

conjunction	7101 Nov 28 04:53	8°♊19'15	0°24'34			7107 Feb 03 13:36	0°♌	
minimum elong	7101 Nov 28 05:36	8°♊20'23	0°24'38	retrograde		7107 Mar 05 10:20	5°♌13'33	
	7102 Jan 01 05:59	0°♊				7107 Apr 02 05:01	30°♌♎	
morning rise	7102 Jan 10 23:37	6°♊14'05		min. Earth dist.		7107 Apr 10 10:40	26°♎52'50	0.63375 AU
desc. node	7102 Jan 15 01:14	8°♊50'39		opposition		7107 Apr 14 13:12	25°♎14'34	4°14'24
	7102 Feb 16 19:07	0°♋		greatest brilliancy		7107 Apr 13 22:51	25°♎28'54	-1.5m
	7102 Apr 03 11:17	0°♋		direct		7107 May 23 05:24	16°♎11'25	
	7102 May 18 06:16	0°♌				7107 Jul 17 13:56	0°♌	
	7102 Jul 01 09:41	0°♌		desc. node		7107 Sep 06 22:23	25°♌14'17	
	7102 Aug 14 18:07	0°♍				7107 Sep 15 13:20	0°♊	
	7102 Oct 01 16:44	0°♍				7107 Nov 05 09:11	0°♊	
retrograde	7102 Dec 02 21:43	21°♍16'28				7107 Dec 22 00:48	0°♋	
asc. node	7102 Dec 10 18:39	20°♍49'58				7108 Feb 03 13:45	0°♋	
min. Earth dist.	7102 Dec 29 01:47	16°♍51'22	0.39432 AU	evening set		7108 Feb 06 03:45	1°♋50'25	
opposition	7103 Jan 04 18:14	14°♍50'31	1°45'22	max. Earth dist.		7108 Feb 20 15:04	12°♋15'56	2.44584 AU
greatest brilliancy	7103 Jan 04 06:00	14°♍59'46	-2.9m			7108 Mar 15 15:29	0°♌	
direct	7103 Feb 03 22:01	9°♍23'10						
	7103 Apr 10 12:45	0°♎		conjunction		7108 Apr 01 07:41	12°♌36'01	-1°03'57
	7103 Jun 03 01:27	0°♎		minimum elong		7108 Apr 01 08:52	12°♌38'16	1°03'59
	7103 Jul 22 16:24	0°♎				7108 Apr 23 22:25	0°♌	
	7103 Sep 09 12:02	0°♏				7108 Jun 01 05:09	0°♏	
	7103 Oct 27 19:07	0°♊		morning rise		7108 Jun 05 17:56	3°♏34'25	
evening set	7103 Nov 19 02:20	14°♊01'53				7108 Jul 09 08:10	0°♍	
desc. node	7103 Dec 02 23:57	22°♊51'35		asc. node		7108 Aug 01 15:03	18°♍05'42	
	7103 Dec 14 03:49	0°♋				7108 Aug 17 04:31	0°♎	
max. Earth dist.	7103 Dec 18 18:42	2°♋58'20	2.65204 AU			7108 Sep 26 15:35	0°♎	
						7108 Nov 08 17:30	0°♎	
conjunction	7104 Jan 02 21:18	12°♋45'16	-0°16'19			7108 Dec 26 02:59	0°♏	
minimum elong	7104 Jan 02 20:48	12°♋44'27	0°16'14			7109 Feb 23 07:09	0°♊	
	7104 Jan 29 02:36	0°♋		retrograde		7109 Apr 07 23:07	9°♊39'36	
morning rise	7104 Feb 16 18:06	12°♋29'30		opposition		7109 May 18 08:16	29°♏53'45	2°13'32
	7104 Mar 13 09:19	0°♋		greatest brilliancy		7109 May 18 08:04	29°♏53'56	-1.3m
	7104 Apr 24 23:47	0°♌		min. Earth dist.		7109 May 18 01:29	0°♊00'30	0.67946 AU
	7104 Jun 05 03:07	0°♌				7109 May 18 01:59	30°♌♏	
	7104 Jul 15 06:06	0°♏		direct		7109 Jun 28 04:18	20°♏07'08	
	7104 Aug 24 04:44	0°♍		desc. node		7109 Jul 24 21:37	23°♏54'07	
	7104 Oct 04 11:03	0°♎				7109 Aug 12 16:35	0°♊	
asc. node	7104 Oct 27 17:12	15°♎46'44				7109 Oct 12 23:41	0°♋	
	7104 Nov 19 18:34	0°♎				7109 Dec 01 00:31	0°♋	
retrograde	7105 Jan 25 00:37	23°♎06'56				7110 Jan 14 03:40	0°♋	
min. Earth dist.	7105 Feb 24 13:18	16°♎41'21	0.52627 AU			7110 Feb 24 04:04	0°♌	
greatest brilliancy	7105 Mar 02 19:11	14°♎19'40	-2.0m	evening set		7110 Apr 04 05:20	0°♌01'25	
opposition	7105 Mar 04 04:18	13°♎48'10	5°05'41			7110 Apr 04 04:36	0°♌	
direct	7105 Apr 08 05:14	6°♎05'42				7110 May 12 05:12	0°♏	
	7105 Jun 23 00:01	0°♎						
	7105 Aug 17 15:46	0°♏		conjunction		7110 Jun 12 03:54	24°♏28'15	-0°05'19
	7105 Oct 07 12:30	0°♊		minimum elong		7110 Jun 12 04:28	24°♏29'22	0°05'23
desc. node	7105 Oct 19 23:13	7°♊35'34		behind sun begin		7110 Jun 10 23:30	23°♏32'23	
	7105 Nov 24 19:25	0°♋		behind sun end		7110 Jun 13 09:26	25°♏26'19	
evening set	7105 Dec 25 02:15	19°♋36'05		asc. node		7110 Jun 19 12:58	0°♍15'54	
	7106 Jan 09 18:07	0°♋				7110 Jun 19 04:51	0°♍	
max. Earth dist.	7106 Jan 13 02:16	2°♋14'27	2.57066 AU			7110 Jul 28 00:41	0°♎	
				max. Earth dist.		7110 Aug 01 12:24	3°♎24'02	2.39054 AU
conjunction	7106 Feb 10 08:04	21°♋33'00	-0°53'46	morning rise		7110 Aug 21 16:37	18°♎28'31	
minimum elong	7106 Feb 10 06:47	21°♋30'44	0°53'43			7110 Sep 06 10:51	0°♎	
	7106 Feb 22 09:47	0°♋				7110 Oct 19 02:11	0°♎	
morning rise	7106 Apr 02 00:00	27°♋48'10				7110 Dec 03 12:07	0°♏	
	7106 Apr 04 23:36	0°♌				7111 Jan 21 20:53	0°♊	
	7106 May 14 21:42	0°♌				7111 Mar 22 00:16	0°♋	
	7106 Jun 22 18:29	0°♏		retrograde		7111 May 13 00:04	12°♋33'50	
	7106 Jul 31 08:53	0°♍		desc. node		7111 Jun 11 20:47	7°♋00'58	
	7106 Sep 08 16:09	0°♎		opposition		7111 Jun 21 10:24	3°♋25'39	-0°20'23
asc. node	7106 Sep 14 16:50	4°♎30'05		greatest brilliancy		7111 Jun 21 11:22	3°♋24'43	-1.4m
	7106 Oct 19 22:56	0°♎		min. Earth dist.		7111 Jun 24 22:27	2°♋03'27	0.65943 AU
	7106 Dec 04 12:51	0°♎				7111 Jun 30 07:52	30°♌♊	

direct	7111 Aug 01 23:42	23° ♁ 22'27		conjunction	7116 Nov 14 06:29	25° ♁ 12'17	0°38'39
	7111 Sep 06 11:32	0° ♁		minimum elong	7116 Nov 14 07:30	25° ♁ 13'54	0°38'43
	7111 Nov 07 05:54	0° \approx		max. Earth dist.	7116 Nov 17 08:04	27° ♁ 09'15	2.67679 AU
	7111 Dec 23 21:44	0° ♁			7116 Nov 21 19:32	0° ♁	
	7112 Feb 03 15:34	0° ♁		morning rise	7116 Dec 28 11:16	23° ♁ 16'27	
	7112 Mar 13 20:57	0° ♁			7117 Jan 08 01:20	0° ♁	
	7112 Apr 20 23:52	0° ♁		desc. node	7117 Jan 31 15:20	15° ♁ 01'14	
asc. node	7112 May 06 12:52	12° ♁ 16'08			7117 Feb 24 01:37	0° \approx	
	7112 May 29 03:23	0° ♁			7117 Apr 11 16:58	0° ♁	
evening set	7112 Jun 16 05:17	14° ♁ 00'04			7117 May 28 04:04	0° ♁	
	7112 Jul 07 05:43	0° ♁			7117 Jul 14 05:49	0° ♁	
	7112 Aug 16 23:40	0° ♁			7117 Sep 03 07:30	0° ♁	
				retrograde	7117 Nov 04 06:43	19° ♁ 49'34	
conjunction	7112 Aug 19 07:58	1° ♁ 41'01	0°58'35	min. Earth dist.	7117 Dec 02 12:17	15° ♁ 12'17	0.36820 AU
minimum elong	7112 Aug 19 06:00	1° ♁ 37'30	0°58'33	opposition	7117 Dec 04 13:51	14° ♁ 39'03	-1°44'34
max. Earth dist.	7112 Sep 26 07:41	28° ♁ 17'43	2.52745 AU	greatest brilliancy	7117 Dec 04 12:54	14° ♁ 39'41	-3.0m
	7112 Sep 28 19:30	0° ♁		asc. node	7117 Dec 27 12:03	10° ♁ 02'30	
morning rise	7112 Oct 14 10:34	10° ♁ 34'47		direct	7118 Jan 02 21:47	9° ♁ 46'20	
	7112 Nov 12 20:27	0° ♁			7118 Mar 06 21:32	0° ♁	
	7112 Dec 30 04:13	0° ♁			7118 Apr 27 04:41	0° ♁	
	7113 Feb 18 09:38	0° ♁			7118 Jun 13 19:10	0° ♁	
	7113 Apr 16 07:26	0° \approx			7118 Jul 31 04:00	0° ♁	
desc. node	7113 Apr 28 19:49	5° \approx 31'28			7118 Sep 16 21:11	0° ♁	
retrograde	7113 Jun 21 23:08	18° \approx 51'42			7118 Nov 03 15:46	0° ♁	
opposition	7113 Jul 29 00:25	10° \approx 48'10	-3°21'24	evening set	7118 Nov 05 03:37	0° ♁ 56'30	
greatest brilliancy	7113 Jul 29 19:42	10° \approx 30'09	-1.7m	max. Earth dist.	7118 Dec 09 16:26	22° ♁ 50'14	2.66963 AU
min. Earth dist.	7113 Aug 05 01:22	8° \approx 10'27	0.57503 AU				
direct	7113 Sep 07 08:54	1° \approx 10'08		conjunction	7118 Dec 19 21:29	29° ♁ 22'11	-0°00'10
	7113 Nov 25 09:05	0° ♁		minimum elong	7118 Dec 19 21:31	29° ♁ 22'14	0°00'06
	7114 Jan 09 21:48	0° ♁		behind sun begin	7118 Dec 19 03:35	28° ♁ 53'30	
	7114 Feb 19 12:10	0° ♁		behind sun end	7118 Dec 20 15:28	29° ♁ 50'59	
asc. node	7114 Mar 24 12:05	25° ♁ 25'05		desc. node	7118 Dec 19 13:45	29° ♁ 09'49	
	7114 Mar 30 09:45	0° ♁			7118 Dec 20 21:05	0° ♁	
	7114 May 08 05:24	0° ♁		morning rise	7119 Feb 01 21:56	27° ♁ 58'06	
	7114 Jun 17 00:42	0° ♁			7119 Feb 04 23:52	0° \approx	
	7114 Jul 28 11:57	0° ♁			7119 Mar 21 17:09	0° ♁	
evening set	7114 Aug 15 23:26	12° ♁ 55'46			7119 May 03 23:33	0° ♁	
	7114 Sep 09 22:28	0° ♁			7119 Jun 14 22:58	0° ♁	
					7119 Jul 26 01:30	0° ♁	
conjunction	7114 Oct 07 09:43	18° ♁ 19'19	1°04'14		7119 Sep 05 07:26	0° ♁	
minimum elong	7114 Oct 07 10:30	18° ♁ 20'37	1°04'16		7119 Oct 19 04:19	0° ♁	
max. Earth dist.	7114 Oct 25 10:02	0° ♁ 06'52	2.62877 AU	asc. node	7119 Nov 14 11:31	15° ♁ 31'20	
	7114 Oct 25 05:49	0° ♁			7119 Dec 19 21:21	0° ♁	
morning rise	7114 Nov 24 01:20	19° ♁ 12'00		retrograde	7120 Jan 07 12:34	2° ♁ 24'21	
	7114 Dec 11 01:22	0° ♁			7120 Jan 25 13:00	30° ♁	
	7115 Jan 28 00:49	0° ♁		min. Earth dist.	7120 Feb 04 15:37	26° ♁ 54'03	0.47200 AU
desc. node	7115 Mar 16 17:36	29° ♁ 03'29		greatest brilliancy	7120 Feb 11 15:18	24° ♁ 25'05	-2.3m
	7115 Mar 18 07:25	0° \approx		opposition	7120 Feb 13 01:43	23° ♁ 54'14	4°37'52
	7115 May 09 08:45	0° ♁		direct	7120 Mar 17 07:18	16° ♁ 59'32	
	7115 Jul 12 18:08	0° ♁			7120 May 07 11:20	0° ♁	
retrograde	7115 Aug 17 03:31	6° ♁ 34'43			7120 Jul 05 11:52	0° ♁	
opposition	7115 Sep 18 22:41	0° ♁ 24'04	-6°01'57		7120 Aug 26 07:24	0° ♁	
	7115 Sep 20 04:41	30° ♁			7120 Oct 14 21:20	0° ♁	
greatest brilliancy	7115 Sep 20 18:07	29° ♁ 49'12	-2.4m	desc. node	7120 Nov 05 12:46	13° ♁ 26'03	
min. Earth dist.	7115 Sep 27 08:53	27° ♁ 42'55	0.44279 AU		7120 Dec 01 17:14	0° ♁	
direct	7115 Oct 24 14:22	22° ♁ 54'41		evening set	7120 Dec 10 08:24	5° ♁ 32'37	
	7115 Nov 27 00:05	0° ♁		max. Earth dist.	7121 Jan 02 05:36	20° ♁ 27'16	2.60847 AU
	7116 Jan 20 06:20	0° ♁			7121 Jan 16 14:45	0° \approx	
asc. node	7116 Feb 09 11:11	13° ♁ 46'21					
	7116 Mar 03 05:58	0° ♁		conjunction	7121 Jan 25 04:18	5° \approx 44'58	-0°40'43
	7116 Apr 13 10:53	0° ♁		minimum elong	7121 Jan 25 03:08	5° \approx 43'00	0°40'39
	7116 May 25 02:13	0° ♁			7121 Mar 01 11:13	0° ♁	
	7116 Jul 07 02:00	0° ♁		morning rise	7121 Mar 13 18:50	8° ♁ 40'58	
	7116 Aug 20 17:28	0° ♁			7121 Apr 12 09:05	0° ♁	
evening set	7116 Sep 28 14:30	25° ♁ 21'10			7121 May 22 16:34	0° ♁	
	7116 Oct 05 19:39	0° ♁			7121 Jun 30 22:30	0° ♁	
					7121 Aug 08 21:28	0° ♁	

	7121 Sep 17 15:14	0°♏			7127 Apr 29 17:29	0°♐	
asc. node	7121 Oct 01 09:02	10°♏03'03		evening set	7127 May 19 05:55	15°♐26'27	
	7121 Oct 29 19:29	0°♐		asc. node	7127 May 24 04:26	19°♐20'04	
	7121 Dec 17 13:50	0°♑			7127 Jun 06 18:24	0°♑	
retrograde	7122 Feb 19 00:49	20°♑22'52			7127 Jul 15 17:07	0°♒	
min. Earth dist.	7122 Mar 25 01:45	12°♑42'10	0.59833 AU				
opposition	7122 Mar 30 15:34	10°♑30'00	4°47'14	conjunction	7127 Jul 27 01:55	8°♒32'51	0°41'17
greatest brilliancy	7122 Mar 29 17:20	10°♑51'59	-1.6m	minimum elong	7127 Jul 26 23:05	8°♒27'32	0°41'11
direct	7122 May 07 01:53	1°♑52'53			7127 Aug 25 06:47	0°♐	
	7122 Jul 31 15:40	0°♒		max. Earth dist.	7127 Sep 11 20:28	12°♐32'37	2.47556 AU
desc. node	7122 Sep 23 12:05	29°♒31'50		morning rise	7127 Sep 26 12:51	22°♐49'04	
	7122 Sep 24 07:26	0°♑			7127 Oct 06 23:06	0°♑	
	7122 Nov 12 20:25	0°♒			7127 Nov 21 00:40	0°♒	
	7122 Dec 29 03:19	0°♑			7128 Jan 07 20:04	0°♑	
evening set	7123 Jan 19 05:03	14°♑17'51			7128 Feb 28 22:11	0°♒	
max. Earth dist.	7123 Feb 02 17:46	24°♑23'40	2.49836 AU		7128 May 07 20:20	0°♑	
	7123 Feb 10 16:30	0°♑		desc. node	7128 May 15 09:56	1°♑50'26	
				retrograde	7128 Jun 04 20:17	4°♑07'35	
conjunction	7123 Mar 11 08:47	20°♑42'23	-1°05'55		7128 Jun 30 12:35	30°♑30	
minimum elong	7123 Mar 11 08:22	20°♑41'37	1°05'54	opposition	7128 Jul 13 00:45	25°♑34'14	-2°08'28
	7123 Mar 23 22:10	0°♑		greatest brilliancy	7128 Jul 13 10:33	25°♑24'52	-1.6m
	7123 May 02 10:08	0°♑		min. Earth dist.	7128 Jul 18 17:59	23°♑22'57	0.61561 AU
morning rise	7123 May 08 20:57	4°♑59'30		direct	7128 Aug 23 03:35	15°♑38'41	
	7123 Jun 09 21:17	0°♐			7128 Oct 15 14:09	0°♑	
	7123 Jul 18 03:16	0°♑			7128 Dec 07 08:20	0°♑	
asc. node	7123 Aug 19 07:47	24°♑52'09			7129 Jan 19 14:37	0°♑	
	7123 Aug 26 01:48	0°♒			7129 Feb 28 10:01	0°♑	
	7123 Oct 05 16:38	0°♐			7129 Apr 07 21:00	0°♐	
	7123 Nov 18 06:50	0°♑		asc. node	7129 Apr 10 04:36	1°♐49'01	
	7124 Jan 06 17:10	0°♒			7129 May 16 07:45	0°♑	
retrograde	7124 Mar 25 17:37	26°♒54'06			7129 Jun 24 18:12	0°♒	
min. Earth dist.	7124 May 03 09:24	17°♒42'18	0.66935 AU	evening set	7129 Jul 25 20:05	22°♒48'33	
opposition	7124 May 05 04:09	16°♒59'35	3°05'03		7129 Aug 04 20:47	0°♐	
greatest brilliancy	7124 May 04 23:50	17°♒03'54	-1.3m		7129 Sep 16 23:47	0°♑	
direct	7124 Jun 14 08:09	7°♒26'47					
desc. node	7124 Aug 10 11:57	21°♒58'24		conjunction	7129 Sep 20 02:04	2°♑05'57	1°07'15
	7124 Aug 28 00:51	0°♑		minimum elong	7129 Sep 20 02:06	2°♑06'00	1°07'15
	7124 Oct 21 23:33	0°♒		max. Earth dist.	7129 Oct 15 05:33	18°♑55'12	2.59524 AU
	7124 Dec 08 18:33	0°♑			7129 Nov 01 02:50	0°♒	
	7125 Jan 21 14:04	0°♑		morning rise	7129 Nov 09 06:10	5°♒17'04	
	7125 Mar 03 14:04	0°♑			7129 Dec 18 00:20	0°♑	
evening set	7125 Mar 10 02:16	4°♑54'40			7130 Feb 04 13:53	0°♒	
	7125 Apr 11 16:32	0°♑			7130 Mar 27 14:22	0°♑	
max. Earth dist.	7125 Apr 18 11:55	5°♑19'25	2.37195 AU	desc. node	7130 Apr 02 07:57	3°♑13'18	
					7130 May 24 17:25	0°♑	
conjunction	7125 May 12 22:56	24°♑35'36	-0°36'47	retrograde	7130 Jul 23 10:09	15°♑57'33	
minimum elong	7125 May 13 02:04	24°♑41'48	0°36'49	opposition	7130 Aug 27 04:27	8°♑55'17	-5°12'53
	7125 May 19 18:55	0°♐		greatest brilliancy	7130 Aug 28 17:21	8°♑23'03	-2.1m
	7125 Jun 26 18:59	0°♑		min. Earth dist.	7130 Sep 04 17:08	5°♑57'44	0.49752 AU
asc. node	7125 Jul 06 06:40	7°♑25'06		direct	7130 Oct 04 06:24	0°♑17'04	
morning rise	7125 Jul 24 14:41	21°♑37'03			7130 Dec 20 18:30	0°♑	
	7125 Aug 04 13:50	0°♒			7131 Feb 02 20:03	0°♑	
	7125 Sep 13 22:36	0°♐		asc. node	7131 Feb 26 05:11	17°♑12'44	
	7125 Oct 26 14:45	0°♑			7131 Mar 15 06:16	0°♐	
	7125 Dec 11 11:01	0°♒			7131 Apr 24 02:13	0°♑	
	7126 Jan 31 16:06	0°♑			7131 Jun 03 17:48	0°♒	
retrograde	7126 Apr 29 00:11	29°♑50'00			7131 Jul 15 22:56	0°♐	
opposition	7126 Jun 07 22:59	20°♑24'18	0°42'38		7131 Aug 29 00:01	0°♑	
greatest brilliancy	7126 Jun 08 00:30	20°♑22'48	-1.3m	evening set	7131 Sep 13 12:01	10°♑17'05	
min. Earth dist.	7126 Jun 09 23:36	19°♑36'19	0.67517 AU		7131 Oct 13 16:45	0°♒	
desc. node	7126 Jun 28 11:31	13°♑12'36					
direct	7126 Jul 19 09:57	10°♑24'07		conjunction	7131 Oct 31 20:43	11°♒41'53	0°50'49
	7126 Sep 24 12:40	0°♒		minimum elong	7131 Oct 31 21:52	11°♒43'44	0°50'53
	7126 Nov 17 00:08	0°♑		max. Earth dist.	7131 Nov 09 08:46	17°♒08'32	2.66451 AU
	7127 Jan 01 06:40	0°♑			7131 Nov 29 13:06	0°♑	
	7127 Feb 11 14:35	0°♑		morning rise	7131 Dec 15 23:32	10°♑25'26	
	7127 Mar 22 16:34	0°♑			7132 Jan 15 23:07	0°♒	

desc. node	7132 Feb 18 05:29	20°♄57'19	min. Earth dist.	7137 Mar 07 08:51	27°♏01'22	0.55389 AU
	7132 Mar 03 14:45	0°♊	greatest brilliancy	7137 Mar 13 01:58	24°♏48'56	-1.9m
	7132 Apr 20 14:57	0°♋	opposition	7137 Mar 14 07:55	24°♏19'56	5°05'40
	7132 Jun 08 21:05	0°♌	direct	7137 Apr 19 06:33	16°♏15'49	
	7132 Aug 02 05:13	0°♍		7137 Jun 12 12:22	0°♎	
retrograde	7132 Oct 02 13:38	18°♍11'41		7137 Aug 11 09:37	0°♏	
opposition	7132 Nov 01 15:56	13°♍12'06 -4°54'45		7137 Oct 02 08:18	0°♐	
greatest brilliancy	7132 Nov 02 12:06	12°♍58'24 -2.9m	desc. node	7137 Oct 10 02:17	4°♐39'45	
min. Earth dist.	7132 Nov 05 07:51	12°♍12'32 0.37682 AU		7137 Nov 20 00:52	0°♑	
direct	7132 Dec 02 11:24	7°♍49'57	evening set	7138 Jan 02 21:11	28°♑30'49	
asc. node	7133 Jan 13 04:21	18°♍16'56		7138 Jan 05 02:32	0°♒	
	7133 Feb 05 02:27	0°♎	max. Earth dist.	7138 Jan 19 23:16	10°♒02'25	2.54639 AU
	7133 Mar 25 06:57	0°♏		7138 Feb 17 17:33	0°♋	
	7133 May 09 04:26	0°♐				
	7133 Jun 23 04:23	0°♑	conjunction	7138 Feb 20 06:27	1°♋47'41 -0°59'47	
	7133 Aug 08 03:24	0°♒	minimum elong	7138 Feb 20 05:17	1°♋45'36 0°59'45	
	7133 Sep 24 01:24	0°♓		7138 Mar 31 04:33	0°♌	
evening set	7133 Oct 21 23:02	17°♓40'30	morning rise	7138 Apr 14 06:45	10°♌30'24	
	7133 Nov 10 10:33	0°♍		7138 May 09 22:58	0°♍	
max. Earth dist.	7133 Dec 01 01:02	13°♍03'53 2.67893 AU		7138 Jun 17 16:10	0°♎	
				7138 Jul 26 03:00	0°♏	
conjunction	7133 Dec 06 02:43	16°♍17'13 0°15'40		7138 Sep 03 06:01	0°♐	
minimum elong	7133 Dec 06 03:11	16°♍17'58 0°15'45	asc. node	7138 Sep 05 00:17	1°♐19'30	
behind sun begin	7133 Dec 06 00:24	16°♍13'32		7138 Oct 14 04:39	0°♑	
behind sun end	7133 Dec 06 05:59	16°♍22'24		7138 Nov 27 17:51	0°♒	
	7133 Dec 27 14:28	0°♓		7139 Jan 20 16:39	0°♓	
desc. node	7134 Jan 05 03:27	5°♓28'39	retrograde	7139 Mar 13 07:19	13°♓37'52	
morning rise	7134 Jan 18 20:16	14°♓18'26	min. Earth dist.	7139 Apr 19 07:27	4°♓57'54	0.64922 AU
	7134 Feb 11 23:39	0°♊	opposition	7139 Apr 22 14:28	3°♓38'59	3°50'59
	7134 Mar 29 06:56	0°♋	greatest brilliancy	7139 Apr 22 04:07	3°♓49'20 -1.4m	
	7134 May 12 10:54	0°♌		7139 May 02 03:21	30°♒♎	
	7134 Jun 24 15:31	0°♍	direct	7139 May 31 21:08	24°♎24'05	
	7134 Aug 06 09:44	0°♎		7139 Jul 03 22:39	0°♏	
	7134 Sep 19 11:34	0°♏	desc. node	7139 Aug 28 01:32	23°♏37'33	
	7134 Nov 12 10:06	0°♐		7139 Sep 09 04:29	0°♐	
asc. node	7134 Dec 01 03:20	5°♐57'59		7139 Oct 31 04:26	0°♑	
retrograde	7134 Dec 16 23:14	7°♐43'47		7139 Dec 17 05:12	0°♒	
min. Earth dist.	7135 Jan 12 06:25	3°♐03'11 0.41899 AU		7140 Jan 29 20:50	0°♋	
greatest brilliancy	7135 Jan 19 05:58	0°♐48'32 -2.7m	evening set	7140 Feb 17 05:45	13°♋13'22	
opposition	7135 Jan 20 06:24	0°♐28'46 3°11'44	max. Earth dist.	7140 Mar 04 22:13	25°♋30'58	2.41650 AU
	7135 Jan 21 18:12	30°♒♏		7140 Mar 10 22:13	0°♌	
direct	7135 Feb 20 11:19	24°♏30'36				
	7135 Mar 23 06:34	0°♐	conjunction	7140 Apr 15 06:11	26°♌58'43 -0°57'52	
	7135 May 25 23:20	0°♑	minimum elong	7140 Apr 15 08:30	27°♌03'13 0°57'54	
	7135 Jul 16 15:40	0°♒		7140 Apr 19 03:33	0°♍	
	7135 Sep 04 07:39	0°♓		7140 May 27 08:29	0°♎	
	7135 Oct 23 00:16	0°♍	morning rise	7140 Jun 23 10:28	21°♎22'42	
desc. node	7135 Nov 23 02:49	19°♍32'26		7140 Jul 04 09:47	0°♏	
evening set	7135 Nov 27 03:13	22°♍05'28	asc. node	7140 Jul 22 22:40	14°♏26'55	
	7135 Dec 09 12:30	0°♓		7140 Aug 12 04:38	0°♐	
max. Earth dist.	7135 Dec 24 06:22	9°♓30'29 2.63862 AU		7140 Sep 21 13:34	0°♑	
				7140 Nov 03 09:35	0°♒	
conjunction	7136 Jan 11 03:47	21°♓11'49 -0°25'38		7140 Dec 20 00:12	0°♓	
minimum elong	7136 Jan 11 03:00	21°♓10'32 0°25'33		7141 Feb 12 18:26	0°♍	
	7136 Jan 24 10:51	0°♊	retrograde	7141 Apr 15 13:26	17°♍20'05	
morning rise	7136 Feb 25 18:34	21°♊50'59	opposition	7141 May 25 20:19	7°♍40'27 1°41'11	
	7136 Mar 08 14:00	0°♋	greatest brilliancy	7141 May 25 21:26	7°♍39'21 -1.3m	
	7136 Apr 19 22:29	0°♌	min. Earth dist.	7141 May 26 09:02	7°♍27'50 0.68085 AU	
	7136 May 30 18:21	0°♍		7141 Jun 17 09:42	30°♒♓	
	7136 Jul 09 12:58	0°♎	direct	7141 Jul 05 23:30	27°♓48'02	
	7136 Aug 18 01:00	0°♏	desc. node	7141 Jul 15 00:56	28°♓16'39	
	7136 Sep 27 13:11	0°♐		7141 Jul 25 22:52	0°♐	
asc. node	7136 Oct 18 02:55	14°♐30'00		7141 Oct 06 09:47	0°♑	
	7136 Nov 10 13:47	0°♑		7141 Nov 25 16:07	0°♒	
	7137 Jan 09 21:15	0°♒		7142 Jan 09 04:20	0°♋	
retrograde	7137 Feb 03 12:52	3°♒55'23		7142 Feb 19 07:36	0°♌	
	7137 Feb 26 22:25	30°♒♏		7142 Mar 30 08:49	0°♍	

evening set	7142 Apr 19 18:08	16°♄02'10		desc. node	7147 Mar 06 19:50	26°♄27'15	
	7142 May 07 09:26	0°♄			7147 Mar 12 14:56	0°♄	
asc. node	7142 Jun 09 22:26	26°♄30'56			7147 May 01 18:29	0°♄	
	7142 Jun 14 08:56	0°♄			7147 Jun 25 23:59	0°♄	
				retrograde	7147 Sep 02 02:28	20°♄29'44	
conjunction	7142 Jun 29 01:29	11°♄27'40 0°13'30		opposition	7147 Oct 03 16:37	14°♄48'46 -6°06'15	
minimum elong	7142 Jun 29 00:05	11°♄24'57 0°13'25		greatest brilliancy	7147 Oct 05 09:38	14°♄17'40 -2.6m	
behind sun begin	7142 Jun 28 07:25	10°♄52'36		min. Earth dist.	7147 Oct 11 04:33	12°♄33'07 0.41488 AU	
behind sun end	7142 Jun 29 16:46	11°♄57'17		direct	7147 Nov 06 17:26	8°♄05'40	
	7142 Jul 23 04:47	0°♄			7148 Jan 08 20:16	0°♄	
max. Earth dist.	7142 Aug 20 20:15	21°♄24'25 2.41958 AU		asc. node	7148 Jan 30 21:07	13°♄35'35	
	7142 Sep 01 14:58	0°♄			7148 Feb 24 06:33	0°♄	
morning rise	7142 Sep 04 16:31	2°♄12'56			7148 Apr 06 19:43	0°♄	
	7142 Oct 14 04:56	0°♄			7148 May 19 05:33	0°♄	
	7142 Nov 28 09:40	0°♄			7148 Jul 01 18:02	0°♄	
	7143 Jan 15 23:56	0°♄			7148 Aug 15 18:07	0°♄	
	7143 Mar 12 09:44	0°♄			7148 Oct 01 02:00	0°♄	
retrograde	7143 May 21 08:53	20°♄31'46		evening set	7148 Oct 07 07:18	3°♄58'55	
desc. node	7143 Jun 01 23:51	19°♄40'32			7148 Nov 17 04:22	0°♄	
opposition	7143 Jun 29 10:05	11°♄34'40 -0°59'07		conjunction	7148 Nov 22 07:00	3°♄14'37 0°30'35	
greatest brilliancy	7143 Jun 29 13:23	11°♄31'27 -1.4m		minimum elong	7148 Nov 22 07:51	3°♄15'58 0°30'40	
min. Earth dist.	7143 Jul 03 17:09	9°♄54'30 0.64652 AU		max. Earth dist.	7148 Nov 22 10:03	3°♄19'27 2.67989 AU	
direct	7143 Aug 09 21:40	1°♄32'18			7149 Jan 03 08:53	0°♄	
	7143 Oct 31 00:38	0°♄			7149 Jan 05 04:46	1°♄09'59	
	7143 Dec 18 03:43	0°♄		morning rise	7149 Jan 21 18:17	11°♄45'15	
	7144 Jan 29 08:13	0°♄		desc. node	7149 Jan 21 18:17	11°♄45'15	
	7144 Mar 08 17:53	0°♄			7149 Feb 19 02:59	0°♄	
	7144 Apr 15 23:16	0°♄			7149 Apr 06 04:51	0°♄	
asc. node	7144 Apr 26 21:32	8°♄36'49			7149 May 21 15:47	0°♄	
	7144 May 24 04:42	0°♄			7149 Jul 05 20:41	0°♄	
evening set	7144 Jul 01 09:55	29°♄16'37			7149 Aug 21 03:51	0°♄	
	7144 Jul 02 08:59	0°♄			7149 Oct 15 07:44	0°♄	
	7144 Aug 12 04:57	0°♄		retrograde	7149 Nov 20 23:39	8°♄20'31	
				asc. node	7149 Dec 17 20:24	3°♄54'27	
conjunction	7144 Aug 31 13:35	13°♄43'57 1°04'03		min. Earth dist.	7149 Dec 17 15:17	3°♄58'03 0.37900 AU	
minimum elong	7144 Aug 31 12:24	13°♄41'53 1°04'01		opposition	7149 Dec 22 14:39	2°♄33'06 0°21'14	
	7144 Sep 24 01:56	0°♄		greatest brilliancy	7149 Dec 22 12:42	2°♄34'30 -3.0m	
max. Earth dist.	7144 Oct 03 18:39	6°♄34'56 2.55347 AU			7150 Jan 01 04:21	30°♄	
morning rise	7144 Oct 24 06:01	20°♄15'45		direct	7150 Jan 21 04:54	27°♄26'27	
	7144 Nov 08 02:12	0°♄			7150 Feb 10 08:36	0°♄	
	7144 Dec 25 04:12	0°♄			7150 Apr 17 21:57	0°♄	
	7145 Feb 12 14:57	0°♄			7150 Jun 07 03:33	0°♄	
	7145 Apr 07 13:41	0°♄			7150 Jul 25 14:55	0°♄	
desc. node	7145 Apr 18 21:47	5°♄40'23			7150 Sep 11 21:40	0°♄	
retrograde	7145 Jul 02 13:07	28°♄23'14			7150 Oct 29 22:59	0°♄	
opposition	7145 Aug 07 21:06	20°♄38'55 -4°03'35		evening set	7150 Nov 13 03:05	8°♄55'13	
greatest brilliancy	7145 Aug 08 22:42	20°♄15'25 -1.9m		desc. node	7150 Dec 09 16:57	25°♄47'46	
min. Earth dist.	7145 Aug 15 13:37	17°♄50'05 0.54929 AU		max. Earth dist.	7150 Dec 14 21:24	29°♄06'58 2.66096 AU	
direct	7145 Sep 16 14:24	11°♄16'38			7150 Dec 16 06:29	0°♄	
	7145 Nov 15 17:46	0°♄					
	7146 Jan 03 02:38	0°♄		conjunction	7150 Dec 27 20:14	7°♄27'02 -0°09'38	
	7146 Feb 13 12:12	0°♄		minimum elong	7150 Dec 27 19:56	7°♄26'34 0°09'32	
asc. node	7146 Mar 14 20:35	22°♄21'10		behind sun begin	7150 Dec 27 04:44	7°♄02'01	
	7146 Mar 24 19:08	0°♄		behind sun end	7150 Dec 28 11:08	7°♄51'06	
	7146 May 02 21:04	0°♄			7151 Jan 31 07:48	0°♄	
	7146 Jun 11 21:38	0°♄		morning rise	7151 Feb 10 06:04	6°♄36'03	
	7146 Jul 23 13:43	0°♄			7151 Mar 16 19:49	0°♄	
evening set	7146 Aug 26 20:46	23°♄42'28			7151 Apr 28 17:46	0°♄	
	7146 Sep 05 04:01	0°♄			7151 Jun 09 05:47	0°♄	
					7151 Jul 19 18:19	0°♄	
conjunction	7146 Oct 16 14:43	27°♄25'34 1°00'20			7151 Aug 29 03:51	0°♄	
minimum elong	7146 Oct 16 15:44	27°♄27'14 1°00'22			7151 Oct 10 05:07	0°♄	
	7146 Oct 20 13:40	0°♄		asc. node	7151 Nov 04 18:37	16°♄38'47	
max. Earth dist.	7146 Oct 31 00:15	6°♄45'46 2.64382 AU			7151 Nov 28 08:46	0°♄	
morning rise	7146 Dec 02 04:36	27°♄21'44		retrograde	7152 Jan 18 08:19	15°♄04'15	
	7146 Dec 06 08:21	0°♄		min. Earth dist.	7152 Feb 16 19:44	9°♄02'40 0.50254 AU	
	7147 Jan 23 01:29	0°♄		greatest brilliancy	7152 Feb 23 10:14	6°♄36'04 -2.1m	

opposition	7152 Feb 24 21:04	6° \cap 03'39	4°59'42	conjunction	7157 May 29 19:08	11° Π 45'50	-0°19'40
	7152 Mar 16 04:55	30° κ Ω		minimum elong	7157 May 29 21:11	11° Π 49'54	0°19'43
direct	7152 Mar 30 02:48	28° Ω 41'09			7157 Jun 21 22:12	0° Θ	
	7152 Apr 13 19:12	0° \cap		asc. node	7157 Jun 26 14:22	3° Θ 39'47	
	7152 Jun 27 20:24	0° $\underline{\Omega}$		max. Earth dist.	7157 Jul 02 12:45	8° Θ 17'50	2.37137 AU
	7152 Aug 20 14:46	0° \mathbb{M}			7157 Jul 30 16:41	0° Ω	
	7152 Oct 09 21:42	0° \nearrow		morning rise	7157 Aug 09 22:43	7° Ω 45'19	
desc. node	7152 Oct 26 16:03	10° \nearrow 18'27			7157 Sep 09 01:00	0° \cap	
	7152 Nov 27 00:24	0° Ξ			7157 Oct 21 14:52	0° $\underline{\Omega}$	
evening set	7152 Dec 18 16:06	13° Ξ 57'13			7157 Dec 06 02:45	0° \mathbb{M}	
max. Earth dist.	7153 Jan 08 08:57	27° Ξ 35'13	2.58860 AU		7158 Jan 25 00:29	0° \nearrow	
	7153 Jan 11 23:44	0° \approx			7158 Mar 29 03:00	0° Ξ	
				retrograde	7158 May 06 22:34	7° Ξ 34'20	
conjunction	7153 Feb 03 04:36	15° \approx 01'38	-0°48'37		7158 Jun 11 05:52	30° κ \nearrow	
minimum elong	7153 Feb 03 03:19	14° \approx 59'25	0°48'34	opposition	7158 Jun 15 15:02	28° \nearrow 17'45	0°06'13
	7153 Feb 24 18:39	0° \mathcal{H}		greatest brilliancy	7158 Jun 15 15:25	28° \nearrow 17'23	-1.4m
morning rise	7153 Mar 24 07:59	19° \mathcal{H} 38'30		min. Earth dist.	7158 Jun 18 10:46	27° \nearrow 11'13	0.66775 AU
	7153 Apr 07 13:05	0° Υ		desc. node	7158 Jun 18 14:02	27° \nearrow 08'01	
	7153 May 17 15:54	0° \mathcal{B}		direct	7158 Jul 27 04:10	18° \nearrow 15'25	
	7153 Jun 25 16:56	0° Π			7158 Sep 14 11:11	0° Ξ	
	7153 Aug 03 10:32	0° Θ			7158 Nov 10 20:28	0° \approx	
	7153 Sep 11 20:46	0° Ω			7158 Dec 26 22:30	0° \mathcal{H}	
asc. node	7153 Sep 21 18:17	7° Ω 20'14			7159 Feb 06 13:09	0° Υ	
	7153 Oct 23 09:30	0° \cap			7159 Mar 17 17:35	0° \mathcal{B}	
	7153 Dec 08 20:15	0° $\underline{\Omega}$		greatest brilliancy	7159 Mar 22 10:00	3° \mathcal{B} 39'40	1.2m
retrograde	7154 Feb 27 08:50	29° $\underline{\Omega}$ 31'17			7159 Apr 24 19:42	0° Π	
min. Earth dist.	7154 Apr 03 12:44	21° $\underline{\Omega}$ 28'03	0.61912 AU	asc. node	7159 May 14 13:54	15° Π 37'02	
opposition	7154 Apr 08 07:46	19° $\underline{\Omega}$ 33'47	4°29'42		7159 Jun 01 21:32	0° Θ	
greatest brilliancy	7154 Apr 07 13:58	19° $\underline{\Omega}$ 51'28	-1.5m	evening set	7159 Jun 04 18:37	2° Θ 14'51	
direct	7154 May 16 11:40	10° $\underline{\Omega}$ 41'32			7159 Jul 10 21:10	0° Ω	
	7154 Jul 23 04:07	0° \mathbb{M}					
desc. node	7154 Sep 13 15:12	27° \mathbb{M} 13'10		conjunction	7159 Aug 10 05:22	22° Ω 32'47	0°52'28
	7154 Sep 18 13:13	0° \nearrow		minimum elong	7159 Aug 10 02:51	22° Ω 28'11	0°52'24
	7154 Nov 07 20:15	0° Ξ			7159 Aug 20 11:57	0° \cap	
	7154 Dec 24 09:26	0° \approx		max. Earth dist.	7159 Sep 21 05:58	22° \cap 27'20	2.50495 AU
evening set	7155 Jan 29 03:56	24° \approx 28'42			7159 Oct 02 04:41	0° $\underline{\Omega}$	
	7155 Feb 05 23:48	0° \mathcal{H}		morning rise	7159 Oct 07 13:51	3° $\underline{\Omega}$ 40'23	
max. Earth dist.	7155 Feb 12 05:40	4° \mathcal{H} 26'45	2.46966 AU		7159 Nov 16 04:18	0° \mathbb{M}	
	7155 Mar 19 04:25	0° Υ			7160 Jan 02 14:53	0° \nearrow	
					7160 Feb 22 10:46	0° Ξ	
conjunction	7155 Mar 23 08:34	3° Υ 07'23	-1°06'02		7160 Apr 22 08:33	0° \approx	
minimum elong	7155 Mar 23 08:58	3° Υ 08'08	1°06'02	desc. node	7160 May 05 12:47	5° \approx 01'59	
	7155 Apr 27 14:16	0° \mathcal{B}		retrograde	7160 Jun 14 08:32	12° \approx 51'22	
morning rise	7155 May 24 14:28	21° \mathcal{B} 04'00		opposition	7160 Jul 21 23:00	4° \approx 33'37	-2°50'22
	7155 Jun 04 23:19	0° Π		greatest brilliancy	7160 Jul 22 13:50	4° \approx 19'36	-1.7m
	7155 Jul 13 03:24	0° Θ		min. Earth dist.	7160 Jul 28 09:58	2° \approx 07'12	0.59425 AU
asc. node	7155 Aug 09 16:53	21° Θ 22'39			7160 Aug 03 07:57	30° κ Ξ	
	7155 Aug 20 23:47	0° Ω		direct	7160 Aug 31 16:55	24° Ξ 46'27	
	7155 Sep 30 10:56	0° \cap			7160 Sep 30 18:51	0° \approx	
	7155 Nov 12 15:10	0° $\underline{\Omega}$			7160 Nov 30 04:25	0° \mathcal{H}	
	7155 Dec 30 14:24	0° \mathbb{M}			7161 Jan 13 15:27	0° Υ	
	7156 Mar 04 01:14	0° \nearrow			7161 Feb 22 21:17	0° \mathcal{B}	
retrograde	7156 Apr 02 07:50	4° \nearrow 44'54		asc. node	7161 Mar 31 13:50	28° \mathcal{B} 26'10	
	7156 Apr 29 07:21	30° κ \mathbb{M}			7161 Apr 02 13:58	0° Π	
opposition	7156 May 12 18:23	24° \mathbb{M} 54'36	2°35'28		7161 May 11 04:59	0° Θ	
min. Earth dist.	7156 May 11 19:03	25° \mathbb{M} 17'52	0.67618 AU		7161 Jun 19 19:05	0° Ω	
greatest brilliancy	7156 May 12 16:35	24° \mathbb{M} 56'23	-1.3m		7161 Jul 31 01:05	0° \cap	
direct	7156 Jun 22 08:19	15° \mathbb{M} 13'47		evening set	7161 Aug 07 03:35	5° \cap 01'39	
desc. node	7156 Jul 31 14:42	22° \mathbb{M} 49'51			7161 Sep 12 06:42	0° $\underline{\Omega}$	
	7156 Aug 18 23:26	0° \nearrow					
	7156 Oct 16 03:20	0° Ξ		conjunction	7161 Sep 30 03:31	12° $\underline{\Omega}$ 00'37	1°06'08
	7156 Dec 03 16:28	0° \approx		minimum elong	7161 Sep 30 04:03	12° $\underline{\Omega}$ 01'30	1°06'08
	7157 Jan 16 17:43	0° \mathcal{H}		max. Earth dist.	7161 Oct 21 07:31	25° $\underline{\Omega}$ 59'28	2.61473 AU
	7157 Feb 26 19:07	0° Υ			7161 Oct 27 10:52	0° \mathbb{M}	
evening set	7157 Mar 23 19:40	19° Υ 04'41		morning rise	7161 Nov 17 19:38	13° \mathbb{M} 48'44	
	7157 Apr 06 21:06	0° \mathcal{B}			7161 Dec 13 06:02	0° \nearrow	
	7157 May 14 22:42	0° Π			7162 Jan 30 10:21	0° Ξ	

	7162 Mar 21 08:05	0°♊	direct	7167 Mar 07 13:53	8°♏11'02	
desc. node	7162 Mar 23 10:43	1°♊14'01		7167 May 16 04:36	0°♎	
	7162 May 14 07:14	0°♋		7167 Jul 10 04:37	0°♌	
retrograde	7162 Aug 05 19:53	27°♋38'55		7167 Aug 29 23:20	0°♍	
opposition	7162 Sep 08 13:13	21°♋04'28 -5°44'53		7167 Oct 18 03:40	0°♎	
greatest brilliancy	7162 Sep 10 07:08	20°♋29'24 -2.3m	desc. node	7167 Nov 13 05:27	16°♎16'07	
min. Earth dist.	7162 Sep 17 05:26	18°♋11'30 0.46697 AU		7167 Dec 04 20:47	0°♏	
direct	7162 Oct 15 09:59	13°♋01'22	evening set	7167 Dec 05 05:32	0°♏14'00	
	7162 Dec 09 05:34	0°♐	max. Earth dist.	7167 Dec 29 21:43	16°♏11'33 2.62297 AU	
	7163 Jan 26 01:27	0°♑				
asc. node	7163 Feb 16 12:31	15°♑15'00	conjunction	7168 Jan 19 14:56	29°♏52'05 -0°34'36	
	7163 Mar 08 15:54	0°♒	minimum elong	7168 Jan 19 13:54	29°♏50'23 0°34'30	
	7163 Apr 18 03:37	0°♓		7168 Jan 19 19:41	0°♊	
	7163 May 29 06:15	0°♏		7168 Mar 03 19:57	0°♋	
	7163 Jul 10 20:04	0°♎	morning rise	7168 Mar 06 05:09	1°♋39'46	
	7163 Aug 24 03:37	0°♌		7168 Apr 14 23:22	0°♐	
evening set	7163 Sep 22 20:04	19°♌30'42		7168 May 25 12:43	0°♑	
	7163 Oct 09 00:35	0°♍		7168 Jul 04 00:16	0°♒	
				7168 Aug 12 04:19	0°♓	
conjunction	7163 Nov 09 04:08	19°♍58'18 0°43'59		7168 Sep 21 03:50	0°♏	
minimum elong	7163 Nov 09 05:14	20°♍00'03 0°44'02	asc. node	7168 Oct 08 10:54	12°♏29'34	
max. Earth dist.	7163 Nov 14 13:52	23°♍25'02 2.67241 AU		7168 Nov 02 21:06	0°♎	
	7163 Nov 24 22:09	0°♎		7168 Dec 24 02:53	0°♌	
morning rise	7163 Dec 23 17:07	18°♎16'00	retrograde	7169 Feb 12 12:39	14°♌01'36	
	7164 Jan 11 05:30	0°♏	min. Earth dist.	7169 Mar 17 14:47	6°♌41'18 0.57946 AU	
desc. node	7164 Feb 08 08:33	17°♏50'13	opposition	7169 Mar 23 20:23	4°♌14'47 4°57'33	
	7164 Feb 27 12:12	0°♊	greatest brilliancy	7169 Mar 22 18:34	4°♌40'06 -1.7m	
	7164 Apr 14 16:38	0°♋		7169 Apr 04 13:19	30°♋♎	
	7164 Jun 01 04:37	0°♐	direct	7169 Apr 29 15:39	25°♎51'35	
	7164 Jul 20 11:00	0°♑		7169 May 27 06:01	0°♌	
	7164 Sep 18 21:41	0°♒		7169 Aug 04 13:24	0°♍	
retrograde	7164 Oct 21 05:35	6°♒07'59		7169 Sep 26 23:06	0°♎	
opposition	7164 Nov 20 00:50	1°♒11'40 -3°18'08	desc. node	7169 Sep 30 04:39	1°♎54'29	
greatest brilliancy	7164 Nov 20 06:40	1°♒07'50 -3.0m		7169 Nov 15 03:58	0°♏	
min. Earth dist.	7164 Nov 20 15:16	1°♒02'10 0.36753 AU		7169 Dec 31 10:00	0°♊	
	7164 Nov 24 14:28	30°♋♑	evening set	7170 Jan 12 00:23	7°♊48'39	
direct	7164 Dec 19 15:46	26°♑15'04	max. Earth dist.	7170 Jan 27 13:28	18°♊27'45 2.52064 AU	
asc. node	7165 Jan 03 13:00	27°♑42'12		7170 Feb 13 01:15	0°♋	
	7165 Jan 12 22:07	0°♒				
	7165 Mar 15 09:42	0°♓	conjunction	7170 Mar 02 18:59	12°♋40'42 -1°04'07	
	7165 May 01 23:50	0°♏	minimum elong	7170 Mar 02 18:09	12°♋39'11 1°04'06	
	7165 Jun 17 05:20	0°♎		7170 Mar 26 10:28	0°♐	
	7165 Aug 02 20:56	0°♌	morning rise	7170 Apr 27 14:56	24°♐16'34	
	7165 Sep 19 04:40	0°♍		7170 May 05 01:56	0°♑	
evening set	7165 Oct 30 03:07	25°♍48'11		7170 Jun 12 15:57	0°♒	
	7165 Nov 05 18:43	0°♎		7170 Jul 20 23:47	0°♓	
max. Earth dist.	7165 Dec 06 02:40	19°♎13'21 2.67490 AU	asc. node	7170 Aug 26 09:04	28°♓02'14	
				7170 Aug 28 23:12	0°♏	
conjunction	7165 Dec 13 23:54	24°♎14'56 0°06'30		7170 Oct 08 15:28	0°♎	
minimum elong	7165 Dec 14 00:06	24°♎15'15 0°06'35		7170 Nov 21 11:33	0°♌	
behind sun begin	7165 Dec 13 07:02	23°♎48'02		7171 Jan 11 03:25	0°♍	
behind sun end	7165 Dec 14 17:09	24°♎42'28	retrograde	7171 Mar 21 00:48	21°♍48'52	
	7165 Dec 22 23:37	0°♏	min. Earth dist.	7171 Apr 27 23:48	12°♍50'51 0.66160 AU	
desc. node	7165 Dec 26 06:44	2°♏06'54	opposition	7171 Apr 30 11:03	11°♍51'40 3°24'55	
morning rise	7166 Jan 26 19:33	22°♏31'09	greatest brilliancy	7171 Apr 30 04:17	11°♍58'26 -1.4m	
	7166 Feb 07 05:46	0°♊	direct	7171 Jun 09 06:46	2°♍26'21	
	7166 Mar 24 05:34	0°♋	desc. node	7171 Aug 18 04:24	22°♍40'45	
	7166 May 06 21:42	0°♐		7171 Sep 02 02:51	0°♎	
	7166 Jun 18 09:12	0°♑		7171 Oct 25 17:56	0°♏	
	7166 Jul 30 02:57	0°♒		7171 Dec 12 06:30	0°♊	
	7166 Sep 10 06:45	0°♓		7172 Jan 25 01:44	0°♋	
	7166 Oct 26 10:43	0°♏	evening set	7172 Feb 29 05:31	25°♋34'23	
asc. node	7166 Nov 21 13:03	13°♏28'24		7172 Mar 06 03:42	0°♐	
retrograde	7166 Dec 29 14:59	22°♏40'54	max. Earth dist.	7172 Mar 23 11:41	13°♐07'48 2.38939 AU	
min. Earth dist.	7167 Jan 25 19:20	17°♏34'11 0.44751 AU		7172 Apr 14 08:13	0°♑	
greatest brilliancy	7167 Feb 01 21:39	15°♏08'42 -2.5m				
opposition	7167 Feb 03 05:34	14°♏41'09 4°10'19	conjunction	7172 Apr 30 10:02	12°♑34'42 -0°47'30	

minimum elong	7172 Apr 30 13:09	12°♏40'50	0°47'33			7177 Aug 21 16:26	30°♏	
	7172 May 22 12:04	0°♐		min. Earth dist.		7177 Aug 26 17:19	28°♏12'53	0.52145 AU
	7172 Jun 29 12:30	0°♑		direct		7177 Sep 26 09:31	22°♏08'31	
morning rise	7172 Jul 11 04:19	9°♑07'04				7177 Nov 01 16:29	0°♐	
asc. node	7172 Jul 13 08:02	10°♑47'45				7177 Dec 26 10:31	0°♑	
	7172 Aug 07 06:28	0°♒				7178 Feb 07 02:58	0°♑	
	7172 Sep 16 13:51	0°♓		asc. node		7178 Mar 05 06:24	19°♑35'00	
	7172 Oct 29 05:38	0°♐				7178 Mar 18 23:09	0°♐	
	7172 Dec 14 06:15	0°♑				7178 Apr 27 09:37	0°♑	
	7173 Feb 04 11:45	0°♒				7178 Jun 06 16:48	0°♒	
retrograde	7173 Apr 23 05:17	24°♒59'06				7178 Jul 18 14:23	0°♓	
opposition	7173 Jun 02 08:25	15°♒26'37	1°07'20			7178 Aug 31 09:11	0°♐	
greatest brilliancy	7173 Jun 02 10:03	15°♒25'01	-1.3m	evening set		7178 Sep 06 03:25	3°♐51'22	
min. Earth dist.	7173 Jun 03 16:41	14°♒54'41	0.67894 AU			7178 Oct 15 21:36	0°♑	
desc. node	7173 Jul 05 04:16	5°♒56'49						
direct	7173 Jul 13 16:56	5°♒29'27		conjunction		7178 Oct 25 11:18	6°♑11'29	0°55'09
	7173 Sep 29 01:27	0°♑		minimum elong		7178 Oct 25 12:26	6°♑13'19	0°55'11
	7173 Nov 20 01:52	0°♒		max. Earth dist.		7178 Nov 05 12:14	13°♑17'43	2.65637 AU
	7174 Jan 04 01:34	0°♐				7178 Dec 01 16:24	0°♒	
	7174 Feb 14 08:41	0°♑		morning rise		7178 Dec 10 03:53	5°♒22'41	
	7174 Mar 25 10:55	0°♑				7179 Jan 18 05:02	0°♑	
	7174 May 02 11:51	0°♐		desc. node		7179 Feb 24 22:30	23°♑36'22	
evening set	7174 May 06 06:02	2°♐58'38				7179 Mar 07 05:08	0°♒	
asc. node	7174 May 31 05:39	22°♐43'41				7179 Apr 25 00:26	0°♐	
	7174 Jun 09 11:52	0°♑				7179 Jun 15 04:37	0°♑	
						7179 Aug 17 15:01	0°♑	
conjunction	7174 Jul 15 07:18	27°♑41'02	0°30'31	retrograde		7179 Sep 19 07:13	5°♑55'50	
minimum elong	7174 Jul 15 04:42	27°♑36'05	0°30'24	opposition		7179 Oct 19 23:22	0°♑41'22	-5°40'37
	7174 Jul 18 08:27	0°♒		greatest brilliancy		7179 Oct 21 06:52	0°♑18'54	-2.8m
	7174 Aug 27 19:22	0°♓				7179 Oct 22 09:22	30°♑	
max. Earth dist.	7174 Sep 03 15:21	4°♓55'25	2.45082 AU	min. Earth dist.		7179 Oct 25 16:31	29°♑04'12	0.39103 AU
morning rise	7174 Sep 17 11:21	14°♓45'58		direct		7179 Nov 21 03:30	24°♑46'04	
	7174 Oct 09 09:10	0°♐				7179 Dec 19 12:14	0°♑	
	7174 Nov 23 10:10	0°♑		asc. node		7180 Jan 21 05:43	15°♑18'25	
	7175 Jan 10 10:48	0°♒				7180 Feb 14 14:23	0°♐	
	7175 Mar 04 13:40	0°♑				7180 Mar 30 11:31	0°♑	
desc. node	7175 May 23 02:49	28°♑23'29				7180 May 13 01:02	0°♒	
retrograde	7175 May 30 00:40	28°♑40'22				7180 Jun 26 06:09	0°♓	
opposition	7175 Jul 07 15:17	19°♑55'37	-1°38'59			7180 Aug 10 17:11	0°♐	
greatest brilliancy	7175 Jul 07 21:54	19°♑49'14	-1.5m			7180 Sep 26 07:45	0°♑	
min. Earth dist.	7175 Jul 12 17:12	17°♑58'06	0.63068 AU	evening set		7180 Oct 15 18:43	12°♑22'57	
direct	7175 Aug 17 23:14	9°♑56'03				7180 Nov 12 13:19	0°♒	
	7175 Oct 22 15:09	0°♒		max. Earth dist.		7180 Nov 27 12:54	9°♒30'10	2.68042 AU
	7175 Dec 12 01:47	0°♐						
	7176 Jan 23 21:05	0°♑		conjunction		7180 Nov 30 05:45	11°♒13'04	0°21'59
	7176 Mar 03 12:23	0°♑		minimum elong		7180 Nov 30 06:23	11°♒14'05	0°22'03
	7176 Apr 10 20:37	0°♐				7180 Dec 29 17:35	0°♑	
asc. node	7176 Apr 17 05:37	5°♐00'42		desc. node		7181 Jan 11 20:28	8°♑24'16	
	7176 May 19 04:22	0°♑		morning rise		7181 Jan 12 23:38	9°♑07'50	
	7176 Jun 27 10:56	0°♒				7181 Feb 14 06:52	0°♒	
evening set	7176 Jul 15 16:20	13°♒31'50				7181 Mar 31 22:22	0°♐	
	7176 Aug 07 09:13	0°♓				7181 May 15 15:20	0°♑	
						7181 Jun 28 14:26	0°♑	
conjunction	7176 Sep 11 23:40	24°♓57'53	1°06'46			7181 Aug 11 13:14	0°♐	
minimum elong	7176 Sep 11 23:15	24°♓57'10	1°06'46			7181 Sep 27 04:24	0°♑	
	7176 Sep 19 08:13	0°♐		retrograde		7181 Dec 06 06:58	25°♑53'40	
max. Earth dist.	7176 Oct 10 16:15	14°♐22'57	2.57767 AU	asc. node		7181 Dec 08 04:43	25°♑52'07	
morning rise	7176 Nov 02 13:42	29°♐29'04		min. Earth dist.		7182 Jan 01 07:18	21°♑27'30	0.39848 AU
	7176 Nov 03 08:40	0°♑		opposition		7182 Jan 08 08:41	19°♑18'48	2°09'15
	7176 Dec 20 06:45	0°♒		greatest brilliancy		7182 Jan 07 17:18	19°♑30'33	-2.8m
	7177 Feb 07 03:32	0°♑		direct		7182 Feb 07 16:45	13°♑46'09	
	7177 Mar 31 03:48	0°♒				7182 Apr 05 13:01	0°♒	
desc. node	7177 Apr 09 00:40	4°♒47'44				7182 May 30 18:33	0°♓	
	7177 Jun 02 10:07	0°♐				7182 Jul 19 19:37	0°♐	
retrograde	7177 Jul 13 22:36	8°♐31'33				7182 Sep 06 19:26	0°♑	
opposition	7177 Aug 18 11:18	1°♐09'11	-4°44'10			7182 Oct 25 04:58	0°♒	
greatest brilliancy	7177 Aug 19 19:25	0°♐40'26	-2.0m	evening set		7182 Nov 21 03:25	16°♒56'19	

desc. node	7182 Nov 29 19:33	22°♌26'34		7187 Sep 25 06:40	0°♏	
	7182 Dec 11 15:33	0°♌		7187 Nov 07 03:58	0°♏	
max. Earth dist.	7182 Dec 20 06:01	5°♌31'56	2.64960 AU	7187 Dec 24 03:21	0°♏	
				7188 Feb 19 06:02	0°♌	
conjunction	7183 Jan 04 23:16	15°♌43'32	-0°19'02	retrograde	7188 Apr 09 21:14	12°♌29'07
minimum elong	7183 Jan 04 22:41	15°♌42'35	0°18'57	opposition	7188 May 20 06:54	2°♌44'13 2°04'11
	7183 Jan 26 15:55	0°♌		greatest brilliancy	7188 May 20 07:00	2°♌44'07 -1.3m
morning rise	7183 Feb 18 23:01	15°♌37'12		min. Earth dist.	7188 May 20 03:17	2°♌47'49 0.68009 AU
	7183 Mar 11 23:47	0°♌			7188 May 27 06:51	30°♏
	7183 Apr 23 14:55	0°♌		direct	7188 Jun 30 05:30	22°♏56'36
	7183 Jun 03 18:16	0°♌		desc. node	7188 Jul 21 18:05	25°♏28'33
	7183 Jul 13 20:26	0°♏			7188 Aug 06 19:11	0°♌
	7183 Aug 22 16:34	0°♏			7188 Oct 09 21:19	0°♌
	7183 Oct 02 16:20	0°♏			7188 Nov 28 10:32	0°♌
asc. node	7183 Oct 26 04:29	16°♏09'32			7189 Jan 11 19:27	0°♌
	7183 Nov 17 01:41	0°♏			7189 Feb 21 23:11	0°♌
retrograde	7184 Jan 28 08:29	26°♏35'55			7189 Apr 02 01:29	0°♌
min. Earth dist.	7184 Feb 28 03:41	20°♏04'59	0.53158 AU	evening set	7189 Apr 07 13:06	4°♌17'31
greatest brilliancy	7184 Mar 05 07:14	17°♏44'44	-2.0m		7189 May 10 02:37	0°♏
opposition	7184 Mar 06 16:04	17°♏13'25	5°07'28			
direct	7184 Apr 10 20:55	9°♏26'56		conjunction	7189 Jun 15 22:07	29°♏05'52 -0°00'47
	7184 Jun 18 20:52	0°♏		minimum elong	7189 Jun 15 22:14	29°♏06'07 0°00'52
	7184 Aug 14 14:28	0°♏		behind sun begin	7189 Jun 14 15:59	28°♏06'44
	7184 Oct 04 19:09	0°♌		behind sun end	7189 Jun 17 04:29	0°♏05'28
desc. node	7184 Oct 16 18:58	7°♌16'56		asc. node	7189 Jun 16 23:36	29°♏55'53
	7184 Nov 22 06:23	0°♌			7189 Jun 17 01:42	0°♏
evening set	7184 Dec 27 05:53	22°♌38'07			7189 Jul 25 19:59	0°♏
	7185 Jan 07 08:05	0°♌		max. Earth dist.	7189 Aug 06 04:03	8°♏34'30 2.39555 AU
max. Earth dist.	7185 Jan 14 20:36	5°♌02'56	2.56605 AU	morning rise	7189 Aug 25 00:12	22°♏34'56
					7189 Sep 04 03:51	0°♏
conjunction	7185 Feb 12 16:58	24°♌50'04	-0°55'35		7189 Oct 16 16:04	0°♏
minimum elong	7185 Feb 12 15:41	24°♌47'49	0°55'31		7189 Nov 30 21:28	0°♏
	7185 Feb 20 01:54	0°♌			7190 Jan 18 21:00	0°♌
	7185 Apr 02 17:08	0°♌			7190 Mar 17 08:50	0°♌
morning rise	7185 Apr 04 19:42	1°♌33'15		retrograde	7190 May 15 01:48	15°♌25'24
	7185 May 12 15:56	0°♌		desc. node	7190 Jun 08 17:09	11°♌35'20
	7185 Jun 20 12:46	0°♏		opposition	7190 Jun 23 10:43	6°♌18'55 -0°31'28
	7185 Jul 29 02:21	0°♏		greatest brilliancy	7190 Jun 23 12:13	6°♌17'28 -1.4m
	7185 Sep 06 07:28	0°♏		min. Earth dist.	7190 Jun 27 01:56	4°♌53'45 0.65733 AU
asc. node	7185 Sep 12 02:09	4°♏19'47			7190 Jul 10 21:33	30°♏♌
	7185 Oct 17 09:39	0°♏		direct	7190 Aug 04 00:10	26°♌15'54
	7185 Dec 01 11:39	0°♏			7190 Aug 29 23:23	0°♌
	7186 Jan 28 02:26	0°♏			7190 Nov 04 03:12	0°♌
retrograde	7186 Mar 07 09:36	8°♏12'03			7190 Dec 21 08:44	0°♌
	7186 Apr 12 02:54	30°♏♏			7191 Feb 01 08:09	0°♌
min. Earth dist.	7186 Apr 12 14:53	29°♏48'08	0.63698 AU		7191 Mar 12 16:10	0°♌
opposition	7186 Apr 16 14:26	28°♏12'57	4°08'21		7191 Apr 19 20:05	0°♏
greatest brilliancy	7186 Apr 16 00:56	28°♏26'24	-1.5m	asc. node	7191 May 04 23:05	11°♏56'15
direct	7186 May 25 10:27	19°♏07'35			7191 May 27 23:29	0°♏
	7186 Jul 12 12:18	0°♏		evening set	7191 Jun 20 16:41	18°♏20'32
desc. node	7186 Sep 03 18:27	25°♏16'39			7191 Jul 06 00:47	0°♏
	7186 Sep 12 10:38	0°♌			7191 Aug 15 17:02	0°♏
	7186 Nov 02 17:19	0°♌				
	7186 Dec 19 14:24	0°♌		conjunction	7191 Aug 23 06:32	5°♏25'16 1°00'16
	7187 Feb 01 06:48	0°♌		minimum elong	7191 Aug 23 04:44	5°♏22'03 1°00'13
evening set	7187 Feb 08 16:29	5°♌16'35			7191 Sep 27 10:40	0°♏
max. Earth dist.	7187 Feb 23 06:19	15°♌49'11	2.44008 AU	max. Earth dist.	7191 Sep 29 08:38	1°♏18'35 2.53255 AU
	7187 Mar 14 10:42	0°♌		morning rise	7191 Oct 17 21:22	13°♏50'08
					7191 Nov 11 08:56	0°♏
conjunction	7187 Apr 05 09:21	16°♌36'10	-1°02'52		7191 Dec 28 12:53	0°♌
minimum elong	7187 Apr 05 10:49	16°♌38'58	1°02'53		7192 Feb 16 10:34	0°♌
	7187 Apr 22 18:40	0°♌			7192 Apr 12 04:35	0°♌
	7187 May 31 01:28	0°♏		desc. node	7192 Apr 25 14:55	6°♌12'16
morning rise	7187 Jun 10 15:34	8°♏21'07		retrograde	7192 Jun 24 09:02	21°♏58'17
	7187 Jul 08 03:40	0°♏		opposition	7192 Jul 31 08:04	13°♌57'54 -3°32'28
asc. node	7187 Jul 30 23:54	17°♏46'52		greatest brilliancy	7192 Aug 01 04:44	13°♌38'39 -1.8m
	7187 Aug 15 22:20	0°♏		min. Earth dist.	7192 Aug 07 12:27	11°♌17'44 0.57047 AU

direct	7192 Sep 09 14:17	4° \approx 22'35		7197 Dec 18 09:40	0° $\overline{\text{Z}}$
	7192 Nov 21 22:12	0° H			
	7193 Jan 07 06:24	0° Y	conjunction	7197 Dec 21 21:07	2° $\overline{\text{Z}}$ 13'52 -0°02'56
	7193 Feb 17 02:58	0° B	minimum elong	7197 Dec 21 21:04	2° $\overline{\text{Z}}$ 13'46 0°02'51
asc. node	7193 Mar 21 22:09	25° B 11'54	behind sun begin	7197 Dec 21 02:46	1° $\overline{\text{Z}}$ 44'25
	7193 Mar 28 02:49	0° II	behind sun end	7197 Dec 22 15:21	2° $\overline{\text{Z}}$ 43'08
	7193 May 05 22:57	0° E		7198 Feb 02 13:36	0° \approx
	7193 Jun 14 17:38	0° Ω	morning rise	7198 Feb 03 23:06	0° \approx 55'16
	7193 Jul 26 03:42	0° P		7198 Mar 19 07:25	0° H
evening set	7193 Aug 18 15:14	16° P 24'31		7198 May 01 13:30	0° Y
	7193 Sep 07 12:49	0° $\underline{\text{E}}$		7198 Jun 12 11:35	0° B
				7198 Jul 23 11:23	0° II
conjunction	7193 Oct 09 17:03	21° $\underline{\text{E}}$ 26'54 1°03'17		7198 Sep 02 11:33	0° E
minimum elong	7193 Oct 09 17:56	21° $\underline{\text{E}}$ 28'20 1°03'18		7198 Oct 15 16:40	0° Ω
	7193 Oct 22 18:41	0° M	asc. node	7198 Nov 11 20:12	16° Ω 34'51
max. Earth dist.	7193 Oct 27 01:51	2° M 47'39 2.63183 AU		7198 Dec 10 01:27	0° P
morning rise	7193 Nov 26 03:14	22° M 07'32	retrograde	7199 Jan 10 03:59	6° P 19'22
	7193 Dec 08 12:37	0° J	min. Earth dist.	7199 Feb 07 14:30	0° P 42'20 0.47808 AU
	7194 Jan 25 09:35	0° $\overline{\text{Z}}$		7199 Feb 09 14:28	30° R Ω
desc. node	7194 Mar 13 12:55	28° $\overline{\text{Z}}$ 50'49	greatest brilliancy	7199 Feb 14 11:39	28° Ω 13'57 -2.3m
	7194 Mar 15 10:54	0° \approx	opposition	7199 Feb 15 22:45	27° Ω 42'11 4°45'57
	7194 May 05 21:51	0° H	direct	7199 Mar 21 08:03	20° Ω 41'49
	7194 Jul 05 14:32	0° Y		7199 May 02 12:57	0° P
retrograde	7194 Aug 20 14:36	10° Y 27'32		7199 Jul 03 03:39	0° $\underline{\text{E}}$
opposition	7194 Sep 22 03:15	4° Y 22'29 -6°04'14		7199 Aug 24 11:00	0° M
greatest brilliancy	7194 Sep 23 22:55	3° Y 47'45 -2.5m		7199 Oct 13 05:58	0° J
min. Earth dist.	7194 Sep 30 10:09	1° Y 45'09 0.43737 AU	desc. node	7199 Nov 03 08:37	13° J 03'39
	7194 Oct 06 11:48	30° R H		7199 Nov 30 05:06	0° $\overline{\text{Z}}$
direct	7194 Oct 27 13:29	27° H 01'02	evening set	7199 Dec 13 09:50	8° $\overline{\text{Z}}$ 28'23
	7194 Nov 17 13:16	0° Y	max. Earth dist.	7200 Jan 04 19:00	23° $\overline{\text{Z}}$ 05'03 2.60499 AU
	7195 Jan 16 19:17	0° B		7200 Jan 15 05:07	0° \approx
asc. node	7195 Feb 06 22:15	14° B 07'35			
	7195 Mar 01 10:58	0° II	conjunction	7200 Jan 28 08:07	8° \approx 48'52 -0°43'01
	7195 Apr 11 21:14	0° E	minimum elong	7200 Jan 28 06:55	8° \approx 46'51 0°42'56
	7195 May 23 14:28	0° Ω		7200 Feb 28 03:32	0° H
	7195 Jul 05 14:36	0° P	morning rise	7200 Mar 16 04:49	12° H 01'56
	7195 Aug 19 05:50	0° $\underline{\text{E}}$		7200 Apr 10 02:45	0° Y
evening set	7195 Oct 01 18:59	28° $\underline{\text{E}}$ 22'21		7200 May 20 10:51	0° B
	7195 Oct 04 07:42	0° M		7200 Jun 28 16:30	0° II
				7200 Aug 06 14:01	0° E
conjunction	7195 Nov 17 07:25	28° M 05'37 0°36'22		7200 Sep 15 04:22	0° Ω
minimum elong	7195 Nov 17 08:24	28° M 07'11 0°36'26	asc. node	7200 Sep 28 19:38	10° Ω 01'48
max. Earth dist.	7195 Nov 19 17:13	29° M 37'28 2.67760 AU		7200 Oct 27 00:59	0° P
	7195 Nov 20 07:24	0° J		7200 Dec 13 18:20	0° $\underline{\text{E}}$
morning rise	7195 Dec 31 10:36	26° J 07'23	retrograde	7201 Feb 21 03:18	23° $\underline{\text{E}}$ 33'48
	7196 Jan 06 12:57	0° $\overline{\text{Z}}$	min. Earth dist.	7201 Mar 27 09:46	15° $\underline{\text{E}}$ 49'24 0.60259 AU
desc. node	7196 Jan 29 11:32	14° $\overline{\text{Z}}$ 37'09	opposition	7201 Apr 01 21:07	13° $\underline{\text{E}}$ 39'43 4°43'18
	7196 Feb 22 12:17	0° \approx	greatest brilliancy	7201 Mar 31 23:45	14° $\underline{\text{E}}$ 00'49 -1.6m
	7196 Apr 09 01:08	0° H	direct	7201 May 09 11:47	4° $\underline{\text{E}}$ 59'36
	7196 May 25 06:58	0° Y		7201 Jul 27 21:14	0° M
	7196 Jul 10 21:09	0° B	desc. node	7201 Sep 20 07:54	29° M 23'32
	7196 Aug 29 09:13	0° II		7201 Sep 21 09:11	0° J
retrograde	7196 Nov 08 00:04	24° II 46'10		7201 Nov 10 05:35	0° $\overline{\text{Z}}$
min. Earth dist.	7196 Dec 05 22:15	20° II 13'09 0.36962 AU		7201 Dec 26 16:50	0° \approx
opposition	7196 Dec 08 14:29	19° II 29'28 -1°14'32	evening set	7202 Jan 21 13:23	17° \approx 32'50
greatest brilliancy	7196 Dec 08 13:03	19° II 30'26 -3.0m	max. Earth dist.	7202 Feb 05 00:02	27° \approx 37'10 2.49305 AU
asc. node	7196 Dec 24 22:05	15° II 41'39		7202 Feb 08 08:58	0° H
direct	7197 Jan 06 23:14	14° II 35'00			
	7197 Mar 01 14:50	0° E	conjunction	7202 Mar 14 01:24	24° H 20'34 -1°06'15
	7197 Apr 23 20:50	0° Ω	minimum elong	7202 Mar 14 01:09	24° H 20'07 1°06'15
	7197 Jun 10 22:39	0° P		7202 Mar 21 16:40	0° Y
	7197 Jul 28 11:46	0° $\underline{\text{E}}$		7202 Apr 30 05:51	0° B
	7197 Sep 14 06:58	0° M	morning rise	7202 May 12 06:07	9° B 18'17
	7197 Nov 01 03:00	0° J		7202 Jun 07 17:21	0° II
evening set	7197 Nov 07 03:42	3° J 47'55		7202 Jul 15 22:48	0° E
max. Earth dist.	7197 Dec 11 05:22	25° J 24'25 2.66822 AU	asc. node	7202 Aug 16 18:23	24° E 37'33
desc. node	7197 Dec 16 09:43	28° J 43'13		7202 Aug 23 19:39	0° Ω

	7202 Oct 03 07:11	0°♎			7208 Jan 18 02:59	0°♑
	7202 Nov 15 14:59	0°♏			7208 Feb 27 02:50	0°♐
	7203 Jan 03 08:01	0°♎			7208 Apr 05 15:39	0°♐
retrograde	7203 Mar 28 15:59	29°♎47'29		asc. node	7208 Apr 07 15:20	1°♐33'23
min. Earth dist.	7203 May 06 11:54	20°♎33'07	0.67093 AU		7208 May 14 02:43	0°♐
opposition	7203 May 08 03:35	19°♎53'33	2°56'36		7208 Jun 22 12:24	0°♏
greatest brilliancy	7203 May 07 23:49	19°♎57'18	-1.3m	evening set	7208 Jul 28 18:29	26°♏34'08
direct	7203 Jun 17 10:42	10°♎19'10			7208 Aug 02 13:29	0°♎
desc. node	7203 Aug 08 07:21	22°♎39'27			7208 Sep 14 14:40	0°♏
	7203 Aug 25 01:25	0°♏				
	7203 Oct 20 02:13	0°♐		conjunction	7208 Sep 22 13:24	5°♏23'12 1°07'06
	7203 Dec 07 05:54	0°♐		minimum elong	7208 Sep 22 13:35	5°♏23'32 1°07'07
	7204 Jan 20 06:04	0°♐		max. Earth dist.	7208 Oct 17 01:19	21°♏43'52 2.59912 AU
	7204 Mar 01 08:48	0°♑			7208 Oct 29 15:46	0°♎
evening set	7204 Mar 13 02:57	8°♑52'47		morning rise	7208 Nov 11 10:01	8°♎17'01
	7204 Apr 09 12:42	0°♐			7208 Dec 15 11:02	0°♏
max. Earth dist.	7204 Apr 27 21:03	14°♐23'03	2.36901 AU		7209 Feb 01 20:50	0°♐
					7209 Mar 24 12:12	0°♐
conjunction	7204 May 16 15:21	29°♐12'14	-0°32'58	desc. node	7209 Mar 30 03:26	3°♐12'25
minimum elong	7204 May 16 18:20	29°♐18'09	0°33'01		7209 May 20 02:15	0°♐
	7204 May 17 15:29	0°♐		retrograde	7209 Jul 26 09:57	19°♐28'35
	7204 Jun 24 15:03	0°♐		opposition	7209 Aug 29 23:44	12°♐31'42 -5°21'09
asc. node	7204 Jul 03 15:44	7°♐04'07		greatest brilliancy	7209 Aug 31 14:05	11°♐58'33 -2.1m
morning rise	7204 Jul 28 09:11	26°♐12'07		min. Earth dist.	7209 Sep 07 14:55	9°♐33'33 0.49149 AU
	7204 Aug 02 08:33	0°♏		direct	7209 Oct 06 21:38	3°♐59'48
	7204 Sep 11 15:05	0°♎			7209 Dec 17 02:23	0°♑
	7204 Oct 24 03:52	0°♏			7210 Jan 31 00:33	0°♐
	7204 Dec 08 18:13	0°♎		asc. node	7210 Feb 23 13:49	17°♐12'08
	7205 Jan 28 08:16	0°♏			7210 Mar 12 17:16	0°♐
	7205 Apr 09 00:17	0°♐			7210 Apr 21 15:44	0°♐
retrograde	7205 May 01 00:05	2°♐40'58			7210 Jun 01 08:05	0°♏
	7205 May 21 11:03	30°♐♏			7210 Jul 13 13:01	0°♎
opposition	7205 Jun 09 22:19	23°♏16'45	0°31'57		7210 Aug 26 13:29	0°♏
greatest brilliancy	7205 Jun 09 23:33	23°♏15'32	-1.3m	evening set	7210 Sep 15 20:05	13°♏26'17
min. Earth dist.	7205 Jun 12 01:59	22°♏25'51	0.67404 AU		7210 Oct 11 05:29	0°♎
desc. node	7205 Jun 25 06:41	17°♏36'21				
direct	7205 Jul 21 10:46	13°♏16'17		conjunction	7210 Nov 02 23:16	14°♎38'19 0°48'56
	7205 Sep 20 09:15	0°♐		minimum elong	7210 Nov 03 00:25	14°♎40'10 0°48'59
	7205 Nov 14 03:59	0°♐		max. Earth dist.	7210 Nov 10 18:58	19°♎38'30 2.66632 AU
	7205 Dec 29 19:54	0°♐			7210 Nov 27 01:12	0°♏
	7206 Feb 09 08:23	0°♑		morning rise	7210 Dec 17 23:01	13°♏15'50
	7206 Mar 20 12:37	0°♐			7211 Jan 13 10:22	0°♐
	7206 Apr 27 14:14	0°♐		desc. node	7211 Feb 15 01:27	20°♐35'01
asc. node	7206 May 21 14:51	19°♐00'05			7211 Mar 02 00:07	0°♐
evening set	7206 May 22 22:26	20°♐02'21			7211 Apr 18 19:49	0°♐
	7206 Jun 04 14:40	0°♐			7211 Jun 06 14:48	0°♑
	7206 Jul 13 12:01	0°♏			7211 Jul 29 06:53	0°♐
				retrograde	7211 Oct 07 16:37	22°♐51'23
conjunction	7206 Jul 30 09:21	12°♏41'08	0°44'22	opposition	7211 Nov 06 14:29	17°♐54'25 -4°35'28
minimum elong	7206 Jul 30 06:32	12°♏35'52	0°44'17	greatest brilliancy	7211 Nov 07 07:44	17°♐42'51 -3.0m
	7206 Aug 22 23:42	0°♎		min. Earth dist.	7211 Nov 09 18:48	17°♐03'22 0.37401 AU
max. Earth dist.	7206 Sep 14 08:50	15°♎57'58	2.48127 AU	direct	7211 Dec 07 01:45	12°♐39'07
morning rise	7206 Sep 29 05:34	26°♎19'45		asc. node	7212 Jan 11 13:47	20°♐24'36
	7206 Oct 04 13:35	0°♏			7212 Feb 01 01:48	0°♐
	7206 Nov 18 12:00	0°♎			7212 Mar 21 23:22	0°♐
	7207 Jan 05 02:18	0°♏			7212 May 06 07:46	0°♏
	7207 Feb 25 15:33	0°♐			7212 Jun 20 12:04	0°♎
	7207 May 01 07:08	0°♐			7212 Aug 05 13:03	0°♏
desc. node	7207 May 13 05:27	3°♐33'58			7212 Sep 21 12:07	0°♎
retrograde	7207 Jun 08 03:13	7°♐08'52		evening set	7212 Oct 24 01:27	20°♎36'13
	7207 Jul 12 15:02	30°♐♐			7212 Nov 07 22:07	0°♏
opposition	7207 Jul 16 05:42	28°♐38'15	-2°20'05	max. Earth dist.	7212 Dec 02 14:29	15°♏38'42 2.67848 AU
greatest brilliancy	7207 Jul 16 16:37	28°♐27'50	-1.6m			
min. Earth dist.	7207 Jul 22 02:13	26°♐24'16	0.61166 AU	conjunction	7212 Dec 08 02:52	19°♏09'11 0°13'01
direct	7207 Aug 26 07:25	18°♐44'28		minimum elong	7212 Dec 08 03:15	19°♏09'48 0°13'05
	7207 Oct 11 16:42	0°♐		behind sun begin	7212 Dec 07 16:32	18°♏52'45
	7207 Dec 05 09:59	0°♐		behind sun end	7212 Dec 08 13:58	19°♏26'51

	7212 Dec 25 02:48	0°♁			7218 Jan 16 07:16	0°♍	
desc. node	7213 Jan 01 23:39	5°♁02'34		retrograde	7218 Mar 15 06:05	16°♍34'51	
morning rise	7213 Jan 20 20:08	17°♁11'50		min. Earth dist.	7218 Apr 21 11:36	7°♍51'35	0.65187 AU
	7213 Feb 09 12:25	0°♁		opposition	7218 Apr 24 15:14	6°♍36'09	3°43'58
	7213 Mar 26 19:31	0°♁		greatest brilliancy	7218 Apr 24 05:43	6°♍45'39	-1.4m
	7213 May 09 22:22	0°♁			7218 May 13 14:22	30°♍♂	
	7213 Jun 22 00:27	0°♁		direct	7218 Jun 03 01:39	27°♂19'08	
	7213 Aug 03 13:23	0°♂			7218 Jun 25 04:47	0°♍	
	7213 Sep 16 01:35	0°♂		desc. node	7218 Aug 24 21:18	23°♍50'47	
	7213 Nov 05 18:33	0°♂			7218 Sep 05 19:57	0°♁	
asc. node	7213 Nov 28 14:33	8°♂52'37			7218 Oct 28 10:13	0°♁	
retrograde	7213 Dec 20 00:32	12°♂02'02			7218 Dec 14 17:20	0°♁	
min. Earth dist.	7214 Jan 15 10:34	7°♂16'34	0.42404 AU		7219 Jan 27 12:54	0°♁	
greatest brilliancy	7214 Jan 22 10:20	5°♂00'02	-2.6m	evening set	7219 Feb 19 23:45	16°♁53'20	
opposition	7214 Jan 23 12:55	4°♂38'10	3°29'10	max. Earth dist.	7219 Mar 09 05:27	29°♁38'40	2.41120 AU
	7214 Feb 09 08:06	30°♁♂			7219 Mar 09 16:51	0°♁	
direct	7214 Feb 23 23:42	28°♂33'56			7219 Apr 17 23:44	0°♁	
	7214 Mar 11 00:54	0°♂					
	7214 May 22 06:41	0°♁		conjunction	7219 Apr 19 13:52	1°♁14'05	-0°55'47
	7214 Jul 13 15:59	0°♂		minimum elong	7219 Apr 19 16:25	1°♁19'03	0°55'48
	7214 Sep 01 14:00	0°♍			7219 May 26 05:12	0°♂	
	7214 Oct 20 09:57	0°♁		morning rise	7219 Jun 28 07:56	26°♂08'01	
desc. node	7214 Nov 19 22:06	19°♁07'00			7219 Jul 03 06:03	0°♂	
evening set	7214 Nov 29 04:21	24°♁59'34		asc. node	7219 Jul 21 09:26	14°♂09'35	
	7214 Dec 07 00:41	0°♁			7219 Aug 10 23:27	0°♂	
max. Earth dist.	7214 Dec 25 17:26	12°♁03'14	2.63591 AU		7219 Sep 20 05:49	0°♁	
					7219 Nov 01 21:40	0°♂	
conjunction	7215 Jan 13 05:57	24°♁10'28	-0°28'14		7219 Dec 18 04:08	0°♍	
minimum elong	7215 Jan 13 05:07	24°♁09'04	0°28'09		7220 Feb 09 18:19	0°♁	
	7215 Jan 22 01:01	0°♁		retrograde	7220 Apr 17 11:43	20°♁09'16	
morning rise	7215 Feb 28 00:28	25°♁01'01		opposition	7220 May 27 18:50	10°♁30'47	1°31'21
	7215 Mar 07 05:34	0°♁		greatest brilliancy	7220 May 27 20:04	10°♁29'33	-1.3m
	7215 Apr 18 14:47	0°♁		min. Earth dist.	7220 May 28 10:58	10°♁14'47	0.68070 AU
	7215 May 29 10:44	0°♁		direct	7220 Jul 08 00:13	0°♁37'28	
	7215 Jul 08 04:39	0°♂		desc. node	7220 Jul 11 21:20	0°♁42'50	
	7215 Aug 16 14:45	0°♂			7220 Oct 03 01:15	0°♁	
	7215 Sep 25 22:17	0°♂			7220 Nov 22 23:45	0°♁	
asc. node	7215 Oct 16 12:46	14°♂39'04			7221 Jan 06 18:29	0°♁	
	7215 Nov 08 09:47	0°♁			7221 Feb 17 01:13	0°♁	
	7216 Jan 03 07:55	0°♂			7221 Mar 28 04:15	0°♁	
retrograde	7216 Feb 06 17:56	7°♂15'41		evening set	7221 Apr 23 10:25	20°♁39'32	
min. Earth dist.	7216 Mar 09 20:11	0°♂17'08	0.55897 AU		7221 May 05 05:31	0°♂	
	7216 Mar 10 14:07	30°♁♁		asc. node	7221 Jun 07 07:21	26°♂09'23	
greatest brilliancy	7216 Mar 15 11:33	28°♁06'10	-1.8m		7221 Jun 12 04:45	0°♂	
opposition	7216 Mar 16 16:48	27°♁37'49	5°04'56				
direct	7216 Apr 21 19:57	19°♁30'02		conjunction	7221 Jul 02 19:28	16°♂03'44	0°17'53
	7216 Jun 07 03:53	0°♂		minimum elong	7221 Jul 02 17:40	16°♂00'17	0°17'46
	7216 Aug 08 03:53	0°♍			7221 Jul 20 23:32	0°♂	
	7216 Sep 29 13:23	0°♁		max. Earth dist.	7221 Aug 24 12:17	25°♂45'46	2.42575 AU
desc. node	7216 Oct 06 21:18	4°♁23'07			7221 Aug 30 07:53	0°♁	
	7216 Nov 17 11:15	0°♁		morning rise	7221 Sep 07 17:31	6°♁04'00	
	7217 Jan 02 16:32	0°♁			7221 Oct 11 19:17	0°♂	
evening set	7217 Jan 05 02:18	1°♁36'32			7221 Nov 25 20:12	0°♍	
max. Earth dist.	7217 Jan 21 21:01	12°♁57'32	2.54183 AU		7222 Jan 13 03:18	0°♁	
	7217 Feb 15 10:16	0°♁			7222 Mar 08 13:31	0°♁	
				retrograde	7222 May 23 10:47	23°♁24'13	
conjunction	7217 Feb 22 17:06	5°♁09'24	-1°01'10	desc. node	7222 May 29 20:02	23°♁08'55	
minimum elong	7217 Feb 22 15:59	5°♁07'26	1°01'07	opposition	7222 Jul 01 10:45	14°♁29'03	-1°10'19
	7217 Mar 28 23:06	0°♁		greatest brilliancy	7222 Jul 01 14:48	14°♁25'08	-1.5m
morning rise	7217 Apr 17 05:27	14°♁22'54		min. Earth dist.	7222 Jul 05 21:17	12°♁45'46	0.64389 AU
	7217 May 07 18:29	0°♁		direct	7222 Aug 11 22:45	4°♁27'06	
	7217 Jun 15 11:42	0°♂			7222 Oct 27 14:25	0°♁	
	7217 Jul 23 21:36	0°♂			7222 Dec 15 12:39	0°♁	
	7217 Aug 31 22:29	0°♂			7223 Jan 26 23:43	0°♁	
asc. node	7217 Sep 02 10:17	1°♂07'34			7223 Mar 07 12:13	0°♁	
	7217 Oct 11 16:57	0°♁			7223 Apr 14 18:29	0°♂	
	7217 Nov 24 21:02	0°♂		asc. node	7223 Apr 25 06:49	8°♂17'15	

	7223 May 22 23:36	0°☾			7228 Apr 03 15:23	0°☿		
	7223 Jul 01 02:48	0°♈			7228 May 18 23:18	0°♈		
evening set	7223 Jul 05 19:57	3°♈32'22			7228 Jul 02 21:48	0°♈		
	7223 Aug 10 21:10	0°♈			7228 Aug 17 13:14	0°♈		
					7228 Oct 08 07:46	0°☾		
conjunction	7223 Sep 04 09:37	17°♈22'06	1°05'02	retrograde	7228 Nov 24 13:34	13°☾07'33		
minimum elong	7223 Sep 04 08:38	17°♈20'24	1°05'00	asc. node	7228 Dec 15 06:16	10°☾18'16		
	7223 Sep 22 16:19	0°♈		min. Earth dist.	7228 Dec 20 22:15	8°☾46'38	0.38201 AU	
max. Earth dist.	7223 Oct 06 16:50	9°♈30'52	2.55858 AU	opposition	7228 Dec 26 10:07	7°☾12'00	0°49'11	
morning rise	7223 Oct 27 14:46	23°♈26'55		greatest brilliancy	7228 Dec 26 05:11	7°☾15'33	-3.0m	
	7223 Nov 06 14:28	0°♈		direct	7229 Jan 25 01:15	2°☾01'23		
	7223 Dec 23 13:31	0°♈			7229 Apr 13 22:17	0°♈		
	7224 Feb 10 18:29	0°♈			7229 Jun 04 02:05	0°♈		
	7224 Apr 03 23:59	0°♈			7229 Jul 22 20:31	0°♈		
desc. node	7224 Apr 15 17:49	6°♈02'00			7229 Sep 09 06:25	0°♈		
	7224 Jun 18 06:46	0°♈			7229 Oct 27 09:42	0°♈		
retrograde	7224 Jul 05 02:14	1°♈36'16		evening set	7229 Nov 15 04:08	11°♈48'26		
	7224 Jul 21 02:12	30°♈		desc. node	7229 Dec 06 12:06	25°♈20'42		
opposition	7224 Aug 10 07:47	23°♈55'44	-4°13'59		7229 Dec 13 18:48	0°♈		
greatest brilliancy	7224 Aug 11 10:53	23°♈31'00	-1.9m	max. Earth dist.	7229 Dec 16 11:17	1°♈43'22	2.65895 AU	
min. Earth dist.	7224 Aug 18 04:07	21°♈04'33	0.54434 AU					
direct	7224 Sep 18 22:53	14°♈37'09		conjunction	7229 Dec 29 21:33	10°♈22'33	-0°12'22	
	7224 Nov 11 10:01	0°♈		minimum elong	7229 Dec 29 21:10	10°♈21'57	0°12'17	
	7224 Dec 31 06:33	0°♈		behind sun begin	7229 Dec 29 09:01	10°♈02'17		
	7225 Feb 11 01:01	0°♈		behind sun end	7229 Dec 30 09:19	10°♈41'36		
asc. node	7225 Mar 12 07:48	22°♈12'56			7230 Jan 28 21:30	0°♈		
	7225 Mar 22 11:10	0°♈		morning rise	7230 Feb 12 09:45	9°♈39'15		
	7225 Apr 30 13:53	0°☾			7230 Mar 14 10:29	0°♈		
	7225 Jun 09 13:56	0°♈			7230 Apr 26 08:51	0°♈		
	7225 Jul 21 04:48	0°♈			7230 Jun 06 20:35	0°♈		
evening set	7225 Aug 29 10:18	27°♈05'24			7230 Jul 17 07:49	0°♈		
	7225 Sep 02 17:41	0°♈			7230 Aug 26 13:58	0°☾		
					7230 Oct 07 06:21	0°♈		
conjunction	7225 Oct 18 20:47	0°♈30'28	0°58'58	asc. node	7230 Nov 02 05:59	17°♈14'12		
minimum elong	7225 Oct 18 21:52	0°♈32'13	0°59'01		7230 Nov 23 21:12	0°♈		
	7225 Oct 18 02:03	0°♈		retrograde	7231 Jan 20 18:17	18°♈41'09		
max. Earth dist.	7225 Nov 01 16:54	9°♈27'55	2.64649 AU	min. Earth dist.	7231 Feb 19 12:11	12°♈34'26	0.50805 AU	
	7225 Dec 03 19:36	0°♈		greatest brilliancy	7231 Feb 26 01:05	10°♈08'28	-2.1m	
morning rise	7225 Dec 04 05:54	0°♈16'19		opposition	7231 Feb 27 11:58	9°♈35'52	5°03'46	
	7226 Jan 20 11:05	0°♈		direct	7231 Apr 02 21:41	2°♈08'54		
desc. node	7226 Mar 03 15:50	26°♈10'57			7231 Jun 25 03:41	0°♈		
	7226 Mar 09 20:54	0°♈			7231 Aug 18 16:08	0°♈		
	7226 Apr 28 15:16	0°♈			7231 Oct 08 05:35	0°♈		
	7226 Jun 21 12:30	0°♈		desc. node	7231 Oct 24 11:30	9°♈57'00		
retrograde	7226 Sep 05 17:52	24°♈40'20			7231 Nov 25 12:01	0°♈		
opposition	7226 Oct 07 04:30	19°♈04'38	-6°02'27	evening set	7231 Dec 21 19:18	16°♈56'48		
greatest brilliancy	7226 Oct 08 20:00	18°♈34'57	-2.7m		7232 Jan 10 13:58	0°♈		
min. Earth dist.	7226 Oct 14 08:53	16°♈56'01	0.40989 AU	max. Earth dist.	7232 Jan 10 23:29	0°♈15'52	2.58428 AU	
direct	7226 Nov 09 20:19	12°♈30'41						
	7227 Jan 04 02:43	0°♈		conjunction	7232 Feb 06 11:46	18°♈13'27	-0°50'41	
	7227 Jan 28 07:20	14°♈18'10		minimum elong	7232 Feb 06 10:29	18°♈11'15	0°50'37	
	7227 Feb 21 02:49	0°♈			7232 Feb 23 10:49	0°♈		
	7227 Apr 05 01:59	0°☾		morning rise	7232 Mar 26 23:56	23°♈13'49		
	7227 May 17 15:40	0°♈			7232 Apr 05 06:31	0°♈		
	7227 Jun 30 05:29	0°♈			7232 May 15 10:01	0°♈		
	7227 Aug 14 05:49	0°♈			7232 Jun 23 11:06	0°♈		
	7227 Sep 29 13:39	0°♈			7232 Aug 01 03:51	0°☾		
evening set	7227 Oct 10 11:08	6°♈58'07			7232 Sep 09 11:47	0°♈		
	7227 Nov 15 16:06	0°♈		asc. node	7232 Sep 19 04:05	7°♈12'17		
					7232 Oct 20 19:12	0°♈		
conjunction	7227 Nov 25 07:51	6°♈07'45	0°28'07		7232 Dec 05 14:50	0°♈		
minimum elong	7227 Nov 25 08:39	6°♈09'01	0°28'11		7233 Feb 09 05:53	0°♈		
max. Earth dist.	7227 Nov 24 21:04	5°♈50'39	2.68025 AU	retrograde	7233 Mar 01 09:13	2°♈32'43		
	7228 Jan 01 20:48	0°♈			7233 Mar 20 12:35	30°♈		
morning rise	7228 Jan 08 04:26	4°♈01'54		min. Earth dist.	7233 Apr 05 18:32	24°♈25'57	0.62275 AU	
desc. node	7228 Jan 19 13:41	11°♈18'48		opposition	7233 Apr 10 10:23	22°♈34'58	4°24'28	
	7228 Feb 17 14:42	0°♈		greatest brilliancy	7233 Apr 09 17:31	22°♈51'42	-1.5m	

direct	7233 May 18 18:39	13°♄40'08			7238 May 30 17:33	0°♄	
	7233 Jul 18 20:16	0°♍		evening set	7238 Jun 08 08:51	6°♄44'14	
desc. node	7233 Sep 10 11:17	27°♍09'58			7238 Jul 08 16:01	0°♌	
	7233 Sep 15 12:57	0°♊					
	7233 Nov 05 05:07	0°♈		conjunction	7238 Aug 13 07:48	26°♌27'51	0°54'44
	7233 Dec 21 23:13	0°♏		minimum elong	7238 Aug 13 05:26	26°♌23'34	0°54'40
evening set	7234 Jan 31 14:21	27°♏48'40			7238 Aug 18 04:55	0°♍	
	7234 Feb 03 16:47	0°♎		max. Earth dist.	7238 Sep 23 08:11	25°♍32'59	2.51025 AU
max. Earth dist.	7234 Feb 14 12:58	7°♎43'31	2.46393 AU		7238 Sep 29 19:11	0°♎	
	7234 Mar 16 23:23	0°♏		morning rise	7238 Oct 10 03:12	7°♎02'56	
					7238 Nov 13 15:51	0°♍	
conjunction	7234 Mar 26 06:19	6°♏57'38	-1°05'37		7238 Dec 30 22:05	0°♊	
minimum elong	7234 Mar 26 06:57	6°♏58'50	1°05'38		7239 Feb 19 08:33	0°♈	
	7234 Apr 25 10:12	0°♉			7239 Apr 18 13:07	0°♏	
morning rise	7234 May 28 08:14	25°♉42'15		desc. node	7239 May 03 07:45	6°♏04'19	
	7234 Jun 02 19:19	0°♊		retrograde	7239 Jun 17 16:34	15°♏55'31	
	7234 Jul 10 22:37	0°♌		opposition	7239 Jul 25 05:12	7°♏40'45	-3°01'42
asc. node	7234 Aug 07 01:08	21°♌03'38		greatest brilliancy	7239 Jul 25 21:20	7°♏25'33	-1.7m
	7234 Aug 18 17:21	0°♌		min. Earth dist.	7239 Jul 31 20:22	5°♏11'06	0.59001 AU
	7234 Sep 28 01:41	0°♍			7239 Aug 17 08:03	30°♎	
	7234 Nov 10 00:52	0°♎		direct	7239 Sep 03 22:08	27°♎55'40	
	7234 Dec 27 12:03	0°♍			7239 Sep 22 07:20	0°♏	
	7235 Feb 26 08:13	0°♊			7239 Nov 27 23:53	0°♎	
retrograde	7235 Apr 05 05:29	7°♊35'13			7240 Jan 12 01:34	0°♏	
	7235 May 10 01:23	30°♎			7240 Feb 21 12:35	0°♉	
opposition	7235 May 15 17:12	27°♎45'54	2°26'29	asc. node	7240 Mar 28 23:33	28°♉11'32	
min. Earth dist.	7235 May 14 21:32	28°♎05'28	0.67733 AU		7240 Mar 31 07:15	0°♊	
greatest brilliancy	7235 May 15 15:52	27°♎47'13	-1.3m		7240 May 08 22:34	0°♌	
direct	7235 Jun 25 10:12	18°♎03'43			7240 Jun 17 11:58	0°♌	
desc. node	7235 Jul 29 10:46	23°♎57'39			7240 Jul 28 16:42	0°♍	
	7235 Aug 15 04:39	0°♊		evening set	7240 Aug 09 22:27	8°♍39'03	
	7235 Oct 14 03:16	0°♈			7240 Sep 09 20:44	0°♎	
	7235 Dec 02 03:03	0°♏					
	7236 Jan 15 09:39	0°♎		conjunction	7240 Oct 02 12:55	15°♎13'53	1°05'29
	7236 Feb 25 14:10	0°♏		minimum elong	7240 Oct 02 13:34	15°♎14'56	1°05'30
evening set	7236 Mar 26 23:44	23°♏11'38		max. Earth dist.	7240 Oct 23 01:12	28°♎44'52	2.61820 AU
	7236 Apr 04 17:50	0°♉			7240 Oct 24 23:13	0°♍	
	7236 May 12 19:53	0°♊		morning rise	7240 Nov 19 22:52	16°♍47'55	
					7240 Dec 10 16:27	0°♊	
conjunction	7236 Jun 02 13:51	16°♊26'09	-0°15'17		7241 Jan 27 17:44	0°♈	
minimum elong	7236 Jun 02 15:31	16°♊29'25	0°15'21		7241 Mar 18 08:51	0°♏	
behind sun begin	7236 Jun 02 05:56	16°♊10'29		desc. node	7241 Mar 20 05:34	1°♏05'57	
behind sun end	7236 Jun 03 01:06	16°♊48'21			7241 May 10 11:44	0°♎	
	7236 Jun 19 18:44	0°♌			7241 Jul 24 17:39	0°♏	
asc. node	7236 Jun 24 00:42	3°♌20'05		retrograde	7241 Aug 09 02:14	1°♏21'28	
max. Earth dist.	7236 Jul 14 00:06	18°♌53'01	2.37480 AU		7241 Aug 23 18:43	30°♎	
	7236 Jul 28 11:39	0°♌		opposition	7241 Sep 11 13:03	24°♎52'24	-5°50'10
morning rise	7236 Aug 13 12:14	12°♌06'42		greatest brilliancy	7241 Sep 13 07:52	24°♎16'53	-2.3m
	7236 Sep 06 17:34	0°♍		min. Earth dist.	7241 Sep 20 04:16	22°♎01'22	0.46140 AU
	7236 Oct 19 04:07	0°♎		direct	7241 Oct 18 04:59	16°♎56'08	
	7236 Dec 03 10:57	0°♍			7241 Dec 04 05:22	0°♏	
	7237 Jan 21 21:39	0°♊			7242 Jan 22 23:27	0°♉	
	7237 Mar 23 09:40	0°♈		asc. node	7242 Feb 13 23:05	15°♉25'39	
retrograde	7237 May 08 22:59	10°♈25'51			7242 Mar 06 00:13	0°♊	
desc. node	7237 Jun 15 09:48	2°♈02'51			7242 Apr 15 15:34	0°♌	
opposition	7237 Jun 17 14:56	1°♈10'57	-0°04'41		7242 May 26 19:17	0°♌	
greatest brilliancy	7237 Jun 17 15:11	1°♈10'42	-1.4m		7242 Jul 08 09:00	0°♍	
	7237 Jun 20 15:21	30°♎			7242 Aug 21 16:00	0°♎	
min. Earth dist.	7237 Jun 20 14:24	0°♈00'55	0.66613 AU	evening set	7242 Sep 25 02:19	22°♎36'22	
direct	7237 Jul 29 05:22	21°♊08'30			7242 Oct 06 12:28	0°♍	
	7237 Sep 09 02:51	0°♈					
	7237 Nov 07 20:27	0°♏		conjunction	7242 Nov 11 06:13	22°♍54'23	0°41'50
	7237 Dec 24 10:07	0°♎		minimum elong	7242 Nov 11 07:17	22°♍56'06	0°41'53
	7238 Feb 04 05:54	0°♏		max. Earth dist.	7242 Nov 15 23:15	25°♍54'24	2.67361 AU
	7238 Mar 15 12:51	0°♉			7242 Nov 22 09:41	0°♊	
	7238 Apr 22 15:57	0°♊		morning rise	7242 Dec 25 17:12	21°♊08'29	
asc. node	7238 May 12 00:30	15°♊17'58			7243 Jan 08 16:28	0°♈	

desc. node	7243 Feb 05 04:18	17° ♄ 27'06			7248 Apr 19 22:28	30° ♄	
	7243 Feb 24 21:46	0° ♄	direct		7248 May 02 04:04	29° ♄ 01'33	
	7243 Apr 12 22:52	0° ♄			7248 May 15 00:03	0° ♄	
	7243 May 30 03:33	0° ♄			7248 Aug 01 01:41	0° ♄	
	7243 Jul 17 15:43	0° ♄			7248 Sep 24 02:56	0° ♄	
	7243 Sep 11 14:07	0° ♄	desc. node		7248 Sep 27 00:40	1° ♄ 42'11	
retrograde	7243 Oct 26 04:04	11° ♄ 03'05			7248 Nov 12 14:12	0° ♄	
opposition	7243 Nov 25 02:50	6° ♄ 04'09 -2°50'35			7248 Dec 29 00:11	0° ♄	
greatest brilliancy	7243 Nov 25 06:23	6° ♄ 01'47 -3.0m	evening set		7249 Jan 14 06:51	10° ♄ 57'44	
min. Earth dist.	7243 Nov 25 02:08	6° ♄ 04'37 0.36721 AU	max. Earth dist.		7249 Jan 29 12:52	21° ♄ 26'41 2.51564 AU	
direct	7243 Dec 24 17:09	1° ♄ 09'11			7249 Feb 10 18:15	0° ♄	
asc. node	7244 Jan 01 23:24	1° ♄ 36'43					
	7244 Mar 11 09:28	0° ♄	conjunction		7249 Mar 05 08:25	16° ♄ 09'36 -1°04'57	
	7244 Apr 28 22:25	0° ♄	minimum elong		7249 Mar 05 07:43	16° ♄ 08'19 1°04'55	
	7244 Jun 14 11:17	0° ♄			7249 Mar 24 05:26	0° ♄	
	7244 Jul 31 05:50	0° ♄	morning rise		7249 Apr 30 19:08	28° ♄ 22'12	
	7244 Sep 16 14:59	0° ♄			7249 May 02 22:03	0° ♄	
evening set	7244 Nov 01 03:52	28° ♄ 40'46			7249 Jun 10 12:24	0° ♄	
	7244 Nov 03 06:08	0° ♄			7249 Jul 18 19:35	0° ♄	
max. Earth dist.	7244 Dec 07 16:09	21° ♄ 48'17 2.67384 AU	asc. node		7249 Aug 23 19:41	27° ♄ 48'00	
					7249 Aug 26 17:08	0° ♄	
conjunction	7244 Dec 15 23:25	27° ♄ 06'09 0°03'48			7249 Oct 06 05:47	0° ♄	
minimum elong	7244 Dec 15 23:33	27° ♄ 06'21 0°03'53			7249 Nov 18 18:31	0° ♄	
behind sun begin	7244 Dec 15 05:30	26° ♄ 37'31			7250 Jan 07 12:15	0° ♄	
behind sun end	7244 Dec 16 17:36	27° ♄ 35'11	retrograde		7250 Mar 22 23:24	24° ♄ 42'58	
	7244 Dec 20 12:06	0° ♄	min. Earth dist.		7250 Apr 30 03:13	15° ♄ 41'56 0.66369 AU	
desc. node	7244 Dec 23 02:24	1° ♄ 39'50	opposition		7250 May 02 11:00	14° ♄ 46'20 3°17'02	
morning rise	7245 Jan 28 20:06	25° ♄ 26'29	greatest brilliancy		7250 May 02 04:56	14° ♄ 52'23 -1.4m	
	7245 Feb 04 19:05	0° ♄	direct		7250 Jun 11 10:04	5° ♄ 19'02	
	7245 Mar 21 19:03	0° ♄	desc. node		7250 Aug 15 00:22	23° ♄ 07'44	
	7245 May 04 10:25	0° ♄			7250 Aug 29 11:23	0° ♄	
	7245 Jun 15 20:00	0° ♄			7250 Oct 22 22:39	0° ♄	
	7245 Jul 27 10:03	0° ♄			7250 Dec 09 18:50	0° ♄	
	7245 Sep 07 05:50	0° ♄			7251 Jan 22 18:19	0° ♄	
	7245 Oct 22 07:55	0° ♄	evening set		7251 Mar 04 02:33	29° ♄ 22'08	
asc. node	7245 Nov 18 21:49	15° ♄ 07'20			7251 Mar 04 22:48	0° ♄	
retrograde	7246 Jan 01 09:50	26° ♄ 48'09	max. Earth dist.		7251 Mar 30 08:19	19° ♄ 17'05 2.38455 AU	
min. Earth dist.	7246 Jan 28 21:18	21° ♄ 35'12 0.45354 AU			7251 Apr 13 04:38	0° ♄	
greatest brilliancy	7246 Feb 04 22:09	19° ♄ 09'00 -2.4m					
opposition	7246 Feb 06 07:27	18° ♄ 39'56 4°22'10	conjunction		7251 May 04 22:33	17° ♄ 01'47 -0°44'24	
direct	7246 Mar 10 19:42	12° ♄ 03'37	minimum elong		7251 May 05 01:43	17° ♄ 08'02 0°44'25	
	7246 May 11 15:38	0° ♄			7251 May 21 08:51	0° ♄	
	7246 Jul 07 01:02	0° ♄			7251 Jun 28 08:47	0° ♄	
	7246 Aug 27 04:39	0° ♄	asc. node		7251 Jul 11 17:26	10° ♄ 27'18	
	7246 Oct 15 13:10	0° ♄	morning rise		7251 Jul 16 01:28	13° ♄ 49'38	
desc. node	7246 Nov 10 01:10	15° ♄ 51'55			7251 Aug 06 01:24	0° ♄	
	7246 Dec 02 09:07	0° ♄			7251 Sep 15 06:32	0° ♄	
evening set	7246 Dec 07 06:09	3° ♄ 07'11			7251 Oct 27 18:43	0° ♄	
max. Earth dist.	7246 Dec 31 09:35	18° ♄ 45'33 2.61986 AU			7251 Dec 12 12:44	0° ♄	
	7247 Jan 17 10:20	0° ♄			7252 Feb 01 23:36	0° ♄	
			retrograde		7252 Apr 25 04:03	27° ♄ 48'53	
conjunction	7247 Jan 21 17:19	2° ♄ 51'43 -0°37'01	opposition		7252 Jun 04 07:27	18° ♄ 17'52 0°57'00	
minimum elong	7247 Jan 21 16:14	2° ♄ 49'56 0°36'57	greatest brilliancy		7252 Jun 04 08:59	18° ♄ 16'21 -1.3m	
	7247 Mar 02 12:24	0° ♄	min. Earth dist.		7252 Jun 05 19:16	17° ♄ 42'30 0.67831 AU	
morning rise	7247 Mar 09 12:50	4° ♄ 54'04	desc. node		7252 Jul 01 23:38	9° ♄ 31'46	
	7247 Apr 13 16:58	0° ♄	direct		7252 Jul 15 18:07	8° ♄ 20'05	
	7247 May 24 06:41	0° ♄			7252 Sep 25 07:49	0° ♄	
	7247 Jul 02 17:44	0° ♄			7252 Nov 17 07:48	0° ♄	
	7247 Aug 10 20:02	0° ♄			7253 Jan 01 15:41	0° ♄	
	7247 Sep 19 15:40	0° ♄			7253 Feb 12 02:55	0° ♄	
asc. node	7247 Oct 06 20:49	12° ♄ 31'14			7253 Mar 23 07:12	0° ♄	
	7247 Oct 31 23:38	0° ♄			7253 Apr 30 08:44	0° ♄	
	7247 Dec 20 15:52	0° ♄	evening set		7253 May 09 21:56	7° ♄ 33'59	
retrograde	7248 Feb 15 16:52	17° ♄ 16'48	asc. node		7253 May 28 16:12	22° ♄ 23'56	
min. Earth dist.	7248 Mar 20 00:45	9° ♄ 52'16 0.58427 AU			7253 Jun 07 08:14	0° ♄	
greatest brilliancy	7248 Mar 25 02:46	7° ♄ 52'47 -1.7m			7253 Jul 16 03:26	0° ♄	
opposition	7248 Mar 26 03:43	7° ♄ 28'20 4°54'48					

conjunction	7253 Jul 18 18:51	2°00'20 0°34'12			7258 Aug 09 15:21	0°8
minimum elong	7253 Jul 18 16:05	1°05'55'05 0°34'05	retrograde		7258 Sep 23 06:23	10°8'23'03
	7253 Aug 25 12:21	0°0	opposition		7258 Oct 23 17:35	5°8'13'25 -5°28'37
max. Earth dist.	7253 Sep 06 09:19	8°0'33'01 2.45669 AU	greatest brilliancy		7258 Oct 24 22:38	4°8'53'04 -2.8m
morning rise	7253 Sep 20 07:32	18°0'25'06	min. Earth dist.		7258 Oct 29 01:52	3°8'44'02 0.38687 AU
	7253 Oct 06 23:35	0°0			7258 Nov 15 15:22	30°8'0
	7253 Nov 20 21:14	0°0	direct		7258 Nov 24 11:51	29°0'27'16
	7254 Jan 07 16:00	0°0			7258 Dec 03 09:20	0°8
	7254 Mar 01 02:49	0°0	asc. node		7259 Jan 18 14:57	16°8'38'42
	7254 May 15 03:38	0°0			7259 Feb 10 17:05	0°0
desc. node	7254 May 19 22:28	0°0'45'59			7259 Mar 28 10:29	0°0
retrograde	7254 Jun 01 05:13	1°0'38'15			7259 May 11 06:57	0°0
	7254 Jun 17 07:57	30°8'0			7259 Jun 24 15:01	0°0
opposition	7254 Jul 09 18:29	22°0'56'01 -1°50'27			7259 Aug 09 03:19	0°0
greatest brilliancy	7254 Jul 10 02:04	22°0'48'43 -1.5m			7259 Sep 24 18:35	0°0
min. Earth dist.	7254 Jul 15 00:18	20°0'55'10 0.62730 AU	evening set		7259 Oct 18 21:22	15°0'19'56
direct	7254 Aug 20 02:26	12°0'57'36			7259 Nov 11 00:43	0°0
	7254 Oct 18 12:47	0°0	max. Earth dist.		7259 Nov 29 23:04	12°0'00'13 2.68040 AU
	7254 Dec 09 06:32	0°0				
	7255 Jan 21 10:47	0°0	conjunction		7259 Dec 03 05:38	14°0'04'58 0°19'24
	7255 Mar 02 06:00	0°0	minimum elong		7259 Dec 03 06:12	14°0'05'53 0°19'29
	7255 Apr 09 15:52	0°0			7259 Dec 28 05:29	0°0
asc. node	7255 Apr 15 16:47	4°0'44'37	desc. node		7260 Jan 09 16:43	7°0'58'58
	7255 May 17 23:43	0°0	morning rise		7260 Jan 15 22:53	12°0'00'01
	7255 Jun 26 05:21	0°0			7260 Feb 12 18:58	0°0
evening set	7255 Jul 19 18:20	17°0'27'07			7260 Mar 29 09:56	0°0
	7255 Aug 06 02:01	0°0			7260 May 13 01:10	0°0
					7260 Jun 25 20:35	0°0
conjunction	7255 Sep 15 13:38	28°0'21'52 1°07'03			7260 Aug 08 11:24	0°0
minimum elong	7255 Sep 15 13:23	28°0'21'26 1°07'03			7260 Sep 23 02:29	0°0
	7255 Sep 17 23:02	0°0			7260 Dec 01 22:43	0°0
max. Earth dist.	7255 Oct 13 10:36	17°0'10'32 2.58193 AU	asc. node		7260 Dec 05 15:59	0°0'18'18
	7255 Nov 01 21:23	0°0	retrograde		7260 Dec 09 13:07	0°0'24'51
morning rise	7255 Nov 05 19:11	2°0'32'58			7260 Dec 17 01:24	30°8'0
	7255 Dec 18 16:51	0°0	min. Earth dist.		7261 Jan 04 13:30	25°0'55'31 0.40277 AU
	7256 Feb 05 09:06	0°0	opposition		7261 Jan 11 20:23	23°0'40'50 2°31'27
	7256 Mar 27 21:37	0°0	greatest brilliancy		7261 Jan 11 02:08	23°0'55'00 -2.8m
desc. node	7256 Apr 05 20:40	4°0'55'41	direct		7261 Feb 11 10:25	18°0'02'31
	7256 May 27 10:33	0°0			7261 Mar 30 21:31	0°0
retrograde	7256 Jul 16 18:15	11°0'55'03			7261 May 27 09:26	0°0
opposition	7256 Aug 21 02:52	4°0'37'42 -4°53'44			7261 Jul 16 22:04	0°0
greatest brilliancy	7256 Aug 22 12:39	4°0'07'42 -2.0m			7261 Sep 04 02:35	0°0
min. Earth dist.	7256 Aug 29 11:55	1°0'39'54 0.51561 AU			7261 Oct 22 14:54	0°0
	7256 Sep 03 12:30	30°8'0	evening set		7261 Nov 23 04:23	19°0'49'53
direct	7256 Sep 28 21:44	25°0'42'08	desc. node		7261 Nov 26 14:47	22°0'00'31
	7256 Oct 24 23:44	0°0			7261 Dec 09 03:42	0°0
	7256 Dec 23 04:19	0°0	max. Earth dist.		7261 Dec 21 19:17	8°0'07'53 2.64726 AU
	7257 Feb 04 10:48	0°0				
asc. node	7257 Mar 02 15:32	19°0'30'24	conjunction		7262 Jan 07 00:41	18°0'30'09 -0°21'42
	7257 Mar 16 11:59	0°0	minimum elong		7262 Jan 07 00:01	18°0'39'04 0°21'37
	7257 Apr 25 00:21	0°0			7262 Jan 24 05:51	0°0
	7257 Jun 04 07:53	0°0	morning rise		7262 Feb 21 03:29	18°0'43'18
	7257 Jul 16 04:56	0°0			7262 Mar 09 14:55	0°0
	7257 Aug 28 22:46	0°0			7262 Apr 21 06:37	0°0
evening set	7257 Sep 08 12:56	7°0'04'55			7262 Jun 01 09:51	0°0
	7257 Oct 13 10:09	0°0			7262 Jul 11 11:07	0°0
					7262 Aug 20 04:53	0°0
conjunction	7257 Oct 27 14:17	9°0'09'54 0°53'28			7262 Sep 29 22:49	0°0
minimum elong	7257 Oct 27 15:26	9°0'11'46 0°53'31	asc. node		7262 Oct 23 14:42	16°0'27'22
max. Earth dist.	7257 Nov 07 01:40	15°0'53'46 2.65849 AU			7262 Nov 13 13:46	0°0
	7257 Nov 29 04:00	0°0			7263 Jan 28 05:13	0°0
morning rise	7257 Dec 12 03:16	8°0'13'40	retrograde		7263 Jan 30 15:34	0°0'02'34
	7258 Jan 15 15:27	0°0			7263 Feb 02 01:41	30°8'0
desc. node	7258 Feb 21 18:41	23°0'16'55	min. Earth dist.		7263 Mar 02 16:48	23°0'27'03 0.53692 AU
	7258 Mar 04 13:03	0°0	greatest brilliancy		7263 Mar 08 19:00	21°0'07'49 -1.9m
	7258 Apr 22 02:21	0°0	opposition		7263 Mar 10 03:16	20°0'36'59 5°08'28
	7258 Jun 11 13:58	0°0	direct		7263 Apr 14 13:09	12°0'46'18

	7263 Jun 15 11:02	0°♎	conjunction	7268 Jun 19 18:31	3°♎48'02	0°03'53
	7263 Aug 12 12:00	0°♍	minimum elong	7268 Jun 19 18:07	3°♎47'15	0°03'48
	7263 Oct 03 01:28	0°♊	behind sun begin	7268 Jun 18 12:28	2°♎49'11	
desc. node	7263 Oct 14 13:58	6°♊57'40	behind sun end	7268 Jun 20 23:46	4°♎45'17	
	7263 Nov 20 17:23	0°♊		7268 Jul 23 15:26	0°♎	
evening set	7263 Dec 30 09:57	25°♊40'21	max. Earth dist.	7268 Aug 10 23:52	13°♎51'04	2.40126 AU
	7264 Jan 05 22:24	0°♊	morning rise	7268 Aug 28 05:55	26°♎36'38	
max. Earth dist.	7264 Jan 17 13:18	7°♊47'59		7268 Sep 01 21:23	0°♎	
				7268 Oct 14 06:49	0°♎	
conjunction	7264 Feb 16 01:12	28°♊05'15 -0°57'16		7268 Nov 28 07:57	0°♍	
minimum elong	7264 Feb 15 23:58	28°♊03'04 0°57'13		7269 Jan 15 23:02	0°♊	
	7264 Feb 18 18:40	0°♋		7269 Mar 13 02:44	0°♊	
	7264 Mar 31 11:35	0°♋	retrograde	7269 May 17 02:28	18°♊16'07	
morning rise	7264 Apr 07 13:55	5°♋14'35	desc. node	7269 Jun 05 12:42	15°♊52'52	
	7264 May 10 11:12	0°♌	opposition	7269 Jun 25 10:49	9°♊11'33 -0°42'32	
	7264 Jun 18 08:00	0°♌	greatest brilliancy	7269 Jun 25 12:53	9°♊09'32 -1.4m	
	7264 Jul 26 20:38	0°♍	min. Earth dist.	7269 Jun 29 05:58	7°♊42'48 0.65509 AU	
	7264 Sep 03 23:30	0°♎		7269 Jul 25 11:27	30°♋♊	
asc. node	7264 Sep 09 11:47	4°♎08'42	direct	7269 Aug 06 01:26	29°♊08'33	
	7264 Oct 14 21:08	0°♎		7269 Aug 18 01:23	0°♊	
	7264 Nov 28 12:14	0°♎		7269 Oct 31 22:28	0°♊	
	7265 Jan 22 16:41	0°♍		7269 Dec 18 19:10	0°♋	
retrograde	7265 Mar 09 09:46	11°♍11'14		7270 Jan 30 00:23	0°♋	
min. Earth dist.	7265 Apr 14 20:35	2°♍43'32 0.64009 AU		7270 Mar 10 10:57	0°♌	
opposition	7265 Apr 18 16:21	1°♍12'13 4°02'00		7270 Apr 17 15:43	0°♌	
greatest brilliancy	7265 Apr 18 03:48	1°♍24'43 -1.5m	asc. node	7270 May 02 07:56	11°♌35'01	
	7265 Apr 21 17:29	30°♋♍		7270 May 25 18:48	0°♍	
direct	7265 May 27 16:02	22°♍04'21	evening set	7270 Jun 24 06:46	22°♍46'56	
	7265 Jul 06 17:32	0°♍		7270 Jul 03 18:59	0°♎	
desc. node	7265 Aug 31 14:10	25°♍21'49		7270 Aug 13 09:37	0°♎	
	7265 Sep 09 05:49	0°♊				
	7265 Oct 31 00:20	0°♊	conjunction	7270 Aug 26 05:52	9°♎11'38 1°01'47	
	7265 Dec 17 03:13	0°♊	minimum elong	7270 Aug 26 04:18	9°♎08'50 1°01'45	
	7266 Jan 29 23:21	0°♋		7270 Sep 25 01:18	0°♎	
evening set	7266 Feb 11 07:07	8°♋47'10	max. Earth dist.	7270 Oct 01 05:49	4°♎13'48 2.53798 AU	
max. Earth dist.	7266 Feb 26 00:24	19°♋28'41 2.43469 AU	morning rise	7270 Oct 20 07:56	17°♎05'34	
	7266 Mar 12 05:46	0°♋		7270 Nov 08 21:13	0°♍	
				7270 Dec 25 21:47	0°♊	
conjunction	7266 Apr 08 12:08	20°♋38'44 -1°01'33		7271 Feb 13 12:30	0°♊	
minimum elong	7266 Apr 08 13:51	20°♋42'02 1°01'34		7271 Apr 09 07:10	0°♊	
	7266 Apr 20 15:13	0°♌	desc. node	7271 Apr 23 10:44	6°♊47'23	
	7266 May 28 22:32	0°♌	retrograde	7271 Jun 27 19:51	25°♊06'32	
morning rise	7266 Jun 14 11:20	13°♌02'41	opposition	7271 Aug 03 16:45	17°♊09'43 -3°43'21	
	7266 Jul 06 00:15	0°♍	greatest brilliancy	7271 Aug 04 14:54	16°♊49'11 -1.8m	
asc. node	7266 Jul 28 10:42	17°♍29'29	min. Earth dist.	7271 Aug 11 01:18	14°♊26'33 0.56581 AU	
	7266 Aug 13 17:23	0°♎	direct	7271 Sep 12 21:41	7°♊37'14	
	7266 Sep 22 23:01	0°♎		7271 Nov 19 06:18	0°♋	
	7266 Nov 04 15:48	0°♎		7272 Jan 05 13:45	0°♋	
	7266 Dec 21 05:49	0°♍		7272 Feb 15 17:17	0°♌	
	7267 Feb 14 17:17	0°♊	asc. node	7272 Mar 19 08:43	25°♌00'12	
retrograde	7267 Apr 12 19:23	15°♊18'17		7272 Mar 25 19:40	0°♌	
opposition	7267 May 23 05:37	5°♊34'33 1°54'41		7272 May 03 16:15	0°♍	
greatest brilliancy	7267 May 23 06:00	5°♊34'10 -1.3m		7272 Jun 12 10:13	0°♎	
min. Earth dist.	7267 May 23 05:56	5°♊34'13 0.68043 AU		7272 Jul 23 18:56	0°♎	
	7267 Jun 07 07:21	30°♋♍	evening set	7272 Aug 21 07:45	19°♎54'58	
direct	7267 Jul 03 06:30	25°♍45'39		7272 Sep 05 02:30	0°♎	
desc. node	7267 Jul 19 13:56	27°♍15'50				
	7267 Jul 31 14:10	0°♊	conjunction	7272 Oct 12 00:59	24°♎36'18 1°02'11	
	7267 Oct 07 16:48	0°♊	minimum elong	7272 Oct 12 01:55	24°♎37'51 1°02'13	
	7267 Nov 26 19:27	0°♊		7272 Oct 20 06:57	0°♍	
	7268 Jan 10 10:16	0°♋	max. Earth dist.	7272 Oct 28 20:25	5°♍33'50 2.63497 AU	
	7268 Feb 20 17:19	0°♋	morning rise	7272 Nov 28 05:36	25°♍04'38	
	7268 Mar 30 21:27	0°♌		7272 Dec 05 23:28	0°♊	
evening set	7268 Apr 11 01:49	8°♌45'22		7273 Jan 22 18:19	0°♊	
	7268 May 07 23:20	0°♌	desc. node	7273 Mar 10 08:41	28°♊37'51	
asc. node	7268 Jun 14 09:11	29°♌34'24		7273 Mar 12 14:58	0°♊	
	7268 Jun 14 22:13	0°♍		7273 May 02 13:23	0°♋	

	7273 Jun 29 16:30	0°♿			7278 Aug 21 13:25	0°♍
retrograde	7273 Aug 24 02:15	14°♿25'43			7278 Oct 10 13:50	0°♿
opposition	7273 Sep 25 09:49	8°♿26'07 -6°05'09	desc. node		7278 Oct 31 04:04	12°♿41'52
greatest brilliancy	7273 Sep 27 04:58	7°♿52'02 -2.5m			7278 Nov 27 16:18	0°♿
min. Earth dist.	7273 Oct 03 11:56	5°♿53'51 0.43194 AU	evening set		7278 Dec 15 12:14	11°♿26'39
direct	7273 Oct 30 11:40	1°♿13'10	max. Earth dist.		7279 Jan 06 08:07	25°♿43'24 2.60106 AU
	7274 Jan 13 01:53	0°♿			7279 Jan 12 18:47	0°♿
asc. node	7274 Feb 04 08:34	14°♿33'17				
	7274 Feb 26 13:32	0°♿	conjunction		7279 Jan 30 13:38	11°♿57'10 -0°45'16
	7274 Apr 09 06:17	0°♿	minimum elong		7279 Jan 30 12:24	11°♿55'04 0°45'12
	7274 May 21 01:55	0°♿			7279 Feb 25 19:02	0°♿
	7274 Jul 03 02:37	0°♿	morning rise		7279 Mar 19 17:42	15°♿30'03
	7274 Aug 16 17:37	0°♿			7279 Apr 08 19:31	0°♿
	7274 Oct 01 19:09	0°♿			7279 May 19 04:17	0°♿
evening set	7274 Oct 04 00:16	1°♿25'22			7279 Jun 27 09:56	0°♿
	7274 Nov 17 18:42	0°♿			7279 Aug 05 06:31	0°♿
					7279 Sep 13 18:16	0°♿
conjunction	7274 Nov 19 09:08	1°♿01'03 0°33'59	asc. node		7279 Sep 27 05:47	9°♿57'44
minimum elong	7274 Nov 19 10:04	1°♿02'32 0°34'04			7279 Oct 25 08:32	0°♿
max. Earth dist.	7274 Nov 21 03:51	2°♿08'54 2.67836 AU			7279 Dec 11 05:34	0°♿
morning rise	7275 Jan 02 10:41	29°♿00'20	retrograde		7280 Feb 24 05:24	26°♿39'30
	7275 Jan 04 00:12	0°♿	min. Earth dist.		7280 Mar 29 17:22	18°♿50'52 0.60666 AU
desc. node	7275 Jan 26 06:28	14°♿11'23	greatest brilliancy		7280 Apr 03 04:41	17°♿04'57 -1.6m
	7275 Feb 19 22:57	0°♿	opposition		7280 Apr 04 01:01	16°♿44'51 4°38'58
	7275 Apr 07 09:54	0°♿	direct		7280 May 11 20:09	8°♿01'40
	7275 May 23 11:20	0°♿			7280 Jul 23 23:42	0°♿
	7275 Jul 08 15:44	0°♿	desc. node		7280 Sep 17 04:04	29°♿16'22
	7275 Aug 25 22:49	0°♿			7280 Sep 18 10:36	0°♿
retrograde	7275 Nov 12 19:30	29°♿42'10			7280 Nov 07 14:53	0°♿
min. Earth dist.	7275 Dec 10 06:40	25°♿14'13 0.37113 AU			7280 Dec 24 06:37	0°♿
opposition	7275 Dec 13 14:39	24°♿19'29 -0°44'16	evening set		7281 Jan 23 21:59	20°♿47'51
greatest brilliancy	7275 Dec 13 13:22	24°♿20'22 -3.0m			7281 Feb 06 01:45	0°♿
asc. node	7275 Dec 23 07:37	21°♿49'48	max. Earth dist.		7281 Feb 07 00:50	0°♿40'45 2.48744 AU
direct	7276 Jan 11 21:50	19°♿23'21				
	7276 Feb 24 07:27	0°♿	conjunction		7281 Mar 16 19:51	28°♿02'15 -1°06'26
	7276 Apr 20 08:39	0°♿	minimum elong		7281 Mar 16 19:49	28°♿02'11 1°06'25
	7276 Jun 08 00:08	0°♿			7281 Mar 19 11:22	0°♿
	7276 Jul 25 18:17	0°♿			7281 Apr 28 01:29	0°♿
	7276 Sep 11 15:50	0°♿	morning rise		7281 May 15 19:16	13°♿45'41
	7276 Oct 29 13:20	0°♿			7281 Jun 05 13:04	0°♿
evening set	7276 Nov 09 05:03	6°♿42'29			7281 Jul 13 17:48	0°♿
max. Earth dist.	7276 Dec 12 20:42	28°♿03'49 2.66665 AU	asc. node		7281 Aug 14 02:29	24°♿19'08
desc. node	7276 Dec 13 04:38	28°♿16'30			7281 Aug 21 13:00	0°♿
	7276 Dec 15 21:20	0°♿			7281 Sep 30 21:34	0°♿
					7281 Nov 12 23:47	0°♿
conjunction	7276 Dec 23 21:55	5°♿08'59 -0°05'42			7281 Dec 31 02:09	0°♿
minimum elong	7276 Dec 23 21:45	5°♿08'44 0°05'37			7282 Mar 09 09:09	0°♿
behind sun begin	7276 Dec 23 04:12	4°♿40'31	retrograde		7282 Mar 30 13:57	2°♿38'10
behind sun end	7276 Dec 24 15:19	5°♿36'57			7282 Apr 19 13:09	30°♿
	7277 Jan 31 02:27	0°♿	min. Earth dist.		7282 May 08 15:07	23°♿20'31 0.67256 AU
morning rise	7277 Feb 06 01:33	3°♿56'14	opposition		7282 May 10 02:35	22°♿45'12 2°48'04
	7277 Mar 16 21:01	0°♿	greatest brilliancy		7282 May 09 23:26	22°♿48'20 -1.3m
	7277 Apr 29 03:16	0°♿	direct		7282 Jun 19 12:25	13°♿09'04
	7277 Jun 10 00:41	0°♿	desc. node		7282 Aug 05 03:45	23°♿26'49
	7277 Jul 20 22:33	0°♿			7282 Aug 20 21:28	0°♿
	7277 Aug 30 18:03	0°♿			7282 Oct 17 04:37	0°♿
	7277 Oct 12 10:10	0°♿			7282 Dec 04 17:34	0°♿
asc. node	7277 Nov 09 07:14	17°♿31'01			7283 Jan 17 22:37	0°♿
	7277 Dec 03 08:13	0°♿			7283 Feb 28 04:17	0°♿
retrograde	7278 Jan 12 17:16	10°♿08'47	evening set		7283 Mar 17 03:03	12°♿48'54
min. Earth dist.	7278 Feb 10 10:02	4°♿26'51 0.48375 AU			7283 Apr 08 09:41	0°♿
greatest brilliancy	7278 Feb 17 06:24	1°♿58'06 -2.2m	max. Earth dist.		7283 May 13 05:27	27°♿22'59 2.36688 AU
opposition	7278 Feb 18 18:05	1°♿25'39 4°52'57			7283 May 16 12:47	0°♿
	7278 Feb 22 18:31	30°♿				
direct	7278 Mar 24 07:41	24°♿20'16	conjunction		7283 May 21 07:44	3°♿47'37 -0°29'02
	7278 Apr 25 07:11	0°♿	minimum elong		7283 May 21 10:30	3°♿53'07 0°29'04
	7278 Jun 29 16:43	0°♿			7283 Jun 23 11:40	0°♿

asc. node	7283 Jul 02 02:01	6°♄44'31		greatest brilliancy	7288 Sep 03 10:33	15°♄33'41	-2.2m
	7283 Aug 01 03:35	0°♂		min. Earth dist.	7288 Sep 10 10:16	13°♄10'20	0.48591 AU
morning rise	7283 Aug 02 03:16	0°♂45'11		direct	7288 Oct 09 12:17	7°♄41'35	
	7283 Sep 10 07:43	0°♍			7288 Dec 13 05:55	0°♍	
	7283 Oct 22 17:08	0°♎			7289 Jan 28 04:52	0°♎	
	7283 Dec 07 02:02	0°♏		asc. node	7289 Feb 21 00:21	17°♎14'34	
	7284 Jan 26 02:59	0°♐			7289 Mar 10 04:39	0°♏	
	7284 Mar 31 13:34	0°♑			7289 Apr 19 05:36	0°♐	
retrograde	7284 May 02 23:37	5°♑30'38			7289 May 29 22:28	0°♑	
	7284 Jun 01 16:27	30°♒♐			7289 Jul 11 02:56	0°♒	
opposition	7284 Jun 11 21:52	26°♐08'05	0°21'19		7289 Aug 24 02:37	0°♎	
greatest brilliancy	7284 Jun 11 22:47	26°♐07'11	-1.3m	evening set	7289 Sep 18 03:37	16°♎34'47	
min. Earth dist.	7284 Jun 14 05:43	25°♐13'12	0.67292 AU		7289 Oct 08 17:51	0°♏	
desc. node	7284 Jun 22 02:42	22°♐13'27					
direct	7284 Jul 23 11:46	16°♐07'07		conjunction	7289 Nov 05 01:43	17°♏35'06	0°46'58
	7284 Sep 15 23:15	0°♑		minimum elong	7289 Nov 05 02:51	17°♏36'55	0°47'01
	7284 Nov 11 07:07	0°♒		max. Earth dist.	7289 Nov 12 07:15	22°♏12'19	2.66788 AU
	7284 Dec 27 08:57	0°♓			7289 Nov 24 12:54	0°♐	
	7285 Feb 07 02:07	0°♑		morning rise	7289 Dec 19 22:51	16°♐07'32	
	7285 Mar 18 08:45	0°♒			7290 Jan 10 21:12	0°♑	
	7285 Apr 25 11:16	0°♓		desc. node	7290 Feb 11 21:19	20°♑13'12	
asc. node	7285 May 19 02:04	18°♓40'47			7290 Feb 27 09:01	0°♒	
evening set	7285 May 26 13:31	24°♓34'16			7290 Apr 16 00:22	0°♓	
	7285 Jun 02 11:28	0°♄			7290 Jun 03 09:17	0°♑	
	7285 Jul 11 07:35	0°♅			7290 Jul 24 17:47	0°♒	
				retrograde	7290 Oct 11 18:46	27°♒36'43	
conjunction	7285 Aug 02 15:41	16°♅45'28	0°47'15	opposition	7290 Nov 10 14:31	22°♒40'45	-4°13'41
minimum elong	7285 Aug 02 12:53	16°♅40'17	0°47'09	greatest brilliancy	7290 Nov 11 04:47	22°♒31'13	-3.0m
	7285 Aug 20 17:16	0°♍		min. Earth dist.	7290 Nov 13 05:26	21°♒58'44	0.37200 AU
max. Earth dist.	7285 Sep 16 14:16	19°♍09'58	2.48674 AU	direct	7290 Dec 10 22:23	17°♒30'38	
morning rise	7285 Oct 01 21:44	29°♍48'11		asc. node	7291 Jan 09 00:55	22°♒53'28	
	7285 Oct 02 04:37	0°♎			7291 Jan 26 06:09	0°♓	
	7285 Nov 15 23:52	0°♏			7291 Mar 19 13:33	0°♄	
	7286 Jan 02 09:21	0°♐			7291 May 04 10:53	0°♅	
	7286 Feb 22 11:18	0°♑			7291 Jun 18 19:55	0°♍	
	7286 Apr 25 06:44	0°♒			7291 Aug 03 22:49	0°♎	
desc. node	7286 May 10 00:58	5°♒02'20			7291 Sep 19 22:47	0°♏	
retrograde	7286 Jun 10 08:57	10°♒07'55		evening set	7291 Oct 27 02:29	23°♏29'38	
opposition	7286 Jul 18 09:55	1°♒40'06	-2°31'22		7291 Nov 06 09:34	0°♐	
greatest brilliancy	7286 Jul 18 22:02	1°♒28'35	-1.6m	max. Earth dist.	7291 Dec 05 00:39	18°♐08'28	2.67783 AU
	7286 Jul 22 19:06	30°♒♑					
min. Earth dist.	7286 Jul 24 11:04	29°♑22'18	0.60787 AU	conjunction	7291 Dec 11 02:17	22°♐00'10	0°10'21
direct	7286 Aug 28 11:23	21°♑47'40		minimum elong	7291 Dec 11 02:35	22°♐00'39	0°10'27
	7286 Oct 06 04:33	0°♒		behind sun begin	7291 Dec 10 12:24	21°♐38'05	
	7286 Dec 02 10:52	0°♓		behind sun end	7291 Dec 11 16:46	22°♐23'14	
	7287 Jan 15 15:18	0°♑			7291 Dec 23 15:03	0°♑	
	7287 Feb 24 19:35	0°♒		desc. node	7291 Dec 30 19:20	4°♑35'49	
	7287 Apr 04 10:05	0°♓		morning rise	7292 Jan 23 20:07	20°♑05'41	
asc. node	7287 Apr 06 01:02	1°♓16'13			7292 Feb 08 01:11	0°♒	
	7287 May 12 21:23	0°♄			7292 Mar 24 08:03	0°♓	
	7287 Jun 21 06:21	0°♅			7292 May 07 09:35	0°♑	
evening set	7287 Aug 01 16:32	0°♍18'39			7292 Jun 19 08:59	0°♒	
	7287 Aug 01 06:06	0°♍			7292 Jul 31 16:47	0°♓	
	7287 Sep 13 05:37	0°♎			7292 Sep 12 17:00	0°♄	
					7292 Oct 31 04:55	0°♅	
conjunction	7287 Sep 26 00:54	8°♎40'23	1°06'50	asc. node	7292 Nov 25 23:38	11°♎27'03	
minimum elong	7287 Sep 26 01:14	8°♎40'56	1°06'50	retrograde	7292 Dec 22 22:40	16°♎21'30	
max. Earth dist.	7287 Oct 19 17:22	24°♎26'13	2.60294 AU	min. Earth dist.	7293 Jan 18 15:05	11°♎30'25	0.42971 AU
	7287 Oct 28 04:50	0°♏		opposition	7293 Jan 26 19:10	8°♎48'02	3°45'19
morning rise	7287 Nov 14 14:22	11°♏17'39		greatest brilliancy	7293 Jan 25 14:24	9°♎12'02	-2.6m
	7287 Dec 13 21:50	0°♐		direct	7293 Feb 27 10:28	2°♎37'18	
	7288 Jan 31 04:01	0°♑			7293 May 18 09:37	0°♍	
	7288 Mar 21 11:08	0°♒			7293 Jul 10 15:29	0°♎	
desc. node	7288 Mar 26 22:44	3°♒09'22			7293 Aug 29 20:10	0°♏	
	7288 May 15 19:31	0°♓			7293 Oct 17 19:34	0°♐	
retrograde	7288 Jul 29 10:57	22°♓59'36		desc. node	7293 Nov 16 17:50	18°♐42'29	
opposition	7288 Sep 01 18:48	16°♓07'51	-5°28'38	evening set	7293 Dec 01 04:31	27°♐51'58	

	7293 Dec 04 12:49	0°♄			7298 Oct 30 10:13	0°♄	
max. Earth dist.	7293 Dec 27 06:50	14°♄39'38	2.63316 AU		7298 Dec 15 09:07	0°♄	
					7299 Feb 05 23:19	0°♄	
conjunction	7294 Jan 15 07:20	27°♄07'52	-0°30'46	retrograde	7299 Apr 20 10:12	22°♄59'06	
minimum elong	7294 Jan 15 06:25	27°♄06'22	0°30'41	opposition	7299 May 30 17:38	13°♄22'05	1°21'16
	7294 Jan 19 15:16	0°♄		greatest brilliancy	7299 May 30 18:57	13°♄20'47	-1.3m
morning rise	7294 Mar 02 06:19	28°♄10'53		min. Earth dist.	7299 May 31 13:56	13°♄02'00	0.68053 AU
	7294 Mar 04 21:26	0°♄		desc. node	7299 Jul 09 16:14	3°♄28'22	
	7294 Apr 16 07:34	0°♄		direct	7299 Jul 11 00:51	3°♄27'41	
	7294 May 27 03:40	0°♄			7299 Sep 30 13:44	0°♄	
	7294 Jul 05 20:46	0°♄			7299 Nov 21 07:00	0°♄	
	7294 Aug 14 04:45	0°♄			7300 Jan 05 09:02	0°♄	
	7294 Sep 23 07:36	0°♄			7300 Feb 15 19:35	0°♄	
asc. node	7294 Oct 13 22:11	14°♄46'42			7300 Mar 27 00:35	0°♄	
	7294 Nov 05 07:10	0°♄		evening set	7300 Apr 28 00:56	25°♄11'48	
	7294 Dec 28 08:29	0°♄			7300 May 04 02:27	0°♄	
retrograde	7295 Feb 09 00:27	10°♄37'24		asc. node	7300 Jun 05 17:36	25°♄49'04	
min. Earth dist.	7295 Mar 13 08:21	3°♄34'00	0.56420 AU		7300 Jun 11 01:12	0°♄	
greatest brilliancy	7295 Mar 18 21:47	1°♄24'46	-1.8m				
opposition	7295 Mar 20 02:10	0°♄57'13	5°03'34	conjunction	7300 Jul 07 11:12	20°♄33'59	0°22'04
	7295 Mar 22 13:43	30°♄		minimum elong	7300 Jul 07 09:04	20°♄29'53	0°21'58
direct	7295 Apr 25 10:52	22°♄45'18			7300 Jul 19 18:41	0°♄	
	7295 Jun 01 21:36	0°♄		max. Earth dist.	7300 Aug 28 19:43	29°♄50'21	2.43164 AU
	7295 Aug 05 20:13	0°♄			7300 Aug 29 01:02	0°♄	
	7295 Sep 27 18:01	0°♄		morning rise	7300 Sep 11 18:03	9°♄53'21	
desc. node	7295 Oct 04 17:29	4°♄08'57			7300 Oct 10 09:47	0°♄	
	7295 Nov 15 21:28	0°♄			7300 Nov 24 06:59	0°♄	
	7296 Jan 01 06:22	0°♄			7301 Jan 11 07:19	0°♄	
evening set	7296 Jan 08 07:15	4°♄42'14			7301 Mar 05 20:57	0°♄	
max. Earth dist.	7296 Jan 24 15:37	15°♄47'40	2.53711 AU	retrograde	7301 May 26 14:02	26°♄19'46	
	7296 Feb 14 02:45	0°♄		desc. node	7301 May 27 15:04	26°♄19'22	
				opposition	7301 Jul 04 12:58	17°♄27'01	-1°21'43
conjunction	7296 Feb 26 03:28	8°♄31'18	-1°02'23	greatest brilliancy	7301 Jul 04 17:50	17°♄22'19	-1.5m
minimum elong	7296 Feb 26 02:27	8°♄29'29	1°02'21	min. Earth dist.	7301 Jul 09 03:50	15°♄39'54	0.64096 AU
	7296 Mar 26 17:30	0°♄		direct	7301 Aug 15 01:15	7°♄25'37	
morning rise	7296 Apr 20 04:15	18°♄16'20			7301 Oct 24 22:52	0°♄	
	7296 May 05 14:03	0°♄			7301 Dec 13 19:58	0°♄	
	7296 Jun 13 07:33	0°♄			7302 Jan 25 14:45	0°♄	
	7296 Jul 21 16:44	0°♄			7302 Mar 06 06:48	0°♄	
	7296 Aug 29 15:36	0°♄			7302 Apr 13 14:28	0°♄	
asc. node	7296 Aug 30 21:11	0°♄56'01		asc. node	7302 Apr 23 17:49	7°♄59'19	
	7296 Oct 09 06:02	0°♄			7302 May 21 19:33	0°♄	
	7296 Nov 22 01:32	0°♄			7302 Jun 29 21:42	0°♄	
	7297 Jan 12 05:30	0°♄		evening set	7302 Jul 10 01:51	7°♄37'39	
retrograde	7297 Mar 17 06:09	19°♄32'11			7302 Aug 09 14:19	0°♄	
min. Earth dist.	7297 Apr 23 16:37	10°♄45'13	0.65441 AU				
opposition	7297 Apr 26 16:14	9°♄33'52	3°36'35	conjunction	7302 Sep 08 02:22	20°♄52'45	1°05'46
greatest brilliancy	7297 Apr 26 07:32	9°♄42'31	-1.4m	minimum elong	7302 Sep 08 01:36	20°♄51'25	1°05'46
direct	7297 Jun 05 05:30	0°♄14'31			7302 Sep 21 07:24	0°♄	
desc. node	7297 Aug 21 17:19	24°♄07'59		max. Earth dist.	7302 Oct 09 10:31	12°♄18'04	2.56316 AU
	7297 Sep 02 09:03	0°♄		morning rise	7302 Oct 30 21:53	26°♄34'23	
	7297 Oct 25 15:36	0°♄			7302 Nov 05 03:16	0°♄	
	7297 Dec 12 05:32	0°♄			7302 Dec 21 23:26	0°♄	
	7298 Jan 25 05:06	0°♄			7303 Feb 08 22:59	0°♄	
evening set	7298 Feb 22 17:15	20°♄32'36			7303 Apr 02 13:15	0°♄	
	7298 Mar 07 11:32	0°♄		desc. node	7303 Apr 14 13:40	6°♄19'12	
max. Earth dist.	7298 Mar 13 00:37	4°♄09'15	2.40574 AU		7303 Jun 09 06:16	0°♄	
	7298 Apr 15 19:48	0°♄		retrograde	7303 Jul 09 19:16	4°♄53'54	
					7303 Aug 07 02:24	30°♄	
conjunction	7298 Apr 22 21:53	5°♄30'48	-0°53'26	opposition	7303 Aug 14 21:04	27°♄18'00	-4°24'23
minimum elong	7298 Apr 23 00:37	5°♄36'09	0°53'29	greatest brilliancy	7303 Aug 16 01:51	26°♄51'54	-1.9m
	7298 May 24 01:43	0°♄		min. Earth dist.	7303 Aug 22 20:33	24°♄24'48	0.53874 AU
	7298 Jul 01 02:09	0°♄		direct	7303 Sep 23 09:17	18°♄03'29	
morning rise	7298 Jul 02 05:55	0°♄54'29			7303 Nov 08 11:29	0°♄	
asc. node	7298 Jul 18 19:12	13°♄50'28			7303 Dec 30 06:48	0°♄	
	7298 Aug 08 18:15	0°♄			7304 Feb 10 11:43	0°♄	
	7298 Sep 17 22:16	0°♄		asc. node	7304 Mar 10 16:58	22°♄03'41	

	7304 Mar 21 01:54	0°♂	morning rise	7309 Feb 15 12:47	12°♂41'47	
	7304 Apr 29 06:06	0°♂		7309 Mar 13 01:04	0°♂	
	7304 Jun 08 06:15	0°♂		7309 Apr 24 23:45	0°♂	
	7304 Jul 19 20:22	0°♂		7309 Jun 05 11:11	0°♂	
evening set	7304 Sep 01 22:00	0°♂23'29		7309 Jul 15 21:09	0°♂	
	7304 Sep 01 08:05	0°♂		7309 Aug 25 00:15	0°♂	
	7304 Oct 16 15:11	0°♂		7309 Oct 05 08:50	0°♂	
			asc. node	7309 Oct 31 16:24	17°♂44'28	
conjunction	7304 Oct 22 01:06	3°♂31'09 0°57'31		7309 Nov 20 18:38	0°♂	
minimum elong	7304 Oct 22 02:13	3°♂32'57 0°57'33	retrograde	7310 Jan 24 04:51	22°♂17'18	
max. Earth dist.	7304 Nov 04 08:25	12°♂07'01 2.64899 AU	min. Earth dist.	7310 Feb 23 04:14	16°♂05'48	0.51364 AU
	7304 Dec 02 07:33	0°♂	greatest brilliancy	7310 Mar 01 16:01	13°♂40'26	-2.1m
morning rise	7304 Dec 07 05:59	3°♂07'59	opposition	7310 Mar 03 02:40	13°♂07'59	5°07'01
	7305 Jan 18 21:26	0°♂	direct	7310 Apr 06 17:59	5°♂36'21	
desc. node	7305 Mar 01 11:27	25°♂52'19		7310 Jun 22 05:45	0°♂	
	7305 Mar 08 04:01	0°♂		7310 Aug 16 15:36	0°♂	
	7305 Apr 26 14:19	0°♂		7310 Oct 06 12:20	0°♂	
	7305 Jun 18 09:23	0°♂	desc. node	7310 Oct 22 06:39	9°♂36'48	
retrograde	7305 Sep 10 11:10	28°♂54'04		7310 Nov 23 22:56	0°♂	
opposition	7305 Oct 11 17:47	23°♂24'05 -5°57'01	evening set	7310 Dec 24 22:16	19°♂56'40	
greatest brilliancy	7305 Oct 13 07:36	22°♂56'06 -2.7m		7311 Jan 09 03:57	0°♂	
min. Earth dist.	7305 Oct 18 16:16	21°♂21'57 0.40477 AU	max. Earth dist.	7311 Jan 13 13:58	2°♂56'50	2.58028 AU
direct	7305 Nov 13 23:02	17°♂00'07				
	7305 Dec 30 14:59	0°♂	conjunction	7311 Feb 09 18:06	21°♂24'09 -0°52'38	
asc. node	7306 Jan 26 15:57	15°♂07'03	minimum elong	7311 Feb 09 16:48	21°♂21'55 0°52'34	
	7306 Feb 18 18:46	0°♂		7311 Feb 22 03:07	0°♂	
	7306 Apr 03 05:52	0°♂	morning rise	7311 Mar 31 14:40	26°♂46'56	
	7306 May 16 00:11	0°♂		7311 Apr 05 00:18	0°♂	
	7306 Jun 28 15:57	0°♂		7311 May 15 04:31	0°♂	
	7306 Aug 12 17:04	0°♂		7311 Jun 23 05:30	0°♂	
	7306 Sep 28 01:15	0°♂		7311 Jul 31 21:11	0°♂	
evening set	7306 Oct 13 14:52	9°♂56'45		7311 Sep 09 02:43	0°♂	
	7306 Nov 14 04:01	0°♂	asc. node	7311 Sep 18 13:23	7°♂03'32	
max. Earth dist.	7306 Nov 27 05:44	8°♂17'46 2.68061 AU		7311 Oct 20 04:55	0°♂	
				7311 Dec 04 10:56	0°♂	
conjunction	7306 Nov 28 08:19	8°♂59'56 0°25'36		7312 Feb 02 15:25	0°♂	
minimum elong	7306 Nov 28 09:03	9°♂01'06 0°25'41	retrograde	7312 Mar 04 11:03	5°♂35'44	
	7306 Dec 31 08:57	0°♂		7312 Apr 02 06:21	30°♂	
morning rise	7307 Jan 11 03:46	6°♂53'06	min. Earth dist.	7312 Apr 09 01:43	27°♂24'32	0.62635 AU
desc. node	7307 Jan 17 09:24	10°♂52'28	opposition	7312 Apr 13 13:16	25°♂37'49	4°18'49
	7307 Feb 16 02:42	0°♂	greatest brilliancy	7312 Apr 12 21:29	25°♂53'30	-1.5m
	7307 Apr 03 02:20	0°♂	direct	7312 May 22 00:42	16°♂40'07	
	7307 May 18 07:35	0°♂		7312 Jul 15 02:21	0°♂	
	7307 Jul 02 00:35	0°♂	desc. node	7312 Sep 08 06:49	27°♂09'45	
	7307 Aug 16 03:03	0°♂		7312 Sep 13 10:12	0°♂	
	7307 Oct 04 15:47	0°♂		7312 Nov 03 12:26	0°♂	
retrograde	7307 Nov 30 03:17	17°♂51'57		7312 Dec 20 11:51	0°♂	
asc. node	7307 Dec 14 17:04	16°♂22'51		7313 Feb 02 09:03	0°♂	
min. Earth dist.	7307 Dec 26 06:38	13°♂30'40 0.38519 AU	evening set	7313 Feb 04 02:14	1°♂12'42	
opposition	7308 Jan 01 04:09	11°♂48'02 1°16'12	max. Earth dist.	7313 Feb 17 21:18	11°♂03'28	2.45859 AU
greatest brilliancy	7307 Dec 31 20:11	11°♂53'51 -2.9m		7313 Mar 15 18:06	0°♂	
direct	7308 Jan 30 23:57	6°♂32'59				
	7308 Apr 10 15:02	0°♂	conjunction	7313 Mar 30 04:52	10°♂50'05 -1°05'00	
	7308 Jun 01 22:15	0°♂	minimum elong	7313 Mar 30 05:46	10°♂51'47 1°05'00	
	7308 Jul 21 00:52	0°♂		7313 Apr 24 06:23	0°♂	
	7308 Sep 07 14:24	0°♂		7313 Jun 01 15:56	0°♂	
	7308 Oct 25 19:58	0°♂	morning rise	7313 Jun 02 00:43	0°♂17'18	
evening set	7308 Nov 18 05:13	14°♂42'01		7313 Jul 09 18:37	0°♂	
desc. node	7308 Dec 04 07:32	24°♂54'34	asc. node	7313 Aug 05 11:57	20°♂47'57	
	7308 Dec 12 06:55	0°♂		7313 Aug 17 11:41	0°♂	
max. Earth dist.	7308 Dec 19 02:14	4°♂21'44 2.65702 AU		7313 Sep 26 17:06	0°♂	
				7313 Nov 08 11:15	0°♂	
conjunction	7309 Jan 01 22:17	13°♂17'30 -0°15'05		7313 Dec 25 11:17	0°♂	
minimum elong	7309 Jan 01 21:49	13°♂16'45 0°14'59		7314 Feb 21 18:02	0°♂	
behind sun begin	7309 Jan 01 15:07	13°♂05'54	retrograde	7314 Apr 08 04:09	10°♂26'05	
behind sun end	7309 Jan 02 04:32	13°♂27'37	opposition	7314 May 18 16:10	0°♂37'53	2°17'18
	7309 Jan 27 11:05	0°♂	min. Earth dist.	7314 May 18 00:54	0°♂53'03	0.67816 AU

greatest brilliancy	7314 May 18 15:17	0°♊38'46	-1.3m		7319 Jun 17 05:09	0°♏	
	7314 May 20 06:19	30°♋♌			7319 Jul 28 08:31	0°♎	
direct	7314 Jun 28 10:51	20°♌54'04		evening set	7319 Aug 14 18:09	12°♎16'56	
desc. node	7314 Jul 27 06:44	25°♌16'09			7319 Sep 09 11:00	0°♎	
	7314 Aug 10 19:56	0°♊					
	7314 Oct 12 01:03	0°♊		conjunction	7319 Oct 06 22:45	18°♎27'09	1°04'42
	7314 Nov 30 12:18	0°♊		minimum elong	7319 Oct 06 23:30	18°♎28'23	1°04'44
	7315 Jan 14 00:24	0°♋			7319 Oct 24 11:58	0°♌	
	7315 Feb 24 08:06	0°♎		max. Earth dist.	7319 Oct 26 17:33	1°♌27'28	2.62179 AU
evening set	7315 Apr 01 07:49	27°♎28'44		morning rise	7319 Nov 24 02:01	19°♌46'11	
	7315 Apr 04 13:36	0°♋			7319 Dec 10 03:33	0°♊	
	7315 May 12 16:25	0°♌			7320 Jan 27 02:13	0°♊	
					7320 Mar 16 11:32	0°♊	
conjunction	7315 Jun 08 09:45	21°♌09'23	-0°10'47	desc. node	7320 Mar 18 01:55	0°♊57'03	
minimum elong	7315 Jun 08 10:56	21°♌11'42	0°10'51		7320 May 07 21:18	0°♋	
behind sun begin	7315 Jun 07 12:01	20°♌26'30			7320 Jul 13 11:13	0°♎	
behind sun end	7315 Jun 09 09:50	21°♌56'54		retrograde	7320 Aug 13 08:22	5°♎05'36	
	7315 Jun 19 15:03	0°♎			7320 Sep 11 12:44	30°♋♋	
asc. node	7315 Jun 23 11:08	3°♎00'49		opposition	7320 Sep 15 13:53	28°♋41'48	-5°54'37
max. Earth dist.	7315 Jul 22 20:15	25°♎50'01	2.37936 AU	greatest brilliancy	7320 Sep 17 09:07	28°♋06'08	-2.4m
	7315 Jul 28 06:52	0°♏		min. Earth dist.	7320 Sep 24 02:21	25°♋54'08	0.45579 AU
morning rise	7315 Aug 18 22:09	16°♏20'05		direct	7320 Oct 21 22:27	20°♋52'52	
	7315 Sep 06 10:47	0°♎			7320 Nov 29 08:01	0°♎	
	7315 Oct 18 18:19	0°♎			7321 Jan 20 18:54	0°♋	
	7315 Dec 02 20:28	0°♌		asc. node	7321 Feb 12 10:09	15°♋39'13	
	7316 Jan 20 21:14	0°♊			7321 Mar 04 07:55	0°♌	
	7316 Mar 19 10:10	0°♊			7321 Apr 14 03:34	0°♎	
retrograde	7316 May 11 22:56	13°♊15'50			7321 May 25 08:40	0°♏	
desc. node	7316 Jun 13 05:35	6°♊51'46			7321 Jul 06 22:24	0°♎	
opposition	7316 Jun 20 14:34	4°♊02'48	-0°15'36		7321 Aug 20 04:49	0°♎	
greatest brilliancy	7316 Jun 20 15:14	4°♊02'09	-1.4m	evening set	7321 Sep 28 08:31	25°♎41'00	
min. Earth dist.	7316 Jun 23 18:22	2°♊48'42	0.66430 AU		7321 Oct 05 00:41	0°♌	
	7316 Jul 01 05:00	30°♋♊					
direct	7316 Aug 01 05:57	23°♊59'57		conjunction	7321 Nov 14 08:03	25°♌49'28	0°39'36
	7316 Sep 03 21:36	0°♊		minimum elong	7321 Nov 14 09:05	25°♌51'08	0°39'40
	7316 Nov 05 19:09	0°♊		max. Earth dist.	7321 Nov 18 12:31	28°♌29'20	2.67475 AU
	7316 Dec 22 21:20	0°♋			7321 Nov 20 21:33	0°♊	
	7317 Feb 02 22:16	0°♎		morning rise	7321 Dec 28 16:46	23°♊59'33	
	7317 Mar 14 07:39	0°♋			7322 Jan 07 04:01	0°♊	
	7317 Apr 21 11:34	0°♌		desc. node	7322 Feb 02 23:32	17°♊01'52	
asc. node	7317 May 10 09:19	14°♌56'39			7322 Feb 23 08:21	0°♊	
	7317 May 29 12:55	0°♎			7322 Apr 11 06:47	0°♋	
evening set	7317 Jun 13 01:45	11°♎19'18			7322 May 28 05:20	0°♎	
	7317 Jul 07 10:22	0°♏			7322 Jul 15 02:22	0°♋	
	7317 Aug 16 21:40	0°♎			7322 Sep 06 05:03	0°♌	
				retrograde	7322 Oct 31 01:58	15°♌57'48	
conjunction	7317 Aug 17 10:40	0°♎23'32	0°56'51	min. Earth dist.	7322 Nov 29 10:53	11°♌07'57	0.36699 AU
minimum elong	7317 Aug 17 08:28	0°♎19'32	0°56'47	opposition	7322 Nov 30 04:47	10°♌56'01	-2°21'52
max. Earth dist.	7317 Sep 26 06:41	28°♎31'46	2.51595 AU	greatest brilliancy	7322 Nov 30 06:18	10°♌55'00	-3.0m
	7317 Sep 28 09:55	0°♎		direct	7322 Dec 29 15:33	6°♌02'35	
morning rise	7317 Oct 13 15:47	10°♎23'25		asc. node	7322 Dec 31 09:24	6°♌03'50	
	7317 Nov 12 04:03	0°♌			7323 Mar 09 00:40	0°♎	
	7317 Dec 29 06:29	0°♊			7323 Apr 27 18:37	0°♏	
	7318 Feb 17 08:40	0°♊			7323 Jun 13 16:14	0°♎	
	7318 Apr 15 04:26	0°♊			7323 Jul 30 14:15	0°♎	
desc. node	7318 May 01 03:56	6°♊57'17			7323 Sep 16 01:04	0°♌	
retrograde	7318 Jun 21 00:26	18°♊58'05			7323 Nov 02 17:22	0°♊	
opposition	7318 Jul 28 11:10	10°♊46'35	-3°12'43	evening set	7323 Nov 05 05:15	1°♊34'22	
greatest brilliancy	7318 Jul 29 04:44	10°♊30'07	-1.7m	max. Earth dist.	7323 Dec 11 04:50	24°♊22'11	2.67273 AU
min. Earth dist.	7318 Aug 04 06:31	8°♊13'34	0.58577 AU				
direct	7318 Sep 07 03:10	1°♊03'19		conjunction	7323 Dec 19 23:44	29°♊58'57	0°01'02
	7318 Nov 25 17:21	0°♋		minimum elong	7323 Dec 19 23:46	29°♊59'00	0°01'07
	7319 Jan 10 11:40	0°♎		behind sun begin	7323 Dec 19 05:25	29°♊29'40	
	7319 Feb 20 04:18	0°♋		behind sun end	7323 Dec 20 18:08	0°♊28'22	
asc. node	7319 Mar 28 09:41	27°♋56'49			7323 Dec 20 00:24	0°♊	
	7319 Mar 31 01:00	0°♌		desc. node	7323 Dec 21 21:21	1°♊11'56	
	7319 May 08 16:33	0°♎		morning rise	7324 Feb 01 21:26	28°♊23'28	

	7324 Feb 04 08:19	0°♊		direct	7329 Jun 14 11:29	8°♎10'17	
	7324 Mar 20 08:48	0°♋		desc. node	7329 Aug 12 20:33	23°♎40'01	
	7324 May 02 23:57	0°♌			7329 Aug 26 16:02	0°♎	
	7324 Jun 14 08:20	0°♍			7329 Oct 21 02:16	0°♏	
	7324 Jul 25 19:33	0°♎			7329 Dec 08 06:35	0°♐	
	7324 Sep 05 08:41	0°♏			7330 Jan 21 10:36	0°♑	
	7324 Oct 19 14:16	0°♐			7330 Mar 03 17:51	0°♒	
asc. node	7324 Nov 17 08:35	16°♐32'12		evening set	7330 Mar 07 23:01	3°♒09'27	
	7324 Dec 25 15:58	0°♑		max. Earth dist.	7330 Apr 05 17:18	25°♒05'40	2.38001 AU
retrograde	7325 Jan 05 02:28	0°♑47'44			7330 Apr 12 01:08	0°♓	
	7325 Jan 15 10:31	30°♑♎					
min. Earth dist.	7325 Feb 01 19:24	25°♎30'08	0.45914 AU	conjunction	7330 May 09 11:43	21°♓30'35	-0°41'05
greatest brilliancy	7325 Feb 08 20:07	23°♎02'43	-2.4m	minimum elong	7330 May 09 14:54	21°♓36'51	0°41'07
opposition	7325 Feb 10 06:40	22°♎32'21	4°32'39		7330 May 20 05:39	0°♎	
direct	7325 Mar 14 23:09	15°♎50'38			7330 Jun 27 04:53	0°♏	
	7325 May 07 16:05	0°♑		asc. node	7330 Jul 10 03:14	10°♏08'06	
	7325 Jul 04 19:30	0°♎		morning rise	7330 Jul 20 23:24	18°♏33'53	
	7325 Aug 25 09:01	0°♎			7330 Aug 04 19:56	0°♎	
	7325 Oct 13 22:01	0°♎			7330 Sep 13 22:41	0°♑	
desc. node	7325 Nov 07 20:46	15°♎28'39			7330 Oct 26 07:19	0°♎	
	7325 Nov 30 20:51	0°♏			7330 Dec 10 19:16	0°♎	
evening set	7325 Dec 10 08:04	6°♏03'15			7331 Jan 30 14:00	0°♎	
max. Earth dist.	7326 Jan 03 00:30	21°♏25'30	2.61635 AU		7331 Apr 18 18:06	0°♏	
	7326 Jan 16 00:18	0°♐		retrograde	7331 Apr 29 03:20	0°♏38'28	
					7331 May 09 04:36	30°♑♎	
conjunction	7326 Jan 24 21:36	5°♐55'53	-0°39'26	opposition	7331 Jun 08 06:29	21°♎09'11	0°46'34
minimum elong	7326 Jan 24 20:29	5°♐54'01	0°39'21	greatest brilliancy	7331 Jun 08 07:53	21°♎07'49	-1.3m
	7326 Mar 01 04:04	0°♋		min. Earth dist.	7331 Jun 09 22:54	20°♎29'22	0.67763 AU
morning rise	7326 Mar 12 23:06	8°♋14'43		desc. node	7331 Jun 30 19:19	13°♎27'07	
	7326 Apr 12 09:46	0°♌		direct	7331 Jul 19 18:06	11°♎10'33	
	7326 May 23 00:04	0°♍			7331 Sep 23 09:08	0°♏	
	7326 Jul 01 11:02	0°♎			7331 Nov 16 12:21	0°♐	
	7326 Aug 09 12:10	0°♏			7332 Jan 01 04:56	0°♑	
	7326 Sep 18 04:43	0°♐			7332 Feb 11 20:34	0°♒	
asc. node	7326 Oct 05 07:37	12°♐31'27			7332 Mar 22 03:10	0°♓	
	7326 Oct 30 04:51	0°♑			7332 Apr 29 05:38	0°♎	
	7326 Dec 17 15:44	0°♎		evening set	7332 May 14 13:22	12°♎08'17	
retrograde	7327 Feb 18 20:54	20°♎26'41		asc. node	7332 May 27 03:23	22°♎05'03	
min. Earth dist.	7327 Mar 24 10:08	12°♎57'18	0.58869 AU		7332 Jun 06 04:49	0°♏	
greatest brilliancy	7327 Mar 29 09:15	11°♎00'34	-1.7m		7332 Jul 14 22:43	0°♎	
opposition	7327 Mar 30 09:08	10°♎37'07	4°51'35				
direct	7327 May 06 13:38	2°♎06'53		conjunction	7332 Jul 23 05:46	6°♎17'14	0°37'42
	7327 Jul 30 11:28	0°♎		minimum elong	7332 Jul 23 02:53	6°♎11'48	0°37'36
	7327 Sep 23 06:01	0°♎			7332 Aug 24 05:32	0°♑	
desc. node	7327 Sep 25 20:49	1°♎31'20		max. Earth dist.	7332 Sep 09 20:48	11°♑58'31	2.46228 AU
	7327 Nov 11 23:59	0°♏		morning rise	7332 Sep 24 03:23	22°♑03'06	
	7327 Dec 28 13:58	0°♐			7332 Oct 05 14:03	0°♎	
evening set	7328 Jan 18 13:54	14°♐08'35			7332 Nov 19 08:13	0°♎	
max. Earth dist.	7328 Feb 02 09:59	24°♐22'35	2.51017 AU		7333 Jan 05 21:26	0°♎	
	7328 Feb 10 10:45	0°♑			7333 Feb 26 18:11	0°♏	
					7333 May 05 19:18	0°♐	
conjunction	7328 Mar 08 23:38	19°♑43'11	-1°05'37	desc. node	7333 May 17 17:51	2°♐50'39	
minimum elong	7328 Mar 08 23:04	19°♑42'09	1°05'36	retrograde	7333 Jun 04 09:42	4°♐35'45	
	7328 Mar 22 23:42	0°♌			7333 Jul 01 15:23	30°♑♏	
	7328 May 01 17:15	0°♍		opposition	7333 Jul 12 21:36	25°♏56'13	-2°01'50
morning rise	7328 May 05 02:38	2°♓36'31		greatest brilliancy	7333 Jul 13 06:16	25°♏47'55	-1.5m
	7328 Jun 09 07:46	0°♎		min. Earth dist.	7333 Jul 18 08:06	23°♏51'17	0.62388 AU
	7328 Jul 17 14:18	0°♏		direct	7333 Aug 23 05:19	15°♏58'32	
asc. node	7328 Aug 22 04:21	27°♏31'37			7333 Oct 15 02:48	0°♐	
	7328 Aug 25 10:13	0°♎			7333 Dec 07 10:06	0°♑	
	7328 Oct 04 19:46	0°♑			7334 Jan 19 23:52	0°♒	
	7328 Nov 17 02:09	0°♎			7334 Feb 28 23:00	0°♓	
	7329 Jan 05 01:16	0°♎			7334 Apr 08 10:26	0°♎	
retrograde	7329 Mar 25 22:32	27°♎35'18		asc. node	7334 Apr 14 02:19	4°♎26'41	
min. Earth dist.	7329 May 03 07:21	18°♎30'31	0.66570 AU		7334 May 16 18:27	0°♏	
opposition	7329 May 05 10:31	17°♎39'31	3°08'56		7334 Jun 24 23:17	0°♎	
greatest brilliancy	7329 May 05 05:13	17°♎44'49	-1.3m	evening set	7334 Jul 23 19:44	21°♎21'25	

	7334 Aug 04 18:31	0°♎			7339 Aug 07 09:58	0°♊
	7334 Sep 16 13:40	0°♊			7339 Sep 21 05:09	0°♊
					7339 Nov 17 11:13	0°♊
conjunction	7334 Sep 19 03:16	1°♊45'16	1°07'10	asc. node	7339 Dec 05 01:15	4°♊17'37
minimum elong	7334 Sep 19 03:11	1°♊45'09	1°07'11	retrograde	7339 Dec 14 16:43	4°♊58'05
max. Earth dist.	7334 Oct 16 01:33	19°♊52'44	2.58607 AU	min. Earth dist.	7340 Jan 09 21:08	0°♊24'25 0.40780 AU
	7334 Oct 31 09:55	0°♊			7340 Jan 11 04:59	30°♊
morning rise	7334 Nov 09 00:40	5°♊37'12		greatest brilliancy	7340 Jan 16 11:24	28°♊20'24 -2.7m
	7334 Dec 17 02:48	0°♊		opposition	7340 Jan 17 08:32	28°♊03'42 2°52'41
	7335 Feb 03 14:47	0°♊		direct	7340 Feb 17 03:32	22°♊18'54
	7335 Mar 26 16:54	0°♊			7340 Mar 25 01:51	0°♊
desc. node	7335 Apr 04 15:43	4°♊59'46			7340 May 24 22:17	0°♊
	7335 May 24 05:28	0°♊			7340 Jul 15 00:32	0°♊
retrograde	7335 Jul 21 15:36	15°♊19'20			7340 Sep 02 10:09	0°♊
opposition	7335 Aug 25 18:47	8°♊06'41	-5°02'39		7340 Oct 21 01:16	0°♊
greatest brilliancy	7335 Aug 27 06:08	7°♊35'27	-2.0m	desc. node	7340 Nov 24 10:32	21°♊34'49
min. Earth dist.	7335 Sep 03 05:01	5°♊08'30	0.51009 AU	evening set	7340 Nov 26 04:25	22°♊41'10
	7335 Sep 23 02:38	30°♊			7340 Dec 07 16:12	0°♊
direct	7335 Oct 03 09:40	29°♊15'42		max. Earth dist.	7340 Dec 24 10:13	10°♊45'46 2.64488 AU
	7335 Oct 13 19:31	0°♊				
	7335 Dec 21 19:53	0°♊		conjunction	7341 Jan 10 01:16	21°♊34'50 -0°24'19
	7336 Feb 03 18:27	0°♊		minimum elong	7341 Jan 10 00:32	21°♊33'38 0°24'14
asc. node	7336 Mar 01 01:26	19°♊27'07			7341 Jan 22 20:14	0°♊
	7336 Mar 15 00:54	0°♊		morning rise	7341 Feb 24 07:40	21°♊48'21
	7336 Apr 23 15:03	0°♊			7341 Mar 08 06:39	0°♊
	7336 Jun 02 22:45	0°♊			7341 Apr 19 23:03	0°♊
	7336 Jul 14 19:10	0°♊			7341 May 31 02:08	0°♊
	7336 Aug 27 12:02	0°♊			7341 Jul 10 02:19	0°♊
evening set	7336 Sep 11 22:31	10°♊18'34			7341 Aug 18 17:30	0°♊
	7336 Oct 11 22:30	0°♊			7341 Sep 28 05:41	0°♊
				asc. node	7341 Oct 21 23:28	16°♊41'34
conjunction	7336 Oct 30 17:57	12°♊09'37	0°51'42		7341 Nov 11 04:24	0°♊
minimum elong	7336 Oct 30 19:07	12°♊11'30	0°51'44		7342 Jan 10 21:34	0°♊
max. Earth dist.	7336 Nov 09 16:43	18°♊32'39	2.66049 AU	retrograde	7342 Feb 03 01:20	3°♊31'38
	7336 Nov 27 15:27	0°♊			7342 Feb 25 04:50	30°♊
morning rise	7336 Dec 15 03:37	11°♊06'36		min. Earth dist.	7342 Mar 06 08:02	26°♊50'36 0.54260 AU
	7337 Jan 14 01:40	0°♊		greatest brilliancy	7342 Mar 12 08:07	24°♊33'01 -1.9m
desc. node	7337 Feb 19 13:50	22°♊56'00		opposition	7342 Mar 13 15:40	24°♊02'46 5°08'50
	7337 Mar 02 20:50	0°♊		direct	7342 Apr 18 07:14	16°♊07'26
	7337 Apr 20 04:29	0°♊			7342 Jun 11 15:13	0°♊
	7337 Jun 09 01:40	0°♊			7342 Aug 10 08:12	0°♊
	7337 Aug 04 06:54	0°♊			7342 Oct 01 07:31	0°♊
retrograde	7337 Sep 28 07:28	14°♊55'04		desc. node	7342 Oct 12 10:08	6°♊40'39
opposition	7337 Oct 28 13:22	9°♊49'06	-5°14'09		7342 Nov 19 04:19	0°♊
greatest brilliancy	7337 Oct 29 15:47	9°♊30'49	-2.9m	evening set	7343 Jan 02 13:34	28°♊41'47
min. Earth dist.	7337 Nov 02 11:48	8°♊27'26	0.38345 AU		7343 Jan 04 12:41	0°♊
direct	7337 Nov 29 00:55	4°♊10'45		max. Earth dist.	7343 Jan 20 05:51	10°♊32'47 2.55735 AU
asc. node	7338 Jan 17 02:02	18°♊11'59			7343 Feb 17 11:28	0°♊
	7338 Feb 07 14:04	0°♊				
	7338 Mar 26 08:49	0°♊		conjunction	7343 Feb 19 09:16	1°♊20'19 -0°58'49
	7338 May 09 13:14	0°♊		minimum elong	7343 Feb 19 08:04	1°♊18'12 0°58'46
	7338 Jun 23 00:23	0°♊			7343 Mar 31 06:13	0°♊
	7338 Aug 07 13:53	0°♊		morning rise	7343 Apr 12 08:30	8°♊56'45
	7338 Sep 23 05:45	0°♊			7343 May 10 06:53	0°♊
evening set	7338 Oct 21 23:35	18°♊15'28			7343 Jun 18 03:54	0°♊
	7338 Nov 09 12:26	0°♊			7343 Jul 26 15:41	0°♊
max. Earth dist.	7338 Dec 02 07:20	14°♊26'46	2.68011 AU		7343 Sep 03 16:18	0°♊
				asc. node	7343 Sep 08 22:38	3°♊58'20
conjunction	7338 Dec 06 05:47	16°♊56'46	0°16'47		7343 Oct 14 09:26	0°♊
minimum elong	7338 Dec 06 06:17	16°♊57'33	0°16'52		7343 Nov 27 14:20	0°♊
	7338 Dec 26 17:45	0°♊			7344 Jan 19 21:54	0°♊
desc. node	7339 Jan 07 11:56	7°♊31'28		retrograde	7344 Mar 12 11:18	14°♊10'59
morning rise	7339 Jan 18 22:59	14°♊53'13		min. Earth dist.	7344 Apr 18 02:58	5°♊38'58 0.64313 AU
	7339 Feb 11 07:25	0°♊		opposition	7344 Apr 21 18:15	4°♊12'03 3°55'14
	7339 Mar 28 21:40	0°♊		greatest brilliancy	7344 Apr 21 06:39	4°♊23'37 -1.4m
	7339 May 12 10:57	0°♊			7344 May 02 21:11	30°♊
	7339 Jun 25 02:35	0°♊		direct	7344 May 30 20:20	25°♊01'36

	7344 Jun 30 17:51	0°♌			7349 Aug 12 02:31	0°♏	
desc. node	7344 Aug 29 09:56	25°♌30'01					
	7344 Sep 06 23:07	0°♏	conjunction	7349 Aug 30 01:55	12°♏51'16	1°03'04	
	7344 Oct 29 06:57	0°♐	minimum elong	7349 Aug 30 00:31	12°♏48'49	1°03'02	
	7344 Dec 15 15:57	0°♑		7349 Sep 23 16:01	0°♑		
	7345 Jan 28 15:48	0°♒	max. Earth dist.	7349 Oct 04 01:44	7°♑06'38	2.54289 AU	
evening set	7345 Feb 14 21:43	12°♒18'15	morning rise	7349 Oct 23 17:03	20°♑18'28		
max. Earth dist.	7345 Mar 01 22:28	23°♒16'08		7349 Nov 07 09:31	0°♌		
	7345 Mar 11 00:38	0°♑		7349 Dec 24 06:47	0°♏		
				7350 Feb 11 15:04	0°♐		
conjunction	7345 Apr 12 15:51	24°♑44'08	-0°59'59	7350 Apr 06 13:30	0°♑		
minimum elong	7345 Apr 12 17:50	24°♑47'58	1°00'00	7350 Apr 21 06:51	7°♑17'57		
	7345 Apr 19 11:28	0°♒	retrograde	7350 Jul 01 09:42	28°♑18'26		
	7345 May 27 19:16	0°♑	opposition	7350 Aug 07 02:51	20°♑25'48	-3°54'12	
morning rise	7345 Jun 19 08:20	17°♑47'29	greatest brilliancy	7350 Aug 08 02:39	20°♑03'51	-1.8m	
	7345 Jul 04 20:34	0°♑	min. Earth dist.	7350 Aug 14 14:35	17°♑40'13	0.56065 AU	
asc. node	7345 Jul 26 20:57	17°♑11'17	direct	7350 Sep 16 05:07	10°♑56'17		
	7345 Aug 12 12:18	0°♑		7350 Nov 16 06:06	0°♒		
	7345 Sep 21 15:26	0°♏		7351 Jan 03 18:04	0°♑		
	7345 Nov 03 03:53	0°♑		7351 Feb 14 05:46	0°♒		
	7345 Dec 19 09:07	0°♌	asc. node	7351 Mar 18 18:32	24°♒49'23		
	7346 Feb 11 12:17	0°♏		7351 Mar 25 11:28	0°♑		
retrograde	7346 Apr 15 18:16	18°♏08'13		7351 May 03 09:12	0°♑		
opposition	7346 May 26 04:21	8°♏25'53	1°44'54	7351 Jun 12 02:59	0°♑		
greatest brilliancy	7346 May 26 04:59	8°♏25'15	-1.3m	7351 Jul 23 10:44	0°♏		
min. Earth dist.	7346 May 26 09:10	8°♏21'07	0.68074 AU	evening set	7351 Aug 25 21:53	23°♏19'37	
	7346 Jun 21 08:14	30°♌		7351 Sep 04 16:54	0°♑		
direct	7346 Jul 06 06:28	28°♌35'36					
desc. node	7346 Jul 17 09:02	29°♌18'44	conjunction	7351 Oct 16 06:48	27°♑40'58	1°00'59	
	7346 Jul 22 00:03	0°♏	minimum elong	7351 Oct 16 07:49	27°♑42'38	1°01'02	
	7346 Oct 05 09:58	0°♐		7351 Oct 19 19:53	0°♌		
	7346 Nov 25 03:56	0°♑	max. Earth dist.	7351 Nov 01 10:03	8°♌10'59	2.63784 AU	
	7347 Jan 09 01:14	0°♒	morning rise	7351 Dec 02 06:14	27°♌58'07		
	7347 Feb 19 11:47	0°♑		7351 Dec 05 10:54	0°♏		
	7347 Mar 30 17:40	0°♒		7352 Jan 22 03:45	0°♐		
evening set	7347 Apr 16 13:03	13°♒10'08	desc. node	7352 Mar 08 04:37	28°♐23'11		
	7347 May 07 20:05	0°♑		7352 Mar 10 20:15	0°♑		
asc. node	7347 Jun 13 19:10	29°♑14'09		7352 Apr 30 07:49	0°♒		
	7347 Jun 14 18:30	0°♑		7352 Jun 25 13:22	0°♑		
			retrograde	7352 Aug 28 13:21	18°♑26'01		
conjunction	7347 Jun 25 12:36	8°♑25'48	0°08'23	opposition	7352 Sep 29 17:17	12°♑32'17	-6°05'03
minimum elong	7347 Jun 25 11:42	8°♑24'03	0°08'17	greatest brilliancy	7352 Oct 01 11:50	11°♑59'05	-2.5m
behind sun begin	7347 Jun 24 09:27	7°♑32'46		min. Earth dist.	7352 Oct 07 16:00	10°♑04'49	0.42622 AU
behind sun end	7347 Jun 26 13:57	9°♑15'18		direct	7352 Nov 03 09:27	5°♑28'52	
	7347 Jul 23 10:25	0°♑		7353 Jan 10 00:45	0°♒		
max. Earth dist.	7347 Aug 17 13:05	18°♑55'03	2.40692 AU	asc. node	7353 Feb 02 17:32	15°♒03'12	
	7347 Sep 01 14:22	0°♏		7353 Feb 24 13:01	0°♑		
morning rise	7347 Sep 02 10:46	0°♏37'10		7353 Apr 07 13:26	0°♑		
	7347 Oct 13 21:03	0°♑		7353 May 19 12:11	0°♑		
	7347 Nov 27 18:09	0°♌		7353 Jul 01 14:04	0°♏		
	7348 Jan 15 01:22	0°♏		7353 Aug 15 05:22	0°♑		
	7348 Mar 10 01:47	0°♐		7353 Sep 30 06:54	0°♌		
retrograde	7348 May 20 04:53	21°♐09'56	evening set	7353 Oct 07 04:21	4°♌25'40		
desc. node	7348 Jun 03 07:52	19°♐54'47		7353 Nov 16 06:27	0°♏		
opposition	7348 Jun 28 12:08	12°♐07'42	-0°53'49				
greatest brilliancy	7348 Jun 28 14:52	12°♐05'03	-1.4m	conjunction	7353 Nov 22 09:23	3°♏53'23	0°31'37
min. Earth dist.	7348 Jul 02 11:46	10°♐34'48	0.65266 AU	minimum elong	7353 Nov 22 10:16	3°♏54'47	0°31'41
direct	7348 Aug 09 02:43	2°♐04'47		max. Earth dist.	7353 Nov 23 14:17	4°♏39'15	2.67908 AU
	7348 Oct 29 13:32	0°♑			7354 Jan 02 11:56	0°♐	
	7348 Dec 17 04:04	0°♒		morning rise	7354 Jan 05 09:16	1°♐50'19	
	7349 Jan 28 16:03	0°♑	desc. node	7354 Jan 24 02:23	13°♐46'17		
	7349 Mar 09 05:47	0°♒		7354 Feb 18 10:15	0°♑		
	7349 Apr 16 11:45	0°♑		7354 Apr 05 19:39	0°♒		
asc. node	7349 Apr 30 18:54	11°♑16'58		7354 May 21 17:24	0°♑		
	7349 May 24 14:41	0°♑		7354 Jul 06 13:37	0°♒		
evening set	7349 Jun 28 16:24	27°♑03'08		7354 Aug 22 22:07	0°♑		
	7349 Jul 02 13:42	0°♑		7354 Oct 21 21:17	0°♑		

retrograde	7354 Nov 17 15:16	4°♄34'08			7359 Sep 17 10:42	0°♁	
min. Earth dist.	7354 Dec 14 15:45	0°♄09'32	0.37282 AU		7359 Nov 06 23:30	0°♄	
	7354 Dec 15 05:42	30°♁II			7359 Dec 23 20:03	0°♁	
opposition	7354 Dec 18 13:15	29°♁05'17	-0°14'37	evening set	7360 Jan 28 07:23	24°♁04'40	
greatest brilliancy	7354 Dec 18 12:43	29°♁05'38	-3.0m		7360 Feb 05 18:29	0°♁	
asc. node	7354 Dec 21 18:27	28°♁12'40		max. Earth dist.	7360 Feb 11 03:41	3°♁48'09	2.48219 AU
direct	7355 Jan 16 20:32	24°♁07'07			7360 Mar 18 06:26	0°♁	
	7355 Feb 17 05:25	0°♄					
	7355 Apr 18 16:34	0°♁		conjunction	7360 Mar 20 14:12	1°♁43'30	-1°06'25
	7355 Jun 07 00:13	0°♁		minimum elong	7360 Mar 20 14:22	1°♁43'48	1°06'25
	7355 Jul 25 00:13	0°♄			7360 Apr 26 21:53	0°♄	
	7355 Sep 11 00:36	0°♁		morning rise	7360 May 20 06:32	18°♄08'09	
	7355 Oct 28 24:00	0°♁			7360 Jun 04 09:50	0°♁	
evening set	7355 Nov 13 06:00	9°♁35'36			7360 Jul 12 13:57	0°♄	
desc. node	7355 Dec 12 00:31	27°♁50'31		greatest brilliancy	7360 Jul 19 16:20	5°♄33'07	1.2m
	7355 Dec 15 09:35	0°♄		asc. node	7360 Aug 12 13:25	24°♄03'50	
max. Earth dist.	7355 Dec 16 08:59	0°♄37'25	2.66515 AU		7360 Aug 20 07:29	0°♁	
					7360 Sep 29 13:02	0°♁	
conjunction	7355 Dec 27 22:05	8°♄02'10	-0°08'25		7360 Nov 11 09:46	0°♄	
minimum elong	7355 Dec 27 21:50	8°♄01'46	0°08'20		7360 Dec 28 22:47	0°♁	
behind sun begin	7355 Dec 27 05:45	7°♄35'53			7361 Mar 02 00:21	0°♁	
behind sun end	7355 Dec 28 13:55	8°♄27'38		retrograde	7361 Apr 02 13:36	5°♁29'23	
	7356 Jan 30 15:56	0°♁			7361 May 01 16:26	30°♁♁	
morning rise	7356 Feb 10 03:17	6°♁55'12		min. Earth dist.	7361 May 11 18:58	26°♁08'12	0.67383 AU
	7356 Mar 15 11:16	0°♁		opposition	7361 May 13 01:56	25°♁37'22	2°39'19
	7356 Apr 27 17:41	0°♁		greatest brilliancy	7361 May 12 23:23	25°♁39'55	-1.3m
	7356 Jun 08 14:30	0°♄		direct	7361 Jun 22 12:52	15°♁59'28	
	7356 Jul 19 10:43	0°♁		desc. node	7361 Aug 02 23:25	24°♁21'50	
	7356 Aug 29 02:13	0°♄			7361 Aug 17 09:25	0°♁	
	7356 Oct 10 07:28	0°♁			7361 Oct 15 05:02	0°♄	
asc. node	7356 Nov 07 18:06	18°♁18'10			7361 Dec 03 03:50	0°♁	
	7356 Nov 28 22:25	0°♁			7362 Jan 16 13:55	0°♁	
retrograde	7357 Jan 16 06:49	13°♁52'51			7362 Feb 26 22:41	0°♁	
min. Earth dist.	7357 Feb 14 04:09	8°♁06'07	0.48937 AU	evening set	7362 Mar 21 06:38	16°♁53'54	
greatest brilliancy	7357 Feb 20 23:47	5°♁37'25	-2.2m		7362 Apr 07 05:55	0°♄	
opposition	7357 Feb 22 11:38	5°♁04'40	4°58'52		7362 May 15 09:47	0°♁	
	7357 Mar 10 15:23	30°♁♁					
direct	7357 Mar 28 07:03	27°♁54'11		conjunction	7362 May 26 01:35	8°♁26'23	-0°24'53
	7357 Apr 16 00:22	0°♁		minimum elong	7362 May 26 04:05	8°♁31'19	0°24'57
	7357 Jun 27 03:21	0°♄		max. Earth dist.	7362 Jun 02 07:41	14°♁10'56	2.36662 AU
	7357 Aug 19 15:17	0°♁			7362 Jun 22 08:30	0°♄	
	7357 Oct 08 21:41	0°♁		asc. node	7362 Jun 30 12:44	6°♄25'03	
desc. node	7357 Oct 28 23:31	12°♁19'58			7362 Jul 30 23:17	0°♁	
	7357 Nov 26 03:52	0°♄		morning rise	7362 Aug 06 17:40	5°♁09'30	
evening set	7357 Dec 18 14:28	14°♄23'42			7362 Sep 09 01:19	0°♁	
max. Earth dist.	7358 Jan 08 23:41	28°♄24'39	2.59738 AU		7362 Oct 21 07:35	0°♄	
	7358 Jan 11 09:11	0°♁			7362 Dec 05 11:17	0°♁	
					7363 Jan 24 00:25	0°♁	
conjunction	7358 Feb 02 18:35	15°♁03'14	-0°47'25		7363 Mar 27 04:07	0°♄	
minimum elong	7358 Feb 02 17:20	15°♁01'07	0°47'21	retrograde	7363 May 06 23:21	8°♄19'08	
	7358 Feb 24 11:30	0°♁			7363 Jun 13 05:57	30°♁♁	
morning rise	7358 Mar 23 05:31	18°♁55'01		opposition	7363 Jun 15 20:53	28°♁58'31	0°10'36
	7358 Apr 07 13:18	0°♁		greatest brilliancy	7363 Jun 15 21:25	28°♁57'59	-1.4m
	7358 May 17 22:38	0°♄		min. Earth dist.	7363 Jun 18 09:14	27°♁59'16	0.67147 AU
	7358 Jun 26 04:07	0°♁		desc. node	7363 Jun 20 22:20	26°♁59'43	
	7358 Aug 03 23:36	0°♄		direct	7363 Jul 27 11:13	18°♁56'48	
	7358 Sep 12 08:42	0°♁			7363 Sep 13 03:14	0°♄	
asc. node	7358 Sep 25 15:20	9°♁51'24			7363 Nov 10 08:41	0°♁	
	7358 Oct 23 17:01	0°♁			7363 Dec 26 20:59	0°♁	
	7358 Dec 08 20:31	0°♄			7364 Feb 06 18:51	0°♁	
retrograde	7359 Feb 27 08:38	29°♄44'52			7364 Mar 17 03:47	0°♄	
min. Earth dist.	7359 Apr 03 01:51	21°♄51'11	0.61062 AU		7364 Apr 24 07:10	0°♁	
greatest brilliancy	7359 Apr 07 09:37	20°♄08'37	-1.6m	greatest brilliancy	7364 May 14 23:47	16°♁22'13	1.2m
opposition	7359 Apr 08 04:52	19°♄49'34	4°34'18	asc. node	7364 May 17 10:39	18°♁18'25	
direct	7359 May 16 02:42	11°♄03'15		evening set	7364 May 31 08:54	29°♁16'15	
	7359 Jul 21 20:43	0°♁			7364 Jun 01 07:13	0°♄	
desc. node	7359 Sep 15 23:27	29°♁10'07			7364 Jul 10 02:22	0°♁	

conjunction	7364 Aug 06 22:54	20°Ω51'53	0°50'00	retrograde	7369 Oct 16 18:07	2°Π25'46	
minimum elong	7364 Aug 06 20:12	20°Ω46'55	0°49'55		7369 Nov 05 17:41	30°R8	
	7364 Aug 19 10:25	0°Π		opposition	7369 Nov 15 15:28	27°830'15	-3°50'04
max. Earth dist.	7364 Sep 19 16:20	22°Π16'09	2.49264 AU	greatest brilliancy	7369 Nov 16 02:32	27°822'52	-3.0m
	7364 Sep 30 19:37	0°Ω		min. Earth dist.	7369 Nov 17 14:25	26°858'54	0.37010 AU
morning rise	7364 Oct 05 12:52	3°Ω14'39		direct	7369 Dec 15 18:34	22°824'56	
	7364 Nov 14 12:02	0°Π		asc. node	7370 Jan 07 10:51	25°846'29	
	7364 Dec 31 17:05	0°♂			7370 Jan 19 21:10	0°Π	
	7365 Feb 20 08:56	0°♂			7370 Mar 16 22:23	0°♂	
	7365 Apr 21 01:44	0°≈			7370 May 02 11:38	0°Ω	
desc. node	7365 May 07 20:51	6°≈18'53			7370 Jun 17 02:25	0°Π	
retrograde	7365 Jun 13 15:21	13°≈06'59			7370 Aug 02 07:41	0°Ω	
opposition	7365 Jul 21 14:12	4°≈42'15	-2°42'36		7370 Sep 18 08:47	0°Π	
greatest brilliancy	7365 Jul 22 03:38	4°≈29'31	-1.6m	evening set	7370 Oct 30 04:46	26°Π25'49	
min. Earth dist.	7365 Jul 27 19:21	2°≈20'53	0.60399 AU		7370 Nov 04 20:25	0°♂	
	7365 Aug 03 07:49	30°R8		max. Earth dist.	7370 Dec 07 11:04	20°♂39'33	2.67710 AU
direct	7365 Aug 31 14:34	24°♂50'53					
	7365 Sep 30 12:25	0°≈		conjunction	7370 Dec 14 03:01	24°♂54'09	0°07'38
	7365 Nov 30 09:50	0°♂		minimum elong	7370 Dec 14 03:15	24°♂54'30	0°07'43
	7366 Jan 14 03:02	0°Υ		behind sun begin	7370 Dec 13 10:50	24°♂28'22	
	7366 Feb 23 11:57	0°8		behind sun end	7370 Dec 14 19:39	25°♂20'38	
	7366 Apr 03 04:07	0°Π			7370 Dec 22 02:45	0°♂	
asc. node	7366 Apr 04 10:29	0°Π59'23		desc. node	7370 Dec 28 13:52	4°♂08'07	
	7366 May 11 15:28	0°♂		morning rise	7371 Jan 26 21:04	23°♂02'04	
	7366 Jun 19 23:32	0°Ω			7371 Feb 06 13:35	0°≈	
	7366 Jul 30 21:49	0°Π			7371 Mar 23 20:38	0°♂	
evening set	7366 Aug 05 15:36	4°Π05'54			7371 May 06 21:28	0°Υ	
	7366 Sep 11 19:42	0°Ω			7371 Jun 18 18:55	0°8	
					7371 Jul 30 22:31	0°Π	
conjunction	7366 Sep 29 12:39	11°Ω59'04	1°06'24		7371 Sep 11 12:43	0°♂	
minimum elong	7366 Sep 29 13:07	11°Ω59'51	1°06'26		7371 Oct 28 10:05	0°Ω	
max. Earth dist.	7366 Oct 22 07:40	27°Ω06'51	2.60696 AU	asc. node	7371 Nov 25 09:46	13°Ω40'39	
	7366 Oct 26 17:14	0°Π		retrograde	7371 Dec 27 20:07	20°Ω36'15	
morning rise	7366 Nov 17 18:22	14°Π18'39		min. Earth dist.	7372 Jan 23 16:35	15°Ω41'15	0.43506 AU
	7366 Dec 12 08:19	0°♂		opposition	7372 Jan 31 23:57	12°Ω54'17	4°00'11
	7367 Jan 29 11:21	0°♂		greatest brilliancy	7372 Jan 30 17:08	13°Ω20'14	-2.5m
	7367 Mar 20 11:09	0°≈		direct	7372 Mar 03 18:39	6°Ω37'49	
desc. node	7367 Mar 25 18:53	3°≈05'39			7372 May 15 06:11	0°Π	
	7367 May 13 18:50	0°♂			7372 Jul 08 13:02	0°Ω	
retrograde	7367 Aug 03 12:57	26°♂34'42			7372 Aug 28 01:17	0°Π	
opposition	7367 Sep 06 15:30	19°♂47'49	-5°35'24		7372 Oct 16 04:22	0°♂	
greatest brilliancy	7367 Sep 08 08:09	19°♂13'02	-2.2m	desc. node	7372 Nov 14 13:23	18°♂19'02	
min. Earth dist.	7367 Sep 15 06:00	16°♂52'04	0.48028 AU		7372 Dec 03 00:10	0°♂	
direct	7367 Oct 14 02:24	11°♂27'48		evening set	7372 Dec 04 06:05	0°♂47'42	
	7367 Dec 11 00:34	0°Υ		max. Earth dist.	7372 Dec 30 00:04	17°♂23'32	2.63009 AU
	7368 Jan 27 06:50	0°8					
asc. node	7368 Feb 20 11:21	17°820'29		conjunction	7373 Jan 18 10:31	0°≈09'44	-0°33'18
	7368 Mar 08 14:56	0°Π		minimum elong	7373 Jan 18 09:33	0°≈08'07	0°33'14
	7368 Apr 17 18:49	0°♂			7373 Jan 18 04:39	0°≈	
	7368 May 28 12:24	0°Ω			7373 Mar 03 12:25	0°♂	
	7368 Jul 09 16:26	0°Π		morning rise	7373 Mar 05 14:14	1°♂26'14	
	7368 Aug 22 15:14	0°Ω			7373 Apr 14 23:39	0°Υ	
evening set	7368 Sep 21 11:39	19°Ω44'37			7373 May 25 20:17	0°8	
	7368 Oct 07 05:38	0°Π			7373 Jul 04 13:11	0°Π	
					7373 Aug 12 19:45	0°♂	
conjunction	7368 Nov 08 04:38	20°Π33'23	0°44'53		7373 Sep 21 18:48	0°Ω	
minimum elong	7368 Nov 08 05:46	20°Π35'11	0°44'57	asc. node	7373 Oct 12 09:06	14°Ω52'39	
max. Earth dist.	7368 Nov 14 23:23	24°Π53'04	2.66948 AU		7373 Nov 03 08:16	0°Π	
	7368 Nov 23 00:07	0°♂			7373 Dec 24 08:47	0°Ω	
morning rise	7368 Dec 22 22:47	19°♂00'09		retrograde	7374 Feb 12 07:05	13°Ω54'28	
	7369 Jan 09 07:49	0°♂		min. Earth dist.	7374 Mar 16 20:20	6°Ω45'34	0.56902 AU
desc. node	7369 Feb 09 16:12	19°♂49'37		greatest brilliancy	7374 Mar 22 06:41	4°Ω39'00	-1.8m
	7369 Feb 25 18:11	0°≈		opposition	7374 Mar 23 10:06	4°Ω12'17	5°01'40
	7369 Apr 14 05:53	0°♂			7374 Apr 04 01:19	30°RΠ	
	7369 Jun 01 06:07	0°Υ		direct	7374 Apr 28 22:31	25°Π56'28	
	7369 Jul 21 13:14	0°8			7374 May 26 02:39	0°Ω	
	7369 Sep 26 22:25	0°Π			7374 Aug 03 10:43	0°Π	

	7374 Sep 25 22:06	0°♊		morning rise	7379 Sep 15 18:03	13°♎40'42
desc. node	7374 Oct 02 13:18	3°♊55'08			7379 Oct 09 00:31	0°♎
	7374 Nov 14 07:28	0°♊			7379 Nov 22 18:04	0°♎
	7374 Dec 30 20:03	0°♊			7380 Jan 09 12:10	0°♊
evening set	7375 Jan 11 13:06	7°♊49'44			7380 Mar 02 08:12	0°♊
max. Earth dist.	7375 Jan 27 11:13	18°♊39'51	2.53189 AU	desc. node	7380 May 24 10:52	29°♊07'36
	7375 Feb 12 19:00	0°♊		retrograde	7380 May 28 17:45	29°♊14'11
				opposition	7380 Jul 06 15:08	20°♊24'00 -1°33'01
conjunction	7375 Mar 01 16:15	11°♊58'24	-1°03'29	greatest brilliancy	7380 Jul 06 20:54	20°♊18'26 -1.5m
minimum elong	7375 Mar 01 15:20	11°♊56'45	1°03'27	min. Earth dist.	7380 Jul 11 10:18	18°♊32'52 0.63802 AU
	7375 Mar 26 11:27	0°♊		direct	7380 Aug 17 02:51	10°♊22'52
morning rise	7375 Apr 25 07:03	22°♊19'06			7380 Oct 21 03:13	0°♊
	7375 May 05 08:57	0°♊			7380 Dec 11 02:29	0°♊
	7375 Jun 13 02:41	0°♊			7381 Jan 23 05:17	0°♊
	7375 Jul 21 11:20	0°♊			7381 Mar 04 00:51	0°♊
	7375 Aug 29 08:36	0°♊			7381 Apr 11 09:55	0°♊
asc. node	7375 Aug 30 06:16	0°♊41'09		asc. node	7381 Apr 21 03:46	7°♊40'20
	7375 Oct 08 19:40	0°♊			7381 May 19 15:06	0°♊
	7375 Nov 21 07:51	0°♊			7381 Jun 27 16:24	0°♊
	7376 Jan 10 11:16	0°♊		evening set	7381 Jul 13 06:46	11°♊40'49
retrograde	7376 Mar 20 06:14	22°♊26'01			7381 Aug 07 07:27	0°♊
min. Earth dist.	7376 Apr 26 21:14	13°♊35'01	0.65683 AU			
opposition	7376 Apr 29 16:10	12°♊28'15	3°29'03	conjunction	7381 Sep 10 18:40	24°♊22'12 1°06'21
greatest brilliancy	7376 Apr 29 08:20	12°♊36'05	-1.4m	minimum elong	7381 Sep 10 18:05	24°♊21'11 1°06'20
direct	7376 Jun 08 07:03	3°♊06'48			7381 Sep 18 22:33	0°♊
desc. node	7376 Aug 19 13:00	24°♊27'29		max. Earth dist.	7381 Oct 11 03:35	15°♊04'07 2.56762 AU
	7376 Aug 30 20:17	0°♊		morning rise	7381 Nov 02 04:58	29°♊41'44
	7376 Oct 23 20:53	0°♊			7381 Nov 02 16:07	0°♊
	7376 Dec 10 18:02	0°♊			7381 Dec 19 09:25	0°♊
	7377 Jan 23 21:47	0°♊			7382 Feb 06 04:00	0°♊
evening set	7377 Feb 26 10:46	24°♊11'17			7382 Mar 30 05:06	0°♊
	7377 Mar 06 06:49	0°♊		desc. node	7382 Apr 11 08:53	6°♊31'20
max. Earth dist.	7377 Mar 18 04:32	8°♊56'02	2.40029 AU		7382 Jun 01 21:15	0°♊
	7377 Apr 14 16:26	0°♊		retrograde	7382 Jul 12 12:35	8°♊09'42
				opposition	7382 Aug 17 09:08	0°♊38'03 -4°34'14
conjunction	7377 Apr 27 07:30	9°♊50'16	-0°50'52	greatest brilliancy	7382 Aug 18 15:33	0°♊10'34 -1.9m
minimum elong	7377 Apr 27 10:25	9°♊55'58	0°50'53		7382 Aug 19 03:11	30°♊
	7377 May 22 22:35	0°♊		min. Earth dist.	7382 Aug 25 10:32	27°♊43'34 0.53351 AU
	7377 Jun 29 22:20	0°♊		direct	7382 Sep 25 17:39	21°♊27'03
morning rise	7377 Jul 07 06:14	5°♊45'08			7382 Nov 02 20:46	0°♊
asc. node	7377 Jul 17 04:25	13°♊30'19			7382 Dec 27 06:07	0°♊
	7377 Aug 07 12:54	0°♊			7383 Feb 07 22:22	0°♊
	7377 Sep 16 14:30	0°♊		asc. node	7383 Mar 09 02:51	21°♊56'00
	7377 Oct 28 22:47	0°♊			7383 Mar 19 16:31	0°♊
	7377 Dec 13 14:53	0°♊			7383 Apr 27 21:58	0°♊
	7378 Feb 03 08:55	0°♊			7383 Jun 06 22:02	0°♊
retrograde	7378 Apr 23 09:38	25°♊47'32			7383 Jul 18 11:19	0°♊
opposition	7378 Jun 02 16:22	16°♊12'08	1°11'10		7383 Aug 30 21:56	0°♊
greatest brilliancy	7378 Jun 02 17:44	16°♊10'47	-1.3m	evening set	7383 Sep 05 09:48	3°♊42'12
min. Earth dist.	7378 Jun 03 17:11	15°♊47'35	0.68034 AU		7383 Oct 15 03:51	0°♊
desc. node	7378 Jul 07 12:08	6°♊32'28				
direct	7378 Jul 14 00:05	6°♊16'36		conjunction	7383 Oct 25 06:05	6°♊33'29 0°55'57
	7378 Sep 27 23:34	0°♊		minimum elong	7383 Oct 25 07:14	6°♊35'21 0°56'01
	7378 Nov 19 13:50	0°♊		max. Earth dist.	7383 Nov 06 22:00	14°♊43'47 2.65140 AU
	7379 Jan 03 23:31	0°♊			7383 Nov 30 19:01	0°♊
	7379 Feb 14 14:04	0°♊		morning rise	7383 Dec 10 06:38	6°♊01'28
	7379 Mar 25 21:13	0°♊			7384 Jan 17 07:17	0°♊
evening set	7379 May 02 14:28	29°♊41'27		desc. node	7384 Feb 27 06:44	25°♊33'43
	7379 May 02 23:50	0°♊			7384 Mar 05 10:41	0°♊
asc. node	7379 Jun 04 04:36	25°♊29'08			7384 Apr 23 13:41	0°♊
	7379 Jun 09 22:12	0°♊			7384 Jun 14 11:08	0°♊
					7384 Aug 21 19:58	0°♊
conjunction	7379 Jul 12 01:46	25°♊00'25	0°26'07	retrograde	7384 Sep 14 06:55	3°♊09'43
minimum elong	7379 Jul 11 23:20	24°♊55'46	0°26'00		7384 Oct 07 04:38	30°♊
	7379 Jul 18 14:19	0°♊		opposition	7384 Oct 15 07:21	27°♊44'54 -5°49'34
	7379 Aug 27 18:31	0°♊		greatest brilliancy	7384 Oct 16 19:37	27°♊18'29 -2.7m
max. Earth dist.	7379 Sep 01 17:11	3°♊35'43	2.43729 AU	min. Earth dist.	7384 Oct 21 23:50	25°♊48'46 0.40034 AU

direct	7384 Nov 17 04:58	21° Υ 29'54		minimum elong	7390 Feb 11 23:03	24° \approx 32'28	0°54'25
	7384 Dec 24 01:06	0° \mathcal{B}			7390 Feb 19 19:34	0° \mathcal{H}	
asc. node	7385 Jan 24 03:30	16° \mathcal{B} 05'37			7390 Apr 02 18:26	0° Υ	
	7385 Feb 15 08:35	0° Π		morning rise	7390 Apr 03 05:35	0° Υ 20'23	
	7385 Mar 31 09:33	0° \mathcal{C}			7390 May 12 23:35	0° \mathcal{B}	
	7385 May 13 08:49	0° Ω			7390 Jun 21 00:37	0° Π	
	7385 Jun 26 02:25	0° \mathcal{M}			7390 Jul 29 15:18	0° \mathcal{C}	
	7385 Aug 10 04:05	0° $\underline{\mathcal{A}}$			7390 Sep 06 18:22	0° Ω	
	7385 Sep 25 12:27	0° \mathcal{M}		asc. node	7390 Sep 16 00:12	6° Ω 56'10	
evening set	7385 Oct 15 17:28	12° \mathcal{M} 54'02			7390 Oct 17 15:29	0° \mathcal{M}	
	7385 Nov 11 15:27	0° \mathcal{A}			7390 Dec 01 09:08	0° $\underline{\mathcal{A}}$	
max. Earth dist.	7385 Nov 28 15:33	10° \mathcal{A} 47'22	2.68068 AU		7391 Jan 27 05:43	0° \mathcal{M}	
				retrograde	7391 Mar 07 13:32	8° \mathcal{M} 38'48	
conjunction	7385 Nov 30 08:25	11° \mathcal{A} 52'12	0°23'04	min. Earth dist.	7391 Apr 12 09:07	0° \mathcal{M} 22'46	0.62982 AU
minimum elong	7385 Nov 30 09:06	11° \mathcal{A} 53'16	0°23'09		7391 Apr 13 08:07	30° \mathcal{R} $\underline{\mathcal{A}}$	
	7385 Dec 28 20:39	0° \mathcal{B}		opposition	7391 Apr 16 16:01	28° $\underline{\mathcal{A}}$ 40'26	4°12'52
morning rise	7386 Jan 13 03:14	9° \mathcal{B} 45'23		greatest brilliancy	7391 Apr 16 01:12	28° $\underline{\mathcal{A}}$ 55'12	-1.5m
desc. node	7386 Jan 14 04:58	10° \mathcal{B} 26'36		direct	7391 May 25 05:43	19° $\underline{\mathcal{A}}$ 40'00	
	7386 Feb 13 14:14	0° \approx			7391 Jul 10 20:29	0° \mathcal{M}	
	7386 Mar 31 12:44	0° \mathcal{H}		desc. node	7391 Sep 06 02:38	27° \mathcal{M} 11'33	
	7386 May 15 15:17	0° Υ			7391 Sep 11 06:27	0° \mathcal{A}	
	7386 Jun 29 03:02	0° \mathcal{B}			7391 Nov 01 19:46	0° \mathcal{B}	
	7386 Aug 12 18:13	0° Π			7391 Dec 19 00:38	0° \approx	
	7386 Sep 29 15:43	0° \mathcal{C}			7392 Feb 01 01:19	0° \mathcal{H}	
retrograde	7386 Dec 03 12:03	22° \mathcal{C} 36'44		evening set	7392 Feb 07 13:53	4° \mathcal{H} 36'34	
asc. node	7386 Dec 12 03:13	22° \mathcal{C} 04'27		max. Earth dist.	7392 Feb 21 11:01	14° \mathcal{H} 33'24	2.45298 AU
min. Earth dist.	7386 Dec 29 16:06	18° \mathcal{C} 13'13	0.38918 AU		7392 Mar 13 12:42	0° Υ	
opposition	7387 Jan 04 21:28	16° \mathcal{C} 22'51	1°42'00				
greatest brilliancy	7387 Jan 04 10:22	16° \mathcal{C} 31'07	-2.9m	conjunction	7392 Apr 02 03:49	14° Υ 44'03	-1°04'08
direct	7387 Feb 03 22:33	11° \mathcal{C} 02'12		minimum elong	7392 Apr 02 04:58	14° Υ 46'13	1°04'10
	7387 Apr 06 22:59	0° Ω			7392 Apr 22 02:25	0° \mathcal{B}	
	7387 May 30 17:15	0° \mathcal{M}			7392 May 30 12:30	0° Π	
	7387 Jul 19 05:06	0° $\underline{\mathcal{A}}$		morning rise	7392 Jun 05 18:02	4° Π 54'26	
	7387 Sep 05 22:26	0° \mathcal{M}			7392 Jul 07 14:50	0° \mathcal{C}	
	7387 Oct 24 06:16	0° \mathcal{A}		asc. node	7392 Aug 02 22:48	20° \mathcal{C} 31'29	
evening set	7387 Nov 21 04:58	17° \mathcal{A} 33'16			7392 Aug 15 06:32	0° Ω	
desc. node	7387 Dec 02 03:30	24° \mathcal{A} 29'19			7392 Sep 24 09:18	0° \mathcal{M}	
	7387 Dec 10 19:05	0° \mathcal{B}			7392 Nov 05 22:42	0° $\underline{\mathcal{A}}$	
max. Earth dist.	7387 Dec 21 14:53	6° \mathcal{B} 56'15	2.65500 AU		7392 Dec 22 12:30	0° \mathcal{M}	
					7393 Feb 16 20:30	0° \mathcal{A}	
conjunction	7388 Jan 04 22:16	16° \mathcal{B} 11'05	-0°17'45	retrograde	7393 Apr 10 03:35	13° \mathcal{A} 16'31	
minimum elong	7388 Jan 04 21:43	16° \mathcal{B} 10'12	0°17'40	opposition	7393 May 20 14:59	3° \mathcal{A} 29'25	2°07'57
	7388 Jan 26 00:50	0° \approx		min. Earth dist.	7393 May 20 04:04	3° \mathcal{A} 40'17	0.67890 AU
morning rise	7388 Feb 18 15:37	15° \approx 43'57		greatest brilliancy	7393 May 20 14:30	3° \mathcal{A} 29'54	-1.3m
	7388 Mar 10 15:57	0° \mathcal{H}			7393 May 29 15:03	30° \mathcal{R} \mathcal{M}	
	7388 Apr 22 15:02	0° Υ		direct	7393 Jun 30 10:34	23° \mathcal{M} 44'04	
	7388 Jun 03 02:03	0° \mathcal{B}		desc. node	7393 Jul 24 01:56	26° \mathcal{M} 45'19	
	7388 Jul 13 10:34	0° Π			7393 Aug 04 14:47	0° \mathcal{A}	
	7388 Aug 22 10:33	0° \mathcal{C}			7393 Oct 08 21:42	0° \mathcal{B}	
	7388 Oct 02 11:51	0° Ω			7393 Nov 27 21:45	0° \approx	
asc. node	7388 Oct 29 00:58	18° Ω 09'39			7394 Jan 11 15:43	0° \mathcal{H}	
	7388 Nov 16 21:42	0° \mathcal{M}			7394 Feb 22 02:39	0° Υ	
retrograde	7389 Jan 26 16:47	25° \mathcal{M} 53'55			7394 Apr 02 09:53	0° \mathcal{B}	
min. Earth dist.	7389 Feb 25 21:27	19° \mathcal{M} 36'30	0.51956 AU	evening set	7394 Apr 04 15:18	1° \mathcal{B} 43'59	
greatest brilliancy	7389 Mar 04 07:11	17° \mathcal{M} 12'28	-2.0m		7394 May 10 13:14	0° Π	
opposition	7389 Mar 05 17:18	16° \mathcal{M} 40'20	5°09'24				
direct	7389 Apr 09 14:22	9° \mathcal{M} 03'33		conjunction	7394 Jun 12 04:53	25° Π 50'39	-0°06'14
	7389 Jun 18 02:29	0° $\underline{\mathcal{A}}$		minimum elong	7394 Jun 12 05:33	25° Π 51'59	0°06'19
	7389 Aug 13 14:15	0° \mathcal{M}		behind sun begin	7394 Jun 11 01:12	24° Π 56'04	
	7389 Oct 03 18:57	0° \mathcal{A}		behind sun end	7394 Jun 13 09:55	26° Π 47'53	
desc. node	7389 Oct 19 02:59	9° \mathcal{A} 18'38			7394 Jun 17 11:28	0° \mathcal{C}	
	7389 Nov 21 09:52	0° \mathcal{B}		asc. node	7394 Jun 20 20:34	2° \mathcal{C} 39'26	
evening set	7389 Dec 27 00:46	22° \mathcal{B} 55'35			7394 Jul 26 02:06	0° Ω	
	7390 Jan 06 18:00	0° \approx		max. Earth dist.	7394 Jul 30 00:03	2° Ω 59'17	2.38412 AU
max. Earth dist.	7390 Jan 15 07:01	5° \approx 41'54	2.57622 AU	morning rise	7394 Aug 22 07:53	20° Ω 32'25	
					7394 Sep 04 04:05	0° \mathcal{M}	
conjunction	7390 Feb 12 00:19	24° \approx 34'40	-0°54'28		7394 Oct 16 08:50	0° $\underline{\mathcal{A}}$	

	7394 Nov 30 06:36	0°♌		asc. node	7400 Feb 10 18:57	15°♏55'05	
	7395 Jan 17 22:14	0°♏			7400 Mar 02 12:38	0°♐	
	7395 Mar 15 21:23	0°♑			7400 Apr 12 13:32	0°♑	
retrograde	7395 May 15 00:36	16°♑07'05			7400 May 23 20:45	0°♒	
desc. node	7395 Jun 11 00:41	11°♑33'12			7400 Jul 05 11:07	0°♓	
opposition	7395 Jun 23 14:46	6°♑56'16 -0°26'39			7400 Aug 18 17:26	0°♈	
greatest brilliancy	7395 Jun 23 15:54	6°♑55'09 -1.4m		evening set	7400 Oct 01 13:46	28°♈43'45	
min. Earth dist.	7395 Jun 26 22:50	5°♑38'02 0.66233 AU			7400 Oct 03 12:57	0°♌	
	7395 Jul 13 04:10	30°♏♏					
direct	7395 Aug 04 05:45	26°♏53'04		conjunction	7400 Nov 17 08:58	28°♌42'47 0°37'21	
	7395 Aug 27 19:34	0°♑		minimum elong	7400 Nov 17 09:59	28°♌44'24 0°37'26	
	7395 Nov 03 15:30	0°♐			7400 Nov 19 09:32	0°♏	
	7395 Dec 21 08:04	0°♏		max. Earth dist.	7400 Nov 21 02:02	1°♏04'24 2.67587 AU	
	7396 Feb 01 14:57	0°♑		morning rise	7400 Dec 31 15:28	26°♏49'12	
	7396 Mar 12 03:13	0°♏			7401 Jan 05 15:41	0°♑	
	7396 Apr 19 08:13	0°♐		desc. node	7401 Jan 31 18:57	16°♑36'32	
asc. node	7396 May 07 19:54	14°♐36'45			7401 Feb 21 19:14	0°♐	
	7396 May 27 09:20	0°♑			7401 Apr 09 15:24	0°♏	
evening set	7396 Jun 16 15:27	15°♑45'34			7401 May 26 08:40	0°♑	
	7396 Jul 05 05:37	0°♒			7401 Jul 12 17:05	0°♏	
	7396 Aug 14 15:04	0°♓			7401 Sep 01 20:35	0°♐	
				retrograde	7401 Nov 05 02:24	20°♐51'30	
conjunction	7396 Aug 20 10:52	4°♓12'43 0°58'43		min. Earth dist.	7401 Dec 03 20:25	16°♐09'02 0.36698 AU	
minimum elong	7396 Aug 20 08:52	4°♓09'06 0°58'40		opposition	7401 Dec 05 05:49	15°♐46'50 -1°52'36	
	7396 Sep 26 01:06	0°♈		greatest brilliancy	7401 Dec 05 06:00	15°♐46'42 -3.1m	
max. Earth dist.	7396 Sep 28 07:41	1°♈33'58 2.52116 AU		asc. node	7401 Dec 29 19:25	11°♐03'36	
morning rise	7396 Oct 16 03:16	13°♈41'14		direct	7402 Jan 03 12:21	10°♐54'37	
	7396 Nov 09 16:37	0°♌			7402 Mar 05 03:50	0°♑	
	7396 Dec 26 15:20	0°♏			7402 Apr 25 11:15	0°♒	
	7397 Feb 14 09:49	0°♑			7402 Jun 11 19:11	0°♓	
	7397 Apr 11 01:55	0°♐			7402 Jul 28 21:25	0°♈	
desc. node	7397 Apr 27 23:46	7°♐43'15			7402 Sep 14 10:24	0°♌	
retrograde	7397 Jun 23 12:19	22°♐04'41			7402 Nov 01 04:12	0°♏	
opposition	7397 Jul 30 19:03	13°♐56'54 -3°23'54		evening set	7402 Nov 08 06:52	4°♏28'47	
greatest brilliancy	7397 Jul 31 14:06	13°♐39'05 -1.7m		max. Earth dist.	7402 Dec 13 14:08	26°♏51'05 2.67159 AU	
min. Earth dist.	7397 Aug 06 17:32	11°♐21'11 0.58105 AU			7402 Dec 18 12:28	0°♑	
direct	7397 Sep 09 08:22	4°♐15'45		desc. node	7402 Dec 19 17:05	0°♑45'45	
	7397 Nov 22 05:25	0°♏					
	7398 Jan 07 19:36	0°♑		conjunction	7402 Dec 23 00:07	2°♑52'10 -0°01'46	
	7398 Feb 17 18:54	0°♏		minimum elong	7402 Dec 23 00:04	2°♑52'05 0°01'40	
asc. node	7398 Mar 25 20:00	27°♏43'23		behind sun begin	7402 Dec 22 05:41	2°♑22'42	
	7398 Mar 28 18:21	0°♐		behind sun end	7402 Dec 23 18:26	3°♑21'29	
	7398 May 06 10:41	0°♑			7403 Feb 02 21:21	0°♐	
	7398 Jun 14 22:53	0°♒		morning rise	7403 Feb 04 22:29	1°♐20'38	
	7398 Jul 26 01:03	0°♓			7403 Mar 19 22:17	0°♏	
evening set	7398 Aug 17 10:50	15°♓47'41			7403 May 02 13:14	0°♑	
	7398 Sep 07 01:56	0°♈			7403 Jun 13 20:36	0°♏	
					7403 Jul 25 05:25	0°♐	
conjunction	7398 Oct 09 06:08	21°♈35'04 1°03'48			7403 Sep 04 12:55	0°♑	
minimum elong	7398 Oct 09 06:58	21°♈36'27 1°03'50			7403 Oct 18 01:49	0°♒	
	7398 Oct 22 01:16	0°♌		asc. node	7403 Nov 16 19:29	17°♒46'13	
max. Earth dist.	7398 Oct 28 05:32	4°♌02'02 2.62503 AU			7403 Dec 14 08:05	0°♓	
morning rise	7398 Nov 26 03:28	22°♌40'58		retrograde	7404 Jan 09 20:13	4°♓44'17	
	7398 Dec 07 15:10	0°♏			7404 Feb 04 19:40	30°♒♒	
	7399 Jan 24 11:22	0°♑		min. Earth dist.	7404 Feb 06 16:30	29°♒22'19 0.46470 AU	
	7399 Mar 14 15:26	0°♐		greatest brilliancy	7404 Feb 13 17:27	26°♒53'56 -2.3m	
desc. node	7399 Mar 15 21:34	0°♐45'06		opposition	7404 Feb 15 04:46	26°♒22'41 4°41'58	
	7399 May 05 10:17	0°♏		direct	7404 Mar 19 03:02	19°♒35'30	
	7399 Jul 06 14:43	0°♑			7404 May 02 23:32	0°♓	
retrograde	7399 Aug 17 15:28	8°♑54'39			7404 Jul 02 11:08	0°♈	
opposition	7399 Sep 19 16:55	2°♑36'29 -5°58'12			7404 Aug 23 11:57	0°♌	
greatest brilliancy	7399 Sep 21 12:15	2°♑01'03 -2.4m			7404 Oct 12 05:56	0°♏	
	7399 Sep 27 17:44	30°♒♏		desc. node	7404 Nov 05 16:11	15°♏06'19	
min. Earth dist.	7399 Sep 28 04:09	29°♏51'50 0.44977 AU			7404 Nov 29 08:02	0°♑	
direct	7399 Oct 25 16:36	24°♏56'14		evening set	7404 Dec 13 09:45	8°♑59'37	
	7399 Nov 22 14:55	0°♑		max. Earth dist.	7405 Jan 05 17:38	24°♑09'35 2.61301 AU	
	7400 Jan 18 08:54	0°♏			7405 Jan 14 14:00	0°♐	

conjunction	7405 Jan 28 01:19	8° \approx 59'33 -0°41'46	retrograde	7410 May 02 03:14	3° \mathcal{Z} 27'21	
minimum elong	7405 Jan 28 00:09	8° \approx 57'35 0°41'42		7410 May 25 10:11	30° \mathcal{R} \mathcal{Z}	
	7405 Feb 27 19:39	0° \mathcal{H}	opposition	7410 Jun 11 05:17	23° \mathcal{Z} 59'46	0°36'07
morning rise	7405 Mar 16 08:23	11° \mathcal{H} 34'15	greatest brilliancy	7410 Jun 11 06:30	23° \mathcal{Z} 58'35	-1.3m
	7405 Apr 11 02:32	0° \mathcal{Y}	min. Earth dist.	7410 Jun 13 01:57	23° \mathcal{Z} 15'44	0.67662 AU
	7405 May 21 17:20	0° \mathcal{B}	desc. node	7410 Jun 28 15:15	17° \mathcal{Z} 40'29	
	7405 Jun 30 04:04	0° \mathcal{II}	direct	7410 Jul 22 16:58	14° \mathcal{Z} 00'11	
	7405 Aug 08 03:57	0° \mathcal{E}		7410 Sep 20 04:39	0° \mathcal{Z}	
	7405 Sep 16 17:29	0° \mathcal{O}		7410 Nov 14 15:48	0° \approx	
asc. node	7405 Oct 03 17:08	12° \mathcal{O} 29'36		7410 Dec 30 17:30	0° \mathcal{H}	
	7405 Oct 28 10:26	0° \mathcal{M}		7411 Feb 10 13:26	0° \mathcal{Y}	
	7405 Dec 14 20:49	0° \mathcal{L}		7411 Mar 21 22:15	0° \mathcal{B}	
retrograde	7406 Feb 22 01:56	23° \mathcal{L} 38'10		7411 Apr 29 01:36	0° \mathcal{II}	
min. Earth dist.	7406 Mar 27 20:31	16° \mathcal{L} 03'14 0.59308 AU	evening set	7411 May 20 08:35	16° \mathcal{II} 51'34	
opposition	7406 Apr 02 14:48	13° \mathcal{L} 47'14 4°47'52	asc. node	7411 May 26 12:07	21° \mathcal{II} 42'53	
greatest brilliancy	7406 Apr 01 15:57	14° \mathcal{L} 09'45 -1.7m		7411 Jun 06 00:40	0° \mathcal{E}	
direct	7406 May 09 21:43	5° \mathcal{L} 13'40		7411 Jul 14 17:38	0° \mathcal{O}	
	7406 Jul 27 16:22	0° \mathcal{M}				
	7406 Sep 21 07:08	0° \mathcal{Z}	conjunction	7411 Jul 28 16:57	10° \mathcal{O} 34'27	0°41'05
desc. node	7406 Sep 23 15:42	1° \mathcal{Z} 21'35	minimum elong	7411 Jul 28 14:02	10° \mathcal{O} 28'57	0°40'59
	7406 Nov 10 08:32	0° \mathcal{Z}		7411 Aug 23 22:51	0° \mathcal{M}	
	7406 Dec 27 02:59	0° \approx	max. Earth dist.	7411 Sep 14 05:57	15° \mathcal{M} 19'00	2.46834 AU
evening set	7407 Jan 21 21:27	17° \approx 21'19	morning rise	7411 Sep 28 21:38	25° \mathcal{M} 37'09	
max. Earth dist.	7407 Feb 05 10:02	27° \approx 24'19 2.50510 AU		7411 Oct 05 05:07	0° \mathcal{L}	
	7407 Feb 09 02:58	0° \mathcal{H}		7411 Nov 18 20:14	0° \mathcal{M}	
				7412 Jan 05 04:25	0° \mathcal{Z}	
conjunction	7407 Mar 13 14:49	23° \mathcal{H} 17'06 -1°06'08		7412 Feb 25 12:50	0° \mathcal{Z}	
minimum elong	7407 Mar 13 14:25	23° \mathcal{H} 16'23 1°06'07		7412 Apr 29 16:38	0° \approx	
	7407 Mar 22 18:07	0° \mathcal{Y}	desc. node	7412 May 15 13:49	4° \approx 38'22	
	7407 May 01 12:55	0° \mathcal{B}	retrograde	7412 Jun 07 15:08	7° \approx 31'42	
morning rise	7407 May 10 09:11	6° \mathcal{B} 48'41		7412 Jul 13 03:52	30° \mathcal{R} \mathcal{Z}	
	7407 Jun 09 03:45	0° \mathcal{II}	opposition	7412 Jul 16 00:33	28° \mathcal{Z} 54'54	-2°13'02
	7407 Jul 17 09:38	0° \mathcal{E}	greatest brilliancy	7412 Jul 16 10:21	28° \mathcal{Z} 45'32	-1.5m
asc. node	7407 Aug 21 14:51	27° \mathcal{E} 17'40	min. Earth dist.	7412 Jul 21 14:38	26° \mathcal{Z} 46'34	0.62042 AU
	7407 Aug 25 03:50	0° \mathcal{O}	direct	7412 Aug 26 06:47	18° \mathcal{Z} 57'46	
	7407 Oct 04 10:10	0° \mathcal{M}		7412 Oct 11 07:08	0° \approx	
	7407 Nov 16 10:19	0° \mathcal{L}		7412 Dec 05 13:06	0° \mathcal{H}	
	7408 Jan 03 16:47	0° \mathcal{M}		7413 Jan 18 13:06	0° \mathcal{Y}	
	7408 Mar 20 02:48	0° \mathcal{Z}		7413 Feb 27 16:13	0° \mathcal{B}	
retrograde	7408 Mar 28 22:52	0° \mathcal{Z} 29'07		7413 Apr 07 05:05	0° \mathcal{II}	
	7408 Apr 06 12:36	30° \mathcal{R} \mathcal{M}	asc. node	7413 Apr 12 11:34	4° \mathcal{II} 08'06	
min. Earth dist.	7408 May 06 11:24	21° \mathcal{M} 20'44 0.66745 AU		7413 May 15 13:04	0° \mathcal{E}	
opposition	7408 May 08 10:14	20° \mathcal{M} 33'59 3°00'38		7413 Jun 23 16:58	0° \mathcal{O}	
greatest brilliancy	7408 May 08 05:36	20° \mathcal{M} 38'37 -1.3m	evening set	7413 Jul 27 22:32	25° \mathcal{O} 17'59	
direct	7408 Jun 17 12:19	11° \mathcal{M} 02'56		7413 Aug 03 10:46	0° \mathcal{M}	
desc. node	7408 Aug 10 15:41	24° \mathcal{M} 18'19		7413 Sep 15 04:14	0° \mathcal{L}	
	7408 Aug 23 14:44	0° \mathcal{Z}				
	7408 Oct 19 03:53	0° \mathcal{Z}	conjunction	7413 Sep 22 17:29	5° \mathcal{L} 09'21	1°07'10
	7408 Dec 06 16:57	0° \approx	minimum elong	7413 Sep 22 17:34	5° \mathcal{L} 09'30	1°07'10
	7409 Jan 20 01:48	0° \mathcal{H}	max. Earth dist.	7413 Oct 18 17:21	22° \mathcal{L} 36'02	2.59051 AU
	7409 Mar 02 12:05	0° \mathcal{Y}		7413 Oct 29 22:45	0° \mathcal{M}	
evening set	7409 Mar 11 22:38	7° \mathcal{Y} 04'34	morning rise	7413 Nov 12 06:00	8° \mathcal{M} 40'33	
	7409 Apr 10 21:12	0° \mathcal{B}		7413 Dec 15 13:30	0° \mathcal{Z}	
max. Earth dist.	7409 Apr 12 21:54	1° \mathcal{B} 34'34 2.37615 AU		7414 Feb 01 21:46	0° \mathcal{Z}	
				7414 Mar 24 14:49	0° \approx	
conjunction	7409 May 14 02:26	26° \mathcal{B} 02'50 -0°37'33	desc. node	7414 Apr 02 11:52	5° \approx 01'14	
minimum elong	7409 May 14 05:33	26° \mathcal{B} 08'59 0°37'35		7414 May 20 13:51	0° \mathcal{H}	
	7409 May 19 02:29	0° \mathcal{II}	retrograde	7414 Jul 25 12:34	18° \mathcal{H} 43'36	
	7409 Jun 26 01:27	0° \mathcal{E}	opposition	7414 Aug 29 10:46	11° \mathcal{H} 35'20	-5°11'01
asc. node	7409 Jul 08 14:04	9° \mathcal{E} 49'40	greatest brilliancy	7414 Aug 30 23:21	11° \mathcal{H} 03'06	-2.1m
morning rise	7409 Jul 25 17:56	23° \mathcal{E} 09'48	min. Earth dist.	7414 Sep 06 21:21	8° \mathcal{H} 37'34	0.50468 AU
	7409 Aug 03 15:15	0° \mathcal{O}	direct	7414 Oct 06 19:46	2° \mathcal{H} 49'20	
	7409 Sep 12 15:46	0° \mathcal{M}		7414 Dec 19 08:07	0° \mathcal{Y}	
	7409 Oct 24 20:57	0° \mathcal{L}		7415 Feb 02 01:40	0° \mathcal{B}	
	7409 Dec 09 03:06	0° \mathcal{M}	asc. node	7415 Feb 28 12:42	19° \mathcal{B} 26'19	
	7410 Jan 28 07:28	0° \mathcal{Z}		7415 Mar 14 14:01	0° \mathcal{II}	
	7410 Apr 07 00:51	0° \mathcal{Z}		7415 Apr 23 06:11	0° \mathcal{E}	

	7415 Jun 02 14:04	0°♏		morning rise	7420 Feb 28 13:33	24°♏58'02	
	7415 Jul 14 09:48	0°♐			7420 Mar 06 21:38	0°♐	
	7415 Aug 27 01:35	0°♑			7420 Apr 18 14:58	0°♑	
evening set	7415 Sep 16 08:33	13°♑32'12			7420 May 29 18:23	0°♒	
	7415 Oct 11 11:04	0°♒			7420 Jul 08 18:07	0°♓	
					7420 Aug 17 07:28	0°♐	
conjunction	7415 Nov 03 22:01	15°♒09'22	0°49'48		7420 Sep 26 14:54	0°♏	
minimum elong	7415 Nov 03 23:11	15°♒11'15	0°49'52	asc. node	7420 Oct 20 10:33	16°♏54'20	
max. Earth dist.	7415 Nov 13 07:20	21°♒10'25	2.66252 AU		7420 Nov 09 00:07	0°♐	
	7415 Nov 27 03:13	0°♑			7421 Jan 03 23:58	0°♑	
morning rise	7415 Dec 19 03:43	13°♑58'38		retrograde	7421 Feb 06 09:31	6°♑54'37	
	7416 Jan 13 12:30	0°♒		min. Earth dist.	7421 Mar 09 21:50	0°♑07'36	0.54770 AU
desc. node	7416 Feb 18 09:15	22°♒33'58			7421 Mar 10 05:54	30°♒♐	
	7416 Mar 01 05:39	0°♓		greatest brilliancy	7421 Mar 15 18:44	27°♐52'30	-1.9m
	7416 Apr 18 08:26	0°♐		opposition	7421 Mar 17 01:28	27°♐22'53	5°08'30
	7416 Jun 06 17:17	0°♑		direct	7421 Apr 21 20:38	19°♐23'20	
	7416 Jul 30 21:42	0°♒			7421 Jun 07 06:58	0°♑	
retrograde	7416 Oct 03 07:11	19°♒29'58			7421 Aug 08 02:38	0°♒	
opposition	7416 Nov 02 10:15	14°♒27'07	-4°57'39		7421 Sep 29 12:41	0°♑	
greatest brilliancy	7416 Nov 03 09:40	14°♒11'01	-2.9m	desc. node	7421 Oct 10 06:02	6°♑24'37	
min. Earth dist.	7416 Nov 06 19:43	13°♒14'41	0.38013 AU		7421 Nov 17 14:35	0°♒	
direct	7416 Dec 03 16:27	8°♒56'03			7422 Jan 03 02:18	0°♓	
asc. node	7417 Jan 15 12:38	19°♒59'22		evening set	7422 Jan 05 18:19	1°♓46'17	
	7417 Feb 04 01:01	0°♓		max. Earth dist.	7422 Jan 23 02:13	13°♓25'17	2.55241 AU
	7417 Mar 24 04:37	0°♐			7422 Feb 16 03:26	0°♐	
	7417 May 07 18:32	0°♏					
	7417 Jun 21 09:21	0°♐		conjunction	7422 Feb 22 19:55	4°♐41'44	-1°00'17
	7417 Aug 06 00:14	0°♑		minimum elong	7422 Feb 22 18:47	4°♐39'44	1°00'15
	7417 Sep 21 16:43	0°♒			7422 Mar 29 23:46	0°♑	
evening set	7417 Oct 25 01:52	21°♒11'15		morning rise	7422 Apr 16 06:44	12°♑48'31	
	7417 Nov 07 23:55	0°♑			7422 May 09 01:18	0°♒	
max. Earth dist.	7417 Dec 04 18:25	16°♑58'02	2.67977 AU		7422 Jun 16 22:35	0°♓	
					7422 Jul 25 09:49	0°♐	
conjunction	7417 Dec 09 06:09	19°♑49'08	0°14'07		7422 Sep 02 08:43	0°♏	
minimum elong	7417 Dec 09 06:34	19°♑49'48	0°14'13	asc. node	7422 Sep 07 08:26	3°♏46'28	
behind sun begin	7417 Dec 08 22:05	19°♑36'18			7422 Oct 12 22:11	0°♐	
behind sun end	7417 Dec 09 15:04	20°♑03'17			7422 Nov 25 18:26	0°♑	
	7417 Dec 25 05:50	0°♒			7423 Jan 16 15:17	0°♒	
desc. node	7418 Jan 05 06:51	7°♒03'42		retrograde	7423 Mar 16 11:52	17°♒07'05	
morning rise	7418 Jan 21 22:56	17°♒46'31		min. Earth dist.	7423 Apr 22 07:42	8°♒31'01	0.64592 AU
	7418 Feb 09 19:58	0°♓		opposition	7423 Apr 25 18:38	7°♒08'18	3°48'19
	7418 Mar 27 10:00	0°♐		greatest brilliancy	7423 Apr 25 07:54	7°♒19'01	-1.4m
	7418 May 10 22:00	0°♑			7423 May 17 00:37	30°♒♑	
	7418 Jun 23 10:38	0°♒		direct	7423 Jun 03 22:21	27°♑55'45	
	7418 Aug 05 11:46	0°♓			7423 Jun 23 05:49	0°♒	
	7418 Sep 18 14:48	0°♐		desc. node	7423 Aug 28 05:39	25°♒40'44	
	7418 Nov 10 06:24	0°♏			7423 Sep 05 14:39	0°♑	
asc. node	7418 Dec 03 11:20	7°♏45'12			7423 Oct 28 13:01	0°♒	
retrograde	7418 Dec 18 18:28	9°♏25'32			7423 Dec 15 04:23	0°♓	
min. Earth dist.	7419 Jan 14 01:21	4°♏49'05	0.41262 AU		7424 Jan 28 08:04	0°♐	
opposition	7419 Jan 21 18:40	2°♏21'42	3°12'17	evening set	7424 Feb 19 12:06	15°♐49'38	
greatest brilliancy	7419 Jan 20 18:40	2°♏40'53	-2.7m	max. Earth dist.	7424 Mar 06 05:32	27°♐20'59	2.42322 AU
	7419 Jan 29 13:57	30°♒♐			7424 Mar 09 19:18	0°♑	
direct	7419 Feb 21 16:34	26°♐31'05					
	7419 Mar 17 18:03	0°♏		conjunction	7424 Apr 16 20:56	28°♑53'26	-0°58'09
	7419 May 23 07:12	0°♐		minimum elong	7424 Apr 16 23:10	28°♑57'45	0°58'12
	7419 Jul 14 01:27	0°♑			7424 Apr 18 07:22	0°♒	
	7419 Sep 01 16:46	0°♒			7424 May 26 15:26	0°♓	
	7419 Oct 20 10:52	0°♑		morning rise	7424 Jun 24 08:04	22°♓39'07	
desc. node	7419 Nov 23 06:11	21°♑10'15			7424 Jul 03 16:06	0°♐	
evening set	7419 Nov 30 05:28	25°♑35'08		asc. node	7424 Jul 25 05:51	16°♐52'04	
	7419 Dec 07 03:57	0°♒			7424 Aug 11 06:22	0°♏	
max. Earth dist.	7419 Dec 28 01:52	13°♒26'05	2.64226 AU		7424 Sep 20 07:06	0°♐	
					7424 Nov 01 15:37	0°♑	
conjunction	7420 Jan 14 03:26	24°♒33'30	-0°26'57		7424 Dec 17 13:08	0°♒	
minimum elong	7420 Jan 14 02:37	24°♒32'10	0°26'52		7425 Feb 08 13:52	0°♑	
	7420 Jan 22 09:47	0°♓		retrograde	7425 Apr 18 17:53	20°♑57'11	

opposition	7425 May 29 02:50	11°♊16'12	1°35'08		7430 Jun 10 19:19	0°♎	
greatest brilliancy	7425 May 29 03:40	11°♊15'22	-1.3m		7430 Jul 22 02:07	0°♎	
min. Earth dist.	7425 May 29 11:41	11°♊07'25	0.68102 AU	evening set	7430 Aug 29 11:48	26°♎43'56	
direct	7425 Jul 09 05:12	1°♊24'45			7430 Sep 03 07:00	0°♎	
desc. node	7425 Jul 15 05:07	1°♊37'38			7430 Oct 18 08:39	0°♎	
	7425 Oct 03 00:39	0°♊					
	7425 Nov 23 11:35	0°♊		conjunction	7430 Oct 19 13:04	0°♎46'24	0°59'41
	7426 Jan 07 15:46	0°♊		minimum elong	7430 Oct 19 14:08	0°♎48'09	0°59'44
	7426 Feb 18 06:06	0°♊		max. Earth dist.	7430 Nov 03 21:32	10°♎44'52	2.64063 AU
	7426 Mar 29 14:00	0°♊			7430 Dec 03 22:15	0°♊	
evening set	7426 Apr 20 23:45	17°♊33'53		morning rise	7430 Dec 05 07:31	0°♊52'55	
	7426 May 06 17:05	0°♊			7431 Jan 20 13:07	0°♊	
asc. node	7426 Jun 12 05:36	28°♊54'11		desc. node	7431 Mar 06 23:28	28°♊06'29	
	7426 Jun 13 15:03	0°♊			7431 Mar 10 01:43	0°♊	
					7431 Apr 29 03:39	0°♊	
conjunction	7426 Jun 30 06:11	13°♊01'47	0°12'48		7431 Jun 22 21:54	0°♊	
minimum elong	7426 Jun 30 04:50	12°♊59'09	0°12'41	retrograde	7431 Sep 03 02:46	22°♊27'50	
behind sun begin	7426 Jun 29 10:06	12°♊22'38		opposition	7431 Oct 05 01:31	16°♊39'39	-6°03'04
behind sun end	7426 Jun 30 23:35	13°♊35'38		greatest brilliancy	7431 Oct 06 19:25	16°♊07'27	-2.6m
	7426 Jul 22 05:33	0°♎		min. Earth dist.	7431 Oct 12 21:34	14°♊16'19	0.42112 AU
max. Earth dist.	7426 Aug 22 06:48	23°♎21'53	2.41247 AU	direct	7431 Nov 08 09:51	9°♊45'16	
	7426 Aug 31 07:23	0°♎			7432 Jan 07 16:53	0°♊	
morning rise	7426 Sep 06 15:40	4°♎37'12		asc. node	7432 Feb 02 04:39	15°♊38'39	
	7426 Oct 12 11:14	0°♎			7432 Feb 23 12:01	0°♊	
	7426 Nov 26 04:26	0°♎			7432 Apr 05 20:58	0°♊	
	7427 Jan 13 04:28	0°♊			7432 May 17 22:53	0°♎	
	7427 Mar 08 06:05	0°♊			7432 Jun 30 01:48	0°♎	
retrograde	7427 May 24 07:46	24°♊02'49			7432 Aug 13 17:12	0°♎	
desc. node	7427 Jun 02 03:56	23°♊33'48			7432 Sep 28 18:38	0°♎	
opposition	7427 Jul 02 13:07	15°♊02'57	-1°04'56	evening set	7432 Oct 10 08:07	7°♎25'14	
greatest brilliancy	7427 Jul 02 16:33	14°♊59'37	-1.4m		7432 Nov 14 18:11	0°♊	
min. Earth dist.	7427 Jul 06 16:34	13°♊26'20	0.65016 AU				
direct	7427 Aug 13 02:46	5°♊00'01		conjunction	7432 Nov 25 10:14	6°♊46'32	0°29'09
	7427 Oct 28 01:41	0°♊		minimum elong	7432 Nov 25 11:04	6°♊47'51	0°29'15
	7427 Dec 16 12:08	0°♊		max. Earth dist.	7432 Nov 26 03:32	7°♊13'58	2.67957 AU
	7428 Jan 28 07:09	0°♊			7432 Dec 31 23:41	0°♊	
	7428 Mar 08 00:09	0°♊		morning rise	7433 Jan 08 08:52	4°♊42'05	
	7428 Apr 15 07:29	0°♊		desc. node	7433 Jan 21 21:35	13°♊20'05	
asc. node	7428 Apr 29 05:17	10°♊58'13			7433 Feb 16 21:30	0°♊	
	7428 May 23 10:29	0°♊			7433 Apr 04 05:13	0°♊	
	7428 Jul 01 08:33	0°♎			7433 May 19 23:18	0°♊	
evening set	7428 Jul 03 01:24	1°♎17'21			7433 Jul 04 12:02	0°♊	
	7428 Aug 10 19:40	0°♎			7433 Aug 20 01:56	0°♊	
					7433 Oct 13 17:54	0°♊	
conjunction	7428 Sep 02 21:36	16°♎29'25	1°04'10	retrograde	7433 Nov 22 06:56	9°♊26'16	
minimum elong	7428 Sep 02 20:26	16°♎27'21	1°04'08	min. Earth dist.	7433 Dec 19 02:43	5°♊02'12	0.37540 AU
	7428 Sep 22 07:00	0°♎		asc. node	7433 Dec 20 04:47	4°♊44'10	
max. Earth dist.	7428 Oct 07 00:03	10°♎03'05	2.54760 AU	opposition	7433 Dec 23 11:04	3°♊49'24	0°14'45
morning rise	7428 Oct 27 01:55	23°♎30'34		greatest brilliancy	7433 Dec 23 09:53	3°♊50'14	-3.0m
	7428 Nov 05 21:58	0°♎			7434 Jan 08 07:39	30°♎♊	
	7428 Dec 22 15:59	0°♊		direct	7434 Jan 21 22:58	28°♊47'34	
	7429 Feb 09 18:24	0°♊			7434 Feb 04 14:08	0°♊	
	7429 Apr 03 23:43	0°♊			7434 Apr 15 21:08	0°♎	
desc. node	7429 Apr 19 01:56	7°♊41'26			7434 Jun 05 00:11	0°♎	
	7429 Jun 18 17:51	0°♊			7434 Jul 23 06:36	0°♎	
retrograde	7429 Jul 04 23:59	1°♊28'58			7434 Sep 09 09:51	0°♎	
	7429 Jul 20 08:14	30°♎♊			7434 Oct 27 11:03	0°♊	
opposition	7429 Aug 10 12:17	23°♊40'05	-4°04'37	evening set	7434 Nov 16 06:21	12°♊26'59	
greatest brilliancy	7429 Aug 11 13:37	23°♊16'45	-1.8m	desc. node	7434 Dec 09 20:01	27°♊23'27	
min. Earth dist.	7429 Aug 18 02:11	20°♊52'46	0.55573 AU		7434 Dec 13 22:10	0°♊	
direct	7429 Sep 19 10:52	14°♊13'17		max. Earth dist.	7434 Dec 18 18:31	3°♊06'03	2.66344 AU
	7429 Nov 12 23:44	0°♊					
	7430 Jan 01 22:00	0°♊		conjunction	7434 Dec 30 22:14	10°♊54'44	-0°11'09
	7430 Feb 12 18:20	0°♊		minimum elong	7434 Dec 30 21:54	10°♊54'11	0°11'02
asc. node	7430 Mar 17 04:25	24°♊38'48		behind sun begin	7434 Dec 30 08:12	10°♊32'07	
	7430 Mar 24 03:12	0°♊		behind sun end	7434 Dec 31 11:36	11°♊16'15	
	7430 May 02 01:51	0°♊			7435 Jan 29 05:49	0°♊	

morning rise	7435 Feb 13 05:18	9° \approx 54'21		min. Earth dist.	7440 May 14 22:01	28° \mathbb{M} 57'16	0.67504 AU
	7435 Mar 15 01:54	0° \mathbb{H}		opposition	7440 May 16 01:02	28° \mathbb{M} 30'19	2°30'17
	7435 Apr 27 08:20	0° \mathbb{Y}		greatest brilliancy	7440 May 15 22:58	28° \mathbb{M} 32'22	-1.3m
	7435 Jun 08 04:18	0° \mathbb{B}		direct	7440 Jun 25 13:01	18° \mathbb{M} 50'54	
	7435 Jul 18 22:36	0° \mathbb{II}		desc. node	7440 Jul 31 18:25	25° \mathbb{M} 25'51	
	7435 Aug 28 10:07	0° \mathbb{G}			7440 Aug 13 10:26	0° \mathbb{X}	
	7435 Oct 09 05:36	0° \mathbb{Q}			7440 Oct 13 03:59	0° \mathbb{Z}	
asc. node	7435 Nov 07 02:29	18° \mathbb{Q} 58'15			7440 Dec 01 13:45	0° \approx	
	7435 Nov 26 03:21	0° \mathbb{P}			7441 Jan 15 05:13	0° \mathbb{H}	
retrograde	7436 Jan 20 21:56	17° \mathbb{P} 38'49			7441 Feb 25 17:05	0° \mathbb{Y}	
min. Earth dist.	7436 Feb 19 00:28	11° \mathbb{P} 45'51	0.49549 AU	evening set	7441 Mar 25 10:27	20° \mathbb{Y} 59'57	
greatest brilliancy	7436 Feb 25 18:16	9° \mathbb{P} 17'58	-2.2m		7441 Apr 06 01:57	0° \mathbb{B}	
opposition	7436 Feb 27 05:57	8° \mathbb{P} 45'06	5°03'52		7441 May 14 06:21	0° \mathbb{II}	
direct	7436 Apr 01 07:23	1° \mathbb{P} 28'58					
	7436 Jun 24 10:39	0° \mathbb{L}		conjunction	7441 May 30 20:05	13° \mathbb{II} 07'26	-0°20'36
	7436 Aug 17 16:34	0° \mathbb{M}		minimum elong	7441 May 30 22:13	13° \mathbb{II} 11'40	0°20'39
	7436 Oct 07 05:25	0° \mathbb{X}		max. Earth dist.	7441 Jun 21 11:04	0° \mathbb{G} 12'35	2.36775 AU
desc. node	7436 Oct 26 19:28	11° \mathbb{X} 59'10			7441 Jun 21 04:40	0° \mathbb{G}	
	7436 Nov 24 15:20	0° \mathbb{Z}		asc. node	7441 Jun 28 21:59	6° \mathbb{G} 04'01	
evening set	7436 Dec 21 15:59	17° \mathbb{Z} 19'41			7441 Jul 29 18:14	0° \mathbb{Q}	
	7437 Jan 09 23:28	0° \approx		morning rise	7441 Aug 11 08:13	9° \mathbb{Q} 34'55	
max. Earth dist.	7437 Jan 11 18:00	1° \approx 10'30	2.59368 AU		7441 Sep 07 18:15	0° \mathbb{P}	
					7441 Oct 19 21:30	0° \mathbb{L}	
conjunction	7437 Feb 05 23:08	18° \approx 08'53	-0°49'29		7441 Dec 03 20:16	0° \mathbb{M}	
minimum elong	7437 Feb 05 21:52	18° \approx 06'43	0°49'25		7442 Jan 21 22:32	0° \mathbb{X}	
	7437 Feb 23 03:59	0° \mathbb{H}			7442 Mar 22 16:23	0° \mathbb{Z}	
morning rise	7437 Mar 26 17:18	22° \mathbb{H} 20'11		retrograde	7442 May 10 00:54	11° \mathbb{Z} 10'12	
	7437 Apr 06 07:20	0° \mathbb{Y}		opposition	7442 Jun 18 20:29	1° \mathbb{Z} 51'32	-0°00'15
	7437 May 16 17:26	0° \mathbb{B}		desc. node	7442 Jun 18 17:36	1° \mathbb{Z} 54'22	
	7437 Jun 24 22:47	0° \mathbb{II}		greatest brilliancy	7442 Jun 18 20:35	1° \mathbb{Z} 51'26	-1.4m
	7437 Aug 02 17:05	0° \mathbb{G}		min. Earth dist.	7442 Jun 21 12:38	0° \mathbb{Z} 48'32	0.66998 AU
	7437 Sep 10 23:23	0° \mathbb{Q}			7442 Jun 23 14:21	30° \mathbb{R} \mathbb{X}	
asc. node	7437 Sep 24 01:31	9° \mathbb{Q} 45'45		direct	7442 Jul 30 10:10	21° \mathbb{X} 49'20	
	7437 Oct 22 01:52	0° \mathbb{P}			7442 Sep 08 14:08	0° \mathbb{Z}	
	7437 Dec 06 13:40	0° \mathbb{L}			7442 Nov 08 08:06	0° \approx	
	7438 Feb 09 00:46	0° \mathbb{M}			7442 Dec 25 08:28	0° \mathbb{H}	
retrograde	7438 Mar 02 12:18	2° \mathbb{M} 52'23			7443 Feb 05 11:41	0° \mathbb{Y}	
	7438 Mar 22 17:25	30° \mathbb{R} \mathbb{L}			7443 Mar 16 23:12	0° \mathbb{B}	
min. Earth dist.	7438 Apr 06 10:39	24° \mathbb{L} 53'36	0.61465 AU		7443 Apr 24 03:29	0° \mathbb{II}	
opposition	7438 Apr 11 09:16	22° \mathbb{L} 55'57	4°29'03	greatest brilliancy	7443 Apr 29 21:30	4° \mathbb{II} 33'05	1.2m
greatest brilliancy	7438 Apr 10 14:59	23° \mathbb{L} 14'07	-1.6m	asc. node	7443 May 16 21:02	17° \mathbb{II} 58'55	
direct	7438 May 19 09:33	14° \mathbb{L} 06'43			7443 Jun 01 03:15	0° \mathbb{G}	
	7438 Jul 18 10:12	0° \mathbb{M}		evening set	7443 Jun 06 00:48	3° \mathbb{G} 50'18	
desc. node	7438 Sep 13 18:54	29° \mathbb{M} 06'08			7443 Jul 09 21:10	0° \mathbb{Q}	
	7438 Sep 15 09:24	0° \mathbb{X}					
	7438 Nov 05 07:34	0° \mathbb{Z}		conjunction	7443 Aug 12 03:23	24° \mathbb{Q} 52'57	0°52'30
	7438 Dec 22 09:05	0° \approx		minimum elong	7443 Aug 12 00:48	24° \mathbb{Q} 48'13	0°52'26
evening set	7439 Jan 31 16:48	27° \approx 22'26			7443 Aug 19 03:21	0° \mathbb{P}	
	7439 Feb 04 10:48	0° \mathbb{H}		max. Earth dist.	7443 Sep 24 01:15	25° \mathbb{P} 34'38	2.49818 AU
max. Earth dist.	7439 Feb 14 13:05	7° \mathbb{H} 08'01	2.47674 AU		7443 Sep 30 10:16	0° \mathbb{L}	
	7439 Mar 18 01:01	0° \mathbb{Y}		morning rise	7443 Oct 10 03:22	6° \mathbb{L} 40'29	
					7443 Nov 13 23:51	0° \mathbb{M}	
conjunction	7439 Mar 25 09:15	5° \mathbb{Y} 27'22	-1°06'11		7443 Dec 31 00:40	0° \mathbb{X}	
minimum elong	7439 Mar 25 09:40	5° \mathbb{Y} 28'07	1°06'12		7444 Feb 19 07:12	0° \mathbb{Z}	
	7439 Apr 26 17:53	0° \mathbb{B}			7444 Apr 17 07:27	0° \approx	
morning rise	7439 May 25 19:36	22° \mathbb{B} 35'17		desc. node	7444 May 05 16:31	7° \approx 27'07	
	7439 Jun 04 06:23	0° \mathbb{II}		retrograde	7444 Jun 17 01:29	16° \approx 10'44	
greatest brilliancy	7439 Jul 04 20:31	24° \mathbb{II} 03'37	1.2m	opposition	7444 Jul 24 20:18	7° \approx 49'14	-2°53'51
	7439 Jul 12 10:07	0° \mathbb{G}		greatest brilliancy	7444 Jul 25 11:01	7° \approx 35'17	-1.6m
asc. node	7439 Aug 12 00:25	23° \mathbb{G} 48'17		min. Earth dist.	7444 Jul 31 04:13	5° \approx 25'20	0.59980 AU
	7439 Aug 20 02:10	0° \mathbb{Q}			7444 Aug 17 09:37	30° \mathbb{R} \mathbb{Z}	
	7439 Sep 29 04:48	0° \mathbb{P}		direct	7444 Sep 03 17:49	27° \mathbb{Z} 59'26	
	7439 Nov 10 20:11	0° \mathbb{L}			7444 Sep 21 20:33	0° \approx	
	7439 Dec 27 20:56	0° \mathbb{M}			7444 Nov 28 04:35	0° \mathbb{H}	
	7440 Feb 25 15:11	0° \mathbb{X}			7445 Jan 12 12:55	0° \mathbb{Y}	
retrograde	7440 Apr 05 13:33	8° \mathbb{X} 21'32			7445 Feb 22 03:31	0° \mathbb{B}	
	7440 May 12 06:48	30° \mathbb{R} \mathbb{M}			7445 Apr 01 22:02	0° \mathbb{II}	

asc. node	7445 Apr 02 21:30	0°♄45'50	behind sun end	7449 Dec 17 20:37	28°♄14'04
	7445 May 10 09:57	0°♅		7449 Dec 20 15:00	0°♅
	7445 Jun 18 17:21	0°♆	desc. node	7449 Dec 26 10:03	3°♅42'12
	7445 Jul 29 14:13	0°♇	morning rise	7450 Jan 29 20:54	25°♅56'00
evening set	7445 Aug 09 11:22	7°♇45'23		7450 Feb 05 02:34	0°♆
	7445 Sep 10 10:21	0°♁		7450 Mar 22 09:50	0°♇
				7450 May 05 10:07	0°♈
conjunction	7445 Oct 02 22:11	15°♁12'47 1°05'50		7450 Jun 17 05:55	0°♉
minimum elong	7445 Oct 02 22:47	15°♁13'46 1°05'52		7450 Jul 29 06:02	0°♊
max. Earth dist.	7445 Oct 24 21:18	29°♁45'35 2.61057 AU		7450 Sep 09 11:57	0°♋
	7445 Oct 25 06:05	0°♌		7450 Oct 25 04:21	0°♌
morning rise	7445 Nov 20 21:10	17°♌17'00	asc. node	7450 Nov 23 21:00	15°♌35'19
	7445 Dec 10 19:16	0°♍	retrograde	7450 Dec 31 17:41	24°♌44'32
	7446 Jan 27 19:22	0°♎	min. Earth dist.	7451 Jan 27 16:23	19°♌45'38 0.44042 AU
	7446 Mar 18 12:33	0°♏	greatest brilliancy	7451 Feb 03 18:16	17°♌22'29 -2.5m
desc. node	7446 Mar 23 14:27	2°♏58'48	opposition	7451 Feb 05 02:40	16°♌54'59 4°13'27
	7446 May 10 23:15	0°♐	direct	7451 Mar 09 03:11	10°♌32'43
	7446 Aug 01 13:16	0°♑		7451 May 12 20:06	0°♒
retrograde	7446 Aug 07 15:03	0°♑13'28		7451 Jul 07 09:26	0°♓
	7446 Aug 13 14:07	30°♒♐		7451 Aug 27 06:12	0°♌
opposition	7446 Sep 10 13:36	23°♒31'51 -5°41'41		7451 Oct 15 13:26	0°♍
greatest brilliancy	7446 Sep 12 07:01	22°♒56'40 -2.2m	desc. node	7451 Nov 13 09:02	17°♒55'07
min. Earth dist.	7446 Sep 19 04:21	20°♒37'36 0.47424 AU		7451 Dec 02 12:05	0°♎
direct	7446 Oct 17 16:45	15°♒19'17	evening set	7451 Dec 08 07:04	3°♎41'29
	7446 Dec 07 06:01	0°♑	max. Earth dist.	7452 Jan 02 15:21	20°♎03'04 2.62714 AU
	7447 Jan 25 05:06	0°♒		7452 Jan 17 18:47	0°♏
asc. node	7447 Feb 18 20:33	17°♒27'46			
	7447 Mar 07 23:07	0°♊	conjunction	7452 Jan 22 13:04	3°♏09'24 -0°35'46
	7447 Apr 17 06:50	0°♋	minimum elong	7452 Jan 22 12:02	3°♏07'41 0°35'40
	7447 May 28 01:50	0°♌		7452 Mar 02 04:12	0°♐
	7447 Jul 09 06:02	0°♍	morning rise	7452 Mar 08 21:18	4°♐39'13
	7447 Aug 22 04:23	0°♁		7452 Apr 13 16:26	0°♑
evening set	7447 Sep 25 18:11	22°♁50'38		7452 May 24 13:26	0°♒
	7447 Oct 06 18:08	0°♌		7452 Jul 03 05:58	0°♊
				7452 Aug 11 11:09	0°♋
conjunction	7447 Nov 12 06:11	23°♌28'11 0°42'47		7452 Sep 20 06:44	0°♌
minimum elong	7447 Nov 12 07:17	23°♌29'56 0°42'51	asc. node	7452 Oct 10 19:02	14°♌54'56
max. Earth dist.	7447 Nov 18 12:16	27°♌27'29 2.67096 AU		7452 Nov 01 11:21	0°♍
	7447 Nov 22 12:02	0°♍		7452 Dec 20 22:37	0°♁
morning rise	7447 Dec 26 21:19	21°♍49'36	retrograde	7453 Feb 15 12:52	17°♁09'20
	7448 Jan 08 19:08	0°♎	min. Earth dist.	7453 Mar 20 07:49	9°♁54'35 0.57373 AU
desc. node	7448 Feb 08 11:53	19°♎25'59	opposition	7453 Mar 26 17:01	7°♁25'04 4°59'12
	7448 Feb 25 04:14	0°♏	greatest brilliancy	7453 Mar 25 14:32	7°♁50'59 -1.8m
	7448 Apr 12 12:48	0°♐		7453 Apr 20 15:45	30°♒♐
	7448 May 30 05:38	0°♑	direct	7453 May 02 08:06	29°♐05'47
	7448 Jul 18 16:18	0°♒		7453 May 14 15:02	0°♓
	7448 Sep 16 08:16	0°♊		7453 Jul 31 22:45	0°♌
retrograde	7448 Oct 21 18:49	7°♊13'59		7453 Sep 24 01:30	0°♍
opposition	7448 Nov 20 16:01	2°♊18'55 -3°24'59	desc. node	7453 Sep 30 08:21	3°♍41'14
greatest brilliancy	7448 Nov 21 00:09	2°♊13'31 -3.0m		7453 Nov 12 17:18	0°♎
min. Earth dist.	7448 Nov 21 23:12	1°♊58'14 0.36835 AU		7453 Dec 29 09:57	0°♏
	7448 Nov 29 18:12	30°♒♑	evening set	7454 Jan 14 18:57	10°♏56'49
direct	7448 Dec 20 11:56	27°♒18'17	max. Earth dist.	7454 Jan 30 10:26	21°♏37'30 2.52702 AU
asc. node	7449 Jan 05 20:34	29°♒04'35		7454 Feb 11 11:49	0°♐
	7449 Jan 09 20:03	0°♊			
	7449 Mar 14 01:46	0°♋	conjunction	7454 Mar 05 04:33	15°♐23'43 -1°04'26
	7449 Apr 30 10:23	0°♌	minimum elong	7454 Mar 05 03:44	15°♐22'16 1°04'25
	7449 Jun 15 07:59	0°♍		7454 Mar 25 06:14	0°♑
	7449 Jul 31 16:15	0°♁	morning rise	7454 Apr 29 08:28	26°♑18'02
	7449 Sep 16 18:54	0°♌		7454 May 04 04:48	0°♒
evening set	7449 Nov 02 06:04	29°♌19'36		7454 Jun 11 22:42	0°♊
	7449 Nov 03 07:40	0°♍		7454 Jul 20 06:38	0°♋
max. Earth dist.	7449 Dec 09 20:08	23°♍07'35 2.67635 AU	asc. node	7454 Aug 28 16:32	0°♌27'26
				7454 Aug 28 02:07	0°♌
conjunction	7449 Dec 17 02:46	27°♍45'38 0°04'56		7454 Oct 07 09:46	0°♍
minimum elong	7449 Dec 17 02:54	27°♍45'50 0°05'02		7454 Nov 19 15:01	0°♁
behind sun begin	7449 Dec 16 09:11	27°♍17'37		7455 Jan 07 21:18	0°♌

retrograde	7455 Mar 24 06:46	25° \mathbb{M} 20'29			7460 Jun 26 10:11	0° \mathcal{Q}	
min. Earth dist.	7455 May 01 01:11	16° \mathbb{M} 25'59	0.65903 AU	evening set	7460 Jul 17 13:48	15° \mathcal{Q} 48'46	
opposition	7455 May 03 16:13	15° \mathbb{M} 22'59	3°21'14		7460 Aug 05 23:44	0° \mathbb{P}	
greatest brilliancy	7455 May 03 09:07	15° \mathbb{M} 30'06	-1.4m				
direct	7455 Jun 12 08:38	5° \mathbb{M} 59'45		conjunction	7460 Sep 14 11:37	27° \mathbb{P} 53'31	1°06'47
desc. node	7455 Aug 18 08:17	24° \mathbb{M} 51'52		minimum elong	7460 Sep 14 11:14	27° \mathbb{P} 52'51	1°06'48
	7455 Aug 29 03:27	0° \mathcal{X}			7460 Sep 17 13:03	0° \mathcal{A}	
	7455 Oct 23 00:35	0° \mathcal{Z}		max. Earth dist.	7460 Oct 13 23:35	17° \mathcal{A} 55'49	2.57238 AU
	7455 Dec 10 05:23	0° \approx			7460 Nov 01 04:38	0° \mathbb{M}	
	7456 Jan 23 13:35	0° \mathcal{H}		morning rise	7460 Nov 05 11:28	2° \mathbb{M} 48'36	
evening set	7456 Mar 02 05:59	27° \mathcal{H} 54'42			7460 Dec 17 19:26	0° \mathcal{X}	
	7456 Mar 05 01:31	0° \mathcal{Y}			7461 Feb 04 09:31	0° \mathcal{Z}	
max. Earth dist.	7456 Mar 23 10:36	13° \mathcal{Y} 48'50	2.39546 AU		7461 Mar 27 23:03	0° \approx	
	7456 Apr 13 12:53	0° \mathcal{B}		desc. node	7461 Apr 09 04:46	6° \approx 40'49	
					7461 May 27 21:10	0° \mathcal{H}	
conjunction	7456 May 01 17:19	14° \mathcal{B} 10'35	-0°48'04	retrograde	7461 Jul 16 05:20	11° \mathcal{H} 27'11	
minimum elong	7456 May 01 20:21	14° \mathcal{B} 16'32	0°48'07	opposition	7461 Aug 20 21:39	3° \mathcal{H} 59'28	-4°43'34
	7456 May 21 19:44	0° \mathbb{I}		greatest brilliancy	7461 Aug 22 05:25	3° \mathcal{H} 30'49	-2.0m
	7456 Jun 28 19:10	0° \mathcal{G}		min. Earth dist.	7461 Aug 29 00:11	1° \mathcal{H} 04'32	0.52834 AU
morning rise	7456 Jul 12 02:58	10° \mathcal{G} 27'10			7461 Sep 01 03:29	30° \mathcal{R} \approx	
asc. node	7456 Jul 15 15:29	13° \mathcal{G} 12'13		direct	7461 Sep 29 00:48	24° \approx 52'31	
	7456 Aug 06 08:25	0° \mathcal{Q}			7461 Oct 27 21:18	0° \mathcal{H}	
	7456 Sep 15 07:39	0° \mathbb{P}			7461 Dec 25 03:00	0° \mathcal{Y}	
	7456 Oct 27 12:16	0° \mathcal{A}			7462 Feb 06 08:21	0° \mathcal{B}	
	7456 Dec 11 21:53	0° \mathbb{M}		asc. node	7462 Mar 07 14:03	21° \mathcal{B} 51'25	
	7457 Jan 31 22:11	0° \mathcal{X}			7462 Mar 18 06:54	0° \mathbb{I}	
retrograde	7457 Apr 26 09:45	28° \mathcal{X} 36'03			7462 Apr 26 13:40	0° \mathcal{G}	
opposition	7457 Jun 05 14:56	19° \mathcal{X} 02'02	1°00'58		7462 Jun 05 13:33	0° \mathcal{Q}	
greatest brilliancy	7457 Jun 05 16:16	19° \mathcal{X} 00'43	-1.3m		7462 Jul 17 01:50	0° \mathbb{P}	
min. Earth dist.	7457 Jun 06 19:29	18° \mathcal{X} 33'46	0.67981 AU		7462 Aug 29 11:12	0° \mathcal{A}	
desc. node	7457 Jul 05 08:19	9° \mathcal{X} 56'52		evening set	7462 Sep 08 21:44	7° \mathcal{A} 01'42	
direct	7457 Jul 16 22:39	9° \mathcal{X} 05'34			7462 Oct 13 15:58	0° \mathbb{M}	
	7457 Sep 25 04:46	0° \mathcal{Z}					
	7457 Nov 17 18:57	0° \approx		conjunction	7462 Oct 28 11:18	9° \mathbb{M} 36'51	0°54'17
	7458 Jan 02 12:38	0° \mathcal{H}		minimum elong	7462 Oct 28 12:28	9° \mathbb{M} 38'44	0°54'20
	7458 Feb 13 07:14	0° \mathcal{Y}		max. Earth dist.	7462 Nov 09 09:57	17° \mathbb{M} 18'38	2.65387 AU
	7458 Mar 24 16:32	0° \mathcal{B}			7462 Nov 29 06:10	0° \mathcal{X}	
	7458 May 01 20:03	0° \mathbb{I}		morning rise	7462 Dec 13 07:14	8° \mathcal{X} 55'24	
evening set	7458 May 07 07:51	4° \mathbb{I} 21'07			7463 Jan 15 17:09	0° \mathcal{Z}	
asc. node	7458 Jun 02 13:41	25° \mathbb{I} 07'11		desc. node	7463 Feb 25 02:10	25° \mathcal{Z} 14'36	
	7458 Jun 08 18:21	0° \mathcal{G}			7463 Mar 04 17:51	0° \approx	
					7463 Apr 22 14:23	0° \mathcal{H}	
conjunction	7458 Jul 16 16:41	29° \mathcal{G} 27'43	0°30'04		7463 Jun 12 17:32	0° \mathcal{Y}	
minimum elong	7458 Jul 16 14:01	29° \mathcal{G} 22'38	0°29'57		7463 Aug 13 16:26	0° \mathcal{B}	
	7458 Jul 17 09:34	0° \mathcal{Q}		retrograde	7463 Sep 20 04:41	7° \mathcal{B} 31'26	
	7458 Aug 26 12:06	0° \mathbb{P}		opposition	7463 Oct 20 23:24	2° \mathcal{B} 11'22	-5°40'02
max. Earth dist.	7458 Sep 05 12:25	7° \mathbb{P} 16'24	2.44341 AU	greatest brilliancy	7463 Oct 22 09:33	1° \mathcal{B} 46'45	-2.8m
morning rise	7458 Sep 19 16:00	17° \mathbb{P} 23'37		min. Earth dist.	7463 Oct 27 06:48	0° \mathcal{B} 22'41	0.39598 AU
	7458 Oct 07 15:43	0° \mathcal{A}			7463 Oct 28 15:19	30° \mathcal{R} \mathcal{Y}	
	7458 Nov 21 05:53	0° \mathbb{M}		direct	7463 Nov 22 14:41	26° \mathcal{Y} 05'01	
	7459 Jan 07 18:12	0° \mathcal{X}			7463 Dec 16 20:35	0° \mathcal{B}	
	7459 Feb 28 22:51	0° \mathcal{Z}		asc. node	7464 Jan 23 14:05	17° \mathcal{B} 13'04	
	7459 May 13 07:05	0° \approx			7464 Feb 13 17:09	0° \mathbb{I}	
desc. node	7459 May 23 06:53	1° \approx 35'27			7464 Mar 29 11:20	0° \mathcal{G}	
retrograde	7459 Jun 01 22:10	2° \approx 07'40			7464 May 11 16:34	0° \mathcal{Q}	
	7459 Jun 20 07:20	30° \mathcal{R} \mathcal{Z}			7464 Jun 24 12:24	0° \mathbb{P}	
opposition	7459 Jul 10 16:36	23° \mathcal{Z} 19'57	-1°44'11		7464 Aug 08 14:46	0° \mathcal{A}	
greatest brilliancy	7459 Jul 10 23:19	23° \mathcal{Z} 13'29	-1.5m		7464 Sep 23 23:17	0° \mathbb{M}	
min. Earth dist.	7459 Jul 15 15:06	21° \mathcal{Z} 25'35	0.63494 AU	evening set	7464 Oct 18 20:35	15° \mathbb{M} 52'29	
direct	7459 Aug 21 02:31	13° \mathcal{Z} 19'09			7464 Nov 10 02:34	0° \mathcal{X}	
	7459 Oct 19 01:49	0° \approx		max. Earth dist.	7464 Dec 01 05:50	13° \mathcal{X} 24'26	2.68076 AU
	7459 Dec 10 07:56	0° \mathcal{H}					
	7460 Jan 22 19:14	0° \mathcal{Y}		conjunction	7464 Dec 03 09:12	14° \mathcal{X} 45'55	0°20'28
	7460 Mar 02 18:21	0° \mathcal{B}		minimum elong	7464 Dec 03 09:48	14° \mathcal{X} 46'52	0°20'33
	7460 Apr 10 04:42	0° \mathbb{I}			7464 Dec 27 08:10	0° \mathcal{Z}	
asc. node	7460 Apr 19 12:54	7° \mathbb{I} 21'11		desc. node	7465 Jan 11 23:35	9° \mathcal{Z} 59'21	
	7460 May 18 09:49	0° \mathcal{G}		morning rise	7465 Jan 16 03:00	12° \mathcal{Z} 38'36	

	7465 Feb 12 01:56	0°♊			7470 Jul 05 22:10	0°♎
	7465 Mar 29 23:49	0°♋		desc. node	7470 Sep 03 21:58	27°♎14'17
	7465 May 14 00:18	0°♌			7470 Sep 09 01:42	0°♏
	7465 Jun 27 07:39	0°♍			7470 Oct 31 03:01	0°♐
	7465 Aug 10 13:15	0°♎			7470 Dec 17 13:37	0°♑
	7465 Sep 26 04:52	0°♏			7471 Jan 30 17:52	0°♋
retrograde	7465 Dec 07 19:12	27°♏18'04		evening set	7471 Feb 11 02:07	8°♋01'19
asc. node	7465 Dec 10 12:48	27°♏14'48		max. Earth dist.	7471 Feb 25 06:30	18°♋13'39 2.44706 AU
min. Earth dist.	7466 Jan 02 23:08	22°♏53'28 0.39309 AU			7471 Mar 13 07:28	0°♌
opposition	7466 Jan 09 13:18	20°♏54'39 2°06'48				
greatest brilliancy	7466 Jan 08 22:54	21°♏05'30 -2.9m		conjunction	7471 Apr 07 05:05	18°♌42'54 -1°03'02
direct	7466 Feb 08 16:43	15°♏28'44		minimum elong	7471 Apr 07 06:30	18°♌45'37 1°03'04
	7466 Apr 02 16:33	0°♐			7471 Apr 21 22:23	0°♍
	7466 May 28 09:22	0°♑			7471 May 30 08:45	0°♎
	7466 Jul 17 08:07	0°♒		morning rise	7471 Jun 11 15:41	9°♎41'11
	7466 Sep 04 05:48	0°♓			7471 Jul 07 10:31	0°♏
	7466 Oct 22 16:05	0°♏		asc. node	7471 Aug 02 07:17	20°♏11'25
evening set	7466 Nov 24 06:18	20°♏27'40			7471 Aug 15 00:51	0°♐
desc. node	7466 Nov 29 22:30	24°♏03'25			7471 Sep 24 01:10	0°♑
	7466 Dec 09 06:44	0°♑			7471 Nov 05 10:21	0°♒
max. Earth dist.	7466 Dec 24 03:14	9°♑31'05 2.65276 AU			7471 Dec 21 15:12	0°♓
					7472 Feb 14 10:38	0°♏
conjunction	7467 Jan 08 00:07	19°♑08'34 -0°20'28		retrograde	7472 Apr 13 03:24	16°♏05'28
minimum elong	7467 Jan 07 23:30	19°♑07'34 0°20'21		opposition	7472 May 23 13:28	6°♏19'25 1°58'26
	7467 Jan 24 14:05	0°♒		min. Earth dist.	7472 May 23 06:00	6°♏26'51 0.67963 AU
morning rise	7467 Feb 21 19:55	18°♒49'47		greatest brilliancy	7472 May 23 13:17	6°♏19'36 -1.3m
	7467 Mar 10 06:26	0°♋			7472 Jun 10 02:25	30°♋♎
	7467 Apr 22 06:14	0°♌		direct	7472 Jul 03 09:42	26°♎32'57
	7467 Jun 02 17:22	0°♍		desc. node	7472 Jul 21 21:41	28°♎26'40
	7467 Jul 13 01:05	0°♎			7472 Jul 28 20:03	0°♏
	7467 Aug 21 22:39	0°♏			7472 Oct 06 16:49	0°♑
	7467 Oct 01 17:50	0°♐			7472 Nov 26 06:54	0°♒
asc. node	7467 Oct 28 11:55	18°♐32'08			7473 Jan 10 07:08	0°♋
	7467 Nov 15 08:10	0°♑			7473 Feb 20 21:36	0°♌
retrograde	7468 Jan 31 03:34	29°♑26'02			7473 Apr 01 06:42	0°♍
min. Earth dist.	7468 Mar 01 14:21	23°♑02'09 0.52496 AU		evening set	7473 Apr 08 22:52	5°♍58'47
greatest brilliancy	7468 Mar 07 20:49	20°♑40'16 -2.0m			7473 May 09 10:36	0°♎
opposition	7468 Mar 09 06:25	20°♑08'23 5°11'05			7473 Jun 16 08:15	0°♏
direct	7468 Apr 13 07:13	12°♑27'00				
	7468 Jun 14 16:42	0°♒		conjunction	7473 Jun 17 00:13	0°♏31'25 -0°01'40
	7468 Aug 11 11:37	0°♓		minimum elong	7473 Jun 17 00:25	0°♏31'47 0°01'46
	7468 Oct 02 01:00	0°♏		behind sun begin	7473 Jun 15 18:08	29°♎32'11
desc. node	7468 Oct 16 22:26	9°♏00'01		behind sun end	7473 Jun 18 06:41	1°♏31'21
	7468 Nov 19 20:24	0°♑		asc. node	7473 Jun 19 06:36	2°♏18'26
evening set	7468 Dec 30 04:30	25°♑57'19			7473 Jul 24 21:26	0°♐
	7469 Jan 05 07:33	0°♒		max. Earth dist.	7473 Aug 06 11:14	9°♐34'32 2.38895 AU
max. Earth dist.	7469 Jan 18 04:41	8°♒35'33 2.57168 AU		morning rise	7473 Aug 26 17:52	24°♐44'42
					7473 Sep 02 21:14	0°♑
conjunction	7469 Feb 15 08:57	27°♒50'35 -0°56'14			7473 Oct 14 23:03	0°♒
minimum elong	7469 Feb 15 07:42	27°♒48'25 0°56'10			7473 Nov 28 16:35	0°♓
	7469 Feb 18 11:22	0°♋			7474 Jan 15 24:00	0°♏
	7469 Apr 01 11:47	0°♌			7474 Mar 12 16:29	0°♑
morning rise	7469 Apr 06 23:51	4°♌01'57		retrograde	7474 May 18 03:17	18°♑58'22
	7469 May 11 17:53	0°♍		desc. node	7474 Jun 08 20:56	15°♑58'51
	7469 Jun 19 19:10	0°♎		opposition	7474 Jun 26 15:08	9°♑49'38 -0°37'41
	7469 Jul 28 09:16	0°♏		greatest brilliancy	7474 Jun 26 16:48	9°♑48'00 -1.4m
	7469 Sep 05 10:31	0°♐		min. Earth dist.	7474 Jun 30 02:30	8°♑28'08 0.66030 AU
asc. node	7469 Sep 14 10:20	6°♐46'13			7474 Aug 01 06:00	30°♑♏
	7469 Oct 16 03:27	0°♑		direct	7474 Aug 07 05:07	29°♏46'21
	7469 Nov 29 10:36	0°♒			7474 Aug 13 07:20	0°♑
	7470 Jan 22 23:37	0°♓			7474 Nov 01 09:32	0°♒
retrograde	7470 Mar 10 14:50	11°♓38'05			7474 Dec 19 17:57	0°♋
min. Earth dist.	7470 Apr 15 14:31	3°♓18'02 0.63308 AU			7475 Jan 31 07:01	0°♌
opposition	7470 Apr 19 17:37	1°♓39'17 4°06'31			7475 Mar 11 22:20	0°♍
greatest brilliancy	7470 Apr 19 03:40	1°♓53'11 -1.5m			7475 Apr 19 04:34	0°♎
	7470 Apr 23 22:29	30°♓♒		asc. node	7475 May 07 06:45	14°♎17'45
direct	7470 May 28 09:25	22°♒36'35			7475 May 27 05:39	0°♏

evening set	7475 Jun 22 03:28	20°☾08'07			7480 May 23 11:31	0°♊
	7475 Jul 05 00:54	0°♊			7480 Jul 09 08:56	0°♊
	7475 Aug 14 08:33	0°♊			7480 Aug 28 01:08	0°♊
				retrograde	7480 Nov 09 00:37	25°♊46'13
conjunction	7475 Aug 25 10:17	7°♊59'53 1°00'23		min. Earth dist.	7480 Dec 07 07:27	21°♊08'12 0.36789 AU
minimum elong	7475 Aug 25 08:27	7°♊56'36 1°00'20		opposition	7480 Dec 09 06:18	20°♊36'54 -1°22'45
	7475 Sep 25 16:15	0°♊		greatest brilliancy	7480 Dec 09 05:44	20°♊37'17 -3.1m
max. Earth dist.	7475 Oct 02 12:26	4°♊42'28 2.52619 AU		asc. node	7480 Dec 27 06:17	16°♊34'15
morning rise	7475 Oct 20 14:38	16°♊58'53		direct	7481 Jan 07 13:09	15°♊44'13
	7475 Nov 09 05:03	0°♊			7481 Feb 27 16:24	0°☾
	7475 Dec 26 00:08	0°♊			7481 Apr 22 02:22	0°♊
	7476 Feb 13 11:37	0°♊			7481 Jun 08 22:06	0°♊
	7476 Apr 08 04:45	0°♊			7481 Jul 26 04:43	0°♊
desc. node	7476 Apr 25 18:49	8°♊21'08			7481 Sep 11 19:45	0°♊
retrograde	7476 Jun 26 23:58	25°♊10'55			7481 Oct 29 14:58	0°♊
opposition	7476 Aug 03 02:30	17°♊06'27 -3°34'40		evening set	7481 Nov 10 06:53	7°♊20'35
greatest brilliancy	7476 Aug 03 22:59	16°♊47'18 -1.7m		max. Earth dist.	7481 Dec 14 22:43	29°♊18'52 2.67022 AU
min. Earth dist.	7476 Aug 10 03:08	14°♊28'53 0.57652 AU		desc. node	7481 Dec 16 12:58	0°♊19'54
direct	7476 Sep 12 12:12	7°♊27'29			7481 Dec 16 00:30	0°♊
	7476 Nov 19 13:40	0°♊				
	7477 Jan 06 02:40	0°♊		conjunction	7481 Dec 24 23:42	5°♊44'09 -0°04'30
	7477 Feb 16 08:54	0°♊		minimum elong	7481 Dec 24 23:34	5°♊43'57 0°04'24
asc. node	7477 Mar 24 06:00	27°♊30'42		behind sun begin	7481 Dec 24 05:36	5°♊15'11
	7477 Mar 27 11:01	0°♊		behind sun end	7481 Dec 25 17:31	6°♊12'43
	7477 May 05 04:01	0°☾			7482 Jan 31 10:26	0°♊
	7477 Jun 13 15:47	0°♊		morning rise	7482 Feb 06 23:21	4°♊17'44
	7477 Jul 24 16:50	0°♊			7482 Mar 17 11:51	0°♊
evening set	7477 Aug 21 03:17	19°♊18'40			7482 Apr 30 02:25	0°♊
	7477 Sep 05 16:16	0°♊			7482 Jun 11 08:31	0°♊
					7482 Jul 22 14:44	0°♊
conjunction	7477 Oct 12 14:09	24°♊44'38 1°02'47			7482 Sep 01 16:57	0°☾
minimum elong	7477 Oct 12 15:05	24°♊46'11 1°02'49			7482 Oct 14 15:39	0°♊
	7477 Oct 20 14:03	0°♊		asc. node	7482 Nov 14 04:20	18°♊50'42
max. Earth dist.	7477 Oct 30 18:01	6°♊38'15 2.62819 AU			7482 Dec 06 14:28	0°♊
morning rise	7477 Nov 29 05:48	25°♊38'03		retrograde	7483 Jan 12 14:09	8°♊41'03
	7477 Dec 06 02:17	0°♊		min. Earth dist.	7483 Feb 09 15:37	3°♊12'31 0.47092 AU
	7478 Jan 22 20:05	0°♊		greatest brilliancy	7483 Feb 16 14:54	0°♊44'21 -2.3m
	7478 Mar 12 19:17	0°♊		opposition	7483 Feb 18 02:37	0°♊12'25 4°50'01
desc. node	7478 Mar 13 16:11	0°♊31'29			7483 Feb 18 16:36	30°♊
	7478 May 03 01:14	0°♊		direct	7483 Mar 23 07:27	23°♊19'01
	7478 Jul 01 08:54	0°♊			7483 Apr 27 04:00	0°♊
retrograde	7478 Aug 21 22:07	12°♊43'32			7483 Jun 30 01:07	0°♊
opposition	7478 Sep 23 19:24	6°♊30'58 -6°00'28			7483 Aug 21 14:53	0°♊
greatest brilliancy	7478 Sep 25 15:03	5°♊55'45 -2.4m			7483 Oct 10 14:09	0°♊
min. Earth dist.	7478 Oct 02 06:18	3°♊48'40 0.44428 AU		desc. node	7483 Nov 03 12:10	14°♊44'33
	7478 Oct 17 12:36	30°♊			7483 Nov 27 19:32	0°♊
direct	7478 Oct 29 12:16	28°♊59'01		evening set	7483 Dec 16 10:12	11°♊53'26
	7478 Nov 10 16:19	0°♊		max. Earth dist.	7484 Jan 08 10:00	26°♊51'45 2.60969 AU
	7479 Jan 15 20:03	0°♊			7484 Jan 13 04:05	0°♊
asc. node	7479 Feb 09 05:44	16°♊15'44				
	7479 Feb 28 16:58	0°♊		conjunction	7484 Jan 31 04:20	12°♊01'27 -0°44'01
	7479 Apr 10 23:30	0°☾		minimum elong	7484 Jan 31 03:08	11°♊59'26 0°43'55
	7479 May 22 08:43	0°♊			7484 Feb 26 11:47	0°♊
	7479 Jul 03 23:30	0°♊		morning rise	7484 Mar 18 17:29	14°♊52'49
	7479 Aug 17 05:32	0°♊			7484 Apr 08 20:02	0°♊
	7479 Oct 02 00:39	0°♊			7484 May 19 11:25	0°♊
evening set	7479 Oct 04 18:46	1°♊46'45			7484 Jun 27 21:51	0°♊
	7479 Nov 17 20:56	0°♊			7484 Aug 05 20:19	0°☾
					7484 Sep 14 06:44	0°♊
conjunction	7479 Nov 20 10:19	1°♊37'35 0°35'01		asc. node	7484 Oct 01 02:55	12°♊27'18
minimum elong	7479 Nov 20 11:17	1°♊39'07 0°35'06			7484 Oct 25 16:48	0°♊
max. Earth dist.	7479 Nov 23 15:21	3°♊40'01 2.67676 AU			7484 Dec 11 06:16	0°♊
morning rise	7480 Jan 03 14:46	29°♊40'58		retrograde	7485 Feb 24 05:49	26°♊49'45
	7480 Jan 04 02:45	0°♊		min. Earth dist.	7485 Mar 30 05:58	19°♊09'41 0.59758 AU
desc. node	7480 Jan 29 14:33	16°♊12'32		opposition	7485 Apr 04 20:22	16°♊57'02 4°43'40
	7480 Feb 20 05:22	0°♊		greatest brilliancy	7485 Apr 03 22:25	17°♊18'44 -1.6m
	7480 Apr 06 23:14	0°♊		direct	7485 May 12 06:18	8°♊20'22

	7485 Jul 23 17:25	0°♌		conjunction	7490 Aug 01 01:53	14°♏46'00	0°44'14
	7485 Sep 18 08:00	0°♊		minimum elong	7490 Jul 31 22:59	14°♏40'33	0°44'08
desc. node	7485 Sep 20 11:39	1°♊13'46			7490 Aug 21 16:28	0°♐	
	7485 Nov 07 17:25	0°♊		max. Earth dist.	7490 Sep 16 23:17	18°♐53'12	2.47414 AU
	7485 Dec 24 16:24	0°♋		morning rise	7490 Oct 01 15:31	29°♐09'56	
evening set	7486 Jan 24 04:43	20°♋33'08			7490 Oct 02 20:24	0°♑	
	7486 Feb 06 19:30	0°♋			7490 Nov 16 08:32	0°♌	
max. Earth dist.	7486 Feb 07 16:10	0°♋36'10	2.49989 AU		7491 Jan 02 11:56	0°♊	
					7491 Feb 22 09:05	0°♊	
conjunction	7486 Mar 16 06:05	26°♋51'03	-1°06'27		7491 Apr 24 19:20	0°♋	
minimum elong	7486 Mar 16 05:52	26°♋50'38	1°06'27	desc. node	7491 May 13 09:21	6°♋13'41	
	7486 Mar 20 12:49	0°♐		retrograde	7491 Jun 10 23:05	10°♋30'51	
	7486 Apr 29 08:57	0°♏		opposition	7491 Jul 19 04:40	1°♋56'52	-2°24'22
morning rise	7486 May 13 16:25	11°♏01'57		greatest brilliancy	7491 Jul 19 15:34	1°♋46'26	-1.6m
	7486 Jun 07 00:17	0°♐			7491 Jul 24 06:41	30°♏♊	
	7486 Jul 15 05:40	0°♑		min. Earth dist.	7491 Jul 24 21:17	29°♊46'08	0.61672 AU
asc. node	7486 Aug 19 02:06	27°♑03'31		direct	7491 Aug 29 08:17	22°♊00'57	
	7486 Aug 22 22:16	0°♑			7491 Oct 06 16:15	0°♋	
	7486 Oct 02 01:28	0°♐			7491 Dec 03 13:19	0°♋	
	7486 Nov 13 19:41	0°♑			7492 Jan 17 01:21	0°♐	
	7486 Dec 31 11:22	0°♌			7492 Feb 26 09:21	0°♏	
	7487 Mar 07 18:22	0°♊			7492 Apr 05 00:16	0°♐	
retrograde	7487 Mar 31 22:47	3°♊22'13		asc. node	7492 Apr 09 23:02	3°♐52'43	
	7487 Apr 23 09:58	30°♏♌			7492 May 13 08:35	0°♑	
min. Earth dist.	7487 May 09 14:13	24°♌10'54	0.66914 AU		7492 Jun 21 11:40	0°♑	
opposition	7487 May 11 09:42	23°♌27'28	2°52'02	evening set	7492 Jul 30 21:54	29°♑05'55	
greatest brilliancy	7487 May 11 05:38	23°♌31'31	-1.3m		7492 Aug 01 03:55	0°♐	
direct	7487 Jun 20 13:25	13°♌54'52			7492 Sep 12 19:28	0°♑	
desc. node	7487 Aug 08 11:19	25°♌02'53					
	7487 Aug 20 08:06	0°♊		conjunction	7492 Sep 25 05:17	8°♑27'54	1°06'58
	7487 Oct 17 05:20	0°♊		minimum elong	7492 Sep 25 05:31	8°♑28'18	1°06'59
	7487 Dec 05 03:49	0°♋		max. Earth dist.	7492 Oct 20 11:18	25°♑22'02	2.59441 AU
	7488 Jan 18 17:34	0°♋			7492 Oct 27 12:01	0°♌	
	7488 Feb 29 06:45	0°♐		morning rise	7492 Nov 14 09:54	11°♌40'58	
evening set	7488 Mar 14 21:49	10°♐58'31			7492 Dec 13 00:32	0°♊	
	7488 Apr 08 17:29	0°♏			7493 Jan 30 05:15	0°♊	
max. Earth dist.	7488 Apr 21 20:50	10°♏14'06	2.37248 AU		7493 Mar 21 13:59	0°♋	
	7488 May 16 23:23	0°♐		desc. node	7493 Mar 30 07:22	4°♋59'35	
					7493 May 16 06:05	0°♋	
conjunction	7488 May 17 17:29	0°♐35'47	-0°33'48	retrograde	7493 Jul 28 10:31	22°♋13'14	
minimum elong	7488 May 17 20:29	0°♐41'43	0°33'52	opposition	7493 Sep 01 04:59	15°♋09'49	-5°18'59
	7488 Jun 23 22:02	0°♑		greatest brilliancy	7493 Sep 02 18:41	14°♋36'48	-2.1m
asc. node	7488 Jul 05 23:44	9°♑28'53		min. Earth dist.	7493 Sep 09 17:01	12°♋12'16	0.49874 AU
morning rise	7488 Jul 29 12:15	27°♑44'44		direct	7493 Oct 09 07:35	6°♋30'08	
	7488 Aug 01 10:40	0°♑			7493 Dec 15 12:34	0°♐	
	7488 Sep 10 09:09	0°♐			7494 Jan 30 05:38	0°♏	
	7488 Oct 22 11:07	0°♑		asc. node	7494 Feb 25 22:16	19°♏26'45	
	7488 Dec 06 11:51	0°♌			7494 Mar 12 01:10	0°♐	
	7489 Jan 25 03:18	0°♊			7494 Apr 20 20:09	0°♑	
	7489 Mar 30 08:24	0°♊			7494 May 31 04:53	0°♑	
retrograde	7489 May 04 04:22	6°♊16'40			7494 Jul 12 00:24	0°♐	
	7489 Jun 04 22:46	30°♏♊			7494 Aug 24 15:22	0°♑	
opposition	7489 Jun 13 04:12	26°♊50'37	0°25'29	evening set	7494 Sep 18 16:16	16°♑41'12	
greatest brilliancy	7489 Jun 13 05:09	26°♊49'41	-1.3m		7494 Oct 08 23:56	0°♌	
min. Earth dist.	7489 Jun 15 04:01	26°♊03'26	0.67566 AU				
desc. node	7489 Jun 25 10:43	22°♊11'16		conjunction	7494 Nov 06 00:17	18°♌05'40	0°47'52
direct	7489 Jul 24 15:28	16°♊50'27		minimum elong	7494 Nov 06 01:27	18°♌07'32	0°47'56
	7489 Sep 15 16:05	0°♊		max. Earth dist.	7494 Nov 14 17:36	23°♌40'46	2.66437 AU
	7489 Nov 11 18:28	0°♋			7494 Nov 24 15:16	0°♊	
	7489 Dec 28 06:25	0°♋		morning rise	7494 Dec 21 02:33	16°♊48'22	
	7490 Feb 08 07:08	0°♐			7495 Jan 10 23:37	0°♊	
	7490 Mar 19 18:20	0°♏		desc. node	7495 Feb 15 04:46	22°♊11'21	
	7490 Apr 26 22:30	0°♐			7495 Feb 27 14:58	0°♋	
asc. node	7490 May 23 22:18	21°♐21'59			7495 Apr 16 13:28	0°♋	
evening set	7490 May 24 01:09	21°♐27'35			7495 Jun 04 11:39	0°♐	
	7490 Jun 03 21:15	0°♑			7495 Jul 27 02:53	0°♏	
	7490 Jul 12 13:03	0°♑		retrograde	7495 Oct 08 06:02	24°♏08'47	

opposition	7495 Nov 07 08:20	19° ♄ 08'57 -4°39'10		7500 Nov 16 00:09	0° ♄
greatest brilliancy	7495 Nov 08 04:23	18° ♄ 55'15 -2.9m		7501 Jan 01 15:39	0° ♄
min. Earth dist.	7495 Nov 11 03:56	18° ♄ 06'37 0.37687 AU	evening set	7501 Jan 08 22:45	4° ♄ 50'43
direct	7495 Dec 08 05:56	13° ♄ 45'18	max. Earth dist.	7501 Jan 26 00:59	16° ♄ 21'59 2.54785 AU
asc. node	7496 Jan 13 21:34	22° ♄ 03'55		7501 Feb 14 19:32	0° ♄
	7496 Jan 30 20:07	0° ♄			
	7496 Mar 20 19:57	0° ♄	conjunction	7501 Feb 26 05:44	8° ♄ 01'37 -1°01'37
	7496 May 04 21:22	0° ♄	minimum elong	7501 Feb 26 04:40	7° ♄ 59'45 1°01'34
	7496 Jun 18 16:47	0° ♄		7501 Mar 28 17:45	0° ♄
	7496 Aug 03 09:41	0° ♄	morning rise	7501 Apr 20 03:49	16° ♄ 37'44
	7496 Sep 19 03:11	0° ♄		7501 May 07 20:17	0° ♄
evening set	7496 Oct 27 03:37	24° ♄ 06'27		7501 Jun 15 17:42	0° ♄
	7496 Nov 05 11:09	0° ♄		7501 Jul 24 04:10	0° ♄
max. Earth dist.	7496 Dec 06 06:23	19° ♄ 30'55 2.67942 AU		7501 Sep 01 01:12	0° ♄
			asc. node	7501 Sep 05 18:05	3° ♄ 34'12
conjunction	7496 Dec 11 06:00	22° ♄ 40'54 0°11'27		7501 Oct 11 10:57	0° ♄
minimum elong	7496 Dec 11 06:20	22° ♄ 41'27 0°11'33		7501 Nov 23 23:05	0° ♄
behind sun begin	7496 Dec 10 17:23	22° ♄ 20'51		7502 Jan 13 15:01	0° ♄
behind sun end	7496 Dec 11 19:18	23° ♄ 02'02	retrograde	7502 Mar 19 12:29	20° ♄ 05'10
	7496 Dec 22 17:46	0° ♄	min. Earth dist.	7502 Apr 25 12:09	11° ♄ 25'35 0.64865 AU
desc. node	7497 Jan 02 02:44	6° ♄ 37'46	opposition	7502 Apr 28 19:34	10° ♄ 06'16 3°41'01
morning rise	7497 Jan 23 22:23	20° ♄ 39'27	greatest brilliancy	7502 Apr 28 09:37	10° ♄ 16'12 -1.4m
	7497 Feb 07 08:24	0° ♄	direct	7502 Jun 07 01:38	0° ♄ 51'45
	7497 Mar 24 22:20	0° ♄	desc. node	7502 Aug 26 00:35	25° ♄ 55'27
	7497 May 08 09:16	0° ♄		7502 Sep 03 02:33	0° ♄
	7497 Jun 20 19:24	0° ♄		7502 Oct 26 17:26	0° ♄
	7497 Aug 02 15:17	0° ♄		7502 Dec 13 15:46	0° ♄
	7497 Sep 15 05:06	0° ♄		7503 Jan 26 23:41	0° ♄
	7497 Nov 04 01:40	0° ♄	evening set	7503 Feb 23 04:12	19° ♄ 25'12
asc. node	7497 Nov 30 22:16	10° ♄ 45'40		7503 Mar 09 13:47	0° ♄
retrograde	7497 Dec 21 21:12	13° ♄ 48'35	max. Earth dist.	7503 Mar 11 17:13	1° ♄ 35'28 2.41800 AU
min. Earth dist.	7498 Jan 17 03:52	9° ♄ 09'35 0.41743 AU		7503 Apr 18 03:35	0° ♄
greatest brilliancy	7498 Jan 24 00:27	6° ♄ 57'37 -2.7m			
opposition	7498 Jan 25 02:57	6° ♄ 36'15 3°30'28	conjunction	7503 Apr 22 02:24	3° ♄ 03'27 -0°56'08
direct	7498 Feb 25 05:20	0° ♄ 40'01	minimum elong	7503 Apr 22 04:52	3° ♄ 08'13 0°56'10
	7498 May 19 11:09	0° ♄		7503 May 26 12:20	0° ♄
	7498 Jul 11 00:30	0° ♄	morning rise	7503 Jun 30 05:29	27° ♄ 24'13
	7498 Aug 29 22:23	0° ♄		7503 Jul 03 12:39	0° ♄
	7498 Oct 17 19:55	0° ♄	asc. node	7503 Jul 24 16:44	16° ♄ 34'33
desc. node	7498 Nov 20 01:27	20° ♄ 45'41		7503 Aug 11 01:30	0° ♄
evening set	7498 Dec 02 06:35	28° ♄ 29'33		7503 Sep 19 23:46	0° ♄
	7498 Dec 04 15:27	0° ♄		7503 Nov 01 04:18	0° ♄
max. Earth dist.	7498 Dec 29 13:38	16° ♄ 00'22 2.63963 AU		7503 Dec 16 18:25	0° ♄
				7504 Feb 06 20:20	0° ♄
conjunction	7499 Jan 16 05:26	27° ♄ 32'08 -0°29'32	retrograde	7504 Apr 21 17:59	23° ♄ 46'58
minimum elong	7499 Jan 16 04:34	27° ♄ 30'42 0°29'26	opposition	7504 Jun 01 01:31	14° ♄ 07'03 1°25'10
	7499 Jan 19 23:14	0° ♄	greatest brilliancy	7504 Jun 01 02:28	14° ♄ 06'06 -1.3m
morning rise	7499 Mar 02 18:47	28° ♄ 07'14	min. Earth dist.	7504 Jun 01 13:38	13° ♄ 55'00 0.68096 AU
	7499 Mar 05 12:29	0° ♄	direct	7504 Jul 12 04:28	4° ♄ 14'41
	7499 Apr 17 06:39	0° ♄	desc. node	7504 Jul 13 00:53	4° ♄ 14'57
	7499 May 28 10:18	0° ♄		7504 Sep 30 11:50	0° ♄
	7499 Jul 07 09:34	0° ♄		7504 Nov 21 17:50	0° ♄
	7499 Aug 15 21:14	0° ♄		7505 Jan 06 05:16	0° ♄
	7499 Sep 25 00:28	0° ♄		7505 Feb 16 23:31	0° ♄
asc. node	7499 Oct 18 20:55	17° ♄ 04'21		7505 Mar 28 09:35	0° ♄
	7499 Nov 06 22:01	0° ♄	evening set	7505 Apr 25 14:29	22° ♄ 07'03
	7499 Dec 29 22:30	0° ♄		7505 May 05 13:38	0° ♄
retrograde	7500 Feb 09 16:51	10° ♄ 17'23	asc. node	7505 Jun 10 15:18	28° ♄ 32'53
min. Earth dist.	7500 Mar 13 11:24	3° ♄ 24'26 0.55271 AU		7505 Jun 12 11:32	0° ♄
greatest brilliancy	7500 Mar 19 04:56	1° ♄ 11'49 -1.9m			
opposition	7500 Mar 20 10:57	0° ♄ 42'45 5°07'33	conjunction	7505 Jul 04 23:57	17° ♄ 37'15 0°17'11
	7500 Mar 22 07:30	30° ♄ 07'33	minimum elong	7505 Jul 04 22:11	17° ♄ 33'50 0°17'02
direct	7500 Apr 25 08:59	22° ♄ 39'31		7505 Jul 21 01:04	0° ♄
	7500 Jun 02 01:00	0° ♄	max. Earth dist.	7505 Aug 26 15:10	27° ♄ 29'33 2.41836 AU
	7500 Aug 05 18:22	0° ♄		7505 Aug 30 01:08	0° ♄
	7500 Sep 27 16:36	0° ♄	morning rise	7505 Sep 10 17:28	8° ♄ 29'44
desc. node	7500 Oct 08 00:46	6° ♄ 08'40		7505 Oct 11 02:24	0° ♄

	7505 Nov 24 15:54	0°♌			7511 Apr 05 03:35	0°♏	
	7506 Jan 11 09:19	0°♊			7511 May 17 09:18	0°♏	
	7506 Mar 05 15:25	0°♊			7511 Jun 29 13:29	0°♎	
retrograde	7506 May 27 11:37	26°♊54'48			7511 Aug 13 05:01	0°♌	
desc. node	7506 May 30 23:51	26°♊50'16			7511 Sep 28 06:18	0°♌	
opposition	7506 Jul 05 13:54	17°♊57'03 -1°16'05	evening set		7511 Oct 14 12:12	10°♌25'12	
greatest brilliancy	7506 Jul 05 18:05	17°♊53'00 -1.4m			7511 Nov 14 05:49	0°♊	
min. Earth dist.	7506 Jul 09 20:22	16°♊17'28 0.64747 AU					
direct	7506 Aug 16 01:55	7°♊54'20	conjunction		7511 Nov 29 11:11	9°♊39'56 0°26'39	
	7506 Oct 25 10:37	0°♏	minimum elong		7511 Nov 29 11:57	9°♊41'09 0°26'44	
	7506 Dec 14 19:40	0°♏	max. Earth dist.		7511 Nov 29 18:19	9°♊51'14 2.68008 AU	
	7507 Jan 26 21:59	0°♏			7511 Dec 31 11:27	0°♊	
	7507 Mar 07 18:10	0°♏	morning rise		7512 Jan 12 08:05	7°♊33'22	
	7507 Apr 15 02:44	0°♏	desc. node		7512 Jan 20 16:46	12°♊53'34	
asc. node	7507 Apr 28 14:12	10°♏37'40			7512 Feb 16 09:06	0°♏	
	7507 May 23 05:42	0°♏			7512 Apr 02 15:37	0°♏	
	7507 Jul 01 02:53	0°♏			7512 May 18 06:39	0°♏	
evening set	7507 Jul 08 12:14	5°♏35'12			7512 Jul 02 12:55	0°♏	
	7507 Aug 10 12:35	0°♏			7512 Aug 17 11:18	0°♏	
					7512 Oct 08 00:21	0°♏	
conjunction	7507 Sep 07 17:43	20°♏07'53 1°05'07	retrograde		7512 Nov 26 19:48	14°♏17'48	
minimum elong	7507 Sep 07 16:44	20°♏06'10 1°05'05	asc. node		7512 Dec 18 14:26	11°♏14'10	
	7507 Sep 21 22:06	0°♏	min. Earth dist.		7512 Dec 23 11:47	9°♏55'20 0.37802 AU	
max. Earth dist.	7507 Oct 11 00:25	13°♏02'25 2.55273 AU	opposition		7512 Dec 28 08:18	8°♏32'42 0°43'35	
morning rise	7507 Oct 31 10:13	26°♏40'55	greatest brilliancy		7512 Dec 28 04:20	8°♏35'32 -3.0m	
	7507 Nov 05 10:58	0°♌	direct		7513 Jan 26 22:27	3°♏27'11	
	7507 Dec 22 02:06	0°♊			7513 Apr 12 18:33	0°♏	
	7508 Feb 08 23:13	0°♊			7513 Jun 02 21:47	0°♏	
	7508 Apr 01 13:44	0°♏			7513 Jul 21 11:43	0°♏	
desc. node	7508 Apr 16 21:29	7°♏59'39			7513 Sep 07 18:12	0°♌	
	7508 Jun 08 17:09	0°♏			7513 Oct 25 21:17	0°♊	
retrograde	7508 Jul 08 13:23	4°♏39'52	evening set		7513 Nov 19 07:06	15°♊20'09	
	7508 Aug 05 00:49	30°♏	desc. node		7513 Dec 07 15:15	26°♊57'17	
opposition	7508 Aug 13 22:04	26°♏54'24 -4°14'40			7513 Dec 12 09:59	0°♊	
greatest brilliancy	7508 Aug 15 00:48	26°♏29'50 -1.8m	max. Earth dist.		7513 Dec 21 05:16	5°♊37'49 2.66163 AU	
min. Earth dist.	7508 Aug 21 13:55	24°♏05'48 0.55089 AU					
direct	7508 Sep 22 16:15	17°♏30'48	conjunction		7514 Jan 02 23:06	13°♊49'41 -0°13'52	
	7508 Nov 09 07:12	0°♏	minimum elong		7514 Jan 02 22:41	13°♊49'01 0°13'46	
	7508 Dec 31 00:52	0°♏	behind sun begin		7514 Jan 02 13:01	13°♊33'25	
	7509 Feb 11 06:52	0°♏	behind sun end		7514 Jan 03 08:21	14°♊04'36	
asc. node	7509 Mar 15 15:07	24°♏29'24			7514 Jan 27 19:02	0°♏	
	7509 Mar 22 19:10	0°♏	morning rise		7514 Feb 16 07:55	12°♏55'46	
	7509 Apr 30 18:44	0°♏			7514 Mar 13 16:08	0°♏	
	7509 Jun 09 11:46	0°♏			7514 Apr 25 23:03	0°♏	
	7509 Jul 20 17:28	0°♏			7514 Jun 06 18:44	0°♏	
	7509 Sep 01 21:01	0°♏			7514 Jul 17 11:43	0°♏	
evening set	7509 Sep 02 02:11	0°♏08'47			7514 Aug 26 19:56	0°♏	
	7509 Oct 16 21:28	0°♌			7514 Oct 07 07:04	0°♏	
			asc. node		7514 Nov 05 13:31	19°♏34'51	
conjunction	7509 Oct 22 19:53	3°♌52'26 0°58'15			7514 Nov 22 21:09	0°♏	
minimum elong	7509 Oct 22 21:00	3°♌54'16 0°58'18	retrograde		7515 Jan 24 10:53	21°♏20'26	
max. Earth dist.	7509 Nov 06 09:29	13°♌19'18 2.64355 AU	min. Earth dist.		7515 Feb 22 20:04	15°♏20'36 0.50115 AU	
	7509 Dec 02 09:54	0°♊	greatest brilliancy		7515 Mar 01 10:39	12°♏54'24 -2.1m	
morning rise	7509 Dec 08 09:00	3°♊47'34	opposition		7515 Mar 02 22:13	12°♏21'21 5°07'54	
	7510 Jan 18 23:10	0°♊	direct		7515 Apr 06 03:34	5°♏00'08	
desc. node	7510 Mar 04 19:03	27°♊49'03			7515 Jun 22 13:19	0°♏	
	7510 Mar 08 08:20	0°♏			7515 Aug 16 16:15	0°♌	
	7510 Apr 27 01:44	0°♏			7515 Oct 06 12:07	0°♊	
	7510 Jun 19 15:26	0°♏	desc. node		7515 Oct 25 15:01	11°♊39'18	
retrograde	7510 Sep 07 19:49	26°♏33'25			7515 Nov 24 01:56	0°♊	
opposition	7510 Oct 09 11:32	20°♏50'56 -5°59'36	evening set		7515 Dec 25 18:34	20°♊18'52	
greatest brilliancy	7510 Oct 11 04:38	20°♏19'44 -2.6m			7516 Jan 09 12:50	0°♏	
min. Earth dist.	7510 Oct 17 02:04	18°♏33'06 0.41601 AU	max. Earth dist.		7516 Jan 15 13:38	4°♏00'07 2.58960 AU	
direct	7510 Nov 12 13:45	14°♏05'27					
	7511 Jan 03 20:08	0°♏	conjunction		7516 Feb 10 05:46	21°♏19'54 -0°51'30	
asc. node	7511 Jan 31 15:23	16°♏19'38	minimum elong		7516 Feb 10 04:30	21°♏17'45 0°51'25	
	7511 Feb 21 08:19	0°♏			7516 Feb 22 19:27	0°♏	

morning rise	7516 Mar 30 07:58	25° H 52'53		retrograde	7521 May 13 02:28	14° Z 00'25	
	7516 Apr 05 00:20	0° Y		desc. node	7521 Jun 16 13:59	6° Z 45'19	
	7516 May 15 11:19	0° B		opposition	7521 Jun 21 19:54	4° Z 43'24	-0°11'02
	7516 Jun 23 16:55	0° II		greatest brilliancy	7521 Jun 21 20:20	4° Z 42'59	-1.4m
	7516 Aug 01 10:32	0° D		min. Earth dist.	7521 Jun 24 14:57	3° Z 37'32	0.66850 AU
	7516 Sep 09 14:41	0° Q			7521 Jul 04 07:40	30° R 27	
asc. node	7516 Sep 22 12:16	9° Q 39'29		direct	7521 Aug 02 09:07	24° X 41'01	
	7516 Oct 20 12:14	0° M			7521 Sep 03 00:42	0° Z	
	7516 Dec 04 10:43	0° L			7521 Nov 06 05:57	0° \approx	
	7517 Feb 01 20:38	0° M			7521 Dec 23 19:27	0° H	
retrograde	7517 Mar 05 13:32	5° M 55'23			7522 Feb 04 04:19	0° Y	
	7517 Apr 04 03:28	30° R 25			7522 Mar 15 18:40	0° B	
min. Earth dist.	7517 Apr 09 16:20	27° L 52'46	0.61831 AU	greatest brilliancy	7522 Apr 08 07:32	18° B 24'06	1.2m
opposition	7517 Apr 14 11:47	25° L 58'05	4°23'34		7522 Apr 23 00:08	0° II	
greatest brilliancy	7517 Apr 13 18:21	26° L 15'25	-1.5m	asc. node	7522 May 15 08:15	17° II 40'08	
direct	7517 May 22 14:54	17° L 06'26			7522 May 30 23:49	0° D	
	7517 Jul 14 15:32	0° M		evening set	7522 Jun 10 15:01	8° D 19'35	
desc. node	7517 Sep 11 14:50	29° M 04'32			7522 Jul 08 16:39	0° Q	
	7517 Sep 13 06:59	0° X					
	7517 Nov 03 15:14	0° Z		conjunction	7522 Aug 16 06:52	28° Q 50'26	0°54'47
	7517 Dec 20 21:56	0° \approx		minimum elong	7522 Aug 16 04:26	28° Q 46'00	0°54'43
	7518 Feb 03 02:56	0° H			7522 Aug 17 20:58	0° M	
evening set	7518 Feb 04 02:54	0° H 42'00		max. Earth dist.	7522 Sep 27 11:27	28° M 54'04	2.50349 AU
max. Earth dist.	7518 Feb 18 01:00	10° H 33'03	2.47088 AU		7522 Sep 29 01:29	0° L	
	7518 Mar 16 19:15	0° Y		morning rise	7522 Oct 13 17:34	10° L 04'41	
					7522 Nov 12 12:10	0° M	
conjunction	7518 Mar 29 06:24	9° Y 16'32	-1°05'45		7522 Dec 29 08:56	0° X	
minimum elong	7518 Mar 29 07:02	9° Y 17'42	1°05'46		7523 Feb 17 07:09	0° Z	
	7518 Apr 25 13:13	0° B			7523 Apr 14 23:14	0° \approx	
morning rise	7518 May 30 12:11	27° B 11'31		desc. node	7523 May 04 11:49	8° \approx 24'05	
	7518 Jun 03 02:00	0° II		retrograde	7523 Jun 21 10:15	19° \approx 12'40	
greatest brilliancy	7518 Jun 07 03:02	3° II 10'37	1.2m	opposition	7523 Jul 29 01:39	10° \approx 54'03	-3°04'52
	7518 Jul 11 05:16	0° D		greatest brilliancy	7523 Jul 29 17:39	10° \approx 38'55	-1.6m
asc. node	7518 Aug 10 09:06	23° D 30'04		min. Earth dist.	7523 Aug 04 11:57	8° \approx 28'05	0.59565 AU
	7518 Aug 18 19:55	0° Q		direct	7523 Sep 07 20:08	1° \approx 06'06	
	7518 Sep 27 20:02	0° M			7523 Nov 26 21:25	0° H	
	7518 Nov 09 06:51	0° L			7524 Jan 11 22:30	0° Y	
	7518 Dec 25 21:04	0° M			7524 Feb 21 18:55	0° B	
	7519 Feb 21 07:15	0° X			7524 Mar 31 15:45	0° II	
retrograde	7519 Apr 09 12:39	11° X 11'36		asc. node	7524 Apr 01 07:44	0° II 31'09	
opposition	7519 May 19 23:31	1° X 21'07	2°21'12		7524 May 09 04:15	0° D	
min. Earth dist.	7519 May 18 23:29	1° X 45'05	0.67621 AU		7524 Jun 17 11:07	0° Q	
greatest brilliancy	7519 May 19 21:51	1° X 22'46	-1.3m		7524 Jul 28 06:46	0° M	
	7519 May 23 09:16	30° R 25		evening set	7524 Aug 13 06:39	11° M 23'10	
direct	7519 Jun 29 13:00	21° M 40'33			7524 Sep 09 01:17	0° L	
desc. node	7519 Jul 30 14:38	26° M 39'26					
	7519 Aug 09 21:34	0° X		conjunction	7524 Oct 06 07:46	18° L 25'50	1°05'08
	7519 Oct 12 01:45	0° Z		minimum elong	7524 Oct 06 08:27	18° L 26'59	1°05'10
	7519 Nov 30 23:24	0° \approx			7524 Oct 23 19:14	0° M	
	7520 Jan 14 20:33	0° H		max. Earth dist.	7524 Oct 27 13:47	2° M 28'28	2.61401 AU
	7520 Feb 25 11:45	0° Y		morning rise	7524 Nov 24 00:09	20° M 15'15	
evening set	7520 Mar 29 13:29	25° Y 04'16			7524 Dec 09 06:27	0° X	
	7520 Apr 04 22:22	0° B			7525 Jan 26 03:43	0° Z	
	7520 May 13 03:17	0° II			7525 Mar 16 14:57	0° \approx	
				desc. node	7525 Mar 21 09:03	2° \approx 48'42	
conjunction	7520 Jun 04 14:35	17° II 48'03	-0°16'13		7525 May 08 08:07	0° H	
minimum elong	7520 Jun 04 16:19	17° II 51'30	0°16'18		7525 Jul 16 04:45	0° Y	
	7520 Jun 20 01:04	0° D		retrograde	7525 Aug 11 16:17	3° Y 50'41	
asc. node	7520 Jun 27 07:58	5° D 44'02			7525 Sep 05 18:32	30° R 27	
max. Earth dist.	7520 Jul 07 02:53	13° D 24'08	2.37010 AU	opposition	7525 Sep 14 11:18	27° H 14'22	-5°46'47
	7520 Jul 28 13:10	0° Q		greatest brilliancy	7525 Sep 16 05:35	26° H 38'50	-2.3m
morning rise	7520 Aug 15 22:58	14° Q 00'13		min. Earth dist.	7525 Sep 23 03:39	24° H 20'44	0.46857 AU
	7520 Sep 06 10:59	0° M		direct	7525 Oct 21 08:59	19° H 09'03	
	7520 Oct 18 11:13	0° L			7525 Dec 02 21:25	0° Y	
	7520 Dec 02 05:25	0° M			7526 Jan 23 02:35	0° B	
	7521 Jan 19 22:06	0° X		asc. node	7526 Feb 17 07:00	17° B 37'05	
	7521 Mar 18 20:01	0° Z			7526 Mar 06 07:34	0° II	

	7526 Apr 15 19:08	0°☾		morning rise	7531 Mar 13 04:15	7°☿51'58	
	7526 May 26 15:22	0°♈			7531 Apr 13 09:33	0°♈	
	7526 Jul 07 19:34	0°♊			7531 May 24 06:54	0°♊	
	7526 Aug 20 17:25	0°♈			7531 Jul 02 22:55	0°♈	
evening set	7526 Sep 29 00:20	25°♈55'51			7531 Aug 11 02:29	0°☾	
	7526 Oct 05 06:34	0°♈			7531 Sep 19 18:27	0°♈	
				asc. node	7531 Oct 10 04:23	14°♈56'22	
conjunction	7526 Nov 15 08:10	26°♈23'36	0°40'36		7531 Oct 31 14:44	0°♊	
minimum elong	7526 Nov 15 09:14	26°♈25'19	0°40'41		7531 Dec 18 19:30	0°♈	
	7526 Nov 20 23:58	0°♊		retrograde	7532 Feb 19 17:44	20°♈26'43	
max. Earth dist.	7526 Nov 20 22:51	29°♈58'14	2.67227 AU	min. Earth dist.	7532 Mar 23 18:49	13°♈06'58	0.57866 AU
morning rise	7526 Dec 29 20:47	24°♊40'40		greatest brilliancy	7532 Mar 28 23:08	11°♈05'16	-1.7m
	7527 Jan 07 06:26	0°♊		opposition	7532 Mar 30 00:50	10°♈40'04	4°56'07
desc. node	7527 Feb 06 07:20	19°♊02'01		direct	7532 May 05 19:24	2°♈17'25	
	7527 Feb 23 14:12	0°♈			7532 Jul 29 07:16	0°♈	
	7527 Apr 11 19:42	0°♊			7532 Sep 22 03:51	0°♊	
	7527 May 29 05:47	0°♈		desc. node	7532 Sep 28 04:03	3°♊29'51	
	7527 Jul 16 23:24	0°♊			7532 Nov 11 02:31	0°♊	
	7527 Sep 10 16:47	0°♈			7532 Dec 27 23:18	0°♈	
retrograde	7527 Oct 27 20:49	12°♈02'57		evening set	7533 Jan 18 00:26	14°♈04'18	
opposition	7527 Nov 26 16:24	7°♈06'52	-2°58'21	max. Earth dist.	7533 Feb 02 14:05	24°♈43'46	2.52216 AU
greatest brilliancy	7527 Nov 26 22:08	7°♈03'05	-3.0m		7533 Feb 10 04:08	0°♊	
min. Earth dist.	7527 Nov 27 09:56	6°♈55'18	0.36757 AU				
direct	7527 Dec 26 07:29	2°♈09'19		conjunction	7533 Mar 08 16:45	18°♈50'02	-1°05'14
asc. node	7528 Jan 05 07:31	2°♈49'05		minimum elong	7533 Mar 08 16:05	18°♈48'50	1°05'12
	7528 Mar 11 00:43	0°☾			7533 Mar 24 00:41	0°♈	
	7528 Apr 28 08:53	0°♈		morning rise	7533 May 03 10:43	0°♊19'25	
	7528 Jun 13 13:57	0°♊			7533 May 03 00:33	0°♊	
	7528 Jul 30 01:11	0°♈			7533 Jun 10 18:52	0°♈	
	7528 Sep 15 05:15	0°♈			7533 Jul 19 02:14	0°☾	
	7528 Nov 01 19:03	0°♊			7533 Aug 26 19:56	0°♈	
evening set	7528 Nov 05 06:38	2°♊11'50		asc. node	7533 Aug 27 03:26	0°♈14'20	
max. Earth dist.	7528 Dec 12 07:29	25°♊38'53	2.67534 AU		7533 Oct 06 00:07	0°♊	
	7528 Dec 19 03:24	0°♊			7533 Nov 17 22:39	0°♈	
					7534 Jan 05 10:10	0°♈	
conjunction	7528 Dec 20 02:37	0°♊37'00	0°02'13	retrograde	7534 Mar 27 06:25	28°♈16'36	
minimum elong	7528 Dec 20 02:39	0°♊37'03	0°02'19	min. Earth dist.	7534 May 04 04:27	19°♈19'10	0.66126 AU
behind sun begin	7528 Dec 19 08:20	0°♊07'52		opposition	7534 May 06 16:28	18°♈19'12	3°13'05
behind sun end	7528 Dec 20 20:57	1°♊06'15		greatest brilliancy	7534 May 06 10:01	18°♈25'39	-1.4m
desc. node	7528 Dec 24 05:36	3°♊15'05		direct	7534 Jun 15 11:22	8°♈54'14	
morning rise	7529 Feb 01 21:30	28°♊51'07		desc. node	7534 Aug 16 03:48	25°♈22'26	
	7529 Feb 03 15:43	0°♈			7534 Aug 26 05:50	0°♊	
	7529 Mar 20 23:07	0°♊			7534 Oct 21 03:08	0°♊	
	7529 May 03 22:36	0°♈			7534 Dec 08 16:14	0°♈	
	7529 Jun 15 16:31	0°♊			7535 Jan 22 04:58	0°♊	
	7529 Jul 27 13:07	0°♈			7535 Mar 04 19:44	0°♈	
	7529 Sep 07 11:35	0°☾		evening set	7535 Mar 07 01:53	1°♈40'33	
	7529 Oct 22 04:49	0°♈		max. Earth dist.	7535 Mar 29 17:13	18°♈44'36	2.39051 AU
asc. node	7529 Nov 22 06:13	17°♈15'22			7535 Apr 13 08:46	0°♊	
retrograde	7530 Jan 04 15:39	28°♈52'36					
min. Earth dist.	7530 Jan 31 18:04	23°♈47'46	0.44643 AU	conjunction	7535 May 07 04:44	18°♊35'28	-0°45'01
greatest brilliancy	7530 Feb 07 19:28	21°♈23'35	-2.5m	minimum elong	7535 May 07 07:51	18°♊41'36	0°45'04
opposition	7530 Feb 09 05:00	20°♈54'45	4°25'30		7535 May 21 16:17	0°♈	
direct	7530 Mar 13 12:12	14°♈25'59			7535 Jun 28 15:30	0°☾	
	7530 May 09 00:33	0°♊		asc. node	7535 Jul 15 01:24	12°☾52'38	
	7530 Jul 05 04:47	0°♈		morning rise	7535 Jul 18 00:35	15°☾11'34	
	7530 Aug 25 11:04	0°♈			7535 Aug 06 03:36	0°♈	
	7530 Oct 13 22:33	0°♊			7535 Sep 15 00:38	0°♊	
desc. node	7530 Nov 11 04:25	17°♊30'50			7535 Oct 27 01:44	0°♈	
	7530 Dec 01 00:02	0°♊			7535 Dec 11 05:05	0°♈	
evening set	7530 Dec 11 07:25	6°♊34'07			7536 Jan 30 13:26	0°♊	
max. Earth dist.	7531 Jan 05 03:54	22°♊38'05	2.62411 AU		7536 Apr 13 14:02	0°♊	
	7531 Jan 16 09:00	0°♈		retrograde	7536 Apr 29 10:07	1°♊26'28	
					7536 May 14 08:16	30°♊♊	
conjunction	7531 Jan 25 15:14	6°♈08'21	-0°38'10	opposition	7536 Jun 08 13:40	21°♊53'41	0°50'34
minimum elong	7531 Jan 25 14:09	6°♈06'33	0°38'04	greatest brilliancy	7536 Jun 08 14:54	21°♊52'28	-1.3m
	7531 Mar 01 20:11	0°♊		min. Earth dist.	7536 Jun 09 21:01	21°♊22'38	0.67931 AU

desc. node	7536 Jul 03 03:19	13° ♊ 44'28	evening set	7541 Sep 12 07:22	10° ♏ 15'32	
direct	7536 Jul 19 21:50	11° ♊ 56'36		7541 Oct 12 04:58	0° ♏	
	7536 Sep 22 04:00	0° ♊				
	7536 Nov 15 22:57	0° ♋	conjunction	7541 Oct 31 14:49	12° ♏ 35'54	0°52'32
	7537 Jan 01 01:38	0° ♋	minimum elong	7541 Oct 31 16:00	12° ♏ 37'48	0°52'37
	7537 Feb 12 00:40	0° ♌	max. Earth dist.	7541 Nov 11 19:59	19° ♏ 49'02	2.65610 AU
	7537 Mar 23 12:13	0° ♌		7541 Nov 27 18:10	0° ♌	
	7537 Apr 30 16:29	0° ♍	morning rise	7541 Dec 16 06:51	11° ♊ 46'24	
evening set	7537 May 12 00:07	8° ♍ 58'07		7542 Jan 14 03:58	0° ♊	
asc. node	7537 May 31 23:38	24° ♍ 46'53	desc. node	7542 Feb 22 21:39	24° ♊ 53'34	
	7537 Jun 07 14:28	0° ♋		7542 Mar 03 02:17	0° ♋	
	7537 Jul 16 04:30	0° ♌		7542 Apr 20 17:06	0° ♋	
				7542 Jun 10 04:42	0° ♌	
conjunction	7537 Jul 21 05:54	3° ♌ 51'44 0°33'50		7542 Aug 07 11:37	0° ♌	
minimum elong	7537 Jul 21 03:04	3° ♌ 46'21 0°33'42	retrograde	7542 Sep 25 01:39	11° ♊ 57'10	
	7537 Aug 25 05:10	0° ♍	opposition	7542 Oct 25 17:05	6° ♊ 41'57	-5°28'48
max. Earth dist.	7537 Sep 09 16:02	11° ♍ 12'35 2.44933 AU	greatest brilliancy	7542 Oct 27 00:38	6° ♊ 19'23	-2.8m
morning rise	7537 Sep 23 13:23	21° ♍ 06'07	min. Earth dist.	7542 Oct 31 13:23	5° ♊ 02'09	0.39142 AU
	7537 Oct 06 06:23	0° ♏	direct	7542 Nov 26 23:48	0° ♊ 44'39	
	7537 Nov 19 17:15	0° ♏	asc. node	7543 Jan 21 22:38	18° ♊ 30'26	
	7538 Jan 06 00:07	0° ♊		7543 Feb 10 18:23	0° ♍	
	7538 Feb 26 14:51	0° ♊		7543 Mar 28 10:09	0° ♋	
	7538 May 04 19:17	0° ♋		7543 May 10 22:49	0° ♌	
desc. node	7538 May 21 01:59	3° ♋ 48'34		7543 Jun 23 21:47	0° ♍	
retrograde	7538 Jun 05 04:14	5° ♋ 05'30		7543 Aug 08 01:30	0° ♏	
	7538 Jul 03 19:42	30° ♋ 30		7543 Sep 23 10:36	0° ♏	
opposition	7538 Jul 13 19:36	26° ♊ 20'12 -1°55'30	evening set	7543 Oct 22 22:54	18° ♏ 48'28	
greatest brilliancy	7538 Jul 14 03:13	26° ♊ 12'51 -1.5m		7543 Nov 09 14:19	0° ♊	
min. Earth dist.	7538 Jul 18 20:32	24° ♊ 23'32 0.63169 AU	max. Earth dist.	7543 Dec 04 18:58	15° ♊ 58'32	2.68082 AU
direct	7538 Aug 24 03:39	16° ♊ 20'23				
	7538 Oct 15 13:54	0° ♋	conjunction	7543 Dec 07 08:50	17° ♊ 36'41	0°17'52
	7538 Dec 08 11:01	0° ♋	minimum elong	7543 Dec 07 09:22	17° ♊ 37'32	0°17'58
	7539 Jan 21 08:21	0° ♌		7543 Dec 26 20:22	0° ♊	
	7539 Mar 02 11:48	0° ♌	desc. node	7544 Jan 10 19:47	9° ♊ 33'34	
	7539 Apr 09 23:54	0° ♍	morning rise	7544 Jan 20 01:39	15° ♊ 29'01	
asc. node	7539 Apr 19 00:10	7° ♍ 05'14		7544 Feb 11 14:21	0° ♋	
	7539 May 18 05:13	0° ♋		7544 Mar 28 11:48	0° ♋	
	7539 Jun 26 04:40	0° ♌		7544 May 12 10:35	0° ♌	
evening set	7539 Jul 22 17:07	19° ♌ 47'53		7544 Jun 25 14:15	0° ♌	
	7539 Aug 05 16:35	0° ♍		7544 Aug 08 11:51	0° ♍	
	7539 Sep 17 03:57	0° ♏		7544 Sep 23 04:10	0° ♋	
				7544 Nov 25 14:31	0° ♌	
conjunction	7539 Sep 19 02:24	1° ♏ 19'57 1°07'02	asc. node	7544 Dec 08 23:39	1° ♌ 50'24	
minimum elong	7539 Sep 19 02:12	1° ♏ 19'35 1°07'02	retrograde	7544 Dec 12 03:28	1° ♌ 54'42	
max. Earth dist.	7539 Oct 17 21:57	20° ♏ 50'50 2.57671 AU		7544 Dec 28 16:57	30° ♋ 30	
	7539 Oct 31 17:23	0° ♏	min. Earth dist.	7545 Jan 07 04:00	27° ♋ 29'46	0.39702 AU
morning rise	7539 Nov 09 17:13	5° ♏ 53'48	greatest brilliancy	7545 Jan 13 10:10	25° ♋ 35'57	-2.8m
	7539 Dec 17 05:41	0° ♊	opposition	7545 Jan 14 03:44	25° ♋ 22'35	2°30'06
	7540 Feb 03 15:33	0° ♊	direct	7545 Feb 13 09:49	19° ♋ 51'42	
	7540 Mar 25 18:35	0° ♋		7545 Mar 28 12:55	0° ♌	
desc. node	7540 Apr 07 00:04	6° ♋ 46'50		7545 May 25 22:37	0° ♍	
	7540 May 23 14:34	0° ♋		7545 Jul 15 10:10	0° ♏	
retrograde	7540 Jul 19 23:49	14° ♋ 50'15		7545 Sep 02 12:56	0° ♏	
opposition	7540 Aug 24 12:35	7° ♋ 26'50 -4°52'47		7545 Oct 21 02:04	0° ♊	
greatest brilliancy	7540 Aug 25 21:39	6° ♋ 57'09 -2.0m	evening set	7545 Nov 27 06:49	23° ♊ 20'00	
min. Earth dist.	7540 Sep 01 17:42	4° ♋ 30'52 0.52270 AU	desc. node	7545 Nov 27 18:13	23° ♊ 38'03	
	7540 Sep 17 09:28	30° ♋ 30		7545 Dec 07 18:52	0° ♊	
direct	7540 Oct 02 11:01	28° ♋ 25'02	max. Earth dist.	7545 Dec 26 12:37	12° ♊ 00'15	2.65055 AU
	7540 Oct 18 00:52	0° ♋				
	7540 Dec 22 18:38	0° ♌	conjunction	7546 Jan 11 01:02	22° ♊ 03'40	-0°23'06
	7541 Feb 04 15:52	0° ♌	minimum elong	7546 Jan 11 00:20	22° ♊ 02'32	0°23'00
asc. node	7541 Mar 05 23:46	21° ♌ 47'04		7546 Jan 23 03:55	0° ♋	
	7541 Mar 16 19:58	0° ♍	morning rise	7546 Feb 24 23:18	21° ♋ 53'22	
	7541 Apr 25 04:53	0° ♋		7546 Mar 08 21:30	0° ♋	
	7541 Jun 04 05:14	0° ♌		7546 Apr 20 21:56	0° ♌	
	7541 Jul 15 16:58	0° ♍		7546 Jun 01 09:08	0° ♌	
	7541 Aug 28 01:19	0° ♏		7546 Jul 11 16:07	0° ♍	

	7546 Aug 20 11:36	0°☿			7551 Jul 17 18:44	0°♊	
	7546 Sep 30 01:26	0°♈		desc. node	7551 Jul 20 17:43	0°♊23'21	
asc. node	7546 Oct 26 23:00	18°♈50'37			7551 Oct 05 08:40	0°♊	
	7546 Nov 12 23:33	0°♈			7551 Nov 25 14:14	0°♈	
	7547 Jan 13 14:56	0°♈			7552 Jan 09 21:01	0°♈	
retrograde	7547 Feb 03 12:00	2°♈54'54			7552 Feb 20 15:11	0°♈	
	7547 Feb 23 11:07	30°♈			7552 Mar 31 02:27	0°♈	
min. Earth dist.	7547 Mar 06 05:31	26°♈25'05	0.53025 AU	evening set	7552 Apr 13 08:50	10°♈20'39	
greatest brilliancy	7547 Mar 12 09:05	24°♈05'02	-2.0m		7552 May 08 07:20	0°♈	
opposition	7547 Mar 13 18:12	23°♈33'27	5°11'55		7552 Jun 15 04:57	0°☿	
direct	7547 Apr 17 22:04	15°♈48'01		asc. node	7552 Jun 17 17:17	1°☿58'52	
	7547 Jun 11 21:58	0°♈					
	7547 Aug 10 07:36	0°♈		conjunction	7552 Jun 21 18:40	5°☿10'19	0°02'57
	7547 Oct 01 06:40	0°♈		minimum elong	7552 Jun 21 18:22	5°☿09'45	0°02'50
desc. node	7547 Oct 15 17:26	8°♈41'15		behind sun begin	7552 Jun 20 12:17	4°☿10'39	
	7547 Nov 19 06:59	0°♈		behind sun end	7552 Jun 23 00:28	6°☿08'48	
evening set	7548 Jan 03 07:34	28°♈57'20			7552 Jul 23 17:08	0°♈	
	7548 Jan 04 21:33	0°♈		max. Earth dist.	7552 Aug 11 20:51	14°♈33'49	2.39429 AU
max. Earth dist.	7548 Jan 22 00:16	11°♈24'48	2.56748 AU	morning rise	7552 Aug 30 23:39	28°♈47'39	
	7548 Feb 18 03:54	0°♈			7552 Sep 01 15:00	0°♈	
					7552 Oct 13 14:02	0°♈	
conjunction	7548 Feb 19 16:30	1°♈03'42	-0°57'52		7552 Nov 27 03:30	0°♈	
minimum elong	7548 Feb 19 15:18	1°♈01'36	0°57'49		7553 Jan 14 03:18	0°♈	
	7548 Mar 31 06:01	0°♈			7553 Mar 09 18:09	0°♈	
morning rise	7548 Apr 10 17:00	7°♈40'25		retrograde	7553 May 21 05:24	21°♈48'58	
	7548 May 10 12:59	0°♈		desc. node	7553 Jun 06 16:51	20°♈05'11	
	7548 Jun 18 14:20	0°♈		opposition	7553 Jun 29 14:48	12°♈41'59	-0°48'37
	7548 Jul 27 03:38	0°☿		greatest brilliancy	7553 Jun 29 17:01	12°♈39'49	-1.4m
	7548 Sep 04 02:53	0°♈		min. Earth dist.	7553 Jul 03 05:08	11°♈17'38	0.65810 AU
asc. node	7548 Sep 12 19:57	6°♈34'52		direct	7553 Aug 10 03:59	2°♈38'46	
	7548 Oct 14 15:40	0°♈			7553 Oct 30 00:42	0°♈	
	7548 Nov 27 13:13	0°♈			7553 Dec 18 02:40	0°♈	
	7549 Jan 19 07:33	0°♈			7554 Jan 29 22:07	0°♈	
retrograde	7549 Mar 13 14:50	14°♈37'39			7554 Mar 10 16:23	0°♈	
min. Earth dist.	7549 Apr 18 19:10	6°♈14'11	0.63627 AU		7554 Apr 17 23:48	0°♈	
opposition	7549 Apr 22 19:10	4°♈38'30	3°59'53	asc. node	7554 May 05 15:42	13°♈57'12	
greatest brilliancy	7549 Apr 22 06:04	4°♈51'34	-1.5m		7554 May 26 00:54	0°☿	
	7549 May 05 07:21	30°♈		evening set	7554 Jun 26 17:37	24°☿35'53	
direct	7549 May 31 14:14	25°♈33'40			7554 Jul 03 19:21	0°♈	
	7549 Jun 29 15:12	0°♈			7554 Aug 13 01:34	0°♈	
desc. node	7549 Sep 01 17:27	27°♈20'55					
	7549 Sep 06 18:19	0°♈		conjunction	7554 Aug 29 09:49	11°♈47'18	1°01'53
	7549 Oct 29 09:05	0°♈		minimum elong	7554 Aug 29 08:13	11°♈44'26	1°01'51
	7549 Dec 16 01:52	0°♈			7554 Sep 24 07:23	0°♈	
	7550 Jan 29 10:04	0°♈		max. Earth dist.	7554 Oct 05 14:55	7°♈46'52	2.53163 AU
evening set	7550 Feb 14 15:09	11°♈28'10		morning rise	7554 Oct 24 00:55	20°♈14'13	
max. Earth dist.	7550 Mar 01 04:14	21°♈58'37	2.44170 AU		7554 Nov 07 17:50	0°♈	
	7550 Mar 12 02:19	0°♈			7554 Dec 24 09:36	0°♈	
					7555 Feb 11 14:43	0°♈	
conjunction	7550 Apr 11 05:32	22°♈40'11	-1°01'46		7555 Apr 06 12:20	0°♈	
minimum elong	7550 Apr 11 07:12	22°♈43'22	1°01'48	desc. node	7555 Apr 24 14:27	8°♈52'45	
	7550 Apr 20 18:49	0°♈		retrograde	7555 Jul 01 10:00	28°♈16'43	
	7550 May 29 05:44	0°♈		opposition	7555 Aug 07 09:32	20°♈15'18	-3°45'09
morning rise	7550 Jun 16 09:56	14°♈19'52		greatest brilliancy	7555 Aug 08 07:19	19°♈54'58	-1.7m
	7550 Jul 06 07:02	0°☿		min. Earth dist.	7555 Aug 14 12:54	17°♈35'43	0.57202 AU
asc. node	7550 Jul 31 18:17	19°☿54'38		direct	7555 Sep 16 16:07	10°♈38'56	
	7550 Aug 13 19:55	0°♈			7555 Nov 17 16:50	0°♈	
	7550 Sep 22 17:39	0°♈			7556 Jan 05 08:55	0°♈	
	7550 Nov 03 22:36	0°♈			7556 Feb 15 22:44	0°♈	
	7550 Dec 19 18:59	0°♈		asc. node	7556 Mar 22 16:19	27°♈18'49	
	7551 Feb 11 08:01	0°♈			7556 Mar 26 03:36	0°♈	
retrograde	7551 Apr 17 02:31	18°♈55'33			7556 May 03 21:11	0°☿	
opposition	7551 May 27 12:11	9°♈10'20	1°48'49		7556 Jun 12 08:23	0°♈	
min. Earth dist.	7551 May 27 07:44	9°♈14'45	0.68007 AU		7556 Jul 23 08:11	0°♈	
greatest brilliancy	7551 May 27 12:15	9°♈10'16	-1.3m	evening set	7556 Aug 24 20:14	22°♈50'48	
	7551 Jun 27 11:48	30°♈			7556 Sep 04 06:10	0°♈	
direct	7551 Jul 07 09:58	29°♈22'56					

conjunction	7556 Oct 15 22:09	27° Ω 54'31	1°01'38		7561 Aug 30 23:50	0° Θ
minimum elong	7556 Oct 15 23:08	27° Ω 56'09	1°01'41		7561 Oct 12 10:30	0° Ω
	7556 Oct 19 02:33	0° \mathbb{M}		asc. node	7561 Nov 12 15:06	19° Ω 47'09
max. Earth dist.	7556 Nov 02 08:56	9° \mathbb{M} 18'44	2.63147 AU		7561 Dec 01 16:20	0° \mathbb{M}
morning rise	7556 Dec 02 07:38	28° \mathbb{M} 34'24		retrograde	7562 Jan 16 05:54	12° \mathbb{M} 33'26
	7556 Dec 04 13:23	0° \mathcal{A}		min. Earth dist.	7562 Feb 13 13:54	6° \mathbb{M} 58'18 0.47664 AU
	7557 Jan 21 05:08	0° \mathcal{B}		greatest brilliancy	7562 Feb 20 10:45	4° \mathbb{M} 30'43 -2.3m
desc. node	7557 Mar 11 12:06	0° \approx 18'14		opposition	7562 Feb 21 22:54	3° \mathbb{M} 58'04 4°57'11
	7557 Mar 11 00:04	0° \approx			7562 Mar 06 02:33	30° $\mathcal{R}\Omega$
	7557 Apr 30 18:47	0° \mathcal{H}		direct	7562 Mar 27 07:46	26° Ω 59'03
	7557 Jun 27 00:13	0° Υ			7562 Apr 18 22:20	0° \mathbb{M}
retrograde	7557 Aug 26 08:55	16° Υ 35'36			7562 Jun 27 12:13	0° Ω
opposition	7557 Sep 27 23:35	10° Υ 28'51	-6°01'26		7562 Aug 19 16:54	0° \mathbb{M}
greatest brilliancy	7557 Sep 29 19:22	9° Υ 53'57	-2.5m		7562 Oct 08 21:53	0° \mathcal{A}
min. Earth dist.	7557 Oct 06 08:17	7° Υ 49'52	0.43875 AU	desc. node	7562 Nov 01 07:10	14° \mathcal{A} 22'02
direct	7557 Nov 02 10:56	3° Υ 05'12			7562 Nov 26 06:36	0° \mathcal{B}
	7558 Jan 13 01:44	0° \mathcal{B}		evening set	7562 Dec 19 12:28	14° \mathcal{B} 50'52
asc. node	7558 Feb 07 16:51	16° \mathcal{B} 40'36		max. Earth dist.	7563 Jan 11 02:03	29° \mathcal{B} 34'17 2.60598 AU
	7558 Feb 26 19:49	0° \mathbb{I}			7563 Jan 11 17:37	0° \approx
	7558 Apr 09 08:56	0° Θ				
	7558 May 20 20:32	0° Ω		conjunction	7563 Feb 03 09:32	15° \approx 08'10 -0°46'14
	7558 Jul 02 11:50	0° \mathbb{M}		minimum elong	7563 Feb 03 08:18	15° \approx 06'06 0°46'09
	7558 Aug 15 17:35	0° Ω			7563 Feb 25 03:17	0° \mathcal{H}
	7558 Sep 30 12:17	0° \mathbb{M}		morning rise	7563 Mar 23 05:04	18° \mathcal{H} 17'19
evening set	7558 Oct 07 23:52	4° \mathbb{M} 49'44			7563 Apr 08 12:58	0° Υ
	7558 Nov 16 08:22	0° \mathcal{A}			7563 May 19 05:14	0° \mathcal{B}
					7563 Jun 27 15:51	0° \mathbb{I}
conjunction	7558 Nov 23 11:43	4° \mathcal{A} 32'22	0°32'37		7563 Aug 05 13:31	0° Θ
minimum elong	7558 Nov 23 12:38	4° \mathcal{A} 33'49	0°32'43		7563 Sep 13 21:32	0° Ω
max. Earth dist.	7558 Nov 26 03:06	6° \mathcal{A} 13'04	2.67771 AU	asc. node	7563 Sep 30 14:03	12° Ω 23'57
	7559 Jan 02 14:05	0° \mathcal{B}			7563 Oct 25 01:44	0° \mathbb{M}
morning rise	7559 Jan 06 14:00	2° \mathcal{B} 32'19			7563 Dec 09 21:43	0° Ω
desc. node	7559 Jan 27 09:50	15° \mathcal{B} 47'15		retrograde	7564 Feb 28 07:50	29° Ω 56'57
	7559 Feb 18 16:11	0° \approx		min. Earth dist.	7564 Apr 02 13:04	22° Ω 13'06 0.60163 AU
	7559 Apr 06 08:15	0° \mathcal{H}		greatest brilliancy	7564 Apr 07 03:40	20° Ω 23'51 -1.6m
	7559 May 22 16:15	0° Υ		opposition	7564 Apr 08 00:47	20° Ω 03'00 4°39'01
	7559 Jul 08 04:09	0° \mathcal{B}		direct	7564 May 15 14:26	11° Ω 23'35
	7559 Aug 25 16:39	0° \mathbb{I}			7564 Jul 20 13:45	0° \mathbb{M}
	7559 Nov 04 15:03	0° Θ			7564 Sep 16 08:03	0° \mathcal{A}
retrograde	7559 Nov 14 19:13	0° Θ 42'02		desc. node	7564 Sep 18 07:20	1° \mathcal{A} 06'53
	7559 Nov 24 23:18	30° $\mathcal{R}\mathbb{I}$			7564 Nov 06 01:57	0° \mathcal{B}
min. Earth dist.	7559 Dec 12 18:06	26° \mathbb{I} 08'14	0.36895 AU		7564 Dec 23 05:33	0° \approx
opposition	7559 Dec 15 06:48	25° \mathbb{I} 27'08	-0°52'25	evening set	7565 Jan 27 13:11	23° \approx 47'41
greatest brilliancy	7559 Dec 15 05:57	25° \mathbb{I} 27'42	-3.1m		7565 Feb 05 11:43	0° \mathcal{H}
asc. node	7559 Dec 26 16:07	22° \mathbb{I} 35'34		max. Earth dist.	7565 Feb 10 23:24	3° \mathcal{H} 50'44 2.49424 AU
direct	7560 Jan 13 15:28	20° \mathbb{I} 33'15			7565 Mar 19 07:01	0° Υ
	7560 Feb 23 01:20	0° Θ				
	7560 Apr 19 13:37	0° Ω		conjunction	7565 Mar 20 00:00	0° Υ 31'17 -1°06'36
	7560 Jun 06 23:39	0° \mathbb{M}		minimum elong	7565 Mar 19 23:59	0° Υ 31'15 1°06'36
	7560 Jul 24 11:25	0° Ω			7565 Apr 28 04:19	0° \mathcal{B}
	7560 Sep 10 04:48	0° \mathbb{M}		morning rise	7565 May 18 04:07	15° \mathcal{B} 25'59
	7560 Oct 28 01:29	0° \mathcal{A}			7565 Jun 05 20:00	0° \mathbb{I}
evening set	7560 Nov 13 07:55	10° \mathcal{A} 14'09			7565 Jul 14 00:59	0° Θ
desc. node	7560 Dec 14 07:45	29° \mathcal{A} 52'36		asc. node	7565 Aug 17 10:44	26° Θ 45'11
	7560 Dec 14 12:23	0° \mathcal{B}			7565 Aug 21 16:17	0° Ω
max. Earth dist.	7560 Dec 17 11:46	1° \mathcal{B} 53'53	2.66882 AU		7565 Sep 30 16:54	0° \mathbb{M}
					7565 Nov 12 06:04	0° Ω
conjunction	7560 Dec 28 00:23	8° \mathcal{B} 38'08	-0°07'15		7565 Dec 29 09:04	0° \mathbb{M}
minimum elong	7560 Dec 28 00:10	8° \mathcal{B} 37'47	0°07'08		7566 Mar 01 04:17	0° \mathcal{A}
behind sun begin	7560 Dec 27 07:21	8° \mathcal{B} 10'50		retrograde	7566 Apr 03 21:01	6° \mathcal{A} 12'51
behind sun end	7560 Dec 28 16:58	9° \mathcal{B} 04'45			7566 May 04 21:35	30° $\mathcal{R}\mathbb{M}$
	7561 Jan 29 23:32	0° \approx		min. Earth dist.	7566 May 12 15:54	26° \mathbb{M} 59'11 0.67078 AU
morning rise	7561 Feb 10 01:10	7° \approx 16'31		opposition	7566 May 14 08:28	26° \mathbb{M} 18'42 2°43'18
	7561 Mar 16 01:47	0° \mathcal{H}		greatest brilliancy	7566 May 14 04:55	26° \mathbb{M} 22'14 -1.3m
	7561 Apr 28 16:31	0° Υ		direct	7566 Jun 23 14:52	16° \mathbb{M} 44'44
	7561 Jun 09 21:54	0° \mathcal{B}		desc. node	7566 Aug 06 07:09	25° \mathbb{M} 54'03
	7561 Jul 21 02:09	0° \mathbb{I}			7566 Aug 16 18:08	0° \mathcal{A}

	7566 Oct 15 05:50	0°☾		conjunction	7571 Sep 29 17:15	11°☾47'09	1°06'38
	7566 Dec 03 14:26	0°♊		minimum elong	7571 Sep 29 17:38	11°☾47'48	1°06'39
	7567 Jan 17 09:22	0°♋		max. Earth dist.	7571 Oct 24 07:44	28°☾12'44	2.59826 AU
	7567 Feb 28 01:36	0°♌			7571 Oct 27 00:50	0°♌	
evening set	7567 Mar 19 21:45	14°♌53'54		morning rise	7571 Nov 18 14:18	14°♌42'52	
	7567 Apr 08 14:00	0°♍			7571 Dec 12 11:06	0°♍	
max. Earth dist.	7567 May 02 08:26	18°♍33'50	2.36920 AU		7572 Jan 29 12:27	0°☾	
	7567 May 16 20:23	0°♎			7572 Mar 19 13:48	0°♊	
				desc. node	7572 Mar 28 01:52	4°♊55'03	
conjunction	7567 May 23 10:41	5°♎13'08	-0°29'51		7572 May 13 04:45	0°♋	
minimum elong	7567 May 23 13:29	5°♎18'40	0°29'54	retrograde	7572 Aug 01 07:26	25°♋42'05	
	7567 Jun 23 18:30	0°♌		opposition	7572 Sep 04 22:36	18°♋43'33	-5°26'10
asc. node	7567 Jul 05 09:08	9°♌07'51		greatest brilliancy	7572 Sep 06 13:36	18°♋09'43	-2.1m
	7567 Aug 01 05:46	0°♍		min. Earth dist.	7572 Sep 13 13:36	15°♋45'07	0.49312 AU
morning rise	7567 Aug 04 08:20	2°♍23'06		direct	7572 Oct 12 20:56	10°♋09'54	
	7567 Sep 10 02:04	0°♎			7572 Dec 12 11:18	0°♌	
	7567 Oct 22 00:53	0°♏			7573 Jan 28 08:33	0°♍	
	7567 Dec 05 20:35	0°♐		asc. node	7573 Feb 24 08:06	19°♍28'46	
	7568 Jan 24 00:40	0°♑			7573 Mar 10 11:46	0°♎	
	7568 Mar 25 06:13	0°☾			7573 Apr 19 09:28	0°♏	
retrograde	7568 May 07 04:37	9°☾06'05			7573 May 29 18:53	0°♍	
	7568 Jun 15 08:24	30°♑♑			7573 Jul 10 14:06	0°♎	
opposition	7568 Jun 16 03:13	29°♑41'28	0°14'52		7573 Aug 23 04:20	0°♏	
greatest brilliancy	7568 Jun 16 03:50	29°♑40'51	-1.3m	evening set	7573 Sep 22 00:19	19°♏51'39	
min. Earth dist.	7568 Jun 18 05:56	28°♑51'27	0.67466 AU		7573 Oct 07 12:07	0°♐	
desc. node	7568 Jun 23 06:27	26°♑54'36					
direct	7568 Jul 27 15:10	19°♑41'02		conjunction	7573 Nov 09 03:24	21°♐04'12	0°45'50
	7568 Sep 11 16:03	0°☾		minimum elong	7573 Nov 09 04:32	21°♐06'02	0°45'55
	7568 Nov 09 19:24	0°♊		max. Earth dist.	7573 Nov 17 03:17	26°♐11'09	2.66610 AU
	7568 Dec 26 18:30	0°♋			7573 Nov 23 02:43	0°♑	
	7569 Feb 07 00:20	0°♌		morning rise	7573 Dec 24 02:39	19°♑41'05	
	7569 Mar 18 14:11	0°♍			7574 Jan 09 10:08	0°☾	
	7569 Apr 25 19:24	0°♎		desc. node	7574 Feb 13 00:01	21°☾49'08	
asc. node	7569 May 22 09:29	21°♎02'49			7574 Feb 25 23:42	0°♊	
evening set	7569 May 28 17:10	26°♎02'08			7574 Apr 14 18:10	0°♋	
	7569 Jun 02 17:57	0°♌			7574 Jun 02 06:59	0°♌	
	7569 Jul 11 08:32	0°♍			7574 Jul 23 17:13	0°♍	
				retrograde	7574 Oct 13 06:36	28°♍48'08	
conjunction	7569 Aug 05 09:47	18°♍55'05	0°47'11	opposition	7574 Nov 12 06:00	23°♍50'28	-4°18'38
minimum elong	7569 Aug 05 06:54	18°♍49'43	0°47'04	greatest brilliancy	7574 Nov 12 22:58	23°♍39'02	-3.0m
	7569 Aug 20 09:59	0°♎		min. Earth dist.	7574 Nov 15 13:10	22°♍57'16	0.37441 AU
max. Earth dist.	7569 Sep 20 15:09	22°♎24'51	2.47970 AU	direct	7574 Dec 12 19:16	18°♍33'14	
	7569 Oct 01 11:23	0°♏		asc. node	7575 Jan 12 08:39	24°♍27'01	
morning rise	7569 Oct 05 08:50	2°♏41'56			7575 Jan 25 19:23	0°♎	
	7569 Nov 14 20:27	0°♐			7575 Mar 19 09:14	0°♏	
	7569 Dec 31 19:19	0°♑			7575 May 03 23:54	0°♍	
	7570 Feb 20 06:26	0°☾			7575 Jun 18 00:13	0°♎	
	7570 Apr 20 15:49	0°♊			7575 Aug 02 19:03	0°♏	
desc. node	7570 May 11 04:38	7°♊36'16			7575 Sep 18 13:28	0°♐	
retrograde	7570 Jun 14 05:51	13°♊30'29		evening set	7575 Oct 31 04:53	27°♐00'59	
opposition	7570 Jul 22 08:53	4°♊59'06	-2°35'28		7575 Nov 04 22:09	0°♑	
greatest brilliancy	7570 Jul 22 20:53	4°♊47'37	-1.6m	max. Earth dist.	7575 Dec 09 19:51	22°♑06'25	2.67883 AU
min. Earth dist.	7570 Jul 28 04:23	2°♊45'53	0.61295 AU				
	7570 Aug 04 21:08	30°♑☾		conjunction	7575 Dec 15 05:43	25°♑32'48	0°08'46
direct	7570 Sep 01 10:28	25°☾04'46		minimum elong	7575 Dec 15 05:58	25°♑33'12	0°08'53
	7570 Sep 30 19:52	0°♊		behind sun begin	7575 Dec 14 14:23	25°♑08'27	
	7570 Dec 01 11:12	0°♋		behind sun end	7575 Dec 15 21:33	25°♑57'59	
	7571 Jan 15 12:21	0°♌			7575 Dec 22 05:30	0°☾	
	7571 Feb 25 01:22	0°♍		desc. node	7575 Dec 31 22:30	6°☾12'00	
	7571 Apr 04 18:22	0°♎		morning rise	7576 Jan 27 22:16	23°☾33'35	
asc. node	7571 Apr 09 09:05	3°♎36'42			7576 Feb 06 20:37	0°♊	
	7571 May 13 03:08	0°♏			7576 Mar 23 10:21	0°♋	
	7571 Jun 21 05:37	0°♍			7576 May 06 20:03	0°♌	
	7571 Jul 31 20:32	0°♎			7576 Jun 19 03:38	0°♍	
evening set	7571 Aug 04 20:42	2°♎53'10			7576 Jul 31 18:39	0°♎	
	7571 Sep 12 10:17	0°♏			7576 Sep 12 21:14	0°♏	
					7576 Oct 30 19:12	0°♍	

asc. node	7576 Nov 29 08:15	13°Ω23'47			7582 Mar 07 08:31	0°Υ	
retrograde	7576 Dec 25 23:36	18°Ω10'25		max. Earth dist.	7582 Mar 14 23:55	5°Υ40'56	2.41261 AU
min. Earth dist.	7577 Jan 21 08:01	13°Ω26'42	0.42296 AU		7582 Apr 15 23:54	0°Ϡ	
greatest brilliancy	7577 Jan 28 06:03	11°Ω12'08	-2.6m				
opposition	7577 Jan 29 10:34	10°Ω48'47	3°47'05	conjunction	7582 Apr 25 08:27	7°Ϡ14'46	-0°53'52
direct	7577 Mar 01 20:00	4°Ω46'00		minimum elong	7582 Apr 25 11:06	7°Ϡ19'55	0°53'55
	7577 May 16 10:50	0°൬			7582 May 24 09:22	0°Π	
	7577 Jul 08 23:10	0°♎			7582 Jul 01 09:27	0°☿	
	7577 Aug 28 04:11	0°♌		morning rise	7582 Jul 04 02:47	2°☿08'32	
	7577 Oct 16 05:15	0°♊		asc. node	7582 Jul 22 03:22	16°☿15'44	
desc. node	7577 Nov 17 21:02	20°♊21'17			7582 Aug 08 21:09	0°Ω	
	7577 Dec 03 03:16	0°♋			7582 Sep 17 17:10	0°൬	
evening set	7577 Dec 05 06:17	1°♋21'05			7582 Oct 29 17:56	0°♎	
max. Earth dist.	7577 Dec 31 23:19	18°♋30'35	2.63697 AU		7582 Dec 14 01:06	0°♌	
	7578 Jan 18 13:08	0°♍			7583 Feb 03 07:14	0°♊	
				retrograde	7583 Apr 24 16:51	26°♊36'11	
conjunction	7578 Jan 19 06:28	0°♍28'32	-0°32'02	opposition	7583 Jun 04 00:02	16°♊57'15	1°15'02
minimum elong	7578 Jan 19 05:32	0°♍27'00	0°31'55	greatest brilliancy	7583 Jun 04 01:01	16°♊56'16	-1.3m
	7578 Mar 04 03:59	0°♌		min. Earth dist.	7583 Jun 04 14:55	16°♊42'29	0.68095 AU
morning rise	7578 Mar 05 23:48	1°♌15'18		desc. node	7583 Jul 10 20:13	7°♊11'06	
	7578 Apr 15 23:03	0°Υ		direct	7583 Jul 15 04:49	7°♊04'05	
	7578 May 27 02:51	0°Ϡ			7583 Sep 27 20:11	0°♋	
	7578 Jul 06 01:25	0°Π			7583 Nov 20 00:06	0°♍	
	7578 Aug 14 11:10	0°☿			7584 Jan 04 19:22	0°♌	
	7578 Sep 23 10:14	0°Ω			7584 Feb 15 17:37	0°Υ	
asc. node	7578 Oct 17 06:06	17°Ω11'27			7584 Mar 26 05:46	0°Ϡ	
	7578 Nov 04 21:15	0°൬		evening set	7584 Apr 29 03:43	26°Ϡ36'32	
	7578 Dec 25 18:30	0°♎			7584 May 03 10:34	0°Π	
retrograde	7579 Feb 12 22:32	13°♎40'10		asc. node	7584 Jun 08 01:24	28°Π12'00	
min. Earth dist.	7579 Mar 16 23:38	6°♎42'10	0.55806 AU		7584 Jun 10 08:12	0°☿	
opposition	7579 Mar 23 20:32	4°♎02'32	5°05'51				
greatest brilliancy	7579 Mar 22 15:13	4°♎30'57	-1.8m	conjunction	7584 Jul 08 16:15	22°☿09'10	0°21'25
	7579 Apr 04 02:51	30°൬		minimum elong	7584 Jul 08 14:08	22°☿05'03	0°21'18
direct	7579 Apr 28 22:45	25°൬55'25			7584 Jul 18 20:36	0°Ω	
	7579 May 26 04:34	0°♎			7584 Aug 27 18:52	0°൬	
	7579 Aug 03 08:38	0°♌		max. Earth dist.	7584 Aug 30 09:42	1°൬55'10	2.42422 AU
	7579 Sep 25 20:36	0°♊		morning rise	7584 Sep 13 18:32	12°൬20'35	
desc. node	7579 Oct 05 20:43	5°♊54'25			7584 Oct 08 17:38	0°♎	
	7579 Nov 14 10:04	0°♋			7584 Nov 22 03:40	0°♌	
	7579 Dec 31 05:22	0°♍			7585 Jan 08 14:54	0°♊	
evening set	7580 Jan 12 02:32	7°♍53'25			7585 Mar 02 03:47	0°♋	
max. Earth dist.	7580 Jan 28 23:44	19°♍17'59	2.54336 AU	desc. node	7585 May 27 18:50	29°♋47'25	
	7580 Feb 13 12:06	0°♌		retrograde	7585 May 29 14:51	29°♋48'38	
				opposition	7585 Jul 07 15:09	20°♋52'56	-1°27'16
conjunction	7580 Feb 29 15:08	11°♌20'15	-1°02'48	greatest brilliancy	7585 Jul 07 20:05	20°♋48'09	-1.4m
minimum elong	7580 Feb 29 14:09	11°♌18'31	1°02'46	min. Earth dist.	7585 Jul 12 00:22	19°♋10'49	0.64480 AU
	7580 Mar 26 12:22	0°Υ		direct	7585 Aug 18 02:43	10°♋50'52	
morning rise	7580 Apr 23 01:20	20°Υ26'55			7585 Oct 21 13:47	0°♍	
	7580 May 05 16:07	0°Ϡ			7585 Dec 12 02:00	0°♌	
	7580 Jun 13 13:53	0°Π			7586 Jan 24 12:45	0°Υ	
	7580 Jul 21 23:39	0°☿			7586 Mar 05 12:41	0°Ϡ	
	7580 Aug 29 18:43	0°Ω			7586 Apr 12 22:46	0°Π	
asc. node	7580 Sep 03 04:56	3°Ω22'08		asc. node	7586 Apr 26 01:21	10°Π19'52	
	7580 Oct 09 00:43	0°൬			7586 May 21 01:47	0°☿	
	7580 Nov 21 05:07	0°♎			7586 Jun 28 21:59	0°Ω	
	7581 Jan 09 20:35	0°♌		evening set	7586 Jul 11 19:29	9°Ω44'06	
retrograde	7581 Mar 21 11:36	23°♌02'35			7586 Aug 08 06:04	0°൬	
min. Earth dist.	7581 Apr 27 15:49	14°♌20'00	0.65140 AU				
opposition	7581 Apr 30 20:25	13°♌03'34	3°33'23	conjunction	7586 Sep 10 11:45	23°൬41'26	1°05'50
greatest brilliancy	7581 Apr 30 11:14	13°♌12'44	-1.4m	minimum elong	7586 Sep 10 11:00	23°൬40'07	1°05'50
direct	7581 Jun 09 06:03	3°♌46'58			7586 Sep 19 13:33	0°♎	
desc. node	7581 Aug 22 20:49	26°♌14'34		max. Earth dist.	7586 Oct 12 23:49	15°♎59'31	2.55745 AU
	7581 Aug 30 12:21	0°♊		morning rise	7586 Nov 02 17:54	29°♎49'42	
	7581 Oct 23 22:02	0°♋			7586 Nov 03 00:09	0°♌	
	7581 Dec 11 03:38	0°♍			7586 Dec 19 12:25	0°♊	
	7582 Jan 24 15:45	0°♌			7587 Feb 06 04:30	0°♋	
evening set	7582 Feb 25 20:32	23°♌00'52			7587 Mar 30 05:40	0°♍	

desc. node	7587 Apr 14 17:08	8° \approx 14'46		7592 May 30 16:37	0° \mathbb{M}	
	7587 Jun 02 04:53	0° \mathbb{H}		7592 Jul 18 15:23	0° $\underline{\mathbb{L}}$	
retrograde	7587 Jul 12 03:52	7° \mathbb{H} 55'21		7592 Sep 05 01:44	0° \mathbb{M}	
opposition	7587 Aug 17 09:40	0° \mathbb{H} 13'49 -4°24'36		7592 Oct 23 07:08	0° \mathbb{A}	
	7587 Aug 18 00:46	30° \mathbb{R} \approx	evening set	7592 Nov 21 07:43	18° \mathbb{A} 13'18	
greatest brilliancy	7587 Aug 18 13:44	29° \approx 48'07 -1.9m	desc. node	7592 Dec 04 10:49	26° \mathbb{A} 31'57	
min. Earth dist.	7587 Aug 25 04:44	27° \approx 23'23 0.54563 AU		7592 Dec 09 21:39	0° \mathbb{Z}	
direct	7587 Sep 26 00:37	20° \approx 54'24	max. Earth dist.	7592 Dec 22 16:14	8° \mathbb{Z} 09'58 2.65980 AU	
	7587 Nov 04 18:45	0° \mathbb{H}				
	7587 Dec 28 23:55	0° \mathbb{Y}	conjunction	7593 Jan 04 23:40	16° \mathbb{Z} 44'18 -0°16'34	
	7588 Feb 09 17:32	0° \mathbb{B}	minimum elong	7593 Jan 04 23:10	16° \mathbb{Z} 43'30 0°16'27	
asc. node	7588 Mar 13 01:29	24° \mathbb{B} 21'28		7593 Jan 25 08:12	0° \approx	
	7588 Mar 20 10:14	0° \mathbb{II}	morning rise	7593 Feb 18 10:20	15° \approx 57'13	
	7588 Apr 28 11:24	0° \mathbb{G}		7593 Mar 11 06:20	0° \mathbb{H}	
	7588 Jun 07 04:30	0° Ω		7593 Apr 23 13:43	0° \mathbb{Y}	
	7588 Jul 18 09:20	0° \mathbb{M}		7593 Jun 04 09:13	0° \mathbb{B}	
	7588 Aug 30 11:34	0° $\underline{\mathbb{L}}$		7593 Jul 15 01:10	0° \mathbb{II}	
evening set	7588 Sep 04 13:38	3° $\underline{\mathbb{L}}$ 27'18		7593 Aug 24 06:36	0° \mathbb{G}	
	7588 Oct 14 10:38	0° \mathbb{M}		7593 Oct 04 10:36	0° Ω	
			asc. node	7593 Nov 03 00:53	20° Ω 06'29	
conjunction	7588 Oct 25 00:10	6° \mathbb{M} 53'39 0°56'45		7593 Nov 18 23:35	0° \mathbb{M}	
minimum elong	7588 Oct 25 01:19	6° \mathbb{M} 55'31 0°56'48	retrograde	7594 Jan 26 21:12	24° \mathbb{M} 58'44	
max. Earth dist.	7588 Nov 07 22:43	15° \mathbb{M} 55'17 2.64607 AU	min. Earth dist.	7594 Feb 25 13:13	18° \mathbb{M} 53'14 0.50657 AU	
	7588 Nov 29 21:47	0° \mathbb{A}	greatest brilliancy	7594 Mar 04 01:36	16° \mathbb{M} 27'58 -2.1m	
morning rise	7588 Dec 10 08:53	6° \mathbb{A} 39'20	opposition	7594 Mar 05 13:06	15° \mathbb{M} 54'48 5°11'05	
	7589 Jan 16 09:29	0° \mathbb{Z}	direct	7594 Apr 08 21:41	8° \mathbb{M} 29'05	
desc. node	7589 Mar 01 14:52	27° \mathbb{Z} 30'57		7594 Jun 18 10:25	0° $\underline{\mathbb{L}}$	
	7589 Mar 05 15:34	0° \approx		7594 Aug 13 14:29	0° \mathbb{M}	
	7589 Apr 24 01:24	0° \mathbb{H}		7594 Oct 03 18:12	0° \mathbb{A}	
	7589 Jun 15 15:25	0° \mathbb{Y}	desc. node	7594 Oct 22 09:51	11° \mathbb{A} 19'12	
	7589 Aug 31 09:39	0° \mathbb{B}		7594 Nov 21 12:18	0° \mathbb{Z}	
retrograde	7589 Sep 11 13:28	0° \mathbb{B} 45'09	evening set	7594 Dec 27 21:04	23° \mathbb{Z} 17'48	
	7589 Sep 22 10:09	30° \mathbb{R} \mathbb{Y}		7595 Jan 07 02:18	0° \approx	
opposition	7589 Oct 12 23:52	25° \mathbb{Y} 08'26 -5°54'38	max. Earth dist.	7595 Jan 17 04:58	6° \approx 42'24 2.58566 AU	
greatest brilliancy	7589 Oct 14 15:28	24° \mathbb{Y} 38'38 -2.7m				
min. Earth dist.	7589 Oct 20 06:53	22° \mathbb{Y} 57'30 0.41059 AU	conjunction	7595 Feb 12 11:38	24° \approx 29'31 -0°53'24	
direct	7589 Nov 15 17:53	18° \mathbb{Y} 32'27	minimum elong	7595 Feb 12 10:22	24° \approx 27'20 0°53'19	
	7589 Dec 29 01:16	0° \mathbb{B}		7595 Feb 20 11:12	0° \mathbb{H}	
asc. node	7590 Jan 29 00:15	17° \mathbb{B} 07'56	morning rise	7595 Apr 02 21:47	29° \mathbb{H} 23'58	
	7590 Feb 17 23:23	0° \mathbb{II}		7595 Apr 03 17:39	0° \mathbb{Y}	
	7590 Apr 02 07:17	0° \mathbb{G}		7595 May 14 05:26	0° \mathbb{B}	
	7590 May 14 17:54	0° Ω		7595 Jun 22 11:07	0° \mathbb{II}	
	7590 Jun 27 00:08	0° \mathbb{M}		7595 Jul 31 03:58	0° \mathbb{G}	
	7590 Aug 10 16:22	0° $\underline{\mathbb{L}}$		7595 Sep 08 06:01	0° Ω	
	7590 Sep 25 17:50	0° \mathbb{M}	asc. node	7595 Sep 20 21:50	9° Ω 30'46	
evening set	7590 Oct 16 15:06	13° \mathbb{M} 23'06		7595 Oct 18 22:57	0° \mathbb{M}	
	7590 Nov 11 17:27	0° \mathbb{A}		7595 Dec 02 09:36	0° $\underline{\mathbb{L}}$	
				7596 Jan 27 15:22	0° \mathbb{M}	
conjunction	7590 Dec 01 10:54	12° \mathbb{A} 31'19 0°24'08	retrograde	7596 Mar 07 13:58	8° \mathbb{M} 58'53	
minimum elong	7590 Dec 01 11:36	12° \mathbb{A} 32'25 0°24'14	min. Earth dist.	7596 Apr 11 22:16	0° \mathbb{M} 52'43 0.62192 AU	
max. Earth dist.	7590 Dec 01 04:55	12° \mathbb{A} 21'49 2.68054 AU		7596 Apr 14 03:26	30° \mathbb{R} $\underline{\mathbb{L}}$	
	7590 Dec 28 23:14	0° \mathbb{Z}	opposition	7596 Apr 16 14:43	29° $\underline{\mathbb{L}}$ 01'04 4°17'36	
morning rise	7591 Jan 14 06:29	10° \mathbb{Z} 23'21	greatest brilliancy	7596 Apr 15 22:12	29° $\underline{\mathbb{L}}$ 17'27 -1.5m	
desc. node	7591 Jan 17 12:45	12° \mathbb{Z} 28'17	direct	7596 May 24 21:54	20° $\underline{\mathbb{L}}$ 06'55	
	7591 Feb 13 20:48	0° \approx		7596 Jul 09 07:05	0° \mathbb{M}	
	7591 Apr 01 02:23	0° \mathbb{H}	desc. node	7596 Sep 08 10:01	29° \mathbb{M} 05'05	
	7591 May 16 14:56	0° \mathbb{Y}		7596 Sep 10 02:20	0° \mathbb{A}	
	7591 Jun 30 15:46	0° \mathbb{B}		7596 Oct 31 21:48	0° \mathbb{Z}	
	7591 Aug 15 01:23	0° \mathbb{II}		7596 Dec 18 10:09	0° \approx	
	7591 Oct 03 11:52	0° \mathbb{G}		7597 Jan 31 18:53	0° \mathbb{H}	
retrograde	7591 Dec 01 08:49	19° \mathbb{G} 05'32	evening set	7597 Feb 06 13:33	4° \mathbb{H} 02'56	
asc. node	7591 Dec 17 01:00	17° \mathbb{G} 26'02	max. Earth dist.	7597 Feb 20 13:28	13° \mathbb{H} 59'22 2.46557 AU	
min. Earth dist.	7591 Dec 27 18:30	14° \mathbb{G} 45'12 0.38071 AU		7597 Mar 14 13:47	0° \mathbb{Y}	
opposition	7592 Jan 02 03:39	13° \mathbb{G} 12'40 1°11'24				
greatest brilliancy	7592 Jan 01 20:38	13° \mathbb{G} 17'41 -3.0m	conjunction	7597 Apr 01 03:01	13° \mathbb{Y} 04'27 -1°05'09	
direct	7592 Jan 31 17:57	8° \mathbb{G} 03'33	minimum elong	7597 Apr 01 03:54	13° \mathbb{Y} 06'06 1°05'10	
	7592 Apr 08 07:00	0° Ω		7597 Apr 23 09:15	0° \mathbb{B}	

	7597 May 31 22:33	0°♄	
morning rise	7597 Jun 03 02:43	1°♄42'29	
	7597 Jul 09 01:21	0°♅	
asc. node	7597 Aug 07 19:28	23°♅13'17	
	7597 Aug 16 14:33	0°♆	
	7597 Sep 25 12:04	0°♇	
	7597 Nov 06 18:19	0°♈	
	7597 Dec 22 22:44	0°♉	
	7598 Feb 16 13:16	0°♊	
retrograde	7598 Apr 11 10:52	14°♊02'34	
opposition	7598 May 21 22:23	4°♊12'51	2°11'50
min. Earth dist.	7598 May 21 01:36	4°♊33'34	0.67716 AU
greatest brilliancy	7598 May 21 21:08	4°♊14'07	-1.3m
	7598 Jun 01 23:32	30°♋	
direct	7598 Jul 01 14:36	24°♋31'02	
desc. node	7598 Jul 27 10:06	28°♋04'08	
	7598 Aug 03 07:35	0°♌	
	7598 Oct 08 21:03	0°♍	
	7598 Nov 28 07:42	0°♎	
	7599 Jan 12 10:50	0°♏	
	7599 Feb 23 05:37	0°♐	
evening set	7599 Apr 02 19:42	29°♐16'04	
	7599 Apr 03 18:23	0°♑	
	7599 May 12 00:19	0°♒	
conjunction	7599 Jun 09 09:20	22°♒28'21	-0°11'46
minimum elong	7599 Jun 09 10:37	22°♒30'53	0°11'51
behind sun begin	7599 Jun 08 13:38	21°♒49'24	
behind sun end	7599 Jun 10 07:36	23°♒12'22	
	7599 Jun 18 22:04	0°♓	
asc. node	7599 Jun 25 18:53	5°♓24'29	
max. Earth dist.	7599 Jul 19 02:58	23°♓37'45	2.37373 AU
	7599 Jul 27 09:07	0°♈	
morning rise	7599 Aug 20 10:05	18°♈15'56	
	7599 Sep 05 04:57	0°♉	
	7599 Oct 17 02:14	0°♊	
	7599 Nov 30 15:58	0°♋	
	7600 Jan 17 23:47	0°♌	
	7600 Mar 14 10:26	0°♍	
retrograde	7600 May 15 03:02	16°♍50'02	
desc. node	7600 Jun 13 09:23	11°♍28'59	
opposition	7600 Jun 23 19:10	7°♍34'35	-0°21'55
greatest brilliancy	7600 Jun 23 20:00	7°♍33'46	-1.4m
min. Earth dist.	7600 Jun 26 17:24	6°♍25'41	0.66673 AU
	7600 Jul 15 18:56	30°♎	
direct	7600 Aug 04 09:02	27°♎32'02	
	7600 Aug 25 07:45	0°♏	
	7600 Nov 03 01:50	0°♐	
	7600 Dec 21 05:33	0°♑	
	7601 Feb 01 20:09	0°♒	
	7601 Mar 13 13:15	0°♓	
	7601 Apr 20 19:52	0°♈	
asc. node	7601 May 12 17:06	17°♈18'22	
	7601 May 28 19:37	0°♉	
evening set	7601 Jun 14 08:14	12°♉55'32	
	7601 Jul 06 11:39	0°♊	
	7601 Aug 15 14:32	0°♋	
conjunction	7601 Aug 19 10:05	2°♋46'52	0°56'55
minimum elong	7601 Aug 19 07:49	2°♋42'44	0°56'50
	7601 Sep 26 17:05	0°♌	
max. Earth dist.	7601 Sep 29 14:50	2°♌00'53	2.50922 AU
morning rise	7601 Oct 16 06:04	13°♌24'50	
	7601 Nov 10 01:14	0°♍	
	7601 Dec 26 18:17	0°♎	