimum elong	5317 Oct 12 10:23	21° Ω 32'34	1°25'14
min. Earth dist.	5315 May 24 11:14	5° Π 07'10	0.27852 AU		5317 Oct 19 06:27	0° \mathbb{M}	
morning rise	5315 May 30 02:31	1° Π 43'15			5317 Nov 12 11:38	0° \mathcal{X}	
	5315 Jun 02 10:37	30° \mathcal{R} \mathcal{B}		evening rise	5317 Nov 18 15:06	7° \mathcal{X} 37'14	
direct	5315 Jun 14 13:20	27° \mathcal{B} 05'33		desc. node	5317 Dec 04 13:27	27° \mathcal{X} 23'13	
desc. node	5315 Jun 19 18:17	27° \mathcal{B} 36'27			5317 Dec 06 15:57	0° \mathcal{Z}	
greatest brilliancy	5315 Jun 24 06:56	28° \mathcal{B} 49'52	-4.8m		5317 Dec 30 19:43	0° \approx	
	5315 Jun 27 07:21	0° Π			5318 Jan 23 23:29	0° \mathcal{H}	
morning max el	5315 Aug 02 13:26	27° Π 21'57	45°50'44		5318 Feb 17 05:15	0° \mathcal{Y}	
	5315 Aug 05 06:42	0° \mathcal{G}			5318 Mar 13 17:26	0° \mathcal{B}	
	5315 Sep 02 23:41	0° Ω		asc. node	5318 Mar 27 14:53	16° \mathcal{B} 43'40	
	5315 Sep 29 13:29	0° \mathbb{M}			5318 Apr 07 19:51	0° Π	
asc. node	5315 Oct 10 19:57	13° \mathbb{M} 08'12			5318 May 04 03:49	0° \mathcal{G}	
	5315 Oct 25 01:38	0° Ω		evening max el	5318 May 24 06:57	21° \mathcal{G} 05'11	46°07'52
	5315 Nov 18 21:28	0° \mathbb{M}			5318 Jun 02 16:27	0° Ω	
	5315 Dec 13 06:44	0° \mathcal{X}		greatest brilliancy	5318 Jul 01 15:51	20° Ω 04'22	-4.8m
	5316 Jan 06 09:34	0° \mathcal{Z}		retrograde	5318 Jul 12 19:29	22° Ω 20'40	
morning set	5316 Jan 28 21:16	28° \mathcal{Z} 08'56		desc. node	5318 Jul 17 06:10	21° Ω 56'48	
desc. node	5316 Jan 30 11:01	0° \approx 07'24		evening set	5318 Jul 28 01:48	17° Ω 48'17	
	5316 Jan 30 08:40	0° \approx		inferior conj	5318 Aug 03 06:36	14° Ω 04'34	-3°55'53
	5316 Feb 23 05:41	0° \mathcal{H}		minimum elong	5318 Aug 02 22:41	14° Ω 16'57	3°53'48
				min. Earth dist.	5318 Aug 02 19:18	14° Ω 22'13	0.28836 AU
superior conj	5316 Mar 10 04:12	20° \mathcal{H} 03'14	-1°17'52	morning rise	5318 Aug 08 19:54	10° Ω 42'59	
minimum elong	5316 Mar 09 18:24	19° \mathcal{H} 32'24	1°17'39	direct	5318 Aug 24 17:47	5° Ω 51'44	
max. Earth dist.	5316 Mar 11 02:04	21° \mathcal{H} 12'01	1.71162 AU	greatest brilliancy	5318 Sep 03 19:05	7° Ω 40'59	-4.7m
	5316 Mar 18 02:00	0° \mathcal{Y}			5318 Oct 06 11:16	0° \mathbb{M}	
	5316 Apr 10 23:24	0° \mathcal{B}		morning max el	5318 Oct 12 13:10	5° \mathbb{M} 41'03	45°46'11
evening rise	5316 Apr 19 21:51	11° \mathcal{B} 10'58			5318 Nov 05 03:16	0° Ω	
	5316 May 04 23:51	0° Π		asc. node	5318 Nov 07 07:52	2° Ω 23'35	
asc. node	5316 May 22 12:40	21° Π 44'43			5318 Dec 01 15:48	0° \mathbb{M}	
	5316 May 29 05:08	0° \mathcal{G}			5318 Dec 26 21:04	0° \mathcal{X}	
	5316 Jun 22 16:41	0° Ω			5319 Jan 20 10:26	0° \mathcal{Z}	
	5316 Jul 17 12:26	0° \mathbb{M}			5319 Feb 13 15:25	0° \approx	
	5316 Aug 11 20:14	0° Ω		desc. node	5319 Feb 26 22:54	16° \approx 36'20	
	5316 Sep 07 00:11	0° \mathbb{M}			5319 Mar 09 16:00	0° \mathcal{H}	
desc. node	5316 Sep 11 03:46	4° \mathbb{M} 37'30			5319 Apr 02 14:46	0° \mathcal{Y}	
	5316 Oct 04 19:50	0° \mathcal{X}		morning set	5319 Apr 15 17:03	16° \mathcal{Y} 24'11	
evening max el	5316 Oct 16 02:18	11° \mathcal{X} 12'31	45°59'45		5319 Apr 26 13:46	0° \mathcal{B}	
	5316 Nov 06 21:16	0° \mathcal{Z}			5319 May 20 14:42	0° Π	
greatest brilliancy	5316 Nov 24 22:46	10° \mathcal{Z} 01'52	-4.8m				
retrograde	5316 Dec 04 06:31	11° \mathcal{Z} 38'28		superior conj	5319 May 25 05:51	5° Π 45'50	-0°57'02
evening set	5316 Dec 19 02:51	7° \mathcal{Z} 22'26		minimum elong	5319 May 25 16:27	6° Π 18'48	0°56'39
inferior conj	5316 Dec 25 01:22	3° \mathcal{Z} 53'51	-2°04'23	max. Earth dist.	5319 May 28 21:03	10° Π 16'53	1.72327 AU
minimum elong	5316 Dec 25 06:02	3° \mathcal{Z} 46'43	2°02'54		5319 Jun 13 18:37	0° \mathcal{G}	
min. Earth dist.	5316 Dec 25 17:06	3° \mathcal{Z} 29'47	0.27112 AU	asc. node	5319 Jun 20 00:25	7° \mathcal{G} 43'19	
morning rise	5316 Dec 31 08:24	0° \mathcal{Z} 11'50		evening rise	5319 Jul 02 18:05	23° \mathcal{G} 26'46	
	5316 Dec 31 17:16	30° \mathcal{R} \mathcal{X}			5319 Jul 08 01:47	0° Ω	
asc. node	5317 Jan 02 05:21	29° \mathcal{X} 14'05			5319 Aug 01 12:17	0° \mathbb{M}	
direct	5317 Jan 14 19:52	26° \mathcal{X} 01'14			5319 Aug 26 02:44	0° Ω	
greatest brilliancy	5317 Jan 25 17:11	28° \mathcal{X} 14'38	-4.9m		5319 Sep 19 22:46	0° \mathbb{M}	
	5317 Jan 29 15:37	0° \mathcal{Z}		desc. node	5319 Oct 09 15:43	23° \mathbb{M} 31'49	
morning max el	5317 Mar 06 11:02	29° \mathcal{Z} 09'11	46°59'01		5319 Oct 15 02:50	0° \mathcal{X}	
	5317 Mar 07 07:04	0° \approx			5319 Nov 09 18:47	0° \mathcal{Z}	
	5317 Apr 03 22:32	0° \mathcal{H}			5319 Dec 06 07:48	0° \approx	
desc. node	5317 Apr 23 20:53	23° \mathcal{H} 03'33		evening max el	5319 Dec 29 00:51	24° \approx 00'13	46°55'29
	5317 Apr 29 18:16	0° \mathcal{Y}			5320 Jan 04 03:50	0° \mathcal{H}	
	5317 May 24 21:14	0° \mathcal{B}		asc. node	5320 Jan 30 17:12	21° \mathcal{H} 14'19	
	5317 Jun 18 17:17	0° Π		greatest brilliancy	5320 Feb 07 10:47	24° \mathcal{H} 54'52	-4.9m
	5317 Jul 13 10:26	0° \mathcal{G}		retrograde	5320 Feb 17 12:57	26° \mathcal{H} 50'34	
	5317 Aug 07 01:35	0° Ω		evening set	5320 Mar 05 01:08	21° \mathcal{H} 29'33	
asc. node	5317 Aug 14 22:07	9° Ω 35'45		min. Earth dist.	5320 Mar 08 13:17	19° \mathcal{H} 22'42	0.26913 AU
	5317 Aug 31 14:08	0° \mathbb{M}		inferior conj	5320 Mar 09 03:11	19° \mathcal{H} 01'20	8°06'42
morning set	5317 Sep 05 22:05	6° \mathbb{M} 32'32		minimum elong	5320 Mar 08 18:10	19° \mathcal{H} 15'12	8°05'24

morning rise	5320 Mar 12 11:24	16° X 59'50			5322 Oct 28 11:38	0° X	
direct	5320 Mar 29 16:19	11° X 18'10		desc. node	5322 Nov 06 03:35	10° X 35'30	
greatest brilliancy	5320 Apr 07 22:06	12° X 55'56	-4.9m		5322 Nov 22 01:21	0° Z	
	5320 May 04 07:29	0° Y			5322 Dec 16 18:04	0° \approx	
morning max el	5320 May 18 18:52	13° Y 31'38	46°35'42		5323 Jan 10 16:12	0° X	
desc. node	5320 May 21 08:31	16° Y 05'37			5323 Feb 05 03:27	0° Y	
	5320 Jun 03 16:54	0° Z		asc. node	5323 Feb 27 05:03	24° Y 48'06	
	5320 Jun 30 17:17	0° II			5323 Mar 04 01:32	0° Z	
	5320 Jul 26 15:20	0° G		evening max el	5323 Mar 11 12:37	7° Z 44'22	47°01'44
	5320 Aug 21 00:22	0° O			5323 Apr 05 09:15	0° II	
asc. node	5320 Sep 11 10:02	25° O 40'09		greatest brilliancy	5323 Apr 20 19:52	8° II 49'50	-4.9m
	5320 Sep 15 00:05	0° np		retrograde	5323 May 01 02:58	10° II 49'50	
	5320 Oct 09 15:46	0° u		evening set	5323 May 17 15:34	5° II 31'27	
	5320 Nov 03 00:48	0° m		inferior conj	5323 May 22 04:10	2° II 45'28	6°13'20
morning set	5320 Nov 13 15:41	13° m 09'20		minimum elong	5323 May 22 14:37	2° II 29'07	6°10'59
	5320 Nov 27 05:02	0° X		min. Earth dist.	5323 May 22 02:10	2° II 48'36	0.27822 AU
max. Earth dist.	5320 Dec 19 01:47	27° X 16'13	1.71828 AU		5323 May 26 16:40	30° R Z	
	5320 Dec 21 06:13	0° Z		morning rise	5323 May 27 13:57	29° Z 29'33	
				direct	5323 Jun 12 02:44	24° Z 47'54	
superior conj	5320 Dec 21 20:15	0° Z 43'50	0°24'20	desc. node	5323 Jun 18 20:16	25° Z 38'54	
minimum elong	5320 Dec 22 01:57	1° Z 01'41	0°24'04	greatest brilliancy	5323 Jun 21 21:19	26° Z 32'51	-4.8m
desc. node	5321 Jan 01 01:13	13° Z 29'48			5323 Jun 29 13:21	0° II	
	5321 Jan 14 05:26	0° \approx		morning max el	5323 Jul 31 03:43	25° II 06'34	45°51'57
evening rise	5321 Jan 30 23:22	21° \approx 00'02			5323 Aug 05 03:55	0° G	
	5321 Feb 07 03:28	0° X			5323 Sep 02 14:52	0° O	
	5321 Mar 03 01:33	0° Y			5323 Sep 29 02:22	0° np	
	5321 Mar 27 01:52	0° Z		asc. node	5323 Oct 09 21:58	12° np 37'59	
	5321 Apr 20 07:35	0° II			5323 Oct 24 13:24	0° u	
asc. node	5321 Apr 24 02:46	4° II 39'51			5323 Nov 18 08:41	0° m	
	5321 May 14 22:37	0° G			5323 Dec 12 17:41	0° X	
	5321 Jun 09 04:37	0° O			5324 Jan 05 20:25	0° Z	
	5321 Jul 05 12:57	0° np		morning set	5324 Jan 26 08:22	25° Z 39'15	
evening max el	5321 Aug 02 22:16	29° np 33'30	45°33'06	desc. node	5324 Jan 29 13:05	29° Z 39'53	
	5321 Aug 03 09:19	0° u			5324 Jan 29 19:30	0° \approx	
desc. node	5321 Aug 13 18:02	9° u 27'59			5324 Feb 22 16:30	0° X	
greatest brilliancy	5321 Sep 10 15:34	27° u 32'22	-4.7m				
retrograde	5321 Sep 20 13:35	29° u 18'29		superior conj	5324 Mar 07 14:30	17° X 30'41	-1°15'59
evening set	5321 Oct 08 17:48	23° u 10'19		minimum elong	5324 Mar 07 04:05	16° X 57'56	1°15'44
inferior conj	5321 Oct 12 00:01	21° u 09'13	-8°37'06	max. Earth dist.	5324 Mar 08 05:22	18° X 17'29	1.71155 AU
minimum elong	5321 Oct 12 01:12	21° u 07'22	8°37'05		5324 Mar 17 12:48	0° Y	
min. Earth dist.	5321 Oct 12 11:29	20° u 51'15	0.28911 AU		5324 Apr 10 10:11	0° Z	
morning rise	5321 Oct 15 08:29	19° u 04'25		evening rise	5324 Apr 17 08:49	8° Z 41'27	
direct	5321 Nov 02 13:04	12° u 52'15			5324 May 04 10:42	0° II	
greatest brilliancy	5321 Nov 13 10:09	15° u 01'55	-4.8m	asc. node	5324 May 21 14:34	21° II 16'55	
asc. node	5321 Dec 04 19:27	28° u 29'55			5324 May 28 16:07	0° G	
	5321 Dec 06 14:45	0° m			5324 Jun 22 03:55	0° O	
morning max el	5321 Dec 22 10:47	14° m 42'11	46°24'50		5324 Jul 17 00:10	0° np	
	5322 Jan 06 02:18	0° X			5324 Aug 11 08:55	0° u	
	5322 Feb 01 14:13	0° Z			5324 Sep 06 14:48	0° m	
	5322 Feb 26 18:37	0° \approx		desc. node	5324 Sep 10 05:52	4° m 01'43	
	5322 Mar 23 09:09	0° X			5324 Oct 04 15:13	0° X	
desc. node	5322 Mar 26 10:56	3° X 46'39		evening max el	5324 Oct 13 16:08	8° X 55'41	45°58'08
	5322 Apr 16 17:14	0° Y			5324 Nov 07 17:27	0° Z	
	5322 May 10 22:55	0° Z		greatest brilliancy	5324 Nov 22 11:32	7° Z 40'49	-4.8m
	5322 Jun 04 04:44	0° II		retrograde	5324 Dec 01 19:59	9° Z 17'46	
morning set	5322 Jun 27 01:22	28° II 13'40		evening set	5324 Dec 16 18:05	4° Z 58'23	
	5322 Jun 28 11:52	0° G		inferior conj	5324 Dec 22 14:44	1° Z 32'12	-2°26'43
asc. node	5322 Jul 17 12:15	23° G 25'54		minimum elong	5324 Dec 22 20:11	1° Z 23'52	2°25'02
	5322 Jul 22 20:15	0° O		min. Earth dist.	5324 Dec 23 07:15	1° Z 06'58	0.27170 AU
					5324 Dec 25 03:23	30° R X	
superior conj	5322 Aug 03 10:14	14° O 15'31	0°39'07	morning rise	5324 Dec 28 21:32	27° X 50'44	
minimum elong	5322 Aug 03 02:48	13° O 52'38	0°38'46	asc. node	5325 Jan 01 07:20	26° X 10'05	
max. Earth dist.	5322 Aug 03 21:44	14° O 50'54	1.73388 AU	direct	5325 Jan 12 10:17	23° X 38'32	
	5322 Aug 16 05:11	0° np		greatest brilliancy	5325 Jan 23 08:10	25° X 53'03	-4.9m
evening rise	5322 Sep 08 14:31	28° np 46'44			5325 Jan 31 12:26	0° Z	
	5322 Sep 09 14:21	0° u		morning max el	5325 Mar 04 02:13	26° Z 49'29	46°58'38
	5322 Oct 04 00:11	0° m			5325 Mar 07 04:45	0° \approx	

	5325 Apr 03 14:28	0° H			5327 Dec 06 01:09	0° \approx	
desc. node	5325 Apr 22 22:47	22° H 27'44		evening max el	5327 Dec 26 15:03	21° \approx 38'12	46°54'01
	5325 Apr 29 07:56	0° Y			5328 Jan 04 06:21	0° H	
	5325 May 24 09:41	0° B		asc. node	5328 Jan 29 19:17	19° H 39'32	
	5325 Jun 18 04:59	0° II		greatest brilliancy	5328 Feb 05 00:04	22° H 28'36	-4.9m
	5325 Jul 12 21:38	0° S		retrograde	5328 Feb 15 01:46	24° H 23'32	
	5325 Aug 06 12:25	0° Ω		evening set	5328 Mar 02 09:42	19° H 09'38	
asc. node	5325 Aug 14 00:10	9° Ω 09'05		min. Earth dist.	5328 Mar 06 02:09	16° H 56'23	0.26882 AU
	5325 Aug 31 00:46	0° M		inferior conj	5328 Mar 06 15:58	16° H 35'07	7°55'30
morning set	5325 Sep 03 15:35	4° M 26'20		minimum elong	5328 Mar 06 06:26	16° H 49'48	7°53'58
	5325 Sep 24 10:09	0° $\underline{\Omega}$		morning rise	5328 Mar 10 03:22	14° H 28'46	
max. Earth dist.	5325 Oct 08 00:04	16° $\underline{\Omega}$ 45'34	1.73095 AU	direct	5328 Mar 27 05:00	8° H 52'33	
				greatest brilliancy	5328 Apr 05 11:07	10° H 30'15	-4.9m
superior conj	5325 Oct 10 02:34	19° $\underline{\Omega}$ 21'38	1°25'23		5328 May 04 14:05	0° Y	
minimum elong	5325 Oct 10 03:14	19° $\underline{\Omega}$ 23'41	1°25'24	morning max el	5328 May 16 07:17	11° Y 06'20	46°37'03
	5325 Oct 18 17:01	0° M		desc. node	5328 May 20 10:32	15° Y 15'45	
	5325 Nov 11 22:18	0° A			5328 Jun 03 11:03	0° B	
evening rise	5325 Nov 16 06:38	5° A 23'28			5328 Jun 30 07:50	0° II	
desc. node	5325 Dec 03 15:24	26° A 55'47			5328 Jul 26 04:12	0° S	
	5325 Dec 06 02:47	0° Z			5328 Aug 20 12:16	0° Ω	
	5325 Dec 30 06:48	0° \approx		asc. node	5328 Sep 10 12:02	25° Ω 11'44	
	5326 Jan 23 10:54	0° H			5328 Sep 14 11:26	0° M	
	5326 Feb 16 17:09	0° Y			5328 Oct 09 02:48	0° $\underline{\Omega}$	
	5326 Mar 13 06:05	0° B			5328 Nov 02 11:41	0° M	
asc. node	5326 Mar 26 16:50	16° B 10'01		morning set	5328 Nov 11 07:34	10° M 56'03	
	5326 Apr 07 09:48	0° II			5328 Nov 26 15:53	0° A	
	5326 May 03 20:41	0° S		max. Earth dist.	5328 Dec 16 12:06	24° A 44'35	1.71871 AU
evening max el	5326 May 21 23:19	18° S 53'34	46°09'52				
	5326 Jun 02 19:32	0° Ω		superior conj	5328 Dec 19 09:36	28° A 21'35	0°27'50
greatest brilliancy	5326 Jun 29 07:44	17° Ω 53'31	-4.8m	minimum elong	5328 Dec 19 16:01	28° A 41'38	0°27'33
retrograde	5326 Jul 10 12:15	20° Ω 10'13			5328 Dec 20 17:06	0° Z	
desc. node	5326 Jul 16 08:13	19° Ω 29'02		desc. node	5328 Dec 31 03:19	13° Z 02'11	
evening set	5326 Jul 25 16:41	15° Ω 39'51			5329 Jan 13 16:24	0° \approx	
inferior conj	5326 Jul 31 22:36	11° Ω 54'15	-3°37'51	evening rise	5329 Jan 28 10:58	18° \approx 31'15	
minimum elong	5326 Jul 31 15:10	12° Ω 05'53	3°35'50		5329 Feb 06 14:32	0° H	
min. Earth dist.	5326 Jul 31 10:54	12° Ω 12'33	0.28803 AU		5329 Mar 02 12:43	0° Y	
morning rise	5326 Aug 06 14:07	8° Ω 29'47			5329 Mar 26 13:13	0° B	
direct	5326 Aug 22 10:08	3° Ω 42'04			5329 Apr 19 19:14	0° II	
greatest brilliancy	5326 Sep 01 09:46	5° Ω 30'19	-4.7m	asc. node	5329 Apr 23 04:42	4° II 09'49	
	5326 Oct 06 11:38	0° M			5329 May 14 10:52	0° S	
morning max el	5326 Oct 10 05:08	3° M 31'19	45°45'28		5329 Jun 08 18:00	0° Ω	
	5326 Nov 04 19:17	0° $\underline{\Omega}$			5329 Jul 05 04:47	0° M	
asc. node	5326 Nov 06 09:43	1° $\underline{\Omega}$ 45'28		evening max el	5329 Jul 31 12:24	27° M 18'17	45°33'18
	5326 Dec 01 05:12	0° M			5329 Aug 03 08:24	0° $\underline{\Omega}$	
	5326 Dec 26 09:19	0° A		desc. node	5329 Aug 12 20:08	8° $\underline{\Omega}$ 30'39	
	5327 Jan 19 22:05	0° Z		greatest brilliancy	5329 Sep 08 06:13	25° $\underline{\Omega}$ 20'41	-4.7m
	5327 Feb 13 02:43	0° \approx		retrograde	5329 Sep 18 04:40	27° $\underline{\Omega}$ 07'39	
desc. node	5327 Feb 26 01:01	16° \approx 07'56		evening set	5329 Oct 06 09:01	20° $\underline{\Omega}$ 59'43	
	5327 Mar 09 03:06	0° H		inferior conj	5329 Oct 09 15:53	18° $\underline{\Omega}$ 57'44	-8°37'35
	5327 Apr 02 01:45	0° Y		minimum elong	5329 Oct 09 16:15	18° $\underline{\Omega}$ 57'09	8°37'35
morning set	5327 Apr 13 04:31	13° Y 55'37		min. Earth dist.	5329 Oct 10 02:35	18° $\underline{\Omega}$ 40'58	0.28948 AU
	5327 Apr 26 00:40	0° B		morning rise	5329 Oct 12 23:20	16° $\underline{\Omega}$ 54'23	
	5327 May 20 01:31	0° II		direct	5329 Oct 31 04:35	10° $\underline{\Omega}$ 40'14	
				greatest brilliancy	5329 Nov 11 02:09	12° $\underline{\Omega}$ 49'42	-4.8m
superior conj	5327 May 22 19:22	3° II 24'57	-0°59'46	asc. node	5329 Dec 03 21:34	27° $\underline{\Omega}$ 27'15	
minimum elong	5327 May 23 06:09	3° II 58'28	0°59'24		5329 Dec 06 20:54	0° M	
max. Earth dist.	5327 May 26 13:52	8° II 06'24	1.72277 AU	morning max el	5329 Dec 20 00:59	12° M 23'00	46°23'16
	5327 Jun 13 05:23	0° S			5330 Jan 05 20:03	0° A	
asc. node	5327 Jun 19 02:26	7° S 16'14			5330 Feb 01 04:42	0° Z	
evening rise	5327 Jun 30 10:05	21° S 14'55			5330 Feb 26 07:40	0° \approx	
	5327 Jul 07 12:35	0° Ω			5330 Mar 22 21:23	0° H	
	5327 Jul 31 23:13	0° M		desc. node	5330 Mar 25 12:50	3° H 15'06	
	5327 Aug 25 13:59	0° $\underline{\Omega}$			5330 Apr 16 04:57	0° Y	
	5327 Sep 19 10:34	0° M			5330 May 10 10:15	0° B	
desc. node	5327 Oct 08 17:39	23° M 00'41			5330 Jun 03 15:48	0° II	
	5327 Oct 14 15:32	0° A		morning set	5330 Jun 24 17:38	26° II 02'08	
	5327 Nov 09 09:01	0° Z			5330 Jun 27 22:45	0° S	

asc. node	5330 Jul 16 14:19	22°☿58'58	inferior conj	5332 Dec 20 04:01	29°♄08'59 -2°48'49
	5330 Jul 22 07:03	0°♌	minimum elong	5332 Dec 20 10:11	28°♄59'32 2°46'57
			min. Earth dist.	5332 Dec 20 21:07	28°♄42'48 0.27226 AU
superior conj	5330 Aug 01 03:44	12°♌08'31 0°36'12	morning rise	5332 Dec 26 10:18	25°♄28'18
minimum elong	5330 Jul 31 20:42	11°♌46'53 0°35'52	asc. node	5332 Dec 31 09:24	23°♄08'54
max. Earth dist.	5330 Aug 01 15:47	12°♌45'36 1.73376 AU	direct	5333 Jan 10 00:49	21°♄14'35
	5330 Aug 15 15:59	0°♍	greatest brilliancy	5333 Jan 20 22:28	23°♄29'15 -4.9m
evening rise	5330 Sep 06 08:42	26°♍41'39		5333 Feb 01 19:39	0°♄
	5330 Sep 09 01:13	0°♎	morning max el	5333 Mar 01 17:09	24°♄28'05 46°58'14
	5330 Oct 03 11:16	0°♏		5333 Mar 07 02:05	0°♎
	5330 Oct 27 23:02	0°♐		5333 Apr 03 06:29	0°♏
desc. node	5330 Nov 05 05:32	10°♐06'10	desc. node	5333 Apr 22 00:48	21°♏51'32
	5330 Nov 21 13:16	0°♑		5333 Apr 28 21:47	0°♐
	5330 Dec 16 06:42	0°♒		5333 May 23 22:23	0°♑
	5331 Jan 10 05:55	0°♓		5333 Jun 17 16:57	0°♒
	5331 Feb 04 19:04	0°♈		5333 Jul 12 09:05	0°♓
asc. node	5331 Feb 26 07:02	24°♈02'17		5333 Aug 05 23:31	0°♌
	5331 Mar 03 21:47	0°♉	asc. node	5333 Aug 13 02:09	8°♌41'27
evening max el	5331 Mar 09 02:00	5°♉20'06 47°02'59		5333 Aug 30 11:38	0°♍
	5331 Apr 06 07:14	0°♊	morning set	5333 Sep 01 09:25	2°♍20'27
greatest brilliancy	5331 Apr 18 11:29	6°♊31'13 -4.9m		5333 Sep 23 20:58	0°♎
retrograde	5331 Apr 28 17:51	8°♊31'07	max. Earth dist.	5333 Oct 05 19:58	14°♎45'19 1.73128 AU
evening set	5331 May 15 09:23	3°♊08'00			
inferior conj	5331 May 19 18:46	0°♊27'03 6°29'16	superior conj	5333 Oct 07 20:19	17°♎14'40 1°25'27
minimum elong	5331 May 20 05:16	0°♊10'40 6°26'59	minimum elong	5333 Oct 07 20:17	17°♎14'33 1°25'27
min. Earth dist.	5331 May 19 16:49	0°♊30'05 0.27793 AU		5333 Oct 18 03:54	0°♏
	5331 May 20 12:07	30°♋♄		5333 Nov 11 09:20	0°♐
morning rise	5331 May 25 01:24	27°♋15'51	evening rise	5333 Nov 13 22:10	3°♐08'30
direct	5331 Jun 09 16:28	22°♋29'44	desc. node	5333 Dec 02 17:32	26°♐27'36
desc. node	5331 Jun 17 22:20	23°♋45'32		5333 Dec 05 14:02	0°♑
greatest brilliancy	5331 Jun 19 11:21	24°♋15'09 -4.8m		5333 Dec 29 18:17	0°♒
	5331 Jul 01 00:46	0°♌		5334 Jan 22 22:43	0°♓
morning max el	5331 Jul 28 18:51	22°♌52'32 45°53'02		5334 Feb 16 05:26	0°♈
	5331 Aug 05 00:39	0°♍		5334 Mar 12 19:06	0°♉
	5331 Sep 02 06:10	0°♎	asc. node	5334 Mar 25 18:46	15°♉35'18
	5331 Sep 28 15:33	0°♏		5334 Apr 07 00:11	0°♊
asc. node	5331 Oct 08 23:52	12°♏06'18		5334 May 03 14:12	0°♋
	5331 Oct 24 01:33	0°♐	evening max el	5334 May 19 15:47	16°♋41'20 46°11'51
	5331 Nov 17 20:17	0°♑		5334 Jun 03 00:42	0°♌
	5331 Dec 12 05:01	0°♒	greatest brilliancy	5334 Jun 27 00:34	15°♌43'18 -4.8m
	5332 Jan 05 07:38	0°♓	retrograde	5334 Jul 08 04:54	17°♌59'28
morning set	5332 Jan 23 19:33	23°♓08'51	desc. node	5334 Jul 15 10:17	16°♌56'23
desc. node	5332 Jan 28 15:07	29°♓11'12	evening set	5334 Jul 23 07:58	13°♌31'09
	5332 Jan 29 06:40	0°♔	min. Earth dist.	5334 Jul 29 02:59	10°♌02'26 0.28765 AU
	5332 Feb 22 03:38	0°♕	inferior conj	5334 Jul 29 14:48	9°♌43'54 -3°19'29
			minimum elong	5334 Jul 29 07:54	9°♌54'44 3°17'35
superior conj	5332 Mar 05 00:44	14°♕56'49 -1°13'56	morning rise	5334 Aug 04 08:22	6°♌16'32
minimum elong	5332 Mar 04 13:47	14°♕22'23 1°13'38	direct	5334 Aug 20 02:27	1°♌32'34
max. Earth dist.	5332 Mar 05 11:38	15°♕31'09 1.71149 AU	greatest brilliancy	5334 Aug 30 00:36	3°♌19'34 -4.7m
	5332 Mar 16 23:55	0°♖		5334 Oct 06 11:00	0°♍
	5332 Apr 09 21:19	0°♗	morning max el	5334 Oct 07 20:18	1°♍19'21 45°44'44
evening rise	5332 Apr 14 19:53	6°♗11'06		5334 Nov 04 11:11	0°♎
	5332 May 03 21:52	0°♘	asc. node	5334 Nov 05 11:52	1°♎08'02
asc. node	5332 May 20 16:38	20°♘48'37		5334 Nov 30 18:44	0°♏
	5332 May 28 03:23	0°♙		5334 Dec 25 21:47	0°♐
	5332 Jun 21 15:27	0°♚		5335 Jan 19 10:01	0°♑
	5332 Jul 16 12:13	0°♛		5335 Feb 12 14:19	0°♒
	5332 Aug 10 22:01	0°♜	desc. node	5335 Feb 25 02:58	15°♒38'09
	5332 Sep 06 06:02	0°♝		5335 Mar 08 14:30	0°♓
desc. node	5332 Sep 09 07:46	3°♝23'48		5335 Apr 01 12:59	0°♈
	5332 Oct 04 11:49	0°♞	morning set	5335 Apr 10 15:44	11°♈25'30
evening max el	5332 Oct 11 06:54	6°♞39'45 45°56'21		5335 Apr 25 11:45	0°♉
	5332 Nov 08 22:14	0°♟		5335 May 19 12:30	0°♊
greatest brilliancy	5332 Nov 20 00:14	5°♟18'18 -4.8m			
retrograde	5332 Nov 29 09:26	6°♟55'18	superior conj	5335 May 20 08:51	1°♉03'20 -1°02'24
evening set	5332 Dec 14 09:25	2°♟32'48	minimum elong	5335 May 20 19:42	1°♉37'06 1°02'02
	5332 Dec 18 18:35	30°♞♄	max. Earth dist.	5335 May 24 06:54	5°♉55'57 1.72223 AU

	5335 Jun 12 16:19	0°☿			5338 Jan 05 13:07	0°♊		
asc. node	5335 Jun 18 04:32	6°☿48'54			5338 Jan 31 18:49	0°♊		
evening rise	5335 Jun 28 02:07	19°☿02'31			5338 Feb 25 20:29	0°♊		
	5335 Jul 06 23:33	0°♊			5338 Mar 22 09:29	0°♊		
	5335 Jul 31 10:19	0°♊		desc. node	5338 Mar 24 14:51	2°♊44'14		
	5335 Aug 25 01:23	0°♊			5338 Apr 15 16:35	0°♊		
	5335 Sep 18 22:29	0°♊			5338 May 09 21:32	0°♊		
desc. node	5335 Oct 07 19:42	22°♊29'33			5338 Jun 03 02:48	0°♊		
	5335 Oct 14 04:23	0°♊		morning set	5338 Jun 22 09:30	23°♊49'31		
	5335 Nov 08 23:32	0°♊			5338 Jun 27 09:33	0°☿		
	5335 Dec 05 19:04	0°♊		asc. node	5338 Jul 15 16:14	22°☿31'55		
evening max el	5335 Dec 24 04:11	19°♊12'50 46°52'11			5338 Jul 21 17:44	0°♊		
	5336 Jan 04 10:54	0°♊						
asc. node	5336 Jan 28 21:15	17°♊59'35		superior conj	5338 Jul 29 21:01	10°♊01'15 0°33'12		
greatest brilliancy	5336 Feb 02 13:42	20°♊01'16 -4.9m		minimum elong	5338 Jul 29 14:26	9°♊40'59 0°32'54		
retrograde	5336 Feb 12 13:58	21°♊54'54		max. Earth dist.	5338 Jul 30 11:09	10°♊44'43 1.73360 AU		
evening set	5336 Feb 28 18:00	16°♊48'04			5338 Aug 15 02:38	0°♊		
min. Earth dist.	5336 Mar 03 15:19	14°♊27'47 0.26854 AU		evening rise	5338 Sep 04 03:01	24°♊37'33		
inferior conj	5336 Mar 04 04:32	14°♊07'27 7°43'07			5338 Sep 08 11:56	0°♊		
minimum elong	5336 Mar 03 18:33	14°♊22'49 7°41'24			5338 Oct 02 22:09	0°♊		
morning rise	5336 Mar 07 19:17	11°♊55'59			5338 Oct 27 10:15	0°♊		
direct	5336 Mar 24 16:54	6°♊25'09		desc. node	5338 Nov 04 07:40	9°♊38'05		
greatest brilliancy	5336 Apr 03 00:40	8°♊03'46 -4.9m			5338 Nov 21 00:58	0°♊		
	5336 May 04 18:57	0°♊			5338 Dec 15 19:05	0°♊		
morning max el	5336 May 13 19:02	8°♊38'36 46°38'38			5339 Jan 09 19:23	0°♊		
desc. node	5336 May 19 12:40	14°♊26'23			5339 Feb 04 10:35	0°♊		
	5336 Jun 03 04:55	0°♊		asc. node	5339 Feb 25 08:57	23°♊16'23		
	5336 Jun 29 22:17	0°♊			5339 Mar 03 18:26	0°♊		
	5336 Jul 25 17:01	0°☿		evening max el	5339 Mar 06 16:10	2°♊58'31 47°03'52		
	5336 Aug 20 00:09	0°♊			5339 Apr 07 13:33	0°♊		
asc. node	5336 Sep 09 13:58	24°♊43'06		greatest brilliancy	5339 Apr 16 02:18	4°♊11'33 -4.9m		
	5336 Sep 13 22:45	0°♊		retrograde	5339 Apr 26 08:58	6°♊11'50		
	5336 Oct 08 13:48	0°♊		evening set	5339 May 13 02:58	0°♊43'49		
	5336 Nov 01 22:31	0°♊			5339 May 14 08:21	30°♊		
morning set	5336 Nov 08 23:59	8°♊44'37		inferior conj	5339 May 17 09:04	28°♊07'54 6°44'39		
	5336 Nov 26 02:41	0°♊		minimum elong	5339 May 17 19:33	27°♊51'35 6°42'28		
max. Earth dist.	5336 Dec 14 01:57	22°♊24'08 1.71921 AU		min. Earth dist.	5339 May 17 06:54	28°♊11'16 0.27768 AU		
				morning rise	5339 May 22 12:23	25°♊01'49		
superior conj	5336 Dec 16 23:24	26°♊00'55 0°31'15		direct	5339 Jun 07 06:26	20°♊10'54		
minimum elong	5336 Dec 17 06:28	26°♊23'00 0°30'56		greatest brilliancy	5339 Jun 17 00:39	21°♊56'16 -4.8m		
	5336 Dec 20 03:58	0°♊		desc. node	5339 Jun 17 00:20	21°♊55'59		
desc. node	5336 Dec 30 05:21	12°♊34'22			5339 Jul 02 01:57	0°♊		
	5337 Jan 13 03:23	0°♊		morning max el	5339 Jul 26 10:35	20°♊40'09 45°54'14		
evening rise	5337 Jan 25 22:43	16°♊02'59			5339 Aug 04 20:36	0°☿		
	5337 Feb 06 01:39	0°♊			5339 Sep 01 21:02	0°♊		
	5337 Mar 01 24:00	0°♊			5339 Sep 28 04:21	0°♊		
	5337 Mar 26 00:41	0°♊		asc. node	5339 Oct 08 01:59	11°♊36'10		
	5337 Apr 19 07:01	0°♊			5339 Oct 23 13:20	0°♊		
asc. node	5337 Apr 22 06:47	3°♊40'00			5339 Nov 17 07:33	0°♊		
	5337 May 13 23:14	0°☿			5339 Dec 11 16:01	0°♊		
	5337 Jun 08 07:31	0°♊			5340 Jan 04 18:30	0°♊		
	5337 Jul 04 20:49	0°♊		morning set	5340 Jan 21 07:25	20°♊41'44		
evening max el	5337 Jul 29 02:47	25°♊03'59 45°33'44		desc. node	5340 Jan 27 17:04	28°♊43'30		
	5337 Aug 03 08:26	0°♊			5340 Jan 28 17:27	0°♊		
desc. node	5337 Aug 11 22:03	7°♊31'58			5340 Feb 21 14:23	0°♊		
greatest brilliancy	5337 Sep 05 20:36	23°♊09'25 -4.7m						
retrograde	5337 Sep 15 20:26	24°♊57'59		superior conj	5340 Mar 02 11:22	12°♊25'25 -1°11'45		
evening set	5337 Oct 04 00:07	18°♊50'34		minimum elong	5340 Mar 01 23:59	11°♊49'38 1°11'25		
inferior conj	5337 Oct 07 07:57	16°♊47'17 -8°37'20		max. Earth dist.	5340 Mar 02 21:22	12°♊56'54 1.71146 AU		
minimum elong	5337 Oct 07 07:32	16°♊47'57 8°37'19			5340 Mar 16 10:40	0°♊		
min. Earth dist.	5337 Oct 07 17:43	16°♊32'00 0.28981 AU			5340 Apr 09 08:06	0°♊		
morning rise	5337 Oct 10 14:48	14°♊44'59		evening rise	5340 Apr 12 07:07	3°♊42'19		
direct	5337 Oct 28 20:24	8°♊29'18			5340 May 03 08:44	0°♊		
greatest brilliancy	5337 Nov 08 18:13	10°♊38'49 -4.8m		asc. node	5340 May 19 18:41	20°♊21'06		
asc. node	5337 Dec 02 23:33	26°♊26'39			5340 May 27 14:25	0°☿		
	5337 Dec 07 00:42	0°♊			5340 Jun 21 02:45	0°♊		
morning max el	5337 Dec 17 16:16	10°♊07'29 46°21'46			5340 Jul 16 00:04	0°♊		

	5340 Aug 10 10:56	0°♄		5343 Jan 18 21:31	0°♁
	5340 Sep 05 21:10	0°♌		5343 Feb 12 01:30	0°♊
desc. node	5340 Sep 08 09:50	2°♌47'00	desc. node	5343 Feb 24 04:57	15°♊09'38
	5340 Oct 04 08:41	0°♊		5343 Mar 08 01:30	0°♋
evening max el	5340 Oct 08 21:59	4°♊25'55 45°54'42		5343 Mar 31 23:50	0°♌
	5340 Nov 10 14:25	0°♁	morning set	5343 Apr 08 02:57	8°♌56'27
greatest brilliancy	5340 Nov 17 13:32	2°♁58'20 -4.8m		5343 Apr 24 22:28	0°♍
retrograde	5340 Nov 26 22:45	4°♁34'42			
evening set	5340 Dec 12 01:10	0°♁09'11	superior conj	5343 May 17 22:31	28°♍43'26 -1°04'54
	5340 Dec 12 07:51	30°♋♊	minimum elong	5343 May 18 09:22	29°♍17'12 1°04'33
inferior conj	5340 Dec 17 17:32	26°♊47'53 -3°10'31		5343 May 18 23:07	0°♎
minimum elong	5340 Dec 18 00:23	26°♊37'22 3°08'27	max. Earth dist.	5343 May 21 22:26	3°♎41'58 1.72167 AU
min. Earth dist.	5340 Dec 18 11:19	26°♊20'36 0.27279 AU		5343 Jun 12 02:53	0°♏
morning rise	5340 Dec 23 23:00	23°♊07'59	asc. node	5343 Jun 17 06:26	6°♏22'10
asc. node	5340 Dec 30 11:21	20°♊14'49	evening rise	5343 Jun 25 18:11	16°♏51'21
direct	5341 Jan 07 15:24	18°♊52'49		5343 Jul 06 10:09	0°♐
greatest brilliancy	5341 Jan 18 12:54	21°♊07'17 -4.9m		5343 Jul 30 21:06	0°♑
	5341 Feb 02 17:23	0°♁		5343 Aug 24 12:31	0°♒
morning max el	5341 Feb 27 07:37	22°♁07'02 46°57'50		5343 Sep 18 10:12	0°♓
	5341 Mar 06 22:07	0°♊	desc. node	5343 Oct 06 21:45	21°♓59'02
	5341 Apr 02 21:43	0°♋		5343 Oct 13 17:04	0°♌
desc. node	5341 Apr 21 02:55	21°♋17'22		5343 Nov 08 13:57	0°♍
	5341 Apr 28 11:01	0°♌		5343 Dec 05 13:07	0°♎
	5341 May 23 10:34	0°♍	evening max el	5343 Dec 21 16:40	16°♎46'52 46°50'33
	5341 Jun 17 04:29	0°♎		5344 Jan 04 17:01	0°♏
	5341 Jul 11 20:09	0°♏	asc. node	5344 Jan 27 23:14	16°♏16'47
	5341 Aug 05 10:16	0°♐	greatest brilliancy	5344 Jan 31 03:18	17°♏34'50 -4.9m
asc. node	5341 Aug 12 04:08	8°♐14'47	retrograde	5344 Feb 10 02:07	19°♏27'33
	5341 Aug 29 22:12	0°♑	evening set	5344 Feb 26 02:20	14°♏27'10
morning set	5341 Aug 30 02:56	0°♑14'32	min. Earth dist.	5344 Mar 01 04:36	12°♏00'05 0.26829 AU
	5341 Sep 23 07:28	0°♒	inferior conj	5344 Mar 01 17:08	11°♏40'48 7°29'46
max. Earth dist.	5341 Oct 03 13:59	12°♒40'23 1.73154 AU	minimum elong	5344 Mar 01 06:47	11°♏56'43 7°27'52
			morning rise	5344 Mar 05 11:20	9°♏24'18
superior conj	5341 Oct 05 13:52	15°♒08'13 1°25'22	direct	5344 Mar 22 04:42	3°♏58'27
minimum elong	5341 Oct 05 13:07	15°♒05'53 1°25'22	greatest brilliancy	5344 Mar 31 14:35	5°♏38'36 -4.9m
	5341 Oct 17 14:25	0°♓		5344 May 04 21:42	0°♌
	5341 Nov 10 19:59	0°♌	morning max el	5344 May 11 07:32	6°♌13'22 46°40'16
evening rise	5341 Nov 11 13:36	0°♌54'36	desc. node	5344 May 18 14:35	13°♌38'05
desc. node	5341 Dec 01 19:29	26°♌00'08		5344 Jun 02 22:05	0°♍
	5341 Dec 05 00:52	0°♁		5344 Jun 29 12:17	0°♎
	5341 Dec 29 05:24	0°♊		5344 Jul 25 05:28	0°♏
	5342 Jan 22 10:10	0°♋		5344 Aug 19 11:44	0°♐
	5342 Feb 15 17:22	0°♌	asc. node	5344 Sep 08 16:04	24°♐15'46
	5342 Mar 12 07:46	0°♍		5344 Sep 13 09:51	0°♑
asc. node	5342 Mar 24 20:55	15°♍02'21		5344 Oct 08 00:38	0°♒
	5342 Apr 06 14:15	0°♎		5344 Nov 01 09:14	0°♓
	5342 May 03 07:34	0°♏	morning set	5344 Nov 06 16:09	6°♓32'49
evening max el	5342 May 17 07:24	14°♏28'07 46°13'38		5344 Nov 25 13:23	0°♌
	5342 Jun 03 07:28	0°♐	max. Earth dist.	5344 Dec 11 16:50	20°♌07'16 1.71967 AU
greatest brilliancy	5342 Jun 24 17:37	13°♐34'06 -4.8m			
retrograde	5342 Jul 05 20:51	15°♐49'14	superior conj	5344 Dec 14 12:57	23°♌39'51 0°34'38
desc. node	5342 Jul 14 12:12	14°♐19'27	minimum elong	5344 Dec 14 20:37	24°♌03'46 0°34'17
evening set	5342 Jul 20 23:13	11°♐22'42		5344 Dec 19 14:42	0°♍
inferior conj	5342 Jul 27 06:52	7°♐34'10 -3°00'39	desc. node	5344 Dec 29 07:17	12°♍06'44
minimum elong	5342 Jul 27 00:32	7°♐44'08 2°58'53		5345 Jan 12 14:13	0°♎
min. Earth dist.	5342 Jul 26 19:20	7°♐52'16 0.28731 AU	evening rise	5345 Jan 23 10:22	13°♎34'59
morning rise	5342 Aug 02 02:21	4°♐03'49		5345 Feb 05 12:37	0°♏
	5342 Aug 12 04:34	30°♋♏		5345 Mar 01 11:07	0°♌
direct	5342 Aug 17 18:12	29°♏23'28		5345 Mar 25 12:00	0°♍
	5342 Aug 23 11:24	0°♐		5345 Apr 18 18:42	0°♎
greatest brilliancy	5342 Aug 27 15:55	1°♐09'43 -4.7m	asc. node	5345 Apr 21 08:47	3°♎10'12
morning max el	5342 Oct 05 10:47	29°♐06'19 45°44'07		5345 May 13 11:32	0°♏
	5342 Oct 06 09:08	0°♑		5345 Jun 07 20:59	0°♐
	5342 Nov 04 02:34	0°♒		5345 Jul 04 12:58	0°♑
asc. node	5342 Nov 04 13:53	0°♒31'19	evening max el	5345 Jul 26 17:54	22°♑52'03 45°34'15
	5342 Nov 30 07:50	0°♓		5345 Aug 03 09:27	0°♒
	5342 Dec 25 09:51	0°♌	desc. node	5345 Aug 11 00:07	6°♒32'40

greatest brilliancy	5345 Sep 03 10:08	20° Ω 57'41	-4.7m	superior conj	5348 Feb 28 21:29	9° Υ 51'24	-1°09'23
retrograde	5345 Sep 13 12:31	22° Ω 48'31		minimum elong	5348 Feb 28 09:48	9° Υ 14'41	1°09'02
evening set	5345 Oct 01 14:47	16° Ω 42'02		max. Earth dist.	5348 Feb 29 04:54	10° Υ 14'45	1.71142 AU
inferior conj	5345 Oct 04 23:56	14° Ω 36'53	-8°36'12		5348 Mar 15 21:43	0° Υ	
minimum elong	5345 Oct 04 22:44	14° Ω 38'45	8°36'11		5348 Apr 08 19:11	0° Υ	
min. Earth dist.	5345 Oct 05 08:24	14° Ω 23'38	0.29016 AU	evening rise	5348 Apr 09 17:45	1° Υ 10'42	
morning rise	5345 Oct 08 06:34	12° Ω 35'05			5348 May 02 19:52	0° Π	
direct	5345 Oct 26 12:41	6° Ω 18'26		asc. node	5348 May 18 20:36	19° Π 52'25	
greatest brilliancy	5345 Nov 06 09:52	8° Ω 27'35	-4.8m		5348 May 27 01:41	0° Υ	
asc. node	5345 Dec 02 01:31	25° Ω 27'13			5348 Jun 20 14:19	0° Ω	
	5345 Dec 07 02:58	0° Π			5348 Jul 15 12:14	0° Π	
morning max el	5345 Dec 15 08:24	7° Π 54'08	46°20'08		5348 Aug 10 00:14	0° Ω	
	5346 Jan 05 05:57	0° Υ			5348 Sep 05 12:48	0° Π	
	5346 Jan 31 08:52	0° Υ		desc. node	5348 Sep 07 11:56	2° Π 09'09	
	5346 Feb 25 09:15	0° \approx			5348 Oct 04 06:36	0° Υ	
	5346 Mar 21 21:31	0° Υ		evening max el	5348 Oct 06 12:37	2° Υ 10'20	45°53'03
desc. node	5346 Mar 23 16:59	2° Υ 13'54			5348 Nov 13 07:49	0° Υ	
	5346 Apr 15 04:08	0° Υ		greatest brilliancy	5348 Nov 15 03:18	0° Υ 38'30	-4.8m
	5346 May 09 08:45	0° Υ		retrograde	5348 Nov 24 11:26	2° Υ 13'45	
	5346 Jun 02 13:47	0° Π			5348 Dec 05 02:01	30° Υ	
morning set	5346 Jun 20 01:22	21° Π 36'47		evening set	5348 Dec 09 17:05	27° Υ 45'01	
	5346 Jun 26 20:22	0° Υ		inferior conj	5348 Dec 15 07:09	24° Υ 26'32	-3°31'34
asc. node	5346 Jul 14 18:17	22° Υ 05'15		minimum elong	5348 Dec 15 14:38	24° Υ 15'01	3°29'22
	5346 Jul 21 04:25	0° Ω		min. Earth dist.	5348 Dec 16 01:51	23° Υ 57'47	0.27338 AU
				morning rise	5348 Dec 21 11:33	20° Υ 47'29	
superior conj	5346 Jul 27 14:19	7° Ω 53'53	0°30'10	asc. node	5348 Dec 29 13:23	17° Υ 25'18	
minimum elong	5346 Jul 27 08:13	7° Ω 35'08	0°29'52	direct	5349 Jan 05 05:45	16° Υ 30'36	
max. Earth dist.	5346 Jul 28 07:54	8° Ω 48'02	1.73341 AU	greatest brilliancy	5349 Jan 16 03:54	18° Υ 45'17	-4.9m
	5346 Aug 14 13:16	0° Π			5349 Feb 03 09:57	0° Υ	
evening rise	5346 Sep 01 21:27	22° Π 33'49		morning max el	5349 Feb 24 21:08	19° Υ 42'16	46°57'11
	5346 Sep 07 22:38	0° Ω			5349 Mar 06 18:01	0° \approx	
	5346 Oct 02 09:05	0° Π			5349 Apr 02 13:13	0° Υ	
	5346 Oct 26 21:34	0° Υ		desc. node	5349 Apr 20 04:49	20° Υ 41'20	
desc. node	5346 Nov 03 09:37	9° Υ 09'06			5349 Apr 28 00:38	0° Υ	
	5346 Nov 20 12:49	0° Υ			5349 May 22 23:07	0° Υ	
	5346 Dec 15 07:43	0° \approx			5349 Jun 16 16:20	0° Π	
	5347 Jan 09 09:11	0° Υ			5349 Jul 11 07:32	0° Υ	
	5347 Feb 04 02:34	0° Υ			5349 Aug 04 21:20	0° Ω	
asc. node	5347 Feb 24 11:06	22° Υ 29'48		asc. node	5349 Aug 11 06:12	7° Ω 47'23	
	5347 Mar 03 16:02	0° Υ		morning set	5349 Aug 27 20:28	28° Ω 07'38	
evening max el	5347 Mar 04 07:13	0° Υ 38'33	47°04'54		5349 Aug 29 09:06	0° Π	
	5347 Apr 09 10:38	0° Π			5349 Sep 22 18:18	0° Ω	
greatest brilliancy	5347 Apr 13 16:51	1° Π 51'05	-4.9m	max. Earth dist.	5349 Oct 01 06:46	10° Ω 30'38	1.73180 AU
retrograde	5347 Apr 24 00:14	3° Π 51'41					
	5347 May 07 20:24	30° Υ		superior conj	5349 Oct 03 07:41	13° Ω 01'37	1°25'10
evening set	5347 May 10 20:32	28° Υ 18'56		minimum elong	5349 Oct 03 06:14	12° Ω 57'08	1°25'11
inferior conj	5347 May 14 23:16	25° Υ 47'57	6°59'23		5349 Oct 17 01:17	0° Π	
minimum elong	5347 May 15 09:40	25° Υ 31'47	6°57'20	evening rise	5349 Nov 09 05:26	28° Π 40'56	
min. Earth dist.	5347 May 14 20:35	25° Υ 52'07	0.27739 AU		5349 Nov 10 06:58	0° Υ	
morning rise	5347 May 19 23:05	22° Υ 47'09		desc. node	5349 Nov 30 21:27	25° Υ 31'44	
direct	5347 Jun 04 20:41	17° Υ 51'30			5349 Dec 04 12:03	0° Υ	
greatest brilliancy	5347 Jun 14 13:20	19° Υ 36'02	-4.8m		5349 Dec 28 16:51	0° \approx	
desc. node	5347 Jun 16 02:20	20° Υ 09'58			5350 Jan 21 22:01	0° Υ	
	5347 Jul 02 20:42	0° Π			5350 Feb 15 05:44	0° Υ	
morning max el	5347 Jul 24 02:20	18° Π 27'22	45°55'25		5350 Mar 11 20:58	0° Υ	
	5347 Aug 04 16:06	0° Υ		asc. node	5350 Mar 23 22:50	14° Υ 27'03	
	5347 Sep 01 11:51	0° Ω			5350 Apr 06 04:58	0° Π	
	5347 Sep 27 17:13	0° Π			5350 May 03 01:57	0° Υ	
asc. node	5347 Oct 07 03:59	11° Π 05'26		evening max el	5350 May 14 22:09	12° Υ 11'02	46°15'37
	5347 Oct 23 01:13	0° Ω			5350 Jun 03 17:40	0° Ω	
	5347 Nov 16 18:56	0° Π		greatest brilliancy	5350 Jun 22 10:52	11° Ω 23'30	-4.8m
	5347 Dec 11 03:11	0° Υ		retrograde	5350 Jul 03 12:35	13° Ω 37'43	
	5348 Jan 04 05:36	0° Υ		desc. node	5350 Jul 13 14:16	11° Ω 36'23	
morning set	5348 Jan 18 19:00	18° Υ 13'02		evening set	5350 Jul 18 14:37	9° Ω 12'28	
desc. node	5348 Jan 26 19:09	28° Υ 15'17		inferior conj	5350 Jul 24 22:57	5° Ω 23'11	-2°41'37
	5348 Jan 28 04:32	0° \approx		minimum elong	5350 Jul 24 17:12	5° Ω 32'13	2°39'59
	5348 Feb 21 01:26	0° Υ		min. Earth dist.	5350 Jul 24 11:58	5° Ω 40'26	0.28695 AU

morning rise	5350 Jul 30 20:14	1°Ω50'02		5353 Feb 04 23:50	0°✠	
	5350 Aug 03 10:45	30°℞☿		5353 Feb 28 22:27	0°Υ	
direct	5350 Aug 15 09:27	27°☿12'58		5353 Mar 24 23:32	0°♄	
greatest brilliancy	5350 Aug 25 07:46	28°☿59'15 -4.7m		5353 Apr 18 06:34	0°♂	
	5350 Aug 27 23:32	0°Ω	asc. node	5353 Apr 20 10:44	2°♂39'41	
morning max el	5350 Oct 03 01:10	26°Ω51'59 45°43'37		5353 May 13 00:04	0°☿	
	5350 Oct 06 06:50	0°♍		5353 Jun 07 10:48	0°Ω	
asc. node	5350 Nov 03 15:46	29°♍53'32		5353 Jul 04 05:42	0°♍	
	5350 Nov 03 18:06	0°♊	evening max el	5353 Jul 24 10:00	20°♍41'42 45°34'49	
	5350 Nov 29 21:11	0°♌		5353 Aug 03 12:16	0°♊	
	5350 Dec 24 22:11	0°♈	desc. node	5353 Aug 10 02:11	5°♊31'03	
	5351 Jan 18 09:19	0°♄	greatest brilliancy	5353 Aug 31 23:43	18°♊45'27 -4.7m	
	5351 Feb 11 13:00	0°♊	retrograde	5353 Sep 11 04:53	20°♊38'26	
desc. node	5351 Feb 23 07:03	14°♊40'32	evening set	5353 Sep 29 05:15	14°♊33'37	
	5351 Mar 07 12:49	0°✠	inferior conj	5353 Oct 02 15:59	12°♊26'02 -8°34'23	
	5351 Mar 31 11:02	0°Υ	minimum elong	5353 Oct 02 14:01	12°♊29'07 8°34'20	
morning set	5351 Apr 05 13:57	6°Υ25'25	min. Earth dist.	5353 Oct 02 22:52	12°♊15'17 0.29044 AU	
	5351 Apr 24 09:35	0°♄	morning rise	5353 Oct 05 22:41	10°♊24'15	
			direct	5353 Oct 24 05:23	4°♊07'28	
superior conj	5351 May 15 11:50	26°♄21'00 -1°07'19	greatest brilliancy	5353 Nov 04 00:53	6°♊15'23 -4.8m	
minimum elong	5351 May 15 22:37	26°♄54'35 1°07'00	asc. node	5353 Dec 01 03:36	24°♊29'02	
	5351 May 18 10:09	0°♂		5353 Dec 07 04:01	0°♌	
max. Earth dist.	5351 May 19 10:26	1°♂15'38 1.72113 AU	morning max el	5353 Dec 13 00:47	5°♌41'17 46°18'24	
	5351 Jun 11 13:52	0°☿		5354 Jan 04 22:35	0°♈	
asc. node	5351 Jun 16 08:29	5°☿54'31		5354 Jan 30 22:54	0°♄	
evening rise	5351 Jun 23 09:45	14°☿37'19		5354 Feb 24 22:04	0°♊	
	5351 Jul 05 21:11	0°Ω		5354 Mar 21 09:38	0°✠	
	5351 Jul 30 08:17	0°♍	desc. node	5354 Mar 22 18:51	1°✠42'22	
	5351 Aug 24 00:02	0°♊		5354 Apr 14 15:45	0°Υ	
	5351 Sep 17 22:19	0°♌		5354 May 08 20:02	0°♄	
desc. node	5351 Oct 05 23:41	21°♌26'55		5354 Jun 02 00:48	0°♂	
	5351 Oct 13 06:13	0°♈	morning set	5354 Jun 17 17:23	19°♂24'21	
	5351 Nov 08 04:55	0°♄		5354 Jun 26 07:13	0°☿	
	5351 Dec 05 08:00	0°♊	asc. node	5354 Jul 13 20:21	21°☿38'28	
evening max el	5351 Dec 19 05:26	14°♊20'57 46°48'58		5354 Jul 20 15:11	0°Ω	
	5352 Jan 05 01:56	0°✠				
asc. node	5352 Jan 27 01:20	14°✠29'27	superior conj	5354 Jul 25 07:34	5°Ω46'06 0°27'05	
greatest brilliancy	5352 Jan 28 16:26	15°✠07'20 -4.9m	minimum elong	5354 Jul 25 02:00	5°Ω29'00 0°26'48	
retrograde	5352 Feb 07 14:45	17°✠00'01	max. Earth dist.	5354 Jul 26 06:03	6°Ω55'22 1.73324 AU	
evening set	5352 Feb 23 10:51	12°✠05'28		5354 Aug 14 00:01	0°♍	
min. Earth dist.	5352 Feb 27 17:44	9°✠32'12 0.26807 AU	evening rise	5354 Aug 30 15:48	20°♍29'30	
inferior conj	5352 Feb 28 05:49	9°✠13'40 7°15'35		5354 Sep 07 09:28	0°♊	
minimum elong	5352 Feb 27 19:09	9°✠30'01 7°13'30		5354 Oct 01 20:07	0°♌	
morning rise	5352 Mar 03 03:32	6°✠52'16		5354 Oct 26 08:58	0°♈	
direct	5352 Mar 19 16:52	1°✠31'12	desc. node	5354 Nov 02 11:35	8°♈40'00	
greatest brilliancy	5352 Mar 29 04:20	3°✠12'52 -4.9m		5354 Nov 20 00:46	0°♄	
	5352 May 04 23:19	0°Υ		5354 Dec 14 20:26	0°♊	
morning max el	5352 May 08 21:02	3°Υ49'51 46°41'44		5355 Jan 08 23:09	0°✠	
desc. node	5352 May 17 16:37	12°Υ50'01		5355 Feb 03 18:53	0°Υ	
	5352 Jun 02 15:13	0°♄	asc. node	5355 Feb 23 13:03	21°Υ41'47	
	5352 Jun 29 02:30	0°♂	evening max el	5355 Mar 01 22:51	28°Υ19'53 47°05'43	
	5352 Jul 24 18:13	0°☿		5355 Mar 03 14:33	0°♄	
	5352 Aug 18 23:39	0°Ω	greatest brilliancy	5355 Apr 11 07:46	29°♄31'00 -4.9m	
asc. node	5352 Sep 07 18:03	23°Ω47'03		5355 Apr 12 16:55	0°♂	
	5352 Sep 12 21:14	0°♍	retrograde	5355 Apr 21 15:19	1°♂31'18	
	5352 Oct 07 11:42	0°♊		5355 Apr 30 05:06	30°℞♄	
	5352 Oct 31 20:10	0°♌	evening set	5355 May 08 14:09	25°♄54'14	
morning set	5352 Nov 04 08:25	4°♌20'40	inferior conj	5355 May 12 13:29	23°♄28'05 7°13'28	
	5352 Nov 25 00:19	0°♈	minimum elong	5355 May 12 23:42	23°♄12'12 7°11'34	
max. Earth dist.	5352 Dec 09 08:30	17°♈52'08 1.72012 AU	min. Earth dist.	5355 May 12 10:17	23°♄33'05 0.27705 AU	
			morning rise	5355 May 17 09:34	20°♄32'40	
superior conj	5352 Dec 12 02:43	21°♈18'42 0°37'55	direct	5355 Jun 02 11:02	15°♄32'28	
minimum elong	5352 Dec 12 10:55	21°♈44'16 0°37'34	greatest brilliancy	5355 Jun 12 01:48	17°♄15'42 -4.8m	
	5352 Dec 19 01:42	0°♄	desc. node	5355 Jun 15 04:21	18°♄28'07	
desc. node	5352 Dec 28 09:23	11°♄38'48		5355 Jul 03 10:30	0°♂	
	5353 Jan 12 01:20	0°♊	morning max el	5355 Jul 21 17:23	16°♂13'08 45°56'34	
evening rise	5353 Jan 20 22:20	11°♊07'10		5355 Aug 04 10:54	0°☿	

	5355 Sep 01 02:22	0°♌			5358 May 02 20:29	0°♊	
	5355 Sep 27 05:56	0°♍		evening max el	5358 May 12 12:21	9°♊53'19	46°17'35
asc. node	5355 Oct 06 05:53	10°♍34'35			5358 Jun 04 06:58	0°♌	
	5355 Oct 22 13:01	0°♎		greatest brilliancy	5358 Jun 20 03:41	9°♌12'56	-4.8m
	5355 Nov 16 06:16	0°♏		retrograde	5358 Jul 01 04:24	11°♌26'56	
	5355 Dec 10 14:17	0°♐		desc. node	5358 Jul 12 16:18	8°♌49'31	
	5356 Jan 03 16:35	0°♑		evening set	5358 Jul 16 06:04	7°♌02'25	
morning set	5356 Jan 16 06:49	15°♑45'24		min. Earth dist.	5358 Jul 22 04:33	3°♌29'07	0.28659 AU
desc. node	5356 Jan 25 21:09	27°♑47'14		inferior conj	5358 Jul 22 14:56	3°♌12'49	-2°22'12
	5356 Jan 27 15:28	0°♒		minimum elong	5358 Jul 22 09:49	3°♌20'50	2°20'43
	5356 Feb 20 12:23	0°♓			5358 Jul 27 21:45	30°♒♊	
				morning rise	5358 Jul 28 13:57	29°♊37'12	
superior conj	5356 Feb 26 07:44	7°♓18'14	-1°06'53	direct	5358 Aug 13 00:27	25°♊02'56	
minimum elong	5356 Feb 25 19:53	6°♓40'56	1°06'29	greatest brilliancy	5358 Aug 22 23:55	26°♊49'58	-4.7m
max. Earth dist.	5356 Feb 26 10:21	7°♓26'28	1.71142 AU		5358 Aug 30 04:08	0°♌	
	5356 Mar 15 08:41	0°♍		morning max el	5358 Sep 30 15:56	24°♌39'42	45°43'17
evening rise	5356 Apr 07 04:23	28°♍39'11			5358 Oct 06 03:21	0°♍	
	5356 Apr 08 06:11	0°♎		asc. node	5358 Nov 02 17:54	29°♍17'51	
	5356 May 02 06:55	0°♏			5358 Nov 03 09:00	0°♎	
asc. node	5356 May 17 22:41	19°♏24'35			5358 Nov 29 10:05	0°♏	
	5356 May 26 12:51	0°♐			5358 Dec 24 10:09	0°♐	
	5356 Jun 20 01:46	0°♑			5359 Jan 17 20:49	0°♑	
	5356 Jul 15 00:16	0°♒			5359 Feb 11 00:14	0°♒	
	5356 Aug 09 13:26	0°♓		desc. node	5359 Feb 22 09:00	14°♒11'47	
	5356 Sep 05 04:30	0°♔			5359 Mar 06 23:52	0°♓	
desc. node	5356 Sep 06 13:48	1°♔30'48			5359 Mar 30 21:57	0°♔	
evening max el	5356 Oct 04 02:29	29°♔53'22	45°51'19	morning set	5359 Apr 03 00:33	3°♔54'02	
	5356 Oct 04 05:16	0°♕			5359 Apr 23 20:22	0°♕	
greatest brilliancy	5356 Nov 12 17:29	28°♕19'44	-4.8m				
retrograde	5356 Nov 21 23:55	29°♕53'46		superior conj	5359 May 13 00:50	23°♕58'34	-1°09'37
evening set	5356 Dec 07 09:11	25°♕21'27		minimum elong	5359 May 13 11:28	24°♕31'43	1°09'19
inferior conj	5356 Dec 12 20:54	22°♕06'07	-3°52'02	max. Earth dist.	5359 May 16 21:08	28°♕46'11	1.72062 AU
minimum elong	5356 Dec 13 04:57	21°♕53'43	3°49'44		5359 May 17 20:51	0°♏	
min. Earth dist.	5356 Dec 13 16:42	21°♕35'37	0.27399 AU		5359 Jun 11 00:33	0°♐	
morning rise	5356 Dec 18 23:59	18°♕28'17		asc. node	5359 Jun 15 10:32	5°♐27'50	
asc. node	5356 Dec 28 15:25	14°♕41'57		evening rise	5359 Jun 21 01:08	12°♐23'38	
direct	5357 Jan 02 19:45	14°♕09'11			5359 Jul 05 07:55	0°♌	
greatest brilliancy	5357 Jan 13 19:31	16°♕24'51	-4.9m		5359 Jul 29 19:12	0°♍	
	5357 Feb 03 22:01	0°♖			5359 Aug 23 11:15	0°♎	
morning max el	5357 Feb 22 10:02	17°♖16'38	46°56'32		5359 Sep 17 10:07	0°♏	
	5357 Mar 06 13:05	0°♗		desc. node	5359 Oct 05 01:44	20°♏56'09	
	5357 Apr 02 04:16	0°♘			5359 Oct 12 19:03	0°♐	
desc. node	5357 Apr 19 06:50	20°♘06'34			5359 Nov 07 19:42	0°♑	
	5357 Apr 27 13:54	0°♙			5359 Dec 05 03:02	0°♒	
	5357 May 22 11:24	0°♚		evening max el	5359 Dec 16 18:43	11°♒57'30	46°47'12
	5357 Jun 16 03:58	0°♛			5360 Jan 05 13:34	0°♓	
	5357 Jul 10 18:41	0°♜		greatest brilliancy	5360 Jan 26 04:43	12°♓39'11	-4.9m
	5357 Aug 04 08:08	0°♝		asc. node	5360 Jan 26 03:16	12°♓37'51	
asc. node	5357 Aug 10 08:09	7°♝20'29		retrograde	5360 Feb 05 03:37	14°♓32'25	
morning set	5357 Aug 25 14:09	26°♝01'59		evening set	5360 Feb 20 19:13	9°♓43'23	
	5357 Aug 28 19:42	0°♞		inferior conj	5360 Feb 25 18:12	6°♓46'18	7°00'21
	5357 Sep 22 04:51	0°♟		minimum elong	5360 Feb 25 07:21	7°♓02'55	6°58'06
max. Earth dist.	5357 Sep 29 00:40	8°♟25'15	1.73210 AU	min. Earth dist.	5360 Feb 25 06:23	7°♓04'23	0.26788 AU
				morning rise	5360 Feb 29 19:34	4°♓20'00	
superior conj	5357 Oct 01 01:41	10°♟56'29	1°24'51		5360 Mar 10 11:55	30°♓♒	
minimum elong	5357 Sep 30 23:33	10°♟49'55	1°24'51	direct	5360 Mar 17 05:22	29°♒03'48	
	5357 Oct 16 11:54	0°♠			5360 Mar 24 04:14	0°♓	
evening rise	5357 Nov 06 21:25	26°♠28'37		greatest brilliancy	5360 Mar 26 17:29	0°♓46'34	-4.9m
	5357 Nov 09 17:43	0°♑			5360 May 04 23:25	0°♔	
desc. node	5357 Nov 29 23:34	25°♑04'27		morning max el	5360 May 06 11:01	1°♔28'08	46°43'11
	5357 Dec 03 23:01	0°♒		desc. node	5360 May 16 18:44	12°♔03'39	
	5357 Dec 28 04:06	0°♓			5360 Jun 02 07:43	0°♕	
	5358 Jan 21 09:38	0°♔			5360 Jun 28 16:14	0°♏	
	5358 Feb 14 17:53	0°♙			5360 Jul 24 06:34	0°♐	
	5358 Mar 11 09:56	0°♚			5360 Aug 18 11:11	0°♑	
asc. node	5358 Mar 23 00:48	13°♚52'31		asc. node	5360 Sep 06 19:59	23°♑19'15	
	5358 Apr 05 19:34	0°♛			5360 Sep 12 08:16	0°♒	

	5360 Oct 06 22:27	0°♄		inferior conj	5363 May 10 03:39	21°♄08'18	7°26'56
	5360 Oct 31 06:47	0°♍		minimum elong	5363 May 10 13:37	20°♄52'47	7°25'09
morning set	5360 Nov 02 01:03	2°♍10'46		min. Earth dist.	5363 May 10 00:10	21°♄13'44	0.27676 AU
	5360 Nov 24 10:54	0°♊		morning rise	5363 May 14 19:50	18°♄18'18	
max. Earth dist.	5360 Dec 07 00:28	15°♊39'05	1.72056 AU	direct	5363 May 31 01:08	13°♄13'24	
				greatest brilliancy	5363 Jun 09 14:43	14°♄55'36	-4.8m
superior conj	5360 Dec 09 16:54	18°♊59'59	0°41'07	desc. node	5363 Jun 14 06:23	16°♄49'56	
minimum elong	5360 Dec 10 01:33	19°♊26'59	0°40'45		5363 Jul 03 20:45	0°♈	
	5360 Dec 18 12:22	0°♉		morning max el	5363 Jul 19 07:28	13°♈56'24	45°57'44
desc. node	5360 Dec 27 11:23	11°♉11'38			5363 Aug 04 05:11	0°♉	
	5361 Jan 11 12:07	0°♊			5363 Aug 31 16:39	0°♊	
evening rise	5361 Jan 18 10:29	8°♊40'57			5363 Sep 26 18:28	0°♋	
	5361 Feb 04 10:46	0°♋		asc. node	5363 Oct 05 08:01	10°♋04'51	
	5361 Feb 28 09:32	0°♌			5363 Oct 22 00:41	0°♌	
	5361 Mar 24 10:51	0°♍			5363 Nov 15 17:29	0°♍	
	5361 Apr 17 18:16	0°♎			5363 Dec 10 01:17	0°♊	
asc. node	5361 Apr 19 12:48	2°♎10'10			5364 Jan 03 03:29	0°♋	
	5361 May 12 12:26	0°♌		morning set	5364 Jan 13 18:57	13°♋19'05	
	5361 Jun 07 00:30	0°♍		desc. node	5364 Jan 24 23:06	27°♋19'24	
	5361 Jul 03 22:29	0°♎			5364 Jan 27 02:18	0°♌	
evening max el	5361 Jul 22 02:21	18°♎32'36	45°35'24		5364 Feb 19 23:11	0°♍	
	5361 Aug 03 16:28	0°♎					
desc. node	5361 Aug 09 04:06	4°♎28'18		superior conj	5364 Feb 23 18:28	4°♍47'01	-1°04'16
greatest brilliancy	5361 Aug 29 13:43	16°♎34'22	-4.7m	minimum elong	5364 Feb 23 06:29	4°♍09'22	1°03'51
retrograde	5361 Sep 08 20:59	18°♎28'47		max. Earth dist.	5364 Feb 23 13:46	4°♍32'17	1.71141 AU
evening set	5361 Sep 26 19:27	12°♎26'21			5364 Mar 14 19:30	0°♌	
inferior conj	5361 Sep 30 07:58	10°♎15'50	-8°31'57	evening rise	5364 Apr 04 15:18	26°♌09'01	
minimum elong	5361 Sep 30 05:15	10°♎20'06	8°31'50		5364 Apr 07 17:02	0°♍	
min. Earth dist.	5361 Sep 30 13:18	10°♎07'30	0.29066 AU		5364 May 01 17:51	0°♎	
morning rise	5361 Oct 03 14:59	8°♎13'31		asc. node	5364 May 17 00:41	18°♎56'43	
direct	5361 Oct 21 22:12	1°♎57'20			5364 May 25 23:57	0°♌	
greatest brilliancy	5361 Nov 01 15:24	4°♎03'21	-4.8m		5364 Jun 19 13:13	0°♍	
asc. node	5361 Nov 30 05:35	23°♎32'42			5364 Jul 14 12:22	0°♎	
	5361 Dec 07 03:31	0°♍			5364 Aug 09 02:47	0°♎	
morning max el	5361 Dec 10 16:30	3°♍27'52	46°16'49		5364 Sep 04 20:30	0°♍	
	5362 Jan 04 14:34	0°♊		desc. node	5364 Sep 05 15:55	0°♍52'38	
	5362 Jan 30 12:28	0°♋		evening max el	5364 Oct 01 15:17	27°♍33'52	45°49'43
	5362 Feb 24 10:31	0°♌			5364 Oct 04 04:59	0°♊	
	5362 Mar 20 21:27	0°♋		greatest brilliancy	5364 Nov 10 07:31	26°♊00'46	-4.8m
desc. node	5362 Mar 21 20:55	1°♋12'24		retrograde	5364 Nov 19 12:34	27°♊33'59	
	5362 Apr 14 03:09	0°♌		evening set	5364 Dec 05 01:20	22°♊57'28	
	5362 May 08 07:07	0°♍		inferior conj	5364 Dec 10 10:36	19°♊45'37	-4°12'08
	5362 Jun 01 11:40	0°♎		minimum elong	5364 Dec 10 19:10	19°♊32'26	4°09'44
morning set	5362 Jun 15 08:57	17°♎10'59		min. Earth dist.	5364 Dec 11 07:35	19°♊13'19	0.27462 AU
	5362 Jun 25 17:55	0°♌		morning rise	5364 Dec 16 12:12	16°♊09'28	
asc. node	5362 Jul 12 22:15	21°♌11'43		asc. node	5364 Dec 27 17:23	12°♊03'48	
	5362 Jul 20 01:45	0°♍		direct	5364 Dec 31 09:28	11°♊47'23	
				greatest brilliancy	5365 Jan 11 11:27	14°♊04'44	-4.9m
superior conj	5362 Jul 23 00:24	3°♍37'37	0°23'56		5365 Feb 04 07:02	0°♋	
minimum elong	5362 Jul 22 19:26	3°♍22'17	0°23'40	morning max el	5365 Feb 19 23:25	14°♋52'03	46°56'09
max. Earth dist.	5362 Jul 24 04:29	5°♍04'06	1.73301 AU		5365 Mar 06 07:40	0°♌	
	5362 Aug 13 10:33	0°♎			5365 Apr 01 19:05	0°♋	
evening rise	5362 Aug 28 09:57	18°♎25'06		desc. node	5365 Apr 18 08:57	19°♋32'28	
	5362 Sep 06 20:07	0°♎			5365 Apr 27 03:02	0°♌	
	5362 Oct 01 07:01	0°♍			5365 May 21 23:33	0°♍	
	5362 Oct 25 20:14	0°♊			5365 Jun 15 15:30	0°♎	
desc. node	5362 Nov 01 13:42	8°♊11'47			5365 Jul 10 05:49	0°♌	
	5362 Nov 19 12:34	0°♋			5365 Aug 03 19:00	0°♍	
	5362 Dec 14 09:00	0°♌		asc. node	5365 Aug 09 10:09	6°♍53'30	
	5363 Jan 08 12:58	0°♋		morning set	5365 Aug 23 07:38	23°♍55'26	
	5363 Feb 03 11:09	0°♌			5365 Aug 28 06:25	0°♎	
asc. node	5363 Feb 22 15:00	20°♌53'51			5365 Sep 21 15:30	0°♎	
evening max el	5363 Feb 27 13:43	25°♌59'54	47°06'17	max. Earth dist.	5365 Sep 26 19:38	6°♎22'48	1.73239 AU
	5363 Mar 03 13:42	0°♍					
greatest brilliancy	5363 Apr 08 23:01	27°♍11'36	-4.9m	superior conj	5365 Sep 28 19:30	8°♎50'28	1°24'25
retrograde	5363 Apr 19 05:43	29°♍10'53		minimum elong	5365 Sep 28 16:41	8°♎41'48	1°24'24
evening set	5363 May 06 07:43	23°♍29'37			5365 Oct 15 22:36	0°♍	

evening rise	5365 Nov 04 13:23	24° \mathbb{M} 16'00			5368 Mar 28 09:15	0° \mathbb{H}	
	5365 Nov 09 04:34	0° \mathbb{A}		morning max el	5368 May 04 01:18	29° \mathbb{H} 06'14	46°44'37
desc. node	5365 Nov 29 01:30	24° \mathbb{A} 36'13			5368 May 04 22:49	0° \mathbb{Y}	
	5365 Dec 03 10:07	0° \mathbb{B}		desc. node	5368 May 15 20:38	11° \mathbb{Y} 16'31	
	5365 Dec 27 15:31	0° \approx			5368 Jun 02 00:13	0° \mathbb{B}	
	5366 Jan 20 21:26	0° \mathbb{H}			5368 Jun 28 06:07	0° \mathbb{II}	
	5366 Feb 14 06:13	0° \mathbb{Y}			5368 Jul 23 19:06	0° \mathbb{B}	
	5366 Mar 10 23:06	0° \mathbb{B}			5368 Aug 17 22:55	0° \mathbb{Q}	
asc. node	5366 Mar 22 02:57	13° \mathbb{B} 18'08		asc. node	5368 Sep 05 22:06	22° \mathbb{Q} 51'21	
	5366 Apr 05 10:22	0° \mathbb{II}			5368 Sep 11 19:33	0° \mathbb{M}	
	5366 May 02 15:30	0° \mathbb{B}			5368 Oct 06 09:29	0° \mathbb{B}	
evening max el	5366 May 10 02:49	7° \mathbb{B} 36'22	46°19'42	morning set	5368 Oct 30 17:49	0° \mathbb{M} 00'20	
	5366 Jun 05 00:46	0° \mathbb{Q}			5368 Oct 30 17:42	0° \mathbb{M}	
greatest brilliancy	5366 Jun 17 19:58	7° \mathbb{Q} 01'57	-4.8m		5368 Nov 23 21:50	0° \mathbb{A}	
retrograde	5366 Jun 28 20:50	9° \mathbb{Q} 16'36		max. Earth dist.	5368 Dec 04 14:07	13° \mathbb{A} 17'51	1.72100 AU
desc. node	5366 Jul 11 18:14	5° \mathbb{Q} 59'18					
evening set	5366 Jul 13 21:51	4° \mathbb{Q} 52'14		superior conj	5368 Dec 07 07:09	16° \mathbb{A} 40'33	0°44'14
inferior conj	5366 Jul 20 07:05	1° \mathbb{Q} 02'32	-2°02'31	minimum elong	5368 Dec 07 16:12	17° \mathbb{A} 08'44	0°43'51
minimum elong	5366 Jul 20 02:38	1° \mathbb{Q} 09'30	2°01'14		5368 Dec 17 23:23	0° \mathbb{B}	
min. Earth dist.	5366 Jul 19 20:58	1° \mathbb{Q} 18'22	0.28627 AU	desc. node	5368 Dec 26 13:21	10° \mathbb{B} 43'17	
	5366 Jul 21 23:09	30° \mathbb{R} \mathbb{B}			5369 Jan 10 23:15	0° \approx	
morning rise	5366 Jul 26 07:46	27° \mathbb{B} 24'51		evening rise	5369 Jan 15 22:30	6° \approx 13'22	
direct	5366 Aug 10 15:50	22° \mathbb{B} 52'51			5369 Feb 03 22:01	0° \mathbb{H}	
greatest brilliancy	5366 Aug 20 16:08	24° \mathbb{B} 40'40	-4.7m		5369 Feb 27 20:58	0° \mathbb{Y}	
	5366 Aug 31 14:35	0° \mathbb{Q}			5369 Mar 23 22:33	0° \mathbb{B}	
morning max el	5366 Sep 28 07:49	22° \mathbb{Q} 29'35	45°42'54		5369 Apr 17 06:23	0° \mathbb{II}	
	5366 Oct 05 23:24	0° \mathbb{M}		asc. node	5369 Apr 18 14:47	1° \mathbb{II} 39'06	
asc. node	5366 Nov 01 19:53	28° \mathbb{M} 41'23			5369 May 12 01:15	0° \mathbb{B}	
	5366 Nov 02 23:56	0° \mathbb{B}			5369 Jun 06 14:41	0° \mathbb{Q}	
	5366 Nov 28 23:06	0° \mathbb{M}			5369 Jul 03 15:56	0° \mathbb{M}	
	5366 Dec 23 22:17	0° \mathbb{A}		evening max el	5369 Jul 19 18:42	16° \mathbb{M} 22'43	45°36'05
	5367 Jan 17 08:29	0° \mathbb{B}			5369 Aug 03 22:57	0° \mathbb{B}	
	5367 Feb 10 11:39	0° \approx		desc. node	5369 Aug 08 06:12	3° \mathbb{B} 23'50	
desc. node	5367 Feb 21 11:00	13° \approx 42'40		greatest brilliancy	5369 Aug 27 04:33	14° \mathbb{B} 24'02	-4.7m
	5367 Mar 06 11:07	0° \mathbb{H}		retrograde	5369 Sep 06 12:56	16° \mathbb{B} 19'12	
	5367 Mar 30 09:04	0° \mathbb{Y}		evening set	5369 Sep 24 09:41	10° \mathbb{B} 19'45	
morning set	5367 Mar 31 11:11	1° \mathbb{Y} 21'57		inferior conj	5369 Sep 28 00:15	8° \mathbb{B} 05'52	-8°28'44
	5367 Apr 23 07:21	0° \mathbb{B}		minimum elong	5369 Sep 27 20:49	8° \mathbb{B} 11'15	8°28'34
				min. Earth dist.	5369 Sep 28 04:13	7° \mathbb{B} 59'38	0.29086 AU
superior conj	5367 May 10 13:59	21° \mathbb{B} 35'52	-1°11'48	morning rise	5369 Oct 01 07:54	6° \mathbb{B} 02'24	
minimum elong	5367 May 11 00:24	22° \mathbb{B} 08'20	1°11'31		5369 Oct 16 09:19	30° \mathbb{R} \mathbb{M}	
max. Earth dist.	5367 May 14 08:23	26° \mathbb{B} 17'42	1.72007 AU	direct	5369 Oct 19 15:08	29° \mathbb{M} 47'30	
	5367 May 17 07:44	0° \mathbb{II}			5369 Oct 22 22:01	0° \mathbb{B}	
	5367 Jun 10 11:24	0° \mathbb{B}		greatest brilliancy	5369 Oct 30 06:16	1° \mathbb{B} 51'27	-4.8m
asc. node	5367 Jun 14 12:28	5° \mathbb{B} 00'15		asc. node	5369 Nov 29 07:33	22° \mathbb{B} 36'40	
evening rise	5367 Jun 18 16:50	10° \mathbb{B} 10'22			5369 Dec 07 02:23	0° \mathbb{M}	
	5367 Jul 04 18:50	0° \mathbb{Q}		morning max el	5369 Dec 08 07:30	1° \mathbb{M} 11'48	46°15'01
	5367 Jul 29 06:18	0° \mathbb{M}			5370 Jan 04 06:43	0° \mathbb{A}	
	5367 Aug 22 22:43	0° \mathbb{B}			5370 Jan 30 02:21	0° \mathbb{B}	
	5367 Sep 16 22:14	0° \mathbb{M}			5370 Feb 23 23:18	0° \approx	
desc. node	5367 Oct 04 03:48	20° \mathbb{M} 24'25			5370 Mar 20 09:34	0° \mathbb{H}	
	5367 Oct 12 08:18	0° \mathbb{A}		desc. node	5370 Mar 20 23:02	0° \mathbb{H} 41'33	
	5367 Nov 07 11:00	0° \mathbb{B}			5370 Apr 13 14:51	0° \mathbb{Y}	
	5367 Dec 04 22:58	0° \approx			5370 May 07 18:31	0° \mathbb{B}	
evening max el	5367 Dec 14 08:57	9° \approx 35'43	46°45'28		5370 May 31 22:51	0° \mathbb{II}	
	5368 Jan 06 05:34	0° \mathbb{H}		morning set	5370 Jun 13 00:29	14° \mathbb{II} 56'23	
greatest brilliancy	5368 Jan 23 16:42	10° \mathbb{H} 10'06	-4.9m		5370 Jun 25 04:56	0° \mathbb{B}	
asc. node	5368 Jan 25 05:16	10° \mathbb{H} 41'04		asc. node	5370 Jul 12 00:19	20° \mathbb{B} 44'26	
retrograde	5368 Feb 02 16:46	12° \mathbb{H} 04'02			5370 Jul 19 12:39	0° \mathbb{Q}	
evening set	5368 Feb 18 03:52	7° \mathbb{H} 20'27					
inferior conj	5368 Feb 23 06:36	4° \mathbb{H} 18'07	6°44'14	superior conj	5370 Jul 20 17:25	1° \mathbb{Q} 28'38	0°20'44
minimum elong	5368 Feb 22 19:40	4° \mathbb{H} 34'50	6°41'51	minimum elong	5370 Jul 20 13:03	1° \mathbb{Q} 15'10	0°20'31
min. Earth dist.	5368 Feb 22 18:51	4° \mathbb{H} 36'05	0.26770 AU	max. Earth dist.	5370 Jul 22 01:31	3° \mathbb{Q} 07'30	1.73272 AU
morning rise	5368 Feb 27 11:36	1° \mathbb{H} 46'53			5370 Aug 12 21:25	0° \mathbb{M}	
	5368 Mar 01 18:52	30° \mathbb{R} \approx		evening rise	5370 Aug 26 04:21	16° \mathbb{M} 20'36	
direct	5368 Mar 14 18:24	26° \approx 35'48			5370 Sep 06 07:03	0° \mathbb{B}	
greatest brilliancy	5368 Mar 24 06:13	28° \approx 18'51	-4.9m		5370 Sep 30 18:11	0° \mathbb{M}	

	5370 Oct 25 07:48	0°♊			5373 Jun 15 03:14	0°♊	
desc. node	5370 Oct 31 15:40	7°♊42'11			5373 Jul 09 17:06	0°♊	
	5370 Nov 19 00:42	0°♊			5373 Aug 03 06:00	0°♊	
	5370 Dec 13 21:59	0°♊		asc. node	5373 Aug 08 12:14	6°♊26'20	
	5371 Jan 08 03:20	0°♊		morning set	5373 Aug 21 00:59	21°♊48'01	
	5371 Feb 03 04:14	0°♊			5373 Aug 27 17:15	0°♊	
asc. node	5371 Feb 21 17:08	20°♊04'13			5373 Sep 21 02:18	0°♊	
evening max el	5371 Feb 25 03:33	23°♊35'45	47°06'49	max. Earth dist.	5373 Sep 24 16:01	4°♊24'20	1.73263 AU
	5371 Mar 03 14:32	0°♊					
greatest brilliancy	5371 Apr 06 14:40	24°♊51'06	-4.9m	superior conj	5373 Sep 26 13:22	6°♊44'14	1°23'51
retrograde	5371 Apr 16 19:38	26°♊48'56		minimum elong	5373 Sep 26 09:54	6°♊33'32	1°23'50
evening set	5371 May 04 01:08	21°♊03'32			5373 Oct 15 09:25	0°♊	
inferior conj	5371 May 07 17:44	18°♊47'06	7°39'34	evening rise	5373 Nov 02 05:40	22°♊04'15	
minimum elong	5371 May 08 03:22	18°♊32'05	7°37'57		5373 Nov 08 15:30	0°♊	
min. Earth dist.	5371 May 07 14:14	18°♊52'34	0.27644 AU	desc. node	5373 Nov 28 03:30	24°♊08'08	
morning rise	5371 May 12 05:51	16°♊02'41			5373 Dec 02 21:14	0°♊	
direct	5371 May 28 14:38	10°♊52'49			5373 Dec 27 02:55	0°♊	
greatest brilliancy	5371 Jun 07 04:02	12°♊34'35	-4.8m		5374 Jan 20 09:15	0°♊	
desc. node	5371 Jun 13 08:23	15°♊13'59			5374 Feb 13 18:36	0°♊	
	5371 Jul 04 04:43	0°♊			5374 Mar 10 12:26	0°♊	
morning max el	5371 Jul 16 20:47	11°♊36'33	45°59'04	asc. node	5374 Mar 21 04:51	12°♊42'26	
	5371 Aug 03 23:21	0°♊			5374 Apr 05 01:33	0°♊	
	5371 Aug 31 07:03	0°♊			5374 May 02 11:21	0°♊	
	5371 Sep 26 07:11	0°♊		evening max el	5374 May 07 17:53	5°♊20'05	46°21'45
asc. node	5371 Oct 04 09:59	9°♊34'00			5374 Jun 06 01:45	0°♊	
	5371 Oct 21 12:32	0°♊		greatest brilliancy	5374 Jun 15 11:45	4°♊49'05	-4.8m
	5371 Nov 15 04:54	0°♊		retrograde	5374 Jun 26 13:25	7°♊04'33	
	5371 Dec 09 12:29	0°♊		desc. node	5374 Jul 10 20:19	3°♊03'24	
	5372 Jan 02 14:36	0°♊		evening set	5374 Jul 11 13:28	2°♊40'17	
morning set	5372 Jan 11 07:12	10°♊52'20			5374 Jul 16 02:16	30°♊	
desc. node	5372 Jan 24 01:13	26°♊51'12		inferior conj	5374 Jul 17 22:50	28°♊50'35	-1°42'27
	5372 Jan 26 13:25	0°♊		minimum elong	5374 Jul 17 19:04	28°♊56'28	1°41'21
	5372 Feb 19 10:19	0°♊		min. Earth dist.	5374 Jul 17 12:46	29°♊06'18	0.28593 AU
max. Earth dist.	5372 Feb 20 15:21	1°♊31'20	1.71150 AU	morning rise	5374 Jul 24 01:06	25°♊11'10	
				direct	5374 Aug 08 07:14	20°♊41'17	
superior conj	5372 Feb 21 04:52	2°♊13'50	-1°01'29	greatest brilliancy	5374 Aug 18 07:22	22°♊29'23	-4.7m
minimum elong	5372 Feb 20 16:53	1°♊36'09	1°01'03		5374 Sep 01 15:26	0°♊	
	5372 Mar 14 06:39	0°♊		morning max el	5374 Sep 26 00:01	20°♊20'07	45°42'37
evening rise	5372 Apr 02 01:42	23°♊36'06			5374 Oct 05 18:56	0°♊	
	5372 Apr 07 04:13	0°♊		asc. node	5374 Oct 31 21:49	28°♊05'02	
	5372 May 01 05:06	0°♊			5374 Nov 02 14:40	0°♊	
asc. node	5372 May 16 02:37	18°♊27'39			5374 Nov 28 12:00	0°♊	
	5372 May 25 11:22	0°♊			5374 Dec 23 10:16	0°♊	
	5372 Jun 19 00:59	0°♊			5375 Jan 16 19:59	0°♊	
	5372 Jul 14 00:48	0°♊			5375 Feb 09 22:53	0°♊	
	5372 Aug 08 16:30	0°♊		desc. node	5375 Feb 20 13:06	13°♊14'22	
desc. node	5372 Sep 04 17:58	0°♊13'23			5375 Mar 05 22:12	0°♊	
	5372 Sep 04 13:00	0°♊		morning set	5375 Mar 28 21:55	28°♊50'40	
evening max el	5372 Sep 29 04:19	25°♊14'50	45°48'23		5375 Mar 29 20:01	0°♊	
	5372 Oct 04 05:59	0°♊			5375 Apr 22 18:14	0°♊	
greatest brilliancy	5372 Nov 07 21:19	23°♊42'12	-4.8m				
retrograde	5372 Nov 17 02:01	25°♊15'23		superior conj	5375 May 08 02:49	19°♊12'14	-1°13'51
evening set	5372 Dec 02 17:53	20°♊34'17		minimum elong	5375 May 08 12:55	19°♊43'46	1°13'37
inferior conj	5372 Dec 08 00:40	17°♊26'06	-4°31'24	max. Earth dist.	5375 May 11 20:38	23°♊52'29	1.71962 AU
minimum elong	5372 Dec 08 09:41	17°♊12'13	4°28'57		5375 May 16 18:33	0°♊	
min. Earth dist.	5372 Dec 08 22:27	16°♊52'34	0.27528 AU		5375 Jun 09 22:13	0°♊	
morning rise	5372 Dec 14 00:39	13°♊52'09		asc. node	5375 Jun 13 14:31	4°♊33'11	
asc. node	5372 Dec 26 19:24	9°♊32'23		evening rise	5375 Jun 16 07:57	7°♊55'23	
direct	5372 Dec 28 23:45	9°♊26'35			5375 Jul 04 05:43	0°♊	
greatest brilliancy	5373 Jan 09 03:28	11°♊45'34	-4.9m		5375 Jul 28 17:21	0°♊	
	5373 Feb 04 13:30	0°♊			5375 Aug 22 10:08	0°♊	
morning max el	5373 Feb 17 13:50	12°♊30'02	46°55'23		5375 Sep 16 10:19	0°♊	
	5373 Mar 06 01:55	0°♊		desc. node	5375 Oct 03 05:43	19°♊52'25	
	5373 Apr 01 09:56	0°♊			5375 Oct 11 21:32	0°♊	
desc. node	5373 Apr 17 10:51	18°♊57'12			5375 Nov 07 02:24	0°♊	
	5373 Apr 26 16:18	0°♊			5375 Dec 04 19:19	0°♊	
	5373 May 21 11:54	0°♊		evening max el	5375 Dec 11 23:47	7°♊16'13	46°43'47

	5376 Jan 07 02:27	0° H		morning set	5378 Jun 10 16:14	12° II 43'46	
greatest brilliancy	5376 Jan 21 05:11	7° H 42'54 -4.9m			5378 Jun 24 15:29	0° G	
asc. node	5376 Jan 24 07:22	8° H 40'51		asc. node	5378 Jul 11 02:23	20° G 18'29	
retrograde	5376 Jan 31 06:00	9° H 36'53					
evening set	5376 Feb 15 12:56	4° H 58'53		superior conj	5378 Jul 18 10:32	29° G 21'13	0°17'32
inferior conj	5376 Feb 20 19:10	1° H 51'25 6°27'27		minimum elong	5378 Jul 18 06:48	29° G 09'44	0°17'20
minimum elong	5376 Feb 20 08:13	2° H 08'11 6°24'57			5378 Jul 18 23:07	0° Ω	
min. Earth dist.	5376 Feb 20 07:33	2° H 09'11 0.26748 AU		max. Earth dist.	5378 Jul 19 21:13	1° Ω 08'05	1.73248 AU
	5376 Feb 23 20:54	30° R \approx			5378 Aug 12 07:54	0° H	
morning rise	5376 Feb 25 03:42	29° \approx 15'15		evening rise	5378 Aug 23 22:39	14° H 16'53	
direct	5376 Mar 12 07:34	24° \approx 09'37			5378 Sep 05 17:40	0° L	
greatest brilliancy	5376 Mar 21 18:56	25° \approx 52'29 -4.9m			5378 Sep 30 05:03	0° M	
	5376 Mar 30 12:45	0° H			5378 Oct 24 19:03	0° J	
morning max el	5376 May 01 14:55	26° H 43'49 46°45'45		desc. node	5378 Oct 30 17:38	7° J 13'36	
	5376 May 04 20:47	0° Y			5378 Nov 18 12:32	0° Z	
desc. node	5376 May 14 22:42	10° Y 31'37			5378 Dec 13 10:42	0° \approx	
	5376 Jun 01 16:06	0° B			5379 Jan 07 17:29	0° H	
	5376 Jun 27 19:39	0° II			5379 Feb 02 21:14	0° Y	
	5376 Jul 23 07:23	0° G		asc. node	5379 Feb 20 19:05	19° Y 14'28	
	5376 Aug 17 10:28	0° Ω		evening max el	5379 Feb 22 16:35	21° Y 10'43	47°07'22
asc. node	5376 Sep 05 00:04	22° Ω 23'32			5379 Mar 03 16:10	0° B	
	5376 Sep 11 06:37	0° H		greatest brilliancy	5379 Apr 04 06:26	22° B 31'53	-4.9m
	5376 Oct 05 20:16	0° L		retrograde	5379 Apr 14 09:34	24° B 28'30	
morning set	5376 Oct 28 10:16	27° L 49'49		evening set	5379 May 01 18:30	18° B 38'51	
	5376 Oct 30 04:22	0° M		inferior conj	5379 May 05 07:52	16° B 27'22	7°51'23
	5376 Nov 23 08:31	0° J		minimum elong	5379 May 05 17:05	16° B 13'00	7°49'58
max. Earth dist.	5376 Dec 02 02:03	10° J 52'08 1.72144 AU		min. Earth dist.	5379 May 05 04:26	16° B 32'44	0.27611 AU
				morning rise	5379 May 09 15:52	13° B 48'50	
superior conj	5376 Dec 04 21:23	14° J 21'56 0°47'16		direct	5379 May 26 03:40	8° B 33'33	
minimum elong	5376 Dec 05 06:45	14° J 51'06 0°46'53		greatest brilliancy	5379 Jun 04 17:38	10° B 15'27	-4.8m
	5376 Dec 17 10:09	0° Z		desc. node	5379 Jun 12 10:26	13° B 43'06	
desc. node	5376 Dec 25 15:26	10° Z 16'08			5379 Jul 04 09:41	0° II	
	5377 Jan 10 10:07	0° \approx		morning max el	5379 Jul 14 10:16	9° II 18'33	46°00'29
evening rise	5377 Jan 13 10:34	3° \approx 46'46			5379 Aug 03 16:30	0° G	
	5377 Feb 03 08:59	0° H			5379 Aug 30 20:49	0° Ω	
	5377 Feb 27 08:04	0° Y			5379 Sep 25 19:26	0° H	
	5377 Mar 23 09:52	0° B		asc. node	5379 Oct 03 11:55	9° H 04'18	
	5377 Apr 16 18:06	0° II			5379 Oct 21 00:01	0° L	
asc. node	5377 Apr 17 16:45	1° II 09'14			5379 Nov 14 15:59	0° M	
	5377 May 11 13:42	0° G			5379 Dec 08 23:22	0° J	
	5377 Jun 06 04:37	0° Ω			5380 Jan 02 01:23	0° Z	
	5377 Jul 03 09:27	0° H		morning set	5380 Jan 08 19:21	8° Z 26'23	
evening max el	5377 Jul 17 10:14	14° H 11'27 45°36'36		desc. node	5380 Jan 23 03:12	26° Z 23'39	
	5377 Aug 04 07:41	0° L			5380 Jan 26 00:10	0° \approx	
desc. node	5377 Aug 07 08:15	2° Ω 18'05		max. Earth dist.	5380 Feb 17 20:16	28° \approx 41'57	1.71162 AU
greatest brilliancy	5377 Aug 24 19:52	12° Ω 14'26 -4.7m					
retrograde	5377 Sep 04 04:22	14° Ω 09'48		superior conj	5380 Feb 18 15:08	29° \approx 41'16	-0°58'34
evening set	5377 Sep 21 23:27	8° Ω 13'52		minimum elong	5380 Feb 18 03:14	29° \approx 03'53	0°58'08
inferior conj	5377 Sep 25 16:22	5° Ω 56'14 -8°24'43			5380 Feb 18 21:05	0° H	
minimum elong	5377 Sep 25 12:12	6° Ω 02'47 8°24'28			5380 Mar 13 17:28	0° Y	
min. Earth dist.	5377 Sep 25 19:23	5° Ω 51'31 0.29102 AU		evening rise	5380 Mar 30 12:08	21° Y 04'25	
morning rise	5377 Sep 29 00:54	3° Ω 51'11			5380 Apr 06 15:04	0° B	
	5377 Oct 06 08:07	30° R H			5380 Apr 30 16:00	0° II	
direct	5377 Oct 17 07:16	27° H 37'57		asc. node	5380 May 15 04:43	18° II 00'14	
greatest brilliancy	5377 Oct 27 21:25	29° H 40'22 -4.8m			5380 May 24 22:25	0° G	
	5377 Oct 28 18:00	0° L			5380 Jun 18 12:21	0° Ω	
asc. node	5377 Nov 28 09:40	21° Ω 42'56			5380 Jul 13 12:51	0° H	
morning max el	5377 Dec 05 21:33	28° Ω 54'14 46°13'21			5380 Aug 08 05:54	0° L	
	5377 Dec 07 00:01	0° M		desc. node	5380 Sep 03 19:51	29° Ω 34'25	
	5378 Jan 03 22:15	0° J			5380 Sep 04 05:24	0° M	
	5378 Jan 29 15:44	0° Z		evening max el	5380 Sep 26 18:03	22° M 58'36	45°46'55
	5378 Feb 23 11:37	0° \approx			5380 Oct 04 07:59	0° J	
	5378 Mar 19 21:16	0° H		greatest brilliancy	5380 Nov 05 10:23	21° J 23'24	-4.8m
desc. node	5378 Mar 20 00:53	0° H 11'10		retrograde	5380 Nov 14 15:45	22° J 57'06	
	5378 Apr 13 02:06	0° Y		evening set	5380 Nov 30 10:22	18° J 11'14	
	5378 May 07 05:28	0° B		inferior conj	5380 Dec 05 14:32	15° J 06'43	-4°50'09
	5378 May 31 09:35	0° II		minimum elong	5380 Dec 05 23:57	14° J 52'15	4°47'40

min. Earth dist.	5380 Dec 06 12:49	14° ♊ 32'28	0.27597 AU		5383 Jun 09 09:01	0° ♋	
morning rise	5380 Dec 11 12:45	11° ♊ 35'25		asc. node	5383 Jun 12 16:34	4° ♋ 06'08	
asc. node	5380 Dec 25 21:27	7° ♊ 06'37		evening rise	5383 Jun 13 22:56	5° ♋ 40'00	
direct	5380 Dec 26 14:24	7° ♊ 06'00			5383 Jul 03 16:35	0° ♌	
greatest brilliancy	5381 Jan 06 18:50	9° ♊ 26'04	-4.9m		5383 Jul 28 04:23	0° ♍	
	5381 Feb 04 17:46	0° ♋			5383 Aug 21 21:32	0° ♎	
morning max el	5381 Feb 15 05:05	10° ♋ 10'53	46°54'40		5383 Sep 15 22:22	0° ♏	
	5381 Mar 05 19:30	0° ♌		desc. node	5383 Oct 02 07:47	19° ♏ 21'02	
	5381 Apr 01 00:20	0° ♍			5383 Oct 11 10:47	0° ♐	
desc. node	5381 Apr 16 12:54	18° ♍ 23'32			5383 Nov 06 17:57	0° ♑	
	5381 Apr 26 05:11	0° ♒			5383 Dec 04 16:23	0° ♒	
	5381 May 20 23:54	0° ♓		evening max el	5383 Dec 09 14:11	4° ♓ 55'40	46°41'42
	5381 Jun 14 14:37	0° ♊			5384 Jan 08 07:27	0° ♋	
	5381 Jul 09 04:04	0° ♌		greatest brilliancy	5384 Jan 18 18:03	5° ♋ 15'26	-4.9m
	5381 Aug 02 16:40	0° ♍		asc. node	5384 Jan 23 09:17	6° ♋ 34'34	
asc. node	5381 Aug 07 14:10	5° ♌ 59'45		retrograde	5384 Jan 28 18:30	7° ♋ 08'26	
morning set	5381 Aug 18 18:42	19° ♌ 42'46		evening set	5384 Feb 12 21:58	2° ♋ 35'57	
	5381 Aug 27 03:46	0° ♍			5384 Feb 17 07:46	30° ♒	
	5381 Sep 20 12:46	0° ♎		inferior conj	5384 Feb 18 07:32	29° ♓ 23'37	6°09'45
max. Earth dist.	5381 Sep 22 14:32	2° ♎ 33'29	1.73288 AU	minimum elong	5384 Feb 17 20:40	29° ♓ 40'17	6°07'08
				min. Earth dist.	5384 Feb 17 20:37	29° ♓ 40'21	0.26733 AU
superior conj	5381 Sep 24 07:28	4° ♎ 39'44	1°23'11	morning rise	5384 Feb 22 19:33	26° ♓ 42'16	
minimum elong	5381 Sep 24 03:24	4° ♎ 27'09	1°23'09	direct	5384 Mar 09 20:14	21° ♓ 42'06	
	5381 Oct 14 19:57	0° ♏		greatest brilliancy	5384 Mar 19 08:12	23° ♓ 25'16	-4.9m
evening rise	5381 Oct 30 22:09	19° ♏ 53'49			5384 Mar 31 23:29	0° ♋	
	5381 Nov 08 02:13	0° ♊		morning max el	5384 Apr 29 03:29	24° ♋ 17'38	46°46'59
desc. node	5381 Nov 27 05:37	23° ♊ 40'50			5384 May 04 18:17	0° ♒	
	5381 Dec 02 08:13	0° ♋		desc. node	5384 May 14 00:47	9° ♒ 46'34	
	5381 Dec 26 14:15	0° ♌			5384 Jun 01 07:58	0° ♓	
	5382 Jan 19 21:00	0° ♍			5384 Jun 27 09:13	0° ♎	
	5382 Feb 13 06:55	0° ♒			5384 Jul 22 19:44	0° ♋	
	5382 Mar 10 01:43	0° ♓			5384 Aug 16 22:04	0° ♌	
asc. node	5382 Mar 20 06:50	12° ♓ 07'16		asc. node	5384 Sep 04 02:01	21° ♌ 55'26	
	5382 Apr 04 16:44	0° ♊			5384 Sep 10 17:46	0° ♍	
	5382 May 02 07:37	0° ♌			5384 Oct 05 07:08	0° ♎	
evening max el	5382 May 05 09:51	3° ♋ 06'37	46°23'52	morning set	5384 Oct 26 03:13	25° ♋ 40'32	
	5382 Jun 07 12:36	0° ♍			5384 Oct 29 15:08	0° ♏	
greatest brilliancy	5382 Jun 13 03:45	2° ♌ 37'12	-4.8m		5384 Nov 22 19:17	0° ♐	
retrograde	5382 Jun 24 06:13	4° ♌ 53'08		max. Earth dist.	5384 Nov 29 15:04	8° ♊ 29'42	1.72190 AU
evening set	5382 Jul 09 05:24	0° ♌ 29'00					
desc. node	5382 Jul 09 22:20	0° ♌ 05'25		superior conj	5384 Dec 02 12:18	12° ♊ 05'16	0°50'09
	5382 Jul 10 02:10	30° ♒		minimum elong	5384 Dec 02 21:54	12° ♊ 35'12	0°49'47
min. Earth dist.	5382 Jul 15 04:29	26° ♋ 55'11	0.28554 AU		5384 Dec 16 21:00	0° ♋	
inferior conj	5382 Jul 15 14:39	26° ♋ 39'19	-1°22'14	desc. node	5384 Dec 24 17:25	9° ♋ 48'17	
minimum elong	5382 Jul 15 11:37	26° ♋ 44'04	1°21'20		5385 Jan 09 21:06	0° ♌	
morning rise	5382 Jul 21 18:22	22° ♋ 58'20		evening rise	5385 Jan 10 23:05	1° ♌ 21'16	
direct	5382 Aug 05 23:08	18° ♋ 30'39			5385 Feb 02 20:09	0° ♍	
greatest brilliancy	5382 Aug 15 22:03	20° ♋ 18'15	-4.7m		5385 Feb 26 19:26	0° ♒	
	5382 Sep 02 09:14	0° ♌			5385 Mar 22 21:32	0° ♓	
morning max el	5382 Sep 23 16:20	18° ♌ 11'47	45°42'23		5385 Apr 16 06:12	0° ♊	
	5382 Oct 05 13:36	0° ♍		asc. node	5385 Apr 16 18:50	0° ♊ 38'35	
asc. node	5382 Oct 30 23:57	27° ♍ 30'18			5385 May 11 02:34	0° ♌	
	5382 Nov 02 04:59	0° ♎			5385 Jun 05 19:01	0° ♍	
	5382 Nov 28 00:38	0° ♏			5385 Jul 03 03:42	0° ♎	
	5382 Dec 22 22:07	0° ♐		evening max el	5385 Jul 15 01:01	11° ♐ 57'33	45°37'24
	5383 Jan 16 07:27	0° ♑			5385 Aug 04 19:53	0° ♏	
	5383 Feb 09 10:09	0° ♒		desc. node	5385 Aug 06 10:08	1° ♎ 09'45	
desc. node	5383 Feb 19 15:01	12° ♒ 45'26		greatest brilliancy	5385 Aug 22 11:25	10° ♎ 04'37	-4.7m
	5383 Mar 05 09:18	0° ♋		retrograde	5385 Sep 01 19:55	12° ♎ 00'26	
morning set	5383 Mar 26 08:15	26° ♋ 18'00		evening set	5385 Sep 19 13:12	6° ♎ 08'03	
	5383 Mar 29 07:00	0° ♒		inferior conj	5385 Sep 23 08:41	3° ♎ 46'36	-8°20'08
	5383 Apr 22 05:05	0° ♓		minimum elong	5385 Sep 23 03:49	3° ♎ 54'16	8°19'47
				min. Earth dist.	5385 Sep 23 11:00	3° ♎ 42'58	0.29114 AU
superior conj	5383 May 05 15:18	16° ♓ 47'31	-1°15'48	morning rise	5385 Sep 26 18:21	1° ♏ 39'40	
minimum elong	5383 May 06 01:01	17° ♓ 17'52	1°15'35		5385 Sep 29 14:47	30° ♒	
max. Earth dist.	5383 May 09 10:46	21° ♓ 33'05	1.71911 AU	direct	5385 Oct 14 23:06	25° ♒ 28'11	
	5383 May 16 05:21	0° ♊		greatest brilliancy	5385 Oct 25 13:20	27° ♒ 29'58	-4.8m

	5385 Oct 31 03:59	0°♌		asc. node	5388 May 14 06:42	17°♊31'16	
asc. node	5385 Nov 27 11:37	20°♌49'31			5388 May 24 09:51	0°♌	
morning max el	5385 Dec 03 11:43	26°♌36'42	46°11'54		5388 Jun 18 00:12	0°♌	
	5385 Dec 06 21:03	0°♌			5388 Jul 13 01:26	0°♌	
	5386 Jan 03 13:42	0°♌			5388 Aug 07 19:55	0°♌	
	5386 Jan 29 05:11	0°♌		desc. node	5388 Sep 02 21:58	28°♌54'18	
	5386 Feb 23 00:06	0°♌			5388 Sep 03 22:37	0°♌	
desc. node	5386 Mar 19 02:57	29°♌40'45		evening max el	5388 Sep 24 08:42	20°♌43'29	45°45'42
	5386 Mar 19 09:11	0°♌			5388 Oct 04 12:05	0°♌	
	5386 Apr 12 13:41	0°♌		greatest brilliancy	5388 Nov 02 23:11	19°♌03'50	-4.8m
	5386 May 06 16:48	0°♌		retrograde	5388 Nov 12 05:50	20°♌38'10	
	5386 May 30 20:42	0°♌		evening set	5388 Nov 28 03:05	15°♌47'40	
morning set	5386 Jun 08 07:21	10°♌27'49		inferior conj	5388 Dec 03 04:31	12°♌46'43	-5°08'20
	5386 Jun 24 02:26	0°♌		minimum elong	5388 Dec 03 14:14	12°♌31'46	5°05'52
asc. node	5386 Jul 10 04:17	19°♌50'51		min. Earth dist.	5388 Dec 04 02:55	12°♌12'17	0.27665 AU
				morning rise	5388 Dec 09 00:43	9°♌18'18	
superior conj	5386 Jul 16 03:11	27°♌11'15	0°14'16	direct	5388 Dec 24 05:33	4°♌45'02	
minimum elong	5386 Jul 16 00:07	27°♌01'48	0°14'05	asc. node	5388 Dec 24 23:24	4°♌45'42	
behind sun begin	5386 Jul 15 13:13	26°♌28'14		greatest brilliancy	5389 Jan 04 09:41	7°♌05'16	-4.9m
behind sun end	5386 Jul 16 11:00	27°♌35'23			5389 Feb 04 20:42	0°♌	
max. Earth dist.	5386 Jul 17 15:06	29°♌01'56	1.73217 AU	morning max el	5389 Feb 12 20:53	7°♌52'22	46°53'55
	5386 Jul 18 09:57	0°♌			5389 Mar 05 13:00	0°♌	
	5386 Aug 11 18:44	0°♌			5389 Mar 31 14:51	0°♌	
evening rise	5386 Aug 21 16:46	12°♌11'40		desc. node	5389 Apr 15 14:59	17°♌49'21	
	5386 Sep 05 04:38	0°♌			5389 Apr 25 18:15	0°♌	
	5386 Sep 29 16:16	0°♌			5389 May 20 12:06	0°♌	
	5386 Oct 24 06:40	0°♌			5389 Jun 14 02:17	0°♌	
desc. node	5386 Oct 29 19:44	6°♌44'20			5389 Jul 08 15:21	0°♌	
	5386 Nov 18 00:43	0°♌			5389 Aug 02 03:43	0°♌	
	5386 Dec 12 23:46	0°♌		asc. node	5389 Aug 06 16:11	5°♌32'14	
	5387 Jan 07 08:02	0°♌		morning set	5389 Aug 16 12:08	17°♌35'28	
	5387 Feb 02 14:52	0°♌			5389 Aug 26 14:40	0°♌	
asc. node	5387 Feb 19 21:03	18°♌23'07			5389 Sep 19 23:36	0°♌	
evening max el	5387 Feb 20 05:18	18°♌44'07	47°07'43	max. Earth dist.	5389 Sep 20 11:52	0°♌37'48	1.73308 AU
	5387 Mar 03 19:41	0°♌					
greatest brilliancy	5387 Apr 01 21:31	20°♌10'23	-4.9m	superior conj	5389 Sep 22 01:16	2°♌33'08	1°22'24
retrograde	5387 Apr 11 23:32	22°♌06'30		minimum elong	5389 Sep 21 20:36	2°♌18'42	1°22'20
evening set	5387 Apr 29 11:35	16°♌12'19			5389 Oct 14 06:51	0°♌	
inferior conj	5387 May 02 21:50	14°♌05'46	8°02'28	evening rise	5389 Oct 28 14:25	17°♌41'45	
minimum elong	5387 May 03 06:34	13°♌52'10	8°01'12		5389 Nov 07 13:15	0°♌	
min. Earth dist.	5387 May 02 18:22	14°♌11'10	0.27587 AU	desc. node	5389 Nov 26 07:31	23°♌11'58	
morning rise	5387 May 07 01:42	11°♌33'21			5389 Dec 01 19:30	0°♌	
direct	5387 May 23 16:35	6°♌12'05			5389 Dec 26 01:53	0°♌	
greatest brilliancy	5387 Jun 02 07:14	7°♌54'29	-4.8m		5390 Jan 19 09:03	0°♌	
desc. node	5387 Jun 11 12:25	12°♌13'35			5390 Feb 12 19:34	0°♌	
	5387 Jul 04 13:33	0°♌			5390 Mar 09 15:20	0°♌	
morning max el	5387 Jul 12 00:36	7°♌00'48	46°01'58	asc. node	5390 Mar 19 08:58	11°♌31'36	
	5387 Aug 03 09:53	0°♌			5390 Apr 04 08:22	0°♌	
	5387 Aug 30 10:55	0°♌			5390 May 02 04:48	0°♌	
	5387 Sep 25 08:02	0°♌		evening max el	5390 May 03 02:14	0°♌53'31	46°25'55
asc. node	5387 Oct 02 14:03	8°♌34'09			5390 Jun 09 19:03	0°♌	
	5387 Oct 20 11:49	0°♌		greatest brilliancy	5390 Jun 10 20:07	0°♌25'13	-4.8m
	5387 Nov 14 03:23	0°♌		retrograde	5390 Jun 21 22:47	2°♌40'51	
	5387 Dec 08 10:34	0°♌			5390 Jul 03 11:43	30°♌	
	5388 Jan 01 12:29	0°♌		evening set	5390 Jul 06 21:33	28°♌16'56	
morning set	5388 Jan 06 08:03	6°♌01'16		desc. node	5390 Jul 09 00:15	27°♌04'24	
desc. node	5388 Jan 22 05:09	25°♌55'06		inferior conj	5390 Jul 13 06:28	24°♌27'20	-1°01'48
	5388 Jan 25 11:14	0°♌		minimum elong	5390 Jul 13 04:10	24°♌30'55	1°01'08
max. Earth dist.	5388 Feb 15 05:00	26°♌03'42	1.71172 AU	min. Earth dist.	5390 Jul 12 20:19	24°♌43'12	0.28518 AU
				morning rise	5390 Jul 19 11:27	20°♌44'47	
superior conj	5388 Feb 16 01:52	27°♌09'18	-0°55'35	direct	5390 Aug 03 15:10	16°♌19'23	
minimum elong	5388 Feb 15 14:10	26°♌32'31	0°55'07	greatest brilliancy	5390 Aug 13 12:36	18°♌05'58	-4.7m
	5388 Feb 18 08:09	0°♌			5390 Sep 02 22:55	0°♌	
	5388 Mar 13 04:32	0°♌		morning max el	5390 Sep 21 08:11	16°♌01'20	45°42'01
evening rise	5388 Mar 27 23:02	18°♌33'17			5390 Oct 05 08:09	0°♌	
	5388 Apr 06 02:11	0°♌		asc. node	5390 Oct 30 01:54	26°♌54'22	
	5388 Apr 30 03:14	0°♌			5390 Nov 01 19:28	0°♌	

	5390 Nov 27 13:28	0°♌			5393 Jul 02 22:18	0°♐	
	5390 Dec 22 10:10	0°♏		evening max el	5393 Jul 12 15:32	9°♐43'22	45°38'20
	5391 Jan 15 19:05	0°♐		desc. node	5393 Aug 05 12:16	0°♑00'25	
	5391 Feb 08 21:33	0°♑			5393 Aug 05 12:02	0°♑	
desc. node	5391 Feb 18 17:03	12°♑16'23		greatest brilliancy	5393 Aug 20 02:20	7°♑54'30	-4.7m
	5391 Mar 04 20:33	0°♒		retrograde	5393 Aug 30 11:40	9°♑51'43	
morning set	5391 Mar 23 18:36	23°♒44'53		evening set	5393 Sep 17 02:44	4°♑02'47	
	5391 Mar 28 18:07	0°♓		inferior conj	5393 Sep 21 01:00	1°♑37'24	-8°14'45
	5391 Apr 21 16:06	0°♈		minimum elong	5393 Sep 20 19:28	1°♑46'05	8°14'17
				min. Earth dist.	5393 Sep 21 02:32	1°♑35'00	0.29129 AU
superior conj	5391 May 03 03:52	14°♈22'29	-1°17'36		5393 Sep 23 15:22	30°♒♐	
minimum elong	5391 May 03 13:05	14°♈51'18	1°17'24	morning rise	5393 Sep 24 12:05	29°♐28'20	
max. Earth dist.	5391 May 07 01:10	19°♈13'56	1.71858 AU	direct	5393 Oct 12 14:55	23°♐18'44	
	5391 May 15 16:18	0°♉		greatest brilliancy	5393 Oct 23 05:33	25°♐20'28	-4.8m
	5391 Jun 08 19:56	0°♊			5393 Nov 01 16:34	0°♑	
evening rise	5391 Jun 11 13:52	3°♊24'01		asc. node	5393 Nov 26 13:36	19°♑57'26	
asc. node	5391 Jun 11 18:29	3°♊38'16		morning max el	5393 Dec 01 02:33	24°♑21'04	46°10'20
	5391 Jul 03 03:34	0°♋			5393 Dec 06 17:19	0°♌	
	5391 Jul 27 15:34	0°♍			5394 Jan 03 04:56	0°♏	
	5391 Aug 21 09:07	0°♎			5394 Jan 28 18:31	0°♐	
	5391 Sep 15 10:42	0°♏			5394 Feb 22 12:28	0°♑	
desc. node	5391 Oct 01 09:49	18°♏48'43		desc. node	5394 Mar 18 05:04	29°♑10'48	
	5391 Oct 11 00:24	0°♏			5394 Mar 18 20:58	0°♒	
	5391 Nov 06 10:00	0°♐			5394 Apr 12 01:05	0°♓	
	5391 Dec 04 14:27	0°♑			5394 May 06 03:56	0°♈	
evening max el	5391 Dec 07 03:50	2°♑32'47	46°39'44		5394 May 30 07:37	0°♉	
	5392 Jan 10 01:27	0°♒		morning set	5394 Jun 05 22:19	8°♉11'53	
greatest brilliancy	5392 Jan 16 07:27	2°♒48'22	-4.9m		5394 Jun 23 13:11	0°♊	
asc. node	5392 Jan 22 11:18	4°♒22'56		asc. node	5394 Jul 09 06:21	19°♊24'14	
retrograde	5392 Jan 26 06:30	4°♒39'55					
evening set	5392 Feb 10 07:16	0°♒12'32		superior conj	5394 Jul 13 19:50	25°♊01'47	0°10'57
	5392 Feb 10 16:18	30°♒♑		minimum elong	5394 Jul 13 17:27	24°♊54'27	0°10'49
inferior conj	5392 Feb 15 19:58	26°♑55'53	5°51'20	behind sun begin	5394 Jul 13 00:13	24°♊01'19	
minimum elong	5392 Feb 15 09:16	27°♑12'19	5°48'40	behind sun end	5394 Jul 14 10:41	25°♊47'35	
min. Earth dist.	5392 Feb 15 10:06	27°♑11'01	0.26719 AU	max. Earth dist.	5394 Jul 15 08:19	26°♊54'14	1.73187 AU
morning rise	5392 Feb 20 11:23	24°♑09'25			5394 Jul 17 20:37	0°♋	
direct	5392 Mar 07 08:23	19°♑14'27			5394 Aug 11 05:23	0°♍	
greatest brilliancy	5392 Mar 16 22:09	20°♑58'41	-4.9m	evening rise	5394 Aug 19 11:03	10°♍07'34	
	5392 Apr 02 00:19	0°♒			5394 Sep 04 15:23	0°♎	
morning max el	5392 Apr 26 15:30	21°♒49'48	46°48'12		5394 Sep 29 03:16	0°♏	
	5392 May 04 15:05	0°♓			5394 Oct 23 18:05	0°♏	
desc. node	5392 May 13 02:42	9°♓01'40		desc. node	5394 Oct 28 21:42	6°♏15'14	
	5392 May 31 23:37	0°♈			5394 Nov 17 12:46	0°♐	
	5392 Jun 26 22:41	0°♉			5394 Dec 12 12:47	0°♑	
	5392 Jul 22 08:01	0°♊			5395 Jan 06 22:40	0°♒	
	5392 Aug 16 09:38	0°♋			5395 Feb 02 08:50	0°♓	
asc. node	5392 Sep 03 04:08	21°♋27'55		evening max el	5395 Feb 17 18:55	16°♓20'04	47°08'11
	5392 Sep 10 04:52	0°♌		asc. node	5395 Feb 18 23:11	17°♓31'34	
	5392 Oct 04 18:01	0°♍			5395 Mar 04 00:53	0°♈	
morning set	5392 Oct 23 19:57	23°♍30'28		greatest brilliancy	5395 Mar 30 11:59	17°♈48'25	-4.9m
	5392 Oct 29 01:56	0°♎		retrograde	5395 Apr 09 13:55	19°♈44'50	
	5392 Nov 22 06:07	0°♏		evening set	5395 Apr 27 04:31	13°♈46'04	
max. Earth dist.	5392 Nov 27 04:16	6°♏07'35	1.72239 AU	inferior conj	5395 Apr 30 11:42	11°♈44'23	8°12'42
				minimum elong	5395 Apr 30 19:55	11°♈31'37	8°11'37
superior conj	5392 Nov 30 03:01	9°♏47'49	0°52'59	min. Earth dist.	5395 Apr 30 07:51	11°♈50'23	0.27558 AU
minimum elong	5392 Nov 30 12:49	10°♏18'21	0°52'37	morning rise	5395 May 04 11:28	9°♈18'19	
	5392 Dec 16 07:56	0°♐		direct	5395 May 21 05:51	3°♈50'59	
desc. node	5392 Dec 23 19:23	9°♐20'16		greatest brilliancy	5395 May 30 20:15	5°♈33'33	-4.8m
evening rise	5393 Jan 08 11:23	28°♐55'08		desc. node	5395 Jun 10 14:26	10°♈47'58	
	5393 Jan 09 08:08	0°♑			5395 Jul 04 15:27	0°♉	
	5393 Feb 02 07:18	0°♒		morning max el	5395 Jul 09 15:44	4°♉45'52	46°03'25
	5393 Feb 26 06:47	0°♓			5395 Aug 03 02:33	0°♊	
	5393 Mar 22 09:10	0°♈			5395 Aug 30 00:34	0°♋	
asc. node	5393 Apr 15 20:47	0°♉07'38			5395 Sep 24 20:15	0°♌	
	5393 Apr 15 18:17	0°♊		asc. node	5395 Oct 01 15:58	8°♌04'25	
	5393 May 10 15:26	0°♋			5395 Oct 19 23:17	0°♍	
	5393 Jun 05 09:30	0°♌			5395 Nov 13 14:27	0°♎	

	5395 Dec 07 21:26	0°♊			5398 Jun 24 11:58	30°♋	
	5395 Dec 31 23:18	0°♋		evening set	5398 Jul 04 13:49	26°♌05'07	
morning set	5396 Jan 03 20:55	3°♋37'35		desc. node	5398 Jul 08 02:21	24°♌01'29	
desc. node	5396 Jan 21 07:16	25°♋27'47		inferior conj	5398 Jul 10 22:14	22°♌15'56	-0°41'10
	5396 Jan 24 22:03	0°♌		minimum elong	5398 Jul 10 20:42	22°♌18'20	0°40'43
max. Earth dist.	5396 Feb 12 14:18	23°♌27'52	1.71188 AU	min. Earth dist.	5398 Jul 10 12:26	22°♌31'17	0.28478 AU
				morning rise	5398 Jul 17 04:15	18°♌31'46	
superior conj	5396 Feb 13 12:17	24°♌36'59	-0°52'26	direct	5398 Aug 01 06:48	14°♌08'47	
minimum elong	5396 Feb 13 00:53	24°♌01'07	0°51'58	greatest brilliancy	5398 Aug 11 03:23	15°♌54'32	-4.7m
	5396 Feb 17 19:00	0°♍			5398 Sep 03 08:38	0°♍	
	5396 Mar 12 15:26	0°♎		morning max el	5398 Sep 18 23:05	13°♍49'34	45°41'45
evening rise	5396 Mar 25 09:26	16°♎01'11			5398 Oct 05 01:50	0°♏	
	5396 Apr 05 13:06	0°♐		asc. node	5398 Oct 29 03:50	26°♏19'44	
	5396 Apr 29 14:13	0°♑			5398 Nov 01 09:25	0°♑	
asc. node	5396 May 13 08:38	17°♑03'02			5398 Nov 27 01:52	0°♒	
	5396 May 23 21:01	0°♓			5398 Dec 21 21:49	0°♓	
	5396 Jun 17 11:46	0°♑			5399 Jan 15 06:20	0°♋	
	5396 Jul 12 13:46	0°♏			5399 Feb 08 08:34	0°♌	
	5396 Aug 07 09:43	0°♍		desc. node	5399 Feb 17 19:08	11°♌48'37	
desc. node	5396 Sep 02 00:01	28°♍14'42			5399 Mar 04 07:26	0°♍	
	5396 Sep 03 15:49	0°♎		morning set	5399 Mar 21 05:06	21°♍13'19	
evening max el	5396 Sep 22 00:09	18°♎31'34	45°44'30		5399 Mar 28 04:53	0°♎	
	5396 Oct 04 17:31	0°♊			5399 Apr 21 02:49	0°♐	
greatest brilliancy	5396 Oct 31 12:16	16°♊46'23	-4.8m				
retrograde	5396 Nov 09 19:50	18°♊20'59		superior conj	5399 Apr 30 16:21	11°♐58'07	-1°19'15
evening set	5396 Nov 25 20:04	13°♊26'08		minimum elong	5399 May 01 01:00	12°♐25'08	1°19'06
inferior conj	5396 Nov 30 18:41	10°♊28'41	-5°25'48	max. Earth dist.	5399 May 04 14:10	16°♐51'15	1.71809 AU
minimum elong	5396 Dec 01 04:39	10°♊13'20	5°23'20		5399 May 15 02:59	0°♑	
min. Earth dist.	5396 Dec 01 17:03	9°♊54'15	0.27731 AU		5399 Jun 08 06:38	0°♒	
morning rise	5396 Dec 06 12:39	7°♊03'13		evening rise	5399 Jun 09 04:24	1°♓07'24	
direct	5396 Dec 21 21:02	2°♊26'16		asc. node	5399 Jun 10 20:34	3°♓11'39	
asc. node	5396 Dec 24 01:25	2°♊32'00			5399 Jul 02 14:19	0°♑	
greatest brilliancy	5397 Jan 02 00:16	4°♊45'51	-4.9m		5399 Jul 27 02:30	0°♏	
	5397 Feb 04 21:43	0°♋			5399 Aug 20 20:28	0°♍	
morning max el	5397 Feb 10 12:05	5°♋33'33	46°52'50		5399 Sep 14 22:48	0°♎	
	5397 Mar 05 05:49	0°♌		desc. node	5399 Sep 30 11:45	18°♎16'53	
	5397 Mar 31 04:57	0°♍			5399 Oct 10 13:51	0°♊	
desc. node	5397 Apr 14 16:52	17°♍15'30			5399 Nov 06 02:02	0°♋	
	5397 Apr 25 07:00	0°♎		evening max el	5399 Dec 04 16:47	0°♌09'11	46°37'46
	5397 May 20 00:01	0°♐			5399 Dec 04 13:04	0°♌	
	5397 Jun 13 13:37	0°♑			5400 Jan 12 20:38	0°♍	
	5397 Jul 08 02:17	0°♓		greatest brilliancy	5400 Jan 13 21:14	0°♍22'56	-4.9m
	5397 Aug 01 14:24	0°♑		asc. node	5400 Jan 21 13:23	2°♍07'21	
asc. node	5397 Aug 05 18:15	5°♑05'57		retrograde	5400 Jan 23 18:27	2°♍13'10	
morning set	5397 Aug 14 05:35	15°♑29'18			5400 Feb 03 05:54	30°♋	
	5397 Aug 26 01:12	0°♏		evening set	5400 Feb 07 16:55	27°♌50'10	
max. Earth dist.	5397 Sep 18 07:52	28°♏39'07	1.73326 AU	inferior conj	5400 Feb 13 08:35	24°♌29'50	5°32'14
	5397 Sep 19 10:06	0°♍		minimum elong	5400 Feb 12 22:07	24°♌45'53	5°29'32
				min. Earth dist.	5400 Feb 13 00:01	24°♌42'59	0.26706 AU
superior conj	5397 Sep 19 19:15	0°♍28'11	1°21'30	morning rise	5400 Feb 18 03:20	21°♌38'29	
minimum elong	5397 Sep 19 13:59	0°♍11'58	1°21'25	direct	5400 Mar 05 20:27	16°♌48'11	
	5397 Oct 13 17:24	0°♎		greatest brilliancy	5400 Mar 15 12:44	18°♌34'18	-4.9m
evening rise	5397 Oct 26 06:59	15°♎31'42			5400 Apr 03 18:00	0°♍	
	5397 Nov 06 23:57	0°♊		morning max el	5400 Apr 25 03:40	19°♍23'18	46°49'25
desc. node	5397 Nov 25 09:34	22°♊44'37			5400 May 05 10:49	0°♎	
	5397 Dec 01 06:26	0°♋		desc. node	5400 May 13 04:47	8°♎18'52	
	5397 Dec 25 13:09	0°♌			5400 Jun 01 14:43	0°♐	
	5398 Jan 18 20:45	0°♍			5400 Jun 27 11:49	0°♑	
	5398 Feb 12 07:54	0°♎			5400 Jul 22 20:04	0°♓	
	5398 Mar 09 04:44	0°♐			5400 Aug 16 21:00	0°♑	
asc. node	5398 Mar 18 10:51	10°♐55'56		asc. node	5400 Sep 03 06:04	21°♑00'21	
	5398 Apr 03 23:58	0°♑			5400 Sep 10 15:48	0°♏	
evening max el	5398 Apr 30 18:14	28°♑39'56	46°27'53		5400 Oct 05 04:43	0°♍	
	5398 May 02 02:32	0°♓		morning set	5400 Oct 22 12:45	21°♍21'14	
greatest brilliancy	5398 Jun 08 13:11	28°♓14'24	-4.8m		5400 Oct 29 12:33	0°♎	
	5398 Jun 14 14:39	0°♑			5400 Nov 22 16:46	0°♊	
retrograde	5398 Jun 19 14:50	0°♑28'50		max. Earth dist.	5400 Nov 25 20:12	3°♊54'40	1.72288 AU

superior conj	5400 Nov 28 17:56	7° ♊ 31'41	0°55'42	min. Earth dist.	5403 Apr 28 20:55	9° ♋ 29'26	0.27528 AU
minimum elong	5400 Nov 29 03:52	8° ♊ 02'35	0°55'20	morning rise	5403 May 02 21:10	7° ♋ 02'35	
	5400 Dec 16 18:41	0° ♋		direct	5403 May 19 19:35	1° ♋ 29'26	
desc. node	5400 Dec 23 21:30	8° ♋ 53'10		greatest brilliancy	5403 May 29 08:38	3° ♋ 11'27	-4.8m
evening rise	5401 Jan 07 00:01	26° ♋ 30'40		desc. node	5403 Jun 10 16:29	9° ♋ 24'59	
	5401 Jan 09 19:00	0° ♌			5403 Jul 05 16:07	0° ♌	
	5401 Feb 02 18:19	0° ♌		morning max el	5403 Jul 08 07:12	2° ♌ 31'32	46°04'57
	5401 Feb 26 18:00	0° ♍			5403 Aug 03 18:58	0° ♍	
	5401 Mar 22 20:38	0° ♍			5403 Aug 30 14:10	0° ♎	
asc. node	5401 Apr 15 22:47	29° ♍ 37'25			5403 Sep 25 08:32	0° ♏	
	5401 Apr 16 06:12	0° ♎		asc. node	5403 Oct 01 17:56	7° ♏ 34'29	
	5401 May 11 04:10	0° ♏			5403 Oct 20 10:54	0° ♐	
	5401 Jun 05 23:59	0° ♐			5403 Nov 14 01:41	0° ♑	
	5401 Jul 03 17:17	0° ♑			5403 Dec 08 08:30	0° ♒	
evening max el	5401 Jul 11 06:32	7° ♑ 30'38	45°39'14		5404 Jan 01 10:16	0° ♓	
desc. node	5401 Aug 05 14:17	28° ♑ 49'09		morning set	5404 Jan 02 09:55	1° ♓ 13'54	
	5401 Aug 07 09:47	0° ♒		desc. node	5404 Jan 21 09:15	24° ♓ 59'33	
greatest brilliancy	5401 Aug 18 16:49	5° ♒ 44'06	-4.7m		5404 Jan 25 09:02	0° ♑	
retrograde	5401 Aug 29 04:02	7° ♒ 43'21		max. Earth dist.	5404 Feb 10 23:27	20° ♑ 51'08	1.71203 AU
evening set	5401 Sep 15 16:08	1° ♒ 57'58					
	5401 Sep 18 21:11	30° ♒ 00		superior conj	5404 Feb 11 22:45	22° ♑ 04'22	-0°49'11
inferior conj	5401 Sep 19 17:20	29° ♒ 28'26	-8°08'33	minimum elong	5404 Feb 11 11:45	21° ♑ 29'48	0°48'43
minimum elong	5401 Sep 19 11:11	29° ♒ 38'04	8°07'59		5404 Feb 18 06:01	0° ♒	
min. Earth dist.	5401 Sep 19 17:51	29° ♒ 27'38	0.29141 AU		5404 Mar 13 02:30	0° ♓	
morning rise	5401 Sep 23 06:09	27° ♒ 16'58		evening rise	5404 Mar 23 19:51	13° ♓ 28'28	
direct	5401 Oct 11 07:02	21° ♒ 09'34			5404 Apr 06 00:13	0° ♋	
greatest brilliancy	5401 Oct 21 21:38	23° ♒ 11'18	-4.8m		5404 Apr 30 01:27	0° ♌	
	5401 Nov 03 18:05	0° ♋		asc. node	5404 May 13 10:44	16° ♌ 34'29	
asc. node	5401 Nov 26 15:42	19° ♋ 06'59			5404 May 24 08:28	0° ♍	
morning max el	5401 Nov 29 18:14	22° ♋ 08'06	46°08'49		5404 Jun 17 23:36	0° ♎	
	5401 Dec 07 12:51	0° ♌			5404 Jul 13 02:21	0° ♏	
	5402 Jan 03 19:51	0° ♌			5404 Aug 07 23:52	0° ♐	
	5402 Jan 29 07:39	0° ♍		desc. node	5404 Sep 02 01:55	27° ♐ 33'37	
	5402 Feb 23 00:42	0° ♍			5404 Sep 04 09:38	0° ♑	
desc. node	5402 Mar 18 06:55	28° ♍ 40'17		evening max el	5404 Sep 20 15:21	16° ♑ 18'21	45°43'08
	5402 Mar 19 08:40	0° ♌			5404 Oct 06 01:38	0° ♒	
	5402 Apr 12 12:26	0° ♍		greatest brilliancy	5404 Oct 30 01:49	14° ♒ 28'46	-4.8m
	5402 May 06 15:00	0° ♋		retrograde	5404 Nov 08 09:23	16° ♒ 03'00	
	5402 May 30 18:28	0° ♌		evening set	5404 Nov 24 13:10	11° ♒ 03'54	
morning set	5402 Jun 04 13:32	5° ♌ 56'48		inferior conj	5404 Nov 29 08:56	8° ♒ 10'02	-5°42'35
	5402 Jun 23 23:52	0° ♍		minimum elong	5404 Nov 29 19:04	7° ♒ 54'22	5°40'11
asc. node	5402 Jul 09 08:24	18° ♍ 57'46		min. Earth dist.	5404 Nov 30 07:25	7° ♒ 35'20	0.27797 AU
				morning rise	5404 Dec 05 00:25	4° ♒ 47'33	
superior conj	5402 Jul 12 12:38	22° ♍ 52'53	0°07'39	direct	5404 Dec 20 12:18	0° ♒ 06'52	
minimum elong	5402 Jul 12 10:58	22° ♍ 47'43	0°07'33	asc. node	5404 Dec 24 03:28	0° ♒ 22'31	
behind sun begin	5402 Jul 11 14:15	21° ♍ 43'49		greatest brilliancy	5404 Dec 31 15:04	2° ♒ 25'46	-4.9m
behind sun end	5402 Jul 13 07:41	23° ♍ 51'36			5405 Feb 05 21:56	0° ♓	
max. Earth dist.	5402 Jul 14 03:30	24° ♍ 52'40	1.73161 AU	morning max el	5405 Feb 09 02:19	3° ♓ 11'23	46°51'48
	5402 Jul 18 07:14	0° ♎			5405 Mar 05 22:37	0° ♑	
	5402 Aug 11 16:02	0° ♏			5405 Mar 31 19:10	0° ♒	
evening rise	5402 Aug 18 05:30	8° ♏ 03'57		desc. node	5405 Apr 14 18:59	16° ♒ 41'44	
	5402 Sep 05 02:11	0° ♐			5405 Apr 25 19:55	0° ♓	
	5402 Sep 29 14:20	0° ♑			5405 May 20 12:10	0° ♋	
	5402 Oct 24 05:34	0° ♒			5405 Jun 14 01:14	0° ♌	
desc. node	5402 Oct 28 23:42	5° ♒ 46'08			5405 Jul 08 13:33	0° ♍	
	5402 Nov 18 00:54	0° ♓			5405 Aug 02 01:24	0° ♎	
	5402 Dec 13 01:55	0° ♑		asc. node	5405 Aug 05 20:11	4° ♎ 38'19	
	5403 Jan 07 13:31	0° ♒		morning set	5405 Aug 12 23:11	13° ♎ 22'39	
	5403 Feb 03 03:17	0° ♓			5405 Aug 26 12:02	0° ♏	
evening max el	5403 Feb 16 09:31	13° ♓ 58'25	47°08'28	max. Earth dist.	5405 Sep 17 03:01	26° ♏ 37'00	1.73342 AU
asc. node	5403 Feb 19 01:06	16° ♓ 38'19					
	5403 Mar 05 08:25	0° ♋		superior conj	5405 Sep 18 13:27	28° ♏ 23'06	1°20'29
greatest brilliancy	5403 Mar 29 01:54	15° ♋ 25'26	-4.9m	minimum elong	5405 Sep 18 07:39	28° ♏ 05'15	1°20'24
retrograde	5403 Apr 08 04:40	17° ♋ 22'33			5405 Sep 19 20:54	0° ♌	
evening set	5403 Apr 25 21:14	11° ♋ 19'29			5405 Oct 14 04:15	0° ♍	
inferior conj	5403 Apr 29 01:30	9° ♋ 22'20	8°22'03	evening rise	5405 Oct 24 23:44	13° ♍ 21'18	
minimum elong	5403 Apr 29 09:07	9° ♋ 10'30	8°21'09		5405 Nov 07 11:00	0° ♌	

desc. node	5405 Nov 25 11:40	22°♊16'17			5408 Jul 22 08:25	0°♋		
	5405 Dec 01 17:47	0°♌			5408 Aug 16 08:40	0°♍		
	5405 Dec 26 00:50	0°♎		asc. node	5408 Sep 02 08:03	20°♎31'53		
	5406 Jan 19 08:54	0°♏			5408 Sep 10 03:04	0°♐		
	5406 Feb 12 20:41	0°♑			5408 Oct 04 15:45	0°♑		
	5406 Mar 09 18:40	0°♒		morning set	5408 Oct 20 05:43	19°♒11'33		
asc. node	5406 Mar 18 12:52	10°♒19'14			5408 Oct 28 23:29	0°♓		
	5406 Apr 04 16:15	0°♓			5408 Nov 22 03:43	0°♊		
evening max el	5406 Apr 29 09:09	26°♓22'14	46°29'46	max. Earth dist.	5408 Nov 23 14:17	1°♊47'31	1.72332 AU	
	5406 May 03 01:41	0°♋						
greatest brilliancy	5406 Jun 07 06:27	26°♋02'13	-4.8m	superior conj	5408 Nov 26 09:08	5°♊15'32	0°58'18	
retrograde	5406 Jun 18 06:14	28°♋15'10		minimum elong	5408 Nov 26 19:08	5°♊46'37	0°57'58	
evening set	5406 Jul 03 06:06	23°♋51'16			5408 Dec 16 05:41	0°♌		
desc. node	5406 Jul 08 04:23	20°♋55'24		desc. node	5408 Dec 22 23:27	8°♌24'46		
min. Earth dist.	5406 Jul 09 04:47	20°♋17'14	0.28439 AU	evening rise	5409 Jan 04 12:57	24°♌06'22		
inferior conj	5406 Jul 09 13:54	20°♋02'57	-0°20'23		5409 Jan 09 06:08	0°♍		
minimum elong	5406 Jul 09 13:08	20°♋04'08	0°20'10		5409 Feb 02 05:38	0°♏		
morning rise	5406 Jul 15 20:46	16°♋17'15			5409 Feb 26 05:32	0°♑		
direct	5406 Jul 30 21:54	11°♋56'24			5409 Mar 22 08:29	0°♒		
greatest brilliancy	5406 Aug 09 18:39	13°♋41'59	-4.7m	asc. node	5409 Apr 15 00:52	29°♒06'13		
	5406 Sep 04 16:15	0°♎			5409 Apr 15 18:32	0°♓		
morning max el	5406 Sep 17 13:17	11°♎34'49	45°41'45		5409 May 10 17:23	0°♋		
	5406 Oct 05 19:32	0°♏			5409 Jun 05 15:02	0°♌		
asc. node	5406 Oct 29 05:59	25°♏44'55			5409 Jul 03 13:15	0°♍		
	5406 Nov 01 23:34	0°♎		evening max el	5409 Jul 08 22:03	5°♏18'13	45°40'20	
	5406 Nov 27 14:34	0°♐		desc. node	5409 Aug 04 16:12	27°♏34'35		
	5406 Dec 22 09:49	0°♊			5409 Aug 08 16:53	0°♑		
	5407 Jan 15 18:00	0°♌		greatest brilliancy	5409 Aug 16 06:49	3°♑32'07	-4.7m	
	5407 Feb 08 20:02	0°♍		retrograde	5409 Aug 26 20:39	5°♑33'39		
desc. node	5407 Feb 17 21:04	11°♍18'59			5409 Sep 12 23:55	30°♒♏		
	5407 Mar 04 18:45	0°♏		evening set	5409 Sep 13 05:18	29°♏52'04		
morning set	5407 Mar 19 15:07	18°♏38'46		inferior conj	5409 Sep 17 09:31	27°♏18'07	-8°01'45	
	5407 Mar 28 16:05	0°♑		minimum elong	5409 Sep 17 02:46	27°♏28'40	8°01'03	
	5407 Apr 21 13:55	0°♒		min. Earth dist.	5409 Sep 17 08:41	27°♏19'26	0.29148 AU	
				morning rise	5409 Sep 21 00:12	25°♏04'04		
superior conj	5407 Apr 29 04:32	9°♒31'29	-1°20'46	direct	5409 Oct 08 23:28	18°♏59'13		
minimum elong	5407 Apr 29 12:33	9°♒56'31	1°20'39	greatest brilliancy	5409 Oct 19 13:02	21°♏00'24	-4.8m	
max. Earth dist.	5407 May 03 01:01	14°♒20'34	1.71758 AU		5409 Nov 04 13:13	0°♑		
	5407 May 15 14:03	0°♓		asc. node	5409 Nov 25 17:40	18°♑16'20		
evening rise	5407 Jun 07 18:42	28°♓48'46		morning max el	5409 Nov 27 10:26	19°♑55'51	46°07'26	
	5407 Jun 08 17:42	0°♋			5409 Dec 07 08:04	0°♒		
asc. node	5407 Jun 10 22:35	2°♋43'36			5410 Jan 03 10:44	0°♓		
	5407 Jul 03 01:29	0°♌			5410 Jan 28 20:49	0°♋		
	5407 Jul 27 13:53	0°♍			5410 Feb 22 13:00	0°♎		
	5407 Aug 21 08:16	0°♎		desc. node	5410 Mar 17 09:01	28°♎10'08		
	5407 Sep 15 11:22	0°♏			5410 Mar 18 20:29	0°♏		
desc. node	5407 Sep 30 13:51	17°♏44'16			5410 Apr 11 23:55	0°♑		
	5407 Oct 11 03:47	0°♊			5410 May 06 02:15	0°♒		
	5407 Nov 06 18:42	0°♌			5410 May 30 05:31	0°♓		
evening max el	5407 Dec 03 05:08	27°♌43'19	46°35'44	morning set	5410 Jun 02 04:15	3°♓39'24		
	5407 Dec 05 13:06	0°♍			5410 Jun 23 10:46	0°♋		
greatest brilliancy	5408 Jan 12 10:24	27°♍55'23	-4.9m	asc. node	5410 Jul 08 10:18	18°♋30'10		
asc. node	5408 Jan 21 15:18	29°♍44'33						
retrograde	5408 Jan 22 06:26	29°♍45'01		superior conj	5410 Jul 10 04:55	20°♋41'36	0°04'18	
evening set	5408 Feb 06 02:35	25°♍25'35		minimum elong	5410 Jul 10 03:57	20°♋38'40	0°04'13	
inferior conj	5408 Feb 11 21:03	22°♍01'58	5°12'19	behind sun begin	5410 Jul 09 05:18	19°♋28'45		
minimum elong	5408 Feb 11 10:53	22°♍17'31	5°09'37	behind sun end	5410 Jul 11 02:37	21°♋48'34		
min. Earth dist.	5408 Feb 11 13:39	22°♍13'17	0.26702 AU	max. Earth dist.	5410 Jul 11 23:42	22°♋53'34	1.73130 AU	
morning rise	5408 Feb 16 19:07	19°♍06'04			5410 Jul 17 18:02	0°♌		
direct	5408 Mar 03 08:33	14°♍19'51			5410 Aug 11 02:52	0°♍		
greatest brilliancy	5408 Mar 13 03:17	16°♍08'09	-4.9m	evening rise	5410 Aug 15 23:34	5°♍58'44		
	5408 Apr 04 07:59	0°♏			5410 Sep 04 13:09	0°♎		
morning max el	5408 Apr 22 16:30	16°♏56'51	46°50'38		5410 Sep 29 01:34	0°♏		
	5408 May 05 06:32	0°♑			5410 Oct 23 17:14	0°♊		
desc. node	5408 May 12 06:51	7°♑35'10		desc. node	5410 Oct 28 01:47	5°♊16'46		
	5408 Jun 01 06:06	0°♒			5410 Nov 17 13:13	0°♌		
	5408 Jun 27 01:16	0°♓			5410 Dec 12 15:14	0°♍		

	5411 Jan 07 04:35	0° H			5413 Jun 13 12:30	0° II		
	5411 Feb 02 22:11	0° Y			5413 Jul 08 00:28	0° G		
evening max el	5411 Feb 14 00:35	11° Y 38'04	47°08'40		5413 Aug 01 12:05	0° Ω		
asc. node	5411 Feb 18 03:07	15° Y 44'29		asc. node	5413 Aug 04 22:13	4° Ω 11'51		
	5411 Mar 05 18:35	0° B		morning set	5413 Aug 10 16:44	11° Ω 16'40		
greatest brilliancy	5411 Mar 26 15:35	13° B 02'22	-4.9m		5413 Aug 25 22:36	0° M		
retrograde	5411 Apr 05 19:20	14° B 59'58		max. Earth dist.	5413 Sep 14 20:33	24° M 30'45	1.73360 AU	
evening set	5411 Apr 23 13:45	8° B 53'07						
inferior conj	5411 Apr 26 15:15	7° B 00'05	8°30'36	superior conj	5413 Sep 16 07:34	26° M 18'38	1°19'21	
minimum elong	5411 Apr 26 22:13	6° B 49'17	8°29'51	minimum elong	5413 Sep 16 01:17	25° M 59'16	1°19'14	
min. Earth dist.	5411 Apr 26 09:45	7° B 08'37	0.27500 AU		5413 Sep 19 07:25	0° L		
morning rise	5411 Apr 30 06:52	4° B 46'29			5413 Oct 13 14:51	0° M		
	5411 May 10 21:13	30° R Y		evening rise	5413 Oct 22 16:25	11° M 11'39		
direct	5411 May 17 09:36	29° Y 07'52			5413 Nov 06 21:47	0° X		
	5411 May 24 03:01	0° B		desc. node	5413 Nov 24 13:34	21° X 48'17		
greatest brilliancy	5411 May 26 20:45	0° B 48'43	-4.8m		5413 Dec 01 04:51	0° Z		
desc. node	5411 Jun 09 18:29	8° B 04'28			5413 Dec 25 12:16	0° \approx		
	5411 Jul 05 15:45	0° II			5414 Jan 18 20:48	0° H		
morning max el	5411 Jul 05 22:14	0° II 15'44	46°06'19		5414 Feb 12 09:15	0° Y		
	5411 Aug 03 11:11	0° G			5414 Mar 09 08:23	0° B		
	5411 Aug 30 03:44	0° Ω		asc. node	5414 Mar 17 15:00	9° B 43'38		
	5411 Sep 24 20:48	0° M			5414 Apr 04 08:25	0° II		
asc. node	5411 Sep 30 20:04	7° M 05'03		evening max el	5414 Apr 26 23:16	24° II 03'44	46°31'48	
	5411 Oct 19 22:27	0° L			5414 May 03 01:17	0° G		
	5411 Nov 13 12:52	0° M		greatest brilliancy	5414 Jun 04 23:45	23° G 51'41	-4.8m	
	5411 Dec 07 19:30	0° X		retrograde	5414 Jun 15 21:50	26° G 03'40		
morning set	5411 Dec 30 23:02	28° X 50'41		evening set	5414 Jun 30 22:42	21° G 39'00		
	5411 Dec 31 21:13	0° Z		inferior conj	5414 Jul 07 05:46	17° G 51'57	0°00'19	
desc. node	5412 Jan 20 11:13	24° Z 31'25		minimum elong	5414 Jul 07 05:46	17° G 51'56	0°00'18	
	5412 Jan 24 19:57	0° \approx		transit middle	5414 Jul 07 05:46	17° G 51'56	0°00'18	
max. Earth dist.	5412 Feb 08 05:44	18° \approx 05'42	1.71214 AU	transit begin	5414 Jul 07 01:43	17° G 58'17		
				transit end	5414 Jul 07 09:49	17° G 45'35		
superior conj	5412 Feb 09 09:30	19° \approx 32'58	-0°45'52	min. Earth dist.	5414 Jul 06 21:24	18° G 05'04	0.28403 AU	
minimum elong	5412 Feb 08 23:00	18° \approx 59'59	0°45'24	desc. node	5414 Jul 07 06:17	17° G 51'08		
	5412 Feb 17 16:57	0° H		morning rise	5414 Jul 13 13:21	14° G 05'04		
	5412 Mar 12 13:25	0° Y		direct	5414 Jul 28 12:50	9° G 45'50		
evening rise	5412 Mar 21 06:32	10° Y 56'57		greatest brilliancy	5414 Aug 07 10:34	11° G 31'54	-4.7m	
	5412 Apr 05 11:11	0° B			5414 Sep 04 20:58	0° Ω		
	5412 Apr 29 12:31	0° II		morning max el	5414 Sep 15 03:51	9° Ω 22'12	45°41'42	
asc. node	5412 May 12 12:44	16° II 06'08			5414 Oct 05 12:23	0° M		
	5412 May 23 19:46	0° G		asc. node	5414 Oct 28 07:55	25° M 10'48		
	5412 Jun 17 11:21	0° Ω			5414 Nov 01 13:12	0° L		
	5412 Jul 12 14:55	0° M			5414 Nov 27 02:49	0° M		
	5412 Aug 07 14:04	0° L			5414 Dec 21 21:24	0° X		
desc. node	5412 Sep 01 04:03	26° L 53'01			5415 Jan 15 05:15	0° Z		
	5412 Sep 04 03:46	0° M			5415 Feb 08 07:05	0° \approx		
evening max el	5412 Sep 18 05:39	14° M 03'19	45°41'53	desc. node	5415 Feb 16 23:07	10° \approx 50'57		
	5412 Oct 06 12:27	0° X			5415 Mar 04 05:40	0° H		
greatest brilliancy	5412 Oct 27 15:56	12° X 12'26	-4.8m	morning set	5415 Mar 17 00:59	16° H 04'53		
retrograde	5412 Nov 05 22:35	13° X 45'54			5415 Mar 28 02:54	0° Y		
evening set	5412 Nov 22 06:20	8° X 42'25			5415 Apr 21 00:40	0° B		
inferior conj	5412 Nov 26 23:16	5° X 52'18	-5°58'37					
minimum elong	5412 Nov 27 09:29	5° X 36'28	5°56'18	superior conj	5415 Apr 26 16:43	7° B 05'56	-1°22'09	
min. Earth dist.	5412 Nov 27 22:04	5° X 17'01	0.27863 AU	minimum elong	5415 Apr 27 00:01	7° B 28'46	1°22'02	
morning rise	5412 Dec 02 12:05	2° X 33'00		max. Earth dist.	5415 Apr 30 08:49	11° B 41'29	1.71704 AU	
	5412 Dec 07 16:21	30° R M			5415 May 15 00:43	0° II		
direct	5412 Dec 18 03:08	27° M 48'13		evening rise	5415 Jun 05 09:03	26° II 31'40		
asc. node	5412 Dec 23 05:26	28° M 18'35			5415 Jun 08 04:21	0° G		
	5412 Dec 28 23:16	0° X		asc. node	5415 Jun 10 00:31	2° G 16'41		
greatest brilliancy	5412 Dec 29 06:24	0° X 07'00	-4.9m		5415 Jul 02 12:10	0° Ω		
	5413 Feb 05 20:53	0° Z			5415 Jul 27 00:47	0° M		
morning max el	5413 Feb 06 15:48	0° Z 47'48	46°50'48		5415 Aug 20 19:37	0° L		
	5413 Mar 05 14:54	0° \approx			5415 Sep 14 23:32	0° M		
	5413 Mar 31 09:00	0° H		desc. node	5415 Sep 29 15:51	17° M 12'34		
desc. node	5413 Apr 13 21:00	16° H 08'41			5415 Oct 10 17:25	0° X		
	5413 Apr 25 08:28	0° Y			5415 Nov 06 11:15	0° Z		
	5413 May 19 23:56	0° B		evening max el	5415 Nov 30 18:01	25° Z 20'13	46°33'48	

	5415 Dec 05 13:49	0°♊			5418 Jun 22 21:25	0°♎	
greatest brilliancy	5416 Jan 09 23:00	25°♊28'34 -4.9m					
retrograde	5416 Jan 19 19:01	27°♊18'20	superior conj	5418 Jul 07 21:05	18°♎30'41 0°00'53		
asc. node	5416 Jan 20 17:20	27°♊17'17	minimum elong	5418 Jul 07 20:54	18°♎30'07 0°00'52		
evening set	5416 Feb 03 12:31	23°♊01'53	behind sun begin	5418 Jul 06 21:35	17°♎18'11		
inferior conj	5416 Feb 09 09:29	19°♊35'15 4°51'51	behind sun end	5418 Jul 08 20:13	19°♎42'04		
minimum elong	5416 Feb 08 23:43	19°♊50'10 4°49'09	asc. node	5418 Jul 07 12:23	18°♎03'50		
min. Earth dist.	5416 Feb 09 02:58	19°♊45'12 0.26702 AU	max. Earth dist.	5418 Jul 09 20:32	20°♎57'06 1.73095 AU		
morning rise	5416 Feb 14 10:50	16°♊35'07		5418 Jul 17 04:37	0°♏		
direct	5416 Feb 29 21:02	11°♊52'43		5418 Aug 10 13:27	0°♐		
greatest brilliancy	5416 Mar 10 17:19	13°♊42'43 -4.9m	evening rise	5418 Aug 13 17:45	3°♐54'34		
	5416 Apr 04 17:54	0°♋		5418 Sep 03 23:51	0°♑		
morning max el	5416 Apr 20 06:23	14°♋34'11 46°51'45		5418 Sep 28 12:31	0°♒		
	5416 May 05 01:16	0°♑		5418 Oct 23 04:37	0°♓		
desc. node	5416 May 11 08:45	6°♑52'42	desc. node	5418 Oct 27 03:44	4°♓47'53		
	5416 May 31 20:51	0°♒		5418 Nov 17 01:19	0°♔		
	5416 Jun 26 14:10	0°♓		5418 Dec 12 04:27	0°♕		
	5416 Jul 21 20:15	0°♎		5419 Jan 06 19:43	0°♋		
	5416 Aug 15 19:50	0°♏		5419 Feb 02 17:34	0°♑		
asc. node	5416 Sep 01 10:10	20°♏05'16	evening max el	5419 Feb 11 15:33	9°♑17'24 47°08'36		
	5416 Sep 09 13:49	0°♐	asc. node	5419 Feb 17 05:13	14°♑49'46		
	5416 Oct 04 02:18	0°♑		5419 Mar 06 08:20	0°♒		
morning set	5416 Oct 17 22:53	17°♑03'55	greatest brilliancy	5419 Mar 24 05:39	10°♒39'20 -4.9m		
	5416 Oct 28 10:01	0°♒	retrograde	5419 Apr 03 09:27	12°♒36'33		
max. Earth dist.	5416 Nov 21 07:59	29°♒40'26 1.72379 AU	evening set	5419 Apr 21 05:55	6°♒26'32		
	5416 Nov 21 14:17	0°♓	inferior conj	5419 Apr 24 04:48	4°♒37'18 8°38'20		
			minimum elong	5419 Apr 24 11:03	4°♒27'36 8°37'44		
superior conj	5416 Nov 24 00:25	3°♓00'47 1°00'48	min. Earth dist.	5419 Apr 23 22:34	4°♒46'59 0.27467 AU		
minimum elong	5416 Nov 24 10:24	3°♓31'50 1°00'29	morning rise	5419 Apr 27 16:22	2°♓29'36		
	5416 Dec 15 16:21	0°♔		5419 May 02 05:56	30°♒♑		
desc. node	5416 Dec 22 01:27	7°♔57'34	direct	5419 May 14 23:19	26°♑45'55		
evening rise	5417 Jan 02 01:47	21°♔42'52	greatest brilliancy	5419 May 24 08:46	28°♑25'28 -4.8m		
	5417 Jan 08 16:56	0°♕		5419 May 28 07:48	0°♒		
	5417 Feb 01 16:37	0°♋	desc. node	5419 Jun 08 20:30	6°♒46'30		
	5417 Feb 25 16:45	0°♑	morning max el	5419 Jul 03 12:07	27°♒57'11 46°07'45		
	5417 Mar 21 20:01	0°♒		5419 Jul 05 14:17	0°♓		
asc. node	5417 Apr 14 02:48	28°♒35'33		5419 Aug 03 03:00	0°♎		
	5417 Apr 15 06:33	0°♓		5419 Aug 29 17:03	0°♏		
	5417 May 10 06:20	0°♎		5419 Sep 24 08:51	0°♐		
	5417 Jun 05 05:54	0°♏	asc. node	5419 Sep 29 21:59	6°♐35'27		
	5417 Jul 03 09:23	0°♐		5419 Oct 19 09:49	0°♑		
evening max el	5417 Jul 06 14:34	3°♐09'29 45°41'35		5419 Nov 12 23:52	0°♒		
desc. node	5417 Aug 03 18:20	26°♐19'45		5419 Dec 07 06:19	0°♓		
	5417 Aug 10 13:28	0°♑	morning set	5419 Dec 28 12:33	26°♓29'19		
greatest brilliancy	5417 Aug 13 21:17	1°♑22'31 -4.7m		5419 Dec 31 08:00	0°♔		
retrograde	5417 Aug 24 13:34	3°♑25'53	desc. node	5420 Jan 19 13:19	24°♔04'05		
	5417 Sep 06 18:48	30°♒♐		5420 Jan 24 06:47	0°♕		
evening set	5417 Sep 10 18:43	27°♐48'26	max. Earth dist.	5420 Feb 05 10:09	15°♕14'44 1.71238 AU		
inferior conj	5417 Sep 15 01:56	25°♐09'53 -7°54'23					
minimum elong	5417 Sep 14 18:40	25°♐21'16 7°53'33	superior conj	5420 Feb 06 20:23	17°♕02'16 -0°42'27		
min. Earth dist.	5417 Sep 14 23:32	25°♐13'38 0.29150 AU	minimum elong	5420 Feb 06 10:27	16°♕31'05 0°42'00		
morning rise	5417 Sep 18 18:38	22°♐52'56		5420 Feb 17 03:50	0°♋		
direct	5417 Oct 06 16:27	16°♐51'16		5420 Mar 12 00:21	0°♑		
greatest brilliancy	5417 Oct 17 03:53	18°♐50'52 -4.7m	evening rise	5420 Mar 18 16:51	8°♑24'09		
	5417 Nov 05 02:36	0°♑		5420 Apr 04 22:11	0°♒		
asc. node	5417 Nov 24 19:39	17°♑28'03		5420 Apr 28 23:38	0°♓		
morning max el	5417 Nov 25 02:42	17°♑45'20 46°05'47	asc. node	5420 May 11 14:39	15°♓37'26		
	5417 Dec 07 02:19	0°♒		5420 May 23 07:08	0°♎		
	5418 Jan 03 01:07	0°♓		5420 Jun 16 23:10	0°♏		
	5418 Jan 28 09:39	0°♔		5420 Jul 12 03:36	0°♐		
	5418 Feb 22 01:02	0°♕		5420 Aug 07 04:28	0°♑		
desc. node	5418 Mar 16 11:06	27°♕40'41	desc. node	5420 Aug 31 06:03	26°♑11'32		
	5418 Mar 18 08:02	0°♋		5420 Sep 03 22:24	0°♒		
	5418 Apr 11 11:09	0°♑	evening max el	5420 Sep 15 19:20	11°♒46'54 45°40'51		
	5418 May 05 13:14	0°♒		5420 Oct 07 02:50	0°♓		
	5418 May 29 16:18	0°♓	greatest brilliancy	5420 Oct 25 06:28	9°♓57'11 -4.8m		
morning set	5418 May 30 18:49	1°♓22'16	retrograde	5420 Nov 03 12:02	11°♓30'01		

evening set	5420 Nov 19 23:43	6°♊21'52		minimum elong	5423 Apr 24 11:25	4°♎59'58	1°23'16
inferior conj	5420 Nov 24 13:52	3°♊35'43	-6°13'55	max. Earth dist.	5423 Apr 27 16:34	9°♎01'22	1.71663 AU
minimum elong	5420 Nov 25 00:07	3°♊19'51	6°11'41		5423 May 14 11:41	0°♐	
min. Earth dist.	5420 Nov 25 13:06	2°♊59'44	0.27928 AU	evening rise	5423 Jun 02 23:06	24°♐12'31	
morning rise	5420 Nov 29 23:54	0°♊19'57			5423 Jun 07 15:20	0°♑	
	5420 Nov 30 14:11	30°♋		asc. node	5423 Jun 09 02:35	1°♑49'04	
direct	5420 Dec 15 17:44	25°♋30'36			5423 Jul 01 23:16	0°♒	
asc. node	5420 Dec 22 07:28	26°♋20'20			5423 Jul 26 12:08	0°♓	
greatest brilliancy	5420 Dec 26 22:16	27°♋49'53	-4.8m		5423 Aug 20 07:27	0°♈	
	5420 Dec 31 14:37	0°♋			5423 Sep 14 12:13	0°♉	
morning max el	5421 Feb 04 05:12	28°♋24'20	46°49'40	desc. node	5423 Sep 28 17:47	16°♉39'15	
	5421 Feb 05 18:47	0°♌			5423 Oct 10 07:38	0°♊	
	5421 Mar 05 06:54	0°♍			5423 Nov 06 04:36	0°♋	
	5421 Mar 30 22:47	0°♌		evening max el	5423 Nov 28 07:50	22°♋58'31	46°31'56
desc. node	5421 Apr 12 22:54	15°♌34'58			5423 Dec 05 16:21	0°♌	
	5421 Apr 24 21:07	0°♍		greatest brilliancy	5424 Jan 07 11:24	23°♌00'45	-4.9m
	5421 May 19 11:52	0°♎		retrograde	5424 Jan 17 08:07	24°♌50'49	
	5421 Jun 12 23:57	0°♐		asc. node	5424 Jan 19 19:25	24°♌43'19	
	5421 Jul 07 11:34	0°♑		evening set	5424 Jan 31 22:48	20°♌37'11	
	5421 Jul 31 22:58	0°♒		inferior conj	5424 Feb 06 21:55	17°♌07'46	4°30'43
asc. node	5421 Aug 04 00:15	3°♒44'49		minimum elong	5424 Feb 06 12:39	17°♌21'54	4°28'06
morning set	5421 Aug 08 09:50	9°♒08'43		min. Earth dist.	5424 Feb 06 16:06	17°♌16'38	0.26697 AU
	5421 Aug 25 09:20	0°♓		morning rise	5424 Feb 12 02:26	14°♌03'35	
max. Earth dist.	5421 Sep 12 14:36	22°♓25'32	1.73376 AU	direct	5424 Feb 27 10:02	9°♌25'03	
				greatest brilliancy	5424 Mar 08 06:45	11°♌16'01	-4.9m
superior conj	5421 Sep 14 01:30	24°♓13'04	1°18'07		5424 Apr 05 01:21	0°♌	
minimum elong	5421 Sep 13 18:44	23°♓52'12	1°17'59	morning max el	5424 Apr 17 20:42	12°♌12'09	46°52'48
	5421 Sep 18 18:07	0°♍			5424 May 04 19:44	0°♍	
	5421 Oct 13 01:38	0°♎		desc. node	5424 May 10 10:51	6°♍10'41	
evening rise	5421 Oct 20 09:14	9°♎01'58			5424 May 31 11:40	0°♎	
	5421 Nov 06 08:44	0°♏			5424 Jun 26 03:18	0°♐	
desc. node	5421 Nov 23 15:35	21°♏20'12			5424 Jul 21 08:26	0°♑	
	5421 Nov 30 16:03	0°♐			5424 Aug 15 07:24	0°♒	
	5421 Dec 24 23:49	0°♑		asc. node	5424 Aug 31 12:05	19°♒36'43	
	5422 Jan 18 08:48	0°♋			5424 Sep 09 01:01	0°♓	
	5422 Feb 11 21:59	0°♌			5424 Oct 03 13:18	0°♈	
	5422 Mar 08 22:25	0°♎		morning set	5424 Oct 15 15:48	14°♈54'18	
asc. node	5422 Mar 16 16:52	9°♎06'28			5424 Oct 27 20:56	0°♉	
	5422 Apr 04 01:10	0°♐		max. Earth dist.	5424 Nov 19 00:33	27°♉28'42	1.72423 AU
evening max el	5422 Apr 24 12:55	21°♐42'55	46°33'41		5424 Nov 21 01:14	0°♊	
	5422 May 03 02:36	0°♑					
greatest brilliancy	5422 Jun 02 16:25	21°♑38'25	-4.8m	superior conj	5424 Nov 21 15:35	0°♊44'37	1°03'13
retrograde	5422 Jun 13 13:26	23°♑49'58		minimum elong	5424 Nov 22 01:29	1°♊15'24	1°02'54
evening set	5422 Jun 28 15:06	19°♑24'01			5424 Dec 15 03:24	0°♋	
inferior conj	5422 Jul 04 21:16	15°♑38'37	0°21'24	desc. node	5424 Dec 21 03:32	7°♋29'26	
minimum elong	5422 Jul 04 22:04	15°♑37'22	0°21'08	evening rise	5424 Dec 30 14:37	19°♋18'10	
min. Earth dist.	5422 Jul 04 13:37	15°♑50'36	0.28369 AU		5425 Jan 08 04:08	0°♌	
desc. node	5422 Jul 06 08:24	14°♑43'46			5425 Feb 01 03:59	0°♍	
morning rise	5422 Jul 11 05:28	11°♑50'58			5425 Feb 25 04:19	0°♎	
direct	5422 Jul 26 03:19	7°♑32'48			5425 Mar 21 07:52	0°♏	
greatest brilliancy	5422 Aug 05 02:14	9°♑19'45	-4.7m	asc. node	5425 Apr 13 04:49	28°♏04'16	
	5422 Sep 05 00:29	0°♒			5425 Apr 14 18:54	0°♐	
morning max el	5422 Sep 12 18:48	7°♒09'18	45°41'48		5425 May 09 19:37	0°♑	
	5422 Oct 05 05:16	0°♓			5425 Jun 04 21:17	0°♒	
asc. node	5422 Oct 27 09:53	24°♓36'04			5425 Jul 03 06:41	0°♓	
	5422 Nov 01 03:01	0°♈		evening max el	5425 Jul 04 07:14	0°♓59'50	45°42'34
	5422 Nov 26 15:18	0°♉		desc. node	5425 Aug 02 20:19	25°♓00'46	
	5422 Dec 21 09:14	0°♊		greatest brilliancy	5425 Aug 11 12:19	29°♓11'50	-4.7m
	5423 Jan 14 16:43	0°♋			5425 Aug 13 22:25	0°♈	
	5423 Feb 07 18:20	0°♌		retrograde	5425 Aug 22 06:00	1°♈16'04	
desc. node	5423 Feb 16 01:09	10°♌22'17			5425 Aug 30 05:26	30°♉	
	5423 Mar 03 16:46	0°♍		evening set	5425 Sep 08 07:55	25°♉43'14	
morning set	5423 Mar 14 11:17	13°♍31'43		inferior conj	5425 Sep 12 18:12	22°♉59'50	-7°46'11
	5423 Mar 27 13:55	0°♎		minimum elong	5425 Sep 12 10:27	23°♉11'58	7°45'14
	5423 Apr 20 11:38	0°♏		min. Earth dist.	5425 Sep 12 14:33	23°♉05'33	0.29151 AU
				morning rise	5425 Sep 16 13:02	20°♉39'34	
superior conj	5423 Apr 24 04:55	4°♏39'36	-1°23'20	direct	5425 Oct 04 09:18	14°♉41'36	

greatest brilliancy	5425 Oct 14 18:26	16° \cap 39'12	-4.7m	evening rise	5428 Mar 16 03:08	5° Υ 50'40	
	5425 Nov 05 13:15	0° $\underline{\cap}$			5428 Apr 04 09:23	0° \mathcal{B}	
morning max el	5425 Nov 22 18:09	15° $\underline{\cap}$ 31'28	46°04'12		5428 Apr 28 10:58	0° Π	
asc. node	5425 Nov 23 21:45	16° $\underline{\cap}$ 39'23		asc. node	5428 May 10 16:46	15° Π 08'43	
	5425 Dec 06 20:37	0° \cap			5428 May 22 18:42	0° \mathcal{C}	
	5426 Jan 02 15:44	0° \mathcal{A}			5428 Jun 16 11:10	0° Ω	
	5426 Jan 27 22:45	0° \mathcal{Z}			5428 Jul 11 16:26	0° \cap	
	5426 Feb 21 13:21	0° \approx			5428 Aug 06 19:06	0° $\underline{\cap}$	
desc. node	5426 Mar 15 12:57	27° \approx 09'33		desc. node	5428 Aug 30 07:59	25° $\underline{\cap}$ 29'05	
	5426 Mar 17 19:53	0° \mathcal{H}			5428 Sep 03 17:38	0° \cap	
	5426 Apr 10 22:40	0° Υ		evening max el	5428 Sep 13 08:35	9° \cap 29'15	45°39'43
	5426 May 05 00:29	0° \mathcal{B}			5428 Oct 07 22:27	0° \mathcal{A}	
morning set	5426 May 28 09:39	29° \mathcal{B} 05'09		greatest brilliancy	5428 Oct 22 20:30	7° \mathcal{A} 40'54	-4.8m
	5426 May 29 03:20	0° Π		retrograde	5428 Nov 01 01:41	9° \mathcal{A} 13'46	
	5426 Jun 22 08:18	0° \mathcal{C}		evening set	5428 Nov 17 17:03	4° \mathcal{A} 00'31	
				inferior conj	5428 Nov 22 04:26	1° \mathcal{A} 18'29	-6°28'28
superior conj	5426 Jul 05 13:29	16° \mathcal{C} 19'43	-0°02'32	minimum elong	5428 Nov 22 14:38	1° \mathcal{A} 02'39	6°26'20
minimum elong	5426 Jul 05 14:02	16° \mathcal{C} 21'25	0°02'31	min. Earth dist.	5428 Nov 23 04:03	0° \mathcal{A} 41'53	0.28000 AU
behind sun begin	5426 Jul 04 14:49	15° \mathcal{C} 09'43			5428 Nov 24 07:14	30° $\mathcal{R}\cap$	
behind sun end	5426 Jul 06 13:16	17° \mathcal{C} 33'05		morning rise	5428 Nov 27 11:36	28° \cap 06'36	
asc. node	5426 Jul 06 14:25	17° \mathcal{C} 36'38		direct	5428 Dec 13 08:17	23° \cap 12'04	
max. Earth dist.	5426 Jul 07 18:24	19° \mathcal{C} 02'59	1.73061 AU	asc. node	5428 Dec 21 09:29	24° \cap 25'42	
	5426 Jul 16 15:27	0° Ω		greatest brilliancy	5428 Dec 24 14:24	25° \cap 32'27	-4.8m
	5426 Aug 10 00:20	0° \cap			5429 Jan 02 06:26	0° \mathcal{A}	
evening rise	5426 Aug 11 11:58	1° \cap 49'32		morning max el	5429 Feb 01 19:30	26° \mathcal{A} 02'25	46°48'38
	5426 Sep 03 10:53	0° $\underline{\cap}$			5429 Feb 05 16:13	0° \mathcal{Z}	
	5426 Sep 27 23:51	0° \cap			5429 Mar 04 22:52	0° \approx	
	5426 Oct 22 16:26	0° \mathcal{A}			5429 Mar 30 12:35	0° \mathcal{H}	
desc. node	5426 Oct 26 05:45	4° \mathcal{A} 17'59		desc. node	5429 Apr 12 01:02	15° \mathcal{H} 01'45	
	5426 Nov 16 13:51	0° \mathcal{Z}			5429 Apr 24 09:47	0° Υ	
	5426 Dec 11 18:09	0° \approx			5429 May 18 23:50	0° \mathcal{B}	
	5427 Jan 06 11:26	0° \mathcal{H}			5429 Jun 12 11:26	0° Π	
	5427 Feb 02 13:55	0° Υ			5429 Jul 06 22:43	0° \mathcal{C}	
evening max el	5427 Feb 09 05:42	6° Υ 53'35	47°08'27		5429 Jul 31 09:51	0° Ω	
asc. node	5427 Feb 16 07:07	13° Υ 52'25		asc. node	5429 Aug 03 02:12	3° Ω 17'29	
	5427 Mar 07 03:15	0° \mathcal{B}		morning set	5429 Aug 06 03:17	7° Ω 01'45	
greatest brilliancy	5427 Mar 21 20:24	8° \mathcal{B} 16'05	-4.9m		5429 Aug 24 20:03	0° \cap	
retrograde	5427 Mar 31 23:09	10° \mathcal{B} 12'13		max. Earth dist.	5429 Sep 10 11:15	20° \cap 28'26	1.73392 AU
evening set	5427 Apr 18 21:51	3° \mathcal{B} 59'38					
inferior conj	5427 Apr 21 18:23	2° \mathcal{B} 13'49	8°45'08	superior conj	5429 Sep 11 19:50	22° \cap 08'46	1°16'46
minimum elong	5427 Apr 21 23:52	2° \mathcal{B} 05'18	8°44'41	minimum elong	5429 Sep 11 12:37	21° \cap 46'33	1°16'37
min. Earth dist.	5427 Apr 21 11:45	2° \mathcal{B} 24'09	0.27431 AU		5429 Sep 18 04:48	0° $\underline{\cap}$	
morning rise	5427 Apr 25 02:03	0° \mathcal{B} 11'46			5429 Oct 12 12:24	0° \cap	
	5427 Apr 25 09:59	30° $\mathcal{R}\Upsilon$		evening rise	5429 Oct 18 02:32	6° \cap 53'51	
direct	5427 May 12 12:30	24° Υ 23'16			5429 Nov 05 19:43	0° \mathcal{A}	
greatest brilliancy	5427 May 21 21:16	26° Υ 01'58	-4.8m	desc. node	5429 Nov 22 17:43	20° \mathcal{A} 52'17	
	5427 May 30 12:19	0° \mathcal{B}			5429 Nov 30 03:21	0° \mathcal{Z}	
desc. node	5427 Jun 07 22:33	5° \mathcal{B} 30'25			5429 Dec 24 11:29	0° \approx	
morning max el	5427 Jul 01 01:14	25° \mathcal{B} 36'04	46°09'22		5430 Jan 17 20:58	0° \mathcal{H}	
	5427 Jul 05 12:08	0° Π			5430 Feb 11 10:55	0° Υ	
	5427 Aug 02 18:43	0° \mathcal{C}			5430 Mar 08 12:39	0° \mathcal{B}	
	5427 Aug 29 06:25	0° Ω		asc. node	5430 Mar 15 18:54	8° \mathcal{B} 29'21	
	5427 Sep 23 21:04	0° \cap			5430 Apr 03 18:16	0° Π	
asc. node	5427 Sep 28 23:58	6° \cap 05'30		evening max el	5430 Apr 22 03:14	19° Π 23'55	46°35'45
	5427 Oct 18 21:25	0° $\underline{\cap}$			5430 May 03 05:16	0° \mathcal{C}	
	5427 Nov 12 11:08	0° \cap		greatest brilliancy	5430 May 31 08:40	19° \mathcal{C} 24'56	-4.8m
	5427 Dec 06 17:26	0° \mathcal{A}		retrograde	5430 Jun 11 05:37	21° \mathcal{C} 36'46	
morning set	5427 Dec 26 01:55	24° \mathcal{A} 06'34		evening set	5430 Jun 26 07:45	17° \mathcal{C} 09'10	
	5427 Dec 30 19:04	0° \mathcal{Z}		min. Earth dist.	5430 Jul 02 05:37	13° \mathcal{C} 36'54	0.28333 AU
desc. node	5428 Jan 18 15:17	23° \mathcal{Z} 35'32		inferior conj	5430 Jul 02 12:51	13° \mathcal{C} 25'36	0°42'26
	5428 Jan 23 17:51	0° \approx		minimum elong	5430 Jul 02 14:26	13° \mathcal{C} 23'08	0°41'55
max. Earth dist.	5428 Feb 02 14:49	12° \approx 23'53	1.71261 AU	desc. node	5430 Jul 05 10:24	11° \mathcal{C} 37'59	
				morning rise	5430 Jul 08 21:33	9° \mathcal{C} 37'38	
superior conj	5428 Feb 04 07:09	14° \approx 30'31	-0°38'56	direct	5430 Jul 23 18:09	5° \mathcal{C} 20'05	
minimum elong	5428 Feb 03 21:51	14° \approx 01'21	0°38'31	greatest brilliancy	5430 Aug 02 17:35	7° \mathcal{C} 07'43	-4.7m
	5428 Feb 16 14:56	0° \mathcal{H}			5430 Sep 05 02:13	0° Ω	
	5428 Mar 11 11:30	0° Υ		morning max el	5430 Sep 10 10:53	4° Ω 59'42	45°42'04

	5430 Oct 04 21:36	0° \mathbb{M}			5433 Jun 04 12:42	0° \mathcal{O}	
asc. node	5430 Oct 26 12:01	24° \mathbb{M} 02'35		evening max el	5433 Jul 01 23:26	28° \mathcal{O} 49'44	45°43'46
	5430 Oct 31 16:30	0° \mathcal{L}			5433 Jul 03 04:29	0° \mathbb{M}	
	5430 Nov 26 03:33	0° \mathbb{M}		desc. node	5433 Aug 01 22:15	23° \mathbb{M} 40'10	
	5430 Dec 20 20:54	0° \mathcal{X}		greatest brilliancy	5433 Aug 09 04:02	27° \mathbb{M} 02'59	-4.7m
	5431 Jan 14 04:05	0° \mathcal{Z}		retrograde	5433 Aug 19 22:04	29° \mathbb{M} 07'25	
	5431 Feb 07 05:31	0° \approx		evening set	5433 Sep 05 21:12	23° \mathbb{M} 39'24	
desc. node	5431 Feb 15 03:07	9° \approx 53'27		inferior conj	5433 Sep 10 10:33	20° \mathbb{M} 51'11	-7°37'26
	5431 Mar 03 03:50	0° \mathcal{H}		minimum elong	5433 Sep 10 02:22	21° \mathbb{M} 04'03	7°36'21
morning set	5431 Mar 11 21:10	10° \mathcal{H} 57'16		min. Earth dist.	5433 Sep 10 06:01	20° \mathbb{M} 58'19	0.29145 AU
	5431 Mar 27 00:54	0° \mathcal{Y}		morning rise	5433 Sep 14 07:36	18° \mathbb{M} 27'22	
	5431 Apr 19 22:33	0° \mathcal{B}		direct	5433 Oct 02 01:51	12° \mathbb{M} 33'20	
				greatest brilliancy	5433 Oct 12 09:26	14° \mathbb{M} 29'14	-4.7m
superior conj	5431 Apr 21 16:36	2° \mathcal{B} 11'45	-1°24'23		5433 Nov 05 20:29	0° \mathcal{L}	
minimum elong	5431 Apr 21 22:16	2° \mathcal{B} 29'30	1°24'21	morning max el	5433 Nov 20 08:56	13° \mathcal{L} 17'14	46°02'47
max. Earth dist.	5431 Apr 25 01:05	6° \mathcal{B} 23'48	1.71618 AU	asc. node	5433 Nov 22 23:42	15° \mathcal{L} 52'21	
	5431 May 13 22:33	0° \mathbb{I}			5433 Dec 06 14:01	0° \mathbb{M}	
evening rise	5431 May 31 12:54	21° \mathbb{I} 52'56			5434 Jan 02 05:44	0° \mathcal{X}	
	5431 Jun 07 02:11	0° \mathcal{G}			5434 Jan 27 11:19	0° \mathcal{Z}	
asc. node	5431 Jun 08 04:36	1° \mathcal{G} 21'43			5434 Feb 21 01:12	0° \approx	
	5431 Jul 01 10:13	0° \mathcal{O}		desc. node	5434 Mar 14 15:05	26° \approx 40'38	
	5431 Jul 25 23:19	0° \mathbb{M}			5434 Mar 17 07:19	0° \mathcal{H}	
	5431 Aug 19 19:07	0° \mathcal{L}			5434 Apr 10 09:49	0° \mathcal{Y}	
	5431 Sep 14 00:43	0° \mathbb{M}			5434 May 04 11:24	0° \mathcal{B}	
desc. node	5431 Sep 27 19:54	16° \mathbb{M} 07'09		morning set	5434 May 25 24:00	26° \mathcal{B} 47'12	
	5431 Oct 09 21:41	0° \mathcal{X}			5434 May 28 14:05	0° \mathbb{I}	
	5431 Nov 05 21:56	0° \mathcal{Z}			5434 Jun 21 18:55	0° \mathcal{G}	
evening max el	5431 Nov 25 22:30	20° \mathcal{Z} 40'05	46°29'54				
	5431 Dec 05 20:02	0° \approx		superior conj	5434 Jul 03 05:25	14° \mathcal{G} 08'03	-0°05'56
greatest brilliancy	5432 Jan 04 23:41	20° \approx 33'52	-4.9m	minimum elong	5434 Jul 03 06:44	14° \mathcal{G} 12'08	0°05'54
retrograde	5432 Jan 14 21:05	22° \approx 23'55		behind sun begin	5434 Jul 02 08:41	13° \mathcal{G} 04'03	
asc. node	5432 Jan 18 21:18	22° \approx 04'09		behind sun end	5434 Jul 04 04:47	15° \mathcal{G} 20'12	
evening set	5432 Jan 29 09:23	18° \approx 13'04		max. Earth dist.	5434 Jul 05 14:08	17° \mathcal{G} 03'08	1.73020 AU
inferior conj	5432 Feb 04 10:22	14° \approx 40'54	4°09'01	asc. node	5434 Jul 05 16:20	17° \mathcal{G} 09'55	
minimum elong	5432 Feb 04 01:39	14° \approx 54'11	4°06'30		5434 Jul 16 02:00	0° \mathcal{O}	
min. Earth dist.	5432 Feb 04 05:15	14° \approx 48'41	0.26702 AU	evening rise	5434 Aug 09 05:50	29° \mathcal{O} 44'22	
morning rise	5432 Feb 09 17:55	11° \approx 32'42			5434 Aug 09 10:55	0° \mathbb{M}	
direct	5432 Feb 24 23:24	6° \approx 58'06			5434 Sep 02 21:36	0° \mathcal{L}	
greatest brilliancy	5432 Mar 05 20:09	8° \approx 49'27	-4.9m		5434 Sep 27 10:51	0° \mathbb{M}	
	5432 Apr 05 06:33	0° \mathcal{H}			5434 Oct 22 03:55	0° \mathcal{X}	
morning max el	5432 Apr 15 10:53	9° \mathcal{H} 49'53	46°53'39	desc. node	5434 Oct 25 07:50	3° \mathcal{X} 49'20	
	5432 May 04 13:42	0° \mathcal{Y}			5434 Nov 16 02:05	0° \mathcal{Z}	
desc. node	5432 May 09 12:54	5° \mathcal{Y} 29'11			5434 Dec 11 07:31	0° \approx	
	5432 May 31 02:11	0° \mathcal{B}			5435 Jan 06 02:52	0° \mathcal{H}	
	5432 Jun 25 16:09	0° \mathbb{I}			5435 Feb 02 10:17	0° \mathcal{Y}	
	5432 Jul 20 20:18	0° \mathcal{G}		evening max el	5435 Feb 06 19:00	4° \mathcal{Y} 29'13	47°08'15
	5432 Aug 14 18:40	0° \mathcal{O}		asc. node	5435 Feb 15 09:10	12° \mathcal{Y} 55'53	
asc. node	5432 Aug 30 14:05	19° \mathcal{O} 09'23			5435 Mar 08 03:50	0° \mathcal{B}	
	5432 Sep 08 11:54	0° \mathbb{M}		greatest brilliancy	5435 Mar 19 11:27	5° \mathcal{B} 54'49	-4.9m
	5432 Oct 02 23:59	0° \mathcal{L}		retrograde	5435 Mar 29 12:37	7° \mathcal{B} 49'42	
morning set	5432 Oct 13 09:08	12° \mathcal{L} 46'58		evening set	5435 Apr 16 13:30	1° \mathcal{B} 34'59	
	5432 Oct 27 07:33	0° \mathbb{M}		inferior conj	5435 Apr 19 08:08	29° \mathcal{Y} 52'03	8°50'53
max. Earth dist.	5432 Nov 16 15:50	25° \mathbb{M} 14'06	1.72462 AU	minimum elong	5435 Apr 19 12:46	29° \mathcal{Y} 44'50	8°50'34
				min. Earth dist.	5435 Apr 19 01:20	0° \mathcal{B} 02'38	0.27402 AU
superior conj	5432 Nov 19 07:26	28° \mathbb{M} 31'41	1°05'28		5435 Apr 19 03:01	30° \mathcal{R} \mathcal{Y}	
minimum elong	5432 Nov 19 17:10	29° \mathbb{M} 01'58	1°05'10	morning rise	5435 Apr 22 12:10	27° \mathcal{Y} 55'15	
	5432 Nov 20 11:51	0° \mathcal{X}		direct	5435 May 10 01:20	22° \mathcal{Y} 01'55	
	5432 Dec 14 14:06	0° \mathcal{Z}		greatest brilliancy	5435 May 19 10:36	23° \mathcal{Y} 40'35	-4.8m
desc. node	5432 Dec 20 05:30	7° \mathcal{Z} 02'05			5435 May 31 22:16	0° \mathcal{B}	
evening rise	5432 Dec 28 03:59	16° \mathcal{Z} 56'22		desc. node	5435 Jun 07 00:33	4° \mathcal{B} 17'32	
	5433 Jan 07 14:58	0° \approx		morning max el	5435 Jun 28 14:19	23° \mathcal{B} 15'26	46°10'52
	5433 Jan 31 15:02	0° \mathcal{H}			5435 Jul 05 08:53	0° \mathbb{I}	
	5433 Feb 24 15:38	0° \mathcal{Y}			5435 Aug 02 09:58	0° \mathcal{G}	
	5433 Mar 20 19:31	0° \mathcal{B}			5435 Aug 28 19:26	0° \mathcal{O}	
asc. node	5433 Apr 12 06:53	27° \mathcal{B} 33'39			5435 Sep 23 08:56	0° \mathbb{M}	
	5433 Apr 14 07:05	0° \mathbb{I}		asc. node	5435 Sep 28 02:06	5° \mathbb{M} 36'56	
	5433 May 09 08:50	0° \mathcal{G}			5435 Oct 18 08:39	0° \mathcal{L}	

	5435 Nov 11 22:02	0°♌		greatest brilliancy	5438 May 29 00:31	17°♏11'41	-4.8m
	5435 Dec 06 04:11	0°♊		retrograde	5438 Jun 08 22:05	19°♏24'01	
morning set	5435 Dec 23 15:33	21°♊45'44		evening set	5438 Jun 24 00:34	14°♏54'41	
	5435 Dec 30 05:47	0°♊		inferior conj	5438 Jun 30 04:22	11°♏12'58	1°03'22
desc. node	5436 Jan 17 17:16	23°♊08'07		minimum elong	5438 Jun 30 06:44	11°♏09'17	1°02'38
	5436 Jan 23 04:35	0°♊		min. Earth dist.	5438 Jun 29 21:16	11°♏24'03	0.28300 AU
max. Earth dist.	5436 Jan 30 21:40	9°♊40'59	1.71285 AU	desc. node	5438 Jul 04 12:20	8°♏34'18	
				morning rise	5438 Jul 06 13:25	7°♏25'00	
superior conj	5436 Feb 01 18:15	12°♊00'59	-0°35'23	direct	5438 Jul 21 09:29	3°♏07'51	
minimum elong	5436 Feb 01 09:41	11°♊34'03	0°34'59	greatest brilliancy	5438 Jul 31 08:19	4°♏55'29	-4.7m
	5436 Feb 16 01:40	0°♊			5438 Sep 05 02:31	0°♏	
	5436 Mar 10 22:15	0°♊		morning max el	5438 Sep 08 03:29	2°♏51'40	45°42'08
evening rise	5436 Mar 13 13:52	3°♊19'49			5438 Oct 04 13:37	0°♏	
	5436 Apr 03 20:12	0°♊		asc. node	5438 Oct 25 13:56	23°♏28'43	
	5436 Apr 27 21:56	0°♊			5438 Oct 31 05:52	0°♏	
asc. node	5436 May 09 18:44	14°♊40'38			5438 Nov 25 15:45	0°♌	
	5436 May 22 05:57	0°♏			5438 Dec 20 08:30	0°♊	
	5436 Jun 15 22:55	0°♏			5439 Jan 13 15:21	0°♊	
	5436 Jul 11 05:07	0°♏			5439 Feb 06 16:37	0°♊	
	5436 Aug 06 09:43	0°♏		desc. node	5439 Feb 14 05:10	9°♊25'13	
desc. node	5436 Aug 29 10:08	24°♏47'16			5439 Mar 02 14:49	0°♊	
	5436 Sep 03 13:13	0°♌		morning set	5439 Mar 09 07:01	8°♊23'00	
evening max el	5436 Sep 10 22:17	7°♌13'31	45°38'52		5439 Mar 26 11:49	0°♊	
	5436 Oct 09 00:41	0°♊					
greatest brilliancy	5436 Oct 20 09:58	5°♊25'09	-4.8m	superior conj	5439 Apr 19 04:12	29°♊43'42	-1°25'17
retrograde	5436 Oct 29 15:54	6°♊58'49		minimum elong	5439 Apr 19 08:59	29°♊58'39	1°25'15
evening set	5436 Nov 15 10:25	1°♊40'18			5439 Apr 19 09:25	0°♊	
	5436 Nov 18 05:40	30°♌		max. Earth dist.	5439 Apr 22 11:21	3°♊51'39	1.71575 AU
inferior conj	5436 Nov 19 19:04	29°♌02'22	-6°42'13		5439 May 13 09:21	0°♊	
minimum elong	5436 Nov 20 05:10	28°♌46'44	6°40'14	evening rise	5439 May 29 02:41	19°♊33'22	
min. Earth dist.	5436 Nov 20 18:43	28°♌25'47	0.28069 AU		5439 Jun 06 13:00	0°♏	
morning rise	5436 Nov 24 23:18	25°♌54'46		asc. node	5439 Jun 07 06:32	0°♏54'17	
direct	5436 Dec 10 23:22	20°♌54'44			5439 Jun 30 21:07	0°♏	
asc. node	5436 Dec 20 11:28	22°♌36'26			5439 Jul 25 10:30	0°♏	
greatest brilliancy	5436 Dec 22 06:18	23°♌16'05	-4.8m		5439 Aug 19 06:48	0°♏	
	5437 Jan 03 09:32	0°♊			5439 Sep 13 13:20	0°♌	
morning max el	5437 Jan 30 10:51	23°♊44'21	46°47'33	desc. node	5439 Sep 26 21:53	15°♌34'15	
	5437 Feb 05 12:31	0°♊			5439 Oct 09 11:59	0°♊	
	5437 Mar 04 14:13	0°♊			5439 Nov 05 15:51	0°♊	
	5437 Mar 30 01:56	0°♊		evening max el	5439 Nov 23 13:21	18°♊21'47	46°27'51
desc. node	5437 Apr 11 03:02	14°♊29'19			5439 Dec 06 01:49	0°♊	
	5437 Apr 23 22:02	0°♊		greatest brilliancy	5440 Jan 02 12:28	18°♊07'20	-4.9m
	5437 May 18 11:25	0°♊		retrograde	5440 Jan 12 09:41	19°♊56'33	
	5437 Jun 11 22:35	0°♊		asc. node	5440 Jan 17 23:23	19°♊18'30	
	5437 Jul 06 09:33	0°♏		evening set	5440 Jan 26 20:16	15°♊48'28	
	5437 Jul 30 20:29	0°♏		inferior conj	5440 Feb 01 22:49	12°♊13'51	3°46'58
asc. node	5437 Aug 02 04:15	2°♏51'08		minimum elong	5440 Feb 01 14:43	12°♊26'13	3°44'34
morning set	5437 Aug 03 20:37	4°♏55'00		min. Earth dist.	5440 Feb 01 18:40	12°♊20'11	0.26703 AU
	5437 Aug 24 06:35	0°♏		morning rise	5440 Feb 07 09:11	9°♊01'37	
max. Earth dist.	5437 Sep 08 08:27	18°♏33'28	1.73407 AU	direct	5440 Feb 22 12:32	4°♊31'06	
				greatest brilliancy	5440 Mar 03 09:46	6°♊22'50	-4.9m
superior conj	5437 Sep 09 13:51	20°♏04'02	1°15'19		5440 Apr 05 10:00	0°♊	
minimum elong	5437 Sep 09 06:15	19°♏40'37	1°15'08	morning max el	5440 Apr 13 00:11	7°♊25'09	46°54'23
	5437 Sep 17 15:19	0°♏			5440 May 04 07:18	0°♊	
	5437 Oct 11 23:01	0°♌		desc. node	5440 May 08 14:50	4°♊47'38	
evening rise	5437 Oct 15 19:35	4°♌45'32			5440 May 30 16:37	0°♊	
	5437 Nov 05 06:32	0°♊			5440 Jun 25 05:00	0°♊	
desc. node	5437 Nov 21 19:36	20°♊24'13			5440 Jul 20 08:13	0°♏	
	5437 Nov 29 14:27	0°♊			5440 Aug 14 06:00	0°♏	
	5437 Dec 23 22:58	0°♊		asc. node	5440 Aug 29 16:12	18°♏42'02	
	5438 Jan 17 08:59	0°♊			5440 Sep 07 22:54	0°♏	
	5438 Feb 10 23:43	0°♊			5440 Oct 02 10:49	0°♏	
	5438 Mar 08 02:51	0°♊		morning set	5440 Oct 11 02:25	10°♏39'06	
asc. node	5438 Mar 14 21:01	7°♊52'45			5440 Oct 26 18:20	0°♌	
	5438 Apr 03 11:29	0°♊		max. Earth dist.	5440 Nov 14 05:09	22°♌52'48	1.72509 AU
evening max el	5438 Apr 19 18:36	17°♊08'06	46°37'51				
	5438 May 03 09:17	0°♏		superior conj	5440 Nov 16 23:12	26°♌17'56	1°07'37

minimum elong	5440 Nov 17 08:44	26° \mathbb{M} 47'34	1°07'21	morning rise	5443 Apr 19 22:18	25° \mathbb{Y} 36'05	
	5440 Nov 19 22:41	0° \mathbb{X}		direct	5443 May 07 13:43	19° \mathbb{Y} 38'00	
	5440 Dec 14 01:03	0° \mathbb{Z}		greatest brilliancy	5443 May 16 23:51	21° \mathbb{Y} 17'12	-4.8m
desc. node	5440 Dec 19 07:31	6° \mathbb{Z} 34'08			5443 Jun 01 23:20	0° \mathbb{B}	
evening rise	5440 Dec 25 17:02	14° \mathbb{Z} 32'50		desc. node	5443 Jun 06 02:34	3° \mathbb{B} 05'16	
	5441 Jan 07 02:05	0° \approx		morning max el	5443 Jun 26 03:40	20° \mathbb{B} 54'05	46°12'32
	5441 Jan 31 02:20	0° \mathbb{H}			5443 Jul 05 05:24	0° \mathbb{I}	
	5441 Feb 24 03:10	0° \mathbb{Y}			5443 Aug 02 01:21	0° \mathbb{G}	
	5441 Mar 20 07:24	0° \mathbb{B}			5443 Aug 28 08:43	0° \mathbb{Q}	
asc. node	5441 Apr 11 08:49	27° \mathbb{B} 01'53			5443 Sep 22 21:07	0° \mathbb{P}	
	5441 Apr 13 19:33	0° \mathbb{I}		asc. node	5443 Sep 27 03:59	5° \mathbb{P} 06'37	
	5441 May 08 22:23	0° \mathbb{G}			5443 Oct 17 20:12	0° \mathbb{L}	
	5441 Jun 04 04:36	0° \mathbb{Q}			5443 Nov 11 09:15	0° \mathbb{M}	
evening max el	5441 Jun 29 15:00	26° \mathbb{Q} 37'14	45°45'00		5443 Dec 05 15:16	0° \mathbb{X}	
	5441 Jul 03 03:30	0° \mathbb{P}		morning set	5443 Dec 21 05:30	19° \mathbb{X} 24'57	
desc. node	5441 Aug 01 00:25	22° \mathbb{P} 16'38			5443 Dec 29 16:51	0° \mathbb{Z}	
greatest brilliancy	5441 Aug 06 20:05	24° \mathbb{P} 53'50	-4.7m	desc. node	5444 Jan 16 19:23	22° \mathbb{Z} 39'59	
retrograde	5441 Aug 17 13:53	26° \mathbb{P} 58'25			5444 Jan 22 15:42	0° \approx	
evening set	5441 Sep 03 10:31	21° \mathbb{P} 35'06		max. Earth dist.	5444 Jan 28 07:23	7° \approx 05'52	1.71317 AU
inferior conj	5441 Sep 08 03:00	18° \mathbb{P} 42'14	-7°28'05				
minimum elong	5441 Sep 07 18:25	18° \mathbb{P} 55'45	7°26'50	superior conj	5444 Jan 30 05:17	9° \approx 29'58	-0°31'45
min. Earth dist.	5441 Sep 07 21:52	18° \mathbb{P} 50'18	0.29138 AU	minimum elong	5444 Jan 29 21:29	9° \approx 05'26	0°31'22
morning rise	5441 Sep 12 02:20	16° \mathbb{P} 14'46			5444 Feb 15 12:50	0° \mathbb{H}	
direct	5441 Sep 29 17:56	10° \mathbb{P} 24'39			5444 Mar 10 09:29	0° \mathbb{Y}	
greatest brilliancy	5441 Oct 10 01:02	12° \mathbb{P} 19'30	-4.7m	evening rise	5444 Mar 11 00:16	0° \mathbb{Y} 46'28	
	5441 Nov 06 01:47	0° \mathbb{L}			5444 Apr 03 07:31	0° \mathbb{B}	
morning max el	5441 Nov 17 23:06	11° \mathbb{L} 00'50	46°01'17		5444 Apr 27 09:24	0° \mathbb{I}	
asc. node	5441 Nov 22 01:43	15° \mathbb{L} 05'27		asc. node	5444 May 08 20:42	14° \mathbb{I} 11'08	
	5441 Dec 06 07:21	0° \mathbb{M}			5444 May 21 17:39	0° \mathbb{G}	
	5442 Jan 01 19:58	0° \mathbb{X}			5444 Jun 15 11:06	0° \mathbb{Q}	
	5442 Jan 27 00:14	0° \mathbb{Z}			5444 Jul 10 18:16	0° \mathbb{P}	
	5442 Feb 20 13:24	0° \approx			5444 Aug 06 00:55	0° \mathbb{L}	
desc. node	5442 Mar 13 17:08	26° \approx 10'16		desc. node	5444 Aug 28 12:06	24° \mathbb{L} 03'19	
	5442 Mar 16 19:05	0° \mathbb{H}			5444 Sep 03 09:51	0° \mathbb{M}	
	5442 Apr 09 21:16	0° \mathbb{Y}		evening max el	5444 Sep 08 13:01	4° \mathbb{M} 59'21	45°38'08
	5442 May 03 22:37	0° \mathbb{B}			5444 Oct 10 14:41	0° \mathbb{X}	
morning set	5442 May 23 14:07	24° \mathbb{B} 27'37		greatest brilliancy	5444 Oct 17 22:59	3° \mathbb{X} 08'27	-4.8m
	5442 May 28 01:07	0° \mathbb{I}		retrograde	5444 Oct 27 06:40	4° \mathbb{X} 43'25	
	5442 Jun 21 05:51	0° \mathbb{G}			5444 Nov 11 23:39	30° \mathbb{R} \mathbb{M}	
				evening set	5444 Nov 13 03:56	29° \mathbb{M} 19'49	
superior conj	5442 Jun 30 21:21	11° \mathbb{G} 55'26	-0°09'20	inferior conj	5444 Nov 17 09:49	26° \mathbb{M} 45'48	-6°55'15
minimum elong	5442 Jun 30 23:27	12° \mathbb{G} 01'54	0°09'15	minimum elong	5444 Nov 17 19:45	26° \mathbb{M} 30'27	6°53'24
behind sun begin	5442 Jun 30 04:01	11° \mathbb{G} 01'53		min. Earth dist.	5444 Nov 18 09:03	26° \mathbb{M} 09'54	0.28136 AU
behind sun end	5442 Jul 01 18:52	13° \mathbb{G} 01'54		morning rise	5444 Nov 22 11:03	23° \mathbb{M} 42'44	
max. Earth dist.	5442 Jul 03 08:05	14° \mathbb{G} 56'45	1.72980 AU	direct	5444 Dec 08 15:06	18° \mathbb{M} 37'16	
asc. node	5442 Jul 04 18:26	16° \mathbb{G} 42'47		asc. node	5444 Dec 19 13:30	20° \mathbb{M} 50'45	
	5442 Jul 15 12:53	0° \mathbb{Q}		greatest brilliancy	5444 Dec 19 21:38	20° \mathbb{M} 58'44	-4.8m
evening rise	5442 Aug 06 23:47	27° \mathbb{Q} 38'28			5445 Jan 04 05:35	0° \mathbb{X}	
	5442 Aug 08 21:50	0° \mathbb{P}		morning max el	5445 Jan 28 02:45	21° \mathbb{X} 27'05	46°46'17
	5442 Sep 02 08:39	0° \mathbb{L}			5445 Feb 05 08:30	0° \mathbb{Z}	
	5442 Sep 26 22:11	0° \mathbb{M}			5445 Mar 04 05:42	0° \approx	
	5442 Oct 21 15:45	0° \mathbb{X}			5445 Mar 29 15:33	0° \mathbb{H}	
desc. node	5442 Oct 24 09:46	3° \mathbb{X} 19'17		desc. node	5445 Apr 10 04:56	13° \mathbb{H} 55'27	
	5442 Nov 15 14:43	0° \mathbb{Z}			5445 Apr 23 10:39	0° \mathbb{Y}	
	5442 Dec 10 21:26	0° \approx			5445 May 17 23:25	0° \mathbb{B}	
	5443 Jan 05 19:04	0° \mathbb{H}			5445 Jun 11 10:08	0° \mathbb{I}	
	5443 Feb 02 08:03	0° \mathbb{Y}			5445 Jul 05 20:46	0° \mathbb{G}	
evening max el	5443 Feb 04 07:44	2° \mathbb{Y} 01'42	47°07'56		5445 Jul 30 07:27	0° \mathbb{Q}	
asc. node	5443 Feb 14 11:16	11° \mathbb{Y} 56'15		asc. node	5445 Aug 01 06:18	2° \mathbb{Q} 23'47	
	5443 Mar 09 16:01	0° \mathbb{B}		morning set	5445 Aug 01 13:48	2° \mathbb{Q} 46'48	
greatest brilliancy	5443 Mar 17 02:08	3° \mathbb{B} 30'42	-4.9m		5445 Aug 23 17:25	0° \mathbb{P}	
retrograde	5443 Mar 27 01:52	5° \mathbb{B} 24'49		max. Earth dist.	5445 Sep 06 06:50	16° \mathbb{P} 41'14	1.73418 AU
	5443 Apr 12 17:52	30° \mathbb{R} \mathbb{Y}					
evening set	5443 Apr 14 04:30	29° \mathbb{Y} 08'16		superior conj	5445 Sep 07 07:51	17° \mathbb{P} 58'16	1°13'46
inferior conj	5443 Apr 16 21:35	27° \mathbb{Y} 27'52	8°55'46	minimum elong	5445 Sep 06 23:53	17° \mathbb{P} 33'45	1°13'33
minimum elong	5443 Apr 17 01:21	27° \mathbb{Y} 22'01	8°55'33		5445 Sep 17 02:09	0° \mathbb{L}	
min. Earth dist.	5443 Apr 16 14:41	27° \mathbb{Y} 38'37	0.27370 AU		5445 Oct 11 09:58	0° \mathbb{M}	

evening rise	5445 Oct 13 12:50	2°♌36'56		5448 May 30 06:49	0°♎	
	5445 Nov 04 17:40	0°♏		5448 Jun 24 17:44	0°♐	
desc. node	5445 Nov 20 21:39	19°♏55'45		5448 Jul 19 20:06	0°♑	
	5445 Nov 29 01:51	0°♑		5448 Aug 13 17:20	0°♒	
	5445 Dec 23 10:44	0°♒		asc. node	5448 Aug 28 18:07	18°♒14'04
	5446 Jan 16 21:17	0°♓		5448 Sep 07 09:53	0°♓	
	5446 Feb 10 12:51	0°♓		5448 Oct 01 21:36	0°♐	
	5446 Mar 07 17:29	0°♎		morning set	5448 Oct 08 19:35	8°♐30'57
asc. node	5446 Mar 13 22:54	7°♎14'13		5448 Oct 26 05:03	0°♌	
	5446 Apr 03 05:29	0°♐		max. Earth dist.	5448 Nov 11 19:43	20°♌35'45 1.72554 AU
evening max el	5446 Apr 17 10:40	14°♐52'48 46°39'41				
	5446 May 03 15:55	0°♑		superior conj	5448 Nov 14 15:04	24°♌04'49 1°09'40
greatest brilliancy	5446 May 26 16:29	14°♑56'54 -4.8m		minimum elong	5448 Nov 15 00:21	24°♌33'38 1°09'25
retrograde	5446 Jun 06 14:22	17°♑09'09			5448 Nov 19 09:26	0°♏
evening set	5446 Jun 21 17:24	12°♑38'16			5448 Dec 13 11:55	0°♑
inferior conj	5446 Jun 27 19:42	8°♑58'27 1°24'30		desc. node	5448 Dec 18 09:35	6°♑06'35
minimum elong	5446 Jun 27 22:50	8°♑53'33 1°23'32		evening rise	5448 Dec 23 06:19	12°♑10'24
min. Earth dist.	5446 Jun 27 12:42	9°♑09'22 0.28264 AU			5449 Jan 06 13:08	0°♒
desc. node	5446 Jul 03 14:27	5°♑30'23			5449 Jan 30 13:35	0°♓
morning rise	5446 Jul 04 04:52	5°♑10'38			5449 Feb 23 14:39	0°♓
direct	5446 Jul 19 00:58	0°♑54'01			5449 Mar 19 19:12	0°♎
greatest brilliancy	5446 Jul 28 22:31	2°♑41'04 -4.7m		asc. node	5449 Apr 10 10:51	26°♎30'46
	5446 Sep 05 02:06	0°♒			5449 Apr 13 07:54	0°♐
morning max el	5446 Sep 05 19:30	0°♒41'22 45°42'19			5449 May 08 11:52	0°♑
	5446 Oct 04 05:36	0°♓			5449 Jun 03 20:34	0°♒
asc. node	5446 Oct 24 15:56	22°♓54'42		evening max el	5449 Jun 27 05:47	24°♒23'17 45°46'10
	5446 Oct 30 19:19	0°♐			5449 Jul 03 03:20	0°♓
	5446 Nov 25 04:04	0°♌		desc. node	5449 Jul 31 02:21	20°♓50'24
	5446 Dec 19 20:15	0°♏		greatest brilliancy	5449 Aug 04 11:58	22°♓44'46 -4.7m
	5447 Jan 13 02:46	0°♑		retrograde	5449 Aug 15 05:46	24°♓50'01
	5447 Feb 06 03:50	0°♒		evening set	5449 Aug 31 23:51	19°♓31'04
desc. node	5447 Feb 13 07:12	8°♒56'32		inferior conj	5449 Sep 05 19:30	16°♓33'47 -7°18'01
	5447 Mar 02 01:55	0°♓		minimum elong	5449 Sep 05 10:33	16°♓47'51 7°16'39
morning set	5447 Mar 06 17:21	5°♓49'55		min. Earth dist.	5449 Sep 05 13:57	16°♓42'30 0.29132 AU
	5447 Mar 25 22:51	0°♓		morning rise	5449 Sep 09 21:15	14°♓02'36
				direct	5449 Sep 27 09:47	8°♓16'19
superior conj	5447 Apr 16 16:00	27°♓15'47 -1°26'01		greatest brilliancy	5449 Oct 07 17:22	10°♓11'05 -4.7m
minimum elong	5447 Apr 16 19:48	27°♓27'42 1°25'59			5449 Nov 06 05:01	0°♐
	5447 Apr 18 20:23	0°♎		morning max el	5449 Nov 15 13:30	8°♐45'35 45°59'56
max. Earth dist.	5447 Apr 19 23:44	1°♎25'40 1.71536 AU		asc. node	5449 Nov 21 03:48	14°♐19'57
	5447 May 12 20:19	0°♐			5449 Dec 06 00:06	0°♌
evening rise	5447 May 26 16:18	17°♐12'36			5450 Jan 01 09:48	0°♏
	5447 Jun 05 23:59	0°♑			5450 Jan 26 12:48	0°♑
asc. node	5447 Jun 06 08:39	0°♑26'48			5450 Feb 20 01:19	0°♒
	5447 Jun 30 08:13	0°♒		desc. node	5450 Mar 12 18:59	25°♒40'08
	5447 Jul 24 21:52	0°♓			5450 Mar 16 06:36	0°♓
	5447 Aug 18 18:41	0°♐			5450 Apr 09 08:29	0°♓
	5447 Sep 13 02:09	0°♌			5450 May 03 09:35	0°♎
desc. node	5447 Sep 25 23:50	15°♌00'43		morning set	5450 May 21 04:17	22°♎08'48
	5447 Oct 09 02:33	0°♏			5450 May 27 11:53	0°♐
	5447 Nov 05 10:16	0°♑			5450 Jun 20 16:29	0°♑
evening max el	5447 Nov 21 03:33	16°♑01'48 46°25'44				
	5447 Dec 06 09:57	0°♒		superior conj	5450 Jun 28 13:25	9°♑44'05 -0°12'43
greatest brilliancy	5447 Dec 31 01:59	15°♒41'50 -4.9m		minimum elong	5450 Jun 28 16:16	9°♑52'52 0°12'35
retrograde	5448 Jan 09 21:51	17°♒29'31		behind sun begin	5450 Jun 28 01:32	9°♑07'21
asc. node	5448 Jan 17 01:27	16°♒27'15		behind sun end	5450 Jun 29 07:00	10°♑38'23
evening set	5448 Jan 24 07:32	13°♒23'52		max. Earth dist.	5450 Jul 01 01:25	12°♑49'23 1.72939 AU
inferior conj	5448 Jan 30 11:25	9°♒47'21 3°24'29		asc. node	5450 Jul 03 20:27	16°♑16'18
minimum elong	5448 Jan 30 04:00	9°♒58'41 3°22'14			5450 Jul 14 23:29	0°♒
min. Earth dist.	5448 Jan 30 08:39	9°♒51'34 0.26707 AU		evening rise	5450 Aug 04 17:51	25°♒33'52
morning rise	5448 Feb 05 00:24	6°♒31'06			5450 Aug 08 08:27	0°♓
direct	5448 Feb 20 01:19	2°♒04'26			5450 Sep 01 19:26	0°♐
greatest brilliancy	5448 Mar 01 00:07	3°♒57'14 -4.9m			5450 Sep 26 09:17	0°♌
	5448 Apr 05 11:51	0°♓			5450 Oct 21 03:22	0°♏
morning max el	5448 Apr 10 12:30	4°♓58'01 46°55'12		desc. node	5450 Oct 23 11:48	2°♏50'09
	5448 May 04 00:28	0°♓			5450 Nov 15 03:09	0°♑
desc. node	5448 May 07 16:56	4°♓07'10			5450 Dec 10 11:09	0°♒



































































































































	5451 Jan 05 11:11	0° H			5453 Jun 10 21:19	0° II		
evening max el	5451 Feb 01 20:37	29° H 35'36	47°07'35		5453 Jul 05 07:38	0° G		
	5451 Feb 02 06:15	0° Y			5453 Jul 29 18:05	0° Q		
asc. node	5451 Feb 13 13:09	10° Y 55'39		morning set	5453 Jul 30 07:01	0° Q 39'43		
	5451 Mar 11 22:52	0° B		asc. node	5453 Jul 31 08:13	1° Q 57'05		
greatest brilliancy	5451 Mar 14 16:03	1° B 06'25	-4.9m		5453 Aug 23 03:54	0° M		
retrograde	5451 Mar 24 15:24	3° B 00'43		max. Earth dist.	5453 Sep 04 04:58	14° M 49'20	1.73423 AU	
	5451 Apr 05 19:38	30° R Y						
evening set	5451 Apr 11 18:57	26° Y 42'39		superior conj	5453 Sep 05 01:55	15° M 53'51	1°12'05	
inferior conj	5451 Apr 14 10:56	25° Y 04'10	8°59'37	minimum elong	5453 Sep 04 17:39	15° M 28'24	1°11'52	
minimum elong	5451 Apr 14 13:49	24° Y 59'43	8°59'29		5453 Sep 16 12:37	0° L		
min. Earth dist.	5451 Apr 14 03:40	25° Y 15'26	0.27341 AU		5453 Oct 10 20:32	0° M		
morning rise	5451 Apr 17 08:46	23° Y 16'57		evening rise	5453 Oct 11 06:15	0° M 29'57		
direct	5451 May 05 02:20	17° Y 14'28			5453 Nov 04 04:27	0° J		
greatest brilliancy	5451 May 14 12:47	18° Y 54'12	-4.8m	desc. node	5453 Nov 19 23:45	19° J 28'26		
	5451 Jun 02 17:25	0° B			5453 Nov 28 12:56	0° Z		
desc. node	5451 Jun 05 04:36	1° B 55'53			5453 Dec 22 22:15	0° \approx		
morning max el	5451 Jun 23 17:54	18° B 35'49	46°14'22		5454 Jan 16 09:23	0° H		
	5451 Jul 05 00:54	0° II			5454 Feb 10 01:49	0° Y		
	5451 Aug 01 16:09	0° G			5454 Mar 07 07:59	0° B		
	5451 Aug 27 21:29	0° Q		asc. node	5454 Mar 13 00:57	6° B 36'47		
	5451 Sep 22 08:51	0° M			5454 Apr 02 23:33	0° II		
asc. node	5451 Sep 26 06:00	4° M 37'56		evening max el	5454 Apr 15 02:29	12° II 37'43	46°41'32	
	5451 Oct 17 07:23	0° L			5454 May 04 00:35	0° G		
	5451 Nov 10 20:08	0° M		greatest brilliancy	5454 May 24 08:48	12° G 43'22	-4.8m	
	5451 Dec 05 02:03	0° J		retrograde	5454 Jun 04 06:11	14° G 54'46		
morning set	5451 Dec 18 19:35	17° J 05'38		evening set	5454 Jun 19 10:20	10° G 22'20		
	5451 Dec 29 03:36	0° Z		inferior conj	5454 Jun 25 10:56	6° G 44'31	1°45'38	
desc. node	5452 Jan 15 21:20	22° Z 12'26		minimum elong	5454 Jun 25 14:50	6° G 38'26	1°44'25	
	5452 Jan 22 02:27	0° \approx		min. Earth dist.	5454 Jun 25 04:10	6° G 55'05	0.28227 AU	
max. Earth dist.	5452 Jan 25 18:51	4° \approx 37'23	1.71346 AU	morning rise	5454 Jul 01 19:59	2° G 56'52		
				desc. node	5454 Jul 02 16:26	2° G 29'49		
superior conj	5452 Jan 27 16:21	7° \approx 00'12	-0°28'03		5454 Jul 08 13:06	30° R II		
minimum elong	5452 Jan 27 09:22	6° \approx 38'16	0°27'43	direct	5454 Jul 16 16:20	28° II 40'50		
	5452 Feb 14 23:37	0° H			5454 Jul 25 03:08	0° G		
evening rise	5452 Mar 08 10:49	28° H 14'47		greatest brilliancy	5454 Jul 26 12:37	0° G 27'01	-4.7m	
	5452 Mar 09 20:19	0° Y		morning max el	5454 Sep 03 10:43	28° G 29'53	45°42'36	
	5452 Apr 02 18:28	0° B			5454 Sep 05 00:19	0° Q		
	5452 Apr 26 20:31	0° II			5454 Oct 03 20:59	0° M		
asc. node	5452 May 07 22:48	13° II 43'03		asc. node	5454 Oct 23 18:01	22° M 22'06		
	5452 May 21 05:02	0° G			5454 Oct 30 08:20	0° L		
	5452 Jun 14 22:59	0° Q			5454 Nov 24 16:00	0° M		
	5452 Jul 10 07:07	0° M			5454 Dec 19 07:38	0° J		
	5452 Aug 05 15:53	0° L			5455 Jan 12 13:53	0° Z		
desc. node	5452 Aug 27 14:03	23° L 19'58			5455 Feb 05 14:48	0° \approx		
	5452 Sep 03 06:42	0° M		desc. node	5455 Feb 12 09:08	8° \approx 28'16		
evening max el	5452 Sep 06 04:22	2° M 48'01	45°37'22		5455 Mar 01 12:49	0° H		
	5452 Oct 13 01:15	0° J		greatest brilliancy	5455 Mar 03 10:19	2° H 22'53	-3.9m	
greatest brilliancy	5452 Oct 15 11:49	0° J 53'03	-4.7m	morning set	5455 Mar 04 03:15	3° H 16'05		
retrograde	5452 Oct 24 21:28	2° J 29'10			5455 Mar 25 09:41	0° Y		
	5452 Nov 05 02:40	30° R M						
evening set	5452 Nov 10 21:29	27° M 00'47		superior conj	5455 Apr 14 03:19	24° Y 46'59	-1°26'34	
inferior conj	5452 Nov 15 00:37	24° M 30'27	-7°07'35	minimum elong	5455 Apr 14 06:06	24° Y 55'42	1°26'34	
minimum elong	5452 Nov 15 10:19	24° M 15'26	7°05'52	max. Earth dist.	5455 Apr 17 10:38	28° Y 55'40	1.71492 AU	
min. Earth dist.	5452 Nov 15 23:06	23° M 55'39	0.28204 AU		5455 Apr 18 07:10	0° B		
morning rise	5452 Nov 19 22:43	21° M 31'53			5455 May 12 07:03	0° II		
direct	5452 Dec 06 07:08	16° M 21'12		evening rise	5455 May 24 05:23	14° II 50'49		
greatest brilliancy	5452 Dec 17 12:28	18° M 41'50	-4.8m	asc. node	5455 Jun 05 10:36	29° II 59'36		
asc. node	5452 Dec 18 15:31	19° M 09'49			5455 Jun 05 10:44	0° G		
	5453 Jan 04 20:03	0° J			5455 Jun 29 19:07	0° Q		
morning max el	5453 Jan 25 18:35	19° J 10'42	46°44'56		5455 Jul 24 09:04	0° M		
	5453 Feb 05 03:34	0° Z			5455 Aug 18 06:25	0° L		
	5453 Mar 03 20:38	0° \approx			5455 Sep 12 14:49	0° M		
	5453 Mar 29 04:42	0° H		desc. node	5455 Sep 25 01:57	14° M 28'09		
desc. node	5453 Apr 09 07:05	13° H 23'35			5455 Oct 08 17:02	0° J		
	5453 Apr 22 22:50	0° Y			5455 Nov 05 04:51	0° Z		
	5453 May 17 11:00	0° B		evening max el	5455 Nov 18 16:38	13° Z 40'03	46°23'37	

	5455 Dec 06 20:30	0°♊			5458 Jun 20 03:16	0°♊	
greatest brilliancy	5455 Dec 28 15:37	13°♊17'18	-4.9m				
retrograde	5456 Jan 07 09:30	15°♊03'26		superior conj	5458 Jun 26 05:02	7°♊30'48	-0°16'07
asc. node	5456 Jan 16 03:20	13°♊31'00		minimum elong	5458 Jun 26 08:38	7°♊41'56	0°15'58
evening set	5456 Jan 21 18:58	10°♊59'29		behind sun begin	5458 Jun 26 07:31	7°♊38'30	
inferior conj	5456 Jan 28 00:00	7°♊21'35	3°01'32	behind sun end	5458 Jun 26 09:45	7°♊45'23	
minimum elong	5456 Jan 27 17:20	7°♊31'48	2°59'30	max. Earth dist.	5458 Jun 28 17:41	10°♊38'12	1.72899 AU
min. Earth dist.	5456 Jan 27 22:50	7°♊23'22	0.26719 AU	asc. node	5458 Jul 02 22:22	15°♊49'08	
morning rise	5456 Feb 02 15:29	4°♊01'34			5458 Jul 14 10:12	0°♊	
	5456 Feb 13 08:20	30°♋♂		evening rise	5458 Aug 02 11:32	23°♊27'43	
direct	5456 Feb 17 13:45	29°♋38'09			5458 Aug 07 19:13	0°♋	
	5456 Feb 21 20:58	0°♋			5458 Sep 01 06:22	0°♋	
greatest brilliancy	5456 Feb 27 15:03	1°♋32'45	-4.9m		5458 Sep 25 20:34	0°♋	
	5456 Apr 05 12:20	0°♋			5458 Oct 20 15:13	0°♋	
morning max el	5456 Apr 08 00:30	2°♋30'02	46°55'55	desc. node	5458 Oct 22 13:52	2°♋20'33	
	5456 May 03 17:14	0°♋			5458 Nov 14 15:50	0°♋	
desc. node	5456 May 06 18:57	3°♋27'02			5458 Dec 10 01:11	0°♋	
	5456 May 29 20:49	0°♋			5459 Jan 05 03:43	0°♋	
	5456 Jun 24 06:19	0°♋		evening max el	5459 Jan 30 10:27	27°♋11'56	47°07'21
	5456 Jul 19 07:49	0°♋			5459 Feb 02 05:26	0°♋	
	5456 Aug 13 04:31	0°♋		asc. node	5459 Feb 12 15:14	9°♋54'02	
asc. node	5456 Aug 27 20:07	17°♋46'49		greatest brilliancy	5459 Mar 12 05:21	28°♋41'41	-4.9m
	5456 Sep 06 20:45	0°♋			5459 Mar 16 16:01	0°♋	
	5456 Oct 01 08:18	0°♋		retrograde	5459 Mar 22 05:34	0°♋36'55	
morning set	5456 Oct 06 12:43	6°♋22'58			5459 Mar 27 16:04	30°♋♂	
	5456 Oct 25 15:41	0°♋		evening set	5459 Apr 09 09:00	24°♋17'57	
max. Earth dist.	5456 Nov 09 12:02	18°♋24'25	1.72597 AU	min. Earth dist.	5459 Apr 11 16:19	22°♋53'04	0.27311 AU
				inferior conj	5459 Apr 12 00:24	22°♋40'34	9°02'25
superior conj	5456 Nov 12 07:11	21°♋52'47	1°11'35	minimum elong	5459 Apr 12 02:22	22°♋37'32	9°02'22
minimum elong	5456 Nov 12 16:09	22°♋20'37	1°11'21	morning rise	5459 Apr 14 19:49	20°♋57'15	
	5456 Nov 18 20:06	0°♋		direct	5459 May 02 15:39	14°♋51'13	
	5456 Dec 12 22:41	0°♋		greatest brilliancy	5459 May 12 01:16	16°♋30'48	-4.8m
desc. node	5456 Dec 17 11:32	5°♋39'03			5459 Jun 03 06:58	0°♋	
evening rise	5456 Dec 20 19:59	9°♋49'43		desc. node	5459 Jun 04 06:36	0°♋48'09	
	5457 Jan 06 00:03	0°♋		morning max el	5459 Jun 21 08:51	16°♋18'50	46°15'56
	5457 Jan 30 00:44	0°♋			5459 Jul 04 20:02	0°♋	
	5457 Feb 23 02:03	0°♋			5459 Aug 01 06:59	0°♋	
	5457 Mar 19 06:59	0°♋			5459 Aug 27 10:26	0°♋	
asc. node	5457 Apr 09 12:54	25°♋59'35			5459 Sep 21 20:47	0°♋	
	5457 Apr 12 20:20	0°♋		asc. node	5459 Sep 25 08:07	4°♋08'51	
	5457 May 08 01:30	0°♋			5459 Oct 16 18:45	0°♋	
	5457 Jun 03 12:54	0°♋			5459 Nov 10 07:14	0°♋	
evening max el	5457 Jun 24 20:14	22°♋08'19	45°47'36		5459 Dec 04 13:02	0°♋	
	5457 Jul 03 04:31	0°♋		morning set	5459 Dec 16 09:42	14°♋45'51	
desc. node	5457 Jul 30 04:19	19°♋20'56			5459 Dec 28 14:35	0°♋	
greatest brilliancy	5457 Aug 02 03:12	20°♋34'36	-4.7m	desc. node	5460 Jan 14 23:20	21°♋44'17	
retrograde	5457 Aug 12 21:55	22°♋41'17			5460 Jan 21 13:27	0°♋	
evening set	5457 Aug 29 13:02	17°♋26'19		max. Earth dist.	5460 Jan 23 05:11	2°♋04'39	1.71371 AU
inferior conj	5457 Sep 03 11:50	14°♋24'44	-7°07'14				
minimum elong	5457 Sep 03 02:35	14°♋39'15	7°05'43	superior conj	5460 Jan 25 03:33	4°♋30'09	-0°24'19
min. Earth dist.	5457 Sep 03 05:41	14°♋34'23	0.29124 AU	minimum elong	5460 Jan 24 21:27	4°♋10'59	0°24'01
morning rise	5457 Sep 07 16:07	11°♋49'56			5460 Feb 14 10:38	0°♋	
direct	5457 Sep 25 01:33	6°♋07'15		evening rise	5460 Mar 05 21:36	25°♋43'07	
greatest brilliancy	5457 Oct 05 09:40	8°♋02'19	-4.7m		5460 Mar 09 07:23	0°♋	
	5457 Nov 06 06:50	0°♋			5460 Apr 02 05:36	0°♋	
morning max el	5457 Nov 13 04:36	6°♋31'58	45°58'45		5460 Apr 26 07:48	0°♋	
asc. node	5457 Nov 20 05:44	13°♋34'30		asc. node	5460 May 07 00:45	13°♋14'01	
	5457 Dec 05 16:35	0°♋			5460 May 20 16:36	0°♋	
	5457 Dec 31 23:31	0°♋			5460 Jun 14 11:06	0°♋	
	5458 Jan 26 01:18	0°♋			5460 Jul 09 20:19	0°♋	
	5458 Feb 19 13:11	0°♋			5460 Aug 05 07:25	0°♋	
desc. node	5458 Mar 11 21:08	25°♋11'03		desc. node	5460 Aug 26 16:12	22°♋35'30	
	5458 Mar 15 18:04	0°♋			5460 Sep 03 04:47	0°♋	
	5458 Apr 08 19:41	0°♋		evening max el	5460 Sep 03 19:59	0°♋36'23	45°36'36
	5458 May 02 20:36	0°♋		greatest brilliancy	5460 Oct 13 01:16	28°♋37'36	-4.7m
morning set	5458 May 18 18:06	19°♋48'25			5460 Oct 18 23:19	0°♋	
	5458 May 26 22:45	0°♋		retrograde	5460 Oct 22 11:59	0°♋14'07	

	5460 Oct 25 23:01	30° κ \mathbb{M}		superior conj	5463 Apr 11 14:38	22° Υ 17'06	-1°26'57
evening set	5460 Nov 08 15:03	24° \mathbb{M} 41'21		minimum elong	5463 Apr 11 16:23	22° Υ 22'36	1°26'58
inferior conj	5460 Nov 12 15:29	22° \mathbb{M} 14'33	-7°19'04	max. Earth dist.	5463 Apr 14 18:28	26° Υ 14'54	1.71450 AU
minimum elong	5460 Nov 13 00:53	21° \mathbb{M} 59'58	7°17'31		5463 Apr 17 18:16	0° \mathcal{B}	
min. Earth dist.	5460 Nov 13 13:15	21° \mathbb{M} 40'47	0.28269 AU		5463 May 11 18:07	0° \mathbb{I}	
morning rise	5460 Nov 17 10:21	19° \mathbb{M} 20'23		evening rise	5463 May 21 18:26	12° \mathbb{I} 27'50	
direct	5460 Dec 03 23:09	14° \mathbb{M} 04'42		asc. node	5463 Jun 04 12:35	29° \mathbb{I} 31'27	
greatest brilliancy	5460 Dec 15 03:04	16° \mathbb{M} 23'55	-4.8m		5463 Jun 04 21:49	0° \mathcal{C}	
asc. node	5460 Dec 17 17:29	17° \mathbb{M} 31'33			5463 Jun 29 06:18	0° \mathcal{Q}	
	5461 Jan 05 07:13	0° \mathcal{A}			5463 Jul 23 20:32	0° \mathbb{P}	
morning max el	5461 Jan 23 09:37	16° \mathcal{A} 51'26	46°43'29		5463 Aug 17 18:26	0° \mathcal{L}	
	5461 Feb 04 22:28	0° \mathcal{Z}			5463 Sep 12 03:52	0° \mathbb{M}	
	5461 Mar 03 11:40	0° \approx		desc. node	5463 Sep 24 03:55	13° \mathbb{M} 54'04	
	5461 Mar 28 18:03	0° \mathcal{H}			5463 Oct 08 08:03	0° \mathcal{A}	
desc. node	5461 Apr 08 09:03	12° \mathcal{H} 50'29			5463 Nov 05 00:22	0° \mathcal{Z}	
	5461 Apr 22 11:14	0° Υ		evening max el	5463 Nov 16 05:09	11° \mathcal{Z} 15'59	46°21'29
	5461 May 16 22:47	0° \mathcal{B}			5463 Dec 07 11:17	0° \approx	
	5461 Jun 10 08:40	0° \mathbb{I}		greatest brilliancy	5463 Dec 26 05:18	10° \approx 51'50	-4.9m
	5461 Jul 04 18:41	0° \mathcal{C}		retrograde	5464 Jan 04 21:29	12° \approx 36'49	
morning set	5461 Jul 28 00:25	28° \mathcal{C} 32'27		asc. node	5464 Jan 15 05:25	10° \approx 28'24	
	5461 Jul 29 04:56	0° \mathcal{Q}		evening set	5464 Jan 19 06:41	8° \approx 33'48	
asc. node	5461 Jul 30 10:17	1° \mathcal{Q} 30'07		inferior conj	5464 Jan 25 12:41	4° \approx 55'05	2°38'21
	5461 Aug 22 14:41	0° \mathbb{P}		minimum elong	5464 Jan 25 06:46	5° \approx 04'07	2°36'31
max. Earth dist.	5461 Sep 02 01:26	12° \mathbb{P} 51'25	1.73430 AU	min. Earth dist.	5464 Jan 25 13:08	4° \approx 54'23	0.26735 AU
				morning rise	5464 Jan 31 06:31	1° \approx 31'45	
superior conj	5461 Sep 02 20:04	13° \mathbb{P} 48'45	1°10'20		5464 Feb 03 06:58	30° κ \mathcal{Z}	
minimum elong	5461 Sep 02 11:33	13° \mathbb{P} 22'33	1°10'06	direct	5464 Feb 15 02:05	27° \mathcal{Z} 10'55	
	5461 Sep 15 23:24	0° \mathcal{L}		greatest brilliancy	5464 Feb 25 06:13	29° \mathcal{Z} 07'50	-4.9m
evening rise	5461 Oct 08 23:37	28° \mathcal{L} 21'51			5464 Feb 27 10:21	0° \approx	
	5461 Oct 10 07:26	0° \mathbb{M}		morning max el	5464 Apr 05 13:10	0° \mathcal{H} 02'49	46°56'35
	5461 Nov 03 15:34	0° \mathcal{A}			5464 Apr 05 12:03	0° \mathcal{H}	
desc. node	5461 Nov 19 01:38	18° \mathcal{A} 59'27			5464 May 03 10:00	0° Υ	
	5461 Nov 28 00:22	0° \mathcal{Z}		desc. node	5464 May 05 20:55	2° Υ 46'18	
	5461 Dec 22 10:08	0° \approx			5464 May 29 10:58	0° \mathcal{B}	
	5462 Jan 15 21:52	0° \mathcal{H}			5464 Jun 23 19:05	0° \mathbb{I}	
	5462 Feb 09 15:14	0° Υ			5464 Jul 18 19:45	0° \mathcal{C}	
	5462 Mar 06 23:02	0° \mathcal{B}			5464 Aug 12 15:55	0° \mathcal{Q}	
asc. node	5462 Mar 12 03:02	5° \mathcal{B} 57'59		asc. node	5464 Aug 26 22:14	17° \mathcal{Q} 19'14	
	5462 Apr 02 18:26	0° \mathbb{I}			5464 Sep 06 07:48	0° \mathbb{P}	
evening max el	5462 Apr 12 17:44	10° \mathbb{I} 20'07	46°43'25		5464 Sep 30 19:11	0° \mathcal{L}	
	5462 May 04 12:43	0° \mathcal{C}		morning set	5464 Oct 04 06:14	4° \mathcal{L} 15'38	
greatest brilliancy	5462 May 22 01:56	10° \mathcal{C} 30'18	-4.8m		5464 Oct 25 02:31	0° \mathbb{M}	
retrograde	5462 Jun 01 21:47	12° \mathcal{C} 40'11		max. Earth dist.	5464 Nov 07 06:40	16° \mathbb{M} 19'32	1.72645 AU
evening set	5462 Jun 17 03:38	8° \mathcal{C} 06'08					
inferior conj	5462 Jun 23 02:25	4° \mathcal{C} 30'38	2°06'22	superior conj	5464 Nov 09 23:33	19° \mathbb{M} 40'51	1°13'22
minimum elong	5462 Jun 23 07:03	4° \mathcal{C} 23'24	2°04'58	minimum elong	5464 Nov 10 08:09	20° \mathbb{M} 07'33	1°13'10
min. Earth dist.	5462 Jun 22 20:06	4° \mathcal{C} 40'31	0.28187 AU		5464 Nov 18 07:00	0° \mathcal{A}	
morning rise	5462 Jun 29 11:07	0° \mathcal{C} 43'13			5464 Dec 12 09:44	0° \mathcal{Z}	
	5462 Jun 30 20:12	30° κ \mathbb{I}		desc. node	5464 Dec 16 13:35	5° \mathcal{Z} 10'56	
desc. node	5462 Jul 01 18:22	29° \mathbb{I} 32'51		evening rise	5464 Dec 18 09:45	7° \mathcal{Z} 28'30	
direct	5462 Jul 14 07:31	26° \mathbb{I} 27'43			5465 Jan 05 11:17	0° \approx	
greatest brilliancy	5462 Jul 24 03:15	28° \mathbb{I} 13'15	-4.7m		5465 Jan 29 12:10	0° \mathcal{H}	
	5462 Jul 28 12:27	0° \mathcal{C}			5465 Feb 22 13:44	0° Υ	
morning max el	5462 Sep 01 01:14	26° \mathcal{C} 16'02	45°42'49		5465 Mar 18 19:04	0° \mathcal{B}	
	5462 Sep 04 21:56	0° \mathcal{Q}		asc. node	5465 Apr 08 14:50	25° \mathcal{B} 27'06	
	5462 Oct 03 12:26	0° \mathbb{P}			5465 Apr 12 09:06	0° \mathbb{I}	
asc. node	5462 Oct 22 19:57	21° \mathbb{P} 48'14			5465 May 07 15:33	0° \mathcal{C}	
	5462 Oct 29 21:36	0° \mathcal{L}			5465 Jun 03 05:49	0° \mathcal{Q}	
	5462 Nov 24 04:15	0° \mathbb{M}		evening max el	5465 Jun 22 11:31	19° \mathcal{Q} 54'46	45°49'10
	5462 Dec 18 19:21	0° \mathcal{A}			5465 Jul 03 07:22	0° \mathbb{P}	
	5463 Jan 12 01:19	0° \mathcal{Z}		desc. node	5465 Jul 29 06:29	17° \mathbb{P} 48'25	
	5463 Feb 05 02:05	0° \approx		greatest brilliancy	5465 Jul 30 18:16	18° \mathbb{P} 23'58	-4.7m
desc. node	5463 Feb 11 11:14	7° \approx 59'36		retrograde	5465 Aug 10 14:53	20° \mathbb{P} 32'35	
	5463 Mar 01 00:01	0° \mathcal{H}		evening set	5465 Aug 27 02:27	15° \mathbb{P} 21'30	
morning set	5463 Mar 01 13:05	0° \mathcal{H} 41'00		inferior conj	5465 Sep 01 04:18	12° \mathbb{P} 15'43	-6°55'56
	5463 Mar 24 20:50	0° Υ		minimum elong	5465 Aug 31 18:48	12° \mathbb{P} 30'36	6°54'18
				min. Earth dist.	5465 Aug 31 21:14	12° \mathbb{P} 26'47	0.29111 AU

morning rise	5465 Sep 05 11:11	9° \mathbb{M} 37'24			5468 Apr 25 19:07	0° \mathbb{I}		
direct	5465 Sep 22 17:43	3° \mathbb{M} 58'25		asc. node	5468 May 06 02:44	12° \mathbb{I} 44'57		
greatest brilliancy	5465 Oct 03 01:27	5° \mathbb{M} 53'19	-4.7m		5468 May 20 04:13	0° \mathfrak{S}		
	5465 Nov 06 07:21	0° \mathfrak{L}			5468 Jun 13 23:16	0° Ω		
morning max el	5465 Nov 10 20:36	4° \mathfrak{L} 20'43	45°57'29		5468 Jul 09 09:37	0° \mathbb{M}		
asc. node	5465 Nov 19 07:45	12° \mathfrak{L} 49'50			5468 Aug 04 23:09	0° \mathfrak{L}		
	5465 Dec 05 08:51	0° \mathbb{M}		desc. node	5468 Aug 25 18:09	21° \mathfrak{L} 50'08		
	5465 Dec 31 13:16	0° \mathfrak{X}		evening max el	5468 Sep 01 11:14	28° \mathfrak{L} 24'05	45°35'55	
	5466 Jan 25 13:57	0° \mathfrak{Z}			5468 Sep 03 03:40	0° \mathbb{M}		
	5466 Feb 19 01:14	0° \approx		greatest brilliancy	5468 Oct 10 15:30	26° \mathbb{M} 23'45	-4.7m	
desc. node	5466 Mar 10 23:10	24° \approx 40'56		retrograde	5468 Oct 20 02:12	28° \mathbb{M} 00'04		
	5466 Mar 15 05:45	0° \mathfrak{H}		evening set	5468 Nov 06 08:42	22° \mathbb{M} 23'15		
	5466 Apr 08 07:04	0° \mathbb{Y}		inferior conj	5468 Nov 10 06:32	19° \mathbb{M} 59'56	-7°29'49	
	5466 May 02 07:45	0° \mathfrak{B}		minimum elong	5468 Nov 10 15:33	19° \mathbb{M} 45'55	7°28'26	
morning set	5466 May 16 07:36	17° \mathfrak{B} 26'34		min. Earth dist.	5468 Nov 11 03:48	19° \mathbb{M} 26'52	0.28327 AU	
	5466 May 26 09:45	0° \mathbb{I}		morning rise	5468 Nov 14 22:04	17° \mathbb{M} 10'11		
	5466 Jun 19 14:10	0° \mathfrak{S}		direct	5468 Dec 01 14:50	11° \mathbb{M} 49'34		
				greatest brilliancy	5468 Dec 12 17:56	14° \mathbb{M} 07'30	-4.8m	
superior conj	5466 Jun 23 20:28	5° \mathfrak{S} 16'30	-0°19'30	asc. node	5468 Dec 16 19:32	15° \mathbb{M} 57'51		
minimum elong	5466 Jun 24 00:50	5° \mathfrak{S} 29'59	0°19'20		5469 Jan 05 14:59	0° \mathfrak{X}		
max. Earth dist.	5466 Jun 26 10:52	8° \mathfrak{S} 29'24	1.72859 AU	morning max el	5469 Jan 20 23:46	14° \mathfrak{X} 30'57	46°42'05	
asc. node	5466 Jul 02 00:28	15° \mathfrak{S} 22'06			5469 Feb 04 16:31	0° \mathfrak{Z}		
	5466 Jul 13 21:04	0° Ω			5469 Mar 03 02:13	0° \approx		
evening rise	5466 Jul 31 05:19	21° Ω 21'27			5469 Mar 28 07:04	0° \mathfrak{H}		
	5466 Aug 07 06:06	0° \mathbb{M}		desc. node	5469 Apr 07 10:59	12° \mathfrak{H} 18'01		
	5466 Aug 31 17:23	0° \mathfrak{L}			5469 Apr 21 23:25	0° \mathbb{Y}		
	5466 Sep 25 07:54	0° \mathbb{M}			5469 May 16 10:26	0° \mathfrak{B}		
	5466 Oct 20 03:05	0° \mathfrak{X}			5469 Jun 09 19:54	0° \mathbb{I}		
desc. node	5466 Oct 21 15:49	1° \mathfrak{X} 50'32			5469 Jul 04 05:36	0° \mathfrak{S}		
	5466 Nov 14 04:34	0° \mathfrak{Z}		morning set	5469 Jul 25 17:25	26° \mathfrak{S} 24'20		
	5466 Dec 09 15:21	0° \approx			5469 Jul 28 15:38	0° Ω		
	5467 Jan 04 20:37	0° \mathfrak{H}		asc. node	5469 Jul 29 12:18	1° Ω 03'29		
evening max el	5467 Jan 28 01:07	24° \mathfrak{H} 49'59	47°06'46		5469 Aug 22 01:17	0° \mathbb{M}		
	5467 Feb 02 05:54	0° \mathbb{Y}		max. Earth dist.	5469 Aug 30 20:32	10° \mathbb{M} 49'52	1.73434 AU	
asc. node	5467 Feb 11 17:17	8° \mathbb{Y} 50'07						
greatest brilliancy	5467 Mar 09 18:13	26° \mathbb{Y} 15'22	-4.9m	superior conj	5469 Aug 31 13:59	11° \mathbb{M} 43'36	1°08'28	
retrograde	5467 Mar 19 19:45	28° \mathbb{Y} 11'27		minimum elong	5469 Aug 31 05:16	11° \mathbb{M} 16'45	1°08'12	
evening set	5467 Apr 06 22:16	21° \mathbb{Y} 52'39			5469 Sep 15 10:01	0° \mathfrak{L}		
min. Earth dist.	5467 Apr 09 04:27	20° \mathbb{Y} 29'33	0.27280 AU	evening rise	5469 Oct 06 16:59	26° \mathfrak{L} 14'25		
inferior conj	5467 Apr 09 13:35	20° \mathbb{Y} 15'27	9°04'17		5469 Oct 09 18:10	0° \mathbb{M}		
minimum elong	5467 Apr 09 14:35	20° \mathbb{Y} 13'53	9°04'16		5469 Nov 03 02:30	0° \mathfrak{X}		
morning rise	5467 Apr 12 07:02	18° \mathbb{Y} 35'16		desc. node	5469 Nov 18 03:43	18° \mathfrak{X} 31'44		
direct	5467 Apr 30 05:02	12° \mathbb{Y} 26'45			5469 Nov 27 11:35	0° \mathfrak{Z}		
greatest brilliancy	5467 May 09 12:58	14° \mathbb{Y} 05'24	-4.8m		5469 Dec 21 21:44	0° \approx		
desc. node	5467 Jun 03 08:39	29° \mathbb{Y} 41'45			5470 Jan 15 10:03	0° \mathfrak{H}		
	5467 Jun 03 17:18	0° \mathfrak{B}			5470 Feb 09 04:21	0° \mathbb{Y}		
morning max el	5467 Jun 18 23:30	14° \mathfrak{B} 00'43	46°17'30		5470 Mar 06 13:53	0° \mathfrak{B}		
	5467 Jul 04 14:45	0° \mathbb{I}		asc. node	5470 Mar 11 04:56	5° \mathfrak{B} 19'22		
	5467 Jul 31 21:39	0° \mathfrak{S}			5470 Apr 02 13:30	0° \mathbb{I}		
	5467 Aug 26 23:18	0° Ω		evening max el	5470 Apr 10 07:51	8° \mathbb{I} 00'11	46°44'59	
	5467 Sep 21 08:39	0° \mathbb{M}			5470 May 05 04:47	0° \mathfrak{S}		
asc. node	5467 Sep 24 09:59	3° \mathbb{M} 39'11		greatest brilliancy	5470 May 19 19:07	8° \mathfrak{S} 17'03	-4.8m	
	5467 Oct 16 06:03	0° \mathfrak{L}		retrograde	5470 May 30 12:46	10° \mathfrak{S} 25'13		
	5467 Nov 09 18:14	0° \mathbb{M}		evening set	5470 Jun 14 20:46	5° \mathfrak{S} 49'06		
	5467 Dec 03 23:55	0° \mathfrak{X}		inferior conj	5470 Jun 20 17:37	2° \mathfrak{S} 16'20	2°27'13	
morning set	5467 Dec 14 00:24	12° \mathfrak{X} 28'18		minimum elong	5470 Jun 20 22:58	2° \mathfrak{S} 07'58	2°25'37	
	5467 Dec 28 01:26	0° \mathfrak{Z}		min. Earth dist.	5470 Jun 20 12:05	2° \mathfrak{S} 25'00	0.28154 AU	
desc. node	5468 Jan 14 01:26	21° \mathfrak{Z} 16'52			5470 Jun 24 10:13	30° \mathfrak{R} \mathbb{I}		
max. Earth dist.	5468 Jan 20 14:51	29° \mathfrak{Z} 30'15	1.71403 AU	morning rise	5470 Jun 27 01:44	28° \mathbb{I} 29'22		
	5468 Jan 21 00:20	0° \approx		desc. node	5470 Jun 30 20:31	26° \mathbb{I} 38'36		
				direct	5470 Jul 11 21:58	24° \mathbb{I} 13'56		
superior conj	5468 Jan 22 15:07	2° \approx 01'38	-0°20'34	greatest brilliancy	5470 Jul 21 18:14	25° \mathbb{I} 59'34	-4.7m	
minimum elong	5468 Jan 22 09:56	1° \approx 45'21	0°20'18		5470 Jul 30 10:42	0° \mathfrak{S}		
	5468 Feb 13 21:35	0° \mathfrak{H}		morning max el	5470 Aug 29 15:10	24° \mathfrak{S} 01'00	45°43'15	
evening rise	5468 Mar 03 08:13	23° \mathfrak{H} 10'59			5470 Sep 04 18:37	0° Ω		
	5468 Mar 08 18:25	0° \mathbb{Y}			5470 Oct 03 03:27	0° \mathbb{M}		
	5468 Apr 01 16:46	0° \mathfrak{B}		asc. node	5470 Oct 21 21:59	21° \mathbb{M} 15'39		

	5470 Oct 29 10:29	0°♄			5473 Jun 02 22:32	0°♄	
	5470 Nov 23 16:08	0°♍		evening max el	5473 Jun 20 03:32	17°♄44'20	45°50'38
	5470 Dec 18 06:43	0°♊			5473 Jul 03 11:21	0°♎	
	5471 Jan 11 12:24	0°♈		desc. node	5473 Jul 28 08:24	16°♎13'19	
	5471 Feb 04 13:00	0°♉		greatest brilliancy	5473 Jul 28 09:03	16°♎13'57	-4.7m
desc. node	5471 Feb 10 13:14	7°♉31'44		retrograde	5473 Aug 08 07:53	18°♎24'22	
morning set	5471 Feb 26 23:18	28°♉08'23		evening set	5473 Aug 24 15:50	13°♎17'12	
	5471 Feb 28 10:50	0°♋		inferior conj	5473 Aug 29 20:38	10°♎07'10	-6°43'58
	5471 Mar 24 07:34	0°♌		minimum elong	5473 Aug 29 10:57	10°♎22'19	6°42'12
				min. Earth dist.	5473 Aug 29 12:32	10°♎19'50	0.29101 AU
superior conj	5471 Apr 09 02:15	19°♌49'27	-1°27'10	morning rise	5473 Sep 03 06:11	7°♎25'09	
minimum elong	5471 Apr 09 02:56	19°♌51'37	1°27'10	direct	5473 Sep 20 10:13	1°♎50'06	
max. Earth dist.	5471 Apr 12 00:30	23°♌29'48	1.71412 AU	greatest brilliancy	5473 Sep 30 16:40	3°♎44'14	-4.7m
	5471 Apr 17 04:57	0°♌			5473 Nov 06 06:29	0°♄	
	5471 May 11 04:47	0°♍		morning max el	5473 Nov 08 13:01	2°♄11'12	45°56'12
evening rise	5471 May 19 07:29	10°♍05'55		asc. node	5473 Nov 18 09:50	12°♄06'34	
asc. node	5471 Jun 03 14:41	29°♍04'45			5473 Dec 05 00:35	0°♍	
	5471 Jun 04 08:33	0°♎			5473 Dec 31 02:38	0°♊	
	5471 Jun 28 17:12	0°♄			5474 Jan 25 02:15	0°♈	
	5471 Jul 23 07:45	0°♎			5474 Feb 18 12:57	0°♉	
	5471 Aug 17 06:13	0°♄		desc. node	5474 Mar 10 01:02	24°♉11'22	
	5471 Sep 11 16:42	0°♍			5474 Mar 14 17:05	0°♋	
desc. node	5471 Sep 23 05:54	13°♍20'40			5474 Apr 07 18:08	0°♌	
	5471 Oct 07 22:56	0°♊			5474 May 01 18:36	0°♌	
	5471 Nov 04 20:07	0°♈		morning set	5474 May 13 21:16	15°♌06'08	
evening max el	5471 Nov 13 17:43	8°♈53'18	46°19'30		5474 May 25 20:26	0°♍	
	5471 Dec 08 06:26	0°♉			5474 Jun 19 00:44	0°♎	
greatest brilliancy	5471 Dec 23 18:32	8°♉27'00	-4.9m				
retrograde	5472 Jan 02 09:55	10°♉11'28		superior conj	5474 Jun 21 12:05	3°♎03'43	-0°22'52
asc. node	5472 Jan 14 07:29	7°♉21'54		minimum elong	5474 Jun 21 17:11	3°♎19'28	0°22'38
evening set	5472 Jan 16 18:37	6°♉08'47		max. Earth dist.	5474 Jun 24 06:26	6°♎28'57	1.72816 AU
inferior conj	5472 Jan 23 01:17	2°♉29'36	2°14'51	asc. node	5474 Jul 01 02:28	14°♎55'51	
minimum elong	5472 Jan 22 20:12	2°♉37'21	2°13'15		5474 Jul 13 07:34	0°♄	
min. Earth dist.	5472 Jan 23 03:13	2°♉26'39	0.26752 AU	evening rise	5474 Jul 28 23:17	19°♄16'43	
	5472 Jan 27 05:02	30°♋♈			5474 Aug 06 16:40	0°♎	
morning rise	5472 Jan 28 21:23	29°♈03'22			5474 Aug 31 04:10	0°♄	
direct	5472 Feb 12 14:39	24°♈44'39			5474 Sep 24 19:03	0°♍	
greatest brilliancy	5472 Feb 22 21:04	26°♈43'48	-4.9m		5474 Oct 19 14:50	0°♊	
	5472 Feb 29 20:10	0°♉		desc. node	5474 Oct 20 17:52	1°♊21'16	
morning max el	5472 Apr 03 02:51	27°♉39'35	46°57'24		5474 Nov 13 17:13	0°♈	
	5472 Apr 05 10:13	0°♋			5474 Dec 09 05:29	0°♉	
	5472 May 03 01:55	0°♌			5475 Jan 04 13:40	0°♋	
desc. node	5472 May 04 23:00	2°♌07'51		evening max el	5475 Jan 25 16:00	22°♋29'07	47°06'09
	5472 May 29 00:27	0°♌			5475 Feb 02 07:23	0°♌	
	5472 Jun 23 07:19	0°♍		asc. node	5475 Feb 10 19:11	7°♌44'51	
	5472 Jul 18 07:15	0°♎		greatest brilliancy	5475 Mar 07 07:25	23°♌49'59	-4.9m
	5472 Aug 12 02:57	0°♄		retrograde	5475 Mar 17 09:43	25°♌46'12	
asc. node	5472 Aug 26 00:07	16°♄52'01		evening set	5475 Apr 04 11:02	19°♌28'37	
	5472 Sep 05 18:33	0°♎		min. Earth dist.	5475 Apr 06 16:43	18°♌06'12	0.27245 AU
	5472 Sep 30 05:45	0°♄		inferior conj	5475 Apr 07 02:43	17°♌50'44	9°05'16
morning set	5472 Oct 01 23:27	2°♄08'18		minimum elong	5475 Apr 07 02:47	17°♌50'37	9°05'15
	5472 Oct 24 13:02	0°♍		morning rise	5475 Apr 09 18:40	16°♌12'49	
max. Earth dist.	5472 Nov 05 02:09	14°♍18'20	1.72687 AU	direct	5475 Apr 27 18:26	10°♌02'50	
				greatest brilliancy	5475 May 07 00:41	11°♌40'17	-4.9m
superior conj	5472 Nov 07 15:39	17°♍29'06	1°15'03	desc. node	5475 Jun 02 10:41	28°♌37'42	
minimum elong	5472 Nov 07 23:51	17°♍54'32	1°14'53		5475 Jun 04 00:38	0°♌	
	5472 Nov 17 17:34	0°♊		morning max el	5475 Jun 16 13:36	11°♌41'45	46°19'12
	5472 Dec 11 20:27	0°♈			5475 Jul 04 08:43	0°♍	
evening rise	5472 Dec 15 23:25	5°♈08'06			5475 Jul 31 11:53	0°♎	
desc. node	5472 Dec 15 15:38	4°♈43'54			5475 Aug 26 11:49	0°♄	
	5473 Jan 04 22:12	0°♉			5475 Sep 20 20:15	0°♎	
	5473 Jan 28 23:17	0°♋		asc. node	5475 Sep 23 12:04	3°♎10'52	
	5473 Feb 22 01:06	0°♌			5475 Oct 15 17:11	0°♄	
	5473 Mar 18 06:48	0°♌			5475 Nov 09 05:08	0°♍	
asc. node	5473 Apr 07 16:53	24°♌56'09			5475 Dec 03 10:45	0°♊	
	5473 Apr 11 21:30	0°♍		morning set	5475 Dec 11 14:54	10°♊10'18	
	5473 May 07 05:14	0°♎			5475 Dec 27 12:15	0°♈	

desc. node	5476 Jan 13 03:24	20°  49'05			5478 Jun 18 09:35	30°  R II	
max. Earth dist.	5476 Jan 17 21:43	26°  47'19	1.71434 AU	morning rise	5478 Jun 24 16:10	26°  II 15'07	
				desc. node	5478 Jun 29 22:28	23°  II 48'06	
superior conj	5476 Jan 20 02:32	29°  32'53	-0°16'46	direct	5478 Jul 09 12:01	21°  II 59'08	
minimum elong	5476 Jan 19 22:17	29°  319'35	0°16'32	greatest brilliancy	5478 Jul 19 09:26	23°  II 45'26	-4.7m
	5476 Jan 20 11:10	0°  ≈			5478 Jul 31 18:19	0°  ☾	
	5476 Feb 13 08:29	0°  ✕		morning max el	5478 Aug 27 05:51	21°  ☾ 47'05	45°43'54
evening rise	5476 Feb 29 18:39	20°  ✕ 38'32			5478 Sep 04 14:49	0°  ♁	
	5476 Mar 08 05:24	0°  Υ			5478 Oct 02 18:25	0°  ♐	
	5476 Apr 01 03:52	0°  ♄		asc. node	5478 Oct 21 00:04	20°  ♑ 42'59	
	5476 Apr 25 06:24	0°  II			5478 Oct 28 23:26	0°  ♒	
asc. node	5476 May 05 04:50	12°  II 16'21			5478 Nov 23 04:08	0°  ♓	
	5476 May 19 15:47	0°  ☾			5478 Dec 17 18:15	0°  ♊	
	5476 Jun 13 11:25	0°  ♈			5479 Jan 10 23:42	0°  ♋	
	5476 Jul 08 22:54	0°  ♎			5479 Feb 04 00:12	0°  ≈	
	5476 Aug 04 14:59	0°  ♊		desc. node	5479 Feb 09 15:12	7°  ≈ 02'51	
desc. node	5476 Aug 24 20:08	21°  ♊ 04'39		greatest brilliancy	5479 Feb 16 17:53	15°  ≈ 58'06	-3.9m
evening max el	5476 Aug 30 01:40	26°  ♊ 10'17	45°35'15	morning set	5479 Feb 24 09:11	25°  ≈ 33'34	
	5476 Sep 03 03:24	0°  ♓			5479 Feb 27 21:59	0°  ✕	
greatest brilliancy	5476 Oct 08 06:02	24°  ♓ 10'45	-4.7m		5479 Mar 23 18:41	0°  Υ	
retrograde	5476 Oct 17 16:12	25°  ♓ 46'48					
evening set	5476 Nov 04 02:20	20°  ♓ 05'50		superior conj	5479 Apr 06 13:15	17°  Υ 18'36	-1°27'12
inferior conj	5476 Nov 07 21:45	17°  ♓ 45'55	-7°39'46	minimum elong	5479 Apr 06 12:50	17°  Υ 17'18	1°27'12
minimum elong	5476 Nov 08 06:18	17°  ♓ 32'34	7°38'32	max. Earth dist.	5479 Apr 09 03:44	20°  Υ 34'43	1.71377 AU
min. Earth dist.	5476 Nov 08 18:46	17°  ♓ 13'09	0.28391 AU		5479 Apr 16 16:00	0°  ♄	
morning rise	5476 Nov 12 09:56	15°  ♓ 00'35			5479 May 10 15:49	0°  II	
direct	5476 Nov 29 06:11	9°  ♓ 34'41		evening rise	5479 May 16 20:00	7°  II 41'16	
greatest brilliancy	5476 Dec 10 09:36	11°  ♓ 52'08	-4.8m	asc. node	5479 Jun 02 16:38	28°  II 36'30	
asc. node	5476 Dec 15 21:33	14°  ♓ 27'15			5479 Jun 03 19:37	0°  ☾	
	5477 Jan 05 20:37	0°  ♊			5479 Jun 28 04:26	0°  ♈	
morning max el	5477 Jan 18 13:39	12°  ♊ 09'21	46°40'37		5479 Jul 22 19:18	0°  ♎	
	5477 Feb 04 10:20	0°  ♋			5479 Aug 16 18:22	0°  ♊	
	5477 Mar 02 16:46	0°  ≈			5479 Sep 11 05:54	0°  ♓	
	5477 Mar 27 20:07	0°  ✕		desc. node	5479 Sep 22 08:00	12°  ♓ 46'41	
desc. node	5477 Apr 06 13:08	11°  ✕ 46'05			5479 Oct 07 14:17	0°  ♊	
	5477 Apr 21 11:38	0°  Υ			5479 Nov 04 16:44	0°  ♋	
	5477 May 15 22:05	0°  ♄		evening max el	5479 Nov 11 07:21	6°  ♋ 33'01	46°17'37
	5477 Jun 09 07:10	0°  II			5479 Dec 09 08:40	0°  ≈	
	5477 Jul 03 16:34	0°  ☾		greatest brilliancy	5479 Dec 21 07:13	6°  ≈ 01'30	-4.8m
morning set	5477 Jul 23 10:33	24°  ☾ 16'23		retrograde	5479 Dec 30 22:52	7°  ≈ 46'05	
	5477 Jul 28 02:24	0°  ♈		asc. node	5480 Jan 13 09:21	4°  ≈ 11'16	
asc. node	5477 Jul 28 14:15	0°  ♈ 36'24		evening set	5480 Jan 14 06:58	3°  ≈ 43'21	
	5477 Aug 21 11:56	0°  ♎		inferior conj	5480 Jan 20 14:02	0°  ≈ 03'47	1°51'08
max. Earth dist.	5477 Aug 28 15:18	8°  ♎ 47'14	1.73435 AU	minimum elong	5480 Jan 20 09:49	0°  ≈ 10'14	1°49'48
				min. Earth dist.	5480 Jan 20 17:04	29°  ♋ 59'10	0.26779 AU
superior conj	5477 Aug 29 08:14	9°  ♎ 39'19	1°06'31		5480 Jan 20 16:31	30°  R ♋	
minimum elong	5477 Aug 28 23:20	9°  ♎ 11'56	1°06'14	morning rise	5480 Jan 26 12:14	26°  ♋ 35'01	
	5477 Sep 14 20:40	0°  ♊		direct	5480 Feb 10 04:03	22°  ♋ 18'04	
evening rise	5477 Oct 04 10:46	24°  ♊ 08'16		greatest brilliancy	5480 Feb 20 11:37	24°  ♋ 18'48	-4.9m
	5477 Oct 09 04:56	0°  ♓			5480 Mar 02 09:40	0°  ≈	
	5477 Nov 02 13:29	0°  ♊		morning max el	5480 Mar 31 17:38	25°  ≈ 17'50	46°57'50
desc. node	5477 Nov 17 05:47	18°  ♊ 03'38			5480 Apr 05 08:04	0°  ✕	
	5477 Nov 26 22:56	0°  ♋			5480 May 02 18:06	0°  Υ	
	5477 Dec 21 09:34	0°  ≈		desc. node	5480 May 04 01:00	1°  Υ 27'59	
	5478 Jan 14 22:34	0°  ✕			5480 May 28 14:21	0°  ♄	
	5478 Feb 08 17:52	0°  Υ			5480 Jun 22 19:59	0°  II	
	5478 Mar 06 05:15	0°  ♄			5480 Jul 17 19:09	0°  ☾	
asc. node	5478 Mar 10 07:00	4°  ♄ 40'01			5480 Aug 11 14:21	0°  ♈	
	5478 Apr 02 09:27	0°  II		asc. node	5480 Aug 25 02:10	16°  ♈ 24'13	
evening max el	5478 Apr 07 21:15	5°  II 37'38	46°46'46		5480 Sep 05 05:39	0°  ♎	
	5478 May 06 03:01	0°  ☾		morning set	5480 Sep 29 16:52	0°  ♊ 00'35	
greatest brilliancy	5478 May 17 12:03	6°  ☾ 02'37	-4.8m		5480 Sep 29 16:40	0°  ♊	
retrograde	5478 May 28 03:50	8°  ☾ 09'37			5480 Oct 23 23:54	0°  ♓	
evening set	5478 Jun 12 13:58	3°  ☾ 30'51		max. Earth dist.	5480 Nov 02 21:03	12°  ♓ 14'23	1.72723 AU
inferior conj	5478 Jun 18 08:48	0°  ☾ 01'13	2°47'56				
minimum elong	5478 Jun 18 14:50	29°  II 51'47	2°46'08	superior conj	5480 Nov 05 08:11	15°  ♓ 17'42	1°16'36
min. Earth dist.	5478 Jun 18 04:05	0°  ☾ 08'36	0.28119 AU	minimum elong	5480 Nov 05 15:55	15°  ♓ 41'42	1°16'27

	5480 Nov 17 04:29	0°♊		desc. node	5483 Jun 01 12:40	27°♊34'30	
	5480 Dec 11 07:29	0°♋			5483 Jun 04 06:02	0°♋	
evening rise	5480 Dec 13 13:36	2°♋48'26		morning max el	5483 Jun 14 02:49	9°♋19'36	46°20'39
desc. node	5480 Dec 14 17:34	4°♋15'31			5483 Jul 04 02:37	0°♌	
	5481 Jan 04 09:25	0°♍			5483 Jul 31 02:20	0°♍	
	5481 Jan 28 10:43	0°♎			5483 Aug 26 00:37	0°♎	
	5481 Feb 21 12:50	0°♏			5483 Sep 20 08:09	0°♏	
asc. node	5481 Mar 17 19:00	0°♐		asc. node	5483 Sep 22 14:08	2°♏41'37	
	5481 Apr 06 18:55	24°♐23'36			5483 Oct 15 04:33	0°♑	
	5481 Apr 11 10:27	0°♒			5483 Nov 08 16:16	0°♒	
	5481 May 06 19:37	0°♓			5483 Dec 02 21:46	0°♓	
	5481 Jun 02 16:14	0°♈		morning set	5483 Dec 09 05:27	7°♓51'54	
evening max el	5481 Jun 17 20:17	15°♈33'59	45°52'16		5483 Dec 26 23:15	0°♉	
	5481 Jul 03 18:06	0°♊		desc. node	5484 Jan 12 05:23	20°♉20'48	
greatest brilliancy	5481 Jul 26 00:17	14°♊02'58	-4.7m	max. Earth dist.	5484 Jan 15 04:00	24°♉02'04	1.71468 AU
desc. node	5481 Jul 27 10:22	14°♊33'28					
retrograde	5481 Aug 06 00:43	16°♊14'31		superior conj	5484 Jan 17 14:15	27°♉04'37	-0°12'57
evening set	5481 Aug 22 05:21	11°♊11'31		minimum elong	5484 Jan 17 10:58	26°♉54'18	0°12'47
min. Earth dist.	5481 Aug 27 03:50	8°♊11'30	0.29081 AU	behind sun begin	5484 Jan 16 18:59	26°♉04'13	
inferior conj	5481 Aug 27 12:56	7°♊57'14	-6°31'26	behind sun end	5484 Jan 18 02:57	27°♉44'24	
minimum elong	5481 Aug 27 03:09	8°♊12'33	6°29'34		5484 Jan 19 22:12	0°♊	
morning rise	5481 Sep 01 01:07	5°♊11'27			5484 Feb 12 19:33	0°♋	
	5481 Sep 14 02:09	30°♋00'		evening rise	5484 Feb 27 05:28	18°♋06'44	
direct	5481 Sep 18 02:57	29°♋40'40			5484 Mar 07 16:32	0°♌	
	5481 Sep 22 05:46	0°♌			5484 Mar 31 15:05	0°♍	
greatest brilliancy	5481 Sep 28 07:22	1°♌33'20	-4.7m		5484 Apr 24 17:46	0°♎	
morning max el	5481 Nov 06 05:09	0°♌00'10	45°54'58	asc. node	5484 May 04 06:46	11°♌46'53	
	5481 Nov 06 05:04	0°♍			5484 May 19 03:30	0°♏	
asc. node	5481 Nov 17 11:47	11°♍22'35			5484 Jun 12 23:46	0°♐	
	5481 Dec 04 16:25	0°♎			5484 Jul 08 12:31	0°♑	
	5481 Dec 30 16:11	0°♏			5484 Aug 04 07:25	0°♒	
	5482 Jan 24 14:45	0°♐		desc. node	5484 Aug 23 22:15	20°♒17'58	
	5482 Feb 18 00:53	0°♑		evening max el	5484 Aug 27 15:29	23°♒54'10	45°34'41
desc. node	5482 Mar 09 03:12	23°♑41'56			5484 Sep 03 04:45	0°♓	
	5482 Mar 14 04:39	0°♒		greatest brilliancy	5484 Oct 05 20:26	21°♓56'50	-4.7m
	5482 Apr 07 05:28	0°♓		retrograde	5484 Oct 15 06:20	23°♓33'05	
	5482 May 01 05:47	0°♈		evening set	5484 Nov 01 19:47	17°♓47'53	
morning set	5482 May 11 10:39	12°♈43'37		inferior conj	5484 Nov 05 12:56	15°♓31'25	-7°48'53
	5482 May 25 07:31	0°♉		minimum elong	5484 Nov 05 21:01	15°♓18'49	7°47'49
	5482 Jun 18 11:43	0°♊		min. Earth dist.	5484 Nov 06 09:49	14°♓58'51	0.28451 AU
				morning rise	5484 Nov 09 21:52	12°♓50'39	
superior conj	5482 Jun 19 03:11	0°♊47'52	-0°26'14	direct	5484 Nov 26 21:15	7°♓19'15	
minimum elong	5482 Jun 19 08:58	1°♊05'49	0°25'59	greatest brilliancy	5484 Dec 08 01:41	9°♓37'03	-4.8m
max. Earth dist.	5482 Jun 22 01:40	4°♊26'02	1.72773 AU	asc. node	5484 Dec 14 23:31	12°♓59'16	
asc. node	5482 Jun 30 04:24	14°♊27'59			5485 Jan 06 00:27	0°♋	
	5482 Jul 12 18:31	0°♌		morning max el	5485 Jan 16 03:41	9°♋47'58	46°39'13
evening rise	5482 Jul 26 16:39	17°♌08'49			5485 Feb 04 03:48	0°♍	
	5482 Aug 06 03:39	0°♎			5485 Mar 02 07:12	0°♏	
	5482 Aug 30 15:19	0°♏			5485 Mar 27 09:07	0°♐	
	5482 Sep 24 06:35	0°♐		desc. node	5485 Apr 05 15:04	11°♐13'30	
	5482 Oct 19 02:58	0°♑			5485 Apr 20 23:49	0°♒	
desc. node	5482 Oct 19 19:54	0°♑50'51			5485 May 15 09:43	0°♓	
	5482 Nov 13 06:17	0°♒			5485 Jun 08 18:24	0°♈	
	5482 Dec 08 20:05	0°♓			5485 Jul 03 03:31	0°♉	
	5483 Jan 04 07:21	0°♈		morning set	5485 Jul 21 03:36	22°♉08'03	
evening max el	5483 Jan 23 06:39	20°♈07'01	47°05'27	asc. node	5485 Jul 27 16:19	0°♊09'38	
	5483 Feb 02 10:33	0°♊			5485 Jul 27 13:11	0°♋	
asc. node	5483 Feb 09 21:18	6°♊37'49			5485 Aug 20 22:39	0°♌	
greatest brilliancy	5483 Mar 04 21:13	21°♊25'00	-4.9m	max. Earth dist.	5485 Aug 26 09:57	6°♌44'00	1.73442 AU
retrograde	5483 Mar 14 23:16	23°♊20'35					
evening set	5483 Apr 01 23:19	17°♊05'26		superior conj	5485 Aug 27 02:14	7°♊34'07	1°04'27
min. Earth dist.	5483 Apr 04 05:27	15°♊42'15	0.27212 AU	minimum elong	5485 Aug 26 17:13	7°♊06'22	1°04'10
inferior conj	5483 Apr 04 15:59	15°♊25'55	9°05'06		5485 Sep 14 07:25	0°♍	
minimum elong	5483 Apr 04 15:07	15°♊27'17	9°05'05	evening rise	5485 Oct 02 04:21	22°♍01'15	
morning rise	5483 Apr 07 07:02	13°♋49'14			5485 Oct 08 15:47	0°♎	
direct	5483 Apr 25 07:38	7°♋38'48			5485 Nov 02 00:33	0°♏	
greatest brilliancy	5483 May 04 13:04	9°♋15'24	-4.9m	desc. node	5485 Nov 16 07:40	17°♋34'49	

	5485 Nov 26 10:19	0°♁			5488 May 02 09:43	0°♈		
	5485 Dec 20 21:27	0°♊		desc. node	5488 May 03 02:58	0°♈49'21		
	5486 Jan 14 11:07	0°♋			5488 May 28 03:49	0°♉		
	5486 Feb 08 07:27	0°♌			5488 Jun 22 08:16	0°♊		
	5486 Mar 05 20:47	0°♍			5488 Jul 17 06:42	0°♋		
asc. node	5486 Mar 09 09:03	4°♍00'26			5488 Aug 11 01:25	0°♌		
	5486 Apr 02 05:56	0°♎		asc. node	5488 Aug 24 04:15	15°♌57'28		
evening max el	5486 Apr 05 11:00	3°♎16'08 46°48'37			5488 Sep 04 16:23	0°♍		
	5486 May 07 09:34	0°♏		morning set	5488 Sep 27 10:25	27°♍54'21		
greatest brilliancy	5486 May 15 04:29	3°♏47'55 -4.8m			5488 Sep 29 03:15	0°♎		
retrograde	5486 May 25 19:21	5°♏54'35			5488 Oct 23 10:28	0°♏		
evening set	5486 Jun 10 07:18	1°♏12'44		max. Earth dist.	5488 Oct 31 14:30	10°♏06'54 1.72765 AU		
	5486 Jun 12 09:23	30°♐♊						
inferior conj	5486 Jun 16 00:01	27°♐46'32 3°08'16		superior conj	5488 Nov 03 00:46	13°♏07'26 1°18'02		
minimum elong	5486 Jun 16 06:42	27°♐36'05 3°06'18		minimum elong	5488 Nov 03 07:59	13°♏29'48 1°17'54		
min. Earth dist.	5486 Jun 15 19:53	27°♐53'00 0.28086 AU			5488 Nov 16 15:08	0°♑		
morning rise	5486 Jun 22 06:29	24°♐01'48			5488 Dec 10 18:18	0°♒		
desc. node	5486 Jun 29 00:25	21°♐02'57		evening rise	5488 Dec 11 03:34	0°♒28'50		
direct	5486 Jul 07 02:09	19°♐44'41		desc. node	5488 Dec 13 19:38	3°♒48'14		
greatest brilliancy	5486 Jul 17 00:29	21°♐31'46 -4.8m			5489 Jan 03 20:25	0°♓		
	5486 Aug 01 16:45	0°♑			5489 Jan 27 21:56	0°♋		
morning max el	5486 Aug 24 21:22	19°♑35'41 45°44'26			5489 Feb 21 00:20	0°♌		
	5486 Sep 04 10:14	0°♒			5489 Mar 17 06:56	0°♍		
	5486 Oct 02 09:05	0°♎		asc. node	5489 Apr 05 20:50	23°♍51'36		
asc. node	5486 Oct 20 01:57	20°♎10'09			5489 Apr 10 23:09	0°♊		
	5486 Oct 28 12:15	0°♏			5489 May 06 09:47	0°♋		
	5486 Nov 22 16:03	0°♌			5489 Jun 02 09:56	0°♌		
	5486 Dec 17 05:40	0°♑		evening max el	5489 Jun 15 13:03	13°♌24'38 45°53'51		
	5487 Jan 10 10:52	0°♒			5489 Jul 04 02:51	0°♎		
	5487 Feb 03 11:15	0°♓		greatest brilliancy	5489 Jul 23 16:14	11°♎53'58 -4.7m		
desc. node	5487 Feb 08 17:17	6°♓34'54		desc. node	5489 Jul 26 12:31	12°♎51'25		
greatest brilliancy	5487 Feb 18 06:57	18°♓35'15 -3.9m		retrograde	5489 Aug 03 17:15	14°♎05'46		
morning set	5487 Feb 21 19:07	22°♓59'32		evening set	5489 Aug 19 19:02	9°♎07'04		
	5487 Feb 27 08:58	0°♋		inferior conj	5489 Aug 25 05:17	5°♎48'38 -6°18'19		
	5487 Mar 23 05:36	0°♌		minimum elong	5489 Aug 24 19:26	6°♎04'05 6°16'22		
				min. Earth dist.	5489 Aug 24 19:26	6°♎04'06 0.29058 AU		
superior conj	5487 Apr 04 00:12	14°♌48'02 -1°27'02		morning rise	5489 Aug 29 20:05	2°♎58'57		
minimum elong	5487 Apr 03 22:42	14°♌43'19 1°27'03			5489 Sep 04 15:16	30°♐♌		
max. Earth dist.	5487 Apr 06 09:12	17°♌47'02 1.71347 AU		direct	5489 Sep 15 19:36	27°♌32'44		
	5487 Apr 16 02:53	0°♍		greatest brilliancy	5489 Sep 25 22:07	29°♌23'44 -4.7m		
	5487 May 10 02:40	0°♎			5489 Sep 27 12:54	0°♏		
evening rise	5487 May 14 08:32	5°♎17'11		morning max el	5489 Nov 03 20:24	27°♎48'19 45°53'41		
asc. node	5487 Jun 01 18:37	28°♎08'57			5489 Nov 06 02:17	0°♏		
	5487 Jun 03 06:31	0°♑		asc. node	5489 Nov 16 13:48	10°♏40'34		
	5487 Jun 27 15:28	0°♒			5489 Dec 04 07:36	0°♐		
	5487 Jul 22 06:39	0°♎			5489 Dec 30 05:19	0°♑		
	5487 Aug 16 06:18	0°♏			5490 Jan 24 02:56	0°♒		
	5487 Sep 10 19:01	0°♌			5490 Feb 17 12:33	0°♓		
desc. node	5487 Sep 21 09:58	12°♌12'37		desc. node	5490 Mar 08 05:11	23°♓12'45		
	5487 Oct 07 05:43	0°♑			5490 Mar 13 15:58	0°♋		
	5487 Nov 04 13:58	0°♒			5490 Apr 06 16:31	0°♌		
evening max el	5487 Nov 08 21:48	4°♒15'09 46°15'36			5490 Apr 30 16:38	0°♍		
	5487 Dec 10 21:43	0°♓		morning set	5490 May 08 23:45	10°♍21'12		
greatest brilliancy	5487 Dec 18 19:37	3°♓35'58 -4.8m			5490 May 24 18:13	0°♎		
retrograde	5487 Dec 28 11:51	5°♓20'34						
evening set	5488 Jan 11 19:29	1°♓17'51		superior conj	5490 Jun 16 18:10	28°♎32'50 -0°29'34		
asc. node	5488 Jan 12 11:28	0°♓56'24		minimum elong	5490 Jun 17 00:39	28°♎52'54 0°29'17		
	5488 Jan 14 03:40	30°♐♒			5490 Jun 17 22:19	0°♑		
inferior conj	5488 Jan 18 02:37	27°♒38'00 1°27'10		max. Earth dist.	5490 Jun 19 21:16	2°♑25'17 1.72727 AU		
minimum elong	5488 Jan 17 23:17	27°♒43'05 1°26'07		asc. node	5490 Jun 29 06:30	14°♑01'46		
min. Earth dist.	5488 Jan 18 06:36	27°♒31'55 0.26803 AU			5490 Jul 12 05:05	0°♒		
morning rise	5488 Jan 24 02:43	24°♒06'54		evening rise	5490 Jul 24 10:02	15°♒02'00		
direct	5488 Feb 07 17:41	19°♒51'51			5490 Aug 05 14:17	0°♎		
greatest brilliancy	5488 Feb 18 01:32	21°♒53'25 -4.9m			5490 Aug 30 02:09	0°♏		
	5488 Mar 03 11:51	0°♓			5490 Sep 23 17:46	0°♌		
morning max el	5488 Mar 29 08:15	22°♓56'29 46°58'13		desc. node	5490 Oct 18 21:51	0°♑21'20		
	5488 Apr 05 04:51	0°♋			5490 Oct 18 14:44	0°♑		

	5490 Nov 12 19:01	0°♁			5493 Jun 08 05:30	0°♈	
	5490 Dec 08 10:29	0°♊			5493 Jul 02 14:19	0°♉	
	5491 Jan 04 01:09	0°♋		morning set	5493 Jul 18 20:24	19°♊59'19	
evening max el	5491 Jan 20 20:17	17°♋42'52 47°04'25		asc. node	5493 Jul 26 18:20	29°♊43'12	
	5491 Feb 02 15:15	0°♌			5493 Jul 26 23:48	0°♊	
asc. node	5491 Feb 08 23:19	5°♌29'08			5493 Aug 20 09:10	0°♋	
greatest brilliancy	5491 Mar 02 11:17	19°♌00'06 -4.9m					
retrograde	5491 Mar 12 12:03	20°♌54'34		superior conj	5493 Aug 24 20:08	5°♋29'07 1°02'19	
evening set	5491 Mar 30 10:44	14°♌42'52		minimum elong	5493 Aug 24 11:03	5°♋01'09 1°02'00	
inferior conj	5491 Apr 02 05:00	13°♌00'53 9°03'55		max. Earth dist.	5493 Aug 24 06:30	4°♋47'10 1.73444 AU	
minimum elong	5491 Apr 02 03:08	13°♌03'46 9°03'53			5493 Sep 13 17:58	0°♌	
min. Earth dist.	5491 Apr 01 18:19	13°♌17'27 0.27177 AU		evening rise	5493 Sep 29 22:07	19°♌55'29	
morning rise	5491 Apr 04 19:40	11°♌24'38			5493 Oct 08 02:28	0°♍	
direct	5491 Apr 22 20:01	5°♌14'22			5493 Nov 01 11:28	0°♎	
greatest brilliancy	5491 May 02 01:55	6°♌50'57 -4.9m		desc. node	5493 Nov 15 09:46	17°♎07'04	
desc. node	5491 May 31 14:43	26°♌33'37			5493 Nov 25 21:35	0°♏	
	5491 Jun 04 09:20	0°♐			5493 Dec 20 09:11	0°♐	
morning max el	5491 Jun 11 15:11	6°♐55'51 46°22'20			5494 Jan 13 23:31	0°♑	
	5491 Jul 03 19:46	0°♈			5494 Feb 07 20:54	0°♒	
	5491 Jul 30 16:14	0°♉			5494 Mar 05 12:18	0°♓	
	5491 Aug 25 12:58	0°♊		asc. node	5494 Mar 08 10:57	3°♓20'40	
	5491 Sep 19 19:39	0°♋			5494 Apr 02 02:57	0°♈	
asc. node	5491 Sep 21 16:00	2°♋12'55		evening max el	5494 Apr 03 01:33	0°♈57'07 46°50'14	
	5491 Oct 14 15:35	0°♌			5494 May 09 06:43	0°♉	
	5491 Nov 08 03:02	0°♍		greatest brilliancy	5494 May 12 20:11	1°♉32'13 -4.8m	
	5491 Dec 02 08:26	0°♎		retrograde	5494 May 23 11:05	3°♉39'10	
morning set	5491 Dec 06 20:27	5°♎35'59			5494 Jun 05 23:36	30°♊♈	
	5491 Dec 26 09:55	0°♏		evening set	5494 Jun 08 00:39	28°♊53'57	
desc. node	5492 Jan 11 07:30	19°♏53'56		inferior conj	5494 Jun 13 15:04	25°♊31'17 3°28'29	
max. Earth dist.	5492 Jan 12 13:11	21°♏26'54 1.71508 AU		minimum elong	5494 Jun 13 22:22	25°♊19'53 3°26'23	
				min. Earth dist.	5494 Jun 13 11:14	25°♊37'14 0.28057 AU	
superior conj	5492 Jan 15 02:18	24°♏38'25 -0°09'10		morning rise	5494 Jun 19 20:29	21°♊48'23	
minimum elong	5492 Jan 14 23:59	24°♏31'08 0°09'02		desc. node	5494 Jun 28 02:34	18°♊22'09	
behind sun begin	5492 Jan 14 02:33	23°♏23'59		direct	5494 Jul 04 16:47	17°♊29'41	
behind sun end	5492 Jan 15 21:24	25°♏38'17		greatest brilliancy	5494 Jul 14 15:05	19°♊17'16 -4.8m	
	5492 Jan 19 08:54	0°♐			5494 Aug 02 09:24	0°♉	
	5492 Feb 12 06:21	0°♑		morning max el	5494 Aug 22 13:30	17°♉25'47 45°45'04	
evening rise	5492 Feb 24 16:18	15°♑35'54			5494 Sep 04 05:05	0°♊	
	5492 Mar 07 03:26	0°♒			5494 Oct 01 23:31	0°♋	
	5492 Mar 31 02:07	0°♓		asc. node	5494 Oct 19 04:01	19°♋38'16	
	5492 Apr 24 04:59	0°♈			5494 Oct 28 00:53	0°♌	
asc. node	5492 May 03 08:45	11°♈18'10			5494 Nov 22 03:49	0°♍	
	5492 May 18 15:02	0°♉			5494 Dec 16 17:00	0°♎	
	5492 Jun 12 11:56	0°♊			5495 Jan 09 21:59	0°♏	
	5492 Jul 08 01:59	0°♋			5495 Feb 02 22:14	0°♐	
	5492 Aug 03 23:49	0°♌		desc. node	5495 Feb 07 19:15	6°♌06'43	
desc. node	5492 Aug 23 00:12	19°♌31'04		greatest brilliancy	5495 Feb 18 19:20	19°♌55'10 -3.9m	
evening max el	5492 Aug 25 05:21	21°♌39'14 45°34'18		morning set	5495 Feb 19 05:36	20°♌27'25	
	5492 Sep 03 07:04	0°♍			5495 Feb 26 19:52	0°♎	
greatest brilliancy	5492 Oct 03 10:22	19°♍43'45 -4.7m			5495 Mar 22 16:26	0°♏	
retrograde	5492 Oct 12 21:02	21°♍21'04					
evening set	5492 Oct 30 13:13	15°♍31'35		superior conj	5495 Apr 01 11:25	12°♏18'31 -1°26'43	
inferior conj	5492 Nov 03 04:17	13°♍18'22 -7°57'09		minimum elong	5495 Apr 01 08:51	12°♏10'28 1°26'43	
minimum elong	5492 Nov 03 11:50	13°♍06'37 7°56'15		max. Earth dist.	5495 Apr 03 18:32	15°♏11'39 1.71318 AU	
min. Earth dist.	5492 Nov 04 00:45	12°♍46'29 0.28511 AU			5495 Apr 15 13:40	0°♐	
morning rise	5492 Nov 07 10:04	10°♍42'20			5495 May 09 13:29	0°♑	
direct	5492 Nov 24 12:40	5°♍05'13		evening rise	5495 May 11 21:13	2°♑53'38	
greatest brilliancy	5492 Dec 05 17:53	7°♍23'38 -4.8m		asc. node	5495 May 31 20:42	27°♑41'44	
asc. node	5492 Dec 14 01:35	11°♍35'35			5495 Jun 02 17:25	0°♒	
	5493 Jan 06 02:14	0°♓			5495 Jun 27 02:33	0°♓	
morning max el	5493 Jan 13 18:38	7°♓30'09 46°37'53			5495 Jul 21 18:03	0°♔	
	5493 Feb 03 20:33	0°♏			5495 Aug 15 18:21	0°♕	
	5493 Mar 01 21:10	0°♐			5495 Sep 10 08:16	0°♖	
	5493 Mar 26 21:49	0°♑		desc. node	5495 Sep 20 11:56	11°♖38'19	
desc. node	5493 Apr 04 17:02	10°♑41'51			5495 Oct 06 21:25	0°♗	
	5493 Apr 20 11:46	0°♒			5495 Nov 04 12:03	0°♘	
	5493 May 14 21:11	0°♓		evening max el	5495 Nov 06 12:40	1°♘58'26 46°13'34	

	5495 Dec 13 06:56	0°♊		morning set	5498 May 06 12:48	7°♎57'41	
greatest brilliancy	5495 Dec 16 08:23	1°♊11'17	-4.8m		5498 May 24 05:13	0°♊	
retrograde	5495 Dec 26 00:41	2°♊55'19					
	5496 Jan 07 02:31	30°♎		superior conj	5498 Jun 14 09:20	26°♊17'29	-0°32'51
evening set	5496 Jan 09 08:24	28°♎52'37		minimum elong	5498 Jun 14 16:28	26°♊39'33	0°32'32
asc. node	5496 Jan 11 13:29	27°♎39'02			5498 Jun 17 09:12	0°♎	
inferior conj	5496 Jan 15 15:20	25°♎12'35	1°03'12	max. Earth dist.	5498 Jun 17 16:00	0°♎21'03	1.72676 AU
minimum elong	5496 Jan 15 12:54	25°♎16'18	1°02'26	asc. node	5498 Jun 28 08:29	13°♎34'24	
min. Earth dist.	5496 Jan 15 20:23	25°♎04'53	0.26829 AU		5498 Jul 11 15:55	0°♎	
morning rise	5496 Jan 21 17:06	21°♎39'12		evening rise	5498 Jul 22 03:34	12°♎54'52	
direct	5496 Feb 05 07:30	17°♎26'05			5498 Aug 05 01:11	0°♎	
greatest brilliancy	5496 Feb 15 15:35	19°♎28'04	-4.9m		5498 Aug 29 13:17	0°♎	
	5496 Mar 04 07:06	0°♊			5498 Sep 23 05:18	0°♎	
morning max el	5496 Mar 26 22:12	20°♊33'18	46°58'38	desc. node	5498 Oct 17 23:55	29°♎51'01	
	5496 Apr 05 00:58	0°♎			5498 Oct 18 02:55	0°♎	
desc. node	5496 May 02 05:04	0°♎11'24			5498 Nov 12 08:12	0°♎	
	5496 May 02 01:05	0°♎			5498 Dec 08 01:24	0°♊	
	5496 May 27 17:10	0°♎			5499 Jan 03 19:42	0°♎	
	5496 Jun 21 20:32	0°♊		evening max el	5499 Jan 18 08:56	15°♎15'28	47°03'27
	5496 Jul 16 18:18	0°♎			5499 Feb 02 22:25	0°♎	
	5496 Aug 10 12:35	0°♎		asc. node	5499 Feb 08 01:13	4°♎17'31	
asc. node	5496 Aug 23 06:08	15°♎29'43		greatest brilliancy	5499 Feb 28 01:24	16°♎34'23	-4.9m
	5496 Sep 04 03:17	0°♎		retrograde	5499 Mar 10 00:45	18°♎27'59	
morning set	5496 Sep 25 03:56	25°♎47'36		evening set	5499 Mar 27 21:40	12°♎20'13	
	5496 Sep 28 14:00	0°♎		inferior conj	5499 Mar 30 18:06	10°♎35'05	9°01'44
	5496 Oct 22 21:10	0°♎		minimum elong	5499 Mar 30 15:17	10°♎39'28	9°01'37
max. Earth dist.	5496 Oct 29 06:38	7°♎54'58	1.72803 AU	min. Earth dist.	5499 Mar 30 07:25	10°♎51'38	0.27147 AU
				morning rise	5499 Apr 02 08:59	8°♎58'29	
superior conj	5496 Oct 31 17:28	10°♎57'13	1°19'20	direct	5499 Apr 20 08:11	2°♎48'47	
minimum elong	5496 Nov 01 00:09	11°♎17'53	1°19'14	greatest brilliancy	5499 Apr 29 15:20	4°♎26'08	-4.9m
	5496 Nov 16 01:56	0°♎		desc. node	5499 May 30 16:46	25°♎33'11	
evening rise	5496 Dec 08 17:41	28°♎09'22			5499 Jun 04 11:33	0°♎	
	5496 Dec 10 05:15	0°♎		morning max el	5499 Jun 09 03:51	4°♎31'36	46°24'08
desc. node	5496 Dec 12 21:40	3°♎20'24			5499 Jul 03 12:56	0°♊	
	5497 Jan 03 07:35	0°♊			5499 Jul 30 06:20	0°♎	
	5497 Jan 27 09:20	0°♎			5499 Aug 25 01:34	0°♎	
	5497 Feb 20 12:03	0°♎			5499 Sep 19 07:25	0°♎	
	5497 Mar 16 19:06	0°♎		asc. node	5499 Sep 20 18:06	1°♎43'59	
asc. node	5497 Apr 04 22:54	23°♎19'26			5499 Oct 14 02:55	0°♎	
	5497 Apr 10 12:05	0°♊			5499 Nov 07 14:10	0°♎	
	5497 May 06 00:15	0°♎			5499 Dec 01 19:29	0°♎	
	5497 Jun 02 04:11	0°♎		morning set	5499 Dec 04 11:27	3°♎18'55	
evening max el	5497 Jun 13 05:02	11°♎12'53	45°55'22		5499 Dec 25 20:58	0°♎	
	5497 Jul 04 14:57	0°♎		max. Earth dist.	5500 Jan 10 00:31	18°♎57'22	1.71547 AU
greatest brilliancy	5497 Jul 21 08:44	9°♎45'07	-4.7m	desc. node	5500 Jan 10 09:26	19°♎25'18	
desc. node	5497 Jul 25 14:25	11°♎05'07					
retrograde	5497 Aug 01 09:23	11°♎56'40		superior conj	5500 Jan 12 14:15	22°♎10'43	-0°05'21
evening set	5497 Aug 17 08:56	7°♎02'05		minimum elong	5500 Jan 12 12:53	22°♎06'29	0°05'15
inferior conj	5497 Aug 22 21:45	3°♎39'46	-6°04'46	behind sun begin	5500 Jan 11 12:38	20°♎50'29	
minimum elong	5497 Aug 22 11:54	3°♎55'15	6°02'43	behind sun end	5500 Jan 13 13:09	23°♎22'29	
min. Earth dist.	5497 Aug 22 11:33	3°♎55'48	0.29036 AU		5500 Jan 18 19:59	0°♊	
morning rise	5497 Aug 27 15:06	0°♎46'04			5500 Feb 11 17:30	0°♎	
	5497 Aug 28 23:30	30°♎		evening rise	5500 Feb 22 03:06	13°♎03'55	
direct	5497 Sep 13 11:58	25°♎24'22			5500 Mar 07 14:42	0°♎	
greatest brilliancy	5497 Sep 23 13:39	27°♎14'16	-4.7m		5500 Mar 31 13:30	0°♎	
	5497 Sep 29 21:30	0°♎			5500 Apr 24 16:35	0°♊	
morning max el	5497 Nov 01 10:54	25°♎33'48	45°52'29	asc. node	5500 May 03 10:51	10°♊48'30	
	5497 Nov 05 23:06	0°♎			5500 May 19 03:00	0°♎	
asc. node	5497 Nov 15 15:53	9°♎58'28			5500 Jun 13 00:36	0°♎	
	5497 Dec 03 22:52	0°♎			5500 Jul 08 15:59	0°♎	
	5497 Dec 29 18:37	0°♎			5500 Aug 04 16:57	0°♎	
	5498 Jan 23 15:18	0°♎		desc. node	5500 Aug 23 02:13	18°♎42'38	
	5498 Feb 17 00:24	0°♊		evening max el	5500 Aug 23 19:44	19°♎24'39	45°34'04
desc. node	5498 Mar 07 07:05	22°♊42'34			5500 Sep 04 11:28	0°♎	
	5498 Mar 13 03:29	0°♎		greatest brilliancy	5500 Oct 01 23:35	17°♎29'14	-4.7m
	5498 Apr 06 03:49	0°♎		retrograde	5500 Oct 11 12:18	19°♎08'18	
	5498 Apr 30 03:47	0°♎		evening set	5500 Oct 29 06:30	13°♎14'40	

inferior conj	5500 Nov 01 19:38	11° \mathbb{M} 04'23	-8°04'41	max. Earth dist.	5503 Apr 02 03:59	12° \mathbb{Y} 35'41	1.71290 AU
minimum elong	5500 Nov 02 02:36	10° \mathbb{M} 53'32	8°03'55		5503 Apr 16 00:44	0° \mathcal{B}	
min. Earth dist.	5500 Nov 02 15:14	10° \mathbb{M} 33'54	0.28572 AU	evening rise	5503 May 10 09:16	0° \mathbb{I} 27'12	
morning rise	5500 Nov 05 22:23	8° \mathbb{M} 33'03			5503 May 10 00:32	0° \mathbb{I}	
direct	5500 Nov 23 04:36	2° \mathbb{M} 50'22		asc. node	5503 May 31 22:39	27° \mathbb{I} 13'21	
greatest brilliancy	5500 Dec 04 09:39	5° \mathbb{M} 08'53	-4.8m		5503 Jun 03 04:32	0° \mathcal{C}	
asc. node	5500 Dec 14 03:35	10° \mathbb{M} 13'29			5503 Jun 27 13:51	0° \mathcal{Q}	
	5501 Jan 07 03:14	0° \mathcal{A}			5503 Jul 22 05:43	0° \mathbb{M}	
morning max el	5501 Jan 12 10:28	5° \mathcal{A} 13'27	46°36'23		5503 Aug 16 06:40	0° \mathcal{L}	
	5501 Feb 04 13:27	0° \mathcal{B}			5503 Sep 10 21:50	0° \mathbb{M}	
	5501 Mar 02 11:26	0° \approx		desc. node	5503 Sep 20 14:03	11° \mathbb{M} 03'40	
	5501 Mar 27 10:49	0° \mathcal{H}			5503 Oct 07 13:33	0° \mathcal{A}	
desc. node	5501 Apr 04 19:11	10° \mathcal{H} 09'45		evening max el	5503 Nov 05 03:13	29° \mathcal{A} 40'52	46°11'37
	5501 Apr 21 00:01	0° \mathbb{Y}			5503 Nov 05 11:09	0° \mathcal{B}	
	5501 May 15 08:56	0° \mathcal{B}		greatest brilliancy	5503 Dec 14 21:44	28° \mathcal{B} 47'41	-4.8m
	5501 Jun 08 16:53	0° \mathbb{I}			5503 Dec 19 09:20	0° \approx	
	5501 Jul 03 01:27	0° \mathcal{C}		retrograde	5503 Dec 24 13:11	0° \approx 30'31	
morning set	5501 Jul 17 13:09	17° \mathcal{C} 49'18			5503 Dec 29 13:50	30° \mathcal{R} \mathcal{B}	
asc. node	5501 Jul 26 20:15	29° \mathcal{C} 15'25		evening set	5504 Jan 07 21:44	26° \mathcal{B} 27'42	
	5501 Jul 27 10:45	0° \mathcal{Q}		asc. node	5504 Jan 11 15:23	24° \mathcal{B} 20'13	
	5501 Aug 20 20:03	0° \mathbb{M}		inferior conj	5504 Jan 14 04:15	22° \mathcal{B} 47'49	0°39'17
max. Earth dist.	5501 Aug 23 04:04	2° \mathbb{M} 52'23	1.73443 AU	minimum elong	5504 Jan 14 02:44	22° \mathcal{B} 50'08	0°38'49
				min. Earth dist.	5504 Jan 14 10:31	22° \mathcal{B} 38'14	0.26858 AU
superior conj	5501 Aug 23 14:03	3° \mathbb{M} 23'08	1°00'05	morning rise	5504 Jan 20 07:24	19° \mathcal{B} 12'11	
minimum elong	5501 Aug 23 04:56	2° \mathbb{M} 55'03	0°59'44	direct	5504 Feb 03 21:03	15° \mathcal{B} 00'55	
	5501 Sep 14 04:50	0° \mathcal{L}		greatest brilliancy	5504 Feb 14 06:04	17° \mathcal{B} 03'28	-4.9m
evening rise	5501 Sep 28 16:06	17° \mathcal{L} 49'25			5504 Mar 05 21:28	0° \approx	
	5501 Oct 08 13:27	0° \mathbb{M}		morning max el	5504 Mar 25 11:13	18° \approx 07'24	46°58'43
	5501 Nov 01 22:41	0° \mathcal{A}			5504 Apr 05 20:37	0° \mathcal{H}	
desc. node	5501 Nov 15 11:50	16° \mathcal{A} 38'21		desc. node	5504 May 02 07:04	29° \mathcal{H} 33'01	
	5501 Nov 26 09:10	0° \mathcal{B}			5504 May 02 16:25	0° \mathbb{Y}	
	5501 Dec 20 21:17	0° \approx			5504 May 28 06:36	0° \mathcal{B}	
	5502 Jan 14 12:21	0° \mathcal{H}			5504 Jun 22 08:53	0° \mathbb{I}	
	5502 Feb 08 10:53	0° \mathbb{Y}			5504 Jul 17 05:58	0° \mathcal{C}	
	5502 Mar 06 04:30	0° \mathcal{B}			5504 Aug 10 23:48	0° \mathcal{Q}	
asc. node	5502 Mar 08 13:03	2° \mathcal{B} 39'50		asc. node	5504 Aug 23 08:13	15° \mathcal{Q} 02'26	
evening max el	5502 Apr 01 16:47	28° \mathcal{B} 38'37	46°51'58		5504 Sep 04 14:12	0° \mathbb{M}	
	5502 Apr 03 01:14	0° \mathbb{I}		morning set	5504 Sep 23 21:19	23° \mathbb{M} 40'14	
greatest brilliancy	5502 May 11 11:27	29° \mathbb{I} 14'50	-4.8m		5504 Sep 29 00:46	0° \mathcal{L}	
	5502 May 13 15:38	0° \mathcal{C}			5504 Oct 23 07:56	0° \mathbb{M}	
retrograde	5502 May 22 02:55	1° \mathcal{C} 22'09		max. Earth dist.	5504 Oct 27 21:39	5° \mathbb{M} 39'32	1.72839 AU
	5502 May 30 06:51	30° \mathcal{R} \mathbb{I}					
evening set	5502 Jun 06 18:01	26° \mathbb{I} 33'36		superior conj	5504 Oct 30 10:19	8° \mathbb{M} 47'23	1°20'31
inferior conj	5502 Jun 12 05:56	23° \mathbb{I} 14'25	3°48'34	minimum elong	5504 Oct 30 16:25	9° \mathbb{M} 06'16	1°20'26
minimum elong	5502 Jun 12 13:50	23° \mathbb{I} 02'08	3°46'19		5504 Nov 16 12:45	0° \mathcal{A}	
min. Earth dist.	5502 Jun 12 02:04	23° \mathbb{I} 20'25	0.28026 AU	evening rise	5504 Dec 07 08:03	25° \mathcal{A} 50'49	
morning rise	5502 Jun 18 10:06	19° \mathbb{I} 33'41			5504 Dec 10 16:12	0° \mathcal{B}	
desc. node	5502 Jun 28 04:30	15° \mathbb{I} 45'10		desc. node	5504 Dec 12 23:37	2° \mathcal{B} 52'22	
direct	5502 Jul 03 07:44	15° \mathbb{I} 13'20			5505 Jan 03 18:41	0° \approx	
greatest brilliancy	5502 Jul 13 04:55	17° \mathbb{I} 00'36	-4.8m		5505 Jan 27 20:39	0° \mathcal{H}	
	5502 Aug 03 22:20	0° \mathcal{C}			5505 Feb 20 23:42	0° \mathbb{Y}	
morning max el	5502 Aug 21 05:40	15° \mathcal{C} 14'59	45°45'42		5505 Mar 17 07:16	0° \mathcal{B}	
	5502 Sep 04 23:47	0° \mathcal{Q}		asc. node	5505 Apr 05 00:56	22° \mathcal{B} 47'05	
	5502 Oct 02 14:03	0° \mathbb{M}			5505 Apr 11 01:06	0° \mathbb{I}	
asc. node	5502 Oct 19 06:04	19° \mathbb{M} 05'45			5505 May 06 14:55	0° \mathcal{C}	
	5502 Oct 28 13:41	0° \mathcal{L}			5505 Jun 02 22:59	0° \mathcal{Q}	
	5502 Nov 22 15:45	0° \mathbb{M}		evening max el	5505 Jun 11 20:03	8° \mathcal{Q} 58'20	45°56'58
	5502 Dec 17 04:30	0° \mathcal{A}			5505 Jul 06 07:25	0° \mathbb{M}	
	5503 Jan 10 09:16	0° \mathcal{B}		greatest brilliancy	5505 Jul 20 01:16	7° \mathbb{M} 35'48	-4.7m
	5503 Feb 03 09:27	0° \approx		desc. node	5505 Jul 25 16:26	9° \mathbb{M} 14'35	
desc. node	5503 Feb 07 21:15	5° \approx 37'54		retrograde	5505 Jul 31 01:12	9° \mathbb{M} 47'12	
morning set	5503 Feb 17 15:53	17° \approx 53'58		evening set	5505 Aug 15 22:45	4° \mathbb{M} 56'22	
	5503 Feb 27 07:01	0° \mathcal{H}		min. Earth dist.	5505 Aug 21 03:46	1° \mathbb{M} 46'46	0.29012 AU
	5503 Mar 23 03:32	0° \mathbb{Y}		inferior conj	5505 Aug 21 14:04	1° \mathbb{M} 30'34	-5°50'33
				minimum elong	5505 Aug 21 04:16	1° \mathbb{M} 45'58	5°48'26
superior conj	5503 Mar 30 22:05	9° \mathbb{Y} 46'19	-1°26'13		5505 Aug 24 00:02	30° \mathcal{R} \mathcal{Q}	
minimum elong	5503 Mar 30 18:26	9° \mathbb{Y} 34'51	1°26'12	morning rise	5505 Aug 26 09:59	28° \mathcal{Q} 32'55	

direct	5505 Sep 12 03:42	23°♎15'34			5508 Mar 07 01:36	0°♑	
greatest brilliancy	5505 Sep 22 05:32	25°♎05'07	-4.7m		5508 Mar 31 00:29	0°♑	
	5505 Oct 02 09:48	0°♐			5508 Apr 24 03:44	0°♐	
morning max el	5505 Oct 31 00:56	23°♐18'22	45°51'25	asc. node	5508 May 02 12:47	10°♐19'46	
	5505 Nov 06 19:09	0°♑			5508 May 18 14:31	0°♑	
asc. node	5505 Nov 15 17:50	9°♑16'49			5508 Jun 12 12:50	0°♎	
	5505 Dec 04 13:49	0°♌			5508 Jul 08 05:40	0°♐	
	5505 Dec 30 07:41	0°♑			5508 Aug 04 10:00	0°♑	
	5506 Jan 24 03:27	0°♑		evening max el	5508 Aug 21 11:08	17°♑13'44	45°33'50
	5506 Feb 17 12:00	0°♑		desc. node	5508 Aug 22 04:20	17°♑54'45	
desc. node	5506 Mar 07 09:15	22°♑14'00			5508 Sep 04 17:22	0°♌	
	5506 Mar 13 14:45	0°♐		greatest brilliancy	5508 Sep 29 12:42	15°♌15'55	-4.7m
	5506 Apr 06 14:52	0°♑		retrograde	5508 Oct 09 03:54	16°♌56'42	
	5506 Apr 30 14:41	0°♑		evening set	5508 Oct 26 23:42	10°♌59'27	
morning set	5506 May 05 01:41	5°♑34'13		inferior conj	5508 Oct 30 11:02	8°♌51'41	-8°11'27
	5506 May 24 15:59	0°♐		minimum elong	5508 Oct 30 17:25	8°♌41'47	8°10'48
				min. Earth dist.	5508 Oct 31 05:26	8°♌23'06	0.28629 AU
superior conj	5506 Jun 13 00:13	24°♐01'44	-0°36'06	morning rise	5508 Nov 03 10:52	6°♌24'49	
minimum elong	5506 Jun 13 07:57	24°♐25'42	0°35'45	direct	5508 Nov 20 20:57	0°♌37'06	
max. Earth dist.	5506 Jun 16 07:59	28°♐08'49	1.72628 AU	greatest brilliancy	5508 Dec 02 00:43	2°♌54'47	-4.8m
	5506 Jun 17 19:53	0°♑		asc. node	5508 Dec 13 05:34	8°♌55'13	
asc. node	5506 Jun 28 10:27	13°♑07'27			5509 Jan 07 02:33	0°♑	
	5506 Jul 12 02:35	0°♎		morning max el	5509 Jan 10 02:33	2°♑58'51	46°34'46
evening rise	5506 Jul 20 20:40	10°♎46'53			5509 Feb 04 05:36	0°♑	
	5506 Aug 05 11:55	0°♐			5509 Mar 02 01:10	0°♑	
	5506 Aug 30 00:14	0°♑			5509 Mar 26 23:20	0°♐	
	5506 Sep 23 16:39	0°♌		desc. node	5509 Apr 03 21:06	9°♐38'16	
desc. node	5506 Oct 18 01:56	29°♌21'10			5509 Apr 20 11:49	0°♑	
	5506 Oct 18 14:55	0°♑			5509 May 14 20:13	0°♑	
	5506 Nov 12 21:15	0°♑			5509 Jun 08 03:47	0°♐	
	5506 Dec 08 16:16	0°♑			5509 Jul 02 12:06	0°♑	
	5507 Jan 04 14:28	0°♐		morning set	5509 Jul 15 06:13	15°♑41'46	
evening max el	5507 Jan 16 21:32	12°♐48'58	47°02'37	asc. node	5509 Jul 25 22:21	28°♑49'37	
	5507 Feb 04 07:41	0°♑			5509 Jul 26 21:14	0°♎	
asc. node	5507 Feb 08 03:21	3°♑05'26			5509 Aug 20 06:28	0°♐	
greatest brilliancy	5507 Feb 26 15:08	14°♑09'28	-4.9m				
retrograde	5507 Mar 08 13:51	16°♑03'03		superior conj	5509 Aug 21 08:06	1°♐18'51	0°57'45
evening set	5507 Mar 26 08:11	9°♑59'35		minimum elong	5509 Aug 20 23:00	0°♐50'52	0°57'25
inferior conj	5507 Mar 29 07:17	8°♑10'43	8°58'29	max. Earth dist.	5509 Aug 21 02:35	1°♐01'52	1.73443 AU
minimum elong	5507 Mar 29 03:32	8°♑16'31	8°58'16		5509 Sep 13 15:18	0°♑	
min. Earth dist.	5507 Mar 28 20:23	8°♑27'34	0.27115 AU	evening rise	5509 Sep 26 10:06	15°♑44'41	
morning rise	5507 Mar 31 22:58	6°♑33'05			5509 Oct 08 00:02	0°♌	
direct	5507 Apr 18 20:34	0°♑24'37			5509 Nov 01 09:31	0°♑	
greatest brilliancy	5507 Apr 28 04:35	2°♑02'46	-4.9m	desc. node	5509 Nov 14 13:43	16°♑10'16	
desc. node	5507 May 30 18:44	24°♑35'24			5509 Nov 25 20:24	0°♑	
	5507 Jun 05 11:52	0°♑			5509 Dec 20 09:03	0°♑	
morning max el	5507 Jun 07 17:16	2°♑10'25	46°25'48		5510 Jan 14 00:52	0°♐	
	5507 Jul 04 05:20	0°♐			5510 Feb 08 00:36	0°♑	
	5507 Jul 30 19:57	0°♑			5510 Mar 05 20:35	0°♑	
	5507 Aug 25 13:47	0°♎		asc. node	5510 Mar 07 15:05	1°♑59'33	
	5507 Sep 19 18:52	0°♐		evening max el	5510 Mar 30 08:32	26°♑22'21	46°53'34
asc. node	5507 Sep 20 20:09	1°♐15'54			5510 Apr 02 23:59	0°♐	
	5507 Oct 14 13:56	0°♑		greatest brilliancy	5510 May 09 03:16	26°♐59'18	-4.8m
	5507 Nov 08 00:57	0°♌		retrograde	5510 May 19 18:47	29°♐06'13	
	5507 Dec 02 06:11	0°♑		evening set	5510 Jun 04 11:36	24°♐14'35	
morning set	5507 Dec 03 02:27	1°♑03'01		inferior conj	5510 Jun 09 20:51	20°♐58'54	4°08'16
	5507 Dec 26 07:40	0°♑		minimum elong	5510 Jun 10 05:17	20°♐45'47	4°05'55
max. Earth dist.	5508 Jan 08 13:43	16°♑34'44	1.71586 AU	min. Earth dist.	5510 Jun 09 16:55	21°♐05'02	0.27990 AU
desc. node	5508 Jan 10 11:27	18°♑57'56		morning rise	5510 Jun 15 23:29	17°♐20'28	
				desc. node	5510 Jun 27 06:29	13°♐14'54	
superior conj	5508 Jan 11 02:12	19°♑44'09	-0°01'30	direct	5510 Jun 30 22:49	12°♐58'38	
minimum elong	5508 Jan 11 01:49	19°♑42'55	0°01'28	greatest brilliancy	5510 Jul 10 18:23	14°♐44'55	-4.8m
behind sun begin	5508 Jan 10 00:34	18°♑23'51			5510 Aug 04 07:11	0°♑	
behind sun end	5508 Jan 12 03:03	21°♑02'00		morning max el	5510 Aug 18 21:11	13°♑04'04	45°46'21
	5508 Jan 19 06:45	0°♑			5510 Sep 04 17:27	0°♎	
	5508 Feb 12 04:20	0°♐			5510 Oct 02 03:58	0°♐	
evening rise	5508 Feb 20 14:04	10°♐33'34		asc. node	5510 Oct 18 07:59	18°♐34'13	

	5510 Oct 28 02:01	0°♄			5513 May 06 05:42	0°♄
	5510 Nov 22 03:18	0°♌			5513 Jun 02 18:16	0°♌
	5510 Dec 16 15:39	0°♊	evening max el		5513 Jun 09 10:28	6°♌42'25 45°58'41
	5511 Jan 09 20:14	0°♈			5513 Jul 07 05:38	0°♍
	5511 Feb 02 20:19	0°♊	greatest brilliancy		5513 Jul 17 17:41	5°♍26'22 -4.7m
desc. node	5511 Feb 06 23:21	5°♊10'26	desc. node		5513 Jul 24 18:34	7°♍20'14
morning set	5511 Feb 15 02:09	15°♊21'36	retrograde		5513 Jul 28 17:21	7°♍38'11
	5511 Feb 26 17:50	0°♋	evening set		5513 Aug 13 12:42	2°♍50'35
	5511 Mar 22 14:19	0°♎			5513 Aug 18 06:02	30°♋♌
			inferior conj		5513 Aug 19 06:26	29°♌21'41 -5°35'45
superior conj	5511 Mar 28 08:43	7°♎15'00 -1°25'32	minimum elong		5513 Aug 18 20:44	29°♌36'56 5°33'36
minimum elong	5511 Mar 28 04:00	7°♎00'13 1°25'30	min. Earth dist.		5513 Aug 18 20:05	29°♌37'58 0.28985 AU
max. Earth dist.	5511 Mar 30 12:24	9°♎57'25 1.71264 AU	morning rise		5513 Aug 24 04:55	26°♌20'19
	5511 Apr 15 11:30	0°♏	direct		5513 Sep 09 19:11	21°♌06'59
evening rise	5511 May 07 21:12	28°♏01'12	greatest brilliancy		5513 Sep 19 21:44	22°♌56'47 -4.7m
	5511 May 09 11:19	0°♐			5513 Oct 03 11:04	0°♍
asc. node	5511 May 31 00:39	26°♐46'02	morning max el		5513 Oct 28 15:35	21°♍04'56 45°50'32
	5511 Jun 02 15:23	0°♄			5513 Nov 06 14:25	0°♄
	5511 Jun 27 00:50	0°♌	asc. node		5513 Nov 14 19:51	8°♄36'17
	5511 Jul 21 17:01	0°♍			5513 Dec 04 04:27	0°♌
	5511 Aug 15 18:39	0°♄			5513 Dec 29 20:36	0°♊
	5511 Sep 10 11:08	0°♌			5514 Jan 23 15:33	0°♈
desc. node	5511 Sep 19 16:00	10°♌29'24			5514 Feb 16 23:39	0°♊
	5511 Oct 07 05:38	0°♊	desc. node		5514 Mar 06 11:12	21°♊44'24
evening max el	5511 Nov 02 16:53	27°♊21'57 46°09'28			5514 Mar 13 02:08	0°♋
	5511 Nov 05 10:59	0°♈			5514 Apr 06 02:03	0°♎
greatest brilliancy	5511 Dec 12 11:41	26°♈25'21 -4.8m			5514 Apr 30 01:41	0°♏
retrograde	5511 Dec 22 01:12	28°♈06'26	morning set		5514 May 02 14:05	3°♏08'41
evening set	5512 Jan 05 11:14	24°♈02'58			5514 May 24 02:52	0°♐
asc. node	5512 Jan 10 17:31	21°♈00'02				
inferior conj	5512 Jan 11 17:11	20°♈23'49 0°15'16	superior conj		5514 Jun 10 14:48	21°♐44'38 -0°39'18
minimum elong	5512 Jan 11 16:35	20°♈24'43 0°15'07	minimum elong		5514 Jun 10 23:06	22°♐10'24 0°38'57
transit middle	5512 Jan 11 16:35	20°♈24'43 0°15'07	max. Earth dist.		5514 Jun 13 22:33	25°♐51'49 1.72579 AU
transit begin	5512 Jan 11 14:52	20°♈27'21			5514 Jun 17 06:41	0°♄
transit end	5512 Jan 11 18:18	20°♈22'05	asc. node		5514 Jun 27 12:32	12°♄40'31
min. Earth dist.	5512 Jan 12 01:03	20°♈11'45 0.26891 AU			5514 Jul 11 13:22	0°♌
morning rise	5512 Jan 17 21:29	16°♈46'05	evening rise		5514 Jul 18 13:40	8°♌38'14
direct	5512 Feb 01 10:05	12°♈36'12			5514 Aug 04 22:48	0°♍
greatest brilliancy	5512 Feb 11 21:09	14°♈40'05 -4.9m			5514 Aug 29 11:19	0°♄
	5512 Mar 06 07:58	0°♊			5514 Sep 23 04:08	0°♌
morning max el	5512 Mar 22 23:30	15°♊40'06 46°58'52	desc. node		5514 Oct 17 03:53	28°♌50'53
	5512 Apr 05 15:28	0°♋			5514 Oct 18 03:02	0°♊
desc. node	5512 May 01 09:02	28°♋55'33			5514 Nov 12 10:27	0°♈
	5512 May 02 07:19	0°♎			5514 Dec 08 07:24	0°♊
	5512 May 27 19:43	0°♏			5515 Jan 04 09:54	0°♋
	5512 Jun 21 21:00	0°♐	evening max el		5515 Jan 14 10:37	10°♋23'16 47°01'29
	5512 Jul 16 17:25	0°♄			5515 Feb 04 20:41	0°♎
	5512 Aug 10 10:48	0°♌	asc. node		5515 Feb 07 05:20	1°♎49'48
asc. node	5512 Aug 22 10:15	14°♌35'36	greatest brilliancy		5515 Feb 24 03:57	11°♎41'57 -4.9m
	5512 Sep 04 00:54	0°♍	retrograde		5515 Mar 06 03:08	13°♎36'13
morning set	5512 Sep 21 14:59	21°♍34'29	evening set		5515 Mar 23 17:47	7°♎37'34
	5512 Sep 28 11:19	0°♄	inferior conj		5515 Mar 26 20:06	5°♎44'09 8°53'59
	5512 Oct 22 18:28	0°♌	minimum elong		5515 Mar 26 15:27	5°♎51'20 8°53'40
max. Earth dist.	5512 Oct 25 14:43	3°♌31'10 1.72881 AU	min. Earth dist.		5515 Mar 26 08:44	6°♎01'40 0.27088 AU
			morning rise		5515 Mar 29 13:11	4°♎04'40
superior conj	5512 Oct 28 03:29	6°♌39'16 1°21'34			5515 Apr 06 10:14	30°♋♋
minimum elong	5512 Oct 28 08:58	6°♌56'14 1°21'30	direct		5515 Apr 16 09:03	27°♋58'13
	5512 Nov 15 23:24	0°♊	greatest brilliancy		5515 Apr 25 17:08	29°♋36'47 -4.9m
evening rise	5512 Dec 04 22:38	23°♊33'28			5515 Apr 26 19:19	0°♎
	5512 Dec 10 03:01	0°♈	desc. node		5515 May 29 20:47	23°♎37'46
desc. node	5512 Dec 12 01:41	2°♈25'05			5515 Jun 05 11:35	0°♏
	5513 Jan 03 05:43	0°♊	morning max el		5515 Jun 05 07:20	29°♎49'32 46°27'32
	5513 Jan 27 07:58	0°♋			5515 Jul 03 21:48	0°♐
	5513 Feb 20 11:22	0°♎			5515 Jul 30 09:45	0°♄
	5513 Mar 16 19:26	0°♏			5515 Aug 25 02:14	0°♌
asc. node	5513 Apr 04 02:52	22°♏14'28			5515 Sep 19 06:33	0°♍
	5513 Apr 10 14:09	0°♐	asc. node		5515 Sep 19 22:01	0°♍46'28

	5515 Oct 14 01:10	0°♎		evening max el	5518 Mar 27 23:46	24°♎03'47	46°54'53
	5515 Nov 07 11:57	0°♍			5518 Apr 03 00:10	0°♐	
morning set	5515 Nov 30 18:00	28°♍48'16		greatest brilliancy	5518 May 06 19:26	24°♐42'41	-4.8m
	5515 Dec 01 17:05	0°♌		retrograde	5518 May 17 09:59	26°♐48'19	
	5515 Dec 25 18:33	0°♋		evening set	5518 Jun 02 05:10	21°♐53'38	
max. Earth dist.	5516 Jan 06 04:05	14°♋15'13	1.71625 AU	inferior conj	5518 Jun 07 11:38	18°♐41'35	4°27'37
				minimum elong	5518 Jun 07 20:32	18°♐27'42	4°25'12
superior conj	5516 Jan 08 14:40	17°♋18'38	0°02'20	min. Earth dist.	5518 Jun 07 07:52	18°♐47'28	0.27959 AU
minimum elong	5516 Jan 08 15:14	17°♋20'24	0°02'19	morning rise	5518 Jun 13 12:28	15°♐05'28	
behind sun begin	5516 Jan 07 14:10	16°♋01'54		desc. node	5518 Jun 26 08:36	10°♐47'51	
behind sun end	5516 Jan 09 16:18	18°♋38'55		direct	5518 Jun 28 13:35	10°♐42'02	
desc. node	5516 Jan 09 13:32	18°♋30'15		greatest brilliancy	5518 Jul 08 08:01	12°♐27'22	-4.8m
	5516 Jan 18 17:42	0°♐			5518 Aug 04 14:19	0°♑	
	5516 Feb 11 15:24	0°♏		morning max el	5518 Aug 16 11:45	10°♑49'04	45°47'00
evening rise	5516 Feb 18 01:19	8°♏03'21			5518 Sep 04 11:18	0°♒	
	5516 Mar 06 12:47	0°♎			5518 Oct 01 18:14	0°♓	
	5516 Mar 30 11:50	0°♏		asc. node	5518 Oct 17 10:03	18°♓01'53	
asc. node	5516 Apr 23 15:18	0°♐			5518 Oct 27 14:43	0°♑	
	5516 May 01 14:47	9°♐50'00			5518 Nov 21 15:13	0°♒	
	5516 May 18 02:30	0°♑			5518 Dec 16 03:11	0°♌	
	5516 Jun 12 01:35	0°♒			5519 Jan 09 07:34	0°♋	
	5516 Jul 07 19:56	0°♓			5519 Feb 02 07:32	0°♐	
	5516 Aug 04 03:55	0°♑		desc. node	5519 Feb 06 01:17	4°♐41'25	
evening max el	5516 Aug 19 03:04	15°♑02'50	45°33'41	morning set	5519 Feb 12 12:45	12°♐49'10	
desc. node	5516 Aug 21 06:14	17°♑04'17			5519 Feb 26 04:57	0°♏	
	5516 Sep 05 02:19	0°♍			5519 Mar 22 01:22	0°♎	
greatest brilliancy	5516 Sep 27 02:08	13°♍01'54	-4.7m				
retrograde	5516 Oct 06 19:19	14°♍43'49		superior conj	5519 Mar 25 19:45	4°♎44'08	-1°24'40
evening set	5516 Oct 24 16:43	8°♍43'34		minimum elong	5519 Mar 25 14:04	4°♎26'14	1°24'37
inferior conj	5516 Oct 28 02:26	6°♍37'59	-8°17'28	max. Earth dist.	5519 Mar 27 18:58	7°♎12'32	1.71235 AU
minimum elong	5516 Oct 28 08:09	6°♍29'04	8°16'58		5519 Apr 14 22:31	0°♏	
min. Earth dist.	5516 Oct 28 19:31	6°♍11'22	0.28678 AU	evening rise	5519 May 05 09:19	25°♏34'49	
morning rise	5516 Oct 31 23:23	4°♍15'16			5519 May 08 22:22	0°♐	
	5516 Nov 09 14:40	30°♏♑		asc. node	5519 May 30 02:44	26°♐18'05	
direct	5516 Nov 18 13:20	28°♑23'03			5519 Jun 02 02:32	0°♑	
	5516 Nov 27 20:07	0°♍			5519 Jun 26 12:11	0°♒	
greatest brilliancy	5516 Nov 29 15:06	0°♍38'56	-4.8m		5519 Jul 21 04:46	0°♓	
asc. node	5516 Dec 12 07:37	7°♍38'33			5519 Aug 15 07:09	0°♑	
	5517 Jan 07 01:13	0°♌			5519 Sep 10 01:03	0°♍	
morning max el	5517 Jan 07 18:17	0°♌42'44	46°33'17	desc. node	5519 Sep 18 17:59	9°♍53'40	
	5517 Feb 03 21:44	0°♋			5519 Oct 06 22:31	0°♌	
	5517 Mar 01 15:00	0°♐		evening max el	5519 Oct 31 05:37	24°♌59'42	46°07'28
	5517 Mar 26 12:05	0°♏			5519 Nov 05 12:36	0°♋	
desc. node	5517 Apr 02 23:04	9°♏06'08		greatest brilliancy	5519 Dec 10 01:42	24°♋01'58	-4.8m
	5517 Apr 19 23:54	0°♎		retrograde	5519 Dec 19 13:06	25°♋41'33	
	5517 May 14 07:52	0°♏		evening set	5520 Jan 03 00:51	21°♋36'42	
	5517 Jun 07 15:07	0°♐		inferior conj	5520 Jan 09 06:05	17°♋58'47	-0°08'39
	5517 Jul 01 23:12	0°♑		minimum elong	5520 Jan 09 06:25	17°♋58'17	0°08'32
morning set	5517 Jul 12 22:45	13°♑31'06		transit middle	5520 Jan 09 06:25	17°♋58'17	0°08'32
asc. node	5517 Jul 25 00:21	28°♑22'04		transit begin	5520 Jan 09 02:55	18°♋03'38	
	5517 Jul 26 08:11	0°♒		transit end	5520 Jan 09 09:54	17°♋52'55	
				min. Earth dist.	5520 Jan 09 15:44	17°♋44'00	0.26927 AU
superior conj	5517 Aug 19 01:37	29°♒11'38	0°55'19	asc. node	5520 Jan 09 19:30	17°♋38'13	
minimum elong	5517 Aug 18 16:37	28°♒43'56	0°54'59	morning rise	5520 Jan 15 11:20	14°♋19'23	
max. Earth dist.	5517 Aug 19 00:34	29°♒08'25	1.73436 AU	direct	5520 Jan 29 22:49	10°♋10'10	
	5517 Aug 19 17:20	0°♓		greatest brilliancy	5520 Feb 09 12:37	12°♋16'10	-4.9m
	5517 Sep 13 02:11	0°♑			5520 Mar 06 16:05	0°♐	
evening rise	5517 Sep 24 03:47	13°♑37'39		morning max el	5520 Mar 20 12:12	13°♐12'52	46°59'14
	5517 Oct 07 11:03	0°♍			5520 Apr 05 10:07	0°♏	
	5517 Oct 31 20:49	0°♌		desc. node	5520 Apr 30 11:07	28°♏18'04	
desc. node	5517 Nov 13 15:49	15°♌41'29			5520 May 01 22:15	0°♎	
	5517 Nov 25 08:04	0°♋			5520 May 27 08:56	0°♏	
	5517 Dec 19 21:14	0°♐			5520 Jun 21 09:15	0°♐	
	5518 Jan 13 13:46	0°♏			5520 Jul 16 05:04	0°♑	
	5518 Feb 07 14:43	0°♎			5520 Aug 09 22:02	0°♒	
	5518 Mar 05 13:14	0°♏		asc. node	5520 Aug 21 12:10	14°♒07'33	
asc. node	5518 Mar 06 16:59	1°♏17'40			5520 Sep 03 11:53	0°♓	

morning set	5520 Sep 19 08:20	19° \cap 26'48		evening set	5523 Mar 21 03:01	5° Υ 15'48	
	5520 Sep 27 22:11	0° $\underline{\cap}$		inferior conj	5523 Mar 24 08:50	3° Υ 17'19	8°48'37
	5520 Oct 22 05:20	0° \cap		minimum elong	5523 Mar 24 03:18	3° Υ 25'51	8°48'10
max. Earth dist.	5520 Oct 23 08:53	1° \cap 25'12	1.72921 AU	min. Earth dist.	5523 Mar 23 20:46	3° Υ 35'53	0.27058 AU
				morning rise	5523 Mar 27 03:41	1° Υ 35'24	
superior conj	5520 Oct 25 20:23	4° \cap 29'20	1°22'29		5523 Mar 29 21:48	30° \Re \mathcal{H}	
minimum elong	5520 Oct 26 01:13	4° \cap 44'20	1°22'27	direct	5523 Apr 13 21:55	25° \mathcal{H} 31'48	
	5520 Nov 15 10:21	0° \mathcal{H}		greatest brilliancy	5523 Apr 23 05:08	27° \mathcal{H} 10'07	-4.9m
evening rise	5520 Dec 02 13:05	21° \mathcal{H} 14'54			5523 Apr 29 18:00	0° Υ	
	5520 Dec 09 14:07	0° \mathcal{Z}		desc. node	5523 May 28 22:50	22° Υ 41'34	
desc. node	5520 Dec 11 03:43	1° \mathcal{Z} 56'48		morning max el	5523 Jun 02 21:55	27° Υ 30'07	46°29'17
	5521 Jan 02 17:02	0° \approx			5523 Jun 05 10:12	0° \mathcal{B}	
	5521 Jan 26 19:32	0° \mathcal{H}			5523 Jul 03 13:51	0° \cap	
	5521 Feb 19 23:17	0° Υ			5523 Jul 29 23:15	0° \mathcal{G}	
	5521 Mar 16 07:52	0° \mathcal{B}			5523 Aug 24 14:25	0° Ω	
asc. node	5521 Apr 03 04:56	21° \mathcal{B} 41'39			5523 Sep 18 18:01	0° \cap	
	5521 Apr 10 03:26	0° \cap		asc. node	5523 Sep 19 00:08	0° \cap 18'24	
	5521 May 05 20:47	0° \mathcal{G}			5523 Oct 13 12:15	0° $\underline{\cap}$	
	5521 Jun 02 14:11	0° Ω			5523 Nov 06 22:50	0° \cap	
evening max el	5521 Jun 07 01:09	4° Ω 27'01	46°00'31	morning set	5523 Nov 28 09:28	26° \cap 33'34	
	5521 Jul 08 12:40	0° \cap			5523 Dec 01 03:54	0° \mathcal{H}	
greatest brilliancy	5521 Jul 15 09:28	3° \cap 16'05	-4.7m		5523 Dec 25 05:24	0° \mathcal{Z}	
desc. node	5521 Jul 23 20:26	5° \cap 21'26		max. Earth dist.	5524 Jan 03 15:12	11° \mathcal{Z} 45'46	1.71663 AU
retrograde	5521 Jul 26 09:57	5° \cap 29'06					
evening set	5521 Aug 11 02:49	0° \cap 44'15		superior conj	5524 Jan 06 02:57	14° \mathcal{Z} 52'42	0°06'07
	5521 Aug 12 09:39	30° \Re Ω		minimum elong	5524 Jan 06 04:28	14° \mathcal{Z} 57'28	0°06'04
inferior conj	5521 Aug 16 22:51	27° Ω 12'29	-5°20'31	behind sun begin	5524 Jan 05 04:54	13° \mathcal{Z} 43'40	
minimum elong	5521 Aug 16 13:17	27° Ω 27'29	5°18'18	behind sun end	5524 Jan 07 04:03	16° \mathcal{Z} 11'17	
min. Earth dist.	5521 Aug 16 12:14	27° Ω 29'08	0.28964 AU	desc. node	5524 Jan 08 15:29	18° \mathcal{Z} 02'10	
morning rise	5521 Aug 21 23:54	24° Ω 07'37			5524 Jan 18 04:38	0° \approx	
direct	5521 Sep 07 10:54	18° Ω 57'57			5524 Feb 11 02:24	0° \mathcal{H}	
greatest brilliancy	5521 Sep 17 14:00	20° Ω 48'09	-4.7m	evening rise	5524 Feb 15 12:15	5° \mathcal{H} 32'21	
	5521 Oct 04 05:52	0° \cap			5524 Mar 05 23:52	0° Υ	
morning max el	5521 Oct 26 07:17	18° \cap 53'29	45°49'33		5524 Mar 29 23:02	0° \mathcal{B}	
	5521 Nov 06 09:26	0° $\underline{\cap}$			5524 Apr 23 02:45	0° \cap	
asc. node	5521 Nov 13 21:55	7° $\underline{\cap}$ 55'38		asc. node	5524 Apr 30 16:52	9° \cap 20'52	
	5521 Dec 03 19:10	0° \cap			5524 May 17 14:21	0° \mathcal{G}	
	5521 Dec 29 09:38	0° \mathcal{H}			5524 Jun 11 14:12	0° Ω	
	5522 Jan 23 03:45	0° \mathcal{Z}			5524 Jul 07 10:06	0° \cap	
	5522 Feb 16 11:23	0° \approx			5524 Aug 03 21:53	0° $\underline{\cap}$	
desc. node	5522 Mar 05 13:09	21° \approx 14'31		evening max el	5524 Aug 16 19:04	12° $\underline{\cap}$ 53'10	45°33'36
	5522 Mar 12 13:34	0° \mathcal{H}		desc. node	5524 Aug 20 08:17	16° $\underline{\cap}$ 14'19	
	5522 Apr 05 13:17	0° Υ			5524 Sep 05 13:44	0° \cap	
	5522 Apr 29 12:46	0° \mathcal{B}		greatest brilliancy	5524 Sep 24 16:16	10° \cap 50'15	-4.7m
morning set	5522 Apr 30 02:27	0° \mathcal{B} 42'48		retrograde	5524 Oct 04 10:26	12° \cap 32'43	
	5522 May 23 13:47	0° \cap		evening set	5524 Oct 22 09:44	6° \cap 30'07	
				inferior conj	5524 Oct 25 18:07	4° \cap 26'12	-8°22'37
superior conj	5522 Jun 08 05:30	19° \cap 27'48	-0°42'26	minimum elong	5524 Oct 25 23:08	4° \cap 18'21	8°22'14
minimum elong	5522 Jun 08 14:22	19° \cap 55'16	0°42'05	min. Earth dist.	5524 Oct 26 10:03	4° \cap 01'19	0.28729 AU
max. Earth dist.	5522 Jun 11 13:21	23° \cap 35'24	1.72527 AU	morning rise	5524 Oct 29 12:22	2° \cap 07'13	
	5522 Jun 16 17:29	0° \mathcal{G}			5524 Nov 02 06:55	30° \Re $\underline{\cap}$	
asc. node	5522 Jun 26 14:30	12° \mathcal{G} 13'16		direct	5524 Nov 16 05:51	26° $\underline{\cap}$ 10'56	
	5522 Jul 11 00:08	0° Ω		greatest brilliancy	5524 Nov 27 05:51	28° $\underline{\cap}$ 24'53	-4.8m
evening rise	5522 Jul 16 06:54	6° Ω 30'25			5524 Nov 30 20:35	0° \cap	
	5522 Aug 04 09:40	0° \cap		asc. node	5524 Dec 11 09:36	6° \cap 25'01	
	5522 Aug 28 22:26	0° $\underline{\cap}$		morning max el	5525 Jan 05 09:24	28° \cap 25'45	46°31'29
	5522 Sep 22 15:40	0° \cap			5525 Jan 06 22:46	0° \mathcal{H}	
desc. node	5522 Oct 16 05:57	28° \cap 20'35			5525 Feb 03 13:29	0° \mathcal{Z}	
	5522 Oct 17 15:17	0° \mathcal{H}			5525 Mar 01 04:38	0° \approx	
	5522 Nov 11 23:52	0° \mathcal{Z}			5525 Mar 26 00:37	0° \mathcal{H}	
	5522 Dec 07 22:54	0° \approx		desc. node	5525 Apr 02 01:13	8° \mathcal{H} 35'07	
	5523 Jan 04 06:03	0° \mathcal{H}			5525 Apr 19 11:45	0° Υ	
evening max el	5523 Jan 12 00:37	7° \mathcal{H} 59'51	47°00'25		5525 May 13 19:15	0° \mathcal{B}	
	5523 Feb 05 14:07	0° Υ			5525 Jun 07 02:09	0° \cap	
asc. node	5523 Feb 06 07:15	0° Υ 31'33			5525 Jul 01 10:00	0° \mathcal{G}	
greatest brilliancy	5523 Feb 21 16:20	9° Υ 13'54	-4.9m	morning set	5525 Jul 10 15:24	11° \mathcal{G} 21'40	
retrograde	5523 Mar 03 16:51	11° Υ 09'04		asc. node	5525 Jul 24 02:17	27° \mathcal{G} 55'14	

	5525 Jul 25 18:49	0°♈		morning rise	5528 Jan 13 01:22	11°♊55'45	
				direct	5528 Jan 27 12:01	7°♊46'32	
superior conj	5525 Aug 16 19:28	27°♈06'22 0°52'51		greatest brilliancy	5528 Feb 07 04:20	9°♊54'49	-4.9m
minimum elong	5525 Aug 16 10:36	26°♈39'05 0°52'29			5528 Mar 06 21:15	0°♊	
max. Earth dist.	5525 Aug 16 21:26	27°♈12'28 1.73425 AU		morning max el	5528 Mar 18 02:03	10°♊49'51	46°59'15
	5525 Aug 19 03:53	0°♈			5528 Apr 05 03:57	0°♈	
	5525 Sep 12 12:44	0°♈		desc. node	5528 Apr 29 13:05	27°♈41'17	
evening rise	5525 Sep 21 21:55	11°♈33'04			5528 May 01 12:44	0°♈	
	5525 Oct 06 21:44	0°♈			5528 May 26 21:50	0°♈	
	5525 Oct 31 07:45	0°♈			5528 Jun 20 21:13	0°♈	
desc. node	5525 Nov 12 17:52	15°♈13'40			5528 Jul 15 16:23	0°♈	
	5525 Nov 24 19:26	0°♈			5528 Aug 09 08:55	0°♈	
	5525 Dec 19 09:10	0°♈		asc. node	5528 Aug 20 14:14	13°♈41'02	
	5526 Jan 13 02:31	0°♈			5528 Sep 02 22:30	0°♈	
	5526 Feb 07 04:48	0°♈		morning set	5528 Sep 17 01:46	17°♈20'24	
	5526 Mar 05 06:02	0°♈			5528 Sep 27 08:42	0°♈	
asc. node	5526 Mar 05 19:05	0°♈36'19		max. Earth dist.	5528 Oct 21 04:31	29°♈24'55	1.72957 AU
evening max el	5526 Mar 25 14:13	21°♈43'27 46°56'15			5528 Oct 21 15:51	0°♈	
	5526 Apr 03 01:21	0°♈					
greatest brilliancy	5526 May 04 12:09	22°♈27'11 -4.9m		superior conj	5528 Oct 23 13:33	2°♈21'24	1°23'17
retrograde	5526 May 15 00:44	24°♈31'03		minimum elong	5528 Oct 23 17:45	2°♈34'25	1°23'16
evening set	5526 May 30 22:48	19°♈33'10			5528 Nov 14 20:57	0°♈	
inferior conj	5526 Jun 05 02:25	16°♈25'03 4°46'39		evening rise	5528 Nov 30 04:04	18°♈59'17	
minimum elong	5526 Jun 05 11:44	16°♈10'31 4°44'11			5528 Dec 09 00:51	0°♈	
min. Earth dist.	5526 Jun 04 23:05	16°♈30'16 0.27925 AU		desc. node	5528 Dec 10 05:39	1°♈29'28	
morning rise	5526 Jun 11 01:11	12°♈51'27			5529 Jan 02 03:56	0°♈	
desc. node	5526 Jun 25 10:32	8°♈26'47			5529 Jan 26 06:43	0°♈	
direct	5526 Jun 26 03:47	8°♈26'10			5529 Feb 19 10:51	0°♈	
greatest brilliancy	5526 Jul 05 22:03	10°♈11'02 -4.8m			5529 Mar 15 19:59	0°♈	
	5526 Aug 04 18:50	0°♈		asc. node	5529 Apr 02 06:57	21°♈09'26	
morning max el	5526 Aug 14 01:50	8°♈33'50 45°47'50			5529 Apr 09 16:31	0°♈	
	5526 Sep 04 04:19	0°♈			5529 May 05 11:51	0°♈	
	5526 Oct 01 07:54	0°♈			5529 Jun 02 10:36	0°♈	
asc. node	5526 Oct 16 12:04	17°♈30'47		evening max el	5529 Jun 04 16:45	2°♈14'14	46°02'23
	5526 Oct 27 02:54	0°♈			5529 Jul 10 10:42	0°♈	
	5526 Nov 21 02:40	0°♈		greatest brilliancy	5529 Jul 13 00:49	1°♈05'26	-4.7m
	5526 Dec 15 14:16	0°♈		desc. node	5529 Jul 22 22:29	3°♈18'20	
	5527 Jan 08 18:30	0°♈		retrograde	5529 Jul 24 02:51	3°♈19'59	
	5527 Feb 01 18:23	0°♈			5529 Aug 06 02:34	30°♈	
desc. node	5527 Feb 05 03:18	4°♈13'39		evening set	5529 Aug 08 16:57	28°♈37'47	
morning set	5527 Feb 09 23:19	10°♈17'39		min. Earth dist.	5529 Aug 14 03:59	25°♈20'39	0.28937 AU
	5527 Feb 25 15:47	0°♈		inferior conj	5529 Aug 14 15:04	25°♈03'17	-5°04'43
	5527 Mar 21 12:10	0°♈		minimum elong	5529 Aug 14 05:43	25°♈17'55	5°02'28
				morning rise	5529 Aug 19 18:43	21°♈55'05	
superior conj	5527 Mar 23 06:22	2°♈12'40 -1°23'39		direct	5529 Sep 05 02:49	16°♈49'04	
minimum elong	5527 Mar 22 23:43	1°♈51'45 1°23'33		greatest brilliancy	5529 Sep 15 05:32	18°♈39'14	-4.7m
max. Earth dist.	5527 Mar 24 21:19	4°♈15'05 1.71214 AU			5529 Oct 04 19:29	0°♈	
	5527 Apr 14 09:19	0°♈		morning max el	5529 Oct 23 23:39	16°♈44'41	45°48'40
evening rise	5527 May 02 20:46	23°♈07'04			5529 Nov 06 03:37	0°♈	
	5527 May 08 09:11	0°♈		asc. node	5529 Nov 12 23:51	7°♈15'57	
asc. node	5527 May 29 04:39	25°♈50'27			5529 Dec 03 09:23	0°♈	
	5527 Jun 01 13:24	0°♈			5529 Dec 28 22:15	0°♈	
	5527 Jun 25 23:14	0°♈			5530 Jan 22 15:34	0°♈	
	5527 Jul 20 16:13	0°♈			5530 Feb 15 22:45	0°♈	
	5527 Aug 14 19:21	0°♈		desc. node	5530 Mar 04 15:17	20°♈46'20	
	5527 Sep 09 14:41	0°♈			5530 Mar 12 00:40	0°♈	
desc. node	5527 Sep 17 20:06	9°♈19'18			5530 Apr 05 00:12	0°♈	
	5527 Oct 06 15:14	0°♈		morning set	5530 Apr 27 14:49	28°♈17'43	
evening max el	5527 Oct 28 18:28	22°♈39'32 46°05'41			5530 Apr 28 23:32	0°♈	
	5527 Nov 05 14:54	0°♈			5530 May 23 00:28	0°♈	
greatest brilliancy	5527 Dec 07 15:27	21°♈40'40 -4.8m					
retrograde	5527 Dec 17 01:40	23°♈19'33		superior conj	5530 Jun 05 19:53	17°♈10'23	-0°45'33
evening set	5527 Dec 31 14:59	19°♈12'40		minimum elong	5530 Jun 06 05:13	17°♈39'23	0°45'10
inferior conj	5528 Jan 06 19:18	15°♈36'19 -0°32'13		max. Earth dist.	5530 Jun 09 04:32	21°♈20'39	1.72483 AU
minimum elong	5528 Jan 06 20:32	15°♈34'25 0°31'48			5530 Jun 16 04:06	0°♈	
min. Earth dist.	5528 Jan 07 06:29	15°♈19'11 0.26970 AU		asc. node	5530 Jun 25 16:28	11°♈46'29	
asc. node	5528 Jan 08 21:24	14°♈19'53			5530 Jul 10 10:46	0°♈	

evening rise	5530 Jul 13 23:43	4°♌21'39			5532 Dec 02 15:34	0°♍	
	5530 Aug 03 20:24	0°♎		asc. node	5532 Dec 10 11:35	5°♍13'16	
	5530 Aug 28 09:24	0°♏		morning max el	5533 Jan 02 23:29	26°♍06'01	46°29'49
	5530 Sep 22 03:04	0°♍			5533 Jan 06 19:38	0°♎	
desc. node	5530 Oct 15 07:58	27°♍50'38			5533 Feb 03 05:01	0°♏	
	5530 Oct 17 03:24	0°♎			5533 Feb 28 18:10	0°♐	
	5530 Nov 11 13:10	0°♏			5533 Mar 25 13:07	0°♑	
	5530 Dec 07 14:23	0°♐		desc. node	5533 Apr 01 03:07	8°♑03'16	
	5531 Jan 04 02:33	0°♑			5533 Apr 18 23:37	0°♒	
evening max el	5531 Jan 09 15:45	5°♑40'10	46°59'20		5533 May 13 06:39	0°♓	
asc. node	5531 Feb 05 09:24	29°♑12'16			5533 Jun 06 13:14	0°♈	
	5531 Feb 06 12:58	0°♒			5533 Jun 30 20:51	0°♉	
greatest brilliancy	5531 Feb 19 05:00	6°♒47'33	-4.9m	morning set	5533 Jul 08 08:11	9°♉12'24	
retrograde	5531 Mar 01 06:40	8°♒43'16		asc. node	5533 Jul 23 04:23	27°♉28'44	
evening set	5531 Mar 18 12:17	2°♒56'02			5533 Jul 25 05:32	0°♊	
inferior conj	5531 Mar 21 21:48	0°♒52'00	8°42'18				
minimum elong	5531 Mar 21 15:27	1°♒01'46	8°41'41	superior conj	5533 Aug 14 13:21	25°♊00'56	0°50'17
min. Earth dist.	5531 Mar 21 09:02	1°♒11'39	0.27025 AU	minimum elong	5533 Aug 14 04:39	24°♊34'13	0°49'55
	5531 Mar 23 07:41	30°♒♑		max. Earth dist.	5533 Aug 14 17:03	25°♊12'21	1.73418 AU
morning rise	5531 Mar 24 18:46	29°♑07'01			5533 Aug 18 14:33	0°♎	
direct	5531 Apr 11 11:17	23°♑07'09			5533 Sep 11 23:27	0°♏	
greatest brilliancy	5531 Apr 20 17:10	24°♑44'42	-4.9m	evening rise	5533 Sep 19 15:59	9°♏27'46	
	5531 May 01 11:51	0°♒			5533 Oct 06 08:37	0°♍	
desc. node	5531 May 28 00:48	21°♒47'15			5533 Oct 30 18:56	0°♎	
morning max el	5531 May 31 12:11	25°♒10'42	46°30'45	desc. node	5533 Nov 11 19:46	14°♎44'44	
	5531 Jun 05 07:35	0°♓			5533 Nov 24 07:01	0°♏	
	5531 Jul 03 05:27	0°♈			5533 Dec 18 21:20	0°♐	
	5531 Jul 29 12:32	0°♉			5534 Jan 12 15:31	0°♑	
	5531 Aug 24 02:32	0°♊			5534 Feb 06 19:12	0°♒	
asc. node	5531 Sep 18 02:09	29°♊50'06		asc. node	5534 Mar 04 21:06	29°♒53'41	
	5531 Sep 18 05:26	0°♎			5534 Mar 04 23:23	0°♓	
	5531 Oct 12 23:16	0°♏		evening max el	5534 Mar 23 03:48	19°♓20'17	46°57'34
	5531 Nov 06 09:39	0°♍			5534 Apr 03 04:13	0°♈	
morning set	5531 Nov 26 00:59	24°♍19'22		greatest brilliancy	5534 May 02 05:00	20°♈10'59	-4.9m
	5531 Nov 30 14:38	0°♎		retrograde	5534 May 12 15:18	22°♈13'13	
	5531 Dec 24 16:10	0°♏		evening set	5534 May 28 16:29	17°♈11'41	
max. Earth dist.	5532 Jan 01 00:40	9°♏11'33	1.71703 AU	inferior conj	5534 Jun 02 17:12	14°♈07'55	5°05'15
				minimum elong	5534 Jun 03 02:53	13°♈52'47	5°02'45
superior conj	5532 Jan 03 15:30	12°♏28'02	0°09'52	min. Earth dist.	5534 Jun 02 14:33	14°♈12'04	0.27892 AU
minimum elong	5532 Jan 03 17:57	12°♏35'41	0°09'46	morning rise	5534 Jun 08 13:42	10°♈37'10	
behind sun begin	5532 Jan 02 21:41	11°♏32'19		direct	5534 Jun 23 17:30	6°♈09'27	
behind sun end	5532 Jan 04 14:12	13°♏39'03		desc. node	5534 Jun 24 12:33	6°♈10'11	
desc. node	5532 Jan 07 17:31	17°♏34'41		greatest brilliancy	5534 Jul 03 12:33	7°♈54'35	-4.8m
	5532 Jan 17 15:28	0°♐			5534 Aug 04 21:50	0°♉	
	5532 Feb 10 13:20	0°♑		morning max el	5534 Aug 11 15:52	6°♉17'47	45°48'46
evening rise	5532 Feb 12 23:23	3°♑02'15			5534 Sep 03 21:11	0°♊	
	5532 Mar 05 10:53	0°♒			5534 Sep 30 21:42	0°♎	
	5532 Mar 29 10:11	0°♓		asc. node	5534 Oct 15 14:00	16°♎58'44	
	5532 Apr 22 14:07	0°♈			5534 Oct 26 15:20	0°♏	
asc. node	5532 Apr 29 18:48	8°♈51'35			5534 Nov 20 14:25	0°♍	
	5532 May 17 02:10	0°♉			5534 Dec 15 01:41	0°♎	
	5532 Jun 11 02:50	0°♊			5535 Jan 08 05:44	0°♏	
	5532 Jul 07 00:25	0°♋			5535 Feb 01 05:31	0°♐	
	5532 Aug 03 16:27	0°♌		desc. node	5535 Feb 04 05:24	3°♐45'22	
evening max el	5532 Aug 14 10:28	10°♌41'29	45°33'23	morning set	5535 Feb 07 09:51	7°♐45'10	
desc. node	5532 Aug 19 10:23	15°♌23'03			5535 Feb 25 02:51	0°♑	
	5532 Sep 06 05:27	0°♍					
greatest brilliancy	5532 Sep 22 06:53	8°♍38'28	-4.7m	superior conj	5535 Mar 20 16:53	29°♑40'04	-1°22'25
retrograde	5532 Oct 02 01:05	10°♍21'03		minimum elong	5535 Mar 20 09:18	29°♑16'14	1°22'18
evening set	5532 Oct 20 02:26	4°♍16'34			5535 Mar 20 23:13	0°♒	
inferior conj	5532 Oct 23 09:45	2°♍14'01	-8°27'05	max. Earth dist.	5535 Mar 21 23:52	1°♒17'28	1.71198 AU
minimum elong	5532 Oct 23 14:03	2°♍07'19	8°26'48		5535 Apr 13 20:23	0°♓	
min. Earth dist.	5532 Oct 24 00:53	1°♍50'21	0.28774 AU	evening rise	5535 Apr 30 08:13	20°♓38'22	
morning rise	5532 Oct 27 01:29	29°♌58'30			5535 May 07 20:17	0°♈	
	5532 Oct 27 00:29	30°♌♏		asc. node	5535 May 28 06:40	25°♈22'12	
direct	5532 Nov 13 21:49	23°♌58'23			5535 Jun 01 00:35	0°♉	
greatest brilliancy	5532 Nov 24 21:04	26°♌11'01	-4.8m		5535 Jun 25 10:36	0°♊	

	5535 Jul 20 03:59	0°♍			5538 Feb 15 10:33	0°♍	
	5535 Aug 14 07:54	0°♌		desc. node	5538 Mar 03 17:15	20°♍16'09	
	5535 Sep 09 04:47	0°♋			5538 Mar 11 12:13	0°♋	
desc. node	5535 Sep 16 22:03	8°♋43'12			5538 Apr 04 11:34	0°♋	
	5535 Oct 06 08:43	0°♊		morning set	5538 Apr 25 02:47	25°♋50'00	
evening max el	5535 Oct 26 07:41	20°♊19'11	46°03'45		5538 Apr 28 10:44	0°♊	
	5535 Nov 05 19:30	0°♊			5538 May 22 11:31	0°♊	
greatest brilliancy	5535 Dec 05 04:29	19°♊16'55	-4.8m				
retrograde	5535 Dec 14 14:31	20°♊55'43		superior conj	5538 Jun 03 09:58	14°♊50'51	-0°48'35
evening set	5535 Dec 29 05:06	16°♊46'27		minimum elong	5538 Jun 03 19:44	15°♊21'11	0°48'12
inferior conj	5536 Jan 04 08:17	13°♊11'50	-0°55'56	max. Earth dist.	5538 Jun 06 21:52	19°♊11'24	1.72433 AU
minimum elong	5536 Jan 04 10:26	13°♊08'33	0°55'14		5538 Jun 15 15:04	0°♊	
min. Earth dist.	5536 Jan 04 20:46	12°♊52'45	0.27015 AU	asc. node	5538 Jun 24 18:34	11°♊19'05	
asc. node	5536 Jan 07 23:32	11°♊00'08			5538 Jul 09 21:45	0°♊	
morning rise	5536 Jan 10 15:00	9°♊30'36		evening rise	5538 Jul 11 16:26	2°♊11'31	
direct	5536 Jan 25 01:36	5°♊20'57			5538 Aug 03 07:29	0°♊	
greatest brilliancy	5536 Feb 04 19:32	7°♊31'14	-4.9m		5538 Aug 27 20:44	0°♊	
	5536 Mar 07 01:10	0°♊			5538 Sep 21 14:49	0°♊	
morning max el	5536 Mar 15 16:34	8°♊27'18	46°59'18	desc. node	5538 Oct 14 09:56	27°♊19'34	
	5536 Apr 04 21:47	0°♋			5538 Oct 16 15:52	0°♋	
desc. node	5536 Apr 28 15:06	27°♋03'54			5538 Nov 11 02:53	0°♋	
	5536 May 01 03:24	0°♋			5538 Dec 07 06:25	0°♋	
	5536 May 26 10:58	0°♋			5539 Jan 04 00:11	0°♋	
	5536 Jun 20 09:27	0°♋		evening max el	5539 Jan 07 06:31	3°♋18'31	46°57'53
	5536 Jul 15 04:02	0°♋		asc. node	5539 Feb 04 11:21	27°♋48'23	
	5536 Aug 08 20:09	0°♋			5539 Feb 07 21:46	0°♋	
asc. node	5536 Aug 19 16:16	13°♋13'18		greatest brilliancy	5539 Feb 16 17:49	4°♋19'38	-4.9m
	5536 Sep 02 09:29	0°♋		retrograde	5539 Feb 26 19:45	6°♋15'05	
morning set	5536 Sep 14 19:25	15°♋13'42		evening set	5539 Mar 15 21:01	0°♋34'37	
	5536 Sep 26 19:33	0°♋			5539 Mar 16 20:09	30°♋	
max. Earth dist.	5536 Oct 19 01:19	27°♋27'12	1.72993 AU	inferior conj	5539 Mar 19 10:29	28°♋24'33	8°34'48
				minimum elong	5539 Mar 19 03:23	28°♋35'30	8°34'02
superior conj	5536 Oct 21 06:53	0°♋12'53	1°23'58	min. Earth dist.	5539 Mar 18 21:24	28°♋44'42	0.26993 AU
minimum elong	5536 Oct 21 10:25	0°♋23'48	1°23'57	morning rise	5539 Mar 22 09:55	26°♋35'49	
	5536 Oct 21 02:43	0°♋		direct	5539 Apr 09 00:16	20°♋40'23	
	5536 Nov 14 07:55	0°♊		greatest brilliancy	5539 Apr 18 05:29	22°♋17'25	-4.9m
evening rise	5536 Nov 27 19:05	16°♊42'34			5539 May 02 17:44	0°♋	
	5536 Dec 08 12:00	0°♋		desc. node	5539 May 27 02:52	20°♋52'48	
desc. node	5536 Dec 09 07:45	1°♋01'20		morning max el	5539 May 29 01:21	22°♋47'00	46°32'19
	5537 Jan 01 15:19	0°♋			5539 Jun 05 04:45	0°♋	
	5537 Jan 25 18:24	0°♋			5539 Jul 02 21:10	0°♋	
	5537 Feb 18 22:54	0°♋			5539 Jul 29 02:02	0°♋	
	5537 Mar 15 08:36	0°♋			5539 Aug 23 14:50	0°♋	
asc. node	5537 Apr 01 08:52	20°♋35'32		asc. node	5539 Sep 17 04:02	29°♋20'47	
	5537 Apr 09 06:08	0°♋			5539 Sep 17 17:04	0°♋	
	5537 May 05 03:34	0°♋			5539 Oct 12 10:29	0°♋	
	5537 Jun 02 08:13	0°♋			5539 Nov 05 20:40	0°♋	
evening max el	5537 Jun 02 09:04	0°♋02'05	46°04'16	morning set	5539 Nov 23 16:51	22°♋05'40	
greatest brilliancy	5537 Jul 10 16:16	28°♋53'47	-4.8m		5539 Nov 30 01:34	0°♋	
	5537 Jul 13 23:01	0°♋			5539 Dec 24 03:06	0°♋	
retrograde	5537 Jul 21 19:49	1°♋09'31		max. Earth dist.	5539 Dec 29 10:03	6°♋36'36	1.71745 AU
desc. node	5537 Jul 22 00:37	1°♋09'29					
	5537 Jul 29 09:44	30°♋		superior conj	5540 Jan 01 04:33	10°♋04'29	0°13'33
evening set	5537 Aug 06 07:17	26°♋30'02		minimum elong	5540 Jan 01 07:52	10°♋14'51	0°13'24
inferior conj	5537 Aug 12 07:15	22°♋52'51	-4°48'20	behind sun begin	5539 Dec 31 17:40	9°♋30'27	
minimum elong	5537 Aug 11 22:11	23°♋07'02	4°46'06	behind sun end	5540 Jan 01 22:04	10°♋59'15	
min. Earth dist.	5537 Aug 11 19:35	23°♋11'07	0.28907 AU	desc. node	5540 Jan 06 19:36	17°♋06'51	
morning rise	5537 Aug 17 13:25	19°♋41'21			5540 Jan 17 02:29	0°♋	
direct	5537 Sep 02 19:08	14°♋39'09		evening rise	5540 Feb 10 10:46	0°♋32'22	
greatest brilliancy	5537 Sep 12 20:31	16°♋28'37	-4.7m		5540 Feb 10 00:28	0°♋	
	5537 Oct 05 06:03	0°♋			5540 Mar 04 22:08	0°♋	
morning max el	5537 Oct 21 16:04	14°♋35'10	45°47'49		5540 Mar 28 21:35	0°♋	
	5537 Nov 05 21:43	0°♋			5540 Apr 22 01:47	0°♋	
asc. node	5537 Nov 12 01:54	6°♋35'59		asc. node	5540 Apr 28 20:49	8°♋21'39	
	5537 Dec 02 23:47	0°♋			5540 May 16 14:18	0°♋	
	5537 Dec 28 11:10	0°♋			5540 Jun 10 15:49	0°♋	
	5538 Jan 22 03:46	0°♋			5540 Jul 06 15:09	0°♋	

	5540 Aug 03 11:43	0°♎		desc. node	5543 Feb 03 07:19	3°♎17'02	
evening max el	5540 Aug 12 00:55	8°♎27'07 45°33'24		morning set	5543 Feb 04 20:43	5°♎14'23	
desc. node	5540 Aug 18 12:18	14°♎29'54			5543 Feb 24 13:44	0°♎	
	5540 Sep 07 02:50	0°♎					
greatest brilliancy	5540 Sep 19 21:40	6°♎26'45 -4.7m		superior conj	5543 Mar 18 03:40	27°♎08'57 -1°21'02	
retrograde	5540 Sep 29 15:50	8°♎09'42		minimum elong	5543 Mar 17 19:14	26°♎42'27 1°20'53	
evening set	5540 Oct 17 18:58	2°♎03'30		max. Earth dist.	5543 Mar 19 04:55	28°♎28'21 1.71183 AU	
inferior conj	5540 Oct 21 01:33	0°♎02'04 -8°30'44			5543 Mar 20 10:03	0°♎	
minimum elong	5540 Oct 21 05:05	29°♎56'30 8°30'32			5543 Apr 13 07:13	0°♎	
	5540 Oct 21 02:51	30°♎♎		evening rise	5543 Apr 27 19:58	18°♎11'27	
min. Earth dist.	5540 Oct 21 16:03	29°♎39'20 0.28818 AU			5543 May 07 07:08	0°♎	
morning rise	5540 Oct 24 15:02	27°♎49'43		asc. node	5543 May 27 08:46	24°♎54'57	
direct	5540 Nov 11 13:28	21°♎45'54			5543 May 31 11:31	0°♎	
greatest brilliancy	5540 Nov 22 12:59	23°♎58'04 -4.8m			5543 Jun 24 21:45	0°♎	
	5540 Dec 03 20:59	0°♎			5543 Jul 19 15:34	0°♎	
asc. node	5540 Dec 09 13:40	4°♎03'31			5543 Aug 13 20:20	0°♎	
morning max el	5540 Dec 31 13:29	23°♎46'03 46°28'19			5543 Sep 08 18:48	0°♎	
	5541 Jan 06 15:51	0°♎		desc. node	5543 Sep 16 00:03	8°♎07'42	
	5541 Feb 02 20:21	0°♎			5543 Oct 06 02:18	0°♎	
	5541 Feb 28 07:37	0°♎		evening max el	5543 Oct 23 21:50	18°♎02'15 46°02'03	
	5541 Mar 25 01:35	0°♎			5543 Nov 06 01:39	0°♎	
desc. node	5541 Mar 31 05:07	7°♎31'45		greatest brilliancy	5543 Dec 02 17:08	16°♎54'24 -4.8m	
	5541 Apr 18 11:29	0°♎		retrograde	5543 Dec 12 03:49	18°♎33'29	
	5541 May 12 18:07	0°♎		evening set	5543 Dec 26 19:39	14°♎21'46	
	5541 Jun 06 00:25	0°♎		inferior conj	5544 Jan 01 21:26	10°♎48'49 -1°19'20	
	5541 Jun 30 07:48	0°♎		minimum elong	5544 Jan 02 00:28	10°♎44'12 1°18'20	
morning set	5541 Jul 06 00:33	7°♎01'26		min. Earth dist.	5544 Jan 02 10:48	10°♎28'26 0.27064 AU	
asc. node	5541 Jul 22 06:21	27°♎01'34		asc. node	5544 Jan 07 01:30	7°♎44'25	
	5541 Jul 24 16:19	0°♎		morning rise	5544 Jan 08 04:35	7°♎07'16	
				direct	5544 Jan 22 15:54	2°♎57'04	
superior conj	5541 Aug 12 06:57	22°♎54'31 0°47'37		greatest brilliancy	5544 Feb 02 10:17	5°♎08'26 -4.9m	
minimum elong	5541 Aug 11 22:30	22°♎28'30 0°47'16			5544 Mar 07 03:06	0°♎	
max. Earth dist.	5541 Aug 12 11:41	23°♎09'04 1.73406 AU		morning max el	5544 Mar 13 07:44	6°♎07'28 46°59'15	
	5541 Aug 18 01:15	0°♎			5544 Apr 04 14:53	0°♎	
	5541 Sep 11 10:10	0°♎		desc. node	5544 Apr 27 17:09	26°♎27'55	
evening rise	5541 Sep 17 10:01	7°♎22'27			5544 Apr 30 17:33	0°♎	
	5541 Oct 05 19:31	0°♎			5544 May 25 23:39	0°♎	
	5541 Oct 30 06:08	0°♎			5544 Jun 19 21:15	0°♎	
desc. node	5541 Nov 10 21:52	14°♎16'25			5544 Jul 14 15:16	0°♎	
	5541 Nov 23 18:38	0°♎			5544 Aug 08 07:00	0°♎	
	5541 Dec 18 09:29	0°♎		asc. node	5544 Aug 18 18:10	12°♎46'13	
	5542 Jan 12 04:30	0°♎			5544 Sep 01 20:07	0°♎	
	5542 Feb 06 09:38	0°♎		morning set	5544 Sep 12 13:01	13°♎07'50	
asc. node	5542 Mar 03 23:02	29°♎10'46			5544 Sep 26 06:06	0°♎	
	5542 Mar 04 16:56	0°♎		max. Earth dist.	5544 Oct 16 21:03	25°♎27'16 1.73025 AU	
evening max el	5542 Mar 20 16:58	16°♎56'32 46°58'46					
	5542 Apr 03 08:35	0°♎		superior conj	5544 Oct 19 00:08	28°♎05'12 1°24'31	
greatest brilliancy	5542 Apr 29 21:08	17°♎54'05 -4.9m		minimum elong	5544 Oct 19 02:58	28°♎13'56 1°24'31	
retrograde	5542 May 10 05:57	19°♎55'33			5544 Oct 20 13:15	0°♎	
evening set	5542 May 26 10:08	14°♎49'50			5544 Nov 13 18:32	0°♎	
inferior conj	5542 May 31 07:55	11°♎50'40 5°23'19		evening rise	5544 Nov 25 10:02	14°♎26'50	
minimum elong	5542 May 31 17:55	11°♎35'05 5°20'48			5544 Dec 07 22:46	0°♎	
min. Earth dist.	5542 May 31 05:50	11°♎53'56 0.27865 AU		desc. node	5544 Dec 08 09:45	0°♎34'03	
morning rise	5542 Jun 06 01:59	8°♎23'15			5545 Jan 01 02:21	0°♎	
direct	5542 Jun 21 07:10	3°♎52'22			5545 Jan 25 05:44	0°♎	
desc. node	5542 Jun 23 14:39	3°♎58'34			5545 Feb 18 10:38	0°♎	
greatest brilliancy	5542 Jul 01 03:17	5°♎38'18 -4.8m			5545 Mar 14 20:55	0°♎	
	5542 Aug 04 23:21	0°♎		asc. node	5545 Mar 31 10:58	20°♎03'04	
morning max el	5542 Aug 09 06:38	4°♎03'24 45°49'47			5545 Apr 08 19:28	0°♎	
	5542 Sep 03 13:40	0°♎			5545 May 04 19:03	0°♎	
	5542 Sep 30 11:15	0°♎		evening max el	5545 May 31 01:43	27°♎52'03 46°06'10	
asc. node	5542 Oct 14 16:05	16°♎27'37			5545 Jun 02 06:06	0°♎	
	5542 Oct 26 03:32	0°♎		greatest brilliancy	5545 Jul 08 08:12	26°♎44'14 -4.8m	
	5542 Nov 20 01:57	0°♎		retrograde	5545 Jul 19 12:37	29°♎00'25	
	5542 Dec 14 12:53	0°♎		desc. node	5545 Jul 21 02:27	28°♎57'27	
	5543 Jan 07 16:46	0°♎		evening set	5545 Aug 03 21:52	24°♎23'44	
	5543 Jan 31 16:28	0°♎		inferior conj	5545 Aug 09 23:29	20°♎43'55 -4°31'37	

minimum elong	5545 Aug 09 14:45	20°Ω57'36	4°29'25			5548 Jan 16 13:15	0°≈	
min. Earth dist.	5545 Aug 09 11:19	21°Ω02'58	0.28875 AU	evening rise		5548 Feb 07 21:58	28°≈02'52	
morning rise	5545 Aug 15 08:04	17°Ω29'05				5548 Feb 09 11:18	0°℥	
direct	5545 Aug 31 11:47	12°Ω30'53				5548 Mar 04 09:05	0°Υ	
greatest brilliancy	5545 Sep 10 11:23	14°Ω19'10	-4.7m			5548 Mar 28 08:42	0°♄	
	5545 Oct 05 13:13	0°♍				5548 Apr 21 13:12	0°♊	
morning max el	5545 Oct 19 07:53	12°♍25'24	45°46'53	asc. node		5548 Apr 27 22:53	7°♊52'40	
	5545 Nov 05 15:00	0°♌				5548 May 16 02:12	0°♎	
asc. node	5545 Nov 11 03:56	5°♌57'30				5548 Jun 10 04:36	0°♏	
	5545 Dec 02 13:38	0°♍				5548 Jul 06 05:46	0°♍	
	5545 Dec 27 23:36	0°♎				5548 Aug 03 07:12	0°♌	
	5546 Jan 21 15:29	0°♏		evening max el		5548 Aug 09 14:51	6°♌12'20	45°33'34
	5546 Feb 14 21:53	0°≈		desc. node		5548 Aug 17 14:22	13°♌36'55	
desc. node	5546 Mar 02 19:11	19°≈47'21				5548 Sep 08 07:41	0°♍	
	5546 Mar 10 23:19	0°℥		greatest brilliancy		5548 Sep 17 12:05	4°♍15'40	-4.7m
	5546 Apr 03 22:30	0°Υ		retrograde		5548 Sep 27 06:55	5°♍59'40	
morning set	5546 Apr 22 14:37	23°Υ23'06		evening set		5548 Oct 15 11:09	29°♌52'03	
	5546 Apr 27 21:31	0°♄				5548 Oct 15 05:51	30°♎♌	
	5546 May 21 22:10	0°♊		inferior conj		5548 Oct 18 17:23	27°♌51'14	-8°33'29
superior conj	5546 Jun 01 00:01	12°♊32'20	-0°51'33	minimum elong		5548 Oct 18 20:09	27°♌46'54	8°33'22
minimum elong	5546 Jun 01 10:09	13°♊03'49	0°51'10	min. Earth dist.		5548 Oct 19 07:09	27°♌29'42	0.28862 AU
max. Earth dist.	5546 Jun 04 15:57	17°♊05'32	1.72380 AU	morning rise		5548 Oct 22 04:57	25°♌41'47	
	5546 Jun 15 01:39	0°♎		direct		5548 Nov 09 05:04	19°♌34'25	
asc. node	5546 Jun 23 20:31	10°♎52'29		greatest brilliancy		5548 Nov 20 05:12	21°♌46'41	-4.8m
evening rise	5546 Jul 09 09:06	0°♏02'27		asc. node		5548 Dec 04 17:47	0°♍	
	5546 Jul 09 08:19	0°♏		morning max el		5548 Dec 08 15:38	2°♍56'15	
	5546 Aug 02 18:09	0°♍				5548 Dec 29 03:58	21°♍28'03	46°26'41
	5546 Aug 27 07:38	0°♌				5549 Jan 06 11:15	0°♎	
	5546 Sep 21 02:12	0°♍				5549 Feb 02 11:20	0°♏	
desc. node	5546 Oct 13 12:00	26°♍49'47				5549 Feb 27 20:49	0°≈	
	5546 Oct 16 04:02	0°♎		desc. node		5549 Mar 24 13:50	0°℥	
	5546 Nov 10 16:23	0°♏				5549 Mar 30 07:15	7°℥01'10	
	5546 Dec 06 22:22	0°≈				5549 Apr 17 23:09	0°Υ	
	5547 Jan 03 22:13	0°℥				5549 May 12 05:22	0°♄	
evening max el	5547 Jan 04 20:21	0°℥55'38	46°56'27			5549 Jun 05 11:24	0°♊	
asc. node	5547 Feb 03 13:17	26°℥22'45		morning set		5549 Jun 29 18:35	0°♎	
	5547 Feb 09 21:31	0°Υ		asc. node		5549 Jul 03 16:43	4°♎50'12	
greatest brilliancy	5547 Feb 14 07:10	1°Υ53'32	-4.9m			5549 Jul 21 08:18	26°♎34'48	
retrograde	5547 Feb 24 08:19	3°Υ48'03				5549 Jul 24 02:58	0°♏	
	5547 Mar 10 02:17	30°♎℥		superior conj		5549 Aug 10 00:29	20°♏48'13	0°44'54
evening set	5547 Mar 13 05:35	28°℥14'41		minimum elong		5549 Aug 09 16:18	20°♏23'02	0°44'32
inferior conj	5547 Mar 16 23:12	25°℥58'23	8°26'19	max. Earth dist.		5549 Aug 10 06:06	21°♏05'31	1.73394 AU
minimum elong	5547 Mar 16 15:22	26°℥10'28	8°25'22			5549 Aug 17 11:49	0°♍	
min. Earth dist.	5547 Mar 16 10:09	26°℥18'31	0.26963 AU			5549 Sep 10 20:47	0°♌	
morning rise	5547 Mar 20 01:19	24°℥05'30		evening rise		5549 Sep 15 04:09	5°♌17'56	
direct	5547 Apr 06 12:44	18°℥14'44				5549 Oct 05 06:16	0°♍	
greatest brilliancy	5547 Apr 15 18:29	19°℥51'52	-4.9m			5549 Oct 29 17:11	0°♎	
	5547 May 03 14:53	0°Υ		desc. node		5549 Nov 09 23:54	13°♎48'19	
desc. node	5547 May 26 04:53	20°Υ00'18				5549 Nov 23 06:07	0°♏	
morning max el	5547 May 26 13:32	20°Υ21'41	46°33'52			5549 Dec 17 21:36	0°≈	
	5547 Jun 05 00:49	0°♄				5550 Jan 11 17:32	0°℥	
	5547 Jul 02 12:18	0°♊				5550 Feb 06 00:15	0°Υ	
	5547 Jul 28 15:03	0°♎		asc. node		5550 Mar 03 01:08	28°Υ27'32	
	5547 Aug 23 02:43	0°♏				5550 Mar 04 10:58	0°♄	
asc. node	5547 Sep 16 06:10	28°♏53'21		evening max el		5550 Mar 18 06:31	14°♄33'30	47°00'04
	5547 Sep 17 04:17	0°♍				5550 Apr 03 15:08	0°♊	
	5547 Oct 11 21:20	0°♌		greatest brilliancy		5550 Apr 27 12:30	15°♊35'42	-4.9m
	5547 Nov 05 07:19	0°♍		retrograde		5550 May 07 20:51	17°♊37'14	
morning set	5547 Nov 21 08:38	19°♍52'37		evening set		5550 May 24 03:40	12°♊26'59	
	5547 Nov 29 12:12	0°♎		inferior conj		5550 May 28 22:24	9°♊32'34	5°40'57
	5547 Dec 23 13:47	0°♏		minimum elong		5550 May 29 08:38	9°♊16'37	5°38'28
max. Earth dist.	5547 Dec 26 20:15	4°♏05'05	1.71790 AU	min. Earth dist.		5550 May 28 20:29	9°♊35'33	0.27837 AU
				morning rise		5550 Jun 03 13:53	6°♊09'03	
superior conj	5547 Dec 29 17:30	7°♏41'28	0°17'14	direct		5550 Jun 18 20:57	1°♊34'27	
minimum elong	5547 Dec 29 21:39	7°♏54'27	0°17'02	desc. node		5550 Jun 22 16:34	1°♊51'16	
desc. node	5548 Jan 05 21:31	16°♏39'21		greatest brilliancy		5550 Jun 28 17:18	3°♊20'57	-4.8m

	5550 Aug 04 23:36	0°☾		asc. node	5553 Mar 30 12:57	19°♊29'26	
morning max el	5550 Aug 06 22:02	1°☾50'31	45°50'49		5553 Apr 08 09:09	0°♊	
	5550 Sep 03 05:50	0°♊			5553 May 04 11:09	0°☾	
	5550 Sep 30 00:41	0°♊		evening max el	5553 May 28 17:59	25°☾39'42	46°07'57
	5550 Oct 13 18:05	15°♊56'25			5553 Jun 02 05:25	0°♊	
asc. node	5550 Oct 25 15:41	0°♊		greatest brilliancy	5553 Jul 06 00:48	24°♊33'53	-4.8m
	5550 Nov 19 13:27	0°♊			5553 Jul 17 04:55	26°♊49'34	
	5550 Dec 14 00:03	0°♊		retrograde	5553 Jul 20 04:32	26°♊38'56	
	5551 Jan 07 03:47	0°☾		desc. node	5553 Aug 01 12:30	22°♊15'41	
	5551 Jan 31 03:24	0°≈		evening set	5553 Aug 07 03:15	18°♊52'50	0.28841 AU
morning set	5551 Feb 02 07:45	2°≈44'07		min. Earth dist.	5553 Aug 07 15:37	18°♊33'26	-4°14'27
desc. node	5551 Feb 02 09:21	2°≈49'07		inferior conj	5553 Aug 07 15:37	18°♊33'26	-4°14'27
	5551 Feb 24 00:39	0°♊		minimum elong	5553 Aug 07 07:16	18°♊46'33	4°12'17
				morning rise	5553 Aug 13 02:30	15°♊15'13	
				direct	5553 Aug 29 04:01	10°♊21'12	
superior conj	5551 Mar 15 14:03	24°♊36'15	-1°19'28	greatest brilliancy	5553 Sep 08 02:18	12°♊08'16	-4.7m
minimum elong	5551 Mar 15 04:52	24°♊07'21	1°19'17		5553 Oct 05 18:41	0°♊	
max. Earth dist.	5551 Mar 16 11:41	25°♊44'16	1.71174 AU	morning max el	5553 Oct 16 22:37	10°♊11'55	45°46'00
	5551 Mar 19 21:00	0°♊			5553 Nov 05 08:17	0°♊	
	5551 Apr 12 18:10	0°♊		asc. node	5553 Nov 10 05:54	5°♊18'10	
evening rise	5551 Apr 25 07:09	15°♊42'15			5553 Dec 02 03:43	0°♊	
	5551 May 06 18:06	0°♊			5553 Dec 27 12:18	0°♊	
asc. node	5551 May 26 10:39	24°♊26'42			5554 Jan 21 03:29	0°☾	
	5551 May 30 22:34	0°☾			5554 Feb 14 09:29	0°≈	
	5551 Jun 24 09:02	0°♊		desc. node	5554 Mar 01 21:20	19°≈18'22	
	5551 Jul 19 03:20	0°♊			5554 Mar 10 10:40	0°♊	
	5551 Aug 13 08:58	0°♊			5554 Apr 03 09:39	0°♊	
desc. node	5551 Sep 08 09:08	0°♊		morning set	5554 Apr 20 02:39	20°♊56'00	
	5551 Sep 15 02:08	7°♊31'38			5554 Apr 27 08:32	0°♊	
	5551 Oct 05 20:29	0°♊			5554 May 21 09:06	0°♊	
evening max el	5551 Oct 21 12:41	15°♊46'47	46°00'23				
	5551 Nov 06 10:23	0°☾		superior conj	5554 May 29 14:06	10°♊13'00	-0°54'26
greatest brilliancy	5551 Nov 30 05:54	14°☾32'13	-4.8m	minimum elong	5554 May 30 00:32	10°♊45'24	0°54'03
retrograde	5551 Dec 09 17:12	16°☾11'12		max. Earth dist.	5554 Jun 02 09:27	14°♊56'52	1.72330 AU
evening set	5551 Dec 24 10:30	11°☾57'13			5554 Jun 14 12:33	0°☾	
inferior conj	5551 Dec 30 10:39	8°☾25'56	-1°42'20	asc. node	5554 Jun 22 22:30	10°☾24'56	
minimum elong	5551 Dec 30 14:32	8°☾20'01	1°41'06		5554 Jul 07 01:31	27°☾51'23	
min. Earth dist.	5551 Dec 31 00:41	8°☾04'29	0.27111 AU	evening rise	5554 Jul 08 19:15	0°♊	
morning rise	5552 Jan 05 17:58	4°☾44'13			5554 Aug 02 05:12	0°♊	
asc. node	5552 Jan 06 03:26	4°☾31'40			5554 Aug 26 18:57	0°♊	
	5552 Jan 20 06:20	0°☾33'36			5554 Sep 20 13:59	0°♊	
direct	5552 Jan 31 00:30	2°☾45'04	-4.9m	desc. node	5554 Oct 12 13:58	26°♊18'30	
greatest brilliancy	5552 Mar 07 03:49	0°≈			5554 Oct 15 16:39	0°♊	
morning max el	5552 Mar 10 22:24	3°≈46'12	46°58'55		5554 Nov 10 06:25	0°☾	
	5552 Apr 04 07:48	0°♊			5554 Dec 06 15:03	0°≈	
desc. node	5552 Apr 26 19:08	25°♊51'21		evening max el	5555 Jan 02 09:21	28°≈29'29	46°54'59
	5552 Apr 30 07:46	0°♊			5555 Jan 03 21:41	0°♊	
	5552 May 25 12:31	0°♊		asc. node	5555 Feb 02 15:27	24°♊53'21	
	5552 Jun 19 09:17	0°♊			5555 Feb 11 20:59	29°♊26'52	-4.9m
	5552 Jul 14 02:43	0°☾		greatest brilliancy	5555 Feb 13 12:18	0°♊	
	5552 Aug 07 18:05	0°♊			5555 Feb 21 20:41	1°♊20'19	
asc. node	5552 Aug 17 20:17	12°♊19'07		retrograde	5555 Mar 01 22:35	30°♊	
	5552 Sep 01 06:59	0°♊			5555 Mar 10 14:06	25°♊54'02	
morning set	5552 Sep 10 06:25	11°♊00'43		evening set	5555 Mar 14 11:59	23°♊31'35	8°16'58
	5552 Sep 25 16:52	0°♊		inferior conj	5555 Mar 14 03:29	23°♊44'43	8°15'48
max. Earth dist.	5552 Oct 14 15:08	23°♊21'28	1.73056 AU	minimum elong	5555 Mar 13 23:15	23°♊51'14	0.26930 AU
				min. Earth dist.	5555 Mar 17 16:59	21°♊34'19	
superior conj	5552 Oct 16 17:23	25°♊56'46	1°24'57	morning rise	5555 Apr 04 00:45	15°♊48'15	
minimum elong	5552 Oct 16 19:30	26°♊03'21	1°24'58	direct	5555 Apr 13 07:55	17°♊26'11	-4.9m
	5552 Oct 20 00:03	0°♊		greatest brilliancy	5555 May 04 06:53	0°♊	
	5552 Nov 13 05:25	0°♊		morning max el	5555 May 24 01:27	17°♊54'54	46°35'30
evening rise	5552 Nov 23 01:05	12°♊10'35			5555 May 25 06:51	19°♊08'03	
	5552 Dec 07 11:40	0°☾05'45		desc. node	5555 Jun 04 20:29	0°♊	
desc. node	5552 Dec 07 09:49	0°☾			5555 Jul 02 03:28	0°♊	
	5552 Dec 31 13:36	0°≈			5555 Jul 28 04:17	0°☾	
	5553 Jan 24 17:17	0°♊			5555 Aug 22 14:54	0°♊	
	5553 Feb 17 22:35	0°♊		asc. node	5555 Sep 15 08:09	28°♊24'25	
	5553 Mar 14 09:29	0°♊			5555 Sep 16 15:50	0°♊	

	5555 Oct 11 08:31	0°♄		greatest brilliancy	5558 Apr 25 03:32	13°♄16'12	-4.9m
	5555 Nov 04 18:20	0°♍		retrograde	5558 May 05 12:15	15°♄18'06	
morning set	5555 Nov 19 00:23	17°♍38'29		evening set	5558 May 21 21:18	10°♄03'17	
	5555 Nov 28 23:10	0°♎		inferior conj	5558 May 26 12:52	7°♄13'38	5°58'11
	5555 Dec 23 00:49	0°♏		minimum elong	5558 May 26 23:17	6°♄57'26	5°55'44
max. Earth dist.	5555 Dec 24 09:22	1°♏41'41	1.71838 AU	min. Earth dist.	5558 May 26 10:46	7°♄16'53	0.27806 AU
				morning rise	5558 Jun 01 01:34	3°♄54'28	
superior conj	5555 Dec 27 06:28	5°♏17'34	0°20'51		5558 Jun 10 10:48	30°♋♄	
minimum elong	5555 Dec 27 11:27	5°♏33'05	0°20'38	direct	5558 Jun 16 11:13	29°♋15'59	
desc. node	5556 Jan 04 23:33	16°♏11'08		desc. node	5558 Jun 21 18:36	29°♋48'20	
	5556 Jan 16 00:22	0°♐			5558 Jun 22 16:20	0°♄	
evening rise	5556 Feb 05 09:20	25°♐32'49		greatest brilliancy	5558 Jun 26 06:40	1°♄02'21	-4.8m
	5556 Feb 08 22:31	0°♑		morning max el	5558 Aug 04 13:52	29°♄38'27	45°51'58
	5556 Mar 03 20:24	0°♒			5558 Aug 04 22:50	0°♄	
	5556 Mar 27 20:10	0°♓			5558 Sep 02 21:46	0°♄	
	5556 Apr 21 00:54	0°♄			5558 Sep 29 14:03	0°♎	
asc. node	5556 Apr 27 00:48	7°♄22'24		asc. node	5558 Oct 12 20:00	15°♎24'50	
	5556 May 15 14:22	0°♅			5558 Oct 25 03:53	0°♄	
	5556 Jun 09 17:41	0°♆			5558 Nov 19 01:04	0°♍	
	5556 Jul 05 20:50	0°♎			5558 Dec 13 11:23	0°♎	
	5556 Aug 03 03:40	0°♏			5559 Jan 06 14:57	0°♏	
evening max el	5556 Aug 07 05:17	3°♏58'02	45°33'43	morning set	5559 Jan 30 18:53	0°♐13'48	
desc. node	5556 Aug 16 16:26	12°♏41'55			5559 Jan 30 14:29	0°♐	
	5556 Sep 10 02:35	0°♍		desc. node	5559 Feb 01 11:26	2°♐20'54	
greatest brilliancy	5556 Sep 15 02:02	2°♍03'13	-4.7m		5559 Feb 23 11:43	0°♑	
retrograde	5556 Sep 24 22:36	3°♍48'59					
	5556 Oct 08 23:54	30°♋♄		superior conj	5559 Mar 13 00:20	22°♑02'47	-1°17'44
evening set	5556 Oct 13 03:05	27°♄40'13		minimum elong	5559 Mar 12 14:27	21°♑31'42	1°17'30
inferior conj	5556 Oct 16 09:18	25°♄39'35	-8°35'29	max. Earth dist.	5559 Mar 13 20:11	23°♑05'14	1.71165 AU
minimum elong	5556 Oct 16 11:17	25°♄36'29	8°35'25		5559 Mar 19 08:03	0°♒	
min. Earth dist.	5556 Oct 16 22:01	25°♄19'41	0.28907 AU		5559 Apr 12 05:14	0°♓	
morning rise	5556 Oct 19 19:17	23°♄32'40		evening rise	5559 Apr 22 18:16	13°♓12'18	
direct	5556 Nov 06 21:02	17°♄22'10			5559 May 06 05:12	0°♄	
greatest brilliancy	5556 Nov 17 21:14	19°♄34'30	-4.8m	asc. node	5559 May 25 12:42	23°♄58'29	
	5556 Dec 05 09:37	0°♍			5559 May 30 09:46	0°♅	
asc. node	5556 Dec 07 17:37	1°♍49'51			5559 Jun 23 20:27	0°♆	
morning max el	5556 Dec 26 19:20	19°♍11'35	46°25'04		5559 Jul 18 15:11	0°♎	
	5557 Jan 06 06:26	0°♎			5559 Aug 12 21:41	0°♏	
	5557 Feb 02 02:26	0°♏			5559 Sep 07 23:36	0°♍	
	5557 Feb 27 10:14	0°♐		desc. node	5559 Sep 14 04:05	6°♍54'57	
	5557 Mar 24 02:20	0°♑			5559 Oct 05 15:05	0°♎	
desc. node	5557 Mar 29 09:08	6°♑28'57		evening max el	5559 Oct 19 03:34	13°♎31'33	45°58'30
	5557 Apr 17 11:04	0°♒			5559 Nov 06 22:11	0°♏	
	5557 May 11 16:53	0°♓		greatest brilliancy	5559 Nov 27 19:15	12°♏10'47	-4.8m
	5557 Jun 04 22:36	0°♄		retrograde	5559 Dec 07 06:13	13°♏48'51	
	5557 Jun 29 05:33	0°♅		evening set	5559 Dec 22 01:35	9°♏32'36	
morning set	5557 Jul 01 09:11	2°♅39'14		inferior conj	5559 Dec 27 23:58	6°♏03'13	-2°05'07
asc. node	5557 Jul 20 10:24	26°♅07'59		minimum elong	5559 Dec 28 04:39	5°♏56'02	2°03'38
	5557 Jul 23 13:46	0°♆		min. Earth dist.	5559 Dec 28 14:55	5°♏40'19	0.27163 AU
				morning rise	5560 Jan 03 07:09	2°♏21'18	
superior conj	5557 Aug 07 18:15	18°♆42'02	0°42'08	asc. node	5560 Jan 05 05:33	1°♏22'03	
minimum elong	5557 Aug 07 10:22	18°♆17'48	0°41'46		5560 Jan 08 09:14	30°♋♎	
max. Earth dist.	5557 Aug 08 02:35	19°♆07'40	1.73384 AU	direct	5560 Jan 17 20:37	28°♎10'13	
	5557 Aug 16 22:34	0°♎			5560 Jan 27 15:47	0°♏	
	5557 Sep 10 07:36	0°♏		greatest brilliancy	5560 Jan 28 15:03	0°♏21'45	-4.9m
evening rise	5557 Sep 12 22:33	3°♏13'35			5560 Mar 07 03:31	0°♐	
	5557 Oct 04 17:18	0°♍		morning max el	5560 Mar 08 12:14	1°♐22'25	46°58'33
	5557 Oct 29 04:31	0°♎			5560 Apr 04 00:28	0°♑	
desc. node	5557 Nov 09 01:48	13°♎18'59		desc. node	5560 Apr 25 21:08	25°♑15'01	
	5557 Nov 22 17:53	0°♏			5560 Apr 29 21:53	0°♒	
	5557 Dec 17 10:00	0°♐			5560 May 25 01:18	0°♓	
	5558 Jan 11 06:54	0°♑			5560 Jun 18 21:16	0°♄	
	5558 Feb 05 15:18	0°♒			5560 Jul 13 14:08	0°♅	
asc. node	5558 Mar 02 03:06	27°♒42'38			5560 Aug 07 05:07	0°♆	
	5558 Mar 04 05:44	0°♓		asc. node	5560 Aug 16 22:16	11°♆51'48	
evening max el	5558 Mar 15 21:02	12°♓12'08	47°01'17		5560 Aug 31 17:46	0°♎	
	5558 Apr 04 00:34	0°♄		morning set	5560 Sep 08 00:12	8°♎55'05	

	5560 Sep 25 03:33	0°♄		morning rise	5563 Mar 15 08:53	19°♋03'18	
max. Earth dist.	5560 Oct 12 08:59	21°♄15'29	1.73085 AU	direct	5563 Apr 01 12:40	13°♋21'52	
				greatest brilliancy	5563 Apr 10 21:38	15°♋01'08	-4.9m
superior conj	5560 Oct 14 11:10	23°♄50'29	1°25'15		5563 May 04 18:42	0°♊	
minimum elong	5560 Oct 14 12:35	23°♄54'53	1°25'16	morning max el	5563 May 21 14:10	15°♊30'16	46°37'07
	5560 Oct 19 10:43	0°♋		desc. node	5563 May 24 08:56	18°♊17'20	
	5560 Nov 12 16:11	0°♊			5563 Jun 04 15:28	0°♊	
evening rise	5560 Nov 20 16:36	9°♊56'14			5563 Jul 01 18:16	0°♊	
desc. node	5560 Dec 06 13:48	29°♊38'20			5563 Jul 27 17:12	0°♊	
	5560 Dec 06 20:47	0°♊			5563 Aug 22 02:47	0°♊	
	5560 Dec 31 00:50	0°♊		asc. node	5563 Sep 14 10:03	27°♊56'07	
	5561 Jan 24 04:51	0°♊			5563 Sep 16 03:06	0°♊	
	5561 Feb 17 10:34	0°♊			5563 Oct 10 19:25	0°♊	
	5561 Mar 13 22:06	0°♊			5563 Nov 04 05:02	0°♋	
asc. node	5561 Mar 29 14:53	18°♋55'30		morning set	5563 Nov 16 16:32	15°♋26'39	
	5561 Apr 07 22:56	0°♋			5563 Nov 28 09:48	0°♋	
	5561 May 04 03:28	0°♋		max. Earth dist.	5563 Dec 22 01:06	29°♋27'34	1.71880 AU
evening max el	5561 May 26 09:17	23°♋24'58	46°09'46		5563 Dec 22 11:29	0°♋	
	5561 Jun 02 05:44	0°♋					
greatest brilliancy	5561 Jul 03 17:59	22°♋24'20	-4.8m	superior conj	5563 Dec 24 20:00	2°♋56'34	0°24'23
retrograde	5561 Jul 14 20:53	24°♋39'02		minimum elong	5563 Dec 25 01:44	3°♋14'27	0°24'08
desc. node	5561 Jul 19 06:38	24°♋15'50		desc. node	5564 Jan 04 01:38	15°♋44'15	
evening set	5561 Jul 30 03:17	20°♋07'39			5564 Jan 15 11:06	0°♋	
inferior conj	5561 Aug 05 07:46	16°♋23'27	-3°56'47	evening rise	5564 Feb 02 21:15	23°♋05'48	
minimum elong	5561 Aug 04 23:51	16°♋35'53	3°54'41		5564 Feb 08 09:20	0°♋	
min. Earth dist.	5561 Aug 04 19:38	16°♋42'30	0.28804 AU		5564 Mar 03 07:22	0°♋	
morning rise	5561 Aug 10 20:51	13°♋01'50			5564 Mar 27 07:20	0°♋	
direct	5561 Aug 26 19:39	8°♋11'52			5564 Apr 20 12:24	0°♋	
greatest brilliancy	5561 Sep 05 17:45	9°♋58'19	-4.7m	asc. node	5564 Apr 26 02:50	6°♋53'08	
	5561 Oct 05 22:01	0°♋			5564 May 15 02:23	0°♋	
morning max el	5561 Oct 14 12:50	7°♋57'52	45°45'24		5564 Jun 09 06:40	0°♋	
	5561 Nov 05 00:55	0°♋			5564 Jul 05 11:54	0°♋	
asc. node	5561 Nov 09 07:55	4°♋40'07			5564 Aug 03 00:36	0°♋	
	5561 Dec 01 17:21	0°♋		evening max el	5564 Aug 04 20:23	1°♋45'57	45°34'05
	5561 Dec 27 00:41	0°♋		desc. node	5564 Aug 15 18:20	11°♋46'00	
	5562 Jan 20 15:14	0°♋		greatest brilliancy	5564 Sep 12 15:26	29°♋50'52	-4.7m
	5562 Feb 13 20:55	0°♋			5564 Sep 13 02:14	0°♋	
desc. node	5562 Feb 28 23:15	18°♋49'08		retrograde	5564 Sep 22 14:38	1°♋38'44	
	5562 Mar 09 21:54	0°♋			5564 Oct 01 17:10	30°♋♄	
	5562 Apr 02 20:43	0°♋		evening set	5564 Oct 10 18:38	25°♋29'19	
morning set	5562 Apr 17 14:00	18°♋26'57		inferior conj	5564 Oct 14 01:03	23°♋28'24	-8°36'50
	5562 Apr 26 19:27	0°♋		minimum elong	5564 Oct 14 02:15	23°♋26'30	8°36'48
	5562 May 20 19:54	0°♋		min. Earth dist.	5564 Oct 14 12:27	23°♋10'35	0.28945 AU
				morning rise	5564 Oct 17 09:45	21°♋23'36	
superior conj	5562 May 27 03:43	7°♋52'32	-0°57'16	direct	5564 Nov 04 13:14	15°♋10'32	
minimum elong	5562 May 27 14:21	8°♋25'37	0°56'52	greatest brilliancy	5564 Nov 15 12:29	17°♋22'14	-4.8m
max. Earth dist.	5562 May 31 00:50	12°♋42'06	1.72276 AU		5564 Dec 05 21:01	0°♋	
	5562 Jun 13 23:17	0°♋		asc. node	5564 Dec 06 19:42	0°♋46'10	
asc. node	5562 Jun 22 00:35	9°♋58'13		morning max el	5564 Dec 24 11:34	16°♋58'31	46°23'38
evening rise	5562 Jul 04 17:34	25°♋39'45			5565 Jan 06 00:42	0°♋	
	5562 Jul 08 06:00	0°♋			5565 Feb 01 16:54	0°♋	
	5562 Aug 01 16:05	0°♋			5565 Feb 26 23:05	0°♋	
	5562 Aug 26 06:05	0°♋			5565 Mar 23 14:20	0°♋	
	5562 Sep 20 01:34	0°♋		desc. node	5565 Mar 28 11:10	5°♋58'44	
desc. node	5562 Oct 11 15:58	25°♋47'58			5565 Apr 16 22:32	0°♋	
	5562 Oct 15 05:03	0°♋			5565 May 11 04:02	0°♋	
	5562 Nov 09 20:13	0°♋			5565 Jun 04 09:30	0°♋	
	5562 Dec 06 07:37	0°♋			5565 Jun 28 16:15	0°♋	
evening max el	5562 Dec 30 21:39	26°♋02'57	46°53'23	morning set	5565 Jun 29 01:11	0°♋27'34	
	5563 Jan 03 21:44	0°♋		asc. node	5565 Jul 19 12:22	25°♋41'29	
asc. node	5563 Feb 01 17:21	23°♋21'12			5565 Jul 23 00:19	0°♋	
greatest brilliancy	5563 Feb 09 10:24	27°♋00'27	-4.9m				
retrograde	5563 Feb 19 09:03	28°♋53'23		superior conj	5565 Aug 05 11:28	16°♋34'54	0°39'14
evening set	5563 Mar 07 22:25	23°♋33'46		minimum elong	5565 Aug 05 03:58	16°♋11'47	0°38'54
min. Earth dist.	5563 Mar 11 12:21	21°♋24'15	0.26908 AU	max. Earth dist.	5565 Aug 05 23:50	17°♋12'57	1.73371 AU
inferior conj	5563 Mar 12 00:42	21°♋05'14	8°06'23		5565 Aug 16 09:04	0°♋	
minimum elong	5563 Mar 11 15:36	21°♋19'14	8°05'02		5565 Sep 09 18:10	0°♋	

evening rise	5565 Sep 10 16:37	1°♌09'03		morning max el	5568 Mar 06 01:22	28°♊57'23	46°58'15
	5565 Oct 04 04:03	0°♌			5568 Mar 07 02:01	0°♊	
	5565 Oct 28 15:35	0°♌			5568 Apr 03 16:37	0°♌	
desc. node	5565 Nov 08 03:55	12°♌51'08		desc. node	5568 Apr 24 23:12	24°♌39'53	
	5565 Nov 22 05:24	0°♊			5568 Apr 29 11:36	0°♌	
	5565 Dec 16 22:08	0°♊			5568 May 24 13:44	0°♌	
	5566 Jan 10 19:59	0°♌			5568 Jun 18 08:54	0°♌	
	5566 Feb 05 06:05	0°♌			5568 Jul 13 01:17	0°♌	
asc. node	5566 Mar 01 05:04	26°♌58'37			5568 Aug 06 15:57	0°♌	
	5566 Mar 04 00:26	0°♌		asc. node	5568 Aug 16 00:11	11°♌24'53	
evening max el	5566 Mar 13 12:21	9°♌54'20	47°02'24		5568 Aug 31 04:25	0°♌	
	5566 Apr 04 12:26	0°♌		morning set	5568 Sep 05 17:48	6°♌49'10	
greatest brilliancy	5566 Apr 22 18:24	10°♌57'59	-4.9m		5568 Sep 24 14:07	0°♌	
retrograde	5566 May 03 03:43	13°♌00'04		max. Earth dist.	5568 Oct 10 01:32	19°♌05'44	1.73117 AU
evening set	5566 May 19 15:04	7°♌40'48					
inferior conj	5566 May 24 03:21	4°♌55'46	6°14'46	superior conj	5568 Oct 12 04:43	21°♌43'47	1°25'26
minimum elong	5566 May 24 13:54	4°♌39'22	6°12'22	minimum elong	5568 Oct 12 05:25	21°♌45'56	1°25'26
min. Earth dist.	5566 May 24 00:50	4°♌59'40	0.27780 AU		5568 Oct 18 21:19	0°♌	
morning rise	5566 May 29 13:05	1°♌41'03			5568 Nov 12 02:53	0°♌	
	5566 Jun 01 18:50	30°♌		evening rise	5568 Nov 18 07:51	7°♌41'26	
direct	5566 Jun 14 01:53	26°♌58'42		desc. node	5568 Dec 05 15:46	29°♌10'41	
desc. node	5566 Jun 20 20:42	27°♌51'08			5568 Dec 06 07:40	0°♊	
greatest brilliancy	5566 Jun 23 19:38	28°♌44'04	-4.8m		5568 Dec 30 12:01	0°♊	
	5566 Jun 27 01:09	0°♌			5569 Jan 23 16:21	0°♌	
morning max el	5566 Aug 02 05:37	27°♌26'44	45°52'54		5569 Feb 16 22:31	0°♌	
	5566 Aug 04 20:51	0°♌			5569 Mar 13 10:42	0°♌	
	5566 Sep 02 13:15	0°♌		asc. node	5569 Mar 28 16:58	18°♌22'09	
	5566 Sep 29 03:08	0°♌			5569 Apr 07 12:43	0°♌	
asc. node	5566 Oct 11 22:07	14°♌54'35			5569 May 03 19:56	0°♌	
	5566 Oct 24 15:49	0°♌		evening max el	5569 May 23 23:55	21°♌09'05	46°11'44
	5566 Nov 18 12:24	0°♌			5569 Jun 02 07:04	0°♌	
	5566 Dec 12 22:25	0°♌		greatest brilliancy	5569 Jul 01 11:04	20°♌15'18	-4.8m
	5567 Jan 06 01:50	0°♊		retrograde	5569 Jul 12 12:49	22°♌29'30	
morning set	5567 Jan 28 06:13	27°♊44'57		desc. node	5569 Jul 18 08:29	21°♌48'55	
	5567 Jan 30 01:18	0°♊		evening set	5569 Jul 27 18:20	17°♌59'58	
desc. node	5567 Jan 31 13:21	1°♊53'00		min. Earth dist.	5569 Aug 02 12:19	14°♌32'43	0.28771 AU
	5567 Feb 22 22:29	0°♌		inferior conj	5569 Aug 03 00:03	14°♌14'17	-3°38'48
				minimum elong	5569 Aug 02 16:36	14°♌25'59	3°36'48
superior conj	5567 Mar 10 10:54	19°♌31'13	-1°15'50	morning rise	5569 Aug 08 15:15	10°♌49'29	
minimum elong	5567 Mar 10 00:26	18°♌58'15	1°15'35	direct	5569 Aug 24 11:05	6°♌03'04	
max. Earth dist.	5567 Mar 11 04:08	20°♌25'26	1.71151 AU	greatest brilliancy	5569 Sep 03 09:54	7°♌49'40	-4.7m
	5567 Mar 18 18:48	0°♌			5569 Oct 05 23:44	0°♌	
	5567 Apr 11 15:58	0°♌		morning max el	5569 Oct 12 03:19	5°♌44'30	45°44'42
evening rise	5567 Apr 20 05:37	10°♌44'09			5569 Nov 04 17:17	0°♌	
	5567 May 05 15:57	0°♌		asc. node	5569 Nov 08 09:59	4°♌02'25	
asc. node	5567 May 24 14:46	23°♌31'23			5569 Dec 01 06:57	0°♌	
	5567 May 29 20:38	0°♌			5569 Dec 26 13:05	0°♌	
	5567 Jun 23 07:36	0°♌			5570 Jan 20 03:02	0°♊	
	5567 Jul 18 02:51	0°♌			5570 Feb 13 08:22	0°♊	
	5567 Aug 12 10:19	0°♌		desc. node	5570 Feb 28 01:15	18°♊20'06	
	5567 Sep 07 14:06	0°♌			5570 Mar 09 09:08	0°♌	
desc. node	5567 Sep 13 06:07	6°♌18'37			5570 Apr 02 07:48	0°♌	
	5567 Oct 05 10:04	0°♌		morning set	5570 Apr 15 01:11	15°♌57'09	
evening max el	5567 Oct 16 17:48	11°♌15'09	45°56'41		5570 Apr 26 06:23	0°♌	
	5567 Nov 07 13:44	0°♊			5570 May 20 06:44	0°♌	
greatest brilliancy	5567 Nov 25 09:08	9°♊50'33	-4.8m				
retrograde	5567 Dec 04 18:37	11°♊27'11		superior conj	5570 May 24 17:25	5°♌32'11	-0°59'58
evening set	5567 Dec 19 16:50	7°♊08'22		minimum elong	5570 May 25 04:13	6°♌05'47	0°59'36
inferior conj	5567 Dec 25 13:19	3°♊41'17	-2°27'36	max. Earth dist.	5570 May 28 13:35	10°♌18'54	1.72218 AU
minimum elong	5567 Dec 25 18:46	3°♊32'54	2°25'53		5570 Jun 13 10:04	0°♌	
min. Earth dist.	5567 Dec 26 05:27	3°♊16'29	0.27214 AU	asc. node	5570 Jun 21 02:32	9°♌30'59	
morning rise	5567 Dec 31 20:05	29°♌59'19		evening rise	5570 Jul 02 09:47	23°♌28'33	
	5567 Dec 31 19:34	30°♌			5570 Jul 07 16:47	0°♌	
asc. node	5568 Jan 04 07:31	28°♌17'11			5570 Aug 01 02:58	0°♌	
direct	5568 Jan 15 10:27	25°♌47'27			5570 Aug 25 17:15	0°♌	
greatest brilliancy	5568 Jan 26 06:02	27°♌59'34	-4.9m		5570 Sep 19 13:16	0°♌	
	5568 Jan 30 16:12	0°♊		desc. node	5570 Oct 10 18:03	25°♌17'13	

	5570 Oct 14 17:40	0°♊		morning set	5573 Jun 26 17:11	28°♊14'48	
	5570 Nov 09 10:22	0°♋			5573 Jun 28 03:16	0°♋	
	5570 Dec 06 00:47	0°♌		asc. node	5573 Jul 18 14:19	25°♌13'57	
evening max el	5570 Dec 28 10:26	23°♌37'01	46°51'54		5573 Jul 22 11:12	0°♍	
	5571 Jan 03 23:21	0°♎					
asc. node	5571 Jan 31 19:20	21°♎45'00		superior conj	5573 Aug 03 04:47	14°♍26'58	0°36'18
greatest brilliancy	5571 Feb 06 23:20	24°♎32'39	-4.9m	minimum elong	5573 Aug 02 21:41	14°♍05'09	0°35'58
retrograde	5571 Feb 16 21:51	26°♎25'46		max. Earth dist.	5573 Aug 03 21:55	15°♍19'44	1.73353 AU
evening set	5571 Mar 05 06:37	21°♎12'30			5573 Aug 15 19:54	0°♎	
min. Earth dist.	5571 Mar 09 01:07	18°♎56'43	0.26884 AU	evening rise	5573 Sep 08 10:57	29°♎04'19	
inferior conj	5571 Mar 09 13:19	18°♎37'58	7°54'48		5573 Sep 09 05:04	0°♏	
minimum elong	5571 Mar 09 03:41	18°♎52'46	7°53'15		5573 Oct 03 15:07	0°♐	
morning rise	5571 Mar 13 00:51	16°♎31'23			5573 Oct 28 02:57	0°♑	
direct	5571 Mar 30 00:50	10°♎54'34		desc. node	5573 Nov 07 05:55	12°♑22'03	
greatest brilliancy	5571 Apr 08 10:57	12°♎35'03	-4.9m		5573 Nov 21 17:14	0°♒	
	5571 May 05 03:40	0°♓			5573 Dec 16 10:39	0°♓	
morning max el	5571 May 19 03:52	13°♓07'35	46°38'44		5574 Jan 10 09:35	0°♈	
desc. node	5571 May 23 10:58	17°♓27'00			5574 Feb 04 21:35	0°♓	
	5571 Jun 04 10:08	0°♉		asc. node	5574 Feb 28 07:10	26°♓12'35	
	5571 Jul 01 09:03	0°♊			5574 Mar 03 20:21	0°♉	
	5571 Jul 27 06:11	0°♋		evening max el	5574 Mar 11 03:47	7°♉34'50	47°03'18
	5571 Aug 21 14:45	0°♌			5574 Apr 05 05:34	0°♊	
asc. node	5571 Sep 13 12:12	27°♌28'14		greatest brilliancy	5574 Apr 20 09:38	8°♊37'58	-4.9m
	5571 Sep 15 14:27	0°♍		retrograde	5574 Apr 30 18:45	10°♊39'19	
	5571 Oct 10 06:25	0°♎		evening set	5574 May 17 08:39	5°♊15'56	
	5571 Nov 03 15:54	0°♏		inferior conj	5574 May 21 17:35	2°♊35'33	6°30'49
morning set	5571 Nov 14 08:50	13°♏14'43		minimum elong	5574 May 22 04:09	2°♊19'06	6°28'31
	5571 Nov 27 20:41	0°♑		min. Earth dist.	5574 May 21 14:47	2°♊39'54	0.27748 AU
max. Earth dist.	5571 Dec 19 16:21	27°♑11'10	1.71927 AU		5574 May 25 23:52	30°♒♋	
	5571 Dec 21 22:26	0°♒		morning rise	5574 May 27 00:03	29°♒25'25	
				direct	5574 Jun 11 16:11	24°♒39'17	
superior conj	5571 Dec 22 09:26	0°♒34'20	0°27'54	desc. node	5574 Jun 19 22:36	25°♒56'17	
minimum elong	5571 Dec 22 15:51	0°♒54'24	0°27'36	greatest brilliancy	5574 Jun 21 08:16	26°♒23'23	-4.8m
desc. node	5572 Jan 03 03:34	15°♒15'56			5574 Jun 29 07:08	0°♓	
	5572 Jan 14 22:09	0°♓		morning max el	5574 Jul 30 20:27	25°♓11'26	45°53'58
evening rise	5572 Jan 31 08:51	20°♓36'48			5574 Aug 04 18:32	0°♋	
	5572 Feb 07 20:29	0°♈			5574 Sep 02 04:52	0°♌	
	5572 Mar 02 18:39	0°♓			5574 Sep 28 16:27	0°♍	
	5572 Mar 26 18:50	0°♉		asc. node	5574 Oct 11 00:04	14°♍23'01	
	5572 Apr 20 00:12	0°♊			5574 Oct 24 04:01	0°♎	
asc. node	5572 Apr 25 04:53	6°♊22'57			5574 Nov 18 00:01	0°♏	
	5572 May 14 14:44	0°♋			5574 Dec 12 09:43	0°♑	
	5572 Jun 08 20:01	0°♌			5575 Jan 05 12:59	0°♒	
	5572 Jul 05 03:27	0°♍		morning set	5575 Jan 25 17:50	25°♒16'08	
evening max el	5572 Aug 02 12:37	29°♍36'10	45°34'36		5575 Jan 29 12:25	0°♓	
	5572 Aug 02 22:33	0°♎		desc. node	5575 Jan 30 15:24	1°♓24'36	
desc. node	5572 Aug 14 20:26	10°♎48'51			5575 Feb 22 09:37	0°♈	
greatest brilliancy	5572 Sep 10 05:06	27°♎38'57	-4.7m				
retrograde	5572 Sep 20 06:55	29°♎28'42		superior conj	5575 Mar 07 21:21	16°♈58'04	-1°13'47
evening set	5572 Oct 08 10:07	23°♎19'27		minimum elong	5575 Mar 07 10:24	16°♈23'36	1°13'30
inferior conj	5572 Oct 11 17:06	21°♎17'33	-8°37'18	max. Earth dist.	5575 Mar 08 09:05	17°♈34'57	1.71148 AU
minimum elong	5572 Oct 11 17:32	21°♎16'52	8°37'18		5575 Mar 18 05:57	0°♓	
min. Earth dist.	5572 Oct 12 02:55	21°♎02'13	0.28979 AU		5575 Apr 11 03:08	0°♉	
morning rise	5572 Oct 15 00:51	19°♎14'15		evening rise	5575 Apr 17 16:23	8°♉12'34	
direct	5572 Nov 02 06:04	12°♎59'30			5575 May 05 03:11	0°♊	
greatest brilliancy	5572 Nov 13 03:20	15°♎09'38	-4.8m	asc. node	5575 May 23 16:40	23°♊02'18	
asc. node	5572 Dec 05 21:39	29°♎43'26			5575 May 29 07:58	0°♋	
	5572 Dec 06 05:32	0°♌			5575 Jun 22 19:11	0°♌	
morning max el	5572 Dec 22 03:56	14°♌45'19	46°21'50		5575 Jul 17 14:58	0°♍	
	5573 Jan 05 18:52	0°♎			5575 Aug 11 23:23	0°♎	
	5573 Feb 01 07:36	0°♏			5575 Sep 07 05:08	0°♏	
	5573 Feb 26 12:18	0°♐		desc. node	5575 Sep 12 08:11	5°♏41'04	
	5573 Mar 23 02:43	0°♑			5575 Oct 05 05:55	0°♑	
desc. node	5573 Mar 27 13:17	5°♑27'28		evening max el	5575 Oct 14 07:28	8°♑56'43	45°55'03
	5573 Apr 16 10:24	0°♓			5575 Nov 08 10:51	0°♒	
	5573 May 10 15:32	0°♉		greatest brilliancy	5575 Nov 22 23:34	7°♒31'02	-4.8m
	5573 Jun 03 20:43	0°♊		retrograde	5575 Dec 02 07:09	9°♒06'19	

evening set	5575 Dec 17 08:31	4° Z 44'26		minimum elong	5578 May 22 18:01	3° II 45'32	1°02'13
inferior conj	5575 Dec 23 03:02	1° Z 20'05	-2°49'21	max. Earth dist.	5578 May 26 00:58	7° II 51'16	1.72171 AU
minimum elong	5575 Dec 23 09:13	1° Z 10'34	2°47'28		5578 Jun 12 20:56	0° Z	
min. Earth dist.	5575 Dec 23 20:32	0° Z 53'09	0.27267 AU	asc. node	5578 Jun 20 04:33	9° Z 03'38	
	5575 Dec 25 07:18	30° R 7		evening rise	5578 Jun 30 01:45	21° Z 16'15	
morning rise	5575 Dec 29 09:10	27° Z 38'25			5578 Jul 07 03:41	0° Q	
asc. node	5576 Jan 03 09:27	25° Z 17'51			5578 Jul 31 13:59	0° P	
direct	5576 Jan 13 00:13	23° Z 25'14			5578 Aug 25 04:33	0° Z	
greatest brilliancy	5576 Jan 23 21:49	25° Z 38'41	-4.9m		5578 Sep 19 01:06	0° P	
	5576 Feb 01 11:16	0° Z		desc. node	5578 Oct 09 19:59	24° P 45'47	
morning max el	5576 Mar 03 14:26	26° Z 31'39	46°57'45		5578 Oct 14 06:24	0° Z	
	5576 Mar 06 23:49	0° \approx			5578 Nov 09 00:43	0° Z	
	5576 Apr 03 08:46	0° H			5578 Dec 05 18:19	0° \approx	
desc. node	5576 Apr 24 01:09	24° H 03'38		evening max el	5578 Dec 26 00:15	21° \approx 14'02	46°50'26
	5576 Apr 29 01:33	0° Y			5579 Jan 04 02:21	0° H	
	5576 May 24 02:31	0° B		asc. node	5579 Jan 30 21:28	20° H 05'41	
	5576 Jun 17 20:56	0° II		greatest brilliancy	5579 Feb 04 11:45	22° H 04'38	-4.9m
	5576 Jul 12 12:48	0° Z		retrograde	5579 Feb 14 11:10	23° H 58'29	
	5576 Aug 06 03:06	0° Q		evening set	5579 Mar 02 14:54	18° H 51'26	
asc. node	5576 Aug 15 02:19	10° Q 57'36		min. Earth dist.	5579 Mar 06 13:37	16° H 29'51	0.26859 AU
	5576 Aug 30 15:21	0° P		inferior conj	5579 Mar 07 01:56	16° H 10'59	7°42'20
morning set	5576 Sep 03 11:10	4° P 41'43		minimum elong	5579 Mar 06 15:51	16° H 26'26	7°40'36
	5576 Sep 24 00:58	0° Z		morning rise	5579 Mar 10 16:55	13° H 59'39	
max. Earth dist.	5576 Oct 07 19:10	16° Z 58'32	1.73148 AU	direct	5579 Mar 27 13:32	8° H 27'45	
				greatest brilliancy	5579 Apr 05 23:43	10° H 08'48	-4.9m
superior conj	5576 Oct 09 22:20	19° Z 36'29	1°25'29		5579 May 05 09:55	0° Y	
minimum elong	5576 Oct 09 22:19	19° Z 36'27	1°25'30	morning max el	5579 May 16 18:15	10° Y 47'07	46°40'15
	5576 Oct 18 08:09	0° P		desc. node	5579 May 22 12:54	16° Y 37'50	
	5576 Nov 11 13:50	0° Z			5579 Jun 04 04:09	0° B	
evening rise	5576 Nov 15 23:27	5° Z 27'03			5579 Jun 30 23:31	0° II	
desc. node	5576 Dec 04 17:43	28° Z 42'13			5579 Jul 26 19:00	0° Z	
	5576 Dec 05 18:48	0° Z			5579 Aug 21 02:38	0° Q	
	5576 Dec 29 23:23	0° \approx		asc. node	5579 Sep 12 14:10	26° Q 59'55	
	5577 Jan 23 04:02	0° H			5579 Sep 15 01:46	0° P	
	5577 Feb 16 10:37	0° Y			5579 Oct 09 17:23	0° Z	
	5577 Mar 12 23:31	0° B			5579 Nov 03 02:42	0° P	
asc. node	5577 Mar 27 18:57	17° B 47'43		morning set	5579 Nov 12 00:58	11° P 02'37	
	5577 Apr 07 02:52	0° II			5579 Nov 27 07:27	0° Z	
	5577 May 03 13:03	0° Z		max. Earth dist.	5579 Dec 17 06:39	24° Z 52'19	1.71969 AU
evening max el	5577 May 21 14:17	18° Z 51'23	46°13'35				
	5577 Jun 02 10:25	0° Q		superior conj	5579 Dec 19 22:50	28° Z 12'36	0°31'20
greatest brilliancy	5577 Jun 29 03:34	18° Q 03'51	-4.8m	minimum elong	5579 Dec 20 05:54	28° Z 34'39	0°31'02
retrograde	5577 Jul 10 04:49	20° Q 18'15			5579 Dec 21 09:15	0° Z	
desc. node	5577 Jul 17 10:34	19° Q 15'12		desc. node	5580 Jan 02 05:37	14° Z 48'26	
evening set	5577 Jul 25 09:15	15° Q 50'06			5580 Jan 14 09:02	0° \approx	
min. Earth dist.	5577 Jul 31 04:44	12° Q 21'08	0.28737 AU	evening rise	5580 Jan 28 20:32	18° \approx 08'34	
inferior conj	5577 Jul 31 16:05	12° Q 03'20	-3°20'22		5580 Feb 07 07:30	0° H	
minimum elong	5577 Jul 31 09:08	12° Q 14'14	3°18'27		5580 Mar 02 05:47	0° Y	
morning rise	5577 Aug 06 09:21	8° Q 35'41			5580 Mar 26 06:09	0° B	
direct	5577 Aug 22 02:07	3° Q 52'26			5580 Apr 19 11:49	0° II	
greatest brilliancy	5577 Sep 01 02:00	5° Q 39'42	-4.7m	asc. node	5580 Apr 24 06:49	5° II 53'00	
	5577 Oct 06 00:28	0° P			5580 May 14 02:51	0° Z	
morning max el	5577 Oct 09 18:24	3° P 31'57	45°44'13		5580 Jun 08 09:12	0° Q	
	5577 Nov 04 09:31	0° Z			5580 Jul 04 19:00	0° P	
asc. node	5577 Nov 07 11:56	3° Z 24'20		evening max el	5580 Jul 31 05:06	27° P 27'20	45°34'52
	5577 Nov 30 20:33	0° P			5580 Aug 02 21:14	0° Z	
	5577 Dec 26 01:30	0° Z		desc. node	5580 Aug 13 22:28	9° Z 50'39	
	5578 Jan 19 14:51	0° Z		greatest brilliancy	5580 Sep 07 19:04	25° Z 27'27	-4.7m
	5578 Feb 12 19:51	0° \approx		retrograde	5580 Sep 17 22:40	27° Z 18'23	
desc. node	5578 Feb 27 03:22	17° \approx 51'24		evening set	5580 Oct 06 01:08	21° Z 10'10	
	5578 Mar 08 20:22	0° H		inferior conj	5580 Oct 09 08:59	19° Z 06'42	-8°37'05
	5578 Apr 01 18:51	0° Y		minimum elong	5580 Oct 09 08:38	19° Z 07'15	8°37'05
morning set	5578 Apr 12 12:39	13° Y 28'07		min. Earth dist.	5580 Oct 09 17:19	18° Z 53'40	0.29010 AU
	5578 Apr 25 17:19	0° B		morning rise	5580 Oct 12 16:03	17° Z 04'17	
	5578 May 19 17:37	0° II		direct	5580 Oct 30 22:49	10° Z 48'38	
				greatest brilliancy	5580 Nov 10 17:52	12° Z 56'46	-4.8m
superior conj	5578 May 22 07:07	3° II 11'36	-1°02'34	asc. node	5580 Dec 04 23:39	28° Z 42'37	

	5580 Dec 06 11:31	0°♌			5583 Jun 22 06:25	0°♏	
morning max el	5580 Dec 19 19:26	12°♌30'33	46°20'06		5583 Jul 17 02:43	0°♐	
	5581 Jan 05 12:22	0°♑			5583 Aug 11 12:07	0°♐	
	5581 Jan 31 21:51	0°♑			5583 Sep 06 19:55	0°♌	
	5581 Feb 26 01:07	0°♒		desc. node	5583 Sep 11 10:07	5°♌04'07	
	5581 Mar 22 14:45	0°♒			5583 Oct 05 01:58	0°♑	
desc. node	5581 Mar 26 15:09	4°♒56'29		evening max el	5583 Oct 11 20:15	6°♑37'24	45°53'18
	5581 Apr 15 21:57	0°♑			5583 Nov 09 15:20	0°♑	
	5581 May 10 02:43	0°♒		greatest brilliancy	5583 Nov 20 13:28	5°♑11'34	-4.8m
	5581 Jun 03 07:37	0°♒		retrograde	5583 Nov 29 19:39	6°♑46'04	
morning set	5581 Jun 24 09:20	26°♒03'31		evening set	5583 Dec 15 00:07	2°♑20'27	
	5581 Jun 27 13:57	0°♑			5583 Dec 19 00:49	30°♒♑	
asc. node	5581 Jul 17 16:26	24°♑47'56		inferior conj	5583 Dec 20 16:34	28°♑59'09	-3°10'51
	5581 Jul 21 21:44	0°♏		minimum elong	5583 Dec 20 23:26	28°♑48'36	3°08'49
				min. Earth dist.	5583 Dec 21 11:27	28°♑30'08	0.27328 AU
superior conj	5581 Jul 31 22:09	12°♏20'16	0°33'20	morning rise	5583 Dec 26 21:54	25°♑18'18	
minimum elong	5581 Jul 31 15:32	11°♏59'52	0°33'00	asc. node	5584 Jan 02 11:36	22°♑23'17	
max. Earth dist.	5581 Aug 01 20:21	13°♏28'37	1.73335 AU	direct	5584 Jan 10 13:49	21°♑02'59	
	5581 Aug 15 06:25	0°♐		greatest brilliancy	5584 Jan 21 13:53	23°♑18'31	-4.9m
evening rise	5581 Sep 06 05:14	27°♐00'21			5584 Feb 02 16:41	0°♑	
	5581 Sep 08 15:40	0°♑		morning max el	5584 Mar 01 03:53	24°♑07'29	46°57'24
	5581 Oct 03 01:56	0°♌			5584 Mar 06 20:38	0°♒	
	5581 Oct 27 14:05	0°♑			5584 Apr 03 00:22	0°♒	
desc. node	5581 Nov 06 07:50	11°♑53'20		desc. node	5584 Apr 23 03:11	23°♒28'54	
	5581 Nov 21 04:51	0°♑			5584 Apr 28 15:01	0°♑	
	5581 Dec 15 22:58	0°♒			5584 May 23 14:49	0°♒	
	5582 Jan 09 22:59	0°♒			5584 Jun 17 08:31	0°♒	
	5582 Feb 04 12:58	0°♑			5584 Jul 11 23:54	0°♑	
asc. node	5582 Feb 27 09:08	25°♑26'39			5584 Aug 05 13:53	0°♏	
	5582 Mar 03 16:29	0°♒		asc. node	5584 Aug 14 04:15	10°♏30'53	
evening max el	5582 Mar 08 18:30	5°♒14'25	47°04'06		5584 Aug 30 01:56	0°♐	
	5582 Apr 06 04:02	0°♒		morning set	5584 Sep 01 04:44	2°♐35'52	
greatest brilliancy	5582 Apr 18 01:25	6°♒19'30	-4.9m		5584 Sep 23 11:26	0°♑	
retrograde	5582 Apr 28 09:08	8°♒19'24		max. Earth dist.	5584 Oct 05 15:00	14°♑59'16	1.73178 AU
evening set	5582 May 15 02:17	2°♒52'00					
inferior conj	5582 May 19 07:49	0°♒16'25	6°46'20	superior conj	5584 Oct 07 16:09	17°♑31'00	1°25'25
minimum elong	5582 May 19 18:20	0°♒00'01	6°44'09	minimum elong	5584 Oct 07 15:26	17°♑28'49	1°25'26
min. Earth dist.	5582 May 19 05:03	0°♒20'44	0.27715 AU		5584 Oct 17 18:38	0°♌	
	5582 May 19 18:20	30°♒♒			5584 Nov 11 00:27	0°♑	
morning rise	5582 May 24 10:46	27°♒10'57		evening rise	5584 Nov 13 15:19	3°♑14'35	
direct	5582 Jun 09 06:07	22°♒20'53		desc. node	5584 Dec 03 19:50	28°♑15'12	
greatest brilliancy	5582 Jun 18 21:24	24°♒04'09	-4.8m		5584 Dec 05 05:39	0°♑	
desc. node	5582 Jun 19 00:40	24°♒06'58			5584 Dec 29 10:32	0°♒	
	5582 Jun 30 17:48	0°♒			5585 Jan 22 15:32	0°♒	
morning max el	5582 Jul 28 10:22	22°♒54'58	45°55'10		5585 Feb 15 22:35	0°♑	
	5582 Aug 04 14:57	0°♑			5585 Mar 12 12:12	0°♒	
	5582 Sep 01 19:48	0°♏		asc. node	5585 Mar 26 20:54	17°♒13'43	
	5582 Sep 28 05:15	0°♐			5585 Apr 06 16:55	0°♒	
asc. node	5582 Oct 10 02:02	13°♐52'46			5585 May 03 06:12	0°♑	
	5582 Oct 23 15:48	0°♑		evening max el	5585 May 19 04:57	16°♑35'25	46°15'40
	5582 Nov 17 11:17	0°♌			5585 Jun 02 15:06	0°♏	
	5582 Dec 11 20:44	0°♑		greatest brilliancy	5585 Jun 26 19:30	15°♏52'46	-4.8m
	5583 Jan 04 23:52	0°♑		retrograde	5585 Jul 07 21:19	18°♏08'04	
morning set	5583 Jan 23 05:17	22°♑47'41		desc. node	5585 Jul 16 12:39	16°♏37'55	
	5583 Jan 28 23:14	0°♒		evening set	5585 Jul 23 00:22	13°♏40'52	
desc. node	5583 Jan 29 17:29	0°♒57'13		inferior conj	5585 Jul 29 08:07	9°♏53'13	-3°01'32
	5583 Feb 21 20:24	0°♒		minimum elong	5585 Jul 29 01:43	10°♏03'13	2°59'44
				min. Earth dist.	5585 Jul 28 20:54	10°♏10'47	0.28702 AU
superior conj	5583 Mar 05 07:42	14°♒25'45	-1°11'34	morning rise	5585 Aug 04 03:25	6°♏23'02	
minimum elong	5583 Mar 04 20:20	13°♒50'02	1°11'14	direct	5585 Aug 19 17:26	1°♏42'35	
max. Earth dist.	5583 Mar 05 11:55	14°♒39'01	1.71144 AU	greatest brilliancy	5585 Aug 29 17:52	3°♏30'29	-4.7m
	5583 Mar 17 16:44	0°♑			5585 Oct 05 23:37	0°♐	
	5583 Apr 10 13:56	0°♒		morning max el	5585 Oct 07 10:24	1°♐22'41	45°43'49
evening rise	5583 Apr 15 03:06	5°♒42'00			5585 Nov 04 01:07	0°♑	
	5583 May 04 14:01	0°♒		asc. node	5585 Nov 06 13:57	2°♑47'48	
asc. node	5583 May 22 18:44	22°♒34'51			5585 Nov 30 09:42	0°♌	
	5583 May 28 18:56	0°♑			5585 Dec 25 13:35	0°♑	

	5586 Jan 19 02:25	0°☾	greatest brilliancy	5588 Sep 05 09:51	23°☾17'05	-4.7m
	5586 Feb 12 07:08	0°≈	retrograde	5588 Sep 15 14:11	25°☾08'34	
desc. node	5586 Feb 26 05:16	17°≈22'29	evening set	5588 Oct 03 16:05	19°☾01'54	
	5586 Mar 08 07:28	0°☿	inferior conj	5588 Oct 07 01:05	16°☾56'25	-8°36'14
	5586 Apr 01 05:48	0°♀	minimum elong	5588 Oct 06 23:57	16°☾58'12	8°36'12
morning set	5586 Apr 09 23:31	10°♀57'34	min. Earth dist.	5588 Oct 07 08:11	16°☾45'17	0.29036 AU
	5586 Apr 25 04:08	0°♄	morning rise	5588 Oct 10 07:45	14°☾54'23	
	5586 May 19 04:20	0°♂	direct	5588 Oct 28 15:27	8°☾38'20	
			greatest brilliancy	5588 Nov 08 08:48	10°☾44'36	-4.8m
superior conj	5586 May 19 20:18	0°♂49'47 -1°05'07	asc. node	5588 Dec 04 01:44	27°☾43'25	
minimum elong	5586 May 20 07:13	1°♂23'47 1°04'46		5588 Dec 06 15:30	0°♂	
max. Earth dist.	5586 May 23 13:11	5°♂26'38 1.72118 AU	morning max el	5588 Dec 17 10:13	10°♂14'01	46°18'28
	5586 Jun 12 07:36	0°☾		5589 Jan 05 05:32	0°♂	
asc. node	5586 Jun 19 06:36	8°☾37'02		5589 Jan 31 11:58	0°☾	
evening rise	5586 Jun 27 17:29	19°☾03'49		5589 Feb 25 13:53	0°≈	
	5586 Jul 06 14:22	0°♂		5589 Mar 22 02:47	0°☿	
	5586 Jul 31 00:49	0°♊	desc. node	5589 Mar 25 17:12	4°☿26'01	
	5586 Aug 24 15:41	0°♌		5589 Apr 15 09:32	0°♀	
	5586 Sep 18 12:47	0°♍		5589 May 09 14:00	0°♄	
desc. node	5586 Oct 08 21:59	24°♍15'01		5589 Jun 02 18:40	0°♂	
	5586 Oct 13 19:01	0°♎	morning set	5589 Jun 22 01:11	23°♂50'37	
	5586 Nov 08 14:58	0°☾		5589 Jun 27 00:48	0°☾	
	5586 Dec 05 11:59	0°≈	asc. node	5589 Jul 16 18:22	24°☾20'45	
evening max el	5586 Dec 23 14:40	18°≈53'21 46°48'44		5589 Jul 21 08:28	0°♂	
	5587 Jan 04 06:49	0°☿				
asc. node	5587 Jan 29 23:21	18°☿22'27	superior conj	5589 Jul 29 15:14	10°♂12'05	0°30'16
greatest brilliancy	5587 Feb 01 23:40	19°☿36'21 -4.9m	minimum elong	5589 Jul 29 09:07	9°♂53'14	0°29'58
retrograde	5587 Feb 12 00:21	21°☿30'54	max. Earth dist.	5589 Jul 30 16:57	11°♂31'17	1.73311 AU
evening set	5587 Feb 27 23:08	16°☿30'07		5589 Aug 14 17:07	0°♊	
min. Earth dist.	5587 Mar 04 01:54	14°☿02'45 0.26838 AU	evening rise	5589 Sep 03 23:21	24°♊55'22	
inferior conj	5587 Mar 04 14:22	13°☿43'40 7°28'52		5589 Sep 08 02:27	0°♌	
minimum elong	5587 Mar 04 03:57	13°☿59'37 7°26'55		5589 Oct 02 12:54	0°♍	
morning rise	5587 Mar 08 08:55	11°☿27'21		5589 Oct 27 01:24	0°♎	
direct	5587 Mar 25 02:36	6°☿00'43	desc. node	5589 Nov 05 09:57	11°♎24'43	
greatest brilliancy	5587 Apr 03 12:13	7°☿41'46 -4.9m		5589 Nov 20 16:40	0°☾	
	5587 May 05 14:17	0°♀		5589 Dec 15 11:31	0°≈	
morning max el	5587 May 14 08:28	8°♀25'58 46°41'41		5590 Jan 09 12:41	0°☿	
desc. node	5587 May 21 14:59	15°♀49'38		5590 Feb 04 04:43	0°♀	
	5587 Jun 03 21:49	0°♄	asc. node	5590 Feb 26 11:06	24°♀39'47	
	5587 Jun 30 13:50	0°♂		5590 Mar 03 13:22	0°♄	
	5587 Jul 26 07:41	0°☾	evening max el	5590 Mar 06 08:17	2°♄51'16	47°04'50
	5587 Aug 20 14:22	0°♂		5590 Apr 07 11:24	0°♂	
asc. node	5587 Sep 11 16:04	26°♂31'48	greatest brilliancy	5590 Apr 15 17:26	4°♂01'00	-4.9m
	5587 Sep 14 12:56	0°♊	retrograde	5590 Apr 25 23:12	5°♂59'26	
	5587 Oct 09 04:15	0°♌	evening set	5590 May 12 20:01	0°♂27'47	
	5587 Nov 02 13:26	0°♍		5590 May 13 14:37	30°♄	
morning set	5587 Nov 09 17:27	8°♍51'57	inferior conj	5590 May 16 22:11	27°♄57'08	7°01'06
	5587 Nov 26 18:10	0°♎	minimum elong	5590 May 17 08:35	27°♄40'54	6°59'01
max. Earth dist.	5587 Dec 14 19:26	22°♎29'03 1.72010 AU	min. Earth dist.	5590 May 16 19:38	28°♄01'07	0.27687 AU
			morning rise	5590 May 21 21:29	24°♄56'35	
superior conj	5587 Dec 17 12:51	25°♎53'04 0°34'41	direct	5590 Jun 06 19:45	20°♄02'05	
minimum elong	5587 Dec 17 20:30	26°♎16'55 0°34'21	greatest brilliancy	5590 Jun 16 11:15	21°♄45'12	-4.8m
	5587 Dec 20 19:59	0°☾	desc. node	5590 Jun 18 02:43	22°♄21'26	
desc. node	5588 Jan 01 07:39	14°☾21'08		5590 Jul 01 18:43	0°♂	
	5588 Jan 13 19:51	0°≈	morning max el	5590 Jul 26 00:02	20°♂36'52	45°56'20
evening rise	5588 Jan 26 08:37	15°≈41'53		5590 Aug 04 11:01	0°☾	
	5588 Feb 06 18:26	0°☿		5590 Sep 01 10:51	0°♂	
	5588 Mar 01 16:54	0°♀		5590 Sep 27 18:16	0°♊	
	5588 Mar 25 17:30	0°♄	asc. node	5590 Oct 09 04:07	13°♊22'12	
	5588 Apr 18 23:31	0°♂		5590 Oct 23 03:48	0°♌	
asc. node	5588 Apr 23 08:52	5°♂23'09		5590 Nov 16 22:45	0°♍	
	5588 May 13 15:08	0°☾		5590 Dec 11 07:55	0°♎	
	5588 Jun 07 22:36	0°♂		5591 Jan 04 10:57	0°☾	
	5588 Jul 04 10:54	0°♊	morning set	5591 Jan 20 16:59	20°☾19'16	
evening max el	5588 Jul 28 21:05	25°♊17'03 45°35'22		5591 Jan 28 10:17	0°≈	
	5588 Aug 02 21:00	0°♌	desc. node	5591 Jan 28 19:22	0°≈28'27	
desc. node	5588 Aug 13 00:23	8°♌50'50		5591 Feb 21 07:27	0°☿	

superior conj	5591 Mar 02 18:16	11° H 53'21	-1°09'13	morning rise	5593 Aug 01 21:24	4° Ω 09'47	
minimum elong	5591 Mar 02 06:35	11° H 16'36	1°08'51		5593 Aug 12 13:06	30° R S	
max. Earth dist.	5591 Mar 02 13:54	11° H 39'36	1.71142 AU	direct	5593 Aug 17 09:23	29° S 32'03	
	5591 Mar 17 03:47	0° Y			5593 Aug 22 08:51	0° Ω	
	5591 Apr 10 00:58	0° B		greatest brilliancy	5593 Aug 27 09:13	1° Ω 19'59	-4.7m
evening rise	5591 Apr 12 14:03	3° B 11'23		morning max el	5593 Oct 05 02:52	29° Ω 13'43	45°43'18
	5591 May 04 01:05	0° Π			5593 Oct 05 22:11	0° M	
asc. node	5591 May 21 20:46	22° Π 06'36			5593 Nov 03 16:51	0° $\underline{\text{A}}$	
	5591 May 28 06:09	0° S		asc. node	5593 Nov 05 16:00	2° $\underline{\text{A}}$ 10'34	
	5591 Jun 21 17:57	0° Ω			5593 Nov 29 23:08	0° M	
	5591 Jul 16 14:48	0° M			5593 Dec 25 01:59	0° A	
	5591 Aug 11 01:17	0° $\underline{\text{A}}$			5594 Jan 18 14:17	0° S	
	5591 Sep 06 11:17	0° M			5594 Feb 11 18:41	0° \approx	
desc. node	5591 Sep 10 12:09	4° M 26'05		desc. node	5594 Feb 25 07:18	16° \approx 53'10	
	5591 Oct 04 23:05	0° A			5594 Mar 07 18:50	0° H	
evening max el	5591 Oct 09 09:19	4° A 18'05	45°51'48		5594 Mar 31 17:01	0° Y	
	5591 Nov 11 08:54	0° S		morning set	5594 Apr 07 10:15	8° Y 25'37	
greatest brilliancy	5591 Nov 18 02:54	2° S 51'18	-4.8m		5594 Apr 24 15:16	0° B	
retrograde	5591 Nov 27 08:51	4° S 25'51					
evening set	5591 Dec 12 16:01	29° A 56'05		superior conj	5594 May 17 09:19	28° B 26'14	-1°07'32
	5591 Dec 12 13:09	30° R A		minimum elong	5594 May 17 20:09	29° B 00'01	1°07'13
inferior conj	5591 Dec 18 06:16	26° A 37'59	-3°31'51		5594 May 18 15:23	0° Π	
minimum elong	5591 Dec 18 13:46	26° A 26'28	3°29'39	max. Earth dist.	5594 May 21 02:40	3° Π 04'43	1.72067 AU
min. Earth dist.	5591 Dec 19 02:06	26° A 07'31	0.27392 AU		5594 Jun 11 18:37	0° S	
morning rise	5591 Dec 24 10:39	22° A 58'30		asc. node	5594 Jun 18 08:32	8° S 09'00	
asc. node	5592 Jan 01 13:29	19° A 34'14		evening rise	5594 Jun 25 09:08	16° S 50'01	
direct	5592 Jan 08 03:55	18° A 40'29			5594 Jul 06 01:23	0° Ω	
greatest brilliancy	5592 Jan 19 05:42	20° A 57'51	-4.9m		5594 Jul 30 11:57	0° M	
	5592 Feb 03 14:20	0° S			5594 Aug 24 03:07	0° $\underline{\text{A}}$	
morning max el	5592 Feb 27 18:28	21° S 45'27	46°56'55		5594 Sep 18 00:49	0° M	
	5592 Mar 06 17:06	0° \approx		desc. node	5594 Oct 08 00:04	23° M 43'26	
	5592 Apr 02 16:04	0° H			5594 Oct 13 08:03	0° A	
desc. node	5592 Apr 22 05:13	22° H 53'29			5594 Nov 08 05:47	0° S	
	5592 Apr 28 04:40	0° Y			5594 Dec 05 06:29	0° \approx	
	5592 May 23 03:21	0° B		evening max el	5594 Dec 21 05:30	16° \approx 32'40	46°47'01
	5592 Jun 16 20:21	0° Π			5595 Jan 04 13:47	0° H	
	5592 Jul 11 11:16	0° S		asc. node	5595 Jan 29 01:21	16° H 34'31	
	5592 Aug 05 00:57	0° Ω		greatest brilliancy	5595 Jan 30 12:05	17° H 07'56	-4.9m
asc. node	5592 Aug 13 06:12	10° Ω 03'15		retrograde	5595 Feb 09 13:23	19° H 02'27	
morning set	5592 Aug 29 22:19	0° M 29'10		evening set	5595 Feb 25 07:39	14° H 08'07	
	5592 Aug 29 12:49	0° M		min. Earth dist.	5595 Mar 01 14:26	11° H 34'50	0.26815 AU
	5592 Sep 22 22:15	0° $\underline{\text{A}}$		inferior conj	5595 Mar 02 02:53	11° H 15'45	7°14'29
max. Earth dist.	5592 Oct 03 11:42	13° $\underline{\text{A}}$ 01'35	1.73207 AU	minimum elong	5595 Mar 01 16:13	11° H 32'06	7°12'23
				morning rise	5595 Mar 06 00:59	8° H 54'19	
superior conj	5592 Oct 05 09:57	15° $\underline{\text{A}}$ 24'20	1°25'14	direct	5595 Mar 22 15:45	3° H 33'20	
minimum elong	5592 Oct 05 08:32	15° $\underline{\text{A}}$ 19'58	1°25'14	greatest brilliancy	5595 Apr 01 00:51	5° H 14'10	-4.9m
	5592 Oct 17 05:29	0° M			5595 May 05 17:15	0° Y	
	5592 Nov 10 11:25	0° A		morning max el	5595 May 11 21:45	6° Y 01'45	46°42'55
evening rise	5592 Nov 11 07:13	1° A 01'16		desc. node	5595 May 20 17:01	15° Y 01'28	
desc. node	5592 Dec 02 21:47	27° A 46'41			5595 Jun 03 15:21	0° B	
	5592 Dec 04 16:50	0° S			5595 Jun 30 04:15	0° Π	
	5592 Dec 28 21:59	0° \approx			5595 Jul 25 20:32	0° S	
	5593 Jan 22 03:22	0° H			5595 Aug 20 02:18	0° Ω	
	5593 Feb 15 10:54	0° Y		asc. node	5595 Sep 10 18:13	26° Ω 03'47	
	5593 Mar 12 01:19	0° B			5595 Sep 14 00:18	0° M	
asc. node	5593 Mar 25 22:58	16° B 38'51			5595 Oct 08 15:19	0° $\underline{\text{A}}$	
	5593 Apr 06 07:29	0° Π			5595 Nov 02 00:22	0° M	
	5593 May 03 00:08	0° S		morning set	5595 Nov 07 10:03	6° M 40'59	
evening max el	5593 May 16 20:37	14° S 20'55	46°17'50		5595 Nov 26 05:06	0° A	
	5593 Jun 02 22:21	0° Ω		max. Earth dist.	5595 Dec 12 06:48	20° A 00'43	1.72057 AU
greatest brilliancy	5593 Jun 24 11:11	13° Ω 40'36	-4.8m				
retrograde	5593 Jul 05 14:11	15° Ω 57'03		superior conj	5595 Dec 15 02:56	23° A 33'05	0°37'57
desc. node	5593 Jul 15 14:29	13° Ω 55'47		minimum elong	5595 Dec 15 11:06	23° A 58'32	0°37'36
evening set	5593 Jul 20 15:45	11° Ω 30'43			5595 Dec 20 06:59	0° S	
min. Earth dist.	5593 Jul 26 12:46	8° Ω 00'04	0.28667 AU	desc. node	5595 Dec 31 09:37	13° S 52'44	
inferior conj	5593 Jul 27 00:09	7° Ω 42'15	-2°42'23		5596 Jan 13 06:57	0° \approx	
minimum elong	5593 Jul 26 18:22	7° Ω 51'18	2°40'45	evening rise	5596 Jan 23 20:30	13° \approx 13'44	

	5596 Feb 06 05:39	0° H			5598 Sep 01 01:39	0° Ω		
	5596 Mar 01 04:16	0° Υ			5598 Sep 27 07:08	0° M		
	5596 Mar 25 05:05	0° B		asc. node	5598 Oct 08 06:05	12° M 51'35		
	5596 Apr 18 11:26	0° Π			5598 Oct 22 15:41	0° Δ		
asc. node	5596 Apr 22 10:53	4° Π 52'35			5598 Nov 16 10:06	0° M		
	5596 May 13 03:40	0° G			5598 Dec 10 18:59	0° J		
	5596 Jun 07 12:21	0° Ω			5599 Jan 03 21:52	0° Z		
	5596 Jul 04 03:20	0° M		morning set	5599 Jan 18 05:06	17° Z 52'44		
evening max el	5596 Jul 26 12:14	23° M 04'05 45°35'55		desc. node	5599 Jan 27 21:27	0° \approx 00'54		
	5596 Aug 02 22:14	0° Δ			5599 Jan 27 21:10	0° \approx		
desc. node	5596 Aug 12 02:30	7° Δ 49'31			5599 Feb 20 18:21	0° H		
greatest brilliancy	5596 Sep 03 01:06	21° Δ 06'45 -4.7m						
retrograde	5596 Sep 13 05:31	22° Δ 58'32		superior conj	5599 Feb 28 04:49	9° H 21'16 -1°06'42		
evening set	5596 Oct 01 06:43	16° Δ 53'58		minimum elong	5599 Feb 27 16:55	8° H 43'52 1°06'19		
inferior conj	5596 Oct 04 17:13	14° Δ 46'04 -8°34'31		max. Earth dist.	5599 Feb 27 18:39	8° H 49'17 1.71151 AU		
minimum elong	5596 Oct 04 15:19	14° Δ 49'04 8°34'28			5599 Mar 16 14:42	0° Υ		
min. Earth dist.	5596 Oct 04 23:24	14° Δ 36'22 0.29058 AU			5599 Apr 09 11:54	0° B		
morning rise	5596 Oct 07 23:50	12° Δ 43'54		evening rise	5599 Apr 10 00:43	0° B 40'09		
direct	5596 Oct 26 07:32	6° Δ 27'56			5599 May 03 12:05	0° Π		
greatest brilliancy	5596 Nov 06 00:13	8° Δ 32'56 -4.8m		asc. node	5599 May 20 22:40	21° Π 38'08		
asc. node	5596 Dec 03 03:40	26° Δ 45'07			5599 May 27 17:18	0° G		
	5596 Dec 06 17:56	0° M			5599 Jun 21 05:24	0° Ω		
morning max el	5596 Dec 15 00:05	7° M 55'01 46°16'46			5599 Jul 16 02:50	0° M		
	5597 Jan 04 22:27	0° J			5599 Aug 10 14:25	0° Δ		
	5597 Jan 31 02:06	0° Z			5599 Sep 06 02:43	0° M		
	5597 Feb 25 02:45	0° \approx		desc. node	5599 Sep 09 14:14	3° M 48'15		
	5597 Mar 21 14:57	0° H			5599 Oct 04 20:49	0° J		
desc. node	5597 Mar 24 19:19	3° H 55'20		evening max el	5599 Oct 06 23:12	2° J 01'22 45°50'24		
	5597 Apr 14 21:14	0° Υ			5599 Nov 14 03:50	0° Z		
	5597 May 09 01:21	0° B		greatest brilliancy	5599 Nov 15 15:58	0° Z 31'37 -4.8m		
	5597 Jun 02 05:45	0° Π		retrograde	5599 Nov 24 22:41	2° Z 06'39		
morning set	5597 Jun 19 16:43	21° Π 36'33			5599 Dec 05 05:48	30° R J		
	5597 Jun 26 11:42	0° G		evening set	5599 Dec 10 08:08	27° J 32'42		
asc. node	5597 Jul 15 20:20	23° G 53'30		inferior conj	5599 Dec 15 20:01	24° J 17'48 -3°52'20		
	5597 Jul 20 19:16	0° Ω		minimum elong	5599 Dec 16 04:05	24° J 05'24 3°50'01		
				min. Earth dist.	5599 Dec 16 16:25	23° J 46'29 0.27453 AU		
superior conj	5597 Jul 27 08:14	8° Ω 03'27 0°27'10		morning rise	5599 Dec 21 23:14	20° J 40'08		
minimum elong	5597 Jul 27 02:39	7° Ω 46'16 0°26'53		asc. node	5599 Dec 31 15:29	16° J 51'47		
max. Earth dist.	5597 Jul 28 11:41	9° Ω 27'59 1.73287 AU		direct	5600 Jan 05 18:33	16° J 19'17		
	5597 Aug 14 03:54	0° M		greatest brilliancy	5600 Jan 16 20:50	18° J 37'38 -4.9m		
evening rise	5597 Sep 01 17:30	22° M 50'22			5600 Feb 04 05:54	0° Z		
	5597 Sep 07 13:17	0° Δ		morning max el	5600 Feb 25 09:44	19° Z 26'24 46°56'20		
	5597 Oct 01 23:56	0° M			5600 Mar 06 12:32	0° \approx		
	5597 Oct 26 12:44	0° J			5600 Apr 02 07:11	0° H		
desc. node	5597 Nov 04 11:57	10° J 55'44		desc. node	5600 Apr 21 07:11	22° H 18'59		
	5597 Nov 20 04:30	0° Z			5600 Apr 27 17:56	0° Υ		
	5597 Dec 15 00:07	0° \approx			5600 May 22 15:36	0° B		
	5598 Jan 09 02:30	0° H			5600 Jun 16 07:57	0° Π		
	5598 Feb 03 20:47	0° Υ			5600 Jul 10 22:24	0° G		
asc. node	5598 Feb 25 13:12	23° Υ 52'13			5600 Aug 04 11:47	0° Ω		
	5598 Mar 03 11:11	0° B		asc. node	5600 Aug 12 08:19	9° Ω 36'53		
evening max el	5598 Mar 03 21:07	0° B 25'16 47°05'29		morning set	5600 Aug 27 15:42	28° Ω 22'34		
	5598 Apr 09 10:33	0° Π			5600 Aug 28 23:27	0° M		
greatest brilliancy	5598 Apr 13 09:12	1° Π 41'16 -4.9m			5600 Sep 22 08:47	0° Δ		
retrograde	5598 Apr 23 13:09	3° Π 38'35		max. Earth dist.	5600 Oct 01 09:00	11° Δ 06'35 1.73233 AU		
	5598 May 07 01:01	30° R B						
evening set	5598 May 10 13:30	28° B 02'25		superior conj	5600 Oct 03 03:36	13° Δ 18'02 1°24'55		
inferior conj	5598 May 14 12:20	25° B 36'54 7°15'07		minimum elong	5600 Oct 03 01:29	13° Δ 11'32 1°24'55		
minimum elong	5598 May 14 22:34	25° B 20'58 7°13'12			5600 Oct 16 16:04	0° M		
min. Earth dist.	5598 May 14 10:02	25° B 40'29 0.27659 AU		evening rise	5600 Nov 08 23:07	28° M 48'47		
morning rise	5598 May 19 07:51	22° B 41'41			5600 Nov 09 22:08	0° J		
direct	5598 Jun 04 08:49	17° B 42'11		desc. node	5600 Dec 01 23:45	27° J 18'57		
greatest brilliancy	5598 Jun 14 01:08	19° B 25'45 -4.8m			5600 Dec 04 03:46	0° Z		
desc. node	5598 Jun 17 04:39	20° B 39'11			5600 Dec 28 09:10	0° \approx		
	5598 Jul 02 13:13	0° Π			5601 Jan 21 14:51	0° H		
morning max el	5598 Jul 23 13:47	18° Π 18'49 45°57'37			5601 Feb 14 22:52	0° Υ		
	5598 Aug 04 06:28	0° G			5601 Mar 11 14:05	0° B		

asc. node	5601 Mar 25 00:58	16° ♄ 04'51	
	5601 Apr 05 21:47	0° ♄	
	5601 May 02 18:05	0° ♄	
evening max el	5601 May 14 12:54	12° ♄ 08'49	46°19'45
	5601 Jun 03 07:55	0° ♄	
greatest brilliancy	5601 Jun 22 03:07	11° ♄ 29'13	-4.8m
retrograde	5601 Jul 03 06:56	13° ♄ 46'05	
desc. node	5601 Jul 14 16:38	11° ♄ 09'15	
evening set	5601 Jul 18 07:12	9° ♄ 20'45	
min. Earth dist.	5601 Jul 24 04:24	5° ♄ 49'38	0.28631 AU
inferior conj	5601 Jul 24 16:02	5° ♄ 31'28	-2°22'50
minimum elong	5601 Jul 24 10:53	5° ♄ 39'31	2°21'22
morning rise	5601 Jul 30 15:07	1° ♄ 56'50	
	5601 Aug 03 12:08	30° ♄	
direct	5601 Aug 15 01:30	27° ♄ 21'57	
greatest brilliancy	5601 Aug 24 23:55	29° ♄ 09'10	-4.7m
	5601 Aug 27 06:00	0° ♄	
morning max el	5601 Oct 02 18:56	27° ♄ 04'44	45°42'48
	5601 Oct 05 19:31	0° ♄	
	5601 Nov 03 07:59	0° ♄	
asc. node	5601 Nov 04 17:57	1° ♄ 34'28	
	5601 Nov 29 12:07	0° ♄	
	5601 Dec 24 13:59	0° ♄	