

conjunction	15101 Feb 15 20:13	8° X 59'58	-0°10'17		15106 Feb 01 17:36	0° X	
minimum elong	15101 Feb 15 19:47	8° X 59'15	0°09'50		15106 Mar 20 21:09	0° Z	
behind sun begin	15101 Feb 15 03:10	8° X 31'31		retrograde	15106 May 15 23:08	18° Z 23'10	
behind sun end	15101 Feb 16 12:23	9° X 26'58		min. Earth dist.	15106 Jun 11 23:17	13° Z 23'22	0.43827 AU
max. Earth dist.	15101 Mar 09 10:57	23° X 17'47	2.61353 AU	greatest brilliancy	15106 Jun 18 21:35	11° Z 03'25	-2.5m
	15101 Mar 19 17:33	0° Y		opposition	15106 Jun 20 06:05	10° Z 35'56	4°53'38
morning rise	15101 Apr 04 09:19	10° Y 06'33		direct	15106 Jul 22 06:17	4° Z 15'56	
	15101 May 05 17:18	0° X		desc. node	15106 Sep 21 21:01	22° Z 01'16	
	15101 Jun 23 06:50	0° II			15106 Oct 08 01:50	0° \approx	
	15101 Aug 12 22:38	0° E			15106 Dec 01 07:42	0° X	
	15101 Oct 07 18:27	0° O			15107 Jan 20 22:43	0° Y	
retrograde	15101 Dec 19 17:48	22° O 12'47			15107 Mar 11 00:14	0° X	
opposition	15102 Jan 22 17:04	15° O 24'43	-1°38'11	evening set	15107 Apr 20 20:12	25° X 39'50	
greatest brilliancy	15102 Jan 23 08:19	15° O 11'35	-2.3m		15107 Apr 27 15:01	0° II	
min. Earth dist.	15102 Jan 31 09:34	12° O 25'50	0.47430 AU	max. Earth dist.	15107 May 16 09:58	12° II 07'59	2.63242 AU
asc. node	15102 Feb 19 14:08	7° O 41'15					
direct	15102 Feb 28 21:56	7° O 03'29		conjunction	15107 Jun 04 08:53	24° II 34'06	-1°05'58
	15102 May 05 02:04	0° P		minimum elong	15107 Jun 04 09:52	24° II 35'44	1°06'55
	15102 Jun 19 11:34	0° E			15107 Jun 12 13:14	0° E	
	15102 Jul 30 07:14	0° M		morning rise	15107 Jul 20 22:28	26° E 03'28	
	15102 Sep 08 10:53	0° X			15107 Jul 26 14:50	0° O	
	15102 Oct 19 11:28	0° Z			15107 Sep 06 19:55	0° P	
	15102 Dec 01 02:11	0° \approx		asc. node	15107 Oct 12 12:34	26° P 20'20	
desc. node	15102 Dec 17 09:47	11° \approx 09'43			15107 Oct 17 09:35	0° E	
	15103 Jan 14 11:47	0° X			15107 Nov 25 18:46	0° M	
evening set	15103 Feb 08 13:12	16° X 28'04			15108 Jan 03 18:23	0° X	
	15103 Mar 01 10:31	0° Y			15108 Feb 12 13:34	0° Z	
					15108 Mar 26 08:04	0° \approx	
conjunction	15103 Mar 26 17:17	16° Y 11'58	-0°51'43		15108 May 18 07:40	0° X	
minimum elong	15103 Mar 26 16:01	16° Y 09'56	0°51'52	retrograde	15108 Jun 30 15:43	10° X 46'53	
max. Earth dist.	15103 Apr 02 08:13	20° Y 25'00	2.67486 AU	min. Earth dist.	15108 Aug 02 12:53	3° X 34'40	0.57366 AU
	15103 Apr 17 10:20	0° X		opposition	15108 Aug 09 02:32	1° X 02'07	0°00'22
morning rise	15103 May 09 08:02	13° X 51'31		greatest brilliancy	15107 Jun 22 13:51	6° E 42'46	1.6m
	15103 Jun 03 21:57	0° II		desc. node	15108 Aug 09 05:49	0° X 58'56	
	15103 Jul 21 12:18	0° E			15108 Aug 11 19:11	30° R \approx	
	15103 Sep 07 04:16	0° O		direct	15108 Sep 15 01:01	22° \approx 42'59	
	15103 Oct 25 08:28	0° P			15108 Oct 22 23:31	0° X	
	15103 Dec 14 23:13	0° E			15108 Dec 27 07:13	0° Y	
asc. node	15104 Jan 07 19:52	12° E 34'50			15109 Feb 18 04:31	0° X	
retrograde	15104 Mar 04 23:53	29° E 21'05			15109 Apr 08 02:23	0° II	
opposition	15104 Apr 03 11:55	24° E 29'49	5°53'52		15109 May 24 03:55	0° E	
greatest brilliancy	15104 Apr 03 16:45	24° E 26'35	-3.0m	evening set	15109 May 27 11:04	2° E 12'52	
min. Earth dist.	15104 Apr 04 22:57	24° E 06'26	0.36547 AU	max. Earth dist.	15109 Jun 12 10:16	13° E 04'08	2.53183 AU
direct	15104 May 03 05:52	19° E 28'56			15109 Jul 06 17:12	0° O	
	15104 Jun 14 04:05	0° M					
	15104 Aug 07 00:37	0° X		conjunction	15109 Jul 15 23:42	6° O 35'56	-0°28'46
	15104 Sep 22 16:48	0° Z		minimum elong	15109 Jul 16 01:10	6° O 38'34	0°29'35
desc. node	15104 Nov 03 12:14	27° Z 13'45			15109 Aug 17 01:43	0° P	
	15104 Nov 07 18:49	0° \approx		asc. node	15109 Aug 29 00:07	8° P 55'03	
	15104 Dec 24 11:30	0° X		morning rise	15109 Sep 10 16:56	18° P 31'41	
	15105 Feb 09 20:00	0° Y			15109 Sep 25 16:26	0° E	
evening set	15105 Mar 16 19:39	22° Y 02'46			15109 Nov 03 04:16	0° M	
	15105 Mar 29 10:11	0° X			15109 Dec 11 08:25	0° X	
max. Earth dist.	15105 Apr 23 07:47	15° X 45'41	2.68108 AU		15110 Jan 19 03:39	0° Z	
					15110 Feb 28 17:11	0° \approx	
conjunction	15105 Apr 29 13:38	19° X 43'50	-1°11'30		15110 Apr 13 16:56	0° X	
minimum elong	15105 Apr 29 13:10	19° X 43'05	1°12'10		15110 Jun 04 13:24	0° Y	
	15105 May 15 15:59	0° II		desc. node	15110 Jun 27 11:16	10° Y 07'07	
morning rise	15105 Jun 11 19:14	17° II 28'08		retrograde	15110 Aug 06 04:49	18° Y 32'26	
	15105 Jul 01 01:00	0° E		min. Earth dist.	15110 Sep 13 01:50	9° Y 42'43	0.66252 AU
	15105 Aug 15 05:36	0° O		opposition	15110 Sep 15 23:26	8° Y 33'48	-2°58'01
	15105 Sep 28 02:25	0° P		greatest brilliancy	15110 Sep 15 14:41	8° Y 42'28	-1.4m
	15105 Nov 09 16:53	0° E			15110 Oct 14 13:21	30° R X	
asc. node	15105 Nov 24 19:40	10° E 49'02		direct	15110 Oct 25 21:52	29° X 11'15	
	15105 Dec 21 11:24	0° M			15110 Nov 06 19:51	0° Y	

	15111 Jan 25 07:52	0°♄			15116 Feb 10 11:20	0°♄	
	15111 Mar 19 01:31	0°♄		desc. node	15116 Feb 16 09:59	4°♄01'59	
	15111 May 05 04:02	0°♄		max. Earth dist.	15116 Feb 27 19:18	11°♄41'24	2.57449 AU
	15111 Jun 17 17:46	0°♄		morning rise	15116 Mar 20 13:06	26°♄03'30	
evening set	15111 Jul 13 17:17	18°♄50'39			15116 Mar 26 14:11	0°♄	
asc. node	15111 Jul 16 15:29	21°♄00'30			15116 May 12 17:58	0°♄	
	15111 Jul 28 16:31	0°♄			15116 Jul 01 03:00	0°♄	
max. Earth dist.	15111 Aug 01 13:11	2°♄54'34	2.39549 AU		15116 Aug 23 06:55	0°♄	
	15111 Sep 05 18:48	0°♄			15116 Nov 01 09:36	0°♄	
				retrograde	15116 Nov 27 13:59	3°♄40'30	
conjunction	15111 Sep 14 09:42	6°♄44'59	0°39'50		15116 Dec 21 19:07	30°♄	
minimum elong	15111 Sep 14 06:17	6°♄38'17	0°39'48	opposition	15117 Jan 02 09:49	26°♄06'42	-3°14'12
	15111 Oct 13 20:05	0°♄		greatest brilliancy	15117 Jan 03 11:35	25°♄43'15	-2.0m
	15111 Nov 20 17:25	0°♄		min. Earth dist.	15117 Jan 10 14:40	23°♄07'56	0.53006 AU
morning rise	15111 Nov 27 12:25	5°♄20'12		direct	15117 Feb 10 12:59	16°♄54'50	
	15111 Dec 29 08:15	0°♄		asc. node	15117 Mar 08 01:12	21°♄02'18	
	15112 Feb 07 13:26	0°♄			15117 Mar 30 14:46	0°♄	
	15112 Mar 21 06:04	0°♄			15117 May 20 03:49	0°♄	
	15112 May 06 14:41	0°♄			15117 Jun 30 21:33	0°♄	
desc. node	15112 May 14 08:15	4°♄41'34			15117 Aug 09 07:35	0°♄	
	15112 Jun 29 03:46	0°♄			15117 Sep 17 13:29	0°♄	
retrograde	15112 Sep 08 04:42	21°♄26'28			15117 Oct 27 20:01	0°♄	
opposition	15112 Oct 18 19:02	11°♄49'45	-4°31'27		15117 Dec 08 18:57	0°♄	
greatest brilliancy	15112 Oct 18 21:26	11°♄47'23	-1.2m	desc. node	15118 Jan 03 02:34	17°♄28'17	
min. Earth dist.	15112 Oct 19 18:21	11°♄26'48	0.68591 AU		15118 Jan 21 15:44	0°♄	
direct	15112 Nov 29 05:40	1°♄54'32		evening set	15118 Jan 23 04:33	1°♄01'36	
	15113 Feb 21 12:26	0°♄			15118 Mar 08 06:03	0°♄	
	15113 Apr 13 08:33	0°♄					
	15113 May 27 20:45	0°♄		conjunction	15118 Mar 12 09:18	2°♄40'28	-0°38'03
asc. node	15113 Jun 02 13:42	4°♄03'03		minimum elong	15118 Mar 12 08:05	2°♄38'30	0°37'58
	15113 Jul 07 21:32	0°♄		max. Earth dist.	15118 Mar 24 13:23	10°♄30'25	2.65725 AU
	15113 Aug 15 19:57	0°♄			15118 Apr 24 03:47	0°♄	
evening set	15113 Sep 19 21:13	27°♄43'25		morning rise	15118 Apr 26 01:32	1°♄12'24	
	15113 Sep 22 17:57	0°♄			15118 Jun 10 22:08	0°♄	
	15113 Oct 30 15:25	0°♄			15118 Jul 29 08:49	0°♄	
					15118 Sep 16 21:39	0°♄	
conjunction	15113 Dec 01 13:33	24°♄46'36	1°02'00		15118 Nov 08 13:02	0°♄	
minimum elong	15113 Dec 01 16:05	24°♄51'26	1°02'56	asc. node	15119 Jan 24 09:50	29°♄03'44	
	15113 Dec 08 09:57	0°♄		retrograde	15119 Feb 01 01:53	29°♄25'28	
	15114 Jan 17 19:32	0°♄		opposition	15119 Mar 03 17:26	24°♄03'20	2°41'38
max. Earth dist.	15114 Jan 21 02:16	2°♄22'16	2.44336 AU	greatest brilliancy	15119 Mar 04 07:25	23°♄53'07	-2.8m
morning rise	15114 Feb 03 12:52	11°♄58'47		min. Earth dist.	15119 Mar 10 03:28	22°♄11'20	0.39307 AU
	15114 Mar 01 09:45	0°♄		direct	15119 Apr 05 06:42	17°♄50'32	
desc. node	15114 Mar 31 21:35	20°♄26'35			15119 May 19 20:47	0°♄	
	15114 Apr 15 14:37	0°♄			15119 Jul 09 08:59	0°♄	
	15114 Jun 03 02:36	0°♄			15119 Aug 22 03:32	0°♄	
	15114 Jul 27 14:13	0°♄			15119 Oct 04 09:42	0°♄	
retrograde	15114 Oct 14 14:05	24°♄40'48			15119 Nov 17 14:57	0°♄	
opposition	15114 Nov 22 15:57	15°♄48'28	-4°50'17	desc. node	15119 Nov 21 00:47	2°♄16'36	
greatest brilliancy	15114 Nov 23 11:39	15°♄29'27	-1.4m		15120 Jan 02 04:08	0°♄	
min. Earth dist.	15114 Nov 27 12:55	13°♄55'34	0.64063 AU		15120 Feb 17 20:16	0°♄	
direct	15115 Jan 03 01:41	5°♄47'55		evening set	15120 Mar 02 20:05	8°♄53'59	
	15115 Mar 17 12:19	0°♄			15120 Apr 05 02:57	0°♄	
asc. node	15115 Apr 20 17:28	20°♄22'42		max. Earth dist.	15120 Apr 14 17:05	6°♄04'29	2.68519 AU
	15115 May 05 08:25	0°♄					
	15115 Jun 16 13:44	0°♄		conjunction	15120 Apr 16 03:17	6°♄58'39	-1°06'36
	15115 Jul 25 21:49	0°♄		minimum elong	15120 Apr 16 02:23	6°♄57'13	1°07'05
	15115 Sep 02 01:50	0°♄			15120 May 22 09:13	0°♄	
	15115 Oct 10 07:14	0°♄		morning rise	15120 May 29 03:27	4°♄18'42	
	15115 Nov 18 12:59	0°♄			15120 Jul 08 02:59	0°♄	
evening set	15115 Dec 03 06:04	10°♄56'49			15120 Aug 23 01:16	0°♄	
	15115 Dec 29 11:21	0°♄			15120 Oct 07 01:32	0°♄	
					15120 Nov 20 07:41	0°♄	
conjunction	15116 Jan 30 01:23	22°♄10'54	0°10'36	asc. node	15120 Dec 11 12:17	14°♄25'15	
minimum elong	15116 Jan 30 01:59	22°♄11'55	0°11'15		15121 Jan 03 15:15	0°♄	
behind sun begin	15116 Jan 29 09:55	21°♄44'14			15121 Feb 20 12:58	0°♄	
behind sun end	15116 Jan 30 18:03	22°♄39'35		retrograde	15121 Apr 21 22:21	20°♄28'10	

min. Earth dist.	15121 May 17 19:47	16° ♁ 06'56	0.39028 AU	asc. node	15126 Aug 02 10:34	28° ♁ 04'18	
greatest brilliancy	15121 May 22 20:50	14° ♁ 37'04	-2.8m		15126 Aug 05 00:28	0° ♁	
opposition	15121 May 24 06:27	14° ♁ 11'52	6°45'07				
direct	15121 Jun 23 06:46	8° ♁ 50'48		conjunction	15126 Aug 18 15:08	10° ♁ 15'59	0°11'15
	15121 Aug 29 01:38	0° ♁		minimum elong	15126 Aug 18 14:17	10° ♁ 14'22	0°10'49
desc. node	15121 Oct 08 07:12	22° ♁ 07'02		behind sun begin	15126 Aug 17 18:40	9° ♁ 37'09	
	15121 Oct 21 18:39	0° ♁		behind sun end	15126 Aug 19 09:54	10° ♁ 51'37	
	15121 Dec 10 15:33	0° ♁			15126 Sep 13 07:05	0° ♁	
	15122 Jan 28 14:37	0° ♁			15126 Oct 21 11:48	0° ♁	
	15122 Mar 17 22:58	0° ♁		morning rise	15126 Oct 25 16:27	3° ♁ 19'06	
evening set	15122 Apr 07 03:55	12° ♁ 41'56			15126 Nov 28 10:42	0° ♁	
	15122 May 04 08:34	0° ♁			15127 Jan 06 01:36	0° ♁	
max. Earth dist.	15122 May 07 05:08	1° ♁ 50'00	2.65788 AU		15127 Feb 15 07:13	0° ♁	
					15127 Mar 30 05:29	0° ♁	
conjunction	15122 May 20 23:42	10° ♁ 43'26	-1°11'28		15127 May 16 16:18	0° ♁	
minimum elong	15122 May 21 00:07	10° ♁ 44'05	1°12'20	desc. node	15127 May 31 23:57	8° ♁ 44'35	
	15122 Jun 19 09:37	0° ♁			15127 Jul 15 14:15	0° ♁	
morning rise	15122 Jul 04 16:48	10° ♁ 12'08		retrograde	15127 Aug 26 23:30	9° ♁ 04'17	
	15122 Aug 02 19:54	0° ♁			15127 Oct 04 22:46	30° ♁	
	15122 Sep 14 13:28	0° ♁		opposition	15127 Oct 06 19:07	29° ♁ 16'12	-4°04'03
	15122 Oct 25 17:36	0° ♁		min. Earth dist.	15127 Oct 06 05:51	29° ♁ 29'19	0.68484 AU
asc. node	15122 Oct 29 07:09	2° ♁ 38'38		greatest brilliancy	15127 Oct 06 15:49	29° ♁ 19'28	-1.2m
	15122 Dec 04 17:52	0° ♁		direct	15127 Nov 16 19:28	19° ♁ 30'47	
	15123 Jan 13 10:14	0° ♁			15128 Jan 02 23:08	0° ♁	
	15123 Feb 23 08:00	0° ♁			15128 Mar 03 16:31	0° ♁	
	15123 Apr 10 06:01	0° ♁			15128 Apr 21 12:03	0° ♁	
retrograde	15123 Jun 15 07:09	23° ♁ 07'45			15128 Jun 04 12:18	0° ♁	
min. Earth dist.	15123 Jul 15 20:11	16° ♁ 44'40	0.52363 AU	asc. node	15128 Jun 19 04:38	10° ♁ 32'41	
opposition	15123 Jul 23 14:08	13° ♁ 50'24	1°40'48		15128 Jul 15 11:05	0° ♁	
greatest brilliancy	15123 Jul 23 03:01	14° ♁ 00'51	-2.0m	evening set	15128 Aug 20 17:49	27° ♁ 53'41	
desc. node	15123 Aug 26 17:13	6° ♁ 10'10			15128 Aug 23 10:24	0° ♁	
direct	15123 Aug 27 20:44	6° ♁ 09'39			15128 Sep 30 09:11	0° ♁	
	15123 Nov 12 00:26	0° ♁					
	15124 Jan 06 22:15	0° ♁		conjunction	15128 Nov 01 01:24	25° ♁ 07'23	1°06'58
	15124 Feb 26 20:16	0° ♁		minimum elong	15128 Nov 01 00:22	25° ♁ 05'22	1°07'42
	15124 Apr 15 02:50	0° ♁			15128 Nov 07 05:52	0° ♁	
evening set	15124 May 12 02:53	17° ♁ 26'40			15128 Dec 15 21:59	0° ♁	
max. Earth dist.	15124 May 31 09:32	0° ♁ 12'52	2.57720 AU	max. Earth dist.	15128 Dec 23 14:30	5° ♁ 50'14	2.38685 AU
	15124 May 31 01:51	0° ♁		morning rise	15129 Jan 11 01:47	19° ♁ 39'20	
					15129 Jan 25 04:25	0° ♁	
conjunction	15124 Jun 28 00:04	18° ♁ 59'20	-0°47'30		15129 Mar 08 17:03	0° ♁	
minimum elong	15124 Jun 28 01:41	19° ♁ 02'08	0°48'27	desc. node	15129 Apr 17 17:17	26° ♁ 32'06	
	15124 Jul 13 19:09	0° ♁			15129 Apr 23 03:26	0° ♁	
morning rise	15124 Aug 18 13:13	25° ♁ 40'17			15129 Jun 11 18:23	0° ♁	
	15124 Aug 24 10:37	0° ♁			15129 Aug 10 21:58	0° ♁	
asc. node	15124 Sep 14 21:37	15° ♁ 59'06		retrograde	15129 Sep 29 19:45	11° ♁ 36'24	
	15124 Oct 03 08:53	0° ♁		opposition	15129 Nov 08 15:50	2° ♁ 23'44	-4°52'55
	15124 Nov 11 03:15	0° ♁		greatest brilliancy	15129 Nov 09 04:47	2° ♁ 11'06	-1.3m
	15124 Dec 19 12:24	0° ♁		min. Earth dist.	15129 Nov 12 00:22	1° ♁ 05'11	0.66648 AU
	15125 Jan 27 12:41	0° ♁			15129 Nov 14 19:57	30° ♁	
	15125 Mar 09 12:29	0° ♁		direct	15129 Dec 20 06:42	22° ♁ 21'11	
	15125 Apr 23 22:01	0° ♁			15130 Jan 27 15:05	0° ♁	
	15125 Jun 24 07:27	0° ♁			15130 Mar 29 01:13	0° ♁	
desc. node	15125 Jul 14 00:02	4° ♁ 24'42		asc. node	15130 May 07 06:50	25° ♁ 08'23	
retrograde	15125 Jul 23 14:31	4° ♁ 59'59			15130 May 14 09:04	0° ♁	
	15125 Aug 19 22:29	30° ♁			15130 Jun 24 22:17	0° ♁	
min. Earth dist.	15125 Aug 28 16:47	26° ♁ 44'04	0.63525 AU		15130 Aug 03 00:28	0° ♁	
opposition	15125 Sep 02 01:42	25° ♁ 00'27	-2°00'53		15130 Sep 10 00:46	0° ♁	
greatest brilliancy	15125 Sep 01 16:52	25° ♁ 09'11	-1.5m		15130 Oct 18 01:49	0° ♁	
direct	15125 Oct 11 00:26	15° ♁ 58'03		evening set	15130 Nov 06 21:01	15° ♁ 21'31	
	15125 Dec 06 04:19	0° ♁			15130 Nov 26 01:57	0° ♁	
	15126 Feb 04 02:27	0° ♁			15131 Jan 05 18:04	0° ♁	
	15126 Mar 26 19:59	0° ♁					
	15126 May 12 09:48	0° ♁		conjunction	15131 Jan 09 17:28	2° ♁ 51'20	0°32'40
evening set	15126 Jun 23 09:57	28° ♁ 55'13		minimum elong	15131 Jan 09 19:28	2° ♁ 54'55	0°33'31
	15126 Jun 24 22:27	0° ♁		max. Earth dist.	15131 Feb 15 14:36	28° ♁ 41'19	2.52805 AU
max. Earth dist.	15126 Jul 06 21:15	8° ♁ 33'52	2.45054 AU		15131 Feb 17 12:36	0° ♁	

morning rise	15131 Mar 05 07:05	10° H 40'38	opposition	15136 Apr 22 10:09	13° M 16'20	6°59'02
desc. node	15131 Mar 05 05:38	10° H 38'11	greatest brilliancy	15136 Apr 21 22:29	13° M 24'05	-3.0m
	15131 Apr 03 13:56	0° Y	direct	15136 May 21 09:18	8° M 27'47	
	15131 May 21 01:13	0° B		15136 Jul 25 17:50	0° A	
	15131 Jul 10 15:45	0° II		15136 Sep 14 18:41	0° Z	
	15131 Sep 06 12:13	0° E	desc. node	15136 Oct 24 18:16	25° Z 05'02	
retrograde	15131 Nov 09 10:16	17° E 30'12		15136 Nov 01 13:04	0° \approx	
opposition	15131 Dec 16 18:46	9° E 19'52 -4°11'13		15136 Dec 19 02:28	0° H	
greatest brilliancy	15131 Dec 17 21:36	8° E 54'37 -1.7m		15137 Feb 04 22:26	0° Y	
min. Earth dist.	15131 Dec 23 20:41	6° E 40'15 0.58039 AU	evening set	15137 Mar 24 14:46	29° Y 54'35	
	15132 Jan 18 21:19	30° R II		15137 Mar 24 18:13	0° B	
direct	15132 Jan 26 04:01	29° II 38'20	max. Earth dist.	15137 Apr 28 08:21	21° B 53'35	2.67524 AU
	15132 Feb 02 13:18	0° E				
asc. node	15132 Mar 24 13:53	17° E 10'28	conjunction	15137 May 07 05:59	27° B 34'28	-1°12'40
	15132 Apr 16 09:41	0° Q	minimum elong	15137 May 07 05:50	27° B 34'12	1°13'24
	15132 May 31 09:11	0° M		15137 May 11 00:59	0° II	
	15132 Jul 10 16:26	0° A	morning rise	15137 Jun 19 19:59	25° II 45'30	
	15132 Aug 18 09:24	0° M		15137 Jun 26 07:04	0° E	
	15132 Sep 26 02:03	0° A		15137 Aug 10 04:54	0° Q	
	15132 Nov 04 19:52	0° Z		15137 Sep 22 15:14	0° M	
	15132 Dec 16 06:46	0° \approx		15137 Nov 03 15:42	0° A	
evening set	15133 Jan 05 01:26	13° \approx 49'47	asc. node	15137 Nov 15 02:24	8° A 19'21	
desc. node	15133 Jan 19 19:03	23° \approx 56'40		15137 Dec 14 15:20	0° M	
	15133 Jan 28 17:21	0° H		15138 Jan 24 14:15	0° A	
				15138 Mar 09 01:24	0° Z	
conjunction	15133 Feb 25 02:22	18° H 15'07 -0°21'18		15138 May 09 06:52	0° \approx	
minimum elong	15133 Feb 25 01:32	18° H 13'44 0°21'00	retrograde	15138 May 27 18:47	2° \approx 24'09	
max. Earth dist.	15133 Mar 15 03:37	0° Y 03'29 2.63139 AU		15138 Jun 14 21:12	30° R Z	
	15133 Mar 15 01:28	0° Y	min. Earth dist.	15138 Jun 24 21:43	26° Z 55'45	0.46838 AU
morning rise	15133 Apr 12 10:08	18° Y 14'34	greatest brilliancy	15138 Jul 02 06:40	24° Z 19'37	-2.3m
	15133 Apr 30 23:18	0° B	opposition	15138 Jul 03 08:03	23° Z 57'06	3°40'36
	15133 Jun 18 04:02	0° II	direct	15138 Aug 05 14:29	17° Z 05'39	
	15133 Aug 06 19:57	0° E	desc. node	15138 Sep 12 02:46	24° Z 35'50	
	15133 Sep 28 11:57	0° Q		15138 Sep 25 22:45	0° \approx	
	15133 Dec 04 13:11	0° M		15138 Nov 24 10:49	0° H	
retrograde	15134 Jan 02 23:34	4° M 43'50		15139 Jan 15 11:36	0° Y	
	15134 Jan 30 22:14	30° R Q		15139 Mar 06 02:52	0° B	
opposition	15134 Feb 04 20:18	28° Q 25'27 -0°19'20		15139 Apr 22 22:50	0° II	
greatest brilliancy	15134 Feb 04 23:32	28° Q 22'48 -2.5m	evening set	15139 Apr 28 18:46	3° II 44'14	
asc. node	15134 Feb 09 21:48	26° Q 45'17	max. Earth dist.	15139 May 22 00:39	18° II 50'08	2.61489 AU
min. Earth dist.	15134 Feb 13 06:59	25° Q 39'55 0.44293 AU		15139 Jun 07 21:28	0° E	
direct	15134 Mar 12 13:19	20° Q 44'34				
	15134 Apr 19 22:41	0° M	conjunction	15139 Jun 12 22:39	3° E 22'43	-1°00'40
	15134 Jun 10 20:07	0° A	minimum elong	15139 Jun 12 23:56	3° E 24'52	1°01'37
	15134 Jul 23 06:16	0° M		15139 Jul 21 20:19	0° Q	
	15134 Sep 02 05:44	0° A	morning rise	15139 Jul 30 22:32	6° Q 22'48	
	15134 Oct 13 20:00	0° Z		15139 Sep 01 20:41	0° M	
	15134 Nov 25 21:16	0° \approx	asc. node	15139 Oct 02 16:41	22° M 50'02	
desc. node	15134 Dec 07 15:17	7° \approx 59'30		15139 Oct 12 04:49	0° A	
	15135 Jan 09 14:28	0° H		15139 Nov 20 08:28	0° M	
evening set	15135 Feb 17 05:37	25° H 09'46		15139 Dec 29 01:54	0° A	
	15135 Feb 24 18:01	0° Y		15140 Feb 06 11:55	0° Z	
				15140 Mar 19 08:12	0° \approx	
conjunction	15135 Apr 03 13:50	24° Y 08'32 -0°58'12		15140 May 06 21:05	0° H	
minimum elong	15135 Apr 03 12:39	24° Y 06'39 0°58'29	retrograde	15140 Jul 09 07:03	20° H 18'54	
max. Earth dist.	15135 Apr 07 07:46	26° Y 31'14 2.68089 AU	desc. node	15140 Jul 30 12:19	17° H 09'30	
	15135 Apr 12 19:25	0° B	min. Earth dist.	15140 Aug 12 08:51	12° H 42'14	0.59786 AU
morning rise	15135 May 16 20:03	21° B 32'54	opposition	15140 Aug 18 04:06	10° H 25'59	-0°49'05
	15135 May 30 04:23	0° II	greatest brilliancy	15140 Aug 17 23:18	10° H 30'41	-1.7m
	15135 Jul 16 10:23	0° E	direct	15140 Sep 24 20:58	1° H 49'39	
	15135 Sep 01 08:51	0° Q		15140 Dec 20 00:27	0° Y	
	15135 Oct 18 02:32	0° M		15141 Feb 12 17:14	0° B	
	15135 Dec 04 09:28	0° A		15141 Apr 03 04:53	0° II	
asc. node	15135 Dec 29 04:24	15° A 04'58		15141 May 19 10:54	0° E	
	15136 Jan 24 21:09	0° M	evening set	15141 Jun 05 17:03	11° E 40'38	
retrograde	15136 Mar 23 15:22	18° M 18'15	max. Earth dist.	15141 Jun 20 04:37	21° E 41'16	2.50417 AU
min. Earth dist.	15136 Apr 20 12:21	13° M 46'44 0.36466 AU		15141 Jul 02 00:24	0° Q	

conjunction	15141 Jul 27 04:52	18° Ω 07'51	-0°15'34			15146 Nov 14 05:42	30° \mathbb{R} II	
minimum elong	15141 Jul 27 05:51	18° Ω 09'38	0°16'17	opposition	15146 Dec 01 00:50	24° Π 17'48	-4°41'38	
	15141 Aug 12 06:54	0° \mathbb{M}		greatest brilliancy	15146 Dec 01 23:50	23° Π 55'45	-1.5m	
asc. node	15141 Aug 19 05:23	5° \mathbb{M} 11'10		min. Earth dist.	15146 Dec 06 17:34	22° Π 06'45	0.62180 AU	
	15141 Sep 20 18:46	0° $\underline{\mathbf{a}}$		direct	15147 Jan 11 04:03	14° Π 21'08		
morning rise	15141 Sep 25 14:28	3° $\underline{\mathbf{a}}$ 43'54			15147 Mar 08 03:31	0° \mathfrak{S}		
	15141 Oct 29 03:57	0° \mathbb{M}		asc. node	15147 Apr 11 02:08	18° \mathfrak{S} 39'31		
	15141 Dec 06 05:45	0° \mathbb{X}			15147 Apr 29 00:02	0° Ω		
	15142 Jan 13 22:31	0° \mathfrak{Z}			15147 Jun 10 22:26	0° \mathbb{M}		
	15142 Feb 23 07:33	0° \approx			15147 Jul 20 12:48	0° $\underline{\mathbf{a}}$		
	15142 Apr 07 17:50	0° \mathbb{X}			15147 Aug 27 20:22	0° \mathbb{M}		
	15142 May 27 06:18	0° Υ			15147 Oct 05 04:46	0° \mathbb{X}		
desc. node	15142 Jun 17 16:08	10° Υ 50'19			15147 Nov 13 13:42	0° \mathfrak{Z}		
retrograde	15142 Aug 13 19:35	26° Υ 27'18		evening set	15147 Dec 16 10:09	24° \mathfrak{Z} 06'27		
min. Earth dist.	15142 Sep 21 14:03	17° Υ 20'28	0.67326 AU		15147 Dec 24 15:32	0° \approx		
opposition	15142 Sep 23 15:34	16° Υ 31'24	-3°25'52		15148 Feb 05 18:06	0° \mathbb{X}		
greatest brilliancy	15142 Sep 23 08:06	16° Υ 38'48	-1.3m	desc. node	15148 Feb 06 13:04	0° \mathbb{X} 32'12		
direct	15142 Nov 03 00:24	6° Υ 59'42						
	15143 Jan 17 19:32	0° \mathfrak{B}		conjunction	15148 Feb 09 09:46	2° \mathbb{X} 28'38	-0°01'46	
	15143 Mar 13 12:51	0° Π		minimum elong	15148 Feb 09 09:41	2° \mathbb{X} 28'29	0°01'14	
	15143 Apr 30 04:30	0° \mathfrak{S}		behind sun begin	15148 Feb 08 12:23	1° \mathbb{X} 52'26		
	15143 Jun 12 22:17	0° Ω		behind sun end	15148 Feb 10 06:59	3° \mathbb{X} 04'30		
asc. node	15143 Jul 06 21:51	17° Ω 21'17		max. Earth dist.	15148 Mar 05 00:44	18° \mathbb{X} 56'23	2.59714 AU	
	15143 Jul 23 21:34	0° \mathbb{M}			15148 Mar 21 21:42	0° Υ		
evening set	15143 Jul 26 14:28	2° \mathbb{M} 02'18		morning rise	15148 Mar 29 02:56	4° Υ 40'57		
max. Earth dist.	15143 Aug 27 09:08	26° \mathbb{M} 25'38	2.36995 AU		15148 May 07 21:48	0° \mathfrak{B}		
	15143 Aug 31 23:04	0° $\underline{\mathbf{a}}$			15148 Jun 25 17:56	0° Π		
					15148 Aug 16 06:42	0° \mathfrak{S}		
conjunction	15143 Oct 01 05:26	23° $\underline{\mathbf{a}}$ 51'04	0°53'45		15148 Oct 14 14:32	0° Ω		
minimum elong	15143 Oct 01 01:29	23° $\underline{\mathbf{a}}$ 43'14	0°54'01	retrograde	15148 Dec 09 14:38	14° Ω 16'46		
	15143 Oct 08 23:27	0° \mathbb{M}		opposition	15149 Jan 13 10:53	7° Ω 06'46	-2°24'42	
	15143 Nov 15 20:03	0° \mathbb{X}		greatest brilliancy	15149 Jan 14 08:01	6° Ω 48'02	-2.1m	
morning rise	15143 Dec 15 02:40	22° \mathbb{X} 50'30		min. Earth dist.	15149 Jan 22 00:27	4° Ω 05'03	0.49973 AU	
	15143 Dec 24 10:25	0° \mathfrak{Z}			15149 Feb 05 05:50	30° \mathbb{R} \mathfrak{S}		
	15144 Feb 02 14:49	0° \approx		direct	15149 Feb 20 14:07	28° \mathfrak{S} 19'35		
	15144 Mar 16 04:03	0° \mathbb{X}		asc. node	15149 Feb 26 11:12	28° \mathfrak{S} 34'11		
	15144 May 01 01:04	0° Υ			15149 Mar 08 07:43	0° Ω		
desc. node	15144 May 04 10:33	2° Υ 06'44			15149 May 11 17:30	0° \mathbb{M}		
	15144 Jun 21 14:17	0° \mathfrak{B}			15149 Jun 24 02:52	0° $\underline{\mathbf{a}}$		
retrograde	15144 Sep 15 22:14	29° \mathfrak{B} 02'01			15149 Aug 03 04:57	0° \mathbb{M}		
opposition	15144 Oct 26 07:07	19° \mathfrak{B} 33'00	-4°42'48		15149 Sep 11 20:59	0° \mathbb{X}		
greatest brilliancy	15144 Oct 26 13:11	19° \mathfrak{B} 27'02	-1.2m		15149 Oct 22 11:32	0° \mathfrak{Z}		
min. Earth dist.	15144 Oct 28 02:58	18° \mathfrak{B} 49'55	0.68181 AU		15149 Dec 03 17:36	0° \approx		
direct	15144 Dec 06 20:25	9° \mathfrak{B} 33'58		desc. node	15149 Dec 24 05:06	14° \approx 05'12		
	15145 Feb 13 14:37	0° Π			15150 Jan 16 19:57	0° \mathbb{X}		
	15145 Apr 07 14:38	0° \mathfrak{S}		evening set	15150 Feb 01 16:44	10° \mathbb{X} 30'46		
	15145 May 22 16:00	0° Ω			15150 Mar 03 13:56	0° Υ		
asc. node	15145 May 23 20:03	0° Ω 49'12						
	15145 Jul 02 21:01	0° \mathbb{M}		conjunction	15150 Mar 20 16:08	10° Υ 59'48	-0°46'27	
	15145 Aug 10 20:51	0° $\underline{\mathbf{a}}$		minimum elong	15150 Mar 20 14:51	10° Υ 57'45	0°46'32	
	15145 Sep 17 19:42	0° \mathbb{M}		max. Earth dist.	15150 Mar 29 17:58	16° Υ 48'02	2.66815 AU	
evening set	15145 Oct 07 15:05	15° \mathbb{M} 42'44			15150 Apr 19 12:03	0° \mathfrak{B}		
	15145 Oct 25 18:06	0° \mathbb{X}		morning rise	15150 May 03 16:12	8° \mathfrak{B} 58'00		
	15145 Dec 03 13:53	0° \mathfrak{Z}			15150 Jun 06 02:01	0° Π		
					15150 Jul 24 00:32	0° \mathfrak{S}		
conjunction	15145 Dec 16 20:32	10° \mathfrak{Z} 00'04	0°53'12		15150 Sep 10 09:41	0° Ω		
minimum elong	15145 Dec 16 23:29	10° \mathfrak{Z} 05'36	0°54'08		15150 Oct 30 02:28	0° \mathbb{M}		
	15146 Jan 13 00:49	0° \approx			15150 Dec 24 09:22	0° $\underline{\mathbf{a}}$		
max. Earth dist.	15146 Jan 31 16:53	13° \approx 21'05	2.47473 AU	asc. node	15151 Jan 14 17:54	8° $\underline{\mathbf{a}}$ 59'37		
morning rise	15146 Feb 15 00:49	23° \approx 23'00		retrograde	15151 Feb 19 06:36	16° $\underline{\mathbf{a}}$ 05'08		
	15146 Feb 24 15:08	0° \mathbb{X}		opposition	15151 Mar 21 00:23	11° $\underline{\mathbf{a}}$ 06'10	4°36'22	
desc. node	15146 Mar 22 00:30	17° \mathbb{X} 06'50		greatest brilliancy	15151 Mar 21 13:45	10° $\underline{\mathbf{a}}$ 56'58	-3.0m	
	15146 Apr 10 16:57	0° Υ		min. Earth dist.	15151 Mar 25 00:00	10° $\underline{\mathbf{a}}$ 00'23	0.37407 AU	
	15146 May 28 16:39	0° \mathfrak{B}		direct	15151 Apr 20 21:32	5° $\underline{\mathbf{a}}$ 38'50		
	15146 Jul 20 06:46	0° Π			15151 Jun 27 15:35	0° \mathbb{M}		
	15146 Sep 30 02:08	0° \mathfrak{S}			15151 Aug 14 01:16	0° \mathbb{X}		
retrograde	15146 Oct 23 12:02	2° \mathfrak{S} 56'51			15151 Sep 27 20:09	0° \mathfrak{Z}		

desc. node	15151 Nov 11 05:49	29° Z 32'21			15156 Aug 19 14:12	0° M		
	15151 Nov 11 22:36	0° \approx		morning rise	15156 Aug 31 02:40	8° M 34'11		
	15151 Dec 28 00:54	0° H		asc. node	15156 Sep 05 01:04	12° M 16'12		
	15152 Feb 13 01:07	0° Y			15156 Sep 28 09:00	0° L		
evening set	15152 Mar 10 21:11	16° Y 58'50			15156 Nov 06 00:10	0° M		
	15152 Mar 31 11:34	0° B			15156 Dec 14 06:20	0° Z		
max. Earth dist.	15152 Apr 19 16:14	12° B 09'08	2.68402 AU		15157 Jan 22 02:40	0° Z		
					15157 Mar 03 18:29	0° \approx		
conjunction	15152 Apr 23 19:29	14° B 46'30	-1°09'58		15157 Apr 17 03:09	0° H		
minimum elong	15152 Apr 23 18:50	14° B 45'27	1°10'33		15157 Jun 10 05:35	0° Y		
	15152 May 17 17:36	0° II		desc. node	15157 Jul 04 05:38	9° Y 03'37		
morning rise	15152 Jun 05 20:59	12° II 15'53		retrograde	15157 Jul 31 10:43	13° Y 20'14		
	15152 Jul 03 06:52	0° E		min. Earth dist.	15157 Sep 06 12:43	4° Y 45'04	0.65149 AU	
	15152 Aug 17 19:23	0° Ω		opposition	15157 Sep 10 02:13	3° Y 20'22	-2°36'08	
	15152 Oct 01 04:00	0° M		greatest brilliancy	15157 Sep 09 16:53	3° Y 29'38	-1.4m	
	15152 Nov 13 10:14	0° L			15157 Sep 18 19:37	30° R H		
asc. node	15152 Dec 01 18:49	12° L 53'47		direct	15157 Oct 19 14:20	24° H 06'18		
	15152 Dec 26 02:26	0° M			15157 Nov 22 19:15	0° Y		
	15153 Feb 07 22:43	0° Z			15158 Jan 28 18:07	0° B		
	15153 Apr 02 19:51	0° Z			15158 Mar 21 15:01	0° II		
retrograde	15153 May 06 00:35	7° Z 18'12			15158 May 07 13:24	0° E		
min. Earth dist.	15153 Jun 01 07:08	2° Z 39'28	0.41510 AU		15158 Jun 20 03:58	0° Ω		
greatest brilliancy	15153 Jun 07 14:33	0° Z 38'22	-2.6m	evening set	15158 Jul 04 12:22	10° Ω 18'03		
opposition	15153 Jun 09 02:02	0° Z 09'50	5°47'39	max. Earth dist.	15158 Jul 19 12:17	21° Ω 16'57	2.41954 AU	
	15153 Jun 09 14:20	30° R Z		asc. node	15158 Jul 23 15:29	24° Ω 20'44		
direct	15153 Jul 10 02:42	24° Z 16'48			15158 Jul 31 05:16	0° M		
	15153 Aug 10 19:13	0° Z						
desc. node	15153 Sep 28 14:22	21° Z 52'08		conjunction	15158 Sep 02 03:26	25° M 07'23	0°27'45	
	15153 Oct 13 15:10	0° \approx		minimum elong	15158 Sep 02 01:05	25° M 02'49	0°27'32	
	15153 Dec 04 14:32	0° H			15158 Sep 08 10:06	0° L		
	15154 Jan 23 10:23	0° Y			15158 Oct 16 13:14	0° M		
evening set	15154 Mar 13 04:07	0° B		morning rise	15158 Nov 13 02:37	21° M 49'53		
	15154 Apr 14 22:43	20° B 35'17			15158 Nov 23 11:05	0° Z		
	15154 Apr 29 17:01	0° II			15159 Jan 01 01:07	0° Z		
max. Earth dist.	15154 May 12 13:03	8° II 15'33	2.64489 AU		15159 Feb 10 05:11	0° \approx		
					15159 Mar 24 22:00	0° H		
conjunction	15154 May 29 02:06	19° II 01'35	-1°08'52		15159 May 10 13:33	0° Y		
minimum elong	15154 May 29 02:51	19° II 02'49	1°09'46	desc. node	15159 May 22 04:24	6° Y 54'57		
	15154 Jun 14 17:25	0° E			15159 Jul 04 19:48	0° B		
morning rise	15154 Jul 13 17:12	19° E 30'33		retrograde	15159 Sep 03 12:28	16° B 39'11		
	15154 Jul 28 23:45	0° Ω		opposition	15159 Oct 14 05:22	6° B 56'58	-4°21'33	
	15154 Sep 09 11:13	0° M		greatest brilliancy	15159 Oct 14 05:04	6° B 57'16	-1.2m	
asc. node	15154 Oct 19 12:44	29° M 24'39		min. Earth dist.	15159 Oct 14 12:13	6° B 50'13	0.68676 AU	
	15154 Oct 20 07:41	0° L			15159 Nov 03 00:46	30° R Y		
	15154 Nov 28 23:31	0° M		direct	15159 Nov 24 11:37	27° Y 05'42		
	15155 Jan 07 05:20	0° Z			15159 Dec 17 15:38	0° B		
	15155 Feb 16 08:50	0° Z			15160 Feb 26 04:49	0° II		
	15155 Apr 01 00:29	0° \approx			15160 Apr 16 04:23	0° E		
	15155 May 31 00:19	0° H			15160 May 30 12:44	0° Ω		
retrograde	15155 Jun 24 20:00	3° H 57'34		asc. node	15160 Jun 09 12:34	7° Ω 07'22		
	15155 Jul 18 10:08	30° R \approx			15160 Jul 10 13:50	0° M		
min. Earth dist.	15155 Jul 26 16:32	27° \approx 06'05	0.55209 AU		15160 Aug 18 13:12	0° L		
opposition	15155 Aug 02 19:13	24° \approx 22'40	0°40'19	evening set	15160 Sep 06 06:17	14° L 44'31		
greatest brilliancy	15155 Aug 02 15:03	24° \approx 26'40	-1.9m		15160 Sep 25 11:39	0° M		
desc. node	15155 Aug 16 23:26	19° \approx 29'48			15160 Nov 02 08:20	0° Z		
direct	15155 Sep 08 00:15	16° \approx 19'29						
	15155 Nov 01 11:10	0° H		conjunction	15160 Nov 18 15:22	12° Z 45'06	1°06'11	
	15155 Dec 31 15:47	0° Y		minimum elong	15160 Nov 18 16:45	12° Z 47'49	1°07'05	
	15156 Feb 21 15:41	0° B			15160 Dec 11 00:46	0° Z		
	15156 Apr 10 07:32	0° II		max. Earth dist.	15161 Jan 10 20:39	23° Z 05'15	2.41760 AU	
evening set	15156 May 20 17:07	26° II 13'09			15161 Jan 20 07:42	0° \approx		
	15156 May 26 09:12	0° E		morning rise	15161 Jan 24 20:28	3° \approx 16'55		
max. Earth dist.	15156 Jun 07 01:56	7° E 52'53	2.55298 AU		15161 Mar 03 19:33	0° H		
				desc. node	15161 Apr 07 18:47	23° H 22'40		
conjunction	15156 Jul 07 22:23	29° E 12'20	-0°37'25		15161 Apr 18 00:44	0° Y		
minimum elong	15156 Jul 07 23:59	29° E 15'10	0°38'17		15161 Jun 05 20:28	0° B		
	15156 Jul 09 01:27	0° Ω			15161 Jul 31 23:29	0° II		



































































































































retrograde	15161 Oct 08 02:49	19° Π 29'03		evening set	15167 Feb 25 15:35	3° Υ 35'17	
opposition	15161 Nov 16 13:13	10° Π 27'08	-4°53'00		15167 Apr 08 04:34	0° \mathcal{B}	
greatest brilliancy	15161 Nov 17 06:01	10° Π 10'49	-1.4m				
min. Earth dist.	15161 Nov 20 17:51	8° Π 49'24	0.65354 AU	conjunction	15167 Apr 11 08:26	2° \mathcal{B} 00'11	-1°03'34
direct	15161 Dec 28 01:37	0° Π 24'50		minimum elong	15167 Apr 11 07:23	1° \mathcal{B} 58'32	1°03'59
	15162 Mar 21 23:50	0° \mathcal{E}		max. Earth dist.	15167 Apr 12 05:56	2° \mathcal{B} 34'15	2.68427 AU
asc. node	15162 Apr 27 15:18	22° \mathcal{E} 35'55		morning rise	15167 May 24 09:50	29° \mathcal{B} 18'41	
	15162 May 08 16:18	0° \mathcal{Q}			15167 May 25 11:50	0° Π	
	15162 Jun 19 15:29	0° \mathcal{M}			15167 Jul 11 10:55	0° \mathcal{E}	
	15162 Jul 28 21:24	0° \mathcal{L}			15167 Aug 26 19:23	0° \mathcal{Q}	
	15162 Sep 04 23:47	0° \mathcal{M}			15167 Oct 11 12:25	0° \mathcal{M}	
	15162 Oct 13 02:42	0° \mathcal{X}			15167 Nov 25 20:53	0° \mathcal{L}	
	15162 Nov 21 04:46	0° \mathcal{Z}		asc. node	15167 Dec 19 11:19	15° \mathcal{L} 28'19	
evening set	15162 Nov 22 05:29	0° \mathcal{Z} 46'31			15168 Jan 11 05:57	0° \mathcal{M}	
	15162 Dec 31 22:58	0° \approx			15168 Mar 07 05:09	0° \mathcal{X}	
				retrograde	15168 Apr 09 18:17	7° \mathcal{X} 08'43	
conjunction	15163 Jan 21 14:28	14° \approx 39'07	0°19'55	min. Earth dist.	15168 May 06 00:38	2° \mathcal{X} 51'18	0.37506 AU
minimum elong	15163 Jan 21 15:39	14° \approx 41'11	0°20'39	opposition	15168 May 10 17:53	1° \mathcal{X} 32'03	7°10'03
	15163 Feb 12 18:56	0° \mathcal{X}		greatest brilliancy	15168 May 09 15:34	1° \mathcal{X} 50'34	-2.9m
max. Earth dist.	15163 Feb 22 21:39	6° \mathcal{X} 52'01	2.55453 AU		15168 May 16 08:02	30° \mathcal{R} \mathcal{M}	
desc. node	15163 Feb 23 06:57	7° \mathcal{X} 07'43		direct	15168 Jun 09 02:18	26° \mathcal{M} 31'54	
morning rise	15163 Mar 14 17:47	20° \mathcal{X} 07'03			15168 Jul 02 16:35	0° \mathcal{X}	
	15163 Mar 29 19:34	0° Υ			15168 Sep 05 11:20	0° \mathcal{Z}	
	15163 May 16 00:48	0° \mathcal{B}		desc. node	15168 Oct 15 00:38	23° \mathcal{Z} 23'54	
	15163 Jul 04 19:43	0° Π			15168 Oct 25 20:41	0° \approx	
	15163 Aug 28 11:28	0° \mathcal{E}			15168 Dec 13 13:25	0° \mathcal{X}	
retrograde	15163 Nov 19 23:00	26° \mathcal{E} 55'43			15169 Jan 30 23:18	0° Υ	
opposition	15163 Dec 26 11:49	19° \mathcal{E} 04'27	-3°41'58		15169 Mar 20 01:44	0° \mathcal{B}	
greatest brilliancy	15163 Dec 27 14:44	18° \mathcal{E} 39'30	-1.8m	evening set	15169 Apr 01 08:26	7° \mathcal{B} 43'10	
min. Earth dist.	15164 Jan 03 05:11	16° \mathcal{E} 13'00	0.55353 AU	max. Earth dist.	15169 May 03 10:09	28° \mathcal{B} 04'21	2.66664 AU
direct	15164 Feb 04 05:31	9° \mathcal{E} 37'01			15169 May 06 10:23	0° Π	
asc. node	15164 Mar 14 22:27	18° \mathcal{E} 44'25					
	15164 Apr 07 04:03	0° \mathcal{Q}		conjunction	15169 May 15 00:54	5° Π 31'36	-1°12'31
	15164 May 24 16:01	0° \mathcal{M}		minimum elong	15169 May 15 01:04	5° Π 31'53	1°13'20
	15164 Jul 04 16:50	0° \mathcal{L}			15169 Jun 21 14:14	0° \mathcal{E}	
	15164 Aug 12 18:23	0° \mathcal{M}		morning rise	15169 Jun 28 04:05	4° \mathcal{E} 21'09	
	15164 Sep 20 17:23	0° \mathcal{X}			15169 Aug 05 06:05	0° \mathcal{Q}	
	15164 Oct 30 16:45	0° \mathcal{Z}			15169 Sep 17 07:32	0° \mathcal{M}	
	15164 Dec 11 08:49	0° \approx			15169 Oct 28 20:34	0° \mathcal{L}	
desc. node	15165 Jan 09 22:45	20° \approx 29'28		asc. node	15169 Nov 05 06:45	5° \mathcal{L} 27'44	
evening set	15165 Jan 15 14:04	24° \approx 19'35			15169 Dec 08 06:27	0° \mathcal{M}	
	15165 Jan 23 23:32	0° \mathcal{X}			15170 Jan 17 09:49	0° \mathcal{X}	
					15170 Feb 28 02:05	0° \mathcal{Z}	
conjunction	15165 Mar 05 22:36	27° \mathcal{X} 05'44	-0°31'26		15170 Apr 17 20:17	0° \approx	
minimum elong	15165 Mar 05 21:30	27° \mathcal{X} 03'56	0°31'17	retrograde	15170 Jun 07 14:32	15° \approx 02'56	
	15165 Mar 10 09:52	0° Υ		min. Earth dist.	15170 Jul 07 01:15	9° \approx 03'27	0.49930 AU
max. Earth dist.	15165 Mar 20 15:07	6° Υ 36'41	2.64667 AU	greatest brilliancy	15170 Jul 14 11:04	6° \approx 20'29	-2.2m
morning rise	15165 Apr 20 06:27	26° Υ 11'52		opposition	15170 Jul 15 04:08	6° \approx 04'46	2°30'01
	15165 Apr 26 06:31	0° \mathcal{B}			15170 Aug 04 19:25	30° \mathcal{R} \mathcal{Z}	
	15165 Jun 13 04:31	0° Π		direct	15170 Aug 18 14:26	28° \mathcal{Z} 44'34	
	15165 Aug 01 02:18	0° \mathcal{E}		desc. node	15170 Sep 02 10:46	0° \approx 04'31	
	15165 Sep 20 17:50	0° \mathcal{Q}			15170 Sep 02 00:08	0° \approx	
	15165 Nov 15 22:15	0° \mathcal{M}			15170 Nov 16 19:52	0° \mathcal{X}	
retrograde	15166 Jan 18 15:55	18° \mathcal{M} 28'21			15171 Jan 09 19:41	0° Υ	
asc. node	15166 Jan 31 07:19	17° \mathcal{M} 27'50			15171 Mar 01 03:48	0° \mathcal{B}	
opposition	15166 Feb 19 07:14	12° \mathcal{M} 41'41	1°17'23		15171 Apr 18 06:21	0° Π	
greatest brilliancy	15166 Feb 19 15:51	12° \mathcal{M} 35'02	-2.7m	evening set	15171 May 06 20:13	11° Π 56'59	
min. Earth dist.	15166 Feb 26 23:32	10° \mathcal{M} 20'14	0.41368 AU	max. Earth dist.	15171 May 27 21:37	25° Π 46'02	2.59501 AU
direct	15166 Mar 25 08:10	5° \mathcal{M} 48'08			15171 Jun 03 06:17	0° \mathcal{E}	
	15166 May 30 20:55	0° \mathcal{L}					
	15166 Jul 15 08:04	0° \mathcal{M}		conjunction	15171 Jun 21 20:39	12° \mathcal{E} 32'44	-0°53'45
	15166 Aug 26 13:35	0° \mathcal{X}		minimum elong	15171 Jun 21 22:10	12° \mathcal{E} 35'19	0°54'41
	15166 Oct 07 22:23	0° \mathcal{Z}			15171 Jul 17 03:01	0° \mathcal{Q}	
	15166 Nov 20 12:47	0° \approx		morning rise	15171 Aug 10 15:46	17° \mathcal{Q} 25'12	
desc. node	15166 Nov 27 19:43	4° \approx 54'54			15171 Aug 27 23:24	0° \mathcal{M}	
	15167 Jan 04 15:22	0° \mathcal{X}		asc. node	15171 Sep 22 22:05	19° \mathcal{M} 16'09	
	15167 Feb 20 00:55	0° Υ			15171 Oct 07 02:31	0° \mathcal{L}	

	15171 Nov 15 01:03	0°♌		greatest brilliancy	15176 Nov 03 06:59	27°♏11'36	-1.3m
	15171 Dec 23 13:25	0°♏		min. Earth dist.	15176 Nov 05 13:03	26°♏18'39	0.67467 AU
	15172 Jan 31 16:26	0°♐		direct	15176 Dec 14 11:36	17°♏19'37	
	15172 Mar 12 21:46	0°♑			15177 Feb 03 22:23	0°♐	
	15172 Apr 28 03:53	0°♒			15177 Apr 01 12:36	0°♑	
retrograde	15172 Jul 17 13:56	29°♒21'53		asc. node	15177 May 14 04:25	27°♑49'16	
desc. node	15172 Jul 20 18:11	29°♒17'45			15177 May 17 07:57	0°♒	
min. Earth dist.	15172 Aug 21 19:06	21°♒22'42	0.61981 AU		15177 Jun 27 18:45	0°♓	
opposition	15172 Aug 26 19:33	19°♒24'01	-1°33'01		15177 Aug 05 20:25	0°♑	
greatest brilliancy	15172 Aug 26 11:42	19°♒31'45	-1.6m	greatest brilliancy	15177 Aug 18 20:06	10°♑12'19	1.1m
direct	15172 Oct 04 05:17	10°♒32'34			15177 Sep 12 20:04	0°♒	
	15172 Dec 11 14:27	0°♓			15177 Oct 20 19:31	0°♏	
	15173 Feb 06 23:45	0°♐		evening set	15177 Oct 24 23:57	3°♏16'25	
	15173 Mar 29 05:02	0°♐			15177 Nov 28 16:46	0°♐	
	15173 May 14 16:53	0°♑					
evening set	15173 Jun 15 10:56	21°♑40'09		conjunction	15177 Dec 30 19:32	23°♐53'43	0°41'55
	15173 Jun 27 07:13	0°♒		minimum elong	15177 Dec 30 22:06	23°♐58'23	0°42'48
max. Earth dist.	15173 Jun 29 00:38	1°♒13'28	2.47508 AU		15178 Jan 08 05:15	0°♑	
	15173 Aug 07 12:28	0°♓		max. Earth dist.	15178 Feb 09 17:49	23°♑01'46	2.50495 AU
					15178 Feb 19 20:29	0°♒	
conjunction	15173 Aug 08 08:36	0°♓37'33	-0°00'47	morning rise	15178 Feb 25 16:21	3°♒58'47	
minimum elong	15173 Aug 08 08:39	0°♓37'39	0°01'21	desc. node	15178 Mar 12 02:47	13°♒42'49	
behind sun begin	15173 Aug 07 08:09	29°♒51'57			15178 Apr 05 20:13	0°♓	
behind sun end	15173 Aug 09 09:09	1°♓23'25			15178 May 23 10:35	0°♐	
asc. node	15173 Aug 09 11:07	1°♓27'05			15178 Jul 13 16:32	0°♐	
	15173 Sep 15 22:10	0°♑			15178 Sep 12 20:09	0°♑	
morning rise	15173 Oct 11 22:19	20°♑19'04		retrograde	15178 Nov 01 21:54	11°♑34'57	
	15173 Oct 24 05:06	0°♌		opposition	15178 Dec 09 19:28	3°♑10'53	-4°26'26
greatest brilliancy	15173 Nov 03 08:52	8°♌01'27	1.2m	greatest brilliancy	15178 Dec 10 20:54	2°♑46'42	-1.6m
	15173 Dec 01 05:01	0°♏		min. Earth dist.	15178 Dec 16 06:22	0°♑43'43	0.60013 AU
	15174 Jan 08 19:44	0°♐			15178 Dec 18 05:27	30°♒♐	
	15174 Feb 18 01:02	0°♑		direct	15179 Jan 19 13:28	23°♐21'04	
	15174 Apr 02 01:33	0°♒			15179 Feb 22 16:54	0°♑	
	15174 May 20 02:00	0°♓		asc. node	15179 Apr 01 11:11	17°♑44'19	
desc. node	15174 Jun 07 19:05	10°♓17'31			15179 Apr 22 00:20	0°♒	
	15174 Jul 24 15:49	0°♐			15179 Jun 05 00:47	0°♓	
retrograde	15174 Aug 21 09:03	4°♐14'16			15179 Jul 15 00:34	0°♑	
	15174 Sep 15 23:53	30°♒♓			15179 Aug 22 12:55	0°♌	
min. Earth dist.	15174 Sep 29 23:19	24°♓51'31	0.68100 AU		15179 Sep 30 01:07	0°♏	
opposition	15174 Oct 01 04:59	24°♓22'08	-3°49'52		15179 Nov 08 13:41	0°♐	
greatest brilliancy	15174 Sep 30 23:32	24°♓27'31	-1.3m		15179 Dec 19 19:00	0°♑	
direct	15174 Nov 10 22:42	14°♓42'25		evening set	15179 Dec 28 10:48	6°♑07'22	
	15175 Jan 08 22:09	0°♐		desc. node	15180 Jan 27 15:15	27°♑00'59	
	15175 Mar 07 17:20	0°♐			15180 Feb 01 00:37	0°♒	
	15175 Apr 25 02:07	0°♑					
	15175 Jun 08 00:57	0°♒		conjunction	15180 Feb 19 02:18	12°♒08'35	-0°13'25
asc. node	15175 Jun 27 03:47	13°♒45'43		minimum elong	15180 Feb 19 01:43	12°♒07'38	0°13'02
	15175 Jul 19 01:17	0°♓		behind sun begin	15180 Feb 18 13:42	11°♒47'37	
evening set	15175 Aug 09 18:06	16°♓31'58		behind sun end	15180 Feb 19 13:44	12°♒27'38	
	15175 Aug 27 02:19	0°♑		max. Earth dist.	15180 Mar 10 22:48	25°♒54'26	2.61707 AU
	15175 Oct 04 02:04	0°♌			15180 Mar 17 05:22	0°♓	
				morning rise	15180 Apr 06 09:06	13°♓00'54	
conjunction	15175 Oct 18 23:40	11°♌50'08	1°03'29		15180 May 03 03:00	0°♐	
minimum elong	15175 Oct 18 20:53	11°♌44'35	1°04'02		15180 Jun 20 13:03	0°♐	
	15175 Nov 10 22:31	0°♏			15180 Aug 09 20:57	0°♑	
max. Earth dist.	15175 Nov 24 20:51	10°♏55'48	2.36624 AU		15180 Oct 03 14:14	0°♒	
	15175 Dec 19 12:59	0°♐		retrograde	15180 Dec 22 19:08	25°♒53'13	
morning rise	15175 Dec 31 10:04	9°♐01'13		opposition	15181 Jan 25 14:25	19°♒10'28	-1°19'31
	15176 Jan 28 17:05	0°♑		greatest brilliancy	15181 Jan 26 02:54	18°♒59'48	-2.3m
	15176 Mar 11 04:06	0°♒		min. Earth dist.	15181 Feb 03 06:35	16°♒13'38	0.46821 AU
desc. node	15176 Apr 24 13:33	29°♒17'51		asc. node	15181 Feb 16 18:54	12°♒29'57	
	15176 Apr 25 16:10	0°♓		direct	15181 Mar 03 11:41	10°♒56'41	
	15176 Jun 14 20:34	0°♐			15181 Apr 30 19:15	0°♓	
	15176 Aug 18 08:09	0°♐			15181 Jun 16 11:32	0°♑	
retrograde	15176 Sep 23 18:59	6°♐41'44			15181 Jul 27 15:37	0°♌	
	15176 Oct 26 23:23	30°♒♐			15181 Sep 05 22:31	0°♏	
opposition	15176 Nov 02 21:07	27°♐21'17	-4°50'13		15181 Oct 17 00:11	0°♐	

	15181 Nov 28 14:56	0°♊		asc. node	15186 Oct 09 17:08	25°♏59'11	
desc. node	15181 Dec 14 10:07	10°♊48'54			15186 Oct 15 01:28	0°♏	
	15182 Jan 12 00:02	0°♏			15186 Nov 23 10:34	0°♏	
evening set	15182 Feb 10 16:14	19°♏28'59			15187 Jan 01 08:53	0°♏	
	15182 Feb 26 22:09	0°♏			15187 Feb 10 00:25	0°♏	
					15187 Mar 24 09:02	0°♏	
conjunction	15182 Mar 28 16:03	19°♏03'11 -0°53'45			15187 May 14 08:55	0°♏	
minimum elong	15182 Mar 28 14:47	19°♏01'11 0°53'58		retrograde	15187 Jul 03 19:18	13°♏59'46	
max. Earth dist.	15182 Apr 03 19:35	22°♏57'56 2.67623 AU		min. Earth dist.	15187 Aug 05 21:53	6°♏42'24 0.57828 AU	
	15182 Apr 14 21:22	0°♏		desc. node	15187 Aug 07 05:42	6°♏11'48	
morning rise	15182 May 11 04:34	16°♏38'44		opposition	15187 Aug 12 07:33	4°♏13'06 -0°13'52	
	15182 Jun 01 08:12	0°♏		greatest brilliancy	15187 Aug 12 06:07	4°♏14'30 -1.8m	
	15182 Jul 18 20:54	0°♏			15187 Aug 24 00:14	30°♏	
	15182 Sep 04 09:09	0°♏		direct	15187 Sep 18 08:33	25°♏50'45	
	15182 Oct 22 04:58	0°♏			15187 Oct 16 05:10	0°♏	
	15182 Dec 10 19:56	0°♏			15187 Dec 24 20:29	0°♏	
asc. node	15183 Jan 05 02:08	13°♏55'34			15188 Feb 16 07:31	0°♏	
	15183 Feb 11 15:26	0°♏			15188 Apr 05 11:27	0°♏	
retrograde	15183 Mar 10 02:58	4°♏17'55			15188 May 21 16:47	0°♏	
	15183 Apr 06 11:50	30°♏		evening set	15188 May 29 14:49	5°♏19'00	
opposition	15183 Apr 08 13:58	29°♏26'54 6°14'03		max. Earth dist.	15188 Jun 14 06:18	15°♏59'01 2.52678 AU	
greatest brilliancy	15183 Apr 08 15:53	29°♏25'38 -3.0m			15188 Jul 04 08:43	0°♏	
min. Earth dist.	15183 Apr 09 08:49	29°♏14'26 0.36429 AU					
direct	15183 May 08 00:47	24°♏30'43		conjunction	15188 Jul 18 11:50	10°♏03'54 -0°25'34	
	15183 Jun 06 12:45	0°♏		minimum elong	15188 Jul 18 13:11	10°♏06'21 0°26'20	
	15183 Aug 04 04:39	0°♏			15188 Aug 14 19:01	0°♏	
	15183 Sep 20 14:46	0°♏		asc. node	15188 Aug 26 06:00	8°♏32'59	
desc. node	15183 Nov 01 12:04	27°♏06'39		morning rise	15188 Sep 13 20:55	22°♏39'25	
	15183 Nov 05 23:28	0°♏			15188 Sep 23 10:40	0°♏	
	15183 Dec 22 19:12	0°♏			15188 Oct 31 22:41	0°♏	
	15184 Feb 08 05:17	0°♏			15188 Dec 09 02:10	0°♏	
evening set	15184 Mar 18 17:59	24°♏53'18			15189 Jan 16 19:37	0°♏	
	15184 Mar 26 20:31	0°♏			15189 Feb 26 05:35	0°♏	
max. Earth dist.	15184 Apr 24 15:31	18°♏13'12 2.68027 AU			15189 Apr 10 21:36	0°♏	
					15189 May 31 15:42	0°♏	
conjunction	15184 May 01 10:50	22°♏32'51 -1°12'02		desc. node	15189 Jun 24 10:57	11°♏05'34	
minimum elong	15184 May 01 10:28	22°♏32'16 1°12'44		retrograde	15189 Aug 08 03:20	21°♏25'18	
	15184 May 13 03:11	0°♏		min. Earth dist.	15189 Sep 15 03:50	12°♏32'15 0.66476 AU	
morning rise	15184 Jun 13 17:32	20°♏21'05		opposition	15189 Sep 17 21:36	11°♏27'00 -3°06'58	
	15184 Jun 28 12:49	0°♏		greatest brilliancy	15189 Sep 17 12:52	11°♏35'40 -1.3m	
	15184 Aug 12 17:36	0°♏		direct	15189 Oct 27 21:39	2°♏02'49	
	15184 Sep 25 13:55	0°♏			15190 Jan 21 18:36	0°♏	
	15184 Nov 07 02:48	0°♏			15190 Mar 16 05:35	0°♏	
asc. node	15184 Nov 22 01:55	10°♏44'10			15190 May 02 15:10	0°♏	
	15184 Dec 18 17:42	0°♏			15190 Jun 15 09:02	0°♏	
	15185 Jan 29 14:53	0°♏		asc. node	15190 Jul 13 21:51	20°♏40'23	
	15185 Mar 16 09:15	0°♏		evening set	15190 Jul 16 12:05	22°♏35'33	
retrograde	15185 May 18 19:51	22°♏32'44			15190 Jul 26 10:27	0°♏	
min. Earth dist.	15185 Jun 14 22:40	17°♏28'27 0.44370 AU		max. Earth dist.	15190 Aug 05 19:45	7°♏50'30 2.39035 AU	
greatest brilliancy	15185 Jun 22 01:03	15°♏04'01 -2.5m			15190 Sep 03 14:13	0°♏	
opposition	15185 Jun 23 08:00	14°♏37'37 4°36'25					
direct	15185 Jul 25 15:03	8°♏11'35		conjunction	15190 Sep 17 22:12	11°♏13'51 0°43'26	
desc. node	15185 Sep 18 20:11	22°♏59'01		minimum elong	15190 Sep 17 18:34	11°♏06'41 0°43'28	
	15185 Oct 03 18:16	0°♏			15190 Oct 11 15:58	0°♏	
	15185 Nov 28 03:25	0°♏			15190 Nov 18 12:47	0°♏	
	15186 Jan 18 02:42	0°♏		morning rise	15190 Dec 01 08:56	10°♏05'02	
	15186 Mar 08 08:19	0°♏			15190 Dec 27 02:09	0°♏	
evening set	15186 Apr 22 18:55	28°♏32'20			15191 Feb 05 04:51	0°♏	
	15186 Apr 25 01:47	0°♏			15191 Mar 19 17:35	0°♏	
max. Earth dist.	15186 May 17 23:56	14°♏47'50 2.62935 AU			15191 May 04 18:50	0°♏	
				desc. node	15191 May 12 07:00	4°♏36'11	
conjunction	15186 Jun 06 09:53	27°♏33'40 -1°04'44			15191 Jun 26 09:28	0°♏	
minimum elong	15186 Jun 06 10:58	27°♏35'27 1°05'40		retrograde	15191 Sep 11 03:59	24°♏14'54	
	15186 Jun 10 02:01	0°♏		opposition	15191 Oct 21 16:31	14°♏39'33 -4°35'27	
morning rise	15186 Jul 23 05:17	29°♏18'39		greatest brilliancy	15191 Oct 21 19:39	14°♏36'28 -1.2m	
	15186 Jul 24 05:06	0°♏		min. Earth dist.	15191 Oct 22 19:37	14°♏12'51 0.68531 AU	
	15186 Sep 04 11:15	0°♏		direct	15191 Dec 02 02:46	4°♏43'37	

	15192 Feb 18 22:42	0°♄			15197 Mar 05 17:36	0°♄
	15192 Apr 10 14:12	0°♅				
	15192 May 25 09:37	0°♆		conjunction	15197 Mar 14 10:53	5°♄38'07 -0°40'36
asc. node	15192 May 30 18:40	3°♆47'52		minimum elong	15197 Mar 14 09:38	5°♄36'06 0°40'36
	15192 Jul 05 14:13	0°♇		max. Earth dist.	15197 Mar 25 22:25	13°♄00'52 2.65969 AU
	15192 Aug 13 14:43	0°♈			15197 Apr 21 14:20	0°♄
	15192 Sep 20 13:34	0°♉		morning rise	15197 Apr 27 23:00	4°♄01'37
evening set	15192 Sep 23 17:08	2°♉30'05			15197 Jun 08 07:07	0°♄
	15192 Oct 28 10:53	0°♊			15197 Jul 26 14:37	0°♅
					15197 Sep 13 20:11	0°♆
conjunction	15192 Dec 05 00:23	29°♊06'46 1°00'14			15197 Nov 04 14:24	0°♇
minimum elong	15192 Dec 05 03:09	29°♊12'02 1°01'11			15198 Jan 10 06:53	0°♈
	15192 Dec 06 04:21	0°♉		asc. node	15198 Jan 21 15:50	2°♈33'02
	15193 Jan 15 12:03	0°♊		retrograde	15198 Feb 04 21:54	3°♈47'01
max. Earth dist.	15193 Jan 23 19:26	5°♊59'54 2.44929 AU			15198 Mar 01 23:27	30°♈♇
morning rise	15193 Feb 06 05:16	15°♊32'42		opposition	15198 Mar 07 07:55	28°♇29'47 3°08'50
	15193 Feb 26 23:40	0°♋		greatest brilliancy	15198 Mar 07 23:04	28°♇18'50 -2.9m
desc. node	15193 Mar 28 21:28	20°♋07'23		min. Earth dist.	15198 Mar 13 07:58	26°♇45'50 0.38899 AU
	15193 Apr 13 00:49	0°♌		direct	15198 Apr 08 14:54	22°♇25'43
	15193 May 31 06:09	0°♍			15198 May 12 20:36	0°♈
	15193 Jul 23 22:25	0°♎			15198 Jul 05 20:19	0°♉
retrograde	15193 Oct 16 17:37	27°♎34'02			15198 Aug 19 05:21	0°♊
opposition	15193 Nov 24 16:17	18°♎44'08 -4°48'18			15198 Oct 01 16:44	0°♋
greatest brilliancy	15193 Nov 25 12:40	18°♎24'26 -1.4m			15198 Nov 15 00:02	0°♌
min. Earth dist.	15193 Nov 29 16:42	16°♎47'50 0.63720 AU		desc. node	15198 Nov 18 00:10	2°♌00'18
direct	15194 Jan 04 23:58	8°♎43'56			15198 Dec 30 14:00	0°♍
	15194 Mar 13 19:13	0°♏			15199 Feb 15 06:31	0°♎
asc. node	15194 Apr 17 23:18	20°♏28'50		evening set	15199 Mar 05 20:19	11°♎48'20
	15194 May 02 14:41	0°♐			15199 Apr 03 13:34	0°♏
	15194 Jun 14 03:15	0°♑		max. Earth dist.	15199 Apr 17 04:23	8°♏37'26 2.68522 AU
	15194 Jul 23 14:24	0°♒				
	15194 Aug 30 19:33	0°♓		conjunction	15199 Apr 19 01:20	9°♏48'37 -1°07'47
	15194 Oct 08 00:59	0°♊		minimum elong	15199 Apr 19 00:30	9°♏47'18 1°08'20
	15194 Nov 16 05:58	0°♋			15199 May 20 20:10	0°♎
evening set	15194 Dec 06 08:49	14°♋56'30		morning rise	15199 Jun 01 01:08	7°♎09'10
	15194 Dec 27 03:02	0°♌			15199 Jul 06 13:51	0°♏
					15199 Aug 21 11:14	0°♆
conjunction	15195 Feb 01 13:18	25°♌33'06 0°07'16			15199 Oct 05 09:16	0°♇
minimum elong	15195 Feb 01 13:43	25°♌33'49 0°07'54			15199 Nov 18 10:53	0°♈
behind sun begin	15195 Jan 31 18:11	25°♌00'16		asc. node	15199 Dec 09 17:47	14°♈35'28
behind sun end	15195 Feb 02 09:15	26°♌07'19			15200 Jan 01 08:34	0°♉
	15195 Feb 08 01:20	0°♋			15200 Feb 16 21:28	0°♊
desc. node	15195 Feb 13 10:08	3°♋38'58		retrograde	15200 Apr 25 03:19	25°♊07'49
max. Earth dist.	15195 Mar 01 11:48	14°♋27'11 2.57905 AU		min. Earth dist.	15200 May 21 01:24	20°♊44'36 0.39455 AU
morning rise	15195 Mar 23 15:15	29°♋03'15		greatest brilliancy	15200 May 26 09:41	19°♊07'50 -2.8m
	15195 Mar 25 02:04	0°♌		opposition	15200 May 27 20:17	18°♊41'34 6°34'52
	15195 May 11 02:58	0°♍		direct	15200 Jun 26 23:40	13°♊14'44
	15195 Jun 29 06:44	0°♎			15200 Aug 24 02:29	0°♋
	15195 Aug 20 20:42	0°♏		desc. node	15200 Oct 05 07:55	22°♋25'53
	15195 Oct 25 02:49	0°♐			15200 Oct 18 11:16	0°♌
retrograde	15195 Dec 01 05:06	6°♐56'31			15200 Dec 07 18:14	0°♍
	15196 Jan 04 07:25	30°♐♅			15201 Jan 25 21:30	0°♎
opposition	15196 Jan 05 20:32	29°♏26'34 -3°02'12			15201 Mar 15 08:16	0°♏
greatest brilliancy	15196 Jan 06 21:10	29°♏04'12 -2.0m		evening set	15201 Apr 09 02:29	15°♏33'04
min. Earth dist.	15196 Jan 14 02:42	26°♏27'13 0.52456 AU			15201 May 01 19:44	0°♎
direct	15196 Feb 13 18:32	20°♏18'30		max. Earth dist.	15201 May 08 15:35	4°♎22'52 2.65571 AU
asc. node	15196 Mar 05 08:30	23°♏03'15				
	15196 Mar 25 07:31	0°♐		conjunction	15201 May 22 23:28	13°♎38'29 -1°10'57
	15196 May 17 03:31	0°♑		minimum elong	15201 May 22 23:59	13°♎39'20 1°11'51
	15196 Jun 28 07:40	0°♒			15201 Jun 16 22:19	0°♏
	15196 Aug 06 21:08	0°♓		morning rise	15201 Jul 06 20:10	13°♏17'15
	15196 Sep 15 03:59	0°♊			15201 Jul 31 09:45	0°♆
	15196 Oct 25 10:15	0°♋			15201 Sep 12 03:58	0°♇
	15196 Dec 06 08:22	0°♌			15201 Oct 23 08:08	0°♈
desc. node	15196 Dec 31 01:14	17°♌04'03		asc. node	15201 Oct 26 12:45	2°♈22'09
	15197 Jan 19 04:13	0°♍			15201 Dec 02 07:29	0°♉
evening set	15197 Jan 25 12:38	4°♍14'47			15202 Jan 10 21:16	0°♊

	15202 Feb 20 12:23	0°♄				15207 Mar 01 13:38	0°♄		
	15202 Apr 06 12:13	0°♌				15207 Apr 19 21:07	0°♌		
retrograde	15202 Jun 17 15:34	26°♌36'56				15207 Jun 03 02:51	0°♌		
min. Earth dist.	15202 Jul 18 10:54	20°♌07'28	0.52911 AU	asc. node		15207 Jun 17 11:15	10°♌16'02		
opposition	15202 Jul 26 01:10	17°♌15'30	1°24'26			15207 Jul 14 04:40	0°♌		
greatest brilliancy	15202 Jul 25 15:55	17°♌24'15	-2.0m			15207 Aug 22 05:30	0°♌		
desc. node	15202 Aug 23 17:19	9°♌48'10		evening set		15207 Aug 25 06:29	2°♌22'55		
direct	15202 Aug 30 11:28	9°♌30'12				15207 Sep 29 04:35	0°♌		
	15202 Nov 07 19:57	0°♌							
	15203 Jan 03 19:58	0°♌		conjunction		15207 Nov 06 00:34	29°♌59'47	1°07'23	
	15203 Feb 24 01:56	0°♌		minimum elong		15207 Nov 06 00:11	29°♌59'03	1°08'09	
	15203 Apr 13 12:38	0°♄				15207 Nov 06 00:40	0°♌		
evening set	15203 May 15 04:39	20°♄27'15				15207 Dec 14 15:23	0°♄		
	15203 May 29 14:29	0°♌				15207 Dec 29 04:05	11°♄00'47	2.39251 AU	
max. Earth dist.	15203 Jun 03 05:28	3°♌05'43	2.57269 AU	morning rise		15208 Jan 15 08:38	23°♄48'12		
						15208 Jan 23 19:42	0°♌		
conjunction	15203 Jul 01 07:40	22°♌15'31	-0°45'01			15208 Mar 06 05:25	0°♌		
minimum elong	15203 Jul 01 09:17	22°♌18'21	0°45'54	desc. node		15208 Apr 14 15:47	26°♌15'59		
	15203 Jul 12 09:58	0°♌				15208 Apr 20 11:15	0°♌		
morning rise	15203 Aug 22 08:00	29°♌24'57				15208 Jun 08 16:33	0°♌		
	15203 Aug 23 03:04	0°♌				15208 Aug 06 01:01	0°♄		
asc. node	15203 Sep 13 02:06	15°♌35'23		retrograde		15208 Oct 01 21:00	14°♄27'03		
	15203 Oct 02 02:25	0°♌		opposition		15208 Nov 10 14:33	5°♄16'20	-4°53'21	
	15203 Nov 09 21:08	0°♌		greatest brilliancy		15208 Nov 11 04:17	5°♄02'56	-1.3m	
	15203 Dec 18 05:42	0°♌		min. Earth dist.		15208 Nov 14 02:31	3°♄54'23	0.66436 AU	
	15204 Jan 26 03:56	0°♄				15208 Nov 24 18:15	30°♌♄		
	15204 Mar 06 22:57	0°♌		direct		15208 Dec 22 04:09	25°♌13'42		
	15204 Apr 20 20:13	0°♌				15209 Jan 20 18:30	0°♄		
	15204 Jun 17 16:24	0°♌				15209 Mar 25 22:19	0°♌		
desc. node	15204 Jul 10 23:42	6°♌38'04		asc. node		15209 May 04 13:01	25°♌03'41		
retrograde	15204 Jul 25 14:01	7°♌57'41				15209 May 11 19:23	0°♌		
	15204 Aug 29 21:56	30°♌♌				15209 Jun 22 14:03	0°♌		
min. Earth dist.	15204 Aug 30 20:10	29°♌38'12	0.63848 AU			15209 Jul 31 18:48	0°♌		
opposition	15204 Sep 04 01:42	27°♌57'42	-2°11'50			15209 Sep 07 19:56	0°♌		
greatest brilliancy	15204 Sep 03 16:22	28°♌06'57	-1.5m			15209 Oct 15 20:38	0°♌		
direct	15204 Oct 13 02:38	18°♌53'14		evening set		15209 Nov 10 08:40	19°♌45'33		
	15204 Dec 01 02:27	0°♌				15209 Nov 23 19:30	0°♄		
	15205 Jan 31 22:39	0°♌				15210 Jan 03 09:41	0°♌		
	15205 Mar 24 02:44	0°♄							
	15205 May 09 21:43	0°♌		conjunction		15210 Jan 12 13:29	6°♌34'16	0°29'24	
	15205 Jun 22 13:32	0°♌		minimum elong		15210 Jan 12 15:17	6°♌37'28	0°30'11	
evening set	15205 Jun 25 22:12	2°♌23'23				15210 Feb 15 01:55	0°♌		
max. Earth dist.	15205 Jul 09 15:24	12°♌15'06	2.44436 AU	max. Earth dist.		15210 Feb 17 17:19	1°♌48'23	2.53316 AU	
asc. node	15205 Jul 30 15:31	27°♌41'51		desc. node		15210 Mar 02 03:44	10°♌14'09		
	15205 Aug 02 17:34	0°♌		morning rise		15210 Mar 07 14:55	13°♌54'13		
						15210 Apr 01 00:29	0°♌		
conjunction	15205 Aug 21 19:11	14°♌24'11	0°15'22			15210 May 18 07:48	0°♌		
minimum elong	15205 Aug 21 17:59	14°♌21'53	0°15'00			15210 Jul 07 14:06	0°♄		
behind sun begin	15205 Aug 21 07:57	14°♌02'45				15210 Sep 02 04:11	0°♌		
behind sun end	15205 Aug 22 04:01	14°♌41'01		retrograde		15210 Nov 11 21:22	20°♌37'17		
	15205 Sep 11 01:21	0°♌		opposition		15210 Dec 19 01:22	12°♌30'16	-4°03'46	
	15205 Oct 19 06:28	0°♌		greatest brilliancy		15210 Dec 20 04:06	12°♌05'09	-1.7m	
morning rise	15205 Oct 29 16:55	8°♌15'38		min. Earth dist.		15210 Dec 26 05:20	9°♌48'56	0.57547 AU	
	15205 Nov 26 05:00	0°♌		direct		15211 Jan 28 06:37	2°♌51'04		
	15206 Jan 03 18:40	0°♄		asc. node		15211 Mar 22 19:41	17°♌59'45		
	15206 Feb 12 21:51	0°♌				15211 Apr 13 23:08	0°♌		
	15206 Mar 27 15:32	0°♌				15211 May 29 16:45	0°♌		
	15206 May 13 15:54	0°♌				15211 Jul 09 05:58	0°♌		
desc. node	15206 May 28 23:58	8°♌53'55				15211 Aug 17 01:11	0°♌		
	15206 Jul 10 09:16	0°♌				15211 Sep 24 18:21	0°♌		
retrograde	15206 Aug 28 21:19	11°♌51'46				15211 Nov 03 11:40	0°♄		
opposition	15206 Oct 08 15:45	2°♌04'40	-4°09'54			15211 Dec 14 21:24	0°♌		
min. Earth dist.	15206 Oct 08 05:56	2°♌14'23	0.68549 AU	evening set		15212 Jan 08 14:00	17°♌14'38		
greatest brilliancy	15206 Oct 08 12:56	2°♌07'27	-1.2m	desc. node		15212 Jan 17 18:33	23°♌32'53		
	15206 Oct 13 22:53	30°♌♌				15212 Jan 27 06:29	0°♌		
direct	15206 Nov 18 16:49	22°♌18'15							
	15206 Dec 28 06:02	0°♌		conjunction		15212 Feb 28 06:46	21°♌19'51	-0°24'16	

minimum elong	15212 Feb 28 05:49	21°  18'18	0°24'01	retrograde	15217 May 30 09:51	6°  14'16	
	15212 Mar 12 12:58	0°  0		min. Earth dist.	15217 Jun 27 18:25	0°  39'07	0.47441 AU
max. Earth dist.	15212 Mar 16 14:30	2°  38'25	2.63439 AU		15217 Jun 29 15:11	30°  01'24	-2.3m
morning rise	15212 Apr 14 09:19	21°  07'57		greatest brilliancy	15217 Jul 05 03:37	28°  01'24	3°23'02
	15212 Apr 28 08:59	0°  8		opposition	15217 Jul 06 02:54	27°  34'03	
	15212 Jun 15 11:02	0°  II		direct	15217 Aug 08 15:21	20°  34'06	
	15212 Aug 03 21:27	0°  ☾		desc. node	15217 Sep 09 04:06	26°  31'40	
	15212 Sep 24 22:22	0°  ♊			15217 Sep 20 00:47	0°  ☾	
	15212 Nov 26 09:25	0°  ♋			15217 Nov 21 02:18	0°  ☾	
retrograde	15213 Jan 06 05:56	8°  ♌33'32			15218 Jan 12 14:46	0°  ☾	
opposition	15213 Feb 07 21:46	2°  ♌21'11	0°02'48		15218 Mar 03 11:02	0°  ☾	
asc. node	15213 Feb 07 04:24	2°  ♌35'14			15218 Apr 20 10:09	0°  II	
greatest brilliancy	15214 Apr 30 08:12	12°  ♌43'51	1.6m	evening set	15218 Apr 30 17:04	6°  II35'34	
	15213 Feb 15 04:15	30°  ♌00'00		max. Earth dist.	15218 May 23 15:33	21°  II31'01	2.61137 AU
min. Earth dist.	15213 Feb 16 07:37	29°  ♌38'29	0.43718 AU		15218 Jun 05 11:07	0°  ☾	
direct	15213 Mar 15 08:04	24°  ♌48'56					
	15213 Apr 12 07:58	0°  ♌		conjunction	15218 Jun 15 00:35	6°  ☾23'57	-0°59'01
	15213 Jun 07 09:52	0°  ♌		minimum elong	15218 Jun 15 01:57	6°  ☾26'15	0°59'58
	15213 Jul 20 10:10	0°  ♌			15218 Jul 19 11:43	0°  ♌	
	15213 Aug 30 14:29	0°  ♌		morning rise	15218 Aug 02 08:16	9°  ♌44'10	
	15213 Oct 11 06:37	0°  ☾			15218 Aug 30 13:10	0°  ♌	
	15213 Nov 23 08:26	0°  ☾		asc. node	15218 Sep 29 22:23	22°  ♌29'04	
desc. node	15213 Dec 04 14:42	7°  ☾39'33			15218 Oct 09 21:44	0°  ♌	
	15214 Jan 07 01:39	0°  ☾			15218 Nov 18 01:03	0°  ♌	
evening set	15214 Feb 19 07:53	28°  ☾08'54			15218 Dec 26 17:09	0°  ☾	
	15214 Feb 22 04:59	0°  ☾			15219 Feb 04 00:05	0°  ☾	
					15219 Mar 17 13:09	0°  ☾	
conjunction	15214 Apr 05 12:54	27°  ☾00'27	-0°59'57		15219 May 04 01:38	0°  ☾	
minimum elong	15214 Apr 05 11:45	26°  ☾58'37	1°00'17	retrograde	15219 Jul 12 08:26	23°  ☾26'01	
max. Earth dist.	15214 Apr 08 19:08	29°  ☾04'33	2.68169 AU	desc. node	15219 Jul 28 12:09	21°  ☾35'25	
	15214 Apr 10 06:06	0°  ☾		min. Earth dist.	15219 Aug 15 15:38	15°  ☾44'50	0.60244 AU
morning rise	15214 May 18 17:39	24°  ☾22'47		opposition	15219 Aug 21 07:27	13°  ☾31'35	-1°02'06
	15214 May 27 14:32	0°  ☾		greatest brilliancy	15219 Aug 21 01:31	13°  ☾37'25	-1.7m
	15214 Jul 13 19:23	0°  ☾		direct	15219 Sep 28 03:14	4°  ☾52'22	
	15214 Aug 29 15:27	0°  ☾			15219 Dec 17 06:19	0°  ☾	
	15214 Oct 15 04:08	0°  ☾			15220 Feb 10 18:53	0°  ☾	
	15214 Nov 30 23:42	0°  ☾			15220 Mar 31 13:48	0°  ☾	
asc. node	15214 Dec 26 09:45	15°  ☾46'51			15220 May 17 00:02	0°  ☾	
	15215 Jan 19 19:27	0°  ☾		evening set	15220 Jun 07 22:08	14°  ☾50'06	
retrograde	15215 Mar 28 10:58	23°  ☾12'58		max. Earth dist.	15220 Jun 22 05:50	24°  ☾45'54	2.49896 AU
min. Earth dist.	15215 Apr 24 23:10	18°  ☾44'54	0.36586 AU		15220 Jun 29 16:30	0°  ☾	
opposition	15215 Apr 27 09:05	18°  ☾06'11	7°07'12				
greatest brilliancy	15215 Apr 26 18:45	18°  ☾15'47	-3.0m	conjunction	15220 Jul 29 20:13	21°  ☾43'29	-0°12'01
direct	15215 May 26 09:39	13°  ☾16'59		minimum elong	15220 Jul 29 21:00	21°  ☾44'55	0°12'40
	15215 Jul 21 14:16	0°  ☾		behind sun begin	15220 Jul 29 06:07	21°  ☾17'38	
	15215 Sep 12 09:56	0°  ☾		behind sun end	15220 Jul 30 11:53	22°  ☾12'13	
desc. node	15215 Oct 22 18:08	25°  ☾03'08			15220 Aug 10 01:03	0°  ☾	
	15215 Oct 30 15:16	0°  ☾		asc. node	15220 Aug 16 11:50	4°  ☾48'45	
	15215 Dec 17 09:02	0°  ☾			15220 Sep 18 14:07	0°  ☾	
	15216 Feb 03 07:11	0°  ☾		morning rise	15220 Sep 29 00:19	8°  ☾04'52	
	15216 Mar 22 04:26	0°  ☾			15220 Oct 26 23:34	0°  ☾	
evening set	15216 Mar 26 12:43	2°  ☾44'04			15220 Dec 04 00:38	0°  ☾	
max. Earth dist.	15216 Apr 29 15:31	24°  ☾20'12	2.67373 AU		15221 Jan 11 15:32	0°  ☾	
	15216 May 08 12:22	0°  ☾			15221 Feb 20 21:07	0°  ☾	
					15221 Apr 05 00:52	0°  ☾	
conjunction	15216 May 09 04:05	0°  ☾25'09	-1°12'51		15221 May 23 19:39	0°  ☾	
minimum elong	15216 May 09 04:01	0°  ☾25'03	1°13'38	desc. node	15221 Jun 14 14:13	11°  ☾23'08	
morning rise	15216 Jun 21 20:25	28°  ☾43'06		retrograde	15221 Aug 15 17:52	29°  ☾18'49	
	15216 Jun 23 19:14	0°  ☾		min. Earth dist.	15221 Sep 23 15:11	20°  ☾09'08	0.67510 AU
	15216 Aug 07 17:20	0°  ☾		opposition	15221 Sep 25 13:26	19°  ☾23'14	-3°33'43
	15216 Sep 20 03:20	0°  ☾		greatest brilliancy	15221 Sep 25 06:10	19°  ☾30'27	-1.3m
	15216 Nov 01 02:47	0°  ☾		direct	15221 Nov 04 23:55	9°  ☾50'04	
asc. node	15216 Nov 12 06:21	8°  ☾07'10			15222 Jan 13 20:46	0°  ☾	
	15216 Dec 12 00:13	0°  ☾			15222 Mar 10 15:11	0°  ☾	
	15217 Jan 21 18:06	0°  ☾			15222 Apr 27 15:06	0°  ☾	
	15217 Mar 05 14:26	0°  ☾			15222 Jun 10 13:18	0°  ☾	
	15217 Apr 29 14:52	0°  ☾		asc. node	15222 Jul 04 03:30	17°  ☾00'59	

	15222 Jul 21 15:14	0°♍		behind sun begin	15227 Feb 10 21:13	5°♏07'59	
evening set	15222 Jul 29 14:48	6°♍01'15		behind sun end	15227 Feb 12 14:24	6°♏17'23	
	15222 Aug 29 18:18	0°♌		max. Earth dist.	15227 Mar 07 16:25	21°♏40'41	2.60102 AU
max. Earth dist.	15222 Sep 06 14:40	6°♌08'31	2.36632 AU		15227 Mar 20 09:08	0°♍	
				morning rise	15227 Apr 01 03:46	7°♍38'23	
conjunction	15222 Oct 04 23:37	28°♌33'22	0°56'34		15227 May 06 06:46	0°♏	
minimum elong	15222 Oct 04 19:48	28°♌25'47	0°56'53		15227 Jun 23 22:38	0°♐	
	15222 Oct 06 19:17	0°♍			15227 Aug 14 01:22	0°♑	
	15222 Nov 13 15:34	0°♎			15227 Oct 10 15:29	0°♒	
morning rise	15222 Dec 18 18:14	27°♎21'56		retrograde	15227 Dec 13 11:26	17°♒47'57	
	15222 Dec 22 04:41	0°♏		opposition	15228 Jan 17 03:47	10°♒42'41	-2°08'58
	15223 Jan 31 06:49	0°♐		greatest brilliancy	15228 Jan 17 22:52	10°♒25'53	-2.2m
	15223 Mar 14 16:27	0°♑		min. Earth dist.	15228 Jan 25 18:34	7°♒41'25	0.49378 AU
	15223 Apr 29 07:11	0°♒		direct	15228 Feb 24 01:02	2°♒01'35	
desc. node	15223 May 02 09:54	1°♒57'10		asc. node	15228 Feb 24 16:21	2°♒01'46	
	15223 Jun 19 04:34	0°♓			15228 May 08 03:33	0°♍	
	15223 Aug 31 16:23	0°♐			15228 Jun 21 07:44	0°♌	
retrograde	15223 Sep 18 21:41	1°♐50'56			15228 Jul 31 15:56	0°♍	
	15223 Oct 05 23:48	30°♑♏			15228 Sep 09 10:13	0°♎	
opposition	15223 Oct 29 04:39	22°♑23'18	-4°45'31		15228 Oct 20 01:16	0°♏	
greatest brilliancy	15223 Oct 29 11:25	22°♑16'38	-1.2m		15228 Dec 01 06:53	0°♐	
min. Earth dist.	15223 Oct 31 03:38	21°♑37'06	0.68078 AU	desc. node	15228 Dec 21 05:45	13°♐44'18	
direct	15223 Dec 09 17:39	12°♑23'44			15229 Jan 14 08:23	0°♑	
	15224 Feb 10 13:16	0°♐		evening set	15229 Feb 03 20:38	13°♑34'43	
	15224 Apr 04 18:22	0°♑			15229 Mar 01 01:28	0°♒	
	15224 May 20 04:30	0°♒					
asc. node	15224 May 21 02:24	0°♒38'12		conjunction	15229 Mar 22 15:07	13°♒52'20	-0°48'42
	15224 Jun 30 13:37	0°♍		minimum elong	15229 Mar 22 13:50	13°♒50'16	0°48'49
	15224 Aug 08 15:25	0°♌		max. Earth dist.	15229 Mar 31 02:30	19°♒17'12	2.66985 AU
	15224 Sep 15 14:52	0°♍			15229 Apr 16 22:45	0°♏	
evening set	15224 Oct 11 10:39	20°♍28'22		morning rise	15229 May 05 12:32	11°♏45'19	
greatest brilliancy	15224 Oct 20 04:51	27°♍22'41	1.1m		15229 Jun 03 11:36	0°♐	
	15224 Oct 23 12:53	0°♎			15229 Jul 21 07:54	0°♑	
	15224 Dec 01 07:32	0°♏			15229 Sep 07 12:04	0°♒	
					15229 Oct 26 16:34	0°♍	
conjunction	15224 Dec 20 01:40	14°♏06'38	0°50'37		15229 Dec 19 01:02	0°♌	
minimum elong	15224 Dec 20 04:38	14°♏12'08	0°51'32	asc. node	15230 Jan 11 23:41	11°♌04'34	
	15225 Jan 10 16:41	0°♐		retrograde	15230 Feb 23 06:59	20°♌51'41	
max. Earth dist.	15225 Feb 03 04:20	16°♐46'46	2.48065 AU	opposition	15230 Mar 24 23:45	15°♌55'49	5°02'16
morning rise	15225 Feb 17 13:53	26°♐49'14		greatest brilliancy	15230 Mar 25 11:38	15°♌47'43	-3.0m
	15225 Feb 22 04:39	0°♑		min. Earth dist.	15230 Mar 28 08:13	15°♌01'04	0.37130 AU
desc. node	15225 Mar 19 00:03	16°♑46'24		direct	15230 Apr 24 11:49	10°♌36'16	
	15225 Apr 08 03:13	0°♒			15230 Jun 22 17:38	0°♍	
	15225 May 25 21:24	0°♓			15230 Aug 10 16:44	0°♎	
	15225 Jul 16 21:41	0°♐			15230 Sep 24 22:25	0°♏	
	15225 Sep 21 11:21	0°♑		desc. node	15230 Nov 08 06:36	29°♏22'31	
retrograde	15225 Oct 25 18:05	5°♑55'44			15230 Nov 09 05:26	0°♐	
	15225 Nov 25 21:56	30°♑♐			15230 Dec 25 09:49	0°♑	
opposition	15225 Dec 03 03:11	27°♐19'19	-4°37'45		15231 Feb 10 11:05	0°♒	
greatest brilliancy	15225 Dec 04 02:34	26°♐56'53	-1.5m	evening set	15231 Mar 13 19:36	19°♒49'25	
min. Earth dist.	15225 Dec 08 22:23	25°♐05'52	0.61800 AU		15231 Mar 29 22:15	0°♓	
direct	15226 Jan 13 03:52	17°♐23'41		max. Earth dist.	15231 Apr 22 02:32	14°♓40'15	2.68354 AU
	15226 Mar 03 12:04	0°♑					
asc. node	15226 Apr 08 08:33	18°♑57'23		conjunction	15231 Apr 26 16:23	17°♓34'28	-1°10'46
	15226 Apr 26 02:24	0°♒		minimum elong	15231 Apr 26 15:48	17°♓33'32	1°11'24
	15226 Jun 08 10:46	0°♍			15231 May 16 04:52	0°♐	
	15226 Jul 18 05:09	0°♌		morning rise	15231 Jun 08 18:23	15°♐06'23	
	15226 Aug 25 14:10	0°♍			15231 Jul 01 18:30	0°♑	
	15226 Oct 02 22:32	0°♎			15231 Aug 16 06:51	0°♒	
	15226 Nov 11 06:29	0°♏			15231 Sep 29 14:24	0°♍	
evening set	15226 Dec 19 06:01	27°♏49'53			15231 Nov 11 18:06	0°♌	
	15226 Dec 22 06:45	0°♐		asc. node	15231 Nov 30 01:13	12°♌54'27	
desc. node	15227 Feb 03 12:00	0°♑07'39			15231 Dec 24 04:46	0°♍	
	15227 Feb 03 07:30	0°♑			15232 Feb 05 10:43	0°♎	
					15232 Mar 26 21:27	0°♏	
conjunction	15227 Feb 11 18:01	5°♑43'02	-0°05'03	retrograde	15232 May 09 02:12	11°♏41'58	
minimum elong	15227 Feb 11 17:49	5°♑42'42	0°04'33	min. Earth dist.	15232 Jun 04 09:15	6°♏59'46	0.42013 AU

greatest brilliancy	15232 Jun 10 22:43	4° Z 52'45	-2.6m	evening set	15237 Jul 07 03:23	13° Q 52'41	
opposition	15232 Jun 12 09:25	4° Z 24'33	5°32'12	asc. node	15237 Jul 20 21:45	23° Q 59'18	
	15232 Jun 28 07:10	30° R x		max. Earth dist.	15237 Jul 22 22:00	25° Q 28'47	2.41398 AU
direct	15232 Jul 13 16:12	28° x 25'22			15237 Jul 28 23:28	0° M	
	15232 Jul 29 15:54	0° Z					
desc. node	15232 Sep 25 13:52	22° Z 29'29		conjunction	15237 Sep 05 11:03	29° M 23'45	0°31'40
	15232 Oct 09 20:33	0° \approx		minimum elong	15237 Sep 05 08:21	29° M 18'30	0°31'31
	15232 Dec 01 13:39	0° H			15237 Sep 06 05:42	0° L	
	15233 Jan 20 15:58	0° Y			15237 Oct 14 09:13	0° M	
	15233 Mar 10 13:09	0° B		morning rise	15237 Nov 17 01:38	26° M 41'02	
evening set	15233 Apr 16 21:06	23° B 26'01			15237 Nov 21 06:30	0° x	
	15233 Apr 27 04:23	0° II			15237 Dec 29 19:04	0° Z	
max. Earth dist.	15233 May 13 23:38	10° II 48'35	2.64221 AU		15238 Feb 07 20:38	0° \approx	
					15238 Mar 22 09:15	0° H	
conjunction	15233 May 31 02:17	21° II 57'55	-1°07'56		15238 May 07 16:26	0° Y	
minimum elong	15233 May 31 03:07	21° II 59'18	1°08'51	desc. node	15238 May 19 03:05	6° Y 53'47	
	15233 Jun 12 06:32	0° G			15238 Jun 30 17:03	0° B	
morning rise	15233 Jul 15 22:02	22° G 39'43		retrograde	15238 Sep 05 11:23	19° B 27'32	
	15233 Jul 26 14:10	0° Q		opposition	15238 Oct 16 02:39	9° B 46'26	-4°26'19
	15233 Sep 07 02:31	0° M		greatest brilliancy	15238 Oct 16 02:57	9° B 46'08	-1.2m
asc. node	15233 Oct 16 17:44	29° M 04'41		min. Earth dist.	15238 Oct 16 12:47	9° B 36'25	0.68668 AU
	15233 Oct 17 23:22	0° L			15238 Nov 22 12:12	30° R Y	
	15233 Nov 26 14:53	0° M		direct	15238 Nov 26 09:12	29° Y 54'27	
	15234 Jan 04 19:03	0° x			15238 Nov 30 07:50	0° B	
	15234 Feb 13 18:04	0° Z			15239 Feb 22 19:54	0° II	
	15234 Mar 28 20:40	0° \approx			15239 Apr 14 11:15	0° G	
	15234 May 23 12:12	0° H			15239 May 29 02:11	0° Q	
retrograde	15234 Jun 27 00:36	7° H 16'10		asc. node	15239 Jun 07 17:21	6° Q 50'01	
min. Earth dist.	15234 Jul 29 03:11	0° H 19'29	0.55704 AU		15239 Jul 09 06:55	0° M	
	15234 Jul 29 23:44	30° R \approx			15239 Aug 17 08:20	0° L	
opposition	15234 Aug 05 02:32	27° \approx 38'31	0°25'06	evening set	15239 Sep 10 23:52	19° L 25'27	
greatest brilliancy	15234 Aug 04 23:57	27° \approx 41'00	-1.9m		15239 Sep 24 07:38	0° M	
desc. node	15234 Aug 13 23:16	24° \approx 24'13			15239 Nov 01 04:04	0° x	
direct	15234 Sep 10 10:31	19° \approx 31'48					
	15234 Oct 27 01:31	0° H		conjunction	15239 Nov 23 07:26	17° x 18'25	1°05'16
	15234 Dec 28 09:30	0° Y		minimum elong	15239 Nov 23 09:18	17° x 22'01	1°06'09
	15235 Feb 18 20:23	0° B			15239 Dec 09 19:19	0° Z	
	15235 Apr 08 17:29	0° II		max. Earth dist.	15240 Jan 15 03:18	27° Z 10'30	2.42343 AU
evening set	15235 May 23 19:20	29° II 14'41			15240 Jan 19 00:13	0° \approx	
	15235 May 24 22:31	0° G		morning rise	15240 Jan 28 17:27	7° \approx 01'53	
max. Earth dist.	15235 Jun 09 22:28	10° G 46'43	2.54818 AU		15240 Mar 01 09:12	0° H	
	15235 Jul 07 17:10	0° Q		desc. node	15240 Apr 04 18:16	23° H 04'29	
					15240 Apr 15 10:15	0° Y	
conjunction	15235 Jul 11 07:40	2° Q 32'26	-0°34'31		15240 Jun 02 22:15	0° B	
minimum elong	15235 Jul 11 09:14	2° Q 35'12	0°35'21		15240 Jul 27 23:47	0° II	
	15235 Aug 18 07:32	0° M		retrograde	15240 Oct 10 05:35	22° II 21'23	
asc. node	15235 Sep 03 06:43	11° M 53'25		opposition	15240 Nov 18 12:50	13° II 21'33	-4°52'07
morning rise	15235 Sep 04 01:38	12° M 28'56		greatest brilliancy	15240 Nov 19 06:18	13° II 04'34	-1.4m
	15235 Sep 27 03:14	0° L		min. Earth dist.	15240 Nov 22 20:36	11° II 40'44	0.65056 AU
	15235 Nov 04 18:36	0° M		direct	15240 Dec 29 23:35	3° II 19'31	
	15235 Dec 13 00:06	0° x			15241 Mar 18 13:27	0° G	
	15236 Jan 20 18:38	0° Z		asc. node	15241 Apr 24 20:29	22° G 36'20	
	15236 Mar 01 06:34	0° \approx			15241 May 05 23:54	0° Q	
	15236 Apr 14 06:12	0° H			15241 Jun 17 05:25	0° M	
	15236 Jun 05 19:27	0° Y			15241 Jul 26 14:11	0° L	
desc. node	15236 Jul 01 05:22	10° Y 26'33			15241 Sep 02 17:40	0° M	
retrograde	15236 Aug 02 09:18	16° Y 14'50			15241 Oct 10 20:33	0° x	
min. Earth dist.	15236 Sep 08 15:02	7° Y 36'34	0.65423 AU		15241 Nov 18 21:49	0° Z	
opposition	15236 Sep 12 01:19	6° Y 14'58	-2°45'52	evening set	15241 Nov 25 12:38	4° Z 58'21	
greatest brilliancy	15236 Sep 11 15:47	6° Y 24'25	-1.4m		15241 Dec 29 14:37	0° \approx	
	15236 Sep 29 21:06	30° R H					
direct	15236 Oct 21 15:50	26° H 59'11		conjunction	15242 Jan 24 05:15	18° \approx 09'08	0°16'35
	15236 Nov 14 09:55	0° Y		minimum elong	15242 Jan 24 06:14	18° \approx 10'50	0°17'16
	15237 Jan 25 09:29	0° B			15242 Feb 10 08:42	0° H	
	15237 Mar 18 20:32	0° II		desc. node	15242 Feb 20 07:01	6° H 45'26	
	15237 May 05 01:15	0° G		max. Earth dist.	15242 Feb 24 18:19	9° H 46'27	2.55946 AU
	15237 Jun 17 19:41	0° Q		morning rise	15242 Mar 16 21:37	23° H 11'22	

	15242 Mar 27 06:59	0°♄			15247 Sep 02 10:39	0°♄	
	15242 May 13 08:52	0°♄		desc. node	15247 Oct 13 01:17	23°♄33'28	
	15242 Jul 01 21:29	0°♄			15247 Oct 23 17:41	0°♄	
	15242 Aug 24 18:42	0°♄			15247 Dec 11 17:29	0°♄	
	15242 Nov 17 23:00	0°♄			15248 Jan 29 06:34	0°♄	
retrograde	15242 Nov 22 11:28	0°♄07'21			15248 Mar 17 11:00	0°♄	
	15242 Nov 26 21:52	30°♄07'21		evening set	15248 Apr 03 06:47	10°♄34'17	
opposition	15242 Dec 28 20:20	22°♄19'30 -3°32'09			15248 May 03 21:15	0°♄	
greatest brilliancy	15242 Dec 29 22:35	21°♄55'13 -1.9m		max. Earth dist.	15248 May 04 18:37	0°♄34'11	2.66486 AU
min. Earth dist.	15243 Jan 05 15:56	19°♄26'34 0.54826 AU					
direct	15243 Feb 06 09:42	12°♄55'14		conjunction	15248 May 16 23:46	8°♄24'57 -1°12'18	
asc. node	15243 Mar 13 05:37	20°♄07'52		minimum elong	15248 May 17 00:01	8°♄25'22 -1°13'09	
	15243 Apr 04 00:30	0°♄			15248 Jun 19 02:29	0°♄	
	15243 May 22 19:32	0°♄		morning rise	15248 Jun 30 05:36	7°♄22'16	
	15243 Jul 03 04:12	0°♄			15248 Aug 02 19:19	0°♄	
	15243 Aug 11 08:29	0°♄			15248 Sep 14 21:10	0°♄	
	15243 Sep 19 08:06	0°♄			15248 Oct 26 09:53	0°♄	
	15243 Oct 29 07:02	0°♄		asc. node	15248 Nov 02 12:37	5°♄14'13	
	15243 Dec 09 22:11	0°♄			15248 Dec 05 18:24	0°♄	
desc. node	15244 Jan 07 21:15	20°♄05'23			15249 Jan 14 18:18	0°♄	
evening set	15244 Jan 19 00:36	27°♄39'39			15249 Feb 25 01:36	0°♄	
	15244 Jan 22 11:46	0°♄			15249 Apr 13 06:46	0°♄	
	15244 Mar 07 20:58	0°♄		retrograde	15249 Jun 10 01:07	18°♄42'14	
				min. Earth dist.	15249 Jul 09 18:46	12°♄36'09 0.50506 AU	
conjunction	15244 Mar 08 01:31	0°♄07'24 -0°34'11		opposition	15249 Jul 17 18:47	9°♄38'36 2°12'42	
minimum elong	15244 Mar 08 00:21	0°♄05'30 0°34'04		greatest brilliancy	15249 Jul 17 03:42	9°♄52'36 -2.1m	
max. Earth dist.	15244 Mar 22 00:36	9°♄09'15 2.64952 AU		direct	15249 Aug 21 08:48	2°♄13'16	
morning rise	15244 Apr 22 04:34	29°♄03'20		desc. node	15249 Aug 30 10:55	2°♄44'00	
	15244 Apr 23 16:21	0°♄			15249 Nov 13 01:15	0°♄	
	15244 Jun 10 12:23	0°♄			15250 Jan 06 19:33	0°♄	
	15244 Jul 29 06:11	0°♄			15250 Feb 26 10:17	0°♄	
	15244 Sep 17 12:00	0°♄			15250 Apr 15 16:31	0°♄	
	15244 Nov 11 04:59	0°♄		evening set	15250 May 08 20:51	14°♄54'22	
retrograde	15245 Jan 22 07:09	22°♄34'58		max. Earth dist.	15250 May 29 16:11	28°♄35'14 2.59100 AU	
asc. node	15245 Jan 28 13:22	22°♄19'59			15250 May 31 19:08	0°♄	
opposition	15245 Feb 22 15:29	16°♄54'03 1°42'58					
greatest brilliancy	15245 Feb 23 02:28	16°♄45'40 -2.7m		conjunction	15250 Jun 24 02:03	15°♄42'53 -0°51'35	
min. Earth dist.	15245 Mar 02 01:48	14°♄38'27 0.40870 AU		minimum elong	15250 Jun 24 03:36	15°♄45'33 0°52'31	
direct	15245 Mar 28 10:17	10°♄09'22			15250 Jul 14 17:58	0°♄	
	15245 May 26 09:55	0°♄		morning rise	15250 Aug 13 06:24	20°♄59'04	
	15245 Jul 12 04:40	0°♄			15250 Aug 25 15:56	0°♄	
	15245 Aug 23 18:47	0°♄		asc. node	15250 Sep 20 02:57	18°♄52'51	
	15245 Oct 05 06:47	0°♄			15250 Oct 04 20:05	0°♄	
	15245 Nov 17 22:22	0°♄			15250 Nov 12 18:57	0°♄	
desc. node	15245 Nov 24 18:45	4°♄36'59			15250 Dec 21 06:35	0°♄	
	15246 Jan 02 01:18	0°♄			15251 Jan 29 07:14	0°♄	
	15246 Feb 17 10:57	0°♄			15251 Mar 11 07:02	0°♄	
evening set	15246 Feb 27 17:11	6°♄33'19			15251 Apr 25 21:38	0°♄	
	15246 Apr 05 14:45	0°♄			15251 Jun 30 23:35	0°♄	
				desc. node	15251 Jul 18 17:38	2°♄21'06	
conjunction	15246 Apr 13 07:10	4°♄52'06 -1°05'01		retrograde	15251 Jul 20 13:28	2°♄22'27	
minimum elong	15246 Apr 13 06:10	4°♄50'31 1°05'28			15251 Aug 08 01:47	30°♄	
max. Earth dist.	15246 Apr 13 18:20	5°♄09'47 2.68474 AU		min. Earth dist.	15251 Aug 24 23:04	24°♄19'44 0.62349 AU	
	15246 May 22 22:03	0°♄		opposition	15251 Aug 29 20:37	22°♄23'45 -1°44'51	
morning rise	15246 May 26 07:21	2°♄09'17		greatest brilliancy	15251 Aug 29 12:01	22°♄32'15 -1.6m	
	15246 Jul 08 20:41	0°♄		direct	15251 Oct 07 09:35	13°♄29'57	
	15246 Aug 24 03:39	0°♄			15251 Dec 08 05:59	0°♄	
	15246 Oct 08 17:27	0°♄			15252 Feb 04 22:36	0°♄	
	15246 Nov 22 19:16	0°♄			15252 Mar 26 12:51	0°♄	
asc. node	15246 Dec 16 16:19	15°♄49'40			15252 May 12 05:24	0°♄	
	15247 Jan 07 11:51	0°♄		evening set	15252 Jun 17 20:39	25°♄00'44	
	15247 Feb 28 14:42	0°♄			15252 Jun 24 22:44	0°♄	
retrograde	15247 Apr 14 04:27	12°♄00'56		max. Earth dist.	15252 Jul 01 12:52	4°♄40'46 2.46911 AU	
min. Earth dist.	15247 May 10 09:10	7°♄43'44 0.37815 AU			15252 Aug 05 05:59	0°♄	
greatest brilliancy	15247 May 14 08:45	6°♄35'45 -2.9m		asc. node	15252 Aug 06 15:43	1°♄02'52	
opposition	15247 May 15 13:18	6°♄15'21 7°06'29					
direct	15247 Jun 14 00:08	1°♄10'50		conjunction	15252 Aug 11 07:50	4°♄32'35 0°03'16	

minimum elong	15252 Aug 11 07:35	4° \mathbb{M} 32'08	0°02'47		15257 May 20 16:58	0° \mathcal{B}
behind sun begin	15252 Aug 10 06:57	3° \mathbb{M} 45'57			15257 Jul 10 13:01	0° \mathbb{I}
behind sun end	15252 Aug 12 08:14	5° \mathbb{M} 18'22			15257 Sep 07 19:14	0° \mathcal{B}
	15252 Sep 13 16:51	0° \mathcal{B}		retrograde	15257 Nov 04 06:03	14° \mathcal{B} 36'53
greatest brilliancy	15252 Oct 11 05:23	21° \mathcal{B} 29'49	1.2m	opposition	15257 Dec 11 23:40	6° \mathcal{B} 15'43 -4°20'38
morning rise	15252 Oct 15 18:01	25° \mathcal{B} 03'44		greatest brilliancy	15257 Dec 13 01:12	5° \mathcal{B} 51'28 -1.6m
	15252 Oct 22 00:16	0° \mathbb{M}		min. Earth dist.	15257 Dec 18 13:10	3° \mathcal{B} 46'19 0.59568 AU
	15252 Nov 28 23:51	0° \mathcal{X}			15257 Dec 29 14:49	30° \mathcal{R} \mathbb{I}
	15253 Jan 06 13:16	0° \mathcal{Z}		direct	15258 Jan 21 14:25	26° \mathbb{I} 27'48
	15253 Feb 15 16:00	0° \approx			15258 Feb 14 21:37	0° \mathcal{B}
	15253 Mar 30 11:26	0° \mathcal{H}		asc. node	15258 Mar 29 17:02	18° \mathcal{B} 16'33
	15253 May 16 23:30	0° \mathcal{Y}			15258 Apr 18 20:38	0° \mathcal{Q}
desc. node	15253 Jun 04 19:26	10° \mathcal{Y} 34'35			15258 Jun 02 10:45	0° \mathbb{M}
	15253 Jul 17 15:59	0° \mathcal{B}			15258 Jul 12 15:31	0° \mathcal{B}
retrograde	15253 Aug 23 06:08	7° \mathcal{B} 01'21			15258 Aug 20 05:51	0° \mathbb{M}
	15253 Sep 25 19:28	30° \mathcal{R} \mathcal{Y}			15258 Sep 27 18:25	0° \mathcal{X}
min. Earth dist.	15253 Oct 01 23:01	27° \mathcal{Y} 36'13	0.68212 AU		15258 Nov 06 06:19	0° \mathcal{Z}
opposition	15253 Oct 03 01:36	27° \mathcal{Y} 09'52	-3°56'26		15258 Dec 17 10:18	0° \approx
greatest brilliancy	15253 Oct 02 20:31	27° \mathcal{Y} 14'55	-1.3m	evening set	15258 Dec 31 02:13	9° \approx 39'02
direct	15253 Nov 12 21:00	17° \mathcal{Y} 29'04		desc. node	15259 Jan 24 14:52	26° \approx 36'53
	15254 Jan 04 06:10	0° \mathcal{B}			15259 Jan 29 14:11	0° \mathcal{H}
	15254 Mar 04 17:35	0° \mathbb{I}				
	15254 Apr 22 12:30	0° \mathcal{B}		conjunction	15259 Feb 21 08:16	15° \mathcal{H} 16'55 -0°16'32
	15254 Jun 05 16:15	0° \mathcal{Q}		minimum elong	15259 Feb 21 07:34	15° \mathcal{H} 15'45 0°16'11
asc. node	15254 Jun 24 10:16	13° \mathcal{Q} 27'01		max. Earth dist.	15259 Mar 13 13:26	28° \mathcal{H} 35'50 2.62037 AU
	15254 Jul 16 19:21	0° \mathbb{M}			15259 Mar 15 17:03	0° \mathcal{Y}
evening set	15254 Aug 13 01:22	20° \mathbb{M} 47'07		morning rise	15259 Apr 09 08:54	15° \mathcal{Y} 55'38
	15254 Aug 24 21:46	0° \mathcal{B}			15259 May 01 12:30	0° \mathcal{B}
	15254 Oct 01 21:50	0° \mathbb{M}			15259 Jun 18 19:18	0° \mathbb{I}
					15259 Aug 07 20:16	0° \mathcal{B}
conjunction	15254 Oct 22 22:57	16° \mathbb{M} 43'13	1°05'02		15259 Sep 30 16:00	0° \mathcal{Q}
minimum elong	15254 Oct 22 20:38	16° \mathbb{M} 38'37	1°05'39	retrograde	15259 Dec 26 20:02	29° \mathcal{Q} 31'50
	15254 Nov 08 17:45	0° \mathcal{X}		opposition	15260 Jan 29 10:59	22° \mathcal{Q} 54'42 -1°00'26
max. Earth dist.	15254 Dec 06 14:56	21° \mathcal{X} 47'34	2.37029 AU	greatest brilliancy	15260 Jan 29 20:38	22° \mathcal{Q} 46'32 -2.4m
	15254 Dec 17 06:54	0° \mathcal{Z}		min. Earth dist.	15260 Feb 07 04:15	19° \mathcal{Q} 58'53 0.46224 AU
morning rise	15255 Jan 03 22:07	13° \mathcal{Z} 22'18		asc. node	15260 Feb 15 01:37	17° \mathcal{Q} 37'06
	15255 Jan 26 08:58	0° \approx		direct	15260 Mar 06 02:33	14° \mathcal{Q} 48'20
	15255 Mar 09 17:00	0° \mathcal{H}			15260 Apr 26 02:51	0° \mathbb{M}
desc. node	15255 Apr 22 12:54	29° \mathcal{H} 03'54			15260 Jun 13 09:43	0° \mathcal{B}
	15255 Apr 24 00:06	0° \mathcal{Y}			15260 Jul 24 22:59	0° \mathbb{M}
	15255 Jun 12 17:09	0° \mathcal{B}			15260 Sep 03 09:12	0° \mathcal{X}
	15255 Aug 13 08:12	0° \mathbb{I}			15260 Oct 14 11:57	0° \mathcal{Z}
retrograde	15255 Sep 26 19:20	9° \mathbb{I} 30'00			15260 Nov 26 02:47	0° \approx
opposition	15255 Nov 05 19:03	0° \mathbb{I} 11'07	-4°51'31	desc. node	15260 Dec 11 10:26	10° \approx 29'26
greatest brilliancy	15255 Nov 06 05:37	0° \mathbb{I} 00'45	-1.3m		15261 Jan 09 11:30	0° \mathcal{H}
	15255 Nov 06 06:23	30° \mathcal{R} \mathcal{B}		evening set	15261 Feb 12 19:05	22° \mathcal{H} 30'28
min. Earth dist.	15255 Nov 08 14:00	29° \mathcal{B} 05'30	0.67310 AU		15261 Feb 24 09:06	0° \mathcal{Y}
direct	15255 Dec 17 08:48	20° \mathcal{B} 09'22				
	15256 Jan 30 20:34	0° \mathbb{I}		conjunction	15261 Mar 30 15:03	21° \mathcal{Y} 55'52 -0°55'43
	15256 Mar 29 13:26	0° \mathcal{B}		minimum elong	15261 Mar 30 13:49	21° \mathcal{Y} 53'53 0°55'58
asc. node	15256 May 11 10:59	27° \mathcal{B} 41'06		max. Earth dist.	15261 Apr 05 04:07	25° \mathcal{Y} 27'28 2.67743 AU
	15256 May 14 19:48	0° \mathcal{Q}			15261 Apr 12 07:42	0° \mathcal{B}
	15256 Jun 25 11:29	0° \mathbb{M}		morning rise	15261 May 13 01:41	19° \mathcal{B} 28'11
	15256 Aug 03 15:29	0° \mathcal{B}			15261 May 29 17:43	0° \mathbb{I}
	15256 Sep 10 15:53	0° \mathbb{M}			15261 Jul 16 04:51	0° \mathcal{B}
	15256 Oct 18 14:54	0° \mathcal{X}			15261 Sep 01 13:50	0° \mathcal{Q}
evening set	15256 Oct 28 15:29	7° \mathcal{X} 50'10			15261 Oct 19 02:33	0° \mathbb{M}
	15256 Nov 26 10:49	0° \mathcal{Z}			15261 Dec 06 22:46	0° \mathcal{B}
				asc. node	15262 Jan 02 07:51	15° \mathcal{B} 03'47
conjunction	15257 Jan 02 19:36	27° \mathcal{Z} 46'14	0°38'49		15262 Feb 02 03:21	0° \mathbb{M}
minimum elong	15257 Jan 02 22:02	27° \mathcal{Z} 50'39	0°39'41	retrograde	15262 Mar 14 04:17	9° \mathbb{M} 10'37
	15257 Jan 05 21:22	0° \approx		opposition	15262 Apr 12 13:49	4° \mathbb{M} 18'38 6°31'11
max. Earth dist.	15257 Feb 12 00:14	26° \approx 16'03	2.51044 AU	greatest brilliancy	15262 Apr 12 13:08	4° \mathbb{M} 19'05 -3.0m
	15257 Feb 17 10:13	0° \mathcal{H}		min. Earth dist.	15262 Apr 12 19:12	4° \mathbb{M} 15'06 0.36380 AU
morning rise	15257 Feb 28 02:40	7° \mathcal{H} 17'35			15262 May 02 15:08	30° \mathcal{R} \mathcal{B}
desc. node	15257 Mar 09 00:55	13° \mathcal{H} 18'44		direct	15262 May 11 20:01	29° \mathcal{B} 25'43
	15257 Apr 03 07:03	0° \mathcal{Y}			15262 May 21 02:12	0° \mathbb{M}

	15262 Jul 31 04:38	0°♊			15267 Aug 13 12:50	0°♎	
	15262 Sep 17 11:46	0°♋		asc. node	15267 Aug 24 12:33	8°♎11'06	
desc. node	15262 Oct 29 12:19	27°♋01'09		morning rise	15267 Sep 18 01:19	26°♎47'22	
	15262 Nov 03 03:36	0°♌			15267 Sep 22 05:37	0°♌	
	15262 Dec 20 02:23	0°♍			15267 Oct 30 17:50	0°♍	
	15263 Feb 05 14:05	0°♎			15267 Dec 07 20:33	0°♊	
evening set	15263 Mar 21 16:07	27°♎44'03			15268 Jan 15 12:02	0°♋	
	15263 Mar 25 06:25	0°♌			15268 Feb 24 18:20	0°♌	
max. Earth dist.	15263 Apr 27 00:48	20°♌43'49	2.67911 AU		15268 Apr 08 02:57	0°♍	
					15268 May 27 22:26	0°♎	
conjunction	15263 May 04 08:39	25°♌23'33	-1°12'30	desc. node	15268 Jun 21 09:11	11°♎55'18	
minimum elong	15263 May 04 08:21	25°♌23'05	1°13'13	retrograde	15268 Aug 10 01:26	24°♎18'50	
	15263 May 11 13:56	0°♍		min. Earth dist.	15268 Sep 17 05:23	15°♎23'00	0.66716 AU
morning rise	15263 Jun 16 17:01	23°♍17'05		opposition	15268 Sep 19 20:20	14°♎20'34	-3°15'36
	15263 Jun 27 00:05	0°♎		greatest brilliancy	15268 Sep 19 11:37	14°♎29'12	-1.3m
	15263 Aug 11 04:51	0°♏		direct	15268 Oct 29 22:59	4°♎54'41	
	15263 Sep 24 00:32	0°♎			15269 Jan 18 02:44	0°♌	
	15263 Nov 05 11:54	0°♌			15269 Mar 13 09:21	0°♍	
asc. node	15263 Nov 20 05:58	10°♌36'35			15269 Apr 30 02:19	0°♎	
	15263 Dec 16 23:43	0°♍			15269 Jun 13 00:19	0°♏	
	15264 Jan 27 13:36	0°♊		asc. node	15269 Jul 11 03:13	20°♏18'31	
	15264 Mar 12 07:00	0°♋		evening set	15269 Jul 19 07:50	26°♏22'30	
retrograde	15264 May 21 14:01	26°♋35'13			15269 Jul 24 04:23	0°♎	
min. Earth dist.	15264 Jun 17 21:51	21°♋24'32	0.44952 AU	max. Earth dist.	15269 Aug 09 23:49	12°♎42'44	2.38532 AU
greatest brilliancy	15264 Jun 25 01:50	18°♋57'14	-2.4m		15269 Sep 01 09:43	0°♌	
opposition	15264 Jun 26 06:56	18°♋32'06	4°19'12				
direct	15264 Jul 28 20:25	11°♋59'41		conjunction	15269 Sep 21 12:08	15°♌45'36	0°46'54
desc. node	15264 Sep 15 21:28	24°♋05'24		minimum elong	15269 Sep 21 08:19	15°♌38'04	0°47'01
	15264 Sep 29 04:35	0°♌			15269 Oct 09 12:06	0°♍	
	15264 Nov 24 22:36	0°♍			15269 Nov 16 08:39	0°♊	
	15265 Jan 15 06:46	0°♎		morning rise	15269 Dec 05 05:05	14°♊47'43	
	15265 Mar 05 16:34	0°♌			15269 Dec 24 20:44	0°♋	
	15265 Apr 22 12:48	0°♍			15270 Feb 02 21:04	0°♌	
evening set	15265 Apr 24 16:55	1°♍23'14			15270 Mar 17 05:56	0°♍	
max. Earth dist.	15265 May 19 11:04	17°♍22'37	2.62615 AU		15270 May 02 00:08	0°♎	
	15265 Jun 07 15:08	0°♎		desc. node	15270 May 09 05:54	4°♎28'55	
					15270 Jun 22 19:10	0°♌	
conjunction	15265 Jun 08 10:56	0°♎32'54	-1°03'24	retrograde	15270 Sep 13 02:34	27°♋03'05	
minimum elong	15265 Jun 08 12:05	0°♎34'49	1°04'20	opposition	15270 Oct 23 13:44	17°♋28'49	-4°39'01
	15265 Jul 21 19:43	0°♏		greatest brilliancy	15270 Oct 23 17:29	17°♋25'08	-1.2m
morning rise	15265 Jul 25 12:50	2°♏34'56		min. Earth dist.	15270 Oct 24 19:44	16°♋59'15	0.68478 AU
	15265 Sep 02 02:45	0°♎		direct	15270 Dec 04 00:41	7°♋32'15	
asc. node	15265 Oct 06 22:43	25°♎40'08			15271 Feb 15 06:10	0°♍	
	15265 Oct 12 17:14	0°♌			15271 Apr 08 19:52	0°♎	
	15265 Nov 21 01:53	0°♍			15271 May 23 22:56	0°♏	
	15265 Dec 29 22:44	0°♊		asc. node	15271 May 29 00:30	3°♏33'32	
	15266 Feb 07 10:45	0°♋			15271 Jul 04 07:22	0°♎	
	15266 Mar 21 10:36	0°♌			15271 Aug 12 09:46	0°♌	
	15266 May 09 21:44	0°♍			15271 Sep 19 09:16	0°♍	
retrograde	15266 Jul 05 21:25	17°♍11'56		evening set	15271 Sep 28 13:46	7°♍17'52	
desc. node	15266 Aug 04 06:10	11°♍19'51			15271 Oct 27 06:16	0°♊	
min. Earth dist.	15266 Aug 08 05:49	9°♍50'05	0.58324 AU		15271 Dec 04 22:37	0°♋	
opposition	15266 Aug 14 12:35	7°♍23'15	-0°27'50				
greatest brilliancy	15266 Aug 14 09:38	7°♍26'06	-1.8m	conjunction	15271 Dec 09 11:07	3°♋26'20	0°58'13
	15266 Sep 08 01:33	30°♌		minimum elong	15271 Dec 09 14:02	3°♋31'53	0°59'08
direct	15266 Sep 20 17:24	28°♌57'40			15272 Jan 14 04:31	0°♌	
	15266 Oct 04 03:16	0°♍		max. Earth dist.	15272 Jan 27 13:29	9°♌38'43	2.45535 AU
	15266 Dec 21 08:03	0°♎		morning rise	15272 Feb 09 21:56	19°♌06'47	
	15267 Feb 13 10:25	0°♌			15272 Feb 25 13:38	0°♍	
	15267 Apr 03 20:38	0°♍		desc. node	15272 Mar 25 21:05	19°♍47'19	
	15267 May 20 05:52	0°♎			15272 Apr 10 11:11	0°♎	
evening set	15267 Jun 01 17:50	8°♎23'38			15272 May 28 10:12	0°♌	
max. Earth dist.	15267 Jun 17 06:01	18°♎59'50	2.52182 AU		15272 Jul 20 09:16	0°♍	
	15267 Jul 03 00:34	0°♏			15272 Oct 09 15:15	0°♎	
				retrograde	15272 Oct 18 21:47	0°♎29'38	
conjunction	15267 Jul 21 23:32	13°♏30'47	-0°22'17		15272 Oct 27 19:42	30°♌	
minimum elong	15267 Jul 22 00:47	13°♏33'02	0°23'01	opposition	15272 Nov 26 17:20	21°♍41'55	-4°45'39

greatest brilliancy	15272 Nov 27 14:11	21°II21'46	-1.4m			15277 Nov 12 08:25	0°≈	
min. Earth dist.	15272 Dec 01 20:26	19°II43'05	0.63388 AU	desc. node		15277 Nov 15 01:13	1°≈47'53	
direct	15273 Jan 06 23:14	11°II42'30				15277 Dec 27 23:43	0°H	
	15273 Mar 09 20:30	0°☾				15278 Feb 12 16:50	0°Y	
asc. node	15273 Apr 15 05:48	20°☾37'52		evening set		15278 Mar 07 19:46	14°Y41'09	
	15273 Apr 29 20:18	0°Ω				15278 Apr 01 00:14	0°8	
	15273 Jun 11 17:08	0°൬		max. Earth dist.		15278 Apr 18 16:23	11°811'25	2.68514 AU
	15273 Jul 21 07:42	0°♎						
	15273 Aug 28 14:03	0°♌		conjunction		15278 Apr 20 22:36	12°837'18	-1°08'52
	15273 Oct 05 19:20	0°♊		minimum elong		15278 Apr 20 21:50	12°836'05	1°09'25
	15273 Nov 13 23:16	0°☾				15278 May 18 07:08	0°II	
evening set	15273 Dec 09 08:56	18°☾50'15		morning rise		15278 Jun 02 22:09	9°II58'43	
	15273 Dec 24 18:45	0°≈				15278 Jul 04 00:49	0°☾	
						15278 Aug 18 21:33	0°Ω	
conjunction	15274 Feb 04 00:19	28°≈53'35	0°03'56			15278 Oct 02 17:46	0°൬	
minimum elong	15274 Feb 04 00:33	28°≈53'58	0°04'30			15278 Nov 15 15:27	0°♎	
behind sun begin	15274 Feb 03 03:15	28°≈17'33		asc. node		15278 Dec 07 00:02	14°♎44'03	
behind sun end	15274 Feb 04 21:50	29°≈30'21				15278 Dec 29 04:31	0°♌	
	15274 Feb 05 15:11	0°H				15279 Feb 12 15:25	0°♊	
desc. node	15274 Feb 10 08:51	3°H13'40		retrograde		15279 Apr 29 10:43	29°♊48'26	
max. Earth dist.	15274 Mar 03 06:57	17°H17'32	2.58340 AU	min. Earth dist.		15279 May 25 06:54	25°♊23'29	0.39885 AU
	15274 Mar 22 13:48	0°Y		greatest brilliancy		15279 May 30 23:13	23°♊39'37	-2.8m
morning rise	15274 Mar 25 17:46	2°Y03'48		opposition		15279 Jun 01 10:20	23°♊12'42	6°22'47
	15274 May 08 11:53	0°8		direct		15279 Jul 01 17:40	17°♊40'19	
	15274 Jun 26 10:37	0°II				15279 Aug 19 08:13	0°☾	
	15274 Aug 17 11:47	0°☾		desc. node		15279 Oct 03 07:25	22°☾49'24	
	15274 Oct 18 12:30	0°Ω				15279 Oct 16 00:01	0°≈	
retrograde	15274 Dec 03 22:11	10°Ω19'43				15279 Dec 05 19:13	0°H	
opposition	15275 Jan 08 10:18	2°Ω54'01	-2°49'03			15280 Jan 24 03:31	0°Y	
greatest brilliancy	15275 Jan 09 09:32	2°Ω33'01	-2.0m			15280 Mar 12 17:07	0°8	
	15275 Jan 16 11:43	30°R☾		evening set		15280 Apr 11 00:30	18°823'45	
min. Earth dist.	15275 Jan 16 18:37	29°☾53'58	0.51884 AU			15280 Apr 29 06:35	0°II	
direct	15275 Feb 16 03:34	23°☾50'56		max. Earth dist.		15280 May 10 00:02	6°II52'59	2.65345 AU
asc. node	15275 Mar 03 13:42	25°☾25'21						
	15275 Mar 19 16:37	0°Ω		conjunction		15280 May 24 22:33	16°II33'02	-1°10'20
	15275 May 14 23:07	0°൬		minimum elong		15280 May 24 23:09	16°II34'01	1°11'13
	15275 Jun 26 16:15	0°♎				15280 Jun 14 10:43	0°☾	
	15275 Aug 05 10:17	0°♌		morning rise		15280 Jul 08 22:55	16°☾22'09	
	15275 Sep 13 18:43	0°♊				15280 Jul 28 23:21	0°Ω	
	15275 Oct 24 01:02	0°☾				15280 Sep 09 18:20	0°൬	
	15275 Dec 04 22:23	0°≈				15280 Oct 20 22:44	0°♎	
desc. node	15275 Dec 29 01:15	16°≈41'12		asc. node		15280 Oct 23 18:10	2°♎05'06	
	15276 Jan 17 17:06	0°H				15280 Nov 29 21:29	0°♌	
evening set	15276 Jan 28 18:37	7°H23'27				15281 Jan 08 09:04	0°♊	
	15276 Mar 03 05:22	0°Y				15281 Feb 17 18:18	0°☾	
						15281 Apr 02 23:29	0°≈	
conjunction	15276 Mar 16 11:08	8°Y33'13	-0°43'04			15281 Jun 16 13:13	0°H	
minimum elong	15276 Mar 16 09:51	8°Y31'10	0°43'06	retrograde		15281 Jun 19 21:57	0°H04'54	
max. Earth dist.	15276 Mar 27 06:49	15°Y30'04	2.66178 AU			15281 Jun 23 05:58	30°R≈	
	15276 Apr 19 01:01	0°8		min. Earth dist.		15281 Jul 20 23:41	23°≈30'17	0.53439 AU
morning rise	15276 Apr 29 20:07	6°850'10		opposition		15281 Jul 28 11:33	20°≈39'43	1°08'06
	15276 Jun 05 16:20	0°II		greatest brilliancy		15281 Jul 28 04:06	20°≈46'46	-2.0m
	15276 Jul 23 20:55	0°☾		desc. node		15281 Aug 20 16:32	13°≈51'06	
	15276 Sep 10 19:45	0°Ω		direct		15281 Sep 02 01:09	12°≈50'24	
	15276 Oct 31 19:32	0°൬				15281 Nov 03 07:37	0°H	
	15276 Dec 31 14:25	0°♎				15281 Dec 31 15:50	0°Y	
asc. node	15277 Jan 18 20:50	5°♎41'52				15282 Feb 21 06:52	0°8	
retrograde	15277 Feb 08 19:13	8°♎19'06				15282 Apr 10 22:16	0°II	
opposition	15277 Mar 11 02:15	3°♎06'54	3°36'40	evening set		15282 May 17 05:47	23°II26'44	
greatest brilliancy	15277 Mar 11 17:50	2°♎55'44	-2.9m			15282 May 27 03:15	0°☾	
min. Earth dist.	15277 Mar 16 14:13	1°♎32'40	0.38484 AU	max. Earth dist.		15282 Jun 05 00:18	5°☾56'31	2.56828 AU
	15277 Mar 22 09:23	30°R൬						
direct	15277 Apr 12 00:20	27°൬12'18		conjunction		15282 Jul 03 14:38	25°☾30'32	-0°42'26
	15277 May 02 03:58	0°♎		minimum elong		15282 Jul 03 16:15	25°☾33'21	0°43'19
	15277 Jul 01 23:53	0°♌				15282 Jul 10 00:58	0°Ω	
	15277 Aug 16 03:48	0°♊				15282 Aug 20 19:38	0°൬	
	15277 Sep 28 22:05	0°☾		morning rise		15282 Aug 25 02:35	3°൬09'34	

asc. node	15282 Sep 10 07:15	15° \mathbb{M} 12'54		greatest brilliancy	15287 Nov 14 03:50	7° \mathbb{I} 54'34	-1.3m
	15282 Sep 29 19:55	0° \mathbf{a}		min. Earth dist.	15287 Nov 17 04:22	6° \mathbb{I} 43'47	0.66190 AU
	15282 Nov 07 14:53	0° \mathbb{M}			15287 Dec 08 00:03	30° \mathbb{R} \mathbf{B}	
	15282 Dec 15 22:50	0° \mathbf{z}		direct	15287 Dec 25 02:13	28° \mathbf{B} 06'09	
	15283 Jan 23 19:06	0° \mathbf{Z}			15288 Jan 12 05:32	0° \mathbb{I}	
	15283 Mar 05 09:43	0° \approx			15288 Mar 22 17:01	0° \mathbf{G}	
	15283 Apr 18 20:01	0° \mathbf{H}		asc. node	15288 May 01 18:02	24° \mathbf{G} 59'14	
	15283 Jun 13 04:13	0° \mathbf{Y}			15288 May 09 04:32	0° \mathcal{O}	
desc. node	15283 Jul 08 23:34	8° \mathbf{Y} 36'01			15288 Jun 20 04:52	0° \mathbb{M}	
retrograde	15283 Jul 28 12:19	10° \mathbf{Y} 55'25			15288 Jul 29 12:19	0° \mathbf{a}	
min. Earth dist.	15283 Sep 02 22:48	2° \mathbf{Y} 32'55	0.64166 AU		15288 Sep 05 14:35	0° \mathbb{M}	
opposition	15283 Sep 07 01:32	0° \mathbf{Y} 55'14	-2°22'28		15288 Oct 13 15:20	0° \mathbf{z}	
greatest brilliancy	15283 Sep 06 15:47	1° \mathbf{Y} 04'53	-1.5m	evening set	15288 Nov 13 19:49	24° \mathbf{z} 07'24	
	15283 Sep 09 09:43	30° \mathbb{R} \mathbf{H}			15288 Nov 21 13:25	0° \mathbf{Z}	
direct	15283 Oct 16 05:41	21° \mathbf{H} 48'46			15289 Jan 01 02:09	0° \approx	
	15283 Nov 26 07:57	0° \mathbf{Y}					
	15284 Jan 29 16:46	0° \mathbf{B}		conjunction	15289 Jan 15 07:12	10° \approx 10'50	0°26'08
	15284 Mar 21 08:47	0° \mathbb{I}		minimum elong	15289 Jan 15 08:48	10° \approx 13'42	0°26'54
	15284 May 07 09:35	0° \mathbf{G}			15289 Feb 12 16:26	0° \mathbf{H}	
	15284 Jun 20 05:03	0° \mathcal{O}		max. Earth dist.	15289 Feb 19 14:42	4° \mathbf{H} 44'08	2.53840 AU
evening set	15284 Jun 28 10:08	5° \mathcal{O} 50'22		desc. node	15289 Feb 27 04:11	9° \mathbf{H} 51'45	
max. Earth dist.	15284 Jul 12 10:45	15° \mathcal{O} 57'48	2.43870 AU	morning rise	15289 Mar 09 20:27	17° \mathbf{H} 01'36	
asc. node	15284 Jul 27 21:37	27° \mathcal{O} 20'09			15289 Mar 29 12:28	0° \mathbf{Y}	
	15284 Jul 31 11:29	0° \mathbb{M}			15289 May 15 16:04	0° \mathbf{B}	
					15289 Jul 04 14:56	0° \mathbb{I}	
conjunction	15284 Aug 24 21:49	18° \mathbb{M} 28'33	0°19'21		15289 Aug 29 03:59	0° \mathbf{G}	
minimum elong	15284 Aug 24 20:15	18° \mathbb{M} 25'35	0°19'03	retrograde	15289 Nov 14 06:16	23° \mathbf{G} 42'12	
	15284 Sep 08 20:35	0° \mathbf{a}		opposition	15289 Dec 21 07:06	15° \mathbf{G} 38'17	-3°55'52
	15284 Oct 17 02:02	0° \mathbb{M}		greatest brilliancy	15289 Dec 22 09:31	15° \mathbf{G} 13'29	-1.8m
morning rise	15284 Nov 02 14:34	13° \mathbb{M} 04'58		min. Earth dist.	15289 Dec 28 14:07	12° \mathbf{G} 54'37	0.57051 AU
	15284 Nov 24 00:01	0° \mathbf{z}		direct	15290 Jan 30 09:20	6° \mathbf{G} 01'35	
	15285 Jan 01 12:12	0° \mathbf{Z}		asc. node	15290 Mar 20 02:42	18° \mathbf{G} 55'31	
	15285 Feb 10 12:45	0° \approx			15290 Apr 10 09:41	0° \mathcal{O}	
	15285 Mar 25 01:56	0° \mathbf{H}			15290 May 26 23:49	0° \mathbb{M}	
	15285 May 10 16:36	0° \mathbf{Y}			15290 Jul 06 19:15	0° \mathbf{a}	
desc. node	15285 May 25 23:14	8° \mathbf{Y} 59'53			15290 Aug 14 16:42	0° \mathbb{M}	
	15285 Jul 05 16:28	0° \mathbf{B}			15290 Sep 22 10:21	0° \mathbf{z}	
retrograde	15285 Aug 30 19:13	14° \mathbf{B} 40'33			15290 Nov 01 03:13	0° \mathbf{Z}	
opposition	15285 Oct 10 12:55	4° \mathbf{B} 54'20	-4°15'26		15290 Dec 12 11:57	0° \approx	
greatest brilliancy	15285 Oct 10 10:36	4° \mathbf{B} 56'37	-1.2m	evening set	15291 Jan 11 02:54	20° \approx 39'27	
min. Earth dist.	15285 Oct 10 06:12	5° \mathbf{B} 00'58	0.68593 AU	desc. node	15291 Jan 14 17:52	23° \approx 08'24	
	15285 Oct 23 15:35	30° \mathbb{R} \mathbf{Y}			15291 Jan 24 19:52	0° \mathbf{H}	
direct	15285 Nov 20 15:21	25° \mathbf{Y} 07'03					
	15285 Dec 21 08:44	0° \mathbf{B}		conjunction	15291 Mar 02 10:40	24° \mathbf{H} 22'51	-0°27'10
	15286 Feb 26 08:18	0° \mathbb{I}		minimum elong	15291 Mar 02 09:39	24° \mathbf{H} 21'10	0°26'58
	15286 Apr 17 05:02	0° \mathbf{G}			15291 Mar 11 01:01	0° \mathbf{Y}	
	15286 May 31 16:45	0° \mathcal{O}		max. Earth dist.	15291 Mar 19 02:48	5° \mathbf{Y} 14'41	2.63757 AU
asc. node	15286 Jun 14 16:30	9° \mathcal{O} 57'54		morning rise	15291 Apr 17 07:35	23° \mathbf{Y} 58'42	
	15286 Jul 11 22:03	0° \mathbb{M}			15291 Apr 26 19:28	0° \mathbf{B}	
	15286 Aug 20 00:52	0° \mathbf{a}			15291 Jun 13 19:05	0° \mathbb{I}	
evening set	15286 Aug 28 18:58	6° \mathbf{a} 51'45			15291 Aug 02 00:31	0° \mathbf{G}	
	15286 Sep 27 00:45	0° \mathbb{M}			15291 Sep 22 12:23	0° \mathcal{O}	
	15286 Nov 03 20:36	0° \mathbf{z}			15291 Nov 21 00:32	0° \mathbb{M}	
				retrograde	15292 Jan 10 15:22	12° \mathbb{M} 24'22	
conjunction	15286 Nov 09 19:15	4° \mathbf{z} 40'41	1°07'28	asc. node	15292 Feb 05 11:00	8° \mathbb{M} 18'58	
minimum elong	15286 Nov 09 19:27	4° \mathbf{z} 41'05	1°08'16	opposition	15292 Feb 11 23:56	6° \mathbb{M} 17'56	0°25'38
	15286 Dec 12 10:05	0° \mathbf{Z}		greatest brilliancy	15292 Feb 12 03:11	6° \mathbb{M} 15'20	-2.6m
max. Earth dist.	15287 Jan 02 05:49	15° \mathbf{Z} 45'27	2.39801 AU	min. Earth dist.	15292 Feb 20 06:58	3° \mathbb{M} 38'53	0.43164 AU
morning rise	15287 Jan 18 10:11	27° \mathbf{Z} 44'23			15292 Mar 05 17:13	30° \mathbb{R} \mathcal{O}	
	15287 Jan 21 12:19	0° \approx		direct	15292 Mar 18 04:32	28° \mathcal{O} 53'44	
	15287 Mar 04 19:05	0° \mathbf{H}			15292 Mar 30 16:53	0° \mathbb{M}	
desc. node	15287 Apr 12 15:14	25° \mathbf{H} 59'04			15292 Jun 03 20:16	0° \mathbf{a}	
	15287 Apr 18 20:26	0° \mathbf{Y}			15292 Jul 17 13:23	0° \mathbb{M}	
	15287 Jun 06 16:48	0° \mathbf{B}			15292 Aug 27 23:04	0° \mathbf{z}	
	15287 Aug 02 14:27	0° \mathbb{I}			15292 Oct 08 17:09	0° \mathbf{Z}	
retrograde	15287 Oct 04 22:18	17° \mathbb{I} 17'37			15292 Nov 20 19:29	0° \approx	
opposition	15287 Nov 13 13:26	8° \mathbb{I} 08'37	-4°53'28	desc. node	15292 Dec 01 14:07	7° \approx 19'49	

	15293 Jan 04 12:40	0° H			15297 Nov 15 18:09	0° M	
	15293 Feb 19 15:51	0° Y			15297 Dec 24 09:18	0° X	
evening set	15293 Feb 21 10:01	1° Y 07'43			15298 Feb 01 13:29	0° Z	
					15298 Mar 14 19:55	0° \approx	
conjunction	15293 Apr 07 11:27	29° Y 51'26 -1°01'37			15298 Apr 30 11:40	0° H	
minimum elong	15293 Apr 07 10:21	29° Y 49'40 1°01'59		retrograde	15298 Jul 14 08:34	26° H 31'37	
	15293 Apr 07 16:51	0° B		desc. node	15298 Jul 25 11:44	25° H 39'21	
max. Earth dist.	15293 Apr 10 04:43	1° B 34'55 2.68262 AU		min. Earth dist.	15298 Aug 17 20:53	18° H 46'54 0.60656 AU	
morning rise	15293 May 20 14:35	27° B 11'16		opposition	15298 Aug 23 10:12	16° H 36'04 -1°14'56	
	15293 May 25 01:04	0° II		greatest brilliancy	15298 Aug 23 03:12	16° H 42'56 -1.6m	
	15293 Jul 11 05:03	0° E		direct	15298 Sep 30 10:05	7° H 54'09	
	15293 Aug 26 22:56	0° O			15298 Dec 13 07:29	0° Y	
	15293 Oct 12 07:02	0° N			15299 Feb 07 18:56	0° B	
	15293 Nov 27 16:30	0° A			15299 Mar 29 21:32	0° II	
asc. node	15293 Dec 23 14:46	16° A 22'57			15299 May 15 12:02	0° E	
	15294 Jan 15 05:14	0° M		evening set	15299 Jun 11 05:27	18° E 05'36	
retrograde	15294 Apr 01 03:12	28° M 10'23		max. Earth dist.	15299 Jun 25 13:53	28° E 04'51 2.49327 AU	
min. Earth dist.	15294 Apr 28 09:11	23° M 45'40 0.36749 AU			15299 Jun 28 07:20	0° O	
opposition	15294 May 01 08:25	22° M 57'21 7°12'33					
greatest brilliancy	15294 Apr 30 15:04	23° M 09'09 -3.0m		conjunction	15299 Aug 02 14:52	25° O 28'10 -0°08'15	
direct	15294 May 30 11:15	18° M 06'22		minimum elong	15299 Aug 02 15:26	25° O 29'13 0°08'51	
	15294 Jul 15 13:49	0° X		behind sun begin	15299 Aug 01 19:15	24° O 52'03	
	15294 Sep 08 21:52	0° Z		behind sun end	15299 Aug 03 11:37	26° O 06'25	
desc. node	15294 Oct 19 19:02	25° Z 05'06			15299 Aug 08 17:52	0° N	
	15294 Oct 27 16:13	0° \approx		asc. node	15299 Aug 14 16:06	4° N 24'48	
	15294 Dec 14 14:56	0° H			15299 Sep 17 08:13	0° A	
	15295 Jan 31 15:26	0° Y		morning rise	15299 Oct 03 14:16	12° A 36'46	
	15295 Mar 20 14:14	0° B			15299 Oct 25 18:13	0° M	
evening set	15295 Mar 29 11:00	5° B 34'34			15299 Dec 02 19:01	0° X	
max. Earth dist.	15295 May 02 01:40	26° B 51'58 2.67232 AU		greatest brilliancy	15299 Dec 22 02:49	15° X 07'50 1.2m	
	15295 May 06 23:29	0° II			15300 Jan 10 08:35	0° Z	
					15300 Feb 19 11:19	0° \approx	
conjunction	15295 May 12 02:17	3° II 16'27 -1°12'55			15300 Apr 03 09:17	0° H	
minimum elong	15295 May 12 02:19	3° II 16'30 1°13'43			15300 May 21 12:45	0° Y	
	15295 Jun 22 07:27	0° E		desc. node	15300 Jun 12 14:38	11° Y 52'05	
morning rise	15295 Jun 24 20:35	1° E 40'29			15300 Jul 30 10:30	0° B	
	15295 Aug 06 06:14	0° O		retrograde	15300 Aug 18 14:24	2° B 08'18	
	15295 Sep 18 16:17	0° N			15300 Sep 05 15:04	30° R Y	
	15295 Oct 30 14:57	0° A		min. Earth dist.	15300 Sep 26 15:21	22° Y 56'04 0.67671 AU	
asc. node	15295 Nov 10 12:22	7° A 56'40		opposition	15300 Sep 28 10:37	22° Y 13'11 -3°41'09	
	15295 Dec 10 10:20	0° M		greatest brilliancy	15300 Sep 28 03:35	22° Y 20'10 -1.3m	
	15296 Jan 19 23:30	0° X		direct	15300 Nov 07 23:42	12° Y 38'40	
	15296 Mar 02 06:51	0° Z			15301 Jan 10 16:53	0° B	
	15296 Apr 22 19:59	0° \approx			15301 Mar 08 16:31	0° II	
retrograde	15296 Jun 01 22:27	10° \approx 03'55			15301 Apr 26 01:18	0° E	
min. Earth dist.	15296 Jun 30 14:28	4° \approx 22'09 0.48024 AU			15301 Jun 09 04:04	0° O	
opposition	15296 Jul 08 21:03	1° \approx 23'26 3°05'18		asc. node	15301 Jul 02 09:18	16° O 41'31	
greatest brilliancy	15296 Jul 07 23:42	1° \approx 42'44 -2.3m			15301 Jul 20 08:38	0° N	
	15296 Jul 12 19:18	30° R Z		evening set	15301 Aug 02 17:32	10° N 05'50	
direct	15296 Aug 11 13:37	24° Z 20'22			15301 Aug 28 13:05	0° A	
desc. node	15296 Sep 06 04:27	28° Z 04'28		max. Earth dist.	15301 Sep 18 20:44	16° A 44'31 2.36306 AU	
	15296 Sep 12 17:35	0° \approx			15301 Oct 05 14:27	0° M	
	15296 Nov 17 14:22	0° H					
	15297 Jan 09 16:20	0° Y		conjunction	15301 Oct 09 21:39	3° M 24'54 0°59'08	
	15297 Feb 28 18:03	0° B		minimum elong	15301 Oct 09 18:02	3° M 17'43 0°59'33	
	15297 Apr 17 20:25	0° II			15301 Nov 12 10:19	0° X	
evening set	15297 May 02 17:01	9° II 31'09			15301 Dec 20 22:15	0° Z	
max. Earth dist.	15297 May 25 05:59	24° II 12'43 2.60777 AU		morning rise	15301 Dec 23 12:26	1° Z 59'04	
	15297 Jun 02 23:49	0° E			15302 Jan 29 22:22	0° \approx	
					15302 Mar 13 04:49	0° H	
conjunction	15297 Jun 17 04:20	9° E 29'57 -0°57'13			15302 Apr 27 14:00	0° Y	
minimum elong	15297 Jun 17 05:45	9° E 32'20 0°58'08		desc. node	15302 Apr 30 09:34	1° Y 46'43	
	15297 Jul 17 02:21	0° O			15302 Jun 16 21:37	0° B	
morning rise	15297 Aug 04 19:29	13° O 09'47			15302 Aug 23 01:24	0° II	
	15297 Aug 28 05:15	0° N		retrograde	15302 Sep 21 20:32	4° II 38'58	
asc. node	15297 Sep 27 03:52	22° N 07'51			15302 Oct 19 02:43	30° R B	
	15297 Oct 07 14:42	0° A		opposition	15302 Nov 01 01:55	25° B 12'40 -4°47'46	

greatest brilliancy	15302 Nov 01 09:22	25°♄05'20	-1.3m			15307 Nov 30 19:48	0°♁	
min. Earth dist.	15302 Nov 03 04:01	24°♄23'27	0.67969 AU	desc. node		15307 Dec 20 05:53	13°♁22'57	
direct	15302 Dec 12 15:15	15°♄12'51				15308 Jan 13 20:39	0°♄	
	15303 Feb 07 05:23	0°♂		evening set		15308 Feb 08 01:13	16°♄39'39	
	15303 Apr 03 21:06	0°♄				15308 Feb 28 12:57	0°♄	
	15303 May 19 16:47	0°♂						
asc. node	15303 May 20 09:05	0°♂28'16		conjunction		15308 Mar 25 15:05	16°♄46'28	-0°50'53
	15303 Jun 30 06:22	0°♄		minimum elong		15308 Mar 25 13:48	16°♄44'24	0°51'04
	15303 Aug 08 10:23	0°♂		max. Earth dist.		15308 Apr 02 10:31	21°♄45'38	2.67145 AU
	15303 Sep 15 10:31	0°♄				15308 Apr 15 09:26	0°♄	
greatest brilliancy	15303 Oct 06 09:01	16°♄36'50	1.1m	morning rise		15308 May 08 10:11	14°♄34'54	
evening set	15303 Oct 17 06:11	25°♄12'50				15308 Jun 01 21:12	0°♂	
	15303 Oct 23 08:03	0°♄				15308 Jul 19 15:28	0°♄	
	15303 Dec 01 01:21	0°♄				15308 Sep 05 15:20	0°♂	
						15308 Oct 24 09:43	0°♄	
conjunction	15303 Dec 25 07:11	18°♄13'04	0°47'50			15308 Dec 15 08:10	0°♄	
minimum elong	15303 Dec 25 10:05	18°♄18'26	0°48'43	asc. node		15309 Jan 10 05:27	12°♄49'33	
	15304 Jan 10 08:31	0°♁		retrograde		15309 Feb 28 08:30	25°♄33'26	
max. Earth dist.	15304 Feb 07 13:41	20°♁08'39	2.48645 AU	opposition		15309 Mar 29 21:03	20°♄40'12	5°26'02
	15304 Feb 21 18:01	0°♄		greatest brilliancy		15309 Mar 30 07:27	20°♄33'12	-3.0m
morning rise	15304 Feb 22 03:24	0°♄16'09		min. Earth dist.		15309 Apr 01 17:12	19°♄54'28	0.36909 AU
desc. node	15304 Mar 16 22:05	16°♄23'31		direct		15309 Apr 29 00:47	15°♄27'31	
	15304 Apr 06 13:27	0°♄				15309 Jun 18 06:01	0°♄	
	15304 May 24 02:37	0°♄				15309 Aug 08 06:23	0°♄	
	15304 Jul 14 14:51	0°♂				15309 Sep 23 00:06	0°♄	
	15304 Sep 15 21:18	0°♄		desc. node		15309 Nov 06 06:36	29°♄12'04	
retrograde	15304 Oct 28 23:41	8°♄54'45				15309 Nov 07 11:52	0°♁	
opposition	15304 Dec 06 05:52	0°♄20'51	-4°33'20			15309 Dec 23 18:25	0°♄	
greatest brilliancy	15304 Dec 07 05:32	29°♂58'10	-1.5m			15310 Feb 08 20:49	0°♄	
	15304 Dec 07 03:37	30°♄♂		evening set		15310 Mar 16 18:53	22°♄41'28	
min. Earth dist.	15304 Dec 12 04:13	28°♂04'41	0.61403 AU			15310 Mar 28 08:46	0°♄	
direct	15305 Jan 16 04:31	20°♂26'41		max. Earth dist.		15310 Apr 24 14:07	17°♄13'38	2.68279 AU
	15305 Feb 27 07:12	0°♄						
asc. node	15305 Apr 06 14:22	19°♄17'42		conjunction		15310 Apr 29 14:32	20°♄24'44	-1°11'29
	15305 Apr 24 03:04	0°♂		minimum elong		15310 Apr 29 14:03	20°♄23'58	1°12'09
	15305 Jun 06 22:21	0°♄				15310 May 14 15:55	0°♂	
	15305 Jul 16 21:04	0°♄		morning rise		15310 Jun 11 17:21	18°♂00'05	
	15305 Aug 24 07:47	0°♄				15310 Jun 30 05:44	0°♄	
	15305 Oct 01 16:21	0°♄				15310 Aug 14 17:45	0°♂	
	15305 Nov 09 23:31	0°♄				15310 Sep 28 00:12	0°♄	
	15305 Dec 20 22:18	0°♁				15310 Nov 10 01:42	0°♄	
evening set	15305 Dec 23 00:54	1°♁30'26		asc. node		15310 Nov 28 05:18	12°♄50'57	
desc. node	15306 Feb 01 11:11	29°♁42'55				15310 Dec 22 07:51	0°♄	
	15306 Feb 01 21:12	0°♄				15311 Feb 03 02:28	0°♄	
						15311 Mar 23 08:14	0°♄	
conjunction	15306 Feb 15 02:13	8°♄56'41	-0°08'16	retrograde		15311 May 14 00:54	15°♄57'58	
minimum elong	15306 Feb 15 01:51	8°♄56'04	0°07'51	min. Earth dist.		15311 Jun 09 11:51	11°♄10'06	0.42550 AU
behind sun begin	15306 Feb 14 07:12	8°♄24'43		greatest brilliancy		15311 Jun 16 04:28	8°♄59'01	-2.6m
behind sun end	15306 Feb 15 20:29	9°♄27'23		opposition		15311 Jun 17 13:53	8°♄31'29	5°16'04
max. Earth dist.	15306 Mar 10 10:51	24°♄29'02	2.60477 AU	direct		15311 Jul 19 03:48	2°♄25'50	
	15306 Mar 18 20:48	0°♄		desc. node		15311 Sep 24 14:31	23°♄12'25	
morning rise	15306 Apr 04 04:59	10°♄36'03				15311 Oct 07 22:55	0°♁	
	15306 May 04 16:03	0°♄				15311 Nov 30 12:21	0°♄	
	15306 Jun 22 04:06	0°♂				15312 Jan 19 21:24	0°♄	
	15306 Aug 11 22:09	0°♄				15312 Mar 08 22:02	0°♄	
	15306 Oct 07 03:45	0°♂		evening set		15312 Apr 19 18:50	26°♄15'45	
retrograde	15306 Dec 17 08:02	21°♂17'43				15312 Apr 25 15:39	0°♂	
opposition	15307 Jan 20 20:47	14°♂17'35	-1°52'43	max. Earth dist.		15312 May 16 07:50	13°♂17'54	2.63934 AU
greatest brilliancy	15307 Jan 21 13:48	14°♂02'43	-2.2m					
min. Earth dist.	15307 Jan 29 13:42	11°♂16'03	0.48778 AU	conjunction		15312 Jun 03 02:23	24°♂54'18	-1°06'54
asc. node	15307 Feb 22 22:35	5°♂51'41		minimum elong		15312 Jun 03 03:19	24°♂55'51	1°07'49
direct	15307 Feb 27 13:30	5°♂42'35				15312 Jun 10 19:36	0°♄	
	15307 May 06 09:19	0°♄		morning rise		15312 Jul 19 03:36	25°♄50'36	
	15307 Jun 20 11:23	0°♄				15312 Jul 25 04:31	0°♂	
	15307 Jul 31 02:05	0°♄				15312 Sep 05 17:33	0°♄	
	15307 Sep 08 22:44	0°♄		asc. node		15312 Oct 14 22:47	28°♄45'49	
	15307 Oct 19 14:25	0°♄				15312 Oct 16 14:32	0°♄	

	15312 Nov 25 05:29	0°♌			15318 Feb 20 08:34	0°♐		
	15313 Jan 03 07:56	0°♏			15318 Apr 12 17:41	0°♍		
	15313 Feb 12 02:50	0°♎			15318 May 27 15:25	0°♌		
	15313 Mar 26 18:13	0°♍	asc. node		15318 Jun 05 23:08	6°♌34'56		
	15313 May 18 14:26	0°♋			15318 Jul 07 23:41	0°♎		
retrograde	15313 Jun 30 03:57	10°♋33'47			15318 Aug 16 02:59	0°♎		
min. Earth dist.	15313 Aug 01 12:43	3°♋32'33	0.56239 AU	evening set	15318 Sep 15 17:54	24°♎08'35		
opposition	15313 Aug 08 09:40	0°♋53'32	0°10'07		15318 Sep 23 02:58	0°♌		
greatest brilliancy	15325 Mar 28 00:55	25°♑32'19	2.0m		15318 Oct 30 23:10	0°♏		
	15313 Aug 10 17:45	30°♑						
desc. node	15313 Aug 11 23:46	29°♑31'50		conjunction	15318 Nov 27 22:37	21°♏50'32	1°04'01	
direct	15313 Sep 13 22:19	22°♑43'08		minimum elong	15318 Nov 28 00:52	21°♏54'53	1°04'56	
	15313 Oct 21 19:52	0°♋			15318 Dec 08 13:22	0°♎		
	15313 Dec 26 01:33	0°♑			15319 Jan 17 16:26	0°♍		
	15314 Feb 17 00:34	0°♉		max. Earth dist.	15319 Jan 19 08:56	1°♍13'48	2.42954 AU	
	15314 Apr 07 03:08	0°♐		morning rise	15319 Feb 01 13:55	10°♍45'59		
	15314 May 23 11:42	0°♍			15319 Feb 28 22:46	0°♋		
evening set	15314 May 26 21:00	2°♍15'33		desc. node	15319 Apr 03 18:07	22°♋46'38		
max. Earth dist.	15314 Jun 12 19:07	13°♍40'54	2.54352 AU		15319 Apr 14 19:51	0°♑		
	15314 Jul 06 08:58	0°♌			15319 Jun 02 00:34	0°♉		
					15319 Jul 26 04:04	0°♐		
conjunction	15314 Jul 14 16:38	5°♌52'14	-0°31'33	retrograde	15319 Oct 14 07:27	25°♐15'10		
minimum elong	15314 Jul 14 18:08	5°♌54'53	0°32'21	opposition	15319 Nov 22 12:38	16°♐17'09	-4°50'38	
	15314 Aug 17 01:07	0°♎		greatest brilliancy	15319 Nov 23 06:40	15°♐59'38	-1.4m	
asc. node	15314 Sep 01 12:54	11°♎31'04		min. Earth dist.	15319 Nov 26 23:30	14°♐33'27	0.64778 AU	
morning rise	15314 Sep 08 01:19	16°♎25'05		direct	15320 Jan 02 22:39	6°♐15'37		
	15314 Sep 25 21:51	0°♎			15320 Mar 15 23:34	0°♍		
	15314 Nov 03 13:21	0°♌		asc. node	15320 Apr 23 03:16	22°♍40'29		
	15314 Dec 11 18:00	0°♏			15320 May 04 07:07	0°♌		
	15315 Jan 19 10:28	0°♎			15320 Jun 15 19:42	0°♎		
	15315 Feb 28 18:25	0°♍			15320 Jul 25 07:31	0°♎		
	15315 Apr 13 09:30	0°♋			15320 Sep 01 12:04	0°♌		
	15315 Jun 03 16:03	0°♑			15320 Oct 09 14:44	0°♏		
desc. node	15315 Jun 30 04:05	11°♑39'25			15320 Nov 17 14:57	0°♎		
retrograde	15315 Aug 06 06:55	19°♑10'22		evening set	15320 Nov 29 17:12	9°♎04'22		
min. Earth dist.	15315 Sep 12 17:11	10°♑29'10	0.65714 AU		15320 Dec 28 06:11	0°♍		
opposition	15315 Sep 16 00:39	9°♑10'30	-2°55'23					
greatest brilliancy	15315 Sep 15 14:58	9°♑20'04	-1.4m	conjunction	15321 Jan 27 19:08	21°♍37'15	0°13'12	
	15315 Oct 21 07:33	30°♑		minimum elong	15321 Jan 27 19:54	21°♍38'36	0°13'51	
direct	15315 Oct 25 18:36	29°♋52'43		behind sun begin	15321 Jan 27 08:33	21°♍18'53		
	15315 Oct 30 07:38	0°♑		behind sun end	15321 Jan 28 07:15	21°♍58'19		
	15316 Jan 23 22:20	0°♉			15321 Feb 08 22:22	0°♋		
	15316 Mar 17 01:14	0°♐		desc. node	15321 Feb 18 06:07	6°♋21'30		
	15316 May 03 12:33	0°♍		max. Earth dist.	15321 Feb 27 13:14	12°♋37'58	2.56427 AU	
	15316 Jun 16 10:56	0°♌		morning rise	15321 Mar 20 01:46	26°♋16'08		
evening set	15316 Jul 10 19:16	17°♌29'59			15321 Mar 25 18:25	0°♑		
asc. node	15316 Jul 19 03:02	23°♌36'55			15321 May 11 17:09	0°♉		
max. Earth dist.	15316 Jul 27 04:00	29°♌35'12	2.40854 AU		15321 Jun 29 23:49	0°♐		
	15316 Jul 27 17:16	0°♎			15321 Aug 22 04:31	0°♍		
	15316 Sep 05 01:03	0°♎			15321 Oct 31 23:26	0°♌		
				retrograde	15321 Nov 26 00:12	3°♌22'59		
conjunction	15316 Sep 09 19:50	3°♎43'18	0°35'30		15321 Dec 19 06:14	30°♑		
minimum elong	15316 Sep 09 16:49	3°♎37'26	0°35'25	opposition	15322 Jan 01 06:20	25°♍38'55	-3°21'19	
	15316 Oct 13 05:11	0°♌		greatest brilliancy	15322 Jan 02 07:46	25°♍15'30	-1.9m	
	15316 Nov 20 02:05	0°♏		min. Earth dist.	15322 Jan 09 04:57	22°♍44'14	0.54288 AU	
morning rise	15316 Nov 21 23:37	1°♏29'47		direct	15322 Feb 09 16:29	16°♍18'30		
	15316 Dec 28 13:16	0°♎		asc. node	15322 Mar 11 11:09	21°♍43'59		
	15317 Feb 06 12:16	0°♍			15322 Mar 31 09:32	0°♌		
	15317 Mar 20 20:40	0°♋			15322 May 20 20:56	0°♎		
	15317 May 05 19:51	0°♑			15322 Jul 01 15:13	0°♎		
desc. node	15317 May 17 01:58	6°♑51'39			15322 Aug 09 23:05	0°♌		
	15317 Jun 27 19:14	0°♉			15322 Sep 17 23:47	0°♏		
retrograde	15317 Sep 08 08:42	22°♉16'20			15322 Oct 27 22:28	0°♎		
opposition	15317 Oct 18 23:45	12°♉36'11	-4°30'45		15322 Dec 08 12:38	0°♍		
greatest brilliancy	15317 Oct 19 00:39	12°♉35'19	-1.2m	desc. node	15323 Jan 05 21:19	19°♍42'14		
min. Earth dist.	15317 Oct 19 13:03	12°♉23'05	0.68665 AU		15323 Jan 21 00:54	0°♋		
direct	15317 Nov 29 08:09	2°♉43'25		evening set	15323 Jan 22 08:43	0°♋53'37		

	15323 Mar 07 08:48	0°♂	retrograde	15328 Jun 13 09:30	22°♊18'00	
			min. Earth dist.	15328 Jul 13 09:45	16°♊06'42	0.51050 AU
conjunction	15323 Mar 12 02:41	3°♂04'56 -0°36'50	opposition	15328 Jul 21 08:09	13°♊09'35	1°55'34
minimum elong	15323 Mar 12 01:28	3°♂02'57 0°36'46	greatest brilliancy	15328 Jul 20 18:58	13°♊21'52	-2.1m
max. Earth dist.	15323 Mar 25 11:39	11°♂43'11 2.65194 AU	direct	15328 Aug 25 02:06	5°♊39'47	
	15323 Apr 23 02:52	0°♂	desc. node	15328 Aug 28 09:58	5°♊43'58	
morning rise	15323 Apr 26 01:54	1°♂52'30		15328 Nov 10 02:17	0°♊	
	15323 Jun 09 21:00	0°♊		15329 Jan 04 18:34	0°♂	
	15323 Jul 28 11:05	0°♋		15329 Feb 24 16:45	0°♂	
	15323 Sep 16 08:01	0°♌		15329 Apr 14 03:03	0°♊	
	15323 Nov 08 19:46	0°♍	evening set	15329 May 11 21:15	17°♊50'37	
asc. node	15324 Jan 27 18:16	26°♍50'43		15329 May 30 08:27	0°♋	
retrograde	15324 Jan 28 00:28	26°♍50'44	max. Earth dist.	15329 Jun 01 06:59	1°♋17'27	2.58691 AU
opposition	15324 Feb 28 03:34	21°♍15'41 2°09'48				
greatest brilliancy	15324 Feb 28 16:33	21°♍05'52 -2.8m	conjunction	15329 Jun 27 07:05	18°♋51'56	-0°49'21
min. Earth dist.	15324 Mar 06 05:10	19°♍07'53 0.40356 AU	minimum elong	15329 Jun 27 08:40	18°♋54'39	0°50'15
direct	15324 Apr 01 13:56	14°♍40'37		15329 Jul 13 09:16	0°♌	
	15324 May 22 06:24	0°♎	morning rise	15329 Aug 16 21:00	24°♌32'57	
	15324 Jul 09 21:09	0°♏		15329 Aug 24 08:38	0°♍	
	15324 Aug 21 22:26	0°♐	asc. node	15329 Sep 18 08:01	18°♍29'54	
	15324 Oct 03 14:55	0°♑		15329 Oct 03 13:39	0°♎	
	15324 Nov 16 08:26	0°♒		15329 Nov 11 12:44	0°♏	
desc. node	15324 Nov 22 20:23	4°♒22'34		15329 Dec 19 23:42	0°♐	
	15324 Dec 31 12:03	0°♑		15330 Jan 27 22:14	0°♑	
	15325 Feb 15 21:55	0°♒		15330 Mar 09 17:04	0°♒	
evening set	15325 Mar 02 16:48	9°♒26'26		15330 Apr 23 18:06	0°♑	
	15325 Apr 04 01:50	0°♓		15330 Jun 23 05:27	0°♒	
			desc. node	15330 Jul 16 17:53	5°♒04'15	
conjunction	15325 Apr 16 04:02	7°♓39'39 -1°06'19	retrograde	15330 Jul 23 12:08	5°♒22'24	
minimum elong	15325 Apr 16 03:07	7°♓38'11 1°06'49		15330 Aug 20 21:01	30°♓♊	
max. Earth dist.	15325 Apr 16 03:37	7°♓38'59 2.68509 AU	min. Earth dist.	15330 Aug 28 02:40	27°♓16'39	0.62707 AU
	15325 May 21 09:12	0°♊	opposition	15330 Sep 01 21:37	25°♓23'24	-1°56'24
morning rise	15325 May 29 03:42	4°♊56'40	greatest brilliancy	15330 Sep 01 12:21	25°♓32'31	-1.5m
	15325 Jul 07 07:34	0°♋	direct	15330 Oct 10 14:23	16°♓27'15	
	15325 Aug 22 13:22	0°♌		15330 Dec 04 12:42	0°♓	
	15325 Oct 07 00:21	0°♍		15331 Feb 02 19:48	0°♓	
	15325 Nov 20 20:16	0°♎		15331 Mar 25 20:03	0°♊	
asc. node	15325 Dec 14 22:41	16°♎08'05		15331 May 11 17:47	0°♋	
	15326 Jan 04 22:50	0°♏	evening set	15331 Jun 22 05:35	28°♋19'53	
	15326 Feb 23 13:32	0°♐		15331 Jun 24 14:28	0°♌	
retrograde	15326 Apr 18 17:55	16°♐53'58	max. Earth dist.	15331 Jul 05 22:37	8°♌03'28	2.46351 AU
min. Earth dist.	15326 May 14 16:46	12°♐37'41 0.38140 AU		15331 Aug 04 23:55	0°♍	
greatest brilliancy	15326 May 19 02:36	11°♐21'39 -2.9m	asc. node	15331 Aug 05 21:39	0°♍40'25	
opposition	15326 May 20 09:13	10°♐59'33 7°00'31				
direct	15326 Jun 18 21:31	5°♐50'39	conjunction	15331 Aug 16 05:29	8°♍24'26	0°07'11
	15326 Aug 30 01:56	0°♑	minimum elong	15331 Aug 16 04:58	8°♍23'28	0°06'44
desc. node	15326 Oct 11 01:21	23°♑45'48	behind sun begin	15331 Aug 15 05:42	7°♍39'43	
	15326 Oct 21 12:42	0°♒	behind sun end	15331 Aug 17 04:13	9°♍07'15	
	15326 Dec 09 21:09	0°♑		15331 Sep 13 12:01	0°♎	
	15327 Jan 27 14:08	0°♒	morning rise	15331 Oct 21 11:59	29°♎44'39	
	15327 Mar 16 20:51	0°♓		15331 Oct 21 19:46	0°♏	
evening set	15327 Apr 07 04:27	13°♓23'11		15331 Nov 28 18:50	0°♐	
	15327 May 03 08:45	0°♊		15332 Jan 06 06:47	0°♑	
max. Earth dist.	15327 May 08 04:15	3°♊04'46 2.66299 AU		15332 Feb 15 06:49	0°♒	
				15332 Mar 28 21:17	0°♑	
conjunction	15327 May 20 21:52	11°♊16'08 -1°11'58		15332 May 14 22:00	0°♒	
minimum elong	15327 May 20 22:15	11°♊16'44 1°12'49	desc. node	15332 Jun 02 19:09	10°♒48'25	
	15327 Jun 18 15:20	0°♋		15332 Jul 12 20:58	0°♓	
morning rise	15327 Jul 04 06:43	10°♋21'56	retrograde	15332 Aug 26 03:08	9°♓50'35	
	15327 Aug 02 09:10	0°♌	opposition	15332 Oct 05 22:58	29°♓59'57	-4°02'47
	15327 Sep 14 11:36	0°♍	min. Earth dist.	15332 Oct 04 23:36	0°♓23'04	0.68312 AU
	15327 Oct 26 00:16	0°♎		15332 Oct 05 22:55	30°♓♒	
asc. node	15327 Nov 01 18:34	4°♎58'50	greatest brilliancy	15332 Oct 05 18:17	0°♓04'34	-1.3m
	15327 Dec 05 07:46	0°♏	direct	15332 Nov 15 20:37	20°♓17'59	
	15328 Jan 14 04:40	0°♐		15332 Dec 31 00:12	0°♓	
	15328 Feb 24 04:06	0°♑		15333 Mar 02 15:01	0°♊	
	15328 Apr 10 04:07	0°♒		15333 Apr 20 21:14	0°♋	

	15333 Jun 04 06:30	0°♏		minimum elong	15338 Feb 24 12:57	18°♂23'27	0°19'18
asc. node	15333 Jun 22 15:44	13°♏08'04			15338 Mar 14 04:36	0°♑	
	15333 Jul 15 12:53	0°♑		max. Earth dist.	15338 Mar 16 04:29	1°♑18'04	2.62398 AU
evening set	15333 Aug 17 08:59	25°♑03'51		morning rise	15338 Apr 12 08:07	18°♑49'21	
	15333 Aug 23 17:11	0°♒			15338 Apr 29 22:11	0°♒	
	15333 Sep 30 18:00	0°♓			15338 Jun 17 02:01	0°♓	
					15338 Aug 05 20:46	0°♐	
conjunction	15333 Oct 27 19:15	21°♓29'09	1°06'13		15338 Sep 27 22:12	0°♏	
minimum elong	15333 Oct 27 17:30	21°♓25'41	1°06'53		15338 Dec 07 00:53	0°♑	
	15333 Nov 07 13:36	0°♑		retrograde	15338 Dec 30 23:45	3°♑12'09	
max. Earth dist.	15333 Dec 14 16:05	28°♑55'53	2.37488 AU		15339 Jan 22 14:47	30°♏	
	15333 Dec 16 01:30	0°♒		opposition	15339 Feb 02 08:24	26°♏40'38	-0°40'37
morning rise	15334 Jan 08 05:46	17°♒33'22		greatest brilliancy	15339 Feb 02 15:03	26°♏35'05	-2.4m
	15334 Jan 25 01:26	0°♓		min. Earth dist.	15339 Feb 11 00:54	23°♏46'44	0.45643 AU
	15334 Mar 08 06:18	0°♑		asc. node	15339 Feb 13 08:14	23°♏02'49	
desc. node	15334 Apr 20 11:54	28°♑48'33		direct	15339 Mar 10 19:19	18°♏41'06	
	15334 Apr 22 08:28	0°♑			15339 Apr 22 19:21	0°♑	
	15334 Jun 10 14:55	0°♒			15339 Jun 12 05:51	0°♒	
	15334 Aug 09 02:06	0°♓			15339 Jul 24 05:33	0°♓	
retrograde	15334 Sep 29 18:54	12°♓20'07			15339 Sep 02 19:20	0°♑	
opposition	15334 Nov 08 17:19	3°♓02'49	-4°52'38		15339 Oct 13 23:10	0°♒	
greatest brilliancy	15334 Nov 09 04:35	2°♓51'47	-1.3m		15339 Nov 25 14:03	0°♓	
min. Earth dist.	15334 Nov 11 15:37	1°♓54'01	0.67113 AU	desc. node	15339 Dec 10 09:20	10°♓08'35	
	15334 Nov 16 14:34	30°♒			15340 Jan 08 22:25	0°♑	
direct	15334 Dec 20 07:32	23°♒01'06		evening set	15340 Feb 16 22:49	25°♑33'46	
	15335 Jan 25 22:37	0°♓			15340 Feb 23 19:40	0°♑	
	15335 Mar 28 11:07	0°♐					
asc. node	15335 May 10 15:52	27°♐33'46		conjunction	15340 Apr 02 14:26	24°♑49'21	-0°57'37
	15335 May 14 05:35	0°♏		minimum elong	15340 Apr 02 13:13	24°♑47'25	0°57'55
	15335 Jun 25 02:28	0°♑		max. Earth dist.	15340 Apr 07 12:08	27°♑56'24	2.67878 AU
	15335 Aug 03 09:06	0°♒			15340 Apr 10 17:58	0°♒	
	15335 Sep 10 10:39	0°♓		morning rise	15340 May 15 23:04	22°♒17'55	
	15335 Oct 18 09:42	0°♑			15340 May 28 03:29	0°♓	
evening set	15335 Nov 03 07:12	12°♑24'32			15340 Jul 14 13:21	0°♐	
	15335 Nov 26 04:44	0°♒			15340 Aug 30 19:23	0°♏	
	15336 Jan 05 13:41	0°♓			15340 Oct 17 01:44	0°♑	
					15340 Dec 04 06:06	0°♒	
conjunction	15336 Jan 07 17:20	1°♓33'31	0°35'43	asc. node	15340 Dec 31 12:47	16°♒02'24	
minimum elong	15336 Jan 07 19:35	1°♓37'36	0°36'32		15341 Jan 27 04:02	0°♓	
max. Earth dist.	15336 Feb 15 21:46	29°♓14'15	2.51589 AU	retrograde	15341 Mar 19 02:11	14°♓06'22	
	15336 Feb 17 00:19	0°♑		opposition	15341 Apr 17 14:18	9°♓12'05	6°46'09
morning rise	15336 Mar 03 10:23	10°♑31'07		greatest brilliancy	15341 Apr 17 10:47	9°♓14'25	-3.0m
desc. node	15336 Mar 07 01:16	12°♑57'32		min. Earth dist.	15341 Apr 17 05:47	9°♓17'44	0.36370 AU
	15336 Apr 01 18:18	0°♑		direct	15341 May 16 20:18	4°♓21'06	
	15336 May 18 23:57	0°♒			15341 Jul 27 21:19	0°♑	
	15336 Jul 08 11:00	0°♓			15341 Sep 15 06:55	0°♒	
	15336 Sep 04 05:03	0°♐		desc. node	15341 Oct 27 12:42	26°♒57'06	
retrograde	15336 Nov 07 12:18	17°♐38'59			15341 Nov 01 07:02	0°♓	
opposition	15336 Dec 15 03:42	9°♐20'40	-4°14'24		15341 Dec 18 09:16	0°♑	
greatest brilliancy	15336 Dec 16 05:18	8°♐56'23	-1.7m		15342 Feb 03 22:44	0°♑	
min. Earth dist.	15336 Dec 21 20:54	6°♐48'17	0.59105 AU		15342 Mar 23 16:15	0°♒	
	15337 Jan 16 19:01	30°♒		evening set	15342 Mar 24 15:17	0°♒36'15	
direct	15337 Jan 24 16:44	29°♓34'43		max. Earth dist.	15342 Apr 29 13:41	23°♒19'56	2.67807 AU
	15337 Feb 01 19:07	0°♐					
asc. node	15337 Mar 27 23:32	18°♐54'39		conjunction	15342 May 07 06:52	28°♒14'45	-1°12'51
	15337 Apr 16 14:06	0°♏		minimum elong	15342 May 07 06:40	28°♒14'27	1°13'36
	15337 May 31 19:23	0°♑			15342 May 10 00:50	0°♓	
	15337 Jul 11 05:16	0°♒		morning rise	15342 Jun 19 16:25	26°♓12'32	
	15337 Aug 18 21:30	0°♓			15342 Jun 25 11:49	0°♐	
	15337 Sep 26 10:24	0°♑			15342 Aug 09 16:56	0°♏	
	15337 Nov 04 21:46	0°♒			15342 Sep 22 12:16	0°♑	
	15337 Dec 16 00:42	0°♓			15342 Nov 03 22:19	0°♒	
evening set	15338 Jan 03 17:58	13°♓12'08		asc. node	15342 Nov 18 11:37	10°♒29'21	
desc. node	15338 Jan 22 14:32	26°♓13'43			15342 Dec 15 07:16	0°♓	
	15338 Jan 28 03:14	0°♑			15343 Jan 25 14:31	0°♑	
					15343 Mar 10 11:19	0°♒	
conjunction	15338 Feb 24 13:45	18°♑24'47	-0°19'35		15343 May 17 00:14	0°♓	

retrograde	15343 May 26 06:09	0°≈37'42		max. Earth dist.	15348 Aug 16 09:06	18°♄32'35	2.37989 AU
	15343 Jun 04 08:32	30°♈3			15348 Aug 31 04:44	0°♁	
min. Earth dist.	15343 Jun 22 21:37	25°♄20'21	0.45526 AU				
greatest brilliancy	15343 Jun 30 02:31	22°♄50'18	-2.4m	conjunction	15348 Sep 26 06:48	20°♁28'23	0°50'17
opposition	15343 Jul 01 05:54	22°♄26'22	4°01'17	minimum elong	15348 Sep 26 02:55	20°♁20'42	0°50'28
direct	15343 Aug 03 00:04	15°♄47'49			15348 Oct 08 07:32	0°♌	
desc. node	15343 Sep 14 21:39	25°♄21'48			15348 Nov 15 03:43	0°♊	
	15343 Sep 26 03:04	0°≈		morning rise	15348 Dec 10 03:40	19°♊35'58	
	15343 Nov 23 15:39	0°♈			15348 Dec 23 14:39	0°♄	
	15344 Jan 14 09:55	0°♑			15349 Feb 01 12:58	0°≈	
	15344 Mar 04 00:13	0°♉			15349 Mar 15 18:31	0°♈	
	15344 Apr 20 23:20	0°♊			15349 Apr 30 06:34	0°♑	
evening set	15344 Apr 27 16:11	4°♊16'50		desc. node	15349 May 07 06:09	4°♑21'33	
max. Earth dist.	15344 May 21 22:12	19°♊58'04	2.62295 AU		15349 Jun 20 08:51	0°♉	
	15344 Jun 06 03:55	0°♊		retrograde	15349 Sep 15 23:54	29°♉49'32	
conjunction	15344 Jun 11 13:08	3°♊34'43	-1°01'54	opposition	15349 Oct 26 10:35	20°♉16'34	-4°42'07
minimum elong	15344 Jun 11 14:22	3°♊36'46	1°02'50	greatest brilliancy	15349 Oct 26 15:00	20°♉12'13	-1.2m
	15344 Jul 20 10:19	0°♊		min. Earth dist.	15349 Oct 27 20:05	19°♉43'37	0.68417 AU
morning rise	15344 Jul 28 21:20	5°♊53'16		direct	15349 Dec 06 23:01	10°♉19'30	
	15344 Aug 31 18:42	0°♊			15350 Feb 12 09:41	0°♊	
asc. node	15344 Oct 05 04:15	25°♊19'21			15350 Apr 07 00:52	0°♊	
	15344 Oct 11 09:55	0°♊		asc. node	15350 May 22 12:07	0°♊	
	15344 Nov 19 18:34	0°♊			15350 May 27 07:33	3°♊21'38	
	15344 Dec 28 14:14	0°♊			15350 Jul 03 00:34	0°♊	
	15345 Feb 05 23:02	0°♊			15350 Aug 11 04:55	0°♊	
	15345 Mar 19 14:54	0°≈		evening set	15350 Sep 18 05:00	0°♊	
	15345 May 06 20:17	0°♈			15350 Oct 03 10:28	12°♊05'44	
retrograde	15345 Jul 08 22:43	20°♈22'10			15350 Oct 26 01:31	0°♊	
desc. node	15345 Aug 02 05:34	16°♈16'47			15350 Dec 03 16:33	0°♄	
min. Earth dist.	15345 Aug 11 12:49	12°♈56'31	0.58785 AU	conjunction	15350 Dec 13 21:57	7°♄46'07	0°55'56
opposition	15345 Aug 17 17:16	10°♈31'55	-0°41'41	minimum elong	15350 Dec 14 01:00	7°♄51'53	0°56'51
greatest brilliancy	15345 Aug 17 12:55	10°♈36'08	-1.7m		15351 Jan 12 20:32	0°≈	
direct	15345 Sep 24 02:52	2°♈03'04		max. Earth dist.	15351 Jan 31 03:47	13°≈11'21	2.46145 AU
	15345 Dec 18 16:38	0°♑		morning rise	15351 Feb 13 15:02	22°≈41'59	
	15346 Feb 11 12:23	0°♉			15351 Feb 24 03:10	0°♈	
	15346 Apr 02 05:14	0°♊		desc. node	15351 Mar 24 19:21	19°♈25'22	
	15346 May 18 18:20	0°♊			15351 Apr 09 21:23	0°♑	
evening set	15346 Jun 04 23:26	11°♊33'47			15351 May 27 14:42	0°♉	
max. Earth dist.	15346 Jun 20 09:02	22°♊07'37	2.51648 AU		15351 Jul 18 22:58	0°♊	
	15346 Jul 01 15:44	0°♊			15351 Sep 27 15:26	0°♊	
conjunction	15346 Jul 25 14:37	17°♊05'32	-0°18'48	retrograde	15351 Oct 23 00:47	3°♊25'08	
minimum elong	15346 Jul 25 15:43	17°♊07'30	0°19'29		15351 Nov 15 10:05	30°♊11	
	15346 Aug 12 05:58	0°♊		opposition	15351 Nov 30 18:28	24°♊39'40	-4°42'31
asc. node	15346 Aug 22 16:19	7°♊45'20		greatest brilliancy	15351 Dec 01 15:46	24°♊19'08	-1.5m
	15346 Sep 21 00:03	0°♊		min. Earth dist.	15351 Dec 06 01:15	22°♊37'37	0.63048 AU
morning rise	15346 Sep 22 09:45	1°♊04'48		direct	15352 Jan 10 23:45	14°♊41'18	
	15346 Oct 29 12:54	0°♊			15352 Mar 06 14:31	0°♊	
	15346 Dec 06 15:22	0°♊		asc. node	15352 Apr 13 11:55	20°♊49'33	
	15347 Jan 14 05:26	0°♄			15352 Apr 28 00:13	0°♊	
	15347 Feb 23 08:38	0°≈			15352 Jun 10 06:05	0°♊	
	15347 Apr 07 10:39	0°♈			15352 Jul 20 00:25	0°♁	
	15347 May 26 10:54	0°♑			15352 Aug 27 08:13	0°♌	
desc. node	15347 Jun 20 09:38	12°♑37'57			15352 Oct 04 13:33	0°♊	
retrograde	15347 Aug 13 21:34	27°♑08'49		evening set	15352 Nov 12 16:32	0°♄	
min. Earth dist.	15347 Sep 21 06:17	18°♑10'09	0.66921 AU		15352 Dec 13 07:47	22°♄31'09	
opposition	15347 Sep 23 17:59	17°♑11'02	-3°23'54		15352 Dec 23 10:25	0°≈	
greatest brilliancy	15347 Sep 23 09:23	17°♑19'33	-1.3m		15353 Feb 04 04:53	0°♈	
direct	15347 Nov 02 23:50	7°♑43'27		conjunction	15353 Feb 07 11:02	2°♈13'30	0°00'33
	15348 Jan 16 07:55	0°♉		minimum elong	15353 Feb 07 11:04	2°♈13'34	0°01'05
	15348 Mar 11 12:42	0°♊		behind sun begin	15353 Feb 06 13:24	1°♈36'38	
	15348 Apr 28 13:24	0°♊		behind sun end	15353 Feb 08 08:43	2°♈50'28	
	15348 Jun 11 15:33	0°♊		desc. node	15353 Feb 08 07:58	2°♈49'12	
asc. node	15348 Jul 09 08:22	19°♊56'42		max. Earth dist.	15353 Mar 06 01:15	20°♈06'48	2.58762 AU
	15348 Jul 22 22:05	0°♊			15353 Mar 21 01:21	0°♑	
evening set	15348 Jul 23 06:33	0°♊15'50		morning rise	15353 Mar 28 20:28	5°♑04'54	

	15353 May 06 20:45	0°♄	direct	15358 Jul 06 10:27	21°♄54'34	
	15353 Jun 24 14:59	0°♂		15358 Aug 13 14:49	0°♄	
	15353 Aug 15 05:09	0°♄	desc. node	15358 Oct 01 08:00	23°♄16'28	
	15353 Oct 13 23:11	0°♂		15358 Oct 13 11:27	0°♄	
retrograde	15353 Dec 07 14:38	13°♂41'10		15358 Dec 03 20:08	0°♄	
opposition	15354 Jan 11 23:18	6°♂20'09 -2°35'25		15359 Jan 22 09:36	0°♄	
greatest brilliancy	15354 Jan 12 21:10	6°♂00'32 -2.1m		15359 Mar 12 02:02	0°♄	
min. Earth dist.	15354 Jan 20 10:44	3°♂18'38 0.51300 AU	evening set	15359 Apr 14 22:01	21°♄13'18	
	15354 Jan 31 02:14	30°♄		15359 Apr 28 17:33	0°♂	
direct	15354 Feb 19 13:21	27°♄21'57	max. Earth dist.	15359 May 13 08:43	9°♂23'08 2.65090 AU	
asc. node	15354 Mar 01 19:38	28°♄04'48				
	15354 Mar 11 14:16	0°♂	conjunction	15359 May 28 21:48	19°♂27'39 -1°09'36	
	15354 May 12 15:43	0°♄	minimum elong	15359 May 28 22:30	19°♂28'48 1°10'30	
	15354 Jun 24 23:20	0°♄		15359 Jun 13 23:17	0°♄	
	15354 Aug 03 22:12	0°♄	morning rise	15359 Jul 13 02:53	19°♄29'12	
	15354 Sep 12 08:21	0°♄		15359 Jul 28 12:59	0°♂	
	15354 Oct 22 14:54	0°♄		15359 Sep 09 08:31	0°♄	
	15354 Dec 03 11:43	0°♄		15359 Oct 20 12:54	0°♄	
desc. node	15354 Dec 27 01:46	16°♄20'08	asc. node	15359 Oct 22 22:51	1°♄47'32	
	15355 Jan 16 05:29	0°♄		15359 Nov 29 10:55	0°♄	
evening set	15355 Feb 01 00:54	10°♄33'01		15360 Jan 07 20:30	0°♄	
	15355 Mar 02 16:40	0°♄		15360 Feb 17 00:41	0°♄	
				15360 Mar 31 14:36	0°♄	
conjunction	15355 Mar 20 11:37	11°♄29'26 -0°45'28		15360 May 31 03:49	0°♄	
minimum elong	15355 Mar 20 10:19	11°♄27'20 0°45'32	retrograde	15360 Jun 23 02:36	3°♄28'22	
max. Earth dist.	15355 Mar 30 17:31	18°♄03'41 2.66371 AU		15360 Jul 15 03:56	30°♄	
	15355 Apr 18 11:11	0°♄	min. Earth dist.	15360 Jul 24 10:41	26°♄49'07 0.53996 AU	
morning rise	15355 May 03 17:38	9°♄40'12	opposition	15360 Jul 31 20:38	23°♄59'58 0°52'14	
	15355 Jun 05 01:06	0°♂	greatest brilliancy	15360 Jul 31 14:58	24°♄05'21 -2.0m	
	15355 Jul 23 03:04	0°♄	desc. node	15360 Aug 18 17:34	18°♄13'22	
	15355 Sep 09 20:14	0°♂	direct	15360 Sep 05 15:34	16°♄06'33	
	15355 Oct 30 05:09	0°♄		15360 Oct 30 11:48	0°♄	
	15355 Dec 26 15:40	0°♄		15360 Dec 29 11:25	0°♄	
asc. node	15356 Jan 18 03:10	8°♄22'59		15361 Feb 19 12:12	0°♄	
retrograde	15356 Feb 14 15:08	12°♄46'54		15361 Apr 09 08:24	0°♂	
opposition	15356 Mar 15 18:31	7°♄39'30 4°03'15	evening set	15361 May 20 06:23	26°♄24'22	
greatest brilliancy	15356 Mar 16 10:12	7°♄28'25 -2.9m		15361 May 25 16:37	0°♄	
min. Earth dist.	15356 Mar 20 20:31	6°♄13'50 0.38116 AU	max. Earth dist.	15361 Jun 07 15:43	8°♄40'36 2.56386 AU	
direct	15356 Apr 16 06:13	1°♄54'03				
	15356 Jun 28 22:35	0°♄	conjunction	15361 Jul 06 21:12	28°♄44'03 -0°39'48	
	15356 Aug 14 00:51	0°♄	minimum elong	15361 Jul 06 22:49	28°♄46'51 0°40'38	
	15356 Sep 27 02:31	0°♄		15361 Jul 08 16:40	0°♂	
	15356 Nov 10 15:57	0°♄		15361 Aug 19 12:58	0°♄	
desc. node	15356 Nov 13 01:31	1°♄35'41	morning rise	15361 Aug 28 21:38	6°♄54'17	
	15356 Dec 26 08:39	0°♄	asc. node	15361 Sep 08 13:27	14°♄51'05	
	15357 Feb 11 02:28	0°♄		15361 Sep 28 14:06	0°♄	
evening set	15357 Mar 10 19:15	17°♄34'42		15361 Nov 06 09:07	0°♄	
	15357 Mar 30 10:21	0°♄		15361 Dec 14 16:12	0°♄	
max. Earth dist.	15357 Apr 21 02:07	13°♄42'38 2.68486 AU		15362 Jan 22 10:22	0°♄	
				15362 Mar 03 20:41	0°♄	
conjunction	15357 Apr 23 20:20	15°♄27'36 -1°09'50		15362 Apr 16 21:05	0°♄	
minimum elong	15357 Apr 23 19:39	15°♄26'30 1°10'26		15362 Jun 09 07:56	0°♄	
	15357 May 16 17:32	0°♂	desc. node	15362 Jul 06 23:14	10°♄19'32	
morning rise	15357 Jun 05 20:19	12°♄51'11	retrograde	15362 Jul 31 10:15	13°♄52'32	
	15357 Jul 02 11:11	0°♄	min. Earth dist.	15362 Sep 06 02:08	5°♄26'42 0.64503 AU	
	15357 Aug 17 07:14	0°♂	opposition	15362 Sep 10 01:43	3°♄52'17 -2°32'47	
	15357 Oct 01 01:50	0°♄	greatest brilliancy	15362 Sep 09 15:40	4°♄02'13 -1.4m	
	15357 Nov 13 20:17	0°♄		15362 Sep 20 08:25	30°♄	
asc. node	15357 Dec 05 04:41	14°♄48'17	direct	15362 Oct 19 09:50	24°♄43'26	
	15357 Dec 27 02:33	0°♄		15362 Nov 20 12:10	0°♄	
	15358 Feb 09 17:54	0°♄		15363 Jan 27 09:53	0°♄	
	15358 Apr 08 11:28	0°♄		15363 Mar 20 14:52	0°♂	
retrograde	15358 May 03 14:53	4°♄18'27		15363 May 06 21:34	0°♄	
	15358 May 28 21:28	30°♄		15363 Jun 19 20:42	0°♂	
min. Earth dist.	15358 May 29 11:39	29°♄49'24 0.40353 AU	evening set	15363 Jul 02 22:03	9°♄17'19	
greatest brilliancy	15358 Jun 04 09:21	28°♄00'12 -2.7m	max. Earth dist.	15363 Jul 17 03:29	19°♄35'56 2.43318 AU	
opposition	15358 Jun 05 20:08	27°♄33'07 6°09'38	asc. node	15363 Jul 27 03:13	26°♄57'16	

	15363 Jul 31 05:38	0°♎			15368 Aug 26 07:06	0°♏
				retrograde	15368 Nov 17 16:04	26°♏51'44
conjunction	15363 Aug 30 00:50	22°♎33'32 0°23'19		opposition	15368 Dec 24 14:34	18°♏51'16 -3°47'04
minimum elong	15363 Aug 29 22:55	22°♎29'52 0°23'04		greatest brilliancy	15368 Dec 25 16:40	18°♏26'53 -1.8m
	15363 Sep 08 16:15	0°♏		min. Earth dist.	15369 Jan 01 01:26	16°♏04'54 0.56551 AU
	15363 Oct 16 22:17	0°♎		direct	15369 Feb 02 14:57	9°♏17'29
morning rise	15363 Nov 08 12:02	17°♎52'42		asc. node	15369 Mar 18 08:21	20°♏00'13
	15363 Nov 23 19:52	0°♎			15369 Apr 07 13:46	0°♏
	15364 Jan 01 06:35	0°♏			15369 May 25 05:25	0°♎
	15364 Feb 10 04:27	0°♎			15369 Jul 05 08:18	0°♏
	15364 Mar 23 13:08	0°♎			15369 Aug 13 08:31	0°♎
	15364 May 08 18:45	0°♎			15369 Sep 21 02:50	0°♎
desc. node	15364 May 23 22:00	9°♎02'19			15369 Oct 30 19:10	0°♏
	15364 Jul 02 08:52	0°♎			15369 Dec 11 02:42	0°♎
retrograde	15364 Sep 02 15:36	17°♎28'50		desc. node	15370 Jan 12 17:35	22°♎44'35
opposition	15364 Oct 13 10:07	7°♎43'30 -4°20'39		evening set	15370 Jan 14 13:35	23°♎59'53
greatest brilliancy	15364 Oct 13 08:21	7°♎45'14 -1.2m			15370 Jan 23 09:10	0°♎
min. Earth dist.	15364 Oct 13 06:59	7°♎46'35 0.68646 AU				
	15364 Nov 05 09:36	30°♎		conjunction	15370 Mar 05 13:26	27°♎24'12 -0°30'01
direct	15364 Nov 23 15:09	27°♎55'01		minimum elong	15370 Mar 05 12:20	27°♎22'25 0°29'51
	15364 Dec 13 01:11	0°♎			15370 Mar 09 12:49	0°♎
	15365 Feb 24 01:44	0°♎		max. Earth dist.	15370 Mar 21 17:07	7°♎54'31 2.64043 AU
	15365 Apr 15 12:59	0°♏		morning rise	15370 Apr 20 05:57	26°♎50'05
	15365 May 30 06:47	0°♏			15370 Apr 25 05:41	0°♎
asc. node	15365 Jun 12 22:03	9°♏40'17			15370 Jun 12 02:56	0°♎
	15365 Jul 10 15:25	0°♎			15370 Jul 31 03:37	0°♏
	15365 Aug 18 20:03	0°♏			15370 Sep 20 03:29	0°♏
evening set	15365 Sep 02 09:00	11°♏24'19			15370 Nov 16 10:36	0°♎
	15365 Sep 25 20:41	0°♎		retrograde	15371 Jan 15 03:59	16°♎26'17
	15365 Nov 02 16:22	0°♎		asc. node	15371 Feb 03 15:25	14°♎02'05
				opposition	15371 Feb 16 06:21	10°♎25'49 0°49'58
conjunction	15365 Nov 14 14:35	9°♎22'36 1°07'13		greatest brilliancy	15371 Feb 16 12:26	10°♎20'59 -2.6m
minimum elong	15365 Nov 14 15:24	9°♎24'12 1°08'02		min. Earth dist.	15371 Feb 24 07:34	7°♎52'36 0.42597 AU
	15365 Dec 11 04:52	0°♏		direct	15371 Mar 23 03:44	3°♎10'26
max. Earth dist.	15366 Jan 07 12:39	20°♏38'14 2.40390 AU			15371 Jun 01 22:12	0°♏
	15366 Jan 20 05:14	0°♎			15371 Jul 16 13:19	0°♎
morning rise	15366 Jan 22 11:44	1°♎39'34			15371 Aug 27 06:07	0°♎
	15366 Mar 03 09:12	0°♎			15371 Oct 08 03:06	0°♏
desc. node	15366 Apr 10 14:49	25°♎41'19			15371 Nov 20 06:25	0°♎
	15366 Apr 17 06:10	0°♎		desc. node	15371 Nov 30 15:20	7°♎03'13
	15366 Jun 04 18:08	0°♎			15372 Jan 03 23:44	0°♎
	15366 Jul 30 10:42	0°♎			15372 Feb 19 02:43	0°♎
retrograde	15366 Oct 07 22:14	20°♎08'36		evening set	15372 Feb 25 10:48	4°♎04'02
opposition	15366 Nov 16 12:15	11°♎01'18 -4°53'04			15372 Apr 06 03:34	0°♎
greatest brilliancy	15366 Nov 17 03:18	10°♎46'38 -1.3m				
min. Earth dist.	15366 Nov 20 06:56	9°♎33'02 0.65959 AU		conjunction	15372 Apr 10 08:58	2°♎40'49 -1°03'10
direct	15366 Dec 28 01:38	0°♎58'59		minimum elong	15372 Apr 10 07:53	2°♎39'06 1°03'35
	15367 Mar 21 09:46	0°♏		max. Earth dist.	15372 Apr 12 11:48	4°♎01'26 2.68333 AU
asc. node	15367 May 01 00:51	24°♏57'58		morning rise	15372 May 23 11:18	29°♎59'33
	15367 May 08 13:44	0°♏			15372 May 23 11:35	0°♎
	15367 Jun 19 20:12	0°♎			15372 Jul 09 14:53	0°♏
	15367 Jul 29 06:23	0°♏			15372 Aug 25 06:55	0°♏
	15367 Sep 05 09:35	0°♎			15372 Oct 10 10:53	0°♎
	15367 Oct 13 10:06	0°♎			15372 Nov 25 11:24	0°♏
evening set	15367 Nov 19 05:39	28°♎26'09		asc. node	15372 Dec 21 20:43	16°♏56'01
	15367 Nov 21 07:07	0°♏			15373 Jan 11 23:03	0°♎
	15367 Dec 31 18:14	0°♎			15373 Mar 14 22:22	0°♎
				retrograde	15373 Apr 05 21:47	3°♎12'44
conjunction	15368 Jan 20 00:35	13°♎47'04 0°22'47			15373 Apr 28 12:32	30°♎
minimum elong	15368 Jan 20 01:58	13°♎49'32 0°23'30		min. Earth dist.	15373 May 02 18:28	28°♎52'34 0.36928 AU
	15368 Feb 12 06:31	0°♎		opposition	15373 May 06 09:07	27°♎53'18 7°15'21
max. Earth dist.	15368 Feb 23 08:33	7°♎34'32 2.54354 AU		greatest brilliancy	15373 May 05 12:25	28°♎07'29 -3.0m
desc. node	15368 Feb 26 03:32	9°♎28'05		direct	15373 Jun 04 10:53	23°♎00'27
morning rise	15368 Mar 13 02:26	20°♎10'16			15373 Jul 08 19:44	0°♎
	15368 Mar 28 00:04	0°♎			15373 Sep 06 04:04	0°♏
	15368 May 14 00:05	0°♎		desc. node	15373 Oct 17 19:18	25°♏10'06
	15368 Jul 02 15:54	0°♎			15373 Oct 25 14:53	0°♎

	15373 Dec 12 19:47	0° H			15378 Sep 16 02:53	0° L		
	15374 Jan 29 23:14	0° Y		morning rise	15378 Oct 08 03:50	17° L 07'38		
	15374 Mar 18 23:47	0° B			15378 Oct 24 13:15	0° M		
evening set	15374 Apr 01 09:08	8° B 25'00			15378 Dec 01 13:34	0° Z		
max. Earth dist.	15374 May 04 13:58	29° B 27'27	2.67079 AU	greatest brilliancy	15378 Dec 08 07:15	5° Z 17'50	1.2m	
	15374 May 05 10:22	0° II			15379 Jan 09 01:43	0° Z		
					15379 Feb 18 01:36	0° \approx		
conjunction	15374 May 15 00:01	6° II 07'28	-1°12'52		15379 Apr 01 18:08	0° H		
minimum elong	15374 May 15 00:08	6° II 07'40	1°13'41		15379 May 19 07:56	0° Y		
	15374 Jun 20 19:24	0° E		desc. node	15379 Jun 10 14:42	12° Y 16'22		
morning rise	15374 Jun 27 20:33	4° E 38'09			15379 Jul 22 09:08	0° B		
	15374 Aug 04 18:58	0° Q		retrograde	15379 Aug 21 10:56	4° B 58'17		
	15374 Sep 17 05:18	0° M			15379 Sep 18 07:05	30° R Y		
	15374 Oct 29 03:34	0° L		min. Earth dist.	15379 Sep 29 16:31	25° Y 43'17	0.67820 AU	
asc. node	15374 Nov 08 18:20	7° L 44'58		opposition	15379 Oct 01 08:11	25° Y 04'02	-3°48'17	
	15374 Dec 08 21:21	0° M		greatest brilliancy	15379 Oct 01 01:29	25° Y 10'40	-1.3m	
	15375 Jan 18 06:26	0° Z		direct	15379 Nov 10 23:52	15° Y 28'00		
	15375 Mar 01 02:34	0° Z			15380 Jan 07 05:15	0° B		
	15375 Apr 19 07:09	0° \approx			15380 Mar 05 16:16	0° II		
retrograde	15375 Jun 06 10:14	13° \approx 52'18			15380 Apr 23 10:54	0° E		
min. Earth dist.	15375 Jul 05 08:46	8° \approx 05'21	0.48581 AU		15380 Jun 06 18:47	0° Q		
opposition	15375 Jul 13 14:48	5° \approx 05'49	2°47'16	asc. node	15380 Jun 29 14:58	16° Q 21'33		
greatest brilliancy	15375 Jul 12 19:20	5° \approx 23'29	-2.2m		15380 Jul 18 02:27	0° M		
	15375 Jul 30 01:19	30° R Z		evening set	15380 Aug 05 20:26	14° M 10'16		
direct	15375 Aug 16 11:33	27° Z 57'48			15380 Aug 26 08:41	0° L		
	15375 Sep 04 02:24	0° \approx			15380 Oct 03 10:40	0° M		
desc. node	15375 Sep 05 03:18	0° \approx 13'14		max. Earth dist.	15380 Oct 09 10:28	4° M 45'33	2.36144 AU	
	15375 Nov 15 22:36	0° H						
	15376 Jan 08 16:31	0° Y		conjunction	15380 Oct 13 16:59	8° M 09'12	1°01'23	
	15376 Feb 28 00:27	0° B		minimum elong	15380 Oct 13 13:40	8° M 02'37	1°01'50	
	15376 Apr 16 06:25	0° II			15380 Nov 10 06:08	0° Z		
evening set	15376 May 05 16:37	12° II 26'26			15380 Dec 18 16:47	0° Z		
max. Earth dist.	15376 May 27 17:15	26° II 49'32	2.60404 AU	morning rise	15380 Dec 27 01:43	6° Z 24'18		
	15376 Jun 01 12:21	0° E			15381 Jan 27 14:43	0° \approx		
					15381 Mar 10 17:57	0° H		
conjunction	15376 Jun 20 07:38	12° E 35'42	-0°55'17		15381 Apr 24 21:46	0° Y		
minimum elong	15376 Jun 20 09:06	12° E 38'11	0°56'12	desc. node	15381 Apr 27 08:30	1° Y 33'27		
	15376 Jul 15 16:47	0° Q			15381 Jun 13 16:56	0° B		
morning rise	15376 Aug 08 07:00	16° Q 36'47			15381 Aug 16 02:57	0° II		
	15376 Aug 26 21:02	0° M		retrograde	15381 Sep 23 18:41	7° II 27'41		
asc. node	15376 Sep 25 08:25	21° M 45'32			15381 Oct 28 23:08	30° R B		
	15376 Oct 06 07:22	0° L		opposition	15381 Nov 02 23:51	28° B 02'55	-4°49'43	
	15376 Nov 14 11:01	0° M		greatest brilliancy	15381 Nov 03 08:03	27° B 54'53	-1.3m	
	15376 Dec 23 01:26	0° Z		min. Earth dist.	15381 Nov 05 05:48	27° B 10'02	0.67824 AU	
	15377 Jan 31 03:16	0° Z		direct	15381 Dec 14 14:40	18° B 02'48		
	15377 Mar 13 03:50	0° \approx			15382 Feb 02 11:47	0° II		
	15377 Apr 28 01:50	0° H			15382 Mar 31 21:54	0° E		
retrograde	15377 Jul 17 08:29	29° H 36'06		asc. node	15382 May 17 14:09	0° Q 17'42		
desc. node	15377 Jul 23 11:46	29° H 20'29			15382 May 17 03:53	0° Q		
min. Earth dist.	15377 Aug 21 02:03	21° H 47'56	0.61061 AU		15382 Jun 27 22:13	0° M		
opposition	15377 Aug 26 12:34	19° H 39'59	-1°27'26		15382 Aug 06 04:45	0° L		
greatest brilliancy	15377 Aug 26 04:38	19° H 47'45	-1.6m		15382 Sep 13 05:58	0° M		
direct	15377 Oct 03 16:38	10° H 55'12		greatest brilliancy	15382 Sep 24 14:40	9° M 01'08	1.1m	
	15377 Dec 10 03:05	0° Y		evening set	15382 Oct 21 00:42	29° M 54'26		
	15378 Feb 05 17:48	0° B			15382 Oct 21 03:32	0° Z		
	15378 Mar 28 05:01	0° II			15382 Nov 28 19:57	0° Z		
	15378 May 14 00:15	0° E						
evening set	15378 Jun 14 12:18	21° E 19'43		conjunction	15382 Dec 28 09:19	22° Z 10'42	0°45'00	
	15378 Jun 26 22:42	0° Q		minimum elong	15382 Dec 28 12:09	22° Z 15'54	0°45'52	
max. Earth dist.	15378 Jun 28 16:11	1° Q 13'03	2.48781 AU		15383 Jan 08 01:27	0° \approx		
				max. Earth dist.	15383 Feb 09 12:25	23° \approx 09'41	2.49211 AU	
conjunction	15378 Aug 06 08:47	29° Q 10'54	-0°04'31		15383 Feb 19 08:39	0° H		
minimum elong	15378 Aug 06 09:06	29° Q 11'28	0°05'04	morning rise	15383 Feb 24 13:50	3° H 35'18		
behind sun begin	15378 Aug 05 10:02	28° Q 28'51		desc. node	15383 Mar 14 22:13	16° H 01'49		
behind sun end	15378 Aug 07 08:09	29° Q 54'08			15383 Apr 05 01:01	0° Y		
	15378 Aug 07 11:19	0° M			15383 May 22 09:27	0° B		
asc. node	15378 Aug 12 21:27	4° M 01'50			15383 Jul 12 10:56	0° II		

	15383 Sep 11 08:40	0°☿		15388 Aug 04 16:35	0°♊	
retrograde	15383 Nov 01 03:42	11°☿52'19		15388 Sep 20 00:32	0°♊	
opposition	15383 Dec 09 08:15	3°☿20'59 -4°28'33	desc. node	15388 Nov 03 06:51	29°♊03'18	
greatest brilliancy	15383 Dec 10 08:15	2°☿58'04 -1.6m		15388 Nov 04 17:35	0°♊	
min. Earth dist.	15383 Dec 15 10:52	1°☿01'13 0.60984 AU		15388 Dec 21 02:25	0°♊	
	15383 Dec 18 04:51	30°♋♊		15389 Feb 06 06:00	0°♊	
direct	15384 Jan 19 06:20	23°♊28'11	evening set	15389 Mar 18 18:04	25°♊33'51	
	15384 Feb 22 06:11	0°☿		15389 Mar 25 18:51	0°♋	
asc. node	15384 Apr 03 20:23	19°☿41'21	max. Earth dist.	15389 Apr 26 01:33	19°♋47'15 2.68223 AU	
	15384 Apr 21 02:05	0°♌				
	15384 Jun 04 09:06	0°♍	conjunction	15389 May 01 12:12	23°♋14'42 -1°12'07	
	15384 Jul 14 12:11	0°♌	minimum elong	15389 May 01 11:47	23°♋14'03 1°12'47	
	15384 Aug 22 00:34	0°♍		15389 May 12 02:48	0°♊	
	15384 Sep 29 09:23	0°♊	morning rise	15389 Jun 13 15:48	20°♊53'03	
	15384 Nov 07 16:01	0°♋		15389 Jun 27 17:09	0°☿	
	15384 Dec 18 13:43	0°♌		15389 Aug 12 05:08	0°♌	
evening set	15384 Dec 25 19:51	5°♌10'41		15389 Sep 25 10:41	0°♍	
desc. node	15385 Jan 29 11:30	29°♌19'26		15389 Nov 07 10:10	0°♌	
	15385 Jan 30 11:15	0°♋	asc. node	15389 Nov 25 10:51	12°♌48'17	
				15389 Dec 19 12:08	0°♍	
conjunction	15385 Feb 17 09:31	12°♋07'50 -0°11'27		15390 Jan 30 20:49	0°♊	
minimum elong	15385 Feb 17 09:00	12°♋06'58 0°11'04		15390 Mar 18 11:32	0°♋	
behind sun begin	15385 Feb 16 17:43	11°♋41'22	retrograde	15390 May 16 20:50	20°♋13'15	
behind sun end	15385 Feb 18 00:16	12°♋32'34	min. Earth dist.	15390 Jun 12 14:22	15°♋19'13 0.43096 AU	
max. Earth dist.	15385 Mar 12 00:49	27°♋08'58 2.60881 AU	greatest brilliancy	15390 Jun 19 09:12	13°♋04'13 -2.6m	
	15385 Mar 16 09:10	0°♊	opposition	15390 Jun 20 17:24	12°♋37'16 4°59'11	
morning rise	15385 Apr 06 05:09	13°♊30'44	direct	15390 Jul 22 12:22	6°♋25'06	
	15385 May 02 02:17	0°♋	desc. node	15390 Sep 21 15:12	24°♋03'41	
	15385 Jun 19 10:50	0°♊		15390 Oct 03 18:48	0°♌	
	15385 Aug 08 21:09	0°☿		15390 Nov 27 09:01	0°♋	
	15385 Oct 03 00:23	0°♌		15391 Jan 17 01:38	0°♊	
retrograde	15385 Dec 20 06:19	24°♌46'07		15391 Mar 07 05:57	0°♋	
opposition	15386 Jan 23 13:19	17°♌51'12 -1°35'52	evening set	15391 Apr 22 17:29	29°♋08'08	
greatest brilliancy	15386 Jan 24 04:08	17°♌38'22 -2.3m		15391 Apr 24 02:04	0°♊	
min. Earth dist.	15386 Feb 01 07:15	14°♌49'51 0.48190 AU	max. Earth dist.	15391 May 18 18:44	15°♊52'45 2.63653 AU	
asc. node	15386 Feb 20 05:22	10°♌03'15				
direct	15386 Mar 02 02:15	9°♌21'45	conjunction	15391 Jun 06 03:08	27°♊52'58 -1°05'44	
	15386 May 02 09:53	0°♍	minimum elong	15391 Jun 06 04:09	27°♊54'39 1°06'39	
	15386 Jun 17 14:10	0°♌		15391 Jun 09 08:04	0°☿	
	15386 Jul 28 11:54	0°♍	morning rise	15391 Jul 22 09:44	29°☿03'18	
	15386 Sep 06 10:54	0°♊		15391 Jul 23 18:39	0°♌	
	15386 Oct 17 03:08	0°♋		15391 Sep 04 08:49	0°♍	
	15386 Nov 28 08:14	0°♌	asc. node	15391 Oct 13 04:31	28°♍27'00	
desc. node	15386 Dec 17 05:02	13°♌00'39		15391 Oct 15 06:22	0°♌	
	15387 Jan 11 08:31	0°♋		15391 Nov 23 21:02	0°♍	
evening set	15387 Feb 10 06:20	19°♋45'33		15392 Jan 01 21:58	0°♊	
	15387 Feb 26 00:13	0°♊		15392 Feb 10 13:01	0°♋	
				15392 Mar 23 18:14	0°♌	
conjunction	15387 Mar 28 14:43	19°♊40'06 -0°53'01		15392 May 13 13:20	0°♋	
minimum elong	15387 Mar 28 13:25	19°♊38'03 0°53'13	retrograde	15392 Jul 02 06:50	13°♋50'00	
max. Earth dist.	15387 Apr 04 19:53	24°♊16'13 2.67317 AU	min. Earth dist.	15392 Aug 03 21:19	6°♋44'45 0.56738 AU	
	15387 Apr 13 20:08	0°♋	desc. node	15392 Aug 08 23:45	4°♋46'46	
morning rise	15387 May 11 07:10	17°♋23'14	opposition	15392 Aug 10 16:10	4°♋07'42 -0°04'42	
	15387 May 31 07:03	0°♊	greatest brilliancy	15387 Jul 17 03:51	29°♊29'05 1.5m	
	15387 Jul 17 23:31	0°☿		15392 Aug 22 04:38	30°♋	
	15387 Sep 03 19:30	0°♌	direct	15392 Sep 16 09:52	25°♌53'32	
	15387 Oct 22 04:59	0°♍		15392 Oct 13 23:47	0°♋	
	15387 Dec 12 00:25	0°♌		15392 Dec 22 14:45	0°♊	
asc. node	15388 Jan 08 10:59	14°♌20'44		15393 Feb 14 03:22	0°♋	
	15388 Feb 26 13:00	0°♍		15393 Apr 04 11:43	0°♊	
retrograde	15388 Mar 04 09:33	0°♍18'08		15393 May 20 23:49	0°☿	
	15388 Mar 11 04:27	30°♋♌	evening set	15393 May 29 01:00	5°☿22'05	
opposition	15388 Apr 02 19:04	25°♌26'26 5°48'13	max. Earth dist.	15393 Jun 14 15:59	16°☿37'26 2.53852 AU	
greatest brilliancy	15388 Apr 03 03:49	25°♌20'36 -3.0m		15393 Jul 03 23:38	0°♌	
min. Earth dist.	15388 Apr 05 02:48	24°♌49'17 0.36729 AU				
direct	15388 May 02 17:41	20°♌19'31	conjunction	15393 Jul 17 04:12	9°♌18'59 -0°28'23	
	15388 Jun 11 16:03	0°♍	minimum elong	15393 Jul 17 05:36	9°♌21'30 0°29'09	

	15393 Aug 14 17:41	0°♎		direct	15399 Jan 04 23:05	9°♊11'07	
asc. node	15393 Aug 29 17:06	11°♎06'52			15399 Mar 13 05:43	0°♌	
morning rise	15393 Sep 11 03:32	20°♎28'25		asc. node	15399 Apr 21 09:37	22°♌45'29	
	15393 Sep 23 15:43	0°♌			15399 May 02 13:38	0°♍	
	15393 Nov 01 07:49	0°♍			15399 Jun 14 09:56	0°♎	
	15393 Dec 09 12:10	0°♏			15399 Jul 24 01:10	0°♌	
	15394 Jan 17 03:07	0°♐			15399 Aug 31 07:00	0°♍	
	15394 Feb 26 07:36	0°♑			15399 Oct 08 09:34	0°♏	
	15394 Apr 10 15:03	0°♒			15399 Nov 16 08:43	0°♐	
	15394 May 30 20:10	0°♑		evening set	15399 Dec 03 20:47	13°♐06'51	
desc. node	15394 Jun 27 04:45	12°♑42'45			15399 Dec 26 22:13	0°♑	
retrograde	15394 Aug 08 03:43	22°♑03'02					
min. Earth dist.	15394 Sep 14 19:19	13°♑18'33	0.65962 AU	conjunction	15400 Jan 31 08:43	25°♑04'01	0°09'48
opposition	15394 Sep 17 23:05	12°♑03'37	-3°04'30	minimum elong	15400 Jan 31 09:17	25°♑04'59	0°10'23
greatest brilliancy	15394 Sep 17 13:25	12°♑13'11	-1.4m	behind sun begin	15400 Jan 30 15:54	24°♑34'54	
direct	15394 Oct 27 20:09	2°♑43'49		behind sun end	15400 Feb 01 02:39	25°♑35'03	
	15395 Jan 20 08:42	0°♒			15400 Feb 07 12:19	0°♒	
	15395 Mar 15 05:11	0°♊		desc. node	15400 Feb 16 04:58	5°♒56'37	
	15395 May 01 23:22	0°♌		max. Earth dist.	15400 Mar 02 06:23	15°♒26'09	2.56883 AU
	15395 Jun 15 01:38	0°♍		morning rise	15400 Mar 23 06:01	29°♒20'39	
evening set	15395 Jul 14 13:33	21°♍13'11			15400 Mar 24 06:02	0°♑	
asc. node	15395 Jul 17 07:56	23°♍15'14			15400 May 10 01:48	0°♒	
	15395 Jul 26 10:21	0°♎			15400 Jun 28 03:09	0°♊	
max. Earth dist.	15395 Jul 31 12:58	3°♎49'14	2.40258 AU		15400 Aug 19 17:49	0°♌	
	15395 Sep 03 19:31	0°♌			15400 Oct 24 10:17	0°♍	
				retrograde	15400 Nov 29 13:51	6°♍37'48	
conjunction	15395 Sep 14 09:06	8°♌13'58	0°39'22		15401 Jan 01 20:06	30°♒♌	
minimum elong	15395 Sep 14 05:47	8°♌07'30	0°39'21	opposition	15401 Jan 04 16:43	28°♌58'01	-3°09'58
	15395 Oct 12 00:10	0°♍		greatest brilliancy	15401 Jan 05 17:22	28°♌35'29	-1.9m
	15395 Nov 18 20:49	0°♏		min. Earth dist.	15401 Jan 12 19:07	26°♌00'55	0.53728 AU
morning rise	15395 Nov 27 00:39	6°♏25'58		direct	15401 Feb 13 00:39	19°♌41'24	
	15395 Dec 27 06:56	0°♐		asc. node	15401 Mar 09 16:34	23°♌32'11	
	15396 Feb 05 03:52	0°♑			15401 Mar 27 04:55	0°♍	
	15396 Mar 18 08:42	0°♒			15401 May 18 20:31	0°♎	
	15396 May 03 00:55	0°♑			15401 Jun 30 01:18	0°♌	
desc. node	15396 May 14 02:33	6°♑48'56			15401 Aug 08 12:59	0°♍	
	15396 Jun 24 03:08	0°♒			15401 Sep 16 14:56	0°♏	
retrograde	15396 Sep 10 04:54	25°♒02'43			15401 Oct 26 13:36	0°♐	
opposition	15396 Oct 20 20:17	15°♒23'49	-4°34'38		15401 Dec 07 02:58	0°♑	
greatest brilliancy	15396 Oct 20 21:51	15°♒22'17	-1.2m	desc. node	15402 Jan 03 21:48	19°♑19'46	
min. Earth dist.	15396 Oct 21 13:32	15°♒06'50	0.68655 AU		15402 Jan 19 14:05	0°♒	
direct	15396 Dec 01 06:33	5°♒30'06		evening set	15402 Jan 25 16:58	4°♒07'19	
	15397 Feb 16 18:49	0°♊			15402 Mar 05 20:41	0°♑	
	15397 Apr 09 23:54	0°♌					
	15397 May 25 04:57	0°♍		conjunction	15402 Mar 15 04:22	6°♑03'09	-0°39'26
asc. node	15397 Jun 03 06:08	6°♍21'35		minimum elong	15402 Mar 15 03:07	6°♑01'06	0°39'25
	15397 Jul 05 16:54	0°♎		max. Earth dist.	15402 Mar 28 01:53	14°♑22'08	2.65427 AU
	15397 Aug 13 22:02	0°♌			15402 Apr 21 13:23	0°♒	
evening set	15397 Sep 19 13:35	28°♌54'30		morning rise	15402 Apr 29 00:03	4°♒43'04	
	15397 Sep 20 22:34	0°♍			15402 Jun 08 05:44	0°♊	
	15397 Oct 28 18:18	0°♏			15402 Jul 26 16:32	0°♌	
					15402 Sep 14 05:57	0°♍	
conjunction	15397 Dec 01 15:10	26°♏24'52	1°02'28		15402 Nov 05 18:38	0°♎	
minimum elong	15397 Dec 01 17:45	26°♏29'51	1°03'21		15403 Jan 19 11:33	0°♌	
	15397 Dec 06 07:17	0°♐		asc. node	15403 Jan 26 00:27	0°♌47'13	
	15398 Jan 15 08:29	0°♑		retrograde	15403 Feb 01 14:47	1°♌03'42	
max. Earth dist.	15398 Jan 22 08:50	5°♑06'27	2.43578 AU		15403 Feb 14 13:22	30°♒♎	
morning rise	15398 Feb 04 11:35	14°♑32'01		opposition	15403 Mar 04 14:29	25°♎34'14	2°36'10
	15398 Feb 26 12:17	0°♒		greatest brilliancy	15403 Mar 05 05:04	25°♎23'21	-2.8m
desc. node	15398 Mar 31 16:32	22°♒25'57		min. Earth dist.	15403 Mar 11 08:47	23°♎33'43	0.39885 AU
	15398 Apr 12 05:47	0°♑		direct	15403 Apr 06 14:50	19°♎08'47	
	15398 May 30 04:00	0°♒			15403 May 18 08:21	0°♌	
	15398 Jul 22 12:49	0°♊			15403 Jul 08 11:21	0°♍	
retrograde	15398 Oct 16 08:23	28°♊07'59			15403 Aug 21 01:07	0°♏	
opposition	15398 Nov 24 12:34	19°♊12'05	-4°48'38		15403 Oct 02 22:17	0°♐	
greatest brilliancy	15398 Nov 25 07:11	18°♊54'02	-1.4m		15403 Nov 15 17:47	0°♑	
min. Earth dist.	15398 Nov 29 03:32	17°♊24'44	0.64487 AU	desc. node	15403 Nov 21 20:25	4°♑06'41	






































































































































	15403 Dec 30 22:11	0° H			15409 Jan 26 12:22	0° Z		
	15404 Feb 15 08:22	0° Y			15409 Mar 08 02:28	0° \approx		
evening set	15404 Mar 05 17:17	12° $\text{Y}21'23$			15409 Apr 21 15:25	0° H		
	15404 Apr 02 12:28	0° B			15409 Jun 17 17:20	0° Y		
max. Earth dist.	15404 Apr 18 11:08	10° $\text{B}06'05$	2.68522 AU	desc. node	15409 Jul 14 17:50	7° $\text{Y}29'45$		
				retrograde	15409 Jul 26 11:20	8° $\text{Y}22'45$		
conjunction	15404 Apr 19 02:15	10° $\text{B}30'01$	-1°07'33	min. Earth dist.	15409 Aug 31 07:36	0° $\text{Y}13'01$	0.63097 AU	
minimum elong	15404 Apr 19 01:23	10° $\text{B}28'39$	1°08'04		15409 Aug 31 20:53	30° RH		
	15404 May 19 19:51	0° II		opposition	15409 Sep 04 22:44	28° $\text{H}23'34$	-2°07'38	
morning rise	15404 Jun 01 01:59	7° $\text{II}48'04$		greatest brilliancy	15409 Sep 04 12:58	28° $\text{H}33'11$	-1.5m	
	15404 Jul 05 17:52	0° E		direct	15409 Oct 13 19:24	19° $\text{H}24'38$		
	15404 Aug 20 22:32	0° O			15409 Nov 30 07:37	0° Y		
	15404 Oct 05 07:05	0° M			15410 Jan 31 15:25	0° B		
	15404 Nov 18 22:12	0° A			15410 Mar 24 02:30	0° II		
asc. node	15404 Dec 13 03:35	16° $\text{A}20'51$			15410 May 10 05:36	0° E		
	15405 Jan 02 13:46	0° M			15410 Jun 23 05:47	0° O		
	15405 Feb 19 11:41	0° J		evening set	15410 Jun 25 14:38	1° $\text{O}40'06$		
retrograde	15405 Apr 23 04:28	21° $\text{J}36'48$		max. Earth dist.	15410 Jul 09 05:57	11° $\text{O}22'50$	2.45803 AU	
min. Earth dist.	15405 May 18 23:34	17° $\text{J}19'12$	0.38503 AU		15410 Aug 03 17:37	0° M		
greatest brilliancy	15405 May 23 17:25	15° $\text{J}56'40$	-2.8m	asc. node	15410 Aug 04 03:16	0° $\text{M}17'55$		
opposition	15405 May 25 01:03	15° $\text{J}33'34$	6°52'33					
direct	15405 Jun 23 18:01	10° $\text{J}19'49$		conjunction	15410 Aug 20 03:53	12° $\text{M}18'32$	0°11'06	
	15405 Aug 26 10:09	0° Z		minimum elong	15410 Aug 20 03:04	12° $\text{M}16'59$	0°10'43	
desc. node	15405 Oct 09 01:36	24° $\text{Z}00'10$		behind sun begin	15410 Aug 19 07:35	11° $\text{M}40'12$		
	15405 Oct 19 06:38	0° \approx		behind sun end	15410 Aug 20 22:33	12° $\text{M}53'47$		
	15405 Dec 08 00:20	0° H			15410 Sep 12 07:11	0° A		
	15406 Jan 25 21:16	0° Y			15410 Oct 20 15:27	0° M		
	15406 Mar 15 06:15	0° B		morning rise	15410 Oct 26 07:13	4° $\text{M}28'07$		
evening set	15406 Apr 10 02:29	16° $\text{B}13'06$			15410 Nov 27 14:01	0° J		
	15406 May 01 19:47	0° II			15411 Jan 05 00:22	0° Z		
max. Earth dist.	15406 May 10 15:43	5° $\text{II}38'58$	2.66073 AU		15411 Feb 13 21:33	0° \approx		
					15411 Mar 28 07:04	0° H		
conjunction	15406 May 23 20:45	14° $\text{II}09'26$	-1°11'32		15411 May 13 21:13	0° Y		
minimum elong	15406 May 23 21:12	14° $\text{II}10'11$	1°12'23	desc. node	15411 Jun 01 17:38	10° $\text{Y}58'33$		
	15406 Jun 17 03:37	0° E			15411 Jul 09 18:34	0° B		
morning rise	15406 Jul 07 09:27	13° $\text{E}25'39$		retrograde	15411 Aug 29 23:27	12° $\text{B}40'22$		
	15406 Jul 31 22:14	0° O		opposition	15411 Oct 09 20:25	2° $\text{B}50'40$	-4°08'48	
	15406 Sep 13 00:56	0° M		min. Earth dist.	15411 Oct 09 01:14	3° $\text{B}09'37$	0.68418 AU	
	15406 Oct 24 13:22	0° A		greatest brilliancy	15411 Oct 09 16:17	2° $\text{B}54'45$	-1.2m	
asc. node	15406 Oct 30 22:28	4° $\text{A}41'59$			15411 Oct 17 04:26	30° RY		
	15406 Dec 03 19:55	0° M		direct	15411 Nov 19 20:30	23° $\text{Y}07'11$		
	15407 Jan 12 14:19	0° J			15411 Dec 26 23:33	0° B		
	15407 Feb 22 07:16	0° Z			15412 Feb 29 10:56	0° II		
	15407 Apr 08 08:21	0° \approx			15412 Apr 19 05:30	0° E		
retrograde	15407 Jun 17 16:49	25° $\approx49'50$			15412 Jun 02 20:24	0° O		
min. Earth dist.	15407 Jul 17 23:12	19° $\approx33'55$	0.51628 AU	asc. node	15412 Jun 20 21:06	12° $\text{O}49'47$		
opposition	15407 Jul 25 20:27	16° $\approx37'24$	1°38'40		15412 Jul 14 05:57	0° M		
greatest brilliancy	15407 Jul 25 09:15	16° $\approx47'50$	-2.1m	evening set	15412 Aug 21 18:09	29° $\text{M}25'12$		
desc. node	15407 Aug 27 11:08	9° $\approx05'10$			15412 Aug 22 12:02	0° A		
direct	15407 Aug 29 20:04	9° $\approx03'01$			15412 Sep 29 13:36	0° M		
	15407 Nov 07 22:43	0° H						
	15408 Jan 03 16:37	0° Y		conjunction	15412 Nov 01 16:19	26° $\text{M}17'18$	1°07'06	
	15408 Feb 23 22:41	0° B		minimum elong	15412 Nov 01 15:09	26° $\text{M}14'59$	1°07'47	
	15408 Apr 12 13:10	0° II			15412 Nov 06 09:00	0° J		
evening set	15408 May 14 20:51	20° $\text{II}46'04$			15412 Dec 14 19:49	0° Z		
	15408 May 28 21:28	0° E		max. Earth dist.	15412 Dec 21 13:32	5° $\text{Z}09'31$	2.37990 AU	
max. Earth dist.	15408 Jun 03 18:12	3° $\text{E}54'12$	2.58276 AU	morning rise	15413 Jan 12 12:20	21° $\text{Z}42'14$		
					15413 Jan 23 17:47	0° \approx		
conjunction	15408 Jun 30 11:47	22° $\text{E}01'03$	-0°47'02		15413 Mar 06 19:37	0° H		
minimum elong	15408 Jun 30 13:22	22° $\text{E}03'47$	0°47'54	desc. node	15413 Apr 18 11:16	28° $\text{H}33'19$		
	15408 Jul 12 00:27	0° O			15413 Apr 20 17:01	0° Y		
morning rise	15408 Aug 20 12:37	28° $\text{O}09'26$			15413 Jun 08 13:42	0° B		
	15408 Aug 23 01:15	0° M			15413 Aug 05 08:01	0° II		
asc. node	15408 Sep 16 13:35	18° $\text{M}08'14$		retrograde	15413 Oct 02 17:31	15° $\text{II}10'25$		
	15408 Oct 02 06:58	0° A		opposition	15413 Nov 11 15:37	5° $\text{II}54'48$	-4°53'10	
	15408 Nov 10 06:02	0° M		greatest brilliancy	15413 Nov 12 03:39	5° $\text{II}43'03$	-1.3m	
	15408 Dec 18 16:03	0° J		min. Earth dist.	15413 Nov 14 18:14	4° $\text{II}41'59$	0.66930 AU	

	15413 Nov 27 19:27	30° κ \mathcal{B}			15419 Feb 22 07:15	0° Υ	
direct	15413 Dec 23 06:58	25° \mathcal{B} 52'49					
	15414 Jan 19 16:11	0° Π	conjunction		15419 Apr 06 12:02	27° Υ 38'28	-0°59'24
	15414 Mar 26 07:38	0° \mathcal{E}	minimum elong		15419 Apr 06 10:51	27° Υ 36'36	0°59'44
asc. node	15414 May 08 22:36	27° \mathcal{E} 29'27			15419 Apr 10 05:07	0° \mathcal{B}	
	15414 May 12 15:33	0° Ω	max. Earth dist.		15419 Apr 10 20:08	0° \mathcal{B} 23'50	2.67981 AU
	15414 Jun 23 17:52	0° \mathcal{M}	morning rise		15419 May 19 19:19	25° \mathcal{B} 04'34	
	15414 Aug 02 03:01	0° $\underline{\mathcal{A}}$			15419 May 27 14:10	0° Π	
	15414 Sep 09 05:27	0° \mathcal{M}			15419 Jul 13 22:57	0° \mathcal{E}	
	15414 Oct 17 04:16	0° \mathcal{A}			15419 Aug 30 02:21	0° Ω	
evening set	15414 Nov 07 21:40	16° \mathcal{A} 56'12			15419 Oct 16 02:54	0° \mathcal{M}	
	15414 Nov 24 22:17	0° \mathcal{B}			15419 Dec 02 17:27	0° $\underline{\mathcal{A}}$	
	15415 Jan 04 05:38	0° \approx	asc. node		15419 Dec 30 18:46	16° $\underline{\mathcal{A}}$ 54'59	
					15420 Jan 23 08:52	0° \mathcal{M}	
conjunction	15415 Jan 11 14:47	5° \approx 20'24 0°32'28	retrograde		15420 Mar 24 00:34	19° \mathcal{M} 08'24	
minimum elong	15415 Jan 11 16:51	5° \approx 24'07 0°33'15	opposition		15420 Apr 22 17:07	14° \mathcal{M} 11'13	6°58'45
	15415 Feb 15 14:11	0° \mathcal{H}	greatest brilliancy		15420 Apr 22 10:03	14° \mathcal{M} 15'55	-3.0m
max. Earth dist.	15415 Feb 18 16:10	2° \mathcal{H} 07'25 2.52135 AU	min. Earth dist.		15420 Apr 21 15:49	14° \mathcal{M} 28'02	0.36378 AU
desc. node	15415 Mar 06 00:46	12° \mathcal{H} 35'06	direct		15420 May 21 20:50	9° \mathcal{M} 21'52	
morning rise	15415 Mar 07 18:38	13° \mathcal{H} 45'38			15420 Jul 24 01:55	0° \mathcal{A}	
	15415 Apr 01 05:30	0° Υ			15420 Sep 12 23:05	0° \mathcal{B}	
	15415 May 18 07:06	0° \mathcal{B}	desc. node		15420 Oct 25 13:35	26° \mathcal{B} 55'26	
	15415 Jul 07 09:50	0° Π			15420 Oct 30 09:38	0° \approx	
	15415 Sep 01 21:50	0° \mathcal{E}			15420 Dec 16 16:15	0° \mathcal{H}	
retrograde	15415 Nov 11 19:26	20° \mathcal{E} 43'25			15421 Feb 02 07:54	0° Υ	
opposition	15415 Dec 19 08:43	12° \mathcal{E} 28'11 -4°07'17			15421 Mar 22 02:46	0° \mathcal{B}	
greatest brilliancy	15415 Dec 20 10:20	12° \mathcal{E} 04'00 -1.7m	evening set		15421 Mar 27 13:06	3° \mathcal{B} 25'04	
min. Earth dist.	15415 Dec 26 06:15	9° \mathcal{E} 52'22 0.58655 AU	max. Earth dist.		15421 May 02 01:01	25° \mathcal{B} 52'29	2.67701 AU
direct	15416 Jan 28 20:48	2° \mathcal{E} 44'10			15421 May 08 12:23	0° Π	
asc. node	15416 Mar 26 05:28	19° \mathcal{E} 38'07					
	15416 Apr 14 04:24	0° Ω	conjunction		15421 May 10 03:46	1° Π 02'50	-1°13'05
	15416 May 30 03:48	0° \mathcal{M}	minimum elong		15421 May 10 03:40	1° Π 02'40	1°13'50
	15416 Jul 09 19:41	0° $\underline{\mathcal{A}}$	morning rise		15421 Jun 22 15:05	29° Π 05'50	
	15416 Aug 17 14:10	0° \mathcal{M}			15421 Jun 24 00:15	0° \mathcal{E}	
	15416 Sep 25 03:27	0° \mathcal{A}			15421 Aug 08 05:50	0° Ω	
	15416 Nov 03 14:06	0° \mathcal{B}			15421 Sep 21 01:05	0° \mathcal{M}	
	15416 Dec 14 15:46	0° \approx			15421 Nov 02 10:10	0° $\underline{\mathcal{A}}$	
evening set	15417 Jan 07 07:43	16° \approx 40'09	asc. node		15421 Nov 16 17:55	10° $\underline{\mathcal{A}}$ 20'25	
desc. node	15417 Jan 20 14:10	25° \approx 49'33			15421 Dec 13 16:41	0° \mathcal{M}	
	15417 Jan 26 16:47	0° \mathcal{H}			15422 Jan 23 18:03	0° \mathcal{A}	
					15422 Mar 07 21:43	0° \mathcal{B}	
conjunction	15417 Feb 27 18:25	21° \mathcal{H} 30'23 -0°22'36			15422 May 03 20:47	0° \approx	
minimum elong	15417 Feb 27 17:31	21° \mathcal{H} 28'53 0°22'22	retrograde		15422 May 29 21:04	4° \approx 36'57	
	15417 Mar 12 16:35	0° Υ			15422 Jun 24 12:13	30° κ \mathcal{B}	
max. Earth dist.	15417 Mar 18 18:26	3° Υ 57'49 2.62733 AU	min. Earth dist.		15422 Jun 26 18:34	29° \mathcal{B} 14'39	0.46083 AU
morning rise	15417 Apr 15 07:29	21° Υ 42'42	greatest brilliancy		15422 Jul 04 02:03	26° \mathcal{B} 40'52	-2.4m
	15417 Apr 28 08:20	0° \mathcal{B}	opposition		15422 Jul 05 03:47	26° \mathcal{B} 18'13	3°43'06
	15417 Jun 15 09:21	0° Π	direct		15422 Aug 07 01:53	19° \mathcal{B} 34'09	
	15417 Aug 03 22:13	0° \mathcal{E}	desc. node		15422 Sep 12 21:04	26° \mathcal{B} 49'42	
	15417 Sep 25 07:24	0° Ω			15422 Sep 21 08:34	0° \approx	
	15417 Nov 28 14:13	0° \mathcal{M}			15422 Nov 21 06:30	0° \mathcal{H}	
retrograde	15418 Jan 04 06:59	6° \mathcal{M} 59'52			15423 Jan 12 12:32	0° Υ	
opposition	15418 Feb 06 08:53	0° \mathcal{M} 34'03 -0°19'21			15423 Mar 03 07:55	0° \mathcal{B}	
greatest brilliancy	15418 Feb 06 12:10	0° \mathcal{M} 31'20 -2.5m			15423 Apr 20 10:08	0° Π	
	15418 Feb 08 01:45	30° κ Ω	evening set		15423 May 01 14:58	7° Π 09'01	
asc. node	15418 Feb 11 12:41	28° Ω 50'40	max. Earth dist.		15423 May 25 08:47	22° Π 32'02	2.61962 AU
min. Earth dist.	15418 Feb 14 22:13	27° Ω 43'51 0.45050 AU			15423 Jun 05 17:00	0° \mathcal{E}	
direct	15418 Mar 14 13:18	22° Ω 42'03					
	15418 Apr 17 05:21	0° \mathcal{M}	conjunction		15423 Jun 15 14:43	6° \mathcal{E} 35'15	-1°00'19
	15418 Jun 09 21:57	0° $\underline{\mathcal{A}}$	minimum elong		15423 Jun 15 16:01	6° \mathcal{E} 37'25	1°01'13
	15418 Jul 22 10:58	0° \mathcal{M}			15423 Jul 20 01:06	0° Ω	
	15418 Sep 01 05:34	0° \mathcal{A}	morning rise		15423 Aug 02 05:55	9° Ω 11'49	
	15418 Oct 12 11:11	0° \mathcal{B}			15423 Aug 31 10:45	0° \mathcal{M}	
	15418 Nov 24 02:27	0° \approx	asc. node		15423 Oct 04 08:57	24° \mathcal{M} 56'55	
desc. node	15418 Dec 08 10:33	9° \approx 49'40			15423 Oct 11 02:43	0° $\underline{\mathcal{A}}$	
	15419 Jan 07 10:29	0° \mathcal{H}			15423 Nov 19 11:28	0° \mathcal{M}	
evening set	15419 Feb 20 00:33	28° \mathcal{H} 31'43			15423 Dec 28 06:13	0° \mathcal{A}	


































































































































	15424 Feb 05 12:11	0°♄			15429 May 20 23:36	0°♈		
	15424 Mar 17 20:58	0°♊		asc. node	15429 May 25 12:40	3°♈09'22		
	15424 May 04 01:49	0°♋			15429 Jul 01 16:33	0°♎		
retrograde	15424 Jul 12 00:27	23°♋30'13			15429 Aug 09 23:19	0°♊		
desc. node	15424 Jul 31 05:51	20°♋55'01			15429 Sep 17 00:30	0°♌		
min. Earth dist.	15424 Aug 14 19:35	16°♋00'39	0.59227 AU	evening set	15429 Oct 08 06:03	16°♌51'21		
opposition	15424 Aug 20 21:03	13°♋38'58	-0°55'12		15429 Oct 24 21:02	0°♌		
greatest brilliancy	15424 Aug 20 15:26	13°♋44'26	-1.7m		15429 Dec 02 11:04	0°♄		
direct	15424 Sep 27 10:54	5°♋06'50						
	15424 Dec 15 21:32	0°♎		conjunction	15429 Dec 18 05:06	11°♄56'59	0°53'32	
	15425 Feb 09 13:28	0°♏		minimum elong	15429 Dec 18 08:12	12°♄02'48	0°54'25	
	15425 Mar 31 13:41	0°♐			15430 Jan 11 13:16	0°♊		
	15425 May 17 07:01	0°♑		max. Earth dist.	15430 Feb 03 06:35	16°♊22'00	2.46722 AU	
evening set	15425 Jun 08 04:20	14°♑42'19		morning rise	15430 Feb 17 04:57	26°♊10'04		
max. Earth dist.	15425 Jun 23 05:02	25°♑02'52	2.51120 AU		15430 Feb 22 17:23	0°♋		
	15425 Jun 30 07:14	0°♈		desc. node	15430 Mar 22 19:10	19°♋04'47		
					15430 Apr 08 08:12	0°♎		
conjunction	15425 Jul 29 04:31	20°♈38'03	-0°15'19		15430 May 25 20:03	0°♏		
minimum elong	15425 Jul 29 05:27	20°♈39'44	0°15'58		15430 Jul 16 14:59	0°♐		
behind sun begin	15425 Jul 29 01:46	20°♈33'03			15430 Sep 20 13:52	0°♑		
behind sun end	15425 Jul 29 09:08	20°♈46'25		retrograde	15430 Oct 26 03:25	6°♑21'08		
	15425 Aug 10 23:22	0°♎			15430 Nov 27 12:37	30°♐♐		
asc. node	15425 Aug 20 21:50	7°♎22'33		opposition	15430 Dec 03 19:44	27°♐38'11	-4°39'00	
	15425 Sep 19 18:31	0°♊		greatest brilliancy	15430 Dec 04 17:37	27°♐17'10	-1.5m	
morning rise	15425 Sep 26 17:05	5°♊20'46		min. Earth dist.	15430 Dec 09 07:11	25°♐32'04	0.62669 AU	
	15425 Oct 28 07:44	0°♌		direct	15431 Jan 14 00:50	17°♐40'39		
	15425 Dec 05 09:46	0°♌			15431 Mar 03 22:29	0°♑		
	15426 Jan 12 22:23	0°♄		asc. node	15431 Apr 12 17:23	21°♑04'07		
	15426 Feb 21 22:36	0°♊			15431 Apr 27 01:58	0°♈		
	15426 Apr 05 18:33	0°♋			15431 Jun 09 17:35	0°♎		
	15426 May 24 01:55	0°♎			15431 Jul 19 15:51	0°♊		
desc. node	15426 Jun 18 10:10	13°♎15'31			15431 Aug 27 01:14	0°♌		
retrograde	15426 Aug 16 18:48	29°♎59'51			15431 Oct 04 06:49	0°♌		
min. Earth dist.	15426 Sep 24 08:22	20°♎57'57	0.67115 AU		15431 Nov 12 09:10	0°♄		
opposition	15426 Sep 26 15:59	20°♎02'57	-3°31'52	evening set	15431 Dec 18 06:15	26°♄31'18		
greatest brilliancy	15426 Sep 26 07:39	20°♎11'12	-1.3m		15431 Dec 23 01:51	0°♊		
direct	15426 Nov 05 23:54	10°♎33'37			15432 Feb 03 18:42	0°♋		
	15427 Jan 13 07:14	0°♏		desc. node	15432 Feb 07 08:45	2°♋27'16		
	15427 Mar 10 14:08	0°♐						
	15427 Apr 27 23:29	0°♑		conjunction	15432 Feb 11 20:03	5°♋30'04	-0°02'47	
	15427 Jun 11 06:21	0°♈		minimum elong	15432 Feb 11 19:58	5°♋29'55	0°02'19	
asc. node	15427 Jul 08 14:35	19°♈37'09		behind sun begin	15432 Feb 10 22:33	4°♋53'32		
	15427 Jul 22 15:49	0°♎		behind sun end	15432 Feb 12 17:22	6°♋06'16		
evening set	15427 Jul 28 04:07	4°♎07'27		max. Earth dist.	15432 Mar 08 13:13	22°♋45'06	2.59192 AU	
max. Earth dist.	15427 Aug 24 14:39	25°♎02'35	2.37527 AU		15432 Mar 19 13:13	0°♎		
	15427 Aug 31 00:07	0°♊		morning rise	15432 Mar 31 21:25	8°♎02'36		
					15432 May 05 06:06	0°♏		
conjunction	15427 Oct 01 22:23	25°♊04'37	0°53'19		15432 Jun 22 20:11	0°♐		
minimum elong	15427 Oct 01 18:28	24°♊56'53	0°53'35		15432 Aug 13 00:36	0°♑		
	15427 Oct 08 03:29	0°♌			15432 Oct 10 00:53	0°♈		
	15427 Nov 14 23:15	0°♌		retrograde	15432 Dec 11 09:12	17°♈02'53		
morning rise	15427 Dec 15 21:51	24°♌14'25		opposition	15433 Jan 15 12:39	9°♈46'41	-2°21'12	
	15427 Dec 23 08:51	0°♄		greatest brilliancy	15433 Jan 16 09:03	9°♈28'31	-2.1m	
	15428 Feb 01 04:57	0°♊		min. Earth dist.	15433 Jan 24 01:58	6°♈44'16	0.50714 AU	
	15428 Mar 14 07:04	0°♋		direct	15433 Feb 22 23:17	0°♈52'55		
	15428 Apr 28 13:09	0°♎		asc. node	15433 Feb 28 02:15	1°♈03'53		
desc. node	15428 May 05 05:09	4°♎11'44			15433 May 10 05:18	0°♎		
	15428 Jun 18 00:20	0°♏			15433 Jun 23 05:33	0°♊		
	15428 Aug 28 01:06	0°♐			15433 Aug 02 09:32	0°♌		
retrograde	15428 Sep 18 21:13	2°♐38'03			15433 Sep 10 21:23	0°♌		
	15428 Oct 09 07:40	30°♐♐			15433 Oct 21 04:08	0°♄		
opposition	15428 Oct 29 08:05	23°♐06'41	-4°44'55		15433 Dec 02 00:26	0°♊		
greatest brilliancy	15428 Oct 29 13:18	23°♐01'34	-1.2m	desc. node	15433 Dec 25 01:07	15°♊57'54		
min. Earth dist.	15428 Oct 30 22:01	22°♐29'27	0.68326 AU		15434 Jan 14 17:28	0°♋		
direct	15428 Dec 09 21:50	13°♐08'56		evening set	15434 Feb 04 07:38	13°♋43'25		
	15429 Feb 09 05:47	0°♐			15434 Mar 01 03:53	0°♎		
	15429 Apr 05 03:19	0°♑						

conjunction	15434 Mar 23 12:06	14°♈25'31	-0°47'48			15439 May 25 03:27	0°♈	
minimum elong	15434 Mar 23 10:47	14°♈23'25	0°47'55	retrograde		15439 Jun 27 08:34	6°♈51'43	
max. Earth dist.	15434 Apr 02 05:43	20°♈39'31	2.66582 AU	min. Earth dist.		15439 Jul 28 22:06	0°♈08'00	0.54537 AU
	15434 Apr 16 21:34	0°♈				15439 Jul 29 06:39	30°♈	
morning rise	15434 May 06 14:53	12°♈29'31		opposition		15439 Aug 05 06:09	27°♈20'26	0°36'17
	15434 Jun 03 10:17	0°♈		greatest brilliancy		15439 Aug 05 02:17	27°♈24'07	-1.9m
	15434 Jul 21 09:55	0°♈		desc. node		15439 Aug 17 17:44	22°♈58'55	
	15434 Sep 07 21:56	0°♈		direct		15439 Sep 10 06:33	19°♈22'40	
	15434 Oct 27 17:59	0°♈				15439 Oct 27 02:11	0°♈	
	15434 Dec 21 20:58	0°♈				15439 Dec 28 04:54	0°♈	
asc. node	15435 Jan 16 08:50	10°♈43'28				15440 Feb 18 16:29	0°♈	
retrograde	15435 Feb 19 14:44	17°♈17'56				15440 Apr 07 17:42	0°♈	
opposition	15435 Mar 21 12:01	12°♈14'39	4°29'10	evening set		15440 May 23 08:55	29°♈26'28	
greatest brilliancy	15435 Mar 22 03:38	12°♈03'48	-2.9m			15440 May 24 05:10	0°♈	
min. Earth dist.	15435 Mar 26 04:28	10°♈56'45	0.37796 AU	max. Earth dist.		15440 Jun 10 08:00	11°♈27'32	2.55925 AU
direct	15435 Apr 21 15:54	6°♈37'28				15440 Jul 07 07:39	0°♈	
	15435 Jun 26 13:56	0°♈						
	15435 Aug 12 20:23	0°♈		conjunction		15440 Jul 10 06:02	2°♈03'05	-0°36'58
	15435 Sep 26 06:31	0°♈		minimum elong		15440 Jul 10 07:36	2°♈05'49	0°37'46
	15435 Nov 09 23:18	0°♈				15440 Aug 18 05:48	0°♈	
desc. node	15435 Nov 12 01:06	1°♈22'37		morning rise		15440 Sep 01 19:04	10°♈44'54	
	15435 Dec 25 17:28	0°♈		asc. node		15440 Sep 06 17:43	14°♈26'17	
	15436 Feb 10 12:05	0°♈				15440 Sep 27 08:09	0°♈	
evening set	15436 Mar 13 19:18	20°♈28'46				15440 Nov 05 03:41	0°♈	
	15436 Mar 28 20:36	0°♈				15440 Dec 13 10:24	0°♈	
max. Earth dist.	15436 Apr 23 10:37	16°♈11'30	2.68470 AU			15441 Jan 21 02:51	0°♈	
						15441 Mar 02 09:19	0°♈	
conjunction	15436 Apr 26 18:22	18°♈17'56	-1°10'44			15441 Apr 15 00:45	0°♈	
minimum elong	15436 Apr 26 17:46	18°♈16'58	1°11'20			15441 Jun 05 23:43	0°♈	
	15436 May 15 04:23	0°♈		desc. node		15441 Jul 04 23:12	11°♈48'53	
morning rise	15436 Jun 08 18:42	15°♈43'18		retrograde		15441 Aug 03 08:40	16°♈47'19	
	15436 Jun 30 22:15	0°♈		min. Earth dist.		15441 Sep 09 05:41	8°♈17'38	0.64802 AU
	15436 Aug 15 17:49	0°♈		opposition		15441 Sep 13 01:07	6°♈47'22	-2°42'52
	15436 Sep 29 10:54	0°♈		greatest brilliancy		15441 Sep 12 14:53	6°♈57'28	-1.4m
	15436 Nov 12 02:17	0°♈				15441 Oct 03 00:16	30°♈	
asc. node	15436 Dec 03 09:43	14°♈50'56		direct		15441 Oct 22 11:46	27°♈36'08	
	15436 Dec 25 02:19	0°♈				15441 Nov 12 10:03	0°♈	
	15437 Feb 07 01:18	0°♈				15442 Jan 25 00:56	0°♈	
	15437 Mar 31 18:16	0°♈				15442 Mar 18 20:08	0°♈	
retrograde	15437 May 07 15:48	8°♈48'25				15442 May 05 08:55	0°♈	
min. Earth dist.	15437 Jun 02 17:41	4°♈14'13	0.40845 AU			15442 Jun 18 11:39	0°♈	
greatest brilliancy	15437 Jun 08 19:17	2°♈19'58	-2.7m	evening set		15442 Jul 06 13:02	12°♈51'24	
opposition	15437 Jun 10 05:40	1°♈52'43	5°55'01	max. Earth dist.		15442 Jul 20 21:11	23°♈17'47	2.42710 AU
	15437 Jun 16 09:23	30°♈		asc. node		15442 Jul 25 07:32	26°♈33'44	
direct	15437 Jul 11 02:01	26°♈07'34				15442 Jul 29 22:53	0°♈	
	15437 Aug 05 13:18	0°♈						
desc. node	15437 Sep 29 08:51	23°♈49'03		conjunction		15442 Sep 03 09:08	26°♈51'08	0°27'24
	15437 Oct 10 19:28	0°♈		minimum elong		15442 Sep 03 06:52	26°♈46'46	0°27'13
	15437 Dec 01 20:05	0°♈				15442 Sep 07 10:54	0°♈	
	15438 Jan 20 15:19	0°♈				15442 Oct 15 17:30	0°♈	
	15438 Mar 10 10:44	0°♈		morning rise		15442 Nov 13 13:51	22°♈50'58	
evening set	15438 Apr 17 20:41	24°♈04'42				15442 Nov 22 14:54	0°♈	
	15438 Apr 27 04:24	0°♈				15442 Dec 31 00:33	0°♈	
max. Earth dist.	15438 May 15 22:02	12°♈00'49	2.64841 AU			15443 Feb 08 20:13	0°♈	
						15443 Mar 23 01:00	0°♈	
conjunction	15438 May 31 21:37	22°♈23'22	-1°08'46			15443 May 07 22:35	0°♈	
minimum elong	15438 May 31 22:24	22°♈24'40	1°09'38	desc. node		15443 May 22 22:25	9°♈03'51	
	15438 Jun 12 11:55	0°♈				15443 Jun 30 08:57	0°♈	
morning rise	15438 Jul 16 07:06	22°♈36'34		retrograde		15443 Sep 06 11:56	20°♈15'04	
	15438 Jul 27 03:01	0°♈		opposition		15443 Oct 17 06:42	10°♈31'01	-4°25'26
	15438 Sep 07 23:28	0°♈		greatest brilliancy		15443 Oct 17 05:37	10°♈32'05	-1.2m
	15438 Oct 19 04:08	0°♈		min. Earth dist.		15443 Oct 17 07:57	10°♈29'47	0.68682 AU
asc. node	15438 Oct 21 04:18	1°♈29'22		direct		15443 Nov 27 13:03	0°♈41'18	
	15438 Nov 28 01:37	0°♈				15444 Feb 22 17:05	0°♈	
	15439 Jan 06 09:19	0°♈				15444 Apr 13 20:29	0°♈	
	15439 Feb 15 08:44	0°♈				15444 May 28 20:45	0°♈	
	15439 Mar 30 09:09	0°♈		asc. node		15444 Jun 11 04:39	9°♈24'43	

	15444 Jul 09 08:46	0°♎			15449 Apr 23 15:39	0°♎	
	15444 Aug 17 15:04	0°♏			15449 Jun 10 10:44	0°♐	
evening set	15444 Sep 07 01:41	16°♏03'00			15449 Jul 29 07:16	0°♑	
	15444 Sep 24 16:09	0°♎			15449 Sep 17 21:05	0°♒	
	15444 Nov 01 11:23	0°♏			15449 Nov 12 13:04	0°♎	
				retrograde	15450 Jan 19 13:15	20°♎25'40	
conjunction	15444 Nov 19 11:42	14°♏09'10	1°06'36	asc. node	15450 Feb 01 21:41	19°♎17'16	
minimum elong	15444 Nov 19 13:02	14°♏11'48	1°07'27	opposition	15450 Feb 20 11:25	14°♎30'58	1°14'20
	15444 Dec 09 22:40	0°♑		greatest brilliancy	15450 Feb 20 20:03	14°♎24'10	-2.7m
max. Earth dist.	15445 Jan 12 09:44	25°♑13'47	2.41008 AU	min. Earth dist.	15450 Feb 28 08:03	12°♎03'11	0.42053 AU
	15445 Jan 18 21:09	0°♏		direct	15450 Mar 26 23:12	7°♎24'41	
morning rise	15445 Jan 26 14:09	5°♏37'32			15450 May 29 17:51	0°♏	
	15445 Mar 01 22:32	0°♏			15450 Jul 14 11:33	0°♎	
desc. node	15445 Apr 08 13:37	25°♏22'43			15450 Aug 25 12:06	0°♏	
	15445 Apr 15 15:38	0°♐			15450 Oct 06 12:09	0°♑	
	15445 Jun 02 20:11	0°♎			15450 Nov 18 16:36	0°♏	
	15445 Jul 27 12:28	0°♐		desc. node	15450 Nov 28 15:41	6°♏46'21	
retrograde	15445 Oct 10 22:03	22°♐59'38			15451 Jan 02 10:12	0°♏	
opposition	15445 Nov 19 11:27	13°♐54'27	-4°52'08		15451 Feb 17 13:07	0°♐	
greatest brilliancy	15445 Nov 20 03:16	13°♐39'05	-1.3m	evening set	15451 Feb 28 11:55	7°♐01'18	
min. Earth dist.	15445 Nov 23 10:37	12°♐22'03	0.65717 AU		15451 Apr 05 13:50	0°♎	
direct	15445 Dec 31 01:24	3°♐52'15					
	15446 Mar 18 23:11	0°♑		conjunction	15451 Apr 14 07:01	5°♎31'44	-1°04'38
asc. node	15446 Apr 29 07:24	24°♑58'19		minimum elong	15451 Apr 14 05:59	5°♎30'07	1°05'05
	15446 May 06 21:52	0°♒		max. Earth dist.	15451 Apr 15 19:42	6°♎29'54	2.68382 AU
	15446 Jun 18 11:03	0°♎			15451 May 22 21:38	0°♐	
	15446 Jul 28 00:17	0°♏		morning rise	15451 May 27 08:47	2°♐49'58	
	15446 Sep 04 04:34	0°♎			15451 Jul 09 00:15	0°♑	
	15446 Oct 12 04:53	0°♏			15451 Aug 24 14:42	0°♒	
	15446 Nov 20 00:44	0°♑			15451 Oct 09 15:18	0°♎	
evening set	15446 Nov 23 14:19	2°♑42'12			15451 Nov 24 08:39	0°♏	
	15446 Dec 30 10:01	0°♏		asc. node	15451 Dec 21 02:24	17°♏22'26	
					15452 Jan 10 01:16	0°♎	
conjunction	15447 Jan 23 17:51	17°♏23'24	0°19'21		15452 Mar 05 13:01	0°♏	
minimum elong	15447 Jan 23 19:02	17°♏25'29	0°20'02	retrograde	15452 Apr 10 14:52	8°♏05'04	
	15447 Feb 10 20:08	0°♏		min. Earth dist.	15452 May 07 02:22	3°♏47'20	0.37151 AU
desc. node	15447 Feb 24 02:01	9°♏03'42		greatest brilliancy	15452 May 10 06:41	2°♏54'55	-2.9m
max. Earth dist.	15447 Feb 26 02:55	10°♏26'37	2.54849 AU	opposition	15452 May 11 05:53	2°♏38'56	7°15'13
morning rise	15447 Mar 17 08:44	23°♏20'14			15452 May 21 13:15	30°♎	
	15447 Mar 27 11:10	0°♐		direct	15452 Jun 09 08:04	27°♎43'36	
	15447 May 13 07:51	0°♎			15452 Jun 28 07:42	0°♏	
	15447 Jul 01 17:27	0°♐			15452 Sep 03 07:22	0°♑	
	15447 Aug 24 14:12	0°♑		desc. node	15452 Oct 15 19:37	25°♑16'08	
	15447 Nov 20 04:48	0°♒			15452 Oct 23 13:00	0°♏	
retrograde	15447 Nov 22 02:49	0°♒01'20			15452 Dec 11 00:25	0°♏	
	15447 Nov 24 00:35	30°♎			15453 Jan 28 06:53	0°♐	
opposition	15447 Dec 28 22:15	22°♑04'46	-3°37'37		15453 Mar 17 09:18	0°♎	
greatest brilliancy	15447 Dec 30 00:01	21°♑40'50	-1.8m	evening set	15453 Apr 04 07:01	11°♎14'50	
min. Earth dist.	15448 Jan 05 12:56	19°♑15'30	0.56034 AU		15453 May 03 21:16	0°♐	
direct	15448 Feb 06 20:45	12°♑33'43		max. Earth dist.	15453 May 07 01:24	2°♐01'29	2.66900 AU
asc. node	15448 Mar 16 13:36	21°♑13'49					
	15448 Apr 04 10:46	0°♒		conjunction	15453 May 17 22:11	8°♐59'15	-1°12'44
	15448 May 23 09:02	0°♎		minimum elong	15453 May 17 22:25	8°♐59'37	1°13'32
	15448 Jul 03 20:05	0°♏			15453 Jun 19 07:19	0°♑	
	15448 Aug 11 23:22	0°♎		morning rise	15453 Jun 30 21:53	7°♑38'25	
	15448 Sep 19 18:36	0°♏			15453 Aug 03 07:28	0°♒	
	15448 Oct 29 10:39	0°♑			15453 Sep 15 17:52	0°♎	
	15448 Dec 09 17:10	0°♏			15453 Oct 27 15:41	0°♏	
desc. node	15449 Jan 10 18:03	22°♏22'20		asc. node	15453 Nov 06 22:07	7°♏30'11	
evening set	15449 Jan 18 00:21	27°♏20'22			15453 Dec 07 08:08	0°♎	
	15449 Jan 21 22:15	0°♏			15454 Jan 16 13:58	0°♏	
					15454 Feb 27 01:08	0°♑	
conjunction	15449 Mar 08 16:40	0°♐26'34	-0°32'49		15454 Apr 15 13:50	0°♏	
minimum elong	15449 Mar 08 15:30	0°♐24'39	0°32'43	retrograde	15454 Jun 09 20:03	17°♏32'24	
	15449 Mar 08 00:24	0°♐		min. Earth dist.	15454 Jul 09 00:10	11°♏40'49	0.49165 AU
max. Earth dist.	15449 Mar 24 07:27	10°♐34'49	2.64320 AU	greatest brilliancy	15454 Jul 16 12:33	8°♏56'42	-2.2m
morning rise	15449 Apr 23 04:47	29°♐42'45		opposition	15454 Jul 17 05:56	8°♏40'51	2°29'46

direct	15454 Aug 20 08:40	1°  27'41	evening set	15459 Aug 10 23:38	18°  16'00	
desc. node	15454 Sep 03 04:57	2°  36'52		15459 Aug 26 04:11	0° 	
	15454 Nov 13 05:21	0° 		15459 Oct 03 06:56	0° 	
	15455 Jan 06 17:02	0° 				
	15455 Feb 26 07:24	0° 	conjunction	15459 Oct 19 12:33	12°  53'42	1°03'19
	15455 Apr 15 17:03	0° 	minimum elong	15459 Oct 19 09:37	12°  47'52	1°03'51
evening set	15455 May 09 15:23	15°  19'07	max. Earth dist.	15459 Nov 08 15:04	28°  50'29	2.36224 AU
max. Earth dist.	15455 May 31 03:22	29°  23'10		15459 Nov 10 02:14	0° 	
	15455 Jun 01 01:38	0° 		15459 Dec 18 11:46	0° 	
			morning rise	15460 Jan 01 13:18	10°  344'54	
conjunction	15455 Jun 24 10:38	15°  39'53 -0°53'18		15460 Jan 27 07:37	0° 	
minimum elong	15455 Jun 24 12:08	15°  42'26		15460 Mar 09 07:38	0° 	
	15455 Jul 15 08:01	0° 		15460 Apr 23 06:13	0° 	
morning rise	15455 Aug 12 19:23	20°  04'30				
	15455 Aug 26 13:32	0° 	desc. node	15460 Apr 25 07:49	1°  19'25	
	15455 Sep 24 13:46	21°  19'23'44		15460 Jun 11 14:01	0° 	
asc. node	15455 Oct 06 00:28	0° 		15460 Aug 11 08:52	0° 	
	15455 Nov 14 03:59	0° 	retrograde	15460 Sep 26 16:42	10°  15'53	
	15455 Dec 22 17:25	0° 	opposition	15460 Nov 05 21:29	0°  52'50	-4°51'15
	15456 Jan 30 16:51	0° 	greatest brilliancy	15460 Nov 06 06:31	0°  43'59	-1.3m
	15456 Mar 11 12:04	0° 	min. Earth dist.	15460 Nov 08 08:10	29°  55'26	0.67690 AU
	15456 Apr 25 18:56	0° 		15460 Nov 08 03:29	30°  R 	
	15456 Jun 29 19:09	0° 	direct	15460 Dec 17 13:00	20°  52'02	
retrograde	15456 Jul 20 09:10	2°  19'38'34		15461 Jan 29 05:48	0° 	
desc. node	15456 Jul 21 12:33	2°  19'38'02		15461 Mar 29 21:55	0° 	
	15456 Aug 08 22:50	30°  R 	asc. node	15461 May 15 20:24	0°  09'03	
min. Earth dist.	15456 Aug 24 08:18	24°  19'45'45		15461 May 15 15:07	0° 	
opposition	15456 Aug 29 14:34	22°  19'41'51		15461 Jun 26 14:19	0° 	
greatest brilliancy	15456 Aug 29 05:52	22°  19'41'24		15461 Aug 04 23:13	0° 	
direct	15456 Oct 06 22:11	13°  19'53'56	greatest brilliancy	15461 Sep 12 00:42	29°  58'47	1.2m
	15456 Dec 06 17:33	0° 		15461 Sep 12 01:19	0° 	
	15457 Feb 03 16:35	0° 		15461 Oct 19 22:43	0° 	
	15457 Mar 26 12:56	0° 	evening set	15461 Oct 25 18:46	4°  19'35'04	
	15457 May 12 12:57	0° 		15461 Nov 27 14:11	0° 	
evening set	15457 Jun 17 18:40	24°  53'32'08	conjunction	15462 Jan 01 11:22	26°  53'08'09	0°42'00
	15457 Jun 25 14:37	0° 	minimum elong	15462 Jan 01 14:03	26°  53'13'04	0°42'49
max. Earth dist.	15457 Jul 01 15:44	4°  53'15'35		15462 Jan 06 18:04	0° 	
	15457 Aug 06 05:27	0° 	max. Earth dist.	15462 Feb 12 10:26	26°  53'09'44	2.49778 AU
				15462 Feb 17 23:03	0° 	
conjunction	15457 Aug 10 02:17	2°  53'52'00	morning rise	15462 Feb 28 00:45	6°  19'55'28	
minimum elong	15457 Aug 10 02:19	2°  53'52'05	desc. node	15462 Mar 12 22:08	15°  19'39'58	
behind sun begin	15457 Aug 09 02:08	2°  53'07'13		15462 Apr 03 12:26	0° 	
behind sun end	15457 Aug 11 02:30	3°  53'37'00		15462 May 20 16:14	0° 	
asc. node	15457 Aug 11 03:47	3°  53'39'23		15462 Jul 10 07:41	0° 	
	15457 Sep 14 22:22	0° 		15462 Sep 07 08:59	0° 	
morning rise	15457 Oct 12 17:23	21°  53'37'15	retrograde	15462 Nov 04 09:00	14°  53'52'34	
	15457 Oct 23 09:08	0° 	opposition	15462 Dec 12 11:31	6°  53'24'09	-4°23'00
greatest brilliancy	15457 Nov 26 05:00	26°  53'14'33'00	greatest brilliancy	15462 Dec 13 11:49	6°  53'01'00	-1.6m
	15457 Nov 30 08:54	0° 	min. Earth dist.	15462 Dec 18 18:35	4°  53'00'35	0.60575 AU
	15458 Jan 07 19:26	0° 		15462 Dec 30 12:01	30°  R 	
	15458 Feb 16 16:21	0° 	direct	15463 Jan 22 08:49	26°  53'32'34	
	15458 Mar 31 03:35	0° 		15463 Feb 15 09:42	0° 	
	15458 May 17 05:00	0° 	asc. node	15463 Apr 03 02:35	20°  53'10'01	
desc. node	15458 Jun 08 13:23	12°  53'34'48		15463 Apr 19 22:46	0° 	
	15458 Jul 16 17:33	0° 		15463 Jun 03 19:35	0° 	
retrograde	15458 Aug 24 08:12	7°  53'47'57		15463 Jul 14 03:43	0° 	
	15458 Sep 28 22:21	30°  R 		15463 Aug 21 17:57	0° 	
min. Earth dist.	15458 Oct 02 18:55	28°  53'29'18		15463 Sep 29 02:57	0° 	
opposition	15458 Oct 04 06:02	27°  53'54'36		15463 Nov 07 08:44	0° 	
greatest brilliancy	15458 Oct 03 23:48	28°  53'00'46		15463 Dec 18 05:00	0° 	
direct	15458 Nov 13 23:20	18°  53'16'49	evening set	15463 Dec 30 12:46	8°  53'46'56	
	15459 Jan 03 08:56	0° 	desc. node	15464 Jan 28 11:18	28°  53'55'43	
	15459 Mar 04 15:18	0° 		15464 Jan 30 00:52	0° 	
	15459 Apr 22 20:25	0° 				
	15459 Jun 06 09:26	0° 	conjunction	15464 Feb 21 15:51	15°  19'17'54	-0°14'37
asc. node	15459 Jun 28 20:34	16°  53'01'43	minimum elong	15464 Feb 21 15:13	15°  19'16'49	0°14'17
	15459 Jul 17 20:10	0° 	behind sun begin	15464 Feb 21 05:58	15°  19'01'23	

behind sun end	15464 Feb 22 00:27	15° H 32'15		min. Earth dist.	15469 Jun 16 15:26	19° Z 30'16	0.43638 AU
	15464 Mar 14 21:00	0° Y		opposition	15469 Jun 24 21:08	16° Z 44'05	4°41'19
max. Earth dist.	15464 Mar 14 12:35	29° H 46'11	2.61251 AU	greatest brilliancy	15469 Jun 23 14:03	17° Z 10'19	-2.5m
morning rise	15464 Apr 09 05:15	16° Y 26'16		direct	15469 Jul 26 20:07	10° Z 25'50	
	15464 Apr 30 12:00	0° B		desc. node	15469 Sep 19 15:00	25° Z 04'12	
	15464 Jun 17 17:07	0° II			15469 Sep 30 05:44	0° \approx	
	15464 Aug 06 20:05	0° D			15469 Nov 25 03:33	0° H	
	15464 Sep 30 00:17	0° Q			15470 Jan 15 05:09	0° Y	
retrograde	15464 Dec 24 08:57	28° Q 23'59			15470 Mar 05 13:41	0° B	
opposition	15465 Jan 27 09:29	21° Q 34'23	-1°17'35		15470 Apr 22 12:29	0° II	
greatest brilliancy	15465 Jan 27 21:41	21° Q 23'53	-2.3m	evening set	15470 Apr 25 15:57	2° II 00'05	
min. Earth dist.	15465 Feb 05 01:47	18° Q 35'17	0.47590 AU	max. Earth dist.	15470 May 21 07:45	18° II 30'55	2.63354 AU
asc. node	15465 Feb 18 09:54	14° Q 50'27			15470 Jun 07 20:28	0° D	
direct	15465 Mar 05 16:27	13° Q 11'15					
	15465 Apr 28 22:20	0° P		conjunction	15470 Jun 09 03:27	0° D 51'09	-1°04'28
	15465 Jun 15 13:45	0° A		minimum elong	15470 Jun 09 04:33	0° D 52'59	1°05'21
	15465 Jul 26 20:31	0° M			15470 Jul 22 08:40	0° Q	
	15465 Sep 04 22:50	0° J		morning rise	15470 Jul 25 15:51	2° Q 16'31	
	15465 Oct 15 16:07	0° Z			15470 Sep 02 24:00	0° P	
	15465 Nov 26 21:03	0° \approx		asc. node	15470 Oct 11 09:10	28° P 06'10	
desc. node	15465 Dec 15 06:04	12° \approx 40'56			15470 Oct 13 22:14	0° A	
	15466 Jan 09 20:39	0° H			15470 Nov 22 12:53	0° M	
evening set	15466 Feb 13 09:21	22° H 47'23			15470 Dec 31 12:38	0° J	
	15466 Feb 24 11:34	0° Y			15471 Feb 09 00:16	0° Z	
					15471 Mar 22 20:25	0° \approx	
conjunction	15466 Mar 31 13:05	22° Y 31'41	-0°55'01		15471 May 11 01:29	0° H	
minimum elong	15466 Mar 31 11:49	22° Y 29'39	0°55'17	retrograde	15471 Jul 06 11:39	17° H 05'31	
max. Earth dist.	15466 Apr 07 07:06	26° Y 49'43	2.67454 AU	desc. node	15471 Aug 07 23:34	10° H 02'38	
	15466 Apr 12 06:47	0° B		min. Earth dist.	15471 Aug 08 07:01	9° H 55'34	0.57222 AU
morning rise	15466 May 14 03:41	20° B 11'07		opposition	15471 Aug 14 22:34	7° H 21'26	-0°19'22
	15466 May 29 16:52	0° II		greatest brilliancy	15471 Aug 14 20:27	7° H 23'29	-1.8m
	15466 Jul 16 07:42	0° D			15471 Sep 08 18:28	30° R \approx	
	15466 Sep 02 00:03	0° Q		direct	15471 Sep 20 20:41	29° \approx 03'30	
	15466 Oct 20 01:16	0° P			15471 Oct 03 11:32	0° H	
	15466 Dec 08 21:46	0° A			15471 Dec 21 01:10	0° Y	
asc. node	15467 Jan 06 16:18	15° A 43'39			15472 Feb 13 05:30	0° B	
	15467 Feb 08 19:09	0° M			15472 Apr 02 20:18	0° II	
retrograde	15467 Mar 10 10:51	5° M 14'53			15472 May 19 12:16	0° D	
opposition	15467 Apr 08 21:08	0° M 23'55	6°09'23	evening set	15472 Jun 01 04:22	8° D 27'00	
greatest brilliancy	15467 Apr 09 03:22	0° M 19'46	-3.0m	max. Earth dist.	15472 Jun 17 07:42	19° D 24'32	2.53350 AU
	15467 Apr 10 09:00	30° R A			15472 Jul 02 14:46	0° Q	
min. Earth dist.	15467 Apr 10 12:54	29° A 57'24	0.36570 AU				
direct	15467 May 08 16:15	25° A 22'13		conjunction	15472 Jul 20 15:14	12° Q 44'24	-0°25'11
	15467 Jun 04 09:42	0° M		minimum elong	15472 Jul 20 16:32	12° Q 46'44	0°25'54
	15467 Aug 02 19:44	0° J			15472 Aug 13 10:37	0° P	
	15467 Sep 18 22:19	0° Z		asc. node	15472 Aug 27 22:06	10° P 43'38	
desc. node	15467 Nov 02 07:55	28° Z 57'41		morning rise	15472 Sep 15 05:52	24° P 32'16	
	15467 Nov 03 22:14	0° \approx			15472 Sep 22 09:45	0° A	
	15467 Dec 20 10:06	0° H			15472 Oct 31 02:15	0° M	
	15468 Feb 05 15:11	0° Y			15472 Dec 08 06:11	0° J	
evening set	15468 Mar 21 16:21	28° Y 24'24			15473 Jan 15 19:41	0° Z	
	15468 Mar 24 05:00	0° B			15473 Feb 24 21:00	0° \approx	
max. Earth dist.	15468 Apr 28 09:48	22° B 15'39	2.68154 AU		15473 Apr 08 21:30	0° H	
					15473 May 28 04:54	0° Y	
conjunction	15468 May 04 09:11	26° B 03'29	-1°12'37	desc. node	15473 Jun 25 04:46	13° Y 37'23	
minimum elong	15468 May 04 08:52	26° B 02'59	1°13'19	retrograde	15473 Aug 11 02:19	24° Y 55'58	
	15468 May 10 13:46	0° II		min. Earth dist.	15473 Sep 17 22:20	16° Y 07'47	0.66205 AU
morning rise	15468 Jun 16 14:05	23° II 45'47		opposition	15473 Sep 20 21:39	14° Y 57'14	-3°13'24
	15468 Jun 26 04:42	0° D		greatest brilliancy	15473 Sep 20 12:04	15° Y 06'43	-1.4m
	15468 Aug 10 16:51	0° Q		direct	15473 Oct 30 20:14	5° Y 35'24	
	15468 Sep 23 21:47	0° P			15474 Jan 17 15:25	0° B	
	15468 Nov 05 19:32	0° A			15474 Mar 13 08:15	0° II	
asc. node	15468 Nov 23 17:00	12° A 44'48			15474 Apr 30 10:06	0° D	
	15468 Dec 17 17:43	0° M			15474 Jun 13 16:47	0° Q	
	15469 Jan 28 17:35	0° J		asc. node	15474 Jul 15 14:01	22° Q 54'26	
	15469 Mar 15 01:48	0° Z		evening set	15474 Jul 18 07:12	24° Q 54'20	
retrograde	15469 May 20 16:12	24° Z 29'02			15474 Jul 25 04:16	0° P	

max. Earth dist.	15474 Aug 05 08:23	8°  21'56	2.39709 AU		15479 May 08 11:21	0° 	
	15474 Sep 02 15:01	0° 			15479 Jun 26 07:50	0° 	
					15479 Aug 17 10:11	0° 	
conjunction	15474 Sep 18 20:47	12°  40'07	0°42'58		15479 Oct 18 21:38	0° 	
minimum elong	15474 Sep 18 17:16	12°  33'12	0°43'02	retrograde	15479 Dec 03 04:40	9°  15'47	
	15474 Oct 10 20:12	0° 		opposition	15480 Jan 08 02:49	2°  16'23	-2°58'02
	15474 Nov 17 16:24	0° 		greatest brilliancy	15480 Jan 09 02:36	1°  15'44	-2.0m
morning rise	15474 Dec 01 23:05	11°  15'01			15480 Jan 14 08:16	30°  15'47	
	15474 Dec 26 01:12	0° 		min. Earth dist.	15480 Jan 16 07:27	29°  17'41	0.53165 AU
	15475 Feb 03 19:52	0° 		direct	15480 Feb 16 07:27	23°  03'05	
	15475 Mar 17 21:03	0° 		asc. node	15480 Mar 06 23:05	25°  03'15	
	15475 May 02 06:37	0° 			15480 Mar 21 02:35	0° 	
desc. node	15475 May 13 01:27	6°  42'17			15480 May 15 18:10	0° 	
	15475 Jun 22 14:12	0° 			15480 Jun 27 10:30	0° 	
retrograde	15475 Sep 14 02:36	27°  15'36			15480 Aug 06 02:05	0° 	
opposition	15475 Oct 24 17:43	18°  13'17	-4°38'20		15480 Sep 14 05:12	0° 	
greatest brilliancy	15475 Oct 24 20:05	18°  10'58	-1.2m		15480 Oct 24 03:50	0° 	
min. Earth dist.	15475 Oct 25 15:39	17°  11'43	0.68617 AU		15480 Dec 04 16:36	0° 	
direct	15475 Dec 05 04:40	8°  18'33		desc. node	15480 Dec 31 21:30	18°  18'33	
	15476 Feb 15 00:20	0° 			15481 Jan 17 02:50	0° 	
	15476 Apr 08 04:33	0° 		evening set	15481 Jan 28 01:51	7°  18'33	
	15476 May 23 17:37	0° 			15481 Mar 03 08:29	0° 	
asc. node	15476 Jun 01 11:10	6°  06'11					
	15476 Jul 04 09:44	0° 		conjunction	15481 Mar 17 06:04	9°  01'17	-0°41'58
	15476 Aug 12 17:11	0° 		minimum elong	15481 Mar 17 04:46	8°  01'17	0°42'01
	15476 Sep 19 18:43	0° 		max. Earth dist.	15481 Mar 29 14:07	16°  01'17	2.65683 AU
evening set	15476 Sep 24 08:17	3°  13'36			15481 Apr 19 00:06	0° 	
	15476 Oct 27 14:20	0° 		morning rise	15481 Apr 30 21:37	7°  13'36	
	15476 Dec 05 02:15	0° 			15481 Jun 05 14:51	0° 	
					15481 Jul 23 22:38	0° 	
conjunction	15476 Dec 06 03:08	0°  13'36	1°00'42		15481 Sep 11 05:18	0° 	
minimum elong	15476 Dec 06 05:59	0°  13'36	1°01'35		15481 Nov 01 22:44	0° 	
	15477 Jan 14 01:35	0° 			15482 Jan 05 13:44	0° 	
max. Earth dist.	15477 Jan 25 20:07	8°  13'36	2.44162 AU	asc. node	15482 Jan 23 06:37	4°  13'36	
morning rise	15477 Feb 08 05:28	18°  13'36		retrograde	15482 Feb 05 07:56	5°  13'36	
	15477 Feb 25 02:45	0° 			15482 Mar 07 18:21	30°  13'36	
desc. node	15477 Mar 29 16:03	22°  13'36		opposition	15482 Mar 08 01:57	29°  13'36	3°02'35
	15477 Apr 10 16:41	0° 		greatest brilliancy	15482 Mar 08 17:53	29°  13'36	-2.8m
	15477 May 28 08:45	0° 		min. Earth dist.	15482 Mar 14 14:05	28°  13'36	0.39448 AU
	15477 Jul 20 01:05	0° 		direct	15482 Apr 09 17:04	23°  13'36	
	15477 Oct 06 00:42	0° 			15482 May 10 21:38	0° 	
retrograde	15477 Oct 19 10:31	1°  13'36			15482 Jul 04 22:04	0° 	
	15477 Nov 01 06:53	30°  13'36			15482 Aug 18 02:35	0° 	
opposition	15477 Nov 27 13:14	22°  13'36	-4°46'21		15482 Sep 30 04:55	0° 	
greatest brilliancy	15477 Nov 28 08:37	21°  13'36	-1.4m		15482 Nov 13 02:30	0° 	
min. Earth dist.	15477 Dec 02 09:03	20°  13'36	0.64151 AU	desc. node	15482 Nov 18 19:49	3°  13'36	
direct	15478 Jan 07 23:17	12°  13'36			15482 Dec 28 07:41	0° 	
	15478 Mar 10 05:52	0° 			15483 Feb 12 18:15	0° 	
asc. node	15478 Apr 19 14:30	22°  13'36		evening set	15483 Mar 08 17:50	15°  13'36	
	15478 Apr 30 18:17	0° 			15483 Mar 31 22:43	0° 	
	15478 Jun 12 22:47	0° 		max. Earth dist.	15483 Apr 20 18:46	12°  13'36	2.68544 AU
	15478 Jul 22 17:35	0° 					
	15478 Aug 30 00:56	0° 		conjunction	15483 Apr 22 00:04	13°  13'36	-1°08'41
	15478 Oct 07 03:45	0° 		minimum elong	15483 Apr 21 23:16	13°  13'36	1°09'15
	15478 Nov 15 02:16	0° 			15483 May 18 06:22	0° 	
evening set	15478 Dec 07 23:27	17°  13'36		morning rise	15483 Jun 03 23:28	10°  13'36	
	15478 Dec 25 14:30	0° 			15483 Jul 04 04:16	0° 	
					15483 Aug 19 08:01	0° 	
conjunction	15479 Feb 03 20:23	28°  13'36	0°06'27		15483 Oct 03 14:20	0° 	
minimum elong	15479 Feb 03 20:46	28°  13'36	0°07'00		15483 Nov 17 01:01	0° 	
behind sun begin	15479 Feb 03 00:24	27°  13'36		asc. node	15483 Dec 11 08:38	16°  13'36	
behind sun end	15479 Feb 04 17:08	29°  13'36			15483 Dec 31 06:54	0° 	
	15479 Feb 06 02:50	0° 			15484 Feb 15 21:33	0° 	
desc. node	15479 Feb 14 05:52	5°  13'36		retrograde	15484 Apr 26 11:50	26°  13'36	
max. Earth dist.	15479 Mar 04 18:49	18°  13'36	2.57342 AU	min. Earth dist.	15484 May 22 08:18	21°  13'36	0.38902 AU
	15479 Mar 22 18:24	0° 		greatest brilliancy	15484 May 27 08:06	20°  13'36	-2.8m
morning rise	15479 Mar 26 08:19	2°  13'36		opposition	15484 May 28 16:32	20°  13'36	6°42'37

direct	15484 Jun 27 15:44	14° ♁ 47'48		conjunction	15489 Aug 23 06:11	16° ♁ 22'03	0°15'10
	15484 Aug 21 04:43	0° ♁		minimum elong	15489 Aug 23 05:02	16° ♁ 19'51	0°14'50
desc. node	15484 Oct 06 02:42	24° ♁ 20'12		behind sun begin	15489 Aug 22 18:32	15° ♁ 59'56	
	15484 Oct 15 21:48	0° ♁		behind sun end	15489 Aug 23 15:32	16° ♁ 39'46	
	15484 Dec 05 02:13	0° ♁			15489 Sep 10 01:31	0° ♁	
	15485 Jan 23 03:31	0° ♁			15489 Oct 18 10:30	0° ♁	
	15485 Mar 12 14:58	0° ♁		morning rise	15489 Oct 30 05:18	9° ♁ 18'49	
evening set	15485 Apr 12 00:44	19° ♁ 04'07			15489 Nov 25 08:56	0° ♁	
	15485 Apr 29 06:22	0° ♁			15490 Jan 02 18:14	0° ♁	
max. Earth dist.	15485 May 12 05:26	8° ♁ 17'21	2.65872 AU		15490 Feb 11 13:08	0° ♁	
					15490 Mar 25 18:22	0° ♁	
conjunction	15485 May 25 19:33	17° ♁ 03'14	-1°10'59		15490 May 10 23:11	0° ♁	
minimum elong	15485 May 25 20:06	17° ♁ 04'09	1°11'51	desc. node	15490 May 29 18:21	11° ♁ 06'43	
	15485 Jun 14 15:47	0° ♁			15490 Jul 05 05:53	0° ♁	
morning rise	15485 Jul 09 11:47	16° ♁ 28'55		retrograde	15490 Aug 31 20:36	15° ♁ 27'13	
	15485 Jul 29 11:35	0° ♁		opposition	15490 Oct 11 17:09	5° ♁ 38'40	-4°14'27
	15485 Sep 10 14:56	0° ♁		min. Earth dist.	15490 Oct 11 02:23	5° ♁ 53'16	0.68494 AU
	15485 Oct 22 03:24	0° ♁		greatest brilliancy	15490 Oct 11 13:36	5° ♁ 42'11	-1.2m
asc. node	15485 Oct 28 03:58	4° ♁ 26'21			15490 Oct 27 02:32	30° ♁	
	15485 Dec 01 09:04	0° ♁		direct	15490 Nov 21 17:49	25° ♁ 53'45	
	15486 Jan 10 01:02	0° ♁			15490 Dec 19 16:32	0° ♁	
	15486 Feb 19 11:53	0° ♁			15491 Feb 26 05:48	0° ♁	
	15486 Apr 04 17:29	0° ♁			15491 Apr 17 13:46	0° ♁	
retrograde	15486 Jun 20 01:28	29° ♁ 21'25			15491 Jun 01 10:30	0° ♁	
min. Earth dist.	15486 Jul 20 12:58	23° ♁ 00'28	0.52195 AU	asc. node	15491 Jun 19 03:22	12° ♁ 32'50	
opposition	15486 Jul 28 08:24	20° ♁ 05'07	1°21'50		15491 Jul 12 23:13	0° ♁	
greatest brilliancy	15486 Jul 27 23:13	20° ♁ 13'43	-2.1m		15491 Aug 21 06:57	0° ♁	
desc. node	15486 Aug 24 11:56	12° ♁ 51'14		evening set	15491 Aug 26 05:48	3° ♁ 51'40	
direct	15486 Sep 01 13:55	12° ♁ 25'49			15491 Sep 28 09:05	0° ♁	
	15486 Nov 03 11:23	0° ♁			15491 Nov 05 04:08	0° ♁	
	15486 Dec 31 12:40	0° ♁					
	15487 Feb 21 03:27	0° ♁		conjunction	15491 Nov 06 15:46	1° ♁ 10'24	1°07'36
	15487 Apr 10 22:21	0° ♁		minimum elong	15491 Nov 06 15:16	1° ♁ 09'25	1°08'21
evening set	15487 May 17 22:06	23° ♁ 45'27			15491 Dec 13 13:50	0° ♁	
	15487 May 27 09:42	0° ♁		max. Earth dist.	15491 Dec 29 01:17	11° ♁ 48'49	2.38545 AU
max. Earth dist.	15487 Jun 06 08:52	6° ♁ 37'54	2.57857 AU	morning rise	15492 Jan 16 19:38	25° ♁ 52'07	
					15492 Jan 22 10:01	0° ♁	
conjunction	15487 Jul 03 18:10	25° ♁ 14'24	-0°44'32		15492 Mar 04 09:12	0° ♁	
minimum elong	15487 Jul 03 19:46	25° ♁ 17'09	0°45'22	desc. node	15492 Apr 15 11:00	28° ♁ 17'07	
	15487 Jul 10 15:04	0° ♁			15492 Apr 18 02:27	0° ♁	
	15487 Aug 21 17:39	0° ♁			15492 Jun 05 14:36	0° ♁	
morning rise	15487 Aug 24 05:32	1° ♁ 49'22			15492 Aug 01 00:13	0° ♁	
asc. node	15487 Sep 14 18:25	17° ♁ 45'06		retrograde	15492 Oct 04 16:33	17° ♁ 58'50	
	15487 Oct 01 00:33	0° ♁		opposition	15492 Nov 13 13:44	8° ♁ 45'16	-4°53'18
	15487 Nov 09 00:03	0° ♁		greatest brilliancy	15492 Nov 14 02:36	8° ♁ 32'43	-1.3m
	15487 Dec 17 09:30	0° ♁		min. Earth dist.	15492 Nov 16 20:53	7° ♁ 28'07	0.66735 AU
	15488 Jan 25 03:51	0° ♁			15492 Dec 11 01:06	30° ♁	
	15488 Mar 05 13:33	0° ♁		direct	15492 Dec 25 05:08	28° ♁ 42'56	
	15488 Apr 18 15:36	0° ♁			15493 Jan 08 23:23	0° ♁	
	15488 Jun 12 08:03	0° ♁			15493 Mar 23 02:35	0° ♁	
desc. node	15488 Jul 11 17:49	9° ♁ 36'56		asc. node	15493 May 06 05:08	27° ♁ 25'03	
retrograde	15488 Jul 28 11:16	11° ♁ 21'13			15493 May 10 01:27	0° ♁	
min. Earth dist.	15488 Sep 02 12:16	3° ♁ 07'07	0.63439 AU		15493 Jun 21 09:40	0° ♁	
opposition	15488 Sep 06 23:02	1° ♁ 21'51	-2°18'36		15493 Jul 30 21:35	0° ♁	
greatest brilliancy	15488 Sep 06 12:51	1° ♁ 31'54	-1.5m		15493 Sep 07 01:03	0° ♁	
	15488 Sep 10 10:43	30° ♁			15493 Oct 14 23:37	0° ♁	
direct	15488 Oct 15 21:43	22° ♁ 20'16		evening set	15493 Nov 11 11:30	21° ♁ 24'37	
	15488 Nov 24 09:45	0° ♁			15493 Nov 22 16:28	0° ♁	
	15489 Jan 28 09:24	0° ♁			15494 Jan 01 22:03	0° ♁	
	15489 Mar 21 08:17	0° ♁					
	15489 May 07 16:51	0° ♁		conjunction	15494 Jan 14 12:15	9° ♁ 06'06	0°29'07
	15489 Jun 20 20:25	0° ♁		minimum elong	15494 Jan 14 14:06	9° ♁ 09'25	0°29'51
evening set	15489 Jun 28 02:20	5° ♁ 06'28			15494 Feb 13 04:21	0° ♁	
max. Earth dist.	15489 Jul 11 14:23	14° ♁ 45'47	2.45203 AU	max. Earth dist.	15494 Feb 20 14:20	5° ♁ 06'24	2.52661 AU
asc. node	15489 Aug 01 07:45	29° ♁ 54'53		desc. node	15494 Mar 02 23:28	12° ♁ 10'38	
	15489 Aug 01 10:30	0° ♁		morning rise	15494 Mar 10 03:10	17° ♁ 00'03	
					15494 Mar 29 17:03	0° ♁	

	15494 May 15 14:54	0°♄		desc. node	15499 Oct 23 13:43	26°♄54'25	
	15494 Jul 04 10:15	0°♂			15499 Oct 28 11:09	0°♂	
	15494 Aug 28 21:28	0°♄			15499 Dec 14 22:21	0°♄	
retrograde	15494 Nov 14 04:04	23°♄47'36			15500 Jan 31 16:17	0°♄	
opposition	15494 Dec 21 14:20	15°♄35'56 -3°59'41			15500 Mar 20 12:36	0°♄	
greatest brilliancy	15494 Dec 22 15:59	15°♄11'48 -1.7m		evening set	15500 Mar 30 11:33	6°♄15'42	
min. Earth dist.	15494 Dec 28 15:28	12°♄57'04 0.58177 AU		max. Earth dist.	15500 May 04 09:46	28°♄21'58 2.67562 AU	
direct	15495 Jan 31 00:30	5°♄53'50			15500 May 06 23:18	0°♂	
asc. node	15495 Mar 24 10:54	20°♄27'10					
	15495 Apr 11 14:47	0°♂		conjunction	15500 May 13 02:04	3°♂54'15 -1°13'12	
	15495 May 28 11:05	0°♄		minimum elong	15500 May 13 02:03	3°♂54'14 1°13'59	
	15495 Jul 08 09:35	0°♄			15500 Jun 22 11:53	0°♄	
	15495 Aug 16 06:40	0°♄		morning rise	15500 Jun 25 15:47	2°♄04'02	
	15495 Sep 23 20:37	0°♄			15500 Aug 06 17:44	0°♂	
	15495 Nov 02 06:46	0°♄			15500 Sep 19 12:44	0°♄	
	15495 Dec 13 07:14	0°♂			15500 Oct 31 20:55	0°♄	
evening set	15496 Jan 10 20:54	20°♄05'57		asc. node	15500 Nov 14 21:34	10°♄08'27	
desc. node	15496 Jan 18 14:39	25°♄26'10			15500 Dec 12 01:28	0°♄	
	15496 Jan 25 06:39	0°♄			15501 Jan 21 22:10	0°♄	
					15501 Mar 05 12:17	0°♄	
conjunction	15496 Mar 01 22:53	24°♄35'02 -0°25'35			15501 Apr 27 04:04	0°♂	
minimum elong	15496 Mar 01 21:53	24°♄33'22 0°25'24		retrograde	15501 Jun 02 10:53	8°♄29'24	
	15496 Mar 10 04:46	0°♄		min. Earth dist.	15501 Jun 30 13:25	3°♄02'18 0.46664 AU	
max. Earth dist.	15496 Mar 20 06:36	6°♄34'22 2.63045 AU		opposition	15501 Jul 08 23:21	0°♄04'16 3°25'01	
morning rise	15496 Apr 17 06:42	24°♄35'38		greatest brilliancy	15501 Jul 07 23:36	0°♄25'16 -2.3m	
	15496 Apr 25 18:41	0°♄			15501 Jul 09 04:12	30°♄	
	15496 Jun 12 17:07	0°♂		direct	15501 Aug 11 03:50	23°♄14'35	
	15496 Aug 01 00:52	0°♄		desc. node	15501 Sep 10 22:38	28°♄30'12	
	15496 Sep 21 20:25	0°♂			15501 Sep 15 13:03	0°♂	
	15496 Nov 21 16:37	0°♄			15501 Nov 18 19:33	0°♄	
retrograde	15497 Jan 07 12:02	10°♄47'08			15502 Jan 10 14:30	0°♄	
asc. node	15497 Feb 08 18:46	4°♄39'02			15502 Mar 01 15:08	0°♄	
opposition	15497 Feb 09 09:27	4°♄26'58 0°02'19			15502 Apr 18 20:30	0°♂	
greatest brilliancy	15498 Feb 19 00:11	29°♄30'31 1.8m		evening set	15502 May 04 13:24	10°♂01'11	
min. Earth dist.	15497 Feb 17 20:01	1°♄40'37 0.44460 AU		max. Earth dist.	15502 May 27 20:58	25°♂09'12 2.61605 AU	
	15497 Feb 23 10:16	30°♄			15502 Jun 04 05:41	0°♄	
direct	15497 Mar 17 05:14	26°♄43'08					
	15497 Apr 08 04:53	0°♄		conjunction	15502 Jun 18 16:30	9°♄36'54 -0°58'38	
	15497 Jun 06 10:29	0°♄		minimum elong	15502 Jun 18 17:52	9°♄39'11 0°59'31	
	15497 Jul 19 14:48	0°♄			15502 Jul 18 15:31	0°♂	
	15497 Aug 29 14:37	0°♄		morning rise	15502 Aug 05 15:40	12°♄33'40	
	15497 Oct 09 22:14	0°♄			15502 Aug 30 02:16	0°♄	
	15497 Nov 21 14:07	0°♂		asc. node	15502 Oct 02 13:39	24°♄35'54	
desc. node	15497 Dec 05 11:11	9°♄30'50			15502 Oct 09 18:42	0°♄	
	15498 Jan 04 22:03	0°♄			15502 Nov 18 03:18	0°♄	
	15498 Feb 19 18:27	0°♄			15502 Dec 26 20:58	0°♄	
evening set	15498 Feb 22 02:40	1°♄30'40			15503 Feb 04 00:15	0°♄	
	15498 Apr 07 15:53	0°♄			15503 Mar 17 02:40	0°♂	
					15503 May 02 11:02	0°♄	
conjunction	15498 Apr 08 10:34	0°♄29'40 -1°01'06		retrograde	15503 Jul 16 03:19	26°♄38'30	
minimum elong	15498 Apr 08 09:24	0°♄27'50 1°01'29		desc. node	15503 Jul 30 06:40	25°♄14'09	
max. Earth dist.	15498 Apr 12 07:16	2°♄56'49 2.68066 AU		min. Earth dist.	15503 Aug 19 03:58	19°♄03'41 0.59700 AU	
morning rise	15498 May 21 16:39	27°♄53'52		opposition	15503 Aug 25 00:56	16°♄46'02 -1°08'20	
	15498 May 25 00:22	0°♂		greatest brilliancy	15503 Aug 24 18:12	16°♄52'37 -1.7m	
	15498 Jul 11 08:07	0°♄		direct	15503 Oct 01 17:52	8°♄10'32	
	15498 Aug 27 09:16	0°♂			15503 Dec 13 22:03	0°♄	
	15498 Oct 13 05:00	0°♄			15504 Feb 08 13:26	0°♄	
	15498 Nov 29 08:26	0°♄			15504 Mar 29 21:28	0°♂	
asc. node	15498 Dec 28 00:31	17°♄38'27			15504 May 15 19:16	0°♄	
	15499 Jan 18 09:33	0°♄		evening set	15504 Jun 11 08:43	17°♄50'36	
retrograde	15499 Mar 28 21:56	24°♄03'12		max. Earth dist.	15504 Jun 25 23:36	27°♄56'10 2.50603 AU	
min. Earth dist.	15499 Apr 25 23:44	19°♄29'50 0.36438 AU			15504 Jun 28 22:32	0°♂	
opposition	15499 Apr 27 16:35	19°♄02'41 7°08'15					
greatest brilliancy	15499 Apr 27 06:13	19°♄09'35 -3.0m		conjunction	15504 Aug 01 18:36	24°♄11'19 -0°11'48	
direct	15499 May 26 16:29	14°♄14'10		minimum elong	15504 Aug 01 19:20	24°♄12'40 0°12'23	
	15499 Jul 19 17:52	0°♄		behind sun begin	15504 Aug 01 04:09	23°♄44'58	
	15499 Sep 10 13:03	0°♄		behind sun end	15504 Aug 02 10:32	24°♄40'24	

	15504 Aug 09 16:48	0°♍			15509 Sep 15 04:36	0°♎	
asc. node	15504 Aug 19 04:04	7°♍00'56		retrograde	15509 Oct 29 07:35	9°♎18'36	
	15504 Sep 18 13:12	0°♎		opposition	15509 Dec 06 21:50	0°♎38'21	-4°34'52
morning rise	15504 Oct 01 01:39	9°♎39'22		greatest brilliancy	15509 Dec 07 20:13	0°♎16'53	-1.5m
	15504 Oct 27 02:45	0°♏			15509 Dec 08 13:48	30°♏II	
	15504 Dec 04 04:10	0°♐		min. Earth dist.	15509 Dec 12 13:28	28°♏28'23	0.62303 AU
	15505 Jan 11 15:06	0°♑		direct	15510 Jan 17 01:55	20°♏41'25	
	15505 Feb 20 12:12	0°♒			15510 Feb 27 16:45	0°♎	
	15505 Apr 04 02:13	0°♓		asc. node	15510 Apr 10 23:39	21°♎22'03	
	15505 May 21 18:28	0°♑			15510 Apr 25 02:50	0°♏	
desc. node	15505 Jun 16 08:26	13°♑46'23			15510 Jun 08 05:31	0°♍	
	15505 Jul 28 10:08	0°♒			15510 Jul 18 08:04	0°♎	
retrograde	15505 Aug 19 17:14	2°♒52'08			15510 Aug 25 19:03	0°♏	
	15505 Sep 09 15:14	30°♒♑			15510 Oct 03 00:44	0°♐	
min. Earth dist.	15505 Sep 27 11:19	23°♑46'19	0.67320 AU		15510 Nov 11 02:12	0°♑	
opposition	15505 Sep 29 14:16	22°♑55'54	-3°39'34		15510 Dec 21 17:28	0°♒	
greatest brilliancy	15505 Sep 29 06:15	23°♑03'51	-1.3m	evening set	15510 Dec 22 03:17	0°♒17'41	
direct	15505 Nov 08 23:21	13°♑24'40			15511 Feb 02 08:36	0°♓	
	15506 Jan 10 00:30	0°♒		desc. node	15511 Feb 05 08:20	2°♓03'01	
	15506 Mar 08 14:25	0°♏					
	15506 Apr 26 08:58	0°♎		conjunction	15511 Feb 15 04:57	8°♓45'57	-0°06'05
	15506 Jun 09 20:40	0°♏		minimum elong	15511 Feb 15 04:39	8°♓45'27	0°05'40
asc. node	15506 Jul 06 19:57	19°♏16'58		behind sun begin	15511 Feb 14 08:22	8°♓11'05	
	15506 Jul 21 09:09	0°♍		behind sun end	15511 Feb 16 00:57	9°♓19'47	
evening set	15506 Aug 01 02:39	8°♍02'07		max. Earth dist.	15511 Mar 12 01:15	25°♓23'20	2.59603 AU
	15506 Aug 29 19:16	0°♎			15511 Mar 19 01:13	0°♑	
max. Earth dist.	15506 Aug 31 14:47	1°♎24'32	2.37110 AU	morning rise	15511 Apr 04 22:49	11°♑00'51	
					15511 May 04 15:44	0°♒	
conjunction	15506 Oct 06 15:19	29°♎43'53	0°56'10		15511 Jun 22 01:51	0°♏	
minimum elong	15506 Oct 06 11:29	29°♎36'18	0°56'30		15511 Aug 11 21:15	0°♎	
	15506 Oct 06 23:27	0°♏			15511 Oct 07 11:24	0°♏	
	15506 Nov 13 19:00	0°♐		retrograde	15511 Dec 16 06:39	20°♏30'10	
morning rise	15506 Dec 20 15:12	28°♐50'13		opposition	15512 Jan 20 04:14	13°♏18'43	-2°05'43
	15506 Dec 22 03:22	0°♑		greatest brilliancy	15512 Jan 20 22:46	13°♏02'16	-2.1m
	15507 Jan 30 21:13	0°♒		min. Earth dist.	15512 Jan 28 17:18	10°♏17'07	0.50134 AU
	15507 Mar 13 19:49	0°♓		direct	15512 Feb 27 09:38	4°♏29'52	
	15507 Apr 27 20:05	0°♑		asc. node	15512 Feb 27 07:12	4°♏29'52	
desc. node	15507 May 04 04:01	4°♑00'55			15512 May 07 13:37	0°♍	
	15507 Jun 16 17:34	0°♒			15512 Jun 21 10:42	0°♎	
	15507 Aug 21 10:33	0°♏			15512 Jul 31 21:06	0°♏	
retrograde	15507 Sep 22 19:34	5°♏26'49			15512 Sep 09 11:17	0°♐	
	15507 Oct 22 11:25	30°♒♒			15512 Oct 19 18:29	0°♑	
opposition	15507 Nov 02 05:35	25°♒57'02	-4°47'22		15512 Nov 30 14:20	0°♒	
greatest brilliancy	15507 Nov 02 11:39	25°♒51'06	-1.2m	desc. node	15512 Dec 23 01:43	15°♒35'52	
min. Earth dist.	15507 Nov 04 00:09	25°♒15'16	0.68240 AU		15513 Jan 13 06:28	0°♓	
direct	15507 Dec 13 19:26	15°♒58'17		evening set	15513 Feb 07 12:37	16°♓48'59	
	15508 Feb 06 19:06	0°♏			15513 Feb 27 15:56	0°♑	
	15508 Apr 03 05:14	0°♎					
	15508 May 19 11:12	0°♏		conjunction	15513 Mar 26 11:45	17°♑18'49	-0°50'03
asc. node	15508 May 23 18:11	2°♏57'45		minimum elong	15513 Mar 26 10:26	17°♑16'42	0°50'12
	15508 Jun 30 08:38	0°♍		max. Earth dist.	15513 Apr 04 18:02	23°♑14'14	2.66763 AU
	15508 Aug 08 17:38	0°♎			15513 Apr 15 08:43	0°♒	
	15508 Sep 15 19:41	0°♏		morning rise	15513 May 09 11:48	15°♒17'15	
evening set	15508 Oct 13 01:59	21°♏38'06			15513 Jun 01 20:17	0°♏	
	15508 Oct 23 16:05	0°♐			15513 Jul 19 17:42	0°♎	
	15508 Dec 01 05:11	0°♑			15513 Sep 06 00:52	0°♏	
					15513 Oct 25 09:14	0°♍	
conjunction	15508 Dec 22 11:59	16°♑07'17	0°50'55		15513 Dec 17 17:36	0°♎	
minimum elong	15508 Dec 22 15:05	16°♑13'04	0°51'47	asc. node	15514 Jan 14 13:43	12°♎49'03	
	15509 Jan 10 05:45	0°♒		retrograde	15514 Feb 24 16:52	22°♎00'19	
max. Earth dist.	15509 Feb 06 11:38	19°♒36'41	2.47311 AU	opposition	15514 Mar 26 10:07	17°♎00'46	4°55'18
morning rise	15509 Feb 20 19:03	29°♒38'18		greatest brilliancy	15514 Mar 27 01:03	16°♎50'29	-2.9m
	15509 Feb 21 07:33	0°♓		min. Earth dist.	15514 Mar 30 13:41	15°♎52'17	0.37482 AU
desc. node	15509 Mar 20 19:17	18°♓44'27		direct	15514 Apr 26 07:57	11°♎31'46	
	15509 Apr 06 19:10	0°♑			15514 Jun 22 14:45	0°♏	
	15509 May 24 01:48	0°♒			15514 Aug 10 12:17	0°♐	
	15509 Jul 14 08:40	0°♏			15514 Sep 24 09:25	0°♑	

	15514 Nov 08 06:43	0°≈		morning rise	15519 Sep 06 16:31	14°♐36'22	
desc. node	15514 Nov 10 02:31	1°≈12'29			15519 Sep 27 02:02	0°♊	
	15514 Dec 24 02:51	0°♋			15519 Nov 04 21:57	0°♌	
	15515 Feb 08 22:24	0°♍			15519 Dec 13 04:15	0°♎	
evening set	15515 Mar 17 17:42	23°♏18'54			15520 Jan 20 19:07	0°♐	
	15515 Mar 28 07:30	0°♑			15520 Feb 29 22:03	0°≈	
max. Earth dist.	15515 Apr 26 17:15	18°♒36'22	2.68436 AU		15520 Apr 13 05:21	0°♋	
					15520 Jun 02 22:44	0°♍	
conjunction	15515 Apr 30 14:56	21°♒04'55	-1°11'29	desc. node	15520 Jul 02 23:30	13°♏07'44	
minimum elong	15515 Apr 30 14:24	21°♒04'04	1°12'07	retrograde	15520 Aug 06 08:07	19°♏42'27	
	15515 May 14 15:50	0°♐		min. Earth dist.	15520 Sep 12 09:14	11°♏08'45	0.65084 AU
morning rise	15515 Jun 12 15:55	18°♑32'43		opposition	15520 Sep 16 00:11	9°♏42'46	-2°52'34
	15515 Jun 30 10:03	0°♒		greatest brilliancy	15520 Sep 15 13:49	9°♏53'01	-1.4m
	15515 Aug 15 05:22	0°♓		direct	15520 Oct 25 12:08	0°♏29'26	
	15515 Sep 28 21:17	0°♐			15521 Jan 22 12:49	0°♑	
	15515 Nov 11 09:56	0°♊			15521 Mar 17 00:18	0°♐	
asc. node	15515 Dec 02 15:55	14°♊52'22			15521 May 03 19:53	0°♒	
	15515 Dec 24 04:17	0°♌			15521 Jun 17 02:37	0°♓	
	15516 Feb 05 13:09	0°♎		evening set	15521 Jul 10 02:48	16°♓23'25	
	15516 Mar 26 05:32	0°♐		asc. node	15521 Jul 23 13:52	26°♓13'28	
retrograde	15516 May 11 16:30	13°♐19'10		max. Earth dist.	15521 Jul 24 17:27	27°♓04'19	2.42134 AU
min. Earth dist.	15516 Jun 06 22:32	8°♐41'04	0.41340 AU		15521 Jul 28 16:27	0°♐	
greatest brilliancy	15516 Jun 13 05:22	6°♐40'47	-2.7m		15521 Sep 06 05:55	0°♊	
opposition	15516 Jun 14 15:35	6°♐13'18	5°39'03				
direct	15516 Jul 15 15:27	0°♐21'57		conjunction	15521 Sep 07 15:10	1°♊04'19	0°31'17
desc. node	15516 Sep 27 09:07	24°♐28'23		minimum elong	15521 Sep 07 12:34	0°♊59'18	0°31'10
	15516 Oct 07 22:12	0°≈			15521 Oct 14 13:03	0°♌	
	15516 Nov 29 18:32	0°♋		morning rise	15521 Nov 18 12:23	27°♌42'18	
	15517 Jan 18 20:37	0°♍			15521 Nov 21 10:04	0°♎	
	15517 Mar 08 19:29	0°♑			15521 Dec 29 18:25	0°♐	
evening set	15517 Apr 20 18:35	26°♒54'28			15522 Feb 07 11:47	0°≈	
	15517 Apr 25 15:27	0°♐			15522 Mar 21 12:42	0°♋	
max. Earth dist.	15517 May 18 11:48	14°♐38'51	2.64590 AU		15522 May 06 02:42	0°♍	
				desc. node	15522 May 20 22:03	9°♏03'13	
conjunction	15517 Jun 03 20:43	25°♐17'44	-1°07'47		15522 Jun 27 13:09	0°♑	
minimum elong	15517 Jun 03 21:36	25°♐19'10	1°08'40	retrograde	15522 Sep 09 10:09	23°♒03'33	
	15517 Jun 11 00:44	0°♒		opposition	15522 Oct 20 04:01	13°♒20'56	-4°29'55
morning rise	15517 Jul 19 10:55	25°♒43'17		greatest brilliancy	15522 Oct 20 03:39	13°♒21'18	-1.2m
	15517 Jul 25 17:14	0°♓		min. Earth dist.	15522 Oct 20 09:47	13°♒15'15	0.68691 AU
	15517 Sep 06 14:43	0°♐		direct	15522 Nov 30 10:26	3°♒30'07	
	15517 Oct 17 19:52	0°♊			15523 Feb 20 04:05	0°♐	
asc. node	15517 Oct 19 09:23	1°♊09'34			15523 Apr 13 01:59	0°♒	
	15517 Nov 26 17:07	0°♌			15523 May 28 09:28	0°♓	
	15518 Jan 04 23:15	0°♎		asc. node	15523 Jun 10 09:58	9°♓08'56	
	15518 Feb 13 18:22	0°♐			15523 Jul 09 01:29	0°♐	
	15518 Mar 28 06:54	0°≈			15523 Aug 17 10:01	0°♊	
	15518 May 20 01:15	0°♋		evening set	15523 Sep 12 17:01	20°♊38'57	
retrograde	15518 Jun 30 15:32	10°♋13'20			15523 Sep 24 12:03	0°♌	
min. Earth dist.	15518 Aug 01 09:59	3°♋24'18	0.55050 AU		15523 Nov 01 07:09	0°♎	
opposition	15518 Aug 08 14:38	0°♋39'23	0°20'35				
greatest brilliancy	15518 Aug 08 12:29	0°♋41'27	-1.9m	conjunction	15523 Nov 25 03:36	18°♎43'29	1°05'43
	15518 Aug 10 08:02	30°♋≈		minimum elong	15523 Nov 25 05:27	18°♎47'05	1°06'34
	15518 Aug 15 17:29	28°≈01'40			15523 Dec 09 17:17	0°♐	
desc. node	15518 Sep 13 19:23	22°≈37'28		max. Earth dist.	15524 Jan 17 12:04	29°♐12'34	2.41586 AU
direct	15518 Oct 21 19:22	0°♋			15524 Jan 18 13:51	0°≈	
	15518 Dec 25 20:05	0°♍		morning rise	15524 Jan 31 12:22	9°≈25'58	
	15519 Feb 16 20:01	0°♑			15524 Feb 29 12:31	0°♋	
	15519 Apr 07 02:49	0°♐		desc. node	15524 Apr 06 13:22	25°♋04'29	
	15519 May 23 17:49	0°♒			15524 Apr 14 01:44	0°♍	
evening set	15519 May 27 11:00	2°♒27'40			15524 May 31 23:14	0°♑	
max. Earth dist.	15519 Jun 13 22:38	14°♒11'27	2.55455 AU		15524 Jul 24 18:27	0°♐	
	15519 Jul 06 22:45	0°♓		retrograde	15524 Oct 13 23:28	25°♐51'45	
				opposition	15524 Nov 22 11:00	16°♐48'57	-4°50'56
conjunction	15519 Jul 14 14:33	5°♓21'41	-0°34'04	greatest brilliancy	15524 Nov 23 03:38	16°♐32'49	-1.4m
minimum elong	15519 Jul 14 16:04	5°♓24'21	0°34'50	min. Earth dist.	15524 Nov 26 14:45	15°♐12'09	0.65427 AU
	15519 Aug 17 22:37	0°♐		direct	15525 Jan 02 23:53	6°♐46'44	
asc. node	15519 Sep 05 22:35	14°♐02'53			15525 Mar 16 07:51	0°♒	

asc. node	15525 Apr 27 11:54	24°☾59'01		minimum elong	15530 Apr 17 04:13	8°♄20'39	1°06'30
	15525 May 05 03:54	0°♈		max. Earth dist.	15530 Apr 18 05:50	9°♄01'15	2.68441 AU
	15525 Jun 17 00:18	0°♍			15530 May 21 08:14	0°♈	
	15525 Jul 26 16:53	0°♊		morning rise	15530 May 30 05:57	5°♈39'10	
	15525 Sep 02 22:41	0°♎			15530 Jul 07 10:25	0°☾	
	15525 Oct 10 23:18	0°♊			15530 Aug 22 23:26	0°♈	
	15525 Nov 18 18:31	0°♄			15530 Oct 07 20:54	0°♍	
evening set	15525 Nov 27 21:31	6°♄54'21			15530 Nov 22 07:45	0°♊	
	15525 Dec 29 02:27	0°♋		asc. node	15530 Dec 19 07:07	17°♊43'14	
					15531 Jan 07 08:25	0°♎	
conjunction	15526 Jan 27 08:30	20°♋53'18	0°16'01		15531 Feb 28 07:51	0°♊	
minimum elong	15526 Jan 27 09:28	20°♋55'00	0°16'37	retrograde	15531 Apr 16 05:31	12°♊57'40	
	15526 Feb 09 10:38	0°♋		min. Earth dist.	15531 May 12 12:17	8°♊40'00	0.37420 AU
desc. node	15526 Feb 22 03:13	8°♋42'16		greatest brilliancy	15531 May 16 01:06	7°♊41'05	-2.9m
max. Earth dist.	15526 Feb 28 18:42	13°♋12'42	2.55329 AU	opposition	15531 May 17 02:16	7°♊23'30	7°12'37
morning rise	15526 Mar 20 12:26	26°♋24'19		direct	15531 Jun 15 08:51	2°♊24'29	
	15526 Mar 25 23:14	0°♑			15531 Sep 01 05:10	0°♄	
	15526 May 11 16:41	0°♄		desc. node	15531 Oct 14 20:28	25°♄25'15	
	15526 Jun 29 20:30	0°♈			15531 Oct 22 09:48	0°♋	
	15526 Aug 22 01:19	0°☾			15531 Dec 10 04:37	0°♋	
	15526 Nov 01 09:03	0°♈			15532 Jan 27 14:24	0°♑	
retrograde	15526 Nov 25 15:09	3°♈10'27			15532 Mar 15 18:51	0°♄	
	15526 Dec 18 03:06	30°♋☾		evening set	15532 Apr 07 05:36	14°♄05'25	
opposition	15527 Jan 01 05:52	25°☾17'47	-3°27'52		15532 May 02 08:26	0°♈	
greatest brilliancy	15527 Jan 02 07:14	24°☾54'17	-1.8m	max. Earth dist.	15532 May 09 12:22	4°♈34'18	2.66738 AU
min. Earth dist.	15527 Jan 08 23:04	22°☾26'25	0.55494 AU				
direct	15527 Feb 10 01:05	15°☾49'12		conjunction	15532 May 20 20:50	11°♈51'16	-1°12'28
asc. node	15527 Mar 15 20:09	22°☾37'49		minimum elong	15532 May 20 21:08	11°♈51'47	1°13'17
	15527 Apr 01 23:24	0°♈			15532 Jun 17 19:47	0°☾	
	15527 May 22 11:10	0°♍		morning rise	15532 Jul 03 23:10	10°☾37'56	
	15527 Jul 03 07:00	0°♊			15532 Aug 01 20:48	0°♈	
	15527 Aug 11 13:25	0°♎			15532 Sep 14 07:30	0°♍	
	15527 Sep 19 09:36	0°♊			15532 Oct 26 04:56	0°♊	
	15527 Oct 29 01:28	0°♄		asc. node	15532 Nov 05 03:24	7°♊15'59	
	15527 Dec 09 07:14	0°♋			15532 Dec 05 20:02	0°♎	
desc. node	15528 Jan 09 18:18	21°♋59'51			15533 Jan 14 22:38	0°♊	
	15528 Jan 21 11:19	0°♋			15533 Feb 25 01:34	0°♄	
evening set	15528 Jan 22 10:59	0°♋40'12			15533 Apr 12 06:40	0°♋	
	15528 Mar 06 12:18	0°♑		retrograde	15533 Jun 13 08:17	21°♋13'28	
				min. Earth dist.	15533 Jul 12 17:21	15°♋16'12	0.49752 AU
conjunction	15528 Mar 11 19:06	3°♑26'52	-0°35'32	opposition	15533 Jul 20 21:34	12°♋16'45	2°11'57
minimum elong	15528 Mar 11 17:52	3°♑24'52	0°35'28	greatest brilliancy	15533 Jul 20 06:21	12°♋30'43	-2.2m
max. Earth dist.	15528 Mar 26 16:50	13°♑06'26	2.64616 AU	direct	15533 Aug 24 06:38	4°♋58'06	
	15528 Apr 22 02:14	0°♄		desc. node	15533 Sep 01 05:54	5°♋21'49	
morning rise	15528 Apr 26 02:21	2°♄32'36			15533 Nov 10 07:14	0°♋	
	15528 Jun 08 19:23	0°♈			15534 Jan 04 16:04	0°♑	
	15528 Jul 27 12:11	0°☾			15534 Feb 24 13:27	0°♄	
	15528 Sep 15 17:07	0°♈			15534 Apr 14 02:56	0°♈	
	15528 Nov 09 02:08	0°♍		evening set	15534 May 12 15:44	18°♈15'26	
retrograde	15529 Jan 23 23:51	24°♍26'22			15534 May 30 14:15	0°☾	
asc. node	15529 Jan 31 04:10	24°♍06'50		max. Earth dist.	15534 Jun 02 19:36	2°☾07'56	2.59636 AU
opposition	15529 Feb 24 17:31	18°♍37'32	1°39'06				
greatest brilliancy	15529 Feb 25 04:31	18°♍28'59	-2.7m	conjunction	15534 Jun 27 15:02	18°☾47'33	-0°51'08
min. Earth dist.	15529 Mar 04 10:35	16°♍14'41	0.41531 AU	minimum elong	15534 Jun 27 16:34	18°☾50'10	0°52'00
direct	15529 Mar 30 20:34	11°♍40'34			15534 Jul 13 22:50	0°♈	
	15529 May 26 04:37	0°♊		morning rise	15534 Aug 16 08:34	23°♈34'34	
	15529 Jul 12 08:07	0°♎			15534 Aug 25 06:01	0°♍	
	15529 Aug 23 17:30	0°♊		asc. node	15534 Sep 22 18:51	21°♍00'55	
	15529 Oct 04 20:51	0°♄			15534 Oct 04 18:00	0°♊	
	15529 Nov 17 02:33	0°♋			15534 Nov 12 21:49	0°♎	
desc. node	15529 Nov 26 14:59	6°♋28'05			15534 Dec 21 10:33	0°♊	
	15529 Dec 31 20:33	0°♋			15535 Jan 29 07:45	0°♄	
	15530 Feb 15 23:36	0°♑			15535 Mar 10 21:50	0°♋	
evening set	15530 Mar 03 13:22	9°♑58'38			15535 Apr 24 15:05	0°♋	
	15530 Apr 04 00:26	0°♄			15535 Jun 23 07:26	0°♑	
				desc. node	15535 Jul 20 12:01	5°♑35'10	
conjunction	15530 Apr 17 05:11	8°♄22'11	-1°06'02	retrograde	15535 Jul 24 10:52	5°♑41'22	

	15535 Aug 22 14:14	30° RH			15540 May 14 01:44	0° Ω	
min. Earth dist.	15535 Aug 28 14:38	27° $\text{H}43'54$	0.61882 AU		15540 Jun 25 06:12	0° M	
opposition	15535 Sep 02 16:41	25° $\text{H}43'51$	-1°51'34		15540 Aug 03 17:35	0° $\underline{\text{A}}$	
greatest brilliancy	15535 Sep 02 07:15	25° $\text{H}53'08$	-1.6m	greatest brilliancy	15540 Aug 29 23:31	20° $\underline{\text{A}}35'47$	1.1m
direct	15535 Oct 11 02:06	16° $\text{H}53'08$			15540 Sep 10 20:30	0° M	
	15535 Dec 03 22:27	0° Y			15540 Oct 18 17:35	0° J	
	15536 Feb 02 13:17	0° B		evening set	15540 Oct 30 13:09	9° $\text{J}16'25$	
	15536 Mar 24 19:31	0° II			15540 Nov 26 07:52	0° B	
	15536 May 11 00:29	0° B					
evening set	15536 Jun 21 03:56	27° $\text{B}51'53$		conjunction	15541 Jan 05 13:39	0° \approx 06'49	0°38'48
	15536 Jun 24 05:20	0° Ω		minimum elong	15541 Jan 05 16:10	0° \approx 11'25	0°39'36
max. Earth dist.	15536 Jul 04 19:31	7° Ω 27'54	2.47666 AU		15541 Jan 05 09:55	0° \approx	
	15536 Aug 04 22:23	0° M		max. Earth dist.	15541 Feb 15 15:22	29° \approx 23'03	2.50345 AU
asc. node	15536 Aug 09 07:52	3° $\text{M}15'10$			15541 Feb 16 12:40	0° H	
				morning rise	15541 Mar 03 12:09	10° $\text{H}17'38$	
conjunction	15536 Aug 14 00:03	6° $\text{M}43'46$	0°03'16	desc. node	15541 Mar 10 20:48	15° $\text{H}17'02$	
minimum elong	15536 Aug 13 23:51	6° $\text{M}43'24$	0°02'50		15541 Apr 01 23:15	0° Y	
behind sun begin	15536 Aug 12 23:31	5° $\text{M}58'05$			15541 May 18 22:52	0° B	
behind sun end	15536 Aug 15 00:11	7° $\text{M}28'46$			15541 Jul 08 05:29	0° II	
	15536 Sep 13 16:46	0° $\underline{\text{A}}$			15541 Sep 03 19:21	0° B	
morning rise	15536 Oct 17 11:07	26° $\underline{\text{A}}17'22$		retrograde	15541 Nov 07 16:13	17° $\text{B}54'03$	
	15536 Oct 22 04:16	0° M		opposition	15541 Dec 15 15:37	9° $\text{B}28'51$	-4°16'55
greatest brilliancy	15536 Nov 13 05:56	17° $\text{M}25'28$	1.2m	greatest brilliancy	15541 Dec 16 16:11	9° $\text{B}05'29$	-1.6m
	15536 Nov 29 03:58	0° J		min. Earth dist.	15541 Dec 22 01:53	7° $\text{B}02'18$	0.60145 AU
	15537 Jan 06 13:25	0° B			15542 Jan 18 03:42	30° RII	
	15537 Feb 15 07:51	0° \approx		direct	15542 Jan 25 10:39	29° $\text{II}38'35$	
	15537 Mar 29 14:18	0° H			15542 Feb 01 20:37	0° B	
	15537 May 15 04:37	0° Y		asc. node	15542 Apr 01 08:12	20° $\text{B}43'26$	
desc. node	15537 Jun 06 13:31	12° $\text{Y}50'09$			15542 Apr 17 16:09	0° Ω	
	15537 Jul 12 05:21	0° B			15542 Jun 02 04:39	0° M	
retrograde	15537 Aug 27 06:08	10° $\text{B}36'07$			15542 Jul 12 18:22	0° $\underline{\text{A}}$	
min. Earth dist.	15537 Oct 05 20:10	1° $\text{B}14'15$	0.68094 AU		15542 Aug 20 10:47	0° M	
opposition	15537 Oct 07 03:03	0° $\text{B}43'41$	-4°01'38		15542 Sep 27 20:14	0° J	
greatest brilliancy	15537 Oct 06 21:16	0° $\text{B}49'24$	-1.3m		15542 Nov 06 01:22	0° B	
	15537 Oct 08 23:15	30° RY			15542 Dec 16 20:13	0° \approx	
direct	15537 Nov 16 20:46	21° $\text{Y}04'26$		evening set	15543 Jan 03 05:29	12° \approx 22'25	
	15537 Dec 29 23:26	0° B		desc. node	15543 Jan 26 10:58	28° \approx 31'56	
	15538 Mar 02 12:43	0° II			15543 Jan 28 14:20	0° H	
	15538 Apr 21 05:10	0° B					
	15538 Jun 04 23:29	0° Ω		conjunction	15543 Feb 24 22:31	18° $\text{H}28'37$	-0°17'46
asc. node	15538 Jun 27 01:58	15° Ω 42'48		minimum elong	15543 Feb 24 21:45	18° $\text{H}27'21$	0°17'29
	15538 Jul 16 13:12	0° M			15543 Mar 14 08:35	0° Y	
evening set	15538 Aug 15 06:52	22° $\text{M}31'29$		max. Earth dist.	15543 Mar 18 00:53	2° $\text{Y}24'43$	2.61606 AU
	15538 Aug 24 22:51	0° $\underline{\text{A}}$		morning rise	15543 Apr 13 05:38	19° $\text{Y}22'43$	
	15538 Oct 02 02:10	0° M			15543 Apr 29 21:32	0° B	
					15543 Jun 16 23:39	0° II	
conjunction	15538 Oct 24 13:06	17° $\text{M}50'16$	1°05'00		15543 Aug 05 20:17	0° B	
minimum elong	15538 Oct 24 10:40	17° $\text{M}45'26$	1°05'34		15543 Sep 28 05:31	0° Ω	
	15538 Nov 08 21:12	0° J			15543 Dec 10 14:06	0° M	
max. Earth dist.	15538 Nov 29 17:18	16° $\text{J}23'48$	2.36523 AU	retrograde	15543 Dec 29 09:14	2° $\text{M}00'55$	
	15538 Dec 17 05:41	0° B			15544 Jan 16 03:55	30° $\text{R}\Omega$	
morning rise	15539 Jan 06 02:36	15° $\text{B}10'01$		opposition	15544 Feb 01 05:06	25° Ω 16'31	-0°58'50
	15539 Jan 25 23:40	0° \approx		greatest brilliancy	15544 Feb 01 14:29	25° Ω 08'29	-2.3m
	15539 Mar 08 20:53	0° H		min. Earth dist.	15544 Feb 09 20:40	22° Ω 19'24	0.46988 AU
	15539 Apr 22 14:48	0° Y		asc. node	15544 Feb 17 15:45	19° Ω 57'19	
desc. node	15539 Apr 24 07:59	1° $\text{Y}06'20$		direct	15544 Mar 09 04:41	17° Ω 00'13	
	15539 Jun 10 12:31	0° B			15544 Apr 24 22:25	0° M	
	15539 Aug 08 07:33	0° II			15544 Jun 13 10:54	0° $\underline{\text{A}}$	
retrograde	15539 Sep 30 15:41	13° $\text{II}03'55$			15544 Jul 25 03:40	0° M	
opposition	15539 Nov 09 19:05	3° $\text{II}42'45$	-4°52'18		15544 Sep 03 09:36	0° J	
greatest brilliancy	15539 Nov 10 04:58	3° $\text{II}33'05$	-1.3m		15544 Oct 14 04:10	0° B	
min. Earth dist.	15539 Nov 12 10:02	2° $\text{II}41'09$	0.67542 AU		15544 Nov 25 09:15	0° \approx	
	15539 Nov 19 11:16	30° RB		desc. node	15544 Dec 13 06:43	12° \approx 21'22	
direct	15539 Dec 21 10:07	23° $\text{B}41'21$			15545 Jan 08 08:27	0° H	
	15540 Jan 25 03:17	0° II		evening set	15545 Feb 16 13:07	25° $\text{H}50'33$	
	15540 Mar 27 20:07	0° B			15545 Feb 22 22:43	0° Y	
asc. node	15540 May 14 02:45	0° Ω 01'44					

conjunction	15545 Apr 03 12:36	25° Υ 25'15	-0°56'59	desc. node	15550 Aug 06 00:51	15° X 06'08	
minimum elong	15545 Apr 03 11:21	25° Υ 23'15	0°57'15	min. Earth dist.	15550 Aug 11 16:26	13° X 01'31	0.57723 AU
max. Earth dist.	15545 Apr 09 20:10	29° Υ 26'27	2.67584 AU	opposition	15550 Aug 18 03:38	10° X 31'03	-0°33'30
	15545 Apr 10 17:16	0° B		greatest brilliancy	15550 Aug 17 24:00	10° X 34'36	-1.8m
morning rise	15545 May 17 01:03	23° B 00'51		direct	15550 Sep 24 04:34	2° X 09'32	
	15545 May 28 02:30	0° II			15550 Dec 18 10:00	0° Υ	
	15545 Jul 14 15:54	0° E			15551 Feb 11 07:48	0° B	
	15545 Aug 31 05:13	0° Q			15551 Apr 02 05:19	0° II	
	15545 Oct 17 23:43	0° M			15551 May 19 01:17	0° E	
	15545 Dec 06 02:21	0° A		evening set	15551 Jun 05 07:08	11° E 29'53	
asc. node	15546 Jan 04 22:11	16° A 52'56		max. Earth dist.	15551 Jun 21 00:28	22° E 12'17	2.52853 AU
	15546 Feb 01 01:39	0° M			15551 Jul 02 06:38	0° Q	
retrograde	15546 Mar 15 09:01	10° M 04'39					
opposition	15546 Apr 13 20:13	5° M 13'58	6°27'42	conjunction	15551 Jul 25 02:24	16° Q 08'58	-0°21'56
greatest brilliancy	15546 Apr 13 23:40	5° M 11'41	-3.0m	minimum elong	15551 Jul 25 03:36	16° Q 11'07	0°22'36
min. Earth dist.	15546 Apr 14 20:19	4° M 57'58	0.36452 AU		15551 Aug 13 04:25	0° M	
direct	15546 May 13 09:11	0° M 16'44		asc. node	15551 Aug 27 04:19	10° M 21'08	
	15546 Jul 30 18:19	0° A		morning rise	15551 Sep 20 09:13	28° M 37'03	
	15546 Sep 16 18:50	0° B			15551 Sep 22 04:39	0° A	
desc. node	15546 Oct 31 08:10	28° B 51'55			15551 Oct 30 21:22	0° M	
	15546 Nov 02 02:13	0° \approx			15551 Dec 08 00:38	0° A	
	15546 Dec 18 17:18	0° X			15552 Jan 15 12:27	0° B	
	15547 Feb 04 00:02	0° Υ			15552 Feb 24 10:29	0° \approx	
	15547 Mar 23 14:56	0° B			15552 Apr 07 04:27	0° X	
evening set	15547 Mar 25 14:54	1° B 15'34			15552 May 25 17:08	0° Υ	
max. Earth dist.	15547 May 01 16:48	24° B 42'25	2.68056 AU	desc. node	15552 Jun 23 03:53	14° Υ 23'42	
				retrograde	15552 Aug 14 01:06	27° Υ 48'26	
conjunction	15547 May 08 07:02	28° B 53'58	-1°13'01	min. Earth dist.	15552 Sep 21 01:13	18° Υ 56'20	0.66455 AU
minimum elong	15547 May 08 06:48	28° B 53'35	1°13'43	opposition	15552 Sep 23 20:11	17° Υ 50'00	-3°21'52
	15547 May 10 00:31	0° II		greatest brilliancy	15552 Sep 23 10:44	17° Υ 59'22	-1.3m
morning rise	15547 Jun 20 13:32	26° II 41'09		direct	15552 Nov 02 20:04	8° Υ 26'16	
	15547 Jun 25 15:58	0° E			15553 Jan 14 18:56	0° B	
	15547 Aug 10 04:12	0° Q			15553 Mar 11 10:58	0° II	
	15547 Sep 23 08:36	0° M			15553 Apr 28 20:45	0° E	
	15547 Nov 05 05:01	0° A			15553 Jun 12 07:50	0° Q	
asc. node	15547 Nov 22 20:59	12° A 36'40		asc. node	15553 Jul 13 19:46	22° Q 33'15	
	15547 Dec 17 00:18	0° M		evening set	15553 Jul 22 00:53	28° Q 36'07	
	15548 Jan 27 17:19	0° A			15553 Jul 23 22:08	0° M	
	15548 Mar 12 02:46	0° B		max. Earth dist.	15553 Aug 10 19:23	13° M 24'55	2.39194 AU
retrograde	15548 May 24 10:28	28° B 34'08			15553 Sep 01 10:39	0° A	
min. Earth dist.	15548 Jun 20 13:14	23° B 31'01	0.44193 AU				
opposition	15548 Jun 28 21:33	20° B 41'22	4°23'30	conjunction	15553 Sep 23 08:23	17° A 06'10	0°46'25
greatest brilliancy	15548 Jun 27 16:02	21° B 06'28	-2.5m	minimum elong	15553 Sep 23 04:39	16° A 58'50	0°46'33
direct	15548 Jul 31 02:15	14° B 17'10			15553 Oct 09 16:35	0° M	
desc. node	15548 Sep 17 16:18	26° B 12'00			15553 Nov 16 12:33	0° A	
	15548 Sep 26 09:21	0° \approx		morning rise	15553 Dec 06 19:53	15° A 59'22	
	15548 Nov 22 21:40	0° X			15553 Dec 24 20:06	0° B	
	15549 Jan 13 08:53	0° Υ			15554 Feb 02 12:26	0° \approx	
	15549 Mar 03 21:46	0° B			15554 Mar 16 09:56	0° X	
	15549 Apr 20 23:20	0° II			15554 Apr 30 13:03	0° Υ	
evening set	15549 Apr 28 13:58	4° II 50'28		desc. node	15554 May 11 00:36	6° Υ 34'27	
max. Earth dist.	15549 May 23 21:11	21° II 08'59	2.63034 AU		15554 Jun 20 04:06	0° B	
	15549 Jun 06 09:22	0° E			15554 Sep 06 13:59	0° II	
				retrograde	15554 Sep 17 01:13	0° II 38'20	
conjunction	15549 Jun 12 04:10	3° E 49'21	-1°03'05		15554 Sep 27 03:40	30° R B	
minimum elong	15549 Jun 12 05:21	3° E 51'18	1°03'58	opposition	15554 Oct 27 15:02	21° B 02'24	-4°41'37
	15549 Jul 20 23:03	0° Q		greatest brilliancy	15554 Oct 27 18:10	20° B 59'19	-1.2m
morning rise	15549 Jul 28 23:14	5° Q 31'48		min. Earth dist.	15554 Oct 28 17:09	20° B 36'41	0.68578 AU
	15549 Sep 01 15:19	0° M		direct	15554 Dec 08 01:41	11° B 06'40	
asc. node	15549 Oct 09 13:29	27° M 44'55			15555 Feb 12 01:35	0° II	
	15549 Oct 12 13:58	0° A			15555 Apr 07 08:31	0° E	
	15549 Nov 21 04:24	0° M			15555 May 23 05:59	0° Q	
	15549 Dec 30 03:01	0° A		asc. node	15555 May 31 16:28	5° Q 51'57	
	15550 Feb 07 11:41	0° B			15555 Jul 04 02:12	0° M	
	15550 Mar 21 00:07	0° \approx			15555 Aug 12 11:49	0° A	
	15550 May 07 23:36	0° X			15555 Sep 19 14:15	0° M	
retrograde	15550 Jul 09 15:20	20° X 17'02		evening set	15555 Sep 30 03:30	8° M 22'59	

	15555 Oct 27 09:48	0°♊		morning rise	15560 May 03 18:43	10°♊21'40	
	15555 Dec 04 20:49	0°♋			15560 Jun 03 23:50	0°♌	
					15560 Jul 22 04:45	0°♍	
conjunction	15555 Dec 11 14:40	5°♋09'40	0°58'42		15560 Sep 09 05:02	0°♎	
minimum elong	15555 Dec 11 17:43	5°♋15'29	0°59'33		15560 Oct 30 05:18	0°♏	
	15556 Jan 13 18:29	0°♐			15560 Dec 29 02:40	0°♑	
max. Earth dist.	15556 Jan 30 10:19	12°♐06'40	2.44764 AU	asc. node	15561 Jan 21 11:03	7°♑26'25	
morning rise	15556 Feb 12 23:00	21°♐45'14		retrograde	15561 Feb 10 07:59	9°♑46'24	
	15556 Feb 24 17:14	0°♑		opposition	15561 Mar 12 18:48	4°♑27'57	3°29'58
desc. node	15556 Mar 27 16:40	21°♑46'18		greatest brilliancy	15561 Mar 13 11:49	4°♑15'38	-2.8m
	15556 Apr 09 03:41	0°♒		min. Earth dist.	15561 Mar 18 21:35	2°♑41'55	0.39013 AU
	15556 May 26 13:52	0°♓			15561 Mar 29 15:33	30°♓♏	
	15556 Jul 17 15:27	0°♌		direct	15561 Apr 14 02:47	28°♏21'38	
	15556 Sep 25 05:52	0°♍			15561 Apr 29 11:11	0°♑	
retrograde	15556 Oct 22 13:18	3°♍55'28			15561 Jul 02 01:19	0°♌	
	15556 Nov 16 16:43	30°♓♌			15561 Aug 16 01:21	0°♊	
opposition	15556 Nov 30 13:38	25°♌04'33	-4°43'27		15561 Sep 28 10:36	0°♋	
greatest brilliancy	15556 Dec 01 09:39	24°♌45'13	-1.4m		15561 Nov 11 11:06	0°♐	
min. Earth dist.	15556 Dec 05 13:12	23°♌09'08	0.63831 AU	desc. node	15561 Nov 16 21:30	3°♐38'51	
direct	15557 Jan 10 22:17	15°♌04'10			15561 Dec 26 17:27	0°♑	
	15557 Mar 06 23:01	0°♍			15562 Feb 11 04:28	0°♒	
asc. node	15557 Apr 17 20:53	23°♍01'31		evening set	15562 Mar 11 16:48	18°♒09'22	
	15557 Apr 28 22:09	0°♎			15562 Mar 30 09:13	0°♓	
	15557 Jun 11 11:42	0°♏		max. Earth dist.	15562 Apr 23 03:38	15°♓03'06	2.68544 AU
	15557 Jul 21 10:16	0°♑					
	15557 Aug 28 19:01	0°♒		conjunction	15562 Apr 24 20:49	16°♓08'19	-1°09'43
	15557 Oct 05 21:52	0°♓		minimum elong	15562 Apr 24 20:05	16°♓07'10	1°10'17
	15557 Nov 13 19:32	0°♋			15562 May 16 17:08	0°♌	
evening set	15557 Dec 12 01:03	21°♋04'56		morning rise	15562 Jun 06 20:17	13°♌27'43	
	15557 Dec 24 06:19	0°♐			15562 Jul 02 15:05	0°♍	
	15558 Feb 04 16:49	0°♑			15562 Aug 17 18:11	0°♎	
					15562 Oct 01 22:34	0°♏	
conjunction	15558 Feb 07 07:59	1°♑48'45	0°03'05		15562 Nov 15 05:12	0°♑	
minimum elong	15558 Feb 07 08:09	1°♑49'02	0°03'35	asc. node	15562 Dec 09 14:19	16°♑41'01	
behind sun begin	15558 Feb 06 10:23	1°♑11'36			15562 Dec 29 02:22	0°♒	
behind sun end	15558 Feb 08 05:55	2°♑26'25			15563 Feb 12 15:47	0°♓	
desc. node	15558 Feb 12 05:44	5°♑10'34			15563 Apr 19 08:01	0°♋	
max. Earth dist.	15558 Mar 07 09:59	20°♑49'44	2.57786 AU	retrograde	15563 May 01 18:10	1°♋06'59	
	15558 Mar 21 06:16	0°♒			15563 May 14 05:16	30°♓♊	
morning rise	15558 Mar 29 10:51	5°♒22'07		min. Earth dist.	15563 May 27 16:17	26°♊43'59	0.39313 AU
	15558 May 06 20:27	0°♓		greatest brilliancy	15563 Jun 01 23:10	25°♊08'39	-2.8m
	15558 Jun 24 12:13	0°♌		opposition	15563 Jun 03 08:33	24°♊43'22	6°30'38
	15558 Aug 15 03:14	0°♍		direct	15563 Jul 03 11:39	19°♊18'08	
	15558 Oct 14 05:51	0°♎			15563 Aug 17 00:13	0°♋	
retrograde	15558 Dec 06 22:10	13°♎11'31		desc. node	15563 Oct 05 03:17	24°♋45'19	
opposition	15559 Jan 11 14:42	5°♎40'15	-2°45'09		15563 Oct 14 09:17	0°♐	
greatest brilliancy	15559 Jan 12 13:12	5°♎19'49	-2.0m		15563 Dec 04 02:57	0°♑	
min. Earth dist.	15559 Jan 19 20:10	2°♎41'14	0.52611 AU		15564 Jan 22 09:33	0°♒	
	15559 Jan 28 01:13	30°♓♍			15564 Mar 10 23:51	0°♓	
direct	15559 Feb 19 14:33	26°♍30'48		evening set	15564 Apr 14 22:41	21°♓54'07	
asc. node	15559 Mar 06 04:46	27°♍56'16			15564 Apr 27 17:13	0°♌	
	15559 Mar 14 21:55	0°♎		max. Earth dist.	15564 May 14 16:31	10°♌51'04	2.65661 AU
	15559 May 14 12:19	0°♏					
	15559 Jun 26 18:50	0°♑		conjunction	15564 May 28 18:13	19°♌56'25	-1°10'19
	15559 Aug 05 15:13	0°♒		minimum elong	15564 May 28 18:51	19°♌57'29	1°11'10
	15559 Sep 13 19:55	0°♓			15564 Jun 13 04:10	0°♍	
	15559 Oct 23 18:34	0°♋		morning rise	15564 Jul 12 14:04	19°♍32'03	
	15559 Dec 04 06:32	0°♐			15564 Jul 28 01:12	0°♎	
desc. node	15559 Dec 30 21:50	18°♐34'37			15564 Sep 09 05:21	0°♏	
	15560 Jan 16 15:37	0°♑			15564 Oct 20 18:05	0°♑	
evening set	15560 Feb 01 08:24	10°♑32'56		asc. node	15564 Oct 26 09:25	4°♑09'19	
	15560 Mar 01 20:06	0°♒			15564 Nov 29 23:12	0°♒	
					15565 Jan 08 13:01	0°♓	
conjunction	15560 Mar 20 06:34	11°♒57'36	-0°44'26		15565 Feb 17 18:21	0°♋	
minimum elong	15560 Mar 20 05:15	11°♒55'28	0°44'31		15565 Apr 02 07:16	0°♐	
max. Earth dist.	15560 Apr 01 00:09	19°♒30'14	2.65907 AU		15565 Jun 02 16:57	0°♑	
	15560 Apr 17 10:36	0°♓		retrograde	15565 Jun 23 11:02	2°♑52'25	

	15565 Jul 13 07:59	30° \mathbb{R} \approx		15570 Jul 11 16:35	0° \mathbb{M}	
min. Earth dist.	15565 Jul 24 03:53	26° \approx 25'33	0.52737 AU	15570 Aug 20 02:27	0° \mathbb{L}	
opposition	15565 Jul 31 20:06	23° \approx 32'16	1°04'57	15570 Aug 30 17:25	8° \mathbb{L} 17'22	
greatest brilliancy	15565 Jul 31 12:53	23° \approx 39'04	-2.0m	15570 Sep 27 05:27	0° \mathbb{M}	
desc. node	15565 Aug 22 11:22	17° \approx 03'14		15570 Nov 04 00:15	0° \mathbb{J}	
direct	15565 Sep 05 05:58	15° \approx 48'18				
	15565 Oct 30 14:10	0° \mathbb{H}		conjunction	15570 Nov 11 11:31	5° \mathbb{J} 54'01 1°07'46
	15565 Dec 29 07:11	0° \mathbb{Y}		minimum elong	15570 Nov 11 11:36	5° \mathbb{J} 54'12 1°08'32
	15566 Feb 19 07:55	0° \mathbb{B}			15570 Dec 12 08:46	0° \mathbb{Z}
	15566 Apr 09 07:41	0° \mathbb{I}		max. Earth dist.	15571 Jan 03 15:28	16° \mathbb{Z} 58'35 2.39083 AU
evening set	15566 May 20 23:05	26° \mathbb{I} 43'57		morning rise	15571 Jan 20 23:27	29° \mathbb{Z} 53'31
	15566 May 25 22:12	0° \mathbb{G}			15571 Jan 21 02:58	0° \approx
max. Earth dist.	15566 Jun 09 01:05	9° \mathbb{G} 23'43	2.57419 AU		15571 Mar 03 23:19	0° \mathbb{H}
				desc. node	15571 Apr 14 10:27	27° \mathbb{H} 59'31
conjunction	15566 Jul 07 00:26	28° \mathbb{G} 27'25	-0°41'57		15571 Apr 17 12:23	0° \mathbb{Y}
minimum elong	15566 Jul 07 02:01	28° \mathbb{G} 30'09	0°42'45		15571 Jun 04 16:27	0° \mathbb{B}
	15566 Jul 09 05:51	0° \mathbb{Q}			15571 Jul 29 22:24	0° \mathbb{I}
	15566 Aug 20 10:06	0° \mathbb{M}		retrograde	15571 Oct 08 17:52	20° \mathbb{I} 49'19
morning rise	15566 Aug 27 22:45	5° \mathbb{M} 30'21		opposition	15571 Nov 17 12:43	11° \mathbb{I} 37'54 -4°53'07
asc. node	15566 Sep 12 23:02	17° \mathbb{M} 21'40		greatest brilliancy	15571 Nov 18 02:26	11° \mathbb{I} 24'32 -1.3m
	15566 Sep 29 18:05	0° \mathbb{L}		min. Earth dist.	15571 Nov 21 00:02	10° \mathbb{I} 16'39 0.66496 AU
	15566 Nov 07 18:03	0° \mathbb{M}		direct	15571 Dec 29 02:45	1° \mathbb{I} 35'22
	15566 Dec 16 03:05	0° \mathbb{J}			15572 Mar 20 17:44	0° \mathbb{G}
	15567 Jan 23 19:45	0° \mathbb{Z}		asc. node	15572 May 04 09:22	27° \mathbb{G} 20'14
	15567 Mar 05 01:28	0° \approx			15572 May 08 09:26	0° \mathbb{Q}
	15567 Apr 17 17:46	0° \mathbb{H}			15572 Jun 20 00:01	0° \mathbb{M}
	15567 Jun 09 14:13	0° \mathbb{Y}			15572 Jul 29 15:01	0° \mathbb{L}
desc. node	15567 Jul 10 17:48	11° \mathbb{Y} 28'48			15572 Sep 05 19:54	0° \mathbb{M}
retrograde	15567 Aug 01 11:36	14° \mathbb{Y} 19'42			15572 Oct 13 18:41	0° \mathbb{J}
min. Earth dist.	15567 Sep 06 16:42	6° \mathbb{Y} 01'32	0.63767 AU	evening set	15572 Nov 15 23:11	25° \mathbb{J} 48'09
opposition	15567 Sep 10 23:24	4° \mathbb{Y} 20'00	-2°29'18		15572 Nov 21 10:49	0° \mathbb{Z}
greatest brilliancy	15567 Sep 10 12:49	4° \mathbb{Y} 30'29	-1.5m		15572 Dec 31 14:56	0° \approx
	15567 Sep 22 15:07	30° \mathbb{R} \mathbb{H}				
direct	15567 Oct 19 23:52	25° \mathbb{H} 16'12		conjunction	15573 Jan 18 06:32	12° \approx 44'36 0°25'48
	15567 Nov 19 05:50	0° \mathbb{Y}		minimum elong	15573 Jan 18 08:11	12° \approx 47'33 0°26'30
	15568 Jan 27 01:26	0° \mathbb{B}			15573 Feb 11 19:10	0° \mathbb{H}
	15568 Mar 19 13:41	0° \mathbb{I}		max. Earth dist.	15573 Feb 23 12:20	8° \mathbb{H} 03'52 2.53174 AU
	15568 May 06 04:21	0° \mathbb{G}		desc. node	15573 Mar 01 00:15	11° \mathbb{H} 48'30
	15568 Jun 19 11:39	0° \mathbb{Q}		morning rise	15573 Mar 13 09:05	20° \mathbb{H} 08'55
evening set	15568 Jul 01 13:20	8° \mathbb{Q} 30'46			15573 Mar 28 05:16	0° \mathbb{Y}
max. Earth dist.	15568 Jul 15 01:52	18° \mathbb{Q} 13'15	2.44621 AU		15573 May 13 23:30	0° \mathbb{B}
asc. node	15568 Jul 30 13:28	29° \mathbb{Q} 32'53			15573 Jul 02 12:00	0° \mathbb{I}
	15568 Jul 31 04:09	0° \mathbb{M}			15573 Aug 26 02:05	0° \mathbb{G}
				retrograde	15573 Nov 17 14:39	26° \mathbb{G} 52'31
conjunction	15568 Aug 27 07:43	20° \mathbb{M} 23'22	0°19'08	opposition	15573 Dec 24 20:15	18° \mathbb{G} 44'18 -3°51'37
minimum elong	15568 Aug 27 06:14	20° \mathbb{M} 20'32	0°18'53	greatest brilliancy	15573 Dec 25 21:47	18° \mathbb{G} 20'19 -1.7m
	15568 Sep 08 20:33	0° \mathbb{L}		min. Earth dist.	15573 Dec 31 23:59	16° \mathbb{G} 03'05 0.57674 AU
	15568 Oct 17 06:04	0° \mathbb{M}		direct	15574 Feb 03 02:58	9° \mathbb{G} 04'08
morning rise	15568 Nov 04 02:41	14° \mathbb{M} 07'31		asc. node	15574 Mar 22 16:57	21° \mathbb{G} 24'19
	15568 Nov 24 04:11	0° \mathbb{J}			15574 Apr 08 19:56	0° \mathbb{Q}
	15569 Jan 01 12:17	0° \mathbb{Z}			15574 May 26 16:31	0° \mathbb{M}
	15569 Feb 10 04:53	0° \approx			15574 Jul 06 21:59	0° \mathbb{L}
	15569 Mar 24 05:58	0° \mathbb{H}			15574 Aug 14 21:42	0° \mathbb{M}
	15569 May 09 02:10	0° \mathbb{Y}			15574 Sep 22 12:22	0° \mathbb{J}
desc. node	15569 May 27 18:01	11° \mathbb{Y} 11'05			15574 Oct 31 22:14	0° \mathbb{Z}
	15569 Jul 02 00:54	0° \mathbb{B}			15574 Dec 11 21:51	0° \approx
retrograde	15569 Sep 03 19:07	18° \mathbb{B} 15'37		evening set	15575 Jan 14 10:13	23° \approx 32'25
opposition	15569 Oct 14 14:26	8° \mathbb{B} 28'13	-4°19'48	desc. node	15575 Jan 16 14:49	25° \approx 03'00
greatest brilliancy	15569 Oct 14 11:29	8° \mathbb{B} 31'08	-1.2m		15575 Jan 23 20:05	0° \mathbb{H}
min. Earth dist.	15569 Oct 14 03:47	8° \mathbb{B} 38'45	0.68551 AU			
	15569 Nov 10 07:16	30° \mathbb{R} \mathbb{Y}		conjunction	15575 Mar 06 02:55	27° \mathbb{H} 38'58 -0°28'29
direct	15569 Nov 24 15:21	28° \mathbb{Y} 42'11		minimum elong	15575 Mar 06 01:49	27° \mathbb{H} 37'11 0°28'21
	15569 Dec 09 19:51	0° \mathbb{B}			15575 Mar 09 16:51	0° \mathbb{Y}
	15570 Feb 23 21:44	0° \mathbb{I}		max. Earth dist.	15575 Mar 23 15:07	9° \mathbb{Y} 05'07 2.63379 AU
	15570 Apr 15 20:52	0° \mathbb{G}		morning rise	15575 Apr 21 05:04	27° \mathbb{Y} 27'10
	15570 May 31 00:09	0° \mathbb{Q}			15575 Apr 25 05:09	0° \mathbb{B}
asc. node	15570 Jun 17 08:39	12° \mathbb{Q} 14'39			15575 Jun 12 01:14	0° \mathbb{I}

	15575 Jul 31 04:22	0°☾			15580 Nov 15 05:02	0°☿	
	15575 Sep 20 12:05	0°♊			15581 Jan 07 15:01	0°♈	
	15575 Nov 17 22:56	0°♏			15581 Feb 26 21:25	0°♉	
retrograde	15576 Jan 12 16:16	14°♏34'28			15581 Apr 16 06:09	0°♊	
asc. node	15576 Feb 08 01:17	10°♏19'55		evening set	15581 May 06 12:51	12°♊55'56	
opposition	15576 Feb 14 09:41	8°♏19'56	0°24'27	max. Earth dist.	15581 May 29 14:14	27°♊55'30	2.61262 AU
greatest brilliancy	15576 Feb 14 12:50	8°♏17'22	-2.5m		15581 Jun 01 17:54	0°☾	
min. Earth dist.	15576 Feb 22 19:27	5°♏36'25	0.43892 AU				
direct	15576 Mar 20 21:44	0°♏44'28		conjunction	15581 Jun 20 19:14	12°☾40'56	-0°56'48
	15576 Jun 03 18:56	0°♎		minimum elong	15581 Jun 20 20:38	12°☾43'18	0°57'40
	15576 Jul 17 17:10	0°♎			15581 Jul 16 05:46	0°♊	
	15576 Aug 27 22:36	0°♈		morning rise	15581 Aug 08 01:41	15°♊56'30	
	15576 Oct 08 08:16	0°♉			15581 Aug 27 18:04	0°♏	
	15576 Nov 20 00:47	0°♏		asc. node	15581 Sep 29 19:01	24°♏14'54	
desc. node	15576 Dec 03 10:24	9°♏11'17			15581 Oct 07 11:27	0°♎	
	15577 Jan 03 08:44	0°☿			15581 Nov 15 20:15	0°♎	
	15577 Feb 18 05:00	0°♈			15581 Dec 24 13:03	0°♈	
evening set	15577 Feb 25 05:34	4°♈31'40			15582 Feb 01 13:48	0°♉	
	15577 Apr 06 02:15	0°♉			15582 Mar 14 10:14	0°♏	
					15582 Apr 29 00:47	0°☿	
conjunction	15577 Apr 11 09:30	3°♉22'00	-1°02'45	retrograde	15582 Jul 18 05:29	29°☿45'44	
minimum elong	15577 Apr 11 08:24	3°♉20'15	1°03'09	desc. node	15582 Jul 27 06:28	29°☿11'13	
max. Earth dist.	15577 Apr 14 19:13	5°♉31'38	2.68169 AU	min. Earth dist.	15582 Aug 21 11:04	22°☿06'06	0.60130 AU
	15577 May 23 10:26	0°♊		opposition	15582 Aug 27 04:09	19°☿51'48	-1°21'20
morning rise	15577 May 24 13:39	0°♊43'06		greatest brilliancy	15582 Aug 26 20:21	19°☿59'27	-1.7m
	15577 Jul 09 17:19	0°☾		direct	15582 Oct 03 23:22	11°☿13'20	
	15577 Aug 25 16:23	0°♊			15582 Dec 09 17:00	0°♈	
	15577 Oct 11 07:46	0°♏			15583 Feb 05 12:01	0°♉	
	15577 Nov 27 01:33	0°♎			15583 Mar 28 04:29	0°♊	
asc. node	15577 Dec 26 05:11	18°♎15'04			15583 May 14 06:49	0°☾	
	15578 Jan 14 21:09	0°♎		evening set	15583 Jun 14 15:47	21°☾04'44	
retrograde	15578 Apr 02 19:30	28°♎59'03			15583 Jun 27 13:09	0°♊	
min. Earth dist.	15578 Apr 30 09:58	24°♎29'51	0.36547 AU	max. Earth dist.	15583 Jun 29 01:04	1°♊02'43	2.50051 AU
opposition	15578 May 02 15:49	23°♎54'00	7°14'51				
greatest brilliancy	15578 May 02 02:40	24°♎02'46	-3.0m	conjunction	15583 Aug 05 12:17	27°♊52'46	-0°08'04
direct	15578 May 31 15:05	19°♎05'08		minimum elong	15583 Aug 05 12:49	27°♊53'44	0°08'37
	15578 Jul 14 11:10	0°♈		behind sun begin	15583 Aug 04 16:38	27°♊16'48	
	15578 Sep 07 23:38	0°♉		behind sun end	15583 Aug 06 08:59	28°♊30'43	
desc. node	15578 Oct 21 14:25	26°♉56'40			15583 Aug 08 09:37	0°♏	
	15578 Oct 26 11:15	0°♏		asc. node	15583 Aug 17 08:08	6°♏36'32	
	15578 Dec 13 03:32	0°☿			15583 Sep 17 07:29	0°♎	
	15579 Jan 29 23:55	0°♈		morning rise	15583 Oct 05 13:26	14°♎05'23	
	15579 Mar 18 21:48	0°♉			15583 Oct 25 21:48	0°♎	
evening set	15579 Apr 02 10:00	9°♉07'06			15583 Dec 02 23:06	0°♈	
	15579 May 05 09:50	0°♊			15584 Jan 10 08:51	0°♉	
max. Earth dist.	15579 May 06 17:51	0°♊51'00	2.67439 AU		15584 Feb 19 03:19	0°♏	
					15584 Apr 01 11:59	0°☿	
					15584 May 18 14:59	0°♈	
conjunction	15579 May 16 00:06	6°♊45'46	-1°13'14				
minimum elong	15579 May 16 00:11	6°♊45'54	1°14'00	desc. node	15584 Jun 13 09:00	14°♈12'39	
	15579 Jun 20 23:30	0°☾			15584 Jul 20 07:31	0°♉	
morning rise	15579 Jun 28 15:40	5°☾01'13		retrograde	15584 Aug 21 15:14	5°♉41'16	
	15579 Aug 05 05:58	0°♊			15584 Sep 20 10:09	30°♈♈	
	15579 Sep 18 00:57	0°♏		min. Earth dist.	15584 Sep 29 12:15	26°♈32'23	0.67482 AU
	15579 Oct 30 08:21	0°♎		opposition	15584 Oct 01 11:28	25°♈45'34	-3°46'54
asc. node	15579 Nov 13 02:39	9°♎57'45		greatest brilliancy	15584 Oct 01 03:43	25°♈53'15	-1.3m
	15579 Dec 10 10:58	0°♎		direct	15584 Nov 10 21:35	16°♈12'51	
	15580 Jan 20 03:16	0°♈			15585 Jan 05 11:34	0°♉	
	15580 Mar 02 05:31	0°♉			15585 Mar 05 14:12	0°♊	
	15580 Apr 21 03:27	0°♏			15585 Apr 23 18:26	0°☾	
retrograde	15580 Jun 05 02:33	12°♏22'16			15585 Jun 07 10:55	0°♊	
min. Earth dist.	15580 Jul 03 09:23	6°♏49'25	0.47258 AU	asc. node	15585 Jul 04 00:58	18°♊56'35	
opposition	15580 Jul 11 18:55	3°♏50'30	3°06'40		15585 Jul 19 02:13	0°♏	
greatest brilliancy	15580 Jul 10 21:19	4°♏09'46	-2.3m	evening set	15585 Aug 04 04:35	12°♏04'21	
	15580 Jul 23 14:13	30°♈♈			15585 Aug 27 13:54	0°♎	
direct	15580 Aug 14 05:58	26°♈54'45		max. Earth dist.	15585 Sep 09 20:26	10°♎20'33	2.36689 AU
	15580 Sep 06 06:42	0°♏			15585 Oct 04 18:46	0°♎	
desc. node	15580 Sep 07 23:41	0°♏26'17					

conjunction	15585 Oct 10 12:58	4°♍33'58 0°58'50		15590 Jun 19 08:10	0°♊
minimum elong	15585 Oct 10 09:18	4°♍26'41 0°59'15		15590 Aug 08 19:43	0°♎
	15585 Nov 11 14:11	0°♈		15590 Oct 03 06:29	0°♏
	15585 Dec 19 21:37	0°♎	retrograde	15590 Dec 19 02:41	23°♏57'02
morning rise	15585 Dec 24 09:34	3°♎28'00	opposition	15591 Jan 22 19:44	16°♏50'17 -1°49'46
	15586 Jan 28 13:42	0°♐	greatest brilliancy	15591 Jan 23 12:10	16°♏35'45 -2.2m
	15586 Mar 11 09:24	0°♈	min. Earth dist.	15591 Jan 31 09:29	13°♏49'12 0.49540 AU
	15586 Apr 25 04:35	0°♐	asc. node	15591 Feb 24 13:00	8°♏18'55
desc. node	15586 May 01 05:04	3°♐50'41	direct	15591 Mar 01 18:38	8°♏07'03
	15586 Jun 13 14:11	0°♉		15591 May 04 16:12	0°♐
	15586 Aug 14 23:51	0°♊		15591 Jun 19 13:59	0°♑
retrograde	15586 Sep 24 18:17	8°♊13'00		15591 Jul 30 07:25	0°♒
	15586 Oct 31 21:32	30°♋♎		15591 Sep 08 00:11	0°♈
opposition	15586 Nov 04 02:34	28°♋44'47 -4°49'21		15591 Oct 18 08:05	0°♎
greatest brilliancy	15586 Nov 04 09:24	28°♋38'03 -1.2m		15591 Nov 29 03:41	0°♐
min. Earth dist.	15586 Nov 06 00:51	27°♋59'17 0.68140 AU	desc. node	15591 Dec 21 02:35	15°♐15'02
direct	15586 Dec 15 15:53	18°♋45'21		15592 Jan 11 19:04	0°♈
	15587 Feb 02 00:02	0°♊	evening set	15592 Feb 10 17:29	19°♈54'41
	15587 Apr 01 06:42	0°♎		15592 Feb 26 03:38	0°♐
	15587 May 17 23:05	0°♏			
asc. node	15587 May 22 00:45	2°♏47'29	conjunction	15592 Mar 28 11:46	20°♐13'12 -0°52'12
	15587 Jun 29 01:12	0°♐	minimum elong	15592 Mar 28 10:27	20°♐11'06 0°52'25
	15587 Aug 07 12:28	0°♑	max. Earth dist.	15592 Apr 06 05:00	25°♐47'30 2.66936 AU
	15587 Sep 14 15:18	0°♒		15592 Apr 12 19:28	0°♉
evening set	15587 Oct 17 23:08	26°♒26'17	morning rise	15592 May 11 09:03	18°♉06'20
	15587 Oct 22 11:23	0°♈		15592 May 30 05:56	0°♊
greatest brilliancy	15587 Oct 31 13:48	7°♈09'54 1.1m		15592 Jul 17 01:26	0°♎
	15587 Nov 29 23:20	0°♎		15592 Sep 03 04:32	0°♏
				15592 Oct 22 03:17	0°♐
conjunction	15587 Dec 26 19:23	20°♎17'58 0°48'05		15592 Dec 13 03:52	0°♑
minimum elong	15587 Dec 26 22:25	20°♎23'36 0°48'54	asc. node	15593 Jan 11 19:33	14°♑35'57
	15588 Jan 08 22:12	0°♐	retrograde	15593 Feb 28 14:11	26°♑39'32
max. Earth dist.	15588 Feb 10 00:08	23°♐04'07 2.47916 AU	opposition	15593 Mar 30 06:31	21°♑43'05 5°19'31
	15588 Feb 19 21:48	0°♈	greatest brilliancy	15593 Mar 30 20:09	21°♑33'45 -3.0m
morning rise	15588 Feb 24 09:35	3°♈06'55	min. Earth dist.	15593 Apr 02 19:49	20°♑44'46 0.37204 AU
desc. node	15588 Mar 17 18:26	18°♈21'54	direct	15593 Apr 29 21:35	16°♑21'26
	15588 Apr 04 06:33	0°♐		15593 Jun 16 23:15	0°♒
	15588 May 21 08:35	0°♉		15593 Aug 07 01:07	0°♈
	15588 Jul 11 04:55	0°♊		15593 Sep 21 10:38	0°♎
	15588 Sep 09 18:39	0°♎		15593 Nov 05 12:48	0°♐
retrograde	15588 Oct 31 12:59	12°♎14'53	desc. node	15593 Nov 07 03:08	1°♐03'14
opposition	15588 Dec 08 23:47	3°♎37'26 -4°30'12		15593 Dec 21 11:08	0°♈
greatest brilliancy	15588 Dec 09 22:36	3°♎15'34 -1.5m		15594 Feb 06 07:47	0°♐
min. Earth dist.	15588 Dec 14 18:27	1°♎24'31 0.61923 AU	evening set	15594 Mar 19 16:43	26°♐11'13
	15588 Dec 18 13:12	30°♋♊		15594 Mar 25 17:33	0°♉
direct	15589 Jan 19 01:26	23°♊41'23	max. Earth dist.	15594 Apr 28 02:19	21°♉06'27 2.68375 AU
	15589 Feb 21 13:51	0°♎			
asc. node	15589 Apr 08 05:41	21°♎42'35	conjunction	15594 May 02 12:49	23°♉55'20 -1°12'09
	15589 Apr 22 02:04	0°♏	minimum elong	15594 May 02 12:22	23°♉54'37 1°12'48
	15589 Jun 05 16:59	0°♐		15594 May 12 02:23	0°♊
	15589 Jul 16 00:16	0°♑	morning rise	15594 Jun 14 14:41	21°♊26'26
	15589 Aug 23 13:09	0°♒		15594 Jun 27 20:51	0°♎
	15589 Sep 30 19:06	0°♈		15594 Aug 12 15:56	0°♏
	15589 Nov 08 19:46	0°♎		15594 Sep 26 06:54	0°♐
	15589 Dec 19 09:32	0°♐		15594 Nov 08 17:27	0°♑
evening set	15589 Dec 25 00:01	4°♐02'05	asc. node	15594 Nov 29 20:06	14°♑49'34
	15590 Jan 30 22:47	0°♈		15594 Dec 21 07:28	0°♒
desc. node	15590 Feb 02 07:40	1°♈37'45		15595 Feb 02 05:26	0°♈
				15595 Mar 21 22:13	0°♎
conjunction	15590 Feb 17 13:56	12°♈01'12 -0°09'22	retrograde	15595 May 15 15:17	17°♎38'35
minimum elong	15590 Feb 17 13:30	12°♈00'28 0°09'00	min. Earth dist.	15595 Jun 10 23:04	12°♎57'14 0.41842 AU
behind sun begin	15590 Feb 16 19:40	11°♈30'22	greatest brilliancy	15595 Jun 17 11:50	10°♎51'01 -2.6m
behind sun end	15590 Feb 18 07:20	12°♈30'33	opposition	15595 Jun 18 21:14	10°♎23'58 5°22'34
max. Earth dist.	15590 Mar 13 16:40	28°♈06'47 2.59993 AU	direct	15595 Jul 20 01:53	4°♎26'42
	15590 Mar 16 13:24	0°♐	desc. node	15595 Sep 25 10:00	25°♎13'18
morning rise	15590 Apr 07 00:07	13°♐58'41		15595 Oct 04 20:42	0°♐
	15590 May 02 01:36	0°♉		15595 Nov 27 15:48	0°♈

	15596 Jan 17 01:09	0°♄	morning rise	15600 Nov 22 11:38	2°♂34'01
	15596 Mar 06 03:36	0°♂		15600 Dec 27 12:45	0°♂
evening set	15596 Apr 22 16:46	29°♂45'28		15601 Feb 05 03:41	0°♂
	15596 Apr 23 01:55	0°♂		15601 Mar 19 00:40	0°♂
max. Earth dist.	15596 May 19 23:19	17°♂14'07 2.64303 AU		15601 May 03 07:24	0°♄
			desc. node	15601 May 17 20:41	8°♄59'39
conjunction	15596 Jun 05 21:03	28°♂15'06 -1°06'43		15601 Jun 23 21:04	0°♂
minimum elong	15596 Jun 05 22:02	28°♂16'41 1°07'34	retrograde	15601 Sep 11 08:53	25°♂52'23
	15596 Jun 08 12:58	0°♂	opposition	15601 Oct 22 01:17	16°♂10'50 -4°34'07
morning rise	15596 Jul 21 16:33	28°♂54'48	greatest brilliancy	15601 Oct 22 01:34	16°♂10'33 -1.2m
	15596 Jul 23 06:40	0°♂	min. Earth dist.	15601 Oct 22 10:41	16°♂01'33 0.68702 AU
	15596 Sep 04 04:53	0°♂	direct	15601 Dec 02 07:53	6°♂19'01
	15596 Oct 15 10:18	0°♂			
asc. node	15596 Oct 16 13:22	0°♂50'13			
	15596 Nov 24 07:14	0°♂			
	15597 Jan 02 12:03	0°♂			
	15597 Feb 11 03:35	0°♂			
	15597 Mar 25 06:15	0°♂			
	15597 May 14 22:18	0°♂			
retrograde	15597 Jul 02 20:33	13°♂31'55			
min. Earth dist.	15597 Aug 03 21:15	6°♂37'06 0.55577 AU			
opposition	15597 Aug 10 21:52	3°♂55'17 0°05'24			
greatest brilliancy	15597 Mar 04 16:40	15°♂42'24 0.2m			
desc. node	15597 Aug 12 18:54	3°♂12'16			
	15597 Aug 21 20:50	30°♂			
direct	15597 Sep 16 05:23	25°♂49'33			
	15597 Oct 14 00:20	0°♂			
	15597 Dec 22 09:26	0°♄			
	15598 Feb 13 22:56	0°♂			
	15598 Apr 04 11:33	0°♂			
	15598 May 21 06:11	0°♂			
evening set	15598 May 29 12:20	5°♂28'04			
max. Earth dist.	15598 Jun 15 15:55	17°♂00'08 2.54979 AU			
	15598 Jul 04 13:44	0°♂			
conjunction	15598 Jul 16 23:07	8°♂40'50 -0°31'06			
minimum elong	15598 Jul 17 00:34	8°♂43'23 0°31'49			
	15598 Aug 15 15:25	0°♂			
asc. node	15598 Sep 03 04:26	13°♂41'25			
morning rise	15598 Sep 09 15:12	18°♂30'54			
	15598 Sep 24 19:50	0°♂			
	15598 Nov 02 15:58	0°♂			
	15598 Dec 10 21:37	0°♂			
	15599 Jan 18 10:43	0°♂			
	15599 Feb 27 10:09	0°♂			
	15599 Apr 11 09:57	0°♂			
	15599 May 31 02:35	0°♄			
desc. node	15599 Jun 30 23:03	14°♄16'54			
retrograde	15599 Aug 09 07:21	22°♄38'25			
min. Earth dist.	15599 Sep 15 12:23	14°♄01'01 0.65388 AU			
opposition	15599 Sep 18 23:35	12°♄38'35 -3°01'57			
greatest brilliancy	15599 Sep 18 13:07	12°♄48'57 -1.4m			
direct	15599 Oct 28 13:31	3°♄23'17			
	15600 Jan 19 21:52	0°♂			
	15600 Mar 14 03:41	0°♂			
	15600 May 01 06:25	0°♂			
	15600 Jun 14 17:19	0°♂			
evening set	15600 Jul 12 16:51	19°♂56'37			
asc. node	15600 Jul 20 19:23	25°♂52'04			
	15600 Jul 26 09:55	0°♂			
max. Earth dist.	15600 Jul 28 03:19	1°♂16'39 2.41579 AU			
	15600 Sep 04 01:05	0°♂			
conjunction	15600 Sep 10 21:56	5°♂19'14 0°35'05			
minimum elong	15600 Sep 10 19:02	5°♂13'36 0°35'02			
	15600 Oct 12 08:56	0°♂			
	15600 Nov 19 05:42	0°♂			