

superior conj	10101 Feb 24 06:45	9° H 10'38	-0°11'07	minimum elong	10103 Jul 24 19:03	9° Ω 15'51	3°29'47
minimum elong	10101 Feb 24 04:07	9° H 02'27	0°10'48	min. Earth dist.	10103 Jul 24 09:17	9° Ω 30'49	0.27259 AU
behind sun begin	10101 Feb 23 09:43	8° H 05'14		morning rise	10103 Jul 30 16:08	5° Ω 49'43	
behind sun end	10101 Feb 24 22:32	9° H 59'41		desc. node	10103 Aug 07 14:36	2° Ω 33'22	
	10101 Mar 13 00:10	0° Y		direct	10103 Aug 14 06:30	1° Ω 39'22	
evening rise	10101 Apr 04 14:32	28° Y 13'36		greatest brilliancy	10103 Aug 24 03:09	3° Ω 27'33	-4.8m
	10101 Apr 06 00:34	0° B			10103 Sep 30 01:49	0° M	
	10101 Apr 29 23:46	0° II		morning max el	10103 Oct 02 15:55	2° M 28'38	46°02'45
	10101 May 23 23:54	0° E			10103 Oct 29 05:38	0° E	
asc. node	10101 Jun 12 13:05	24° E 17'58			10103 Nov 24 22:58	0° M	
	10101 Jun 17 03:40	0° Ω		asc. node	10103 Nov 28 13:02	4° M 08'15	
	10101 Jul 11 14:19	0° M			10103 Dec 20 14:05	0° A	
	10101 Aug 05 12:34	0° E			10104 Jan 14 13:53	0° B	
	10101 Aug 31 07:49	0° M			10104 Feb 08 04:04	0° \approx	
	10101 Sep 28 00:12	0° A			10104 Mar 03 11:55	0° H	
desc. node	10101 Oct 02 10:07	4° A 26'39		desc. node	10104 Mar 19 05:49	19° H 33'00	
evening max el	10101 Oct 06 02:44	8° A 03'49	45°50'41		10104 Mar 27 15:06	0° Y	
	10101 Nov 01 10:18	0° B		morning set	10104 Mar 30 04:32	3° Y 11'37	
greatest brilliancy	10101 Nov 14 05:34	6° B 30'53	-4.7m		10104 Apr 20 14:43	0° B	
retrograde	10101 Nov 24 02:36	8° B 17'30		max. Earth dist.	10104 May 08 16:10	22° B 40'24	1.71310 AU
evening set	10101 Dec 11 18:26	2° B 24'49					
inferior conj	10101 Dec 15 13:41	0° B 04'05	-7°41'55	superior conj	10104 May 09 16:15	23° B 56'03	-1°26'55
minimum elong	10101 Dec 15 22:07	29° A 50'51	7°40'18	minimum elong	10104 May 09 12:51	23° B 45'22	1°27'13
	10101 Dec 15 16:17	30° R A			10104 May 14 12:04	0° II	
min. Earth dist.	10101 Dec 16 02:16	29° A 44'20	0.28942 AU		10104 Jun 07 09:00	0° E	
morning rise	10101 Dec 20 01:35	27° A 18'04		evening rise	10104 Jun 19 04:00	14° E 47'38	
direct	10102 Jan 06 00:17	21° A 46'39			10104 Jul 01 07:35	0° Ω	
greatest brilliancy	10102 Jan 16 23:41	23° A 58'33	-4.8m	asc. node	10104 Jul 10 01:01	10° Ω 53'35	
asc. node	10102 Jan 23 10:11	26° A 59'42			10104 Jul 25 09:37	0° M	
	10102 Jan 28 09:19	0° B			10104 Aug 18 16:44	0° E	
morning max el	10102 Feb 24 15:49	23° B 11'09	46°11'27		10104 Sep 12 07:16	0° M	
	10102 Mar 03 09:27	0° \approx			10104 Oct 07 09:26	0° A	
	10102 Mar 30 19:14	0° H		desc. node	10104 Oct 29 20:57	26° A 07'24	
	10102 Apr 25 10:27	0° Y			10104 Nov 02 06:44	0° B	
desc. node	10102 May 15 05:45	23° Y 53'01			10104 Nov 29 15:13	0° \approx	
	10102 May 20 06:11	0° B		evening max el	10104 Dec 16 13:34	17° \approx 05'16	45°53'30
	10102 Jun 13 15:46	0° II			10104 Dec 30 21:51	0° H	
	10102 Jul 07 20:35	0° E		greatest brilliancy	10105 Jan 24 17:48	15° H 32'01	-4.8m
	10102 Aug 01 00:05	0° Ω		retrograde	10105 Feb 03 12:30	17° H 16'46	
	10102 Aug 25 04:04	0° M		evening set	10105 Feb 18 02:39	13° H 07'30	
morning set	10102 Aug 29 09:19	5° M 13'52		asc. node	10105 Feb 19 21:13	12° H 08'08	
asc. node	10102 Sep 05 00:27	13° M 27'08		inferior conj	10105 Feb 24 10:34	9° H 22'29	1°09'07
	10102 Sep 18 09:04	0° E		minimum elong	10105 Feb 24 07:56	9° H 26'35	1°08'29
				min. Earth dist.	10105 Feb 24 18:30	9° H 10'09	0.27637 AU
superior conj	10102 Oct 06 06:20	22° E 07'56	1°06'24	morning rise	10105 Mar 02 12:43	5° H 44'28	
minimum elong	10102 Oct 05 20:44	21° E 38'15	1°06'14	direct	10105 Mar 17 11:29	1° H 21'14	
max. Earth dist.	10102 Oct 07 18:12	23° E 58'51	1.72974 AU	greatest brilliancy	10105 Mar 28 00:35	3° H 26'16	-4.9m
	10102 Oct 12 15:03	0° M			10105 May 02 18:51	0° Y	
	10102 Nov 05 22:25	0° A		morning max el	10105 May 06 20:54	4° Y 03'00	46°53'12
evening rise	10102 Nov 11 22:06	7° A 22'28			10105 May 31 02:28	0° B	
	10102 Nov 30 07:57	0° B		desc. node	10105 Jun 11 17:55	13° B 15'38	
	10102 Dec 24 20:19	0° \approx			10105 Jun 26 01:54	0° II	
desc. node	10102 Dec 25 17:53	1° \approx 05'50			10105 Jul 21 04:05	0° E	
	10103 Jan 18 11:34	0° H			10105 Aug 14 21:23	0° Ω	
	10103 Feb 12 05:50	0° Y			10105 Sep 08 11:08	0° M	
	10103 Mar 09 04:57	0° B		asc. node	10105 Oct 02 13:32	29° M 30'51	
	10103 Apr 03 15:24	0° II			10105 Oct 02 23:02	0° E	
asc. node	10103 Apr 17 16:36	16° II 05'32			10105 Oct 27 09:14	0° M	
	10103 Apr 30 06:16	0° E		morning set	10105 Nov 07 01:32	13° M 08'43	
evening max el	10103 May 14 04:46	14° E 36'05	46°54'55		10105 Nov 20 17:51	0° A	
	10103 May 30 15:06	0° Ω		max. Earth dist.	10105 Dec 13 04:45	27° A 41'52	1.73192 AU
greatest brilliancy	10103 Jun 23 07:07	15° Ω 20'31	-4.9m				
retrograde	10103 Jul 03 15:38	17° Ω 21'21		superior conj	10105 Dec 13 15:38	28° A 15'26	1°17'16
evening set	10103 Jul 18 22:20	12° Ω 45'09		minimum elong	10105 Dec 13 23:16	28° A 39'00	1°17'32
inferior conj	10103 Jul 24 11:21	9° Ω 27'39	3°32'28		10105 Dec 15 01:32	0° B	

	10106 Jan 08 08:58	0°≈		desc. node	10108 Jul 09 05:29	8°Ⅱ32'52	
evening rise	10106 Jan 20 04:27	14°≈34'33		morning max el	10108 Jul 18 11:58	17°Ⅱ29'35	46°48'56
desc. node	10106 Jan 22 06:04	17°≈07'40			10108 Jul 30 14:00	0°☿	
	10106 Feb 01 16:16	0°✕			10108 Aug 26 15:14	0°♈	
	10106 Feb 25 23:02	0°♑			10108 Sep 21 11:26	0°♐	
	10106 Mar 22 05:18	0°♉			10108 Oct 16 18:20	0°♊	
	10106 Apr 15 12:44	0°Ⅱ		asc. node	10108 Oct 30 02:23	16°♊00'14	
	10106 May 10 01:04	0°☿			10108 Nov 10 16:40	0°♈	
asc. node	10106 May 15 03:32	6°☿11'04			10108 Dec 05 08:28	0°♏	
	10106 Jun 04 00:48	0°♈			10108 Dec 29 19:23	0°♐	
	10106 Jun 30 00:13	0°♐		morning set	10109 Jan 14 16:48	19°♐35'22	
evening max el	10106 Jul 24 23:21	26°♐36'37	46°27'24		10109 Jan 23 02:58	0°≈	
	10106 Jul 28 10:01	0°♊			10109 Feb 16 08:03	0°✕	
greatest brilliancy	10106 Sep 01 20:36	26°♊16'28	-4.8m	desc. node	10109 Feb 18 18:49	3°✕02'28	
desc. node	10106 Sep 04 01:30	27°♊03'09		max. Earth dist.	10109 Feb 19 00:24	3°✕19'49	1.72366 AU
retrograde	10106 Sep 12 21:19	28°♊30'23					
evening set	10106 Sep 29 01:06	23°♊28'55		superior conj	10109 Feb 21 20:41	6°✕51'59	-0°07'30
min. Earth dist.	10106 Oct 03 12:45	20°♊45'53	0.28570 AU	minimum elong	10109 Feb 21 18:56	6°✕46'32	0°07'12
inferior conj	10106 Oct 04 07:27	20°♊16'38	-6°34'44	behind sun begin	10109 Feb 20 20:50	5°✕37'50	
minimum elong	10106 Oct 03 21:20	20°♊32'27	6°32'37	behind sun end	10109 Feb 22 17:02	7°✕55'14	
morning rise	10106 Oct 08 17:58	17°♊33'49			10109 Mar 12 10:44	0°♑	
direct	10106 Oct 25 14:38	12°♊11'36		evening rise	10109 Apr 02 03:28	25°♑50'42	
greatest brilliancy	10106 Nov 04 06:49	13°♊52'57	-4.7m		10109 Apr 05 11:13	0°♉	
	10106 Nov 30 00:21	0°♈			10109 Apr 29 10:34	0°Ⅱ	
morning max el	10106 Dec 13 07:47	12°♈01'29	45°41'44		10109 May 23 10:53	0°☿	
asc. node	10106 Dec 26 00:50	24°♈45'48		asc. node	10109 Jun 11 14:57	23°☿49'02	
	10106 Dec 31 00:31	0°♏			10109 Jun 16 14:58	0°♈	
	10107 Jan 27 01:09	0°♐			10109 Jul 11 02:07	0°♐	
	10107 Feb 21 15:06	0°≈			10109 Aug 05 01:17	0°♊	
	10107 Mar 18 11:37	0°✕			10109 Aug 30 22:24	0°♈	
	10107 Apr 11 21:53	0°♑			10109 Sep 27 19:39	0°♏	
desc. node	10107 Apr 16 18:51	6°♑01'55		desc. node	10109 Oct 01 12:10	3°♏40'32	
	10107 May 06 01:32	0°♉		evening max el	10109 Oct 03 18:33	5°♏53'14	45°51'29
	10107 May 30 01:09	0°Ⅱ			10109 Nov 02 14:21	0°♐	
morning set	10107 Jun 15 00:55	20°Ⅱ03'17		greatest brilliancy	10109 Nov 11 19:32	4°♐19'22	-4.7m
	10107 Jun 22 23:12	0°☿		retrograde	10109 Nov 21 18:49	6°♐07'37	
	10107 Jul 16 21:54	0°♈		evening set	10109 Dec 09 12:41	0°♐10'48	
					10109 Dec 09 19:52	30°♐♏	
superior conj	10107 Jul 24 16:19	9°♈42'41	-0°33'02	inferior conj	10109 Dec 13 05:35	27°♏53'26	-7°50'49
minimum elong	10107 Jul 25 00:03	10°♈06'48	0°33'02	minimum elong	10109 Dec 13 13:34	27°♏40'55	7°49'21
max. Earth dist.	10107 Jul 27 14:42	13°♈22'25	1.71860 AU	min. Earth dist.	10109 Dec 13 16:50	27°♏35'48	0.28972 AU
asc. node	10107 Aug 07 13:32	27°♈02'09		morning rise	10109 Dec 17 14:20	25°♏12'18	
	10107 Aug 09 22:37	0°♐		direct	10110 Jan 03 16:56	19°♏35'59	
evening rise	10107 Sep 01 12:18	28°♐02'57		greatest brilliancy	10110 Jan 14 14:37	21°♏46'43	-4.8m
	10107 Sep 03 02:04	0°♊		asc. node	10110 Jan 22 12:14	25°♏37'04	
	10107 Sep 27 08:52	0°♈			10110 Jan 29 05:48	0°♐	
	10107 Oct 21 20:21	0°♏		morning max el	10110 Feb 22 08:09	20°♐59'43	46°09'52
	10107 Nov 15 14:32	0°♐			10110 Mar 03 04:34	0°≈	
desc. node	10107 Nov 27 08:05	14°♐03'54			10110 Mar 30 09:54	0°✕	
	10107 Dec 10 17:43	0°≈			10110 Apr 24 23:19	0°♑	
	10108 Jan 05 09:03	0°✕		desc. node	10110 May 14 07:32	23°♑21'35	
	10108 Jan 31 20:24	0°♑			10110 May 19 18:09	0°♉	
evening max el	10108 Feb 27 15:52	28°♑20'13	46°31'34		10110 Jun 13 03:12	0°Ⅱ	
	10108 Feb 29 08:22	0°♉			10110 Jul 07 07:39	0°☿	
asc. node	10108 Mar 19 08:00	16°♉59'21			10110 Jul 31 10:53	0°♈	
greatest brilliancy	10108 Apr 08 02:42	28°♉46'23	-4.9m		10110 Aug 24 14:42	0°♐	
	10108 Apr 12 12:29	0°Ⅱ		morning set	10110 Aug 27 00:29	2°♐59'11	
retrograde	10108 Apr 17 18:12	0°Ⅱ32'21		asc. node	10110 Sep 04 02:26	13°♐00'25	
	10108 Apr 22 21:17	30°♐♏			10110 Sep 17 19:35	0°♊	
evening set	10108 May 05 15:17	24°♏27'05					
inferior conj	10108 May 08 10:45	22°♏44'16	9°06'11	superior conj	10110 Oct 03 22:50	19°♊58'01	1°04'12
minimum elong	10108 May 08 07:00	22°♏50'03	9°05'39	minimum elong	10110 Oct 03 13:07	19°♊27'59	1°04'00
min. Earth dist.	10108 May 08 11:18	22°♏43'25	0.27191 AU	max. Earth dist.	10110 Oct 05 14:11	21°♊59'44	1.72952 AU
morning rise	10108 May 10 22:40	21°♏12'34			10110 Oct 12 01:33	0°♈	
direct	10108 May 29 02:47	14°♏53'42			10110 Nov 05 08:58	0°♏	
greatest brilliancy	10108 Jun 07 21:25	16°♏41'48	-4.9m	evening rise	10110 Nov 09 15:04	5°♏14'25	
	10108 Jun 29 11:01	0°Ⅱ			10110 Nov 29 18:38	0°♐	

	10110 Dec 24 07:15	0°≈		10113 May 30 18:53	0°♄	
desc. node	10110 Dec 24 19:45	0°≈38'06		desc. node	10113 Jun 10 19:54	12°♄37'47
	10111 Jan 17 22:57	0°♁			10113 Jun 25 15:49	0°♂
	10111 Feb 11 17:51	0°♂			10113 Jul 20 16:43	0°♄
	10111 Mar 08 17:58	0°♄			10113 Aug 14 09:16	0°♂
	10111 Apr 03 06:09	0°♂			10113 Sep 07 22:29	0°♁
asc. node	10111 Apr 16 18:32	15°♂25'11		asc. node	10113 Oct 01 15:25	29°♁02'54
	10111 Apr 30 00:51	0°♄			10113 Oct 02 10:01	0°♂
evening max el	10111 May 11 19:45	12°♄16'56 46°55'06			10113 Oct 26 19:59	0°♂
	10111 May 31 00:59	0°♂		morning set	10113 Nov 04 18:41	11°♂00'47
greatest brilliancy	10111 Jun 20 21:52	12°♂59'41 -4.9m			10113 Nov 20 04:30	0°♁
retrograde	10111 Jul 01 05:46	14°♂59'30				
evening set	10111 Jul 16 14:35	10°♂20'22		superior conj	10113 Dec 11 08:54	26°♁07'48 1°18'39
inferior conj	10111 Jul 22 00:50	7°♂06'23 3°54'04		minimum elong	10113 Dec 11 16:04	26°♁29'53 1°18'57
minimum elong	10111 Jul 22 09:10	6°♂53'35 3°51'15		max. Earth dist.	10113 Dec 10 21:42	25°♁33'14 1.73208 AU
min. Earth dist.	10111 Jul 21 23:20	7°♂08'41 0.27234 AU			10113 Dec 14 12:12	0°♄
morning rise	10111 Jul 28 04:11	3°♂30'22			10114 Jan 07 19:45	0°≈
	10111 Aug 06 00:03	30°♁		evening rise	10114 Jan 17 20:07	12°≈21'20
desc. node	10111 Aug 06 16:36	29°♄50'48		desc. node	10114 Jan 21 08:06	16°≈40'25
direct	10111 Aug 11 20:19	29°♄18'40			10114 Feb 01 03:14	0°♁
	10111 Aug 17 20:09	0°♂			10114 Feb 25 10:14	0°♂
greatest brilliancy	10111 Aug 21 15:58	1°♂06'13 -4.8m			10114 Mar 21 16:49	0°♄
	10111 Sep 30 01:12	0°♁			10114 Apr 15 00:42	0°♂
morning max el	10111 Sep 30 06:01	0°♁11'38 46°04'00			10114 May 09 13:45	0°♄
	10111 Oct 28 21:35	0°♂		asc. node	10114 May 14 05:26	5°♄37'57
	10111 Nov 24 12:20	0°♂			10114 Jun 03 14:43	0°♂
asc. node	10111 Nov 27 14:52	3°♂35'33			10114 Jun 29 16:40	0°♁
	10111 Dec 20 02:12	0°♁		evening max el	10114 Jul 22 13:19	24°♁16'47 46°28'54
	10112 Jan 14 01:20	0°♄			10114 Jul 28 10:01	0°♂
	10112 Feb 07 15:09	0°≈		greatest brilliancy	10114 Aug 30 12:28	24°♂02'49 -4.8m
	10112 Mar 02 22:48	0°♁		desc. node	10114 Sep 03 03:32	25°♂15'00
desc. node	10112 Mar 18 07:43	19°♁05'09		retrograde	10114 Sep 10 12:54	26°♂17'11
	10112 Mar 27 01:55	0°♂		evening set	10114 Sep 26 13:44	21°♂20'02
morning set	10112 Mar 27 16:18	0°♂44'51		min. Earth dist.	10114 Oct 01 04:15	18°♂33'21 0.28520 AU
	10112 Apr 20 01:31	0°♄		inferior conj	10114 Oct 01 23:02	18°♂04'02 -6°20'59
max. Earth dist.	10112 May 05 20:22	19°♄48'54 1.71322 AU		minimum elong	10114 Oct 01 12:50	18°♂19'57 6°18'46
				morning rise	10114 Oct 06 12:18	15°♂17'22
superior conj	10112 May 07 03:32	21°♄26'46 -1°26'16		direct	10114 Oct 23 05:10	9°♂59'34
minimum elong	10112 May 06 23:06	21°♄12'52 1°26'34		greatest brilliancy	10114 Nov 01 22:10	11°♂41'24 -4.7m
	10112 May 13 22:52	0°♂			10114 Nov 30 05:34	0°♂
	10112 Jun 06 19:50	0°♄		morning max el	10114 Dec 10 22:13	9°♂47'10 45°41'38
evening rise	10112 Jun 16 15:06	12°♄17'58		asc. node	10114 Dec 25 02:56	24°♂03'49
	10112 Jun 30 18:27	0°♂			10114 Dec 30 17:39	0°♁
asc. node	10112 Jul 09 03:01	10°♂25'50			10115 Jan 26 15:05	0°♄
	10112 Jul 24 20:35	0°♁			10115 Feb 21 03:42	0°≈
	10112 Aug 18 03:55	0°♂			10115 Mar 17 23:33	0°♁
	10112 Sep 11 18:54	0°♂			10115 Apr 11 09:26	0°♂
	10112 Oct 06 21:54	0°♁		desc. node	10115 Apr 15 20:43	5°♂32'07
desc. node	10112 Oct 28 22:46	25°♁33'16			10115 May 05 12:50	0°♄
	10112 Nov 01 20:52	0°♄			10115 May 29 12:16	0°♂
	10112 Nov 29 09:13	0°≈		morning set	10115 Jun 12 12:27	17°♂34'11
evening max el	10112 Dec 14 03:35	14°≈48'50 45°52'31			10115 Jun 22 10:13	0°♄
	10112 Dec 31 07:12	0°♁			10115 Jul 16 08:51	0°♂
greatest brilliancy	10113 Jan 22 08:42	13°♁15'05 -4.8m				
retrograde	10113 Feb 01 01:42	14°♁58'36		superior conj	10115 Jul 22 05:14	7°♂18'53 -0°36'29
evening set	10113 Feb 15 17:10	10°♁48'41		minimum elong	10115 Jul 22 13:39	7°♂45'12 0°36'29
asc. node	10113 Feb 18 23:15	8°♁57'04		max. Earth dist.	10115 Jul 25 00:30	10°♂49'02 1.71821 AU
inferior conj	10113 Feb 22 00:51	7°♁04'04 0°46'33		asc. node	10115 Aug 06 15:32	26°♂34'17
minimum elong	10113 Feb 21 23:04	7°♁06'50 0°46'12			10115 Aug 09 09:33	0°♁
min. Earth dist.	10113 Feb 22 09:58	6°♁49'53 0.27674 AU		evening rise	10115 Aug 30 03:38	25°♁47'51
morning rise	10113 Feb 28 04:21	3°♁23'45			10115 Sep 02 13:00	0°♂
	10113 Mar 08 04:13	30°♁			10115 Sep 26 19:53	0°♂
direct	10113 Mar 15 01:40	29°≈02'06			10115 Oct 21 07:36	0°♁
	10113 Mar 22 04:02	0°♁			10115 Nov 15 02:14	0°♄
greatest brilliancy	10113 Mar 25 16:45	1°♁08'26 -4.9m		desc. node	10115 Nov 26 10:04	13°♄34'02
	10113 May 02 18:19	0°♂			10115 Dec 10 06:13	0°≈
morning max el	10113 May 04 09:48	1°♂38'42 46°52'16			10116 Jan 04 22:57	0°♁

	10116 Jan 31 13:06	0°♿			10118 Jul 06 19:09	0°♎		
evening max el	10116 Feb 25 05:28	25°♿57'41	46°30'05		10118 Jul 30 22:07	0°♏		
	10116 Feb 29 08:50	0°♄			10118 Aug 24 01:42	0°♐		
asc. node	10116 Mar 18 09:55	15°♄45'35		morning set	10118 Aug 24 15:25	0°♐42'32		
greatest brilliancy	10116 Apr 05 14:32	26°♄19'08	-4.9m	asc. node	10118 Sep 03 04:16	12°♐32'10		
retrograde	10116 Apr 15 07:30	28°♄06'14			10118 Sep 17 06:27	0°♑		
evening set	10116 May 03 00:33	22°♄05'45						
inferior conj	10116 May 05 23:30	20°♄17'48	9°01'33	superior conj	10118 Oct 01 15:14	17°♑46'53	1°01'54	
minimum elong	10116 May 05 18:49	20°♄25'00	9°00'56	minimum elong	10118 Oct 01 05:28	17°♑16'39	1°01'40	
min. Earth dist.	10116 May 05 23:20	20°♄18'04	0.27197 AU	max. Earth dist.	10118 Oct 03 10:28	20°♑00'36	1.72923 AU	
morning rise	10116 May 08 13:04	18°♄43'48			10118 Oct 11 12:21	0°♒		
direct	10116 May 26 16:01	12°♄26'58			10118 Nov 04 19:49	0°♓		
greatest brilliancy	10116 Jun 05 09:57	14°♄15'00	-4.9m	evening rise	10118 Nov 07 08:11	3°♓05'55		
	10116 Jun 29 21:55	0°♈			10118 Nov 29 05:37	0°♓		
desc. node	10116 Jul 08 07:34	7°♈33'51		desc. node	10118 Dec 23 21:49	0°♐10'09		
morning max el	10116 Jul 16 02:21	15°♈07'43	46°50'08		10118 Dec 23 18:29	0°♐		
	10116 Jul 30 09:08	0°♎			10119 Jan 17 10:35	0°♑		
	10116 Aug 26 06:19	0°♏			10119 Feb 11 06:08	0°♿		
	10116 Sep 21 00:40	0°♐			10119 Mar 08 07:17	0°♄		
	10116 Oct 16 06:30	0°♑			10119 Apr 02 21:18	0°♈		
asc. node	10116 Oct 29 04:15	15°♑30'17		asc. node	10119 Apr 15 20:27	14°♈43'38		
	10116 Nov 10 04:11	0°♒			10119 Apr 29 20:16	0°♎		
	10116 Dec 04 19:35	0°♓		evening max el	10119 May 09 09:49	9°♎54'23	46°54'52	
	10116 Dec 29 06:19	0°♓			10119 May 31 14:59	0°♏		
morning set	10117 Jan 12 09:27	17°♓25'06		greatest brilliancy	10119 Jun 18 13:02	10°♏37'41	-4.9m	
	10117 Jan 22 13:50	0°♐		retrograde	10119 Jun 28 19:12	12°♏35'39		
	10117 Feb 15 18:56	0°♑		evening set	10119 Jul 14 06:46	7°♏53'31		
max. Earth dist.	10117 Feb 16 17:53	1°♑11'15	1.72409 AU	inferior conj	10119 Jul 19 14:07	4°♏43'21	4°15'29	
desc. node	10117 Feb 17 20:43	2°♑34'34		minimum elong	10119 Jul 19 23:03	4°♏29'38	4°12'32	
				min. Earth dist.	10119 Jul 19 13:32	4°♏44'15	0.27213 AU	
superior conj	10117 Feb 19 10:53	4°♑33'03	-0°03'54	morning rise	10119 Jul 25 15:43	1°♏09'23		
minimum elong	10117 Feb 19 10:00	4°♑30'21	0°03'38		10119 Jul 27 22:28	30°♒♎		
behind sun begin	10117 Feb 18 10:07	3°♑16'08		desc. node	10119 Aug 05 18:36	27°♎11'46		
behind sun end	10117 Feb 20 09:54	5°♑44'34		direct	10119 Aug 09 09:24	26°♎56'03		
	10117 Mar 11 21:42	0°♿		greatest brilliancy	10119 Aug 19 05:07	28°♎43'23	-4.8m	
evening rise	10117 Mar 30 16:20	23°♿26'15			10119 Aug 22 10:19	0°♏		
	10117 Apr 04 22:19	0°♄		morning max el	10119 Sep 27 19:10	27°♏50'59	46°05'30	
	10117 Apr 28 21:51	0°♈			10119 Sep 30 00:02	0°♐		
	10117 May 22 22:23	0°♎			10119 Oct 28 13:34	0°♑		
asc. node	10117 Jun 10 16:58	23°♎19'01			10119 Nov 24 01:46	0°♒		
	10117 Jun 16 02:46	0°♏		asc. node	10119 Nov 26 16:56	3°♒03'08		
	10117 Jul 10 14:25	0°♐			10119 Dec 19 14:24	0°♓		
	10117 Aug 04 14:31	0°♑			10120 Jan 13 12:52	0°♓		
	10117 Aug 30 13:36	0°♒			10120 Feb 07 02:19	0°♐		
	10117 Sep 27 16:08	0°♓			10120 Mar 02 09:47	0°♑		
desc. node	10117 Sep 30 14:03	2°♓52'16		desc. node	10120 Mar 17 09:35	18°♑36'59		
evening max el	10117 Oct 01 10:48	3°♓42'41	45°52'20	morning set	10120 Mar 25 04:39	28°♑19'41		
	10117 Nov 04 07:42	0°♓			10120 Mar 26 12:49	0°♿		
greatest brilliancy	10117 Nov 09 10:16	2°♓08'12	-4.7m		10120 Apr 19 12:24	0°♄		
retrograde	10117 Nov 19 11:06	3°♓57'17		max. Earth dist.	10120 May 03 00:46	16°♄57'53	1.71339 AU	
	10117 Dec 03 16:32	30°♒♓						
evening set	10117 Dec 07 07:02	27°♓56'56		superior conj	10120 May 04 15:17	18°♄58'49	-1°25'28	
inferior conj	10117 Dec 10 21:43	25°♓42'37	-7°59'00	minimum elong	10120 May 04 09:54	18°♄41'54	1°25'44	
minimum elong	10117 Dec 11 05:11	25°♓30'53	7°57'42		10120 May 13 09:45	0°♈		
min. Earth dist.	10117 Dec 11 07:36	25°♓27'06	0.28996 AU		10120 Jun 06 06:45	0°♎		
morning rise	10117 Dec 15 03:17	23°♓06'08		evening rise	10120 Jun 14 02:18	9°♎48'15		
direct	10118 Jan 01 09:45	17°♓25'21			10120 Jun 30 05:28	0°♏		
greatest brilliancy	10118 Jan 12 05:13	19°♓34'07	-4.8m	asc. node	10120 Jul 08 04:59	9°♏57'31		
asc. node	10118 Jan 21 14:12	24°♓16'26			10120 Jul 24 07:45	0°♐		
	10118 Jan 29 21:11	0°♓			10120 Aug 17 15:20	0°♑		
morning max el	10118 Feb 19 23:59	18°♓46'26	46°08'15		10120 Sep 11 06:45	0°♒		
	10118 Mar 02 23:24	0°♐			10120 Oct 06 10:35	0°♓		
	10118 Mar 30 00:39	0°♑		desc. node	10120 Oct 28 00:50	24°♓59'17		
	10118 Apr 24 12:26	0°♿			10120 Nov 01 11:15	0°♓		
desc. node	10118 May 13 09:30	22°♿49'35			10120 Nov 29 03:42	0°♐		
	10118 May 19 06:27	0°♄		evening max el	10120 Dec 11 17:04	12°♐31'16	45°51'44	
	10118 Jun 12 15:01	0°♈			10120 Dec 31 19:45	0°♑		

greatest brilliancy	10121 Jan 19 23:34	10° H 58'34	-4.8m	superior conj	10123 Jul 19 18:19	4° Ω 56'37	-0°39'52
retrograde	10121 Jan 29 15:22	12° H 41'26		minimum elong	10123 Jul 20 03:23	5° Ω 24'58	0°39'51
evening set	10121 Feb 13 08:03	8° H 30'11		max. Earth dist.	10123 Jul 22 12:16	8° Ω 22'46	1.71783 AU
asc. node	10121 Feb 18 01:12	5° H 45'24		asc. node	10123 Aug 05 17:21	26° Ω 07'01	
inferior conj	10121 Feb 19 15:19	4° H 46'24	0°24'06		10123 Aug 08 20:08	0° M	
minimum elong	10121 Feb 19 14:24	4° H 47'50	0°24'02	evening rise	10123 Aug 27 19:09	23° M 34'23	
min. Earth dist.	10121 Feb 20 01:37	4° H 30'25	0.27712 AU		10123 Sep 01 23:35	0° Ω	
morning rise	10121 Feb 25 20:02	1° H 04'14			10123 Sep 26 06:35	0° M	
	10121 Feb 27 21:18	30° R \approx			10123 Oct 20 18:34	0° H	
direct	10121 Mar 12 15:53	26° \approx 43'33			10123 Nov 14 13:41	0° Z	
greatest brilliancy	10121 Mar 23 09:17	28° \approx 51'43	-4.8m	desc. node	10123 Nov 25 12:05	13° Z 05'00	
	10121 Mar 26 02:13	0° H			10123 Dec 09 18:29	0° \approx	
morning max el	10121 May 01 23:41	29° H 17'17	46°51'28		10124 Jan 04 12:39	0° H	
	10121 May 02 16:39	0° Y			10124 Jan 31 05:43	0° Y	
	10121 May 30 10:52	0° B		evening max el	10124 Feb 22 20:03	23° Y 39'03	46°28'42
desc. node	10121 Jun 09 21:57	12° B 00'54			10124 Feb 29 09:59	0° B	
	10121 Jun 25 05:28	0° II		asc. node	10124 Mar 17 11:54	14° B 31'07	
	10121 Jul 20 05:11	0° G		greatest brilliancy	10124 Apr 03 02:28	23° B 53'48	-4.9m
	10121 Aug 13 21:02	0° Ω		retrograde	10124 Apr 12 21:04	25° B 41'49	
	10121 Sep 07 09:48	0° M		evening set	10124 Apr 30 09:46	19° B 46'46	
asc. node	10121 Sep 30 17:18	28° M 34'59		inferior conj	10124 May 03 12:27	17° B 53'07	8°56'02
	10121 Oct 01 21:00	0° Ω		minimum elong	10124 May 03 06:54	18° B 01'40	8°55'17
	10121 Oct 26 06:44	0° M		min. Earth dist.	10124 May 03 11:26	17° B 54'40	0.27201 AU
morning set	10121 Nov 02 11:34	8° M 52'03		morning rise	10124 May 06 04:03	16° B 16'05	
	10121 Nov 19 15:06	0° H		direct	10124 May 24 05:41	10° B 02'16	
max. Earth dist.	10121 Dec 08 16:24	23° H 30'18	1.73218 AU	greatest brilliancy	10124 Jun 02 22:19	11° B 49'30	-4.9m
					10124 Jun 30 05:21	0° II	
superior conj	10121 Dec 09 02:04	24° H 00'08	1°19'56	desc. node	10124 Jul 07 09:26	6° II 36'57	
minimum elong	10121 Dec 09 08:43	24° H 20'38	1°20'15	morning max el	10124 Jul 13 16:51	12° II 47'31	46°51'16
	10121 Dec 13 22:46	0° Z			10124 Jul 30 03:17	0° G	
	10122 Jan 07 06:24	0° \approx			10124 Aug 25 20:44	0° Ω	
evening rise	10122 Jan 15 11:56	10° \approx 09'06			10124 Sep 20 13:20	0° M	
desc. node	10122 Jan 20 09:58	16° \approx 13'04			10124 Oct 15 18:09	0° Ω	
	10122 Jan 31 14:04	0° H		asc. node	10124 Oct 28 06:16	15° Ω 02'11	
	10122 Feb 24 21:18	0° Y			10124 Nov 09 15:15	0° M	
	10122 Mar 21 04:13	0° B			10124 Dec 04 06:20	0° H	
	10122 Apr 14 12:31	0° II			10124 Dec 28 16:54	0° Z	
	10122 May 09 02:16	0° G		morning set	10125 Jan 10 02:03	15° Z 15'44	
asc. node	10122 May 13 07:31	5° G 06'00			10125 Jan 22 00:21	0° \approx	
	10122 Jun 03 04:29	0° Ω		max. Earth dist.	10125 Feb 14 09:24	28° \approx 57'47	1.72447 AU
	10122 Jun 29 09:07	0° M			10125 Feb 15 05:27	0° H	
evening max el	10122 Jul 20 03:43	21° M 58'50	46°30'17	desc. node	10125 Feb 16 22:36	2° H 07'41	
	10122 Jul 28 10:54	0° Ω					
greatest brilliancy	10122 Aug 28 03:38	21° Ω 48'40	-4.8m	superior conj	10125 Feb 17 01:04	2° H 15'24	-0°00'15
desc. node	10122 Sep 02 05:25	23° Ω 22'55		minimum elong	10125 Feb 17 01:03	2° H 15'20	0°00'00
retrograde	10122 Sep 08 04:51	24° Ω 04'12		behind sun begin	10125 Feb 16 10:29	1° H 30'06	
evening set	10122 Sep 24 02:22	19° Ω 10'59		behind sun end	10125 Feb 17 15:37	3° H 00'35	
min. Earth dist.	10122 Sep 28 19:26	16° Ω 21'04	0.28474 AU		10125 Mar 11 08:17	0° Y	
inferior conj	10122 Sep 29 14:28	15° Ω 51'25	-6°06'30	evening rise	10125 Mar 28 05:11	21° Y 03'03	
minimum elong	10122 Sep 29 04:16	16° Ω 07'19	6°04'11		10125 Apr 04 09:02	0° B	
morning rise	10122 Oct 04 06:35	13° Ω 01'02			10125 Apr 28 08:44	0° II	
direct	10122 Oct 20 19:55	7° Ω 47'28			10125 May 22 09:31	0° G	
greatest brilliancy	10122 Oct 30 13:13	9° Ω 29'43	-4.7m	asc. node	10125 Jun 09 18:55	22° G 49'58	
	10122 Nov 30 08:48	0° M			10125 Jun 15 14:12	0° Ω	
morning max el	10122 Dec 08 13:36	7° M 35'34	45°41'39		10125 Jul 10 02:23	0° M	
asc. node	10122 Dec 24 04:52	23° M 22'25			10125 Aug 04 03:26	0° Ω	
	10122 Dec 30 10:14	0° H			10125 Aug 30 04:33	0° M	
	10123 Jan 26 04:39	0° Z			10125 Sep 27 12:47	0° H	
	10123 Feb 20 15:57	0° \approx		evening max el	10125 Sep 29 02:39	1° H 32'23	45°53'06
	10123 Mar 17 11:08	0° H		desc. node	10125 Sep 29 16:08	2° H 04'59	
	10123 Apr 10 20:39	0° Y		greatest brilliancy	10125 Nov 07 01:28	29° H 58'45	-4.7m
desc. node	10123 Apr 14 22:37	5° Y 03'22			10125 Nov 07 02:54	0° Z	
	10123 May 04 23:49	0° B		retrograde	10125 Nov 17 02:48	1° Z 48'01	
	10123 May 28 23:06	0° II			10125 Nov 26 15:23	30° R H	
morning set	10123 Jun 10 00:12	15° II 06'40		evening set	10125 Dec 05 01:13	25° H 44'32	
	10123 Jun 21 20:56	0° G		inferior conj	10125 Dec 08 13:50	23° H 33'04	-8°06'33
	10123 Jul 15 19:29	0° Ω		minimum elong	10125 Dec 08 20:45	23° H 22'11	8°05'22

min. Earth dist.	10125 Dec 08 22:37	23°♊19'14	0.29021 AU		10128 Jun 05 17:28	0°♋	
morning rise	10125 Dec 12 16:14	21°♊01'01		evening rise	10128 Jun 11 13:05	7°♋17'54	
direct	10125 Dec 30 02:19	15°♊15'56			10128 Jun 29 16:15	0°♌	
greatest brilliancy	10126 Jan 09 20:02	17°♊22'46	-4.8m	asc. node	10128 Jul 07 06:48	9°♌29'26	
asc. node	10126 Jan 20 16:07	22°♊59'07			10128 Jul 23 18:41	0°♍	
	10126 Jan 30 08:10	0°♎			10128 Aug 17 02:33	0°♎	
morning max el	10126 Feb 17 14:59	16°♎32'02	46°06'38		10128 Sep 10 18:26	0°♏	
	10126 Mar 02 17:24	0°♏			10128 Oct 05 23:08	0°♐	
	10126 Mar 29 14:54	0°♑		desc. node	10128 Oct 27 02:52	24°♐25'33	
	10126 Apr 24 01:07	0°♑			10128 Nov 01 01:36	0°♑	
desc. node	10126 May 12 11:34	22°♑19'10			10128 Nov 28 22:28	0°♒	
	10126 May 18 18:18	0°♒		evening max el	10128 Dec 09 06:46	10°♒15'06	45°51'05
	10126 Jun 12 02:24	0°♓			10129 Jan 01 12:11	0°♓	
	10126 Jul 06 06:12	0°♋		greatest brilliancy	10129 Jan 17 13:50	8°♓42'15	-4.8m
	10126 Jul 30 08:55	0°♌		retrograde	10129 Jan 27 05:30	10°♓25'11	
morning set	10126 Aug 22 06:20	28°♌26'58		evening set	10129 Feb 10 23:07	6°♓12'06	
	10126 Aug 23 12:19	0°♍		inferior conj	10129 Feb 17 05:48	2°♓29'22	0°01'39
asc. node	10126 Sep 02 06:12	12°♍05'26		minimum elong	10129 Feb 17 05:43	2°♓29'28	0°01'52
	10126 Sep 16 16:55	0°♎		transit middle	10129 Feb 17 05:43	2°♓29'28	0°01'52
				transit begin	10129 Feb 17 01:41	2°♓35'44	
superior conj	10126 Sep 29 07:45	15°♎37'14	0°59'31	transit end	10129 Feb 17 09:45	2°♓23'13	
minimum elong	10126 Sep 28 21:58	15°♎06'59	0°59'14	asc. node	10129 Feb 17 03:11	2°♓33'25	
max. Earth dist.	10126 Oct 01 05:12	17°♎57'48	1.72889 AU	min. Earth dist.	10129 Feb 17 16:59	2°♓11'59	0.27756 AU
	10126 Oct 10 22:47	0°♏			10129 Feb 21 07:33	30°♒	
	10126 Nov 04 06:16	0°♐		morning rise	10129 Feb 23 11:35	28°♒45'50	
evening rise	10126 Nov 05 01:26	0°♐59'01		direct	10129 Mar 10 06:28	24°♒25'33	
	10126 Nov 28 16:12	0°♑		greatest brilliancy	10129 Mar 21 01:40	26°♒35'30	-4.8m
desc. node	10126 Dec 22 23:43	29°♑42'47			10129 Mar 28 03:41	0°♒	
	10126 Dec 23 05:22	0°♒		morning max el	10129 Apr 29 14:35	26°♒58'43	46°50'25
	10127 Jan 16 21:56	0°♓			10129 May 02 14:04	0°♑	
	10127 Feb 10 18:11	0°♑			10129 May 30 02:35	0°♒	
	10127 Mar 07 20:25	0°♓		desc. node	10129 Jun 08 23:48	11°♒23'40	
	10127 Apr 02 12:23	0°♓			10129 Jun 24 18:59	0°♓	
asc. node	10127 Apr 14 22:33	14°♓02'59			10129 Jul 19 17:34	0°♋	
	10127 Apr 29 15:53	0°♋			10129 Aug 13 08:42	0°♌	
evening max el	10127 May 06 22:47	7°♋29'59	46°54'48		10129 Sep 06 21:00	0°♍	
	10127 Jun 01 09:07	0°♌		asc. node	10129 Sep 29 19:17	28°♍07'40	
greatest brilliancy	10127 Jun 16 04:35	8°♌17'05	-4.9m		10129 Oct 01 07:52	0°♎	
retrograde	10127 Jun 26 08:15	10°♌12'58			10129 Oct 25 17:23	0°♏	
evening set	10127 Jul 11 23:04	5°♌27'20		morning set	10129 Oct 31 04:24	6°♏43'22	
inferior conj	10127 Jul 17 03:27	2°♌21'23	4°36'29		10129 Nov 19 01:39	0°♐	
minimum elong	10127 Jul 17 12:53	2°♌06'50	4°33'26				
min. Earth dist.	10127 Jul 17 04:00	2°♌20'31	0.27195 AU	superior conj	10129 Dec 06 19:20	21°♐52'49	1°21'06
	10127 Jul 21 01:01	30°♒		minimum elong	10129 Dec 07 01:26	22°♐11'37	1°21'26
morning rise	10127 Jul 23 03:01	28°♒49'44		max. Earth dist.	10129 Dec 06 12:22	21°♐31'17	1.73226 AU
desc. node	10127 Aug 04 20:34	24°♒39'15			10129 Dec 13 09:18	0°♑	
direct	10127 Aug 06 22:02	24°♒34'11			10130 Jan 06 17:01	0°♒	
greatest brilliancy	10127 Aug 16 18:48	26°♒22'01	-4.8m	evening rise	10130 Jan 13 03:57	7°♒57'41	
	10127 Aug 24 16:12	0°♓		desc. node	10130 Jan 19 11:52	15°♒45'59	
morning max el	10127 Sep 25 08:07	25°♓30'35	46°07'04		10130 Jan 31 00:51	0°♓	
	10127 Sep 29 21:36	0°♍			10130 Feb 24 08:20	0°♑	
	10127 Oct 28 04:56	0°♎			10130 Mar 20 15:35	0°♓	
	10127 Nov 23 14:46	0°♏			10130 Apr 14 00:24	0°♓	
asc. node	10127 Nov 25 18:51	2°♏31'19			10130 May 08 14:57	0°♋	
	10127 Dec 19 02:13	0°♐		asc. node	10130 May 12 09:24	4°♋32'58	
	10128 Jan 13 00:04	0°♑			10130 Jun 02 18:33	0°♌	
	10128 Feb 06 13:12	0°♒			10130 Jun 29 02:05	0°♍	
	10128 Mar 01 20:31	0°♓		evening max el	10130 Jul 17 18:57	19°♍42'30	46°31'50
desc. node	10128 Mar 16 11:35	18°♓09'50			10130 Jul 28 13:25	0°♎	
morning set	10128 Mar 22 16:45	25°♓54'22		greatest brilliancy	10130 Aug 25 18:28	19°♎33'30	-4.8m
	10128 Mar 25 23:32	0°♑		desc. node	10130 Sep 01 07:29	21°♎25'57	
	10128 Apr 18 23:06	0°♓		retrograde	10130 Sep 05 21:09	21°♎50'20	
max. Earth dist.	10128 Apr 30 05:27	14°♓08'19	1.71359 AU	evening set	10130 Sep 21 15:00	17°♎00'58	
				min. Earth dist.	10130 Sep 26 10:13	14°♎08'15	0.28422 AU
superior conj	10128 May 02 02:36	16°♓30'04	-1°24'30	inferior conj	10130 Sep 27 05:44	13°♎37'53	-5°51'17
minimum elong	10128 May 01 20:16	16°♓10'10	1°24'42	minimum elong	10130 Sep 26 19:36	13°♎53'39	5°48'56
	10128 May 12 20:27	0°♓		morning rise	10130 Oct 02 00:40	10°♎43'52	

direct	10130 Oct 18 10:54	5°♌34'36		10133 Apr 27 19:53	0°♊	
greatest brilliancy	10130 Oct 28 03:28	7°♌16'38	-4.7m	10133 May 21 20:52	0°♊	
	10130 Nov 30 10:37	0°♌		10133 Jun 08 20:48	22°♊19'57	
morning max el	10130 Dec 06 05:32	5°♌25'06	45°41'41	10133 Jun 15 01:54	0°♌	
asc. node	10130 Dec 23 06:45	22°♌41'02		10133 Jul 09 14:39	0°♍	
	10130 Dec 30 02:37	0°♍		10133 Aug 03 16:47	0°♌	
	10131 Jan 25 18:11	0°♍		10133 Aug 29 20:07	0°♌	
	10131 Feb 20 04:14	0°♍		10133 Sep 26 17:52	29°♌19'09	45°53'54
	10131 Mar 16 22:46	0°♍		10133 Sep 27 10:44	0°♍	
	10131 Apr 10 07:55	0°♍		10133 Sep 28 18:09	1°♍15'27	
desc. node	10131 Apr 14 00:39	4°♍34'50		10133 Nov 04 17:09	27°♍48'35	-4.7m
	10131 May 04 10:52	0°♍		10133 Nov 14 18:09	29°♍37'47	
	10131 May 28 10:02	0°♊		10133 Dec 02 19:16	23°♍31'23	
morning set	10131 Jun 07 11:44	12°♊38'00		10133 Dec 06 06:01	21°♍22'37	-8°13'19
	10131 Jun 21 07:49	0°♊		10133 Dec 06 12:20	21°♍12'40	8°12'16
	10131 Jul 15 06:19	0°♌		10133 Dec 06 14:00	21°♍10'02	0.29040 AU
				10133 Dec 10 05:21	18°♍54'52	
superior conj	10131 Jul 17 06:54	2°♌31'58	-0°43'13	10133 Dec 27 18:25	13°♍05'34	
minimum elong	10131 Jul 17 16:33	3°♌02'09	0°43'11	10134 Jan 07 11:19	15°♍11'02	-4.8m
max. Earth dist.	10131 Jul 20 00:43	5°♌57'47	1.71747 AU	10134 Jan 19 18:11	21°♍43'21	
asc. node	10131 Aug 04 19:19	25°♌39'32		10134 Jan 30 16:36	0°♍	
	10131 Aug 08 06:56	0°♍		10134 Feb 15 05:22	14°♍15'12	46°05'04
evening rise	10131 Aug 25 10:08	21°♍18'27		10134 Mar 02 11:19	0°♍	
	10131 Sep 01 10:24	0°♌		10134 Mar 29 05:19	0°♍	
	10131 Sep 25 17:30	0°♌		10134 Apr 23 14:02	0°♍	
	10131 Oct 20 05:46	0°♍		10134 May 11 13:21	21°♍47'01	
	10131 Nov 14 01:23	0°♍		10134 May 18 06:26	0°♍	
desc. node	10131 Nov 24 13:57	12°♍34'53		10134 Jun 11 14:03	0°♊	
	10131 Dec 09 07:03	0°♍		10134 Jul 05 17:30	0°♊	
	10132 Jan 04 02:44	0°♍		10134 Jul 29 19:58	0°♌	
	10132 Jan 30 22:55	0°♍		10134 Aug 19 21:22	26°♌10'48	
evening max el	10132 Feb 20 11:01	21°♍20'56	46°27'20	10134 Aug 22 23:12	0°♍	
	10132 Feb 29 12:46	0°♍		10134 Sep 01 08:10	11°♍37'55	
asc. node	10132 Mar 16 13:59	13°♍14'09		10134 Sep 16 03:43	0°♌	
greatest brilliancy	10132 Mar 31 14:53	21°♍28'58	-4.9m			
retrograde	10132 Apr 10 10:24	23°♍17'11		10134 Sep 27 00:16	13°♌26'31	0°57'02
evening set	10132 Apr 27 18:52	17°♍28'19		10134 Sep 26 14:32	12°♌56'26	0°56'44
inferior conj	10132 May 01 01:32	15°♍28'31	8°49'31	10134 Sep 28 21:57	15°♌47'51	1.72860 AU
minimum elong	10132 Apr 30 19:10	15°♍38'19	8°48'38	10134 Oct 10 09:33	0°♌	
min. Earth dist.	10132 Apr 30 23:53	15°♍31'02	0.27204 AU	10134 Nov 02 18:34	28°♌50'41	
morning rise	10132 May 03 19:30	13°♍47'45		10134 Nov 03 17:04	0°♍	
direct	10132 May 21 19:22	7°♍37'44		10134 Nov 28 03:10	0°♍	
greatest brilliancy	10132 May 31 11:00	9°♍24'05	-4.9m	10134 Dec 22 01:36	29°♍14'16	
	10132 Jun 30 10:45	0°♊		10134 Dec 22 16:37	0°♍	
desc. node	10132 Jul 06 11:27	5°♊41'03		10135 Jan 16 09:40	0°♍	
morning max el	10132 Jul 11 06:38	10°♊24'52	46°52'05	10135 Feb 10 06:38	0°♍	
	10132 Jul 29 21:16	0°♊		10135 Mar 07 10:01	0°♍	
	10132 Aug 25 11:18	0°♌		10135 Apr 02 04:03	0°♊	
	10132 Sep 20 02:15	0°♍		10135 Apr 14 00:28	13°♊20'14	
	10132 Oct 15 06:06	0°♌		10135 Apr 29 12:34	0°♊	
asc. node	10132 Oct 27 08:10	14°♌32'48		10135 May 04 11:24	5°♊03'38	46°54'44
	10132 Nov 09 02:37	0°♌		10135 Jun 02 10:22	0°♌	
	10132 Dec 03 17:21	0°♍		10135 Jun 13 20:05	5°♌55'28	-4.9m
	10132 Dec 28 03:45	0°♍		10135 Jun 23 21:26	7°♌49'47	
morning set	10133 Jan 07 18:35	13°♍05'25		10135 Jul 09 15:32	3°♌00'08	
	10133 Jan 21 11:09	0°♍		10135 Jul 14 16:51	29°♍58'47	4°56'50
max. Earth dist.	10133 Feb 11 22:51	26°♍37'06	1.72485 AU	10135 Jul 15 02:46	29°♍43'32	4°53'42
				10135 Jul 14 16:04	30°♍	
superior conj	10133 Feb 14 15:26	29°♍57'25	0°03'23	10135 Jul 14 18:35	29°♍56'07	0.27178 AU
minimum elong	10133 Feb 14 16:17	0°♍00'03	0°03'36	10135 Jul 20 14:12	26°♍29'59	
behind sun begin	10133 Feb 13 16:31	28°♍46'19		10135 Aug 03 22:35	22°♍11'49	
behind sun end	10133 Feb 15 16:02	1°♍13'46		10135 Aug 04 10:31	22°♍11'31	
	10133 Feb 14 16:16	0°♍		10135 Aug 14 08:43	24°♍00'23	-4.8m
desc. node	10133 Feb 16 00:35	1°♍40'20		10135 Aug 26 03:45	0°♌	
	10133 Mar 10 19:10	0°♍		10135 Sep 22 21:43	23°♌10'53	46°08'40
evening rise	10133 Mar 25 18:16	18°♍39'45		10135 Sep 29 18:39	0°♍	
	10133 Apr 03 20:02	0°♍		10135 Oct 27 20:23	0°♌	

	10135 Nov 23 04:00	0°♌			10138 Jun 02 08:56	0°♏	
asc. node	10135 Nov 24 20:42	1°♌58'30			10138 Jun 28 19:37	0°♐	
	10135 Dec 18 14:21	0°♑	evening max el		10138 Jul 15 11:04	17°♐27'42	46°33'15
	10136 Jan 12 11:35	0°♒			10138 Jul 28 17:51	0°♑	
	10136 Feb 06 00:23	0°♓	greatest brilliancy		10138 Aug 23 09:32	17°♑17'57	-4.8m
	10136 Mar 01 07:34	0°♈	desc. node		10138 Aug 31 09:30	19°♑23'46	
desc. node	10136 Mar 15 13:28	17°♈41'26	retrograde		10138 Sep 03 13:25	19°♑35'32	
morning set	10136 Mar 20 04:59	23°♈28'37	evening set		10138 Sep 19 03:45	14°♑50'13	
	10136 Mar 25 10:31	0°♉	min. Earth dist.		10138 Sep 24 00:55	11°♑54'46	0.28366 AU
	10136 Apr 18 10:05	0°♊	inferior conj		10138 Sep 24 20:55	11°♑23'42	-5°35'29
max. Earth dist.	10136 Apr 27 13:20	11°♊27'52	1.71385 AU		10138 Sep 24 10:54	11°♑39'16	5°33'05
			minimum elong		10138 Sep 29 18:38	8°♑26'02	
superior conj	10136 Apr 29 13:57	14°♊00'29	-1°23'21		10138 Sep 29 18:38	8°♑26'02	
minimum elong	10136 Apr 29 06:44	13°♊37'47	1°23'31		10138 Oct 16 02:06	3°♑21'22	
	10136 May 12 07:28	0°♋			10138 Oct 25 17:12	5°♑02'34	-4.7m
	10136 Jun 05 04:31	0°♌			10138 Nov 30 11:08	0°♌	
evening rise	10136 Jun 09 00:02	4°♌47'01			10138 Dec 03 21:10	3°♌13'56	45°41'46
	10136 Jun 29 03:23	0°♍	asc. node		10138 Dec 22 08:49	22°♌00'35	
asc. node	10136 Jul 06 08:49	9°♍01'00			10138 Dec 29 18:42	0°♎	
	10136 Jul 23 05:57	0°♏			10139 Jan 25 07:37	0°♏	
	10136 Aug 16 14:02	0°♐			10139 Feb 19 16:31	0°♐	
	10136 Sep 10 06:23	0°♑			10139 Mar 16 10:28	0°♑	
	10136 Oct 05 12:01	0°♒			10139 Apr 09 19:16	0°♒	
desc. node	10136 Oct 26 04:43	23°♒50'18			10139 Apr 13 02:28	4°♒05'23	
	10136 Oct 31 16:23	0°♓			10139 May 03 22:00	0°♓	
	10136 Nov 28 18:07	0°♈			10139 May 27 21:02	0°♈	
evening max el	10136 Dec 06 21:32	8°♈00'51	45°50'26		10139 Jun 04 23:07	10°♈08'43	
	10137 Jan 02 10:59	0°♉			10139 Jun 20 18:44	0°♉	
greatest brilliancy	10137 Jan 15 03:42	6°♉24'55	-4.8m		10139 Jul 14 19:19	0°♉06'41	-0°46'30
retrograde	10137 Jan 24 20:08	8°♉08'22			10139 Jul 15 05:29	0°♉38'29	0°46'28
evening set	10137 Feb 08 14:30	3°♉53'22			10139 Jul 14 17:11	0°♊	
inferior conj	10137 Feb 14 20:21	0°♉11'44	-0°20'42		10139 Jul 17 14:40	3°♊03'21	1.71712 AU
minimum elong	10137 Feb 14 21:08	0°♉10'31	0°20'12		10139 Aug 03 21:16	25°♊11'50	
	10137 Feb 15 03:55	30°♊			10139 Aug 07 17:46	0°♋	
min. Earth dist.	10137 Feb 15 08:08	29°♊53'29	0.27801 AU		10139 Aug 23 00:57	19°♋01'45	
asc. node	10137 Feb 16 05:12	29°♊20'52			10139 Aug 31 21:16	0°♌	
morning rise	10137 Feb 21 03:04	26°♊27'13			10139 Sep 25 04:29	0°♌	
direct	10137 Mar 07 21:39	22°♊07'11			10139 Oct 19 17:00	0°♍	
greatest brilliancy	10137 Mar 18 17:35	24°♊18'17	-4.8m		10139 Nov 13 13:06	0°♎	
	10137 Mar 29 12:51	0°♋			10139 Nov 23 15:57	12°♎05'09	
morning max el	10137 Apr 27 06:17	24°♋41'39	46°49'15		10139 Dec 08 19:37	0°♏	
	10137 May 02 10:58	0°♌			10140 Jan 03 16:52	0°♏	
	10137 May 29 18:16	0°♍			10140 Jan 30 16:26	0°♐	
desc. node	10137 Jun 08 01:47	10°♍46'23			10140 Feb 18 01:18	19°♐01'06	46°25'42
	10137 Jun 24 08:37	0°♎			10140 Feb 29 17:18	0°♑	
	10137 Jul 19 06:07	0°♏			10140 Mar 15 15:52	11°♑53'57	
	10137 Aug 12 20:35	0°♐			10140 Mar 29 03:47	19°♑04'16	-4.9m
	10137 Sep 06 08:24	0°♑			10140 Apr 07 22:56	20°♑51'55	
asc. node	10137 Sep 28 21:09	27°♑39'23			10140 Apr 25 03:33	15°♑09'50	
	10137 Sep 30 18:55	0°♒			10140 Apr 28 14:30	13°♑03'29	8°41'52
	10137 Oct 25 04:11	0°♓			10140 Apr 28 07:21	13°♑14'31	8°40'50
morning set	10137 Oct 28 21:31	4°♓35'02			10140 Apr 28 12:40	13°♑06'18	0.27209 AU
	10137 Nov 18 12:20	0°♈			10140 May 01 11:09	11°♑18'28	
					10140 May 19 08:32	5°♑12'40	
superior conj	10137 Dec 04 12:46	19°♑45'31	1°22'08		10140 May 29 00:19	6°♑58'51	-4.9m
minimum elong	10137 Dec 04 18:16	20°♑02'28	1°22'30		10140 Jun 30 14:23	0°♒	
max. Earth dist.	10137 Dec 04 10:03	19°♑37'07	1.73235 AU		10140 Jul 05 13:29	4°♒46'09	
	10137 Dec 12 20:00	0°♓			10140 Jul 08 19:14	7°♒58'58	46°52'57
	10138 Jan 06 03:50	0°♈			10140 Jul 29 14:49	0°♓	
evening rise	10138 Jan 10 20:02	5°♈45'52			10140 Aug 25 01:38	0°♏	
desc. node	10138 Jan 18 13:54	15°♈18'41			10140 Sep 19 15:00	0°♐	
	10138 Jan 30 11:51	0°♉			10140 Oct 14 17:56	0°♑	
	10138 Feb 23 19:35	0°♊			10140 Oct 26 10:01	14°♑03'32	
	10138 Mar 20 03:11	0°♋			10140 Nov 08 13:52	0°♌	
	10138 Apr 13 12:31	0°♌			10140 Dec 03 04:15	0°♍	
	10138 May 08 03:53	0°♍			10140 Dec 27 14:27	0°♎	
asc. node	10138 May 11 11:19	3°♍59'22			10141 Jan 05 11:23	10°♎56'19	

	10141 Jan 20 21:46	0°♊				10143 Jul 08 06:32	30°♋♌		
max. Earth dist.	10141 Feb 09 13:18	24°♊20'05	1.72526 AU	inferior conj		10143 Jul 12 06:00	27°♌36'01	5°16'45	
				minimum elong		10143 Jul 12 16:19	27°♌20'10	5°13'36	
superior conj	10141 Feb 12 06:08	27°♊41'09	0°06'56	min. Earth dist.		10143 Jul 12 08:42	27°♌31'53	0.27168 AU	
minimum elong	10141 Feb 12 07:49	27°♊46'24	0°07'07	morning rise		10143 Jul 18 00:55	24°♌10'40		
behind sun begin	10141 Feb 11 09:55	26°♊38'26		direct		10143 Aug 01 22:59	19°♌48'29		
behind sun end	10141 Feb 13 05:44	28°♊54'22		desc. node		10143 Aug 03 00:33	19°♌49'49		
	10141 Feb 14 02:54	0°♋		greatest brilliancy		10143 Aug 11 22:22	21°♌38'31	-4.8m	
desc. node	10141 Feb 15 02:28	1°♋13'09				10143 Aug 27 04:52	0°♌		
	10141 Mar 10 05:54	0°♍		morning max el		10143 Sep 20 12:01	20°♌53'20	46°10'19	
evening rise	10141 Mar 23 07:32	16°♍17'34				10143 Sep 29 14:46	0°♍		
	10141 Apr 03 06:55	0°♎				10143 Oct 27 11:20	0°♎		
	10141 Apr 27 06:58	0°♏				10143 Nov 22 16:49	0°♏		
	10141 May 21 08:11	0°♐		asc. node		10143 Nov 23 22:47	1°♏27'23		
asc. node	10141 Jun 07 22:49	21°♐50'31				10143 Dec 18 02:06	0°♐		
	10141 Jun 14 13:33	0°♑				10144 Jan 11 22:45	0°♑		
	10141 Jul 09 02:53	0°♒				10144 Feb 05 11:15	0°♒		
	10141 Aug 03 06:07	0°♓				10144 Feb 29 18:16	0°♓		
	10141 Aug 29 11:49	0°♔		desc. node		10144 Mar 14 15:20	17°♓14'10		
evening max el	10141 Sep 24 08:09	27°♔03'55	45°54'45	morning set		10144 Mar 17 17:38	21°♓05'26		
	10141 Sep 27 09:27	0°♑				10144 Mar 24 21:09	0°♑		
desc. node	10141 Sep 27 20:01	0°♑25'02				10144 Apr 17 20:41	0°♒		
greatest brilliancy	10141 Nov 02 08:46	25°♑38'35	-4.7m	max. Earth dist.		10144 Apr 25 00:19	8°♒58'23	1.71407 AU	
retrograde	10141 Nov 12 09:30	27°♑28'03							
evening set	10141 Nov 30 13:01	21°♑18'55		superior conj		10144 Apr 27 01:40	11°♒33'18	-1°22'02	
inferior conj	10141 Dec 03 22:09	19°♑12'39	-8°19'20	minimum elong		10144 Apr 26 17:38	11°♒08'06	1°22'10	
minimum elong	10141 Dec 04 03:48	19°♑03'44	8°18'25			10144 May 11 18:04	0°♓		
min. Earth dist.	10141 Dec 04 05:31	19°♑01'02	0.29057 AU			10144 Jun 04 15:10	0°♓		
morning rise	10141 Dec 07 18:32	16°♑49'11		evening rise		10144 Jun 06 11:16	2°♓18'20		
direct	10141 Dec 25 10:02	10°♑55'32				10144 Jun 28 14:08	0°♑		
greatest brilliancy	10142 Jan 05 03:07	13°♑00'33	-4.8m	asc. node		10144 Jul 05 10:45	8°♑33'27		
asc. node	10142 Jan 18 20:08	20°♑30'11				10144 Jul 22 16:52	0°♒		
	10142 Jan 30 22:16	0°♓				10144 Aug 16 01:14	0°♓		
morning max el	10142 Feb 12 19:44	11°♓59'09	46°03'45			10144 Sep 09 18:05	0°♔		
	10142 Mar 02 04:30	0°♊				10144 Oct 05 00:41	0°♑		
	10142 Mar 28 19:14	0°♋		desc. node		10144 Oct 25 06:46	23°♑16'13		
	10142 Apr 23 02:35	0°♍				10144 Oct 31 07:06	0°♓		
desc. node	10142 May 10 15:19	21°♍16'23				10144 Nov 28 14:05	0°♊		
	10142 May 17 18:17	0°♎		evening max el		10144 Dec 04 12:50	5°♊48'45	45°49'51	
	10142 Jun 11 01:28	0°♏				10145 Jan 03 18:10	0°♋		
	10142 Jul 05 04:37	0°♐		greatest brilliancy		10145 Jan 12 17:18	4°♋08'14	-4.8m	
	10142 Jul 29 06:50	0°♑		retrograde		10145 Jan 22 10:42	5°♋52'05		
morning set	10142 Aug 17 11:52	23°♑53'27		evening set		10145 Feb 06 06:00	1°♋35'13		
	10142 Aug 22 09:53	0°♒				10145 Feb 09 00:45	30°♋♌		
asc. node	10142 Aug 31 10:00	11°♒10'35		inferior conj		10145 Feb 12 10:45	27°♌54'41	-0°43'01	
	10142 Sep 15 14:18	0°♓		minimum elong		10145 Feb 12 12:23	27°♌52'10	0°42'14	
				min. Earth dist.		10145 Feb 12 22:54	27°♌35'51	0.27843 AU	
superior conj	10142 Sep 24 16:21	11°♓15'11	0°54'26	asc. node		10145 Feb 15 07:09	26°♌09'30		
minimum elong	10142 Sep 24 06:44	10°♓45'27	0°54'06	morning rise		10145 Feb 18 18:10	24°♌09'23		
max. Earth dist.	10142 Sep 26 13:41	13°♓35'29	1.72829 AU	direct		10145 Mar 05 13:07	19°♌49'36		
	10142 Oct 09 20:05	0°♔		greatest brilliancy		10145 Mar 16 08:51	22°♌01'02	-4.8m	
evening rise	10142 Oct 31 11:32	26°♔42'34				10145 Mar 30 12:03	0°♋		
	10142 Nov 03 03:39	0°♑		morning max el		10145 Apr 24 21:57	22°♋25'47	46°48'14	
	10142 Nov 27 13:54	0°♓				10145 May 02 06:45	0°♑		
desc. node	10142 Dec 21 03:38	28°♓46'56				10145 May 29 09:16	0°♒		
	10142 Dec 22 03:39	0°♊		desc. node		10145 Jun 07 03:49	10°♒10'57		
	10143 Jan 15 21:09	0°♋				10145 Jun 23 21:40	0°♏		
	10143 Feb 09 18:50	0°♍				10145 Jul 18 18:09	0°♐		
	10143 Mar 06 23:21	0°♎				10145 Aug 12 08:00	0°♑		
asc. node	10143 Apr 01 19:33	0°♏		asc. node		10145 Sep 05 19:24	0°♒		
	10143 Apr 13 02:24	12°♏38'09				10145 Sep 27 23:03	27°♒12'18		
	10143 Apr 29 09:33	0°♐				10145 Sep 30 05:38	0°♓		
evening max el	10143 May 01 23:54	2°♐38'08	46°54'29			10145 Oct 24 14:42	0°♔		
	10143 Jun 03 21:30	0°♑		morning set		10145 Oct 26 14:16	2°♔26'31		
greatest brilliancy	10143 Jun 11 10:39	3°♑33'08	-4.9m			10145 Nov 17 22:44	0°♑		
retrograde	10143 Jun 21 10:44	5°♑26'46							
evening set	10143 Jul 07 07:50	0°♑32'32		superior conj		10145 Dec 02 05:52	17°♑38'05	1°23'04	

minimum elong	10145 Dec 02 10:44	17° ♁ 53'07	1°23'27			10148 Jun 30 16:19	0° ♁	
max. Earth dist.	10145 Dec 02 07:05	17° ♁ 41'50	1.73239 AU	desc. node		10148 Jul 04 15:22	3° ♁ 52'18	
	10145 Dec 12 06:24	0° ♁		morning max el		10148 Jul 06 07:27	5° ♁ 32'18	46°54'00
	10146 Jan 05 14:21	0° ♁				10148 Jul 29 07:51	0° ♁	
evening rise	10146 Jan 08 11:49	3° ♁ 34'04				10148 Aug 24 15:38	0° ♁	
desc. node	10146 Jan 17 15:44	14° ♁ 51'40				10148 Sep 19 03:28	0° ♁	
	10146 Jan 29 22:34	0° ♁				10148 Oct 14 05:31	0° ♁	
	10146 Feb 23 06:35	0° ♁		asc. node		10148 Oct 25 12:04	13° ♁ 35'31	
	10146 Mar 19 14:32	0° ♁				10148 Nov 08 00:56	0° ♁	
	10146 Apr 13 00:23	0° ♁				10148 Dec 02 15:02	0° ♁	
	10146 May 07 16:33	0° ♁				10148 Dec 27 01:05	0° ♁	
asc. node	10146 May 10 13:24	3° ♁ 27'12		morning set		10149 Jan 03 04:08	8° ♁ 47'13	
	10146 Jun 01 23:03	0° ♁				10149 Jan 20 08:22	0° ♁	
	10146 Jun 28 13:00	0° ♁		max. Earth dist.		10149 Feb 07 04:40	22° ♁ 06'02	1.72569 AU
evening max el	10146 Jul 13 03:20	15° ♁ 14'38	46°34'36					
	10146 Jul 28 23:36	0° ♁		superior conj		10149 Feb 09 20:45	25° ♁ 24'41	0°10'28
greatest brilliancy	10146 Aug 21 01:03	15° ♁ 04'18	-4.8m	minimum elong		10149 Feb 09 23:16	25° ♁ 32'30	0°10'38
desc. node	10146 Aug 30 11:23	17° ♁ 18'15		behind sun begin		10149 Feb 09 04:59	24° ♁ 35'47	
retrograde	10146 Sep 01 05:18	17° ♁ 21'52		behind sun end		10149 Feb 10 17:33	26° ♁ 29'12	
evening set	10146 Sep 16 16:46	12° ♁ 40'34				10149 Feb 13 13:32	0° ♁	
min. Earth dist.	10146 Sep 21 15:55	9° ♁ 42'11	0.28313 AU	desc. node		10149 Feb 14 04:20	0° ♁ 45'57	
inferior conj	10146 Sep 22 12:10	9° ♁ 10'42	-5°19'09			10149 Mar 09 16:38	0° ♁	
minimum elong	10146 Sep 22 02:21	9° ♁ 25'58	5°16'43	evening rise		10149 Mar 20 20:43	13° ♁ 55'19	
morning rise	10146 Sep 27 12:36	6° ♁ 09'15				10149 Apr 02 17:48	0° ♁	
direct	10146 Oct 13 17:34	1° ♁ 09'21				10149 Apr 26 18:03	0° ♁	
greatest brilliancy	10146 Oct 23 07:10	2° ♁ 49'30	-4.7m			10149 May 20 19:30	0° ♁	
	10146 Nov 30 10:14	0° ♁		asc. node		10149 Jun 07 00:44	21° ♁ 20'39	
morning max el	10146 Dec 01 12:09	1° ♁ 01'50	45°41'43			10149 Jun 14 01:15	0° ♁	
asc. node	10146 Dec 21 10:46	21° ♁ 20'52				10149 Jul 08 15:12	0° ♁	
	10146 Dec 29 10:17	0° ♁				10149 Aug 02 19:33	0° ♁	
	10147 Jan 24 20:45	0° ♁				10149 Aug 29 03:41	0° ♁	
	10147 Feb 19 04:31	0° ♁		evening max el		10149 Sep 21 22:20	24° ♁ 48'53	45°55'50
	10147 Mar 15 21:53	0° ♁		desc. node		10149 Sep 26 22:07	29° ♁ 34'40	
	10147 Apr 09 06:21	0° ♁				10149 Sep 27 08:59	0° ♁	
desc. node	10147 Apr 12 04:24	3° ♁ 37'03		greatest brilliancy		10149 Oct 30 23:53	23° ♁ 28'48	-4.7m
	10147 May 03 08:54	0° ♁		retrograde		10149 Nov 10 01:23	25° ♁ 19'30	
	10147 May 27 07:49	0° ♁		evening set		10149 Nov 28 06:43	19° ♁ 07'36	
morning set	10147 Jun 02 10:34	7° ♁ 40'23		inferior conj		10149 Dec 01 14:32	17° ♁ 03'33	-8°24'34
	10147 Jun 20 05:25	0° ♁		minimum elong		10149 Dec 01 19:30	16° ♁ 55'43	8°23'46
				min. Earth dist.		10149 Dec 01 21:02	16° ♁ 53'19	0.29077 AU
superior conj	10147 Jul 12 08:03	27° ♁ 43'11	-0°49'40	morning rise		10149 Dec 05 08:12	14° ♁ 44'14	
minimum elong	10147 Jul 12 18:40	28° ♁ 16'23	0°49'39	direct		10149 Dec 23 01:56	8° ♁ 46'12	
	10147 Jul 14 03:46	0° ♁		greatest brilliancy		10150 Jan 02 19:24	10° ♁ 51'15	-4.8m
max. Earth dist.	10147 Jul 15 04:32	1° ♁ 17'29	1.71670 AU	asc. node		10150 Jan 17 22:04	19° ♁ 19'15	
asc. node	10147 Aug 02 23:06	24° ♁ 44'43				10150 Jan 31 02:00	0° ♁	
	10147 Aug 07 04:18	0° ♁		morning max el		10150 Feb 10 10:59	9° ♁ 45'10	46°02'18
evening rise	10147 Aug 20 16:00	16° ♁ 46'43				10150 Mar 01 21:27	0° ♁	
	10147 Aug 31 07:49	0° ♁				10150 Mar 28 09:13	0° ♁	
	10147 Sep 24 15:12	0° ♁				10150 Apr 22 15:14	0° ♁	
	10147 Oct 19 04:02	0° ♁		desc. node		10150 May 09 17:22	20° ♁ 45'33	
	10147 Nov 13 00:40	0° ♁				10150 May 17 06:14	0° ♁	
desc. node	10147 Nov 22 17:56	11° ♁ 35'46				10150 Jun 10 12:59	0° ♁	
	10147 Dec 08 08:06	0° ♁				10150 Jul 04 15:49	0° ♁	
	10148 Jan 03 07:03	0° ♁				10150 Jul 28 17:50	0° ♁	
	10148 Jan 30 10:15	0° ♁		morning set		10150 Aug 15 02:20	21° ♁ 35'27	
evening max el	10148 Feb 15 14:36	16° ♁ 39'15	46°24'06			10150 Aug 21 20:44	0° ♁	
	10148 Feb 29 23:45	0° ♁		asc. node		10150 Aug 30 11:56	10° ♁ 43'11	
asc. node	10148 Mar 14 17:53	10° ♁ 31'38				10150 Sep 15 01:01	0° ♁	
greatest brilliancy	10148 Mar 26 17:00	16° ♁ 40'17	-4.9m					
retrograde	10148 Apr 05 11:08	18° ♁ 27'12		superior conj		10150 Sep 22 08:34	9° ♁ 03'46	0°51'45
evening set	10148 Apr 22 12:06	12° ♁ 51'55		minimum elong		10150 Sep 21 23:07	8° ♁ 34'30	0°51'24
inferior conj	10148 Apr 26 03:29	10° ♁ 38'57	8°33'22	max. Earth dist.		10150 Sep 24 05:28	11° ♁ 22'46	1.72795 AU
minimum elong	10148 Apr 25 19:36	10° ♁ 51'09	8°32'09			10150 Oct 09 06:44	0° ♁	
min. Earth dist.	10148 Apr 26 01:46	10° ♁ 41'37	0.27214 AU	evening rise		10150 Oct 29 04:52	24° ♁ 35'18	
morning rise	10148 Apr 29 03:03	8° ♁ 49'24				10150 Nov 02 14:20	0° ♁	
direct	10148 May 16 21:14	2° ♁ 47'50				10150 Nov 27 00:45	0° ♁	
greatest brilliancy	10148 May 26 14:16	4° ♁ 34'39	-4.9m	desc. node		10150 Dec 20 05:32	28° ♁ 18'44	

	10150 Dec 21 14:50	0°♊		desc. node	10153 Jun 06 05:39	9°♊33'39	
	10151 Jan 15 08:52	0°♋			10153 Jun 23 11:09	0°♋	
	10151 Feb 09 07:20	0°♌			10153 Jul 18 06:39	0°♌	
	10151 Mar 06 13:06	0°♍			10153 Aug 11 19:53	0°♍	
	10151 Apr 01 11:40	0°♎			10153 Sep 05 06:50	0°♎	
asc. node	10151 Apr 12 04:30	11°♎54'56		asc. node	10153 Sep 27 01:02	26°♎44'10	
	10151 Apr 29 07:43	0°♏			10153 Sep 29 16:44	0°♏	
evening max el	10151 Apr 29 13:12	0°♏13'47	46°54'20	morning set	10153 Oct 24 07:04	0°♏16'51	
	10151 Jun 06 04:20	0°♐			10153 Oct 24 01:35	0°♏	
greatest brilliancy	10151 Jun 09 00:34	1°♐09'09	-4.9m		10153 Nov 17 09:32	0°♐	
retrograde	10151 Jun 19 00:28	3°♐02'46					
	10151 Jul 01 07:32	30°♑♏		superior conj	10153 Nov 29 23:16	15°♐30'27	1°23'53
evening set	10151 Jul 05 00:12	28°♏03'42		minimum elong	10153 Nov 30 03:30	15°♐43'29	1°24'15
inferior conj	10151 Jul 09 19:06	25°♏12'05	5°36'11	max. Earth dist.	10153 Nov 30 02:27	15°♐40'16	1.73238 AU
minimum elong	10151 Jul 10 05:45	24°♏55'46	5°33'01		10153 Dec 11 17:13	0°♑	
min. Earth dist.	10151 Jul 09 22:20	25°♏07'09	0.27159 AU		10154 Jan 05 01:15	0°♑	
morning rise	10151 Jul 15 11:23	21°♏50'41		evening rise	10154 Jan 06 04:01	1°♑22'29	
direct	10151 Jul 30 12:03	17°♏24'23		desc. node	10154 Jan 16 17:39	14°♑23'53	
desc. node	10151 Aug 02 02:31	17°♏32'23			10154 Jan 29 09:37	0°♋	
greatest brilliancy	10151 Aug 09 11:25	19°♏15'03	-4.8m		10154 Feb 22 17:53	0°♌	
	10151 Aug 27 23:47	0°♑			10154 Mar 19 02:14	0°♍	
morning max el	10151 Sep 18 03:02	18°♑36'39	46°11'59		10154 Apr 12 12:40	0°♎	
	10151 Sep 29 10:35	0°♏			10154 May 07 05:45	0°♏	
	10151 Oct 27 02:20	0°♐		asc. node	10154 May 09 15:17	2°♏52'49	
	10151 Nov 22 05:48	0°♏			10154 Jun 01 13:52	0°♑	
asc. node	10151 Nov 23 00:38	0°♏55'04			10154 Jun 28 07:28	0°♏	
	10151 Dec 17 14:01	0°♐		evening max el	10154 Jul 10 18:48	12°♏57'31	46°35'50
	10152 Jan 11 10:06	0°♑			10154 Jul 29 08:44	0°♐	
	10152 Feb 04 22:20	0°♑		greatest brilliancy	10154 Aug 18 17:09	12°♐49'07	-4.8m
	10152 Feb 29 05:15	0°♋		retrograde	10154 Aug 29 20:36	15°♐05'48	
desc. node	10152 Mar 13 17:20	16°♋46'20		desc. node	10154 Aug 29 13:27	15°♐05'41	
morning set	10152 Mar 15 06:28	18°♋41'51		evening set	10154 Sep 14 05:46	10°♐28'30	
	10152 Mar 24 08:07	0°♌		min. Earth dist.	10154 Sep 19 07:08	7°♐26'51	0.28255 AU
	10152 Apr 17 07:40	0°♍		inferior conj	10154 Sep 20 03:14	6°♐55'35	-5°02'09
max. Earth dist.	10152 Apr 22 10:17	6°♍24'31	1.71433 AU	minimum elong	10154 Sep 19 17:41	7°♐10'27	4°59'44
				morning rise	10154 Sep 25 06:17	3°♐50'18	
superior conj	10152 Apr 24 13:06	9°♍04'00	-1°20'34		10154 Oct 03 23:03	30°♑♏	
minimum elong	10152 Apr 24 04:20	8°♍36'30	1°20'38	direct	10154 Oct 11 08:26	28°♏55'16	
	10152 May 11 05:04	0°♎			10154 Oct 18 23:44	0°♐	
evening rise	10152 Jun 03 22:03	29°♎46'56		greatest brilliancy	10154 Oct 20 21:22	0°♐34'42	-4.7m
	10152 Jun 04 02:13	0°♏		morning max el	10154 Nov 29 02:04	28°♐45'44	45°41'53
	10152 Jun 28 01:17	0°♑			10154 Nov 30 08:55	0°♏	
asc. node	10152 Jul 04 12:35	8°♑04'20		asc. node	10154 Dec 20 12:39	20°♏40'14	
	10152 Jul 22 04:11	0°♏			10154 Dec 29 02:03	0°♐	
	10152 Aug 15 12:51	0°♐			10155 Jan 24 10:08	0°♑	
	10152 Sep 09 06:13	0°♏			10155 Feb 18 16:48	0°♑	
	10152 Oct 04 13:50	0°♐			10155 Mar 15 09:33	0°♋	
desc. node	10152 Oct 24 08:47	22°♐40'42			10155 Apr 08 17:42	0°♌	
	10152 Oct 30 22:22	0°♑		desc. node	10155 Apr 11 06:24	3°♏08'08	
	10152 Nov 28 11:03	0°♑			10155 May 02 20:04	0°♍	
evening max el	10152 Dec 02 04:42	3°♑37'25	45°49'22		10155 May 26 18:54	0°♎	
	10153 Jan 05 16:35	0°♋		morning set	10155 May 30 21:56	5°♎10'44	
greatest brilliancy	10153 Jan 10 07:30	1°♋52'23	-4.8m		10155 Jun 19 16:27	0°♏	
retrograde	10153 Jan 20 01:19	3°♋36'03					
	10153 Feb 02 13:44	30°♑♑		superior conj	10155 Jul 09 20:26	25°♏17'16	-0°52'47
evening set	10153 Feb 03 22:02	29°♑17'25		minimum elong	10155 Jul 10 07:23	25°♏51'33	0°52'45
inferior conj	10153 Feb 10 01:32	25°♑38'04	-1°04'55	max. Earth dist.	10155 Jul 12 15:15	28°♏46'23	1.71635 AU
minimum elong	10153 Feb 10 03:59	25°♑34'16	1°03'52		10155 Jul 13 14:46	0°♑	
min. Earth dist.	10153 Feb 10 13:59	25°♑18'44	0.27887 AU	asc. node	10155 Aug 02 01:05	24°♑16'41	
asc. node	10153 Feb 14 09:07	23°♑00'18			10155 Aug 06 15:17	0°♏	
morning rise	10153 Feb 16 09:24	21°♑52'02		evening rise	10155 Aug 18 06:22	14°♏28'04	
direct	10153 Mar 03 04:59	17°♑32'37			10155 Aug 30 18:50	0°♐	
greatest brilliancy	10153 Mar 14 00:11	19°♑43'43	-4.8m		10155 Sep 24 02:21	0°♏	
	10153 Mar 31 05:24	0°♋			10155 Oct 18 15:29	0°♐	
morning max el	10153 Apr 22 13:01	20°♋07'23	46°46'47		10155 Nov 12 12:39	0°♑	
	10153 May 02 02:23	0°♌		desc. node	10155 Nov 21 19:50	11°♑04'53	
	10153 May 29 00:33	0°♍			10155 Dec 07 21:02	0°♑	

	10156 Jan 02 21:44	0° H			10158 Jul 28 04:43	0° Ω	
	10156 Jan 30 04:48	0° Υ		morning set	10158 Aug 12 17:03	19° Ω 18'23	
evening max el	10156 Feb 13 03:23	14° Υ 15'41	46°22'43		10158 Aug 21 07:28	0° H	
	10156 Mar 01 08:53	0° B		asc. node	10158 Aug 29 13:54	10° H 16'07	
asc. node	10156 Mar 13 19:57	9° B 06'31			10158 Sep 14 11:41	0° Ω	
greatest brilliancy	10156 Mar 24 06:25	14° B 16'39	-4.9m				
retrograde	10156 Apr 02 23:48	16° B 03'19		superior conj	10158 Sep 20 00:43	6° Ω 52'12	0°48'59
evening set	10156 Apr 19 20:56	10° B 34'28		minimum elong	10158 Sep 19 15:30	6° Ω 23'37	0°48'37
inferior conj	10156 Apr 23 16:48	8° B 15'06	8°23'57	max. Earth dist.	10158 Sep 21 22:45	9° Ω 14'44	1.72770 AU
minimum elong	10156 Apr 23 08:15	8° B 28'18	8°22'33		10158 Oct 08 17:23	0° H	
min. Earth dist.	10156 Apr 23 15:12	8° B 17'34	0.27219 AU	evening rise	10158 Oct 26 22:04	22° H 27'33	
morning rise	10156 Apr 26 19:31	6° B 20'48			10158 Nov 02 01:03	0° H	
direct	10156 May 14 10:00	0° B 23'32			10158 Nov 26 11:38	0° B	
greatest brilliancy	10156 May 24 04:42	2° B 11'29	-4.9m	desc. node	10158 Dec 19 07:27	27° B 50'32	
	10156 Jun 30 17:01	0° H			10158 Dec 21 02:03	0° \approx	
desc. node	10156 Jul 03 17:24	2° H 59'35			10159 Jan 14 20:36	0° H	
morning max el	10156 Jul 03 20:10	3° H 06'31	46°54'45		10159 Feb 08 19:50	0° Υ	
	10156 Jul 29 00:44	0° Ω			10159 Mar 06 02:54	0° B	
	10156 Aug 24 05:46	0° Ω			10159 Apr 01 03:55	0° H	
	10156 Sep 18 16:12	0° H		asc. node	10159 Apr 11 06:24	11° H 10'59	
	10156 Oct 13 17:25	0° Ω		evening max el	10159 Apr 27 03:33	27° H 52'33	46°54'11
asc. node	10156 Oct 24 13:56	13° Ω 06'00			10159 Apr 29 06:38	0° Ω	
	10156 Nov 07 12:18	0° H		greatest brilliancy	10159 Jun 06 14:15	28° Ω 45'45	-4.9m
	10156 Dec 02 02:04	0° H			10159 Jun 10 19:20	0° Ω	
	10156 Dec 26 11:56	0° B		retrograde	10159 Jun 16 14:34	0° Ω 39'32	
morning set	10156 Dec 31 20:46	6° B 37'04			10159 Jun 22 06:16	30° B	
	10157 Jan 19 19:09	0° \approx		evening set	10159 Jul 02 16:51	25° Ω 35'45	
max. Earth dist.	10157 Feb 04 22:04	19° \approx 57'37	1.72608 AU	inferior conj	10159 Jul 07 08:18	22° Ω 48'59	5°54'59
				minimum elong	10159 Jul 07 19:12	22° Ω 32'17	5°51'50
superior conj	10157 Feb 07 11:27	23° \approx 07'53	0°14'00	min. Earth dist.	10159 Jul 07 11:40	22° Ω 43'50	0.27148 AU
minimum elong	10157 Feb 07 14:46	23° \approx 18'10	0°14'08	morning rise	10159 Jul 12 21:43	19° Ω 31'52	
behind sun begin	10157 Feb 07 03:14	22° \approx 42'25		direct	10159 Jul 28 01:39	15° Ω 01'31	
behind sun end	10157 Feb 08 02:18	23° \approx 53'55		desc. node	10159 Aug 01 04:33	15° Ω 21'27	
desc. node	10157 Feb 13 06:22	0° H 18'37		greatest brilliancy	10159 Aug 06 23:50	16° Ω 51'50	-4.8m
	10157 Feb 13 00:21	0° H			10159 Aug 28 13:24	0° Ω	
	10157 Mar 09 03:33	0° Υ		morning max el	10159 Sep 15 18:04	16° Ω 20'56	46°13'31
evening rise	10157 Mar 18 10:14	11° Υ 33'40			10159 Sep 29 05:28	0° H	
	10157 Apr 02 04:51	0° B			10159 Oct 26 16:54	0° Ω	
	10157 Apr 26 05:13	0° H			10159 Nov 21 18:29	0° H	
	10157 May 20 06:55	0° Ω		asc. node	10159 Nov 22 02:32	0° H 23'33	
asc. node	10157 Jun 06 02:39	20° Ω 50'33			10159 Dec 17 01:45	0° H	
	10157 Jun 13 13:02	0° Ω			10160 Jan 10 21:19	0° B	
	10157 Jul 08 03:39	0° H			10160 Feb 04 09:16	0° \approx	
	10157 Aug 02 09:14	0° Ω			10160 Feb 28 16:03	0° H	
	10157 Aug 28 20:04	0° H		morning set	10160 Mar 12 19:15	16° H 18'52	
evening max el	10157 Sep 19 12:55	22° H 33'55	45°56'49	desc. node	10160 Mar 12 19:13	16° H 18'47	
desc. node	10157 Sep 26 00:07	28° H 42'09			10160 Mar 23 18:51	0° Υ	
	10157 Sep 27 10:08	0° H			10160 Apr 16 18:23	0° B	
greatest brilliancy	10157 Oct 28 14:16	21° H 16'53	-4.7m	max. Earth dist.	10160 Apr 19 19:15	3° B 48'25	1.71457 AU
retrograde	10157 Nov 07 17:34	23° H 09'26					
evening set	10157 Nov 25 23:55	16° H 55'05		superior conj	10160 Apr 22 00:30	6° B 35'27	-1°18'56
inferior conj	10157 Nov 29 06:36	14° H 52'54	-8°29'07	minimum elong	10160 Apr 21 15:04	6° B 05'52	1°18'58
minimum elong	10157 Nov 29 10:53	14° H 46'10	8°28'25		10160 May 10 15:50	0° H	
min. Earth dist.	10157 Nov 29 11:56	14° H 44'30	0.29093 AU	evening rise	10160 Jun 01 08:52	27° H 16'17	
morning rise	10157 Dec 02 21:47	12° H 37'36			10160 Jun 03 13:03	0° Ω	
direct	10157 Dec 20 17:52	6° H 35'27			10160 Jun 27 12:12	0° Ω	
greatest brilliancy	10157 Dec 31 10:59	8° H 40'19	-4.8m	asc. node	10160 Jul 03 14:37	7° Ω 36'36	
asc. node	10158 Jan 17 00:07	18° H 09'47			10160 Jul 21 15:14	0° H	
	10158 Jan 31 04:21	0° B			10160 Aug 15 00:08	0° Ω	
morning max el	10158 Feb 08 02:48	7° B 32'20	46°00'59		10160 Sep 08 18:03	0° H	
	10158 Mar 01 14:09	0° \approx			10160 Oct 04 02:44	0° H	
	10158 Mar 27 23:05	0° H		desc. node	10160 Oct 23 10:39	22° H 05'29	
	10158 Apr 22 03:50	0° Υ			10160 Oct 30 13:33	0° B	
desc. node	10158 May 08 19:09	20° Υ 14'06			10160 Nov 28 08:32	0° \approx	
	10158 May 16 18:08	0° B		evening max el	10160 Nov 29 20:08	1° \approx 25'39	45°48'37
	10158 Jun 10 00:25	0° H		greatest brilliancy	10161 Jan 07 22:15	29° \approx 37'28	-4.8m
	10158 Jul 04 02:56	0° Ω			10161 Jan 09 02:25	0° H	

retrograde	10161 Jan 17 15:22	1° K 20'11		superior conj	10163 Jul 07 08:39	22° G 52'02	-0°55'48
	10161 Jan 25 19:47	30° R		minimum elong	10163 Jul 07 19:53	23° G 27'12	0°55'47
evening set	10161 Feb 01 14:06	26° \approx 59'42		max. Earth dist.	10163 Jul 09 23:41	26° G 09'23	1.71598 AU
inferior conj	10161 Feb 07 16:11	23° \approx 21'51	-1°26'50		10163 Jul 13 01:22	0° Ω	
minimum elong	10161 Feb 07 19:26	23° \approx 16'47	1°25'31	asc. node	10163 Aug 01 03:01	23° Ω 49'41	
min. Earth dist.	10161 Feb 08 05:15	23° \approx 01'31	0.27931 AU		10163 Aug 06 01:52	0° M	
asc. node	10161 Feb 13 11:10	19° \approx 53'09		evening rise	10163 Aug 15 20:43	12° M 10'30	
morning rise	10161 Feb 14 00:15	19° \approx 35'09			10163 Aug 30 05:28	0° $\underline{\text{A}}$	
direct	10161 Feb 28 20:14	15° \approx 16'01			10163 Sep 23 13:08	0° M	
greatest brilliancy	10161 Mar 11 15:38	17° \approx 26'57	-4.8m		10163 Oct 18 02:32	0° X	
	10161 Mar 31 18:03	0° K			10163 Nov 12 00:14	0° Z	
morning max el	10161 Apr 20 02:58	17° K 46'59	46°45'27	desc. node	10163 Nov 20 21:51	10° Z 35'39	
	10161 May 01 21:07	0° Y			10163 Dec 07 09:35	0° \approx	
	10161 May 28 15:16	0° B			10164 Jan 02 12:08	0° K	
desc. node	10161 Jun 05 07:41	8° B 58'19			10164 Jan 29 23:26	0° Y	
	10161 Jun 23 00:09	0° II		evening max el	10164 Feb 10 16:01	11° Y 52'57	46°21'08
	10161 Jul 17 18:43	0° G			10164 Mar 01 20:52	0° B	
	10161 Aug 11 07:21	0° Ω		asc. node	10164 Mar 12 21:50	7° B 38'38	
asc. node	10161 Sep 04 17:51	0° M		greatest brilliancy	10164 Mar 21 19:09	11° B 52'32	-4.9m
	10161 Sep 26 02:53	26° M 16'56		retrograde	10164 Mar 31 12:34	13° B 39'36	
	10161 Sep 29 03:25	0° $\underline{\text{A}}$		evening set	10164 Apr 17 05:22	8° B 16'57	
morning set	10161 Oct 22 00:03	28° $\underline{\text{A}}$ 09'06		inferior conj	10164 Apr 21 05:51	5° B 51'06	8°13'20
	10161 Oct 23 12:04	0° M		minimum elong	10164 Apr 20 20:43	6° B 05'12	8°11'47
	10161 Nov 16 19:55	0° X		min. Earth dist.	10164 Apr 21 04:17	5° B 53'32	0.27230 AU
				morning rise	10164 Apr 24 11:57	3° B 51'53	
superior conj	10161 Nov 27 16:52	13° X 24'40	1°24'33		10164 May 02 00:39	30° R Y	
minimum elong	10161 Nov 27 20:25	13° X 35'35	1°24'57	direct	10164 May 11 22:50	27° Y 58'56	
max. Earth dist.	10161 Nov 27 20:54	13° X 37'06	1.73241 AU	greatest brilliancy	10164 May 21 18:49	29° Y 48'07	-4.9m
	10161 Dec 11 03:38	0° Z			10164 May 22 07:53	0° B	
evening rise	10162 Jan 03 20:12	29° Z 11'54			10164 Jun 30 16:23	0° II	
	10162 Jan 04 11:48	0° \approx		morning max el	10164 Jul 01 09:37	0° II 43'08	46°55'39
desc. node	10162 Jan 15 19:42	13° \approx 57'23		desc. node	10164 Jul 02 19:27	2° II 08'27	
	10162 Jan 28 20:23	0° K			10164 Jul 28 17:01	0° G	
	10162 Feb 22 04:56	0° Y			10164 Aug 23 19:25	0° Ω	
	10162 Mar 18 13:40	0° B			10164 Sep 18 04:30	0° M	
	10162 Apr 12 00:40	0° II			10164 Oct 13 04:54	0° $\underline{\text{A}}$	
	10162 May 06 18:39	0° G		asc. node	10164 Oct 23 15:48	12° $\underline{\text{A}}$ 37'42	
asc. node	10162 May 08 17:13	2° G 19'38			10164 Nov 06 23:17	0° M	
	10162 Jun 01 04:27	0° Ω			10164 Dec 01 12:44	0° X	
	10162 Jun 28 01:57	0° M			10164 Dec 25 22:26	0° Z	
evening max el	10162 Jul 08 09:17	10° M 39'01	46°37'05	morning set	10164 Dec 29 13:53	4° Z 29'29	
	10162 Jul 29 20:22	0° $\underline{\text{A}}$			10165 Jan 19 05:35	0° \approx	
greatest brilliancy	10162 Aug 16 09:39	10° $\underline{\text{A}}$ 35'28	-4.8m	max. Earth dist.	10165 Feb 02 18:02	17° \approx 58'20	1.72647 AU
retrograde	10162 Aug 27 11:36	12° $\underline{\text{A}}$ 51'01					
desc. node	10162 Aug 28 15:29	12° $\underline{\text{A}}$ 49'25		superior conj	10165 Feb 05 02:32	20° \approx 53'25	0°17'27
evening set	10162 Sep 11 18:54	8° $\underline{\text{A}}$ 17'20		minimum elong	10165 Feb 05 06:37	21° \approx 06'04	0°17'33
min. Earth dist.	10162 Sep 16 22:43	5° $\underline{\text{A}}$ 12'21	0.28197 AU	desc. node	10165 Feb 12 08:13	29° \approx 51'54	
inferior conj	10162 Sep 17 18:19	4° $\underline{\text{A}}$ 41'50	-4°44'32		10165 Feb 12 10:50	0° K	
minimum elong	10162 Sep 17 09:05	4° $\underline{\text{A}}$ 56'13	4°42'09		10165 Mar 08 14:10	0° Y	
morning rise	10162 Sep 22 23:55	1° $\underline{\text{A}}$ 32'47		evening rise	10165 Mar 16 00:02	9° Y 13'53	
	10162 Sep 25 22:13	30° R M			10165 Apr 01 15:38	0° B	
direct	10162 Oct 08 22:45	26° M 42'24			10165 Apr 25 16:13	0° II	
greatest brilliancy	10162 Oct 18 12:08	28° M 21'49	-4.8m		10165 May 19 18:11	0° G	
	10162 Oct 22 15:55	0° $\underline{\text{A}}$		asc. node	10165 Jun 05 04:40	20° G 21'10	
morning max el	10162 Nov 26 15:26	26° $\underline{\text{A}}$ 29'41	45°42'12		10165 Jun 13 00:43	0° Ω	
	10162 Nov 30 06:06	0° M			10165 Jul 07 16:01	0° M	
asc. node	10162 Dec 19 14:44	20° M 02'04			10165 Aug 01 22:51	0° $\underline{\text{A}}$	
	10162 Dec 28 17:04	0° X			10165 Aug 28 12:31	0° M	
	10163 Jan 23 22:59	0° Z		evening max el	10165 Sep 17 04:22	20° M 21'50	45°58'00
	10163 Feb 18 04:39	0° \approx		desc. node	10165 Sep 25 02:01	27° M 49'13	
	10163 Mar 14 20:53	0° K			10165 Sep 27 12:18	0° X	
	10163 Apr 08 04:45	0° Y		greatest brilliancy	10165 Oct 26 04:32	19° X 05'56	-4.7m
desc. node	10163 Apr 10 08:14	2° Y 39'40		retrograde	10165 Nov 05 10:14	21° X 00'28	
	10163 May 02 06:56	0° B		evening set	10165 Nov 23 16:59	14° X 44'07	
	10163 May 26 05:39	0° II		inferior conj	10165 Nov 26 22:47	12° X 43'20	-8°32'55
morning set	10163 May 28 08:54	2° II 40'48		minimum elong	10165 Nov 27 02:21	12° X 37'44	8°32'19
	10163 Jun 19 03:07	0° G		min. Earth dist.	10165 Nov 27 02:37	12° X 37'19	0.29102 AU

morning rise	10165 Nov 30 11:42	10° \nearrow 31'42		asc. node	10168 Jul 02 16:32	7° Ω 08'17	
direct	10165 Dec 18 10:20	4° \nearrow 26'00			10168 Jul 21 02:24	0° \cap	
greatest brilliancy	10165 Dec 29 01:58	6° \nearrow 29'55	-4.7m		10168 Aug 14 11:38	0° $\underline{\Omega}$	
asc. node	10166 Jan 16 02:04	17° \nearrow 03'02			10168 Sep 08 06:07	0° \cap	
	10166 Jan 31 04:53	0° $\overline{\Omega}$			10168 Oct 03 15:56	0° \nearrow	
morning max el	10166 Feb 05 19:14	5° $\overline{\Omega}$ 22'11	45°59'42	desc. node	10168 Oct 22 12:44	21° \nearrow 30'02	
	10166 Mar 01 06:12	0° \approx			10168 Oct 30 05:10	0° $\overline{\Omega}$	
	10166 Mar 27 12:32	0° \times		evening max el	10168 Nov 27 10:44	29° $\overline{\Omega}$ 11'32	45°48'07
	10166 Apr 21 16:08	0° Υ			10168 Nov 28 07:03	0° \approx	
desc. node	10166 May 07 21:09	19° Υ 44'01		greatest brilliancy	10169 Jan 05 13:38	27° \approx 23'20	-4.8m
	10166 May 16 05:48	0° $\overline{\Omega}$		retrograde	10169 Jan 15 05:14	29° \approx 04'47	
	10166 Jun 09 11:43	0° Π		evening set	10169 Jan 30 06:30	24° \approx 42'00	
	10166 Jul 03 13:58	0° $\overline{\Omega}$		inferior conj	10169 Feb 05 07:04	21° \approx 06'05	-1°48'20
	10166 Jul 27 15:34	0° Ω		minimum elong	10169 Feb 05 11:05	20° \approx 59'48	1°46'46
morning set	10166 Aug 10 07:19	17° Ω 00'03		min. Earth dist.	10169 Feb 05 21:00	20° \approx 44'20	0.27974 AU
	10166 Aug 20 18:09	0° \cap		morning rise	10169 Feb 11 15:05	17° \approx 18'52	
asc. node	10166 Aug 28 15:43	9° \cap 48'46		asc. node	10169 Feb 12 13:05	16° \approx 49'29	
	10166 Sep 13 22:15	0° $\underline{\Omega}$		direct	10169 Feb 26 11:11	12° \approx 59'37	
				greatest brilliancy	10169 Mar 09 07:46	15° \approx 11'00	-4.8m
superior conj	10166 Sep 17 16:28	4° $\underline{\Omega}$ 39'34	0°46'06		10169 Apr 01 03:29	0° \times	
minimum elong	10166 Sep 17 07:32	4° $\underline{\Omega}$ 11'53	0°45'44	morning max el	10169 Apr 17 16:38	15° \times 25'36	46°44'14
max. Earth dist.	10166 Sep 19 17:31	7° $\underline{\Omega}$ 11'31	1.72736 AU		10169 May 01 15:27	0° Υ	
	10166 Oct 08 03:55	0° \cap			10169 May 28 05:53	0° $\overline{\Omega}$	
evening rise	10166 Oct 24 15:10	20° \cap 19'46		desc. node	10169 Jun 04 09:40	8° $\overline{\Omega}$ 22'51	
	10166 Nov 01 11:38	0° \nearrow			10169 Jun 22 13:09	0° Π	
	10166 Nov 25 22:25	0° $\overline{\Omega}$			10169 Jul 17 06:50	0° $\overline{\Omega}$	
desc. node	10166 Dec 18 09:29	27° $\overline{\Omega}$ 23'01			10169 Aug 10 18:55	0° Ω	
	10166 Dec 20 13:10	0° \approx			10169 Sep 04 05:03	0° \cap	
	10167 Jan 14 08:13	0° \times		asc. node	10169 Sep 25 04:48	25° \cap 49'09	
	10167 Feb 08 08:15	0° Υ			10169 Sep 28 14:21	0° $\underline{\Omega}$	
	10167 Mar 05 16:38	0° $\overline{\Omega}$		morning set	10169 Oct 19 16:42	25° $\underline{\Omega}$ 59'19	
	10167 Mar 31 20:18	0° Π			10169 Oct 22 22:49	0° \cap	
asc. node	10167 Apr 10 08:22	10° Π 27'10			10169 Nov 16 06:36	0° \nearrow	
evening max el	10167 Apr 24 18:05	25° Π 32'09	46°53'41				
	10167 Apr 29 06:29	0° $\overline{\Omega}$		superior conj	10169 Nov 25 10:14	11° \nearrow 17'20	1°25'06
greatest brilliancy	10167 Jun 04 03:56	26° $\overline{\Omega}$ 22'08	-4.9m	minimum elong	10169 Nov 25 13:04	11° \nearrow 26'06	1°25'31
retrograde	10167 Jun 14 04:19	28° $\overline{\Omega}$ 15'26		max. Earth dist.	10169 Nov 25 13:47	11° \nearrow 28'18	1.73240 AU
evening set	10167 Jun 30 09:24	23° $\overline{\Omega}$ 07'04			10169 Dec 10 14:20	0° $\overline{\Omega}$	
inferior conj	10167 Jul 04 21:17	20° $\overline{\Omega}$ 25'05	6°13'08	evening rise	10170 Jan 01 12:15	27° $\overline{\Omega}$ 00'20	
minimum elong	10167 Jul 05 08:22	20° $\overline{\Omega}$ 08'06	6°10'03		10170 Jan 03 22:36	0° \approx	
min. Earth dist.	10167 Jul 05 00:48	20° $\overline{\Omega}$ 19'42	0.27142 AU	desc. node	10170 Jan 14 21:31	13° \approx 29'30	
morning rise	10167 Jul 10 07:32	17° $\overline{\Omega}$ 12'23			10170 Jan 28 07:22	0° \times	
direct	10167 Jul 25 15:09	12° $\overline{\Omega}$ 37'52			10170 Feb 21 16:13	0° Υ	
desc. node	10167 Jul 31 06:30	13° $\overline{\Omega}$ 14'51			10170 Mar 18 01:23	0° $\overline{\Omega}$	
greatest brilliancy	10167 Aug 04 12:01	14° $\overline{\Omega}$ 27'19	-4.8m		10170 Apr 11 12:59	0° Π	
	10167 Aug 28 23:48	0° Ω			10170 May 06 07:54	0° $\overline{\Omega}$	
morning max el	10167 Sep 13 08:25	14° Ω 02'47	46°15'04	asc. node	10170 May 07 19:18	1° $\overline{\Omega}$ 45'57	
	10167 Sep 29 00:02	0° \cap			10170 May 31 19:25	0° Ω	
	10167 Oct 26 07:22	0° $\underline{\Omega}$			10170 Jun 27 21:08	0° \cap	
asc. node	10167 Nov 21 04:36	29° $\underline{\Omega}$ 52'33		evening max el	10170 Jul 05 23:01	8° \cap 18'04	46°38'19
	10167 Nov 21 07:08	0° \cap			10170 Jul 30 12:22	0° $\underline{\Omega}$	
	10167 Dec 16 13:26	0° \nearrow		greatest brilliancy	10170 Aug 14 01:52	8° $\underline{\Omega}$ 20'40	-4.8m
	10168 Jan 10 08:30	0° $\overline{\Omega}$		retrograde	10170 Aug 25 02:34	10° $\underline{\Omega}$ 35'37	
	10168 Feb 03 20:11	0° \approx		desc. node	10170 Aug 27 17:20	10° $\underline{\Omega}$ 27'24	
	10168 Feb 28 02:51	0° \times		evening set	10170 Sep 09 08:09	6° $\underline{\Omega}$ 04'51	
morning set	10168 Mar 10 08:29	13° \times 57'18		min. Earth dist.	10170 Sep 14 14:24	2° $\underline{\Omega}$ 56'49	0.28146 AU
desc. node	10168 Mar 11 21:05	15° \times 51'09		inferior conj	10170 Sep 15 09:24	2° $\underline{\Omega}$ 27'15	-4°26'27
	10168 Mar 23 05:36	0° Υ		minimum elong	10170 Sep 15 00:32	2° $\underline{\Omega}$ 41'03	4°24'07
	10168 Apr 16 05:07	0° $\overline{\Omega}$			10170 Sep 19 09:56	30° \cap	
max. Earth dist.	10168 Apr 17 02:45	1° $\overline{\Omega}$ 07'50	1.71482 AU	morning rise	10170 Sep 20 17:30	29° \cap 14'37	
				direct	10170 Oct 06 12:46	24° \cap 28'21	
superior conj	10168 Apr 19 12:27	4° $\overline{\Omega}$ 08'42	-1°17'09	greatest brilliancy	10170 Oct 16 03:23	26° \cap 08'25	-4.8m
minimum elong	10168 Apr 19 02:27	3° $\overline{\Omega}$ 37'22	1°17'09		10170 Oct 24 16:39	0° $\underline{\Omega}$	
	10168 May 10 02:35	0° Π		morning max el	10170 Nov 24 05:26	24° $\underline{\Omega}$ 13'58	45°42'34
evening rise	10168 May 29 19:59	24° Π 46'33			10170 Nov 30 03:00	0° \cap	
	10168 Jun 02 23:53	0° $\overline{\Omega}$		asc. node	10170 Dec 18 16:38	19° \cap 22'39	
	10168 Jun 26 23:10	0° Ω			10170 Dec 28 08:17	0° \nearrow	

	10171 Jan 23 12:06	0° Z			10173 Aug 28 05:39	0° M	
	10171 Feb 17 16:45	0° \approx		evening max el	10173 Sep 14 20:35	18° M 10'44	45°59'13
	10171 Mar 14 08:28	0° X		desc. node	10173 Sep 24 04:06	26° M 54'50	
	10171 Apr 07 16:02	0° Y			10173 Sep 27 16:31	0° X	
desc. node	10171 Apr 09 10:10	2° Y 10'42		greatest brilliancy	10173 Oct 23 18:50	16° X 54'15	-4.7m
	10171 May 01 18:05	0° X		retrograde	10173 Nov 03 02:50	18° X 50'22	
morning set	10171 May 25 19:57	0° II 10'11		evening set	10173 Nov 21 09:45	12° X 32'48	
	10171 May 25 16:42	0° II		inferior conj	10173 Nov 24 14:56	10° X 32'49	-8°35'59
	10171 Jun 18 14:05	0° G		minimum elong	10173 Nov 24 17:45	10° X 28'23	8°35'28
				min. Earth dist.	10173 Nov 24 17:05	10° X 29'27	0.29110 AU
superior conj	10171 Jul 04 21:05	20° G 26'26	-0°58'41	morning rise	10173 Nov 28 01:47	8° X 24'22	
minimum elong	10171 Jul 05 08:32	21° G 02'18	0°58'42	direct	10173 Dec 16 03:03	2° X 15'48	
max. Earth dist.	10171 Jul 07 06:39	23° G 26'45	1.71562 AU	greatest brilliancy	10173 Dec 26 16:19	4° X 17'50	-4.7m
	10171 Jul 12 12:16	0° Ω		asc. node	10174 Jan 15 04:00	15° X 57'00	
asc. node	10171 Jul 31 04:51	23° Ω 21'30			10174 Jan 31 04:45	0° Z	
	10171 Aug 05 12:44	0° M		morning max el	10174 Feb 03 11:29	3° Z 10'34	45°58'16
evening rise	10171 Aug 13 11:14	9° M 52'38			10174 Feb 28 22:25	0° \approx	
	10171 Aug 29 16:24	0° L			10174 Mar 27 02:18	0° X	
	10171 Sep 23 00:14	0° M			10174 Apr 21 04:45	0° Y	
	10171 Oct 17 13:58	0° X		desc. node	10174 May 06 23:09	19° Y 13'01	
	10171 Nov 11 12:15	0° Z			10174 May 15 17:46	0° X	
desc. node	10171 Nov 19 23:48	10° Z 04'52			10174 Jun 08 23:16	0° II	
	10171 Dec 06 22:39	0° \approx			10174 Jul 03 01:15	0° G	
	10172 Jan 02 03:12	0° X			10174 Jul 27 02:40	0° Ω	
	10172 Jan 29 19:05	0° Y		morning set	10174 Aug 07 21:31	14° Ω 40'39	
evening max el	10172 Feb 08 05:35	9° Y 31'37	46°19'48		10174 Aug 20 05:07	0° M	
	10172 Mar 02 13:30	0° X		asc. node	10174 Aug 27 17:41	9° M 20'58	
asc. node	10172 Mar 11 23:51	6° X 06'57			10174 Sep 13 09:07	0° L	
greatest brilliancy	10172 Mar 19 07:22	9° X 27'09	-4.8m				
retrograde	10172 Mar 29 01:57	11° X 15'13		superior conj	10174 Sep 15 08:09	2° L 25'48	0°43'09
evening set	10172 Apr 14 13:55	5° X 58'31		minimum elong	10174 Sep 14 23:34	1° L 59'12	0°42'45
inferior conj	10172 Apr 18 18:57	3° X 26'15	8°01'55	max. Earth dist.	10174 Sep 17 12:34	5° L 08'13	1.72701 AU
minimum elong	10172 Apr 18 09:17	3° X 41'08	8°00'11		10174 Oct 07 14:43	0° M	
min. Earth dist.	10172 Apr 18 17:03	3° X 29'11	0.27240 AU	evening rise	10174 Oct 22 08:15	18° M 11'07	
morning rise	10172 Apr 22 04:34	1° X 22'02			10174 Oct 31 22:30	0° X	
	10172 Apr 24 13:44	30° K Y			10174 Nov 25 09:28	0° Z	
direct	10172 May 09 12:13	25° Y 33'36		desc. node	10174 Dec 17 11:21	26° Z 54'10	
greatest brilliancy	10172 May 19 08:26	27° Y 23'25	-4.9m		10174 Dec 20 00:34	0° \approx	
	10172 May 25 06:09	0° X			10175 Jan 13 20:11	0° X	
morning max el	10172 Jun 29 00:12	28° X 21'41	46°56'25		10175 Feb 07 21:05	0° Y	
	10172 Jun 30 15:09	0° II			10175 Mar 05 06:53	0° X	
desc. node	10172 Jul 01 21:18	1° II 16'48			10175 Mar 31 13:24	0° II	
	10172 Jul 28 09:22	0° G		asc. node	10175 Apr 09 10:27	9° II 41'55	
	10172 Aug 23 09:17	0° Ω		evening max el	10175 Apr 22 08:19	23° II 09'49	46°53'13
	10172 Sep 17 17:04	0° M			10175 Apr 29 07:58	0° G	
	10172 Oct 12 16:41	0° L		greatest brilliancy	10175 Jun 01 18:12	23° G 58'17	-4.9m
asc. node	10172 Oct 22 17:50	12° L 08'57		retrograde	10175 Jun 11 17:38	25° G 50'15	
	10172 Nov 06 10:35	0° M		evening set	10175 Jun 28 02:00	20° G 37'31	
	10172 Nov 30 23:44	0° X		inferior conj	10175 Jul 02 10:16	18° G 00'26	6°30'39
	10172 Dec 25 09:18	0° Z		minimum elong	10175 Jul 02 21:25	17° G 43'19	6°27'39
morning set	10172 Dec 27 06:49	2° Z 20'14		min. Earth dist.	10175 Jul 02 14:07	17° G 54'32	0.27133 AU
	10173 Jan 18 16:26	0° \approx		morning rise	10175 Jul 07 17:02	14° G 52'15	
max. Earth dist.	10173 Jan 31 13:01	15° \approx 54'43	1.72682 AU	direct	10175 Jul 23 04:14	10° G 13'31	
				desc. node	10175 Jul 30 08:29	11° G 12'34	
superior conj	10173 Feb 02 17:24	18° \approx 37'00	0°20'54	greatest brilliancy	10175 Aug 02 00:25	12° G 02'14	-4.8m
minimum elong	10173 Feb 02 22:12	18° \approx 51'54	0°21'00		10175 Aug 29 07:41	0° Ω	
desc. node	10173 Feb 11 10:07	29° \approx 23'57		morning max el	10175 Sep 10 21:49	11° Ω 41'35	46°16'36
	10173 Feb 11 21:44	0° X			10175 Sep 28 18:19	0° M	
	10173 Mar 08 01:10	0° Y			10175 Oct 25 21:51	0° L	
evening rise	10173 Mar 13 13:36	6° Y 52'18		asc. node	10175 Nov 20 06:26	29° L 20'33	
	10173 Apr 01 02:46	0° X			10175 Nov 20 19:52	0° M	
	10173 Apr 25 03:33	0° II			10175 Dec 16 01:14	0° X	
	10173 May 19 05:48	0° G			10176 Jan 09 19:48	0° Z	
asc. node	10173 Jun 04 06:34	19° G 50'16			10176 Feb 03 07:14	0° \approx	
	10173 Jun 12 12:47	0° Ω			10176 Feb 27 13:48	0° X	
	10173 Jul 07 04:48	0° M		morning set	10176 Mar 07 21:38	11° X 35'02	
	10173 Aug 01 12:58	0° L		desc. node	10176 Mar 10 23:05	15° X 23'26	

	10176 Mar 22 16:31	0°♿		minimum elong	10178 Sep 12 15:52	0°♎25'21	4°05'29
max. Earth dist.	10176 Apr 14 08:01	28°♿19'39	1.71513 AU		10178 Sep 13 08:12	30°♎	
	10176 Apr 15 16:03	0°♄		morning rise	10178 Sep 18 10:53	26°♎56'24	
				direct	10178 Oct 04 02:35	22°♎13'54	
superior conj	10176 Apr 17 00:08	1°♄40'32	-1°15'13	greatest brilliancy	10178 Oct 13 18:21	23°♎54'52	-4.8m
minimum elong	10176 Apr 16 13:40	1°♄07'44	1°15'09		10178 Oct 26 01:02	0°♎	
	10176 May 09 13:33	0°♈		morning max el	10178 Nov 21 20:11	22°♎00'34	45°42'59
evening rise	10176 May 27 06:38	22°♈14'43			10178 Nov 29 22:59	0°♎	
	10176 Jun 02 10:55	0°♄		asc. node	10178 Dec 17 18:33	18°♎44'20	
	10176 Jun 26 10:18	0°♊			10178 Dec 27 23:04	0°♄	
asc. node	10176 Jul 01 18:23	6°♊39'17			10179 Jan 23 00:53	0°♄	
	10176 Jul 20 13:41	0°♎			10179 Feb 17 04:35	0°♄	
	10176 Aug 13 23:15	0°♎			10179 Mar 13 19:46	0°♄	
	10176 Sep 07 18:21	0°♎			10179 Apr 07 03:03	0°♿	
	10176 Oct 03 05:21	0°♄		desc. node	10179 Apr 08 12:08	1°♿42'40	
desc. node	10176 Oct 21 14:42	20°♄53'48			10179 May 01 04:56	0°♄	
	10176 Oct 29 21:09	0°♄		morning set	10179 May 23 07:05	27°♄40'41	
evening max el	10176 Nov 25 00:40	26°♄55'42	45°47'42		10179 May 25 03:28	0°♈	
	10176 Nov 28 06:39	0°♄			10179 Jun 18 00:47	0°♄	
greatest brilliancy	10177 Jan 03 04:58	25°♄09'15	-4.8m				
retrograde	10177 Jan 12 19:06	26°♄49'50		superior conj	10179 Jul 02 09:15	18°♄00'39	-1°01'30
evening set	10177 Jan 27 23:02	22°♄24'12		minimum elong	10179 Jul 02 20:50	18°♄36'57	1°01'31
inferior conj	10177 Feb 02 22:00	18°♄50'39	-2°09'27	max. Earth dist.	10179 Jul 04 14:27	20°♄47'24	1.71535 AU
minimum elong	10177 Feb 03 02:46	18°♄43'13	2°07'41		10179 Jul 11 22:56	0°♊	
min. Earth dist.	10177 Feb 03 12:56	18°♄27'21	0.28021 AU	asc. node	10179 Jul 30 06:51	22°♊54'26	
morning rise	10177 Feb 09 05:48	15°♄03'19			10179 Aug 04 23:25	0°♎	
asc. node	10177 Feb 11 15:05	13°♄49'28		evening rise	10179 Aug 11 01:20	7°♎34'03	
direct	10177 Feb 24 01:56	10°♄43'21			10179 Aug 29 03:08	0°♎	
greatest brilliancy	10177 Mar 07 00:22	12°♄55'58	-4.8m		10179 Sep 22 11:07	0°♎	
	10177 Apr 01 10:16	0°♄			10179 Oct 17 01:09	0°♄	
morning max el	10177 Apr 15 06:24	13°♄04'26	46°42'52		10179 Nov 11 00:02	0°♄	
	10177 May 01 09:24	0°♿		desc. node	10179 Nov 19 01:42	9°♄34'41	
	10177 May 27 20:26	0°♄			10179 Dec 06 11:31	0°♄	
desc. node	10177 Jun 03 11:30	7°♄46'55			10180 Jan 01 18:09	0°♄	
	10177 Jun 22 02:10	0°♈			10180 Jan 29 14:59	0°♿	
	10177 Jul 16 19:00	0°♄		evening max el	10180 Feb 05 20:16	7°♿14'12	46°18'27
	10177 Aug 10 06:31	0°♊			10180 Mar 03 11:15	0°♄	
	10177 Sep 03 16:13	0°♎		asc. node	10180 Mar 11 01:55	4°♄33'16	
asc. node	10177 Sep 24 06:46	25°♎21'40		greatest brilliancy	10180 Mar 16 19:29	7°♄03'04	-4.8m
	10177 Sep 28 01:12	0°♎		retrograde	10180 Mar 26 15:42	8°♄52'09	
morning set	10177 Oct 17 09:09	23°♎49'05		evening set	10180 Apr 11 22:43	3°♄41'32	
	10177 Oct 22 09:30	0°♎		inferior conj	10180 Apr 16 08:07	1°♄02'52	7°49'43
	10177 Nov 15 17:13	0°♄		minimum elong	10180 Apr 15 22:01	1°♄18'25	7°47'48
				min. Earth dist.	10180 Apr 16 05:45	1°♄06'31	0.27247 AU
superior conj	10177 Nov 23 03:36	9°♄10'12	1°25'33		10180 Apr 18 01:05	30°♎	
minimum elong	10177 Nov 23 05:45	9°♄16'49	1°25'57	morning rise	10180 Apr 19 21:17	28°♎53'32	
max. Earth dist.	10177 Nov 23 06:49	9°♄20'06	1.73241 AU	direct	10180 May 07 02:04	23°♎10'04	
	10177 Dec 10 00:58	0°♄		greatest brilliancy	10180 May 16 21:38	24°♎59'45	-4.9m
evening rise	10177 Dec 30 04:30	24°♄49'37			10180 May 26 23:38	0°♄	
	10178 Jan 03 09:20	0°♄		morning max el	10180 Jun 26 15:02	26°♄02'17	46°57'00
desc. node	10178 Jan 13 23:26	13°♄02'10		desc. node	10180 Jun 30 23:20	0°♈27'56	
	10178 Jan 27 18:17	0°♄			10180 Jun 30 12:30	0°♈	
	10178 Feb 21 03:25	0°♿			10180 Jul 28 01:00	0°♄	
	10178 Mar 17 13:01	0°♄			10180 Aug 22 22:40	0°♊	
	10178 Apr 11 01:14	0°♈			10180 Sep 17 05:14	0°♎	
	10178 May 05 21:09	0°♄			10180 Oct 12 04:07	0°♎	
asc. node	10178 May 06 21:09	1°♄11'42		asc. node	10180 Oct 21 19:41	11°♎40'36	
	10178 May 31 10:33	0°♊			10180 Nov 05 21:31	0°♎	
	10178 Jun 27 16:54	0°♎			10180 Nov 30 10:22	0°♄	
evening max el	10178 Jul 03 12:47	5°♎57'08	46°39'37	morning set	10180 Dec 24 23:46	0°♄12'19	
	10178 Jul 31 10:05	0°♎			10180 Dec 24 19:47	0°♄	
greatest brilliancy	10178 Aug 11 17:35	6°♎04'53	-4.8m		10181 Jan 18 02:53	0°♄	
retrograde	10178 Aug 22 17:47	8°♎19'56		max. Earth dist.	10181 Jan 29 06:46	13°♄48'37	1.72717 AU
desc. node	10178 Aug 26 19:26	7°♎59'51					
evening set	10178 Sep 06 21:23	3°♎51'34		superior conj	10181 Jan 31 08:25	16°♄22'21	0°24'17
min. Earth dist.	10178 Sep 12 05:47	0°♎41'00	0.28092 AU	minimum elong	10181 Jan 31 13:55	16°♄39'23	0°24'23
inferior conj	10178 Sep 13 00:18	0°♎12'16	-4°07'46	desc. node	10181 Feb 10 12:07	28°♄57'30	

	10181 Feb 11 08:16	0° H			10183 Sep 28 11:38	0° M		
	10181 Mar 07 11:49	0° Y			10183 Oct 25 11:41	0° L		
evening rise	10181 Mar 11 03:21	4° Y 32'27		asc. node	10183 Nov 19 08:20	28° L 50'03		
	10181 Mar 31 13:33	0° B			10183 Nov 20 08:07	0° M		
	10181 Apr 24 14:31	0° II			10183 Dec 15 12:39	0° J		
	10181 May 18 17:01	0° G			10184 Jan 09 06:46	0° Z		
asc. node	10181 Jun 03 08:30	19° G 20'52			10184 Feb 02 17:59	0° \approx		
	10181 Jun 12 00:25	0° Q			10184 Feb 27 00:25	0° H		
	10181 Jul 06 17:10	0° M		morning set	10184 Mar 05 10:56	9° H 14'13		
	10181 Aug 01 02:44	0° L		desc. node	10184 Mar 10 00:57	14° H 56'15		
	10181 Aug 27 22:40	0° M			10184 Mar 22 03:06	0° Y		
evening max el	10181 Sep 12 13:06	16° M 01'21	46°00'16	max. Earth dist.	10184 Apr 11 15:04	25° Y 38'05	1.71550 AU	
desc. node	10181 Sep 23 06:05	26° M 00'11						
	10181 Sep 27 22:10	0° J		superior conj	10184 Apr 14 11:54	29° Y 13'44	-1°13'09	
greatest brilliancy	10181 Oct 21 09:52	14° J 44'28	-4.7m	minimum elong	10184 Apr 14 01:01	28° Y 39'39	1°13'02	
retrograde	10181 Oct 31 19:08	16° J 41'20			10184 Apr 15 02:40	0° B		
evening set	10181 Nov 19 02:18	10° J 23'21			10184 May 09 00:15	0° II		
inferior conj	10181 Nov 22 07:10	8° J 23'39	-8°38'23	evening rise	10184 May 24 17:24	19° II 44'08		
minimum elong	10181 Nov 22 09:14	8° J 20'24	8°37'55		10184 Jun 01 21:42	0° G		
min. Earth dist.	10181 Nov 22 07:50	8° J 22'35	0.29112 AU		10184 Jun 25 21:11	0° Q		
morning rise	10181 Nov 25 16:12	6° J 17'49		asc. node	10184 Jun 30 20:24	6° Q 11'35		
direct	10181 Dec 13 19:44	0° J 07'07			10184 Jul 20 00:44	0° M		
greatest brilliancy	10181 Dec 24 06:36	2° J 06'56	-4.7m		10184 Aug 13 10:36	0° L		
asc. node	10182 Jan 14 06:03	14° J 54'15			10184 Sep 07 06:20	0° M		
	10182 Jan 31 03:02	0° Z			10184 Oct 02 18:32	0° J		
morning max el	10182 Feb 01 03:03	0° Z 58'36	45°56'49	desc. node	10184 Oct 20 16:35	20° J 18'01		
	10182 Feb 28 13:54	0° \approx			10184 Oct 29 13:03	0° Z		
	10182 Mar 26 15:29	0° H		evening max el	10184 Nov 22 14:29	24° Z 40'32	45°47'16	
	10182 Apr 20 16:52	0° Y			10184 Nov 28 07:02	0° \approx		
desc. node	10182 May 06 00:55	18° Y 42'35		greatest brilliancy	10184 Dec 31 19:52	22° \approx 55'32	-4.8m	
	10182 May 15 05:17	0° B		retrograde	10185 Jan 10 09:24	24° \approx 36'01		
	10182 Jun 08 10:23	0° II		evening set	10185 Jan 25 15:45	20° \approx 06'59		
	10182 Jul 02 12:06	0° G		inferior conj	10185 Jan 31 13:01	16° \approx 36'03	-2°30'21	
	10182 Jul 26 13:18	0° Q		minimum elong	10185 Jan 31 18:30	16° \approx 27'31	2°28'23	
morning set	10182 Aug 05 12:04	12° Q 23'42		min. Earth dist.	10185 Feb 01 04:48	16° \approx 11'27	0.28072 AU	
	10182 Aug 19 15:37	0° M		morning rise	10185 Feb 06 20:28	12° \approx 49'08		
asc. node	10182 Aug 26 19:38	8° M 54'33		asc. node	10185 Feb 10 17:06	10° \approx 54'25		
	10182 Sep 12 19:31	0° L		direct	10185 Feb 21 16:53	8° \approx 27'48		
				greatest brilliancy	10185 Mar 04 17:12	10° \approx 42'03	-4.8m	
superior conj	10182 Sep 13 00:02	0° L 14'01	0°40'09		10185 Apr 01 14:42	0° H		
minimum elong	10182 Sep 12 15:51	29° M 48'40	0°39'44	morning max el	10185 Apr 12 21:04	10° H 46'12	46°41'32	
max. Earth dist.	10182 Sep 15 07:50	3° L 06'59	1.72667 AU		10185 May 01 02:44	0° Y		
	10182 Oct 07 01:07	0° M			10185 May 27 10:37	0° B		
evening rise	10182 Oct 20 01:25	16° M 03'51		desc. node	10185 Jun 02 13:33	7° B 12'25		
	10182 Oct 31 08:58	0° J			10185 Jun 21 14:56	0° II		
	10182 Nov 24 20:08	0° Z			10185 Jul 16 06:58	0° G		
desc. node	10182 Dec 16 13:17	26° Z 26'40			10185 Aug 09 17:56	0° Q		
	10182 Dec 19 11:36	0° \approx			10185 Sep 03 03:14	0° M		
	10183 Jan 13 07:48	0° H		asc. node	10185 Sep 23 08:36	24° M 54'10		
	10183 Feb 07 09:34	0° Y			10185 Sep 27 11:55	0° L		
	10183 Mar 04 20:52	0° B		morning set	10185 Oct 15 01:52	21° L 39'59		
	10183 Mar 31 06:27	0° II			10185 Oct 21 20:02	0° M		
asc. node	10183 Apr 08 12:20	8° II 56'42			10185 Nov 15 03:41	0° J		
evening max el	10183 Apr 19 21:48	20° II 46'40	46°52'35					
	10183 Apr 29 10:26	0° G		superior conj	10185 Nov 20 21:16	7° J 04'25	1°25'52	
greatest brilliancy	10183 May 30 09:04	21° G 36'11	-4.9m	minimum elong	10185 Nov 20 22:41	7° J 08'49	1°26'16	
retrograde	10183 Jun 09 06:27	23° G 26'21		max. Earth dist.	10185 Nov 21 02:14	7° J 19'46	1.73242 AU	
evening set	10183 Jun 25 18:44	18° G 09'08			10185 Dec 09 11:28	0° Z		
inferior conj	10183 Jun 29 23:21	15° G 37'13	6°47'29	evening rise	10185 Dec 27 21:05	22° Z 40'21		
minimum elong	10183 Jun 30 10:29	15° G 20'05	6°44'35		10186 Jan 02 19:57	0° \approx		
min. Earth dist.	10183 Jun 30 03:51	15° G 30'17	0.27123 AU	desc. node	10186 Jan 13 01:29	12° \approx 35'25		
morning rise	10183 Jul 05 02:23	12° G 33'50			10186 Jan 27 05:08	0° H		
direct	10183 Jul 20 16:52	7° G 50'26			10186 Feb 20 14:37	0° Y		
desc. node	10183 Jul 29 10:30	9° G 16'30			10186 Mar 17 00:39	0° B		
greatest brilliancy	10183 Jul 30 13:25	9° G 39'04	-4.8m		10186 Apr 10 13:31	0° II		
	10183 Aug 29 12:40	0° Q			10186 May 05 10:28	0° G		
morning max el	10183 Sep 08 10:41	9° Q 20'13	46°18'18	asc. node	10186 May 05 23:07	0° G 37'41		

	10186 May 31 01:53	0°♈			10188 Nov 05 08:46	0°♍		
	10186 Jun 27 13:19	0°♍			10188 Nov 29 21:20	0°♊		
evening max el	10186 Jul 01 03:20	3°♍38'08	46°40'53	morning set	10188 Dec 22 16:59	28°♊04'09		
	10186 Aug 01 16:21	0°♊			10188 Dec 24 06:35	0°♊		
greatest brilliancy	10186 Aug 09 08:44	3°♊48'03	-4.8m		10189 Jan 17 13:39	0°♊		
retrograde	10186 Aug 20 09:22	6°♊03'46		max. Earth dist.	10189 Jan 26 23:25	11°♊38'16	1.72748 AU	
desc. node	10186 Aug 25 21:25	5°♊26'45						
evening set	10186 Sep 04 10:43	1°♊37'28		superior conj	10189 Jan 28 23:52	14°♊08'13	0°27'37	
	10186 Sep 07 06:30	30°♋♍		minimum elong	10189 Jan 29 06:01	14°♊27'14	0°27'40	
min. Earth dist.	10186 Sep 09 20:51	28°♍24'49	0.28039 AU	desc. node	10189 Feb 09 13:59	28°♊29'47		
inferior conj	10186 Sep 10 15:04	27°♍56'38	-3°48'24		10189 Feb 10 19:05	0°♋		
minimum elong	10186 Sep 10 07:08	28°♍08'55	3°46'14		10189 Mar 06 22:45	0°♋		
morning rise	10186 Sep 16 04:06	24°♍37'49		evening rise	10189 Mar 08 17:24	2°♋12'41		
direct	10186 Oct 01 16:46	19°♍58'48			10189 Mar 31 00:40	0°♋		
greatest brilliancy	10186 Oct 11 08:52	21°♍40'24	-4.8m		10189 Apr 24 01:51	0°♌		
	10186 Oct 27 00:18	0°♊			10189 May 18 04:40	0°♌		
morning max el	10186 Nov 19 11:43	19°♊49'01	45°43'36	asc. node	10189 Jun 02 10:30	18°♌50'17		
	10186 Nov 29 18:22	0°♍			10189 Jun 11 12:33	0°♈		
asc. node	10186 Dec 16 20:37	18°♍06'47			10189 Jul 06 06:05	0°♍		
	10186 Dec 27 13:39	0°♊			10189 Jul 31 17:09	0°♊		
	10187 Jan 22 13:37	0°♊			10189 Aug 27 16:37	0°♍		
	10187 Feb 16 16:25	0°♊		evening max el	10189 Sep 10 04:43	13°♍48'08	46°01'21	
	10187 Mar 13 07:09	0°♋		desc. node	10189 Sep 22 07:59	25°♍02'43		
	10187 Apr 06 14:13	0°♋			10189 Sep 28 07:00	0°♊		
desc. node	10187 Apr 07 14:00	1°♋13'48		greatest brilliancy	10189 Oct 19 01:20	12°♊33'25	-4.7m	
	10187 Apr 30 15:59	0°♋		retrograde	10189 Oct 29 10:45	14°♊30'28		
morning set	10187 May 20 17:59	25°♋09'55		evening set	10189 Nov 16 18:25	8°♊12'40		
	10187 May 24 14:25	0°♌		inferior conj	10189 Nov 19 23:16	6°♊12'49	-8°40'03	
	10187 Jun 17 11:39	0°♌		minimum elong	10189 Nov 20 00:33	6°♊10'47	8°39'37	
				min. Earth dist.	10189 Nov 19 22:50	6°♊13'30	0.29110 AU	
superior conj	10187 Jun 29 21:06	15°♌33'16	-1°04'12	morning rise	10189 Nov 23 06:44	4°♊09'09		
minimum elong	10187 Jun 30 08:42	16°♌09'40	1°04'15		10189 Dec 01 07:28	30°♋♍		
max. Earth dist.	10187 Jul 02 00:56	18°♌15'47	1.71508 AU	direct	10189 Dec 11 11:56	27°♍56'42		
	10187 Jul 11 09:46	0°♈		greatest brilliancy	10189 Dec 21 21:14	29°♍54'45	-4.7m	
asc. node	10187 Jul 29 08:46	22°♈26'31			10189 Dec 22 02:58	0°♊		
	10187 Aug 04 10:16	0°♍		asc. node	10190 Jan 13 08:00	13°♊51'25		
evening rise	10187 Aug 08 15:14	5°♍14'15		morning max el	10190 Jan 29 17:37	28°♊42'58	45°55'39	
	10187 Aug 28 14:04	0°♊			10190 Jan 31 00:57	0°♊		
	10187 Sep 21 22:14	0°♍			10190 Feb 28 05:32	0°♊		
	10187 Oct 16 12:35	0°♊			10190 Mar 26 04:56	0°♋		
	10187 Nov 10 12:04	0°♊			10190 Apr 20 05:17	0°♋		
desc. node	10187 Nov 18 03:44	9°♊04'19		desc. node	10190 May 05 02:58	18°♋12'02		
	10187 Dec 06 00:39	0°♊			10190 May 14 17:08	0°♋		
	10188 Jan 01 09:29	0°♋			10190 Jun 07 21:53	0°♌		
	10188 Jan 29 11:45	0°♋			10190 Jul 01 23:23	0°♌		
evening max el	10188 Feb 03 11:24	4°♋57'33	46°16'57		10190 Jul 26 00:25	0°♈		
	10188 Mar 04 17:49	0°♋		morning set	10190 Aug 03 02:01	10°♈03'18		
asc. node	10188 Mar 10 03:47	2°♋55'06			10190 Aug 19 02:36	0°♍		
greatest brilliancy	10188 Mar 14 07:42	4°♋38'31	-4.8m	asc. node	10190 Aug 25 21:27	8°♍26'13		
retrograde	10188 Mar 24 05:05	6°♋28'04						
evening set	10188 Apr 09 07:37	1°♋23'39		superior conj	10190 Sep 10 15:25	27°♍59'10	0°37'01	
	10188 Apr 11 16:10	30°♋♍		minimum elong	10190 Sep 10 07:43	27°♍35'17	0°36'37	
inferior conj	10188 Apr 13 21:17	28°♋38'37	7°36'33		10190 Sep 12 06:23	0°♊		
minimum elong	10188 Apr 13 10:51	28°♋54'41	7°34'28	max. Earth dist.	10190 Sep 13 01:19	0°♊58'41	1.72628 AU	
min. Earth dist.	10188 Apr 13 18:35	28°♋42'46	0.27256 AU		10190 Oct 06 11:58	0°♍		
morning rise	10188 Apr 17 14:03	26°♋23'53		evening rise	10190 Oct 17 18:14	13°♍54'07		
direct	10188 May 04 16:07	20°♋45'43			10190 Oct 30 19:55	0°♊		
greatest brilliancy	10188 May 14 10:57	22°♋35'00	-4.9m		10190 Nov 24 07:19	0°♊		
	10188 May 28 04:52	0°♋		desc. node	10190 Dec 15 15:19	25°♊57'57		
morning max el	10188 Jun 24 05:10	23°♋40'00	46°57'27		10190 Dec 18 23:10	0°♊		
desc. node	10188 Jun 30 01:22	29°♋38'46			10191 Jan 12 19:55	0°♋		
	10188 Jun 30 09:31	0°♌			10191 Feb 06 22:33	0°♋		
	10188 Jul 27 16:46	0°♌			10191 Mar 04 11:23	0°♋		
	10188 Aug 22 12:15	0°♈			10191 Mar 31 00:14	0°♌		
	10188 Sep 16 17:39	0°♍		asc. node	10191 Apr 07 14:21	8°♌10'15		
	10188 Oct 11 15:50	0°♊		evening max el	10191 Apr 17 10:14	18°♌19'56	46°51'56	
asc. node	10188 Oct 20 21:35	11°♊11'34			10191 Apr 29 14:58	0°♌		

greatest brilliancy	10191 May 27 23:49	19°☿12'50	-4.9m	minimum elong	10193 Nov 18 15:17	4°♁58'49	1°26'27
retrograde	10191 Jun 06 19:01	21°☿01'29		max. Earth dist.	10193 Nov 18 22:20	5°♁20'33	1.73241 AU
evening set	10191 Jun 23 11:26	15°☿39'19			10193 Dec 08 22:13	0°☿	
inferior conj	10191 Jun 27 12:27	13°☿12'45	7°03'25	evening rise	10193 Dec 25 13:22	20°☿29'23	
minimum elong	10191 Jun 27 23:30	12°☿55'45	7°00'39		10194 Jan 02 06:50	0°♁	
min. Earth dist.	10191 Jun 27 17:45	13°☿04'35	0.27122 AU	desc. node	10194 Jan 12 03:17	12°♁07'14	
morning rise	10191 Jul 02 11:36	10°☿14'31			10194 Jan 26 16:15	0°♁	
direct	10191 Jul 18 05:17	5°☿25'41			10194 Feb 20 02:03	0°♁	
greatest brilliancy	10191 Jul 28 03:04	7°☿15'07	-4.8m		10194 Mar 16 12:34	0°♁	
desc. node	10191 Jul 28 12:28	7°☿23'34			10194 Apr 10 02:04	0°♁	
	10191 Aug 29 16:31	0°♁		asc. node	10194 May 05 01:12	0°☿03'22	
morning max el	10191 Sep 05 23:41	6°♁57'21	46°19'57		10194 May 05 00:04	0°☿	
	10191 Sep 28 05:10	0°♁			10194 May 30 17:33	0°♁	
	10191 Oct 25 01:56	0°♁			10194 Jun 27 10:27	0°♁	
asc. node	10191 Nov 18 10:25	28°♁18'43		evening max el	10194 Jun 28 18:48	1°♁21'29	46°42'13
	10191 Nov 19 20:47	0°♁			10194 Aug 03 12:39	0°♁	
	10191 Dec 15 00:29	0°♁		greatest brilliancy	10194 Aug 06 23:37	1°♁31'16	-4.8m
	10192 Jan 08 18:09	0°☿		retrograde	10194 Aug 18 01:17	3°♁47'47	
	10192 Feb 02 05:08	0°♁		desc. node	10194 Aug 24 23:19	2°♁49'05	
	10192 Feb 26 11:27	0°♁			10194 Aug 31 20:59	30°♁	
morning set	10192 Mar 03 00:27	6°♁52'48		evening set	10194 Sep 02 00:24	29°♁23'27	
desc. node	10192 Mar 09 02:51	14°♁27'55		min. Earth dist.	10194 Sep 07 11:44	26°♁09'15	0.27988 AU
	10192 Mar 21 14:04	0°♁		inferior conj	10194 Sep 08 05:55	25°♁41'08	-3°28'44
max. Earth dist.	10192 Apr 09 00:53	23°♁04'11	1.71581 AU	minimum elong	10194 Sep 07 22:31	25°♁52'34	3°26'41
				morning rise	10194 Sep 13 21:18	22°♁19'34	
superior conj	10192 Apr 11 23:59	26°♁46'53	-1°10'57	direct	10194 Sep 29 07:33	17°♁44'00	
minimum elong	10192 Apr 11 12:47	26°♁11'47	1°10'47	greatest brilliancy	10194 Oct 08 22:59	19°♁25'32	-4.8m
	10192 Apr 14 13:37	0°♁			10194 Oct 27 17:27	0°♁	
	10192 May 08 11:14	0°♁		morning max el	10194 Nov 17 03:36	17°♁38'08	45°43'58
evening rise	10192 May 22 04:37	17°♁14'08			10194 Nov 29 13:19	0°♁	
	10192 Jun 01 08:46	0°☿		asc. node	10194 Dec 15 22:30	17°♁28'46	
	10192 Jun 25 08:22	0°♁			10194 Dec 27 04:11	0°♁	
asc. node	10192 Jun 29 22:19	5°♁42'32			10195 Jan 22 02:23	0°☿	
	10192 Jul 19 12:08	0°♁			10195 Feb 16 04:19	0°♁	
	10192 Aug 12 22:23	0°♁			10195 Mar 12 18:35	0°♁	
	10192 Sep 06 18:48	0°♁			10195 Apr 06 01:24	0°♁	
	10192 Oct 02 08:20	0°♁		desc. node	10195 Apr 06 15:57	0°♁45'10	
desc. node	10192 Oct 19 18:42	19°♁41'12			10195 Apr 30 03:02	0°♁	
	10192 Oct 29 05:47	0°☿		morning set	10195 May 18 04:49	22°♁38'56	
evening max el	10192 Nov 20 04:34	22°☿24'51	45°47'01		10195 May 24 01:22	0°♁	
	10192 Nov 28 09:21	0°♁			10195 Jun 16 22:31	0°☿	
greatest brilliancy	10192 Dec 29 10:04	20°♁39'55	-4.8m				
retrograde	10193 Jan 08 00:10	22°♁20'58		superior conj	10195 Jun 27 09:01	13°☿06'05	-1°06'47
evening set	10193 Jan 23 08:33	17°♁48'16		minimum elong	10195 Jun 27 20:34	13°☿42'18	1°06'52
inferior conj	10193 Jan 29 03:55	14°♁20'03	-2°51'00	max. Earth dist.	10195 Jun 29 12:56	15°☿48'54	1.71475 AU
minimum elong	10193 Jan 29 10:05	14°♁10'27	2°48'50		10195 Jul 10 20:35	0°♁	
min. Earth dist.	10193 Jan 29 20:13	13°♁54'41	0.28122 AU	asc. node	10195 Jul 28 10:37	21°♁58'38	
morning rise	10193 Feb 04 10:52	10°♁34'01			10195 Aug 03 21:03	0°♁	
asc. node	10193 Feb 09 19:02	8°♁02'26		evening rise	10195 Aug 06 05:17	2°♁55'03	
direct	10193 Feb 19 08:09	6°♁10'54			10195 Aug 28 00:54	0°♁	
greatest brilliancy	10193 Mar 02 09:34	8°♁26'29	-4.8m		10195 Sep 21 09:13	0°♁	
	10193 Apr 01 17:53	0°♁			10195 Oct 15 23:56	0°♁	
morning max el	10193 Apr 10 12:41	8°♁29'24	46°40'18		10195 Nov 10 00:04	0°☿	
	10193 Apr 30 20:01	0°♁		desc. node	10195 Nov 17 05:42	8°☿33'49	
	10193 May 27 00:54	0°♁			10195 Dec 05 13:52	0°♁	
desc. node	10193 Jun 01 15:32	6°♁37'15			10196 Jan 01 01:03	0°♁	
	10193 Jun 21 03:48	0°♁			10196 Jan 29 09:17	0°♁	
	10193 Jul 15 19:02	0°☿		evening max el	10196 Feb 01 02:14	2°♁40'15	46°15'25
	10193 Aug 09 05:28	0°♁			10196 Mar 06 14:33	0°♁	
	10193 Sep 02 14:25	0°♁		asc. node	10196 Mar 09 05:49	1°♁13'34	
asc. node	10193 Sep 22 10:33	24°♁26'16		greatest brilliancy	10196 Mar 11 20:30	2°♁14'55	-4.8m
	10193 Sep 26 22:52	0°♁		retrograde	10196 Mar 21 18:01	4°♁04'10	
morning set	10193 Oct 12 18:21	19°♁29'23			10196 Apr 05 01:43	30°♁	
	10193 Oct 21 06:51	0°♁		evening set	10196 Apr 06 16:41	29°♁06'03	
	10193 Nov 14 14:26	0°♁		inferior conj	10196 Apr 11 10:28	26°♁14'46	7°22'34
				minimum elong	10196 Apr 10 23:45	26°♁31'18	7°20'21
superior conj	10193 Nov 18 14:36	4°♁56'42	1°26'02	min. Earth dist.	10196 Apr 11 07:44	26°♁18'59	0.27264 AU

morning rise	10196 Apr 15 06:49	23° Υ 54'33		evening rise	10198 Oct 15 11:18	11° \mathbb{M} 46'15	
direct	10196 May 02 05:52	18° Υ 21'50			10198 Oct 30 06:28	0° \mathcal{A}	
greatest brilliancy	10196 May 12 00:38	20° Υ 10'55	-4.9m		10198 Nov 23 18:05	0° \mathcal{B}	
	10196 May 29 01:58	0° \mathcal{B}		desc. node	10198 Dec 14 17:12	25° \mathcal{B} 30'08	
morning max el	10196 Jun 21 18:22	21° \mathcal{B} 15'35	46°57'52		10198 Dec 18 10:17	0° \approx	
desc. node	10196 Jun 29 03:14	28° \mathcal{B} 50'22			10199 Jan 12 07:38	0° \mathcal{H}	
	10196 Jun 30 05:43	0° \mathbb{I}			10199 Feb 06 11:15	0° Υ	
	10196 Jul 27 08:07	0° \mathcal{E}			10199 Mar 04 01:46	0° \mathcal{B}	
	10196 Aug 22 01:33	0° \mathcal{Q}			10199 Mar 30 18:10	0° \mathbb{I}	
	10196 Sep 16 05:48	0° \mathbb{P}		asc. node	10199 Apr 06 16:24	7° \mathbb{I} 23'56	
	10196 Oct 11 03:14	0° \mathcal{E}		evening max el	10199 Apr 14 22:22	15° \mathbb{I} 53'16	46°51'14
asc. node	10196 Oct 19 23:36	10° \mathcal{E} 43'42			10199 Apr 29 21:16	0° \mathcal{E}	
	10196 Nov 04 19:43	0° \mathbb{M}		greatest brilliancy	10199 May 25 14:02	16° \mathcal{E} 49'20	-4.9m
	10196 Nov 29 08:01	0° \mathcal{A}		retrograde	10199 Jun 04 07:45	18° \mathcal{E} 37'13	
morning set	10196 Dec 20 10:14	25° \mathcal{A} 56'51		evening set	10199 Jun 21 03:59	13° \mathcal{E} 09'44	
	10196 Dec 23 17:09	0° \mathcal{B}		inferior conj	10199 Jun 25 01:24	10° \mathcal{E} 48'41	7°18'31
	10197 Jan 17 00:14	0° \approx		minimum elong	10199 Jun 25 12:16	10° \mathcal{E} 31'58	7°15'55
max. Earth dist.	10197 Jan 24 14:17	9° \approx 22'59	1.72784 AU	min. Earth dist.	10199 Jun 25 07:18	10° \mathcal{E} 39'36	0.27122 AU
				morning rise	10199 Jun 29 20:33	7° \mathcal{E} 56'10	
superior conj	10197 Jan 26 15:21	11° \approx 54'47	0°30'53	direct	10199 Jul 15 17:34	3° \mathcal{E} 01'15	
minimum elong	10197 Jan 26 22:05	12° \approx 15'37	0°30'56	greatest brilliancy	10199 Jul 25 16:28	4° \mathcal{E} 51'40	-4.9m
desc. node	10197 Feb 08 15:53	28° \approx 02'42		desc. node	10199 Jul 27 14:26	5° \mathcal{E} 35'43	
	10197 Feb 10 05:44	0° \mathcal{H}			10199 Aug 29 18:21	0° \mathcal{Q}	
evening rise	10197 Mar 06 07:16	29° \mathcal{H} 53'01		morning max el	10199 Sep 03 13:16	4° \mathcal{Q} 36'49	46°21'42
	10197 Mar 06 09:31	0° Υ			10199 Sep 27 21:54	0° \mathbb{P}	
	10197 Mar 30 11:35	0° \mathcal{B}			10199 Oct 24 15:36	0° \mathcal{E}	
	10197 Apr 23 12:59	0° \mathbb{I}		asc. node	10199 Nov 17 12:13	27° \mathcal{E} 47'57	
	10197 May 17 16:08	0° \mathcal{E}			10199 Nov 19 08:58	0° \mathbb{M}	
asc. node	10197 Jun 01 12:25	18° \mathcal{E} 19'59			10199 Dec 14 11:50	0° \mathcal{A}	
	10197 Jun 11 00:31	0° \mathcal{Q}			10200 Jan 08 05:03	0° \mathcal{B}	
	10197 Jul 05 18:52	0° \mathbb{P}			10200 Feb 01 15:48	0° \approx	
	10197 Jul 31 07:26	0° \mathcal{E}			10200 Feb 25 22:02	0° \mathcal{H}	
	10197 Aug 27 10:38	0° \mathbb{M}		morning set	10200 Mar 01 14:18	4° \mathcal{H} 33'55	
evening max el	10197 Sep 07 19:41	11° \mathbb{M} 34'15	46°02'36	desc. node	10200 Mar 09 04:51	14° \mathcal{H} 01'15	
desc. node	10197 Sep 21 10:07	24° \mathbb{M} 05'43			10200 Mar 22 00:39	0° Υ	
	10197 Sep 28 18:13	0° \mathcal{A}		max. Earth dist.	10200 Apr 07 12:56	20° Υ 38'22	1.71622 AU
greatest brilliancy	10197 Oct 16 17:11	10° \mathcal{A} 24'22	-4.7m				
retrograde	10197 Oct 27 02:26	12° \mathcal{A} 21'43		superior conj	10200 Apr 10 11:56	24° Υ 20'42	-1°08'36
evening set	10197 Nov 14 10:24	6° \mathcal{A} 04'35		minimum elong	10200 Apr 10 00:31	23° Υ 44'56	1°08'24
inferior conj	10197 Nov 17 15:39	4° \mathcal{A} 04'05	-8°40'53		10200 Apr 15 00:15	0° \mathcal{B}	
minimum elong	10197 Nov 17 16:08	4° \mathcal{A} 03'19	8°40'29		10200 May 08 21:57	0° \mathbb{I}	
min. Earth dist.	10197 Nov 17 14:15	4° \mathcal{A} 06'18	0.29106 AU	evening rise	10200 May 20 15:31	14° \mathbb{I} 44'00	
morning rise	10197 Nov 20 21:54	2° \mathcal{A} 02'07			10200 Jun 01 19:34	0° \mathcal{E}	
	10197 Nov 24 10:29	30° $\mathcal{R}\mathbb{M}$			10200 Jun 25 19:16	0° \mathcal{Q}	
direct	10197 Dec 09 03:57	25° \mathbb{M} 48'20		asc. node	10200 Jun 30 00:10	5° \mathcal{Q} 14'16	
greatest brilliancy	10197 Dec 19 12:39	27° \mathbb{M} 45'18	-4.7m		10200 Jul 19 23:14	0° \mathbb{P}	
	10197 Dec 24 16:56	0° \mathcal{A}			10200 Aug 13 09:52	0° \mathcal{E}	
asc. node	10198 Jan 12 09:56	12° \mathcal{A} 51'34			10200 Sep 07 06:58	0° \mathbb{M}	
morning max el	10198 Jan 27 07:52	26° \mathcal{A} 27'41	45°54'20		10200 Oct 02 21:51	0° \mathcal{A}	
	10198 Jan 30 21:37	0° \mathcal{B}		desc. node	10200 Oct 19 20:38	19° \mathcal{A} 04'50	
	10198 Feb 27 20:37	0° \approx			10200 Oct 29 22:21	0° \mathcal{B}	
	10198 Mar 25 18:01	0° \mathcal{H}		evening max el	10200 Nov 18 19:46	20° \mathcal{B} 13'23	45°46'59
	10198 Apr 19 17:23	0° Υ			10200 Nov 29 12:33	0° \approx	
desc. node	10198 May 04 04:56	17° Υ 42'05		greatest brilliancy	10200 Dec 28 00:10	18° \approx 26'26	-4.8m
	10198 May 14 04:40	0° \mathcal{B}		retrograde	10201 Jan 06 15:31	20° \approx 08'17	
	10198 Jun 07 09:04	0° \mathbb{I}		evening set	10201 Jan 22 01:47	15° \approx 32'00	
	10198 Jul 01 10:20	0° \mathcal{E}		inferior conj	10201 Jan 27 19:06	12° \approx 06'26	-3°11'01
	10198 Jul 25 11:12	0° \mathcal{Q}		minimum elong	10201 Jan 28 01:54	11° \approx 55'52	3°08'42
morning set	10198 Jul 31 15:52	7° \mathcal{Q} 43'28		min. Earth dist.	10201 Jan 28 11:26	11° \approx 41'02	0.28171 AU
	10198 Aug 18 13:14	0° \mathbb{P}		morning rise	10201 Feb 03 01:22	8° \approx 21'38	
asc. node	10198 Aug 24 23:26	7° \mathbb{P} 59'22		asc. node	10201 Feb 09 21:02	5° \approx 17'54	
				direct	10201 Feb 18 00:11	3° \approx 56'43	
superior conj	10198 Sep 08 06:53	25° \mathbb{P} 45'36	0°33'51	greatest brilliancy	10201 Mar 01 01:25	6° \approx 12'40	-4.8m
minimum elong	10198 Sep 07 23:42	25° \mathbb{P} 23'20	0°33'26		10201 Apr 02 18:52	0° \mathcal{H}	
max. Earth dist.	10198 Sep 10 16:31	28° \mathbb{P} 44'20	1.72587 AU	morning max el	10201 Apr 09 04:42	6° \mathcal{H} 15'28	46°38'43
	10198 Sep 11 16:56	0° \mathcal{E}			10201 May 01 12:28	0° Υ	
	10198 Oct 05 22:28	0° \mathbb{M}			10201 May 27 14:41	0° \mathcal{B}	

desc. node	10201 Jun 01 17:21	6°♄02'49		10204 Jan 01 16:47	0°♄	
	10201 Jun 21 16:21	0°♄		10204 Jan 30 07:30	0°♄	
	10201 Jul 16 06:50	0°♄	evening max el	10204 Jan 30 16:21	0°♄21'37	46°14'00
	10201 Aug 09 16:45	0°♄	asc. node	10204 Mar 09 07:53	29°♄29'00	
	10201 Sep 03 01:19	0°♄	greatest brilliancy	10204 Mar 10 10:11	29°♄53'13	-4.8m
asc. node	10201 Sep 22 12:30	23°♄59'20		10204 Mar 10 18:01	0°♄	
	10201 Sep 27 09:31	0°♄	retrograde	10204 Mar 20 06:49	1°♄41'37	
morning set	10201 Oct 11 10:38	17°♄19'07		10204 Mar 29 10:23	30°♄	
	10201 Oct 21 17:20	0°♄	evening set	10204 Apr 05 02:09	26°♄49'30	
	10201 Nov 15 00:51	0°♄	inferior conj	10204 Apr 09 23:54	23°♄52'24	7°07'59
			minimum elong	10204 Apr 09 13:00	24°♄09'16	7°05'36
superior conj	10201 Nov 17 07:54	2°♄49'47 1°26'06	min. Earth dist.	10204 Apr 09 21:29	23°♄56'08	0.27268 AU
minimum elong	10201 Nov 17 07:51	2°♄49'41 1°26'31	morning rise	10204 Apr 13 23:46	21°♄26'45	
max. Earth dist.	10201 Nov 17 19:05	3°♄24'18 1.73236 AU	direct	10204 Apr 30 19:13	15°♄59'19	
	10201 Dec 09 08:40	0°♄	greatest brilliancy	10204 May 10 15:03	17°♄48'50	-4.9m
evening rise	10201 Dec 24 05:49	18°♄19'56		10204 May 30 17:09	0°♄	
	10202 Jan 02 17:23	0°♄	morning max el	10204 Jun 20 06:41	18°♄49'42	46°58'12
desc. node	10202 Jan 12 05:14	11°♄40'30	desc. node	10204 Jun 29 05:17	28°♄03'57	
	10202 Jan 27 03:00	0°♄		10204 Jul 01 01:00	0°♄	
	10202 Feb 20 13:08	0°♄		10204 Jul 27 23:06	0°♄	
	10202 Mar 17 00:06	0°♄		10204 Aug 22 14:40	0°♄	
	10202 Apr 10 14:18	0°♄		10204 Sep 16 17:54	0°♄	
asc. node	10202 May 05 03:03	29°♄29'04		10204 Oct 11 14:42	0°♄	
	10202 May 05 13:28	0°♄	asc. node	10204 Oct 20 01:26	10°♄15'02	
	10202 May 31 09:15	0°♄		10204 Nov 05 06:44	0°♄	
evening max el	10202 Jun 27 10:36	29°♄05'42 46°43'15		10204 Nov 29 18:45	0°♄	
	10202 Jun 28 08:19	0°♄	morning set	10204 Dec 19 03:08	23°♄48'15	
greatest brilliancy	10202 Aug 05 14:43	29°♄14'12 -4.8m		10204 Dec 24 03:46	0°♄	
	10202 Aug 07 17:54	0°♄		10205 Jan 17 10:50	0°♄	
retrograde	10202 Aug 16 16:46	1°♄30'37	max. Earth dist.	10205 Jan 23 05:54	7°♄09'59 1.72818 AU	
desc. node	10202 Aug 25 01:24	0°♄05'03				
	10202 Aug 25 07:17	30°♄	superior conj	10205 Jan 25 06:42	9°♄40'56 0°34'06	
evening set	10202 Aug 31 13:58	27°♄08'27	minimum elong	10205 Jan 25 13:59	10°♄03'30 0°34'09	
min. Earth dist.	10202 Sep 06 02:22	23°♄52'34 0.27933 AU	desc. node	10205 Feb 08 17:52	27°♄35'43	
inferior conj	10202 Sep 06 20:23	23°♄24'44 -3°08'28		10205 Feb 10 16:25	0°♄	
minimum elong	10202 Sep 06 13:36	23°♄35'14 3°06'34	evening rise	10205 Mar 04 21:14	27°♄33'37	
morning rise	10202 Sep 12 14:00	20°♄00'24		10205 Mar 06 20:19	0°♄	
direct	10202 Sep 27 22:15	15°♄28'32		10205 Mar 30 22:32	0°♄	
greatest brilliancy	10202 Oct 07 12:28	17°♄09'31 -4.8m		10205 Apr 24 00:09	0°♄	
	10202 Oct 29 06:10	0°♄		10205 May 18 03:36	0°♄	
morning max el	10202 Nov 15 18:31	15°♄25'16 45°44'29	asc. node	10205 Jun 01 14:21	17°♄49'54	
	10202 Nov 30 07:33	0°♄		10205 Jun 11 12:28	0°♄	
asc. node	10202 Dec 16 00:26	16°♄51'51		10205 Jul 06 07:39	0°♄	
	10202 Dec 27 18:19	0°♄		10205 Jul 31 21:53	0°♄	
	10203 Jan 22 14:49	0°♄		10205 Aug 28 05:13	0°♄	
	10203 Feb 16 15:54	0°♄	evening max el	10205 Sep 06 09:46	9°♄17'43 46°03'38	
	10203 Mar 13 05:44	0°♄	desc. node	10205 Sep 21 12:02	23°♄06'18	
desc. node	10203 Apr 06 17:53	0°♄17'22		10205 Sep 30 09:51	0°♄	
	10203 Apr 06 12:18	0°♄	greatest brilliancy	10205 Oct 15 08:38	8°♄13'38 -4.8m	
	10203 Apr 30 13:47	0°♄	retrograde	10205 Oct 25 18:05	10°♄11'43	
morning set	10203 May 16 16:04	20°♄10'09	evening set	10205 Nov 13 01:45	3°♄55'35	
	10203 May 24 12:02	0°♄	inferior conj	10205 Nov 16 07:47	1°♄53'59 -8°40'58	
	10203 Jun 17 09:10	0°♄	minimum elong	10205 Nov 16 07:28	1°♄54'30 8°40'35	
			min. Earth dist.	10205 Nov 16 05:31	1°♄57'33 0.29103 AU	
superior conj	10203 Jun 25 21:01	10°♄39'42 -1°09'13		10205 Nov 19 08:49	30°♄	
minimum elong	10203 Jun 26 08:24	11°♄15'25 1°09'20	morning rise	10205 Nov 19 13:12	29°♄53'19	
max. Earth dist.	10203 Jun 28 00:41	13°♄21'48 1.71452 AU	direct	10205 Dec 07 19:24	23°♄38'24	
	10203 Jul 11 07:14	0°♄	greatest brilliancy	10205 Dec 18 04:17	25°♄35'02 -4.7m	
asc. node	10203 Jul 28 12:37	21°♄31'33		10205 Dec 27 07:59	0°♄	
	10203 Aug 04 07:45	0°♄	asc. node	10206 Jan 12 12:00	11°♄52'30	
evening rise	10203 Aug 04 18:53	0°♄34'42	morning max el	10206 Jan 25 22:14	24°♄12'02 45°53'13	
	10203 Aug 28 11:41	0°♄		10206 Jan 31 17:52	0°♄	
	10203 Sep 21 20:11	0°♄		10206 Feb 28 11:41	0°♄	
	10203 Oct 16 11:15	0°♄		10206 Mar 26 07:09	0°♄	
	10203 Nov 10 12:04	0°♄		10206 Apr 20 05:34	0°♄	
desc. node	10203 Nov 17 07:35	8°♄03'11	desc. node	10206 May 04 06:42	17°♄11'10	
	10203 Dec 06 03:07	0°♄		10206 May 14 16:18	0°♄	

	10206 Jun 07 20:21	0°♄	evening set	10209 Jan 19 19:02	13°♊13'58	
	10206 Jul 01 21:22	0°♅	inferior conj	10209 Jan 25 10:08	9°♊51'01 -3°30'51	
	10206 Jul 25 22:04	0°♌	minimum elong	10209 Jan 25 17:31	9°♊39'32 3°28'23	
morning set	10206 Jul 30 05:58	5°♌24'06	min. Earth dist.	10209 Jan 26 02:23	9°♊25'43 0.28222 AU	
	10206 Aug 18 23:58	0°♍	morning rise	10209 Jan 31 15:28	6°♊07'34	
asc. node	10206 Aug 25 01:21	7°♍32'04	asc. node	10209 Feb 08 23:03	2°♊36'11	
			direct	10209 Feb 15 16:17	1°♊40'52	
superior conj	10206 Sep 06 22:29	23°♍32'03 0°30'38	greatest brilliancy	10209 Feb 26 16:40	3°♊56'20 -4.8m	
minimum elong	10206 Sep 06 15:51	23°♍11'30 0°30'13		10209 Apr 02 19:18	0°♋	
max. Earth dist.	10206 Sep 09 07:29	26°♍28'50 1.72553 AU	morning max el	10209 Apr 06 20:24	3°♋59'14 46°37'11	
	10206 Sep 12 03:35	0°♎		10209 May 01 05:08	0°♋	
	10206 Oct 06 09:08	0°♏		10209 May 27 04:46	0°♋	
evening rise	10206 Oct 14 04:22	9°♏37'51	desc. node	10209 May 31 19:25	5°♋28'05	
	10206 Oct 30 17:16	0°♐		10209 Jun 21 05:10	0°♌	
	10206 Nov 24 05:08	0°♑		10209 Jul 15 18:55	0°♍	
desc. node	10206 Dec 14 19:07	25°♑01'34		10209 Aug 09 04:21	0°♎	
	10206 Dec 18 21:44	0°♒		10209 Sep 02 12:33	0°♏	
	10207 Jan 12 19:42	0°♓	asc. node	10209 Sep 21 14:20	23°♏30'57	
	10207 Feb 07 00:19	0°♑		10209 Sep 26 20:30	0°♐	
	10207 Mar 04 16:36	0°♒	morning set	10209 Oct 09 03:13	15°♐08'43	
	10207 Mar 31 12:52	0°♌		10209 Oct 21 04:09	0°♑	
asc. node	10207 Apr 06 18:17	6°♌35'39		10209 Nov 14 11:36	0°♒	
evening max el	10207 Apr 13 10:59	13°♌27'08 46°50'38				
	10207 May 01 06:25	0°♍	superior conj	10209 Nov 15 01:28	0°♒42'48 1°26'03	
greatest brilliancy	10207 May 24 03:37	14°♍24'23 -4.9m	minimum elong	10209 Nov 15 00:42	0°♒40'26 1°26'26	
retrograde	10207 Jun 02 21:02	16°♍12'19	max. Earth dist.	10209 Nov 15 16:26	1°♒28'58 1.73229 AU	
evening set	10207 Jun 19 20:32	10°♍39'14		10209 Dec 08 19:27	0°♓	
inferior conj	10207 Jun 23 14:18	8°♍23'44 7°32'56	evening rise	10209 Dec 21 22:27	16°♓09'54	
minimum elong	10207 Jun 24 00:55	8°♍07'27 7°30'30		10210 Jan 02 04:19	0°♊	
min. Earth dist.	10207 Jun 23 20:24	8°♍14'23 0.27121 AU	desc. node	10210 Jan 11 07:16	11°♊12'49	
morning rise	10207 Jun 28 05:18	5°♍37'24		10210 Jan 26 14:13	0°♋	
direct	10207 Jul 14 06:14	0°♍36'00		10210 Feb 20 00:43	0°♋	
greatest brilliancy	10207 Jul 24 05:14	2°♍26'56 -4.9m		10210 Mar 16 12:10	0°♌	
desc. node	10207 Jul 27 16:28	3°♍51'28		10210 Apr 10 03:05	0°♌	
	10207 Aug 30 19:03	0°♎	asc. node	10210 May 04 05:02	28°♌53'41	
morning max el	10207 Sep 02 03:41	2°♎17'50 46°23'31		10210 May 05 03:27	0°♍	
	10207 Sep 28 14:29	0°♏		10210 May 31 01:39	0°♎	
	10207 Oct 25 05:20	0°♐	evening max el	10210 Jun 25 02:05	26°♎48'00 46°44'19	
asc. node	10207 Nov 17 14:10	27°♐16'57		10210 Jun 28 07:33	0°♏	
	10207 Nov 19 21:19	0°♑	greatest brilliancy	10210 Aug 03 06:32	26°♏57'00 -4.8m	
	10207 Dec 14 23:29	0°♒	retrograde	10210 Aug 14 07:55	29°♏12'24	
	10208 Jan 08 16:18	0°♓	desc. node	10210 Aug 24 03:22	27°♏15'18	
	10208 Feb 02 02:50	0°♊	evening set	10210 Aug 29 03:50	24°♏52'20	
	10208 Feb 26 08:57	0°♋	min. Earth dist.	10210 Sep 03 17:23	21°♏34'36 0.27877 AU	
morning set	10208 Feb 28 04:02	2°♋13'38	inferior conj	10210 Sep 04 10:55	21°♏07'28 -2°47'46	
desc. node	10208 Mar 08 06:41	13°♋32'59	minimum elong	10210 Sep 04 04:48	21°♏16'56 2°46'03	
	10208 Mar 21 11:33	0°♌	morning rise	10210 Sep 10 06:36	17°♏40'20	
max. Earth dist.	10208 Apr 05 01:57	18°♌14'39 1.71658 AU	direct	10210 Sep 25 12:51	13°♏12'18	
			greatest brilliancy	10210 Oct 05 02:13	14°♏52'39 -4.8m	
superior conj	10208 Apr 07 23:43	21°♌52'59 -1°06'07		10210 Oct 29 15:56	0°♐	
minimum elong	10208 Apr 07 12:10	21°♌16'50 1°05'52	morning max el	10210 Nov 13 08:39	13°♐09'35 45°45'07	
	10208 Apr 14 11:12	0°♑		10210 Nov 30 01:38	0°♑	
	10208 May 08 08:58	0°♒	asc. node	10210 Dec 15 02:29	16°♑14'44	
evening rise	10208 May 18 02:26	12°♒12'58		10210 Dec 27 08:34	0°♒	
	10208 Jun 01 06:40	0°♓		10211 Jan 22 03:28	0°♓	
	10208 Jun 25 06:30	0°♌		10211 Feb 16 03:47	0°♊	
asc. node	10208 Jun 29 02:12	4°♌45'31		10211 Mar 12 17:14	0°♋	
	10208 Jul 19 10:40	0°♍	desc. node	10211 Apr 05 19:44	29°♋47'59	
	10208 Aug 12 21:41	0°♎		10211 Apr 05 23:36	0°♋	
	10208 Sep 06 19:29	0°♏		10211 Apr 30 00:58	0°♌	
	10208 Oct 02 11:47	0°♐	morning set	10211 May 14 02:49	17°♌38'28	
desc. node	10208 Oct 18 22:32	18°♐27'11		10211 May 23 23:07	0°♍	
	10208 Oct 29 15:37	0°♑		10211 Jun 16 20:11	0°♍	
evening max el	10208 Nov 16 11:29	18°♑02'07 45°46'42				
	10208 Nov 29 18:11	0°♒	superior conj	10211 Jun 23 08:41	8°♑11'14 -1°11'34	
greatest brilliancy	10208 Dec 25 14:14	16°♒11'31 -4.8m	minimum elong	10211 Jun 23 19:48	8°♑46'06 1°11'41	
retrograde	10209 Jan 04 06:36	17°♒53'41	max. Earth dist.	10211 Jun 25 09:43	10°♑45'03 1.71422 AU	

	10211 Jul 10 18:13	0°♌		asc. node	10214 Jan 11 13:54	10°♊54'34	
asc. node	10211 Jul 27 14:30	21°♌03'10		morning max el	10214 Jan 23 13:37	21°♊59'08	45°52'16
evening rise	10211 Aug 02 08:15	28°♌12'32			10214 Jan 31 13:26	0°♊	
	10211 Aug 03 18:45	0°♍			10214 Feb 28 02:28	0°♋	
	10211 Aug 27 22:46	0°♎			10214 Mar 25 20:07	0°♌	
	10211 Sep 21 07:26	0°♏			10214 Apr 19 17:38	0°♍	
	10211 Oct 15 22:52	0°♐		desc. node	10214 May 03 08:46	16°♍41'18	
	10211 Nov 10 00:22	0°♑			10214 May 14 03:52	0°♎	
desc. node	10211 Nov 16 09:38	7°♑32'16			10214 Jun 07 07:39	0°♏	
	10211 Dec 05 16:42	0°♒			10214 Jul 01 08:28	0°♐	
	10212 Jan 01 09:00	0°♓			10214 Jul 25 09:00	0°♑	
evening max el	10212 Jan 28 05:30	28°♓00'09	46°12'26	morning set	10214 Jul 27 19:34	3°♑02'41	
	10212 Jan 30 06:58	0°♈			10214 Aug 18 10:45	0°♒	
greatest brilliancy	10212 Mar 07 23:47	27°♈30'23	-4.8m	asc. node	10214 Aug 24 03:12	7°♒04'17	
asc. node	10212 Mar 08 09:44	27°♈38'57					
retrograde	10212 Mar 17 19:18	29°♈18'01		superior conj	10214 Sep 04 13:32	21°♒16'33	0°27'19
evening set	10212 Apr 02 11:35	24°♈31'15		minimum elong	10214 Sep 04 07:31	20°♒57'53	0°26'55
inferior conj	10212 Apr 07 13:13	21°♈28'47	6°52'26	max. Earth dist.	10214 Sep 06 22:06	24°♒12'07	1.72514 AU
minimum elong	10212 Apr 07 02:13	21°♈45'50	6°49'56		10214 Sep 11 14:17	0°♈	
min. Earth dist.	10212 Apr 07 11:27	21°♈31'32	0.27283 AU		10214 Oct 05 19:49	0°♉	
morning rise	10212 Apr 11 16:41	18°♈57'40		evening rise	10214 Oct 11 21:12	7°♉28'47	
direct	10212 Apr 28 08:08	13°♈35'07			10214 Oct 30 04:03	0°♊	
greatest brilliancy	10212 May 08 06:03	15°♈25'58	-4.9m		10214 Nov 23 16:09	0°♋	
	10212 May 31 05:07	0°♌		desc. node	10214 Dec 13 21:09	24°♋33'28	
morning max el	10212 Jun 17 19:06	16°♌22'32	46°58'36		10214 Dec 18 09:08	0°♌	
desc. node	10212 Jun 28 07:16	27°♌16'42			10215 Jan 12 07:43	0°♍	
	10212 Jun 30 20:15	0°♍			10215 Feb 06 13:21	0°♎	
	10212 Jul 27 14:15	0°♏			10215 Mar 04 07:27	0°♏	
	10212 Aug 22 03:59	0°♑			10215 Mar 31 07:49	0°♐	
	10212 Sep 16 06:10	0°♒		asc. node	10215 Apr 05 20:19	5°♐47'44	
	10212 Oct 11 02:17	0°♓		evening max el	10215 Apr 11 00:34	11°♐04'21	46°49'56
asc. node	10212 Oct 19 03:21	9°♓46'06			10215 May 01 18:21	0°♑	
	10212 Nov 04 17:53	0°♈		greatest brilliancy	10215 May 21 16:37	11°♑59'36	-4.9m
	10212 Nov 29 05:38	0°♉		retrograde	10215 May 31 10:43	13°♑48'00	
morning set	10212 Dec 16 20:22	21°♉40'15		evening set	10215 Jun 17 13:06	8°♑09'21	
	10212 Dec 23 14:31	0°♊		inferior conj	10215 Jun 21 03:15	5°♑59'13	7°46'26
	10213 Jan 16 21:34	0°♋		minimum elong	10215 Jun 21 13:33	5°♑43'26	7°44'09
max. Earth dist.	10213 Jan 21 00:01	5°♋04'23	1.72850 AU	min. Earth dist.	10215 Jun 21 09:09	5°♑50'10	0.27126 AU
				morning rise	10215 Jun 25 14:00	3°♑19'13	
superior conj	10213 Jan 22 22:34	7°♋28'20	0°37'14		10215 Jul 02 09:37	30°♒♐	
minimum elong	10213 Jan 23 06:22	7°♋52'28	0°37'16	direct	10215 Jul 11 19:32	28°♐11'18	
desc. node	10213 Feb 07 19:43	27°♋08'03		greatest brilliancy	10215 Jul 21 17:33	0°♑01'59	-4.9m
	10213 Feb 10 03:13	0°♌			10215 Jul 21 15:19	0°♒	
evening rise	10213 Mar 02 11:42	25°♌15'36		desc. node	10215 Jul 26 18:24	2°♒11'22	
	10213 Mar 06 07:15	0°♍			10215 Aug 30 18:33	0°♑	
	10213 Mar 30 09:39	0°♎		morning max el	10215 Aug 30 18:42	0°♒00'21	46°25'08
	10213 Apr 23 11:31	0°♏			10215 Sep 28 06:42	0°♒	
	10213 May 17 15:20	0°♐			10215 Oct 24 18:51	0°♓	
asc. node	10213 May 31 16:22	17°♐19'15		asc. node	10215 Nov 16 16:13	26°♓46'42	
	10213 Jun 11 00:44	0°♑			10215 Nov 19 09:29	0°♔	
	10213 Jul 05 20:47	0°♒			10215 Dec 14 10:54	0°♓	
	10213 Jul 31 12:45	0°♓			10216 Jan 08 03:18	0°♔	
	10213 Aug 28 00:31	0°♔			10216 Feb 01 13:37	0°♕	
evening max el	10213 Sep 03 23:57	7°♔01'00	46°05'02	morning set	10216 Feb 25 18:13	29°♕55'35	
desc. node	10213 Sep 20 13:57	22°♔05'09			10216 Feb 25 19:38	0°♌	
	10213 Oct 01 07:07	0°♕		desc. node	10216 Mar 07 08:35	13°♌05'39	
greatest brilliancy	10213 Oct 12 23:40	6°♕02'18	-4.8m		10216 Mar 20 22:13	0°♍	
retrograde	10213 Oct 23 10:16	8°♕01'54		max. Earth dist.	10216 Apr 02 13:54	15°♍48'29	1.71690 AU
evening set	10213 Nov 10 16:53	1°♕46'59					
	10213 Nov 13 13:49	30°♌♎		superior conj	10216 Apr 05 12:00	19°♍27'46	-1°03'32
inferior conj	10213 Nov 14 00:01	29°♎43'57	-8°40'21	minimum elong	10216 Apr 05 00:25	18°♍51'32	1°03'14
minimum elong	10213 Nov 13 22:54	29°♎45'42	8°39'57		10216 Apr 13 21:53	0°♎	
min. Earth dist.	10213 Nov 13 20:42	29°♎49'10	0.29096 AU		10216 May 07 19:42	0°♏	
morning rise	10213 Nov 17 04:57	27°♎44'10		evening rise	10216 May 15 13:49	9°♏44'20	
direct	10213 Dec 05 10:58	21°♎28'29			10216 May 31 17:28	0°♐	
greatest brilliancy	10213 Dec 15 19:56	23°♎25'00	-4.7m		10216 Jun 24 17:27	0°♑	
	10213 Dec 28 11:01	0°♒		asc. node	10216 Jun 28 04:06	4°♑17'17	

	10216 Jul 18 21:52	0°♍			10219 Feb 15 15:15	0°♍		
	10216 Aug 12 09:18	0°♌			10219 Mar 12 04:18	0°♋		
	10216 Sep 06 07:52	0°♍	desc. node		10219 Apr 04 21:43	29°♋20'24		
	10216 Oct 02 01:39	0°♌			10219 Apr 05 10:27	0°♍		
desc. node	10216 Oct 18 00:38	17°♌50'20			10219 Apr 29 11:42	0°♋		
	10216 Oct 29 09:01	0°♌	morning set		10219 May 11 13:32	15°♋08'02		
evening max el	10216 Nov 14 03:19	15°♌51'54 45°46'36			10219 May 23 09:47	0°♌		
	10216 Nov 30 01:40	0°♍			10219 Jun 16 06:47	0°♌		
greatest brilliancy	10216 Dec 23 05:02	13°♍58'47 -4.7m						
retrograde	10217 Jan 01 21:31	15°♍40'32	superior conj		10219 Jun 20 20:28	5°♌44'17 -1°13'44		
evening set	10217 Jan 17 12:34	10°♍57'31	minimum elong		10219 Jun 21 07:13	6°♌18'01 1°13'55		
inferior conj	10217 Jan 23 01:21	7°♍37'19 -3°50'13	max. Earth dist.		10219 Jun 22 15:23	7°♌58'58 1.71395 AU		
minimum elong	10217 Jan 23 09:16	7°♍24'58 3°47'37			10219 Jul 10 04:48	0°♌		
min. Earth dist.	10217 Jan 23 17:40	7°♍11'53 0.28269 AU	asc. node		10219 Jul 26 16:22	20°♌35'57		
morning rise	10217 Jan 29 05:30	3°♍55'14	evening rise		10219 Jul 30 21:35	25°♌51'31		
asc. node	10217 Feb 08 00:58	0°♍01'10			10219 Aug 03 05:21	0°♍		
	10217 Feb 08 03:08	30°♋♌			10219 Aug 27 09:26	0°♌		
direct	10217 Feb 13 08:19	29°♌26'51			10219 Sep 20 18:17	0°♍		
	10217 Feb 18 16:21	0°♍			10219 Oct 15 10:07	0°♌		
greatest brilliancy	10217 Feb 24 07:56	1°♍41'27 -4.8m			10219 Nov 09 12:22	0°♌		
	10217 Apr 02 18:08	0°♋	desc. node		10219 Nov 15 11:34	7°♌01'59		
morning max el	10217 Apr 04 11:31	1°♋42'51 46°35'37			10219 Dec 05 06:05	0°♍		
	10217 Apr 30 21:04	0°♍			10220 Jan 01 01:11	0°♋		
	10217 May 26 18:18	0°♋	evening max el		10220 Jan 25 18:31	25°♋39'28 46°11'04		
desc. node	10217 May 30 21:20	4°♋54'22			10220 Jan 30 07:09	0°♍		
	10217 Jun 20 17:30	0°♌	greatest brilliancy		10220 Mar 05 13:13	25°♍08'38 -4.8m		
	10217 Jul 15 06:32	0°♌	asc. node		10220 Mar 07 11:48	25°♍45'58		
	10217 Aug 08 15:29	0°♌	retrograde		10220 Mar 15 08:09	26°♍56'10		
	10217 Sep 01 23:23	0°♍	evening set		10220 Mar 30 21:17	22°♍14'02		
asc. node	10217 Sep 20 16:16	23°♍04'05	inferior conj		10220 Apr 05 02:39	19°♍06'42 6°36'08		
	10217 Sep 26 07:07	0°♌	minimum elong		10220 Apr 04 15:36	19°♍23'47 6°33'33		
morning set	10217 Oct 06 19:37	12°♌58'48	min. Earth dist.		10220 Apr 05 01:24	19°♍08'38 0.27296 AU		
	10217 Oct 20 14:38	0°♍	morning rise		10220 Apr 09 09:41	16°♍30'24		
			direct		10220 Apr 25 21:10	11°♍12'21		
superior conj	10217 Nov 12 18:51	28°♍36'13 1°25'52	greatest brilliancy		10220 May 05 21:08	13°♍04'51 -4.9m		
minimum elong	10217 Nov 12 17:20	28°♍31'34 1°26'14			10220 May 31 13:22	0°♋		
max. Earth dist.	10217 Nov 13 11:36	29°♍27'56 1.73220 AU	morning max el		10220 Jun 15 08:32	13°♋59'18 46°58'53		
	10217 Nov 13 22:00	0°♌	desc. node		10220 Jun 27 09:10	26°♋31'15		
	10217 Dec 08 05:53	0°♌			10220 Jun 30 14:31	0°♌		
evening rise	10217 Dec 19 14:50	14°♌00'18			10220 Jul 27 04:48	0°♌		
	10218 Jan 01 14:53	0°♍			10220 Aug 21 16:50	0°♌		
desc. node	10218 Jan 10 09:04	10°♍45'38			10220 Sep 15 18:01	0°♍		
	10218 Jan 26 01:02	0°♋			10220 Oct 10 13:29	0°♌		
	10218 Feb 19 11:54	0°♍	asc. node		10220 Oct 18 05:22	9°♌18'41		
	10218 Mar 15 23:51	0°♋			10220 Nov 04 04:39	0°♍		
	10218 Apr 09 15:30	0°♌			10220 Nov 28 16:10	0°♌		
asc. node	10218 May 03 07:05	28°♌19'34	morning set		10220 Dec 14 13:36	19°♌33'10		
	10218 May 04 17:06	0°♌			10220 Dec 23 00:59	0°♌		
	10218 May 30 17:50	0°♌			10221 Jan 16 08:04	0°♍		
evening max el	10218 Jun 22 16:51	24°♌29'52 46°45'20	max. Earth dist.		10221 Jan 18 19:00	3°♍02'14 1.72885 AU		
	10218 Jun 28 07:11	0°♍						
greatest brilliancy	10218 Jul 31 22:56	24°♍42'04 -4.8m	superior conj		10221 Jan 20 14:18	5°♍16'08 0°40'19		
retrograde	10218 Aug 11 22:42	26°♍55'51	minimum elong		10221 Jan 20 22:33	5°♍41'39 0°40'21		
desc. node	10218 Aug 23 05:16	24°♍22'38	desc. node		10221 Feb 06 21:40	26°♍41'23		
evening set	10218 Aug 26 17:58	22°♍37'35			10221 Feb 09 13:47	0°♋		
min. Earth dist.	10218 Sep 01 08:50	19°♍17'52 0.27824 AU	evening rise		10221 Feb 28 02:00	22°♋57'54		
inferior conj	10218 Sep 02 01:34	18°♍51'57 -2°26'47			10221 Mar 05 17:56	0°♍		
minimum elong	10218 Sep 01 20:08	19°♍00'21 2°25'17			10221 Mar 29 20:30	0°♋		
morning rise	10218 Sep 07 23:07	15°♍22'03			10221 Apr 22 22:37	0°♌		
direct	10218 Sep 23 02:58	10°♍57'39			10221 May 17 02:49	0°♌		
greatest brilliancy	10218 Oct 02 16:35	12°♍37'50 -4.8m	asc. node		10221 May 30 18:15	16°♌48'59		
	10218 Oct 29 22:25	0°♌			10221 Jun 10 12:45	0°♌		
morning max el	10218 Nov 10 22:16	10°♌53'44 45°45'42			10221 Jul 05 09:44	0°♍		
	10218 Nov 29 18:51	0°♍			10221 Jul 31 03:33	0°♌		
asc. node	10218 Dec 14 04:21	15°♍38'29			10221 Aug 27 20:07	0°♍		
	10218 Dec 26 22:17	0°♌	evening max el		10221 Sep 01 15:08	4°♍47'24 46°06'28		
	10219 Jan 21 15:41	0°♌	desc. node		10221 Sep 19 16:07	21°♍03'40		

	10221 Oct 02 12:04	0°♊		desc. node	10224 Mar 06 10:36	12°♋38'25	
greatest brilliancy	10221 Oct 10 14:07	3°♊51'01	-4.8m		10224 Mar 20 08:59	0°♋	
retrograde	10221 Oct 21 02:53	5°♊52'45		max. Earth dist.	10224 Mar 30 23:34	13°♋14'52	1.71729 AU
	10221 Nov 07 17:59	30°♋					
evening set	10221 Nov 08 07:35	29°♋39'32		superior conj	10224 Apr 03 00:13	17°♋01'59	-1°00'49
inferior conj	10221 Nov 11 16:11	27°♋34'28	-8°38'51	minimum elong	10224 Apr 02 12:43	16°♋26'00	1°00'30
minimum elong	10221 Nov 11 14:17	27°♋37'27	8°38'27		10224 Apr 13 08:44	0°♋	
min. Earth dist.	10221 Nov 11 11:27	27°♋41'54	0.29086 AU		10224 May 07 06:37	0°♋	
morning rise	10221 Nov 14 21:02	25°♋35'04		evening rise	10224 May 13 00:48	7°♋13'45	
direct	10221 Dec 03 02:56	19°♋19'16			10224 May 31 04:29	0°♋	
greatest brilliancy	10221 Dec 13 10:56	21°♋15'09	-4.7m		10224 Jun 24 04:35	0°♋	
	10221 Dec 29 06:16	0°♋		asc. node	10224 Jun 27 05:58	3°♋48'21	
asc. node	10222 Jan 10 15:52	9°♋58'39			10224 Jul 18 09:15	0°♋	
morning max el	10222 Jan 21 05:47	19°♋48'52	45°51'12		10224 Aug 11 21:08	0°♋	
	10222 Jan 31 08:14	0°♋			10224 Sep 05 20:30	0°♋	
	10222 Feb 27 16:58	0°♋			10224 Oct 01 15:52	0°♋	
	10222 Mar 25 08:55	0°♋		desc. node	10224 Oct 17 02:35	17°♋12'04	
	10222 Apr 19 05:35	0°♋			10224 Oct 29 03:04	0°♋	
desc. node	10222 May 02 10:43	16°♋11'29		evening max el	10224 Nov 11 18:42	13°♋39'54	45°46'29
	10222 May 13 15:19	0°♋			10224 Nov 30 12:17	0°♋	
	10222 Jun 06 18:47	0°♋		greatest brilliancy	10224 Dec 20 20:23	11°♋46'13	-4.7m
	10222 Jun 30 19:24	0°♋		retrograde	10224 Dec 30 11:56	13°♋27'05	
	10222 Jul 24 19:47	0°♋		evening set	10225 Jan 15 06:15	8°♋40'38	
morning set	10222 Jul 25 09:02	0°♋41'23		inferior conj	10225 Jan 20 16:39	5°♋23'30	-4°09'01
	10222 Aug 17 21:25	0°♋		minimum elong	10225 Jan 21 01:02	5°♋10'23	4°06'20
asc. node	10222 Aug 23 05:10	6°♋37'18		min. Earth dist.	10225 Jan 21 09:17	4°♋57'29	0.28314 AU
				morning rise	10225 Jan 26 19:21	1°♋42'52	
superior conj	10222 Sep 02 04:28	19°♋00'57	0°23'56		10225 Jan 30 04:20	30°♋	
minimum elong	10222 Sep 01 23:08	18°♋44'20	0°23'33	asc. node	10225 Feb 07 02:59	27°♋30'46	
max. Earth dist.	10222 Sep 04 13:52	21°♋59'09	1.72478 AU	direct	10225 Feb 10 23:59	27°♋12'36	
	10222 Sep 11 00:52	0°♋		greatest brilliancy	10225 Feb 21 23:37	29°♋26'42	-4.8m
	10222 Oct 05 06:25	0°♋			10225 Feb 23 08:13	0°♋	
evening rise	10222 Oct 09 14:06	5°♋20'07		morning max el	10225 Apr 02 01:41	29°♋23'29	46°33'59
	10222 Oct 29 14:45	0°♋			10225 Apr 02 16:16	0°♋	
	10222 Nov 23 03:04	0°♋			10225 Apr 30 13:00	0°♋	
desc. node	10222 Dec 12 23:02	24°♋05'12			10225 May 26 08:00	0°♋	
	10222 Dec 17 20:28	0°♋		desc. node	10225 May 29 23:12	4°♋19'43	
	10223 Jan 11 19:43	0°♋			10225 Jun 20 06:06	0°♋	
	10223 Feb 06 02:27	0°♋			10225 Jul 14 18:28	0°♋	
	10223 Mar 03 22:34	0°♋			10225 Aug 08 02:57	0°♋	
	10223 Mar 31 03:27	0°♋			10225 Sep 01 10:31	0°♋	
asc. node	10223 Apr 04 22:22	4°♋58'36		asc. node	10225 Sep 19 18:13	22°♋36'20	
evening max el	10223 Apr 08 15:05	8°♋43'34	46°49'09		10225 Sep 25 18:01	0°♋	
	10223 May 02 10:40	0°♋		morning set	10225 Oct 04 11:47	10°♋47'15	
greatest brilliancy	10223 May 19 05:31	9°♋34'17	-4.9m		10225 Oct 20 01:23	0°♋	
retrograde	10223 May 29 00:20	11°♋22'50					
evening set	10223 Jun 15 05:33	5°♋38'58		superior conj	10225 Nov 10 12:12	26°♋28'41	1°25'33
inferior conj	10223 Jun 18 16:03	3°♋34'03	7°59'03	minimum elong	10225 Nov 10 09:59	26°♋21'50	1°25'55
minimum elong	10223 Jun 19 01:57	3°♋18'53	7°56'59	max. Earth dist.	10225 Nov 11 05:23	27°♋21'39	1.73210 AU
min. Earth dist.	10223 Jun 18 21:34	3°♋25'35	0.27126 AU		10225 Nov 13 08:43	0°♋	
morning rise	10223 Jun 22 22:24	1°♋00'28			10225 Dec 07 16:39	0°♋	
	10223 Jun 24 17:47	30°♋		evening rise	10225 Dec 17 07:22	11°♋50'07	
direct	10223 Jul 09 08:55	25°♋46'16			10226 Jan 01 01:48	0°♋	
greatest brilliancy	10223 Jul 19 05:18	27°♋35'55	-4.9m	desc. node	10226 Jan 09 11:03	10°♋18'01	
	10223 Jul 24 17:50	0°♋			10226 Jan 25 12:11	0°♋	
desc. node	10223 Jul 25 20:25	0°♋34'45			10226 Feb 18 23:24	0°♋	
morning max el	10223 Aug 28 09:14	27°♋41'33	46°26'40		10226 Mar 15 11:51	0°♋	
	10223 Aug 30 17:04	0°♋			10226 Apr 09 04:16	0°♋	
	10223 Sep 27 22:39	0°♋		asc. node	10226 May 02 08:57	27°♋43'42	
	10223 Oct 24 08:17	0°♋			10226 May 04 07:13	0°♋	
asc. node	10223 Nov 15 18:01	26°♋15'40			10226 May 30 10:47	0°♋	
	10223 Nov 18 21:39	0°♋		evening max el	10226 Jun 20 06:40	22°♋07'50	46°46'11
	10223 Dec 13 22:21	0°♋			10226 Jun 28 08:41	0°♋	
	10224 Jan 07 14:21	0°♋		greatest brilliancy	10226 Jul 29 15:26	22°♋25'05	-4.8m
	10224 Feb 01 00:26	0°♋		retrograde	10226 Aug 09 13:04	24°♋37'13	
morning set	10224 Feb 23 08:35	27°♋37'56		desc. node	10226 Aug 22 07:23	21°♋22'57	
	10224 Feb 25 06:23	0°♋		evening set	10226 Aug 24 08:02	20°♋20'11	

min. Earth dist.	10226 Aug 30 00:27	16° \cap 58'32	0.27773 AU	evening rise	10229 Feb 25 16:26	20° X 39'34	
inferior conj	10226 Aug 30 16:01	16° \cap 34'25	-2°05'24		10229 Mar 05 04:58	0° Υ	
minimum elong	10226 Aug 30 11:20	16° \cap 41'40	2°04'06		10229 Mar 29 07:43	0° B	
morning rise	10226 Sep 05 15:19	13° \cap 01'54			10229 Apr 22 10:06	0° II	
direct	10226 Sep 20 16:24	8° \cap 40'41			10229 May 16 14:38	0° G	
greatest brilliancy	10226 Sep 30 07:21	10° \cap 21'33	-4.8m	asc. node	10229 May 29 20:13	16° G 18'01	
	10226 Oct 30 03:26	0° L			10229 Jun 10 01:06	0° Q	
morning max el	10226 Nov 08 11:41	8° L 35'58	45°46'28		10229 Jul 04 23:01	0° \cap	
	10226 Nov 29 12:08	0° M			10229 Jul 30 18:48	0° L	
asc. node	10226 Dec 13 06:20	15° M 01'41			10229 Aug 27 16:42	0° M	
	10226 Dec 26 12:15	0° J		evening max el	10229 Aug 30 07:11	2° M 35'07	46°07'44
	10227 Jan 21 04:12	0° Z		desc. node	10229 Sep 18 18:00	19° M 59'01	
	10227 Feb 15 03:03	0° \approx			10229 Oct 04 07:30	0° J	
	10227 Mar 11 15:43	0° X		greatest brilliancy	10229 Oct 08 04:26	1° J 38'32	-4.8m
desc. node	10227 Apr 03 23:38	28° X 51'37		retrograde	10229 Oct 18 19:41	3° J 42'15	
	10227 Apr 04 21:39	0° Υ			10229 Nov 01 12:46	30° R M	
	10227 Apr 28 22:45	0° B		evening set	10229 Nov 05 21:58	27° M 31'25	
morning set	10227 May 09 00:32	12° B 37'27		inferior conj	10229 Nov 09 08:18	25° M 23'45	-8°36'40
	10227 May 22 20:45	0° II		minimum elong	10229 Nov 09 05:38	25° M 27'57	8°36'13
	10227 Jun 15 17:45	0° G		min. Earth dist.	10229 Nov 09 01:59	25° M 33'40	0.29074 AU
				morning rise	10229 Nov 12 13:23	23° M 24'13	
superior conj	10227 Jun 18 08:22	3° G 16'36	-1°15'46	direct	10229 Nov 30 19:17	17° M 09'01	
minimum elong	10227 Jun 18 18:41	3° G 49'00	1°15'59	greatest brilliancy	10229 Dec 11 01:24	19° M 03'37	-4.7m
max. Earth dist.	10227 Jun 19 20:18	5° G 09'25	1.71377 AU		10229 Dec 29 21:01	0° J	
	10227 Jul 09 15:46	0° Q		asc. node	10230 Jan 09 17:55	9° J 03'04	
asc. node	10227 Jul 25 18:24	20° Q 08'02		morning max el	10230 Jan 18 22:13	17° J 38'28	45°50'09
evening rise	10227 Jul 28 10:45	23° Q 28'40			10230 Jan 31 02:53	0° Z	
	10227 Aug 02 16:22	0° \cap			10230 Feb 27 07:33	0° \approx	
	10227 Aug 26 20:32	0° L			10230 Mar 24 21:52	0° X	
	10227 Sep 20 05:35	0° M			10230 Apr 18 17:42	0° Υ	
	10227 Oct 14 21:50	0° J		desc. node	10230 May 01 12:30	15° Υ 40'25	
	10227 Nov 09 00:52	0° Z			10230 May 13 02:59	0° B	
desc. node	10227 Nov 14 13:29	6° Z 30'15			10230 Jun 06 06:09	0° II	
	10227 Dec 04 20:01	0° \approx			10230 Jun 30 06:33	0° G	
	10227 Dec 31 18:08	0° X		morning set	10230 Jul 22 22:50	28° G 20'27	
evening max el	10228 Jan 23 08:05	23° X 19'14	46°09'47		10230 Jul 24 06:44	0° Q	
	10228 Jan 30 09:06	0° Υ			10230 Aug 17 08:14	0° \cap	
greatest brilliancy	10228 Mar 03 02:15	22° Υ 45'29	-4.8m	asc. node	10230 Aug 22 07:05	6° \cap 09'41	
asc. node	10228 Mar 06 13:50	23° Υ 47'20					
retrograde	10228 Mar 12 21:35	24° Υ 33'33		superior conj	10230 Aug 30 19:38	16° \cap 45'27	0°20'33
evening set	10228 Mar 28 07:15	19° Υ 55'36		minimum elong	10230 Aug 30 14:59	16° \cap 31'00	0°20'10
inferior conj	10228 Apr 02 16:07	16° Υ 43'42	6°19'11	max. Earth dist.	10230 Sep 02 08:18	19° \cap 53'55	1.72441 AU
minimum elong	10228 Apr 02 05:06	17° Υ 00'41	6°16'31		10230 Sep 10 11:37	0° L	
min. Earth dist.	10228 Apr 02 15:12	16° Υ 45'07	0.27309 AU		10230 Oct 04 17:12	0° M	
morning rise	10228 Apr 07 02:42	14° Υ 02'28		evening rise	10230 Oct 07 07:11	3° M 11'24	
direct	10228 Apr 23 10:46	8° Υ 48'43			10230 Oct 29 01:40	0° J	
greatest brilliancy	10228 May 03 11:54	10° Υ 42'39	-4.9m		10230 Nov 22 14:13	0° Z	
	10228 May 31 19:36	0° B		desc. node	10230 Dec 12 00:59	23° Z 36'28	
morning max el	10228 Jun 12 22:56	11° B 37'45	46°59'11		10230 Dec 17 08:02	0° \approx	
desc. node	10228 Jun 26 11:13	25° B 45'55			10231 Jan 11 07:59	0° X	
	10228 Jun 30 08:38	0° II			10231 Feb 05 15:52	0° Υ	
	10228 Jul 26 19:30	0° G			10231 Mar 03 14:04	0° B	
	10228 Aug 21 05:55	0° Q			10231 Mar 30 23:54	0° II	
	10228 Sep 15 06:11	0° \cap		asc. node	10231 Apr 04 00:14	4° II 07'39	
	10228 Oct 10 01:03	0° L		evening max el	10231 Apr 06 05:35	6° II 22'16	46°48'11
asc. node	10228 Oct 17 07:11	8° L 49'24			10231 May 03 08:58	0° G	
	10228 Nov 03 15:49	0° M		greatest brilliancy	10231 May 16 18:51	7° G 08'59	-4.9m
	10228 Nov 28 03:05	0° J		retrograde	10231 May 26 13:35	8° G 56'55	
morning set	10228 Dec 12 06:45	17° J 24'46		evening set	10231 Jun 12 21:57	3° G 08'20	
	10228 Dec 22 11:48	0° Z		inferior conj	10231 Jun 16 04:52	1° G 08'25	8°10'50
	10229 Jan 15 18:52	0° \approx		minimum elong	10231 Jun 16 14:15	0° G 54'01	8°08'58
max. Earth dist.	10229 Jan 16 15:22	1° \approx 03'20	1.72915 AU	min. Earth dist.	10231 Jun 16 10:10	1° G 00'17	0.27125 AU
					10231 Jun 18 01:36	30° R II	
superior conj	10229 Jan 18 06:02	3° \approx 02'53	0°43'19	morning rise	10231 Jun 20 06:38	28° II 41'15	
minimum elong	10229 Jan 18 14:41	3° \approx 29'38	0°43'22	direct	10231 Jul 06 22:07	23° II 20'49	
desc. node	10229 Feb 05 23:38	26° \approx 13'48		greatest brilliancy	10231 Jul 16 17:17	25° II 09'27	-4.9m
	10229 Feb 09 00:40	0° X		desc. node	10231 Jul 24 22:25	29° II 01'03	

	10231 Jul 26 14:15	0°☿			10234 Feb 18 10:48	0°♄		
morning max el	10231 Aug 25 22:59	25°☿20'26	46°28'22		10234 Mar 14 23:46	0°♄		
	10231 Aug 30 14:49	0°♁			10234 Apr 08 17:00	0°♂		
	10231 Sep 27 14:23	0°♁		asc. node	10234 May 01 10:57	27°♂08'24		
	10231 Oct 23 21:38	0°♁			10234 May 03 21:22	0°☿		
asc. node	10231 Nov 14 19:59	25°♁45'08			10234 May 30 03:55	0°♁		
	10231 Nov 18 09:48	0°♂		evening max el	10234 Jun 17 19:54	19°♁44'44	46°47'05	
	10231 Dec 13 09:50	0°♂			10234 Jun 28 11:26	0°♁		
	10232 Jan 07 01:27	0°☿		greatest brilliancy	10234 Jul 27 07:18	20°♁07'28	-4.8m	
	10232 Jan 31 11:21	0°♁		retrograde	10234 Aug 07 03:20	22°♁18'45		
morning set	10232 Feb 20 22:58	25°♁20'08		desc. node	10234 Aug 21 09:19	18°♁19'20		
	10232 Feb 24 17:13	0°♂		evening set	10234 Aug 21 22:06	18°♁02'16		
desc. node	10232 Mar 05 12:27	12°♂10'30		min. Earth dist.	10234 Aug 27 15:53	14°♁39'04	0.27725 AU	
	10232 Mar 19 19:49	0°♄		inferior conj	10234 Aug 28 06:17	14°♁16'48	-1°43'34	
max. Earth dist.	10232 Mar 28 07:50	10°♄36'53	1.71768 AU	minimum elong	10234 Aug 28 02:22	14°♁22'50	1°42'30	
				morning rise	10234 Sep 03 07:14	10°♁42'03		
superior conj	10232 Mar 31 12:29	14°♄36'23	-0°58'00	direct	10234 Sep 18 05:35	6°♁23'24		
minimum elong	10232 Mar 31 01:09	14°♄00'57	0°57'39	greatest brilliancy	10234 Sep 27 22:14	8°♁05'34	-4.8m	
	10232 Apr 12 19:36	0°♄			10234 Oct 30 06:25	0°♁		
	10232 May 06 17:34	0°♂		morning max el	10234 Nov 06 01:48	6°♁20'23	45°47'30	
evening rise	10232 May 10 11:50	4°♂43'18			10234 Nov 29 04:46	0°♂		
	10232 May 30 15:32	0°☿		asc. node	10234 Dec 12 08:21	14°♂26'04		
	10232 Jun 23 15:49	0°♁			10234 Dec 26 01:46	0°♂		
asc. node	10232 Jun 26 08:01	3°♁19'45			10235 Jan 20 16:21	0°☿		
	10232 Jul 17 20:44	0°♁			10235 Feb 14 14:31	0°♁		
	10232 Aug 11 09:01	0°♁			10235 Mar 11 02:50	0°♂		
	10232 Sep 05 09:10	0°♂		desc. node	10235 Apr 03 01:29	28°♂23'21		
	10232 Oct 01 06:09	0°♂			10235 Apr 04 08:35	0°♄		
desc. node	10232 Oct 16 04:30	16°♂33'41			10235 Apr 28 09:34	0°♄		
	10232 Oct 28 21:27	0°☿		morning set	10235 May 06 11:14	10°♄06'36		
evening max el	10232 Nov 09 09:13	11°☿26'11	45°46'20		10235 May 22 07:31	0°♂		
	10232 Dec 01 02:21	0°♁			10235 Jun 15 04:28	0°☿		
greatest brilliancy	10232 Dec 18 11:57	9°♁34'21	-4.7m					
retrograde	10232 Dec 28 02:13	11°♁14'28		superior conj	10235 Jun 15 19:52	0°☿48'24	-1°17'40	
evening set	10233 Jan 13 00:07	6°♁24'10		minimum elong	10235 Jun 16 05:41	1°☿19'12	1°17'54	
inferior conj	10233 Jan 18 08:08	3°♁10'23	-4°27'16	max. Earth dist.	10235 Jun 17 02:16	2°☿23'50	1.71359 AU	
minimum elong	10233 Jan 18 16:56	2°♁56'36	4°24'32		10235 Jul 09 02:29	0°♁		
min. Earth dist.	10233 Jan 19 01:16	2°♁43'33	0.28364 AU	asc. node	10235 Jul 24 20:15	19°♁40'24		
	10233 Jan 23 13:04	30°♂3		evening rise	10235 Jul 25 23:38	21°♁05'47		
morning rise	10233 Jan 24 09:13	29°☿31'32			10235 Aug 02 03:06	0°♁		
asc. node	10233 Feb 06 04:59	25°☿06'00			10235 Aug 26 07:22	0°♁		
direct	10233 Feb 08 15:25	24°☿58'52			10235 Sep 19 16:39	0°♂		
greatest brilliancy	10233 Feb 19 16:07	27°☿13'21	-4.8m		10235 Oct 14 09:19	0°♂		
	10233 Feb 25 13:43	0°♁			10235 Nov 08 13:07	0°☿		
morning max el	10233 Mar 30 15:42	27°♁03'55	46°32'24	desc. node	10235 Nov 13 15:32	5°☿59'41		
	10233 Apr 02 13:31	0°♂			10235 Dec 04 09:43	0°♁		
	10233 Apr 30 04:36	0°♄			10235 Dec 31 10:59	0°♂		
	10233 May 25 21:29	0°♄		evening max el	10236 Jan 20 22:29	21°♂02'29	46°08'32	
desc. node	10233 May 29 01:17	3°♄46'10			10236 Jan 30 12:01	0°♄		
	10233 Jun 19 18:30	0°♂		greatest brilliancy	10236 Feb 29 14:36	20°♄23'00	-4.8m	
	10233 Jul 14 06:13	0°☿		asc. node	10236 Mar 05 15:41	21°♄44'57		
	10233 Aug 07 14:18	0°♁		retrograde	10236 Mar 10 11:20	22°♄12'05		
	10233 Aug 31 21:33	0°♁		evening set	10236 Mar 25 17:28	17°♄38'03		
asc. node	10233 Sep 18 20:03	22°♁08'31		inferior conj	10236 Mar 31 05:34	14°♄21'39	6°01'34	
	10233 Sep 25 04:48	0°♁		minimum elong	10236 Mar 30 18:41	14°♄38'26	5°58'50	
morning set	10233 Oct 02 04:01	8°♁36'09		min. Earth dist.	10236 Mar 31 04:39	14°♄23'04	0.27328 AU	
	10233 Oct 19 12:00	0°♂		morning rise	10236 Apr 04 19:41	11°♄35'36		
				direct	10236 Apr 21 00:55	6°♄26'14		
superior conj	10233 Nov 08 05:47	24°♂22'22	1°25'08	greatest brilliancy	10236 May 01 02:13	8°♄20'51	-4.9m	
minimum elong	10233 Nov 08 02:52	24°♂13'20	1°25'28		10236 May 31 23:33	0°♄		
max. Earth dist.	10233 Nov 08 22:50	25°♂14'57	1.73198 AU	morning max el	10236 Jun 10 13:54	9°♄18'27	46°59'13	
	10233 Nov 12 19:15	0°♂		desc. node	10236 Jun 25 13:11	25°♄01'39		
	10233 Dec 07 03:13	0°☿			10236 Jun 30 02:07	0°♂		
evening rise	10233 Dec 15 00:10	9°☿41'29			10236 Jul 26 09:46	0°☿		
	10233 Dec 31 12:32	0°♁			10236 Aug 20 18:39	0°♁		
desc. node	10234 Jan 08 13:03	9°♁51'01			10236 Sep 14 17:59	0°♁		
	10234 Jan 24 23:12	0°♂			10236 Oct 09 12:15	0°♁		

asc. node	10236 Oct 16 09:08	8° Ω 21'32			10239 May 04 14:48	0° \mathfrak{D}	
	10236 Nov 03 02:38	0° \mathfrak{M}		greatest brilliancy	10239 May 14 08:39	4° \mathfrak{D} 45'47	-4.9m
	10236 Nov 27 13:41	0° \mathfrak{A}		retrograde	10239 May 24 02:16	6° \mathfrak{D} 32'37	
morning set	10236 Dec 09 23:56	15° \mathfrak{A} 17'27		evening set	10239 Jun 10 14:22	0° \mathfrak{D} 39'29	
	10236 Dec 21 22:17	0° \mathfrak{Z}			10239 Jun 11 16:36	30° \mathfrak{R} II	
max. Earth dist.	10237 Jan 14 11:17	29° \mathfrak{Z} 04'10	1.72938 AU	inferior conj	10239 Jun 13 17:51	28° \mathfrak{II} 44'29	8°21'40
	10237 Jan 15 05:21	0° \approx		minimum elong	10239 Jun 14 02:39	28° \mathfrak{II} 30'57	8°19'59
				min. Earth dist.	10239 Jun 13 23:09	28° \mathfrak{II} 36'20	0.27127 AU
superior conj	10237 Jan 15 21:58	0° \approx 51'23	0°46'15	morning rise	10239 Jun 17 14:59	26° \mathfrak{II} 23'42	
minimum elong	10237 Jan 16 06:58	1° \approx 19'11	0°46'17	direct	10239 Jul 04 11:05	20° \mathfrak{II} 56'53	
desc. node	10237 Feb 05 01:28	25° \approx 46'57		greatest brilliancy	10239 Jul 14 06:00	22° \mathfrak{II} 45'01	-4.9m
	10237 Feb 08 11:12	0° \mathfrak{H}		desc. node	10239 Jul 24 00:22	27° \mathfrak{II} 31'43	
evening rise	10237 Feb 23 07:05	18° \mathfrak{H} 23'11			10239 Jul 27 20:00	0° \mathfrak{D}	
	10237 Mar 04 15:36	0° \mathfrak{Y}		morning max el	10239 Aug 23 11:52	22° \mathfrak{D} 57'43	46°29'50
	10237 Mar 28 18:35	0° \mathfrak{B}			10239 Aug 30 11:29	0° \mathfrak{Q}	
	10237 Apr 21 21:15	0° \mathfrak{II}			10239 Sep 27 05:40	0° \mathfrak{M}	
	10237 May 16 02:10	0° \mathfrak{D}			10239 Oct 23 10:42	0° \mathfrak{L}	
asc. node	10237 May 28 22:13	15° \mathfrak{D} 47'56		asc. node	10239 Nov 13 22:01	25° \mathfrak{L} 15'26	
	10237 Jun 09 13:13	0° \mathfrak{Q}			10239 Nov 17 21:42	0° \mathfrak{M}	
	10237 Jul 04 12:10	0° \mathfrak{M}			10239 Dec 12 21:04	0° \mathfrak{A}	
	10237 Jul 30 10:02	0° \mathfrak{L}			10240 Jan 06 12:19	0° \mathfrak{Z}	
	10237 Aug 27 13:44	0° \mathfrak{M}			10240 Jan 30 22:01	0° \approx	
evening max el	10237 Aug 27 23:32	0° \mathfrak{M} 24'09	46°09'06	morning set	10240 Feb 18 13:16	23° \approx 02'46	
desc. node	10237 Sep 17 19:57	18° \mathfrak{M} 53'29			10240 Feb 24 03:50	0° \mathfrak{H}	
greatest brilliancy	10237 Oct 05 19:00	29° \mathfrak{M} 26'56	-4.8m	desc. node	10240 Mar 04 14:20	11° \mathfrak{H} 43'21	
	10237 Oct 07 09:06	0° \mathfrak{A}			10240 Mar 19 06:26	0° \mathfrak{Y}	
retrograde	10237 Oct 16 12:06	1° \mathfrak{A} 31'58		max. Earth dist.	10240 Mar 25 16:19	8° \mathfrak{Y} 00'17	1.71807 AU
	10237 Oct 25 05:42	30° \mathfrak{R} III					
evening set	10237 Nov 03 11:57	25° \mathfrak{M} 24'13		superior conj	10240 Mar 29 00:55	12° \mathfrak{Y} 12'03	-0°55'05
min. Earth dist.	10237 Nov 06 16:23	23° \mathfrak{M} 25'48	0.29055 AU	minimum elong	10240 Mar 28 13:48	11° \mathfrak{Y} 37'19	0°54'42
inferior conj	10237 Nov 07 00:15	23° \mathfrak{M} 13'27	-8°33'51		10240 Apr 12 06:15	0° \mathfrak{B}	
minimum elong	10237 Nov 06 20:50	23° \mathfrak{M} 18'49	8°33'19		10240 May 06 04:15	0° \mathfrak{II}	
morning rise	10237 Nov 10 05:50	21° \mathfrak{M} 13'12		evening rise	10240 May 07 23:12	2° \mathfrak{II} 14'44	
direct	10237 Nov 28 11:40	14° \mathfrak{M} 59'21			10240 May 30 02:18	0° \mathfrak{D}	
greatest brilliancy	10237 Dec 08 15:22	16° \mathfrak{M} 52'06	-4.7m		10240 Jun 23 02:44	0° \mathfrak{Q}	
	10237 Dec 30 07:35	0° \mathfrak{A}		asc. node	10240 Jun 25 09:53	2° \mathfrak{Q} 51'32	
asc. node	10238 Jan 08 19:51	8° \mathfrak{A} 09'11			10240 Jul 17 07:56	0° \mathfrak{M}	
morning max el	10238 Jan 16 14:01	15° \mathfrak{A} 27'29	45°49'11		10240 Aug 10 20:42	0° \mathfrak{L}	
	10238 Jan 30 20:41	0° \mathfrak{Z}			10240 Sep 04 21:43	0° \mathfrak{M}	
	10238 Feb 26 21:35	0° \approx			10240 Sep 30 20:28	0° \mathfrak{A}	
	10238 Mar 24 10:20	0° \mathfrak{H}		desc. node	10240 Oct 15 06:36	15° \mathfrak{A} 55'36	
	10238 Apr 18 05:23	0° \mathfrak{Y}			10240 Oct 28 16:14	0° \mathfrak{Z}	
desc. node	10238 Apr 30 14:33	15° \mathfrak{Y} 11'32		evening max el	10240 Nov 06 22:55	9° \mathfrak{Z} 10'42	45°46'19
	10238 May 12 14:13	0° \mathfrak{B}			10240 Dec 01 21:13	0° \approx	
	10238 Jun 05 17:09	0° \mathfrak{II}		greatest brilliancy	10240 Dec 16 03:10	7° \approx 22'14	-4.7m
	10238 Jun 29 17:22	0° \mathfrak{D}		retrograde	10240 Dec 25 16:40	9° \approx 02'09	
morning set	10238 Jul 20 12:16	25° \mathfrak{D} 59'09		evening set	10241 Jan 10 17:56	4° \approx 07'29	
	10238 Jul 23 17:24	0° \mathfrak{Q}		inferior conj	10241 Jan 15 23:30	0° \approx 57'21	-4°45'07
	10238 Aug 16 18:47	0° \mathfrak{M}		minimum elong	10241 Jan 16 08:40	0° \approx 43'00	4°42'20
asc. node	10238 Aug 21 08:55	5° \mathfrak{M} 42'36		min. Earth dist.	10241 Jan 16 17:07	0° \approx 29'46	0.28414 AU
					10241 Jan 17 12:11	30° \mathfrak{R} III	
superior conj	10238 Aug 28 10:15	14° \mathfrak{M} 28'58	0°17'03	morning rise	10241 Jan 21 22:49	27° \mathfrak{Z} 20'44	
minimum elong	10238 Aug 28 06:21	14° \mathfrak{M} 16'51	0°16'42	asc. node	10241 Feb 05 06:54	22° \mathfrak{Z} 46'11	
max. Earth dist.	10238 Aug 31 02:28	17° \mathfrak{M} 48'30	1.72402 AU	direct	10241 Feb 06 06:37	22° \mathfrak{Z} 45'01	
	10238 Sep 09 22:07	0° \mathfrak{L}		greatest brilliancy	10241 Feb 17 08:51	25° \mathfrak{Z} 00'34	-4.8m
	10238 Oct 04 03:43	0° \mathfrak{M}			10241 Feb 27 00:22	0° \approx	
evening rise	10238 Oct 04 23:45	1° \mathfrak{M} 01'51		morning max el	10241 Mar 28 06:03	24° \approx 45'29	46°30'55
	10238 Oct 28 12:18	0° \mathfrak{A}			10241 Apr 02 09:57	0° \mathfrak{H}	
	10238 Nov 22 01:07	0° \mathfrak{Z}			10241 Apr 29 19:51	0° \mathfrak{Y}	
desc. node	10238 Dec 11 02:59	23° \mathfrak{Z} 08'34			10241 May 25 10:43	0° \mathfrak{B}	
	10238 Dec 16 19:22	0° \approx		desc. node	10241 May 28 03:09	3° \mathfrak{B} 12'38	
	10239 Jan 10 20:02	0° \mathfrak{H}			10241 Jun 19 06:41	0° \mathfrak{II}	
	10239 Feb 05 05:05	0° \mathfrak{Y}			10241 Jul 13 17:45	0° \mathfrak{D}	
	10239 Mar 03 05:27	0° \mathfrak{B}			10241 Aug 07 01:24	0° \mathfrak{Q}	
	10239 Mar 30 20:34	0° \mathfrak{II}			10241 Aug 31 08:22	0° \mathfrak{M}	
asc. node	10239 Apr 03 02:19	3° \mathfrak{II} 17'35		asc. node	10241 Sep 17 22:00	21° \mathfrak{M} 41'37	
evening max el	10239 Apr 03 19:19	4° \mathfrak{II} 00'14	46°47'16		10241 Sep 24 15:26	0° \mathfrak{L}	

morning set	10241 Sep 29 20:12	6°♌25'13		min. Earth dist.	10244 Mar 28 18:04	12°♍00'27	0.27344 AU
	10241 Oct 18 22:31	0°♌		morning rise	10244 Apr 02 12:34	9°♍08'06	
				direct	10244 Apr 18 15:20	4°♍03'22	
superior conj	10241 Nov 05 23:11	22°♌15'37	1°24'34	greatest brilliancy	10244 Apr 28 16:10	5°♍57'55	-4.9m
minimum elong	10241 Nov 05 19:33	22°♌04'25	1°24'53		10244 Jun 01 02:10	0°♌	
max. Earth dist.	10241 Nov 06 15:50	23°♌07'00	1.73191 AU	morning max el	10244 Jun 08 04:34	6°♌57'43	46°59'07
	10241 Nov 12 05:43	0°♌		desc. node	10244 Jun 24 15:05	24°♌17'02	
	10241 Dec 06 13:46	0°♌			10244 Jun 29 19:29	0°♌	
evening rise	10241 Dec 12 16:46	7°♌32'20			10244 Jul 26 00:09	0°♌	
	10241 Dec 30 23:16	0°♌			10244 Aug 20 07:32	0°♌	
desc. node	10242 Jan 07 14:50	9°♌23'24			10244 Sep 14 05:58	0°♌	
	10242 Jan 24 10:13	0°♌			10244 Oct 08 23:37	0°♌	
	10242 Feb 17 22:13	0°♌		asc. node	10244 Oct 15 11:07	7°♌53'21	
	10242 Mar 14 11:45	0°♌			10244 Nov 02 13:37	0°♌	
	10242 Apr 08 05:49	0°♌			10244 Nov 27 00:28	0°♌	
asc. node	10242 Apr 30 12:59	26°♌32'52		morning set	10244 Dec 07 17:27	13°♌10'38	
	10242 May 03 11:40	0°♌			10244 Dec 21 09:00	0°♌	
	10242 May 29 21:24	0°♌		max. Earth dist.	10245 Jan 12 05:49	26°♌59'59	1.72967 AU
evening max el	10242 Jun 15 09:40	17°♌23'19	46°48'12				
	10242 Jun 28 15:42	0°♌		superior conj	10245 Jan 13 14:10	28°♌39'55	0°49'05
greatest brilliancy	10242 Jul 24 22:43	17°♌50'00	-4.8m	minimum elong	10245 Jan 13 23:25	29°♌08'31	0°49'08
retrograde	10242 Aug 04 18:16	20°♌01'20			10245 Jan 14 16:05	0°♌	
evening set	10242 Aug 19 12:34	15°♌44'53		desc. node	10245 Feb 04 03:26	25°♌19'34	
desc. node	10242 Aug 20 11:14	15°♌13'40			10245 Feb 07 22:02	0°♌	
inferior conj	10242 Aug 25 20:44	11°♌59'58	-1°21'34	evening rise	10245 Feb 20 21:41	16°♌05'42	
minimum elong	10242 Aug 25 17:37	12°♌04'45	1°20'47		10245 Mar 04 02:36	0°♌	
min. Earth dist.	10242 Aug 25 07:09	12°♌20'55	0.27678 AU		10245 Mar 28 05:47	0°♌	
morning rise	10242 Aug 31 23:13	8°♌23'29			10245 Apr 21 08:45	0°♌	
direct	10242 Sep 15 19:15	4°♌06'55			10245 May 15 14:04	0°♌	
greatest brilliancy	10242 Sep 25 12:57	5°♌50'11	-4.8m	asc. node	10245 May 28 00:05	15°♌16'22	
	10242 Oct 30 07:44	0°♌			10245 Jun 09 01:44	0°♌	
morning max el	10242 Nov 03 16:54	4°♌07'30	45°48'20		10245 Jul 04 01:46	0°♌	
	10242 Nov 28 21:04	0°♌			10245 Jul 30 01:52	0°♌	
asc. node	10242 Dec 11 10:12	13°♌50'12		evening max el	10245 Aug 25 15:50	28°♌12'01	46°10'31
	10242 Dec 25 15:14	0°♌			10245 Aug 27 11:58	0°♌	
	10243 Jan 20 04:32	0°♌		desc. node	10245 Sep 16 22:05	17°♌45'48	
	10243 Feb 14 02:04	0°♌		greatest brilliancy	10245 Oct 03 10:28	27°♌15'52	-4.8m
	10243 Mar 10 14:03	0°♌		retrograde	10245 Oct 14 04:21	29°♌21'27	
desc. node	10243 Apr 02 03:28	27°♌55'15		evening set	10245 Nov 01 01:58	23°♌17'26	
	10243 Apr 03 19:36	0°♌		inferior conj	10245 Nov 04 16:27	21°♌03'12	-8°30'14
	10243 Apr 27 20:30	0°♌		minimum elong	10245 Nov 04 12:19	21°♌09'42	8°29'39
morning set	10243 May 03 21:52	7°♌35'16		min. Earth dist.	10245 Nov 04 07:15	21°♌17'38	0.29030 AU
	10243 May 21 18:23	0°♌		morning rise	10245 Nov 07 22:47	19°♌01'41	
				direct	10245 Nov 26 04:07	12°♌49'54	
superior conj	10243 Jun 13 07:19	28°♌19'29	-1°19'25	greatest brilliancy	10245 Dec 06 05:34	14°♌40'38	-4.7m
minimum elong	10243 Jun 13 16:31	28°♌48'22	1°19'41		10245 Dec 30 15:26	0°♌	
max. Earth dist.	10243 Jun 14 10:02	29°♌43'25	1.71342 AU	asc. node	10246 Jan 07 21:47	7°♌15'57	
	10243 Jun 14 15:19	0°♌		morning max el	10246 Jan 14 04:57	13°♌13'55	45°48'08
	10243 Jul 08 13:20	0°♌			10246 Jan 30 14:18	0°♌	
evening rise	10243 Jul 23 12:35	18°♌42'45			10246 Feb 26 11:47	0°♌	
asc. node	10243 Jul 23 22:08	19°♌12'32			10246 Mar 23 23:07	0°♌	
	10243 Aug 01 13:56	0°♌			10246 Apr 17 17:26	0°♌	
	10243 Aug 25 18:17	0°♌		desc. node	10246 Apr 29 16:29	14°♌40'59	
	10243 Sep 19 03:46	0°♌			10246 May 12 01:53	0°♌	
	10243 Oct 13 20:54	0°♌			10246 Jun 05 04:32	0°♌	
	10243 Nov 08 01:33	0°♌			10246 Jun 29 04:33	0°♌	
desc. node	10243 Nov 12 17:27	5°♌28'17		morning set	10246 Jul 18 01:27	23°♌35'57	
	10243 Dec 03 23:44	0°♌			10246 Jul 23 04:26	0°♌	
	10243 Dec 31 04:27	0°♌			10246 Aug 16 05:43	0°♌	
evening max el	10244 Jan 18 13:40	18°♌47'05	46°07'12	asc. node	10246 Aug 20 10:55	5°♌14'50	
	10244 Jan 30 17:04	0°♌					
greatest brilliancy	10244 Feb 27 03:06	18°♌00'08	-4.8m	superior conj	10246 Aug 26 00:47	12°♌11'04	0°13'32
asc. node	10244 Mar 04 17:47	19°♌36'57		minimum elong	10246 Aug 25 21:40	12°♌01'24	0°13'12
retrograde	10244 Mar 08 01:08	19°♌49'49		behind sun begin	10246 Aug 25 07:44	11°♌18'05	
evening set	10244 Mar 23 04:00	15°♌19'45		behind sun end	10246 Aug 26 11:36	12°♌44'42	
inferior conj	10244 Mar 28 19:01	11°♌58'59	5°43'15	max. Earth dist.	10246 Aug 28 19:36	15°♌38'43	1.72359 AU
minimum elong	10244 Mar 28 08:21	12°♌15'25	5°40'30		10246 Sep 09 09:01	0°♌	

evening rise	10246 Oct 02 16:22	28° Ω 51'15			10249 Feb 28 00:57	0° \approx	
	10246 Oct 03 14:37	0° \mathbb{L}		morning max el	10249 Mar 25 21:19	22° \approx 29'07	46°29'23
	10246 Oct 27 23:17	0° \mathcal{A}			10249 Apr 02 05:52	0° \mathcal{H}	
	10246 Nov 21 12:20	0° \mathcal{Z}			10249 Apr 29 11:06	0° \mathcal{Y}	
desc. node	10246 Dec 10 04:51	22° \mathcal{Z} 39'22			10249 May 25 00:07	0° \mathcal{B}	
	10246 Dec 16 07:02	0° \approx		desc. node	10249 May 27 05:02	2° \mathcal{B} 38'29	
	10247 Jan 10 08:27	0° \mathcal{H}			10249 Jun 18 19:08	0° \mathbb{I}	
	10247 Feb 04 18:47	0° \mathcal{Y}			10249 Jul 13 05:38	0° \mathcal{G}	
	10247 Mar 02 21:32	0° \mathcal{B}			10249 Aug 06 12:53	0° Ω	
	10247 Mar 30 18:38	0° \mathbb{I}			10249 Aug 30 19:33	0° \mathbb{N}	
evening max el	10247 Apr 01 08:02	1° \mathbb{I} 34'06	46°46'05	asc. node	10249 Sep 16 23:57	21° \mathbb{N} 13'41	
asc. node	10247 Apr 02 04:18	2° \mathbb{I} 24'41			10249 Sep 24 02:23	0° \mathcal{L}	
	10247 May 06 12:08	0° \mathcal{G}		morning set	10249 Sep 27 12:01	4° \mathcal{L} 12'07	
greatest brilliancy	10247 May 11 22:39	2° \mathcal{G} 20'41	-4.9m		10249 Oct 18 09:18	0° \mathbb{L}	
retrograde	10247 May 21 14:29	4° \mathcal{G} 06'15					
	10247 Jun 05 00:17	30° \mathcal{R} \mathbb{I}		superior conj	10249 Nov 03 16:24	20° \mathbb{L} 07'27	1°23'53
evening set	10247 Jun 08 06:27	28° \mathbb{I} 08'41		minimum elong	10249 Nov 03 12:06	19° \mathbb{L} 54'08	1°24'11
inferior conj	10247 Jun 11 06:41	26° \mathbb{I} 18'30	8°31'29	max. Earth dist.	10249 Nov 04 10:19	21° \mathbb{L} 02'43	1.73180 AU
minimum elong	10247 Jun 11 14:49	26° \mathbb{I} 05'58	8°30'00		10249 Nov 11 16:28	0° \mathcal{A}	
min. Earth dist.	10247 Jun 11 12:14	26° \mathbb{I} 09'57	0.27130 AU		10249 Dec 06 00:34	0° \mathcal{Z}	
morning rise	10247 Jun 14 23:12	24° \mathbb{I} 04'14		evening rise	10249 Dec 10 09:32	5° \mathcal{Z} 22'55	
direct	10247 Jul 01 23:27	18° \mathbb{I} 30'45			10249 Dec 30 10:14	0° \approx	
greatest brilliancy	10247 Jul 11 19:03	20° \mathbb{I} 19'07	-4.9m	desc. node	10250 Jan 06 16:50	8° \approx 55'43	
desc. node	10247 Jul 23 02:22	26° \mathbb{I} 03'47			10250 Jan 23 21:26	0° \mathcal{H}	
	10247 Jul 28 18:25	0° \mathcal{G}			10250 Feb 17 09:47	0° \mathcal{Y}	
morning max el	10247 Aug 21 00:12	20° \mathcal{G} 31'59	46°31'28		10250 Mar 13 23:52	0° \mathcal{B}	
	10247 Aug 30 07:59	0° Ω			10250 Apr 07 18:49	0° \mathbb{I}	
	10247 Sep 26 21:08	0° \mathbb{N}		asc. node	10250 Apr 29 14:51	25° \mathbb{I} 56'19	
	10247 Oct 23 00:02	0° \mathcal{L}			10250 May 03 02:15	0° \mathcal{G}	
asc. node	10247 Nov 12 23:47	24° \mathcal{L} 44'03			10250 May 29 15:29	0° Ω	
	10247 Nov 17 09:54	0° \mathbb{L}		evening max el	10250 Jun 13 00:06	15° Ω 02'53	46°48'58
	10247 Dec 12 08:36	0° \mathcal{A}			10250 Jun 28 22:29	0° \mathbb{N}	
	10248 Jan 05 23:27	0° \mathcal{Z}		greatest brilliancy	10250 Jul 22 13:30	15° \mathbb{N} 30'12	-4.8m
	10248 Jan 30 08:58	0° \approx		retrograde	10250 Aug 02 09:21	17° \mathbb{N} 41'48	
morning set	10248 Feb 16 04:12	20° \approx 46'29		evening set	10250 Aug 17 02:55	13° \mathbb{N} 25'11	
	10248 Feb 23 14:44	0° \mathcal{H}		desc. node	10250 Aug 19 13:21	12° \mathbb{N} 02'36	
desc. node	10248 Mar 03 16:20	11° \mathcal{H} 15'46		inferior conj	10250 Aug 23 10:48	9° \mathbb{N} 40'56	-0°59'07
	10248 Mar 18 17:22	0° \mathcal{Y}		minimum elong	10250 Aug 23 08:32	9° \mathbb{N} 44'26	0°58'36
max. Earth dist.	10248 Mar 23 04:31	5° \mathcal{Y} 34'22	1.71854 AU	min. Earth dist.	10250 Aug 22 21:51	10° \mathbb{N} 00'53	0.27634 AU
				morning rise	10250 Aug 29 14:44	6° \mathbb{N} 03'03	
superior conj	10248 Mar 26 13:40	9° \mathcal{Y} 47'47	-0°52'05	direct	10250 Sep 13 09:06	1° \mathbb{N} 48'21	
minimum elong	10248 Mar 26 02:51	9° \mathcal{Y} 14'00	0°51'41	greatest brilliancy	10250 Sep 23 02:54	3° \mathbb{N} 32'16	-4.8m
	10248 Apr 11 17:15	0° \mathcal{B}			10250 Oct 30 08:11	0° \mathcal{L}	
evening rise	10248 May 05 10:35	29° \mathcal{B} 45'03		morning max el	10250 Nov 01 08:13	1° \mathcal{L} 54'10	45°49'17
	10248 May 05 15:21	0° \mathbb{I}			10250 Nov 28 13:18	0° \mathbb{L}	
	10248 May 29 13:31	0° \mathcal{G}		asc. node	10250 Dec 10 12:12	13° \mathbb{L} 14'28	
	10248 Jun 22 14:08	0° Ω			10250 Dec 25 04:44	0° \mathcal{A}	
asc. node	10248 Jun 24 11:46	2° Ω 21'56			10251 Jan 19 16:47	0° \mathcal{Z}	
	10248 Jul 16 19:37	0° \mathbb{N}			10251 Feb 13 13:40	0° \approx	
	10248 Aug 10 08:52	0° \mathcal{L}			10251 Mar 10 01:17	0° \mathcal{H}	
	10248 Sep 04 10:46	0° \mathbb{L}		desc. node	10251 Apr 01 05:22	27° \mathcal{H} 26'52	
	10248 Sep 30 11:23	0° \mathcal{A}			10251 Apr 03 06:37	0° \mathcal{Y}	
desc. node	10248 Oct 14 08:31	15° \mathcal{A} 15'32			10251 Apr 27 07:23	0° \mathcal{B}	
	10248 Oct 28 11:59	0° \mathcal{Z}		morning set	10251 May 01 09:08	5° \mathcal{B} 06'04	
evening max el	10248 Nov 04 12:55	6° \mathcal{Z} 55'05	45°46'31		10251 May 21 05:13	0° \mathbb{I}	
	10248 Dec 02 23:29	0° \approx					
greatest brilliancy	10248 Dec 13 18:05	5° \approx 09'28	-4.7m	superior conj	10251 Jun 10 19:03	25° \mathbb{I} 51'33	-1°20'59
retrograde	10248 Dec 23 07:56	6° \approx 49'57		minimum elong	10251 Jun 11 03:33	26° \mathbb{I} 18'16	1°21'18
evening set	10249 Jan 08 12:01	1° \approx 50'39		max. Earth dist.	10251 Jun 11 20:44	27° \mathbb{I} 12'15	1.71331 AU
	10249 Jan 11 14:23	30° \mathcal{R} \mathcal{Z}			10251 Jun 14 02:08	0° \mathcal{G}	
inferior conj	10249 Jan 13 15:05	28° \mathcal{Z} 44'17	-5°02'21		10251 Jul 08 00:10	0° Ω	
minimum elong	10249 Jan 14 00:35	28° \mathcal{Z} 29'27	4°59'33	evening rise	10251 Jul 21 01:25	16° Ω 19'09	
min. Earth dist.	10249 Jan 14 08:52	28° \mathcal{Z} 16'29	0.28462 AU	asc. node	10251 Jul 23 00:09	18° Ω 44'57	
morning rise	10249 Jan 19 12:32	25° \mathcal{Z} 10'26			10251 Aug 01 00:50	0° \mathbb{N}	
direct	10249 Feb 03 22:10	20° \mathcal{Z} 31'15			10251 Aug 25 05:17	0° \mathcal{L}	
asc. node	10249 Feb 04 08:56	20° \mathcal{Z} 31'30			10251 Sep 18 15:02	0° \mathbb{L}	
greatest brilliancy	10249 Feb 15 01:27	22° \mathcal{Z} 47'47	-4.8m		10251 Oct 13 08:38	0° \mathcal{A}	

	10251 Nov 07 14:08	0°♁			10254 Jun 28 15:21	0°♁		
desc. node	10251 Nov 11 19:23	4°♁56'31		morning set	10254 Jul 15 14:52	21°♁14'30		
	10251 Dec 03 13:59	0°♁			10254 Jul 22 15:04	0°♁		
	10251 Dec 30 22:21	0°♁			10254 Aug 15 16:14	0°♁		
evening max el	10252 Jan 16 04:55	16°♁31'56	46°05'55	asc. node	10254 Aug 19 12:48	4°♁48'04		
	10252 Jan 31 00:13	0°♁						
greatest brilliancy	10252 Feb 24 16:20	15°♁38'34	-4.8m	superior conj	10254 Aug 23 15:37	9°♁55'24	0°10'01	
asc. node	10252 Mar 03 19:48	17°♁24'10		minimum elong	10254 Aug 23 13:19	9°♁48'13	0°09'42	
retrograde	10252 Mar 05 14:41	17°♁27'57		behind sun begin	10254 Aug 22 17:48	8°♁47'33		
evening set	10252 Mar 20 14:53	13°♁01'55		behind sun end	10254 Aug 24 08:50	10°♁48'54		
inferior conj	10252 Mar 26 08:34	9°♁37'04	5°24'24	max. Earth dist.	10254 Aug 26 11:55	13°♁27'42	1.72317 AU	
minimum elong	10252 Mar 25 22:12	9°♁53'04	5°21'41		10254 Sep 08 19:29	0°♁		
min. Earth dist.	10252 Mar 26 07:51	9°♁38'10	0.27356 AU	evening rise	10254 Sep 30 09:10	26°♁42'26		
morning rise	10252 Mar 31 05:23	6°♁41'20			10254 Oct 03 01:08	0°♁		
direct	10252 Apr 16 05:39	1°♁41'24			10254 Oct 27 09:57	0°♁		
greatest brilliancy	10252 Apr 26 06:16	3°♁35'47	-4.9m		10254 Nov 20 23:16	0°♁		
	10252 Jun 01 03:05	0°♁		desc. node	10254 Dec 09 06:51	22°♁11'22		
morning max el	10252 Jun 05 18:20	4°♁35'29	46°59'04		10254 Dec 15 18:27	0°♁		
desc. node	10252 Jun 23 17:08	23°♁34'14			10255 Jan 09 20:39	0°♁		
	10252 Jun 29 12:13	0°♁			10255 Feb 04 08:17	0°♁		
	10252 Jul 25 14:07	0°♁			10255 Mar 02 13:31	0°♁		
	10252 Aug 19 20:08	0°♁		evening max el	10255 Mar 29 19:58	29°♁07'14	46°45'02	
	10252 Sep 13 17:44	0°♁			10255 Mar 30 17:07	0°♁		
	10252 Oct 08 10:52	0°♁		asc. node	10255 Apr 01 06:12	1°♁31'43		
asc. node	10252 Oct 14 12:55	7°♁24'50		greatest brilliancy	10255 May 09 12:32	29°♁56'45	-4.9m	
	10252 Nov 02 00:31	0°♁			10255 May 09 16:17	0°♁		
	10252 Nov 26 11:09	0°♁		retrograde	10255 May 19 03:00	1°♁41'33		
morning set	10252 Dec 05 10:35	11°♁02'54			10255 May 28 06:01	30°♁		
	10252 Dec 20 19:35	0°♁		evening set	10255 Jun 05 22:22	25°♁39'30		
max. Earth dist.	10253 Jan 09 22:48	24°♁51'30	1.72990 AU	inferior conj	10255 Jun 08 19:36	23°♁53'57	8°40'17	
				minimum elong	10255 Jun 09 03:00	23°♁42'33	8°39'01	
superior conj	10253 Jan 11 06:11	26°♁28'25	0°51'51	min. Earth dist.	10255 Jun 09 01:21	23°♁45'05	0.27133 AU	
minimum elong	10253 Jan 11 15:39	26°♁57'40	0°51'54	morning rise	10255 Jun 12 07:37	21°♁46'16		
	10253 Jan 14 02:40	0°♁		direct	10255 Jun 29 11:37	16°♁05'47		
desc. node	10253 Feb 03 05:23	24°♁52'39		greatest brilliancy	10255 Jul 09 08:20	17°♁54'54	-4.9m	
	10253 Feb 07 08:42	0°♁		desc. node	10255 Jul 22 04:23	24°♁40'14		
evening rise	10253 Feb 18 12:13	13°♁48'35			10255 Jul 29 10:24	0°♁		
	10253 Mar 03 13:26	0°♁		morning max el	10255 Aug 18 13:12	18°♁09'15	46°33'15	
	10253 Mar 27 16:50	0°♁			10255 Aug 30 03:17	0°♁		
	10253 Apr 20 20:03	0°♁			10255 Sep 26 11:52	0°♁		
	10253 May 15 01:44	0°♁			10255 Oct 22 12:47	0°♁		
asc. node	10253 May 27 02:04	14°♁45'55		asc. node	10255 Nov 12 01:48	24°♁14'49		
	10253 Jun 08 13:59	0°♁			10255 Nov 16 21:35	0°♁		
	10253 Jul 03 15:06	0°♁			10255 Dec 11 19:41	0°♁		
	10253 Jul 29 17:35	0°♁			10256 Jan 05 10:14	0°♁		
evening max el	10253 Aug 23 07:06	25°♁58'01	46°11'40		10256 Jan 29 19:36	0°♁		
	10253 Aug 27 10:46	0°♁		morning set	10256 Feb 13 18:57	18°♁30'40		
desc. node	10253 Sep 15 23:59	16°♁36'26			10256 Feb 23 01:19	0°♁		
greatest brilliancy	10253 Oct 01 02:19	25°♁05'26	-4.8m	desc. node	10256 Mar 02 18:11	10°♁48'40		
retrograde	10253 Oct 11 20:02	27°♁11'00			10256 Mar 18 03:57	0°♁		
evening set	10253 Oct 29 15:31	21°♁11'14		max. Earth dist.	10256 Mar 20 18:41	3°♁15'43	1.71896 AU	
inferior conj	10253 Nov 02 08:29	18°♁53'04	-8°25'47					
minimum elong	10253 Nov 02 03:38	19°♁00'43	8°25'07	superior conj	10256 Mar 24 02:10	7°♁23'48	-0°48'58	
min. Earth dist.	10253 Nov 01 22:22	19°♁08'59	0.29007 AU	minimum elong	10256 Mar 23 15:44	6°♁51'15	0°48'34	
morning rise	10253 Nov 05 15:54	16°♁49'47			10256 Apr 11 03:53	0°♁		
direct	10253 Nov 23 19:58	10°♁40'27		evening rise	10256 May 02 21:57	27°♁16'35		
greatest brilliancy	10253 Dec 03 20:17	12°♁29'47	-4.7m		10256 May 05 02:03	0°♁		
	10253 Dec 30 20:49	0°♁			10256 May 29 00:21	0°♁		
asc. node	10254 Jan 06 23:50	6°♁24'18			10256 Jun 22 01:09	0°♁		
morning max el	10254 Jan 11 19:00	10°♁58'29	45°47'14	asc. node	10256 Jun 23 13:49	1°♁54'00		
	10254 Jan 30 07:21	0°♁			10256 Jul 16 06:55	0°♁		
	10254 Feb 26 01:36	0°♁			10256 Aug 09 20:39	0°♁		
	10254 Mar 23 11:32	0°♁			10256 Sep 03 23:26	0°♁		
	10254 Apr 17 05:09	0°♁			10256 Sep 30 01:58	0°♁		
desc. node	10254 Apr 28 18:17	14°♁11'09		desc. node	10256 Oct 13 10:30	14°♁36'41		
	10254 May 11 13:11	0°♁			10256 Oct 28 07:47	0°♁		
	10254 Jun 04 15:33	0°♁		evening max el	10256 Nov 02 03:32	4°♁42'29	45°46'41	

	10256 Dec 04 11:56	0°≈		morning set	10259 Apr 28 19:58	2°♄35'55	
greatest brilliancy	10256 Dec 11 08:16	2°≈57'11	-4.7m		10259 May 20 15:58	0°♄	
retrograde	10256 Dec 20 23:29	4°≈38'43					
	10257 Jan 05 12:10	30°♄		superior conj	10259 Jun 08 06:18	23°♄22'18	-1°22'26
evening set	10257 Jan 06 06:07	29°♄34'41		minimum elong	10259 Jun 08 14:02	23°♄46'36	1°22'46
inferior conj	10257 Jan 11 06:34	26°♄32'02	-5°19'01	max. Earth dist.	10259 Jun 09 06:02	24°♄36'55	1.71315 AU
minimum elong	10257 Jan 11 16:19	26°♄16'48	5°16'13		10259 Jun 13 12:53	0°♄	
min. Earth dist.	10257 Jan 12 00:09	26°♄04'35	0.28515 AU		10259 Jul 07 10:54	0°♄	
morning rise	10257 Jan 17 02:01	23°♄01'16		evening rise	10259 Jul 18 13:47	13°♄54'24	
direct	10257 Feb 01 14:08	18°♄18'18		asc. node	10259 Jul 22 02:00	18°♄17'13	
asc. node	10257 Feb 03 10:55	18°♄22'25			10259 Jul 31 11:36	0°♄	
greatest brilliancy	10257 Feb 12 17:32	20°♄35'14	-4.8m		10259 Aug 24 16:10	0°♄	
	10257 Feb 28 18:38	0°≈			10259 Sep 18 02:10	0°♄	
morning max el	10257 Mar 23 13:28	20°≈15'48	46°27'49		10259 Oct 12 20:15	0°♄	
	10257 Apr 02 00:58	0°♄			10259 Nov 07 02:38	0°♄	
	10257 Apr 29 01:51	0°♄		desc. node	10259 Nov 10 21:26	4°♄25'29	
	10257 May 24 13:05	0°♄			10259 Dec 03 04:10	0°≈	
desc. node	10257 May 26 07:07	2°♄06'04			10259 Dec 30 16:26	0°♄	
	10257 Jun 18 07:10	0°♄		evening max el	10260 Jan 13 19:43	14°♄16'29	46°04'35
	10257 Jul 12 17:05	0°♄			10260 Jan 31 09:40	0°♄	
	10257 Aug 05 23:57	0°♄		greatest brilliancy	10260 Feb 22 06:08	13°♄18'33	-4.8m
	10257 Aug 30 06:20	0°♄		asc. node	10260 Mar 02 21:39	15°♄06'55	
asc. node	10257 Sep 16 01:46	20°♄46'32		retrograde	10260 Mar 03 03:48	15°♄07'00	
	10257 Sep 23 12:57	0°♄		evening set	10260 Mar 18 02:08	10°♄44'37	
morning set	10257 Sep 25 04:01	2°♄00'43		inferior conj	10260 Mar 23 22:16	7°♄16'04	5°05'09
	10257 Oct 17 19:43	0°♄		minimum elong	10260 Mar 23 12:16	7°♄31'34	5°02'27
				min. Earth dist.	10260 Mar 23 22:10	7°♄16'15	0.27375 AU
superior conj	10257 Nov 01 09:50	18°♄01'01	1°23'05	morning rise	10260 Mar 28 22:13	4°♄15'30	
minimum elong	10257 Nov 01 04:53	17°♄45'43	1°23'21		10260 Apr 08 02:38	30°♄	
max. Earth dist.	10257 Nov 02 06:46	19°♄05'39	1.73167 AU	direct	10260 Apr 13 19:39	29°♄20'07	
	10257 Nov 11 02:50	0°♄			10260 Apr 19 15:52	0°♄	
	10257 Dec 05 11:01	0°♄		greatest brilliancy	10260 Apr 23 21:08	1°♄14'48	-4.9m
evening rise	10257 Dec 08 02:33	3°♄15'29			10260 Jun 01 02:55	0°♄	
	10257 Dec 29 20:52	0°≈		morning max el	10260 Jun 03 07:26	2°♄11'13	46°58'47
desc. node	10258 Jan 05 18:51	8°≈29'04		desc. node	10260 Jun 22 19:06	22°♄51'22	
	10258 Jan 23 08:22	0°♄			10260 Jun 29 04:45	0°♄	
	10258 Feb 16 21:09	0°♄			10260 Jul 25 04:03	0°♄	
	10258 Mar 13 11:49	0°♄			10260 Aug 19 08:43	0°♄	
	10258 Apr 07 07:42	0°♄			10260 Sep 13 05:29	0°♄	
asc. node	10258 Apr 28 16:52	25°♄20'32			10260 Oct 07 22:04	0°♄	
	10258 May 02 16:49	0°♄		asc. node	10260 Oct 13 14:54	6°♄57'00	
	10258 May 29 09:45	0°♄			10260 Nov 01 11:23	0°♄	
evening max el	10258 Jun 10 15:16	12°♄45'02	46°49'53		10260 Nov 25 21:50	0°♄	
	10258 Jun 29 07:23	0°♄		morning set	10260 Dec 03 03:56	8°♄55'49	
greatest brilliancy	10258 Jul 20 04:20	13°♄11'25	-4.9m		10260 Dec 20 06:10	0°♄	
retrograde	10258 Jul 31 00:33	15°♄22'59		max. Earth dist.	10261 Jan 07 15:17	22°♄41'33	1.73012 AU
evening set	10258 Aug 14 17:33	11°♄06'14					
desc. node	10258 Aug 18 15:17	8°♄50'47		superior conj	10261 Jan 08 22:41	24°♄18'30	0°54'30
min. Earth dist.	10258 Aug 20 12:21	7°♄41'54	0.27589 AU	minimum elong	10261 Jan 09 08:19	24°♄48'15	0°54'35
inferior conj	10258 Aug 21 00:52	7°♄22'39	-0°36'32		10261 Jan 13 13:15	0°≈	
minimum elong	10258 Aug 20 23:27	7°♄24'49	0°36'18	desc. node	10261 Feb 02 07:14	24°≈25'28	
morning rise	10258 Aug 27 06:04	3°♄43'32			10261 Feb 06 19:21	0°♄	
	10258 Sep 06 00:58	30°♄		evening rise	10261 Feb 16 03:14	11°♄33'07	
direct	10258 Sep 10 23:22	29°♄30'44			10261 Mar 03 00:15	0°♄	
	10258 Sep 16 00:45	0°♄			10261 Mar 27 03:53	0°♄	
greatest brilliancy	10258 Sep 20 16:18	1°♄14'27	-4.8m		10261 Apr 20 07:25	0°♄	
morning max el	10258 Oct 29 23:33	29°♄41'48	45°50'16		10261 May 14 13:33	0°♄	
	10258 Oct 30 07:08	0°♄		asc. node	10261 May 26 04:04	14°♄14'56	
	10258 Nov 28 04:54	0°♄			10261 Jun 08 02:29	0°♄	
asc. node	10258 Dec 09 14:12	12°♄39'57			10261 Jul 03 04:49	0°♄	
	10258 Dec 24 17:47	0°♄			10261 Jul 29 09:52	0°♄	
	10259 Jan 19 04:41	0°♄		evening max el	10261 Aug 20 21:33	23°♄41'13	46°13'04
	10259 Feb 13 00:58	0°≈			10261 Aug 27 10:56	0°♄	
	10259 Mar 09 12:18	0°♄		desc. node	10261 Sep 15 01:57	15°♄24'39	
desc. node	10259 Mar 31 07:15	26°♄58'57		greatest brilliancy	10261 Sep 28 18:19	22°♄54'30	-4.8m
	10259 Apr 02 17:29	0°♄		retrograde	10261 Oct 09 11:41	25°♄00'13	
	10259 Apr 26 18:10	0°♄		evening set	10261 Oct 27 04:54	19°♄04'46	

min. Earth dist.	10261 Oct 30 13:44	16° \mathbb{M} 59'38	0.28979 AU	minimum elong	10264 Mar 21 04:54	4° \mathbb{Y} 28'29	0°45'21
inferior conj	10261 Oct 31 00:34	16° \mathbb{M} 42'36	-8°20'46		10264 Apr 10 14:49	0° \mathcal{B}	
minimum elong	10261 Oct 30 19:00	16° \mathbb{M} 51'22	8°19'59	evening rise	10264 Apr 30 09:43	24° \mathcal{B} 48'32	
morning rise	10261 Nov 03 09:15	14° \mathbb{M} 37'18			10264 May 04 13:03	0° \mathbb{I}	
direct	10261 Nov 21 11:18	8° \mathbb{M} 30'30			10264 May 28 11:28	0° \mathcal{E}	
greatest brilliancy	10261 Dec 01 11:31	10° \mathbb{M} 19'11	-4.7m		10264 Jun 21 12:27	0° \mathcal{O}	
	10261 Dec 31 00:26	0° \mathcal{A}		asc. node	10264 Jun 22 15:40	1° \mathcal{O} 24'36	
asc. node	10262 Jan 06 01:46	5° \mathcal{A} 33'04			10264 Jul 15 18:33	0° \mathbb{M}	
morning max el	10262 Jan 09 09:05	8° \mathcal{A} 42'52	45°46'32		10264 Aug 09 08:48	0° \mathcal{E}	
	10262 Jan 30 00:09	0° \mathcal{E}			10264 Sep 03 12:36	0° \mathbb{M}	
	10262 Feb 25 15:21	0° \approx			10264 Sep 29 17:14	0° \mathcal{A}	
	10262 Mar 22 23:58	0° \mathcal{H}		desc. node	10264 Oct 12 12:34	13° \mathcal{A} 56'16	
	10262 Apr 16 16:54	0° \mathbb{Y}			10264 Oct 28 04:50	0° \mathcal{E}	
desc. node	10262 Apr 27 20:22	13° \mathbb{Y} 41'57		evening max el	10264 Oct 30 19:09	2° \mathcal{E} 30'57	45°46'59
	10262 May 11 00:34	0° \mathcal{B}			10264 Dec 06 22:31	0° \approx	
	10262 Jun 04 02:43	0° \mathbb{I}		greatest brilliancy	10264 Dec 08 22:27	0° \approx 43'53	-4.7m
	10262 Jun 28 02:22	0° \mathcal{E}		retrograde	10264 Dec 18 15:12	2° \approx 26'21	
morning set	10262 Jul 13 03:52	18° \mathcal{E} 50'52			10264 Dec 29 17:06	30° \mathcal{R} \mathcal{E}	
	10262 Jul 22 01:58	0° \mathcal{O}		evening set	10265 Jan 04 00:20	27° \mathcal{E} 17'49	
	10262 Aug 15 03:04	0° \mathbb{M}		inferior conj	10265 Jan 08 22:07	24° \mathcal{E} 18'48	-5°35'11
asc. node	10262 Aug 18 14:40	4° \mathbb{M} 20'14		minimum elong	10265 Jan 09 08:03	24° \mathcal{E} 03'16	5°32'25
				min. Earth dist.	10265 Jan 09 15:10	23° \mathcal{E} 52'10	0.28561 AU
superior conj	10262 Aug 21 05:59	7° \mathbb{M} 37'12	0°06'26	morning rise	10265 Jan 14 15:21	20° \mathcal{E} 51'19	
minimum elong	10262 Aug 21 04:30	7° \mathbb{M} 32'36	0°06'08	direct	10265 Jan 30 06:32	16° \mathcal{E} 04'40	
behind sun begin	10262 Aug 20 05:53	6° \mathbb{M} 22'15		asc. node	10265 Feb 02 12:51	16° \mathcal{E} 17'13	
behind sun end	10262 Aug 22 03:07	8° \mathbb{M} 42'57		greatest brilliancy	10265 Feb 10 08:56	18° \mathcal{E} 21'05	-4.8m
max. Earth dist.	10262 Aug 24 00:41	11° \mathbb{M} 04'36	1.72274 AU		10265 Mar 01 08:12	0° \approx	
	10262 Sep 08 06:16	0° \mathcal{E}		morning max el	10265 Mar 21 05:50	18° \approx 02'16	46°26'10
evening rise	10262 Sep 28 01:32	24° \mathcal{E} 31'23			10265 Apr 01 19:51	0° \mathcal{H}	
	10262 Oct 02 11:55	0° \mathbb{M}			10265 Apr 28 16:44	0° \mathbb{Y}	
	10262 Oct 26 20:52	0° \mathcal{A}			10265 May 24 02:16	0° \mathcal{B}	
	10262 Nov 20 10:28	0° \mathcal{E}		desc. node	10265 May 25 08:59	1° \mathcal{B} 32'15	
desc. node	10262 Dec 08 08:49	21° \mathcal{E} 42'26			10265 Jun 17 19:26	0° \mathbb{I}	
	10262 Dec 15 06:09	0° \approx			10265 Jul 12 04:48	0° \mathcal{E}	
	10263 Jan 09 09:10	0° \mathcal{H}			10265 Aug 05 11:18	0° \mathcal{O}	
	10263 Feb 03 22:09	0° \mathbb{Y}			10265 Aug 29 17:25	0° \mathbb{M}	
	10263 Mar 02 06:00	0° \mathcal{B}		asc. node	10265 Sep 15 03:44	20° \mathbb{M} 18'53	
evening max el	10263 Mar 27 08:22	26° \mathcal{B} 41'18	46°44'06	morning set	10265 Sep 22 20:04	29° \mathbb{M} 48'20	
	10263 Mar 30 16:46	0° \mathbb{I}			10265 Sep 22 23:50	0° \mathcal{E}	
asc. node	10263 Mar 31 08:18	0° \mathbb{I} 37'49			10265 Oct 17 06:30	0° \mathbb{M}	
greatest brilliancy	10263 May 07 01:53	27° \mathbb{I} 32'03	-4.9m				
retrograde	10263 May 16 16:01	29° \mathbb{I} 16'56		superior conj	10265 Oct 30 03:04	15° \mathbb{M} 52'44	1°22'10
evening set	10263 Jun 03 14:06	23° \mathbb{I} 10'27		minimum elong	10265 Oct 29 21:29	15° \mathbb{M} 35'31	1°22'23
inferior conj	10263 Jun 06 08:37	21° \mathbb{I} 29'08	8°48'04	max. Earth dist.	10265 Oct 31 03:20	17° \mathbb{M} 07'40	1.73155 AU
minimum elong	10263 Jun 06 15:14	21° \mathbb{I} 18'57	8°46'57		10265 Nov 10 13:36	0° \mathcal{A}	
min. Earth dist.	10263 Jun 06 14:15	21° \mathbb{I} 20'29	0.27142 AU		10265 Dec 04 21:52	0° \mathcal{E}	
morning rise	10263 Jun 09 16:21	19° \mathbb{I} 27'56		evening rise	10265 Dec 05 19:17	1° \mathcal{E} 05'53	
direct	10263 Jun 27 00:15	13° \mathbb{I} 40'26			10265 Dec 29 07:54	0° \approx	
greatest brilliancy	10263 Jul 06 21:27	15° \mathbb{I} 30'08	-4.9m	desc. node	10266 Jan 04 20:38	8° \approx 00'33	
desc. node	10263 Jul 21 06:19	23° \mathbb{I} 18'42			10266 Jan 22 19:41	0° \mathcal{H}	
	10263 Jul 29 22:38	0° \mathcal{E}			10266 Feb 16 08:52	0° \mathbb{Y}	
morning max el	10263 Aug 16 03:16	15° \mathcal{E} 48'06	46°34'48		10266 Mar 13 00:10	0° \mathcal{B}	
	10263 Aug 29 22:27	0° \mathcal{O}			10266 Apr 06 21:03	0° \mathbb{I}	
	10263 Sep 26 02:50	0° \mathbb{M}		asc. node	10266 Apr 27 18:53	24° \mathbb{I} 43'25	
	10263 Oct 22 01:52	0° \mathcal{E}			10266 May 02 07:56	0° \mathcal{E}	
asc. node	10263 Nov 11 03:48	23° \mathcal{E} 44'28			10266 May 29 04:54	0° \mathcal{O}	
	10263 Nov 16 09:37	0° \mathbb{M}		evening max el	10266 Jun 08 06:47	10° \mathcal{O} 26'59	46°50'41
	10263 Dec 11 07:06	0° \mathcal{A}			10266 Jun 29 19:57	0° \mathbb{M}	
	10264 Jan 04 21:18	0° \mathcal{E}		greatest brilliancy	10266 Jul 17 19:44	10° \mathbb{M} 52'25	-4.9m
	10264 Jan 29 06:31	0° \approx		retrograde	10266 Jul 28 15:32	13° \mathbb{M} 03'03	
morning set	10264 Feb 11 09:53	16° \approx 14'36		evening set	10266 Aug 12 08:25	8° \mathbb{M} 46'17	
	10264 Feb 22 12:11	0° \mathcal{H}		desc. node	10266 Aug 17 17:13	5° \mathbb{M} 36'56	
desc. node	10264 Mar 01 20:05	10° \mathcal{H} 20'49		min. Earth dist.	10266 Aug 18 03:02	5° \mathbb{M} 21'49	0.27544 AU
	10264 Mar 17 14:51	0° \mathbb{Y}		inferior conj	10266 Aug 18 14:56	5° \mathbb{M} 03'30	-0°13'48
max. Earth dist.	10264 Mar 18 09:49	0° \mathbb{Y} 59'10	1.71936 AU	minimum elong	10266 Aug 18 14:24	5° \mathbb{M} 04'20	0°13'52
				transit middle	10266 Aug 18 14:24	5° \mathbb{M} 04'20	0°13'52
superior conj	10264 Mar 21 14:52	4° \mathbb{Y} 59'36	-0°45'48	transit begin	10266 Aug 18 12:11	5° \mathbb{M} 07'44	

transit end	10266 Aug 18 16:37	5° \cap 00'56	desc. node	10269 Feb 01 09:12	23° \approx 58'00	
morning rise	10266 Aug 24 21:09	1° \cap 23'12		10269 Feb 06 06:13	0° H	
	10266 Aug 27 16:14	30° R	evening rise	10269 Feb 13 18:02	9° H 16'30	
direct	10266 Sep 08 13:38	27° Ω 12'26		10269 Mar 02 11:17	0° Y	
greatest brilliancy	10266 Sep 18 05:35	28° Ω 55'33 -4.8m		10269 Mar 26 15:08	0° B	
	10266 Sep 21 01:04	0° \cap		10269 Apr 19 18:58	0° Π	
morning max el	10266 Oct 27 14:08	27° \cap 26'39 45°51'08		10269 May 14 01:30	0° E	
	10266 Oct 30 05:29	0° $\underline{\text{A}}$	asc. node	10269 May 25 05:57	13° E 43'09	
	10266 Nov 27 20:37	0° M		10269 Jun 07 15:09	0° Ω	
asc. node	10266 Dec 08 16:03	12° M 04'14		10269 Jul 02 18:45	0° \cap	
	10266 Dec 24 07:08	0° J		10269 Jul 29 02:32	0° $\underline{\text{A}}$	
	10267 Jan 18 16:55	0° Z	evening max el	10269 Aug 18 11:46	21° $\underline{\text{A}}$ 23'29 46°14'30	
	10267 Feb 12 12:37	0° \approx		10269 Aug 27 12:29	0° M	
	10267 Mar 08 23:36	0° H	desc. node	10269 Sep 14 04:04	14° M 10'49	
desc. node	10267 Mar 30 09:14	26° H 30'32	greatest brilliancy	10269 Sep 26 09:51	20° M 42'38 -4.8m	
	10267 Apr 02 04:36	0° Y	retrograde	10269 Oct 07 03:32	22° M 49'16	
morning set	10267 Apr 26 06:49	0° B 05'02	evening set	10269 Oct 24 17:59	16° M 58'10	
	10267 Apr 26 05:12	0° B	min. Earth dist.	10269 Oct 28 05:02	14° M 50'01 0.28950 AU	
	10267 May 20 02:59	0° Π	inferior conj	10269 Oct 28 16:34	14° M 31'54 -8°14'51	
			minimum elong	10269 Oct 28 10:21	14° M 41'40 8°13'58	
superior conj	10267 Jun 05 17:39	20° Π 52'39 -1°23'42	morning rise	10269 Nov 01 02:51	12° M 24'15	
minimum elong	10267 Jun 06 00:32	21° Π 14'16 1°24'03	direct	10269 Nov 19 02:18	6° M 20'13	
max. Earth dist.	10267 Jun 06 13:13	21° Π 54'07 1.71302 AU	greatest brilliancy	10269 Nov 29 02:52	8° M 08'45 -4.7m	
	10267 Jun 12 23:53	0° E		10269 Dec 31 02:25	0° J	
	10267 Jul 06 21:54	0° Ω	asc. node	10270 Jan 05 03:43	4° J 42'56	
evening rise	10267 Jul 16 02:09	11° Ω 28'42	morning max el	10270 Jan 06 23:46	6° J 28'50 45°45'51	
asc. node	10267 Jul 21 03:54	17° Ω 48'48		10270 Jan 29 16:36	0° Z	
	10267 Jul 30 22:37	0° \cap		10270 Feb 25 05:01	0° \approx	
	10267 Aug 24 03:18	0° $\underline{\text{A}}$		10270 Mar 22 12:26	0° H	
	10267 Sep 17 13:33	0° M		10270 Apr 16 04:44	0° Y	
	10267 Oct 12 08:09	0° J	desc. node	10270 Apr 26 22:14	13° Y 11'53	
	10267 Nov 06 15:28	0° Z		10270 May 10 12:01	0° B	
desc. node	10267 Nov 09 23:21	3° Z 53'05		10270 Jun 03 13:54	0° Π	
	10267 Dec 02 18:50	0° \approx		10270 Jun 27 13:21	0° E	
	10267 Dec 30 11:23	0° H	morning set	10270 Jul 10 16:37	16° E 26'31	
evening max el	10268 Jan 11 09:43	11° H 58'04 46°03'13		10270 Jul 21 12:49	0° Ω	
	10268 Jan 31 23:04	0° Y		10270 Aug 14 13:50	0° \cap	
greatest brilliancy	10268 Feb 19 20:23	10° Y 57'57 -4.8m	asc. node	10270 Aug 17 16:39	3° \cap 52'55	
retrograde	10268 Feb 29 16:37	12° Y 45'14				
asc. node	10268 Mar 01 23:45	12° Y 43'13	superior conj	10270 Aug 18 20:10	5° \cap 18'36 0°02'49	
evening set	10268 Mar 15 13:33	8° Y 25'57	minimum elong	10270 Aug 18 19:34	5° \cap 16'41 0°02'34	
inferior conj	10268 Mar 21 11:59	4° Y 54'22 4°45'19	behind sun begin	10270 Aug 17 19:30	4° \cap 01'47	
minimum elong	10268 Mar 21 02:24	5° Y 09'12 4°42'40	behind sun end	10270 Aug 19 19:37	6° \cap 31'34	
min. Earth dist.	10268 Mar 21 12:50	4° Y 53'01 0.27393 AU	max. Earth dist.	10270 Aug 21 12:51	8° \cap 39'50 1.72235 AU	
morning rise	10268 Mar 26 14:58	1° Y 49'05		10270 Sep 07 17:00	0° $\underline{\text{A}}$	
	10268 Mar 30 02:06	30° R	evening rise	10270 Sep 25 17:57	22° $\underline{\text{A}}$ 20'35	
direct	10268 Apr 11 09:05	26° H 57'55		10270 Oct 01 22:41	0° M	
greatest brilliancy	10268 Apr 21 12:35	28° H 53'49 -4.9m		10270 Oct 26 07:44	0° J	
	10268 Apr 24 05:42	0° Y		10270 Nov 19 21:36	0° Z	
morning max el	10268 May 31 20:02	29° Y 45'11 46°58'31	desc. node	10270 Dec 07 10:42	21° Z 13'31	
	10268 Jun 01 01:55	0° B		10270 Dec 14 17:47	0° \approx	
desc. node	10268 Jun 21 21:00	22° B 08'29		10271 Jan 08 21:39	0° H	
	10268 Jun 28 21:10	0° Π		10271 Feb 03 12:04	0° Y	
	10268 Jul 24 18:00	0° E		10271 Mar 01 22:47	0° B	
	10268 Aug 18 21:24	0° Ω	evening max el	10271 Mar 24 21:38	24° B 17'35 46°42'58	
	10268 Sep 12 17:22	0° \cap	asc. node	10271 Mar 30 10:16	29° B 42'17	
	10268 Oct 07 09:24	0° $\underline{\text{A}}$		10271 Mar 30 17:40	0° Π	
asc. node	10268 Oct 12 16:52	6° $\underline{\text{A}}$ 28'42	greatest brilliancy	10271 May 04 14:23	25° Π 05'44 -4.9m	
	10268 Oct 31 22:22	0° M	retrograde	10271 May 14 05:14	26° Π 51'17	
	10268 Nov 25 08:37	0° J	evening set	10271 Jun 01 05:18	20° Π 40'42	
morning set	10268 Nov 30 21:14	6° J 48'13	inferior conj	10271 Jun 03 21:19	19° Π 03'16 8°54'53	
	10268 Dec 19 16:53	0° Z	minimum elong	10271 Jun 04 03:08	18° Π 54'20 8°53'56	
max. Earth dist.	10269 Jan 05 08:17	20° Z 32'41 1.73040 AU	min. Earth dist.	10271 Jun 04 02:31	18° Π 55'17 0.27149 AU	
			morning rise	10271 Jun 07 00:56	17° Π 08'23	
superior conj	10269 Jan 06 15:06	22° Z 07'52 0°57'04	direct	10271 Jun 24 13:08	11° Π 14'17	
minimum elong	10269 Jan 07 00:51	22° Z 37'57 0°57'09	greatest brilliancy	10271 Jul 04 09:42	13° Π 03'58 -4.9m	
	10269 Jan 12 23:59	0° \approx	desc. node	10271 Jul 20 08:20	21° Π 59'48	

	10271 Jul 30 07:42	0°☿			10274 Feb 15 20:16	0°♃		
morning max el	10271 Aug 13 17:53	13°☿28'33	46°36'24		10274 Mar 12 12:11	0°♄		
	10271 Aug 29 16:58	0°♌			10274 Apr 06 10:04	0°♅		
	10271 Sep 25 17:26	0°♍		asc. node	10274 Apr 26 20:46	24°♅06'54		
	10271 Oct 21 14:39	0°♎			10274 May 01 22:49	0°☿		
asc. node	10271 Nov 10 05:34	23°♎14'09			10274 May 29 00:11	0°♌		
	10271 Nov 15 21:24	0°♏		evening max el	10274 Jun 05 21:39	8°♌08'11	46°51'09	
	10271 Dec 10 18:18	0°♐			10274 Jun 30 12:25	0°♍		
	10272 Jan 04 08:09	0°♑		greatest brilliancy	10274 Jul 15 11:34	8°♍34'14	-4.9m	
	10272 Jan 28 17:12	0°♒		retrograde	10274 Jul 26 05:49	10°♍43'04		
morning set	10272 Feb 09 01:12	14°♒00'29		evening set	10274 Aug 09 23:17	6°♍26'10		
	10272 Feb 21 22:50	0°♈		min. Earth dist.	10274 Aug 15 17:59	3°♍01'16	0.27500 AU	
desc. node	10272 Feb 29 22:05	9°♈53'57		inferior conj	10274 Aug 16 04:50	2°♍44'33	0°09'13	
max. Earth dist.	10272 Mar 16 00:40	28°♈42'28	1.71979 AU	minimum elong	10274 Aug 16 05:10	2°♍44'01	0°08'51	
	10272 Mar 17 01:32	0°♉		transit middle	10274 Aug 16 05:10	2°♍44'01	0°08'51	
				transit begin	10274 Aug 16 01:44	2°♍49'19		
superior conj	10272 Mar 19 03:43	2°♉36'33	-0°42'32	transit end	10274 Aug 16 08:36	2°♍38'43		
minimum elong	10272 Mar 18 18:16	2°♉07'05	0°42'06	desc. node	10274 Aug 16 19:19	2°♍22'14		
	10272 Apr 10 01:34	0°♊			10274 Aug 20 18:31	30°♊0		
evening rise	10272 Apr 27 21:22	22°♊20'36		morning rise	10274 Aug 22 11:48	29°♊03'02		
	10272 May 03 23:54	0°♋		direct	10274 Sep 06 03:18	24°♊54'15		
	10272 May 27 22:27	0°☿		greatest brilliancy	10274 Sep 15 19:15	26°♊37'12	-4.8m	
	10272 Jun 20 23:38	0°♌			10274 Sep 23 09:01	0°♍		
asc. node	10272 Jun 21 17:36	0°♌55'48		morning max el	10274 Oct 25 03:43	25°♍09'44	45°52'10	
	10272 Jul 15 06:02	0°♍			10274 Oct 30 02:38	0°♎		
	10272 Aug 08 20:48	0°♎			10274 Nov 27 11:42	0°♏		
	10272 Sep 03 01:37	0°♏		asc. node	10274 Dec 07 18:04	11°♏30'23		
	10272 Sep 29 08:27	0°♐			10274 Dec 23 19:58	0°♐		
desc. node	10272 Oct 11 14:28	13°♐15'46			10275 Jan 18 04:41	0°♑		
	10272 Oct 28 02:22	0°♑			10275 Feb 11 23:50	0°♒		
evening max el	10272 Oct 28 11:21	0°♑21'36	45°47'16		10275 Mar 08 10:30	0°♈		
greatest brilliancy	10272 Dec 06 13:00	28°♑32'04	-4.7m	desc. node	10275 Mar 29 11:05	26°♈02'55		
	10272 Dec 12 15:53	0°♒			10275 Apr 01 15:20	0°♉		
retrograde	10272 Dec 16 06:45	0°♒14'56		morning set	10275 Apr 23 18:00	27°♉36'30		
	10272 Dec 19 19:52	30°♊0			10275 Apr 25 15:50	0°♊		
evening set	10273 Jan 01 18:43	25°♊02'07			10275 May 19 13:35	0°♋		
inferior conj	10273 Jan 06 13:42	22°♊06'44	-5°50'50					
minimum elong	10273 Jan 06 23:47	21°♊50'58	5°48'06	superior conj	10275 Jun 03 05:21	18°♋25'24	-1°24'47	
min. Earth dist.	10273 Jan 07 06:12	21°♊40'56	0.28604 AU	minimum elong	10275 Jun 03 11:20	18°♋44'09	1°25'11	
morning rise	10273 Jan 12 04:31	18°♊42'36		max. Earth dist.	10275 Jun 03 18:42	19°♋07'19	1.71292 AU	
direct	10273 Jan 27 23:02	13°♊52'26			10275 Jun 12 10:28	0°☿		
asc. node	10273 Feb 01 14:53	14°♊17'46			10275 Jul 06 08:29	0°♌		
greatest brilliancy	10273 Feb 07 23:55	16°♊07'35	-4.8m	evening rise	10275 Jul 13 14:29	9°♌04'05		
	10273 Mar 01 17:43	0°♋		asc. node	10275 Jul 20 05:55	17°♌21'56		
morning max el	10273 Mar 18 21:36	15°♋48'30	46°24'30		10275 Jul 30 09:16	0°♍		
	10273 Apr 01 13:51	0°♈			10275 Aug 23 14:06	0°♎		
	10273 Apr 28 07:04	0°♉			10275 Sep 17 00:38	0°♏		
	10273 May 23 15:03	0°♊			10275 Oct 11 19:44	0°♐		
desc. node	10273 May 24 10:52	0°♊59'37			10275 Nov 06 04:00	0°♑		
	10273 Jun 17 07:23	0°♋		desc. node	10275 Nov 09 01:16	3°♑21'41		
	10273 Jul 11 16:16	0°☿			10275 Dec 02 09:16	0°♒		
	10273 Aug 04 22:24	0°♌			10275 Dec 30 06:26	0°♈		
	10273 Aug 29 04:13	0°♍		evening max el	10276 Jan 08 23:04	9°♈39'24	46°01'58	
asc. node	10273 Sep 14 05:40	19°♍51'57			10276 Feb 01 16:15	0°♉		
morning set	10273 Sep 20 11:49	27°♍35'59		greatest brilliancy	10276 Feb 17 10:33	8°♉38'36	-4.8m	
	10273 Sep 22 10:25	0°♎		retrograde	10276 Feb 27 05:31	10°♉25'12		
	10273 Oct 16 16:57	0°♏		asc. node	10276 Mar 01 01:44	10°♉15'31		
				evening set	10276 Mar 13 01:13	6°♉08'14		
superior conj	10273 Oct 27 20:08	13°♏45'01	1°21'06	inferior conj	10276 Mar 19 01:46	2°♉34'08	4°24'56	
minimum elong	10273 Oct 27 13:57	13°♏25'57	1°21'19	minimum elong	10276 Mar 18 16:40	2°♉48'13	4°22'24	
max. Earth dist.	10273 Oct 28 23:56	15°♏10'51	1.73138 AU	min. Earth dist.	10276 Mar 19 03:41	2°♉31'08	0.27415 AU	
	10273 Nov 10 00:02	0°♐			10276 Mar 23 07:02	30°♊0		
evening rise	10273 Dec 03 12:01	28°♐57'19		morning rise	10276 Mar 24 07:41	29°♊24'30		
	10273 Dec 04 08:23	0°♑		direct	10276 Apr 08 22:34	24°♊36'55		
	10273 Dec 28 18:36	0°♒		greatest brilliancy	10276 Apr 19 04:31	26°♊34'46	-4.9m	
desc. node	10274 Jan 03 22:39	7°♒33'42			10276 Apr 26 10:48	0°♃		
	10274 Jan 22 06:40	0°♈		morning max el	10276 May 29 09:13	27°♃21'49	46°58'26	

	10276 May 31 23:32	0°♄				10278 Dec 14 05:22	0°♁		
desc. node	10276 Jun 20 23:02	21°♄27'44				10279 Jan 08 10:06	0°♄		
	10276 Jun 28 12:50	0°♄				10279 Feb 03 02:02	0°♄		
	10276 Jul 24 07:23	0°♄				10279 Mar 01 15:46	0°♄		
	10276 Aug 18 09:35	0°♄	evening max el			10279 Mar 22 11:47	21°♄56'30	46°41'50	
	10276 Sep 12 04:49	0°♄	asc. node			10279 Mar 29 12:10	28°♄45'49		
	10276 Oct 06 20:24	0°♄				10279 Mar 30 19:45	0°♄		
asc. node	10276 Oct 11 18:40	6°♄00'55	greatest brilliancy			10279 May 02 02:33	22°♄39'34	-4.9m	
	10276 Oct 31 09:03	0°♄	retrograde			10279 May 11 18:40	24°♄25'53		
	10276 Nov 24 19:07	0°♄	evening set			10279 May 29 20:10	18°♄11'54		
morning set	10276 Nov 28 14:24	4°♄41'02	inferior conj			10279 Jun 01 10:03	16°♄37'36	9°00'39	
	10276 Dec 19 03:17	0°♄	minimum elong			10279 Jun 01 15:00	16°♄30'01	8°59'52	
max. Earth dist.	10277 Jan 03 02:56	18°♄29'58	1.73065 AU	min. Earth dist.		10279 Jun 01 14:33	16°♄30'43	0.27156 AU	
				morning rise		10279 Jun 04 09:51	14°♄48'31		
superior conj	10277 Jan 04 07:31	19°♄58'12	0°59'33	direct		10279 Jun 22 02:32	8°♄48'30		
minimum elong	10277 Jan 04 17:18	20°♄28'24	0°59'39	greatest brilliancy		10279 Jul 01 21:38	10°♄37'27	-4.9m	
	10277 Jan 12 10:24	0°♄		desc. node		10279 Jul 19 10:20	20°♄43'31		
desc. node	10277 Jan 31 11:08	23°♄31'28				10279 Jul 30 14:14	0°♄		
	10277 Feb 05 16:45	0°♄		morning max el		10279 Aug 11 08:40	11°♄09'28	46°38'02	
evening rise	10277 Feb 11 09:00	7°♄01'32				10279 Aug 29 11:00	0°♄		
	10277 Mar 01 22:01	0°♄				10279 Sep 25 07:48	0°♄		
	10277 Mar 26 02:08	0°♄				10279 Oct 21 03:17	0°♄		
	10277 Apr 19 06:15	0°♄		asc. node		10279 Nov 09 07:36	22°♄44'55		
	10277 May 13 13:13	0°♄				10279 Nov 15 09:04	0°♄		
asc. node	10277 May 24 07:56	13°♄12'34				10279 Dec 10 05:26	0°♄		
	10277 Jun 07 03:33	0°♄				10280 Jan 03 19:00	0°♄		
	10277 Jul 02 08:27	0°♄				10280 Jan 28 03:56	0°♄		
	10277 Jul 28 19:07	0°♄		morning set		10280 Feb 06 16:37	11°♄46'37		
evening max el	10277 Aug 16 02:27	19°♄08'04	46°15'57			10280 Feb 21 09:33	0°♄		
	10277 Aug 27 14:59	0°♄		desc. node		10280 Feb 28 23:55	9°♄26'22		
desc. node	10277 Sep 13 05:56	12°♄55'28		max. Earth dist.		10280 Mar 13 13:17	26°♄18'48	1.72020 AU	
greatest brilliancy	10277 Sep 24 00:48	18°♄31'04	-4.8m						
retrograde	10277 Oct 04 19:51	20°♄39'25		superior conj		10280 Mar 16 16:39	0°♄13'42	-0°39'12	
evening set	10277 Oct 22 06:57	14°♄52'37		minimum elong		10280 Mar 16 07:49	29°♄46'08	0°38'46	
inferior conj	10277 Oct 26 08:38	12°♄22'03	-8°08'08			10280 Mar 16 12:16	0°♄		
minimum elong	10277 Oct 26 01:48	12°♄32'47	8°07'08			10280 Apr 09 12:21	0°♄		
min. Earth dist.	10277 Oct 25 20:11	12°♄41'36	0.28922 AU	evening rise		10280 Apr 25 09:04	19°♄52'42		
morning rise	10277 Oct 29 20:47	10°♄11'51				10280 May 03 10:48	0°♄		
direct	10277 Nov 16 17:44	4°♄10'42				10280 May 27 09:31	0°♄		
greatest brilliancy	10277 Nov 26 18:14	5°♄59'14	-4.7m			10280 Jun 20 10:57	0°♄		
	10277 Dec 31 02:47	0°♄		asc. node		10280 Jun 20 19:37	0°♄26'55		
asc. node	10278 Jan 04 05:45	3°♄54'34				10280 Jul 14 17:40	0°♄		
morning max el	10278 Jan 04 15:29	4°♄18'03	45°45'12			10280 Aug 08 09:00	0°♄		
	10278 Jan 29 08:31	0°♄				10280 Sep 02 14:51	0°♄		
	10278 Feb 24 18:20	0°♄				10280 Sep 28 24:00	0°♄		
	10278 Mar 22 00:35	0°♄		desc. node		10280 Oct 10 16:27	12°♄34'53		
	10278 Apr 15 16:18	0°♄		evening max el		10280 Oct 26 03:13	28°♄11'16	45°47'35	
desc. node	10278 Apr 26 00:04	12°♄42'27				10280 Oct 28 00:49	0°♄		
	10278 May 09 23:14	0°♄		greatest brilliancy		10280 Dec 04 04:04	26°♄21'00	-4.7m	
	10278 Jun 03 00:53	0°♄		retrograde		10280 Dec 13 21:56	28°♄03'41		
	10278 Jun 27 00:10	0°♄		evening set		10280 Dec 30 13:16	22°♄46'44		
morning set	10278 Jul 08 05:31	14°♄03'04		inferior conj		10281 Jan 04 05:29	19°♄54'58	-6°05'45	
	10278 Jul 20 23:29	0°♄		minimum elong		10281 Jan 04 15:37	19°♄39'05	6°03'05	
	10278 Aug 14 00:24	0°♄		min. Earth dist.		10281 Jan 04 21:34	19°♄29'46	0.28648 AU	
				morning rise		10281 Jan 09 17:42	16°♄34'10		
superior conj	10278 Aug 16 10:31	3°♄00'59	-0°00'50	direct		10281 Jan 25 15:28	11°♄40'26		
minimum elong	10278 Aug 16 10:47	3°♄01'49	0°01'04	asc. node		10281 Jan 31 16:51	12°♄22'41		
behind sun begin	10278 Aug 15 10:30	1°♄46'11		greatest brilliancy		10281 Feb 05 15:18	13°♄54'18	-4.8m	
behind sun end	10278 Aug 17 11:04	4°♄17'26				10281 Mar 02 00:49	0°♄		
asc. node	10278 Aug 16 18:37	3°♄26'12		morning max el		10281 Mar 16 12:41	13°♄32'19	46°22'44	
max. Earth dist.	10278 Aug 19 03:02	6°♄21'48	1.72193 AU			10281 Apr 01 07:40	0°♄		
	10278 Sep 07 03:32	0°♄				10281 Apr 27 21:29	0°♄		
evening rise	10278 Sep 23 10:37	20°♄11'15				10281 May 23 03:58	0°♄		
	10278 Oct 01 09:15	0°♄		desc. node		10281 May 23 12:57	0°♄27'02		
	10278 Oct 25 18:27	0°♄				10281 Jun 16 19:31	0°♄		
	10278 Nov 19 08:38	0°♄				10281 Jul 11 03:54	0°♄		
desc. node	10278 Dec 06 12:42	20°♄45'12				10281 Aug 04 09:42	0°♄		

	10281 Aug 28 15:16	0°♍	retrograde	10284 Feb 24 18:56	8°♑04'48	
asc. node	10281 Sep 13 07:28	19°♍23'49	asc. node	10284 Feb 29 03:37	7°♑41'49	
morning set	10281 Sep 18 03:31	25°♍22'35	evening set	10284 Mar 10 13:15	3°♑49'29	
	10281 Sep 21 21:16	0°♊	inferior conj	10284 Mar 16 15:39	0°♑13'11	4°04'15
	10281 Oct 16 03:40	0°♌	minimum elong	10284 Mar 16 07:05	0°♑26'25	4°01'49
			min. Earth dist.	10284 Mar 16 18:19	0°♑09'03	0.27441 AU
superior conj	10281 Oct 25 13:21	11°♌36'55 1°19'56		10284 Mar 17 00:10	30°♑	
minimum elong	10281 Oct 25 06:37	11°♌16'10 1°20'07	morning rise	10284 Mar 22 00:27	26°♑59'41	
max. Earth dist.	10281 Oct 26 19:13	13°♌09'08 1.73115 AU	direct	10284 Apr 06 12:29	22°♑15'10	
	10281 Nov 09 10:44	0°♌	greatest brilliancy	10284 Apr 16 20:19	24°♑14'53	-4.9m
evening rise	10281 Dec 01 05:00	26°♌48'47		10284 Apr 27 22:02	0°♑	
	10281 Dec 03 19:09	0°♊	morning max el	10284 May 26 23:26	24°♑59'47	46°58'04
	10281 Dec 28 05:33	0°♋		10284 May 31 20:53	0°♊	
desc. node	10282 Jan 03 00:37	7°♋06'00	desc. node	10284 Jun 20 00:59	20°♊45'45	
	10282 Jan 21 17:56	0°♑		10284 Jun 28 04:47	0°♋	
	10282 Feb 15 08:00	0°♑		10284 Jul 23 21:11	0°♋	
	10282 Mar 12 00:36	0°♊		10284 Aug 17 22:12	0°♌	
asc. node	10282 Apr 05 23:35	0°♋		10284 Sep 11 16:43	0°♍	
	10282 Apr 25 22:48	23°♋29'25		10284 Oct 06 07:49	0°♊	
	10282 May 01 14:19	0°♋	asc. node	10284 Oct 10 20:40	5°♊32'24	
	10282 May 28 20:30	0°♌		10284 Oct 30 20:10	0°♌	
evening max el	10282 Jun 03 11:31	5°♌45'41 46°51'41		10284 Nov 24 06:02	0°♌	
	10282 Jul 01 11:21	0°♍	morning set	10284 Nov 26 07:28	2°♌32'11	
greatest brilliancy	10282 Jul 13 03:39	6°♍15'09 -4.9m		10284 Dec 18 14:08	0°♊	
retrograde	10282 Jul 23 19:33	8°♍21'58	max. Earth dist.	10284 Dec 31 22:41	16°♊29'15	1.73085 AU
evening set	10282 Aug 07 14:19	4°♍04'26				
inferior conj	10282 Aug 13 18:43	0°♍24'28 0°32'12	superior conj	10285 Jan 02 00:01	17°♊47'29	1°01'56
minimum elong	10282 Aug 13 19:57	0°♍22'34 0°31'32	minimum elong	10285 Jan 02 09:48	18°♊17'40	1°02'04
min. Earth dist.	10282 Aug 13 09:11	0°♍39'11 0.27460 AU		10285 Jan 11 21:16	0°♋	
	10282 Aug 14 10:35	30°♌	desc. node	10285 Jan 30 12:59	23°♋03'24	
desc. node	10282 Aug 15 21:13	29°♌07'02		10285 Feb 05 03:42	0°♑	
morning rise	10282 Aug 20 02:14	26°♌41'53	evening rise	10285 Feb 09 00:15	4°♑46'16	
direct	10282 Sep 03 16:29	22°♌34'38		10285 Mar 01 09:07	0°♑	
greatest brilliancy	10282 Sep 13 09:31	24°♌18'08 -4.8m		10285 Mar 25 13:28	0°♊	
	10282 Sep 24 21:54	0°♍		10285 Apr 18 17:55	0°♋	
morning max el	10282 Oct 22 17:00	22°♍50'42 45°53'20		10285 May 13 01:21	0°♋	
	10282 Oct 29 23:31	0°♊	asc. node	10285 May 23 09:56	12°♋40'40	
	10282 Nov 27 02:59	0°♌		10285 Jun 06 16:29	0°♌	
asc. node	10282 Dec 06 20:02	10°♌55'30		10285 Jul 01 22:48	0°♍	
	10282 Dec 23 09:06	0°♌		10285 Jul 28 12:39	0°♊	
	10283 Jan 17 16:45	0°♊	evening max el	10285 Aug 13 17:52	16°♊52'47	46°17'29
	10283 Feb 11 11:21	0°♋		10285 Aug 27 20:00	0°♌	
desc. node	10283 Mar 07 21:44	0°♑	desc. node	10285 Sep 12 07:56	11°♌36'13	
	10283 Mar 28 12:59	25°♑34'15	greatest brilliancy	10285 Sep 21 15:08	16°♌16'52	-4.8m
	10283 Apr 01 02:26	0°♑	retrograde	10285 Oct 02 12:20	18°♌27'20	
morning set	10283 Apr 21 05:01	25°♑06'06	evening set	10285 Oct 19 19:34	12°♌45'01	
	10283 Apr 25 02:54	0°♊	min. Earth dist.	10285 Oct 23 10:43	10°♌31'25	0.28890 AU
	10283 May 19 00:37	0°♋	inferior conj	10285 Oct 24 00:26	10°♌09'57	-8°00'43
			minimum elong	10285 Oct 23 17:00	10°♌21'35	7°59'34
superior conj	10283 May 31 16:43	15°♋55'39 -1°25'43	morning rise	10285 Oct 27 14:37	7°♌57'01	
minimum elong	10283 May 31 21:44	16°♋11'25 1°26'07	direct	10285 Nov 14 09:25	1°♌59'07	
max. Earth dist.	10283 May 31 21:48	16°♋11'36 1.71286 AU	greatest brilliancy	10285 Nov 24 08:48	3°♌47'07	-4.7m
	10283 Jun 11 21:29	0°♋		10285 Dec 31 02:34	0°♌	
	10283 Jul 05 19:31	0°♌	morning max el	10286 Jan 02 07:34	2°♌06'57	45°44'37
evening rise	10283 Jul 11 02:21	6°♌36'38	asc. node	10286 Jan 03 07:40	3°♌05'26	
asc. node	10283 Jul 19 07:44	16°♌53'04		10286 Jan 29 00:36	0°♊	
	10283 Jul 29 20:22	0°♍		10286 Feb 24 07:54	0°♋	
	10283 Aug 23 01:21	0°♊		10286 Mar 21 13:00	0°♑	
	10283 Sep 16 12:13	0°♌		10286 Apr 15 04:06	0°♑	
	10283 Oct 11 07:51	0°♌	desc. node	10286 Apr 25 02:09	12°♑13'01	
	10283 Nov 05 17:07	0°♊		10286 May 09 10:41	0°♊	
desc. node	10283 Nov 08 03:20	2°♊49'10		10286 Jun 02 12:06	0°♋	
	10283 Dec 02 00:23	0°♋		10286 Jun 26 11:14	0°♋	
	10283 Dec 30 02:31	0°♑	morning set	10286 Jul 05 18:18	11°♋38'18	
evening max el	10284 Jan 06 12:30	7°♑20'06 46°00'55		10286 Jul 20 10:28	0°♌	
	10284 Feb 02 16:08	0°♑		10286 Aug 13 11:20	0°♍	
greatest brilliancy	10284 Feb 15 00:08	6°♑17'58 -4.8m				

superior conj	10286 Aug 14 00:26	0° \mathbb{M} 40'50	-0°04'29	direct	10289 Jan 23 07:21	9° \mathcal{Z} 28'10	
minimum elong	10286 Aug 14 01:34	0° \mathbb{M} 44'23	0°04'43	asc. node	10289 Jan 30 18:47	10° \mathcal{Z} 31'33	
behind sun begin	10286 Aug 13 02:01	29° \mathcal{O} 30'59		greatest brilliancy	10289 Feb 03 07:06	11° \mathcal{Z} 41'23	-4.8m
behind sun end	10286 Aug 15 01:08	1° \mathbb{M} 57'46			10289 Mar 02 05:46	0° \approx	
asc. node	10286 Aug 15 20:25	2° \mathbb{M} 57'49		morning max el	10289 Mar 14 02:44	11° \approx 13'38	46°21'02
max. Earth dist.	10286 Aug 16 18:07	4° \mathbb{M} 05'24	1.72156 AU		10289 Apr 01 01:04	0° \mathcal{H}	
	10286 Sep 06 14:25	0° $\underline{\mathcal{A}}$			10289 Apr 27 11:41	0° \mathcal{Y}	
evening rise	10286 Sep 21 02:47	17° $\underline{\mathcal{A}}$ 59'11		desc. node	10289 May 22 14:47	29° \mathcal{Y} 54'07	
	10286 Sep 30 20:09	0° \mathbb{M}			10289 May 22 16:44	0° \mathcal{B}	
	10286 Oct 25 05:30	0° \mathcal{A}			10289 Jun 16 07:29	0° \mathbb{I}	
	10286 Nov 18 20:01	0° \mathcal{Z}			10289 Jul 10 15:21	0° \mathcal{G}	
desc. node	10286 Dec 05 14:40	20° \mathcal{Z} 15'47			10289 Aug 03 20:47	0° \mathcal{O}	
	10286 Dec 13 17:19	0° \approx			10289 Aug 28 02:04	0° \mathbb{M}	
	10287 Jan 07 22:58	0° \mathcal{H}		asc. node	10289 Sep 12 09:29	18° \mathbb{M} 56'57	
	10287 Feb 02 16:27	0° \mathcal{Y}		morning set	10289 Sep 15 19:27	23° \mathbb{M} 10'30	
	10287 Mar 01 09:24	0° \mathcal{B}			10289 Sep 21 07:53	0° $\underline{\mathcal{A}}$	
evening max el	10287 Mar 20 02:29	19° \mathcal{B} 36'22	46°40'46		10289 Oct 15 14:13	0° \mathbb{M}	
asc. node	10287 Mar 28 14:17	27° \mathcal{B} 48'14					
	10287 Mar 30 23:36	0° \mathbb{I}		superior conj	10289 Oct 23 06:41	9° \mathbb{M} 29'43	1°18'40
greatest brilliancy	10287 Apr 29 15:04	20° \mathbb{I} 14'04	-4.9m	minimum elong	10289 Oct 22 23:26	9° \mathbb{M} 07'22	1°18'47
retrograde	10287 May 09 08:06	22° \mathbb{I} 00'41		max. Earth dist.	10289 Oct 24 12:43	11° \mathbb{M} 02'27	1.73098 AU
evening set	10287 May 27 10:52	15° \mathbb{I} 44'17			10289 Nov 08 21:17	0° \mathcal{A}	
inferior conj	10287 May 29 23:02	14° \mathbb{I} 12'27	9°05'28	evening rise	10289 Nov 28 21:55	24° \mathcal{A} 40'30	
minimum elong	10287 May 30 03:03	14° \mathbb{I} 06'15	9°04'47		10289 Dec 03 05:48	0° \mathcal{Z}	
min. Earth dist.	10287 May 30 02:43	14° \mathbb{I} 06'46	0.27159 AU		10289 Dec 27 16:24	0° \approx	
morning rise	10287 Jun 01 19:16	12° \mathbb{I} 28'34		desc. node	10290 Jan 02 02:27	6° \approx 38'11	
direct	10287 Jun 19 16:09	6° \mathbb{I} 23'30			10290 Jan 21 05:04	0° \mathcal{H}	
greatest brilliancy	10287 Jun 29 09:39	8° \mathbb{I} 11'15	-4.9m		10290 Feb 14 19:37	0° \mathcal{Y}	
desc. node	10287 Jul 18 12:16	19° \mathbb{I} 29'33			10290 Mar 11 12:56	0° \mathcal{B}	
	10287 Jul 30 18:43	0° \mathcal{G}			10290 Apr 05 13:02	0° \mathbb{I}	
morning max el	10287 Aug 08 22:41	8° \mathcal{G} 48'11	46°39'18	asc. node	10290 Apr 25 00:48	22° \mathbb{I} 52'08	
	10287 Aug 29 04:43	0° \mathcal{O}			10290 May 01 05:51	0° \mathcal{G}	
	10287 Sep 24 22:11	0° \mathbb{M}			10290 May 28 17:14	0° \mathcal{O}	
	10287 Oct 20 16:03	0° $\underline{\mathcal{A}}$		evening max el	10290 Jun 01 00:41	3° \mathcal{O} 22'03	46°52'18
asc. node	10287 Nov 08 09:34	22° $\underline{\mathcal{A}}$ 14'52			10290 Jul 02 18:29	0° \mathbb{M}	
	10287 Nov 14 20:55	0° \mathbb{M}		greatest brilliancy	10290 Jul 10 19:50	3° \mathbb{M} 57'10	-4.9m
	10287 Dec 09 16:43	0° \mathcal{A}		retrograde	10290 Jul 21 09:26	6° \mathbb{M} 02'26	
	10288 Jan 03 06:00	0° \mathcal{Z}		evening set	10290 Aug 05 05:38	1° \mathbb{M} 43'41	
	10288 Jan 27 14:48	0° \approx			10290 Aug 08 06:01	30° \mathcal{R} \mathcal{O}	
morning set	10288 Feb 04 07:56	9° \approx 32'00		inferior conj	10290 Aug 11 08:46	28° \mathcal{O} 05'53	0°55'05
	10288 Feb 20 20:23	0° \mathcal{H}		minimum elong	10290 Aug 11 10:53	28° \mathcal{O} 02'38	0°54'08
desc. node	10288 Feb 28 01:51	8° \mathcal{H} 58'42		min. Earth dist.	10290 Aug 11 00:37	28° \mathcal{O} 18'27	0.27420 AU
max. Earth dist.	10288 Mar 10 23:57	23° \mathcal{H} 48'43	1.72060 AU	desc. node	10290 Aug 14 23:12	25° \mathcal{O} 54'43	
				morning rise	10290 Aug 17 16:39	24° \mathcal{O} 22'38	
superior conj	10288 Mar 14 05:39	27° \mathcal{H} 50'47	-0°35'49	direct	10290 Sep 01 05:31	20° \mathcal{O} 16'22	
minimum elong	10288 Mar 13 21:29	27° \mathcal{H} 25'18	0°35'23	greatest brilliancy	10290 Sep 11 00:14	22° \mathcal{O} 01'03	-4.8m
	10288 Mar 15 23:07	0° \mathcal{Y}			10290 Sep 25 23:08	0° \mathbb{M}	
	10288 Apr 08 23:15	0° \mathcal{B}		morning max el	10290 Oct 20 06:37	20° \mathbb{M} 33'42	45°54'31
evening rise	10288 Apr 22 20:55	17° \mathcal{B} 25'03			10290 Oct 29 19:11	0° $\underline{\mathcal{A}}$	
	10288 May 02 21:46	0° \mathbb{I}			10290 Nov 26 17:39	0° \mathbb{M}	
	10288 May 26 20:37	0° \mathcal{G}		asc. node	10290 Dec 05 21:54	10° \mathbb{M} 21'40	
asc. node	10288 Jun 19 21:29	29° \mathcal{G} 57'41			10290 Dec 22 21:48	0° \mathcal{A}	
	10288 Jun 19 22:13	0° \mathcal{O}			10291 Jan 17 04:30	0° \mathcal{Z}	
	10288 Jul 14 05:16	0° \mathbb{M}			10291 Feb 10 22:35	0° \approx	
	10288 Aug 07 21:11	0° $\underline{\mathcal{A}}$			10291 Mar 07 08:41	0° \mathcal{H}	
	10288 Sep 02 04:12	0° \mathbb{M}		desc. node	10291 Mar 27 15:00	25° \mathcal{H} 06'51	
	10288 Sep 28 15:53	0° \mathcal{A}			10291 Mar 31 13:14	0° \mathcal{Y}	
desc. node	10288 Oct 09 18:32	11° \mathcal{A} 53'30		morning set	10291 Apr 18 15:57	22° \mathcal{Y} 36'26	
evening max el	10288 Oct 23 18:14	25° \mathcal{A} 58'27	45°47'48		10291 Apr 24 13:39	0° \mathcal{B}	
	10288 Oct 28 00:26	0° \mathcal{Z}			10291 May 18 11:21	0° \mathbb{I}	
greatest brilliancy	10288 Dec 01 19:35	24° \mathcal{Z} 09'58	-4.7m				
retrograde	10288 Dec 11 12:40	25° \mathcal{Z} 52'09		superior conj	10291 May 29 03:59	13° \mathbb{I} 26'33	-1°26'29
evening set	10288 Dec 28 07:45	20° \mathcal{Z} 30'58		minimum elong	10291 May 29 08:00	13° \mathbb{I} 39'11	1°26'53
inferior conj	10289 Jan 01 21:14	17° \mathcal{Z} 43'01	-6°20'02	max. Earth dist.	10291 May 29 01:50	13° \mathbb{I} 19'49	1.71286 AU
minimum elong	10289 Jan 02 07:21	17° \mathcal{Z} 27'07	6°17'29		10291 Jun 11 08:12	0° \mathcal{G}	
min. Earth dist.	10289 Jan 02 13:08	17° \mathcal{Z} 18'02	0.28690 AU		10291 Jul 05 06:14	0° \mathcal{O}	
morning rise	10289 Jan 07 06:40	14° \mathcal{Z} 25'44		evening rise	10291 Jul 08 14:14	4° \mathcal{O} 10'11	

asc. node	10291 Jul 18 09:40	16°Ω25'32			10293 Dec 31 00:38	0°♊	
	10291 Jul 29 07:08	0°♎		asc. node	10294 Jan 02 09:39	2°♊18'56	
	10291 Aug 22 12:15	0°♌			10294 Jan 28 15:51	0°♊	
	10291 Sep 15 23:22	0°♍			10294 Feb 23 20:54	0°♋	
	10291 Oct 10 19:32	0°♎			10294 Mar 21 01:00	0°♌	
	10291 Nov 05 05:51	0°♏			10294 Apr 14 15:34	0°♍	
desc. node	10291 Nov 07 05:15	2°♏17'27		desc. node	10294 Apr 24 04:00	11°♍43'53	
	10291 Dec 01 15:15	0°♋			10294 May 08 21:49	0°♎	
	10291 Dec 29 22:50	0°♌			10294 Jun 01 23:00	0°♏	
evening max el	10292 Jan 04 02:40	5°♌03'51	45°59'46		10294 Jun 25 21:58	0°♏	
	10292 Feb 04 00:49	0°♍		morning set	10294 Jul 03 06:49	9°♏13'44	
greatest brilliancy	10292 Feb 12 13:20	3°♍57'57	-4.8m		10294 Jul 19 21:06	0°♏	
retrograde	10292 Feb 22 08:58	5°♍45'24					
asc. node	10292 Feb 28 05:44	5°♍03'31		superior conj	10294 Aug 11 14:09	28°♏21'04	-0°08'09
evening set	10292 Mar 08 01:32	1°♍31'27		minimum elong	10294 Aug 11 16:10	28°♏27'24	0°08'20
	10292 Mar 10 18:04	30°♌♌		behind sun begin	10294 Aug 10 18:57	27°♏21'16	
inferior conj	10292 Mar 14 05:29	27°♌53'08	3°43'08	behind sun end	10294 Aug 12 13:24	29°♏33'32	
minimum elong	10292 Mar 13 21:32	28°♌05'25	3°40'51		10294 Aug 12 21:53	0°♎	
min. Earth dist.	10292 Mar 14 08:39	27°♌48'14	0.27468 AU	max. Earth dist.	10294 Aug 14 10:54	1°♎55'16	1.72116 AU
morning rise	10292 Mar 19 17:05	24°♌36'01		asc. node	10294 Aug 14 22:23	2°♎31'05	
direct	10292 Apr 04 02:49	19°♌54'29			10294 Sep 06 00:57	0°♌	
greatest brilliancy	10292 Apr 14 11:35	21°♌55'30	-4.9m	evening rise	10294 Sep 18 18:58	15°♌48'07	
	10292 Apr 28 22:29	0°♍			10294 Sep 30 06:44	0°♍	
morning max el	10292 May 24 14:20	22°♍40'47	46°57'37		10294 Oct 24 16:13	0°♎	
	10292 May 31 17:04	0°♎			10294 Nov 18 07:03	0°♏	
desc. node	10292 Jun 19 02:56	20°♎05'25		desc. node	10294 Dec 04 16:34	19°♏47'22	
	10292 Jun 27 20:04	0°♏			10294 Dec 13 04:53	0°♋	
	10292 Jul 23 10:26	0°♏			10295 Jan 07 11:27	0°♌	
	10292 Aug 17 10:21	0°♏			10295 Feb 02 06:35	0°♍	
	10292 Sep 11 04:09	0°♎			10295 Mar 01 03:01	0°♎	
	10292 Oct 05 18:46	0°♌		evening max el	10295 Mar 17 16:35	17°♎15'33	46°39'19
asc. node	10292 Oct 09 22:36	5°♌05'06		asc. node	10295 Mar 27 16:13	26°♎49'40	
	10292 Oct 30 06:47	0°♍			10295 Mar 31 05:01	0°♏	
	10292 Nov 23 16:28	0°♎		greatest brilliancy	10295 Apr 27 03:58	17°♏49'14	-4.9m
morning set	10292 Nov 24 00:58	0°♎26'12		retrograde	10295 May 06 20:49	19°♏35'21	
	10292 Dec 18 00:29	0°♏		evening set	10295 May 25 00:56	13°♏17'30	
max. Earth dist.	10292 Dec 29 19:54	14°♏34'30	1.73107 AU	inferior conj	10295 May 27 11:50	11°♏47'19	9°09'15
				minimum elong	10295 May 27 14:55	11°♏42'35	9°08'40
superior conj	10292 Dec 30 16:51	15°♏39'09	1°04'12	min. Earth dist.	10295 May 27 15:04	11°♏42'21	0.27165 AU
minimum elong	10292 Dec 31 02:34	16°♏09'09	1°04'21	morning rise	10295 May 30 04:56	10°♏07'57	
	10293 Jan 11 07:41	0°♋		direct	10295 Jun 17 05:16	3°♏58'26	
desc. node	10293 Jan 29 14:59	22°♋37'01		greatest brilliancy	10295 Jun 26 21:59	5°♏45'20	-4.9m
	10293 Feb 04 14:16	0°♌		desc. node	10295 Jul 17 14:18	18°♏18'10	
evening rise	10293 Feb 06 15:35	2°♌32'30			10295 Jul 30 21:23	0°♏	
	10293 Feb 28 19:53	0°♍		morning max el	10295 Aug 06 11:32	6°♏24'14	46°40'42
	10293 Mar 25 00:28	0°♎			10295 Aug 28 21:51	0°♏	
	10293 Apr 18 05:14	0°♏			10295 Sep 24 12:10	0°♎	
	10293 May 12 13:10	0°♏			10295 Oct 20 04:28	0°♌	
asc. node	10293 May 22 11:48	12°♏09'28		asc. node	10295 Nov 07 11:22	21°♌45'12	
	10293 Jun 06 05:06	0°♏			10295 Nov 14 08:27	0°♍	
	10293 Jul 01 12:56	0°♎			10295 Dec 09 03:43	0°♎	
	10293 Jul 28 06:08	0°♌			10296 Jan 02 16:42	0°♏	
evening max el	10293 Aug 11 10:05	14°♌40'40	46°19'00		10296 Jan 27 01:22	0°♋	
	10293 Aug 28 02:34	0°♍		morning set	10296 Feb 01 23:44	7°♋19'54	
desc. node	10293 Sep 11 10:03	10°♍16'00			10296 Feb 20 06:55	0°♌	
greatest brilliancy	10293 Sep 19 05:50	14°♍04'30	-4.8m	desc. node	10296 Feb 27 03:50	8°♌32'07	
retrograde	10293 Sep 30 05:04	16°♍16'33		max. Earth dist.	10296 Mar 08 12:01	21°♌24'02	1.72106 AU
evening set	10293 Oct 17 08:16	10°♍39'08					
min. Earth dist.	10293 Oct 21 01:13	8°♍22'56	0.28851 AU	superior conj	10296 Mar 11 19:09	25°♌30'25	-0°32'25
inferior conj	10293 Oct 21 16:17	7°♍59'22	-7°52'38	minimum elong	10296 Mar 11 11:39	25°♌07'05	0°31'59
minimum elong	10293 Oct 21 08:21	8°♍11'47	7°51'21		10296 Mar 15 09:40	0°♍	
morning rise	10293 Oct 25 08:40	5°♍43'23			10296 Apr 08 09:54	0°♎	
	10293 Nov 09 01:43	30°♌♌		evening rise	10296 Apr 20 08:59	14°♎58'47	
direct	10293 Nov 12 01:28	29°♌49'23			10296 May 02 08:34	0°♏	
	10293 Nov 15 02:21	0°♍			10296 May 26 07:36	0°♏	
greatest brilliancy	10293 Nov 21 22:46	1°♍36'01	-4.7m	asc. node	10296 Jun 18 23:25	29°♏28'53	
morning max el	10293 Dec 30 23:32	29°♍57'20	45°44'02		10296 Jun 19 09:27	0°♏	

	10296 Jul 13 16:50	0°♍			10299 Feb 10 09:55	0°♎	
	10296 Aug 07 09:22	0°♊			10299 Mar 06 19:45	0°♋	
	10296 Sep 01 17:34	0°♌	desc. node		10299 Mar 26 16:49	24°♋38'28	
	10296 Sep 28 07:55	0°♈			10299 Mar 31 00:09	0°♍	
desc. node	10296 Oct 08 20:26	11°♈11'29	morning set		10299 Apr 16 03:20	20°♍07'58	
evening max el	10296 Oct 21 08:22	23°♈43'51 45°48'12			10299 Apr 24 00:29	0°♌	
	10296 Oct 28 01:02	0°♌			10299 May 17 22:09	0°♍	
greatest brilliancy	10296 Nov 29 11:17	21°♌59'44 -4.7m					
retrograde	10296 Dec 09 03:35	23°♌41'40	superior conj		10299 May 26 15:37	10°♍58'23 -1°27'03	
evening set	10296 Dec 26 02:20	18°♌15'58	minimum elong		10299 May 26 18:36	11°♍07'45 1°27'28	
inferior conj	10296 Dec 30 13:06	15°♌32'03 -6°33'48	max. Earth dist.		10299 May 26 09:50	10°♍40'13 1.71287 AU	
minimum elong	10296 Dec 30 23:09	15°♌16'14 6°31'20			10299 Jun 10 18:59	0°♌	
min. Earth dist.	10296 Dec 31 04:57	15°♌07'07 0.28728 AU			10299 Jul 04 17:04	0°♌	
morning rise	10297 Jan 04 19:38	12°♌18'38	evening rise		10299 Jul 06 02:23	1°♌44'13	
direct	10297 Jan 20 22:58	7°♌16'46	asc. node		10299 Jul 17 11:41	15°♌57'50	
asc. node	10297 Jan 29 20:50	8°♌45'26			10299 Jul 28 18:04	0°♍	
greatest brilliancy	10297 Jan 31 23:21	9°♌30'01 -4.8m			10299 Aug 21 23:23	0°♊	
	10297 Mar 02 08:34	0°♎			10299 Sep 15 10:50	0°♌	
morning max el	10297 Mar 11 16:54	8°♎56'01 46°19'32			10299 Oct 10 07:35	0°♈	
	10297 Mar 31 17:48	0°♋			10299 Nov 04 19:00	0°♌	
	10297 Apr 27 01:30	0°♍	desc. node		10299 Nov 06 07:12	1°♌44'42	
desc. node	10297 May 21 16:42	29°♍22'03			10299 Dec 01 06:42	0°♎	
	10297 May 22 05:15	0°♌			10299 Dec 29 20:15	0°♋	
	10297 Jun 15 19:19	0°♍	evening max el		10300 Jan 01 17:35	2°♋48'44 45°58'47	
	10297 Jul 10 02:47	0°♌			10300 Feb 06 02:37	0°♍	
	10297 Aug 03 07:54	0°♌	greatest brilliancy		10300 Feb 10 02:23	1°♍37'12 -4.8m	
	10297 Aug 27 12:56	0°♍	retrograde		10300 Feb 19 23:08	3°♍25'08	
asc. node	10297 Sep 11 11:22	18°♍29'34	asc. node		10300 Feb 27 07:41	2°♍19'08	
morning set	10297 Sep 13 10:49	20°♍56'23			10300 Mar 05 01:33	30°♋	
	10297 Sep 20 18:33	0°♊	evening set		10300 Mar 06 14:06	29°♋12'33	
	10297 Oct 15 00:47	0°♌	inferior conj		10300 Mar 12 19:18	25°♋32'17 3°21'35	
			minimum elong		10300 Mar 12 12:00	25°♋43'33 3°19'29	
superior conj	10297 Oct 20 23:36	7°♌21'12 1°17'15	min. Earth dist.		10300 Mar 12 22:47	25°♋26'53 0.27493 AU	
minimum elong	10297 Oct 20 15:52	6°♌57'19 1°17'21	morning rise		10300 Mar 18 09:32	22°♋11'41	
max. Earth dist.	10297 Oct 22 04:56	8°♌51'47 1.73078 AU	direct		10300 Apr 02 17:31	17°♋33'12	
	10297 Nov 08 07:51	0°♈	greatest brilliancy		10300 Apr 13 02:15	19°♋34'39 -4.9m	
evening rise	10297 Nov 26 14:44	22°♈31'52			10300 Apr 30 16:48	0°♍	
	10297 Dec 02 16:28	0°♌	morning max el		10300 May 23 05:30	20°♍21'55 46°57'13	
	10297 Dec 27 03:15	0°♎			10300 Jun 01 12:51	0°♌	
desc. node	10298 Jan 01 04:27	6°♎10'54	desc. node		10300 Jun 19 04:56	19°♌25'12	
	10298 Jan 20 16:15	0°♋			10300 Jun 28 11:17	0°♍	
	10298 Feb 14 07:15	0°♍			10300 Jul 23 23:44	0°♌	
	10298 Mar 11 01:16	0°♌			10300 Aug 17 22:37	0°♌	
	10298 Apr 05 02:30	0°♍			10300 Sep 11 15:48	0°♍	
asc. node	10298 Apr 24 02:42	22°♍14'28			10300 Oct 06 06:01	0°♊	
	10298 Apr 30 21:33	0°♌	asc. node		10300 Oct 10 00:25	4°♊36'25	
	10298 May 28 14:43	0°♌			10300 Oct 30 17:45	0°♌	
evening max el	10298 May 29 13:25	0°♌57'18 46°52'39	morning set		10300 Nov 22 18:06	28°♌17'55	
	10298 Jul 04 17:21	0°♍			10300 Nov 24 03:16	0°♈	
greatest brilliancy	10298 Jul 08 11:08	1°♍37'04 -4.9m			10300 Dec 18 11:13	0°♌	
retrograde	10298 Jul 18 23:16	3°♍41'32	max. Earth dist.		10300 Dec 28 16:07	12°♌35'34 1.73123 AU	
	10298 Aug 01 15:06	30°♋♌					
evening set	10298 Aug 02 20:46	29°♌20'51	superior conj		10300 Dec 29 09:19	13°♌28'39 1°06'24	
inferior conj	10298 Aug 08 22:28	25°♌45'31 1°18'16	minimum elong		10300 Dec 29 18:54	13°♌58'12 1°06'34	
minimum elong	10298 Aug 09 01:28	25°♌40'55 1°17'00			10301 Jan 11 18:27	0°♎	
min. Earth dist.	10298 Aug 08 15:35	25°♌56'07 0.27390 AU	desc. node		10301 Jan 29 16:53	22°♎09'20	
desc. node	10298 Aug 14 01:17	22°♌42'13	evening rise		10301 Feb 05 06:36	0°♋16'48	
morning rise	10298 Aug 15 06:34	22°♌02'07			10301 Feb 05 01:10	0°♋	
direct	10298 Aug 29 18:24	17°♌56'03			10301 Mar 01 06:59	0°♍	
greatest brilliancy	10298 Sep 08 14:40	19°♌42'10 -4.8m			10301 Mar 25 11:50	0°♌	
	10298 Sep 26 18:17	0°♍			10301 Apr 18 16:56	0°♍	
morning max el	10298 Oct 17 20:48	18°♍16'58 45°55'51			10301 May 13 01:22	0°♌	
	10298 Oct 29 14:39	0°♊	asc. node		10301 May 22 13:49	11°♌37'40	
	10298 Nov 26 08:24	0°♌			10301 Jun 06 18:06	0°♌	
asc. node	10298 Dec 04 23:56	9°♌47'49			10301 Jul 02 03:27	0°♍	
	10298 Dec 22 10:37	0°♈			10301 Jul 29 00:16	0°♊	
	10299 Jan 16 16:21	0°♌	evening max el		10301 Aug 10 02:21	12°♊27'51 46°20'23	

	10301 Aug 29 12:04	0° \mathbb{M}		morning set	10304 Jan 31 15:19	5° \approx 05'53	
desc. node	10301 Sep 11 11:53	8° \mathbb{M} 51'51			10304 Feb 20 17:50	0° \mathbb{H}	
greatest brilliancy	10301 Sep 17 21:00	11° \mathbb{M} 51'42	-4.8m	desc. node	10304 Feb 27 05:40	8° \mathbb{H} 03'50	
retrograde	10301 Sep 28 21:25	14° \mathbb{M} 04'25		max. Earth dist.	10304 Mar 07 00:45	19° \mathbb{H} 00'12	1.72151 AU
evening set	10301 Oct 15 20:52	8° \mathbb{M} 32'16					
min. Earth dist.	10301 Oct 19 15:54	6° \mathbb{M} 12'55	0.28813 AU	superior conj	10304 Mar 10 08:21	23° \mathbb{H} 07'58	-0°28'55
inferior conj	10301 Oct 20 08:05	5° \mathbb{M} 47'35	-7°43'43	minimum elong	10304 Mar 10 01:36	22° \mathbb{H} 46'57	0°28'30
minimum elong	10301 Oct 19 23:41	6° \mathbb{M} 00'44	7°42'19		10304 Mar 15 20:37	0° \mathbb{Y}	
morning rise	10301 Oct 24 02:48	3° \mathbb{M} 28'09			10304 Apr 08 20:55	0° \mathbb{B}	
	10301 Oct 30 19:12	30° \mathbb{R} \mathbb{A}		evening rise	10304 Apr 18 20:50	12° \mathbb{B} 30'54	
direct	10301 Nov 10 17:35	27° \mathbb{A} 38'28			10304 May 02 19:43	0° \mathbb{I}	
greatest brilliancy	10301 Nov 20 12:42	29° \mathbb{A} 23'24	-4.7m		10304 May 26 18:55	0° \mathbb{G}	
	10301 Nov 22 04:40	0° \mathbb{M}		asc. node	10304 Jun 19 01:26	28° \mathbb{G} 59'21	
morning max el	10301 Dec 29 14:44	27° \mathbb{M} 44'28	45°43'23		10304 Jun 19 20:59	0° \mathbb{Q}	
	10301 Dec 31 22:25	0° \mathbb{J}			10304 Jul 14 04:44	0° \mathbb{P}	
asc. node	10302 Jan 02 11:40	1° \mathbb{J} 31'55			10304 Aug 07 21:54	0° \mathbb{A}	
	10302 Jan 29 07:22	0° \mathbb{Z}			10304 Sep 02 07:20	0° \mathbb{M}	
	10302 Feb 24 10:15	0° \approx			10304 Sep 29 00:31	0° \mathbb{J}	
	10302 Mar 21 13:19	0° \mathbb{H}		desc. node	10304 Oct 08 22:26	10° \mathbb{J} 28'39	
	10302 Apr 15 03:20	0° \mathbb{Y}		evening max el	10304 Oct 19 22:10	21° \mathbb{J} 27'53	45°48'44
desc. node	10302 Apr 24 05:51	11° \mathbb{Y} 13'41			10304 Oct 29 03:14	0° \mathbb{Z}	
	10302 May 09 09:15	0° \mathbb{B}		greatest brilliancy	10304 Nov 28 02:28	19° \mathbb{Z} 48'34	-4.7m
	10302 Jun 02 10:14	0° \mathbb{I}		retrograde	10304 Dec 07 18:56	21° \mathbb{Z} 31'01	
	10302 Jun 26 09:03	0° \mathbb{G}		evening set	10304 Dec 24 20:56	16° \mathbb{Z} 00'28	
morning set	10302 Jul 01 19:24	6° \mathbb{G} 48'16		inferior conj	10304 Dec 29 05:02	13° \mathbb{Z} 20'37	-6°46'45
	10302 Jul 20 08:04	0° \mathbb{Q}		minimum elong	10304 Dec 29 14:59	13° \mathbb{Z} 05'00	6°44'23
				min. Earth dist.	10304 Dec 29 20:41	12° \mathbb{Z} 56'01	0.28773 AU
superior conj	10302 Aug 10 04:03	26° \mathbb{Q} 00'57	-0°11'47	morning rise	10305 Jan 03 08:41	10° \mathbb{Z} 11'22	
minimum elong	10302 Aug 10 06:58	26° \mathbb{Q} 10'01	0°11'56	direct	10305 Jan 19 14:35	5° \mathbb{Z} 04'44	
behind sun begin	10302 Aug 09 14:14	25° \mathbb{Q} 17'51		asc. node	10305 Jan 29 22:47	7° \mathbb{Z} 02'25	
behind sun end	10302 Aug 10 23:42	27° \mathbb{Q} 02'12		greatest brilliancy	10305 Jan 30 15:53	7° \mathbb{Z} 18'25	-4.8m
max. Earth dist.	10302 Aug 13 04:04	29° \mathbb{Q} 45'22	1.72070 AU		10305 Mar 03 10:19	0° \approx	
	10302 Aug 13 08:45	0° \mathbb{P}		morning max el	10305 Mar 10 07:58	6° \approx 39'39	46°17'54
asc. node	10302 Aug 15 00:16	2° \mathbb{P} 03'05			10305 Apr 01 10:37	0° \mathbb{H}	
	10302 Sep 06 11:46	0° \mathbb{A}			10305 Apr 27 15:35	0° \mathbb{Y}	
evening rise	10302 Sep 17 11:17	13° \mathbb{A} 36'31		desc. node	10305 May 21 18:46	28° \mathbb{Y} 49'31	
	10302 Sep 30 17:36	0° \mathbb{M}			10305 May 22 18:03	0° \mathbb{B}	
	10302 Oct 25 03:17	0° \mathbb{J}			10305 Jun 16 07:24	0° \mathbb{I}	
	10302 Nov 18 18:29	0° \mathbb{Z}			10305 Jul 10 14:24	0° \mathbb{G}	
desc. node	10302 Dec 04 18:34	19° \mathbb{Z} 18'01			10305 Aug 03 19:11	0° \mathbb{Q}	
	10302 Dec 13 16:56	0° \approx			10305 Aug 27 23:57	0° \mathbb{P}	
	10303 Jan 08 00:29	0° \mathbb{H}		asc. node	10305 Sep 11 13:13	18° \mathbb{P} 01'25	
	10303 Feb 02 21:22	0° \mathbb{Y}		morning set	10305 Sep 12 02:14	18° \mathbb{P} 41'44	
	10303 Mar 01 21:35	0° \mathbb{B}			10305 Sep 21 05:24	0° \mathbb{A}	
evening max el	10303 Mar 16 05:36	14° \mathbb{B} 50'44	46°37'57		10305 Oct 15 11:32	0° \mathbb{M}	
asc. node	10303 Mar 27 18:08	25° \mathbb{B} 48'24					
	10303 Apr 01 13:20	0° \mathbb{I}		superior conj	10305 Oct 19 16:43	5° \mathbb{M} 12'39	1°15'44
greatest brilliancy	10303 Apr 25 17:22	15° \mathbb{I} 23'43	-4.9m	minimum elong	10305 Oct 19 08:32	4° \mathbb{M} 47'24	1°15'47
retrograde	10303 May 05 09:05	17° \mathbb{I} 08'52		max. Earth dist.	10305 Oct 20 21:45	6° \mathbb{M} 42'19	1.73055 AU
evening set	10303 May 23 14:24	10° \mathbb{I} 50'24			10305 Nov 08 18:35	0° \mathbb{J}	
inferior conj	10303 May 26 00:39	9° \mathbb{I} 21'07	9°11'58	evening rise	10305 Nov 25 07:54	20° \mathbb{J} 23'58	
minimum elong	10303 May 26 02:44	9° \mathbb{I} 17'52	9°11'28		10305 Dec 03 03:16	0° \mathbb{Z}	
min. Earth dist.	10303 May 26 03:44	9° \mathbb{I} 16'21	0.27169 AU		10305 Dec 27 14:15	0° \approx	
morning rise	10303 May 28 15:05	7° \mathbb{I} 45'30		desc. node	10306 Jan 01 06:25	5° \approx 43'05	
direct	10303 Jun 15 17:47	1° \mathbb{I} 32'04			10306 Jan 21 03:35	0° \mathbb{H}	
greatest brilliancy	10303 Jun 25 10:55	3° \mathbb{I} 18'52	-4.9m		10306 Feb 14 19:07	0° \mathbb{Y}	
desc. node	10303 Jul 17 16:18	17° \mathbb{I} 07'40			10306 Mar 11 13:55	0° \mathbb{B}	
	10303 Jul 31 23:03	0° \mathbb{G}			10306 Apr 05 16:25	0° \mathbb{I}	
morning max el	10303 Aug 04 23:47	3° \mathbb{G} 57'33	46°42'14	asc. node	10306 Apr 24 04:44	21° \mathbb{I} 35'59	
	10303 Aug 29 14:58	0° \mathbb{Q}			10306 May 01 13:50	0° \mathbb{G}	
	10303 Sep 25 02:17	0° \mathbb{P}		evening max el	10306 May 28 02:52	28° \mathbb{G} 33'36	46°53'12
	10303 Oct 20 17:05	0° \mathbb{A}			10306 May 29 13:24	0° \mathbb{Q}	
asc. node	10303 Nov 07 13:24	21° \mathbb{A} 15'32		greatest brilliancy	10306 Jul 07 01:54	29° \mathbb{Q} 15'39	-4.9m
	10303 Nov 14 20:12	0° \mathbb{M}			10306 Jul 09 05:34	0° \mathbb{P}	
	10303 Dec 09 15:00	0° \mathbb{J}		retrograde	10306 Jul 17 13:41	1° \mathbb{P} 19'58	
	10304 Jan 03 03:45	0° \mathbb{Z}			10306 Jul 25 15:27	30° \mathbb{R} \mathbb{Q}	
	10304 Jan 27 12:19	0° \approx		evening set	10306 Aug 01 12:03	26° \mathbb{Q} 15'03	

inferior conj	10306 Aug 07 12:05	23° Ω 24'21	1°41'19	minimum elong	10308 Dec 27 11:31	11° \mathfrak{Z} 48'49	1°08'40
minimum elong	10306 Aug 07 15:57	23° Ω 18'26	1°39'46		10309 Jan 11 05:01	0° \approx	
min. Earth dist.	10306 Aug 07 06:05	23° Ω 33'33	0.27358 AU	desc. node	10309 Jan 28 18:44	21° \approx 42'09	
morning rise	10306 Aug 13 20:14	19° Ω 41'20		evening rise	10309 Feb 02 22:01	28° \approx 03'06	
desc. node	10306 Aug 14 03:10	19° Ω 32'10			10309 Feb 04 11:50	0° \mathfrak{H}	
direct	10306 Aug 28 07:34	15° Ω 35'04			10309 Feb 28 17:50	0° Υ	
greatest brilliancy	10306 Sep 07 04:25	17° Ω 22'05	-4.8m		10309 Mar 24 22:55	0° \mathfrak{C}	
	10306 Sep 28 08:40	0° \mathfrak{M}			10309 Apr 18 04:23	0° Π	
morning max el	10306 Oct 16 11:56	16° \mathfrak{M} 02'18	45°57'14		10309 May 12 13:22	0° \mathfrak{S}	
	10306 Oct 30 09:35	0° \mathfrak{L}		asc. node	10309 May 21 15:47	11° \mathfrak{S} 06'18	
	10306 Nov 26 22:58	0° \mathfrak{M}			10309 Jun 06 07:01	0° Ω	
asc. node	10306 Dec 05 01:52	9° \mathfrak{M} 13'55			10309 Jul 01 18:02	0° \mathfrak{M}	
	10306 Dec 22 23:20	0° \mathfrak{J}			10309 Jul 28 18:48	0° \mathfrak{L}	
	10307 Jan 17 04:08	0° \mathfrak{Z}		evening max el	10309 Aug 07 18:11	10° \mathfrak{L} 13'58	46°21'47
	10307 Feb 10 21:12	0° \approx			10309 Aug 30 00:51	0° \mathfrak{M}	
	10307 Mar 07 06:48	0° \mathfrak{H}		desc. node	10309 Sep 10 13:55	7° \mathfrak{M} 25'19	
desc. node	10307 Mar 26 18:44	24° \mathfrak{H} 10'19		greatest brilliancy	10309 Sep 15 12:53	9° \mathfrak{M} 39'49	-4.8m
	10307 Mar 31 11:07	0° Υ		retrograde	10309 Sep 26 13:16	11° \mathfrak{M} 52'22	
morning set	10307 Apr 14 14:39	17° Υ 39'08		evening set	10309 Oct 13 09:24	6° \mathfrak{M} 25'47	
	10307 Apr 24 11:25	0° \mathfrak{C}		inferior conj	10309 Oct 17 23:49	3° \mathfrak{M} 36'11	-7°34'10
	10307 May 18 09:04	0° Π		minimum elong	10309 Oct 17 14:59	3° \mathfrak{M} 50'02	7°32'38
				min. Earth dist.	10309 Oct 17 06:52	4° \mathfrak{M} 02'44	0.28768 AU
superior conj	10307 May 25 02:46	8° Π 28'13	-1°27'27	morning rise	10309 Oct 21 20:54	1° \mathfrak{M} 13'06	
minimum elong	10307 May 25 04:41	8° Π 34'13	1°27'53		10309 Oct 23 23:54	30° \mathfrak{R} \mathfrak{L}	
max. Earth dist.	10307 May 24 18:31	8° Π 02'15	1.71290 AU	direct	10309 Nov 08 09:15	25° \mathfrak{L} 28'05	
	10307 Jun 11 05:54	0° \mathfrak{S}		greatest brilliancy	10309 Nov 18 02:49	27° \mathfrak{L} 11'31	-4.7m
evening rise	10307 Jul 04 13:56	29° \mathfrak{S} 16'00			10309 Nov 24 15:12	0° \mathfrak{M}	
	10307 Jul 05 03:59	0° Ω		morning max el	10309 Dec 27 05:03	25° \mathfrak{M} 30'21	45°42'52
asc. node	10307 Jul 17 13:30	15° Ω 29'18			10309 Dec 31 19:02	0° \mathfrak{J}	
	10307 Jul 29 05:04	0° \mathfrak{M}		asc. node	10310 Jan 01 13:35	0° \mathfrak{J} 46'18	
	10307 Aug 22 10:32	0° \mathfrak{L}			10310 Jan 28 22:18	0° \mathfrak{Z}	
	10307 Sep 15 22:18	0° \mathfrak{M}			10310 Feb 23 23:07	0° \approx	
	10307 Oct 10 19:38	0° \mathfrak{J}			10310 Mar 21 01:13	0° \mathfrak{H}	
	10307 Nov 05 08:11	0° \mathfrak{Z}			10310 Apr 14 14:42	0° Υ	
desc. node	10307 Nov 06 09:15	1° \mathfrak{Z} 12'20		desc. node	10310 Apr 23 07:54	10° Υ 45'19	
	10307 Dec 01 22:14	0° \approx			10310 May 08 20:17	0° \mathfrak{C}	
	10307 Dec 30 18:15	0° \mathfrak{H}			10310 Jun 01 21:05	0° Π	
evening max el	10307 Dec 31 09:16	0° \mathfrak{H} 36'13	45°57'50		10310 Jun 25 19:47	0° \mathfrak{S}	
greatest brilliancy	10308 Feb 08 15:54	29° \mathfrak{H} 18'17	-4.8m	morning set	10310 Jun 29 07:54	4° \mathfrak{S} 23'33	
	10308 Feb 10 21:10	0° Υ			10310 Jul 19 18:43	0° Ω	
retrograde	10308 Feb 18 13:16	1° Υ 06'09					
	10308 Feb 25 22:16	30° \mathfrak{R} \mathfrak{H}		superior conj	10310 Aug 07 17:39	23° Ω 40'38	-0°15'25
asc. node	10308 Feb 27 09:34	29° \mathfrak{H} 31'05		minimum elong	10310 Aug 07 21:26	23° Ω 52'26	0°15'33
evening set	10308 Mar 04 03:12	26° \mathfrak{H} 54'56		behind sun begin	10310 Aug 07 14:51	23° Ω 31'55	
inferior conj	10308 Mar 10 09:21	23° \mathfrak{H} 12'53	2°59'55	behind sun end	10310 Aug 08 04:01	24° Ω 12'57	
minimum elong	10308 Mar 10 02:46	23° \mathfrak{H} 23'05	2°58'01	max. Earth dist.	10310 Aug 10 18:10	27° Ω 26'42	1.72029 AU
min. Earth dist.	10308 Mar 10 13:11	23° \mathfrak{H} 06'57	0.27521 AU		10310 Aug 12 19:22	0° \mathfrak{M}	
morning rise	10308 Mar 16 02:00	19° \mathfrak{H} 48'51		asc. node	10310 Aug 14 02:09	1° \mathfrak{M} 35'55	
direct	10308 Mar 31 08:32	15° \mathfrak{H} 13'31			10310 Sep 05 22:21	0° \mathfrak{L}	
greatest brilliancy	10308 Apr 10 16:55	17° \mathfrak{H} 14'48	-4.9m	evening rise	10310 Sep 15 03:03	11° \mathfrak{L} 23'57	
	10308 May 01 06:08	0° Υ			10310 Sep 30 04:12	0° \mathfrak{M}	
morning max el	10308 May 20 20:18	18° Υ 02'33	46°56'25		10310 Oct 24 14:04	0° \mathfrak{J}	
	10308 Jun 01 07:58	0° \mathfrak{C}			10310 Nov 18 05:37	0° \mathfrak{Z}	
desc. node	10308 Jun 18 06:52	18° \mathfrak{C} 45'13		desc. node	10310 Dec 03 20:30	18° \mathfrak{Z} 49'26	
	10308 Jun 28 02:18	0° Π			10310 Dec 13 04:40	0° \approx	
	10308 Jul 23 12:57	0° \mathfrak{S}			10311 Jan 07 13:14	0° \mathfrak{H}	
	10308 Aug 17 10:50	0° Ω			10311 Feb 02 11:55	0° Υ	
	10308 Sep 11 03:21	0° \mathfrak{M}			10311 Mar 01 16:09	0° \mathfrak{C}	
	10308 Oct 05 17:06	0° \mathfrak{L}		evening max el	10311 Mar 13 18:13	12° \mathfrak{C} 26'29	46°36'42
asc. node	10308 Oct 09 02:25	4° \mathfrak{L} 08'48		asc. node	10311 Mar 26 20:16	24° \mathfrak{C} 47'41	
	10308 Oct 30 04:32	0° \mathfrak{M}			10311 Apr 01 23:46	0° Π	
morning set	10308 Nov 20 11:16	26° \mathfrak{M} 10'22		greatest brilliancy	10311 Apr 23 07:05	13° Π 00'31	-4.9m
	10308 Nov 23 13:51	0° \mathfrak{J}		retrograde	10311 May 02 21:34	14° Π 44'56	
	10308 Dec 17 21:45	0° \mathfrak{Z}		evening set	10311 May 21 03:27	8° Π 26'40	
max. Earth dist.	10308 Dec 26 11:03	10° \mathfrak{Z} 33'19	1.73136 AU	inferior conj	10311 May 23 13:44	6° Π 57'20	9°13'32
				minimum elong	10311 May 23 14:49	6° Π 55'40	9°13'06
superior conj	10308 Dec 27 02:08	11° \mathfrak{Z} 19'52	1°08'28	min. Earth dist.	10311 May 23 16:47	6° Π 52'38	0.27174 AU

morning rise	10311 May 26 02:11	5° Π 24'40			10313 Dec 02 13:47	0° Ξ		
	10311 Jun 06 17:39	30° κ Ξ			10313 Dec 27 00:58	0° \approx		
direct	10311 Jun 13 06:12	29° Ξ 07'55		desc. node	10313 Dec 31 08:14	5° \approx 15'41		
	10311 Jun 19 23:30	0° Π			10314 Jan 20 14:40	0° κ		
greatest brilliancy	10311 Jun 23 00:28	0° Π 55'17	-4.9m		10314 Feb 14 06:43	0° Υ		
desc. node	10311 Jul 16 18:13	16° Π 00'43			10314 Mar 11 02:19	0° Ξ		
	10311 Jul 31 22:49	0° Ξ			10314 Apr 05 06:05	0° Π		
morning max el	10311 Aug 02 12:26	1° Ξ 33'14	46°43'35	asc. node	10314 Apr 23 06:43	20° Π 58'00		
	10311 Aug 29 07:17	0° Ω			10314 May 01 06:02	0° Ξ		
	10311 Sep 24 15:53	0° Π		evening max el	10314 May 25 17:26	26° Ξ 13'49	46°53'40	
	10311 Oct 20 05:18	0° Ξ			10314 May 29 12:38	0° Ω		
asc. node	10311 Nov 06 15:20	20° Ξ 46'29		greatest brilliancy	10314 Jul 04 16:30	26° Ω 55'11	-4.9m	
	10311 Nov 14 07:36	0° Π		retrograde	10314 Jul 15 04:26	28° Ω 59'23		
	10311 Dec 09 01:55	0° κ		evening set	10314 Jul 30 03:36	24° Ω 34'13		
	10312 Jan 02 14:23	0° Ξ		inferior conj	10314 Aug 05 01:43	21° Ω 04'12	2°04'11	
	10312 Jan 26 22:50	0° \approx		minimum elong	10314 Aug 05 06:25	20° Ω 56'59	2°02'23	
morning set	10312 Jan 29 07:02	2° \approx 53'36		min. Earth dist.	10314 Aug 04 20:23	21° Ω 12'23	0.27326 AU	
	10312 Feb 20 04:20	0° κ		morning rise	10314 Aug 11 09:42	17° Ω 21'52		
desc. node	10312 Feb 26 07:35	7° κ 37'09		desc. node	10314 Aug 13 05:10	16° Ω 26'39		
max. Earth dist.	10312 Mar 04 16:00	16° κ 45'35	1.72197 AU	direct	10314 Aug 25 21:15	13° Ω 15'17		
				greatest brilliancy	10314 Sep 04 17:36	15° Ω 02'27	-4.8m	
superior conj	10312 Mar 07 21:47	20° κ 47'38	-0°25'24		10314 Sep 28 18:50	0° Π		
minimum elong	10312 Mar 07 15:49	20° κ 29'02	0°25'00	morning max el	10314 Oct 14 03:18	13° Π 49'20	45°58'29	
	10312 Mar 15 07:09	0° Υ			10314 Oct 30 03:39	0° Ξ		
	10312 Apr 08 07:33	0° Ξ			10314 Nov 26 13:04	0° Π		
evening rise	10312 Apr 16 09:10	10° Ξ 05'52		asc. node	10314 Dec 04 03:44	8° Π 40'44		
	10312 May 02 06:27	0° Π			10314 Dec 22 11:45	0° κ		
	10312 May 26 05:47	0° Ξ			10315 Jan 16 15:42	0° Ξ		
asc. node	10312 Jun 18 03:17	28° Ξ 30'45			10315 Feb 10 08:19	0° \approx		
	10312 Jun 19 08:04	0° Ω			10315 Mar 06 17:40	0° κ		
	10312 Jul 13 16:11	0° Π		desc. node	10315 Mar 25 20:44	23° κ 43'00		
	10312 Aug 07 10:03	0° Ξ			10315 Mar 30 21:52	0° Υ		
	10312 Sep 01 20:50	0° Π		morning set	10315 Apr 12 02:03	15° Υ 11'19		
	10312 Sep 28 17:04	0° κ			10315 Apr 23 22:08	0° Ξ		
desc. node	10312 Oct 08 00:30	9° κ 46'16			10315 May 17 19:45	0° Π		
evening max el	10312 Oct 17 12:40	19° κ 14'34	45°49'17	max. Earth dist.	10315 May 22 03:56	5° Π 27'21	1.71295 AU	
	10312 Oct 29 06:39	0° Ξ						
greatest brilliancy	10312 Nov 25 17:07	17° Ξ 37'38	-4.7m	superior conj	10315 May 22 13:58	5° Π 58'53	-1°27'41	
retrograde	10312 Dec 05 10:43	19° Ξ 21'14		minimum elong	10315 May 22 14:48	6° Π 01'30	1°28'07	
evening set	10312 Dec 22 15:27	13° Ξ 45'48			10315 Jun 10 16:36	0° Ξ		
inferior conj	10312 Dec 26 20:56	11° Ξ 10'01	-6°59'02	evening rise	10315 Jul 02 01:27	26° Ξ 48'13		
minimum elong	10312 Dec 27 06:41	10° Ξ 54'42	6°56'49		10315 Jul 04 14:45	0° Ω		
min. Earth dist.	10312 Dec 27 12:05	10° Ξ 46'15	0.28813 AU	asc. node	10315 Jul 16 15:27	15° Ω 01'43		
morning rise	10312 Dec 31 21:36	8° Ξ 05'17			10315 Jul 28 15:54	0° Π		
direct	10313 Jan 17 06:27	2° Ξ 53'38			10315 Aug 21 21:32	0° Ξ		
greatest brilliancy	10313 Jan 28 08:03	5° Ξ 07'38	-4.8m		10315 Sep 15 09:36	0° Π		
asc. node	10313 Jan 29 00:43	5° Ξ 24'06			10315 Oct 10 07:34	0° κ		
	10313 Mar 03 10:16	0° \approx			10315 Nov 04 21:19	0° Ξ		
morning max el	10313 Mar 07 23:51	4° \approx 26'44	46°16'19	desc. node	10315 Nov 05 11:10	0° Ξ 39'51		
	10313 Apr 01 02:39	0° κ			10315 Dec 01 13:57	0° \approx		
	10313 Apr 27 05:04	0° Υ		evening max el	10315 Dec 29 00:41	28° \approx 23'04	45°56'41	
desc. node	10313 May 20 20:34	28° Υ 17'35			10315 Dec 30 17:13	0° κ		
	10313 May 22 06:22	0° Ξ		greatest brilliancy	10316 Feb 06 06:00	26° κ 59'48	-4.8m	
	10313 Jun 15 19:03	0° Π		retrograde	10316 Feb 16 02:49	28° κ 46'43		
	10313 Jul 10 01:35	0° Ξ		asc. node	10316 Feb 26 11:42	26° κ 37'11		
	10313 Aug 03 06:02	0° Ω		evening set	10316 Mar 01 16:24	24° κ 36'47		
	10313 Aug 27 10:34	0° Π		inferior conj	10316 Mar 07 23:20	20° κ 53'19	2°37'57	
morning set	10313 Sep 09 17:46	16° Π 28'38		minimum elong	10316 Mar 07 17:29	21° κ 02'23	2°36'16	
asc. node	10313 Sep 10 15:11	17° Π 34'58		min. Earth dist.	10316 Mar 08 03:55	20° κ 46'12	0.27547 AU	
	10313 Sep 20 15:52	0° Ξ		morning rise	10316 Mar 13 18:12	17° κ 25'50		
	10313 Oct 14 21:56	0° Π		direct	10316 Mar 28 23:08	12° κ 53'40		
				greatest brilliancy	10316 Apr 08 07:57	14° κ 55'05	-4.9m	
superior conj	10313 Oct 17 09:43	3° Π 04'47	1°14'06		10316 May 01 16:03	0° Υ		
minimum elong	10313 Oct 17 01:09	2° Π 38'20	1°14'07	morning max el	10316 May 18 10:02	15° Υ 40'31	46°55'39	
max. Earth dist.	10313 Oct 18 16:02	4° Π 38'27	1.73039 AU		10316 Jun 01 02:31	0° Ξ		
	10313 Nov 08 05:00	0° κ		desc. node	10316 Jun 17 08:50	18° Ξ 05'54		
evening rise	10313 Nov 23 00:57	18° κ 16'34			10316 Jun 27 17:02	0° Π		

	10316 Jul 23 02:00	0°☿				10319 Mar 01 11:38	0°♄		
	10316 Aug 16 22:56	0°♁		evening max el		10319 Mar 11 06:30	10°♄00'26	46°35'16	
	10316 Sep 10 14:51	0°♂		asc. node		10319 Mar 25 22:10	23°♄43'32		
	10316 Oct 05 04:10	0°♂				10319 Apr 02 14:37	0°♂		
asc. node	10316 Oct 08 04:20	3°♂40'57		greatest brilliancy		10319 Apr 20 20:06	10°♂34'41	-4.9m	
	10316 Oct 29 15:17	0°♂		retrograde		10319 Apr 30 10:04	12°♂19'06		
morning set	10316 Nov 18 04:35	24°♂03'18		evening set		10319 May 18 15:36	6°♂01'36		
	10316 Nov 23 00:26	0°♂		inferior conj		10319 May 21 02:35	4°♂31'23	9°14'07	
	10316 Dec 17 08:18	0°♂		minimum elong		10319 May 21 02:38	4°♂31'18	9°13'42	
max. Earth dist.	10316 Dec 24 04:57	8°♂27'52	1.73152 AU	min. Earth dist.		10319 May 21 05:30	4°♂26'54	0.27182 AU	
				morning rise		10319 May 23 13:39	3°♂00'51		
superior conj	10316 Dec 24 19:09	9°♂11'40	1°10'26			10319 May 28 23:06	30°♂		
minimum elong	10316 Dec 25 04:17	9°♂39'52	1°10'40	direct		10319 Jun 10 18:32	26°♂41'23		
	10317 Jan 10 15:38	0°♂		greatest brilliancy		10319 Jun 20 13:50	28°♂29'38	-4.9m	
desc. node	10317 Jan 27 20:45	21°♂15'15				10319 Jun 24 06:20	0°♂		
evening rise	10317 Jan 31 13:25	25°♂49'08		desc. node		10319 Jul 15 20:16	14°♂54'12		
	10317 Feb 03 22:37	0°♂		morning max el		10319 Jul 31 01:50	29°♂09'17	46°45'03	
	10317 Feb 28 04:50	0°♂				10319 Jul 31 22:07	0°♂		
	10317 Mar 24 10:10	0°♂				10319 Aug 28 23:45	0°♂		
	10317 Apr 17 16:00	0°♂				10319 Sep 24 05:44	0°♂		
	10317 May 12 01:33	0°♂				10319 Oct 19 17:48	0°♂		
asc. node	10317 May 20 17:40	10°♂34'10		asc. node		10319 Nov 05 17:09	20°♂16'08		
	10317 Jun 05 20:08	0°♂				10319 Nov 13 19:19	0°♂		
	10317 Jul 01 08:55	0°♂				10319 Dec 08 13:11	0°♂		
	10317 Jul 28 13:57	0°♂				10320 Jan 02 01:24	0°♂		
evening max el	10317 Aug 05 09:08	7°♂57'23	46°23'07			10320 Jan 26 09:44	0°♂		
	10317 Aug 30 18:17	0°♂		morning set		10320 Jan 26 23:05	0°♂41'16		
desc. node	10317 Sep 09 16:02	5°♂55'20				10320 Feb 19 15:11	0°♂		
greatest brilliancy	10317 Sep 13 05:09	7°♂27'42	-4.8m	desc. node		10320 Feb 25 09:35	7°♂09'35		
retrograde	10317 Sep 24 04:46	9°♂39'48		max. Earth dist.		10320 Mar 02 09:21	14°♂36'26	1.72240 AU	
evening set	10317 Oct 10 21:53	4°♂18'40							
min. Earth dist.	10317 Oct 14 22:16	1°♂51'25	0.28722 AU	superior conj		10320 Mar 05 11:29	18°♂27'01	-0°21'52	
inferior conj	10317 Oct 15 15:32	1°♂24'19	-7°23'54	minimum elong		10320 Mar 05 06:19	18°♂10'55	0°21'28	
minimum elong	10317 Oct 15 06:19	1°♂38'46	7°22'13			10320 Mar 14 18:03	0°♂		
	10317 Oct 17 21:41	30°♂				10320 Apr 07 18:33	0°♂		
morning rise	10317 Oct 19 15:06	28°♂57'25		evening rise		10320 Apr 13 21:41	7°♂40'18		
direct	10317 Nov 06 00:17	23°♂17'03				10320 May 01 17:37	0°♂		
greatest brilliancy	10317 Nov 15 17:32	24°♂59'39	-4.7m			10320 May 25 17:07	0°♂		
	10317 Nov 26 04:33	0°♂		asc. node		10320 Jun 17 05:14	28°♂00'59		
morning max el	10317 Dec 24 18:54	23°♂14'36	45°42'32			10320 Jun 18 19:39	0°♂		
asc. node	10317 Dec 31 15:34	0°♂01'04				10320 Jul 13 04:10	0°♂		
	10317 Dec 31 15:09	0°♂				10320 Aug 06 22:45	0°♂		
	10318 Jan 28 13:12	0°♂				10320 Sep 01 10:57	0°♂		
	10318 Feb 23 12:07	0°♂				10320 Sep 28 10:28	0°♂		
	10318 Mar 20 13:19	0°♂		desc. node		10320 Oct 07 02:23	9°♂01'33		
	10318 Apr 14 02:19	0°♂		evening max el		10320 Oct 15 03:58	17°♂01'55	45°49'57	
desc. node	10318 Apr 22 09:46	10°♂15'29				10320 Oct 29 12:36	0°♂		
	10318 May 08 07:37	0°♂		greatest brilliancy		10320 Nov 23 07:15	15°♂24'59	-4.7m	
	10318 Jun 01 08:13	0°♂		retrograde		10320 Dec 03 02:46	17°♂10'08		
	10318 Jun 25 06:47	0°♂		evening set		10320 Dec 20 09:58	11°♂29'54		
morning set	10318 Jun 26 20:02	1°♂56'47		inferior conj		10320 Dec 24 12:47	8°♂58'03	-7°10'49	
	10318 Jul 19 05:37	0°♂		minimum elong		10320 Dec 24 22:18	8°♂43'08	7°08'43	
				min. Earth dist.		10320 Dec 25 03:03	8°♂35'41	0.28851 AU	
superior conj	10318 Aug 05 07:05	21°♂19'05	-0°19'03	morning rise		10320 Dec 29 10:23	5°♂58'02		
minimum elong	10318 Aug 05 11:44	21°♂33'35	0°19'10	direct		10321 Jan 14 22:49	0°♂41'19		
max. Earth dist.	10318 Aug 08 06:37	25°♂02'08	1.71986 AU	greatest brilliancy		10321 Jan 25 23:33	2°♂54'57	-4.8m	
	10318 Aug 12 06:11	0°♂		asc. node		10321 Jan 28 02:47	3°♂48'04		
asc. node	10318 Aug 13 04:08	1°♂08'22				10321 Mar 03 09:36	0°♂		
	10318 Sep 05 09:10	0°♂		morning max el		10321 Mar 05 16:24	2°♂14'30	46°14'50	
evening rise	10318 Sep 12 18:49	9°♂10'32				10321 Mar 31 18:49	0°♂		
	10318 Sep 29 15:06	0°♂				10321 Apr 26 18:50	0°♂		
	10318 Oct 24 01:10	0°♂		desc. node		10321 May 19 22:32	27°♂45'03		
	10318 Nov 17 17:04	0°♂				10321 May 21 19:01	0°♂		
desc. node	10318 Dec 02 22:26	18°♂19'53				10321 Jun 15 07:04	0°♂		
	10318 Dec 12 16:44	0°♂				10321 Jul 09 13:12	0°♂		
	10319 Jan 07 02:20	0°♂				10321 Aug 02 17:21	0°♂		
	10319 Feb 02 02:58	0°♂				10321 Aug 26 21:39	0°♂		

morning set	10321 Sep 07 09:00	14° \cap 13'07		minimum elong	10324 Mar 05 08:26	18° X 41'45	2°14'24
asc. node	10321 Sep 09 17:06	17° \cap 06'51		min. Earth dist.	10324 Mar 05 19:09	18° X 25'06	0.27577 AU
	10321 Sep 20 02:47	0° $\underline{\cap}$		morning rise	10324 Mar 11 10:25	15° X 03'04	
	10321 Oct 14 08:45	0° \cap		direct	10324 Mar 26 13:27	10° X 33'42	
				greatest brilliancy	10324 Apr 05 23:48	12° X 36'02	-4.9m
superior conj	10321 Oct 15 02:27	0° \cap 54'41	1°12'21		10324 May 01 23:28	0° \cap	
minimum elong	10321 Oct 14 17:32	0° \cap 27'07	1°12'19	morning max el	10324 May 15 23:13	13° \cap 16'35	46°55'00
max. Earth dist.	10321 Oct 16 12:08	2° \cap 38'49	1.73017 AU		10324 May 31 20:45	0° X	
	10321 Nov 07 15:49	0° X		desc. node	10324 Jun 16 10:50	17° X 26'42	
evening rise	10321 Nov 20 17:58	16° X 07'48			10324 Jun 27 07:42	0° \cap	
	10321 Dec 02 00:42	0° X			10324 Jul 22 15:02	0° X	
	10321 Dec 26 12:08	0° \approx			10324 Aug 16 11:03	0° \cap	
desc. node	10321 Dec 30 10:17	4° \approx 47'41			10324 Sep 10 02:23	0° \cap	
	10322 Jan 20 02:11	0° X			10324 Oct 04 15:18	0° $\underline{\cap}$	
	10322 Feb 13 18:46	0° \cap		asc. node	10324 Oct 07 06:09	3° $\underline{\cap}$ 12'30	
	10322 Mar 10 15:08	0° X			10324 Oct 29 02:10	0° \cap	
	10322 Apr 04 20:13	0° \cap		morning set	10324 Nov 15 21:47	21° \cap 55'23	
asc. node	10322 Apr 22 08:38	20° \cap 18'35			10324 Nov 22 11:09	0° X	
	10322 Apr 30 22:51	0° X			10324 Dec 16 18:58	0° X	
evening max el	10322 May 23 08:39	23° X 54'41	46°53'56	max. Earth dist.	10324 Dec 21 21:43	6° X 18'37	1.73165 AU
	10322 May 29 13:23	0° \cap					
greatest brilliancy	10322 Jul 02 07:07	24° \cap 33'33	-4.9m	superior conj	10324 Dec 22 12:08	7° X 03'05	1°12'17
retrograde	10322 Jul 12 18:56	26° \cap 37'09		minimum elong	10324 Dec 22 20:59	7° X 30'22	1°12'32
evening set	10322 Jul 27 19:17	22° \cap 09'47			10325 Jan 10 02:22	0° \approx	
inferior conj	10322 Aug 02 15:17	18° \cap 42'27	2°27'03	desc. node	10325 Jan 26 22:39	20° \approx 47'48	
minimum elong	10322 Aug 02 20:48	18° \cap 33'59	2°24'59	evening rise	10325 Jan 29 04:50	23° \approx 35'04	
min. Earth dist.	10322 Aug 02 10:35	18° \cap 49'39	0.27298 AU		10325 Feb 03 09:29	0° X	
morning rise	10322 Aug 08 22:50	15° \cap 00'56			10325 Feb 27 15:53	0° \cap	
desc. node	10322 Aug 12 07:15	13° \cap 23'25			10325 Mar 23 21:31	0° X	
direct	10322 Aug 23 11:12	10° \cap 54'02			10325 Apr 17 03:45	0° \cap	
greatest brilliancy	10322 Sep 02 06:36	12° \cap 40'51	-4.8m		10325 May 11 13:52	0° X	
	10322 Sep 29 02:54	0° \cap		asc. node	10325 May 19 19:41	10° X 02'13	
morning max el	10322 Oct 11 18:14	11° \cap 33'45	45°59'46		10325 Jun 05 09:22	0° \cap	
	10322 Oct 29 21:45	0° $\underline{\cap}$			10325 Jun 30 23:57	0° \cap	
	10322 Nov 26 03:25	0° \cap			10325 Jul 28 09:34	0° $\underline{\cap}$	
asc. node	10322 Dec 03 05:48	8° \cap 07'08		evening max el	10325 Aug 02 23:25	5° $\underline{\cap}$ 39'20	46°24'32
	10322 Dec 22 00:26	0° X			10325 Aug 31 17:42	0° \cap	
	10323 Jan 16 03:32	0° X		desc. node	10325 Sep 08 17:52	4° \cap 22'17	
	10323 Feb 09 19:42	0° \approx		greatest brilliancy	10325 Sep 10 21:11	5° \cap 15'36	-4.8m
	10323 Mar 06 04:50	0° X		retrograde	10325 Sep 21 20:19	7° \cap 27'53	
desc. node	10323 Mar 24 22:33	23° X 14'13		evening set	10325 Oct 08 10:28	2° \cap 11'48	
	10323 Mar 30 08:56	0° \cap			10325 Oct 12 01:21	30° \cap $\underline{\cap}$	
morning set	10323 Apr 09 13:46	12° \cap 43'38		min. Earth dist.	10325 Oct 12 13:55	29° $\underline{\cap}$ 40'20	0.28679 AU
	10323 Apr 23 09:07	0° X		inferior conj	10325 Oct 13 07:22	29° $\underline{\cap}$ 13'00	-7°12'54
	10323 May 17 06:42	0° \cap		minimum elong	10325 Oct 12 21:50	29° $\underline{\cap}$ 27'56	7°11'06
max. Earth dist.	10323 May 19 11:56	2° \cap 47'17	1.71296 AU	morning rise	10325 Oct 17 09:30	26° $\underline{\cap}$ 42'13	
				direct	10325 Nov 03 15:08	21° $\underline{\cap}$ 06'17	
superior conj	10323 May 20 01:33	3° \cap 30'04	-1°27'45	greatest brilliancy	10325 Nov 13 09:02	22° $\underline{\cap}$ 48'59	-4.7m
minimum elong	10323 May 20 01:18	3° \cap 29'16	1°28'10		10325 Nov 27 06:33	0° \cap	
	10323 Jun 10 03:33	0° X		morning max el	10325 Dec 22 09:10	20° \cap 59'56	45°42'14
evening rise	10323 Jun 29 13:12	24° X 20'21		asc. node	10325 Dec 30 17:35	29° \cap 16'38	
	10323 Jul 04 01:44	0° \cap			10325 Dec 31 10:36	0° X	
asc. node	10323 Jul 15 17:27	14° \cap 33'37			10326 Jan 28 03:53	0° X	
	10323 Jul 28 03:00	0° \cap			10326 Feb 23 00:59	0° \approx	
	10323 Aug 21 08:50	0° $\underline{\cap}$			10326 Mar 20 01:18	0° X	
	10323 Sep 14 21:15	0° \cap			10326 Apr 13 13:48	0° \cap	
	10323 Oct 09 19:51	0° X		desc. node	10326 Apr 21 11:38	9° \cap 46'05	
	10323 Nov 04 10:53	0° X			10326 May 07 18:49	0° X	
desc. node	10323 Nov 04 13:07	0° X 06'27			10326 May 31 19:14	0° \cap	
	10323 Dec 01 06:15	0° \approx		morning set	10326 Jun 24 08:05	29° \cap 29'55	
evening max el	10323 Dec 26 15:23	26° \approx 07'38	45°55'39		10326 Jun 24 17:41	0° X	
	10323 Dec 30 17:32	0° X			10326 Jul 18 16:25	0° \cap	
greatest brilliancy	10324 Feb 03 20:38	24° X 41'44	-4.8m				
retrograde	10324 Feb 13 16:02	26° X 27'23		superior conj	10326 Aug 02 20:38	18° \cap 58'09	-0°22'39
asc. node	10324 Feb 25 13:38	23° X 38'47		minimum elong	10326 Aug 03 02:07	19° \cap 15'16	0°22'43
evening set	10324 Feb 28 06:00	22° X 18'15		max. Earth dist.	10326 Aug 05 17:22	22° \cap 32'37	1.71942 AU
inferior conj	10324 Mar 05 13:30	18° X 33'52	2°15'50		10326 Aug 11 16:53	0° \cap	

asc. node	10326 Aug 12 05:59	0° \mathbb{M} 40'49	greatest brilliancy	10329 Jan 23 14:37	0° \mathfrak{Z} 43'24	-4.8m
	10326 Sep 04 19:49	0° \mathfrak{L}	asc. node	10329 Jan 27 04:43	2° \mathfrak{Z} 16'42	
evening rise	10326 Sep 10 10:47	6° \mathfrak{L} 58'18		10329 Mar 03 07:31	0° \approx	
	10326 Sep 29 01:49	0° \mathbb{M}	morning max el	10329 Mar 03 08:50	0° \approx 03'15	46°13'06
	10326 Oct 23 12:05	0° \mathfrak{Z}		10329 Mar 31 10:22	0° \mathfrak{H}	
	10326 Nov 17 04:22	0° \mathfrak{Z}		10329 Apr 26 08:10	0° \mathfrak{Y}	
desc. node	10326 Dec 02 00:27	17° \mathfrak{Z} 51'07	desc. node	10329 May 19 00:34	27° \mathfrak{Y} 13'49	
	10326 Dec 12 04:40	0° \approx		10329 May 21 07:16	0° \mathfrak{B}	
	10327 Jan 06 15:23	0° \mathfrak{H}		10329 Jun 14 18:41	0° \mathbb{I}	
	10327 Feb 01 18:03	0° \mathfrak{Y}		10329 Jul 09 00:24	0° \mathfrak{G}	
	10327 Mar 01 07:29	0° \mathfrak{B}		10329 Aug 02 04:15	0° \mathfrak{L}	
evening max el	10327 Mar 08 19:30	7° \mathfrak{B} 36'59		10329 Aug 26 08:21	0° \mathbb{M}	
asc. node	10327 Mar 25 00:07	22° \mathfrak{B} 38'30	morning set	10329 Sep 05 00:11	11° \mathbb{M} 58'27	
	10327 Apr 03 10:04	0° \mathbb{I}	asc. node	10329 Sep 08 18:55	16° \mathbb{M} 39'35	
greatest brilliancy	10327 Apr 18 08:30	8° \mathbb{I} 09'08		10329 Sep 19 13:21	0° \mathfrak{L}	
retrograde	10327 Apr 27 23:09	9° \mathbb{I} 54'22				
evening set	10327 May 16 03:10	3° \mathbb{I} 38'22	superior conj	10329 Oct 12 19:10	28° \mathfrak{L} 45'34	1°10'28
inferior conj	10327 May 18 15:30	2° \mathbb{I} 06'17	minimum elong	10329 Oct 12 09:57	28° \mathfrak{L} 17'06	1°10'24
minimum elong	10327 May 18 14:34	2° \mathbb{I} 07'43		10329 Oct 13 19:14	0° \mathbb{M}	
min. Earth dist.	10327 May 18 17:56	2° \mathbb{I} 02'33	max. Earth dist.	10329 Oct 14 08:32	0° \mathbb{M} 41'06	1.72991 AU
morning rise	10327 May 21 01:57	0° \mathbb{I} 36'52		10329 Nov 07 02:16	0° \mathfrak{Z}	
	10327 May 22 02:35	30° \mathfrak{R} \mathfrak{B}	evening rise	10329 Nov 18 11:05	14° \mathfrak{Z} 00'27	
direct	10327 Jun 08 07:34	24° \mathfrak{B} 15'46		10329 Dec 01 11:15	0° \mathfrak{Z}	
greatest brilliancy	10327 Jun 18 02:54	26° \mathfrak{B} 04'32		10329 Dec 25 22:53	0° \approx	
	10327 Jun 26 10:33	0° \mathbb{I}	desc. node	10329 Dec 29 12:13	4° \approx 20'38	
desc. node	10327 Jul 14 22:15	13° \mathbb{I} 49'56		10330 Jan 19 13:19	0° \mathfrak{H}	
morning max el	10327 Jul 28 16:14	26° \mathbb{I} 48'32		10330 Feb 13 06:28	0° \mathfrak{Y}	
	10327 Jul 31 20:12	0° \mathfrak{G}		10330 Mar 10 03:41	0° \mathfrak{B}	
	10327 Aug 28 15:39	0° \mathfrak{L}		10330 Apr 04 10:12	0° \mathbb{I}	
	10327 Sep 23 19:11	0° \mathbb{M}	asc. node	10330 Apr 21 10:41	19° \mathbb{I} 39'56	
	10327 Oct 19 05:56	0° \mathfrak{L}		10330 Apr 30 15:44	0° \mathfrak{G}	
asc. node	10327 Nov 04 19:12	19° \mathfrak{L} 47'27	evening max el	10330 May 20 23:32	21° \mathfrak{G} 35'21	46°54'07
	10327 Nov 13 06:41	0° \mathbb{M}		10330 May 29 15:08	0° \mathfrak{L}	
	10327 Dec 08 00:07	0° \mathfrak{Z}	greatest brilliancy	10330 Jun 29 22:06	22° \mathfrak{L} 12'54	-4.9m
	10328 Jan 01 12:07	0° \mathfrak{Z}	retrograde	10330 Jul 10 08:52	24° \mathfrak{L} 15'06	
morning set	10328 Jan 24 15:16	28° \mathfrak{Z} 30'14	evening set	10330 Jul 25 11:01	19° \mathfrak{L} 45'35	
	10328 Jan 25 20:20	0° \approx	inferior conj	10330 Jul 31 04:41	16° \mathfrak{L} 21'08	2°49'46
	10328 Feb 19 01:47	0° \mathfrak{H}	minimum elong	10330 Jul 31 10:59	16° \mathfrak{L} 11'27	2°47'27
desc. node	10328 Feb 24 11:24	6° \mathfrak{H} 42'18	min. Earth dist.	10330 Jul 31 00:49	16° \mathfrak{L} 27'04	0.27270 AU
max. Earth dist.	10328 Feb 29 02:06	12° \mathfrak{H} 26'13	morning rise	10330 Aug 06 11:29	12° \mathfrak{L} 40'29	
			desc. node	10330 Aug 11 09:08	10° \mathfrak{L} 25'04	
superior conj	10328 Mar 03 01:07	16° \mathfrak{H} 07'00	direct	10330 Aug 21 00:45	8° \mathfrak{L} 33'16	
minimum elong	10328 Mar 02 20:47	15° \mathfrak{H} 53'31	greatest brilliancy	10330 Aug 30 19:36	10° \mathfrak{L} 19'41	-4.8m
	10328 Mar 14 04:42	0° \mathfrak{Y}		10330 Sep 29 08:14	0° \mathbb{M}	
	10328 Apr 07 05:18	0° \mathfrak{B}	morning max el	10330 Oct 09 08:09	9° \mathbb{M} 16'28	46°01'04
evening rise	10328 Apr 11 10:06	5° \mathfrak{B} 15'20		10330 Oct 29 15:04	0° \mathfrak{L}	
	10328 May 01 04:29	0° \mathbb{I}		10330 Nov 25 17:14	0° \mathbb{M}	
	10328 May 25 04:10	0° \mathfrak{G}	asc. node	10330 Dec 02 07:42	7° \mathbb{M} 34'19	
asc. node	10328 Jun 16 07:15	27° \mathfrak{G} 32'13		10330 Dec 21 12:40	0° \mathfrak{Z}	
	10328 Jun 18 06:58	0° \mathfrak{L}		10331 Jan 15 14:57	0° \mathfrak{Z}	
	10328 Jul 12 15:56	0° \mathbb{M}		10331 Feb 09 06:40	0° \approx	
	10328 Aug 06 11:15	0° \mathfrak{L}		10331 Mar 05 15:36	0° \mathfrak{H}	
	10328 Sep 01 00:53	0° \mathbb{M}	desc. node	10331 Mar 24 00:29	22° \mathfrak{H} 47'00	
	10328 Sep 28 03:51	0° \mathfrak{Z}		10331 Mar 29 19:36	0° \mathfrak{Y}	
desc. node	10328 Oct 06 04:26	8° \mathfrak{Z} 17'42	morning set	10331 Apr 07 01:25	10° \mathfrak{Y} 16'55	
evening max el	10328 Oct 12 20:02	14° \mathfrak{Z} 52'20		10331 Apr 22 19:46	0° \mathfrak{B}	
	10328 Oct 29 20:14	0° \mathfrak{Z}	max. Earth dist.	10331 May 16 15:47	29° \mathfrak{B} 55'05	1.71305 AU
greatest brilliancy	10328 Nov 20 21:28	13° \mathfrak{Z} 14'12		10331 May 16 17:21	0° \mathbb{I}	
retrograde	10328 Nov 30 18:59	15° \mathfrak{Z} 00'40				
evening set	10328 Dec 18 04:38	9° \mathfrak{Z} 16'01	superior conj	10331 May 17 12:51	1° \mathbb{I} 01'17	-1°27'37
inferior conj	10328 Dec 22 04:48	6° \mathfrak{Z} 47'53	minimum elong	10331 May 17 11:30	0° \mathbb{I} 57'01	1°28'02
minimum elong	10328 Dec 22 14:02	6° \mathfrak{Z} 33'24		10331 Jun 09 14:13	0° \mathfrak{G}	
min. Earth dist.	10328 Dec 22 17:56	6° \mathfrak{Z} 27'18	evening rise	10331 Jun 27 00:20	21° \mathfrak{G} 51'17	
morning rise	10328 Dec 26 23:17	3° \mathfrak{Z} 52'32		10331 Jul 03 12:27	0° \mathfrak{L}	
	10329 Jan 04 02:16	30° \mathfrak{R} \mathfrak{Z}	asc. node	10331 Jul 14 19:15	14° \mathfrak{L} 05'44	
direct	10329 Jan 12 15:41	28° \mathfrak{Z} 31'06		10331 Jul 27 13:49	0° \mathbb{M}	
	10329 Jan 21 13:17	0° \mathfrak{Z}		10331 Aug 20 19:50	0° \mathfrak{L}	

	10331 Sep 14 08:37	0°♌			10334 Apr 13 01:06	0°♑	
	10331 Oct 09 07:55	0°♊		desc. node	10334 Apr 20 13:41	9°♑17'43	
desc. node	10331 Nov 03 15:10	29°♊33'56			10334 May 07 05:49	0°♉	
	10331 Nov 04 00:16	0°♉			10334 May 31 06:04	0°♊	
	10331 Nov 30 22:30	0°♈		morning set	10334 Jun 21 20:14	27°♊03'48	
evening max el	10331 Dec 24 05:14	23°♈51'16	45°54'45		10334 Jun 24 04:26	0°♈	
	10331 Dec 30 18:39	0°♈			10334 Jul 18 03:05	0°♏	
greatest brilliancy	10332 Feb 01 11:24	22°♈25'13	-4.8m				
retrograde	10332 Feb 11 05:17	24°♈09'55		superior conj	10334 Jul 31 09:58	16°♏36'45	-0°26'13
asc. node	10332 Feb 24 15:33	20°♈37'46		minimum elong	10334 Jul 31 16:16	16°♏56'23	0°26'17
evening set	10332 Feb 25 19:53	20°♈00'53		max. Earth dist.	10334 Aug 03 04:09	20°♏03'18	1.71906 AU
inferior conj	10332 Mar 03 03:48	16°♈16'08	1°53'36	asc. node	10334 Aug 11 07:54	0°♐13'40	
minimum elong	10332 Mar 02 23:31	16°♈22'47	1°52'25		10334 Aug 11 03:31	0°♐	
min. Earth dist.	10332 Mar 03 10:35	16°♈05'36	0.27608 AU		10334 Sep 04 06:27	0°♎	
morning rise	10332 Mar 09 02:35	12°♈42'23		evening rise	10334 Sep 08 02:24	4°♎44'59	
direct	10332 Mar 24 03:32	8°♈15'17			10334 Sep 28 12:33	0°♌	
greatest brilliancy	10332 Apr 03 16:06	10°♈19'10	-4.9m		10334 Oct 22 23:01	0°♊	
	10332 May 02 04:08	0°♑			10334 Nov 16 15:42	0°♉	
morning max el	10332 May 13 12:20	10°♑53'34	46°54'08	desc. node	10334 Dec 01 02:21	17°♉21'53	
	10332 May 31 14:12	0°♉			10334 Dec 11 16:40	0°♈	
desc. node	10332 Jun 15 12:45	16°♉48'21			10335 Jan 06 04:33	0°♈	
	10332 Jun 26 21:56	0°♊			10335 Feb 01 09:23	0°♑	
	10332 Jul 22 03:47	0°♈			10335 Mar 01 04:02	0°♉	
	10332 Aug 15 22:57	0°♏		evening max el	10335 Mar 06 09:34	5°♉16'22	46°32'50
	10332 Sep 09 13:42	0°♐		asc. node	10335 Mar 24 02:15	21°♉32'07	
	10332 Oct 04 02:12	0°♎			10335 Apr 04 12:34	0°♊	
asc. node	10332 Oct 06 08:10	2°♎45'22		greatest brilliancy	10335 Apr 15 20:27	5°♊43'30	-4.9m
	10332 Oct 28 12:48	0°♌		retrograde	10335 Apr 25 12:41	7°♊29'59	
morning set	10332 Nov 13 14:40	19°♌47'07		evening set	10335 May 13 14:11	1°♊16'29	
	10332 Nov 21 21:39	0°♊			10335 May 15 16:27	30°♋♉	
	10332 Dec 16 05:26	0°♉		inferior conj	10335 May 16 04:27	29°♉41'33	9°12'00
max. Earth dist.	10332 Dec 19 14:38	4°♉10'30	1.73179 AU	minimum elong	10335 May 16 02:33	29°♉44'29	9°11'33
				min. Earth dist.	10335 May 16 06:00	29°♉39'10	0.27198 AU
superior conj	10332 Dec 20 05:03	4°♉54'56	1°14'03	morning rise	10335 May 18 14:54	28°♉12'17	
minimum elong	10332 Dec 20 13:33	5°♉21'09	1°14'19	direct	10335 Jun 05 21:07	21°♉50'54	
	10333 Jan 09 12:53	0°♈		greatest brilliancy	10335 Jun 15 15:16	23°♉39'13	-4.9m
desc. node	10333 Jan 26 00:30	20°♈20'50			10335 Jun 27 20:37	0°♊	
evening rise	10333 Jan 26 20:23	21°♈22'11		desc. node	10335 Jul 14 00:10	12°♊47'33	
	10333 Feb 02 20:07	0°♈		morning max el	10335 Jul 26 06:53	24°♊28'49	46°47'38
	10333 Feb 27 02:42	0°♑			10335 Jul 31 17:18	0°♈	
	10333 Mar 23 08:36	0°♉			10335 Aug 28 07:14	0°♏	
	10333 Apr 16 15:14	0°♊			10335 Sep 23 08:31	0°♐	
	10333 May 11 01:59	0°♈			10335 Oct 18 18:05	0°♎	
asc. node	10333 May 18 21:40	9°♈30'40		asc. node	10335 Nov 03 21:06	19°♎18'05	
	10333 Jun 04 22:31	0°♏			10335 Nov 12 18:09	0°♌	
	10333 Jun 30 15:04	0°♐			10335 Dec 07 11:10	0°♊	
	10333 Jul 28 05:47	0°♎			10335 Dec 31 22:55	0°♉	
evening max el	10333 Jul 31 13:33	3°♎20'54	46°25'56	morning set	10336 Jan 22 07:18	26°♉18'30	
	10333 Sep 02 02:50	0°♌			10336 Jan 25 07:02	0°♈	
desc. node	10333 Sep 07 19:55	2°♌45'41			10336 Feb 18 12:28	0°♈	
greatest brilliancy	10333 Sep 08 12:29	3°♌02'06	-4.8m	desc. node	10336 Feb 23 13:20	6°♈15'02	
retrograde	10333 Sep 19 11:54	5°♌15'22		max. Earth dist.	10336 Feb 26 17:43	10°♈12'15	1.72324 AU
evening set	10333 Oct 05 22:43	0°♌04'00					
	10333 Oct 06 01:29	30°♋♎		superior conj	10336 Feb 29 14:41	13°♈46'32	-0°14'40
min. Earth dist.	10333 Oct 10 05:06	27°♎28'45	0.28634 AU	minimum elong	10336 Feb 29 11:12	13°♈35'44	0°14'19
inferior conj	10333 Oct 10 22:54	27°♎00'55	-7°01'03	behind sun begin	10336 Feb 28 23:52	13°♈00'29	
minimum elong	10333 Oct 10 13:06	27°♎16'15	6°59'07	behind sun end	10336 Feb 29 22:33	14°♈11'00	
morning rise	10333 Oct 15 03:44	24°♎26'22			10336 Mar 13 15:28	0°♑	
direct	10333 Nov 01 05:44	18°♎54'41			10336 Apr 06 16:11	0°♉	
greatest brilliancy	10333 Nov 11 00:15	20°♎37'49	-4.7m	evening rise	10336 Apr 08 22:34	2°♉50'05	
	10333 Nov 28 01:32	0°♌			10336 Apr 30 15:29	0°♊	
morning max el	10333 Dec 19 23:54	18°♌46'42	45°42'02		10336 May 24 15:20	0°♈	
asc. node	10333 Dec 29 19:30	28°♌32'49		asc. node	10336 Jun 15 09:05	27°♈02'42	
	10333 Dec 31 05:25	0°♊			10336 Jun 17 18:22	0°♏	
	10334 Jan 27 18:17	0°♉			10336 Jul 12 03:45	0°♐	
	10334 Feb 22 13:39	0°♈			10336 Aug 05 23:52	0°♎	
	10334 Mar 19 13:05	0°♈			10336 Aug 31 15:03	0°♌	

	10336 Sep 27 21:49	0°♊			10339 Mar 29 06:38	0°♎	
desc. node	10336 Oct 05 06:27	7°♊32'32		morning set	10339 Apr 04 13:02	7°♎49'00	
evening max el	10336 Oct 10 12:14	12°♊42'22 45°51'17			10339 Apr 22 06:45	0°♏	
	10336 Oct 30 07:10	0°♐		max. Earth dist.	10339 May 13 18:34	26°♏58'34 1.71318 AU	
greatest brilliancy	10336 Nov 18 12:11	11°♐03'06 -4.7m					
retrograde	10336 Nov 28 10:48	12°♐50'06		superior conj	10339 May 15 00:09	28°♏31'28 -1°27'19	
evening set	10336 Dec 15 23:09	7°♐01'27		minimum elong	10339 May 14 21:43	28°♏23'51 1°27'43	
inferior conj	10336 Dec 19 20:45	4°♐36'48 -7°32'09			10339 May 16 04:20	0°♑	
minimum elong	10336 Dec 20 05:38	4°♐22'51 7°30'21			10339 Jun 09 01:14	0°♒	
min. Earth dist.	10336 Dec 20 08:48	4°♐17'53 0.28919 AU		evening rise	10339 Jun 24 11:26	19°♒21'00	
morning rise	10336 Dec 24 12:01	1°♐46'02			10339 Jul 02 23:33	0°♓	
	10336 Dec 27 16:55	30°♑♊		asc. node	10339 Jul 13 21:13	13°♓37'12	
direct	10337 Jan 10 08:25	26°♊20'05			10339 Jul 27 01:01	0°♑	
greatest brilliancy	10337 Jan 21 05:25	28°♊30'38 -4.8m			10339 Aug 20 07:11	0°♒	
	10337 Jan 24 16:31	0°♐			10339 Sep 13 20:18	0°♓	
asc. node	10337 Jan 26 06:40	0°♐47'28			10339 Oct 08 20:17	0°♊	
morning max el	10337 Mar 01 00:13	27°♐48'43 46°11'22		desc. node	10339 Nov 02 17:04	29°♊00'04	
	10337 Mar 03 04:54	0°♑			10339 Nov 03 14:02	0°♐	
	10337 Mar 31 01:55	0°♋			10339 Nov 30 15:22	0°♑	
	10337 Apr 25 21:37	0°♎		evening max el	10339 Dec 21 18:37	21°♑32'59 45°53'46	
desc. node	10337 May 18 02:23	26°♎41'21			10339 Dec 30 21:38	0°♋	
	10337 May 20 19:41	0°♏		greatest brilliancy	10340 Jan 30 01:53	20°♋07'16 -4.8m	
	10337 Jun 14 06:30	0°♑		retrograde	10340 Feb 08 18:53	21°♋51'35	
	10337 Jul 08 11:47	0°♒		evening set	10340 Feb 23 09:58	17°♋41'59	
	10337 Aug 01 15:20	0°♓		asc. node	10340 Feb 23 17:40	17°♋31'36	
	10337 Aug 25 19:12	0°♑		inferior conj	10340 Feb 29 18:07	13°♋57'15 1°31'12	
morning set	10337 Sep 02 15:41	9°♑44'23		minimum elong	10340 Feb 29 14:39	14°♋02'37 1°30'17	
asc. node	10337 Sep 07 20:56	16°♑12'29		min. Earth dist.	10340 Mar 01 01:59	13°♋45'01 0.27646 AU	
	10337 Sep 19 00:03	0°♒		morning rise	10340 Mar 06 18:41	10°♋21'00	
				direct	10340 Mar 21 17:43	5°♋55'29	
superior conj	10337 Oct 10 12:05	26°♒36'36 1°08'30		greatest brilliancy	10340 Apr 01 08:36	8°♋01'23 -4.9m	
minimum elong	10337 Oct 10 02:39	26°♒07'27 1°08'24			10340 May 02 07:35	0°♎	
max. Earth dist.	10337 Oct 12 04:56	28°♒42'53 1.72967 AU		morning max el	10340 May 11 02:11	8°♎31'12 46°53'19	
	10337 Oct 13 05:53	0°♓			10340 May 31 07:43	0°♏	
	10337 Nov 06 12:57	0°♊		desc. node	10340 Jun 14 14:43	16°♏09'18	
evening rise	10337 Nov 16 04:14	11°♊52'29			10340 Jun 26 12:25	0°♑	
	10337 Nov 30 22:03	0°♐			10340 Jul 21 16:50	0°♒	
	10337 Dec 25 09:57	0°♑			10340 Aug 15 11:09	0°♓	
desc. node	10337 Dec 28 14:02	3°♑52'18			10340 Sep 09 01:21	0°♑	
	10338 Jan 19 00:47	0°♋			10340 Oct 03 13:26	0°♒	
	10338 Feb 12 18:31	0°♎		asc. node	10340 Oct 05 10:03	2°♒16'47	
	10338 Mar 09 16:38	0°♏			10340 Oct 27 23:44	0°♓	
	10338 Apr 04 00:39	0°♑		morning set	10340 Nov 11 07:53	17°♓38'58	
asc. node	10338 Apr 20 12:38	18°♑59'37			10340 Nov 21 08:25	0°♊	
	10338 Apr 30 09:20	0°♒			10340 Dec 15 16:10	0°♐	
evening max el	10338 May 18 13:29	19°♒12'35 46°54'11					
	10338 May 29 18:52	0°♓		superior conj	10340 Dec 17 22:21	2°♐47'09 1°15'39	
greatest brilliancy	10338 Jun 27 13:45	19°♓52'01 -4.9m		minimum elong	10340 Dec 18 06:28	3°♐12'12 1°15'58	
retrograde	10338 Jul 07 22:21	21°♓52'09		max. Earth dist.	10340 Dec 17 10:16	2°♐09'53 1.73193 AU	
evening set	10338 Jul 23 02:55	17°♓20'18			10341 Jan 08 23:42	0°♑	
inferior conj	10338 Jul 28 18:08	13°♓59'09 3°12'07		evening rise	10341 Jan 24 12:16	19°♑09'31	
minimum elong	10338 Jul 29 01:11	13°♓48'19 3°09'36		desc. node	10341 Jan 25 02:31	19°♑53'27	
min. Earth dist.	10338 Jul 28 15:25	14°♓03'19 0.27239 AU			10341 Feb 02 07:05	0°♋	
morning rise	10338 Aug 03 23:54	10°♓19'31			10341 Feb 26 13:54	0°♎	
desc. node	10338 Aug 10 11:10	7°♓30'42			10341 Mar 22 20:07	0°♏	
direct	10338 Aug 18 13:49	6°♓11'44			10341 Apr 16 03:11	0°♑	
greatest brilliancy	10338 Aug 28 09:07	7°♓58'16 -4.8m			10341 May 10 14:34	0°♒	
	10338 Sep 29 11:56	0°♑		asc. node	10341 May 17 23:32	8°♒57'28	
morning max el	10338 Oct 06 21:10	6°♑56'16 46°02'31			10341 Jun 04 12:09	0°♓	
	10338 Oct 29 08:12	0°♒			10341 Jun 30 06:48	0°♑	
	10338 Nov 25 07:08	0°♓			10341 Jul 28 03:07	0°♒	
asc. node	10338 Dec 01 09:35	7°♓00'58		evening max el	10341 Jul 29 04:13	1°♒02'46 46°27'26	
	10338 Dec 21 01:06	0°♊			10341 Sep 04 06:02	0°♓	
	10339 Jan 15 02:38	0°♐		greatest brilliancy	10341 Sep 06 03:26	0°♓47'06 -4.8m	
	10339 Feb 08 17:59	0°♑		desc. node	10341 Sep 06 21:59	1°♓04'32	
	10339 Mar 05 02:43	0°♋		retrograde	10341 Sep 17 04:04	3°♓01'51	
desc. node	10339 Mar 23 02:28	22°♋18'50			10341 Sep 29 12:16	30°♑♒	

evening set	10341 Oct 03 11:05	27° Ω 54'58		superior conj	10344 Feb 27 04:54	11° Υ 28'12	-0°11'06
min. Earth dist.	10341 Oct 07 20:00	25° Ω 16'26	0.28585 AU	minimum elong	10344 Feb 27 02:18	11° Υ 20'04	0°10'46
inferior conj	10341 Oct 08 14:25	24° Ω 47'43	-6°48'36	behind sun begin	10344 Feb 26 07:53	10° Υ 22'54	
minimum elong	10341 Oct 08 04:23	25° Ω 03'21	6°46'32	behind sun end	10344 Feb 27 20:42	12° Υ 17'16	
morning rise	10341 Oct 12 22:01	22° Ω 09'32			10344 Mar 13 02:15	0° Υ	
direct	10341 Oct 29 20:41	16° Ω 42'06		evening rise	10344 Apr 06 11:31	0° Υ 26'22	
greatest brilliancy	10341 Nov 08 15:00	18° Ω 25'22	-4.7m		10344 Apr 06 03:05	0° Υ	
	10341 Nov 28 15:58	0° \mathbb{M}			10344 Apr 30 02:32	0° \mathbb{I}	
morning max el	10341 Dec 17 15:30	16° \mathbb{M} 35'00	45°42'01		10344 May 24 02:35	0° \mathcal{O}	
asc. node	10341 Dec 28 21:28	27° \mathbb{M} 49'06		asc. node	10344 Jun 14 11:04	26° \mathcal{O} 33'10	
	10341 Dec 30 23:56	0° \mathcal{A}			10344 Jun 17 05:55	0° Ω	
	10342 Jan 27 08:42	0° \mathcal{B}			10344 Jul 11 15:47	0° \mathbb{M}	
	10342 Feb 22 02:26	0° \approx			10344 Aug 05 12:43	0° Ω	
	10342 Mar 19 01:05	0° Υ			10344 Aug 31 05:33	0° \mathbb{M}	
	10342 Apr 12 12:41	0° Υ			10344 Sep 27 16:23	0° \mathcal{A}	
desc. node	10342 Apr 19 15:29	8° Υ 47'43		desc. node	10344 Oct 04 08:21	6° \mathcal{A} 46'00	
	10342 May 06 17:10	0° Υ		evening max el	10344 Oct 08 03:42	10° \mathcal{A} 30'10	45°51'58
	10342 May 30 17:16	0° \mathbb{I}			10344 Oct 30 22:02	0° \mathcal{B}	
morning set	10342 Jun 19 07:59	24° \mathbb{I} 35'23		greatest brilliancy	10344 Nov 16 03:34	8° \mathcal{B} 52'34	-4.7m
	10342 Jun 23 15:30	0° \mathcal{O}		retrograde	10344 Nov 26 02:12	10° \mathcal{B} 39'29	
	10342 Jul 17 14:04	0° Ω		evening set	10344 Dec 13 17:38	4° \mathcal{B} 47'05	
				inferior conj	10344 Dec 17 12:45	2° \mathcal{B} 25'54	-7°41'54
superior conj	10342 Jul 28 22:53	14° Ω 13'02	-0°29'47	minimum elong	10344 Dec 17 21:12	2° \mathcal{B} 12'35	7°40'15
minimum elong	10342 Jul 29 05:58	14° Ω 35'09	0°29'49	min. Earth dist.	10344 Dec 17 23:56	2° \mathcal{B} 08'18	0.28944 AU
max. Earth dist.	10342 Jul 31 16:52	17° Ω 39'05	1.71869 AU		10344 Dec 21 11:00	30° \mathbb{R} \mathcal{A}	
asc. node	10342 Aug 10 09:52	29° Ω 45'47		morning rise	10344 Dec 22 00:41	29° \mathcal{A} 39'42	
	10342 Aug 10 14:25	0° \mathbb{M}		direct	10345 Jan 08 00:42	24° \mathcal{A} 09'16	
	10342 Sep 03 17:22	0° Ω		greatest brilliancy	10345 Jan 18 20:26	26° \mathcal{A} 18'12	-4.8m
evening rise	10342 Sep 05 17:50	2° Ω 30'14		asc. node	10345 Jan 25 08:44	29° \mathcal{A} 21'21	
	10342 Sep 27 23:33	0° \mathbb{M}			10345 Jan 26 12:07	0° \mathcal{B}	
	10342 Oct 22 10:13	0° \mathcal{A}		morning max el	10345 Feb 26 14:51	25° \mathcal{B} 32'38	46°09'54
	10342 Nov 16 03:16	0° \mathcal{B}			10345 Mar 03 01:25	0° \approx	
desc. node	10342 Nov 30 04:17	16° \mathcal{B} 52'03			10345 Mar 30 17:05	0° Υ	
	10342 Dec 11 04:54	0° \approx			10345 Apr 25 10:48	0° Υ	
	10343 Jan 05 17:57	0° Υ		desc. node	10345 May 17 04:20	26° Υ 09'56	
	10343 Feb 01 01:05	0° Υ			10345 May 20 07:54	0° Υ	
	10343 Mar 01 01:28	0° Υ			10345 Jun 13 18:09	0° \mathbb{I}	
evening max el	10343 Mar 04 00:05	2° \mathcal{B} 56'34	46°31'21		10345 Jul 07 23:05	0° \mathcal{O}	
asc. node	10343 Mar 23 04:07	20° \mathcal{B} 22'42			10345 Aug 01 02:23	0° Ω	
	10343 Apr 06 02:53	0° \mathbb{I}			10345 Aug 25 06:04	0° \mathbb{M}	
greatest brilliancy	10343 Apr 13 08:14	3° \mathbb{I} 16'59	-4.9m	morning set	10345 Aug 31 06:37	7° \mathbb{M} 28'21	
retrograde	10343 Apr 23 02:03	5° \mathbb{I} 04'17		asc. node	10345 Sep 06 22:48	15° \mathbb{M} 44'55	
	10343 May 09 03:56	30° \mathbb{R} \mathcal{B}			10345 Sep 18 10:46	0° Ω	
evening set	10343 May 11 00:29	28° \mathcal{B} 54'30					
inferior conj	10343 May 13 17:17	27° \mathcal{B} 15'37	9°09'21	superior conj	10345 Oct 08 04:29	24° Ω 26'03	1°06'25
minimum elong	10343 May 13 14:24	27° \mathcal{B} 20'02	9°08'52	minimum elong	10345 Oct 07 18:53	23° Ω 56'21	1°06'16
min. Earth dist.	10343 May 13 17:54	27° \mathcal{B} 14'40	0.27207 AU	max. Earth dist.	10345 Oct 09 22:57	26° Ω 37'21	1.72937 AU
morning rise	10343 May 16 04:20	25° \mathcal{B} 45'25			10345 Oct 12 16:30	0° \mathbb{M}	
direct	10343 Jun 03 10:42	19° \mathcal{B} 24'57			10345 Nov 05 23:34	0° \mathcal{A}	
greatest brilliancy	10343 Jun 13 03:24	21° \mathcal{B} 12'16	-4.9m	evening rise	10345 Nov 13 21:03	9° \mathcal{A} 43'40	
	10343 Jun 28 21:32	0° \mathbb{I}			10345 Nov 30 08:47	0° \mathcal{B}	
desc. node	10343 Jul 13 02:12	11° \mathbb{I} 45'47			10345 Dec 24 20:56	0° \approx	
morning max el	10343 Jul 23 21:03	22° \mathbb{I} 06'46	46°48'46	desc. node	10345 Dec 27 16:06	3° \approx 24'55	
	10343 Jul 31 14:04	0° \mathcal{O}			10346 Jan 18 12:10	0° Υ	
	10343 Aug 27 22:52	0° Ω			10346 Feb 12 06:28	0° Υ	
	10343 Sep 22 21:58	0° \mathbb{M}			10346 Mar 09 05:26	0° Υ	
	10343 Oct 18 06:21	0° Ω			10346 Apr 03 14:58	0° \mathbb{I}	
asc. node	10343 Nov 02 22:55	18° Ω 48'04		asc. node	10346 Apr 19 14:35	18° \mathbb{I} 19'50	
	10343 Nov 12 05:43	0° \mathbb{M}			10346 Apr 30 02:57	0° \mathcal{O}	
	10343 Dec 06 22:18	0° \mathcal{A}		evening max el	10346 May 16 02:23	16° \mathcal{O} 48'10	46°54'10
	10343 Dec 31 09:48	0° \mathcal{B}			10346 May 29 23:59	0° Ω	
morning set	10344 Jan 19 23:49	24° \mathcal{B} 08'06		greatest brilliancy	10346 Jun 25 05:22	17° Ω 31'56	-4.9m
	10344 Jan 24 17:47	0° \approx		retrograde	10346 Jul 05 11:29	19° Ω 30'10	
	10344 Feb 17 23:12	0° Υ		evening set	10346 Jul 20 18:57	14° Ω 55'22	
desc. node	10344 Feb 22 15:18	5° Υ 47'50		inferior conj	10346 Jul 26 07:38	11° Ω 37'53	3°34'08
max. Earth dist.	10344 Feb 24 08:40	7° Υ 56'14	1.72362 AU	minimum elong	10346 Jul 26 15:22	11° Ω 25'59	3°31'27
				min. Earth dist.	10346 Jul 26 06:13	11° Ω 40'05	0.27220 AU

morning rise	10346 Aug 01 12:08	7°Ω59'37			10349 Feb 26 00:45	0°Υ	
desc. node	10346 Aug 09 13:12	4°Ω42'11			10349 Mar 22 07:17	0°Ϡ	
direct	10346 Aug 16 02:35	3°Ω50'34			10349 Apr 15 14:47	0°Π	
greatest brilliancy	10346 Aug 25 23:13	5°Ω37'55	-4.8m		10349 May 10 02:48	0°⊖	
	10346 Sep 29 13:56	0°൬		asc. node	10349 May 17 01:34	8°⊖25'50	
morning max el	10346 Oct 04 10:12	4°൬36'11	46°03'57		10349 Jun 04 01:27	0°Ω	
	10346 Oct 29 00:53	0°♐			10349 Jun 29 22:15	0°൬	
	10346 Nov 24 20:45	0°♌		evening max el	10349 Jul 26 19:49	28°൬48'36	46°29'00
asc. node	10346 Nov 30 11:37	6°♌28'36			10349 Jul 28 00:35	0°♐	
	10346 Dec 20 13:18	0°♊		greatest brilliancy	10349 Sep 03 18:10	28°♐33'38	-4.8m
	10347 Jan 14 14:05	0°♊		desc. node	10349 Sep 05 23:50	29°♐21'18	
	10347 Feb 08 05:02	0°♋			10349 Sep 08 06:24	0°♌	
	10347 Mar 04 13:34	0°♋		retrograde	10349 Sep 14 20:37	0°♌49'55	
desc. node	10347 Mar 22 04:16	21°♋50'59			10349 Sep 21 06:07	30°♌♐	
	10347 Mar 28 17:22	0°Υ		evening set	10349 Sep 30 23:38	25°♐47'27	
morning set	10347 Apr 02 00:56	5°Υ22'54		min. Earth dist.	10349 Oct 05 10:43	23°♐05'58	0.28539 AU
	10347 Apr 21 17:25	0°Ϡ		inferior conj	10349 Oct 06 05:57	22°♐36'01	-6°35'28
max. Earth dist.	10347 May 10 23:59	24°Ϡ11'24	1.71330 AU	minimum elong	10349 Oct 05 19:48	22°♐51'49	6°33'17
				morning rise	10349 Oct 10 16:24	19°♐54'06	
superior conj	10347 May 12 11:50	26°Ϡ04'00	-1°26'51	direct	10349 Oct 27 12:11	14°♐31'06	
minimum elong	10347 May 12 08:22	25°Ϡ53'06	1°27'13	greatest brilliancy	10349 Nov 06 05:17	16°♐13'47	-4.7m
	10347 May 15 14:58	0°Π			10349 Nov 29 02:04	0°♌	
	10347 Jun 08 11:53	0°⊖		morning max el	10349 Dec 15 07:28	14°♌25'23	45°41'46
evening rise	10347 Jun 21 22:55	16°⊖53'13		asc. node	10349 Dec 27 23:29	27°♌07'05	
	10347 Jul 02 10:15	0°Ω			10349 Dec 30 17:38	0°♊	
asc. node	10347 Jul 12 23:13	13°Ω09'57			10350 Jan 26 22:40	0°♊	
	10347 Jul 26 11:50	0°൬			10350 Feb 21 14:50	0°♋	
	10347 Aug 19 18:14	0°♐			10350 Mar 18 12:42	0°♋	
	10347 Sep 13 07:45	0°♌			10350 Apr 11 23:52	0°Υ	
	10347 Oct 08 08:30	0°♊		desc. node	10350 Apr 18 17:26	8°Υ19'19	
desc. node	10347 Nov 01 19:03	28°♊26'48			10350 May 06 04:07	0°Ϡ	
	10347 Nov 03 03:44	0°♊			10350 May 30 04:04	0°Π	
	10347 Nov 30 08:23	0°♋		morning set	10350 Jun 16 19:45	22°Π08'08	
evening max el	10347 Dec 19 08:21	19°♋16'26	45°53'02		10350 Jun 23 02:12	0°⊖	
	10347 Dec 31 02:04	0°♋			10350 Jul 17 00:39	0°Ω	
greatest brilliancy	10348 Jan 27 15:46	17°♋49'35	-4.8m				
retrograde	10348 Feb 06 08:59	19°♋34'10		superior conj	10350 Jul 26 11:54	11°Ω50'41	-0°33'17
evening set	10348 Feb 21 00:11	15°♋23'37		minimum elong	10350 Jul 26 19:44	12°Ω15'08	0°33'19
asc. node	10348 Feb 22 19:34	14°♋23'19		max. Earth dist.	10350 Jul 29 07:04	15°Ω20'32	1.71828 AU
inferior conj	10348 Feb 27 08:19	11°♋39'05	1°08'42	asc. node	10350 Aug 09 11:43	29°Ω18'48	
minimum elong	10348 Feb 27 05:42	11°♋43'09	1°08'04		10350 Aug 10 00:56	0°൬	
min. Earth dist.	10348 Feb 27 17:00	11°♋25'37	0.27684 AU	evening rise	10350 Sep 03 09:26	0°♐17'14	
morning rise	10348 Mar 04 10:32	8°♋00'47			10350 Sep 03 03:52	0°♐	
direct	10348 Mar 19 08:10	3°♋36'29			10350 Sep 27 10:08	0°♌	
greatest brilliancy	10348 Mar 30 00:34	5°♋44'03	-4.9m		10350 Oct 21 21:02	0°♊	
	10348 May 02 09:05	0°Υ			10350 Nov 15 14:30	0°♊	
morning max el	10348 May 08 17:07	6°Υ12'47	46°52'36	desc. node	10350 Nov 29 06:19	16°♊23'28	
	10348 May 31 00:26	0°Ϡ			10350 Dec 10 16:53	0°♋	
desc. node	10348 Jun 13 16:43	15°Ϡ32'01			10351 Jan 05 07:12	0°♋	
	10348 Jun 26 02:16	0°Π			10351 Jan 31 16:49	0°Υ	
	10348 Jul 21 05:19	0°⊖			10351 Feb 28 23:29	0°Ϡ	
	10348 Aug 14 22:50	0°Ω		evening max el	10351 Mar 01 14:36	0°Ϡ37'28	46°29'55
	10348 Sep 08 12:29	0°൬		asc. node	10351 Mar 22 06:07	19°Ϡ12'18	
	10348 Oct 03 00:13	0°♐			10351 Apr 08 14:31	0°Π	
asc. node	10348 Oct 04 11:53	1°♐49'24		greatest brilliancy	10351 Apr 10 20:42	0°Π52'10	-4.9m
	10348 Oct 27 10:17	0°♌		retrograde	10351 Apr 20 15:05	2°Π39'24	
morning set	10348 Nov 09 00:49	15°♌31'01			10351 May 02 01:26	30°♌♐	
	10348 Nov 20 18:51	0°♊		evening set	10351 May 08 10:28	26°♌34'19	
	10348 Dec 15 02:35	0°♊		inferior conj	10351 May 11 06:10	24°♌50'49	9°05'51
				minimum elong	10351 May 11 02:21	24°♌56'42	9°05'16
superior conj	10348 Dec 15 15:17	0°♊39'10	1°17'11	min. Earth dist.	10351 May 11 06:09	24°♌50'51	0.27211 AU
minimum elong	10348 Dec 15 22:59	1°♊02'53	1°17'31	morning rise	10351 May 13 18:16	23°♌18'51	
max. Earth dist.	10348 Dec 15 06:32	0°♊12'10	1.73205 AU	direct	10351 Jun 01 00:06	17°♌00'14	
	10349 Jan 08 10:11	0°♋		greatest brilliancy	10351 Jun 10 15:53	18°♌46'38	-4.9m
evening rise	10349 Jan 22 03:49	16°♋56'52			10351 Jun 29 15:24	0°Π	
desc. node	10349 Jan 24 04:24	19°♋26'42		desc. node	10351 Jul 12 04:13	10°Π46'24	
	10349 Feb 01 17:43	0°♋		morning max el	10351 Jul 21 10:23	19°Π43'31	46°49'50

	10351 Jul 31 09:48	0°☿			10354 Jan 17 23:32	0°♄		
	10351 Aug 27 13:55	0°♁			10354 Feb 11 18:28	0°♅		
	10351 Sep 22 10:58	0°♆			10354 Mar 08 18:24	0°♂		
	10351 Oct 17 18:14	0°♂			10354 Apr 03 05:37	0°♄		
asc. node	10351 Nov 02 00:59	18°♂19'58		asc. node	10354 Apr 18 16:38	17°♄39'17		
	10351 Nov 11 16:55	0°♆			10354 Apr 29 21:16	0°☿		
	10351 Dec 06 09:06	0°♄		evening max el	10354 May 13 14:45	14°☿21'42	46°54'12	
	10351 Dec 30 20:24	0°♂			10354 May 30 07:43	0°♁		
morning set	10352 Jan 17 16:16	21°♂58'12		greatest brilliancy	10354 Jun 22 20:44	15°♁10'29	-4.9m	
	10352 Jan 24 04:19	0°♄		retrograde	10354 Jul 03 00:46	17°♁07'21		
	10352 Feb 17 09:46	0°♄		evening set	10354 Jul 18 10:58	12°♁29'01		
desc. node	10352 Feb 21 17:09	5°♄20'44		inferior conj	10354 Jul 23 20:59	9°♁15'37	3°55'57	
max. Earth dist.	10352 Feb 21 21:32	5°♄34'19	1.72404 AU	minimum elong	10354 Jul 24 05:22	9°♁02'44	3°53'04	
				min. Earth dist.	10354 Jul 23 20:49	9°♁15'53	0.27200 AU	
superior conj	10352 Feb 24 18:58	9°♄09'53	-0°07'29	morning rise	10354 Jul 30 00:00	5°♁39'17		
minimum elong	10352 Feb 24 17:14	9°♄04'29	0°07'11	desc. node	10354 Aug 08 15:06	1°♁58'15		
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evening rise	10352 Apr 04 00:07	28°♅02'08		morning max el	10354 Oct 01 23:57	2°♆17'24	46°05'31	
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asc. node	10352 Jun 13 13:04	26°☿04'11			10354 Dec 20 01:30	0°♄		
	10352 Jun 16 17:18	0°♁			10355 Jan 14 01:34	0°♂		
	10352 Jul 11 03:40	0°♆			10355 Feb 07 16:09	0°♄		
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	10352 Aug 30 19:59	0°♆		desc. node	10355 Mar 21 06:15	21°♄23'22		
	10352 Sep 27 11:09	0°♄			10355 Mar 28 04:14	0°♅		
desc. node	10352 Oct 03 10:26	6°♄00'00		morning set	10355 Mar 30 13:04	2°♅57'08		
evening max el	10352 Oct 05 18:28	8°♄16'58	45°52'45		10355 Apr 21 04:17	0°♂		
	10352 Oct 31 17:27	0°♂		max. Earth dist.	10355 May 08 07:42	21°♂30'37	1.71352 AU	
greatest brilliancy	10352 Nov 13 19:24	6°♂43'35	-4.7m					
retrograde	10352 Nov 23 17:32	8°♂30'20		superior conj	10355 May 09 23:15	23°♂34'50	-1°26'12	
evening set	10352 Dec 11 12:10	2°♂34'14		minimum elong	10355 May 09 18:44	23°♂20'41	1°26'32	
inferior conj	10352 Dec 15 04:58	0°♂16'26	-7°50'52		10355 May 15 01:52	0°♄		
minimum elong	10352 Dec 15 12:57	0°♂03'50	7°49'20		10355 Jun 07 22:50	0°☿		
min. Earth dist.	10352 Dec 15 15:31	29°♄59'47	0.28971 AU	evening rise	10355 Jun 19 09:55	14°☿22'53		
	10352 Dec 15 15:23	30°♄♄			10355 Jul 01 21:16	0°♁		
morning rise	10352 Dec 19 13:37	27°♄34'45		asc. node	10355 Jul 12 01:01	12°♁41'09		
direct	10353 Jan 05 16:44	21°♄59'41			10355 Jul 25 22:57	0°♆		
greatest brilliancy	10353 Jan 16 12:06	24°♄07'36	-4.8m		10355 Aug 19 05:33	0°♂		
asc. node	10353 Jan 24 10:39	27°♄58'39			10355 Sep 12 19:30	0°♆		
	10353 Jan 27 17:16	0°♂			10355 Oct 07 21:02	0°♄		
morning max el	10353 Feb 24 05:09	23°♂16'02	46°08'14	desc. node	10355 Oct 31 21:06	27°♄52'52		
	10353 Mar 02 21:09	0°♄			10355 Nov 02 17:49	0°♂		
	10353 Mar 30 08:02	0°♄			10355 Nov 30 01:59	0°♄		
	10353 Apr 24 23:55	0°♅		evening max el	10355 Dec 16 23:19	17°♄02'38	45°52'25	
desc. node	10353 May 16 06:24	25°♅38'48			10355 Dec 31 08:42	0°♄		
	10353 May 19 20:05	0°♂		greatest brilliancy	10356 Jan 25 05:32	15°♄32'06	-4.8m	
	10353 Jun 13 05:46	0°♄		retrograde	10356 Feb 03 23:43	17°♄17'13		
	10353 Jul 07 10:19	0°☿		evening set	10356 Feb 18 14:58	13°♄05'38		
	10353 Jul 31 13:21	0°♁		asc. node	10356 Feb 21 21:31	11°♄13'31		
	10353 Aug 24 16:51	0°♆		inferior conj	10356 Feb 24 22:48	9°♄21'22	0°46'16	
morning set	10353 Aug 28 21:29	5°♆12'18		minimum elong	10356 Feb 24 21:02	9°♄24'07	0°45'55	
asc. node	10353 Sep 06 00:39	15°♆17'31		min. Earth dist.	10356 Feb 25 07:58	9°♄07'11	0.27722 AU	
	10353 Sep 17 21:25	0°♂		morning rise	10356 Mar 02 02:30	5°♄41'18		
				direct	10356 Mar 16 23:21	1°♄18'08		
superior conj	10353 Oct 05 21:05	22°♂16'14	1°04'13	greatest brilliancy	10356 Mar 27 16:09	3°♄26'29	-4.8m	
minimum elong	10353 Oct 05 11:20	21°♂46'06	1°04'02		10356 May 02 09:28	0°♅		
max. Earth dist.	10353 Oct 07 15:05	24°♂26'08	1.72906 AU	morning max el	10356 May 06 08:52	3°♅56'04	46°51'31	
	10353 Oct 12 03:04	0°♆			10356 May 30 17:06	0°♂		
	10353 Nov 05 10:08	0°♄		desc. node	10356 Jun 12 18:38	14°♂53'53		
evening rise	10353 Nov 11 14:13	7°♄36'04			10356 Jun 25 16:22	0°♄		
	10353 Nov 29 19:28	0°♂			10356 Jul 20 18:09	0°☿		
	10353 Dec 24 07:53	0°♄			10356 Aug 14 10:54	0°♁		
desc. node	10353 Dec 26 18:01	2°♄57'20			10356 Sep 08 00:01	0°♆		

	10356 Oct 02 11:20	0°♄	retrograde	10359 Apr 18 03:46	0°♄14'20	
asc. node	10356 Oct 03 13:55	1°♄21'33		10359 Apr 21 14:06	30°♄8	
	10356 Oct 26 21:09	0°♄	evening set	10359 May 05 20:13	24°♄14'47	
morning set	10356 Nov 06 17:47	13°♄22'07	inferior conj	10359 May 08 19:19	22°♄26'02	9°01'14
	10356 Nov 20 05:37	0°♄	minimum elong	10359 May 08 14:35	22°♄33'20	9°00'34
			min. Earth dist.	10359 May 08 19:03	22°♄26'26	0.27213 AU
superior conj	10356 Dec 13 08:25	28°♄30'47 1°18'36	morning rise	10359 May 11 08:59	20°♄51'29	
minimum elong	10356 Dec 13 15:37	28°♄53'01 1°18'56	direct	10359 May 29 13:12	14°♄35'26	
max. Earth dist.	10356 Dec 13 03:47	28°♄16'30 1.73214 AU	greatest brilliancy	10359 Jun 08 05:09	16°♄21'34	-4.9m
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desc. node	10357 Jan 23 06:16	18°♄58'53		10359 Jul 31 05:10	0°♄	
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	10357 May 09 15:25	0°♄		10359 Nov 11 04:30	0°♄	
asc. node	10357 May 16 03:32	7°♄52'54		10359 Dec 05 20:16	0°♄	
	10357 Jun 03 15:15	0°♄		10359 Dec 30 07:20	0°♄	
	10357 Jun 29 14:27	0°♄	morning set	10360 Jan 15 08:38	19°♄47'05	
evening max el	10357 Jul 24 12:06	26°♄34'24 46°30'21		10360 Jan 23 15:09	0°♄	
	10357 Jul 27 23:38	0°♄		10360 Feb 16 20:37	0°♄	
greatest brilliancy	10357 Sep 01 09:16	26°♄18'27 -4.8m	max. Earth dist.	10360 Feb 19 11:36	3°♄15'23	1.72447 AU
desc. node	10357 Sep 05 01:55	27°♄32'12	desc. node	10360 Feb 20 19:06	4°♄53'06	
retrograde	10357 Sep 12 12:54	28°♄35'23				
evening set	10357 Sep 28 12:06	23°♄37'40	superior conj	10360 Feb 22 09:08	6°♄51'07	-0°03'53
min. Earth dist.	10357 Oct 03 01:19	20°♄53'05 0.28486 AU	minimum elong	10360 Feb 22 08:16	6°♄48'26	0°03'37
inferior conj	10357 Oct 03 21:16	20°♄22'03 -6°21'33	behind sun begin	10360 Feb 21 08:26	5°♄34'27	
minimum elong	10357 Oct 03 11:03	20°♄37'57 6°19'17	behind sun end	10360 Feb 23 08:06	8°♄02'25	
morning rise	10357 Oct 08 10:31	17°♄36'16		10360 Mar 11 23:51	0°♄	
direct	10357 Oct 25 03:39	12°♄18'08	evening rise	10360 Apr 01 12:59	25°♄37'54	
greatest brilliancy	10357 Nov 03 18:53	13°♄59'34 -4.7m		10360 Apr 05 00:53	0°♄	
	10357 Nov 29 10:03	0°♄		10360 Apr 29 00:37	0°♄	
morning max el	10357 Dec 12 22:55	12°♄13'15 45°41'39		10360 May 23 01:02	0°♄	
asc. node	10357 Dec 27 01:24	26°♄24'12	asc. node	10360 Jun 12 14:55	25°♄33'58	
	10357 Dec 30 11:21	0°♄		10360 Jun 16 04:58	0°♄	
	10358 Jan 26 12:50	0°♄		10360 Jul 10 15:49	0°♄	
	10358 Feb 21 03:31	0°♄		10360 Aug 04 14:30	0°♄	
	10358 Mar 18 00:37	0°♄		10360 Aug 30 10:52	0°♄	
	10358 Apr 11 11:21	0°♄		10360 Sep 27 06:51	0°♄	
desc. node	10358 Apr 17 19:26	7°♄50'11	desc. node	10360 Oct 02 12:26	5°♄12'04	
	10358 May 05 15:21	0°♄	evening max el	10360 Oct 03 08:40	6°♄01'19	45°53'26
	10358 May 29 15:10	0°♄		10360 Nov 01 21:03	0°♄	
morning set	10358 Jun 14 07:46	19°♄40'47	greatest brilliancy	10360 Nov 11 10:57	4°♄32'56	-4.7m
	10358 Jun 22 13:11	0°♄	retrograde	10360 Nov 21 08:54	6°♄20'01	
	10358 Jul 16 11:35	0°♄	evening set	10360 Dec 09 06:27	0°♄20'09	
				10360 Dec 09 19:44	30°♄♄	
superior conj	10358 Jul 24 00:53	9°♄27'02 -0°36'44	inferior conj	10360 Dec 12 21:05	28°♄05'43	-7°59'03
minimum elong	10358 Jul 24 09:23	9°♄53'37 0°36'45	minimum elong	10360 Dec 13 04:34	27°♄53'55	7°57'41
max. Earth dist.	10358 Jul 26 21:43	13°♄02'10 1.71793 AU	min. Earth dist.	10360 Dec 13 07:10	27°♄49'49	0.28997 AU
asc. node	10358 Aug 08 13:39	28°♄50'48	morning rise	10360 Dec 17 02:33	25°♄28'41	
	10358 Aug 09 11:51	0°♄	direct	10361 Jan 03 08:21	19°♄48'45	
evening rise	10358 Sep 01 00:41	28°♄01'42	greatest brilliancy	10361 Jan 14 04:10	21°♄56'29	-4.8m
	10358 Sep 02 14:49	0°♄	asc. node	10361 Jan 23 12:37	26°♄37'36	
	10358 Sep 26 21:12	0°♄		10361 Jan 28 14:48	0°♄	
	10358 Oct 21 08:18	0°♄	morning max el	10361 Feb 21 19:43	20°♄59'25	46°06'47
	10358 Nov 15 02:11	0°♄		10361 Mar 02 16:35	0°♄	
desc. node	10358 Nov 28 08:13	15°♄53'09		10361 Mar 29 22:59	0°♄	
	10358 Dec 10 05:18	0°♄		10361 Apr 24 13:06	0°♄	
	10359 Jan 04 20:58	0°♄	desc. node	10361 May 15 08:11	25°♄06'34	
	10359 Jan 31 09:11	0°♄		10361 May 19 08:21	0°♄	
evening max el	10359 Feb 27 04:42	28°♄16'29 46°28'28		10361 Jun 12 17:29	0°♄	
	10359 Feb 28 22:50	0°♄		10361 Jul 06 21:41	0°♄	
asc. node	10359 Mar 21 08:14	17°♄59'17		10361 Jul 31 00:26	0°♄	
greatest brilliancy	10359 Apr 08 10:00	28°♄27'47 -4.9m		10361 Aug 24 03:44	0°♄	
	10359 Apr 14 16:00	0°♄	morning set	10361 Aug 26 12:34	2°♄56'25	




































































































































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	10361 Sep 17 08:10	0°♊		minimum elong	10364 Feb 22 12:14	7°♋04'46	0°23'38
				min. Earth dist.	10364 Feb 22 22:44	6°♋48'30	0.27761 AU
superior conj	10361 Oct 03 13:47	20°♊06'21	1°01'56	morning rise	10364 Feb 28 18:06	3°♋21'38	
minimum elong	10361 Oct 03 03:58	19°♊36'01	1°01'43		10364 Mar 07 14:54	30°♌	
max. Earth dist.	10361 Oct 05 06:58	22°♊13'43	1.72881 AU	direct	10364 Mar 14 14:45	28°♌59'40	
	10361 Oct 11 13:46	0°♌			10364 Mar 21 19:58	0°♋	
	10361 Nov 04 20:52	0°♌		greatest brilliancy	10364 Mar 25 07:18	1°♋08'12	-4.8m
evening rise	10361 Nov 09 07:27	5°♌28'14			10364 May 02 08:44	0°♍	
	10361 Nov 29 06:22	0°♌		morning max el	10364 May 04 00:17	1°♍38'43	46°50'26
	10361 Dec 23 19:03	0°♌			10364 May 30 09:22	0°♌	
desc. node	10361 Dec 25 19:53	2°♌28'52		desc. node	10364 Jun 11 20:36	14°♌16'37	
	10362 Jan 17 11:07	0°♋			10364 Jun 25 06:10	0°♌	
	10362 Feb 11 06:39	0°♍			10364 Jul 20 06:43	0°♌	
	10362 Mar 08 07:34	0°♌			10364 Aug 13 22:43	0°♌	
	10362 Apr 02 20:33	0°♌			10364 Sep 07 11:18	0°♍	
asc. node	10362 Apr 17 18:34	16°♌57'44			10364 Oct 01 22:16	0°♊	
	10362 Apr 29 16:10	0°♌		asc. node	10364 Oct 02 15:46	0°♊53'44	
evening max el	10362 May 11 03:34	11°♌56'12	46°54'12		10364 Oct 26 07:50	0°♌	
	10362 May 30 18:24	0°♌		morning set	10364 Nov 04 10:51	11°♌14'11	
greatest brilliancy	10362 Jun 20 11:30	12°♌47'59	-4.9m		10364 Nov 19 16:09	0°♌	
retrograde	10362 Jun 30 14:28	14°♌44'13					
evening set	10362 Jul 16 03:03	10°♌01'54		superior conj	10364 Dec 11 01:42	26°♌23'35	1°19'53
inferior conj	10362 Jul 21 10:16	6°♌52'49	4°17'18	minimum elong	10364 Dec 11 08:22	26°♌44'11	1°20'15
minimum elong	10362 Jul 21 19:15	6°♌39'02	4°14'18	max. Earth dist.	10364 Dec 11 00:49	26°♌20'53	1.73219 AU
min. Earth dist.	10362 Jul 21 11:06	6°♌51'32	0.27183 AU		10364 Dec 13 23:51	0°♌	
morning rise	10362 Jul 27 11:37	3°♌18'58			10365 Jan 07 07:35	0°♌	
	10362 Aug 04 10:36	30°♌		evening rise	10365 Jan 17 11:38	12°♌32'30	
desc. node	10362 Aug 07 17:09	29°♌19'33		desc. node	10365 Jan 22 08:17	18°♌32'11	
direct	10362 Aug 11 03:38	29°♌05'17			10365 Jan 31 15:24	0°♋	
	10362 Aug 18 02:28	0°♌			10365 Feb 24 22:54	0°♍	
greatest brilliancy	10362 Aug 21 02:49	0°♌54'59	-4.8m		10365 Mar 21 06:06	0°♌	
morning max el	10362 Sep 29 14:35	0°♍00'39	46°07'11		10365 Apr 14 14:31	0°♌	
	10362 Sep 29 14:19	0°♍			10365 May 09 03:55	0°♌	
	10362 Oct 28 09:25	0°♊		asc. node	10365 May 15 05:24	7°♌20'02	
	10362 Nov 23 23:45	0°♌			10365 Jun 03 04:57	0°♌	
asc. node	10362 Nov 28 15:25	5°♌23'13			10365 Jun 29 06:40	0°♍	
	10362 Dec 19 13:40	0°♌		evening max el	10365 Jul 22 04:06	24°♍20'06	46°31'42
	10363 Jan 13 13:05	0°♌			10365 Jul 27 23:25	0°♊	
	10363 Feb 07 03:20	0°♌		greatest brilliancy	10365 Aug 30 00:55	24°♊04'31	-4.8m
	10363 Mar 03 11:30	0°♋		desc. node	10365 Sep 04 03:57	25°♊39'36	
desc. node	10363 Mar 20 08:13	20°♋55'37		retrograde	10365 Sep 10 04:41	26°♊21'12	
	10363 Mar 27 15:07	0°♍		evening set	10365 Sep 26 00:36	21°♊28'19	
morning set	10363 Mar 28 01:10	0°♍31'19		min. Earth dist.	10365 Sep 30 16:13	18°♊40'13	0.28430 AU
	10363 Apr 20 15:07	0°♌		inferior conj	10365 Oct 01 12:29	18°♊08'38	-6°06'59
max. Earth dist.	10363 May 05 18:14	18°♌58'52	1.71372 AU	minimum elong	10365 Oct 01 02:16	18°♊24'33	6°04'39
				morning rise	10365 Oct 06 04:30	15°♊18'51	
superior conj	10363 May 07 10:31	21°♌05'23	-1°25'23	direct	10365 Oct 22 18:54	10°♊05'47	
minimum elong	10363 May 07 05:01	20°♌48'08	1°25'41	greatest brilliancy	10365 Nov 01 08:39	11°♊46'00	-4.7m
	10363 May 14 12:43	0°♌			10365 Nov 29 15:18	0°♌	
	10363 Jun 07 09:44	0°♌		morning max el	10365 Dec 10 13:32	10°♌00'02	45°41'38
evening rise	10363 Jun 16 20:56	11°♌52'46		asc. node	10365 Dec 26 03:23	25°♌43'00	
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asc. node	10363 Jul 11 03:01	12°♌13'02			10366 Jan 26 02:30	0°♌	
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	10363 Aug 18 16:51	0°♊			10366 Mar 17 12:11	0°♋	
	10363 Sep 12 07:11	0°♌			10366 Apr 10 22:34	0°♍	
	10363 Oct 07 09:32	0°♌		desc. node	10366 Apr 16 21:15	7°♍21'18	
desc. node	10363 Oct 30 23:00	27°♌18'40			10366 May 05 02:22	0°♌	
	10363 Nov 02 07:55	0°♌			10366 May 29 02:02	0°♌	
	10363 Nov 29 19:54	0°♌		morning set	10366 Jun 11 19:15	17°♌12'27	
evening max el	10363 Dec 14 14:54	14°♌50'38	45°51'39		10366 Jun 21 23:56	0°♌	
	10363 Dec 31 17:51	0°♋			10366 Jul 15 22:14	0°♌	
greatest brilliancy	10364 Jan 22 19:11	13°♋14'33	-4.8m				
retrograde	10364 Feb 01 14:09	14°♋59'49		superior conj	10366 Jul 21 13:29	7°♌03'05	-0°40'09
evening set	10364 Feb 16 05:50	10°♋47'18		minimum elong	10366 Jul 21 22:37	7°♌31'39	0°40'09
asc. node	10364 Feb 20 23:38	8°♋01'18		max. Earth dist.	10366 Jul 24 11:20	10°♌41'27	1.71752 AU

asc. node	10366 Aug 07 15:36	28°♌23'50		greatest brilliancy	10369 Jan 11 20:16	19°♏46'37	-4.8m
	10366 Aug 08 22:28	0°♍		asc. node	10369 Jan 22 14:42	25°♏20'18	
evening rise	10366 Aug 29 15:38	25°♍46'12			10369 Jan 29 06:10	0°♏	
	10366 Sep 02 01:27	0°♎		morning max el	10369 Feb 19 11:16	18°♏46'27	46°05'28
	10366 Sep 26 07:56	0°♎			10369 Mar 02 11:04	0°♏	
	10366 Oct 20 19:16	0°♏			10369 Mar 29 13:21	0°♏	
	10366 Nov 14 13:34	0°♏			10369 Apr 24 01:48	0°♏	
desc. node	10366 Nov 27 10:09	15°♏23'54		desc. node	10369 May 14 10:10	24°♏36'12	
	10366 Dec 09 17:26	0°♏			10369 May 18 20:12	0°♏	
	10367 Jan 04 10:28	0°♏			10369 Jun 12 04:50	0°♏	
	10367 Jan 31 01:26	0°♏			10369 Jul 06 08:43	0°♏	
evening max el	10367 Feb 24 17:41	25°♏53'53	46°26'53		10369 Jul 30 11:16	0°♏	
	10367 Feb 28 22:48	0°♏			10369 Aug 23 14:24	0°♏	
asc. node	10367 Mar 20 10:06	16°♏44'34		morning set	10369 Aug 24 03:16	0°♏39'58	
greatest brilliancy	10367 Apr 05 23:17	26°♏04'04	-4.9m	asc. node	10369 Sep 04 04:31	14°♏23'15	
retrograde	10367 Apr 15 15:59	27°♏49'55			10369 Sep 16 18:41	0°♏	
evening set	10367 May 03 05:21	21°♏56'19					
inferior conj	10367 May 06 08:19	20°♏01'46	8°55'31	superior conj	10369 Oct 01 06:03	17°♏55'50	0°59'32
minimum elong	10367 May 06 02:42	20°♏10'27	8°54'44	minimum elong	10369 Sep 30 20:14	17°♏25'27	0°59'17
min. Earth dist.	10367 May 06 08:07	20°♏02'04	0.27221 AU	max. Earth dist.	10369 Oct 02 23:20	20°♏03'35	1.72851 AU
morning rise	10367 May 09 00:01	18°♏24'00			10369 Oct 11 00:11	0°♏	
direct	10367 May 27 01:45	12°♏10'46			10369 Nov 04 07:18	0°♏	
greatest brilliancy	10367 Jun 05 19:05	13°♏57'38	-4.9m	evening rise	10369 Nov 07 00:29	3°♏20'43	
	10367 Jun 30 14:49	0°♏			10369 Nov 28 16:57	0°♏	
desc. node	10367 Jul 10 08:11	8°♏50'58			10369 Dec 23 05:56	0°♏	
morning max el	10367 Jul 16 11:19	14°♏51'33	46°51'55	desc. node	10369 Dec 24 21:55	2°♏01'49	
	10367 Jul 30 23:48	0°♏			10370 Jan 16 22:26	0°♏	
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	10367 Sep 21 13:03	0°♏			10370 Mar 07 20:32	0°♏	
	10367 Oct 16 18:15	0°♏			10370 Apr 02 11:21	0°♏	
asc. node	10367 Oct 31 04:42	17°♏21'21		asc. node	10370 Apr 16 20:33	16°♏16'55	
	10367 Nov 10 15:40	0°♏			10370 Apr 29 11:10	0°♏	
	10367 Dec 05 07:04	0°♏		evening max el	10370 May 08 17:22	9°♏34'28	46°54'11
	10367 Dec 29 17:54	0°♏			10370 May 31 08:07	0°♏	
morning set	10368 Jan 13 01:11	17°♏37'36		greatest brilliancy	10370 Jun 18 01:31	10°♏25'47	-4.9m
	10368 Jan 23 01:39	0°♏		retrograde	10370 Jun 28 04:31	12°♏22'03	
	10368 Feb 16 07:07	0°♏		evening set	10370 Jul 13 19:16	7°♏35'31	
max. Earth dist.	10368 Feb 17 03:35	1°♏03'30	1.72488 AU	inferior conj	10370 Jul 18 23:32	4°♏30'45	4°38'10
				minimum elong	10370 Jul 19 09:03	4°♏16'10	4°35'04
superior conj	10368 Feb 19 23:37	4°♏34'33	-0°00'16	min. Earth dist.	10370 Jul 19 00:58	4°♏28'32	0.27172 AU
minimum elong	10368 Feb 19 23:37	4°♏34'33	0°00'01	morning rise	10370 Jul 24 23:00	0°♏59'49	
behind sun begin	10368 Feb 19 02:58	3°♏30'29			10370 Jul 26 21:22	30°♏	
behind sun end	10368 Feb 20 20:15	5°♏38'38		desc. node	10370 Aug 06 19:10	26°♏47'34	
desc. node	10368 Feb 19 21:03	4°♏26'34		direct	10370 Aug 08 16:57	26°♏43'10	
	10368 Mar 11 10:24	0°♏		greatest brilliancy	10370 Aug 18 15:58	28°♏33'18	-4.8m
evening rise	10368 Mar 30 02:13	23°♏16'08			10370 Aug 22 05:45	0°♏	
	10368 Apr 04 11:34	0°♏		morning max el	10370 Sep 27 05:57	27°♏46'10	46°08'42
	10368 Apr 28 11:27	0°♏			10370 Sep 29 12:42	0°♏	
	10368 May 22 12:06	0°♏			10370 Oct 28 01:04	0°♏	
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	10368 Jul 10 03:46	0°♏			10370 Dec 19 01:34	0°♏	
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	10368 Sep 27 02:48	0°♏			10371 Mar 02 22:15	0°♏	
evening max el	10368 Sep 30 22:48	3°♏46'30	45°54'24	desc. node	10371 Mar 19 09:59	20°♏27'52	
desc. node	10368 Oct 01 14:20	4°♏24'07		morning set	10371 Mar 25 13:32	28°♏06'59	
	10368 Nov 03 11:55	0°♏			10371 Mar 27 01:48	0°♏	
greatest brilliancy	10368 Nov 09 01:50	2°♏22'40	-4.7m		10371 Apr 20 01:47	0°♏	
retrograde	10368 Nov 19 00:42	4°♏11'00		max. Earth dist.	10371 May 03 04:18	16°♏26'19	1.71387 AU
	10368 Dec 03 17:49	30°♏					
evening set	10368 Dec 07 00:32	28°♏07'19		superior conj	10371 May 04 22:04	18°♏37'26	-1°24'23
inferior conj	10368 Dec 10 13:12	25°♏56'03	-8°06'32	minimum elong	10371 May 04 15:40	18°♏17'20	1°24'39
minimum elong	10368 Dec 10 20:08	25°♏45'10	8°05'19		10371 May 13 23:22	0°♏	
min. Earth dist.	10368 Dec 10 22:32	25°♏41'22	0.29021 AU		10371 Jun 06 20:25	0°♏	
morning rise	10368 Dec 14 15:34	23°♏23'47		evening rise	10371 Jun 14 08:14	9°♏24'13	
direct	10369 Jan 01 00:03	17°♏38'45			10371 Jun 30 18:59	0°♏	

asc. node	10371 Jul 10 04:58	11°Ω45'30		morning max el	10373 Dec 08 03:32	7°♄44'59	45°41'35
	10371 Jul 24 20:54	0°♈		asc. node	10373 Dec 25 05:22	25°♄02'02	
	10371 Aug 18 03:58	0°♊			10373 Dec 29 21:02	0°♈	
	10371 Sep 11 18:47	0°♋			10374 Jan 25 16:12	0°♊	
	10371 Oct 06 21:59	0°♌			10374 Feb 20 04:09	0°♋	
desc. node	10371 Oct 30 00:58	26°♌44'46			10374 Mar 16 23:53	0°♌	
	10371 Nov 01 22:04	0°♍			10374 Apr 10 09:54	0°♍	
	10371 Nov 29 14:09	0°♎		desc. node	10374 Apr 15 23:12	6°♍52'26	
evening max el	10371 Dec 12 06:45	12°♎39'41	45°50'59		10374 May 04 13:30	0°♎	
	10372 Jan 01 06:00	0°♏			10374 May 28 13:03	0°♏	
greatest brilliancy	10372 Jan 20 09:24	10°♏58'28	-4.8m	morning set	10374 Jun 09 06:39	14°♏43'13	
retrograde	10372 Jan 30 04:22	12°♏43'16			10374 Jun 21 10:52	0°♐	
evening set	10372 Feb 13 21:05	8°♏29'48			10374 Jul 15 09:06	0°♑	
inferior conj	10372 Feb 20 03:39	4°♏46'19	0°01'21				
minimum elong	10372 Feb 20 03:36	4°♏46'25	0°01'35	superior conj	10374 Jul 19 02:10	4°♑38'42	-0°43'29
transit middle	10372 Feb 20 03:36	4°♏46'25	0°01'35	minimum elong	10374 Jul 19 11:52	5°♑09'03	0°43'29
transit begin	10372 Feb 19 23:33	4°♏52'41		max. Earth dist.	10374 Jul 21 22:01	8°♑10'54	1.71710 AU
transit end	10372 Feb 20 07:38	4°♏40'08		asc. node	10374 Aug 06 17:27	27°♑55'49	
asc. node	10372 Feb 20 01:30	4°♏49'39			10374 Aug 08 09:17	0°♈	
min. Earth dist.	10372 Feb 20 13:45	4°♏30'39	0.27800 AU	evening rise	10374 Aug 27 06:37	23°♈30'08	
morning rise	10372 Feb 26 09:38	1°♏03'00			10374 Sep 01 12:16	0°♊	
	10372 Feb 28 10:09	30°♋			10374 Sep 25 18:51	0°♋	
direct	10372 Mar 12 06:16	26°♋42'15			10374 Oct 20 06:24	0°♌	
greatest brilliancy	10372 Mar 22 22:34	28°♋50'38	-4.8m		10374 Nov 14 01:11	0°♍	
	10372 Mar 25 16:16	0°♏		desc. node	10374 Nov 26 12:11	14°♍54'13	
morning max el	10372 May 01 15:03	29°♏20'04	46°49'16		10374 Dec 09 05:53	0°♎	
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	10372 May 30 01:16	0°♑			10375 Jan 30 18:21	0°♐	
desc. node	10372 Jun 10 22:34	13°♑39'57		evening max el	10375 Feb 22 06:16	23°♐29'35	46°25'25
	10372 Jun 24 19:45	0°♒			10375 Mar 01 00:25	0°♑	
	10372 Jul 19 19:07	0°♓		asc. node	10375 Mar 19 12:06	15°♑26'58	
	10372 Aug 13 10:22	0°♑		greatest brilliancy	10375 Apr 03 12:23	23°♑39'27	-4.9m
	10372 Sep 06 22:28	0°♈		retrograde	10375 Apr 13 04:26	25°♑25'10	
	10372 Oct 01 09:07	0°♊		evening set	10375 Apr 30 14:16	19°♑37'31	
asc. node	10372 Oct 01 17:37	0°♊26'06		inferior conj	10375 May 03 21:24	17°♑36'57	8°48'51
	10372 Oct 25 18:29	0°♋		minimum elong	10375 May 03 14:56	17°♑46'56	8°47'53
morning set	10372 Nov 02 03:53	9°♋06'12		min. Earth dist.	10375 May 03 21:12	17°♑37'15	0.27231 AU
	10372 Nov 19 02:43	0°♌		morning rise	10375 May 06 15:34	15°♑55'31	
				direct	10375 May 24 14:23	9°♑45'20	
superior conj	10372 Dec 08 18:57	24°♌16'18	1°21'03	greatest brilliancy	10375 Jun 03 09:15	11°♑33'24	-4.9m
minimum elong	10372 Dec 09 01:05	24°♌35'11	1°21'26		10375 Jun 30 22:20	0°♒	
max. Earth dist.	10372 Dec 08 19:47	24°♌18'51	1.73223 AU	desc. node	10375 Jul 09 10:08	7°♒54'32	
	10372 Dec 13 10:23	0°♍		morning max el	10375 Jul 14 00:14	12°♒26'00	46°52'55
	10373 Jan 06 18:11	0°♎			10375 Jul 30 18:16	0°♓	
evening rise	10373 Jan 15 03:26	10°♎20'21			10375 Aug 26 10:30	0°♑	
desc. node	10373 Jan 21 10:09	18°♎04'54			10375 Sep 21 02:07	0°♈	
	10373 Jan 31 02:10	0°♏			10375 Oct 16 06:19	0°♊	
	10373 Feb 24 09:56	0°♐		asc. node	10375 Oct 30 06:45	16°♊52'24	
	10373 Mar 20 17:30	0°♑			10375 Nov 10 03:06	0°♋	
	10373 Apr 14 02:26	0°♒			10375 Dec 04 18:06	0°♌	
	10373 May 08 16:33	0°♓			10375 Dec 29 04:45	0°♍	
asc. node	10373 May 14 07:27	6°♓47'19		morning set	10376 Jan 10 17:55	15°♓27'45	
	10373 Jun 02 18:51	0°♑			10376 Jan 22 12:26	0°♎	
	10373 Jun 28 23:15	0°♈		max. Earth dist.	10376 Feb 14 21:15	28°♎55'47	1.72532 AU
evening max el	10373 Jul 19 19:33	22°♈04'16	46°33'04		10376 Feb 15 17:57	0°♏	
	10373 Jul 28 00:22	0°♊					
greatest brilliancy	10373 Aug 27 17:11	21°♊51'29	-4.8m	superior conj	10376 Feb 17 14:09	2°♏17'04	0°03'21
desc. node	10373 Sep 03 05:47	23°♊43'03		minimum elong	10376 Feb 17 14:59	2°♏19'41	0°03'35
retrograde	10373 Sep 07 20:07	24°♊07'25		behind sun begin	10376 Feb 16 15:15	1°♏06'02	
evening set	10373 Sep 23 13:27	19°♊19'10		behind sun end	10376 Feb 18 14:44	3°♏33'20	
min. Earth dist.	10373 Sep 28 07:39	16°♊27'21	0.28375 AU	desc. node	10376 Feb 18 22:53	3°♏58'38	
inferior conj	10373 Sep 29 03:54	15°♊55'46	-5°51'59		10376 Mar 10 21:20	0°♐	
minimum elong	10373 Sep 28 17:45	16°♊11'36	5°49'35	evening rise	10376 Mar 27 15:26	20°♐53'16	
morning rise	10373 Oct 03 22:37	13°♊01'56			10376 Apr 03 22:37	0°♑	
direct	10373 Oct 20 09:57	7°♊53'53			10376 Apr 27 22:39	0°♒	
greatest brilliancy	10373 Oct 29 23:13	9°♊33'24	-4.7m		10376 May 21 23:32	0°♓	
	10373 Nov 29 18:43	0°♋		asc. node	10376 Jun 10 18:52	24°♓34'46	

	10376 Jun 15 04:11	0°♎		asc. node	10378 Nov 26 19:20	4°♎18'46	
	10376 Jul 09 16:09	0°♏			10378 Dec 18 13:48	0°♏	
	10376 Aug 03 16:45	0°♐			10379 Jan 12 11:56	0°♐	
	10376 Aug 29 17:03	0°♑			10379 Feb 06 01:29	0°♑	
	10376 Sep 26 23:55	0°♒			10379 Mar 02 09:18	0°♒	
evening max el	10376 Sep 28 13:43	1°♒32'24	45°55'29	desc. node	10379 Mar 18 12:00	19°♒59'57	
desc. node	10376 Sep 30 16:24	3°♒34'35		morning set	10379 Mar 23 02:14	25°♒42'55	
	10376 Nov 06 04:00	0°♓			10379 Mar 26 12:47	0°♓	
greatest brilliancy	10376 Nov 06 16:11	0°♓10'53	-4.7m		10379 Apr 19 12:45	0°♓	
retrograde	10376 Nov 16 17:01	2°♓01'06		max. Earth dist.	10379 Apr 30 12:13	13°♓46'01	1.71410 AU
	10376 Nov 26 18:51	30°♒♏					
evening set	10376 Dec 04 18:32	25°♒53'49		superior conj	10379 May 02 09:39	16°♓08'33	-1°23'15
inferior conj	10376 Dec 08 05:22	23°♒45'29	-8°13'20	minimum elong	10379 May 02 02:23	15°♓45'46	1°23'27
minimum elong	10376 Dec 08 11:41	23°♒35'33	8°12'14		10379 May 13 10:23	0°♐	
min. Earth dist.	10376 Dec 08 13:32	23°♒32'39	0.29042 AU		10379 Jun 06 07:30	0°♑	
morning rise	10376 Dec 12 04:45	21°♒17'56		evening rise	10379 Jun 11 19:08	6°♑53'04	
direct	10376 Dec 29 16:18	15°♒28'01			10379 Jun 30 06:08	0°♒	
greatest brilliancy	10377 Jan 09 11:53	17°♒35'37	-4.8m	asc. node	10379 Jul 09 06:47	11°♒16'15	
asc. node	10377 Jan 21 16:33	24°♒04'16			10379 Jul 24 08:10	0°♏	
	10377 Jan 29 17:57	0°♓			10379 Aug 17 15:29	0°♐	
morning max el	10377 Feb 17 03:28	16°♓34'15	46°04'00		10379 Sep 11 06:48	0°♑	
	10377 Mar 02 05:29	0°♒			10379 Oct 06 10:54	0°♒	
	10377 Mar 29 03:59	0°♓		desc. node	10379 Oct 29 03:01	26°♒09'42	
desc. node	10377 Apr 23 14:53	0°♓			10379 Nov 01 12:49	0°♓	
	10377 May 13 12:10	24°♓04'36			10379 Nov 29 09:19	0°♒	
	10377 May 18 08:27	0°♓		evening max el	10379 Dec 09 21:59	10°♒26'14	45°50'21
	10377 Jun 11 16:36	0°♐			10380 Jan 01 22:51	0°♓	
	10377 Jul 05 20:09	0°♑		greatest brilliancy	10380 Jan 18 00:17	8°♓42'34	-4.8m
	10377 Jul 29 22:28	0°♒		retrograde	10380 Jan 27 18:17	10°♓26'16	
morning set	10377 Aug 21 17:43	28°♒21'30		evening set	10380 Feb 11 12:36	6°♓11'42	
	10377 Aug 23 01:26	0°♏		inferior conj	10380 Feb 17 18:16	2°♓29'05	-0°20'54
asc. node	10377 Sep 03 06:22	13°♏55'00		minimum elong	10380 Feb 17 19:04	2°♓27'52	0°20'24
	10377 Sep 16 05:36	0°♐		min. Earth dist.	10380 Feb 18 05:08	2°♓12'12	0.27836 AU
				asc. node	10380 Feb 19 03:29	1°♓37'29	
superior conj	10377 Sep 28 22:06	15°♐43'15	0°57'01		10380 Feb 21 19:45	30°♒♒	
minimum elong	10377 Sep 28 12:19	15°♐12'58	0°56'44	morning rise	10380 Feb 24 01:01	28°♒44'15	
max. Earth dist.	10377 Sep 30 17:01	17°♐56'08	1.72823 AU	direct	10380 Mar 09 21:17	24°♒24'40	
	10377 Oct 10 11:03	0°♑		greatest brilliancy	10380 Mar 20 14:11	26°♒33'10	-4.8m
	10377 Nov 03 18:11	0°♒			10380 Mar 27 17:47	0°♓	
evening rise	10377 Nov 04 17:32	1°♒11'53		morning max el	10380 Apr 29 04:41	26°♓58'09	46°48'02
	10377 Nov 28 03:58	0°♓			10380 May 02 04:25	0°♓	
	10377 Dec 22 17:13	0°♒			10380 May 29 17:06	0°♓	
desc. node	10377 Dec 23 23:49	1°♒33'11		desc. node	10380 Jun 10 00:30	13°♓02'51	
	10378 Jan 16 10:09	0°♓			10380 Jun 24 09:27	0°♐	
	10378 Feb 10 07:00	0°♓			10380 Jul 19 07:43	0°♑	
	10378 Mar 07 10:01	0°♓			10380 Aug 12 22:18	0°♒	
	10378 Apr 02 02:50	0°♐			10380 Sep 06 09:54	0°♏	
asc. node	10378 Apr 15 22:34	15°♐34'18		asc. node	10380 Sep 30 19:40	29°♏58'22	
	10378 Apr 29 07:22	0°♑			10380 Sep 30 20:11	0°♐	
evening max el	10378 May 06 07:55	7°♑12'58	46°54'01		10380 Oct 25 05:20	0°♑	
	10378 Jun 01 03:37	0°♒		morning set	10380 Oct 30 20:34	6°♑56'28	
greatest brilliancy	10378 Jun 15 15:17	8°♒01'27	-4.9m		10380 Nov 18 13:28	0°♒	
retrograde	10378 Jun 25 18:31	9°♒57'36					
evening set	10378 Jul 11 11:30	5°♒06'59		superior conj	10380 Dec 06 12:06	22°♒08'07	1°22'07
inferior conj	10378 Jul 16 12:36	2°♒06'33	4°58'44	minimum elong	10380 Dec 06 17:38	22°♒25'09	1°22'31
minimum elong	10378 Jul 16 22:35	1°♒51'15	4°55'34	max. Earth dist.	10380 Dec 06 12:56	22°♒10'41	1.73228 AU
min. Earth dist.	10378 Jul 16 14:24	2°♒03'47	0.27158 AU		10380 Dec 12 21:08	0°♓	
	10378 Jul 20 00:30	30°♒♑			10381 Jan 06 05:00	0°♒	
morning rise	10378 Jul 22 09:54	28°♑38'51		evening rise	10381 Jan 12 19:15	8°♒07'38	
desc. node	10378 Aug 05 21:03	24°♑19'24		desc. node	10381 Jan 20 12:02	17°♒37'03	
direct	10378 Aug 06 06:30	24°♑19'13			10381 Jan 30 13:08	0°♓	
greatest brilliancy	10378 Aug 16 04:25	26°♑09'03	-4.8m		10381 Feb 23 21:09	0°♓	
	10378 Aug 24 10:29	0°♒			10381 Mar 20 05:02	0°♓	
morning max el	10378 Sep 24 20:50	25°♒29'12	46°10'09		10381 Apr 13 14:25	0°♐	
	10378 Sep 29 10:42	0°♏			10381 May 08 05:17	0°♑	
	10378 Oct 27 16:53	0°♐		asc. node	10381 May 13 09:24	6°♑14'10	
	10378 Nov 23 02:19	0°♑			10381 Jun 02 08:56	0°♒	

	10381 Jun 28 16:16	0°♍		max. Earth dist.	10384 Feb 12 16:07	26°♊52'36	1.72573 AU
evening max el	10381 Jul 17 09:58	19°♍45'09	46°34'13				
	10381 Jul 28 03:01	0°♌		superior conj	10384 Feb 15 04:31	29°♊59'53	0°06'56
greatest brilliancy	10381 Aug 25 09:26	19°♌37'09	-4.8m	minimum elong	10384 Feb 15 06:13	0°♋05'08	0°07'08
desc. node	10381 Sep 02 07:54	21°♌40'54		behind sun begin	10384 Feb 14 08:19	28°♊57'15	
retrograde	10381 Sep 05 11:06	21°♌52'22		behind sun end	10384 Feb 16 04:06	1°♋13'01	
evening set	10381 Sep 21 02:08	17°♌08'22			10384 Feb 15 04:33	0°♋	
min. Earth dist.	10381 Sep 25 23:10	14°♌12'43	0.28321 AU	desc. node	10384 Feb 18 00:51	3°♋31'50	
inferior conj	10381 Sep 26 19:05	13°♌41'39	-5°36'06		10384 Mar 10 08:02	0°♌	
minimum elong	10381 Sep 26 09:04	13°♌57'17	5°33'40	evening rise	10384 Mar 25 04:40	18°♌31'16	
morning rise	10381 Oct 01 16:32	10°♌43'47			10384 Apr 03 09:25	0°♍	
direct	10381 Oct 18 00:16	5°♌40'35			10384 Apr 27 09:37	0°♎	
greatest brilliancy	10381 Oct 27 14:11	7°♌20'12	-4.7m		10384 May 21 10:43	0°♏	
	10381 Nov 29 20:47	0°♎		asc. node	10384 Jun 09 20:44	24°♏05'15	
morning max el	10381 Dec 05 17:02	5°♎28'15	45°41'41		10384 Jun 14 15:40	0°♏	
asc. node	10381 Dec 24 07:19	24°♎21'09			10384 Jul 09 04:09	0°♍	
	10381 Dec 29 13:33	0°♎			10384 Aug 03 05:45	0°♌	
	10382 Jan 25 05:48	0°♏			10384 Aug 29 08:12	0°♎	
	10382 Feb 19 16:28	0°♋		evening max el	10384 Sep 26 05:31	29°♎21'45	45°56'25
	10382 Mar 16 11:33	0°♋			10384 Sep 26 21:17	0°♎	
	10382 Apr 09 21:12	0°♌		desc. node	10384 Sep 29 18:25	2°♎45'19	
desc. node	10382 Apr 15 01:11	6°♌23'50		greatest brilliancy	10384 Nov 04 06:16	27°♎59'59	-4.7m
	10382 May 04 00:34	0°♍		retrograde	10384 Nov 14 09:32	29°♎52'08	
	10382 May 27 23:57	0°♎		evening set	10384 Dec 02 12:20	23°♎41'42	
morning set	10382 Jun 06 18:18	12°♎15'11		inferior conj	10384 Dec 05 21:31	21°♎35'51	-8°19'22
	10382 Jun 20 21:39	0°♏		minimum elong	10384 Dec 06 03:14	21°♎26'52	8°18'24
	10382 Jul 14 19:49	0°♏		min. Earth dist.	10384 Dec 06 04:13	21°♎25'19	0.29063 AU
				morning rise	10384 Dec 09 18:04	19°♎12'46	
superior conj	10382 Jul 16 15:01	2°♏15'10	-0°46'44	direct	10384 Dec 27 09:01	13°♎18'27	
minimum elong	10382 Jul 17 01:13	2°♏47'06	0°46'44	greatest brilliancy	10385 Jan 07 02:57	15°♎24'59	-4.8m
max. Earth dist.	10382 Jul 19 07:23	5°♏36'32	1.71675 AU	asc. node	10385 Jan 20 18:34	22°♎51'39	
asc. node	10382 Aug 05 19:24	27°♏28'27			10385 Jan 30 02:12	0°♏	
	10382 Aug 07 20:00	0°♍		morning max el	10385 Feb 14 19:54	14°♏23'45	46°02'30
evening rise	10382 Aug 24 21:29	21°♍13'54			10385 Mar 01 23:05	0°♋	
	10382 Aug 31 23:02	0°♌			10385 Mar 28 18:06	0°♋	
	10382 Sep 25 05:43	0°♎			10385 Apr 23 03:30	0°♌	
	10382 Oct 19 17:32	0°♎		desc. node	10385 May 12 13:59	23°♌33'39	
	10382 Nov 13 12:47	0°♏			10385 May 17 20:17	0°♍	
desc. node	10382 Nov 25 14:04	14°♏24'12			10385 Jun 11 03:57	0°♎	
	10382 Dec 08 18:20	0°♋			10385 Jul 05 07:11	0°♏	
	10383 Jan 03 14:24	0°♋			10385 Jul 29 09:15	0°♏	
	10383 Jan 30 11:33	0°♌		morning set	10385 Aug 19 08:36	26°♏05'41	
evening max el	10383 Feb 19 19:06	21°♌06'23	46°24'02		10385 Aug 22 12:00	0°♍	
	10383 Mar 01 03:23	0°♍		asc. node	10385 Sep 02 08:23	13°♍28'39	
asc. node	10383 Mar 18 14:12	14°♍07'27			10385 Sep 15 16:01	0°♌	
greatest brilliancy	10383 Apr 01 00:59	21°♍14'39	-4.9m				
retrograde	10383 Apr 10 17:24	23°♍01'06		superior conj	10385 Sep 26 14:30	13°♌33'13	0°54'26
evening set	10383 Apr 27 22:59	17°♍19'20		minimum elong	10385 Sep 26 04:49	13°♌03'15	0°54'08
inferior conj	10383 May 01 10:28	15°♍12'37	8°41'12	max. Earth dist.	10385 Sep 28 13:11	15°♌57'46	1.72794 AU
minimum elong	10383 May 01 03:13	15°♍23'47	8°40'06		10385 Oct 09 21:24	0°♎	
min. Earth dist.	10383 May 01 10:00	15°♍13'19	0.27236 AU	evening rise	10385 Nov 02 10:56	29°♎05'31	
morning rise	10383 May 04 07:23	13°♍27'13			10385 Nov 03 04:37	0°♎	
direct	10383 May 22 03:18	7°♍20'32			10385 Nov 27 14:35	0°♏	
greatest brilliancy	10383 May 31 22:54	9°♍09'31	-4.9m		10385 Dec 22 04:07	0°♋	
	10383 Jul 01 03:13	0°♎		desc. node	10385 Dec 23 01:42	1°♋05'41	
desc. node	10383 Jul 08 12:04	7°♎00'16			10386 Jan 15 21:31	0°♋	
morning max el	10383 Jul 11 14:01	10°♎03'43	46°54'01		10386 Feb 09 19:04	0°♌	
	10383 Jul 30 11:54	0°♏			10386 Mar 06 23:13	0°♍	
	10383 Aug 26 00:45	0°♏			10386 Apr 01 18:09	0°♎	
	10383 Sep 20 14:47	0°♍		asc. node	10386 Apr 15 00:31	14°♎52'11	
	10383 Oct 15 18:04	0°♌			10386 Apr 29 03:46	0°♏	
asc. node	10383 Oct 29 08:36	16°♌23'37		evening max el	10386 May 03 22:35	4°♏52'57	46°53'43
	10383 Nov 09 14:17	0°♎			10386 Jun 02 05:25	0°♏	
	10383 Dec 04 04:55	0°♎		greatest brilliancy	10386 Jun 13 05:29	5°♏38'54	-4.9m
	10383 Dec 28 15:23	0°♏		retrograde	10386 Jun 23 08:17	7°♏34'11	
morning set	10384 Jan 08 10:31	13°♏18'14		evening set	10386 Jul 09 03:56	2°♏39'39	
	10384 Jan 21 23:00	0°♋			10386 Jul 13 14:59	30°♑♏	

inferior conj	10386 Jul 14 01:41	29°  43'35	5°18'49	max. Earth dist.	10388 Dec 04 06:07	20°  03'39	1.73229 AU
minimum elong	10386 Jul 14 12:05	29°  27'40	5°15'35		10388 Dec 12 07:31	0° 	
min. Earth dist.	10386 Jul 14 03:55	29°  40'10	0.27143 AU		10389 Jan 05 15:28	0° 	
morning rise	10386 Jul 19 20:30	26°  19'16		evening rise	10389 Jan 10 11:33	5°  57'36	
direct	10386 Aug 03 20:01	21°  56'41		desc. node	10389 Jan 19 14:04	17°  10'44	
desc. node	10386 Aug 04 23:09	21°  58'12			10389 Jan 29 23:48	0° 	
greatest brilliancy	10386 Aug 13 16:50	23°  45'50	-4.8m		10389 Feb 23 08:06	0° 	
	10386 Aug 25 20:28	0° 			10389 Mar 19 16:23	0° 	
morning max el	10386 Sep 22 10:55	23°  11'34	46°11'47		10389 Apr 13 02:17	0° 	
	10386 Sep 29 07:17	0° 			10389 May 07 17:57	0° 	
	10386 Oct 27 07:52	0° 		asc. node	10389 May 12 11:17	5°  41'04	
	10386 Nov 22 15:04	0° 			10389 Jun 01 23:02	0° 	
asc. node	10386 Nov 25 21:15	3°  14'42			10389 Jun 28 09:30	0° 	
	10386 Dec 18 01:29	0° 		evening max el	10389 Jul 14 23:33	17°  17'24'23	46°35'31
	10387 Jan 11 23:03	0° 			10389 Jul 28 07:07	0° 	
	10387 Feb 05 12:19	0° 		greatest brilliancy	10389 Aug 23 01:23	17°  12'22'45	-4.8m
	10387 Mar 01 19:59	0° 		desc. node	10389 Sep 01 09:54	19°  13'34'29	
desc. node	10387 Mar 17 13:57	19°  13'32'56		retrograde	10389 Sep 03 02:11	19°  13'37'49	
morning set	10387 Mar 20 14:53	23°  19'51		evening set	10389 Sep 18 14:53	14°  13'57'27	
	10387 Mar 25 23:23	0° 		min. Earth dist.	10389 Sep 23 14:40	11°  13'58'18	0.28267 AU
	10387 Apr 18 23:21	0° 		inferior conj	10389 Sep 24 10:13	11°  13'27'52	-5°19'35
max. Earth dist.	10387 Apr 27 18:00	11°  13'00'17	1.71433 AU	minimum elong	10389 Sep 24 00:23	11°  13'43'12	5°17'08
				morning rise	10389 Sep 29 10:22	8°  13'26'12	
superior conj	10387 Apr 29 21:09	13°  13'40'43	-1°21'55	direct	10389 Oct 15 14:18	3°  13'27'21	
minimum elong	10387 Apr 29 13:05	13°  13'15'25	1°22'05	greatest brilliancy	10389 Oct 25 05:24	5°  13'07'42	-4.7m
	10387 May 12 21:02	0° 			10389 Nov 29 21:14	0° 	
	10387 Jun 05 18:12	0° 		morning max el	10389 Dec 03 07:10	3°  13'13'38	45°42'05
evening rise	10387 Jun 09 05:54	4°  13'22'40		asc. node	10389 Dec 23 09:17	23°  13'41'32	
	10387 Jun 29 16:55	0° 			10389 Dec 29 05:28	0° 	
asc. node	10387 Jul 08 08:47	10°  13'48'43			10390 Jan 24 19:02	0° 	
	10387 Jul 23 19:05	0° 			10390 Feb 19 04:30	0° 	
	10387 Aug 17 02:40	0° 			10390 Mar 15 22:59	0° 	
	10387 Sep 10 18:26	0° 			10390 Apr 09 08:21	0° 	
	10387 Oct 05 23:25	0° 		desc. node	10390 Apr 14 03:00	5°  13'55'04	
desc. node	10387 Oct 28 04:56	25°  13'35'37			10390 May 03 11:33	0° 	
	10387 Nov 01 03:10	0° 			10390 May 27 10:50	0° 	
	10387 Nov 29 04:25	0° 		morning set	10390 Jun 04 05:26	9°  13'45'24	
evening max el	10387 Dec 07 12:18	8°  13'12'07	45°49'38		10390 Jun 20 08:26	0° 	
	10388 Jan 02 20:38	0° 					
greatest brilliancy	10388 Jan 15 15:32	6°  13'28'32	-4.8m	superior conj	10390 Jul 14 03:20	29°  13'49'55	-0°49'55
retrograde	10388 Jan 25 07:55	8°  13'11'02		minimum elong	10390 Jul 14 13:58	0°  13'23'14	0°49'56
evening set	10388 Feb 09 04:22	3°  13'54'45			10390 Jul 14 06:33	0° 	
inferior conj	10388 Feb 15 09:02	0°  13'13'28	-0°43'03	max. Earth dist.	10390 Jul 16 15:29	2°  13'58'11	1.71640 AU
minimum elong	10388 Feb 15 10:39	0°  13'10'57	0°42'15	asc. node	10390 Aug 04 21:20	27°  13'01'06	
	10388 Feb 15 17:41	30° 			10390 Aug 07 06:43	0° 	
min. Earth dist.	10388 Feb 15 20:55	29°  13'54'57	0.27880 AU	evening rise	10390 Aug 22 12:03	18°  13'17'56'46	
asc. node	10388 Feb 18 05:35	28°  13'27'29			10390 Aug 31 09:47	0° 	
morning rise	10388 Feb 21 16:21	26°  13'27'20			10390 Sep 24 16:35	0° 	
direct	10388 Mar 07 12:04	22°  13'08'20			10390 Oct 19 04:39	0° 	
greatest brilliancy	10388 Mar 18 06:36	24°  13'17'46	-4.8m		10390 Nov 13 00:23	0° 	
	10388 Mar 29 02:07	0° 		desc. node	10390 Nov 24 16:02	13°  13'35'42'29	
morning max el	10388 Apr 26 17:58	24°  13'36'05	46°46'49		10390 Dec 08 06:48	0° 	
	10388 May 02 00:54	0° 			10391 Jan 03 04:26	0° 	
	10388 May 29 08:26	0° 			10391 Jan 30 04:56	0° 	
desc. node	10388 Jun 09 02:28	12°  13'27'00		evening max el	10391 Feb 17 08:48	18°  13'46'05	46°22'40
	10388 Jun 23 22:45	0° 			10391 Mar 01 07:50	0° 	
	10388 Jul 18 19:56	0° 		asc. node	10391 Mar 17 16:03	12°  13'45'25	
	10388 Aug 12 09:50	0° 		greatest brilliancy	10391 Mar 29 13:00	18°  13'49'55	-4.9m
	10388 Sep 05 20:59	0° 		retrograde	10391 Apr 08 06:56	20°  13'37'34	
asc. node	10388 Sep 29 21:29	29°  13'17'30'51		evening set	10391 Apr 25 07:40	15°  13'01'44	
	10388 Sep 30 06:57	0° 		inferior conj	10391 Apr 28 23:36	12°  13'48'31	8°32'27
	10388 Oct 24 15:53	0° 		minimum elong	10391 Apr 28 15:39	13°  13'00'45	8°31'11
morning set	10388 Oct 28 13:29	4°  13'14'48'22		min. Earth dist.	10391 Apr 28 22:34	12°  13'50'07	0.27249 AU
	10388 Nov 17 23:52	0° 		morning rise	10391 May 01 23:36	10°  13'58'42	
				direct	10391 May 19 16:55	4°  13'56'01	
superior conj	10388 Dec 04 05:43	20°  13'02'26	1°23'02	greatest brilliancy	10391 May 29 12:14	6°  13'45'14	-4.9m
minimum elong	10388 Dec 04 10:37	20°  13'17'31	1°23'27		10391 Jul 01 06:32	0° 	

desc. node	10391 Jul 07 14:08	6° Π 06'53		10394 Jan 15 09:16	0° H	
morning max el	10391 Jul 09 04:42	7° Π 43'06	46°54'48	10394 Feb 09 07:32	0° Y	
	10391 Jul 30 05:22	0° S		10394 Mar 06 12:51	0° B	
	10391 Aug 25 15:05	0° Ω		10394 Apr 01 09:59	0° Π	
	10391 Sep 20 03:34	0° M		10394 Apr 14 02:30	14° Π 08'59	
	10391 Oct 15 05:55	0° L		10394 Apr 29 01:08	0° S	
asc. node	10391 Oct 28 10:29	15° L 54'34		10394 May 01 12:40	2° S 30'49	46°53'24
	10391 Nov 09 01:33	0° M		10394 Jun 03 18:21	0° Ω	
	10391 Dec 03 15:51	0° A		10394 Jun 10 20:08	3° Ω 16'30	-4.9m
	10391 Dec 28 02:07	0° S		10394 Jun 20 21:38	5° Ω 10'17	
morning set	10392 Jan 06 03:25	11° S 09'22		10394 Jul 06 20:31	0° Ω 11'47	
	10392 Jan 21 09:41	0° \approx		10394 Jul 07 04:45	30° R S	
max. Earth dist.	10392 Feb 10 10:54	24° \approx 48'57	1.72606 AU	inferior conj	10394 Jul 11 14:54	27° S 20'13 5°38'04
				minimum elong	10394 Jul 12 01:36	27° S 03'47 5°34'52
superior conj	10392 Feb 12 19:22	27° \approx 43'58	0°10'27	min. Earth dist.	10394 Jul 11 17:43	27° S 15'54 0.27133 AU
minimum elong	10392 Feb 12 21:53	27° \approx 51'46	0°10'37	morning rise	10394 Jul 17 06:57	23° S 59'20
behind sun begin	10392 Feb 12 03:35	26° \approx 55'03		direct	10394 Aug 01 09:14	19° S 33'33
behind sun end	10392 Feb 13 16:10	28° \approx 48'29		desc. node	10394 Aug 04 01:07	19° S 41'53
	10392 Feb 14 15:14	0° H		greatest brilliancy	10394 Aug 11 05:43	21° S 22'11 -4.8m
desc. node	10392 Feb 17 02:47	3° H 04'40			10394 Aug 26 21:12	0° Ω
	10392 Mar 09 18:47	0° Y		morning max el	10394 Sep 20 00:13	20° Ω 50'34 46°13'12
evening rise	10392 Mar 22 18:23	16° Y 10'37			10394 Sep 29 03:41	0° M
	10392 Apr 02 20:18	0° B			10394 Oct 26 23:10	0° L
	10392 Apr 26 20:41	0° Π			10394 Nov 22 04:16	0° M
	10392 May 20 22:04	0° S		asc. node	10394 Nov 24 23:17	3° M 15'37
asc. node	10392 Jun 08 22:45	23° S 35'28			10394 Dec 17 13:36	0° A
	10392 Jun 14 03:26	0° Ω			10395 Jan 11 10:35	0° S
	10392 Jul 08 16:32	0° M			10395 Feb 04 23:31	0° \approx
	10392 Aug 02 19:12	0° L			10395 Mar 01 07:01	0° H
	10392 Aug 28 23:59	0° M		desc. node	10395 Mar 16 15:44	19° H 04'16
evening max el	10392 Sep 23 21:38	27° M 10'39	45°57'29	morning set	10395 Mar 18 03:32	20° H 55'39
	10392 Sep 26 20:01	0° A			10395 Mar 25 10:22	0° Y
desc. node	10392 Sep 28 20:19	1° A 53'47			10395 Apr 18 10:19	0° B
greatest brilliancy	10392 Nov 01 20:41	25° A 48'23	-4.7m	max. Earth dist.	10395 Apr 24 22:47	8° B 10'25 1.71457 AU
retrograde	10392 Nov 12 01:55	27° A 41'45				
evening set	10392 Nov 30 05:53	21° A 28'48		superior conj	10395 Apr 27 08:52	11° B 12'33 -1°20'26
inferior conj	10392 Dec 03 13:33	19° A 25'01	-8°24'46	minimum elong	10395 Apr 27 00:05	10° B 45'00 1°20'34
minimum elong	10392 Dec 03 18:36	19° A 17'04	8°23'54		10395 May 12 08:01	0° Π
min. Earth dist.	10392 Dec 03 18:41	19° A 16'57	0.29076 AU		10395 Jun 05 05:12	0° S
morning rise	10392 Dec 07 07:20	17° A 06'06		evening rise	10395 Jun 06 16:57	1° S 52'10
direct	10392 Dec 25 01:41	11° A 07'55			10395 Jun 29 03:59	0° Ω
greatest brilliancy	10393 Jan 04 17:16	13° A 12'29	-4.8m	asc. node	10395 Jul 07 10:44	10° Ω 20'06
asc. node	10393 Jan 19 20:38	21° A 40'20			10395 Jul 23 06:19	0° M
	10393 Jan 30 08:24	0° S			10395 Aug 16 14:11	0° L
morning max el	10393 Feb 12 11:56	12° S 11'36	46°01'08		10395 Sep 10 06:30	0° M
	10393 Mar 01 16:33	0° \approx			10395 Oct 05 12:29	0° A
	10393 Mar 28 08:15	0° H		desc. node	10395 Oct 27 06:55	25° A 00'02
	10393 Apr 22 16:12	0° Y			10395 Oct 31 18:15	0° S
desc. node	10393 May 11 15:59	23° Y 02'52			10395 Nov 29 00:45	0° \approx
	10393 May 17 08:14	0° B		evening max el	10395 Dec 05 01:55	5° \approx 54'48 45°49'04
	10393 Jun 10 15:27	0° Π			10396 Jan 04 04:05	0° H
	10393 Jul 04 18:26	0° S		greatest brilliancy	10396 Jan 13 06:37	4° H 12'48 -4.8m
	10393 Jul 28 20:19	0° Ω		retrograde	10396 Jan 22 21:41	5° H 54'33
morning set	10393 Aug 16 23:04	23° Ω 47'30		evening set	10396 Feb 06 20:11	1° H 35'58
	10393 Aug 21 22:55	0° M			10396 Feb 09 15:16	30° R \approx
asc. node	10393 Sep 01 10:13	13° M 00'37		inferior conj	10396 Feb 12 23:44	27° \approx 56'28 -1°04'59
	10393 Sep 15 02:50	0° L		minimum elong	10396 Feb 13 02:11	27° \approx 52'39 1°03'55
				min. Earth dist.	10396 Feb 13 12:41	27° \approx 36'17 0.27923 AU
superior conj	10393 Sep 24 06:19	11° L 20'07	0°51'43	asc. node	10396 Feb 17 07:27	25° \approx 17'44
minimum elong	10393 Sep 23 20:50	10° L 50'44	0°51'24	morning rise	10396 Feb 19 07:27	24° \approx 09'29
max. Earth dist.	10393 Sep 26 08:34	13° L 55'46	1.72761 AU	direct	10396 Mar 05 02:32	19° \approx 50'27
	10393 Oct 09 08:10	0° M		greatest brilliancy	10396 Mar 15 23:12	22° \approx 01'26 -4.8m
evening rise	10393 Oct 31 03:47	26° M 56'15			10396 Mar 30 01:54	0° H
	10393 Nov 02 15:26	0° A		morning max el	10396 Apr 24 07:49	22° H 14'21 46°45'40
	10393 Nov 27 01:34	0° S			10396 May 01 21:08	0° Y
	10393 Dec 21 15:25	0° \approx			10396 May 28 23:53	0° B
desc. node	10393 Dec 22 03:44	0° \approx 37'30		desc. node	10396 Jun 08 04:27	11° B 50'27

	10396 Jun 23 12:15	0°♂			10399 Mar 01 14:50	0°♂	
	10396 Jul 18 08:23	0°♂		asc. node	10399 Mar 16 18:05	11°♂19'53	
	10396 Aug 11 21:37	0°♂		greatest brilliancy	10399 Mar 27 00:53	16°♂24'08	-4.9m
	10396 Sep 05 08:19	0°♂		retrograde	10399 Apr 05 20:31	18°♂12'46	
asc. node	10396 Sep 28 23:21	29°♂02'38		evening set	10399 Apr 22 16:10	12°♂43'20	
	10396 Sep 29 18:00	0°♂		inferior conj	10399 Apr 26 12:36	10°♂23'25	8°22'50
	10396 Oct 24 02:45	0°♂		minimum elong	10399 Apr 26 04:00	10°♂36'39	8°21'24
morning set	10396 Oct 26 06:15	2°♂38'40		min. Earth dist.	10399 Apr 26 10:51	10°♂26'05	0.27256 AU
	10396 Nov 17 10:40	0°♂		morning rise	10399 Apr 29 15:48	8°♂28'51	
				direct	10399 May 17 06:38	2°♂30'49	
superior conj	10396 Dec 01 23:03	17°♂54'38	1°23'50	greatest brilliancy	10399 May 27 00:57	4°♂19'30	-4.9m
minimum elong	10396 Dec 02 03:18	18°♂07'44	1°24'17		10399 Jul 01 08:29	0°♂	
max. Earth dist.	10396 Dec 01 23:29	17°♂55'58	1.73235 AU	desc. node	10399 Jul 06 16:05	5°♂13'57	
	10396 Dec 11 18:18	0°♂		morning max el	10399 Jul 06 19:11	5°♂21'45	46°55'31
	10397 Jan 05 02:20	0°♂			10399 Jul 29 22:35	0°♂	
evening rise	10397 Jan 08 03:31	3°♂45'22			10399 Aug 25 05:20	0°♂	
desc. node	10397 Jan 18 15:54	16°♂42'35			10399 Sep 19 16:19	0°♂	
	10397 Jan 29 10:52	0°♂			10399 Oct 14 17:46	0°♂	
	10397 Feb 22 19:27	0°♂		asc. node	10399 Oct 27 12:31	15°♂25'56	
	10397 Mar 19 04:06	0°♂			10399 Nov 08 12:49	0°♂	
	10397 Apr 12 14:32	0°♂			10399 Dec 03 02:45	0°♂	
	10397 May 07 07:02	0°♂			10399 Dec 27 12:51	0°♂	
asc. node	10397 May 11 13:20	5°♂07'19		morning set	10400 Jan 03 20:26	9°♂00'50	
	10397 Jun 01 13:38	0°♂			10400 Jan 20 20:24	0°♂	
	10397 Jun 28 03:27	0°♂		max. Earth dist.	10400 Feb 08 03:55	22°♂39'38	1.72645 AU
evening max el	10397 Jul 12 13:36	15°♂04'05	46°36'58				
	10397 Jul 28 13:30	0°♂		superior conj	10400 Feb 10 10:10	25°♂27'43	0°13'57
greatest brilliancy	10397 Aug 20 16:50	15°♂07'10	-4.8m	minimum elong	10400 Feb 10 13:28	25°♂37'57	0°14'07
desc. node	10397 Aug 31 11:47	17°♂22'50		behind sun begin	10400 Feb 10 01:56	25°♂02'12	
retrograde	10397 Aug 31 17:47	17°♂22'55		behind sun end	10400 Feb 11 01:01	26°♂13'43	
evening set	10397 Sep 16 03:50	12°♂45'39			10400 Feb 14 02:01	0°♂	
min. Earth dist.	10397 Sep 21 05:56	9°♂43'43	0.28215 AU	desc. node	10400 Feb 16 04:37	2°♂36'56	
inferior conj	10397 Sep 22 01:23	9°♂13'31	-5°02'37		10400 Mar 09 05:39	0°♂	
minimum elong	10397 Sep 21 15:47	9°♂28'26	5°00'09	evening rise	10400 Mar 20 07:45	13°♂48'34	
morning rise	10397 Sep 27 04:14	6°♂08'22			10400 Apr 02 07:18	0°♂	
direct	10397 Oct 13 04:37	1°♂13'31			10400 Apr 26 07:51	0°♂	
greatest brilliancy	10397 Oct 22 20:23	2°♂54'32	-4.8m		10400 May 20 09:30	0°♂	
	10397 Nov 29 20:49	0°♂		asc. node	10400 Jun 08 00:42	23°♂05'22	
morning max el	10397 Nov 30 22:12	1°♂00'32	45°42'18		10400 Jun 13 15:14	0°♂	
asc. node	10397 Dec 22 11:17	23°♂01'35			10400 Jul 08 04:57	0°♂	
	10397 Dec 28 21:27	0°♂			10400 Aug 02 08:45	0°♂	
	10398 Jan 24 08:31	0°♂			10400 Aug 28 15:59	0°♂	
	10398 Feb 18 16:50	0°♂		evening max el	10400 Sep 21 13:49	24°♂59'53	45°58'35
	10398 Mar 15 10:44	0°♂			10400 Sep 26 19:38	0°♂	
	10398 Apr 08 19:45	0°♂		desc. node	10400 Sep 27 22:24	1°♂02'03	
desc. node	10398 Apr 13 04:59	5°♂26'01		greatest brilliancy	10400 Oct 30 11:57	23°♂38'23	-4.7m
	10398 May 02 22:45	0°♂		retrograde	10400 Nov 09 18:03	25°♂32'11	
	10398 May 26 21:54	0°♂		evening set	10400 Nov 27 23:20	19°♂17'30	
morning set	10398 Jun 01 16:28	7°♂14'41		inferior conj	10400 Dec 01 05:47	17°♂15'19	-8°29'24
	10398 Jun 19 19:26	0°♂		minimum elong	10400 Dec 01 10:08	17°♂08'29	8°28'39
				min. Earth dist.	10400 Dec 01 09:33	17°♂09'24	0.29084 AU
superior conj	10398 Jul 11 15:36	27°♂23'47	-0°53'01	morning rise	10400 Dec 04 20:57	15°♂00'10	
minimum elong	10398 Jul 12 02:38	27°♂58'19	0°53'03	direct	10400 Dec 22 18:19	8°♂58'39	
	10398 Jul 13 17:29	0°♂		greatest brilliancy	10401 Jan 02 07:41	11°♂01'01	-4.7m
max. Earth dist.	10398 Jul 14 00:20	0°♂21'25	1.71606 AU	asc. node	10401 Jan 18 22:29	20°♂31'26	
asc. node	10398 Aug 03 23:11	26°♂32'48			10401 Jan 30 12:18	0°♂	
	10398 Aug 06 17:37	0°♂		morning max el	10401 Feb 10 03:07	9°♂57'56	45°59'35
evening rise	10398 Aug 20 02:40	16°♂39'13			10401 Mar 01 09:29	0°♂	
	10398 Aug 30 20:42	0°♂			10401 Mar 27 22:11	0°♂	
	10398 Sep 24 03:36	0°♂			10401 Apr 22 04:50	0°♂	
	10398 Oct 18 15:55	0°♂		desc. node	10401 May 10 17:57	22°♂32'03	
	10398 Nov 12 12:11	0°♂			10401 May 16 20:08	0°♂	
desc. node	10398 Nov 23 18:04	13°♂24'26			10401 Jun 10 02:56	0°♂	
	10398 Dec 07 19:32	0°♂			10401 Jul 04 05:36	0°♂	
	10399 Jan 02 18:53	0°♂			10401 Jul 28 07:16	0°♂	
	10399 Jan 29 23:05	0°♂		morning set	10401 Aug 14 13:26	21°♂29'21	
evening max el	10399 Feb 14 23:27	16°♂27'20	46°21'15		10401 Aug 21 09:41	0°♂	

asc. node	10401 Aug 31 12:06	12°♍33'11		inferior conj	10404 Feb 10 14:41	25°♊41'38	-1°26'35
	10401 Sep 14 13:28	0°♌		minimum elong	10404 Feb 10 17:56	25°♊36'35	1°25'16
				min. Earth dist.	10404 Feb 11 04:28	25°♊20'11	0.27967 AU
superior conj	10401 Sep 21 22:11	9°♌07'40	0°48'56	asc. node	10404 Feb 16 09:27	22°♊12'39	
minimum elong	10401 Sep 21 12:57	8°♌39'01	0°48'35	morning rise	10404 Feb 16 22:40	21°♊54'20	
max. Earth dist.	10401 Sep 24 03:02	11°♌51'22	1.72725 AU	direct	10404 Mar 02 17:24	17°♊34'46	
	10401 Oct 08 18:46	0°♍		greatest brilliancy	10404 Mar 13 15:51	19°♊47'23	-4.8m
evening rise	10401 Oct 28 20:50	24°♍48'04			10404 Mar 30 18:31	0°♋	
	10401 Nov 02 02:04	0°♋		morning max el	10404 Apr 21 22:45	19°♋57'05	46°44'24
	10401 Nov 26 12:21	0°♌			10404 May 01 16:11	0°♌	
desc. node	10401 Dec 21 05:38	0°♌09'37			10404 May 28 14:40	0°♍	
	10401 Dec 21 02:28	0°♍		desc. node	10404 Jun 07 06:20	11°♍15'08	
	10402 Jan 14 20:48	0°♋			10404 Jun 23 01:17	0°♎	
	10402 Feb 08 19:50	0°♌			10404 Jul 17 20:28	0°♏	
	10402 Mar 06 02:25	0°♍			10404 Aug 11 09:06	0°♐	
	10402 Apr 01 01:58	0°♎			10404 Sep 04 19:23	0°♑	
asc. node	10402 Apr 13 04:32	13°♎25'36		asc. node	10404 Sep 28 01:23	28°♑35'47	
	10402 Apr 28 23:19	0°♏			10404 Sep 29 04:45	0°♒	
evening max el	10402 Apr 29 01:43	0°♏06'03	46°52'49	morning set	10404 Oct 23 22:45	0°♒29'10	
	10402 Jun 06 04:23	0°♐			10404 Oct 23 13:17	0°♓	
greatest brilliancy	10402 Jun 08 11:11	0°♐53'59	-4.9m		10404 Nov 16 21:04	0°♈	
retrograde	10402 Jun 18 10:21	2°♐45'47					
	10402 Jun 30 03:36	30°♑		superior conj	10404 Nov 29 16:18	15°♈47'44	1°24'32
evening set	10402 Jul 04 12:57	27°♑43'08		minimum elong	10404 Nov 29 19:53	15°♈58'48	1°24'58
inferior conj	10402 Jul 09 03:54	24°♑56'26	5°56'55	max. Earth dist.	10404 Nov 29 19:00	15°♈56'04	1.73237 AU
minimum elong	10402 Jul 09 14:49	24°♑39'38	5°53'44		10404 Dec 11 04:42	0°♉	
min. Earth dist.	10402 Jul 09 07:39	24°♑50'40	0.27123 AU		10405 Jan 04 12:50	0°♊	
morning rise	10402 Jul 14 16:53	21°♑39'20		evening rise	10405 Jan 05 19:42	1°♊35'02	
direct	10402 Jul 29 21:38	17°♑09'50		desc. node	10405 Jan 17 17:47	16°♊15'45	
desc. node	10402 Aug 03 03:01	17°♑30'32			10405 Jan 28 21:33	0°♋	
greatest brilliancy	10402 Aug 08 18:55	18°♑58'44	-4.8m		10405 Feb 22 06:23	0°♌	
	10402 Aug 27 15:20	0°♒			10405 Mar 18 15:24	0°♍	
morning max el	10402 Sep 17 12:54	18°♒28'22	46°14'52		10405 Apr 12 02:22	0°♎	
	10402 Sep 28 23:13	0°♏			10405 May 06 19:44	0°♏	
	10402 Oct 26 13:57	0°♐		asc. node	10405 May 10 15:17	4°♏34'33	
	10402 Nov 21 17:02	0°♑			10405 Jun 01 03:56	0°♐	
asc. node	10402 Nov 24 01:07	2°♑44'03			10405 Jun 27 21:25	0°♑	
	10402 Dec 17 01:20	0°♈		evening max el	10405 Jul 10 04:30	12°♑46'49	46°38'09
	10403 Jan 10 21:44	0°♉			10405 Jul 28 22:05	0°♒	
	10403 Feb 04 10:21	0°♊		greatest brilliancy	10405 Aug 18 07:44	12°♒51'05	-4.8m
	10403 Feb 28 17:41	0°♋		retrograde	10405 Aug 29 09:39	15°♒07'46	
morning set	10403 Mar 15 16:40	18°♋34'04		desc. node	10405 Aug 30 13:52	15°♒06'06	
desc. node	10403 Mar 15 17:44	18°♋37'23		evening set	10405 Sep 13 16:41	10°♒33'29	
	10403 Mar 24 20:59	0°♌		min. Earth dist.	10405 Sep 18 20:46	7°♒29'03	0.28162 AU
	10403 Apr 17 20:59	0°♍		inferior conj	10405 Sep 19 16:15	6°♒58'53	-4°44'52
max. Earth dist.	10403 Apr 22 05:50	5°♍28'35	1.71492 AU	minimum elong	10405 Sep 19 06:58	7°♒13'16	4°42'25
				morning rise	10405 Sep 24 21:48	3°♒50'24	
superior conj	10403 Apr 24 20:44	8°♍45'48	-1°18'49		10405 Oct 03 16:25	30°♒	
minimum elong	10403 Apr 24 11:18	8°♍16'14	1°18'53	direct	10405 Oct 10 19:03	28°♒59'33	
	10403 May 11 18:44	0°♎			10405 Oct 18 04:17	0°♓	
evening rise	10403 Jun 04 03:47	29°♎21'42		greatest brilliancy	10405 Oct 20 10:37	0°♓40'47	-4.8m
	10403 Jun 04 15:59	0°♏		morning max el	10405 Nov 28 13:51	28°♓49'47	45°42'41
	10403 Jun 28 14:51	0°♐			10405 Nov 29 19:03	0°♔	
asc. node	10403 Jul 06 12:33	9°♐51'43		asc. node	10405 Dec 21 13:11	22°♔22'51	
	10403 Jul 22 17:20	0°♑			10405 Dec 28 12:46	0°♈	
	10403 Aug 16 01:30	0°♒			10406 Jan 23 21:27	0°♉	
	10403 Sep 09 18:20	0°♓			10406 Feb 18 04:41	0°♊	
	10403 Oct 05 01:18	0°♈			10406 Mar 14 22:01	0°♋	
desc. node	10403 Oct 26 08:56	24°♈25'19			10406 Apr 08 06:44	0°♌	
	10403 Oct 31 09:10	0°♉		desc. node	10406 Apr 12 06:54	4°♌58'05	
	10403 Nov 28 21:16	0°♊			10406 May 02 09:32	0°♍	
evening max el	10403 Dec 02 15:48	3°♊39'35	45°48'44		10406 May 26 08:32	0°♎	
	10404 Jan 06 01:01	0°♋		morning set	10406 May 30 04:00	4°♎46'54	
greatest brilliancy	10404 Jan 10 21:29	1°♋58'44	-4.8m		10406 Jun 19 05:59	0°♏	
retrograde	10404 Jan 20 12:12	3°♋40'28					
	10404 Feb 03 05:25	30°♋		superior conj	10406 Jul 09 04:05	24°♏59'27	-0°56'01
evening set	10404 Feb 04 12:25	29°♋19'08		minimum elong	10406 Jul 09 15:23	25°♏34'54	0°56'03

max. Earth dist.	10406 Jul 11 12:19	27°☾55'38	1.71579 AU		10409 Jan 30 14:32	0°☾	
	10406 Jul 13 04:01	0°♊		morning max el	10409 Feb 07 17:34	7°☾42'34	45°58'13
asc. node	10406 Aug 03 01:08	26°♊06'01			10409 Mar 01 02:01	0°♊	
	10406 Aug 06 04:10	0°♊			10409 Mar 27 11:52	0°♊	
evening rise	10406 Aug 17 17:12	14°♊22'26			10409 Apr 21 17:14	0°♊	
	10406 Aug 30 07:18	0°♊		desc. node	10409 May 09 19:46	22°♊01'13	
	10406 Sep 23 14:20	0°♊			10409 May 16 07:52	0°♊	
	10406 Oct 18 02:57	0°♊			10409 Jun 09 14:17	0°♊	
	10406 Nov 11 23:44	0°☾			10409 Jul 03 16:41	0°☾	
desc. node	10406 Nov 22 19:55	12°☾54'39			10409 Jul 27 18:07	0°♊	
	10406 Dec 07 08:03	0°♊		morning set	10409 Aug 12 03:54	19°♊11'42	
	10407 Jan 02 09:10	0°♊			10409 Aug 20 20:21	0°♊	
	10407 Jan 29 17:16	0°♊		asc. node	10409 Aug 30 14:06	12°♊06'22	
evening max el	10407 Feb 12 14:34	14°♊11'00	46°19'50		10409 Sep 14 00:01	0°♊	
	10407 Mar 01 23:50	0°♊					
asc. node	10407 Mar 15 20:10	9°♊52'42		superior conj	10409 Sep 19 14:12	6°♊55'55	0°46'05
greatest brilliancy	10407 Mar 24 13:20	14°♊00'31	-4.8m	minimum elong	10409 Sep 19 05:15	6°♊28'10	0°45'43
retrograde	10407 Apr 03 09:55	15°♊49'23		max. Earth dist.	10409 Sep 21 20:21	9°♊43'40	1.72689 AU
evening set	10407 Apr 20 00:55	10°♊26'38			10409 Oct 08 05:18	0°♊	
inferior conj	10407 Apr 24 01:45	7°♊59'59	8°12'25	evening rise	10409 Oct 26 13:57	22°♊40'18	
minimum elong	10407 Apr 23 16:35	8°♊14'07	8°10'48		10409 Nov 01 12:41	0°♊	
min. Earth dist.	10407 Apr 23 23:34	8°♊03'22	0.27260 AU		10409 Nov 25 23:09	0°☾	
morning rise	10407 Apr 27 08:16	6°♊00'22		desc. node	10409 Dec 20 07:31	29°☾41'33	
direct	10407 May 14 20:30	0°♊07'24			10409 Dec 20 13:36	0°♊	
greatest brilliancy	10407 May 24 13:57	1°♊55'25	-4.9m		10410 Jan 14 08:26	0°♊	
	10407 Jul 01 08:37	0°♊			10410 Feb 08 08:16	0°♊	
morning max el	10407 Jul 04 09:09	3°♊00'19	46°56'12		10410 Mar 05 16:11	0°♊	
desc. node	10407 Jul 05 17:59	4°♊23'08			10410 Mar 31 18:16	0°♊	
	10407 Jul 29 15:00	0°☾		asc. node	10410 Apr 12 06:27	12°♊41'16	
	10407 Aug 24 19:03	0°♊		evening max el	10410 Apr 26 13:59	27°♊39'18	46°52'19
	10407 Sep 19 04:40	0°♊			10410 Apr 28 22:27	0°☾	
	10407 Oct 14 05:18	0°♊		greatest brilliancy	10410 Jun 06 02:10	28°☾31'15	-4.9m
asc. node	10407 Oct 26 14:21	14°♊57'25			10410 Jun 11 16:37	0°♊	
	10407 Nov 07 23:50	0°♊		retrograde	10410 Jun 15 23:00	0°♊21'25	
	10407 Dec 02 13:27	0°♊			10410 Jun 20 03:36	30°♊☾	
	10407 Dec 26 23:24	0°☾		evening set	10410 Jul 02 05:28	25°☾14'02	
morning set	10408 Jan 01 13:19	6°☾52'32		inferior conj	10410 Jul 06 16:56	22°☾32'31	6°15'08
	10408 Jan 20 06:53	0°♊		minimum elong	10410 Jul 07 04:01	22°☾15'29	6°12'00
max. Earth dist.	10408 Feb 05 19:27	20°♊26'39	1.72679 AU	min. Earth dist.	10410 Jul 06 21:43	22°☾25'10	0.27116 AU
				morning rise	10410 Jul 12 02:38	19°☾19'42	
superior conj	10408 Feb 08 01:02	23°♊12'34	0°17'26	direct	10410 Jul 27 09:51	14°☾45'39	
minimum elong	10408 Feb 08 05:06	23°♊25'09	0°17'34	desc. node	10410 Aug 02 05:08	15°☾24'16	
	10408 Feb 13 12:32	0°♊		greatest brilliancy	10410 Aug 06 08:32	16°☾35'31	-4.8m
desc. node	10408 Feb 15 06:35	2°♊10'23			10410 Aug 28 04:57	0°♊	
	10408 Mar 08 16:16	0°♊		morning max el	10410 Sep 15 02:04	16°♊06'59	46°16'41
evening rise	10408 Mar 17 21:18	11°♊27'57			10410 Sep 28 18:14	0°♊	
	10408 Apr 01 18:03	0°♊			10410 Oct 26 04:35	0°♊	
	10408 Apr 25 18:50	0°♊			10410 Nov 21 05:48	0°♊	
	10408 May 19 20:44	0°☾		asc. node	10410 Nov 23 03:04	2°♊12'41	
asc. node	10408 Jun 07 02:33	22°☾35'41			10410 Dec 16 13:08	0°♊	
	10408 Jun 13 02:50	0°♊			10411 Jan 10 09:01	0°☾	
	10408 Jul 07 17:09	0°♊			10411 Feb 03 21:22	0°♊	
	10408 Aug 01 22:07	0°♊			10411 Feb 28 04:35	0°♊	
	10408 Aug 28 07:59	0°♊		morning set	10411 Mar 13 05:39	16°♊11'23	
evening max el	10408 Sep 19 05:16	22°♊47'43	45°59'27	desc. node	10411 Mar 14 19:40	18°♊09'33	
	10408 Sep 26 20:12	0°♊			10411 Mar 24 07:50	0°♊	
desc. node	10408 Sep 27 00:22	0°♊09'29			10411 Apr 17 07:50	0°♊	
greatest brilliancy	10408 Oct 28 03:35	21°♊28'49	-4.7m	max. Earth dist.	10411 Apr 19 15:29	2°♊54'22	1.71523 AU
retrograde	10408 Nov 07 09:33	23°♊22'39					
evening set	10408 Nov 25 16:29	17°♊06'37		superior conj	10411 Apr 22 08:23	6°♊17'48	-1°17'01
inferior conj	10408 Nov 28 21:58	15°♊05'44	-8°33'20	minimum elong	10411 Apr 21 22:22	5°♊46'24	1°17'02
minimum elong	10408 Nov 29 01:35	15°♊00'03	8°32'40		10411 May 11 05:37	0°♊	
min. Earth dist.	10408 Nov 29 00:45	15°♊01'21	0.29092 AU	evening rise	10411 Jun 01 14:36	26°♊50'46	
morning rise	10408 Dec 02 10:43	12°♊53'59			10411 Jun 04 02:56	0°☾	
direct	10408 Dec 20 10:30	6°♊49'21			10411 Jun 28 01:54	0°♊	
greatest brilliancy	10408 Dec 30 22:39	8°♊50'07	-4.7m	asc. node	10411 Jul 05 14:34	9°♊23'21	
asc. node	10409 Jan 18 00:31	19°♊24'41			10411 Jul 22 04:35	0°♊	

	10411 Aug 15 13:04	0°♄			10414 Jan 23 10:42	0°♄	
	10411 Sep 09 06:26	0°♍			10414 Feb 17 16:53	0°♍	
	10411 Oct 04 14:26	0°♎			10414 Mar 14 09:42	0°♎	
desc. node	10411 Oct 25 10:51	23°♎49'26			10414 Apr 07 18:07	0°♎	
	10411 Oct 31 00:31	0°♏		desc. node	10414 Apr 11 08:44	4°♎28'31	
	10411 Nov 28 18:51	0°♐			10414 May 01 20:46	0°♏	
evening max el	10411 Nov 30 06:14	1°♐25'07	45°48'21		10414 May 25 19:40	0°♐	
greatest brilliancy	10412 Jan 08 11:30	29°♐42'50	-4.8m	morning set	10414 May 27 15:04	2°♐16'08	
	10412 Jan 09 08:36	0°♑			10414 Jun 18 17:03	0°♑	
retrograde	10412 Jan 18 02:55	1°♑25'08					
	10412 Jan 26 12:55	30°♑		superior conj	10414 Jul 06 16:02	22°♑31'57	-0°58'56
evening set	10412 Feb 02 04:41	27°♑00'48		minimum elong	10414 Jul 07 03:32	23°♑08'00	0°58'59
inferior conj	10412 Feb 08 05:28	23°♑25'22	-1°48'10	max. Earth dist.	10414 Jul 09 00:55	25°♑30'14	1.71546 AU
minimum elong	10412 Feb 08 09:29	23°♑19'06	1°46'36		10414 Jul 12 15:02	0°♒	
min. Earth dist.	10412 Feb 08 19:47	23°♑03'06	0.28018 AU	asc. node	10414 Aug 02 03:04	25°♒37'46	
morning rise	10412 Feb 14 13:34	19°♑38'08			10414 Aug 05 15:10	0°♓	
asc. node	10412 Feb 15 11:31	19°♑08'43		evening rise	10414 Aug 15 07:19	12°♓02'52	
direct	10412 Feb 29 08:44	15°♑17'37			10414 Aug 29 18:20	0°♓	
greatest brilliancy	10412 Mar 11 08:03	17°♑31'28	-4.8m		10414 Sep 23 01:30	0°♍	
	10412 Mar 31 07:31	0°♒			10414 Oct 17 14:26	0°♎	
morning max el	10412 Apr 19 14:29	17°♒40'33	46°43'08		10414 Nov 11 11:47	0°♏	
	10412 May 01 11:13	0°♐		desc. node	10414 Nov 21 21:55	12°♏23'53	
	10412 May 28 05:41	0°♑			10414 Dec 06 21:06	0°♐	
desc. node	10412 Jun 06 08:20	10°♑39'11			10415 Jan 02 00:04	0°♑	
	10412 Jun 22 14:33	0°♒			10415 Jan 29 12:23	0°♐	
	10412 Jul 17 08:47	0°♓		evening max el	10415 Feb 10 05:10	11°♐52'16	46°18'20
	10412 Aug 10 20:49	0°♒			10415 Mar 02 12:36	0°♑	
	10412 Sep 04 06:43	0°♓		asc. node	10415 Mar 14 22:01	8°♑20'53	
asc. node	10412 Sep 27 03:11	28°♓07'16		greatest brilliancy	10415 Mar 22 02:15	11°♑36'23	-4.8m
	10412 Sep 28 15:48	0°♓		retrograde	10415 Mar 31 22:42	13°♑24'49	
morning set	10412 Oct 21 15:21	28°♓18'56		evening set	10415 Apr 17 09:42	8°♑08'51	
	10412 Oct 23 00:08	0°♍		inferior conj	10415 Apr 21 14:57	5°♑35'31	8°01'00
	10412 Nov 16 07:48	0°♎		minimum elong	10415 Apr 21 05:17	5°♑50'26	7°59'13
				min. Earth dist.	10415 Apr 21 12:41	5°♑39'01	0.27268 AU
superior conj	10412 Nov 27 09:43	13°♎40'16	1°25'06	morning rise	10415 Apr 25 00:52	3°♑30'35	
minimum elong	10412 Nov 27 12:36	13°♎49'10	1°25'32		10415 May 01 19:16	30°♑	
max. Earth dist.	10412 Nov 27 16:04	13°♎59'53	1.73236 AU	direct	10415 May 12 10:04	27°♑42'50	
	10412 Dec 10 15:26	0°♏		greatest brilliancy	10415 May 22 03:41	29°♑30'44	-4.9m
evening rise	10413 Jan 03 12:05	29°♏24'18			10415 May 23 10:54	0°♒	
	10413 Jan 03 23:40	0°♐			10415 Jul 01 08:18	0°♒	
desc. node	10413 Jan 16 19:50	15°♐48'20		morning max el	10415 Jul 01 22:09	0°♒34'45	46°56'44
	10413 Jan 28 08:36	0°♑		desc. node	10415 Jul 04 20:04	3°♒32'05	
	10413 Feb 21 17:46	0°♐			10415 Jul 29 07:42	0°♓	
	10413 Mar 18 03:11	0°♑			10415 Aug 24 09:09	0°♒	
	10413 Apr 11 14:43	0°♒			10415 Sep 18 17:24	0°♓	
	10413 May 06 09:01	0°♓			10415 Oct 13 17:11	0°♓	
asc. node	10413 May 09 17:10	3°♓59'59		asc. node	10415 Oct 25 16:15	14°♓28'02	
	10413 May 31 18:55	0°♒			10415 Nov 07 11:11	0°♍	
	10413 Jun 27 16:21	0°♓			10415 Dec 02 00:30	0°♎	
evening max el	10413 Jul 07 20:09	10°♓30'12	46°39'30		10415 Dec 26 10:18	0°♏	
	10413 Jul 29 10:23	0°♓		morning set	10415 Dec 30 06:16	4°♏43'21	
greatest brilliancy	10413 Aug 15 22:37	10°♓33'51	-4.8m		10416 Jan 19 17:45	0°♐	
retrograde	10413 Aug 27 01:35	12°♓51'11		max. Earth dist.	10416 Feb 03 09:55	18°♓09'15	1.72713 AU
desc. node	10413 Aug 29 15:52	12°♓42'59					
evening set	10413 Sep 11 05:45	8°♓19'50		superior conj	10416 Feb 05 16:16	20°♓57'28	0°20'51
min. Earth dist.	10413 Sep 16 11:28	5°♓13'10	0.28107 AU	minimum elong	10416 Feb 05 21:03	21°♓12'17	0°20'57
inferior conj	10413 Sep 17 07:04	4°♓42'50	-4°26'30		10416 Feb 12 23:25	0°♑	
minimum elong	10413 Sep 16 22:10	4°♓56'36	4°24'08	desc. node	10416 Feb 14 08:30	1°♑42'34	
morning rise	10413 Sep 22 15:15	1°♓31'04			10416 Mar 08 03:13	0°♐	
	10413 Sep 25 12:38	30°♓		evening rise	10416 Mar 15 11:12	9°♐07'28	
direct	10413 Oct 08 09:51	26°♓44'17			10416 Apr 01 05:08	0°♑	
greatest brilliancy	10413 Oct 18 00:26	28°♓25'07	-4.8m		10416 Apr 25 06:07	0°♒	
	10413 Oct 22 01:04	0°♓			10416 May 19 08:19	0°♓	
morning max el	10413 Nov 26 05:33	26°♓38'01	45°43'04	asc. node	10416 Jun 06 04:36	22°♓05'25	
	10413 Nov 29 16:52	0°♍			10416 Jun 12 14:50	0°♒	
asc. node	10413 Dec 20 15:11	21°♍43'33			10416 Jul 07 05:49	0°♓	
	10413 Dec 28 04:16	0°♎			10416 Aug 01 12:04	0°♓	

	10416 Aug 28 00:45	0°♌			10419 Mar 23 18:39	0°♑	
evening max el	10416 Sep 16 19:49	20°♌32'06	46°00'33		10419 Apr 16 18:40	0°♑	
desc. node	10416 Sep 26 02:18	29°♌14'39		max. Earth dist.	10419 Apr 17 02:36	0°♑24'51	1.71554 AU
	10416 Sep 26 22:37	0°♊					
greatest brilliancy	10416 Oct 25 19:18	19°♊18'24	-4.7m	superior conj	10419 Apr 19 20:12	3°♑50'24	-1°15'05
retrograde	10416 Nov 05 01:03	21°♊12'31		minimum elong	10419 Apr 19 09:41	3°♑17'27	1°15'03
evening set	10416 Nov 23 09:20	14°♊55'26			10419 May 10 16:28	0°♐	
inferior conj	10416 Nov 26 14:13	12°♊55'29	-8°36'28	evening rise	10419 May 30 01:44	24°♐20'58	
minimum elong	10416 Nov 26 17:05	12°♊50'59	8°35'53		10419 Jun 03 13:48	0°♐	
min. Earth dist.	10416 Nov 26 16:13	12°♊52'21	0.29097 AU		10419 Jun 27 12:52	0°♐	
morning rise	10416 Nov 30 00:50	10°♊46'50		asc. node	10419 Jul 04 16:30	8°♐55'10	
direct	10416 Dec 18 02:15	4°♊39'14			10419 Jul 21 15:43	0°♐	
greatest brilliancy	10416 Dec 28 14:14	6°♊39'13	-4.7m		10419 Aug 15 00:30	0°♐	
asc. node	10417 Jan 17 02:34	18°♊18'58			10419 Sep 08 18:26	0°♌	
	10417 Jan 30 15:42	0°♑			10419 Oct 04 03:33	0°♊	
morning max el	10417 Feb 05 07:59	5°♑26'21	45°56'59	desc. node	10419 Oct 24 12:52	23°♊13'48	
	10417 Feb 28 18:30	0°♑			10419 Oct 30 16:00	0°♑	
	10417 Mar 27 01:40	0°♋		evening max el	10419 Nov 27 21:42	29°♑13'36	45°48'05
	10417 Apr 21 05:47	0°♑			10419 Nov 28 17:09	0°♑	
desc. node	10417 May 08 21:46	21°♑30'27		greatest brilliancy	10420 Jan 06 01:24	27°♑27'46	-4.8m
	10417 May 15 19:46	0°♑		retrograde	10420 Jan 15 18:00	29°♑10'44	
	10417 Jun 09 01:46	0°♐		evening set	10420 Jan 30 21:19	24°♑43'31	
	10417 Jul 03 03:55	0°♐		inferior conj	10420 Feb 05 20:25	21°♑10'07	-2°09'20
	10417 Jul 27 05:10	0°♐		minimum elong	10420 Feb 06 01:11	21°♑02'42	2°07'32
morning set	10417 Aug 09 18:06	16°♐52'25		min. Earth dist.	10420 Feb 06 10:54	20°♑47'35	0.28066 AU
	10417 Aug 20 07:15	0°♐		morning rise	10420 Feb 12 04:26	17°♑23'14	
asc. node	10417 Aug 29 15:56	11°♐38'18		asc. node	10420 Feb 14 13:22	16°♑09'47	
	10417 Sep 13 10:49	0°♐		direct	10420 Feb 27 00:39	13°♑01'49	
				greatest brilliancy	10420 Mar 08 23:44	15°♑15'59	-4.8m
superior conj	10417 Sep 17 05:54	4°♐42'24	0°43'07		10420 Mar 31 16:48	0°♋	
minimum elong	10417 Sep 16 21:18	4°♐15'45	0°42'44	morning max el	10420 Apr 17 06:33	15°♋25'46	46°41'39
max. Earth dist.	10417 Sep 19 11:17	7°♐27'50	1.72652 AU		10420 May 01 05:31	0°♑	
	10417 Oct 07 16:03	0°♌			10420 May 27 20:16	0°♑	
evening rise	10417 Oct 24 06:52	20°♌31'15		desc. node	10420 Jun 05 10:18	10°♑04'00	
	10417 Oct 31 23:30	0°♊			10420 Jun 22 03:30	0°♐	
	10417 Nov 25 10:08	0°♑			10420 Jul 16 20:49	0°♐	
desc. node	10417 Dec 19 09:34	29°♑13'28			10420 Aug 10 08:15	0°♐	
	10417 Dec 20 00:54	0°♑			10420 Sep 03 17:44	0°♐	
	10418 Jan 13 20:17	0°♋		asc. node	10420 Sep 26 05:05	27°♐40'00	
	10418 Feb 07 20:57	0°♑			10420 Sep 28 02:32	0°♐	
	10418 Mar 05 06:13	0°♑		morning set	10420 Oct 19 08:09	26°♐10'13	
	10418 Mar 31 10:57	0°♐			10420 Oct 22 10:41	0°♌	
asc. node	10418 Apr 11 08:28	11°♐56'24			10420 Nov 15 18:17	0°♊	
evening max el	10418 Apr 24 02:27	25°♐13'08	46°51'56				
	10418 Apr 28 22:39	0°♐		superior conj	10420 Nov 25 03:12	11°♊33'49	1°25'32
greatest brilliancy	10418 Jun 03 16:38	26°♐08'21	-4.9m	minimum elong	10420 Nov 25 05:23	11°♊40'32	1°25'59
retrograde	10418 Jun 13 12:11	27°♐57'53		max. Earth dist.	10420 Nov 25 13:18	12°♊04'58	1.73236 AU
evening set	10418 Jun 29 22:11	22°♐45'18			10420 Dec 10 01:55	0°♑	
inferior conj	10418 Jul 04 06:10	20°♐09'08	6°32'24	evening rise	10421 Jan 01 04:25	27°♑14'14	
minimum elong	10418 Jul 04 17:19	19°♐52'00	6°29'21		10421 Jan 03 10:16	0°♑	
min. Earth dist.	10418 Jul 04 11:39	20°♐00'42	0.27113 AU	desc. node	10421 Jan 15 21:41	15°♑21'11	
morning rise	10418 Jul 09 12:27	17°♐01'08			10421 Jan 27 19:24	0°♋	
direct	10418 Jul 24 22:25	12°♐21'54			10421 Feb 21 04:51	0°♑	
desc. node	10418 Aug 01 07:04	13°♐23'25			10421 Mar 17 14:41	0°♑	
greatest brilliancy	10418 Aug 03 22:09	14°♐12'47	-4.8m		10421 Apr 11 02:49	0°♐	
	10418 Aug 28 14:59	0°♐			10421 May 05 22:05	0°♐	
morning max el	10418 Sep 12 16:20	13°♐48'11	46°18'19	asc. node	10421 May 08 19:14	3°♐26'35	
	10418 Sep 28 12:46	0°♐			10421 May 31 09:48	0°♐	
	10418 Oct 25 19:07	0°♐			10421 Jun 27 11:29	0°♐	
	10418 Nov 20 18:33	0°♌		evening max el	10421 Jul 05 12:22	8°♐15'49	46°40'46
asc. node	10418 Nov 22 05:05	1°♌41'23			10421 Jul 30 02:14	0°♐	
	10418 Dec 16 00:56	0°♊		greatest brilliancy	10421 Aug 13 14:04	8°♐18'29	-4.8m
	10419 Jan 09 20:17	0°♑		retrograde	10421 Aug 24 17:20	10°♐35'41	
	10419 Feb 03 08:20	0°♑		desc. node	10421 Aug 28 17:45	10°♐16'02	
	10419 Feb 27 15:25	0°♋		evening set	10421 Sep 08 19:07	6°♐07'25	
morning set	10419 Mar 10 18:54	13°♋49'42		min. Earth dist.	10421 Sep 14 02:21	2°♐58'30	0.28049 AU
desc. node	10419 Mar 13 21:27	17°♋41'27		inferior conj	10421 Sep 14 21:56	2°♐28'10	-4°07'48

minimum elong	10421 Sep 14 13:29	2° Ω 41'16	4°05'30	desc. node	10424 Feb 13 10:22	1° \mathcal{H} 15'50	
	10421 Sep 18 23:42	30° \mathcal{R} \mathcal{M}			10424 Mar 07 13:49	0° \mathcal{Y}	
morning rise	10421 Sep 20 08:36	29° \mathcal{M} 13'08		evening rise	10424 Mar 13 01:06	6° \mathcal{Y} 48'14	
direct	10421 Oct 06 00:54	24° \mathcal{M} 30'39			10424 Mar 31 15:54	0° \mathcal{B}	
greatest brilliancy	10421 Oct 15 14:07	26° \mathcal{M} 10'40	-4.8m		10424 Apr 24 17:06	0° Π	
	10421 Oct 24 01:48	0° Ω			10424 May 18 19:34	0° \mathcal{G}	
morning max el	10421 Nov 23 20:33	24° Ω 25'52	45°43'23	asc. node	10424 Jun 05 06:31	21° \mathcal{G} 35'48	
	10421 Nov 29 13:22	0° \mathcal{M}			10424 Jun 12 02:31	0° \mathcal{Q}	
asc. node	10421 Dec 19 17:09	21° \mathcal{M} 05'47			10424 Jul 06 18:13	0° \mathcal{M}	
	10421 Dec 27 19:07	0° \mathcal{A}			10424 Aug 01 01:48	0° Ω	
	10422 Jan 22 23:28	0° \mathcal{Z}			10424 Aug 27 17:32	0° \mathcal{M}	
	10422 Feb 17 04:41	0° \approx		evening max el	10424 Sep 14 09:56	18° \mathcal{M} 16'15	46°01'43
	10422 Mar 13 20:59	0° \mathcal{H}		desc. node	10424 Sep 25 04:24	28° \mathcal{M} 19'53	
	10422 Apr 07 05:07	0° \mathcal{Y}			10424 Sep 27 02:16	0° \mathcal{A}	
desc. node	10422 Apr 10 10:45	4° \mathcal{Y} 00'41		greatest brilliancy	10424 Oct 23 10:37	17° \mathcal{A} 08'20	-4.7m
	10422 May 01 07:35	0° \mathcal{B}		retrograde	10424 Nov 02 16:50	19° \mathcal{A} 03'28	
morning set	10422 May 25 02:01	29° \mathcal{B} 46'15		evening set	10424 Nov 21 01:46	12° \mathcal{A} 45'39	
	10422 May 25 06:24	0° Π		inferior conj	10424 Nov 24 06:25	10° \mathcal{A} 46'15	-8°38'49
	10422 Jun 18 03:44	0° \mathcal{G}		minimum elong	10424 Nov 24 08:30	10° \mathcal{A} 42'59	8°38'18
				min. Earth dist.	10424 Nov 24 07:33	10° \mathcal{A} 44'29	0.29098 AU
superior conj	10422 Jul 04 03:57	20° \mathcal{G} 05'23	-1°01'45	morning rise	10424 Nov 27 15:12	8° \mathcal{A} 40'26	
minimum elong	10422 Jul 04 15:33	20° \mathcal{G} 41'45	1°01'50	direct	10424 Dec 15 17:47	2° \mathcal{A} 30'04	
max. Earth dist.	10422 Jul 06 12:22	23° \mathcal{G} 02'14	1.71515 AU	greatest brilliancy	10424 Dec 26 06:02	4° \mathcal{A} 29'54	-4.7m
	10422 Jul 12 01:42	0° \mathcal{Q}		asc. node	10425 Jan 16 04:25	17° \mathcal{A} 15'46	
asc. node	10422 Aug 01 04:55	25° \mathcal{Q} 10'19			10425 Jan 30 15:07	0° \mathcal{Z}	
	10422 Aug 05 01:49	0° \mathcal{M}		morning max el	10425 Feb 02 22:43	3° \mathcal{Z} 12'15	45°55'50
evening rise	10422 Aug 12 21:17	9° \mathcal{M} 43'55			10425 Feb 28 10:15	0° \approx	
	10422 Aug 29 04:59	0° Ω			10425 Mar 26 14:58	0° \mathcal{H}	
	10422 Sep 22 12:16	0° \mathcal{M}			10425 Apr 20 17:59	0° \mathcal{Y}	
	10422 Oct 17 01:29	0° \mathcal{A}		desc. node	10425 May 07 23:45	21° \mathcal{Y} 00'28	
	10422 Nov 10 23:25	0° \mathcal{Z}			10425 May 15 07:21	0° \mathcal{B}	
desc. node	10422 Nov 20 23:57	11° \mathcal{Z} 54'32			10425 Jun 08 13:00	0° Π	
	10422 Dec 06 09:45	0° \approx			10425 Jul 02 14:53	0° \mathcal{G}	
	10423 Jan 01 14:42	0° \mathcal{H}			10425 Jul 26 15:55	0° \mathcal{Q}	
	10423 Jan 29 07:36	0° \mathcal{Y}		morning set	10425 Aug 07 08:00	14° \mathcal{Q} 32'55	
evening max el	10423 Feb 07 19:02	9° \mathcal{Y} 33'00	46°16'46		10425 Aug 19 17:51	0° \mathcal{M}	
	10423 Mar 03 05:02	0° \mathcal{B}		asc. node	10425 Aug 28 17:50	11° \mathcal{M} 11'21	
asc. node	10423 Mar 14 00:04	6° \mathcal{B} 47'11			10425 Sep 12 21:21	0° Ω	
greatest brilliancy	10423 Mar 19 15:44	9° \mathcal{B} 14'11	-4.8m				
retrograde	10423 Mar 29 11:13	11° \mathcal{B} 01'52		superior conj	10425 Sep 14 21:23	2° Ω 29'00	0°40'05
evening set	10423 Apr 14 18:38	5° \mathcal{B} 52'30		minimum elong	10425 Sep 14 13:12	2° Ω 03'37	0°39'41
inferior conj	10423 Apr 19 04:16	3° \mathcal{B} 12'44	7°48'41	max. Earth dist.	10425 Sep 17 01:52	5° Ω 11'43	1.72619 AU
minimum elong	10423 Apr 18 18:11	3° \mathcal{B} 28'21	7°46'44		10425 Oct 07 02:35	0° \mathcal{M}	
min. Earth dist.	10423 Apr 19 02:13	3° \mathcal{B} 15'54	0.27276 AU	evening rise	10425 Oct 21 23:48	18° \mathcal{M} 22'58	
morning rise	10423 Apr 22 17:40	1° \mathcal{B} 02'24			10425 Oct 31 10:05	0° \mathcal{A}	
	10423 Apr 24 12:54	30° \mathcal{R} \mathcal{Y}			10425 Nov 24 20:53	0° \mathcal{Z}	
direct	10423 May 09 23:14	25° \mathcal{Y} 19'49		desc. node	10425 Dec 18 11:26	28° \mathcal{Z} 45'38	
greatest brilliancy	10423 May 19 18:05	27° \mathcal{Y} 08'20	-4.9m		10425 Dec 19 11:57	0° \approx	
	10423 May 26 03:06	0° \mathcal{B}			10426 Jan 13 07:51	0° \mathcal{H}	
morning max el	10423 Jun 29 10:23	28° \mathcal{B} 08'30	46°57'10		10426 Feb 07 09:22	0° \mathcal{Y}	
	10423 Jul 01 06:29	0° Π			10426 Mar 04 20:06	0° \mathcal{B}	
desc. node	10423 Jul 03 22:01	2° Π 42'53			10426 Mar 31 03:44	0° Π	
	10423 Jul 28 23:39	0° \mathcal{G}		asc. node	10426 Apr 10 10:30	11° Π 11'25	
	10423 Aug 23 22:41	0° \mathcal{Q}		evening max el	10426 Apr 21 15:25	22° Π 48'45	46°51'21
	10423 Sep 18 05:39	0° \mathcal{M}			10426 Apr 28 23:58	0° \mathcal{G}	
	10423 Oct 13 04:38	0° Ω		greatest brilliancy	10426 Jun 01 06:12	23° \mathcal{G} 44'05	-4.9m
asc. node	10423 Oct 24 18:16	14° Ω 00'14		retrograde	10426 Jun 11 01:34	25° \mathcal{G} 33'39	
	10423 Nov 06 22:06	0° \mathcal{M}		evening set	10426 Jun 27 14:38	20° \mathcal{G} 15'38	
	10423 Dec 01 11:07	0° \mathcal{A}		inferior conj	10426 Jul 01 19:03	17° \mathcal{G} 44'51	6°49'03
	10423 Dec 25 20:46	0° \mathcal{Z}		minimum elong	10426 Jul 02 06:12	17° \mathcal{G} 27'46	6°46'08
morning set	10423 Dec 27 23:27	2° \mathcal{Z} 36'10		min. Earth dist.	10426 Jul 02 00:53	17° \mathcal{G} 35'54	0.27114 AU
	10424 Jan 19 04:11	0° \approx		morning rise	10426 Jul 06 21:45	14° \mathcal{G} 42'11	
max. Earth dist.	10424 Feb 01 02:00	15° \approx 58'08	1.72751 AU	direct	10426 Jul 22 11:16	9° \mathcal{G} 57'19	
				desc. node	10426 Jul 31 09:00	11° \mathcal{G} 26'46	
superior conj	10424 Feb 03 07:40	18° \approx 44'14	0°24'13	greatest brilliancy	10426 Aug 01 11:00	11° \mathcal{G} 48'47	-4.8m
minimum elong	10424 Feb 03 13:08	19° \approx 01'09	0°24'19		10426 Aug 28 22:18	0° \mathcal{Q}	
	10424 Feb 12 09:54	0° \mathcal{H}		morning max el	10426 Sep 10 06:57	11° \mathcal{Q} 30'24	46°20'00

	10426 Sep 28 06:44	0°♎			10429 May 31 00:56	0°♏	
	10426 Oct 25 09:21	0°♐			10429 Jun 27 07:19	0°♎	
	10426 Nov 20 07:05	0°♑		evening max el	10429 Jul 03 03:48	5°♎58'56	46°41'42
asc. node	10426 Nov 21 06:56	1°♑10'10			10429 Jul 31 00:13	0°♐	
	10426 Dec 15 12:33	0°♑		greatest brilliancy	10429 Aug 11 05:55	6°♐02'22	-4.8m
	10427 Jan 09 07:22	0°♒		retrograde	10429 Aug 22 08:22	8°♐18'32	
	10427 Feb 02 19:09	0°♓		desc. node	10429 Aug 27 19:53	7°♐42'02	
	10427 Feb 27 02:06	0°♈		evening set	10429 Sep 06 08:27	3°♐53'14	
morning set	10427 Mar 08 08:34	11°♈30'00		min. Earth dist.	10429 Sep 11 17:26	0°♐41'41	0.27993 AU
desc. node	10427 Mar 12 23:29	17°♈14'38		inferior conj	10429 Sep 12 12:36	0°♐11'58	-3°48'26
	10427 Mar 23 05:18	0°♑		minimum elong	10429 Sep 12 04:39	0°♐24'17	3°46'15
max. Earth dist.	10427 Apr 14 15:03	28°♑00'06	1.71589 AU		10429 Sep 12 20:19	30°♑♎	
	10427 Apr 16 05:20	0°♈		morning rise	10429 Sep 18 01:38	26°♑53'34	
				direct	10429 Oct 03 15:30	22°♑15'27	
superior conj	10427 Apr 17 08:10	1°♈24'02	-1°13'00	greatest brilliancy	10429 Oct 13 04:05	23°♑54'53	-4.8m
minimum elong	10427 Apr 16 21:17	0°♈49'55	1°12'56		10429 Oct 25 10:59	0°♐	
	10427 May 10 03:12	0°♑		morning max el	10429 Nov 21 10:25	22°♐09'50	45°43'49
evening rise	10427 May 27 12:45	21°♑51'04			10429 Nov 29 09:34	0°♑	
	10427 Jun 03 00:37	0°♒		asc. node	10429 Dec 18 19:05	20°♑27'21	
	10427 Jun 26 23:48	0°♏			10429 Dec 27 10:03	0°♑	
asc. node	10427 Jul 03 18:20	8°♏26'37			10430 Jan 22 12:25	0°♒	
	10427 Jul 21 02:52	0°♎			10430 Feb 16 16:42	0°♓	
	10427 Aug 14 11:59	0°♐			10430 Mar 13 08:30	0°♈	
	10427 Sep 08 06:31	0°♑			10430 Apr 06 16:21	0°♑	
	10427 Oct 03 16:47	0°♑		desc. node	10430 Apr 09 12:39	3°♑31'50	
desc. node	10427 Oct 23 14:53	22°♑37'47			10430 Apr 30 18:37	0°♈	
	10427 Oct 30 07:47	0°♒		morning set	10430 May 22 13:15	27°♈16'41	
evening max el	10427 Nov 25 13:29	27°♒02'45	45°47'48		10430 May 24 17:19	0°♑	
	10427 Nov 28 16:30	0°♓			10430 Jun 17 14:35	0°♒	
greatest brilliancy	10428 Jan 03 15:39	25°♓13'08	-4.8m				
retrograde	10428 Jan 13 08:54	26°♓56'07		superior conj	10430 Jul 01 16:16	17°♒39'37	-1°04'25
evening set	10428 Jan 28 14:05	22°♓26'11		minimum elong	10430 Jul 02 03:52	18°♒16'01	1°04'31
inferior conj	10428 Feb 03 11:19	18°♓54'52	-2°30'14	max. Earth dist.	10430 Jul 03 22:54	20°♒30'55	1.71484 AU
minimum elong	10428 Feb 03 16:48	18°♓46'20	2°28'15		10430 Jul 11 12:31	0°♏	
min. Earth dist.	10428 Feb 04 01:56	18°♓32'07	0.28108 AU	asc. node	10430 Jul 31 06:54	24°♏42'48	
morning rise	10428 Feb 09 18:59	15°♓08'27			10430 Aug 04 12:38	0°♎	
asc. node	10428 Feb 13 15:26	13°♓14'17		evening rise	10430 Aug 10 11:22	7°♎24'35	
direct	10428 Feb 24 16:37	10°♓46'16			10430 Aug 28 15:53	0°♐	
greatest brilliancy	10428 Mar 06 14:55	12°♓59'58	-4.8m		10430 Sep 21 23:20	0°♑	
	10428 Mar 31 23:25	0°♈			10430 Oct 16 12:54	0°♑	
morning max el	10428 Apr 14 21:51	13°♈09'25	46°40'14		10430 Nov 10 11:27	0°♒	
	10428 Apr 30 23:15	0°♑		desc. node	10430 Nov 20 01:48	11°♒23'29	
	10428 May 27 10:37	0°♈			10430 Dec 05 22:53	0°♓	
desc. node	10428 Jun 04 12:12	9°♈29'02			10431 Jan 01 05:54	0°♈	
	10428 Jun 21 16:21	0°♑			10431 Jan 29 03:50	0°♑	
	10428 Jul 16 08:50	0°♒		evening max el	10431 Feb 05 07:52	7°♑10'15	46°15'17
	10428 Aug 09 19:46	0°♏			10431 Mar 04 03:57	0°♈	
	10428 Sep 03 04:53	0°♎		asc. node	10431 Mar 13 02:08	5°♈08'43	
asc. node	10428 Sep 25 07:06	27°♎12'41		greatest brilliancy	10431 Mar 17 05:12	6°♈50'49	-4.8m
	10428 Sep 27 13:24	0°♐		retrograde	10431 Mar 26 23:44	8°♈38'00	
morning set	10428 Oct 17 00:32	23°♐59'46		evening set	10431 Apr 12 03:33	3°♈34'42	
	10428 Oct 21 21:22	0°♑		inferior conj	10431 Apr 16 17:32	0°♈48'52	7°35'35
	10428 Nov 15 04:52	0°♑		minimum elong	10431 Apr 16 07:04	1°♈05'03	7°33'27
				min. Earth dist.	10431 Apr 16 15:53	0°♈51'25	0.27284 AU
superior conj	10428 Nov 22 20:23	9°♑26'05	1°25'51		10431 Apr 18 01:09	30°♑♑	
minimum elong	10428 Nov 22 21:50	9°♑30'35	1°26'19	morning rise	10431 Apr 20 10:28	28°♑33'12	
max. Earth dist.	10428 Nov 23 09:37	10°♑06'54	1.73231 AU	direct	10431 May 07 11:59	22°♑55'25	
	10428 Dec 09 12:31	0°♒		greatest brilliancy	10431 May 17 08:48	24°♑45'16	-4.9m
evening rise	10428 Dec 29 20:33	25°♒03'05			10431 May 27 19:31	0°♈	
	10429 Jan 02 21:01	0°♓		morning max el	10431 Jun 26 22:55	25°♈42'08	46°57'52
desc. node	10429 Jan 14 23:34	14°♓53'41			10431 Jul 01 04:06	0°♑	
	10429 Jan 27 06:22	0°♈		desc. node	10431 Jul 02 23:55	1°♑53'38	
	10429 Feb 20 16:06	0°♑			10431 Jul 28 15:33	0°♒	
	10429 Mar 17 02:18	0°♈			10431 Aug 23 12:19	0°♏	
	10429 Apr 10 15:02	0°♑			10431 Sep 17 18:04	0°♎	
	10429 May 05 11:19	0°♒			10431 Oct 12 16:18	0°♐	
asc. node	10429 May 07 21:10	2°♒52'34		asc. node	10431 Oct 23 20:05	13°♐30'56	

	10431 Nov 06 09:20	0°♌	evening set	10434 Jun 25 07:08	17°♊44'39	
	10431 Nov 30 22:05	0°♊	inferior conj	10434 Jun 29 07:50	15°♊19'12	7°05'06
	10431 Dec 25 07:36	0°♊	minimum elong	10434 Jun 29 18:54	15°♊02'16	7°02'18
morning set	10431 Dec 25 16:24	0°♊27'07	min. Earth dist.	10434 Jun 29 13:39	15°♊10'18	0.27113 AU
	10432 Jan 18 14:59	0°♊	morning rise	10434 Jul 04 06:44	12°♊22'11	
max. Earth dist.	10432 Jan 29 19:54	13°♊51'36	direct	10434 Jul 20 00:33	7°♊31'37	
		1.72788 AU	greatest brilliancy	10434 Jul 29 23:09	9°♊22'47	-4.9m
superior conj	10432 Jan 31 22:52	16°♊29'15	desc. node	10434 Jul 30 11:05	9°♊33'38	
minimum elong	10432 Feb 01 04:59	16°♊48'12		10434 Aug 29 03:50	0°♊	
	10432 Feb 11 20:44	0°♋	morning max el	10434 Sep 07 21:49	9°♊12'16	46°21'46
desc. node	10432 Feb 12 12:20	0°♋48'21		10434 Sep 28 00:34	0°♋	
	10432 Mar 07 00:46	0°♋		10434 Oct 24 23:40	0°♋	
evening rise	10432 Mar 10 14:57	4°♋27'53		10434 Nov 19 19:45	0°♌	
	10432 Mar 31 03:02	0°♌	asc. node	10434 Nov 20 08:52	0°♌38'40	
	10432 Apr 24 04:28	0°♌		10434 Dec 15 00:19	0°♊	
	10432 May 18 07:13	0°♊		10435 Jan 08 18:40	0°♊	
asc. node	10432 Jun 04 08:24	21°♊04'53		10435 Feb 02 06:12	0°♊	
	10432 Jun 11 14:34	0°♊		10435 Feb 26 13:04	0°♋	
	10432 Jul 06 06:58	0°♋	morning set	10435 Mar 05 22:16	9°♋09'29	
	10432 Jul 31 15:56	0°♋	desc. node	10435 Mar 12 01:23	16°♋46'28	
	10432 Aug 27 10:53	0°♌		10435 Mar 22 16:16	0°♋	
evening max el	10432 Sep 12 00:23	16°♌00'37	max. Earth dist.	10435 Apr 12 01:31	25°♋28'16	1.71621 AU
desc. node	10432 Sep 24 06:20	27°♌22'54				
	10432 Sep 27 08:09	0°♊	superior conj	10435 Apr 14 20:00	28°♋56'22	-1°10'47
greatest brilliancy	10432 Oct 21 01:17	14°♊56'50	minimum elong	10435 Apr 14 08:49	28°♋21'21	1°10'39
retrograde	10432 Oct 31 09:05	16°♊53'48		10435 Apr 15 16:19	0°♌	
evening set	10432 Nov 18 17:56	10°♊35'28		10435 May 09 14:12	0°♌	
inferior conj	10432 Nov 21 22:41	8°♊36'09	evening rise	10435 May 24 23:37	19°♌19'47	
minimum elong	10432 Nov 21 23:59	8°♊34'07		10435 Jun 02 11:42	0°♊	
min. Earth dist.	10432 Nov 21 22:37	8°♊36'15		10435 Jun 26 11:01	0°♊	
morning rise	10432 Nov 25 06:01	6°♊32'45	asc. node	10435 Jul 02 20:21	7°♊57'54	
direct	10432 Dec 13 09:41	0°♊19'57		10435 Jul 20 14:17	0°♋	
greatest brilliancy	10432 Dec 23 21:46	2°♊19'40		10435 Aug 13 23:45	0°♋	
asc. node	10433 Jan 15 06:27	16°♊13'19		10435 Sep 07 18:52	0°♌	
	10433 Jan 30 13:59	0°♊		10435 Oct 03 06:18	0°♊	
morning max el	10433 Jan 31 14:24	0°♊59'25	desc. node	10435 Oct 22 16:47	22°♊00'47	
	10433 Feb 28 02:10	0°♊		10435 Oct 29 23:57	0°♊	
	10433 Mar 26 04:33	0°♋	evening max el	10435 Nov 23 05:11	24°♊51'34	45°47'34
	10433 Apr 20 06:28	0°♋		10435 Nov 28 17:02	0°♊	
desc. node	10433 May 07 01:33	20°♋29'00	greatest brilliancy	10436 Jan 01 06:33	22°♋59'34	-4.8m
	10433 May 14 19:16	0°♌	retrograde	10436 Jan 10 23:34	24°♋41'55	
	10433 Jun 08 00:33	0°♌	evening set	10436 Jan 26 07:13	20°♋09'15	
	10433 Jul 02 02:10	0°♊	inferior conj	10436 Feb 01 02:29	16°♋40'09	-2°50'42
	10433 Jul 26 02:59	0°♊	minimum elong	10436 Feb 01 08:38	16°♋30'34	2°48'31
morning set	10433 Aug 04 22:03	12°♊12'50	min. Earth dist.	10436 Feb 01 17:21	16°♋16'57	0.28156 AU
	10433 Aug 19 04:45	0°♋	morning rise	10436 Feb 07 09:34	12°♋54'12	
asc. node	10433 Aug 27 19:49	10°♋43'46	asc. node	10436 Feb 12 17:27	10°♋23'36	
	10433 Sep 12 08:08	0°♋	direct	10436 Feb 22 08:33	8°♋31'12	
			greatest brilliancy	10436 Mar 04 06:31	10°♋44'20	-4.8m
superior conj	10433 Sep 12 13:05	0°♋15'20		10436 Apr 01 04:11	0°♋	
minimum elong	10433 Sep 12 05:20	29°♋51'19	morning max el	10436 Apr 12 12:29	10°♋50'41	46°38'37
max. Earth dist.	10433 Sep 14 18:12	3°♋00'06		10436 Apr 30 16:53	0°♋	
	10433 Oct 06 13:21	0°♌		10436 May 27 01:04	0°♌	
evening rise	10433 Oct 19 17:05	16°♌15'01	desc. node	10436 Jun 03 14:10	8°♌53'41	
	10433 Oct 30 20:55	0°♊		10436 Jun 21 05:20	0°♌	
	10433 Nov 24 07:55	0°♊		10436 Jul 15 21:00	0°♊	
desc. node	10433 Dec 17 13:22	28°♊16'58		10436 Aug 09 07:24	0°♊	
	10433 Dec 18 23:22	0°♊		10436 Sep 02 16:09	0°♋	
	10434 Jan 12 19:50	0°♋	asc. node	10436 Sep 24 08:53	26°♋44'17	
	10434 Feb 06 22:16	0°♋		10436 Sep 27 00:23	0°♋	
	10434 Mar 04 10:31	0°♌	morning set	10436 Oct 14 17:01	21°♋49'14	
	10434 Mar 30 21:17	0°♌		10436 Oct 21 08:09	0°♌	
asc. node	10434 Apr 09 12:25	10°♌24'21		10436 Nov 14 15:32	0°♊	
evening max el	10434 Apr 19 05:13	20°♌25'28				
	10434 Apr 29 03:12	0°♊	superior conj	10436 Nov 20 13:54	7°♊19'10	1°26'03
greatest brilliancy	10434 May 29 19:13	21°♊18'11	minimum elong	10436 Nov 20 14:37	7°♊21'24	1°26'30
retrograde	10434 Jun 08 15:09	23°♊08'06	max. Earth dist.	10436 Nov 21 04:23	8°♊03'52	1.73221 AU

	10436 Dec 08 23:11	0°♁	greatest brilliancy	10439 May 14 23:36	22°♑23'36	-4.9m
evening rise	10436 Dec 27 13:04	22°♁53'04		10439 May 28 23:07	0°♁	
	10437 Jan 02 07:47	0°♁	morning max el	10439 Jun 24 12:31	23°♁18'57	46°58'13
desc. node	10437 Jan 14 01:36	14°♁26'35		10439 Jul 01 00:49	0°♁	
	10437 Jan 26 17:21	0°♁	desc. node	10439 Jul 02 02:00	1°♁05'58	
	10437 Feb 20 03:24	0°♑		10439 Jul 28 07:08	0°♁	
	10437 Mar 16 14:04	0°♁		10439 Aug 23 01:45	0°♁	
	10437 Apr 10 03:28	0°♁		10439 Sep 17 06:19	0°♁	
	10437 May 05 00:49	0°♁		10439 Oct 12 03:48	0°♁	
asc. node	10437 May 06 23:04	2°♁17'39	asc. node	10439 Oct 22 22:01	13°♁02'35	
	10437 May 30 16:29	0°♁		10439 Nov 05 20:21	0°♁	
	10437 Jun 27 03:59	0°♁		10439 Nov 30 08:50	0°♁	
evening max el	10437 Jun 30 18:09	3°♁38'43 46°42'44	morning set	10439 Dec 23 09:22	28°♁18'49	
	10437 Aug 01 07:00	0°♁		10439 Dec 24 18:12	0°♁	
greatest brilliancy	10437 Aug 08 22:14	3°♁46'15 -4.8m		10440 Jan 18 01:31	0°♁	
retrograde	10437 Aug 19 23:00	6°♁00'56	max. Earth dist.	10440 Jan 27 15:18	11°♁50'25 1.72818 AU	
desc. node	10437 Aug 26 21:48	5°♁02'22				
evening set	10437 Sep 03 21:54	1°♁38'15	superior conj	10440 Jan 29 14:18	14°♁15'51 0°30'49	
	10437 Sep 06 18:06	30°♁	minimum elong	10440 Jan 29 21:02	14°♁36'42 0°30'54	
min. Earth dist.	10437 Sep 09 08:49	28°♁23'59 0.27937 AU		10440 Feb 11 07:18	0°♁	
inferior conj	10437 Sep 10 03:12	27°♁55'28 -3°28'34	desc. node	10440 Feb 11 14:13	0°♁21'27	
minimum elong	10437 Sep 09 19:49	28°♁06'55 3°26'31		10440 Mar 06 11:25	0°♑	
morning rise	10437 Sep 15 18:29	24°♁33'45	evening rise	10440 Mar 08 05:17	2°♑10'05	
direct	10437 Oct 01 05:28	19°♁59'47		10440 Mar 30 13:50	0°♁	
greatest brilliancy	10437 Oct 10 18:34	21°♁39'17 -4.8m		10440 Apr 23 15:29	0°♁	
	10437 Oct 26 10:45	0°♁		10440 May 17 18:33	0°♁	
morning max el	10437 Nov 18 23:42	19°♁52'19 45°44'27	asc. node	10440 Jun 03 10:26	20°♁35'22	
	10437 Nov 29 05:06	0°♁		10440 Jun 11 02:22	0°♁	
asc. node	10437 Dec 17 21:03	19°♁49'35		10440 Jul 05 19:34	0°♁	
	10437 Dec 27 00:42	0°♁		10440 Jul 31 06:03	0°♁	
	10438 Jan 22 01:10	0°♁		10440 Aug 27 04:31	0°♁	
	10438 Feb 16 04:31	0°♁	evening max el	10440 Sep 09 15:33	13°♁47'02 46°04'13	
	10438 Mar 12 19:51	0°♁	desc. node	10440 Sep 23 08:17	26°♁24'55	
	10438 Apr 06 03:26	0°♑		10440 Sep 27 16:18	0°♁	
desc. node	10438 Apr 08 14:28	3°♑03'07	greatest brilliancy	10440 Oct 18 15:29	12°♁45'02 -4.8m	
	10438 Apr 30 05:35	0°♁	retrograde	10440 Oct 29 01:39	14°♁44'05	
morning set	10438 May 20 00:08	24°♁46'01	evening set	10440 Nov 16 09:35	8°♁25'47	
	10438 May 24 04:13	0°♁	inferior conj	10440 Nov 19 14:43	6°♁26'01 -8°41'20	
	10438 Jun 17 01:27	0°♁	minimum elong	10440 Nov 19 15:14	6°♁25'12 8°40'53	
			min. Earth dist.	10440 Nov 19 13:09	6°♁28'29 0.29100 AU	
superior conj	10438 Jun 29 04:05	15°♁12'14 -1°07'00	morning rise	10440 Nov 22 20:54	4°♁24'37	
minimum elong	10438 Jun 29 15:37	15°♁48'21 1°07'07		10440 Dec 01 12:07	30°♁	
max. Earth dist.	10438 Jul 01 04:55	17°♁45'20 1.71456 AU	direct	10440 Dec 11 01:45	28°♁10'03	
	10438 Jul 10 23:21	0°♁		10440 Dec 21 02:31	0°♁	
asc. node	10438 Jul 30 08:48	24°♁15'04	greatest brilliancy	10440 Dec 21 12:35	0°♁08'57 -4.7m	
	10438 Aug 03 23:26	0°♁	asc. node	10441 Jan 14 08:30	15°♁13'03	
evening rise	10438 Aug 08 00:50	5°♁03'22	morning max el	10441 Jan 29 06:39	28°♁49'01 45°53'34	
	10438 Aug 28 02:44	0°♁		10441 Jan 30 11:36	0°♁	
	10438 Sep 21 10:22	0°♁		10441 Feb 27 17:28	0°♁	
	10438 Oct 16 00:16	0°♁		10441 Mar 25 17:38	0°♁	
	10438 Nov 09 23:26	0°♁		10441 Apr 19 18:30	0°♑	
desc. node	10438 Nov 19 03:47	10°♁53'04	desc. node	10441 May 06 03:33	19°♑59'32	
	10438 Dec 05 11:56	0°♁		10441 May 14 06:43	0°♁	
	10438 Dec 31 21:07	0°♁		10441 Jun 07 11:39	0°♁	
	10439 Jan 29 00:24	0°♑		10441 Jul 01 13:01	0°♁	
evening max el	10439 Feb 02 20:43	4°♑48'40 46°14'00		10441 Jul 25 13:40	0°♁	
	10439 Mar 05 10:51	0°♁	morning set	10441 Aug 02 11:59	9°♁53'28	
asc. node	10439 Mar 12 03:58	3°♁27'32		10441 Aug 18 15:20	0°♁	
greatest brilliancy	10439 Mar 14 18:20	4°♁28'27 -4.8m	asc. node	10441 Aug 26 21:38	10°♁16'37	
retrograde	10439 Mar 24 12:46	6°♁15'56				
evening set	10439 Apr 09 12:47	1°♁18'00	superior conj	10441 Sep 10 04:17	28°♁00'55 0°33'46	
	10439 Apr 11 17:55	30°♁	minimum elong	10441 Sep 09 21:04	27°♁38'31 0°33'23	
inferior conj	10439 Apr 14 06:59	28°♑26'27 7°21'38		10441 Sep 11 18:39	0°♁	
minimum elong	10439 Apr 13 20:15	28°♑43'01 7°19'21	max. Earth dist.	10441 Sep 12 11:02	0°♁50'47 1.72550 AU	
min. Earth dist.	10439 Apr 14 05:33	28°♑28'40 0.27299 AU		10441 Oct 05 23:51	0°♁	
morning rise	10439 Apr 18 03:33	26°♑05'32	evening rise	10441 Oct 17 09:50	14°♁06'14	
direct	10439 May 05 01:11	20°♑32'19		10441 Oct 30 07:29	0°♁	

	10441 Nov 23 18:40	0° Z			10444 Jul 15 08:45	0° G	
desc. node	10441 Dec 16 15:23	27° Z 49'27			10444 Aug 08 18:38	0° Q	
	10441 Dec 18 10:29	0° \approx			10444 Sep 02 03:00	0° P	
	10442 Jan 12 07:33	0° H		asc. node	10444 Sep 23 10:48	26° P 17'29	
	10442 Feb 06 10:55	0° Y			10444 Sep 26 10:59	0° L	
	10442 Mar 04 00:44	0° B		morning set	10444 Oct 12 09:34	19° L 40'00	
	10442 Mar 30 14:44	0° II			10444 Oct 20 18:34	0° M	
asc. node	10442 Apr 08 14:27	9° II 38'14			10444 Nov 14 01:55	0° X	
evening max el	10442 Apr 16 19:48	18° II 05'39 46°50'14					
	10442 Apr 29 07:28	0° G		superior conj	10444 Nov 18 07:24	5° X 13'04 1°26'07	
greatest brilliancy	10442 May 27 08:32	18° G 54'49 -4.9m		minimum elong	10444 Nov 18 07:23	5° X 13'00 1°26'34	
retrograde	10442 Jun 06 04:57	20° G 44'40		max. Earth dist.	10444 Nov 18 21:36	5° X 56'50 1.73217 AU	
evening set	10442 Jun 22 23:53	15° G 16'08			10444 Dec 08 09:38	0° Z	
inferior conj	10442 Jun 26 20:52	12° G 55'50 7°20'13		evening rise	10444 Dec 25 05:23	20° Z 43'10	
minimum elong	10442 Jun 27 07:47	12° G 39'07 7°17'33			10445 Jan 01 18:23	0° \approx	
min. Earth dist.	10442 Jun 27 02:27	12° G 47'17 0.27112 AU		desc. node	10445 Jan 13 03:25	13° \approx 59'24	
morning rise	10442 Jul 01 15:46	10° G 04'31			10445 Jan 26 04:10	0° H	
direct	10442 Jul 17 14:07	5° G 08'29			10445 Feb 19 14:32	0° Y	
greatest brilliancy	10442 Jul 27 11:07	6° G 58'31 -4.9m			10445 Mar 16 01:39	0° B	
desc. node	10442 Jul 29 13:01	7° G 46'46			10445 Apr 09 15:45	0° II	
	10442 Aug 29 06:49	0° Q			10445 May 04 14:13	0° G	
morning max el	10442 Sep 05 12:19	6° Q 54'38 46°23'12		asc. node	10445 May 06 01:07	1° G 43'40	
	10442 Sep 27 17:33	0° P			10445 May 30 08:01	0° Q	
	10442 Oct 24 13:28	0° L			10445 Jun 27 01:04	0° P	
asc. node	10442 Nov 19 10:53	0° M 08'26		evening max el	10445 Jun 28 07:54	1° P 17'44 46°43'52	
	10442 Nov 19 08:01	0° M			10445 Aug 03 03:31	0° L	
	10442 Dec 14 11:45	0° X		greatest brilliancy	10445 Aug 06 14:40	1° L 31'09 -4.8m	
	10443 Jan 08 05:37	0° Z		retrograde	10445 Aug 17 13:39	3° L 44'41	
	10443 Feb 01 16:55	0° \approx		desc. node	10445 Aug 25 23:44	2° L 18'54	
	10443 Feb 25 23:41	0° H			10445 Aug 31 08:29	30° R P	
morning set	10443 Mar 03 11:54	6° H 50'00		evening set	10445 Sep 01 11:38	29° P 23'58	
desc. node	10443 Mar 11 03:10	16° H 19'07		min. Earth dist.	10445 Sep 07 00:28	26° P 07'18 0.27881 AU	
	10443 Mar 22 02:51	0° Y		inferior conj	10445 Sep 07 17:57	25° P 40'12 -3°08'21	
max. Earth dist.	10443 Apr 09 09:31	22° Y 49'55 1.71653 AU		minimum elong	10445 Sep 07 11:10	25° P 50'43 3°06'28	
				morning rise	10445 Sep 13 11:21	22° P 15'27	
superior conj	10443 Apr 12 07:57	26° Y 30'19 -1°08'26		direct	10445 Sep 28 19:07	17° P 45'10	
minimum elong	10443 Apr 11 20:33	25° Y 54'39 1°08'15		greatest brilliancy	10445 Oct 08 09:30	19° P 25'21 -4.8m	
	10443 Apr 15 02:55	0° B			10445 Oct 27 03:41	0° L	
	10443 May 09 00:50	0° II		morning max el	10445 Nov 16 13:19	17° L 36'26 45°45'04	
evening rise	10443 May 22 10:39	16° II 50'16			10445 Nov 28 23:44	0° M	
	10443 Jun 01 22:23	0° G		asc. node	10445 Dec 16 23:01	19° M 12'46	
	10443 Jun 25 21:49	0° Q			10445 Dec 26 14:59	0° X	
asc. node	10443 Jul 01 22:16	7° Q 30'10			10446 Jan 21 13:43	0° Z	
	10443 Jul 20 01:16	0° P			10446 Feb 15 16:16	0° \approx	
	10443 Aug 13 11:04	0° L			10446 Mar 12 07:08	0° H	
	10443 Sep 07 06:51	0° M			10446 Apr 05 14:27	0° Y	
	10443 Oct 02 19:35	0° X		desc. node	10446 Apr 07 16:30	2° Y 35'14	
desc. node	10443 Oct 21 18:49	21° X 24'38			10446 Apr 29 16:27	0° B	
	10443 Oct 29 16:08	0° Z		morning set	10446 May 17 10:50	22° B 15'05	
evening max el	10443 Nov 20 20:08	22° Z 39'07 45°47'13			10446 May 23 15:00	0° II	
	10443 Nov 28 18:38	0° \approx			10446 Jun 16 12:12	0° G	
greatest brilliancy	10443 Dec 29 21:56	20° \approx 46'55 -4.8m					
retrograde	10444 Jan 08 13:41	22° \approx 28'10		superior conj	10446 Jun 26 15:52	12° G 44'56 -1°09'26	
evening set	10444 Jan 24 00:21	17° \approx 52'30		minimum elong	10446 Jun 27 03:13	13° G 20'33 1°09'36	
inferior conj	10444 Jan 29 17:34	14° \approx 26'02 -3°10'54		max. Earth dist.	10446 Jun 28 09:42	14° G 56'09 1.71431 AU	
minimum elong	10444 Jan 30 00:20	14° \approx 15'27 3°08'33			10446 Jul 10 10:05	0° Q	
min. Earth dist.	10444 Jan 30 09:00	14° \approx 01'53 0.28202 AU		asc. node	10446 Jul 29 10:39	23° Q 47'22	
morning rise	10444 Feb 04 23:47	10° \approx 40'42			10446 Aug 03 10:10	0° P	
asc. node	10444 Feb 11 19:19	7° \approx 37'48		evening rise	10446 Aug 05 14:20	2° P 42'32	
direct	10444 Feb 19 23:47	6° \approx 16'35			10446 Aug 27 13:31	0° L	
greatest brilliancy	10444 Mar 01 22:21	8° \approx 29'38 -4.8m			10446 Sep 20 21:18	0° M	
	10444 Apr 01 06:51	0° H			10446 Oct 15 11:33	0° X	
morning max el	10444 Apr 10 02:17	8° H 30'43 46°37'05			10446 Nov 09 11:20	0° Z	
	10444 Apr 30 09:47	0° Y		desc. node	10446 Nov 18 05:49	10° Z 22'56	
	10444 May 26 15:01	0° B			10446 Dec 05 01:02	0° \approx	
desc. node	10444 Jun 02 16:08	8° B 19'33			10446 Dec 31 12:34	0° H	
	10444 Jun 20 17:53	0° II			10447 Jan 28 21:52	0° Y	

evening max el	10447 Jan 31 10:23	2° Υ 28'55	46°12'34		10449 Jul 25 00:41	0° Ω	
	10447 Mar 07 09:08	0° \mathcal{B}		morning set	10449 Jul 31 01:41	7° Ω 32'16	
asc. node	10447 Mar 11 06:03	1° \mathcal{B} 41'48			10449 Aug 18 02:13	0° \mathfrak{M}	
greatest brilliancy	10447 Mar 12 06:51	2° \mathcal{B} 04'37	-4.8m	asc. node	10449 Aug 25 23:33	9° \mathfrak{M} 48'56	
retrograde	10447 Mar 22 02:09	3° \mathcal{B} 52'54					
	10447 Apr 05 01:56	30° $\mathcal{K}\Upsilon$		superior conj	10449 Sep 07 19:21	25° \mathfrak{M} 45'08	0°30'31
evening set	10447 Apr 06 21:57	29° Υ 00'04		minimum elong	10449 Sep 07 12:43	25° \mathfrak{M} 24'32	0°30'07
inferior conj	10447 Apr 11 20:13	26° Υ 02'58	7°06'41	max. Earth dist.	10449 Sep 10 05:30	28° \mathfrak{M} 45'37	1.72513 AU
minimum elong	10447 Apr 11 09:18	26° Υ 19'48	7°04'17		10449 Sep 11 05:28	0° $\underline{\mathfrak{L}}$	
min. Earth dist.	10447 Apr 11 18:48	26° Υ 05'09	0.27313 AU		10449 Oct 05 10:39	0° \mathfrak{M}	
morning rise	10447 Apr 15 20:29	23° Υ 36'53		evening rise	10449 Oct 15 02:44	11° \mathfrak{M} 56'52	
direct	10447 May 02 14:39	18° Υ 08'19			10449 Oct 29 18:22	0° \mathcal{A}	
greatest brilliancy	10447 May 12 13:47	20° Υ 00'35	-4.9m		10449 Nov 23 05:44	0° \mathcal{Z}	
	10447 May 29 19:31	0° \mathcal{B}		desc. node	10449 Dec 15 17:15	27° \mathcal{Z} 20'37	
morning max el	10447 Jun 22 02:56	20° \mathcal{B} 57'38	46°58'38		10449 Dec 17 21:54	0° \approx	
	10447 Jun 30 20:57	0° \mathfrak{I}			10450 Jan 11 19:34	0° \mathcal{H}	
desc. node	10447 Jul 01 03:56	0° \mathfrak{I} 18'27			10450 Feb 05 23:54	0° Υ	
	10447 Jul 27 22:31	0° \mathfrak{E}			10450 Mar 03 15:24	0° \mathcal{B}	
	10447 Aug 22 15:06	0° Ω			10450 Mar 30 09:02	0° \mathfrak{I}	
	10447 Sep 16 18:32	0° \mathfrak{M}		asc. node	10450 Apr 07 16:27	8° \mathfrak{I} 49'58	
	10447 Oct 11 15:19	0° $\underline{\mathfrak{L}}$		evening max el	10450 Apr 14 10:03	15° \mathfrak{I} 43'35	46°49'16
asc. node	10447 Oct 22 00:01	12° $\underline{\mathfrak{L}}$ 34'21			10450 Apr 29 14:31	0° \mathfrak{E}	
	10447 Nov 05 07:25	0° \mathfrak{M}		greatest brilliancy	10450 May 24 22:16	16° \mathfrak{E} 29'45	-4.9m
	10447 Nov 29 19:36	0° \mathcal{A}		retrograde	10450 Jun 03 18:06	18° \mathfrak{E} 18'32	
morning set	10447 Dec 21 02:44	26° \mathcal{A} 11'41		evening set	10450 Jun 20 16:26	12° \mathfrak{E} 45'13	
	10447 Dec 24 04:50	0° \mathcal{Z}		inferior conj	10450 Jun 24 09:40	10° \mathfrak{E} 30'06	7°34'32
	10448 Jan 17 12:08	0° \approx		minimum elong	10450 Jun 24 20:18	10° \mathfrak{E} 13'46	7°32'04
max. Earth dist.	10448 Jan 25 11:57	9° \approx 52'51	1.72853 AU	min. Earth dist.	10450 Jun 24 15:20	10° \mathfrak{E} 21'24	0.27111 AU
				morning rise	10450 Jun 29 00:17	7° \mathfrak{E} 44'34	
superior conj	10448 Jan 27 05:59	12° \approx 02'52	0°34'01	direct	10450 Jul 15 03:11	2° \mathfrak{E} 42'55	
minimum elong	10448 Jan 27 13:16	12° \approx 25'24	0°34'05	greatest brilliancy	10450 Jul 24 23:16	4° \mathfrak{E} 32'05	-4.9m
desc. node	10448 Feb 10 16:07	29° \approx 54'08		desc. node	10450 Jul 28 14:57	6° \mathfrak{E} 01'45	
	10448 Feb 10 18:00	0° \mathcal{H}			10450 Aug 29 09:00	0° Ω	
evening rise	10448 Mar 05 19:34	29° \mathcal{H} 51'34		morning max el	10450 Sep 03 01:42	4° Ω 32'27	46°24'49
	10448 Mar 05 22:17	0° Υ			10450 Sep 27 10:41	0° \mathfrak{M}	
	10448 Mar 30 00:54	0° \mathcal{B}			10450 Oct 24 03:31	0° $\underline{\mathfrak{L}}$	
	10448 Apr 23 02:46	0° \mathfrak{I}		asc. node	10450 Nov 18 12:43	29° $\underline{\mathfrak{L}}$ 36'45	
	10448 May 17 06:08	0° \mathfrak{E}			10450 Nov 18 20:35	0° \mathfrak{M}	
asc. node	10448 Jun 02 12:21	20° \mathfrak{E} 04'39			10450 Dec 13 23:30	0° \mathcal{A}	
	10448 Jun 10 14:26	0° Ω			10451 Jan 07 16:54	0° \mathcal{Z}	
	10448 Jul 05 08:27	0° \mathfrak{M}			10451 Feb 01 03:57	0° \approx	
	10448 Jul 30 20:30	0° $\underline{\mathfrak{L}}$			10451 Feb 25 10:37	0° \mathcal{H}	
	10448 Aug 26 22:46	0° \mathfrak{M}		morning set	10451 Mar 01 02:10	4° \mathcal{H} 31'30	
evening max el	10448 Sep 07 07:48	11° \mathfrak{M} 35'40	46°05'35	desc. node	10451 Mar 10 05:13	15° \mathcal{H} 51'40	
desc. node	10448 Sep 22 10:23	25° \mathfrak{M} 25'35			10451 Mar 21 13:46	0° Υ	
	10448 Sep 28 03:37	0° \mathcal{A}		max. Earth dist.	10451 Apr 06 17:46	20° Υ 11'29	1.71692 AU
greatest brilliancy	10448 Oct 16 06:00	10° \mathcal{A} 33'28	-4.8m				
retrograde	10448 Oct 26 18:31	12° \mathcal{A} 34'16		superior conj	10451 Apr 09 20:23	24° Υ 04'52	-1°05'58
evening set	10448 Nov 14 01:06	6° \mathcal{A} 16'50		minimum elong	10451 Apr 09 08:54	23° Υ 28'54	1°05'46
inferior conj	10448 Nov 17 06:56	4° \mathcal{A} 15'56	-8°41'26		10451 Apr 14 13:51	0° \mathcal{B}	
minimum elong	10448 Nov 17 06:40	4° \mathcal{A} 16'21	8°41'01		10451 May 08 11:50	0° \mathfrak{I}	
min. Earth dist.	10448 Nov 17 03:41	4° \mathcal{A} 21'02	0.29091 AU	evening rise	10451 May 19 21:47	14° \mathfrak{I} 19'45	
morning rise	10448 Nov 20 12:17	2° \mathcal{A} 15'56			10451 Jun 01 09:31	0° \mathfrak{E}	
	10448 Nov 24 11:22	30° $\mathcal{K}\mathfrak{M}$			10451 Jun 25 09:06	0° Ω	
direct	10448 Dec 08 18:19	26° \mathfrak{M} 00'27		asc. node	10451 Jul 01 00:07	7° Ω 00'40	
greatest brilliancy	10448 Dec 19 02:53	27° \mathfrak{M} 57'41	-4.7m		10451 Jul 19 12:47	0° \mathfrak{M}	
	10448 Dec 23 21:31	0° \mathcal{A}			10451 Aug 12 22:57	0° $\underline{\mathfrak{L}}$	
asc. node	10449 Jan 13 10:20	14° \mathcal{A} 13'36			10451 Sep 06 19:23	0° \mathfrak{M}	
morning max el	10449 Jan 26 22:58	26° \mathcal{A} 38'36	45°52'24		10451 Oct 02 09:27	0° \mathcal{A}	
	10449 Jan 30 08:32	0° \mathcal{Z}		desc. node	10451 Oct 20 20:49	20° \mathcal{A} 46'47	
	10449 Feb 27 08:42	0° \approx			10451 Oct 29 09:05	0° \mathcal{Z}	
	10449 Mar 25 06:52	0° \mathcal{H}		evening max el	10451 Nov 18 10:21	20° \mathcal{Z} 23'49	45°47'02
	10449 Apr 19 06:48	0° Υ			10451 Nov 28 22:15	0° \approx	
desc. node	10449 May 05 05:31	19° Υ 28'53		greatest brilliancy	10451 Dec 27 13:40	18° \approx 34'01	-4.7m
	10449 May 13 18:31	0° \mathcal{B}		retrograde	10452 Jan 06 03:56	20° \approx 14'21	
	10449 Jun 06 23:07	0° \mathfrak{I}		evening set	10452 Jan 21 17:48	15° \approx 35'12	
	10449 Jul 01 00:14	0° \mathfrak{E}		inferior conj	10452 Jan 27 08:54	12° \approx 11'47	-3°30'33

minimum elong	10452 Jan 27 16:15	12° \approx 00'17	3°28'03			10454 Jul 09 20:57	0° Ω	
min. Earth dist.	10452 Jan 28 01:07	11° \approx 46'24	0.28247 AU	asc. node		10454 Jul 28 12:38	23° Ω 19'40	
morning rise	10452 Feb 02 14:05	8° \approx 27'25				10454 Aug 02 21:03	0° Π	
asc. node	10452 Feb 10 21:23	4° \approx 56'35		evening rise		10454 Aug 03 04:01	0° Π 21'42	
direct	10452 Feb 17 14:56	4° \approx 01'38				10454 Aug 27 00:29	0° Ω	
greatest brilliancy	10452 Feb 28 14:56	6° \approx 15'27	-4.8m			10454 Sep 20 08:29	0° Π	
	10452 Apr 01 08:22	0° X				10454 Oct 14 23:06	0° X	
morning max el	10452 Apr 07 16:15	6° X 10'29	46°35'41			10454 Nov 08 23:33	0° Ξ	
	10452 Apr 30 02:37	0° Υ		desc. node		10454 Nov 17 07:40	9° Ξ 51'26	
	10452 May 26 05:06	0° B				10454 Dec 04 14:28	0° \approx	
desc. node	10452 Jun 01 18:02	7° B 44'35				10454 Dec 31 04:27	0° X	
	10452 Jun 20 06:42	0° Π				10455 Jan 28 20:18	0° Υ	
	10452 Jul 14 20:51	0° Ξ		evening max el		10455 Jan 29 01:02	0° Υ 11'32	46°11'18
	10452 Aug 08 06:17	0° Ω		greatest brilliancy		10455 Mar 09 19:12	29° Υ 40'57	-4.8m
	10452 Sep 01 14:19	0° Π		asc. node		10455 Mar 10 08:05	29° Υ 52'03	
asc. node	10452 Sep 22 12:49	25° Π 49'34				10455 Mar 10 17:43	0° B	
	10452 Sep 25 22:01	0° Ω		retrograde		10455 Mar 19 16:01	1° B 30'12	
morning set	10452 Oct 10 01:46	17° Ω 28'12				10455 Mar 28 05:45	30° R Υ	
	10452 Oct 20 05:26	0° Π		evening set		10455 Apr 04 07:32	26° Υ 42'22	
	10452 Nov 13 12:41	0° X		inferior conj		10455 Apr 09 09:37	23° Υ 39'49	6°51'09
				minimum elong		10455 Apr 08 22:35	23° Υ 56'49	6°48'37
superior conj	10452 Nov 16 00:47	3° X 05'24	1°26'03	min. Earth dist.		10455 Apr 09 08:00	23° Υ 42'19	0.27325 AU
minimum elong	10452 Nov 16 00:02	3° X 03'06	1°26'30	morning rise		10455 Apr 13 13:30	21° Υ 08'38	
max. Earth dist.	10452 Nov 16 14:38	3° X 48'09	1.73210 AU	direct		10455 Apr 30 04:44	15° Υ 44'51	
	10452 Dec 07 20:26	0° Ξ		greatest brilliancy		10455 May 10 03:40	17° Υ 37'25	-4.9m
evening rise	10452 Dec 22 21:53	18° Ξ 32'46				10455 May 30 10:39	0° B	
	10453 Jan 01 05:19	0° \approx		morning max el		10455 Jun 19 18:03	18° B 38'12	46°58'58
desc. node	10453 Jan 12 05:21	13° \approx 31'28		desc. node		10455 Jun 30 05:52	29° B 31'43	
	10453 Jan 25 15:20	0° X				10455 Jun 30 16:28	0° Π	
	10453 Feb 19 02:00	0° Υ				10455 Jul 27 13:39	0° Ξ	
	10453 Mar 15 13:34	0° B				10455 Aug 22 04:19	0° Ω	
	10453 Apr 09 04:20	0° Π				10455 Sep 16 06:41	0° Π	
	10453 May 04 03:58	0° Ξ				10455 Oct 11 02:49	0° Ω	
asc. node	10453 May 05 03:03	1° Ξ 08'25		asc. node		10455 Oct 21 01:49	12° Ω 05'26	
	10453 May 30 00:04	0° Ω				10455 Nov 04 18:31	0° Π	
evening max el	10453 Jun 25 21:22	28° Ω 55'04	46°44'46			10455 Nov 29 06:28	0° X	
	10453 Jun 26 23:20	0° Π		morning set		10455 Dec 18 19:55	24° X 03'43	
greatest brilliancy	10453 Aug 04 06:28	29° Π 13'37	-4.8m			10455 Dec 23 15:33	0° Ξ	
	10453 Aug 06 10:49	0° Ω				10456 Jan 16 22:49	0° \approx	
retrograde	10453 Aug 15 04:21	1° Ω 26'42		max. Earth dist.		10456 Jan 23 07:09	7° \approx 50'44	1.72881 AU
	10453 Aug 23 15:13	30° R Π						
desc. node	10453 Aug 25 01:51	29° Π 28'21		superior conj		10456 Jan 24 21:31	9° \approx 49'24	0°37'10
evening set	10453 Aug 30 01:19	27° Π 07'18		minimum elong		10456 Jan 25 05:19	10° \approx 13'28	0°37'14
min. Earth dist.	10453 Sep 04 15:55	23° Π 48'36	0.27833 AU	desc. node		10456 Feb 09 18:06	29° \approx 27'04	
inferior conj	10453 Sep 05 08:29	23° Π 22'59	-2°47'37			10456 Feb 10 04:44	0° X	
minimum elong	10453 Sep 05 02:21	23° Π 32'28	2°45'53	evening rise		10456 Mar 03 09:48	27° X 32'59	
morning rise	10453 Sep 11 03:58	19° Π 55'31				10456 Mar 05 09:08	0° Υ	
direct	10453 Sep 26 08:34	15° Π 28'19				10456 Mar 29 11:57	0° B	
greatest brilliancy	10453 Oct 06 00:29	17° Π 09'40	-4.8m			10456 Apr 22 14:03	0° Π	
	10453 Oct 27 17:01	0° Ω				10456 May 16 17:43	0° Ξ	
morning max el	10453 Nov 14 03:49	15° Ω 21'15	45°45'52	asc. node		10456 Jun 01 14:14	19° Ξ 33'53	
	10453 Nov 28 18:22	0° Π				10456 Jun 10 02:30	0° Ω	
asc. node	10453 Dec 16 00:57	18° Π 35'06				10456 Jul 04 21:21	0° Π	
	10453 Dec 26 05:28	0° X				10456 Jul 30 11:03	0° Ω	
	10454 Jan 21 02:29	0° Ξ				10456 Aug 26 17:21	0° Π	
	10454 Feb 15 04:11	0° \approx		evening max el		10456 Sep 05 00:15	9° Π 25'01	46°06'48
	10454 Mar 11 18:36	0° X		desc. node		10456 Sep 21 12:19	24° Π 24'44	
	10454 Apr 05 01:40	0° Υ				10456 Sep 28 18:44	0° X	
desc. node	10454 Apr 06 18:22	2° Υ 06'19		greatest brilliancy		10456 Oct 13 20:45	8° X 22'14	-4.8m
	10454 Apr 29 03:31	0° B		retrograde		10456 Oct 24 10:53	10° X 24'06	
morning set	10454 May 14 21:56	19° B 44'50		evening set		10456 Nov 11 16:10	4° X 08'20	
	10454 May 23 01:58	0° Π		inferior conj		10456 Nov 14 23:00	2° X 05'42	-8°40'52
	10454 Jun 15 23:06	0° Ξ		minimum elong		10456 Nov 14 21:57	2° X 07'22	8°40'25
				min. Earth dist.		10456 Nov 14 18:13	2° X 13'14	0.29082 AU
superior conj	10454 Jun 24 03:56	10° Ξ 18'03	-1°11'43	morning rise		10456 Nov 18 03:50	0° X 06'27	
minimum elong	10454 Jun 24 15:03	10° Ξ 52'55	1°11'55			10456 Nov 18 08:06	30° R Π	
max. Earth dist.	10454 Jun 25 17:24	12° Ξ 15'36	1.71410 AU	direct		10456 Dec 06 10:51	23° Π 50'48	

greatest brilliancy	10456 Dec 16 16:56	25° \mathbb{M} 45'54	-4.7m		10459 Jul 18 23:59	0° \mathbb{M}	
	10456 Dec 25 14:09	0° \mathbb{A}			10459 Aug 12 10:31	0° \mathbb{B}	
asc. node	10457 Jan 12 12:24	13° \mathbb{A} 15'52			10459 Sep 06 07:40	0° \mathbb{M}	
morning max el	10457 Jan 24 14:41	24° \mathbb{A} 26'44	45°51'16		10459 Oct 01 23:07	0° \mathbb{A}	
	10457 Jan 30 04:45	0° \mathbb{B}		desc. node	10459 Oct 19 22:45	20° \mathbb{A} 09'33	
	10457 Feb 26 23:42	0° \approx			10459 Oct 29 01:59	0° \mathbb{B}	
	10457 Mar 24 19:54	0° \mathbb{H}		evening max el	10459 Nov 16 00:07	18° \mathbb{B} 08'41	45°46'59
	10457 Apr 18 18:54	0° \mathbb{Y}			10459 Nov 29 03:09	0° \approx	
desc. node	10457 May 04 07:21	18° \mathbb{Y} 58'32		greatest brilliancy	10459 Dec 25 04:44	16° \approx 21'39	-4.7m
	10457 May 13 06:05	0° \mathbb{B}		retrograde	10460 Jan 03 18:23	18° \approx 01'57	
	10457 Jun 06 10:21	0° \mathbb{I}		evening set	10460 Jan 19 11:15	13° \approx 18'45	
	10457 Jun 30 11:14	0° \mathbb{B}		inferior conj	10460 Jan 25 00:12	9° \approx 58'37	-3°49'45
	10457 Jul 24 11:31	0° \mathbb{Q}		minimum elong	10460 Jan 25 08:04	9° \approx 46'17	3°47'08
morning set	10457 Jul 28 15:26	5° \mathbb{Q} 11'45		min. Earth dist.	10460 Jan 25 17:03	9° \approx 32'15	0.28297 AU
	10457 Aug 17 12:55	0° \mathbb{M}		morning rise	10460 Jan 31 04:13	6° \approx 15'43	
asc. node	10457 Aug 25 01:31	9° \mathbb{M} 21'56		asc. node	10460 Feb 09 23:24	2° \approx 21'26	
				direct	10460 Feb 15 06:06	1° \approx 47'35	
superior conj	10457 Sep 05 10:31	23° \mathbb{M} 30'14	0°27'12	greatest brilliancy	10460 Feb 26 07:47	4° \approx 02'44	-4.8m
minimum elong	10457 Sep 05 04:31	23° \mathbb{M} 11'33	0°26'48		10460 Apr 01 08:18	0° \mathbb{H}	
max. Earth dist.	10457 Sep 08 00:10	26° \mathbb{M} 41'38	1.72472 AU	morning max el	10460 Apr 05 06:55	3° \mathbb{H} 52'48	46°34'11
	10457 Sep 10 16:04	0° \mathbb{B}			10460 Apr 29 18:53	0° \mathbb{Y}	
	10457 Oct 04 21:14	0° \mathbb{M}			10460 May 25 18:47	0° \mathbb{B}	
evening rise	10457 Oct 12 19:42	9° \mathbb{M} 48'25		desc. node	10460 May 31 20:01	7° \mathbb{B} 10'51	
	10457 Oct 29 05:01	0° \mathbb{A}			10460 Jun 19 19:08	0° \mathbb{I}	
	10457 Nov 22 16:37	0° \mathbb{B}			10460 Jul 14 08:34	0° \mathbb{B}	
desc. node	10457 Dec 14 19:13	26° \mathbb{B} 52'33			10460 Aug 07 17:32	0° \mathbb{Q}	
	10457 Dec 17 09:11	0° \approx			10460 Sep 01 01:13	0° \mathbb{M}	
	10458 Jan 11 07:30	0° \mathbb{H}		asc. node	10460 Sep 21 14:35	25° \mathbb{M} 22'06	
	10458 Feb 05 12:49	0° \mathbb{Y}			10460 Sep 25 08:40	0° \mathbb{B}	
	10458 Mar 03 06:04	0° \mathbb{B}		morning set	10460 Oct 07 17:52	15° \mathbb{B} 17'09	
	10458 Mar 30 03:33	0° \mathbb{I}			10460 Oct 19 15:55	0° \mathbb{M}	
asc. node	10458 Apr 06 18:23	8° \mathbb{I} 01'31			10460 Nov 12 23:06	0° \mathbb{A}	
evening max el	10458 Apr 11 23:30	13° \mathbb{I} 20'13	46°48'25				
	10458 Apr 29 23:46	0° \mathbb{B}		superior conj	10460 Nov 13 18:11	0° \mathbb{A} 58'54	1°25'53
greatest brilliancy	10458 May 22 12:26	14° \mathbb{B} 06'13	-4.9m	minimum elong	10460 Nov 13 16:42	0° \mathbb{A} 54'20	1°26'18
retrograde	10458 Jun 01 06:40	15° \mathbb{B} 53'31		max. Earth dist.	10460 Nov 14 08:21	1° \mathbb{A} 42'36	1.73201 AU
evening set	10458 Jun 18 09:00	10° \mathbb{B} 15'26			10460 Dec 07 06:53	0° \mathbb{B}	
inferior conj	10458 Jun 21 22:35	8° \mathbb{B} 05'32	7°48'01	evening rise	10460 Dec 20 14:31	16° \mathbb{B} 24'02	
minimum elong	10458 Jun 22 08:50	7° \mathbb{B} 49'45	7°45'44		10460 Dec 31 15:53	0° \approx	
min. Earth dist.	10458 Jun 22 04:33	7° \mathbb{B} 56'20	0.27112 AU	desc. node	10461 Jan 11 07:22	13° \approx 04'59	
morning rise	10458 Jun 26 08:45	5° \mathbb{B} 25'57			10461 Jan 25 02:07	0° \mathbb{H}	
direct	10458 Jul 12 15:52	0° \mathbb{B} 18'20			10461 Feb 18 13:08	0° \mathbb{Y}	
greatest brilliancy	10458 Jul 22 12:06	2° \mathbb{B} 07'16	-4.9m		10461 Mar 15 01:12	0° \mathbb{B}	
desc. node	10458 Jul 27 17:05	4° \mathbb{B} 21'49			10461 Apr 08 16:44	0° \mathbb{I}	
	10458 Aug 29 09:30	0° \mathbb{Q}			10461 May 03 17:36	0° \mathbb{B}	
morning max el	10458 Aug 31 14:31	2° \mathbb{Q} 09'29	46°26'28	asc. node	10461 May 04 04:58	0° \mathbb{B} 33'38	
	10458 Sep 27 03:09	0° \mathbb{M}			10461 May 29 16:07	0° \mathbb{Q}	
	10458 Oct 23 17:07	0° \mathbb{B}		evening max el	10461 Jun 23 11:21	26° \mathbb{Q} 34'35	46°45'54
asc. node	10458 Nov 17 14:41	29° \mathbb{B} 06'31			10461 Jun 26 22:12	0° \mathbb{M}	
	10458 Nov 18 08:45	0° \mathbb{M}		greatest brilliancy	10461 Aug 01 21:35	26° \mathbb{M} 55'59	-4.8m
	10458 Dec 13 10:52	0° \mathbb{A}		retrograde	10461 Aug 12 19:24	29° \mathbb{M} 09'20	
	10459 Jan 07 03:51	0° \mathbb{B}		desc. node	10461 Aug 24 03:46	26° \mathbb{M} 33'53	
	10459 Jan 31 14:42	0° \approx		evening set	10461 Aug 27 15:04	24° \mathbb{M} 50'50	
	10459 Feb 24 21:18	0° \mathbb{H}		inferior conj	10461 Sep 02 22:50	21° \mathbb{M} 06'11	-2°26'25
morning set	10459 Feb 26 16:12	2° \mathbb{H} 13'01		minimum elong	10461 Sep 02 17:25	21° \mathbb{M} 14'34	2°24'54
desc. node	10459 Mar 09 07:06	15° \mathbb{H} 24'22		min. Earth dist.	10461 Sep 02 06:56	21° \mathbb{M} 30'44	0.27784 AU
	10459 Mar 21 00:26	0° \mathbb{Y}		morning rise	10461 Sep 08 20:21	17° \mathbb{M} 36'23	
max. Earth dist.	10459 Apr 04 02:03	17° \mathbb{Y} 33'58	1.71731 AU	direct	10461 Sep 23 22:15	13° \mathbb{M} 11'54	
				greatest brilliancy	10461 Oct 03 14:57	14° \mathbb{M} 54'13	-4.8m
superior conj	10459 Apr 07 08:33	21° \mathbb{Y} 39'23	-1°03'23		10461 Oct 28 02:26	0° \mathbb{B}	
minimum elong	10459 Apr 06 21:02	21° \mathbb{Y} 03'22	1°03'07	morning max el	10461 Nov 11 19:05	13° \mathbb{B} 08'59	45°46'41
	10459 Apr 14 00:32	0° \mathbb{B}			10461 Nov 28 12:07	0° \mathbb{M}	
	10459 May 07 22:34	0° \mathbb{I}		asc. node	10461 Dec 15 02:56	17° \mathbb{M} 59'01	
evening rise	10459 May 17 08:43	11° \mathbb{I} 49'41			10461 Dec 25 19:24	0° \mathbb{A}	
	10459 May 31 20:19	0° \mathbb{B}			10462 Jan 20 14:49	0° \mathbb{B}	
	10459 Jun 24 20:04	0° \mathbb{Q}			10462 Feb 14 15:42	0° \approx	
asc. node	10459 Jun 30 02:09	6° \mathbb{Q} 32'45			10462 Mar 11 05:41	0° \mathbb{H}	

	10462 Apr 04 12:31	0°♈	retrograde	10464 Oct 22 02:47	8°♊13'58	
desc. node	10462 Apr 05 20:13	1°♈38'21	evening set	10464 Nov 09 06:58	2°♊00'34	
	10462 Apr 28 14:16	0°♉	inferior conj	10464 Nov 12 15:07	29°♌55'46	-8°39'37
morning set	10462 May 12 08:44	17°♉14'33	minimum elong	10464 Nov 12 13:17	29°♌58'40	8°39'08
	10462 May 22 12:41	0°♊	min. Earth dist.	10464 Nov 12 09:05	0°♊05'16	0.29066 AU
	10462 Jun 15 09:47	0°♋		10464 Nov 12 12:26	30°♌♌	
			morning rise	10464 Nov 15 19:42	27°♌56'44	
superior conj	10462 Jun 21 15:27	7°♋50'00	direct	10464 Dec 04 03:06	21°♌41'32	
minimum elong	10462 Jun 22 02:12	8°♋23'47	greatest brilliancy	10464 Dec 14 07:17	23°♌34'43	-4.7m
max. Earth dist.	10462 Jun 23 02:11	9°♋39'03		10464 Dec 26 17:56	0°♊	
	10462 Jul 09 07:36	0°♌	asc. node	10465 Jan 11 14:25	12°♊19'40	
asc. node	10462 Jul 27 14:32	22°♌52'21	morning max el	10465 Jan 22 05:27	22°♊12'54	45°50'08
evening rise	10462 Jul 31 17:07	27°♌59'48		10465 Jan 30 00:13	0°♋	
	10462 Aug 02 07:41	0°♍		10465 Feb 26 14:23	0°♌	
	10462 Aug 26 11:12	0°♎		10465 Mar 24 08:46	0°♍	
	10462 Sep 19 19:24	0°♏		10465 Apr 18 06:52	0°♎	
	10462 Oct 14 10:24	0°♐	desc. node	10465 May 03 09:21	18°♎29'01	
	10462 Nov 08 11:33	0°♑		10465 May 12 17:32	0°♏	
desc. node	10462 Nov 16 09:41	9°♑21'06		10465 Jun 05 21:28	0°♊	
	10462 Dec 04 03:43	0°♒		10465 Jun 29 22:08	0°♋	
	10462 Dec 30 20:18	0°♓		10465 Jul 23 22:17	0°♌	
evening max el	10463 Jan 26 16:19	27°♓56'50	morning set	10465 Jul 26 05:12	2°♌51'25	
	10463 Jan 28 19:19	0°♈		10465 Aug 16 23:36	0°♍	
greatest brilliancy	10463 Mar 07 07:41	27°♈18'48	asc. node	10465 Aug 24 03:20	8°♍54'29	
asc. node	10463 Mar 09 09:56	27°♈59'00				
retrograde	10463 Mar 17 05:44	29°♈08'33	superior conj	10465 Sep 03 01:32	21°♎14'47	0°23'50
evening set	10463 Apr 01 17:27	24°♈25'43	minimum elong	10465 Sep 02 20:12	20°♎58'12	0°23'27
inferior conj	10463 Apr 06 23:04	21°♈17'53	max. Earth dist.	10465 Sep 05 17:03	24°♎32'03	1.72433 AU
minimum elong	10463 Apr 06 12:02	21°♈34'55		10465 Sep 10 02:42	0°♎	
min. Earth dist.	10463 Apr 06 21:16	21°♈20'40		10465 Oct 04 07:50	0°♏	
morning rise	10463 Apr 11 06:32	18°♈41'30	evening rise	10465 Oct 10 12:23	7°♌38'52	
direct	10463 Apr 27 19:08	13°♈22'47		10465 Oct 28 15:42	0°♊	
greatest brilliancy	10463 May 07 17:25	15°♈15'04		10465 Nov 22 03:31	0°♋	
	10463 May 30 21:33	0°♉	desc. node	10465 Dec 13 21:12	26°♋24'26	
morning max el	10463 Jun 17 08:33	16°♉17'54		10465 Dec 16 20:31	0°♌	
desc. node	10463 Jun 29 07:55	28°♉46'35		10466 Jan 10 19:29	0°♍	
	10463 Jun 30 11:13	0°♊		10466 Feb 05 01:52	0°♎	
	10463 Jul 27 04:26	0°♋		10466 Mar 02 20:59	0°♏	
	10463 Aug 21 17:19	0°♌		10466 Mar 29 22:37	0°♊	
	10463 Sep 15 18:39	0°♍	asc. node	10466 Apr 05 20:25	7°♊12'25	
	10463 Oct 10 14:08	0°♎	evening max el	10466 Apr 09 12:09	10°♊54'45	46°47'33
asc. node	10463 Oct 20 03:46	11°♎37'36		10466 Apr 30 12:15	0°♋	
	10463 Nov 04 05:24	0°♏	greatest brilliancy	10466 May 20 02:52	11°♋43'06	-4.9m
	10463 Nov 28 17:06	0°♐	retrograde	10466 May 29 19:07	13°♋29'03	
morning set	10463 Dec 16 13:04	21°♐56'22	evening set	10466 Jun 16 01:36	7°♌46'03	
	10463 Dec 23 02:04	0°♑	inferior conj	10466 Jun 19 11:38	5°♌41'27	8°00'33
	10464 Jan 16 09:19	0°♒	minimum elong	10466 Jun 19 21:27	5°♌26'20	7°58'27
max. Earth dist.	10464 Jan 21 00:23	5°♒43'11	min. Earth dist.	10466 Jun 19 18:05	5°♌31'30	0.27113 AU
			morning rise	10466 Jun 23 17:18	3°♌08'05	
superior conj	10464 Jan 22 13:18	7°♒37'14		10466 Jun 29 23:27	30°♌♌	
minimum elong	10464 Jan 22 21:32	8°♒02'42	direct	10466 Jul 10 04:16	27°♌53'59	
desc. node	10464 Feb 08 19:58	29°♒00'09	greatest brilliancy	10466 Jul 20 01:29	29°♌43'24	-4.9m
	10464 Feb 09 15:17	0°♓		10466 Jul 20 19:37	0°♋	
evening rise	10464 Mar 01 00:15	25°♓15'41	desc. node	10466 Jul 26 18:56	2°♋45'33	
	10464 Mar 04 19:49	0°♈	morning max el	10466 Aug 29 03:17	29°♋46'16	46°28'06
	10464 Mar 28 22:48	0°♉		10466 Aug 29 08:51	0°♌	
	10464 Apr 22 01:08	0°♊		10466 Sep 26 19:22	0°♍	
	10464 May 16 05:09	0°♋		10466 Oct 23 06:42	0°♎	
asc. node	10464 May 31 16:18	19°♋04'04	asc. node	10466 Nov 16 16:40	28°♎36'02	
	10464 Jun 09 14:28	0°♌		10466 Nov 17 21:00	0°♏	
	10464 Jul 04 10:15	0°♍		10466 Dec 12 22:22	0°♐	
	10464 Jul 30 01:43	0°♎		10467 Jan 06 14:56	0°♑	
	10464 Aug 26 12:28	0°♏		10467 Jan 31 01:34	0°♒	
evening max el	10464 Sep 02 16:14	7°♏13'01	morning set	10467 Feb 24 06:19	29°♒54'31	
desc. node	10464 Sep 20 14:16	23°♏22'28		10467 Feb 24 08:05	0°♓	
	10464 Sep 29 15:09	0°♐	desc. node	10467 Mar 08 08:54	14°♓56'30	
greatest brilliancy	10464 Oct 11 12:14	6°♐11'48		10467 Mar 20 11:13	0°♈	

max. Earth dist.	10467 Apr 01 12:55	15° Υ 04'08	1.71774 AU	minimum elong	10469 Aug 31 08:28	18° Υ 55'23	2°03'32
				morning rise	10469 Sep 06 12:32	15° Υ 16'20	
superior conj	10467 Apr 04 20:48	19° Υ 13'50	-1°00'41	direct	10469 Sep 21 12:25	10° Υ 54'31	
minimum elong	10467 Apr 04 09:20	18° Υ 37'58	1°00'23	greatest brilliancy	10469 Oct 01 04:46	12° Υ 37'07	-4.8m
	10467 Apr 13 11:22	0° \mathcal{B}			10469 Oct 28 09:34	0° \mathcal{B}	
	10467 May 07 09:28	0° Π		morning max el	10469 Nov 09 10:37	10° \mathcal{B} 56'39	45°47'30
evening rise	10467 May 14 19:56	9° Π 19'57			10469 Nov 28 05:45	0° \mathcal{M}	
	10467 May 31 07:19	0° \mathcal{E}		asc. node	10469 Dec 14 04:53	17° \mathcal{M} 22'20	
	10467 Jun 24 07:11	0° \mathcal{Q}			10469 Dec 25 09:29	0° \mathcal{X}	
asc. node	10467 Jun 29 04:02	6° \mathcal{Q} 03'54			10470 Jan 20 03:25	0° \mathcal{Z}	
	10467 Jul 18 11:19	0° \mathcal{M}			10470 Feb 14 03:33	0° \approx	
	10467 Aug 11 22:14	0° \mathcal{B}			10470 Mar 10 17:07	0° \mathcal{H}	
	10467 Sep 05 20:07	0° \mathcal{M}			10470 Apr 03 23:44	0° Υ	
	10467 Oct 01 13:05	0° \mathcal{X}		desc. node	10470 Apr 04 22:14	1° Υ 09'53	
desc. node	10467 Oct 19 00:45	19° \mathcal{X} 31'32			10470 Apr 28 01:22	0° \mathcal{B}	
	10467 Oct 28 19:31	0° \mathcal{Z}		morning set	10470 May 09 19:36	14° \mathcal{B} 43'31	
evening max el	10467 Nov 13 14:21	15° \mathcal{Z} 54'04	45°46'59		10470 May 21 23:44	0° Π	
	10467 Nov 29 10:39	0° \approx			10470 Jun 14 20:48	0° \mathcal{E}	
greatest brilliancy	10467 Dec 22 19:21	14° \approx 08'14	-4.7m				
retrograde	10468 Jan 01 09:31	15° \approx 49'10		superior conj	10470 Jun 19 02:56	5° \mathcal{E} 20'46	-1°15'57
evening set	10468 Jan 17 04:55	11° \approx 01'40		minimum elong	10470 Jun 19 13:14	5° \mathcal{E} 53'07	1°16'12
inferior conj	10468 Jan 22 15:34	7° \approx 44'54	-4°08'32	max. Earth dist.	10470 Jun 20 13:03	7° \mathcal{E} 07'54	1.71374 AU
minimum elong	10468 Jan 22 23:56	7° \approx 31'49	4°05'50		10470 Jul 08 18:36	0° \mathcal{Q}	
min. Earth dist.	10468 Jan 23 08:42	7° \approx 18'09	0.28348 AU	asc. node	10470 Jul 26 16:23	22° \mathcal{Q} 23'42	
morning rise	10468 Jan 28 18:18	4° \approx 03'59		evening rise	10470 Jul 29 06:10	25° \mathcal{Q} 36'25	
	10468 Feb 08 04:50	30° \mathcal{K} \mathcal{Z}			10470 Aug 01 18:44	0° \mathcal{M}	
asc. node	10468 Feb 09 01:15	29° \mathcal{Z} 51'06			10470 Aug 25 22:20	0° \mathcal{B}	
direct	10468 Feb 12 21:38	29° \mathcal{Z} 33'04			10470 Sep 19 06:43	0° \mathcal{M}	
	10468 Feb 17 17:13	0° \approx			10470 Oct 13 22:04	0° \mathcal{X}	
greatest brilliancy	10468 Feb 24 00:22	1° \approx 49'22	-4.8m		10470 Nov 07 23:54	0° \mathcal{Z}	
	10468 Apr 01 07:24	0° \mathcal{H}		desc. node	10470 Nov 15 11:41	8° \mathcal{Z} 49'41	
morning max el	10468 Apr 02 22:26	1° \mathcal{H} 36'51	46°32'38		10470 Dec 03 17:25	0° \approx	
	10468 Apr 29 11:04	0° Υ			10470 Dec 30 12:49	0° \mathcal{H}	
	10468 May 25 08:35	0° \mathcal{B}		evening max el	10471 Jan 24 07:31	25° \mathcal{H} 40'45	46°08'36
desc. node	10468 May 30 21:58	6° \mathcal{B} 36'30			10471 Jan 28 19:57	0° Υ	
	10468 Jun 19 07:46	0° Π		greatest brilliancy	10471 Mar 04 20:45	24° Υ 56'01	-4.8m
	10468 Jul 13 20:31	0° \mathcal{E}		asc. node	10471 Mar 08 12:02	26° Υ 00'11	
	10468 Aug 07 05:00	0° \mathcal{Q}		retrograde	10471 Mar 14 18:58	26° Υ 45'28	
	10468 Aug 31 12:20	0° \mathcal{M}		evening set	10471 Mar 30 03:33	22° Υ 07'40	
asc. node	10468 Sep 20 16:32	24° \mathcal{M} 54'31		inferior conj	10471 Apr 04 12:32	18° Υ 54'46	6°17'57
	10468 Sep 24 19:32	0° \mathcal{B}		minimum elong	10471 Apr 04 01:34	19° Υ 11'43	6°15'16
morning set	10468 Oct 05 10:12	13° \mathcal{B} 06'06		min. Earth dist.	10471 Apr 04 10:52	18° Υ 57'20	0.27350 AU
	10468 Oct 19 02:37	0° \mathcal{M}		morning rise	10471 Apr 08 23:28	16° Υ 13'06	
				direct	10471 Apr 25 09:18	10° Υ 59'36	
superior conj	10468 Nov 11 11:41	28° \mathcal{M} 51'48	1°25'35	greatest brilliancy	10471 May 05 07:29	12° Υ 51'44	-4.9m
minimum elong	10468 Nov 11 09:28	28° \mathcal{M} 44'58	1°25'59		10471 May 31 06:05	0° \mathcal{B}	
max. Earth dist.	10468 Nov 12 03:59	29° \mathcal{M} 42'08	1.73196 AU	morning max el	10471 Jun 14 21:55	13° \mathcal{B} 53'36	46°58'56
	10468 Nov 12 09:47	0° \mathcal{X}		desc. node	10471 Jun 28 09:50	28° \mathcal{B} 00'37	
	10468 Dec 06 17:37	0° \mathcal{Z}			10471 Jun 30 05:52	0° Π	
evening rise	10468 Dec 18 07:12	14° \mathcal{Z} 14'31			10471 Jul 26 19:23	0° \mathcal{E}	
	10468 Dec 31 02:46	0° \approx			10471 Aug 21 06:34	0° \mathcal{Q}	
desc. node	10469 Jan 10 09:11	12° \approx 36'50			10471 Sep 15 06:55	0° \mathcal{M}	
	10469 Jan 24 13:14	0° \mathcal{H}			10471 Oct 10 01:47	0° \mathcal{B}	
	10469 Feb 18 00:36	0° Υ		asc. node	10471 Oct 19 05:45	11° \mathcal{B} 08'47	
	10469 Mar 14 13:12	0° \mathcal{B}			10471 Nov 03 16:37	0° \mathcal{M}	
	10469 Apr 08 05:31	0° Π			10471 Nov 28 04:02	0° \mathcal{X}	
asc. node	10469 May 03 07:01	29° \mathcal{B} 57'59		morning set	10471 Dec 14 06:26	19° \mathcal{X} 48'42	
	10469 May 03 07:42	0° \mathcal{E}			10471 Dec 22 12:52	0° \mathcal{Z}	
	10469 May 29 08:51	0° \mathcal{Q}			10472 Jan 15 20:06	0° \approx	
evening max el	10469 Jun 21 02:23	24° \mathcal{Q} 15'38	46°46'55	max. Earth dist.	10472 Jan 18 17:04	3° \approx 33'05	1.72934 AU
	10469 Jun 26 22:36	0° \mathcal{M}					
greatest brilliancy	10469 Jul 30 12:24	24° \mathcal{M} 36'53	-4.8m	superior conj	10472 Jan 20 05:21	5° \approx 25'09	0°43'14
retrograde	10469 Aug 10 10:49	26° \mathcal{M} 50'43		minimum elong	10472 Jan 20 13:58	5° \approx 51'47	0°43'18
desc. node	10469 Aug 23 05:42	23° \mathcal{M} 34'09		desc. node	10472 Feb 07 21:51	28° \approx 32'21	
evening set	10469 Aug 25 05:02	22° \mathcal{M} 33'03			10472 Feb 09 02:10	0° \mathcal{H}	
min. Earth dist.	10469 Aug 30 21:39	19° \mathcal{M} 12'02	0.27732 AU	evening rise	10472 Feb 27 14:46	22° \mathcal{H} 57'41	
inferior conj	10469 Aug 31 13:09	18° \mathcal{M} 48'10	-2°04'49		10472 Mar 04 06:51	0° Υ	

	10472 Mar 28 10:01	0°♄			10474 Aug 29 07:31	0°♌		
	10472 Apr 21 12:36	0°♊			10474 Sep 26 11:28	0°♎		
	10472 May 15 16:58	0°♍			10474 Oct 22 20:15	0°♐		
asc. node	10472 May 30 18:10	18°♍32'33		asc. node	10474 Nov 15 18:30	28°♐05'00		
	10472 Jun 09 02:50	0°♌			10474 Nov 17 09:15	0°♍		
	10472 Jul 03 23:34	0°♎			10474 Dec 12 09:54	0°♏		
	10472 Jul 29 16:55	0°♐			10475 Jan 06 02:03	0°♑		
	10472 Aug 26 08:32	0°♍			10475 Jan 30 12:29	0°♒		
evening max el	10472 Aug 31 07:16	4°♍57'29	46°09'16	morning set	10475 Feb 21 20:53	27°♒37'23		
desc. node	10472 Sep 19 16:21	22°♍17'54			10475 Feb 23 18:53	0°♏		
	10472 Sep 30 20:09	0°♏		desc. node	10475 Mar 07 10:56	14°♏29'23		
greatest brilliancy	10472 Oct 09 04:04	4°♏00'32	-4.8m		10475 Mar 19 21:59	0°♑		
retrograde	10472 Oct 19 18:19	6°♏02'47		max. Earth dist.	10475 Mar 30 03:19	12°♑45'28	1.71814 AU	
evening set	10472 Nov 06 21:21	29°♍52'18						
	10472 Nov 06 16:16	30°♎		superior conj	10475 Apr 02 09:23	16°♑49'26	-0°57'52	
inferior conj	10472 Nov 10 07:11	27°♍44'52	-8°37'30	minimum elong	10475 Apr 01 22:03	16°♑13'59	0°57'33	
minimum elong	10472 Nov 10 04:34	27°♍49'00	8°37'00		10475 Apr 12 22:09	0°♄		
min. Earth dist.	10472 Nov 10 00:15	27°♍55'47	0.29046 AU		10475 May 06 20:19	0°♊		
morning rise	10472 Nov 13 11:52	25°♍45'32		evening rise	10475 May 12 07:25	6°♊51'15		
direct	10472 Dec 01 18:49	19°♍31'14			10475 May 30 18:19	0°♍		
greatest brilliancy	10472 Dec 11 22:09	21°♍23'13	-4.7m		10475 Jun 23 18:21	0°♌		
	10472 Dec 27 14:28	0°♏		asc. node	10475 Jun 28 05:54	5°♌34'53		
asc. node	10473 Jan 10 16:16	11°♏23'39			10475 Jul 17 22:42	0°♎		
morning max el	10473 Jan 19 19:24	19°♏56'24	45°49'13		10475 Aug 11 10:02	0°♐		
	10473 Jan 29 19:21	0°♑			10475 Sep 05 08:42	0°♍		
	10473 Feb 26 05:05	0°♒			10475 Oct 01 03:14	0°♏		
	10473 Mar 23 21:46	0°♏		desc. node	10475 Oct 18 02:45	18°♏53'09		
	10473 Apr 17 19:02	0°♑			10475 Oct 28 13:29	0°♑		
desc. node	10473 May 02 11:16	17°♑58'30		evening max el	10475 Nov 11 05:08	13°♑40'54	45°47'06	
	10473 May 12 05:14	0°♄			10475 Nov 29 20:57	0°♒		
	10473 Jun 05 08:52	0°♊		greatest brilliancy	10475 Dec 20 09:28	11°♒54'26	-4.7m	
	10473 Jun 29 09:19	0°♍		retrograde	10475 Dec 30 00:56	13°♒36'16		
	10473 Jul 23 09:18	0°♌		evening set	10476 Jan 14 22:37	8°♒44'28		
morning set	10473 Jul 23 18:29	0°♌28'42		inferior conj	10476 Jan 20 06:50	5°♒31'04	-4°26'58	
	10473 Aug 16 10:30	0°♎		minimum elong	10476 Jan 20 15:38	5°♒17'19	4°24'10	
asc. node	10473 Aug 23 05:17	8°♎26'43		min. Earth dist.	10476 Jan 20 23:53	5°♒04'28	0.28396 AU	
				morning rise	10476 Jan 26 08:05	1°♒52'30		
superior conj	10473 Aug 31 16:13	18°♎57'39	0°20'23		10476 Jan 30 00:41	30°♎		
minimum elong	10473 Aug 31 11:36	18°♎43'18	0°20'01	asc. node	10476 Feb 08 03:21	27°♑25'48		
max. Earth dist.	10473 Sep 03 08:15	22°♎16'33	1.72393 AU	direct	10476 Feb 10 13:33	27°♑18'39		
	10473 Sep 09 13:32	0°♐		greatest brilliancy	10476 Feb 21 16:14	29°♑35'23	-4.8m	
	10473 Oct 03 18:40	0°♍			10476 Feb 22 16:35	0°♒		
evening rise	10473 Oct 08 04:54	5°♍28'10		morning max el	10476 Mar 31 14:30	29°♒22'50	46°31'14	
	10473 Oct 28 02:38	0°♏			10476 Apr 01 05:23	0°♏		
	10473 Nov 21 14:41	0°♑			10476 Apr 29 02:46	0°♑		
desc. node	10473 Dec 12 23:04	25°♑55'17			10476 May 24 22:01	0°♄		
	10473 Dec 16 08:04	0°♒		desc. node	10476 May 29 23:51	6°♄02'53		
	10474 Jan 10 07:41	0°♏			10476 Jun 18 20:07	0°♊		
	10474 Feb 04 15:08	0°♑			10476 Jul 13 08:14	0°♍		
	10474 Mar 02 12:12	0°♄			10476 Aug 06 16:18	0°♌		
	10474 Mar 29 18:24	0°♊			10476 Aug 30 23:19	0°♎		
asc. node	10474 Apr 04 22:25	6°♊21'55		asc. node	10476 Sep 19 18:31	24°♎27'23		
evening max el	10474 Apr 07 00:03	8°♊27'00	46°46'30		10476 Sep 24 06:16	0°♐		
	10474 May 01 05:26	0°♍		morning set	10476 Oct 03 02:10	10°♐54'11		
greatest brilliancy	10474 May 17 16:42	9°♍18'08	-4.9m		10476 Oct 18 13:12	0°♍		
retrograde	10474 May 27 07:35	11°♍03'25						
evening set	10474 Jun 13 17:53	5°♍15'11		superior conj	10476 Nov 09 04:48	26°♍43'59	1°25'08	
inferior conj	10474 Jun 17 00:26	3°♍15'54	8°12'08	minimum elong	10476 Nov 09 01:52	26°♍34'56	1°25'32	
minimum elong	10474 Jun 17 09:45	3°♍01'35	8°10'14	max. Earth dist.	10476 Nov 10 00:36	27°♍45'08	1.73186 AU	
min. Earth dist.	10474 Jun 17 07:17	3°♍05'22	0.27120 AU		10476 Nov 11 20:18	0°♏		
morning rise	10474 Jun 21 01:35	0°♍49'07			10476 Dec 06 04:11	0°♑		
	10474 Jun 22 12:07	30°♎		evening rise	10476 Dec 15 23:41	12°♑04'57		
direct	10474 Jul 07 16:28	25°♊27'58			10476 Dec 30 13:29	0°♒		
greatest brilliancy	10474 Jul 17 14:47	27°♊18'19	-4.9m	desc. node	10477 Jan 09 11:08	12°♒09'36		
	10474 Jul 23 16:46	0°♍			10477 Jan 24 00:11	0°♏		
desc. node	10474 Jul 25 20:56	1°♍11'52			10477 Feb 17 11:55	0°♑		
morning max el	10474 Aug 26 16:28	27°♍23'10	46°29'50		10477 Mar 14 01:01	0°♄		

	10477 Apr 07 18:06	0°♊			10479 Nov 27 14:33	0°♊	
asc. node	10477 May 02 08:57	29°♊22'54	morning set		10479 Dec 11 23:42	17°♊41'54	
	10477 May 02 21:34	0°♋			10479 Dec 21 23:16	0°♋	
	10477 May 29 01:27	0°♌			10480 Jan 15 06:30	0°♌	
evening max el	10477 Jun 18 17:52	21°♌59'00 46°47'47	max. Earth dist.		10480 Jan 16 08:58	1°♌21'47	1.72963 AU
	10477 Jun 26 23:42	0°♍					
greatest brilliancy	10477 Jul 28 03:17	22°♍18'54 -4.8m	superior conj		10480 Jan 17 21:21	3°♌14'10	0°46'09
retrograde	10477 Aug 08 02:07	24°♍32'41	minimum elong		10480 Jan 18 06:18	3°♌41'49	0°46'13
desc. node	10477 Aug 22 07:49	20°♍31'12	desc. node		10480 Feb 06 23:50	28°♌06'02	
evening set	10477 Aug 22 19:14	20°♍15'53			10480 Feb 08 12:39	0°♎	
min. Earth dist.	10477 Aug 28 12:16	16°♍54'04 0.27685 AU	evening rise		10480 Feb 25 05:14	20°♎40'49	
inferior conj	10477 Aug 29 03:24	16°♍30'46 -1°42'55			10480 Mar 03 17:29	0°♏	
minimum elong	10477 Aug 28 23:30	16°♍36'46 1°41'53			10480 Mar 27 20:52	0°♏	
morning rise	10477 Sep 04 04:32	12°♍56'57			10480 Apr 20 23:43	0°♐	
direct	10477 Sep 19 02:56	8°♍37'54			10480 May 15 04:26	0°♐	
greatest brilliancy	10477 Sep 28 18:20	10°♍20'11 -4.8m	asc. node		10480 May 29 20:05	18°♐02'13	
	10477 Oct 28 14:15	0°♑			10480 Jun 08 14:52	0°♑	
morning max el	10477 Nov 07 01:45	8°♑43'56 45°48'14			10480 Jul 03 12:32	0°♒	
	10477 Nov 27 22:45	0°♒			10480 Jul 29 07:47	0°♒	
asc. node	10477 Dec 13 06:48	16°♒46'37			10480 Aug 26 04:34	0°♓	
	10477 Dec 24 23:11	0°♓	evening max el		10480 Aug 28 21:35	2°♓41'52	46°10'38
	10478 Jan 19 15:39	0°♋	desc. node		10480 Sep 18 18:17	21°♓13'18	
	10478 Feb 13 15:02	0°♌			10480 Oct 02 12:40	0°♓	
	10478 Mar 10 04:13	0°♍	greatest brilliancy		10480 Oct 06 19:52	1°♓51'11	-4.8m
	10478 Apr 03 10:37	0°♎	retrograde		10480 Oct 17 10:09	3°♓54'02	
desc. node	10478 Apr 04 00:04	0°♏41'48			10480 Oct 31 13:56	30°♓	
	10478 Apr 27 12:08	0°♏	evening set		10480 Nov 04 11:38	27°♓46'37	
morning set	10478 May 07 06:38	12°♏14'09	inferior conj		10480 Nov 07 23:30	25°♓36'12	-8°34'38
	10478 May 21 10:24	0°♐	minimum elong		10480 Nov 07 20:06	25°♓41'33	8°34'04
	10478 Jun 14 07:24	0°♐	min. Earth dist.		10480 Nov 07 15:44	25°♓48'26	0.29029 AU
			morning rise		10480 Nov 11 04:40	23°♓36'06	
superior conj	10478 Jun 16 14:45	2°♐53'51 -1°17'49	direct		10480 Nov 29 10:25	17°♓22'55	
minimum elong	10478 Jun 17 00:31	3°♐24'30 1°18'07	greatest brilliancy		10480 Dec 09 13:48	19°♓14'25	-4.7m
max. Earth dist.	10478 Jun 17 23:57	4°♐38'06 1.71351 AU			10480 Dec 28 04:54	0°♓	
	10478 Jul 08 05:09	0°♑	asc. node		10481 Jan 09 18:21	10°♓30'39	
asc. node	10478 Jul 25 18:23	21°♑56'57	morning max el		10481 Jan 17 09:49	17°♓42'15	45°48'16
evening rise	10478 Jul 26 19:23	23°♑14'57			10481 Jan 29 13:31	0°♋	
	10478 Aug 01 05:18	0°♒			10481 Feb 25 19:15	0°♌	
	10478 Aug 25 09:01	0°♑			10481 Mar 23 10:21	0°♍	
	10478 Sep 18 17:37	0°♒			10481 Apr 17 06:49	0°♎	
	10478 Oct 13 09:24	0°♓	desc. node		10481 May 01 13:08	17°♏28'59	
	10478 Nov 07 11:58	0°♋			10481 May 11 16:33	0°♏	
desc. node	10478 Nov 14 13:32	8°♋18'45			10481 Jun 04 19:54	0°♐	
	10478 Dec 03 06:54	0°♌			10481 Jun 28 20:09	0°♐	
	10478 Dec 30 05:17	0°♍	morning set		10481 Jul 21 07:44	28°♐06'44	
evening max el	10479 Jan 21 21:46	23°♍23'27 46°07'11			10481 Jul 22 19:59	0°♑	
	10479 Jan 28 21:26	0°♎			10481 Aug 15 21:03	0°♒	
greatest brilliancy	10479 Mar 02 10:23	22°♏35'02 -4.8m	asc. node		10481 Aug 22 07:14	8°♒00'02	
asc. node	10479 Mar 07 14:02	23°♏57'38					
retrograde	10479 Mar 12 07:45	24°♏23'34	superior conj		10481 Aug 29 07:06	16°♒42'07	0°16'56
evening set	10479 Mar 27 13:50	19°♏50'27	minimum elong		10481 Aug 29 03:13	16°♒30'05	0°16'34
inferior conj	10479 Apr 02 01:59	16°♏32'54 6°00'18	max. Earth dist.		10481 Aug 31 21:54	19°♒57'17	1.72348 AU
minimum elong	10479 Apr 01 15:09	16°♏49'40 5°57'35			10481 Sep 08 24:00	0°♑	
min. Earth dist.	10479 Apr 02 00:51	16°♏34'38 0.27363 AU			10481 Oct 03 05:06	0°♒	
morning rise	10479 Apr 06 16:19	13°♏45'59	evening rise		10481 Oct 05 21:48	3°♒19'50	
direct	10479 Apr 22 22:51	8°♏37'28			10481 Oct 27 13:10	0°♓	
greatest brilliancy	10479 May 02 22:09	10°♏30'06 -4.9m			10481 Nov 21 01:28	0°♋	
	10479 May 31 11:44	0°♏	desc. node		10481 Dec 12 01:04	25°♋27'36	
morning max el	10479 Jun 12 10:32	11°♏28'25 46°59'05			10481 Dec 15 19:19	0°♌	
desc. node	10479 Jun 27 11:46	27°♏16'39			10482 Jan 09 19:38	0°♍	
	10479 Jun 29 23:37	0°♐			10482 Feb 04 04:13	0°♎	
	10479 Jul 26 09:39	0°♐			10482 Mar 02 03:23	0°♏	
	10479 Aug 20 19:11	0°♑			10482 Mar 29 14:33	0°♐	
	10479 Sep 14 18:36	0°♒	asc. node		10482 Apr 04 00:20	5°♐31'06	
	10479 Oct 09 12:53	0°♑	evening max el		10482 Apr 04 12:28	6°♐01'30	46°45'35
asc. node	10479 Oct 18 07:33	10°♑40'58			10482 May 02 04:10	0°♐	
	10479 Nov 03 03:21	0°♒	greatest brilliancy		10482 May 15 05:52	6°♐53'19	-4.9m

retrograde	10482 May 24 20:34	8°☿38'46		superior conj	10484 Nov 06 22:06	24°♄36'31	1°24'35
evening set	10482 Jun 11 10:02	2°☿45'13		minimum elong	10484 Nov 06 18:29	24°♄25'22	1°24'57
inferior conj	10482 Jun 14 13:16	0°☿51'02	8°22'44	max. Earth dist.	10484 Nov 07 21:14	25°♄47'54	1.73170 AU
minimum elong	10482 Jun 14 21:59	0°☿37'39	8°21'03		10484 Nov 11 06:54	0°♂	
min. Earth dist.	10482 Jun 14 20:05	0°☿40'34	0.27128 AU		10484 Dec 05 14:49	0°♂	
	10482 Jun 15 22:34	30°♄		evening rise	10484 Dec 13 16:31	9°♂56'16	
morning rise	10482 Jun 18 09:55	28°♄31'02			10484 Dec 30 00:13	0°♄	
direct	10482 Jul 05 05:05	23°♄02'36		desc. node	10485 Jan 08 13:09	11°♄42'32	
greatest brilliancy	10482 Jul 15 03:38	24°♄53'30	-4.9m		10485 Jan 23 11:11	0°♄	
desc. node	10482 Jul 24 23:03	29°♄42'30			10485 Feb 16 23:18	0°♄	
	10482 Jul 25 10:25	0°☿			10485 Mar 13 12:58	0°♂	
morning max el	10482 Aug 24 06:44	25°☿03'23	46°31'36		10485 Apr 07 06:54	0°♄	
	10482 Aug 29 05:01	0°♄		asc. node	10485 May 01 10:53	28°♄46'49	
	10482 Sep 26 03:02	0°♄			10485 May 02 11:50	0°☿	
	10482 Oct 22 09:25	0°♄			10485 May 28 18:45	0°♄	
asc. node	10482 Nov 14 20:28	27°♄35'18		evening max el	10485 Jun 16 09:15	19°♄40'57	46°48'34
	10482 Nov 16 21:10	0°♄			10485 Jun 27 02:43	0°♄	
	10482 Dec 11 21:06	0°♂		greatest brilliancy	10485 Jul 25 18:46	20°♄00'18	-4.8m
	10483 Jan 05 12:54	0°♂		retrograde	10485 Aug 05 16:57	22°♄12'59	
	10483 Jan 29 23:10	0°♄		evening set	10485 Aug 20 09:30	17°♄57'06	
morning set	10483 Feb 19 11:39	25°♄21'31		desc. node	10485 Aug 21 09:43	17°♄23'34	
	10483 Feb 23 05:32	0°♄		min. Earth dist.	10485 Aug 26 03:00	14°♄34'17	0.27635 AU
desc. node	10483 Mar 06 12:49	14°♄02'08		inferior conj	10485 Aug 26 17:29	14°♄11'57	-1°20'43
	10483 Mar 19 08:38	0°♄		minimum elong	10485 Aug 26 14:24	14°♄16'42	1°19'56
max. Earth dist.	10483 Mar 27 17:44	10°♄27'15	1.71856 AU	morning rise	10485 Sep 01 20:08	10°♄36'10	
				direct	10485 Sep 16 17:12	6°♄19'59	
superior conj	10483 Mar 30 21:51	14°♄25'00	-0°54'57	greatest brilliancy	10485 Sep 26 07:47	8°♄01'45	-4.8m
minimum elong	10483 Mar 30 10:45	13°♄50'20	0°54'36		10485 Oct 28 17:31	0°♄	
	10483 Apr 12 08:50	0°♂		morning max el	10485 Nov 04 15:55	6°♄28'00	45°49'06
	10483 May 06 07:06	0°♄			10485 Nov 27 15:39	0°♄	
evening rise	10483 May 09 18:44	4°♄22'19		asc. node	10485 Dec 12 08:48	16°♄10'46	
	10483 May 30 05:12	0°☿			10485 Dec 24 12:56	0°♂	
	10483 Jun 23 05:25	0°♄			10486 Jan 19 04:00	0°♂	
asc. node	10483 Jun 27 07:56	5°♄06'38			10486 Feb 13 02:39	0°♄	
	10483 Jul 17 10:02	0°♄			10486 Mar 09 15:27	0°♄	
	10483 Aug 10 21:49	0°♄			10486 Apr 02 21:40	0°♄	
	10483 Sep 04 21:17	0°♄		desc. node	10486 Apr 03 01:58	0°♄13'21	
	10483 Sep 30 17:27	0°♂			10486 Apr 26 23:06	0°♂	
desc. node	10483 Oct 17 04:42	18°♂14'40		morning set	10486 May 04 17:41	9°♂44'05	
	10483 Oct 28 07:43	0°♂			10486 May 20 21:21	0°♄	
evening max el	10483 Nov 08 20:58	11°♂30'54	45°47'22		10486 Jun 13 18:20	0°☿	
	10483 Nov 30 10:21	0°♄					
greatest brilliancy	10483 Dec 17 23:45	9°♄42'10	-4.7m	superior conj	10486 Jun 14 02:15	0°☿24'52	-1°19'33
retrograde	10483 Dec 27 16:38	11°♄24'45		minimum elong	10486 Jun 14 11:23	0°☿53'33	1°19'53
evening set	10484 Jan 12 16:42	6°♄28'51		max. Earth dist.	10486 Jun 15 06:50	1°☿54'39	1.71336 AU
inferior conj	10484 Jan 17 22:23	3°♄18'40	-4°44'39		10486 Jul 07 16:06	0°♄	
minimum elong	10484 Jan 18 07:34	3°♄04'20	4°41'50	evening rise	10486 Jul 24 07:54	20°♄49'57	
min. Earth dist.	10484 Jan 18 15:01	2°♄52'42	0.28444 AU	asc. node	10486 Jul 24 20:16	21°♄28'32	
	10484 Jan 23 09:35	30°♄			10486 Jul 31 16:17	0°♄	
morning rise	10484 Jan 23 21:58	29°♄42'34			10486 Aug 24 20:07	0°♄	
asc. node	10484 Feb 07 05:19	25°♄07'10			10486 Sep 18 04:56	0°♄	
direct	10484 Feb 08 06:06	25°♄05'53			10486 Oct 12 21:07	0°♂	
greatest brilliancy	10484 Feb 19 07:41	27°♄21'56	-4.8m		10486 Nov 07 00:29	0°♂	
	10484 Feb 24 22:59	0°♄		desc. node	10486 Nov 13 15:35	7°♄47'11	
morning max el	10484 Mar 29 06:42	27°♄09'29	46°29'28		10486 Dec 02 20:52	0°♄	
	10484 Apr 01 02:28	0°♄			10486 Dec 29 22:25	0°♄	
	10484 Apr 28 18:16	0°♄		evening max el	10487 Jan 19 11:31	21°♄04'25	46°05'58
	10484 May 24 11:27	0°♂			10487 Jan 29 00:39	0°♄	
desc. node	10484 May 29 01:52	5°♂29'29		greatest brilliancy	10487 Feb 28 00:39	20°♄14'53	-4.8m
	10484 Jun 18 08:30	0°♄		asc. node	10487 Mar 06 15:55	21°♄50'31	
	10484 Jul 12 20:00	0°☿		retrograde	10487 Mar 09 20:45	22°♄02'29	
	10484 Aug 06 03:38	0°♄		evening set	10487 Mar 25 00:43	17°♄33'21	
	10484 Aug 30 10:19	0°♄		inferior conj	10487 Mar 30 15:50	14°♄11'49	5°42'18
asc. node	10484 Sep 18 20:17	23°♄59'24		minimum elong	10487 Mar 30 05:13	14°♄28'17	5°39'32
	10484 Sep 23 17:03	0°♄		min. Earth dist.	10487 Mar 30 15:28	14°♄12'24	0.27378 AU
morning set	10484 Sep 30 18:07	8°♄42'06		morning rise	10487 Apr 04 09:27	11°♄19'53	
	10484 Oct 17 23:51	0°♄		direct	10487 Apr 20 12:20	6°♄15'52	

greatest brilliancy	10487 Apr 30 13:39	8°♄09'44	-4.9m	evening rise	10489 Oct 03 14:21	1°♍09'03	
	10487 May 31 15:38	0°♄			10489 Oct 27 00:10	0°♄	
morning max el	10487 Jun 09 23:11	9°♄02'40	46°58'54		10489 Nov 20 12:44	0°♄	
desc. node	10487 Jun 26 13:51	26°♄32'51		desc. node	10489 Dec 11 03:03	24°♄58'28	
	10487 Jun 29 17:16	0°♄			10489 Dec 15 07:01	0°♄	
	10487 Jul 26 00:11	0°♄			10490 Jan 09 08:04	0°♄	
	10487 Aug 20 08:13	0°♄			10490 Feb 03 17:51	0°♄	
	10487 Sep 14 06:46	0°♄			10490 Mar 01 19:13	0°♄	
	10487 Oct 09 00:27	0°♄			10490 Mar 29 11:48	0°♄	
asc. node	10487 Oct 17 09:32	10°♄12'18		evening max el	10490 Apr 02 02:01	3°♄38'01	46°44'47
	10487 Nov 02 14:32	0°♄		asc. node	10490 Apr 03 02:24	4°♄38'43	
	10487 Nov 27 01:28	0°♄			10490 May 03 12:15	0°♄	
morning set	10487 Dec 09 16:45	15°♄33'10		greatest brilliancy	10490 May 12 18:41	4°♄27'40	-4.9m
	10487 Dec 21 10:05	0°♄		retrograde	10490 May 22 10:14	6°♄13'46	
max. Earth dist.	10488 Jan 14 02:01	29°♄12'43	1.72989 AU	evening set	10490 Jun 09 02:12	0°♄15'07	
	10488 Jan 14 17:19	0°♄			10490 Jun 09 12:20	30°♄	
				inferior conj	10490 Jun 12 02:13	28°♄25'49	8°32'28
superior conj	10488 Jan 15 13:27	1°♄02'11	0°48'59	minimum elong	10490 Jun 12 10:18	28°♄13'26	8°30'57
minimum elong	10488 Jan 15 22:42	1°♄30'45	0°49'05	min. Earth dist.	10490 Jun 12 08:34	28°♄16'05	0.27133 AU
desc. node	10488 Feb 06 01:41	27°♄38'05		morning rise	10490 Jun 15 18:23	26°♄12'36	
	10488 Feb 07 23:33	0°♄		direct	10490 Jul 02 18:19	20°♄37'12	
evening rise	10488 Feb 22 20:01	18°♄23'54		greatest brilliancy	10490 Jul 12 15:52	22°♄27'47	-4.9m
	10488 Mar 03 04:30	0°♄		desc. node	10490 Jul 24 00:54	28°♄15'38	
	10488 Mar 27 08:03	0°♄			10490 Jul 26 15:20	0°♄	
	10488 Apr 20 11:08	0°♄		morning max el	10490 Aug 21 21:35	22°♄44'38	46°33'08
	10488 May 14 16:15	0°♄			10490 Aug 29 01:56	0°♄	
asc. node	10488 May 28 22:09	17°♄31'19			10490 Sep 25 18:37	0°♄	
	10488 Jun 08 03:18	0°♄			10490 Oct 21 22:48	0°♄	
	10488 Jul 03 02:03	0°♄		asc. node	10490 Nov 13 22:26	27°♄04'37	
	10488 Jul 28 23:27	0°♄			10490 Nov 16 09:23	0°♄	
	10488 Aug 26 02:05	0°♄			10490 Dec 11 08:41	0°♄	
evening max el	10488 Aug 26 11:39	0°♄23'37	46°11'56		10491 Jan 05 00:06	0°♄	
desc. node	10488 Sep 17 20:16	20°♄04'50			10491 Jan 29 10:10	0°♄	
greatest brilliancy	10488 Oct 04 11:02	29°♄38'29	-4.8m	morning set	10491 Feb 17 02:17	23°♄04'24	
	10488 Oct 05 11:10	0°♄			10491 Feb 22 16:27	0°♄	
retrograde	10488 Oct 15 02:03	1°♄42'32		desc. node	10491 Mar 05 14:38	13°♄33'53	
	10488 Oct 24 08:15	30°♄			10491 Mar 18 19:32	0°♄	
evening set	10488 Nov 02 01:15	25°♄38'27		max. Earth dist.	10491 Mar 25 07:00	8°♄04'43	1.71896 AU
inferior conj	10488 Nov 05 15:27	23°♄24'46	-8°31'01				
minimum elong	10488 Nov 05 11:18	23°♄31'18	8°30'22	superior conj	10491 Mar 28 10:13	11°♄59'33	-0°51'56
min. Earth dist.	10488 Nov 05 06:47	23°♄38'24	0.29009 AU	minimum elong	10491 Mar 27 23:27	11°♄25'54	0°51'33
morning rise	10488 Nov 08 21:25	21°♄23'35			10491 Apr 11 19:48	0°♄	
direct	10488 Nov 27 01:32	15°♄11'46			10491 May 05 18:09	0°♄	
greatest brilliancy	10488 Dec 07 05:08	17°♄03'11	-4.7m	evening rise	10491 May 07 06:06	1°♄52'48	
	10488 Dec 28 16:26	0°♄			10491 May 29 16:21	0°♄	
asc. node	10489 Jan 08 20:20	9°♄36'55			10491 Jun 22 16:41	0°♄	
morning max el	10489 Jan 15 00:40	15°♄27'44	45°47'30	asc. node	10491 Jun 26 09:48	4°♄37'19	
	10489 Jan 29 07:48	0°♄			10491 Jul 16 21:31	0°♄	
	10489 Feb 25 09:44	0°♄			10491 Aug 10 09:45	0°♄	
	10489 Mar 22 23:15	0°♄			10491 Sep 04 10:05	0°♄	
	10489 Apr 16 18:55	0°♄			10491 Sep 30 08:02	0°♄	
desc. node	10489 Apr 30 15:08	16°♄58'53		desc. node	10491 Oct 16 06:44	17°♄35'21	
	10489 May 11 04:10	0°♄			10491 Oct 28 02:47	0°♄	
	10489 Jun 04 07:12	0°♄		evening max el	10491 Nov 06 13:00	9°♄20'26	45°47'22
	10489 Jun 28 07:16	0°♄			10491 Dec 01 05:09	0°♄	
morning set	10489 Jul 18 21:08	25°♄44'13		greatest brilliancy	10491 Dec 15 14:26	7°♄29'08	-4.7m
	10489 Jul 22 06:59	0°♄		retrograde	10491 Dec 25 07:53	9°♄11'39	
	10489 Aug 15 07:58	0°♄		evening set	10492 Jan 10 10:44	4°♄11'54	
asc. node	10489 Aug 21 09:03	7°♄31'47		inferior conj	10492 Jan 15 13:47	1°♄05'00	-5°02'00
				minimum elong	10492 Jan 15 23:16	0°♄50'09	4°59'10
superior conj	10489 Aug 26 21:47	14°♄24'43	0°13'25	min. Earth dist.	10492 Jan 16 06:07	0°♄39'27	0.28490 AU
minimum elong	10489 Aug 26 18:41	14°♄15'06	0°13'04		10492 Jan 17 07:27	30°♄	
behind sun begin	10489 Aug 26 04:26	13°♄30'48		morning rise	10492 Jan 21 11:26	27°♄31'26	
behind sun end	10489 Aug 27 08:56	14°♄59'24		direct	10492 Feb 05 22:21	22°♄52'01	
max. Earth dist.	10489 Aug 29 11:05	17°♄35'21	1.72314 AU	asc. node	10492 Feb 06 07:11	22°♄52'10	
	10489 Sep 08 10:52	0°♄		greatest brilliancy	10492 Feb 16 22:43	25°♄06'53	-4.8m
	10489 Oct 02 16:00	0°♄			10492 Feb 26 10:43	0°♄	

morning max el	10492 Mar 26 22:02	24° \approx 53'20	46°27'45	desc. node	10494 Nov 12 17:35	7° \mathfrak{Z} 16'09	
	10492 Mar 31 23:06	0° \mathfrak{H}			10494 Dec 02 10:44	0° \approx	
	10492 Apr 28 09:42	0° Υ			10494 Dec 29 15:43	0° \mathfrak{H}	
	10492 May 24 00:54	0° \mathfrak{B}		evening max el	10495 Jan 17 00:42	18° \mathfrak{H} 44'35	46°04'35
desc. node	10492 May 28 03:48	4° \mathfrak{B} 55'41			10495 Jan 29 05:33	0° Υ	
	10492 Jun 17 20:56	0° \mathfrak{II}		greatest brilliancy	10495 Feb 25 14:26	17° Υ 54'00	-4.8m
	10492 Jul 12 07:49	0° \mathfrak{E}		asc. node	10495 Mar 05 18:00	19° Υ 38'00	
	10492 Aug 05 15:00	0° \mathfrak{O}		retrograde	10495 Mar 07 09:39	19° Υ 41'13	
	10492 Aug 29 21:21	0° \mathfrak{M}		evening set	10495 Mar 22 11:31	15° Υ 15'21	
asc. node	10492 Sep 17 22:16	23° \mathfrak{M} 32'00		inferior conj	10495 Mar 28 05:27	11° Υ 50'18	5°23'26
	10492 Sep 23 03:50	0° \mathfrak{E}		minimum elong	10495 Mar 27 19:07	12° Υ 06'19	5°20'40
morning set	10492 Sep 28 10:23	6° \mathfrak{E} 30'52		min. Earth dist.	10495 Mar 28 05:56	11° Υ 49'34	0.27398 AU
	10492 Oct 17 10:32	0° \mathfrak{M}		morning rise	10495 Apr 02 02:22	8° Υ 53'35	
				direct	10495 Apr 18 01:36	3° Υ 53'36	
superior conj	10492 Nov 04 15:33	22° \mathfrak{M} 29'23	1°23'55	greatest brilliancy	10495 Apr 28 05:13	5° Υ 49'19	-4.9m
minimum elong	10492 Nov 04 11:15	22° \mathfrak{M} 16'08	1°24'15		10495 May 31 17:52	0° \mathfrak{B}	
max. Earth dist.	10492 Nov 05 17:32	23° \mathfrak{M} 49'34	1.73158 AU	morning max el	10495 Jun 07 12:29	6° \mathfrak{B} 38'53	46°58'53
	10492 Nov 10 17:33	0° \mathfrak{A}		desc. node	10495 Jun 25 15:44	25° \mathfrak{B} 49'30	
	10492 Dec 05 01:31	0° \mathfrak{Z}			10495 Jun 29 10:21	0° \mathfrak{II}	
evening rise	10492 Dec 11 09:15	7° \mathfrak{Z} 46'58			10495 Jul 25 14:18	0° \mathfrak{E}	
	10492 Dec 29 11:06	0° \approx			10495 Aug 19 20:53	0° \mathfrak{O}	
desc. node	10493 Jan 07 14:58	11° \approx 14'28			10495 Sep 13 18:34	0° \mathfrak{M}	
	10493 Jan 22 22:19	0° \mathfrak{H}			10495 Oct 08 11:41	0° \mathfrak{E}	
	10493 Feb 16 10:49	0° Υ		asc. node	10495 Oct 16 11:29	9° \mathfrak{E} 44'29	
	10493 Mar 13 01:04	0° \mathfrak{B}			10495 Nov 02 01:22	0° \mathfrak{M}	
	10493 Apr 06 19:51	0° \mathfrak{II}			10495 Nov 26 12:03	0° \mathfrak{A}	
asc. node	10493 Apr 30 12:56	28° \mathfrak{II} 10'50		morning set	10495 Dec 07 10:08	13° \mathfrak{A} 26'27	
	10493 May 02 02:17	0° \mathfrak{E}			10495 Dec 20 20:33	0° \mathfrak{Z}	
	10493 May 28 12:25	0° \mathfrak{O}		max. Earth dist.	10496 Jan 11 21:49	27° \mathfrak{Z} 13'18	1.73017 AU
evening max el	10493 Jun 13 23:58	17° \mathfrak{O} 21'08	46°49'17				
	10493 Jun 27 07:27	0° \mathfrak{M}		superior conj	10496 Jan 13 05:50	28° \mathfrak{Z} 52'13	0°51'44
greatest brilliancy	10493 Jul 23 10:56	17° \mathfrak{M} 42'33	-4.9m	minimum elong	10496 Jan 13 15:19	29° \mathfrak{Z} 21'29	0°51'50
retrograde	10493 Aug 03 07:23	19° \mathfrak{M} 53'25			10496 Jan 14 03:47	0° \approx	
evening set	10493 Aug 17 24:00	15° \mathfrak{M} 38'15		desc. node	10496 Feb 05 03:36	27° \approx 11'18	
desc. node	10493 Aug 20 11:42	14° \mathfrak{M} 13'27			10496 Feb 07 10:07	0° \mathfrak{H}	
inferior conj	10493 Aug 24 07:37	11° \mathfrak{M} 53'29	-0°58'14	evening rise	10496 Feb 20 11:00	16° \mathfrak{H} 08'35	
minimum elong	10493 Aug 24 05:23	11° \mathfrak{M} 56'56	0°57'44		10496 Mar 02 15:15	0° Υ	
min. Earth dist.	10493 Aug 23 18:08	12° \mathfrak{M} 14'18	0.27584 AU		10496 Mar 26 19:01	0° \mathfrak{B}	
morning rise	10493 Aug 30 11:34	8° \mathfrak{M} 15'47			10496 Apr 19 22:23	0° \mathfrak{II}	
direct	10493 Sep 14 06:53	4° \mathfrak{M} 02'24			10496 May 14 03:54	0° \mathfrak{E}	
greatest brilliancy	10493 Sep 23 21:38	5° \mathfrak{M} 44'00	-4.8m	asc. node	10496 May 28 00:00	17° \mathfrak{E} 00'23	
	10493 Oct 28 19:04	0° \mathfrak{E}			10496 Jun 07 15:34	0° \mathfrak{O}	
morning max el	10493 Nov 02 05:22	4° \mathfrak{E} 10'37	45°50'03		10496 Jul 02 15:24	0° \mathfrak{M}	
	10493 Nov 27 08:03	0° \mathfrak{M}			10496 Jul 28 15:00	0° \mathfrak{E}	
asc. node	10493 Dec 11 10:44	15° \mathfrak{M} 35'27		evening max el	10496 Aug 24 02:29	28° \mathfrak{E} 08'26	46°13'25
	10493 Dec 24 02:27	0° \mathfrak{A}			10496 Aug 25 23:59	0° \mathfrak{M}	
	10494 Jan 18 16:13	0° \mathfrak{Z}		desc. node	10496 Sep 16 22:20	18° \mathfrak{M} 55'53	
	10494 Feb 12 14:13	0° \approx		greatest brilliancy	10496 Oct 02 01:45	27° \mathfrak{M} 26'30	-4.8m
	10494 Mar 09 02:40	0° \mathfrak{H}		retrograde	10496 Oct 12 18:29	29° \mathfrak{M} 32'28	
desc. node	10494 Apr 02 04:00	29° \mathfrak{H} 45'24		evening set	10496 Oct 30 14:43	23° \mathfrak{M} 31'52	
	10494 Apr 02 08:41	0° Υ		inferior conj	10496 Nov 03 07:28	21° \mathfrak{M} 14'38	-8°26'37
	10494 Apr 26 10:01	0° \mathfrak{B}		minimum elong	10496 Nov 03 02:36	21° \mathfrak{M} 22'16	8°25'54
morning set	10494 May 02 04:26	7° \mathfrak{B} 13'17		min. Earth dist.	10496 Nov 02 21:38	21° \mathfrak{M} 30'05	0.28984 AU
	10494 May 20 08:12	0° \mathfrak{II}		morning rise	10496 Nov 06 14:34	19° \mathfrak{M} 12'00	
				direct	10496 Nov 24 17:04	13° \mathfrak{M} 02'01	
superior conj	10494 Jun 11 13:39	27° \mathfrak{II} 55'59	-1°21'08	greatest brilliancy	10496 Dec 04 20:07	14° \mathfrak{M} 53'07	-4.7m
minimum elong	10494 Jun 11 22:04	28° \mathfrak{II} 22'25	1°21'29		10496 Dec 29 00:13	0° \mathfrak{A}	
max. Earth dist.	10494 Jun 12 11:34	29° \mathfrak{II} 04'50	1.71322 AU	asc. node	10497 Jan 07 22:11	8° \mathfrak{A} 45'24	
	10494 Jun 13 05:08	0° \mathfrak{E}		morning max el	10497 Jan 12 16:33	13° \mathfrak{A} 17'17	45°46'50
	10494 Jul 07 02:54	0° \mathfrak{O}			10497 Jan 29 01:06	0° \mathfrak{Z}	
evening rise	10494 Jul 21 20:21	18° \mathfrak{O} 25'07			10497 Feb 24 23:34	0° \approx	
asc. node	10494 Jul 23 22:08	21° \mathfrak{O} 00'32			10497 Mar 22 11:40	0° \mathfrak{H}	
	10494 Jul 31 03:09	0° \mathfrak{M}			10497 Apr 16 06:36	0° Υ	
	10494 Aug 24 07:04	0° \mathfrak{E}		desc. node	10497 Apr 29 17:02	16° Υ 29'31	
	10494 Sep 17 16:04	0° \mathfrak{M}			10497 May 10 15:27	0° \mathfrak{B}	
	10494 Oct 12 08:39	0° \mathfrak{A}			10497 Jun 03 18:14	0° \mathfrak{II}	
	10494 Nov 06 12:48	0° \mathfrak{Z}			10497 Jun 27 18:07	0° \mathfrak{E}	

morning set	10497 Jul 16 10:05	23°☿21'03		greatest brilliancy	10499 Dec 13 05:49	5°♊18'18	-4.7m
	10497 Jul 21 17:41	0°♈		retrograde	10499 Dec 22 22:45	7°♊00'12	
	10497 Aug 14 18:33	0°♉		evening set	10500 Jan 08 05:02	1°♊56'31	
asc. node	10497 Aug 20 11:01	7°♉05'00			10500 Jan 11 10:35	30°♋☿	
superior conj	10497 Aug 24 12:05	12°♉07'06	0°09'50	inferior conj	10500 Jan 13 05:23	28°☿53'08	-5°18'49
minimum elong	10497 Aug 24 09:48	12°♉00'01	0°09'32	minimum elong	10500 Jan 13 15:08	28°☿37'51	5°15'58
behind sun begin	10497 Aug 23 14:02	10°♉58'32		min. Earth dist.	10500 Jan 13 21:41	28°☿27'35	0.28532 AU
behind sun end	10497 Aug 25 05:34	13°♉01'30		morning rise	10500 Jan 19 00:53	25°☿22'08	
max. Earth dist.	10497 Aug 27 01:45	15°♉18'56	1.72274 AU	direct	10500 Feb 03 14:25	20°☿39'51	
	10497 Sep 07 21:22	0°♊		asc. node	10500 Feb 05 09:19	20°☿43'38	
evening rise	10497 Oct 01 06:52	28°♊59'19		greatest brilliancy	10500 Feb 14 14:16	22°☿53'50	-4.8m
	10497 Oct 02 02:31	0°♋			10500 Feb 27 11:10	0°♋	
	10497 Oct 26 10:48	0°♌		morning max el	10500 Mar 25 12:42	22°♋36'46	46°26'10
	10497 Nov 19 23:38	0°♍			10500 Apr 01 18:35	0°♌	
desc. node	10497 Dec 10 04:54	24°☿30'11			10500 Apr 29 00:30	0°♍	
	10497 Dec 14 18:21	0°♎		desc. node	10500 May 24 13:51	0°♎	
	10498 Jan 08 20:06	0°♏			10500 May 28 05:41	4°♏23'06	
	10498 Feb 03 07:05	0°♐			10500 Jun 18 08:57	0°♏	
	10498 Mar 01 10:47	0°♑			10500 Jul 12 19:17	0°♐	
	10498 Mar 29 09:20	0°♒			10500 Aug 06 02:05	0°♑	
evening max el	10498 Mar 30 16:20	1°♒17'43	46°43'39	asc. node	10500 Aug 30 08:10	0°♒	
asc. node	10498 Apr 02 04:22	3°♒46'22			10500 Sep 18 00:13	23°♒05'03	
	10498 May 05 11:18	0°♓		morning set	10500 Sep 23 14:28	0°♓	
greatest brilliancy	10498 May 10 07:05	2°☿02'13	-4.9m		10500 Sep 27 02:11	4°♓18'43	
retrograde	10498 May 19 23:40	3°☿48'47			10500 Oct 17 21:01	0°♔	
	10498 Jun 02 18:33	30°♔♒		superior conj	10500 Nov 03 08:40	20°♔21'51	1°23'06
evening set	10498 Jun 06 18:00	27°♒45'29		minimum elong	10500 Nov 03 03:42	20°♔06'33	1°23'25
inferior conj	10498 Jun 09 14:57	26°♒00'38	8°41'12	max. Earth dist.	10500 Nov 04 11:52	21°♔45'49	1.73139 AU
minimum elong	10498 Jun 09 22:19	25°♒49'19	8°39'52		10500 Nov 11 03:59	0°♌	
min. Earth dist.	10498 Jun 09 20:44	25°♒51'46	0.27142 AU		10500 Dec 05 12:00	0°♓	
morning rise	10498 Jun 13 02:40	23°♒53'59		evening rise	10500 Dec 10 01:49	5°☿37'55	
direct	10498 Jun 30 07:43	18°♒11'57			10500 Dec 29 21:43	0°♋	
greatest brilliancy	10498 Jul 10 03:41	20°♒01'35	-4.9m	desc. node	10501 Jan 07 16:54	10°♋47'29	
desc. node	10498 Jul 23 02:54	26°♒52'11			10501 Jan 23 09:14	0°♌	
	10498 Jul 27 12:15	0°☿			10501 Feb 16 22:09	0°♍	
morning max el	10498 Aug 19 12:10	20°☿25'35	46°34'42		10501 Mar 13 12:57	0°♎	
	10498 Aug 28 21:57	0°♈			10501 Apr 07 08:37	0°♏	
	10498 Sep 25 09:40	0°♉		asc. node	10501 Apr 30 14:51	27°♏35'05	
	10498 Oct 21 11:43	0°♊			10501 May 02 16:34	0°☿	
asc. node	10498 Nov 13 00:17	26°♊34'46			10501 May 29 06:09	0°♈	
	10498 Nov 15 21:10	0°♋		evening max el	10501 Jun 12 13:38	14°♈59'31	46°49'51
	10498 Dec 10 19:49	0°♌			10501 Jun 28 13:52	0°♉	
	10499 Jan 04 10:53	0°♍		greatest brilliancy	10501 Jul 22 03:11	15°♉25'22	-4.9m
	10499 Jan 28 20:46	0°♎		retrograde	10501 Aug 01 21:20	17°♉34'18	
morning set	10499 Feb 14 17:27	20°♎50'15		evening set	10501 Aug 16 14:35	13°♉19'15	
	10499 Feb 22 02:57	0°♏		desc. node	10501 Aug 20 13:46	11°♉01'23	
desc. node	10499 Mar 04 16:40	13°♏07'33		inferior conj	10501 Aug 22 21:43	9°♉35'24	-0°35'34
	10499 Mar 18 06:02	0°♐		minimum elong	10501 Aug 22 20:20	9°♉37'32	0°35'21
max. Earth dist.	10499 Mar 22 19:17	5°♐40'33	1.71934 AU	min. Earth dist.	10501 Aug 22 09:35	9°♉54'08	0.27542 AU
				morning rise	10501 Aug 29 02:46	5°♉55'53	
superior conj	10499 Mar 25 23:11	9°♐37'20	-0°48'51	direct	10501 Sep 12 20:07	1°♉44'45	
minimum elong	10499 Mar 25 12:48	9°♐04'56	0°48'27	greatest brilliancy	10501 Sep 22 12:13	3°♉27'03	-4.8m
	10499 Apr 11 06:21	0°♑			10501 Oct 29 19:17	0°♊	
evening rise	10499 May 04 17:52	29°♑25'42		morning max el	10501 Oct 31 18:42	1°♊52'56	45°51'05
	10499 May 05 04:48	0°♒			10501 Nov 28 00:05	0°♋	
	10499 May 29 03:09	0°☿		asc. node	10501 Dec 11 12:40	15°♋00'32	
	10499 Jun 22 03:40	0°♈			10501 Dec 24 15:45	0°♌	
asc. node	10499 Jun 25 11:42	4°♈08'52			10502 Jan 19 04:14	0°♍	
	10499 Jul 16 08:48	0°♉			10502 Feb 13 01:35	0°♎	
	10499 Aug 09 21:31	0°♊			10502 Mar 09 13:42	0°♏	
	10499 Sep 03 22:44	0°♋		desc. node	10502 Apr 02 05:47	29°♏17'10	
	10499 Sep 29 22:31	0°♌			10502 Apr 02 19:33	0°♍	
desc. node	10499 Oct 15 08:42	16°♌56'22			10502 Apr 26 20:48	0°♎	
	10499 Oct 27 22:01	0°♍		morning set	10502 Apr 30 15:24	4°♏43'38	
evening max el	10499 Nov 04 04:34	7°☿09'47	45°47'34		10502 May 20 18:54	0°♏	
	10499 Dec 02 05:58	0°♎					

superior conj	10502 Jun 10 01:25	25° Π 28'39	-1°22'32	greatest brilliancy	10504 Dec 03 10:35	12° \mathbb{M} 41'51	-4.7m
minimum elong	10502 Jun 10 09:03	25° Π 52'39	1°22'55		10504 Dec 30 06:03	0° \mathbb{A}	
max. Earth dist.	10502 Jun 10 15:49	26° Π 13'52	1.71309 AU	asc. node	10505 Jan 08 00:17	7° \mathbb{A} 54'34	
	10502 Jun 13 15:48	0° \mathbb{C}		morning max el	10505 Jan 11 08:59	11° \mathbb{A} 07'24	45°46'00
	10502 Jul 07 13:34	0° Ω			10505 Jan 29 18:23	0° \mathbb{Z}	
evening rise	10502 Jul 20 09:03	16° Ω 01'30			10505 Feb 25 13:37	0° \approx	
asc. node	10502 Jul 24 00:07	20° Ω 33'22			10505 Mar 23 00:19	0° \mathbb{H}	
	10502 Jul 31 13:52	0° \mathbb{M}			10505 Apr 16 18:32	0° \mathbb{Y}	
	10502 Aug 24 17:55	0° $\underline{\mathbf{L}}$		desc. node	10505 Apr 29 18:54	15° \mathbb{Y} 59'17	
	10502 Sep 18 03:11	0° \mathbb{M}			10505 May 11 02:57	0° \mathbb{B}	
	10502 Oct 12 20:14	0° \mathbb{A}			10505 Jun 04 05:29	0° Π	
	10502 Nov 07 01:13	0° \mathbb{Z}			10505 Jun 28 05:12	0° \mathbb{C}	
desc. node	10502 Nov 12 19:25	6° \mathbb{Z} 44'24		morning set	10505 Jul 14 23:00	20° \mathbb{C} 57'00	
	10502 Dec 03 00:49	0° \approx			10505 Jul 22 04:40	0° Ω	
	10502 Dec 30 09:28	0° \mathbb{H}			10505 Aug 15 05:25	0° \mathbb{M}	
evening max el	10503 Jan 15 14:12	16° \mathbb{H} 25'44	46°03'29	asc. node	10505 Aug 20 12:56	6° \mathbb{M} 37'13	
	10503 Jan 30 12:36	0° \mathbb{Y}					
greatest brilliancy	10503 Feb 24 03:45	15° \mathbb{Y} 32'58	-4.8m	superior conj	10505 Aug 23 02:21	9° \mathbb{M} 48'25	0°06'15
retrograde	10503 Mar 05 23:07	17° \mathbb{Y} 20'34		minimum elong	10505 Aug 23 00:55	9° \mathbb{M} 43'56	0°05'57
asc. node	10503 Mar 05 19:59	17° \mathbb{Y} 20'33		behind sun begin	10505 Aug 22 02:07	8° \mathbb{M} 32'57	
evening set	10503 Mar 20 22:39	12° \mathbb{Y} 57'22		behind sun end	10505 Aug 23 23:43	10° \mathbb{M} 54'55	
inferior conj	10503 Mar 26 19:09	9° \mathbb{Y} 29'06	5°04'01	max. Earth dist.	10505 Aug 25 17:55	13° \mathbb{M} 06'15	1.72234 AU
minimum elong	10503 Mar 26 09:10	9° \mathbb{Y} 44'32	5°01'18		10505 Sep 08 08:09	0° $\underline{\mathbf{L}}$	
min. Earth dist.	10503 Mar 26 20:12	9° \mathbb{Y} 27'29	0.27419 AU	evening rise	10505 Sep 29 23:27	26° $\underline{\mathbf{L}}$ 48'50	
morning rise	10503 Mar 31 19:17	6° \mathbb{Y} 27'58			10505 Oct 02 13:18	0° \mathbb{M}	
direct	10503 Apr 16 15:23	1° \mathbb{Y} 31'37			10505 Oct 26 21:44	0° \mathbb{A}	
greatest brilliancy	10503 Apr 26 20:37	3° \mathbb{Y} 29'03	-4.9m		10505 Nov 20 10:50	0° \mathbb{Z}	
	10503 Jun 01 18:43	0° \mathbb{B}		desc. node	10505 Dec 10 06:55	24° \mathbb{Z} 01'22	
morning max el	10503 Jun 06 02:58	4° \mathbb{B} 18'08	46°58'49		10505 Dec 15 06:03	0° \approx	
desc. node	10503 Jun 25 17:41	25° \mathbb{B} 06'55			10506 Jan 09 08:35	0° \mathbb{H}	
	10503 Jun 30 03:06	0° Π			10506 Feb 03 20:53	0° \mathbb{Y}	
	10503 Jul 26 04:16	0° \mathbb{C}			10506 Mar 02 03:08	0° \mathbb{B}	
	10503 Aug 20 09:29	0° Ω		evening max el	10506 Mar 29 06:52	28° \mathbb{B} 56'43	46°42'34
	10503 Sep 14 06:21	0° \mathbb{M}			10506 Mar 30 08:19	0° Π	
	10503 Oct 08 22:56	0° $\underline{\mathbf{L}}$		asc. node	10506 Apr 02 06:18	2° Π 51'32	
asc. node	10503 Oct 16 13:17	9° $\underline{\mathbf{L}}$ 16'01		greatest brilliancy	10506 May 08 19:47	29° Π 36'07	-4.9m
	10503 Nov 02 12:17	0° \mathbb{M}			10506 May 10 00:37	0° \mathbb{C}	
	10503 Nov 26 22:46	0° \mathbb{A}		retrograde	10506 May 18 12:46	1° \mathbb{C} 22'31	
morning set	10503 Dec 06 03:19	11° \mathbb{A} 18'38			10506 May 26 17:01	30° \mathbb{R} Π	
	10503 Dec 21 07:11	0° \mathbb{Z}		evening set	10506 Jun 05 09:34	25° Π 15'18	
max. Earth dist.	10504 Jan 10 17:56	25° \mathbb{Z} 14'16	1.73041 AU	inferior conj	10506 Jun 08 03:42	23° Π 34'26	8°48'56
				minimum elong	10506 Jun 08 10:17	23° Π 24'19	8°47'48
superior conj	10504 Jan 11 22:00	26° \mathbb{Z} 40'57	0°54'25	min. Earth dist.	10506 Jun 08 08:55	23° Π 26'24	0.27147 AU
minimum elong	10504 Jan 12 07:38	27° \mathbb{Z} 10'44	0°54'31	morning rise	10506 Jun 11 11:03	21° Π 34'04	
	10504 Jan 14 14:26	0° \approx		direct	10506 Jun 28 21:00	15° Π 45'50	
desc. node	10504 Feb 05 05:34	26° \approx 44'11		greatest brilliancy	10506 Jul 08 15:35	17° Π 34'20	-4.9m
	10504 Feb 07 20:52	0° \mathbb{H}		desc. node	10506 Jul 23 05:00	25° Π 30'38	
evening rise	10504 Feb 19 01:47	13° \mathbb{H} 52'19			10506 Jul 29 04:16	0° \mathbb{C}	
	10504 Mar 03 02:09	0° \mathbb{Y}		morning max el	10506 Aug 18 01:59	18° \mathbb{C} 03'29	46°36'10
	10504 Mar 27 06:07	0° \mathbb{B}			10506 Aug 29 17:44	0° Ω	
	10504 Apr 20 09:47	0° Π			10506 Sep 26 00:52	0° \mathbb{M}	
	10504 May 14 15:44	0° \mathbb{C}			10506 Oct 22 00:54	0° $\underline{\mathbf{L}}$	
asc. node	10504 May 28 01:56	16° \mathbb{C} 29'07		asc. node	10506 Nov 13 02:15	26° $\underline{\mathbf{L}}$ 04'17	
	10504 Jun 08 04:03	0° Ω			10506 Nov 16 09:15	0° \mathbb{M}	
	10504 Jul 03 05:00	0° \mathbb{M}			10506 Dec 11 07:17	0° \mathbb{A}	
	10504 Jul 29 06:57	0° $\underline{\mathbf{L}}$			10507 Jan 04 22:01	0° \mathbb{Z}	
evening max el	10504 Aug 22 18:16	25° $\underline{\mathbf{L}}$ 55'12	46°14'55		10507 Jan 29 07:44	0° \approx	
	10504 Aug 26 22:55	0° \mathbb{M}		morning set	10507 Feb 13 08:31	18° \approx 34'29	
desc. node	10504 Sep 17 00:15	17° \mathbb{M} 44'21			10507 Feb 22 13:53	0° \mathbb{H}	
greatest brilliancy	10504 Sep 30 16:03	25° \mathbb{M} 13'45	-4.8m	desc. node	10507 Mar 04 18:30	12° \mathbb{H} 39'13	
retrograde	10504 Oct 11 11:13	27° \mathbb{M} 21'49			10507 Mar 18 17:00	0° \mathbb{Y}	
evening set	10504 Oct 29 03:58	21° \mathbb{M} 25'07		max. Earth dist.	10507 Mar 21 04:35	3° \mathbb{Y} 05'41	1.71977 AU
inferior conj	10504 Nov 01 23:28	19° \mathbb{M} 03'52	-8°21'25				
minimum elong	10504 Nov 01 17:54	19° \mathbb{M} 12'34	8°20'36	superior conj	10507 Mar 24 11:55	7° \mathbb{Y} 13'03	-0°45'40
min. Earth dist.	10504 Nov 01 12:10	19° \mathbb{M} 21'33	0.28960 AU	minimum elong	10507 Mar 24 02:01	6° \mathbb{Y} 42'10	0°45'15
morning rise	10504 Nov 05 07:59	16° \mathbb{M} 59'21			10507 Apr 11 17:23	0° \mathbb{B}	
direct	10504 Nov 23 09:07	10° \mathbb{M} 51'46		evening rise	10507 May 03 05:15	26° \mathbb{B} 56'01	




































































































































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	10507 May 29 14:22	0°♂		10509 Sep 15 22:09	0°♂	
	10507 Jun 22 15:04	0°♂	greatest brilliancy	10509 Sep 20 02:56	1°♂08'57	-4.8m
asc. node	10507 Jun 25 13:43	3°♂39'40	morning max el	10509 Oct 29 08:29	29°♂35'16	45°52'12
	10507 Jul 16 20:29	0°♂		10509 Oct 29 18:47	0°♂	
	10507 Aug 10 09:44	0°♂		10509 Nov 27 16:10	0°♂	
	10507 Sep 04 11:54	0°♂	asc. node	10509 Dec 10 14:40	14°♂25'11	
	10507 Sep 30 13:37	0°♂		10509 Dec 24 05:14	0°♂	
desc. node	10507 Oct 15 10:38	16°♂15'38		10510 Jan 18 16:29	0°♂	
	10507 Oct 28 18:20	0°♂		10510 Feb 12 13:12	0°♂	
evening max el	10507 Nov 02 19:21	4°♂55'59 45°47'49		10510 Mar 09 00:58	0°♂	
	10507 Dec 04 17:59	0°♂	desc. node	10510 Apr 01 07:41	28°♂48'35	
greatest brilliancy	10507 Dec 11 21:24	3°♂06'41 -4.7m		10510 Apr 02 06:40	0°♂	
retrograde	10507 Dec 21 13:17	4°♂48'00		10510 Apr 26 07:50	0°♂	
	10508 Jan 06 09:26	30°♂3	morning set	10510 Apr 28 02:27	2°♂13'23	
evening set	10508 Jan 06 23:21	29°♂40'09		10510 May 20 05:54	0°♂	
inferior conj	10508 Jan 11 21:04	26°♂40'29 -5°34'53				
minimum elong	10508 Jan 12 06:59	26°♂24'54 5°32'04	superior conj	10510 Jun 07 12:51	22°♂59'15 -1°23'46	
min. Earth dist.	10508 Jan 12 13:28	26°♂14'43 0.28576 AU	minimum elong	10510 Jun 07 19:40	23°♂20'39 1°24'12	
morning rise	10508 Jan 17 14:14	23°♂12'17	max. Earth dist.	10510 Jun 07 20:42	23°♂23'56 1.71305 AU	
direct	10508 Feb 02 06:06	18°♂26'46		10510 Jun 13 02:47	0°♂	
asc. node	10508 Feb 05 11:14	18°♂38'49		10510 Jul 07 00:34	0°♂	
greatest brilliancy	10508 Feb 13 06:20	20°♂40'29 -4.8m	evening rise	10510 Jul 17 21:12	13°♂35'10	
	10508 Feb 29 05:38	0°♂	asc. node	10510 Jul 23 02:00	20°♂04'48	
morning max el	10508 Mar 23 02:47	20°♂17'24 46°24'26		10510 Jul 31 00:54	0°♂	
	10508 Apr 01 14:02	0°♂		10510 Aug 24 05:03	0°♂	
	10508 Apr 28 15:38	0°♂		10510 Sep 17 14:33	0°♂	
	10508 May 24 03:15	0°♂		10510 Oct 12 08:04	0°♂	
desc. node	10508 May 27 07:40	3°♂49'22		10510 Nov 06 13:57	0°♂	
	10508 Jun 17 21:25	0°♂	desc. node	10510 Nov 11 21:29	6°♂12'31	
	10508 Jul 12 07:09	0°♂		10510 Dec 02 15:16	0°♂	
	10508 Aug 05 13:33	0°♂		10510 Dec 30 03:52	0°♂	
	10508 Aug 29 19:20	0°♂	evening max el	10511 Jan 13 04:43	14°♂09'08 46°02'27	
asc. node	10508 Sep 17 01:59	22°♂36'28		10511 Jan 30 22:28	0°♂	
	10508 Sep 23 01:26	0°♂	greatest brilliancy	10511 Feb 21 16:39	13°♂11'37 -4.8m	
morning set	10508 Sep 24 17:51	2°♂04'57	retrograde	10511 Mar 03 13:09	15°♂00'04	
	10508 Oct 17 07:52	0°♂	asc. node	10511 Mar 04 21:52	14°♂57'49	
			evening set	10511 Mar 18 10:11	10°♂39'20	
superior conj	10508 Nov 01 01:51	18°♂13'22 1°22'11	inferior conj	10511 Mar 24 08:56	7°♂08'01 4°44'14	
minimum elong	10508 Oct 31 20:16	17°♂56'10 1°22'28	minimum elong	10511 Mar 23 23:22	7°♂22'48 4°41'34	
max. Earth dist.	10508 Nov 02 04:33	19°♂35'47 1.73121 AU	min. Earth dist.	10511 Mar 24 10:13	7°♂06'02 0.27441 AU	
	10508 Nov 10 14:47	0°♂	morning rise	10511 Mar 29 12:12	4°♂02'45	
	10508 Dec 04 22:51	0°♂		10511 Apr 07 21:24	30°♂	
evening rise	10508 Dec 07 18:35	3°♂28'25	direct	10511 Apr 14 05:48	29°♂10'03	
	10508 Dec 29 08:43	0°♂		10511 Apr 20 18:56	0°♂	
desc. node	10509 Jan 06 18:55	10°♂19'40	greatest brilliancy	10511 Apr 24 11:30	1°♂08'25 -4.9m	
	10509 Jan 22 20:30	0°♂		10511 Jun 01 18:27	0°♂	
	10509 Feb 16 09:51	0°♂	morning max el	10511 Jun 03 18:00	1°♂58'47 46°58'28	
	10509 Mar 13 01:17	0°♂	desc. node	10511 Jun 24 19:45	24°♂24'48	
	10509 Apr 06 21:54	0°♂		10511 Jun 29 19:39	0°♂	
asc. node	10509 Apr 29 16:48	26°♂57'42		10511 Jul 25 18:17	0°♂	
	10509 May 02 07:33	0°♂		10511 Aug 19 22:13	0°♂	
	10509 May 29 00:55	0°♂		10511 Sep 13 18:16	0°♂	
evening max el	10509 Jun 10 02:45	12°♂34'52 46°50'31		10511 Oct 08 10:18	0°♂	
	10509 Jun 28 23:37	0°♂	asc. node	10511 Oct 15 15:17	8°♂47'50	
greatest brilliancy	10509 Jul 19 19:07	13°♂06'01 -4.9m		10511 Nov 01 23:15	0°♂	
retrograde	10509 Jul 30 11:13	15°♂13'40		10511 Nov 26 09:31	0°♂	
evening set	10509 Aug 14 05:13	10°♂58'05	morning set	10511 Dec 03 20:28	9°♂10'41	
desc. node	10509 Aug 19 15:39	7°♂46'35		10511 Dec 20 17:51	0°♂	
inferior conj	10509 Aug 20 11:42	7°♂15'41 -0°12'46	max. Earth dist.	10512 Jan 08 14:20	23°♂16'05 1.73062 AU	
minimum elong	10509 Aug 20 11:12	7°♂16'28 0°12'51				
transit middle	10509 Aug 20 11:12	7°♂16'28 0°12'51	superior conj	10512 Jan 09 14:17	24°♂30'03 0°56'59	
transit begin	10509 Aug 20 08:38	7°♂20'24	minimum elong	10512 Jan 10 00:03	25°♂00'10 0°57'07	
transit end	10509 Aug 20 13:45	7°♂12'31		10512 Jan 14 01:08	0°♂	
min. Earth dist.	10509 Aug 20 00:55	7°♂32'18 0.27499 AU	desc. node	10512 Feb 04 07:25	26°♂16'36	
morning rise	10509 Aug 26 17:42	3°♂34'47		10512 Feb 07 07:39	0°♂	
	10509 Sep 04 23:34	30°♂	evening rise	10512 Feb 16 16:49	11°♂36'43	

	10512 Mar 02 13:04	0°Υ			10514 Sep 25 15:26	0°Π		
	10512 Mar 26 17:14	0°Ϸ			10514 Oct 21 13:36	0°♁		
	10512 Apr 19 21:10	0°Π		asc. node	10514 Nov 12 04:12	25°♁34'51		
	10512 May 14 03:32	0°Ϸ			10514 Nov 15 20:58	0°Π		
asc. node	10512 May 27 04:00	15°Ϸ58'24			10514 Dec 10 18:25	0°Ϸ		
	10512 Jun 07 16:33	0°Ω			10515 Jan 04 08:49	0°Ϸ		
	10512 Jul 02 18:41	0°Π			10515 Jan 28 18:21	0°≈		
	10512 Jul 28 23:11	0°♁		morning set	10515 Feb 10 23:43	16°≈20'18		
evening max el	10512 Aug 20 10:43	23°♁43'24	46°16'19		10515 Feb 22 00:26	0°Ϸ		
	10512 Aug 26 23:01	0°Π		desc. node	10515 Mar 03 20:22	12°Ϸ12'11		
desc. node	10512 Sep 16 02:15	16°Π30'32			10515 Mar 18 03:34	0°Υ		
greatest brilliancy	10512 Sep 28 06:45	23°Π01'08	-4.8m	max. Earth dist.	10515 Mar 18 15:14	0°Υ36'21	1.72023 AU	
retrograde	10512 Oct 09 03:51	25°Π10'37						
evening set	10512 Oct 26 17:02	19°Π18'27		superior conj	10515 Mar 22 00:53	4°Υ50'49	-0°42'25	
min. Earth dist.	10512 Oct 30 02:38	17°Π12'50	0.28928 AU	minimum elong	10515 Mar 21 15:31	4°Υ21'36	0°42'00	
inferior conj	10512 Oct 30 15:23	16°Π52'51	-8°15'34		10515 Apr 11 04:02	0°Ϸ		
minimum elong	10512 Oct 30 09:10	17°Π02'35	8°14'38	evening rise	10515 Apr 30 16:54	24°Ϸ28'26		
morning rise	10512 Nov 03 01:30	14°Π46'04			10515 May 05 02:41	0°Π		
direct	10512 Nov 21 01:19	8°Π41'34			10515 May 29 01:15	0°Ϸ		
greatest brilliancy	10512 Dec 01 00:32	10°Π30'02	-4.7m		10515 Jun 22 02:05	0°Ω		
	10512 Dec 30 09:47	0°Ϸ		asc. node	10515 Jun 24 15:35	3°Ω11'06		
asc. node	10513 Jan 07 02:15	7°Ϸ04'41			10515 Jul 16 07:48	0°Π		
morning max el	10513 Jan 09 00:50	8°Ϸ56'35	45°45'12		10515 Aug 09 21:32	0°♁		
	10513 Jan 29 11:10	0°Ϸ			10515 Sep 04 00:40	0°Π		
	10513 Feb 25 03:21	0°≈			10515 Sep 30 04:26	0°Ϸ		
	10513 Mar 22 12:44	0°Ϸ		desc. node	10515 Oct 14 12:42	15°Ϸ36'05		
	10513 Apr 16 06:15	0°Υ			10515 Oct 28 14:49	0°Ϸ		
desc. node	10513 Apr 28 20:53	15°Υ30'01		evening max el	10515 Oct 31 09:25	2°Ϸ41'43	45°47'59	
	10513 May 10 14:15	0°Ϸ			10515 Dec 07 00:36	0°≈		
	10513 Jun 03 16:31	0°Π		greatest brilliancy	10515 Dec 09 12:59	0°≈56'21	-4.7m	
	10513 Jun 27 16:04	0°Ϸ		retrograde	10515 Dec 19 04:09	2°≈37'31		
morning set	10513 Jul 12 12:11	18°Ϸ34'29			10515 Dec 30 17:56	30°Ϸ		
	10513 Jul 21 15:23	0°Ω		evening set	10516 Jan 04 17:47	27°Ϸ25'08		
	10513 Aug 14 16:03	0°Π		inferior conj	10516 Jan 09 12:52	24°Ϸ29'25	-5°50'22	
asc. node	10513 Aug 19 14:46	6°Π09'46		minimum elong	10516 Jan 09 22:54	24°Ϸ13'39	5°47'37	
				min. Earth dist.	10516 Jan 10 05:28	24°Ϸ03'21	0.28621 AU	
superior conj	10513 Aug 20 16:38	7°Π30'22	0°02'39	morning rise	10516 Jan 15 03:36	21°Ϸ04'27		
minimum elong	10513 Aug 20 16:03	7°Π28'31	0°02'22	direct	10516 Jan 30 21:39	16°Ϸ15'07		
behind sun begin	10513 Aug 19 15:54	6°Π13'18		asc. node	10516 Feb 04 13:08	16°Ϸ40'00		
behind sun end	10513 Aug 21 16:12	8°Π43'44		greatest brilliancy	10516 Feb 10 23:01	18°Ϸ29'24	-4.8m	
max. Earth dist.	10513 Aug 23 11:30	10°Π58'33	1.72197 AU		10516 Feb 29 18:43	0°≈		
	10513 Sep 07 18:45	0°♁		morning max el	10516 Mar 20 17:09	18°≈00'08	46°22'49	
evening rise	10513 Sep 27 15:51	24°♁38'18			10516 Apr 01 08:26	0°Ϸ		
	10513 Oct 01 23:56	0°Π			10516 Apr 28 06:06	0°Υ		
	10513 Oct 26 08:30	0°Ϸ			10516 May 23 16:05	0°Ϸ		
	10513 Nov 19 21:52	0°Ϸ		desc. node	10516 May 26 09:37	3°Ϸ17'03		
desc. node	10513 Dec 09 08:52	23°Ϸ33'01			10516 Jun 17 09:23	0°Π		
	10513 Dec 14 17:33	0°≈			10516 Jul 11 18:34	0°Ϸ		
	10514 Jan 08 20:53	0°Ϸ			10516 Aug 05 00:34	0°Ω		
	10514 Feb 03 10:33	0°Υ			10516 Aug 29 06:03	0°Π		
	10514 Mar 01 19:28	0°Ϸ		asc. node	10516 Sep 16 03:58	22°Π09'57		
evening max el	10514 Mar 26 20:51	26°Ϸ35'10	46°41'21	morning set	10516 Sep 22 09:46	29°Π53'14		
	10514 Mar 30 07:58	0°Π			10516 Sep 22 11:57	0°♁		
asc. node	10514 Apr 01 08:22	1°Π56'47			10516 Oct 16 18:15	0°Π		
greatest brilliancy	10514 May 06 09:14	27°Π12'03	-4.9m					
retrograde	10514 May 16 01:31	28°Π57'37		superior conj	10516 Oct 29 19:18	16°Π07'08	1°21'09	
evening set	10514 Jun 03 01:00	22°Π47'11		minimum elong	10516 Oct 29 13:07	15°Π48'05	1°21'24	
inferior conj	10514 Jun 05 16:38	21°Π09'54	8°55'43	max. Earth dist.	10516 Oct 30 21:46	17°Π28'51	1.73105 AU	
minimum elong	10514 Jun 05 22:22	21°Π01'04	8°54'45		10516 Nov 10 01:08	0°Ϸ		
min. Earth dist.	10514 Jun 05 21:37	21°Π02'15	0.27149 AU		10516 Dec 04 09:16	0°Ϸ		
morning rise	10514 Jun 08 19:46	19°Π15'32		evening rise	10516 Dec 05 11:39	1°Ϸ21'09		
direct	10514 Jun 26 10:01	13°Π21'22			10516 Dec 28 19:20	0°≈		
greatest brilliancy	10514 Jul 06 04:08	15°Π09'13	-4.9m	desc. node	10517 Jan 05 20:45	9°≈52'33		
desc. node	10514 Jul 22 06:50	24°Π12'38			10517 Jan 22 07:25	0°Ϸ		
	10514 Jul 29 15:37	0°Ϸ			10517 Feb 15 21:11	0°Υ		
morning max el	10514 Aug 15 14:49	15°Ϸ40'08	46°37'39		10517 Mar 12 13:14	0°Ϸ		
	10514 Aug 29 12:27	0°Ω			10517 Apr 06 10:49	0°Π		

asc. node	10517 Apr 28 18:51	26° Π 21'43		10519 Jul 25 07:54	0° \mathfrak{G}	
	10517 May 01 22:15	0° \mathfrak{G}		10519 Aug 19 10:36	0° \mathcal{O}	
	10517 May 28 19:43	0° \mathcal{O}		10519 Sep 13 05:55	0° \mathfrak{M}	
evening max el	10517 Jun 07 15:59	10° \mathcal{O} 11'49	46°51'06	10519 Oct 07 21:26	0° \mathfrak{A}	
	10517 Jun 29 12:07	0° \mathfrak{M}		10519 Oct 14 17:12	8° \mathfrak{A} 20'00	
greatest brilliancy	10517 Jul 17 10:26	10° \mathfrak{M} 46'53	-4.9m	10519 Nov 01 10:02	0° \mathfrak{M}	
retrograde	10517 Jul 28 01:27	12° \mathfrak{M} 54'05		10519 Nov 25 20:05	0° \mathfrak{X}	
evening set	10517 Aug 11 19:57	8° \mathfrak{M} 37'24		10519 Dec 01 13:51	7° \mathfrak{X} 03'58	
min. Earth dist.	10517 Aug 17 15:57	5° \mathfrak{M} 11'31	0.27459 AU	10519 Dec 20 04:19	0° \mathfrak{Z}	
inferior conj	10517 Aug 18 01:34	4° \mathfrak{M} 56'43	0°10'17	max. Earth dist.	10520 Jan 06 10:27	21° \mathfrak{Z} 17'41 1.73079 AU
minimum elong	10517 Aug 18 01:57	4° \mathfrak{M} 56'07	0°09'54			
transit middle	10517 Aug 18 01:57	4° \mathfrak{M} 56'07	0°09'54	superior conj	10520 Jan 07 06:54	22° \mathfrak{Z} 20'47 0°59'28
transit begin	10517 Aug 17 22:42	5° \mathfrak{M} 01'08		minimum elong	10520 Jan 07 16:42	22° \mathfrak{Z} 51'02 0°59'37
transit end	10517 Aug 18 05:13	4° \mathfrak{M} 51'06			10520 Jan 13 11:37	0° \approx
desc. node	10517 Aug 18 17:42	4° \mathfrak{M} 31'55		desc. node	10520 Feb 03 09:21	25° \approx 49'55
morning rise	10517 Aug 24 08:25	1° \mathfrak{M} 14'58			10520 Feb 06 18:15	0° \mathfrak{H}
	10517 Aug 26 20:15	30° \mathfrak{R} \mathcal{O}		evening rise	10520 Feb 14 08:02	9° \mathfrak{H} 22'19
direct	10517 Sep 07 22:06	27° \mathcal{O} 06'32			10520 Mar 01 23:50	0° \mathfrak{Y}
greatest brilliancy	10517 Sep 17 17:20	28° \mathcal{O} 51'32	-4.8m		10520 Mar 26 04:14	0° \mathfrak{C}
	10517 Sep 20 16:25	0° \mathfrak{M}			10520 Apr 19 08:30	0° Π
morning max el	10517 Oct 26 23:07	27° \mathfrak{M} 20'54	45°53'31		10520 May 13 15:20	0° \mathfrak{G}
	10517 Oct 29 16:45	0° \mathfrak{A}		asc. node	10520 May 26 05:50	15° \mathfrak{G} 27'06
	10517 Nov 27 07:28	0° \mathfrak{M}			10520 Jun 07 05:02	0° \mathcal{O}
asc. node	10517 Dec 09 16:35	13° \mathfrak{M} 51'13			10520 Jul 02 08:26	0° \mathfrak{M}
	10517 Dec 23 18:08	0° \mathfrak{X}			10520 Jul 28 15:39	0° \mathfrak{A}
	10518 Jan 18 04:16	0° \mathfrak{Z}		evening max el	10520 Aug 18 02:53	21° \mathfrak{A} 30'45 46°17'38
	10518 Feb 12 00:25	0° \approx			10520 Aug 27 00:20	0° \mathfrak{M}
	10518 Mar 08 11:54	0° \mathfrak{H}		desc. node	10520 Sep 15 04:20	15° \mathfrak{M} 14'29
desc. node	10518 Mar 31 09:43	28° \mathfrak{H} 21'23		greatest brilliancy	10520 Sep 25 21:55	20° \mathfrak{M} 48'49 -4.8m
	10518 Apr 01 17:27	0° \mathfrak{Y}		retrograde	10520 Oct 06 19:54	22° \mathfrak{M} 58'51
morning set	10518 Apr 25 13:29	29° \mathfrak{Y} 44'17		evening set	10520 Oct 24 05:49	17° \mathfrak{M} 11'40
	10518 Apr 25 18:31	0° \mathfrak{C}		min. Earth dist.	10520 Oct 27 17:13	15° \mathfrak{M} 03'16 0.28893 AU
	10518 May 19 16:32	0° Π		inferior conj	10520 Oct 28 07:08	14° \mathfrak{M} 41'27 -8°08'58
				minimum elong	10520 Oct 28 00:19	14° \mathfrak{M} 52'08 8°07'55
superior conj	10518 Jun 05 00:09	20° Π 30'30	-1°24'52	morning rise	10520 Oct 31 19:03	12° \mathfrak{M} 31'55
minimum elong	10518 Jun 05 06:03	20° Π 49'04	1°25'18	direct	10520 Nov 18 17:21	6° \mathfrak{M} 31'02
max. Earth dist.	10518 Jun 05 04:57	20° Π 45'34	1.71303 AU	greatest brilliancy	10520 Nov 28 14:22	8° \mathfrak{M} 17'43 -4.7m
	10518 Jun 12 13:25	0° \mathfrak{G}			10520 Dec 30 11:55	0° \mathfrak{X}
	10518 Jul 06 11:14	0° \mathcal{O}		asc. node	10521 Jan 06 04:07	6° \mathfrak{X} 15'28
evening rise	10518 Jul 15 09:18	11° \mathcal{O} 09'39		morning max el	10521 Jan 06 15:43	6° \mathfrak{X} 43'28 45°44'37
asc. node	10518 Jul 22 03:52	19° \mathcal{O} 37'14			10521 Jan 29 03:34	0° \mathfrak{Z}
	10518 Jul 30 11:39	0° \mathfrak{M}			10521 Feb 24 16:54	0° \approx
	10518 Aug 23 15:55	0° \mathfrak{A}			10521 Mar 22 01:02	0° \mathfrak{H}
	10518 Sep 17 01:39	0° \mathfrak{M}			10521 Apr 15 17:55	0° \mathfrak{Y}
	10518 Oct 11 19:37	0° \mathfrak{X}		desc. node	10521 Apr 27 22:47	15° \mathfrak{Y} 00'29
	10518 Nov 06 02:24	0° \mathfrak{Z}			10521 May 10 01:34	0° \mathfrak{C}
desc. node	10518 Nov 10 23:29	5° \mathfrak{Z} 41'23			10521 Jun 03 03:37	0° Π
	10518 Dec 02 05:31	0° \approx			10521 Jun 27 03:01	0° \mathfrak{G}
	10518 Dec 29 22:20	0° \mathfrak{H}		morning set	10521 Jul 10 00:54	16° \mathfrak{G} 10'06
evening max el	10519 Jan 10 19:54	11° \mathfrak{H} 55'21	46°01'18		10521 Jul 21 02:13	0° \mathcal{O}
	10519 Jan 31 11:15	0° \mathfrak{Y}			10521 Aug 14 02:46	0° \mathfrak{M}
greatest brilliancy	10519 Feb 19 05:28	10° \mathfrak{Y} 51'10	-4.8m			
retrograde	10519 Mar 01 03:14	12° \mathfrak{Y} 40'12		superior conj	10521 Aug 18 06:30	5° \mathfrak{M} 10'42 -0°01'03
asc. node	10519 Mar 03 23:58	12° \mathfrak{Y} 30'15		minimum elong	10521 Aug 18 06:48	5° \mathfrak{M} 11'39 0°01'18
evening set	10519 Mar 15 22:00	8° \mathfrak{Y} 21'55		behind sun begin	10521 Aug 17 06:30	3° \mathfrak{M} 55'55
inferior conj	10519 Mar 21 22:43	4° \mathfrak{Y} 47'37	4°23'55	behind sun end	10521 Aug 19 07:07	6° \mathfrak{M} 27'22
minimum elong	10519 Mar 21 13:38	5° \mathfrak{Y} 01'38	4°21'21	asc. node	10521 Aug 18 16:47	5° \mathfrak{M} 42'43
min. Earth dist.	10519 Mar 22 00:08	4° \mathfrak{Y} 45'25	0.27464 AU	max. Earth dist.	10521 Aug 21 04:24	8° \mathfrak{M} 48'21 1.72154 AU
morning rise	10519 Mar 27 05:00	1° \mathfrak{Y} 38'15			10521 Sep 07 05:26	0° \mathfrak{A}
	10519 Mar 30 07:34	30° \mathfrak{R} \mathfrak{H}		evening rise	10521 Sep 25 07:59	22° \mathfrak{A} 26'33
direct	10519 Apr 11 20:33	26° \mathfrak{H} 49'21			10521 Oct 01 10:40	0° \mathfrak{M}
greatest brilliancy	10519 Apr 22 01:58	28° \mathfrak{H} 47'54	-4.9m		10521 Oct 25 19:23	0° \mathfrak{X}
	10519 Apr 24 23:56	0° \mathfrak{Y}			10521 Nov 19 09:04	0° \mathfrak{Z}
morning max el	10519 Jun 01 08:59	29° \mathfrak{Y} 40'00	46°58'02	desc. node	10521 Dec 08 10:45	23° \mathfrak{Z} 03'57
	10519 Jun 01 16:56	0° \mathfrak{C}			10521 Dec 14 05:13	0° \approx
desc. node	10519 Jun 23 21:38	23° \mathfrak{C} 43'21			10522 Jan 08 09:21	0° \mathfrak{H}
	10519 Jun 29 11:39	0° Π			10522 Feb 03 00:25	0° \mathfrak{Y}

	10522 Mar 01 12:11	0°♄		asc. node	10524 Sep 15 05:55	21°♎42'06	
evening max el	10522 Mar 24 09:40	24°♄10'36	46°40'03	morning set	10524 Sep 20 01:17	27°♎39'03	
	10522 Mar 30 08:51	0°♂			10524 Sep 21 22:51	0°♂	
asc. node	10522 Mar 31 10:21	1°♂00'25			10524 Oct 16 05:03	0°♎	
greatest brilliancy	10522 May 03 22:52	24°♂47'42	-4.9m				
retrograde	10522 May 13 13:44	26°♂32'15		superior conj	10524 Oct 27 12:17	13°♎58'09	1°19'59
evening set	10522 May 31 16:02	20°♂18'57		minimum elong	10524 Oct 27 05:32	13°♎37'18	1°20'11
inferior conj	10522 Jun 03 05:34	18°♂44'45	9°01'27	max. Earth dist.	10524 Oct 28 15:04	15°♎20'53	1.73089 AU
minimum elong	10522 Jun 03 10:24	18°♂37'17	9°00'37		10524 Nov 09 11:53	0°♄	
min. Earth dist.	10522 Jun 03 10:31	18°♂37'05	0.27157 AU	evening rise	10524 Dec 03 04:22	29°♄11'42	
morning rise	10522 Jun 06 04:47	16°♂55'59			10524 Dec 03 20:05	0°♄	
direct	10522 Jun 23 22:37	10°♂55'57			10524 Dec 28 06:21	0°♌	
greatest brilliancy	10522 Jul 03 17:19	12°♂43'55	-4.9m	desc. node	10525 Jan 04 22:43	9°♌24'35	
desc. node	10522 Jul 21 08:53	22°♂56'27			10525 Jan 21 18:45	0°♄	
	10522 Jul 30 00:22	0°♌			10525 Feb 15 08:59	0°♄	
morning max el	10522 Aug 13 03:04	13°♌14'08	46°39'07		10525 Mar 12 01:39	0°♄	
	10522 Aug 29 07:00	0°♌			10525 Apr 06 00:13	0°♂	
	10522 Sep 25 06:07	0°♎		asc. node	10525 Apr 27 20:46	25°♂44'01	
	10522 Oct 21 02:30	0°♂			10525 May 01 13:29	0°♌	
asc. node	10522 Nov 11 06:04	25°♂04'27			10525 May 28 15:20	0°♌	
	10522 Nov 15 08:53	0°♎		evening max el	10525 Jun 05 05:55	7°♌49'59	46°51'48
	10522 Dec 10 05:46	0°♄			10525 Jun 30 05:14	0°♎	
	10523 Jan 03 19:51	0°♄		greatest brilliancy	10525 Jul 15 01:10	8°♎26'33	-4.9m
	10523 Jan 28 05:13	0°♌		retrograde	10525 Jul 25 16:14	10°♎33'52	
morning set	10523 Feb 08 15:03	14°♌05'49		evening set	10525 Aug 09 10:59	6°♎15'45	
	10523 Feb 21 11:13	0°♄		inferior conj	10525 Aug 15 15:29	2°♎36'51	0°33'22
desc. node	10523 Mar 02 22:24	11°♄44'59		minimum elong	10525 Aug 15 16:46	2°♎34'53	0°32'40
max. Earth dist.	10523 Mar 16 04:42	28°♄15'08	1.72065 AU	min. Earth dist.	10525 Aug 15 06:38	2°♎50'26	0.27425 AU
	10523 Mar 17 14:21	0°♄		desc. node	10525 Aug 17 19:45	1°♎17'05	
					10525 Aug 19 23:57	30°♎♌	
superior conj	10523 Mar 19 14:08	2°♄28'54	-0°39'07	morning rise	10525 Aug 21 23:02	28°♌54'40	
minimum elong	10523 Mar 19 05:20	2°♄01'28	0°38'42	direct	10525 Sep 05 11:46	24°♌46'54	
	10523 Apr 10 14:53	0°♄		greatest brilliancy	10525 Sep 15 07:20	26°♌32'42	-4.8m
evening rise	10523 Apr 28 04:57	22°♄01'34			10525 Sep 22 23:51	0°♎	
	10523 May 04 13:37	0°♂		morning max el	10525 Oct 24 14:28	25°♎07'01	45°54'38
	10523 May 28 12:20	0°♌			10525 Oct 29 14:22	0°♂	
	10523 Jun 21 13:24	0°♌			10525 Nov 26 23:01	0°♎	
asc. node	10523 Jun 23 17:30	2°♌41'51		asc. node	10525 Dec 08 18:31	13°♎16'08	
	10523 Jul 15 19:27	0°♎			10525 Dec 23 07:24	0°♄	
	10523 Aug 09 09:46	0°♂			10526 Jan 17 16:26	0°♄	
	10523 Sep 03 13:56	0°♎			10526 Feb 11 12:00	0°♌	
	10523 Sep 29 19:54	0°♄			10526 Mar 07 23:12	0°♄	
desc. node	10523 Oct 13 14:40	14°♄54'36		desc. node	10526 Mar 30 11:31	27°♄52'17	
	10523 Oct 28 12:34	0°♄			10526 Apr 01 04:36	0°♄	
evening max el	10523 Oct 28 23:05	0°♄25'22	45°48'22	morning set	10526 Apr 23 00:33	27°♄14'09	
greatest brilliancy	10523 Dec 07 03:54	28°♄43'59	-4.7m		10526 Apr 25 05:34	0°♄	
	10523 Dec 12 01:10	0°♌			10526 May 19 03:32	0°♂	
retrograde	10523 Dec 16 19:19	0°♌25'43					
	10523 Dec 21 11:00	30°♎♄		superior conj	10526 Jun 02 11:35	18°♂01'00	-1°25'47
evening set	10524 Jan 02 12:06	25°♄08'26		minimum elong	10526 Jun 02 16:31	18°♂16'31	1°26'14
inferior conj	10524 Jan 07 04:30	22°♄16'47	-6°05'25	max. Earth dist.	10526 Jun 02 14:17	18°♂09'30	1.71296 AU
minimum elong	10524 Jan 07 14:37	22°♄00'55	6°02'43		10526 Jun 12 00:23	0°♌	
min. Earth dist.	10524 Jan 07 21:05	21°♄50'47	0.28666 AU		10526 Jul 05 22:12	0°♌	
morning rise	10524 Jan 12 16:41	18°♄55'30		evening rise	10526 Jul 12 21:37	8°♌43'51	
direct	10524 Jan 28 13:08	14°♄01'48		asc. node	10526 Jul 21 05:53	19°♌09'17	
asc. node	10524 Feb 03 15:16	14°♄44'07			10526 Jul 29 22:40	0°♎	
greatest brilliancy	10524 Feb 08 15:33	16°♄16'55	-4.8m		10526 Aug 23 03:04	0°♂	
	10524 Mar 01 04:56	0°♌			10526 Sep 16 13:03	0°♎	
morning max el	10524 Mar 18 08:15	15°♌43'41	46°21'25		10526 Oct 11 07:34	0°♄	
	10524 Apr 01 02:46	0°♄			10526 Nov 05 15:20	0°♄	
	10524 Apr 27 20:42	0°♄		desc. node	10526 Nov 10 01:19	5°♄08'29	
	10524 May 23 05:05	0°♄			10526 Dec 01 20:23	0°♌	
desc. node	10524 May 25 11:30	2°♄43'51			10526 Dec 29 17:51	0°♄	
	10524 Jun 16 21:33	0°♂		evening max el	10527 Jan 08 11:19	9°♄41'00	46°00'11
	10524 Jul 11 06:12	0°♌			10527 Feb 01 05:11	0°♄	
	10524 Aug 04 11:52	0°♌		greatest brilliancy	10527 Feb 16 18:52	8°♄30'25	-4.8m
	10524 Aug 28 17:07	0°♎		retrograde	10527 Feb 26 17:02	10°♄19'10	

asc. node	10527 Mar 03 01:55	9° Υ 56'01		minimum elong	10529 Aug 15 21:38	2° \mathbb{M} 54'31	0°04'56
evening set	10527 Mar 13 10:08	6° Υ 03'22		behind sun begin	10529 Aug 14 22:09	1° \mathbb{M} 41'21	
inferior conj	10527 Mar 19 12:31	2° Υ 26'18	4°03'10	behind sun end	10529 Aug 16 21:07	4° \mathbb{M} 07'40	
minimum elong	10527 Mar 19 04:00	2° Υ 39'28	4°00'45	asc. node	10529 Aug 17 18:39	5° \mathbb{M} 14'45	
min. Earth dist.	10527 Mar 19 14:17	2° Υ 23'34	0.27486 AU	max. Earth dist.	10529 Aug 18 18:46	6° \mathbb{M} 29'52	1.72108 AU
	10527 Mar 23 12:46	30° \mathbb{R} \mathbb{H}			10529 Sep 06 16:13	0° \mathbb{L}	
morning rise	10527 Mar 24 21:38	29° \mathbb{H} 12'48		evening rise	10529 Sep 23 00:14	20° \mathbb{L} 14'54	
direct	10527 Apr 09 11:16	24° \mathbb{H} 27'49			10529 Sep 30 21:28	0° \mathbb{M}	
greatest brilliancy	10527 Apr 19 16:28	26° \mathbb{H} 26'15	-4.9m		10529 Oct 25 06:19	0° \mathbb{X}	
	10527 Apr 27 04:25	0° Υ			10529 Nov 18 20:15	0° \mathbb{Z}	
morning max el	10527 May 29 23:17	27° Υ 18'25	46°57'34	desc. node	10529 Dec 07 12:46	22° \mathbb{Z} 35'16	
	10527 Jun 01 14:57	0° \mathbb{B}			10529 Dec 13 16:56	0° \approx	
desc. node	10527 Jun 22 23:37	23° \mathbb{B} 01'34			10530 Jan 07 21:56	0° \mathbb{H}	
	10527 Jun 29 03:44	0° \mathbb{I}			10530 Feb 02 14:33	0° Υ	
	10527 Jul 24 21:41	0° \mathbb{G}			10530 Mar 01 05:24	0° \mathbb{B}	
	10527 Aug 18 23:11	0° \mathbb{Q}		evening max el	10530 Mar 21 21:49	21° \mathbb{B} 43'59	46°38'47
	10527 Sep 12 17:44	0° \mathbb{M}			10530 Mar 30 11:19	0° \mathbb{I}	
	10527 Oct 07 08:45	0° \mathbb{L}		asc. node	10530 Mar 30 12:17	0° \mathbb{I} 02'13	
asc. node	10527 Oct 13 19:02	7° \mathbb{L} 51'19		greatest brilliancy	10530 May 01 12:24	22° \mathbb{I} 22'49	-4.9m
	10527 Oct 31 21:01	0° \mathbb{M}		retrograde	10530 May 11 02:05	24° \mathbb{I} 06'45	
	10527 Nov 25 06:54	0° \mathbb{X}		evening set	10530 May 29 06:30	17° \mathbb{I} 51'02	
morning set	10527 Nov 29 07:15	4° \mathbb{X} 56'34		inferior conj	10530 May 31 18:27	16° \mathbb{I} 19'18	9°06'02
	10527 Dec 19 15:05	0° \mathbb{Z}		minimum elong	10530 May 31 22:22	16° \mathbb{I} 13'16	9°05'19
max. Earth dist.	10528 Jan 04 04:20	19° \mathbb{Z} 11'31	1.73098 AU	min. Earth dist.	10530 May 31 23:26	16° \mathbb{I} 11'37	0.27166 AU
				morning rise	10530 Jun 03 14:12	14° \mathbb{I} 35'41	
superior conj	10528 Jan 04 23:30	20° \mathbb{Z} 10'39	1°01'51	direct	10530 Jun 21 10:50	8° \mathbb{I} 30'02	
minimum elong	10528 Jan 05 09:16	20° \mathbb{Z} 40'49	1°02'01	greatest brilliancy	10530 Jul 01 06:40	10° \mathbb{I} 18'39	-4.9m
	10528 Jan 12 22:25	0° \approx		desc. node	10530 Jul 20 10:57	21° \mathbb{I} 42'25	
desc. node	10528 Feb 02 11:19	25° \approx 22'27			10530 Jul 30 06:42	0° \mathbb{G}	
	10528 Feb 06 05:07	0° \mathbb{H}		morning max el	10530 Aug 10 15:51	10° \mathbb{G} 49'13	46°40'38
evening rise	10528 Feb 11 23:02	7° \mathbb{H} 06'26			10530 Aug 29 01:07	0° \mathbb{Q}	
	10528 Mar 01 10:52	0° Υ			10530 Sep 24 20:37	0° \mathbb{M}	
	10528 Mar 25 15:31	0° \mathbb{B}			10530 Oct 20 15:16	0° \mathbb{L}	
	10528 Apr 18 20:08	0° \mathbb{I}		asc. node	10530 Nov 10 08:02	24° \mathbb{L} 34'37	
	10528 May 13 03:27	0° \mathbb{G}			10530 Nov 14 20:41	0° \mathbb{M}	
asc. node	10528 May 25 07:48	14° \mathbb{G} 55'10			10530 Dec 09 16:59	0° \mathbb{X}	
	10528 Jun 06 17:53	0° \mathbb{Q}			10531 Jan 03 06:44	0° \mathbb{Z}	
	10528 Jul 01 22:35	0° \mathbb{M}			10531 Jan 27 15:57	0° \approx	
	10528 Jul 28 08:39	0° \mathbb{L}		morning set	10531 Feb 06 06:39	11° \approx 52'26	
evening max el	10528 Aug 15 18:27	19° \mathbb{L} 16'07	46°19'04		10531 Feb 20 21:55	0° \mathbb{H}	
	10528 Aug 27 03:12	0° \mathbb{M}		desc. node	10531 Mar 02 00:13	11° \mathbb{H} 17'17	
desc. node	10528 Sep 14 06:14	13° \mathbb{M} 55'43		max. Earth dist.	10531 Mar 13 19:54	25° \mathbb{H} 59'31	1.72113 AU
greatest brilliancy	10528 Sep 23 13:54	18° \mathbb{M} 37'28	-4.8m				
retrograde	10528 Oct 04 11:48	20° \mathbb{M} 47'28		superior conj	10531 Mar 17 03:20	0° Υ 06'54	-0°35'45
evening set	10528 Oct 21 18:46	15° \mathbb{M} 05'33		minimum elong	10531 Mar 16 19:10	29° \mathbb{H} 41'28	0°35'19
inferior conj	10528 Oct 25 23:09	12° \mathbb{M} 30'35	-8°01'39		10531 Mar 17 01:07	0° Υ	
minimum elong	10528 Oct 25 15:46	12° \mathbb{M} 42'11	8°00'29		10531 Apr 10 01:44	0° \mathbb{B}	
min. Earth dist.	10528 Oct 25 08:22	12° \mathbb{M} 53'48	0.28854 AU	evening rise	10531 Apr 25 16:51	19° \mathbb{B} 34'19	
morning rise	10528 Oct 29 13:00	10° \mathbb{M} 18'00			10531 May 04 00:34	0° \mathbb{I}	
direct	10528 Nov 16 09:13	4° \mathbb{M} 21'04			10531 May 27 23:24	0° \mathbb{G}	
greatest brilliancy	10528 Nov 26 04:51	6° \mathbb{M} 06'15	-4.7m		10531 Jun 21 00:40	0° \mathbb{Q}	
	10528 Dec 30 12:47	0° \mathbb{X}		asc. node	10531 Jun 22 19:31	2° \mathbb{Q} 13'04	
morning max el	10529 Jan 04 05:59	4° \mathbb{X} 28'30	45°43'54		10531 Jul 15 07:04	0° \mathbb{M}	
asc. node	10529 Jan 05 06:13	5° \mathbb{X} 27'19			10531 Aug 08 21:58	0° \mathbb{L}	
	10529 Jan 28 19:51	0° \mathbb{Z}			10531 Sep 03 03:12	0° \mathbb{M}	
	10529 Feb 24 06:33	0° \approx			10531 Sep 29 11:27	0° \mathbb{X}	
	10529 Mar 21 13:29	0° \mathbb{H}		desc. node	10531 Oct 12 16:37	14° \mathbb{X} 13'01	
	10529 Apr 15 05:42	0° Υ		evening max el	10531 Oct 26 13:45	28° \mathbb{X} 12'07	45°48'59
desc. node	10529 Apr 27 00:41	14° Υ 30'28			10531 Oct 28 10:55	0° \mathbb{Z}	
	10529 May 09 13:00	0° \mathbb{B}		greatest brilliancy	10531 Dec 04 18:28	26° \mathbb{Z} 32'37	-4.7m
	10529 Jun 02 14:50	0° \mathbb{I}		retrograde	10531 Dec 14 11:17	28° \mathbb{Z} 15'34	
	10529 Jun 26 14:06	0° \mathbb{G}		evening set	10531 Dec 31 06:43	22° \mathbb{Z} 53'22	
morning set	10529 Jul 07 13:26	13° \mathbb{G} 44'40		inferior conj	10532 Jan 04 20:24	20° \mathbb{Z} 05'46	-6°19'39
	10529 Jul 20 13:10	0° \mathbb{Q}		minimum elong	10532 Jan 05 06:32	19° \mathbb{Z} 49'53	6°17'02
	10529 Aug 13 13:37	0° \mathbb{M}		min. Earth dist.	10532 Jan 05 12:30	19° \mathbb{Z} 40'33	0.28709 AU
				morning rise	10532 Jan 10 05:59	16° \mathbb{Z} 48'29	
superior conj	10529 Aug 15 20:26	2° \mathbb{M} 50'46	-0°04'43	direct	10532 Jan 26 05:13	11° \mathbb{Z} 50'18	

asc. node	10532 Feb 02 17:10	12°  53'56		10534 Jul 29 09:26	0° 		
greatest brilliancy	10532 Feb 06 07:39	14°  05'37	-4.8m	10534 Aug 22 13:57	0° 		
	10532 Mar 01 11:52	0° 		10534 Sep 16 00:13	0° 		
morning max el	10532 Mar 16 00:23	13°  30'55	46°19'44	10534 Oct 10 19:16	0° 		
	10532 Mar 31 20:23	0° 		10534 Nov 05 04:03	0° 		
	10532 Apr 27 10:58	0° 		10534 Nov 09 03:24	4°  36'59		
	10532 May 22 17:54	0° 		10534 Dec 01 11:07	0° 		
desc. node	10532 May 24 13:29	2°  11'26		10534 Dec 29 13:31	0° 		
	10532 Jun 16 09:34	0° 		10535 Jan 06 02:34	7°  27'24	45°59'09	
	10532 Jul 10 17:42	0° 		10535 Feb 02 04:29	0° 		
	10532 Aug 03 23:00	0° 		10535 Feb 14 09:07	6°  12'25	-4.8m	
	10532 Aug 28 04:00	0° 		10535 Feb 24 06:35	8°  00'12		
asc. node	10532 Sep 14 07:41	21°  14'22		10535 Mar 02 03:51	7°  18'21		
morning set	10532 Sep 17 16:41	25°  17'25'02		10535 Mar 10 22:44	3°  46'41		
	10532 Sep 21 09:32	0° 		10535 Mar 17 02:34	0°  07'19	3°42'12	
	10532 Oct 15 15:37	0° 		10535 Mar 16 18:39	0°  19'34	3°39'56	
				10535 Mar 17 04:59	0°  03'33	0.27506 AU	
superior conj	10532 Oct 25 05:15	11°  14'49'41	1°18'41	10535 Mar 17 07:16	30°  18'41		
minimum elong	10532 Oct 24 21:58	11°  14'27'12	1°18'52	10535 Mar 22 14:18	26°  18'49'45		
max. Earth dist.	10532 Oct 26 09:44	13°  14'17'41	1.73070 AU	10535 Apr 07 01:41	22°  18'08'39		
	10532 Nov 08 22:25	0° 		10535 Apr 17 07:29	24°  18'07'14	-4.9m	
evening rise	10532 Nov 30 21:20	27°  14'03'43		10535 Apr 28 13:47	0° 		
	10532 Dec 03 06:39	0° 		10535 May 27 12:38	24°  14'56'05	46°56'54	
	10532 Dec 27 17:05	0° 		10535 Jun 01 11:33	0° 		
desc. node	10533 Jan 04 00:41	8°  14'57'35		10535 Jun 22 01:38	22°  14'21'46		
	10533 Jan 21 05:47	0° 		10535 Jun 28 19:06	0° 		
	10533 Feb 14 20:27	0° 		10535 Jul 24 11:00	0° 		
	10533 Mar 11 13:47	0° 		10535 Aug 18 11:24	0° 		
	10533 Apr 05 13:26	0° 		10535 Sep 12 05:15	0° 		
asc. node	10533 Apr 26 22:44	25°  14'06'47		10535 Oct 06 19:46	0° 		
	10533 May 01 04:44	0° 		10535 Oct 12 21:01	7°  14'23'56		
	10533 May 28 11:29	0° 		10535 Oct 31 07:43	0° 		
evening max el	10533 Jun 02 20:43	5°  14'30'31	46°52'16	10535 Nov 24 17:23	0° 		
	10533 Jul 01 04:28	0° 		10535 Nov 27 00:15	2°  14'48'52		
greatest brilliancy	10533 Jul 12 15:38	6°  14'05'39	-4.9m	10535 Dec 19 01:31	0° 		
retrograde	10533 Jul 23 06:57	8°  14'12'51		10536 Jan 01 21:05	17°  14'02'55	1.73115 AU	
evening set	10533 Aug 07 01:56	3°  14'10'53'24					
inferior conj	10533 Aug 13 05:03	0°  14'16'21	0°56'35	superior conj	10536 Jan 02 16:00	18°  14'01'18	1°04'08
minimum elong	10533 Aug 13 07:14	0°  14'13'00	0°55'35	minimum elong	10536 Jan 03 01:42	18°  14'03'12	1°04'20
min. Earth dist.	10533 Aug 12 20:49	0°  14'10'28'59	0.27389 AU		10536 Jan 12 08:52	0° 	
	10533 Aug 13 15:43	30°  14'15'43		desc. node	10536 Feb 01 13:08	24°  14'55'33	
desc. node	10533 Aug 16 21:37	28°  14'02'49			10536 Feb 05 15:41	0° 	
morning rise	10533 Aug 19 13:05	26°  14'03'35'59		evening rise	10536 Feb 09 14:07	4°  14'51'53	
direct	10533 Sep 03 01:33	22°  14'02'26'55			10536 Feb 29 21:35	0° 	
greatest brilliancy	10533 Sep 12 20:24	24°  14'01'12'43	-4.8m		10536 Mar 25 02:27	0° 	
	10533 Sep 24 11:42	0° 			10536 Apr 18 07:22	0° 	
morning max el	10533 Oct 22 05:35	22°  14'10'53'10	45°55'50		10536 May 12 15:09	0° 	
	10533 Oct 29 10:56	0° 		asc. node	10536 May 24 09:51	14°  14'02'24'50	
	10533 Nov 26 14:00	0° 			10536 Jun 06 06:20	0° 	
asc. node	10533 Dec 07 20:31	12°  14'14'22'21			10536 Jul 01 12:26	0° 	
	10533 Dec 22 20:13	0° 			10536 Jul 28 01:39	0° 	
	10534 Jan 17 04:10	0° 		evening max el	10536 Aug 13 09:03	16°  14'59'40	46°20'16
	10534 Feb 10 23:11	0° 			10536 Aug 27 07:33	0° 	
	10534 Mar 07 10:05	0° 		desc. node	10536 Sep 13 08:14	12°  14'13'43	
desc. node	10534 Mar 29 13:25	27°  14'18'24'52		greatest brilliancy	10536 Sep 21 05:58	16°  14'26'03	-4.8m
	10534 Mar 31 15:19	0° 		retrograde	10536 Oct 02 03:13	18°  14'13'35'49	
morning set	10534 Apr 20 12:03	24°  14'10'46'44		evening set	10536 Oct 19 07:16	12°  14'13'59'15	
	10534 Apr 24 16:13	0° 		min. Earth dist.	10536 Oct 22 23:37	10°  14'43'29	0.28816 AU
	10534 May 18 14:10	0° 		inferior conj	10536 Oct 23 14:53	10°  14'19'31	-7°53'29
				minimum elong	10536 Oct 23 06:57	10°  14'31'59	7°52'11
superior conj	10534 May 30 23:01	15°  14'11'32'34	-1°26'30	morning rise	10536 Oct 27 06:53	8°  14'10'37	
minimum elong	10534 May 31 02:56	15°  14'11'44'55	1°26'59	direct	10536 Nov 14 00:14	2°  14'10'42	
max. Earth dist.	10534 May 30 23:18	15°  14'11'33'30	1.71298 AU	greatest brilliancy	10536 Nov 23 19:44	3°  14'11'55'14	-4.7m
	10534 Jun 11 11:03	0° 			10536 Dec 30 12:13	0° 	
	10534 Jul 05 08:55	0° 		morning max el	10537 Jan 01 19:39	2°  14'12'40	45°43'24
evening rise	10534 Jul 10 09:27	6°  14'01'17'13		asc. node	10537 Jan 04 08:09	4°  14'12'40'08	
asc. node	10534 Jul 20 07:44	18°  14'01'41'34			10537 Jan 28 11:33	0° 	




































































































































	10537 Feb 23 19:45	0°♊			10539 Sep 29 03:06	0°♊	
	10537 Mar 21 01:32	0°♋		desc. node	10539 Oct 11 18:39	13°♊31'28	
	10537 Apr 14 17:09	0°♌		evening max el	10539 Oct 24 05:13	26°♊01'01	45°49'24
desc. node	10537 Apr 26 02:38	14°♌01'45			10539 Oct 28 10:10	0°♋	
	10537 May 09 00:05	0°♌		greatest brilliancy	10539 Dec 02 08:36	24°♋20'35	-4.7m
	10537 Jun 02 01:41	0°♍		retrograde	10539 Dec 12 03:14	26°♋04'47	
	10537 Jun 26 00:47	0°♎		evening set	10539 Dec 29 01:10	20°♋37'48	
morning set	10537 Jul 05 02:14	11°♎21'14		inferior conj	10540 Jan 02 12:07	17°♋54'06	-6°33'20
	10537 Jul 19 23:43	0°♏		minimum elong	10540 Jan 02 22:13	17°♋38'18	6°30'49
				min. Earth dist.	10540 Jan 03 03:29	17°♋30'03	0.28753 AU
superior conj	10537 Aug 13 10:29	0°♐32'22	-0°08'20	morning rise	10540 Jan 07 18:57	14°♋41'00	
minimum elong	10537 Aug 13 12:34	0°♐38'51	0°08'32	direct	10540 Jan 23 21:38	9°♋38'16	
behind sun begin	10537 Aug 12 15:32	29°♏33'15		asc. node	10540 Feb 01 19:06	11°♋07'05	
behind sun end	10537 Aug 14 09:37	1°♐44'27		greatest brilliancy	10540 Feb 03 23:04	11°♋53'03	-4.8m
	10537 Aug 13 00:07	0°♐			10540 Mar 01 16:49	0°♌	
max. Earth dist.	10537 Aug 16 07:35	4°♐07'37	1.72070 AU	morning max el	10540 Mar 13 16:50	11°♌18'47	46°18'06
asc. node	10537 Aug 16 20:29	4°♐47'48			10540 Mar 31 13:42	0°♍	
	10537 Sep 06 02:43	0°♑			10540 Apr 27 01:07	0°♎	
evening rise	10537 Sep 20 16:21	18°♑03'40			10540 May 22 06:38	0°♏	
	10537 Sep 30 08:02	0°♒		desc. node	10540 May 23 15:26	1°♏39'01	
	10537 Oct 24 17:02	0°♓			10540 Jun 15 21:31	0°♍	
	10537 Nov 18 07:17	0°♋			10540 Jul 10 05:11	0°♎	
desc. node	10537 Dec 06 14:42	22°♋06'47			10540 Aug 03 10:08	0°♏	
	10537 Dec 13 04:30	0°♌			10540 Aug 27 14:52	0°♐	
	10538 Jan 07 10:25	0°♍		asc. node	10540 Sep 13 09:42	20°♐47'27	
	10538 Feb 02 04:37	0°♎		morning set	10540 Sep 15 08:22	23°♐11'54	
	10538 Feb 28 22:46	0°♏			10540 Sep 20 20:12	0°♑	
evening max el	10538 Mar 19 10:07	19°♏18'38	46°37'37		10540 Oct 15 02:10	0°♒	
asc. node	10538 Mar 29 14:21	29°♏03'40					
	10538 Mar 30 15:07	0°♍		superior conj	10540 Oct 22 22:23	9°♒41'46	1°17'17
greatest brilliancy	10538 Apr 29 01:34	19°♍58'17	-4.9m	minimum elong	10540 Oct 22 14:38	9°♒17'48	1°17'25
retrograde	10538 May 08 14:56	21°♍42'18		max. Earth dist.	10540 Oct 24 06:42	11°♒21'38	1.73052 AU
evening set	10538 May 26 20:29	15°♍24'40			10540 Nov 08 08:56	0°♓	
inferior conj	10538 May 29 07:22	13°♍54'43	9°09'36	evening rise	10540 Nov 28 14:26	24°♓55'57	
minimum elong	10538 May 29 10:18	13°♍50'11	9°09'00		10540 Dec 02 17:18	0°♋	
min. Earth dist.	10538 May 29 12:09	13°♍47'20	0.27173 AU		10540 Dec 27 03:57	0°♌	
morning rise	10538 Jun 01 00:06	12°♍15'45		desc. node	10541 Jan 03 02:31	8°♌29'42	
direct	10538 Jun 18 23:16	6°♍04'56			10541 Jan 20 17:00	0°♍	
greatest brilliancy	10538 Jun 28 19:47	7°♍54'14	-4.9m		10541 Feb 14 08:09	0°♎	
desc. node	10538 Jul 19 12:46	20°♍31'05			10541 Mar 11 02:11	0°♏	
	10538 Jul 30 10:35	0°♎			10541 Apr 05 02:57	0°♍	
morning max el	10538 Aug 08 05:33	8°♎27'38	46°42'13	asc. node	10541 Apr 26 00:46	24°♍28'52	
	10538 Aug 28 18:25	0°♏			10541 Apr 30 20:23	0°♎	
	10538 Sep 24 10:37	0°♐			10541 May 28 08:29	0°♏	
	10538 Oct 20 03:44	0°♑		evening max el	10541 May 31 11:53	3°♏11'29	46°52'42
asc. node	10538 Nov 09 09:59	24°♑05'23			10541 Jul 02 13:13	0°♐	
	10538 Nov 14 08:16	0°♒		greatest brilliancy	10541 Jul 10 06:35	3°♐44'52	-4.9m
	10538 Dec 09 04:04	0°♓		retrograde	10541 Jul 20 21:30	5°♐51'10	
	10539 Jan 02 17:31	0°♋		evening set	10541 Aug 04 17:09	1°♐30'27	
	10539 Jan 27 02:34	0°♌			10541 Aug 07 08:31	30°♒♏	
morning set	10539 Feb 03 22:06	9°♌39'01		inferior conj	10541 Aug 10 18:38	27°♒55'19	1°19'48
	10539 Feb 20 08:31	0°♍		minimum elong	10541 Aug 10 21:42	27°♒50'38	1°18'31
desc. node	10539 Mar 01 02:06	10°♍50'12		min. Earth dist.	10541 Aug 10 11:06	28°♒06'53	0.27350 AU
max. Earth dist.	10539 Mar 11 12:34	23°♍48'51	1.72157 AU	desc. node	10541 Aug 15 23:41	24°♒49'51	
				morning rise	10541 Aug 17 02:54	24°♒12'53	
superior conj	10539 Mar 14 16:22	27°♍44'52	-0°32'18	direct	10541 Aug 31 15:23	20°♒06'35	
minimum elong	10539 Mar 14 08:55	27°♍21'37	0°31'53	greatest brilliancy	10541 Sep 10 09:18	21°♒51'53	-4.8m
	10539 Mar 16 11:46	0°♎			10541 Sep 25 13:14	0°♐	
	10539 Apr 09 12:28	0°♏		morning max el	10541 Oct 19 20:10	20°♐37'41	45°57'06
evening rise	10539 Apr 23 04:50	17°♏07'45			10541 Oct 29 06:54	0°♑	
	10539 May 03 11:24	0°♍			10541 Nov 26 04:52	0°♒	
	10539 May 27 10:22	0°♎		asc. node	10541 Dec 06 22:25	12°♒08'14	
	10539 Jun 20 11:50	0°♏			10541 Dec 22 09:03	0°♓	
asc. node	10539 Jun 21 21:22	1°♏44'05			10542 Jan 16 16:03	0°♋	
	10539 Jul 14 18:34	0°♐			10542 Feb 10 10:36	0°♌	
	10539 Aug 08 10:02	0°♑			10542 Mar 06 21:15	0°♍	
	10539 Sep 02 16:22	0°♒		desc. node	10542 Mar 28 15:26	26°♍56'51	

	10542 Mar 31 02:21	0°♄	retrograde	10544 Sep 29 18:52	16°♌23'25	
morning set	10542 Apr 17 23:17	22°♄17'31	evening set	10544 Oct 16 19:49	10°♌51'53	
	10542 Apr 24 03:11	0°♄	min. Earth dist.	10544 Oct 20 15:02	8°♌32'11	0.28775 AU
	10542 May 18 01:05	0°♄	inferior conj	10544 Oct 21 06:44	8°♌07'34	-7°44'43
			minimum elong	10544 Oct 20 22:18	8°♌20'48	7°43'15
superior conj	10542 May 28 10:14	13°♄02'40 -1°27'05	morning rise	10544 Oct 25 00:59	5°♌48'18	
minimum elong	10542 May 28 13:07	13°♄11'45 1°27'34		10544 Nov 10 20:02	30°♌	
max. Earth dist.	10542 May 28 06:23	12°♄50'34 1.71296 AU	direct	10544 Nov 11 15:01	29°♌59'16	
	10542 Jun 10 21:59	0°♄		10544 Nov 12 10:05	0°♌	
	10542 Jul 04 19:53	0°♄	greatest brilliancy	10544 Nov 21 11:04	1°♌43'49	-4.7m
evening rise	10542 Jul 07 21:03	3°♄49'02		10544 Dec 30 11:00	0°♌	
asc. node	10542 Jul 19 09:37	18°♄13'09	morning max el	10544 Dec 30 10:08	29°♌57'55	45°43'07
	10542 Jul 28 20:28	0°♄	asc. node	10545 Jan 03 10:03	3°♌52'43	
	10542 Aug 22 01:08	0°♄		10545 Jan 28 03:18	0°♌	
	10542 Sep 15 11:41	0°♌		10545 Feb 23 09:09	0°♌	
	10542 Oct 10 07:16	0°♌		10545 Mar 20 13:51	0°♌	
	10542 Nov 04 17:05	0°♌		10545 Apr 14 04:55	0°♄	
desc. node	10542 Nov 08 05:21	4°♌04'19	desc. node	10545 Apr 25 04:32	13°♄31'43	
	10542 Dec 01 02:16	0°♌		10545 May 08 11:34	0°♄	
	10542 Dec 29 10:07	0°♌		10545 Jun 01 13:00	0°♄	
evening max el	10543 Jan 03 16:52	5°♌10'51 45°57'56		10545 Jun 25 11:57	0°♄	
	10543 Feb 03 13:52	0°♄	morning set	10545 Jul 02 14:28	8°♌54'18	
greatest brilliancy	10543 Feb 11 23:36	3°♄53'36 -4.8m		10545 Jul 19 10:46	0°♄	
retrograde	10543 Feb 21 19:37	5°♄40'08				
asc. node	10543 Mar 01 05:56	4°♄33'41	superior conj	10545 Aug 11 00:01	28°♄10'43 -0°12'00	
evening set	10543 Mar 08 11:26	1°♄28'16	minimum elong	10545 Aug 11 02:59	28°♄20'00 0°12'10	
	10543 Mar 11 01:37	30°♌	behind sun begin	10545 Aug 10 10:39	27°♄29'02	
inferior conj	10543 Mar 14 16:34	27°♌47'07 3°20'50	behind sun end	10545 Aug 11 19:20	29°♄10'58	
minimum elong	10543 Mar 14 09:19	27°♌58'23 3°18'44		10545 Aug 12 11:04	0°♌	
min. Earth dist.	10543 Mar 14 20:03	27°♌41'43 0.27534 AU	max. Earth dist.	10545 Aug 13 18:18	1°♌37'21 1.72027 AU	
morning rise	10543 Mar 20 06:48	24°♌25'35	asc. node	10545 Aug 15 22:28	4°♌19'54	
direct	10543 Apr 04 15:37	19°♌47'52		10545 Sep 05 13:38	0°♄	
greatest brilliancy	10543 Apr 14 23:16	21°♌47'31 -4.9m	evening rise	10545 Sep 18 08:12	15°♄50'21	
	10543 Apr 29 14:24	0°♄		10545 Sep 29 19:00	0°♌	
morning max el	10543 May 25 01:35	22°♄31'03 46°56'19		10545 Oct 24 04:10	0°♌	
	10543 Jun 01 08:04	0°♄		10545 Nov 17 18:43	0°♌	
desc. node	10543 Jun 21 03:31	21°♌40'31	desc. node	10545 Dec 05 16:34	21°♌36'58	
	10543 Jun 28 10:43	0°♄		10545 Dec 12 16:28	0°♌	
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asc. node	10543 Oct 11 22:56	6°♄55'20	asc. node	10546 Mar 28 16:18	28°♌02'42	
	10543 Oct 30 18:44	0°♌		10546 Mar 30 21:10	0°♄	
	10543 Nov 24 04:13	0°♌	greatest brilliancy	10546 Apr 26 13:53	17°♄32'03 -4.9m	
morning set	10543 Nov 24 17:34	0°♌41'06	retrograde	10546 May 06 04:07	19°♄16'55	
	10543 Dec 18 12:16	0°♌	evening set	10546 May 24 09:52	12°♄58'01	
max. Earth dist.	10543 Dec 30 14:34	14°♌55'38 1.73131 AU	inferior conj	10546 May 26 20:15	11°♄28'55 9°12'07	
			minimum elong	10546 May 26 22:13	11°♄25'54 9°11'35	
superior conj	10543 Dec 31 09:01	15°♌52'33 1°06'18	min. Earth dist.	10546 May 27 00:29	11°♄22'25 0.27187 AU	
minimum elong	10543 Dec 31 18:35	16°♌22'06 1°06'31	morning rise	10546 May 29 10:33	9°♄53'47	
	10544 Jan 11 19:38	0°♌	direct	10546 Jun 16 12:25	3°♄38'38	
desc. node	10544 Jan 31 15:06	24°♌28'06	greatest brilliancy	10546 Jun 26 08:32	5°♄28'08 -4.9m	
	10544 Feb 05 02:33	0°♌	desc. node	10546 Jul 18 14:51	19°♄20'48	
evening rise	10544 Feb 07 05:40	2°♌37'52		10546 Jul 30 13:28	0°♄	
	10544 Feb 29 08:40	0°♄	morning max el	10546 Aug 05 20:13	6°♄06'55 46°43'37	
	10544 Mar 24 13:49	0°♄		10546 Aug 28 11:54	0°♄	
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asc. node	10544 May 23 11:41	13°♄52'06	asc. node	10546 Nov 08 11:50	23°♄34'54	
	10544 Jun 05 19:23	0°♄		10546 Nov 13 20:09	0°♌	
	10544 Jul 01 02:57	0°♌		10546 Dec 08 15:25	0°♌	
	10544 Jul 27 19:33	0°♄		10547 Jan 02 04:33	0°♌	
evening max el	10544 Aug 10 23:10	14°♄40'40 46°21'44		10547 Jan 26 13:28	0°♌	
	10544 Aug 27 14:34	0°♌	morning set	10547 Feb 01 14:02	7°♌26'19	
desc. node	10544 Sep 12 10:18	11°♌10'06		10547 Feb 19 19:22	0°♌	
greatest brilliancy	10544 Sep 18 21:48	14°♌13'10 -4.8m	desc. node	10547 Feb 28 04:07	10°♌22'50	

max. Earth dist.	10547 Mar 09 05:01	21° H 36'53	1.72195 AU	morning rise	10549 Aug 14 16:35	21° Ω 52'33	
				desc. node	10549 Aug 15 01:42	21° Ω 40'34	
superior conj	10547 Mar 12 05:59	25° H 23'58	-0°28'51	direct	10549 Aug 29 05:07	17° Ω 46'57	
minimum elong	10547 Mar 11 23:16	25° H 03'02	0°28'26	greatest brilliancy	10549 Sep 07 22:51	19° Ω 31'59	-4.8m
	10547 Mar 15 22:38	0° Y			10549 Sep 26 07:51	0° M	
	10547 Apr 08 23:23	0° B		morning max el	10549 Oct 17 10:03	18° M 20'17	45°58'13
evening rise	10547 Apr 20 17:23	14° B 42'27			10549 Oct 29 02:17	0° Ω	
	10547 May 02 22:26	0° II			10549 Nov 25 19:35	0° M	
	10547 May 26 21:34	0° E		asc. node	10549 Dec 06 00:21	11° M 34'19	
	10547 Jun 19 23:17	0° Ω			10549 Dec 21 21:50	0° X	
asc. node	10547 Jun 20 23:18	1° Ω 14'32			10550 Jan 16 03:52	0° B	
	10547 Jul 14 06:24	0° M			10550 Feb 09 21:53	0° \approx	
	10547 Aug 07 22:31	0° Ω			10550 Mar 06 08:16	0° H	
	10547 Sep 02 06:02	0° M		desc. node	10550 Mar 27 17:13	26° H 28'32	
	10547 Sep 28 19:23	0° X			10550 Mar 30 13:14	0° Y	
desc. node	10547 Oct 10 20:38	12° X 48'11		morning set	10550 Apr 15 10:39	19° Y 49'12	
evening max el	10547 Oct 21 21:23	23° X 50'41	45°50'02		10550 Apr 23 13:59	0° B	
	10547 Oct 28 10:57	0° B			10550 May 17 11:52	0° II	
greatest brilliancy	10547 Nov 29 23:02	22° B 08'31	-4.7m				
retrograde	10547 Dec 09 19:08	23° B 53'32		superior conj	10550 May 25 21:45	10° II 34'13	-1°27'29
evening set	10547 Dec 26 19:47	18° B 22'05		minimum elong	10550 May 25 23:34	10° II 39'55	1°27'57
inferior conj	10547 Dec 31 03:57	15° B 42'11	-6°46'30	max. Earth dist.	10550 May 25 10:27	9° II 58'43	1.71295 AU
minimum elong	10547 Dec 31 13:55	15° B 26'33	6°44'05		10550 Jun 10 08:45	0° E	
min. Earth dist.	10547 Dec 31 18:24	15° B 19'31	0.28790 AU		10550 Jul 04 06:40	0° Ω	
morning rise	10548 Jan 05 07:50	12° B 33'19		evening rise	10550 Jul 05 08:50	1° Ω 21'56	
direct	10548 Jan 21 14:20	7° B 26'14		asc. node	10550 Jul 18 11:38	17° Ω 45'47	
asc. node	10548 Jan 31 21:13	9° B 23'55			10550 Jul 28 07:18	0° M	
greatest brilliancy	10548 Feb 01 14:03	9° B 39'41	-4.8m		10550 Aug 21 12:07	0° Ω	
	10548 Mar 01 20:07	0° \approx			10550 Sep 14 22:59	0° M	
morning max el	10548 Mar 11 09:02	9° \approx 05'50	46°16'30		10550 Oct 09 19:10	0° X	
	10548 Mar 31 06:45	0° H			10550 Nov 04 06:06	0° B	
	10548 Apr 26 15:11	0° Y		desc. node	10550 Nov 07 07:14	3° B 31'37	
	10548 May 21 19:21	0° B			10550 Nov 30 17:32	0° \approx	
desc. node	10548 May 22 17:18	1° B 06'24			10550 Dec 29 07:19	0° H	
	10548 Jun 15 09:28	0° II		evening max el	10551 Jan 01 06:29	2° H 53'09	45°56'55
	10548 Jul 09 16:40	0° E			10551 Feb 05 15:25	0° Y	
	10548 Aug 02 21:20	0° Ω		greatest brilliancy	10551 Feb 09 14:09	1° Y 35'38	-4.8m
	10548 Aug 27 01:52	0° M		retrograde	10551 Feb 19 08:46	3° Y 21'21	
asc. node	10548 Sep 12 11:36	20° M 19'41		asc. node	10551 Feb 28 07:52	1° Y 44'58	
morning set	10548 Sep 12 23:46	20° M 57'22			10551 Mar 04 10:02	30° R H	
	10548 Sep 20 07:02	0° Ω		evening set	10551 Mar 06 00:27	29° H 10'26	
	10548 Oct 14 12:53	0° M		inferior conj	10551 Mar 12 06:41	25° H 28'06	2°59'14
				minimum elong	10551 Mar 12 00:08	25° H 38'17	2°57'19
superior conj	10548 Oct 20 15:09	7° M 32'10	1°15'46	min. Earth dist.	10551 Mar 12 11:20	25° H 20'54	0.27562 AU
minimum elong	10548 Oct 20 06:57	7° M 06'49	1°15'50	morning rise	10551 Mar 17 23:18	22° H 02'59	
max. Earth dist.	10548 Oct 22 02:50	9° M 22'27	1.73029 AU	direct	10551 Apr 02 05:29	17° H 28'05	
	10548 Nov 07 19:37	0° X		greatest brilliancy	10551 Apr 12 15:35	19° H 29'37	-4.9m
evening rise	10548 Nov 26 07:14	22° X 46'52			10551 Apr 30 08:03	0° Y	
	10548 Dec 02 04:03	0° B		morning max el	10551 May 22 14:52	20° Y 07'54	46°55'43
	10548 Dec 26 14:55	0° \approx			10551 Jun 01 03:36	0° B	
desc. node	10549 Jan 02 04:31	8° \approx 02'05		desc. node	10551 Jun 20 05:31	21° B 01'02	
	10549 Jan 20 04:17	0° H			10551 Jun 28 01:47	0° II	
	10549 Feb 13 19:55	0° Y			10551 Jul 23 13:47	0° E	
	10549 Mar 10 14:38	0° B			10551 Aug 17 12:02	0° Ω	
	10549 Apr 04 16:33	0° II			10551 Sep 11 04:30	0° M	
asc. node	10549 Apr 25 02:41	23° II 50'32			10551 Oct 05 18:04	0° Ω	
	10549 Apr 30 12:12	0° E		asc. node	10551 Oct 11 00:45	6° Ω 27'34	
	10549 May 28 06:05	0° Ω			10551 Oct 30 05:24	0° M	
evening max el	10549 May 29 02:46	0° Ω 52'10	46°53'02	morning set	10551 Nov 22 10:44	28° M 33'41	
	10549 Jul 04 13:42	0° M			10551 Nov 23 14:45	0° X	
greatest brilliancy	10549 Jul 07 22:06	1° M 25'28	-4.9m		10551 Dec 17 22:46	0° B	
retrograde	10549 Jul 18 11:42	3° M 30'06		max. Earth dist.	10551 Dec 28 08:11	12° B 49'31	1.73150 AU
	10549 Jul 31 17:12	30° R Ω					
evening set	10549 Aug 02 08:41	29° Ω 08'03		superior conj	10551 Dec 29 01:49	13° B 43'58	1°08'23
inferior conj	10549 Aug 08 08:24	25° Ω 35'06	1°42'51	minimum elong	10551 Dec 29 11:13	14° B 12'57	1°08'37
minimum elong	10549 Aug 08 12:19	25° Ω 29'05	1°41'16		10552 Jan 11 06:10	0° \approx	
min. Earth dist.	10549 Aug 08 01:51	25° Ω 45'10	0.27318 AU	desc. node	10552 Jan 30 17:04	24° \approx 01'28	

evening rise	10552 Feb 04 20:58	0° H 24'04		desc. node	10554 Jul 17 16:54	18° II 13'39	
	10552 Feb 04 13:11	0° H			10554 Jul 30 14:24	0° G	
	10552 Feb 28 19:27	0° Y		morning max el	10554 Aug 03 10:58	3° G 47'40	46°44'53
	10552 Mar 24 00:53	0° B			10554 Aug 28 04:33	0° Ω	
	10552 Apr 17 06:33	0° II			10554 Sep 23 14:45	0° M	
	10552 May 11 15:21	0° G			10554 Oct 19 04:50	0° Ω	
asc. node	10552 May 22 13:40	13° G 20'47		asc. node	10554 Nov 07 13:48	23° Ω 06'02	
	10552 Jun 05 08:09	0° Ω			10554 Nov 13 07:37	0° M	
	10552 Jun 30 17:16	0° M			10554 Dec 08 02:22	0° X	
	10552 Jul 27 13:27	0° Ω			10555 Jan 01 15:12	0° Z	
evening max el	10552 Aug 08 13:33	12° Ω 23'30	46°23'16		10555 Jan 25 24:00	0° \approx	
	10552 Aug 27 23:35	0° M		morning set	10555 Jan 30 06:04	5° \approx 15'05	
desc. node	10552 Sep 11 12:13	9° M 43'42			10555 Feb 19 05:54	0° H	
greatest brilliancy	10552 Sep 16 12:57	12° M 00'38	-4.8m	desc. node	10555 Feb 27 05:57	9° H 55'48	
retrograde	10552 Sep 27 10:52	14° M 12'15		max. Earth dist.	10555 Mar 06 19:21	19° H 19'19	1.72238 AU
evening set	10552 Oct 14 08:15	8° M 45'30					
inferior conj	10552 Oct 18 22:30	5° M 56'41	-7°35'05	superior conj	10555 Mar 09 19:29	23° H 03'40	-0°25'20
minimum elong	10552 Oct 18 13:38	6° M 10'34	7°33'29	minimum elong	10555 Mar 09 13:32	22° H 45'10	0°24'56
min. Earth dist.	10552 Oct 18 06:11	6° M 22'14	0.28735 AU		10555 Mar 15 09:14	0° Y	
morning rise	10552 Oct 22 19:15	3° M 33'58			10555 Apr 08 10:04	0° B	
	10552 Oct 29 17:42	30° R Ω		evening rise	10555 Apr 18 05:34	12° B 16'43	
direct	10552 Nov 09 05:55	27° Ω 48'49			10555 May 02 09:13	0° II	
greatest brilliancy	10552 Nov 19 02:14	29° Ω 33'32	-4.7m		10555 May 26 08:30	0° G	
	10552 Nov 20 07:47	0° M			10555 Jun 19 10:28	0° Ω	
morning max el	10552 Dec 28 01:27	27° M 46'20	45°42'44	asc. node	10555 Jun 20 01:19	0° Ω 46'05	
	10552 Dec 30 08:26	0° X			10555 Jul 13 17:58	0° M	
asc. node	10553 Jan 02 12:09	3° X 07'35			10555 Aug 07 10:43	0° Ω	
	10553 Jan 27 18:29	0° Z			10555 Sep 01 19:29	0° M	
	10553 Feb 22 22:08	0° \approx			10555 Sep 28 11:38	0° X	
	10553 Mar 20 01:49	0° H		desc. node	10555 Oct 09 22:36	12° X 05'16	
	10553 Apr 13 16:19	0° Y		evening max el	10555 Oct 19 13:30	21° X 41'07	45°50'36
desc. node	10553 Apr 24 06:27	13° Y 02'53			10555 Oct 28 12:38	0° Z	
	10553 May 07 22:39	0° B		greatest brilliancy	10555 Nov 27 14:01	19° Z 58'10	-4.7m
	10553 May 31 23:53	0° II		retrograde	10555 Dec 07 10:41	21° Z 43'22	
	10553 Jun 24 22:41	0° G		evening set	10555 Dec 24 14:27	16° Z 07'45	
morning set	10553 Jun 30 02:35	6° G 28'15		inferior conj	10555 Dec 28 19:50	13° Z 31'35	-6°58'58
	10553 Jul 18 21:24	0° Ω		minimum elong	10555 Dec 29 05:38	13° Z 16'12	6°56'40
				min. Earth dist.	10555 Dec 29 09:30	13° Z 10'08	0.28824 AU
superior conj	10553 Aug 08 13:28	25° Ω 49'58	-0°15'40	morning rise	10556 Jan 02 20:39	10° Z 26'55	
minimum elong	10553 Aug 08 17:20	26° Ω 02'01	0°15'48	direct	10556 Jan 19 06:53	5° Z 15'39	
behind sun begin	10553 Aug 08 12:16	25° Ω 46'13		greatest brilliancy	10556 Jan 30 04:58	7° Z 27'25	-4.8m
behind sun end	10553 Aug 08 22:23	26° Ω 17'49		asc. node	10556 Jan 30 23:06	7° Z 45'18	
max. Earth dist.	10553 Aug 11 05:50	29° Ω 10'44	1.71988 AU		10556 Mar 01 21:28	0° \approx	
	10553 Aug 11 21:38	0° M		morning max el	10556 Mar 09 00:16	6° \approx 51'26	46°14'46
asc. node	10553 Aug 15 00:21	3° M 52'52			10556 Mar 30 23:11	0° H	
	10553 Sep 05 00:11	0° Ω			10556 Apr 26 04:54	0° Y	
evening rise	10553 Sep 16 00:09	13° Ω 38'28			10556 May 21 07:49	0° B	
	10553 Sep 29 05:35	0° M		desc. node	10556 May 21 19:20	0° B 34'50	
	10553 Oct 23 14:53	0° X			10556 Jun 14 21:15	0° II	
	10553 Nov 17 05:45	0° Z			10556 Jul 09 03:59	0° G	
desc. node	10553 Dec 04 18:39	21° Z 08'53			10556 Aug 02 08:20	0° Ω	
	10553 Dec 12 04:05	0° \approx			10556 Aug 26 12:37	0° M	
	10554 Jan 06 11:55	0° H		morning set	10556 Sep 10 15:02	18° M 43'08	
	10554 Feb 01 09:33	0° Y		asc. node	10556 Sep 11 13:24	19° M 52'25	
	10554 Feb 28 11:01	0° B			10556 Sep 19 17:37	0° Ω	
evening max el	10554 Mar 14 13:34	14° B 34'56	46°35'09		10556 Oct 13 23:22	0° M	
asc. node	10554 Mar 27 18:15	27° B 00'59					
	10554 Mar 31 05:15	0° II		superior conj	10556 Oct 18 07:56	5° M 23'14	1°14'06
greatest brilliancy	10554 Apr 24 01:49	15° II 06'18	-4.9m	minimum elong	10556 Oct 17 23:20	4° M 56'41	1°14'10
retrograde	10554 May 03 17:34	16° II 52'13		max. Earth dist.	10556 Oct 19 22:08	7° M 21'20	1.73004 AU
evening set	10554 May 21 22:38	10° II 33'05			10556 Nov 07 06:06	0° X	
inferior conj	10554 May 24 09:05	9° II 03'54	9°13'37	evening rise	10556 Nov 24 00:08	20° X 38'39	
minimum elong	10554 May 24 10:04	9° II 02'22	9°13'07		10556 Dec 01 14:38	0° Z	
min. Earth dist.	10554 May 24 12:26	8° II 58'45	0.27195 AU		10556 Dec 26 01:42	0° \approx	
morning rise	10554 May 26 21:31	7° II 31'41		desc. node	10557 Jan 01 06:29	7° \approx 34'57	
direct	10554 Jun 14 01:53	1° II 13'31			10557 Jan 19 15:23	0° H	
greatest brilliancy	10554 Jun 23 20:39	3° II 02'21	-4.9m		10557 Feb 13 07:29	0° Y	

	10557 Mar 10 02:58	0°♄			10559 Aug 17 00:14	0°♏		
	10557 Apr 04 06:09	0°♅			10559 Sep 10 16:04	0°♎		
asc. node	10557 Apr 24 04:41	23°♅12'17			10559 Oct 05 05:13	0°♎		
	10557 Apr 30 04:14	0°♄		asc. node	10559 Oct 10 02:46	5°♎59'52		
evening max el	10557 May 26 16:40	28°♄30'07 46°53'10			10559 Oct 29 16:15	0°♎		
	10557 May 28 04:36	0°♏		morning set	10559 Nov 20 03:45	26°♎25'22		
greatest brilliancy	10557 Jul 05 13:53	29°♏05'37 -4.9m			10559 Nov 23 01:26	0°♄		
	10557 Jul 08 07:44	0°♎			10559 Dec 17 09:22	0°♄		
retrograde	10557 Jul 16 01:06	1°♎08'06		max. Earth dist.	10559 Dec 26 03:54	10°♄49'31 1.73167 AU		
	10557 Jul 23 12:31	30°♎♏						
evening set	10557 Jul 31 00:07	26°♏44'25		superior conj	10559 Dec 26 18:37	11°♄34'55 1°10'21		
inferior conj	10557 Aug 05 21:55	23°♏14'08 2°05'55		minimum elong	10559 Dec 27 03:46	12°♄03'10 1°10'37		
minimum elong	10557 Aug 06 02:40	23°♏06'48 2°04'04			10560 Jan 10 16:49	0°♎		
min. Earth dist.	10557 Aug 05 16:41	23°♏22'10 0.27285 AU		desc. node	10560 Jan 29 18:52	23°♎33'49		
morning rise	10557 Aug 12 05:45	19°♏31'39		evening rise	10560 Feb 02 12:27	28°♎10'21		
desc. node	10557 Aug 14 03:36	18°♏33'46			10560 Feb 03 23:58	0°♄		
direct	10557 Aug 26 18:04	15°♏26'25			10560 Feb 28 06:27	0°♄		
greatest brilliancy	10557 Sep 05 12:40	17°♏11'52 -4.8m			10560 Mar 23 12:08	0°♄		
	10557 Sep 26 21:45	0°♎			10560 Apr 16 18:08	0°♅		
morning max el	10557 Oct 14 23:01	16°♎00'41 45°59'32			10560 May 11 03:27	0°♄		
	10557 Oct 28 21:00	0°♎		asc. node	10560 May 21 15:43	12°♄49'12		
	10557 Nov 25 09:59	0°♎			10560 Jun 04 21:07	0°♏		
asc. node	10557 Dec 05 02:22	11°♎01'09			10560 Jun 30 07:54	0°♎		
	10557 Dec 21 10:25	0°♄			10560 Jul 27 08:04	0°♎		
	10558 Jan 15 15:33	0°♄		evening max el	10560 Aug 06 04:45	10°♎07'35 46°24'39		
	10558 Feb 09 09:05	0°♎			10560 Aug 28 12:24	0°♎		
	10558 Mar 05 19:12	0°♄		desc. node	10560 Sep 10 14:14	8°♎13'21		
desc. node	10558 Mar 26 19:10	26°♄01'04		greatest brilliancy	10560 Sep 14 03:34	9°♎46'15 -4.8m		
	10558 Mar 30 00:01	0°♄		retrograde	10560 Sep 25 03:12	11°♎59'41		
morning set	10558 Apr 12 22:14	17°♄21'53		evening set	10560 Oct 11 20:31	6°♎37'42		
	10558 Apr 23 00:43	0°♄		min. Earth dist.	10560 Oct 15 20:56	4°♎11'09 0.28693 AU		
	10558 May 16 22:37	0°♅		inferior conj	10560 Oct 16 14:08	3°♎44'19 -7°24'38		
max. Earth dist.	10558 May 22 13:49	7°♅04'42 1.71305 AU		minimum elong	10560 Oct 16 04:52	3°♎58'46 7°22'55		
				morning rise	10560 Oct 20 13:29	1°♎18'07		
superior conj	10558 May 23 09:16	8°♅05'49 -1°27'41			10560 Oct 22 20:14	30°♎♎		
minimum elong	10558 May 23 09:59	8°♅08'05 1°28'10		direct	10560 Nov 06 21:14	25°♎37'02		
	10558 Jun 09 19:32	0°♄		greatest brilliancy	10560 Nov 16 16:54	27°♎21'36 -4.7m		
evening rise	10558 Jul 02 20:15	28°♄53'29			10560 Nov 22 21:39	0°♎		
	10558 Jul 03 17:30	0°♏		morning max el	10560 Dec 25 17:15	25°♎35'15 45°42'26		
asc. node	10558 Jul 17 13:28	17°♏17'35			10560 Dec 30 05:25	0°♄		
	10558 Jul 27 18:13	0°♎		asc. node	10561 Jan 01 14:03	2°♄21'54		
	10558 Aug 20 23:11	0°♎			10561 Jan 27 09:40	0°♄		
	10558 Sep 14 10:22	0°♎			10561 Feb 22 11:15	0°♎		
	10558 Oct 09 07:10	0°♄			10561 Mar 19 13:57	0°♄		
	10558 Nov 03 19:15	0°♄			10561 Apr 13 03:57	0°♄		
desc. node	10558 Nov 06 09:19	2°♄59'09		desc. node	10561 Apr 23 08:24	12°♄33'28		
	10558 Nov 30 09:04	0°♎			10561 May 07 09:59	0°♄		
	10558 Dec 29 05:22	0°♄			10561 May 31 11:00	0°♅		
evening max el	10558 Dec 29 20:04	0°♄35'26 45°56'01			10561 Jun 24 09:38	0°♄		
greatest brilliancy	10559 Feb 07 04:20	29°♄17'25 -4.8m		morning set	10561 Jun 27 15:04	4°♄02'40		
	10559 Feb 09 11:15	0°♄			10561 Jul 18 08:15	0°♏		
retrograde	10559 Feb 16 22:24	1°♄03'04						
	10559 Feb 24 04:03	30°♄♄		superior conj	10561 Aug 06 03:08	23°♏29'06 -0°19'16		
asc. node	10559 Feb 27 09:50	28°♄51'39		minimum elong	10561 Aug 06 07:51	23°♏43'50 0°19'23		
evening set	10559 Mar 03 13:45	26°♄52'30		max. Earth dist.	10561 Aug 08 20:21	26°♏52'38 1.71952 AU		
inferior conj	10559 Mar 09 20:53	23°♄09'19 2°37'19			10561 Aug 11 08:26	0°♎		
minimum elong	10559 Mar 09 15:03	23°♄18'21 2°35'38		asc. node	10561 Aug 14 02:12	3°♎25'01		
min. Earth dist.	10559 Mar 10 02:28	23°♄00'39 0.27591 AU			10561 Sep 04 10:59	0°♎		
morning rise	10559 Mar 15 15:46	19°♄41'07		evening rise	10561 Sep 13 16:12	11°♎26'02		
direct	10559 Mar 30 19:36	15°♄08'30			10561 Sep 28 16:28	0°♎		
greatest brilliancy	10559 Apr 10 07:47	17°♄11'59 -4.9m			10561 Oct 23 01:55	0°♄		
	10559 Apr 30 21:06	0°♄			10561 Nov 16 17:08	0°♄		
morning max el	10559 May 20 04:57	17°♄46'53 46°55'07		desc. node	10561 Dec 03 20:32	20°♄39'13		
	10559 May 31 22:34	0°♄			10561 Dec 11 16:04	0°♎		
desc. node	10559 Jun 19 07:32	20°♄21'56			10562 Jan 06 00:56	0°♄		
	10559 Jun 27 16:42	0°♅			10562 Feb 01 00:26	0°♄		
	10559 Jul 23 02:58	0°♄			10562 Feb 28 06:03	0°♄		

evening max el	10562 Mar 12 04:12	12°  14'58	46°33'48	asc. node	10564 Sep 10 15:24	19°  24'49	
asc. node	10562 Mar 26 20:20	25°  57'05			10564 Sep 19 04:29	0° 	
	10562 Mar 31 16:45	0° 			10564 Oct 13 10:06	0° 	
greatest brilliancy	10562 Apr 21 13:59	12°  40'06	-4.9m				
retrograde	10562 May 01 06:55	14°  26'31		superior conj	10564 Oct 16 00:56	3°  14'13	1°12'22
evening set	10562 May 19 10:49	8°  08'29		minimum elong	10564 Oct 15 16:00	2°  46'38	1°12'23
inferior conj	10562 May 21 21:57	6°  38'07	9°14'02	max. Earth dist.	10564 Oct 17 16:28	5°  16'25	1.72976 AU
minimum elong	10562 May 21 21:57	6°  38'06	9°13'35		10564 Nov 06 16:50	0° 	
min. Earth dist.	10562 May 22 00:28	6°  34'15	0.27200 AU	evening rise	10564 Nov 21 17:16	18°  30'26	
morning rise	10562 May 24 09:06	5°  07'46			10564 Dec 01 01:29	0° 	
	10562 Jun 03 23:53	30° 			10564 Dec 25 12:46	0° 	
direct	10562 Jun 11 15:29	28°  47'47		desc. node	10564 Dec 31 08:19	7° 	06'31
	10562 Jun 19 12:58	0° 			10565 Jan 19 02:49	0° 	
greatest brilliancy	10562 Jun 21 08:43	0°  35'33	-4.9m		10565 Feb 12 19:26	0° 	
desc. node	10562 Jul 16 18:43	17°  06'57			10565 Mar 09 15:41	0° 	
	10562 Jul 30 14:27	0° 			10565 Apr 03 20:11	0° 	
morning max el	10562 Aug 01 00:58	1°  25'43	46°46'12	asc. node	10565 Apr 23 06:42	22°  32'52	
	10562 Aug 27 21:10	0° 			10565 Apr 29 20:52	0° 	
	10562 Sep 23 04:39	0° 		evening max el	10565 May 24 05:23	26°  04'09	46°53'16
	10562 Oct 18 17:22	0° 			10565 May 28 04:30	0° 	
asc. node	10562 Nov 06 15:44	22°  36'11		greatest brilliancy	10565 Jul 03 05:34	26°  04'29	-4.9m
	10562 Nov 12 19:22	0° 		retrograde	10565 Jul 13 14:14	28°  04'59	
	10562 Dec 07 13:37	0° 		evening set	10565 Jul 28 15:37	24°  01'08	
	10563 Jan 01 02:11	0° 		inferior conj	10565 Aug 03 11:21	20°  05'20	2°28'48
	10563 Jan 25 10:51	0° 		minimum elong	10565 Aug 03 16:56	20°  04'25	2°26'41
morning set	10563 Jan 27 22:05	3°  02'50		min. Earth dist.	10565 Aug 03 07:36	20°  05'46	0.27258 AU
	10563 Feb 18 16:45	0° 		morning rise	10565 Aug 09 18:38	17°  09'58	
desc. node	10563 Feb 26 07:50	9°  28'01		desc. node	10565 Aug 13 05:39	15°  09'35	
max. Earth dist.	10563 Mar 04 08:36	16°  57'37	1.72280 AU	direct	10565 Aug 24 06:37	13°  04'23	
				greatest brilliancy	10565 Sep 03 02:53	14°  05'01	-4.8m
superior conj	10563 Mar 07 09:03	20°  42'47	-0°21'47		10565 Sep 27 08:31	0° 	
minimum elong	10563 Mar 07 03:55	20°  26'49	0°21'24	morning max el	10565 Oct 12 12:13	13°  40'36	46°01'06
	10563 Mar 14 20:07	0° 			10565 Oct 28 15:31	0° 	
	10563 Apr 07 21:04	0° 			10565 Nov 25 00:25	0° 	
evening rise	10563 Apr 15 17:51	9°  50'22		asc. node	10565 Dec 04 04:14	10°  27'14	
	10563 May 01 20:20	0° 			10565 Dec 20 23:07	0° 	
	10563 May 25 19:48	0° 			10566 Jan 15 03:23	0° 	
	10563 Jun 18 22:01	0° 			10566 Feb 08 20:28	0° 	
asc. node	10563 Jun 19 03:09	0°  01'57		desc. node	10566 Mar 05 06:21	0° 	
	10563 Jul 13 05:53	0° 			10566 Mar 25 21:09	25°  32'59	
	10563 Aug 06 23:17	0° 			10566 Mar 29 11:02	0° 	
	10563 Sep 01 09:19	0° 		morning set	10566 Apr 10 09:46	14°  53'36	
	10563 Sep 28 04:27	0° 			10566 Apr 22 11:41	0° 	
desc. node	10563 Oct 09 00:38	11°  21'13			10566 May 16 09:34	0° 	
evening max el	10563 Oct 17 04:48	19°  28'39	45°51'05	max. Earth dist.	10566 May 19 18:50	4°  15'19	1.71315 AU
	10563 Oct 28 16:13	0° 					
greatest brilliancy	10563 Nov 25 05:35	17°  34'40	-4.7m	superior conj	10566 May 20 20:37	5°  36'19	-1°27'43
retrograde	10563 Dec 05 01:52	19°  32'36		minimum elong	10566 May 20 20:16	5°  35'12	1°28'12
evening set	10563 Dec 22 09:10	13°  52'52			10566 Jun 09 06:31	0° 	
inferior conj	10563 Dec 26 11:53	11°  20'27	-7°10'39	evening rise	10566 Jun 30 07:36	26°  04'19	
minimum elong	10563 Dec 26 21:26	11°  05'26	7°08'30		10566 Jul 03 04:30	0° 	
min. Earth dist.	10563 Dec 27 01:01	10°  59'47	0.28857 AU	asc. node	10566 Jul 16 15:23	16°  04'03	
morning rise	10563 Dec 31 09:31	8°  20'00			10566 Jul 27 05:19	0° 	
direct	10564 Jan 16 23:09	3°  04'25			10566 Aug 20 10:28	0° 	
greatest brilliancy	10564 Jan 27 20:32	5°  15'01	-4.8m		10566 Sep 13 22:00	0° 	
asc. node	10564 Jan 30 01:03	6°  09'18			10566 Oct 08 19:24	0° 	
	10564 Mar 01 21:59	0° 			10566 Nov 03 08:38	0° 	
morning max el	10564 Mar 06 14:40	4°  34'00	46°13'05	desc. node	10566 Nov 05 11:15	2°  35'44	
	10564 Mar 30 15:39	0° 			10566 Nov 30 00:58	0° 	
	10564 Apr 25 18:48	0° 		evening max el	10566 Dec 27 10:05	28°  18'49	45°55'12
desc. node	10564 May 20 21:14	0°  02'12			10566 Dec 29 04:26	0° 	
	10564 May 20 20:30	0° 		greatest brilliancy	10567 Feb 04 17:54	26°  38'31	-4.8m
	10564 Jun 14 09:15	0° 		retrograde	10567 Feb 14 12:37	28°  34'43	
	10564 Jul 08 15:35	0° 		asc. node	10567 Feb 26 11:54	25°  33'27	
	10564 Aug 01 19:38	0° 		evening set	10567 Mar 01 03:20	24°  34'06	
	10564 Aug 25 23:41	0° 		inferior conj	10567 Mar 07 11:05	20°  35'10	2°15'14
morning set	10564 Sep 08 06:24	16°  28'12		minimum elong	10567 Mar 07 06:01	20°  38'01	2°13'48

min. Earth dist.	10567 Mar 07 17:16	20° Υ 40'35	0.27626 AU		10569 Sep 03 21:40	0° Ω	
morning rise	10567 Mar 13 08:07	17° Υ 19'16		evening rise	10569 Sep 11 07:42	9° Ω 12'14	
direct	10567 Mar 28 10:13	12° Υ 48'36			10569 Sep 28 03:12	0° \mathbb{M}	
greatest brilliancy	10567 Apr 07 23:36	14° Υ 53'33	-4.9m		10569 Oct 22 12:50	0° \mathcal{A}	
	10567 May 01 07:03	0° Υ			10569 Nov 16 04:24	0° \mathcal{Z}	
morning max el	10567 May 17 20:03	15° Υ 27'55	46°54'21	desc. node	10569 Dec 02 22:25	20° \mathcal{Z} 09'53	
	10567 May 31 17:15	0° \mathcal{B}			10569 Dec 11 03:57	0° \approx	
desc. node	10567 Jun 18 09:23	19° \mathcal{B} 42'13			10570 Jan 05 13:52	0° Υ	
	10567 Jun 27 07:36	0° \mathbb{I}			10570 Jan 31 15:17	0° Υ	
	10567 Jul 22 16:10	0° \mathcal{E}			10570 Feb 28 01:17	0° \mathcal{B}	
	10567 Aug 16 12:28	0° Ω		evening max el	10570 Mar 09 18:28	9° \mathcal{B} 55'05	46°32'26
	10567 Sep 10 03:41	0° \mathbb{P}		asc. node	10570 Mar 25 22:16	24° \mathcal{B} 52'19	
	10567 Oct 04 16:24	0° Ω			10570 Apr 01 07:33	0° \mathbb{I}	
asc. node	10567 Oct 09 04:38	5° Ω 31'32		greatest brilliancy	10570 Apr 19 02:33	10° \mathbb{I} 15'31	-4.9m
	10567 Oct 29 03:10	0° \mathbb{M}		retrograde	10570 Apr 28 19:46	12° \mathbb{I} 01'47	
morning set	10567 Nov 17 20:47	24° \mathbb{M} 16'53		evening set	10570 May 16 22:27	5° \mathbb{I} 46'00	
	10567 Nov 22 12:10	0° \mathcal{A}		inferior conj	10570 May 19 10:53	4° \mathbb{I} 13'28	9°13'30
	10567 Dec 16 20:02	0° \mathcal{Z}		minimum elong	10570 May 19 09:53	4° \mathbb{I} 15'00	9°13'02
				min. Earth dist.	10570 May 19 12:45	4° \mathbb{I} 10'35	0.27208 AU
superior conj	10567 Dec 24 11:34	9° \mathcal{Z} 26'14	1°12'13	morning rise	10570 May 21 21:21	2° \mathbb{I} 43'58	
minimum elong	10567 Dec 24 20:26	9° \mathcal{Z} 53'38	1°12'31		10570 May 26 17:43	30° \mathcal{R} \mathcal{B}	
max. Earth dist.	10567 Dec 24 00:52	8° \mathcal{Z} 53'13	1.73177 AU	direct	10570 Jun 09 04:52	26° \mathcal{B} 23'09	
	10568 Jan 10 03:29	0° \approx		greatest brilliancy	10570 Jun 18 21:16	28° \mathcal{B} 10'01	-4.9m
desc. node	10568 Jan 28 20:51	23° \approx 06'43			10570 Jun 23 06:20	0° \mathbb{I}	
evening rise	10568 Jan 31 04:08	25° \approx 57'23		desc. node	10570 Jul 15 20:49	16° \mathbb{I} 03'15	
	10568 Feb 03 10:44	0° Υ		morning max el	10570 Jul 29 14:02	29° \mathbb{I} 01'46	46°47'18
	10568 Feb 27 17:26	0° Υ			10570 Jul 30 13:16	0° \mathcal{E}	
	10568 Mar 22 23:25	0° \mathcal{B}			10570 Aug 27 13:19	0° Ω	
	10568 Apr 16 05:49	0° \mathbb{I}			10570 Sep 22 18:15	0° \mathbb{P}	
	10568 May 10 15:41	0° \mathcal{E}			10570 Oct 18 05:37	0° Ω	
asc. node	10568 May 20 17:32	12° \mathcal{E} 16'32		asc. node	10570 Nov 05 17:36	22° Ω 06'56	
	10568 Jun 04 10:16	0° Ω			10570 Nov 12 06:49	0° \mathbb{M}	
	10568 Jun 29 22:48	0° \mathbb{P}			10570 Dec 07 00:35	0° \mathcal{A}	
	10568 Jul 27 03:15	0° Ω			10570 Dec 31 12:54	0° \mathcal{Z}	
evening max el	10568 Aug 03 20:30	7° Ω 52'57	46°26'08		10571 Jan 24 21:27	0° \approx	
	10568 Aug 29 05:42	0° \mathbb{M}		morning set	10571 Jan 25 14:06	0° \approx 51'23	
desc. node	10568 Sep 09 16:16	6° \mathbb{M} 39'43			10571 Feb 18 03:19	0° Υ	
greatest brilliancy	10568 Sep 11 18:01	7° \mathbb{M} 31'30	-4.8m	desc. node	10571 Feb 25 09:50	9° Υ 01'25	
retrograde	10568 Sep 22 19:35	9° \mathbb{M} 46'31		max. Earth dist.	10571 Mar 01 21:05	14° Υ 34'26	1.72319 AU
evening set	10568 Oct 09 08:43	4° \mathbb{M} 29'28					
min. Earth dist.	10568 Oct 13 11:18	1° \mathbb{M} 59'53	0.28648 AU	superior conj	10571 Mar 04 22:54	18° Υ 23'48	-0°18'14
inferior conj	10568 Oct 14 05:34	1° \mathbb{M} 31'24	-7°13'33	minimum elong	10571 Mar 04 18:36	18° Υ 10'26	0°17'51
minimum elong	10568 Oct 13 19:59	1° \mathbb{M} 46'21	7°11'42		10571 Mar 14 06:43	0° Υ	
	10568 Oct 16 16:39	30° \mathcal{R} Ω			10571 Apr 07 07:43	0° \mathcal{B}	
morning rise	10568 Oct 18 07:36	29° Ω 01'35		evening rise	10571 Apr 13 06:29	7° \mathcal{B} 26'21	
direct	10568 Nov 04 12:47	23° Ω 24'55			10571 May 01 07:06	0° \mathbb{I}	
greatest brilliancy	10568 Nov 14 06:50	25° Ω 08'36	-4.7m		10571 May 25 06:44	0° \mathcal{E}	
	10568 Nov 24 12:17	0° \mathbb{M}		asc. node	10571 Jun 18 05:07	29° \mathcal{E} 47'16	
morning max el	10568 Dec 23 09:06	23° \mathbb{M} 24'28	45°42'13		10571 Jun 18 09:14	0° Ω	
	10568 Dec 30 01:36	0° \mathcal{A}			10571 Jul 12 17:31	0° \mathbb{P}	
asc. node	10568 Dec 31 15:58	1° \mathcal{A} 37'06			10571 Aug 06 11:38	0° Ω	
	10569 Jan 27 00:32	0° \mathcal{Z}			10571 Aug 31 23:02	0° \mathbb{M}	
	10569 Feb 22 00:07	0° \approx			10571 Sep 27 21:23	0° \mathcal{A}	
	10569 Mar 19 01:53	0° Υ		desc. node	10571 Oct 08 02:35	10° \mathcal{A} 37'02	
	10569 Apr 12 15:24	0° Υ		evening max el	10571 Oct 14 19:06	17° \mathcal{A} 14'20	45°51'43
desc. node	10569 Apr 22 10:16	12° Υ 04'20			10571 Oct 28 21:22	0° \mathcal{Z}	
	10569 May 06 21:09	0° \mathcal{B}		greatest brilliancy	10571 Nov 22 21:13	15° \mathcal{Z} 37'51	-4.7m
	10569 May 30 22:00	0° \mathbb{I}		retrograde	10571 Dec 02 16:53	17° \mathcal{Z} 22'37	
	10569 Jun 23 20:31	0° \mathcal{E}		evening set	10571 Dec 20 03:43	11° \mathcal{Z} 38'38	
morning set	10569 Jun 25 03:06	1° \mathcal{E} 35'51		inferior conj	10571 Dec 24 03:50	9° \mathcal{Z} 10'03	-7°21'46
	10569 Jul 17 19:01	0° Ω		minimum elong	10571 Dec 24 13:04	8° \mathcal{Z} 55'31	7°19'45
				min. Earth dist.	10571 Dec 24 16:35	8° \mathcal{Z} 49'58	0.28890 AU
superior conj	10569 Aug 03 16:11	21° Ω 06'28	-0°22'54	morning rise	10571 Dec 28 22:14	6° \mathcal{Z} 14'04	
minimum elong	10569 Aug 03 21:45	21° Ω 23'52	0°23'00	direct	10572 Jan 14 14:54	0° \mathcal{Z} 53'45	
max. Earth dist.	10569 Aug 06 11:34	24° Ω 36'51	1.71913 AU	greatest brilliancy	10572 Jan 25 12:28	3° \mathcal{Z} 03'56	-4.8m
	10569 Aug 10 19:08	0° \mathbb{P}		asc. node	10572 Jan 29 03:11	4° \mathcal{Z} 37'34	
asc. node	10569 Aug 13 04:12	2° \mathbb{P} 57'54			10572 Mar 01 21:01	0° \approx	

morning max el	10572 Mar 04 04:48	2°≈16'48	46°11'35	desc. node	10574 Nov 04 13:08	1°☾53'02	
	10572 Mar 30 07:28	0°☿			10574 Nov 29 16:48	0°≈	
	10572 Apr 25 08:10	0°☿		evening max el	10574 Dec 25 01:04	26°≈05'31	45°54'23
desc. node	10572 May 19 23:06	29°☿30'54			10574 Dec 29 04:14	0°☿	
	10572 May 20 08:42	0°♄		greatest brilliancy	10575 Feb 02 07:19	24°☿40'29	-4.8m
	10572 Jun 13 20:47	0°♅		retrograde	10575 Feb 12 03:07	26°☿27'10	
	10572 Jul 08 02:43	0°♄		asc. node	10575 Feb 25 13:49	22°☿52'15	
	10572 Aug 01 06:29	0°♁		evening set	10575 Feb 26 17:12	22°☿16'30	
	10572 Aug 25 10:20	0°♂		inferior conj	10575 Mar 05 01:16	18°☿31'55	1°53'00
morning set	10572 Sep 05 21:35	14°♂13'43		minimum elong	10575 Mar 04 21:00	18°☿38'31	1°51'49
asc. node	10572 Sep 09 17:17	18°♂57'59		min. Earth dist.	10575 Mar 05 07:51	18°☿21'43	0.27661 AU
	10572 Sep 18 14:59	0°♁		morning rise	10575 Mar 11 00:19	14°☿58'29	
	10572 Oct 12 20:31	0°♂		direct	10575 Mar 26 01:16	10°☿29'46	
				greatest brilliancy	10575 Apr 05 14:47	12°☿35'20	-4.9m
superior conj	10572 Oct 13 17:37	1°♂05'16	1°10'30		10575 May 01 13:56	0°☿	
minimum elong	10572 Oct 13 08:24	0°♂36'46	1°10'28	morning max el	10575 May 15 11:30	13°☿10'49	46°53'27
max. Earth dist.	10572 Oct 15 08:12	3°♂04'32	1.72951 AU		10575 May 31 11:11	0°♄	
	10572 Nov 06 03:15	0°♂		desc. node	10575 Jun 17 11:25	19°♄04'11	
evening rise	10572 Nov 19 10:06	16°♂22'20			10575 Jun 26 22:02	0°♅	
	10572 Nov 30 12:00	0°☾			10575 Jul 22 04:59	0°♄	
	10572 Dec 24 23:31	0°≈			10575 Aug 16 00:21	0°♁	
desc. node	10572 Dec 30 10:18	6°≈39'33			10575 Sep 09 14:56	0°♂	
	10573 Jan 18 13:55	0°☿			10575 Oct 04 03:15	0°♁	
	10573 Feb 12 07:04	0°☿		asc. node	10575 Oct 08 06:28	5°♁04'07	
	10573 Mar 09 04:09	0°♄			10575 Oct 28 13:45	0°♂	
	10573 Apr 03 09:59	0°♅		morning set	10575 Nov 15 14:04	22°♂10'05	
asc. node	10573 Apr 22 08:37	21°♅54'01			10575 Nov 21 22:37	0°♂	
	10573 Apr 29 13:23	0°♄			10575 Dec 16 06:26	0°☾	
evening max el	10573 May 21 17:55	23°♄39'15	46°53'33				
	10573 May 28 04:55	0°♁		superior conj	10575 Dec 22 04:38	7°☾18'36	1°13'58
greatest brilliancy	10573 Jun 30 20:57	24°♁24'50	-4.9m	minimum elong	10575 Dec 22 13:10	7°☾44'58	1°14'17
retrograde	10573 Jul 11 03:53	26°♁24'30		max. Earth dist.	10575 Dec 21 21:44	6°☾57'19	1.73191 AU
evening set	10573 Jul 26 07:25	21°♁55'34			10576 Jan 09 13:57	0°≈	
inferior conj	10573 Aug 01 00:58	18°♁31'52	2°51'20	desc. node	10576 Jan 27 22:48	22°≈40'03	
minimum elong	10573 Aug 01 07:20	18°♁22'06	2°48'59	evening rise	10576 Jan 28 19:46	23°≈44'46	
min. Earth dist.	10573 Jul 31 22:28	18°♁35'43	0.27234 AU		10576 Feb 02 21:22	0°☿	
morning rise	10573 Aug 07 07:32	14°♁50'53			10576 Feb 27 04:17	0°☿	
desc. node	10573 Aug 12 07:40	12°♁32'33			10576 Mar 22 10:33	0°♄	
direct	10573 Aug 21 19:24	10°♁44'14			10576 Apr 15 17:21	0°♅	
greatest brilliancy	10573 Aug 31 17:12	12°♁32'12	-4.8m		10576 May 10 03:49	0°♄	
	10573 Sep 27 15:41	0°♂		asc. node	10576 May 19 19:32	11°♄44'45	
morning max el	10573 Oct 10 02:19	11°♂24'00	46°02'30		10576 Jun 03 23:23	0°♁	
	10573 Oct 28 09:04	0°♁			10576 Jun 29 13:46	0°♂	
	10573 Nov 24 14:19	0°♂			10576 Jul 26 22:50	0°♁	
asc. node	10573 Dec 03 06:12	9°♂54'51		evening max el	10576 Aug 01 12:52	5°♁40'13	46°27'40
	10573 Dec 20 11:24	0°♂			10576 Aug 30 04:42	0°♂	
	10574 Jan 14 14:51	0°☾		desc. node	10576 Sep 08 18:12	5°♂03'38	
	10574 Feb 08 07:29	0°≈		greatest brilliancy	10576 Sep 09 09:20	5°♂18'38	-4.8m
	10574 Mar 04 17:07	0°☿		retrograde	10576 Sep 20 12:03	7°♂34'17	
desc. node	10574 Mar 24 22:55	25°☿05'15		evening set	10576 Oct 06 21:15	2°♂22'25	
	10574 Mar 28 21:42	0°☿			10576 Oct 10 19:20	30°♂♁	
morning set	10574 Apr 07 21:19	12°☿26'34		min. Earth dist.	10576 Oct 11 01:59	29°♁49'38	0.28596 AU
	10574 Apr 21 22:19	0°♄		inferior conj	10576 Oct 11 21:12	29°♁19'42	-7°01'53
	10574 May 15 20:12	0°♅		minimum elong	10576 Oct 11 11:22	29°♁35'01	6°59'53
max. Earth dist.	10574 May 17 02:04	1°♅33'49	1.71326 AU	morning rise	10576 Oct 16 01:55	26°♁46'03	
				direct	10576 Nov 02 04:36	21°♁14'16	
superior conj	10574 May 18 07:59	3°♅07'50	-1°27'35	greatest brilliancy	10576 Nov 11 20:33	22°♁56'24	-4.7m
minimum elong	10574 May 18 06:33	3°♅03'19	1°28'02		10576 Nov 25 14:34	0°♂	
	10574 Jun 08 17:09	0°♄		morning max el	10576 Dec 21 00:27	21°♂13'14	45°41'51
evening rise	10574 Jun 27 19:06	23°♄56'44			10576 Dec 29 20:53	0°♂	
	10574 Jul 02 15:09	0°♁		asc. node	10576 Dec 30 18:04	0°♂54'04	
asc. node	10574 Jul 15 17:22	16°♁21'58			10577 Jan 26 15:04	0°☾	
	10574 Jul 26 16:00	0°♂			10577 Feb 21 12:51	0°≈	
	10574 Aug 19 21:20	0°♁			10577 Mar 18 13:46	0°☿	
	10574 Sep 13 09:13	0°♂			10577 Apr 12 02:49	0°☿	
	10574 Oct 08 07:17	0°♂		desc. node	10577 Apr 21 12:12	11°☿35'26	
	10574 Nov 02 21:47	0°☾			10577 May 06 08:18	0°♄	

	10577 May 30 08:58	0°♊			10579 Oct 29 05:10	0°♊	
morning set	10577 Jun 22 15:00	29°♊08'45		greatest brilliancy	10579 Nov 20 12:46	13°♊27'26	-4.7m
	10577 Jun 23 07:21	0°♋		retrograde	10579 Nov 30 08:27	15°♊12'39	
	10577 Jul 17 05:48	0°♌		evening set	10579 Dec 17 22:22	9°♊24'17	
				inferior conj	10579 Dec 21 19:59	6°♊59'34	-7°32'09
superior conj	10577 Aug 01 05:11	18°♌43'38	-0°26'31	minimum elong	10579 Dec 22 04:52	6°♊45'35	7°30'17
minimum elong	10577 Aug 01 11:35	19°♌03'35	0°26'35	min. Earth dist.	10579 Dec 22 08:18	6°♊40'10	0.28919 AU
max. Earth dist.	10577 Aug 04 02:32	22°♌20'11	1.71872 AU	morning rise	10579 Dec 26 11:09	4°♊08'17	
	10577 Aug 10 05:53	0°♍			10580 Jan 04 06:26	30°♋♌	
asc. node	10577 Aug 12 06:03	2°♍30'12		direct	10580 Jan 12 06:32	28°♋42'57	
	10577 Sep 03 08:24	0°♎			10580 Jan 20 14:07	0°♋	
evening rise	10577 Sep 08 23:13	6°♎58'17		greatest brilliancy	10580 Jan 23 04:42	0°♋53'09	-4.8m
	10577 Sep 27 13:58	0°♏		asc. node	10580 Jan 28 05:01	3°♋08'27	
	10577 Oct 21 23:45	0°♐			10580 Mar 01 19:15	0°♌	
	10577 Nov 15 15:40	0°♑		morning max el	10580 Mar 01 19:39	0°♌00'57	46°10'04
desc. node	10577 Dec 02 00:30	19°♑41'09			10580 Mar 29 23:16	0°♍	
	10577 Dec 10 15:52	0°♒			10580 Apr 24 21:45	0°♎	
	10578 Jan 05 02:55	0°♋		desc. node	10580 May 19 01:07	28°♎58'57	
	10578 Jan 31 06:26	0°♌			10580 May 19 21:13	0°♏	
	10578 Feb 27 21:18	0°♍			10580 Jun 13 08:43	0°♐	
evening max el	10578 Mar 07 08:01	7°♍32'51	46°30'52		10580 Jul 07 14:16	0°♑	
asc. node	10578 Mar 25 00:14	23°♍45'12			10580 Jul 31 17:45	0°♒	
	10578 Apr 02 03:53	0°♓			10580 Aug 24 21:22	0°♓	
greatest brilliancy	10578 Apr 16 15:49	7°♓51'00	-4.9m	morning set	10580 Sep 03 12:24	11°♓56'50	
retrograde	10578 Apr 26 08:11	9°♓36'29		asc. node	10580 Sep 08 19:06	18°♓29'43	
evening set	10578 May 14 09:28	3°♓24'01			10580 Sep 18 01:52	0°♔	
inferior conj	10578 May 16 23:51	1°♓48'23	9°11'54				
minimum elong	10578 May 16 21:52	1°♓51'27	9°11'23	superior conj	10580 Oct 11 10:09	28°♔54'33	1°08'31
min. Earth dist.	10578 May 17 01:29	1°♓45'52	0.27215 AU	minimum elong	10580 Oct 11 00:41	28°♔25'15	1°08'26
morning rise	10578 May 19 10:16	0°♔18'45			10580 Oct 12 07:19	0°♕	
	10578 May 19 22:44	30°♕♌		max. Earth dist.	10580 Oct 12 23:47	0°♕50'54	1.72926 AU
direct	10578 Jun 06 17:39	23°♕57'56			10580 Nov 05 14:04	0°♎	
greatest brilliancy	10578 Jun 16 10:25	25°♕44'38	-4.9m	evening rise	10580 Nov 17 03:05	14°♎13'30	
	10578 Jun 25 07:38	0°♖			10580 Nov 29 22:56	0°♏	
desc. node	10578 Jul 14 22:50	15°♖00'32			10580 Dec 24 10:39	0°♐	
morning max el	10578 Jul 27 02:19	26°♖35'15	46°48'27	desc. node	10580 Dec 29 12:15	6°♐11'22	
	10578 Jul 30 11:21	0°♑			10581 Jan 18 01:22	0°♋	
	10578 Aug 27 05:21	0°♒			10581 Feb 11 19:03	0°♌	
	10578 Sep 22 07:53	0°♓			10581 Mar 08 16:59	0°♍	
	10578 Oct 17 17:59	0°♔			10581 Apr 03 00:18	0°♎	
asc. node	10578 Nov 04 19:34	21°♔37'35		asc. node	10581 Apr 21 10:37	21°♔13'52	
	10578 Nov 11 18:23	0°♕			10581 Apr 29 06:42	0°♑	
	10578 Dec 06 11:40	0°♎		evening max el	10581 May 19 07:03	21°♑14'24	46°53'34
	10578 Dec 30 23:43	0°♏			10581 May 28 07:23	0°♒	
morning set	10579 Jan 23 06:33	28°♏40'54		greatest brilliancy	10581 Jun 28 11:32	22°♒01'55	-4.9m
	10579 Jan 24 08:10	0°♐		retrograde	10581 Jul 08 17:48	24°♒01'12	
	10579 Feb 17 14:03	0°♑		evening set	10581 Jul 23 23:05	19°♒28'56	
desc. node	10579 Feb 24 11:39	8°♑33'41		inferior conj	10581 Jul 29 14:16	16°♒08'52	3°13'51
max. Earth dist.	10579 Feb 27 11:26	12°♑16'31	1.72367 AU	minimum elong	10581 Jul 29 21:23	15°♒57'58	3°11'17
				min. Earth dist.	10581 Jul 29 12:44	16°♒11'13	0.27214 AU
superior conj	10579 Mar 02 13:04	16°♑05'14	-0°14'40	morning rise	10581 Aug 04 19:55	12°♒29'28	
minimum elong	10579 Mar 02 09:37	15°♑54'29	0°14'19	desc. node	10581 Aug 11 09:33	9°♒37'47	
behind sun begin	10579 Mar 01 22:18	15°♑19'21		direct	10581 Aug 19 08:15	8°♒21'13	
behind sun end	10579 Mar 02 20:55	16°♑29'37		greatest brilliancy	10581 Aug 29 06:46	10°♒10'11	-4.8m
	10579 Mar 13 17:32	0°♓			10581 Sep 27 21:28	0°♓	
	10579 Apr 06 18:38	0°♔		morning max el	10581 Oct 07 17:04	9°♓07'12	46°04'00
evening rise	10579 Apr 10 19:12	5°♔01'44			10581 Oct 28 02:49	0°♔	
	10579 Apr 30 18:10	0°♕			10581 Nov 24 04:33	0°♕	
	10579 May 24 18:00	0°♖		asc. node	10581 Dec 02 08:11	9°♕21'20	
asc. node	10579 Jun 17 07:07	29°♖17'41			10581 Dec 20 00:04	0°♎	
	10579 Jun 17 20:46	0°♗			10582 Jan 14 02:42	0°♏	
	10579 Jul 12 05:30	0°♘			10582 Feb 07 18:52	0°♐	
	10579 Aug 06 00:21	0°♙			10582 Mar 04 04:15	0°♑	
	10579 Aug 31 13:13	0°♒		desc. node	10582 Mar 24 00:54	24°♑37'10	
	10579 Sep 27 15:03	0°♓			10582 Mar 28 08:42	0°♒	
desc. node	10579 Oct 07 04:34	9°♓51'24		morning set	10582 Apr 05 09:32	10°♓00'40	
evening max el	10579 Oct 12 09:08	14°♓58'30	45°52'30		10582 Apr 21 09:17	0°♔	

max. Earth dist.	10582 May 14 12:55	29°♄02'36	1.71344 AU	minimum elong	10584 Oct 09 02:34	27°♂21'47	6°47'11
	10582 May 15 07:11	0°♂		morning rise	10584 Oct 13 20:03	24°♂28'26	
				direct	10584 Oct 30 20:01	19°♂01'45	
superior conj	10582 May 15 19:37	0°♂39'02	-1°27'16	greatest brilliancy	10584 Nov 09 10:30	20°♂42'36	-4.7m
minimum elong	10582 May 15 17:05	0°♂31'07	1°27'42		10584 Nov 26 10:30	0°♂	
	10582 Jun 08 04:10	0°♄		morning max el	10584 Dec 18 14:44	18°♂58'10	45°41'38
evening rise	10582 Jun 25 06:29	21°♄27'22		asc. node	10584 Dec 29 19:57	0°♄10'00	
	10582 Jul 02 02:14	0°♂			10584 Dec 29 16:04	0°♄	
asc. node	10582 Jul 14 19:12	15°♂52'52			10585 Jan 26 05:44	0°♄	
	10582 Jul 26 03:13	0°♄			10585 Feb 21 01:45	0°♄	
	10582 Aug 19 08:45	0°♂			10585 Mar 18 01:48	0°♄	
	10582 Sep 12 21:01	0°♂			10585 Apr 11 14:24	0°♄	
	10582 Oct 07 19:45	0°♄		desc. node	10585 Apr 20 14:10	11°♄06'08	
	10582 Nov 02 11:35	0°♄			10585 May 05 19:35	0°♄	
desc. node	10582 Nov 03 15:14	1°♄19'14			10585 May 29 20:02	0°♂	
	10582 Nov 29 09:29	0°♄		morning set	10585 Jun 20 03:12	26°♂42'11	
evening max el	10582 Dec 22 16:49	23°♄52'49	45°53'40		10585 Jun 22 18:17	0°♄	
	10582 Dec 29 05:51	0°♄			10585 Jul 16 16:37	0°♂	
greatest brilliancy	10583 Jan 30 21:10	22°♄22'05	-4.8m				
retrograde	10583 Feb 09 17:34	24°♄08'44		superior conj	10585 Jul 29 18:33	16°♂21'43	-0°30'02
evening set	10583 Feb 24 07:27	19°♄58'08		minimum elong	10585 Jul 30 01:41	16°♂44'02	0°30'05
asc. node	10583 Feb 24 15:48	19°♄46'49		max. Earth dist.	10585 Aug 01 16:55	20°♂01'30	1.71832 AU
inferior conj	10583 Mar 02 15:34	16°♄13'01	1°30'37		10585 Aug 09 16:39	0°♄	
minimum elong	10583 Mar 02 12:08	16°♄18'21	1°29'43	asc. node	10585 Aug 11 07:56	2°♄02'29	
min. Earth dist.	10583 Mar 02 22:33	16°♄02'12	0.27690 AU		10585 Sep 02 19:11	0°♂	
morning rise	10583 Mar 08 16:24	12°♄37'10		evening rise	10585 Sep 06 14:48	4°♂44'17	
direct	10583 Mar 23 16:32	8°♄10'37			10585 Sep 27 00:50	0°♂	
greatest brilliancy	10583 Apr 03 05:38	10°♄16'04	-4.9m		10585 Oct 21 10:50	0°♄	
	10583 May 01 18:57	0°♄			10585 Nov 15 03:09	0°♄	
morning max el	10583 May 13 02:36	10°♄52'19	46°52'32	desc. node	10585 Dec 01 02:23	19°♄11'15	
	10583 May 31 04:57	0°♄			10585 Dec 10 04:02	0°♄	
desc. node	10583 Jun 16 13:25	18°♄25'46			10586 Jan 04 16:15	0°♄	
	10583 Jun 26 12:34	0°♂			10586 Jan 30 21:57	0°♄	
	10583 Jul 21 18:02	0°♄			10586 Feb 27 18:06	0°♄	
	10583 Aug 15 12:33	0°♂		evening max el	10586 Mar 04 20:40	5°♄08'14	46°29'26
	10583 Sep 09 02:36	0°♄		asc. node	10586 Mar 24 02:18	22°♄36'19	
	10583 Oct 03 14:32	0°♂			10586 Apr 03 07:51	0°♂	
asc. node	10583 Oct 07 08:30	4°♂35'55		greatest brilliancy	10586 Apr 14 05:20	5°♂26'36	-4.9m
	10583 Oct 28 00:46	0°♂		retrograde	10586 Apr 23 20:31	7°♂11'19	
morning set	10583 Nov 13 06:58	20°♂00'50		evening set	10586 May 11 19:55	1°♂02'51	
	10583 Nov 21 09:28	0°♄			10586 May 13 13:08	30°♄	
	10583 Dec 15 17:14	0°♄		inferior conj	10586 May 14 12:52	29°♄23'23	9°09'13
				minimum elong	10586 May 14 09:54	29°♄27'58	9°08'40
superior conj	10583 Dec 19 21:29	5°♄09'11	1°15'37	min. Earth dist.	10586 May 14 14:32	29°♄20'48	0.27220 AU
minimum elong	10583 Dec 20 05:37	5°♄34'17	1°15'57	morning rise	10586 May 16 23:51	27°♄52'47	
max. Earth dist.	10583 Dec 19 17:41	4°♄57'27	1.73199 AU	direct	10586 Jun 04 06:02	21°♄32'32	
	10584 Jan 09 00:48	0°♄		greatest brilliancy	10586 Jun 14 00:08	23°♄19'56	-4.9m
evening rise	10584 Jan 26 11:17	21°♄30'43			10586 Jun 26 16:34	0°♂	
desc. node	10584 Jan 27 00:38	22°♄11'53		desc. node	10586 Jul 14 00:41	13°♂59'11	
	10584 Feb 02 08:21	0°♄		morning max el	10586 Jul 24 14:45	24°♂09'12	46°49'47
	10584 Feb 26 15:29	0°♄			10586 Jul 30 08:30	0°♄	
	10584 Mar 21 22:01	0°♄			10586 Aug 26 20:59	0°♂	
	10584 Apr 15 05:10	0°♂			10586 Sep 21 21:16	0°♄	
	10584 May 09 16:11	0°♄			10586 Oct 17 06:09	0°♂	
asc. node	10584 May 18 21:35	11°♄12'27		asc. node	10586 Nov 03 21:30	21°♂08'26	
	10584 Jun 03 12:45	0°♂			10586 Nov 11 05:51	0°♂	
	10584 Jun 29 05:08	0°♄			10586 Dec 05 22:44	0°♄	
	10584 Jul 26 19:20	0°♂			10586 Dec 30 10:33	0°♄	
evening max el	10584 Jul 30 04:45	3°♂25'20	46°28'49	morning set	10587 Jan 20 22:43	26°♄29'29	
	10584 Aug 31 13:56	0°♂			10587 Jan 23 18:55	0°♄	
greatest brilliancy	10584 Sep 07 01:04	3°♂04'39	-4.8m		10587 Feb 17 00:46	0°♄	
desc. node	10584 Sep 07 20:13	3°♂22'37		desc. node	10587 Feb 23 13:35	8°♄06'25	
retrograde	10584 Sep 18 03:46	5°♂20'00		max. Earth dist.	10587 Feb 25 03:30	10°♄04'07	1.72410 AU
evening set	10584 Oct 04 09:34	0°♂13'31					
	10584 Oct 04 18:53	30°♄		superior conj	10587 Feb 28 02:57	13°♄45'56	-0°11'03
min. Earth dist.	10584 Oct 08 16:56	27°♂36'50	0.28547 AU	minimum elong	10587 Feb 28 00:21	13°♄37'51	0°10'44
inferior conj	10584 Oct 09 12:35	27°♂06'09	-6°49'16	behind sun begin	10587 Feb 27 05:57	12°♄40'42	

behind sun end	10587 Feb 28 18:45	14° Υ 35'00		greatest brilliancy	10589 Aug 26 19:46	7° Ω 48'25	-4.8m
	10587 Mar 13 04:17	0° Υ			10589 Sep 28 00:51	0° Π	
	10587 Apr 06 05:29	0° Υ		morning max el	10589 Oct 05 08:24	6° Π 53'00	46°05'36
evening rise	10587 Apr 08 07:51	2° Υ 37'18			10589 Oct 27 19:42	0° Ω	
	10587 Apr 30 05:09	0° Π			10589 Nov 23 18:11	0° Π	
	10587 May 24 05:12	0° Ω		asc. node	10589 Dec 01 10:04	8° Π 49'01	
asc. node	10587 Jun 16 08:57	28° Ω 47'56			10589 Dec 19 12:13	0° Υ	
	10587 Jun 17 08:14	0° Ω			10590 Jan 13 14:05	0° Ω	
	10587 Jul 11 17:21	0° Π			10590 Feb 07 05:52	0° \approx	
	10587 Aug 05 12:55	0° Ω			10590 Mar 03 15:03	0° Υ	
	10587 Aug 31 03:17	0° Π		desc. node	10590 Mar 23 02:52	24° Υ 09'56	
	10587 Sep 27 08:49	0° Υ			10590 Mar 27 19:25	0° Υ	
desc. node	10587 Oct 06 06:38	9° Υ 06'06		morning set	10590 Apr 02 21:28	7° Υ 34'51	
evening max el	10587 Oct 09 23:22	12° Υ 43'56	45°53'15		10590 Apr 20 19:59	0° Υ	
	10587 Oct 29 15:30	0° Ω		max. Earth dist.	10590 May 11 22:24	26° Υ 28'05	1.71357 AU
greatest brilliancy	10587 Nov 18 03:29	11° Ω 16'34	-4.7m				
retrograde	10587 Nov 28 00:17	13° Ω 03'03		superior conj	10590 May 13 06:49	28° Υ 09'53	-1°26'46
evening set	10587 Dec 15 16:48	7° Ω 10'09		minimum elong	10590 May 13 03:15	27° Υ 58'41	1°27'11
inferior conj	10587 Dec 19 12:02	4° Ω 49'12	-7°41'45		10590 May 14 17:53	0° Π	
minimum elong	10587 Dec 19 20:31	4° Ω 35'52	7°40'02		10590 Jun 07 14:52	0° Ω	
min. Earth dist.	10587 Dec 19 23:41	4° Ω 30'52	0.28953 AU	evening rise	10590 Jun 22 17:32	18° Ω 57'59	
morning rise	10587 Dec 24 00:01	2° Ω 02'46			10590 Jul 01 12:58	0° Ω	
	10587 Dec 27 17:11	30° Υ 47'31		asc. node	10590 Jul 13 21:08	15° Ω 25'10	
direct	10588 Jan 09 22:20	26° Υ 32'09			10590 Jul 25 14:04	0° Π	
greatest brilliancy	10588 Jan 20 20:50	28° Υ 42'34	-4.8m		10590 Aug 18 19:49	0° Ω	
	10588 Jan 23 22:08	0° Ω			10590 Sep 12 08:26	0° Π	
asc. node	10588 Jan 27 07:01	1° Ω 42'39			10590 Oct 07 07:51	0° Υ	
morning max el	10588 Feb 28 11:25	27° Ω 47'43	46°08'36		10590 Nov 02 00:59	0° Ω	
	10588 Mar 01 16:35	0° \approx		desc. node	10590 Nov 02 17:10	0° Ω 46'12	
	10588 Mar 29 14:42	0° Υ			10590 Nov 29 01:54	0° \approx	
	10588 Apr 24 11:03	0° Υ		evening max el	10590 Dec 20 08:30	21° \approx 41'35	45°52'53
desc. node	10588 May 18 03:03	28° Υ 27'31			10590 Dec 29 08:11	0° Υ	
	10588 May 19 09:28	0° Υ		greatest brilliancy	10591 Jan 28 11:26	20° Υ 05'58	-4.8m
	10588 Jun 12 20:23	0° Π		retrograde	10591 Feb 07 07:34	21° Υ 51'53	
	10588 Jul 07 01:33	0° Ω		evening set	10591 Feb 21 22:00	17° Υ 41'14	
	10588 Jul 31 04:45	0° Ω		asc. node	10591 Feb 23 17:52	16° Υ 39'50	
	10588 Aug 24 08:07	0° Π		inferior conj	10591 Feb 28 05:59	13° Υ 55'49	1°08'13
morning set	10588 Sep 01 03:27	9° Π 41'24		minimum elong	10591 Feb 28 03:23	13° Υ 59'51	1°07'36
asc. node	10588 Sep 07 21:08	18° Π 02'59		min. Earth dist.	10591 Feb 28 13:36	13° Υ 44'00	0.27726 AU
	10588 Sep 17 12:26	0° Ω		morning rise	10591 Mar 06 08:21	10° Υ 17'30	
				direct	10591 Mar 21 07:45	5° Υ 53'02	
superior conj	10588 Oct 09 02:54	26° Ω 45'29	1°06'25	greatest brilliancy	10591 Mar 31 20:58	7° Υ 58'26	-4.8m
minimum elong	10588 Oct 08 17:15	26° Ω 15'35	1°06'19		10591 May 01 21:52	0° Υ	
max. Earth dist.	10588 Oct 10 17:25	28° Ω 44'38	1.72899 AU	morning max el	10591 May 10 17:00	8° Υ 32'46	46°51'24
	10588 Oct 11 17:47	0° Π			10591 May 30 22:04	0° Υ	
	10588 Nov 05 00:33	0° Υ		desc. node	10591 Jun 15 15:16	17° Υ 48'00	
evening rise	10588 Nov 14 20:24	12° Υ 06'44			10591 Jun 26 02:39	0° Π	
	10588 Nov 29 09:32	0° Ω			10591 Jul 21 06:40	0° Ω	
	10588 Dec 23 21:29	0° \approx			10591 Aug 15 00:20	0° Ω	
desc. node	10588 Dec 28 14:07	5° \approx 43'43			10591 Sep 08 13:50	0° Π	
	10589 Jan 17 12:37	0° Υ			10591 Oct 03 01:23	0° Ω	
	10589 Feb 11 06:52	0° Υ		asc. node	10591 Oct 06 10:21	4° Ω 08'27	
	10589 Mar 08 05:42	0° Υ			10591 Oct 27 11:22	0° Π	
	10589 Apr 02 14:32	0° Π		morning set	10591 Nov 11 00:04	17° Π 53'26	
asc. node	10589 Apr 20 12:39	20° Π 34'11			10591 Nov 20 19:54	0° Υ	
	10589 Apr 29 00:05	0° Ω			10591 Dec 15 03:36	0° Ω	
evening max el	10589 May 16 21:02	18° Ω 52'43	46°53'42				
	10589 May 28 11:02	0° Ω		superior conj	10591 Dec 17 14:46	3° Ω 02'28	1°17'08
greatest brilliancy	10589 Jun 26 01:42	19° Ω 39'36	-4.9m	minimum elong	10591 Dec 17 22:28	3° Ω 26'12	1°17'30
retrograde	10589 Jul 06 08:03	21° Ω 38'46		max. Earth dist.	10591 Dec 17 12:21	2° Ω 55'03	1.73202 AU
evening set	10589 Jul 21 14:57	17° Ω 03'03			10592 Jan 08 11:12	0° \approx	
inferior conj	10589 Jul 27 03:31	13° Ω 46'41	3°36'02	evening rise	10592 Jan 24 03:11	19° \approx 19'19	
minimum elong	10589 Jul 27 11:20	13° Ω 34'43	3°33'16	desc. node	10592 Jan 26 02:36	21° \approx 45'34	
min. Earth dist.	10589 Jul 27 02:40	13° Ω 47'59	0.27194 AU		10592 Feb 01 18:54	0° Υ	
morning rise	10589 Aug 02 08:01	10° Ω 09'14			10592 Feb 26 02:16	0° Υ	
desc. node	10589 Aug 10 11:40	6° Ω 49'14			10592 Mar 21 09:07	0° Υ	
direct	10589 Aug 16 21:34	5° Ω 59'08			10592 Apr 14 16:43	0° Π	

	10592 May 09 04:23	0°☾		10594 Oct 16 18:13	0°♊
asc. node	10592 May 17 23:24	10°☾40'05	asc. node	10594 Nov 02 23:22	20°♊39'22
	10592 Jun 03 02:01	0°♊		10594 Nov 10 17:11	0°♊
	10592 Jun 28 20:30	0°♊		10594 Dec 05 09:37	0°♊
	10592 Jul 26 16:17	0°♊		10594 Dec 29 21:13	0°♊
evening max el	10592 Jul 27 19:46	1°♊08'54 46°30'10	morning set	10595 Jan 18 15:05	24°♊19'10
	10592 Sep 02 15:28	0°♊		10595 Jan 23 05:30	0°♊
greatest brilliancy	10592 Sep 04 17:16	0°♊51'57 -4.8m		10595 Feb 16 11:21	0°♊
desc. node	10592 Sep 06 22:15	1°♊38'46	desc. node	10595 Feb 22 15:33	7°♊39'40
retrograde	10592 Sep 15 19:04	3°♊06'37	max. Earth dist.	10595 Feb 22 21:07	7°♊56'57 1.72450 AU
	10592 Sep 28 07:29	30°♊			
evening set	10592 Oct 01 21:58	28°♊05'21	superior conj	10595 Feb 25 17:10	11°♊28'10 -0°07'28
min. Earth dist.	10592 Oct 06 08:14	25°♊24'30 0.28493 AU	minimum elong	10595 Feb 25 15:26	11°♊22'46 0°07'10
inferior conj	10592 Oct 07 03:58	24°♊53'38 -6°36'08	behind sun begin	10595 Feb 24 17:23	10°♊14'19
minimum elong	10592 Oct 06 17:49	25°♊09'31 6°33'56	behind sun end	10595 Feb 26 13:29	12°♊31'14
morning rise	10592 Oct 11 14:08	22°♊11'48		10595 Mar 12 14:54	0°♊
direct	10592 Oct 28 10:50	16°♊50'10	evening rise	10595 Apr 05 21:01	0°♊15'06
greatest brilliancy	10592 Nov 07 01:01	18°♊30'18 -4.7m		10595 Apr 05 16:11	0°♊
	10592 Nov 27 00:43	0°♊		10595 Apr 29 16:00	0°♊
morning max el	10592 Dec 16 04:34	16°♊43'04 45°41'37		10595 May 23 16:16	0°♊
asc. node	10592 Dec 28 21:53	29°♊27'51	asc. node	10595 Jun 15 10:57	28°♊18'58
	10592 Dec 29 10:16	0°♊		10595 Jun 16 19:36	0°♊
	10593 Jan 25 19:48	0°♊		10595 Jul 11 05:11	0°♊
	10593 Feb 20 14:10	0°♊		10595 Aug 05 01:36	0°♊
	10593 Mar 17 13:25	0°♊		10595 Aug 30 17:36	0°♊
	10593 Apr 11 01:35	0°♊		10595 Sep 27 03:10	0°♊
desc. node	10593 Apr 19 16:00	10°♊37'35	desc. node	10595 Oct 05 08:33	8°♊19'28
	10593 May 05 06:32	0°♊	evening max el	10595 Oct 07 14:34	10°♊31'30 45°54'12
	10593 May 29 06:51	0°♊		10595 Oct 30 05:37	0°♊
morning set	10593 Jun 17 14:52	24°♊14'33	greatest brilliancy	10595 Nov 15 17:43	9°♊05'08 -4.7m
	10593 Jun 22 05:01	0°♊	retrograde	10595 Nov 25 16:32	10°♊53'24
	10593 Jul 16 03:17	0°♊	evening set	10595 Dec 13 11:09	4°♊56'12
			inferior conj	10595 Dec 17 04:05	2°♊38'49 -7°50'43
superior conj	10593 Jul 27 07:21	13°♊58'33 -0°33'32	minimum elong	10595 Dec 17 12:06	2°♊26'12 7°49'09
minimum elong	10593 Jul 27 15:14	14°♊23'11 0°33'36	min. Earth dist.	10595 Dec 17 14:39	2°♊22'12 0.28980 AU
max. Earth dist.	10593 Jul 30 03:28	17°♊31'21 1.71791 AU		10595 Dec 21 11:06	30°♊
	10593 Aug 09 03:16	0°♊	morning rise	10595 Dec 21 12:54	29°♊57'20
asc. node	10593 Aug 10 09:55	1°♊35'34	direct	10596 Jan 07 14:40	24°♊21'33
	10593 Sep 02 05:47	0°♊	greatest brilliancy	10596 Jan 18 12:22	26°♊31'34 -4.8m
evening rise	10593 Sep 04 05:53	2°♊29'14		10596 Jan 25 19:11	0°♊
	10593 Sep 26 11:30	0°♊	asc. node	10596 Jan 26 09:07	0°♊19'59
	10593 Oct 20 21:42	0°♊	morning max el	10596 Feb 26 03:56	25°♊36'42 46°07'07
	10593 Nov 14 14:25	0°♊		10596 Mar 01 13:06	0°♊
desc. node	10593 Nov 30 04:17	18°♊42'08		10596 Mar 29 05:51	0°♊
	10593 Dec 09 15:59	0°♊		10596 Apr 24 00:11	0°♊
	10594 Jan 04 05:23	0°♊	desc. node	10596 May 17 04:54	27°♊56'04
	10594 Jan 30 13:21	0°♊		10596 May 18 21:37	0°♊
	10594 Feb 27 15:12	0°♊		10596 Jun 12 07:57	0°♊
evening max el	10594 Mar 02 09:15	2°♊44'47 46°28'07		10596 Jul 06 12:46	0°♊
asc. node	10594 Mar 23 04:15	21°♊26'28		10596 Jul 30 15:43	0°♊
	10594 Apr 04 22:57	0°♊		10596 Aug 23 18:55	0°♊
greatest brilliancy	10594 Apr 11 18:24	3°♊03'04 -4.9m	morning set	10596 Aug 29 18:23	7°♊25'23
retrograde	10594 Apr 21 09:11	4°♊47'53	asc. node	10596 Sep 06 22:58	17°♊35'26
	10594 May 07 01:34	30°♊		10596 Sep 16 23:06	0°♊
evening set	10594 May 09 05:55	28°♊43'47			
inferior conj	10594 May 12 02:01	26°♊59'44 9°05'25	superior conj	10596 Oct 06 19:16	24°♊34'42 1°04'14
minimum elong	10594 May 11 22:05	27°♊05'48 9°04'47	minimum elong	10596 Oct 06 09:29	24°♊04'24 1°04'04
min. Earth dist.	10594 May 12 03:32	26°♊57'24 0.27232 AU	max. Earth dist.	10596 Oct 08 11:42	26°♊39'49 1.72874 AU
morning rise	10594 May 14 14:14	25°♊27'20		10596 Oct 11 04:24	0°♊
direct	10594 Jun 01 18:45	19°♊08'13		10596 Nov 04 11:12	0°♊
greatest brilliancy	10594 Jun 11 14:05	20°♊56'37 -4.9m	evening rise	10596 Nov 12 13:20	9°♊58'17
	10594 Jun 27 15:48	0°♊		10596 Nov 28 20:17	0°♊
desc. node	10594 Jul 13 02:47	13°♊00'23		10596 Dec 23 08:28	0°♊
morning max el	10594 Jul 22 04:11	21°♊45'58 46°50'51	desc. node	10596 Dec 27 16:06	5°♊16'04
	10594 Jul 30 04:51	0°♊		10597 Jan 16 23:59	0°♊
	10594 Aug 26 12:22	0°♊		10597 Feb 10 18:52	0°♊
	10594 Sep 21 10:31	0°♊		10597 Mar 07 18:37	0°♊

	10597 Apr 02 05:03	0°♂		morning set	10599 Nov 08 17:07	15°♂44'52	
asc. node	10597 Apr 19 14:33	19°♂53'26			10599 Nov 20 06:39	0°♂	
	10597 Apr 28 17:59	0°♂			10599 Dec 14 14:20	0°♂	
evening max el	10597 May 14 11:59	16°♂33'12	46°53'46				
	10597 May 28 16:38	0°♂		superior conj	10599 Dec 15 07:59	0°♂54'25	1°18'32
greatest brilliancy	10597 Jun 23 15:55	17°♂17'20	-4.9m	minimum elong	10599 Dec 15 15:12	1°♂16'41	1°18'56
retrograde	10597 Jul 03 22:18	19°♂16'06		max. Earth dist.	10599 Dec 15 05:15	0°♂45'58	1.73211 AU
evening set	10597 Jul 19 07:02	14°♂37'04			10600 Jan 07 22:01	0°♂	
inferior conj	10597 Jul 24 16:49	11°♂24'21	3°57'43	evening rise	10600 Jan 21 18:52	17°♂06'00	
minimum elong	10597 Jul 25 01:17	11°♂11'24	3°54'49	desc. node	10600 Jan 25 04:32	21°♂17'48	
min. Earth dist.	10597 Jul 24 16:28	11°♂24'53	0.27175 AU		10600 Feb 01 05:53	0°♂	
morning rise	10597 Jul 30 19:53	7°♂49'03			10600 Feb 25 13:28	0°♂	
desc. node	10597 Aug 09 13:36	4°♂06'24			10600 Mar 21 20:38	0°♂	
direct	10597 Aug 14 11:19	3°♂37'08			10600 Apr 15 04:39	0°♂	
greatest brilliancy	10597 Aug 24 08:25	5°♂25'59	-4.8m		10600 May 09 17:00	0°♂	
	10597 Sep 28 02:50	0°♂		asc. node	10600 May 18 01:25	10°♂07'05	
morning max el	10597 Oct 02 23:20	4°♂37'16	46°06'57		10600 Jun 03 15:48	0°♂	
	10597 Oct 27 12:29	0°♂			10600 Jun 29 12:32	0°♂	
	10597 Nov 23 07:58	0°♂		evening max el	10600 Jul 26 10:03	28°♂49'19	46°31'30
asc. node	10597 Nov 30 12:02	8°♂16'19			10600 Jul 27 14:29	0°♂	
	10597 Dec 19 00:36	0°♂		greatest brilliancy	10600 Sep 03 09:29	28°♂37'59	-4.8m
	10598 Jan 13 01:42	0°♂		desc. node	10600 Sep 07 00:10	29°♂49'50	
	10598 Feb 06 17:04	0°♂			10600 Sep 07 15:41	0°♂	
	10598 Mar 03 02:02	0°♂		retrograde	10600 Sep 14 10:18	0°♂52'15	
desc. node	10598 Mar 22 04:38	23°♂41'26			10600 Sep 21 00:21	30°♂	
	10598 Mar 27 06:19	0°♂		evening set	10600 Sep 30 10:26	25°♂55'46	
morning set	10598 Mar 31 09:31	5°♂08'55		min. Earth dist.	10600 Oct 04 23:46	23°♂10'47	0.28439 AU
	10598 Apr 20 06:52	0°♂		inferior conj	10600 Oct 05 19:23	22°♂40'10	-6°22'20
max. Earth dist.	10598 May 09 05:26	23°♂45'12	1.71372 AU	minimum elong	10600 Oct 05 09:08	22°♂56'09	6°20'01
				morning rise	10600 Oct 10 08:17	19°♂54'14	
superior conj	10598 May 10 18:14	25°♂40'46	-1°26'07	direct	10600 Oct 27 01:12	14°♂37'25	
minimum elong	10598 May 10 13:41	25°♂26'27	1°26'30	greatest brilliancy	10600 Nov 05 16:05	16°♂17'40	-4.7m
	10598 May 14 04:47	0°♂			10600 Nov 28 11:40	0°♂	
	10598 Jun 07 01:47	0°♂		morning max el	10600 Dec 14 18:22	14°♂26'50	45°41'37
evening rise	10598 Jun 20 04:42	16°♂28'12		asc. node	10600 Dec 28 23:59	28°♂45'37	
	10598 Jun 30 23:56	0°♂			10600 Dec 30 04:23	0°♂	
asc. node	10598 Jul 12 23:07	14°♂57'01			10601 Jan 26 10:08	0°♂	
	10598 Jul 25 01:08	0°♂			10601 Feb 21 02:57	0°♂	
	10598 Aug 18 07:05	0°♂			10601 Mar 18 01:27	0°♂	
	10598 Sep 11 20:06	0°♂			10601 Apr 11 13:11	0°♂	
desc. node	10598 Oct 06 20:16	0°♂		desc. node	10601 Apr 19 17:58	10°♂08'03	
	10598 Nov 01 19:03	0°♂11'54			10601 May 05 17:52	0°♂	
	10598 Nov 01 14:53	0°♂			10601 May 29 18:01	0°♂	
	10598 Nov 28 19:06	0°♂		morning set	10601 Jun 16 02:21	21°♂45'15	
evening max el	10598 Dec 17 23:33	19°♂27'36	45°52'04		10601 Jun 22 16:04	0°♂	
	10598 Dec 29 12:47	0°♂			10601 Jul 16 14:18	0°♂	
greatest brilliancy	10599 Jan 26 02:19	17°♂49'24	-4.8m				
retrograde	10599 Feb 04 21:07	19°♂34'05		superior conj	10601 Jul 25 20:07	11°♂34'05	-0°37'00
evening set	10599 Feb 19 12:45	15°♂23'03		minimum elong	10601 Jul 26 04:41	12°♂00'53	0°37'03
asc. node	10599 Feb 22 19:46	13°♂29'42		max. Earth dist.	10601 Jul 28 12:27	14°♂55'11	1.71754 AU
inferior conj	10599 Feb 25 20:27	11°♂37'50	0°45'54		10601 Aug 09 14:15	0°♂	
minimum elong	10599 Feb 25 18:42	11°♂40'34	0°45'32	asc. node	10601 Aug 10 11:45	1°♂07'05	
min. Earth dist.	10599 Feb 26 04:59	11°♂24'33	0.27760 AU	evening rise	10601 Sep 02 20:56	0°♂13'00	
morning rise	10599 Mar 04 00:08	7°♂57'12			10601 Sep 02 16:45	0°♂	
direct	10599 Mar 18 22:28	3°♂34'37			10601 Sep 26 22:31	0°♂	
greatest brilliancy	10599 Mar 29 12:48	5°♂40'33	-4.8m		10601 Oct 21 08:55	0°♂	
	10599 May 01 23:39	0°♂			10601 Nov 15 02:03	0°♂	
morning max el	10599 May 08 06:22	6°♂09'46	46°50'15	desc. node	10601 Nov 30 06:21	18°♂12'27	
	10599 May 30 15:07	0°♂			10601 Dec 10 04:21	0°♂	
desc. node	10599 Jun 14 17:19	17°♂10'14			10602 Jan 04 19:01	0°♂	
	10599 Jun 25 16:54	0°♂					
	10599 Jul 20 19:32	0°♂					
	10599 Aug 14 12:24	0°♂					
	10599 Sep 08 01:21	0°♂					
	10599 Oct 02 12:31	0°♂					
asc. node	10599 Oct 05 12:12	3°♂40'05					
	10599 Oct 26 22:15	0°♂					