




































































































































superior conj	7100 May 14 16:59	26° ♄ 24'09	-1°20'32	morning rise	7102 Oct 08 13:38	13° ♊ 48'53	
minimum elong	7100 May 15 01:27	26° ♄ 50'40	1°20'27	direct	7102 Oct 26 14:47	7° ♊ 40'55	
	7100 May 17 13:52	0° ♄		greatest brilliancy	7102 Nov 06 01:07	9° ♊ 38'42	-4.7m
max. Earth dist.	7100 May 17 22:13	0° ♄ 26'09	1.71535 AU		7102 Dec 06 00:26	0° ♋	
	7100 Jun 10 13:49	0° ♅		asc. node	7102 Dec 11 14:35	5° ♋ 10'51	
evening rise	7100 Jun 23 14:41	16° ♅ 13'09		morning max el	7102 Dec 14 20:44	8° ♋ 19'21	45°59'22
asc. node	7100 Jun 25 18:49	18° ♅ 55'01			7103 Jan 04 16:07	0° ♌	
	7100 Jul 04 17:23	0° ♆			7103 Jan 31 01:28	0° ♌	
	7100 Jul 29 01:20	0° ♇			7103 Feb 25 05:14	0° ♍	
	7100 Aug 22 14:39	0° ♈			7103 Mar 21 18:37	0° ♍	
	7100 Sep 16 11:23	0° ♉		desc. node	7103 Apr 02 07:15	14° ♍ 14'00	
	7100 Oct 11 19:10	0° ♊			7103 Apr 15 00:20	0° ♎	
desc. node	7100 Oct 15 11:43	4° ♊ 18'36			7103 May 09 02:17	0° ♏	
	7100 Nov 06 20:04	0° ♋			7103 Jun 02 03:22	0° ♏	
	7100 Dec 04 04:17	0° ♌		morning set	7103 Jun 19 01:11	21° ♏ 03'41	
evening max el	7100 Dec 19 02:42	15° ♌ 13'38	46°23'36		7103 Jun 26 05:39	0° ♐	
	7101 Jan 04 06:38	0° ♍			7103 Jul 20 10:05	0° ♑	
greatest brilliancy	7101 Jan 28 02:32	15° ♍ 02'14	-4.9m	asc. node	7103 Jul 24 06:36	4° ♑ 46'20	
asc. node	7101 Feb 05 12:04	16° ♍ 48'06					
retrograde	7101 Feb 06 21:50	16° ♍ 50'28		superior conj	7103 Jul 27 10:47	8° ♑ 42'00	0°07'41
evening set	7101 Feb 21 19:59	12° ♍ 29'07		minimum elong	7103 Jul 27 09:04	8° ♑ 36'42	0°07'32
inferior conj	7101 Feb 27 13:32	9° ♍ 06'15	5°22'02	behind sun begin	7103 Jul 26 12:00	7° ♑ 31'30	
minimum elong	7101 Feb 27 03:10	9° ♍ 22'10	5°19'19	behind sun end	7103 Jul 28 06:08	9° ♑ 41'52	
min. Earth dist.	7101 Feb 27 09:26	9° ♍ 12'33	0.26880 AU	max. Earth dist.	7103 Jul 29 16:34	11° ♑ 28'19	1.72867 AU
morning rise	7101 Mar 04 10:10	6° ♍ 11'46			7103 Aug 13 16:36	0° ♒	
direct	7101 Mar 20 03:50	1° ♍ 20'09		evening rise	7103 Sep 02 12:56	24° ♒ 27'42	
greatest brilliancy	7101 Mar 30 01:30	3° ♍ 10'58	-4.9m		7103 Sep 07 01:00	0° ♓	
	7101 May 05 10:46	0° ♎			7103 Oct 01 11:41	0° ♓	
morning max el	7101 May 09 13:53	4° ♎ 05'20	46°55'50		7103 Oct 26 01:43	0° ♓	
desc. node	7101 May 28 05:17	23° ♎ 45'18		desc. node	7103 Nov 12 23:36	21° ♓ 42'59	
	7101 Jun 02 20:54	0° ♏			7103 Nov 19 20:14	0° ♔	
	7101 Jun 29 02:07	0° ♐			7103 Dec 14 20:15	0° ♔	
	7101 Jul 24 12:22	0° ♑			7104 Jan 09 04:14	0° ♕	
	7101 Aug 18 14:10	0° ♒			7104 Feb 04 04:43	0° ♕	
	7101 Sep 12 10:39	0° ♓		evening max el	7104 Mar 01 23:28	28° ♕ 51'45	47°02'40
asc. node	7101 Sep 18 04:42	6° ♓ 58'44			7104 Mar 03 02:35	0° ♖	
	7101 Oct 07 02:18	0° ♔		asc. node	7104 Mar 04 23:44	1° ♖ 52'28	
	7101 Oct 31 13:20	0° ♕			7104 Apr 11 07:16	0° ♖	
morning set	7101 Nov 06 23:01	7° ♕ 53'20		greatest brilliancy	7104 Apr 11 16:13	0° ♗ 08'15	-4.9m
	7101 Nov 24 20:39	0° ♌		retrograde	7104 Apr 21 15:35	2° ♗ 01'51	
max. Earth dist.	7101 Dec 11 09:41	20° ♌ 29'50	1.72605 AU		7104 May 01 13:40	30° ♗	
				evening set	7104 May 09 09:23	25° ♗ 57'34	
superior conj	7101 Dec 13 22:43	23° ♌ 39'09	0°55'28	inferior conj	7104 May 12 09:41	24° ♗ 07'05	8°32'32
minimum elong	7101 Dec 14 08:30	24° ♌ 09'32	0°55'11	minimum elong	7104 May 12 17:07	23° ♗ 55'37	8°31'38
	7101 Dec 19 01:26	0° ♘		min. Earth dist.	7104 May 12 07:37	24° ♗ 10'16	0.27301 AU
desc. node	7102 Jan 07 21:14	24° ♘ 38'42		morning rise	7104 May 16 00:58	21° ♗ 54'39	
	7102 Jan 12 04:28	0° ♙		direct	7104 Jun 02 02:26	16° ♗ 17'43	
evening rise	7102 Jan 21 17:28	11° ♙ 53'14		greatest brilliancy	7104 Jun 11 16:42	18° ♗ 01'35	-4.8m
	7102 Feb 05 05:58	0° ♚		desc. node	7104 Jun 24 16:53	24° ♗ 45'31	
	7102 Mar 01 06:29	0° ♛			7104 Jul 01 22:07	0° ♘	
	7102 Mar 25 07:38	0° ♜		morning max el	7104 Jul 21 20:19	17° ♘ 47'02	46°14'59
	7102 Apr 18 12:37	0° ♙			7104 Aug 02 22:00	0° ♙	
asc. node	7102 Apr 30 21:11	15° ♙ 09'50			7104 Aug 30 11:28	0° ♚	
	7102 May 13 02:01	0° ♚			7104 Sep 25 15:33	0° ♚	
	7102 Jun 07 06:34	0° ♛		asc. node	7104 Oct 15 16:46	23° ♚ 36'31	
	7102 Jul 03 15:50	0° ♜			7104 Oct 21 01:35	0° ♛	
evening max el	7102 Jul 26 08:14	23° ♜ 39'32	45°50'47		7104 Nov 14 23:04	0° ♜	
	7102 Aug 02 00:31	0° ♝			7104 Dec 09 11:31	0° ♝	
desc. node	7102 Aug 20 14:28	15° ♝ 06'42			7105 Jan 02 17:49	0° ♞	
greatest brilliancy	7102 Sep 02 21:32	22° ♝ 13'40	-4.7m	morning set	7105 Jan 16 02:55	16° ♞ 38'22	
retrograde	7102 Sep 13 12:04	24° ♝ 16'31			7105 Jan 26 20:02	0° ♟	
evening set	7102 Oct 01 02:06	18° ♝ 26'36		desc. node	7105 Feb 04 09:05	10° ♟ 40'43	
inferior conj	7102 Oct 05 01:46	15° ♝ 58'58	-8°11'45		7105 Feb 19 19:21	0° ♠	
minimum elong	7102 Oct 04 19:52	16° ♝ 08'14	8°11'12	max. Earth dist.	7105 Feb 22 23:45	3° ♠ 59'32	1.71402 AU
min. Earth dist.	7102 Oct 04 22:08	16° ♝ 04'41	0.29171 AU				




























































































































superior conj	7105 Feb 25 03:31	6°  41'55	-0°47'45			7107 Aug 04 16:16	30° 	
minimum elong	7105 Feb 24 16:55	6°  08'39	0°47'16	direct		7107 Aug 14 19:27	27°  58'41	
	7105 Mar 15 16:41	0° 		greatest brilliancy		7107 Aug 24 13:51	29°  42'24	-4.7m
evening rise	7105 Apr 06 16:37	27°  39'07				7107 Aug 25 09:51	0° 	
	7105 Apr 08 13:28	0° 		morning max el		7107 Oct 02 11:27	27°  41'03	45°42'20
	7105 May 02 11:49	0° 				7107 Oct 04 21:12	0° 	
	7105 May 26 14:06	0° 				7107 Nov 02 14:50	0° 	
asc. node	7105 May 28 08:56	2°  12'40		asc. node		7107 Nov 13 04:47	11°  49'09	
	7105 Jun 19 22:42	0° 				7107 Nov 29 00:25	0° 	
	7105 Jul 14 16:32	0° 				7107 Dec 24 07:20	0° 	
	7105 Aug 09 00:36	0° 				7108 Jan 17 23:10	0° 	
	7105 Sep 04 09:51	0° 				7108 Feb 11 06:07	0° 	
desc. node	7105 Sep 17 02:05	13°  42'25		desc. node		7108 Mar 03 21:11	26°  57'02	
	7105 Oct 03 02:17	0° 				7108 Mar 06 07:42	0° 	
evening max el	7105 Oct 05 12:18	2°  19'44	45°41'03			7108 Mar 30 06:04	0° 	
	7105 Nov 12 15:05	0° 		morning set		7108 Apr 01 13:33	2°  54'17	
greatest brilliancy	7105 Nov 13 17:50	0°  23'00	-4.8m			7108 Apr 23 03:01	0° 	
retrograde	7105 Nov 23 04:11	1°  35'20						
	7105 Dec 03 05:06	30°  47'00		superior conj		7108 May 12 05:04	23°  58'04	-1°21'59
evening set	7105 Dec 09 10:19	26°  57'02		minimum elong		7108 May 12 12:48	24°  22'20	1°21'54
inferior conj	7105 Dec 14 06:45	24°  00'58	-5°40'25	max. Earth dist.		7108 May 15 05:23	27°  44'47	1.71498 AU
minimum elong	7105 Dec 14 16:47	23°  45'22	5°38'00			7108 May 17 00:33	0° 	
min. Earth dist.	7105 Dec 15 04:09	23°  27'43	0.28120 AU			7108 Jun 10 00:29	0° 	
morning rise	7105 Dec 19 22:45	20°  36'24		evening rise		7108 Jun 21 04:20	13°  53'15	
direct	7106 Jan 04 13:01	15°  52'47		asc. node		7108 Jun 24 20:44	18°  52'44	
asc. node	7106 Jan 08 02:13	16°  07'38				7108 Jul 04 04:07	0° 	
greatest brilliancy	7106 Jan 15 15:43	18°  10'41	-4.8m			7108 Jul 28 12:12	0° 	
	7106 Feb 03 15:52	0° 				7108 Aug 22 01:48	0° 	
morning max el	7106 Feb 23 21:55	18°  34'36	46°44'20			7108 Sep 15 23:04	0° 	
	7106 Mar 06 21:07	0° 				7108 Oct 11 07:49	0° 	
	7106 Apr 02 14:38	0° 		desc. node		7108 Oct 14 13:47	3°  47'14	
	7106 Apr 27 23:04	0° 				7108 Nov 06 10:34	0° 	
desc. node	7106 Apr 29 19:19	2°  12'56				7108 Dec 03 22:58	0° 	
	7106 May 22 17:13	0° 		evening max el		7108 Dec 16 15:30	12°  51'16	46°21'51
	7106 Jun 16 05:13	0° 				7109 Jan 04 17:52	0° 	
	7106 Jul 10 15:19	0° 		greatest brilliancy		7109 Jan 25 15:39	12°  37'43	-4.9m
	7106 Aug 04 01:16	0° 		retrograde		7109 Feb 04 10:35	14°  25'52	
asc. node	7106 Aug 20 18:39	20°  33'08		asc. node		7109 Feb 04 14:09	14°  25'50	
morning set	7106 Aug 28 06:14	29°  45'01		evening set		7109 Feb 19 06:14	10°  07'33	
	7106 Aug 28 11:06	0° 		inferior conj		7109 Feb 25 02:24	6°  41'33	5°02'00
	7106 Sep 21 20:16	0° 		minimum elong		7109 Feb 24 16:23	6°  56'53	4°59'18
max. Earth dist.	7106 Oct 03 12:12	14°  22'04	1.73354 AU	min. Earth dist.		7109 Feb 24 23:13	6°  46'25	0.26886 AU
				morning rise		7109 Mar 02 02:19	3°  42'40	
superior conj	7106 Oct 04 01:19	15°  42'28	1°21'15			7109 Mar 10 10:22	30° 	
minimum elong	7106 Oct 03 19:40	14°  45'04	1°21'11	direct		7109 Mar 17 16:34	28°  54'53	
	7106 Oct 16 04:34	0° 				7109 Mar 25 04:50	0° 	
evening rise	7106 Nov 09 12:03	29°  58'30		greatest brilliancy		7109 Mar 27 16:08	0°  47'35	-4.9m
	7106 Nov 09 12:32	0° 				7109 May 05 10:30	0° 	
	7106 Dec 03 20:49	0° 		morning max el		7109 May 07 03:32	1°  42'28	46°56'41
desc. node	7106 Dec 10 11:19	8°  30'56		desc. node		7109 May 27 07:11	23°  03'00	
	7106 Dec 28 05:37	0° 				7109 Jun 02 13:15	0° 	
	7107 Jan 21 15:00	0° 				7109 Jun 28 15:48	0° 	
	7107 Feb 15 02:10	0° 				7109 Jul 24 00:43	0° 	
	7107 Mar 11 19:04	0° 				7109 Aug 18 01:44	0° 	
asc. node	7107 Apr 02 11:24	25°  46'15				7109 Sep 11 21:43	0° 	
	7107 Apr 06 02:28	0° 		asc. node		7109 Sep 17 06:44	6°  31'35	
	7107 May 02 20:16	0° 				7109 Oct 06 13:02	0° 	
evening max el	7107 May 14 06:42	11°  52'19	46°40'38			7109 Oct 30 23:53	0° 	
	7107 Jun 03 03:43	0° 		morning set		7109 Nov 04 16:06	5°  45'34	
greatest brilliancy	7107 Jun 22 11:33	11°  55'59	-4.8m			7109 Nov 24 07:09	0° 	
retrograde	7107 Jul 03 09:31	14°  08'01		max. Earth dist.		7109 Dec 09 05:13	18°  28'54	1.72644 AU
evening set	7107 Jul 18 07:44	9°  46'16						
desc. node	7107 Jul 23 04:39	6°  53'14		superior conj		7109 Dec 11 14:15	21°  25'48	0°58'04
min. Earth dist.	7107 Jul 24 03:55	6°  16'59	0.28133 AU	minimum elong		7109 Dec 12 00:08	21°  56'25	0°57'47
inferior conj	7107 Jul 24 15:06	5°  59'33	-0°21'16			7109 Dec 18 11:59	0° 	
minimum elong	7107 Jul 24 14:17	6°  00'48	0°21'04	desc. node		7110 Jan 06 23:11	24°  31'38	
morning rise	7107 Jul 30 21:30	2°  15'34				7110 Jan 11 15:07	0° 	

evening rise	7110 Jan 19 07:03	9° \approx 32'41			7112 Aug 02 16:40	0° \ominus	
	7110 Feb 04 16:48	0° H			7112 Aug 30 01:55	0° Ω	
	7110 Feb 28 17:30	0° Υ			7112 Sep 25 04:09	0° M	
	7110 Mar 24 18:53	0° B		asc. node	7112 Oct 14 18:43	23° M 07'14	
	7110 Apr 18 00:14	0° Π			7112 Oct 20 13:13	0° Ω	
asc. node	7110 Apr 29 23:07	14° Π 39'28			7112 Nov 14 10:12	0° M	
	7110 May 12 14:16	0° \ominus			7112 Dec 08 22:24	0° A	
	7110 Jun 06 20:02	0° Ω			7113 Jan 02 04:36	0° B	
	7110 Jul 03 08:00	0° M		morning set	7113 Jan 13 16:47	14° B 18'39	
evening max el	7110 Jul 24 00:08	21° M 28'48	45°52'01		7113 Jan 26 06:47	0° \approx	
	7110 Aug 02 01:46	0° Ω		desc. node	7113 Feb 03 11:11	10° \approx 13'40	
desc. node	7110 Aug 19 16:31	13° Ω 54'04			7113 Feb 19 06:05	0° H	
greatest brilliancy	7110 Aug 31 11:52	20° Ω 03'05	-4.7m	max. Earth dist.	7113 Feb 20 06:29	1° H 16'27	1.71430 AU
retrograde	7110 Sep 11 04:58	22° Ω 07'59					
evening set	7110 Sep 28 15:27	16° Ω 21'58		superior conj	7113 Feb 22 14:49	4° H 13'06	-0°44'25
inferior conj	7110 Oct 02 18:01	13° Ω 50'01	-8°05'20	minimum elong	7113 Feb 22 04:44	3° H 41'29	0°43'56
minimum elong	7110 Oct 02 11:32	14° Ω 00'12	8°04'40		7113 Mar 15 03:28	0° Υ	
min. Earth dist.	7110 Oct 02 12:57	13° Ω 57'59	0.29167 AU	evening rise	7113 Apr 04 03:08	25° Υ 07'16	
morning rise	7110 Oct 06 07:40	11° Ω 37'27			7113 Apr 08 00:20	0° B	
direct	7110 Oct 24 07:19	5° Ω 32'13			7113 May 01 22:47	0° Π	
greatest brilliancy	7110 Nov 03 16:03	7° Ω 28'57	-4.7m		7113 May 26 01:14	0° \ominus	
	7110 Dec 06 01:38	0° M		asc. node	7113 May 27 10:52	1° \ominus 44'07	
asc. node	7110 Dec 10 16:30	4° M 21'18			7113 Jun 19 10:08	0° Ω	
morning max el	7110 Dec 12 13:02	6° M 09'13	45°58'04		7113 Jul 14 04:30	0° M	
	7111 Jan 04 08:20	0° A			7113 Aug 08 13:39	0° Ω	
	7111 Jan 30 15:01	0° B			7113 Sep 04 01:12	0° M	
	7111 Feb 24 17:35	0° \approx		desc. node	7113 Sep 16 04:05	13° M 02'09	
	7111 Mar 21 06:19	0° H		evening max el	7113 Oct 02 02:29	0° A 05'18	45°40'18
desc. node	7111 Apr 01 09:11	13° H 44'25			7113 Oct 03 00:16	0° A	
	7111 Apr 14 11:38	0° Υ		greatest brilliancy	7113 Nov 11 08:38	28° A 09'20	-4.8m
	7111 May 08 13:17	0° B		retrograde	7113 Nov 20 17:53	29° A 44'55	
	7111 Jun 01 14:09	0° Π		evening set	7113 Dec 07 03:58	24° A 38'10	
morning set	7111 Jun 16 15:26	18° Π 45'27		inferior conj	7113 Dec 11 21:40	21° A 45'53	-5°56'12
	7111 Jun 25 16:17	0° \ominus		minimum elong	7113 Dec 12 07:47	21° A 30'06	5°53'51
	7111 Jul 19 20:35	0° Ω		min. Earth dist.	7113 Dec 12 19:22	21° A 12'05	0.28183 AU
asc. node	7111 Jul 23 08:40	4° Ω 20'17		morning rise	7113 Dec 17 11:03	18° A 24'26	
				direct	7114 Jan 02 04:05	13° A 36'47	
superior conj	7111 Jul 25 02:39	6° Ω 30'09	0°04'15	asc. node	7114 Jan 07 04:21	14° A 05'56	
minimum elong	7111 Jul 25 01:41	6° Ω 27'11	0°04'09	greatest brilliancy	7114 Jan 13 07:33	15° A 54'41	-4.8m
behind sun begin	7111 Jul 24 02:39	5° Ω 15'53			7114 Feb 04 02:04	0° B	
behind sun end	7111 Jul 26 00:43	7° Ω 38'28		morning max el	7114 Feb 21 11:36	16° B 12'41	46°42'59
max. Earth dist.	7111 Jul 27 12:29	9° Ω 29'04	1.72830 AU		7114 Mar 06 15:38	0° \approx	
	7111 Aug 13 03:03	0° M			7114 Apr 02 05:23	0° H	
evening rise	7111 Aug 31 06:49	22° M 22'43			7114 Apr 27 12:10	0° Υ	
	7111 Sep 06 11:31	0° Ω		desc. node	7114 Apr 28 21:15	1° Υ 39'37	
	7111 Sep 30 22:24	0° M			7114 May 22 05:24	0° B	
	7111 Oct 25 12:47	0° A			7114 Jun 15 16:50	0° Π	
desc. node	7111 Nov 12 01:27	21° A 14'05			7114 Jul 10 02:30	0° \ominus	
	7111 Nov 19 07:50	0° B			7114 Aug 03 12:10	0° Ω	
	7111 Dec 14 08:40	0° \approx		asc. node	7114 Aug 19 20:40	20° Ω 06'14	
	7112 Jan 08 18:00	0° H		morning set	7114 Aug 25 23:11	27° Ω 36'39	
	7112 Feb 03 21:04	0° Υ			7114 Aug 27 21:48	0° M	
evening max el	7112 Feb 28 14:10	26° Υ 31'01	47°02'13		7114 Sep 21 06:51	0° Ω	
	7112 Mar 03 01:56	0° B					
asc. node	7112 Mar 04 01:47	0° B 58'31		superior conj	7114 Oct 01 19:20	12° Ω 57'33	1°20'10
greatest brilliancy	7112 Apr 09 05:39	27° B 44'05	-4.9m	minimum elong	7114 Oct 01 13:08	12° Ω 38'28	1°20'04
retrograde	7112 Apr 19 05:32	29° B 37'37		max. Earth dist.	7114 Oct 01 06:08	12° Ω 16'53	1.73357 AU
evening set	7112 May 07 01:26	23° B 29'34			7114 Oct 15 15:09	0° M	
inferior conj	7112 May 09 22:52	21° B 43'13	8°40'46	evening rise	7114 Nov 07 05:06	27° M 50'12	
minimum elong	7112 May 10 05:36	21° B 32'50	8°40'01		7114 Nov 08 23:14	0° A	
min. Earth dist.	7112 May 09 20:06	21° B 47'30	0.27280 AU		7114 Dec 03 07:44	0° B	
morning rise	7112 May 13 09:54	19° B 37'02		desc. node	7114 Dec 09 13:20	7° B 40'17	
direct	7112 May 30 15:56	13° B 54'27			7114 Dec 27 16:52	0° \approx	
greatest brilliancy	7112 Jun 09 04:26	15° B 37'00	-4.8m		7115 Jan 21 02:42	0° H	
desc. node	7112 Jun 23 18:52	23° B 25'38			7115 Feb 14 14:29	0° Υ	
	7112 Jul 02 10:03	0° Π			7115 Mar 11 08:18	0° B	
morning max el	7112 Jul 19 10:29	15° Π 28'40	46°16'38	asc. node	7115 Apr 01 13:19	25° B 09'20	

	7115 Apr 05 17:21	0°♂		7117 Jul 23 13:24	0°♂	
	7115 May 02 15:10	0°♂		7117 Aug 17 13:36	0°♂	
evening max el	7115 May 11 20:07	9°♂30'23 46°42'18		7117 Sep 11 09:04	0°♂	
	7115 Jun 03 17:13	0°♂	asc. node	7117 Sep 16 08:36	6°♂03'01	
greatest brilliancy	7115 Jun 20 04:17	9°♂41'40 -4.8m		7117 Oct 06 00:05	0°♂	
retrograde	7115 Jul 01 00:32	11°♂52'41		7117 Oct 30 10:45	0°♂	
evening set	7115 Jul 15 23:36	7°♂30'07	morning set	7117 Nov 02 09:23	3°♂37'26	
inferior conj	7115 Jul 22 06:12	3°♂44'49 0°00'21		7117 Nov 23 17:58	0°♂	
minimum elong	7115 Jul 22 06:13	3°♂44'48 0°00'16	max. Earth dist.	7117 Dec 07 00:03	16°♂24'51 1.72680 AU	
transit middle	7115 Jul 22 06:13	3°♂44'48 0°00'16				
transit begin	7115 Jul 22 02:09	3°♂51'07	superior conj	7117 Dec 09 06:09	19°♂12'32 1°00'33	
transit end	7115 Jul 22 10:16	3°♂38'28	minimum elong	7117 Dec 09 16:01	19°♂43'09 1°00'16	
min. Earth dist.	7115 Jul 21 19:58	4°♂00'46 0.28091 AU		7117 Dec 17 22:51	0°♂	
desc. node	7115 Jul 22 06:46	3°♂43'56	desc. node	7118 Jan 06 01:17	23°♂44'04	
morning rise	7115 Jul 28 13:23	29°♂59'42		7118 Jan 11 02:06	0°♂	
	7115 Jul 28 13:10	30°♂♂	evening rise	7118 Jan 16 20:59	7°♂12'17	
direct	7115 Aug 12 09:29	25°♂44'19		7118 Feb 04 03:56	0°♂	
greatest brilliancy	7115 Aug 22 05:14	27°♂28'54 -4.7m		7118 Feb 28 04:50	0°♂	
	7115 Aug 28 03:48	0°♂		7118 Mar 24 06:31	0°♂	
morning max el	7115 Sep 30 01:54	25°♂26'52 45°42'51		7118 Apr 17 12:19	0°♂	
	7115 Oct 04 18:32	0°♂	asc. node	7118 Apr 29 01:04	14°♂07'44	
	7115 Nov 02 06:06	0°♂		7118 May 12 03:02	0°♂	
asc. node	7115 Nov 12 06:42	11°♂14'27		7118 Jun 06 10:06	0°♂	
	7115 Nov 28 13:29	0°♂		7118 Jul 03 00:59	0°♂	
	7115 Dec 23 19:23	0°♂	evening max el	7118 Jul 21 16:46	19°♂18'27 45°53'28	
	7116 Jan 17 10:42	0°♂		7118 Aug 02 05:05	0°♂	
	7116 Feb 10 17:24	0°♂	desc. node	7118 Aug 18 18:28	12°♂37'52	
desc. node	7116 Mar 02 23:07	26°♂28'09	greatest brilliancy	7118 Aug 29 02:40	17°♂51'58 -4.7m	
	7116 Mar 05 18:52	0°♂	retrograde	7118 Sep 08 21:44	19°♂58'16	
morning set	7116 Mar 29 23:33	0°♂20'05	evening set	7118 Sep 26 04:49	14°♂16'36	
	7116 Mar 29 17:09	0°♂	inferior conj	7118 Sep 30 10:20	11°♂40'07 -7°58'16	
	7116 Apr 22 14:02	0°♂	minimum elong	7118 Sep 30 03:18	11°♂51'09 7°57'29	
			min. Earth dist.	7118 Sep 30 03:47	11°♂50'23 0.29156 AU	
superior conj	7116 May 09 16:34	21°♂29'15 -1°23'16	morning rise	7118 Oct 04 01:52	9°♂24'44	
minimum elong	7116 May 09 23:30	21°♂51'02 1°23'13	direct	7118 Oct 22 00:05	3°♂22'47	
max. Earth dist.	7116 May 12 10:14	24°♂55'12 1.71459 AU	greatest brilliancy	7118 Nov 01 06:29	5°♂17'41 -4.7m	
	7116 May 16 11:29	0°♂		7118 Dec 06 02:01	0°♂	
	7116 Jun 09 11:24	0°♂	asc. node	7118 Dec 09 18:36	3°♂32'05	
evening rise	7116 Jun 18 17:35	11°♂31'21	morning max el	7118 Dec 10 05:08	3°♂57'45 45°56'43	
asc. node	7116 Jun 23 22:47	18°♂00'09		7119 Jan 04 00:38	0°♂	
	7116 Jul 03 15:05	0°♂		7119 Jan 30 04:47	0°♂	
	7116 Jul 27 23:19	0°♂		7119 Feb 24 06:12	0°♂	
	7116 Aug 21 13:13	0°♂		7119 Mar 20 18:18	0°♂	
	7116 Sep 15 11:02	0°♂	desc. node	7119 Mar 31 11:07	13°♂13'58	
	7116 Oct 10 20:47	0°♂		7119 Apr 13 23:12	0°♂	
desc. node	7116 Oct 13 15:40	3°♂14'32		7119 May 08 00:37	0°♂	
	7116 Nov 06 01:30	0°♂		7119 Jun 01 01:19	0°♂	
	7116 Dec 03 18:26	0°♂	morning set	7119 Jun 14 05:25	16°♂25'07	
evening max el	7116 Dec 14 05:09	10°♂30'40 46°20'06		7119 Jun 25 03:19	0°♂	
	7117 Jan 05 09:17	0°♂		7119 Jul 19 07:31	0°♂	
greatest brilliancy	7117 Jan 23 04:04	10°♂11'49 -4.9m	asc. node	7119 Jul 22 10:40	3°♂52'38	
retrograde	7117 Feb 01 23:42	12°♂00'25				
asc. node	7117 Feb 03 16:08	11°♂56'58	superior conj	7119 Jul 22 18:05	4°♂15'36 0°00'46	
evening set	7117 Feb 16 16:41	7°♂44'46	minimum elong	7119 Jul 22 17:54	4°♂15'04 0°00'41	
inferior conj	7117 Feb 22 15:10	4°♂15'47 4°41'16	behind sun begin	7119 Jul 21 18:15	3°♂01'48	
minimum elong	7117 Feb 22 05:36	4°♂30'24 4°38'38	behind sun end	7119 Jul 23 17:34	5°♂28'19	
min. Earth dist.	7117 Feb 22 12:39	4°♂19'37 0.26899 AU	max. Earth dist.	7119 Jul 25 08:08	7°♂27'38 1.72790 AU	
morning rise	7117 Feb 27 18:20	1°♂12'40		7119 Aug 12 13:55	0°♂	
	7117 Mar 02 00:44	30°♂♂	evening rise	7119 Aug 29 00:17	20°♂15'15	
direct	7117 Mar 15 05:48	26°♂28'33		7119 Sep 05 22:25	0°♂	
greatest brilliancy	7117 Mar 25 06:16	28°♂22'30 -4.9m		7119 Sep 30 09:29	0°♂	
	7117 Mar 29 03:07	0°♂		7119 Oct 25 00:14	0°♂	
morning max el	7117 May 04 18:09	29°♂20'45 46°57'19	desc. node	7119 Nov 11 03:31	20°♂44'42	
	7117 May 05 09:44	0°♂		7119 Nov 18 19:51	0°♂	
desc. node	7117 May 26 09:11	22°♂20'04		7119 Dec 13 21:32	0°♂	
	7117 Jun 02 05:48	0°♂		7120 Jan 08 08:17	0°♂	
	7117 Jun 28 05:49	0°♂		7120 Feb 03 14:05	0°♂	

evening max el	7120 Feb 26 04:36	24° Υ 08'40	47°01'40			7122 Sep 20 17:35	0° Ω	
asc. node	7120 Mar 03 03:43	0° \mathcal{B} 02'19		max. Earth dist.		7122 Sep 29 00:25	10° Ω 12'25	1.73364 AU
	7120 Mar 03 02:46	0° \mathcal{B}						
greatest brilliancy	7120 Apr 06 19:40	25° \mathcal{B} 19'58	-4.9m	superior conj		7122 Sep 29 13:19	10° Ω 52'10	1°18'57
retrograde	7120 Apr 16 19:03	27° \mathcal{B} 12'40		minimum elong		7122 Sep 29 06:37	10° Ω 31'32	1°18'51
evening set	7120 May 04 17:18	21° \mathcal{B} 01'36				7122 Oct 15 01:53	0° \mathcal{M}	
inferior conj	7120 May 07 12:10	19° \mathcal{B} 18'55	8°47'55	evening rise		7122 Nov 04 22:10	25° \mathcal{M} 41'36	
minimum elong	7120 May 07 18:07	19° \mathcal{B} 09'44	8°47'20			7122 Nov 08 10:04	0° \mathcal{X}	
min. Earth dist.	7120 May 07 08:58	19° \mathcal{B} 23'53	0.27259 AU			7122 Dec 02 18:46	0° \mathcal{Z}	
morning rise	7120 May 10 19:04	17° \mathcal{B} 18'39		desc. node		7122 Dec 08 15:21	7° \mathcal{Z} 12'22	
direct	7120 May 28 05:13	11° \mathcal{B} 30'43				7122 Dec 27 04:13	0° \approx	
greatest brilliancy	7120 Jun 06 16:44	13° \mathcal{B} 12'16	-4.8m			7123 Jan 20 14:30	0° \mathcal{H}	
desc. node	7120 Jun 22 20:58	22° \mathcal{B} 07'46				7123 Feb 14 02:55	0° Υ	
	7120 Jul 02 19:14	0° \mathcal{I}				7123 Mar 10 21:42	0° \mathcal{B}	
morning max el	7120 Jul 16 23:50	13° \mathcal{I} 07'06	46°18'08	asc. node		7123 Mar 31 15:19	24° \mathcal{B} 32'08	
	7120 Aug 02 11:15	0° \mathcal{E}				7123 Apr 05 08:33	0° \mathcal{I}	
	7120 Aug 29 16:36	0° \mathcal{Q}				7123 May 02 10:42	0° \mathcal{E}	
	7120 Sep 24 17:02	0° \mathcal{M}		evening max el		7123 May 09 09:57	7° \mathcal{E} 09'17	46°44'00
asc. node	7120 Oct 13 20:42	22° \mathcal{M} 37'01				7123 Jun 04 11:24	0° \mathcal{Q}	
	7120 Oct 20 01:09	0° Ω		greatest brilliancy		7123 Jun 17 20:37	7° \mathcal{Q} 26'48	-4.8m
	7120 Nov 13 21:37	0° \mathcal{M}		retrograde		7123 Jun 28 16:05	9° \mathcal{Q} 37'33	
	7120 Dec 08 09:33	0° \mathcal{X}		evening set		7123 Jul 13 15:39	5° \mathcal{Q} 13'43	
	7121 Jan 01 15:38	0° \mathcal{Z}		inferior conj		7123 Jul 19 21:20	1° \mathcal{Q} 30'10	0°21'51
morning set	7121 Jan 11 06:46	11° \mathcal{Z} 58'32		minimum elong		7123 Jul 19 22:10	1° \mathcal{Q} 28'53	0°21'32
	7121 Jan 25 17:46	0° \approx		min. Earth dist.		7123 Jul 19 11:52	1° \mathcal{Q} 44'55	0.28050 AU
desc. node	7121 Feb 02 13:05	9° \approx 45'10		desc. node		7123 Jul 21 08:36	0° \mathcal{Q} 35'25	
max. Earth dist.	7121 Feb 17 12:20	28° \approx 29'49	1.71463 AU			7123 Jul 22 07:41	30° \mathcal{R} \mathcal{E}	
	7121 Feb 18 17:06	0° \mathcal{H}		morning rise		7123 Jul 26 05:11	27° \mathcal{E} 44'24	
				direct		7123 Aug 09 23:35	23° \mathcal{E} 30'01	
superior conj	7121 Feb 20 02:22	1° \mathcal{H} 44'16	-0°41'00	greatest brilliancy		7123 Aug 19 20:26	25° \mathcal{E} 15'33	-4.8m
minimum elong	7121 Feb 19 16:53	1° \mathcal{H} 14'31	0°40'33			7123 Aug 29 20:05	0° \mathcal{Q}	
	7121 Mar 14 14:32	0° Υ		morning max el		7123 Sep 27 17:18	23° \mathcal{Q} 15'10	45°43'20
evening rise	7121 Apr 01 13:55	22° Υ 35'26				7123 Oct 04 15:02	0° \mathcal{M}	
	7121 Apr 07 11:27	0° \mathcal{B}				7123 Nov 01 21:07	0° Ω	
	7121 May 01 09:59	0° \mathcal{I}		asc. node		7123 Nov 11 08:47	10° Ω 40'26	
	7121 May 25 12:35	0° \mathcal{E}				7123 Nov 28 02:27	0° \mathcal{M}	
asc. node	7121 May 26 12:58	1° \mathcal{E} 15'29				7123 Dec 23 07:22	0° \mathcal{X}	
	7121 Jun 18 21:47	0° \mathcal{Q}				7124 Jan 16 22:11	0° \mathcal{Z}	
	7121 Jul 13 16:45	0° \mathcal{M}				7124 Feb 10 04:37	0° \approx	
	7121 Aug 08 03:03	0° Ω		desc. node		7124 Mar 02 01:02	25° \approx 59'29	
	7121 Sep 03 17:06	0° \mathcal{M}				7124 Mar 05 05:56	0° \mathcal{H}	
desc. node	7121 Sep 15 06:01	12° \mathcal{M} 20'19		morning set		7124 Mar 27 09:36	27° \mathcal{H} 46'24	
evening max el	7121 Sep 30 16:16	27° \mathcal{M} 49'09	45°39'44			7124 Mar 29 04:08	0° Υ	
	7121 Oct 02 23:32	0° \mathcal{X}				7124 Apr 22 00:58	0° \mathcal{B}	
greatest brilliancy	7121 Nov 08 23:28	25° \mathcal{X} 55'23	-4.7m					
retrograde	7121 Nov 18 07:55	27° \mathcal{X} 30'42		superior conj		7124 May 07 03:59	19° \mathcal{B} 00'14	-1°24'23
evening set	7121 Dec 04 21:47	22° \mathcal{X} 19'09		minimum elong		7124 May 07 10:05	19° \mathcal{B} 19'22	1°24'23
inferior conj	7121 Dec 09 12:47	19° \mathcal{X} 30'52	-6°11'09	max. Earth dist.		7124 May 09 16:13	22° \mathcal{B} 09'14	1.71428 AU
minimum elong	7121 Dec 09 22:56	19° \mathcal{X} 15'02	6°08'53			7124 May 15 22:23	0° \mathcal{I}	
min. Earth dist.	7121 Dec 10 10:50	18° \mathcal{X} 56'29	0.28246 AU			7124 Jun 08 22:17	0° \mathcal{E}	
morning rise	7121 Dec 14 23:30	16° \mathcal{X} 12'55		evening rise		7124 Jun 16 06:46	9° \mathcal{E} 09'20	
direct	7121 Dec 30 19:05	11° \mathcal{X} 20'45		asc. node		7124 Jun 23 00:47	17° \mathcal{E} 32'32	
asc. node	7122 Jan 06 06:19	12° \mathcal{X} 08'40				7124 Jul 03 01:59	0° \mathcal{Q}	
greatest brilliancy	7122 Jan 10 23:56	13° \mathcal{X} 39'25	-4.8m			7124 Jul 27 10:21	0° \mathcal{M}	
	7122 Feb 04 09:39	0° \mathcal{Z}				7124 Aug 21 00:31	0° Ω	
morning max el	7122 Feb 19 01:45	13° \mathcal{Z} 51'33	46°41'35			7124 Sep 14 22:54	0° \mathcal{M}	
	7122 Mar 06 09:51	0° \approx				7124 Oct 10 09:43	0° \mathcal{X}	
	7122 Apr 01 20:07	0° \mathcal{H}		desc. node		7124 Oct 12 17:43	2° \mathcal{X} 42'31	
	7122 Apr 27 01:21	0° Υ				7124 Nov 05 16:32	0° \mathcal{Z}	
desc. node	7122 Apr 27 23:14	1° Υ 06'01				7124 Dec 03 14:25	0° \approx	
	7122 May 21 17:41	0° \mathcal{B}		evening max el		7124 Dec 11 19:48	8° \approx 12'59	46°18'18
	7122 Jun 15 04:31	0° \mathcal{I}				7125 Jan 06 05:50	0° \mathcal{H}	
	7122 Jul 09 13:46	0° \mathcal{E}		greatest brilliancy		7125 Jan 20 16:24	7° \mathcal{H} 46'21	-4.8m
	7122 Aug 02 23:08	0° \mathcal{Q}		retrograde		7125 Jan 30 12:58	9° \mathcal{H} 35'15	
asc. node	7122 Aug 18 22:32	19° \mathcal{Q} 38'37		asc. node		7125 Feb 02 18:02	9° \mathcal{H} 22'39	
morning set	7122 Aug 23 16:10	25° \mathcal{Q} 28'04		evening set		7125 Feb 14 03:27	5° \mathcal{H} 22'15	
	7122 Aug 27 08:36	0° \mathcal{M}		inferior conj		7125 Feb 20 03:56	1° \mathcal{H} 50'25	4°20'04

minimum elong	7125 Feb 19 18:53	2° H 04'14	4°17'30	asc. node	7127 Jul 21 12:32	3° Ω 25'37	
min. Earth dist.	7125 Feb 20 01:58	1° H 53'26	0.26911 AU	max. Earth dist.	7127 Jul 23 03:29	5° Ω 26'07	1.72749 AU
	7125 Feb 23 04:53	30° R			7127 Aug 12 00:30	0° M	
morning rise	7125 Feb 25 10:11	28° \approx 43'13		evening rise	7127 Aug 26 17:38	18° M 08'10	
direct	7125 Mar 12 19:27	24° \approx 02'56			7127 Sep 05 09:03	0° Ω	
greatest brilliancy	7125 Mar 22 20:00	25° \approx 57'27	-4.9m		7127 Sep 29 20:18	0° M	
	7125 Mar 31 05:16	0° H			7127 Oct 24 11:23	0° J	
morning max el	7125 May 02 08:44	26° H 59'35	46°57'45	desc. node	7127 Nov 10 05:34	20° J 16'19	
	7125 May 05 07:48	0° Y			7127 Nov 18 07:32	0° Z	
desc. node	7125 May 25 11:17	21° Y 38'26			7127 Dec 13 10:06	0° \approx	
	7125 Jun 01 21:51	0° B			7128 Jan 07 22:20	0° H	
	7125 Jun 27 19:30	0° II			7128 Feb 03 07:09	0° Y	
	7125 Jul 23 01:50	0° G		evening max el	7128 Feb 23 18:00	21° Y 44'21	47°00'50
	7125 Aug 17 01:15	0° Ω		asc. node	7128 Mar 02 05:44	29° Y 05'41	
	7125 Sep 10 20:12	0° M			7128 Mar 03 04:40	0° B	
asc. node	7125 Sep 15 10:39	5° M 35'40		greatest brilliancy	7128 Apr 04 09:57	22° B 56'06	-4.9m
	7125 Oct 05 10:52	0° Ω		retrograde	7128 Apr 14 07:50	24° B 47'32	
	7125 Oct 29 21:22	0° M		evening set	7128 May 02 08:35	18° B 33'58	
morning set	7125 Oct 31 02:48	1° M 30'38		inferior conj	7128 May 05 01:15	16° B 54'33	8°54'09
	7125 Nov 23 04:32	0° J		minimum elong	7128 May 05 06:20	16° B 46'41	8°53'43
max. Earth dist.	7125 Dec 04 17:28	14° J 17'10	1.72718 AU	min. Earth dist.	7128 May 04 21:57	16° B 59'40	0.27238 AU
				morning rise	7128 May 08 04:12	14° B 59'58	
superior conj	7125 Dec 06 22:10	17° J 00'30	1°02'55	direct	7128 May 25 17:42	9° B 06'44	
minimum elong	7125 Dec 07 07:58	17° J 30'53	1°02'40	greatest brilliancy	7128 Jun 04 05:28	10° B 48'05	-4.9m
	7125 Dec 17 09:30	0° Z		desc. node	7128 Jun 21 22:52	20° B 52'17	
desc. node	7126 Jan 05 03:12	23° Z 16'35			7128 Jul 03 01:37	0° II	
	7126 Jan 10 12:54	0° \approx		morning max el	7128 Jul 14 12:24	10° II 44'05	46°19'46
evening rise	7126 Jan 14 10:48	4° \approx 52'11			7128 Aug 02 05:03	0° G	
	7126 Feb 03 14:54	0° H			7128 Aug 29 06:46	0° Ω	
	7126 Feb 27 15:59	0° Y			7128 Sep 24 05:31	0° M	
	7126 Mar 23 17:57	0° B		asc. node	7128 Oct 12 22:43	22° M 07'57	
	7126 Apr 17 00:11	0° II			7128 Oct 19 12:43	0° Ω	
asc. node	7126 Apr 28 03:09	13° II 37'05			7128 Nov 13 08:41	0° M	
	7126 May 11 15:38	0° G			7128 Dec 07 20:21	0° J	
	7126 Jun 06 00:03	0° Ω			7129 Jan 01 02:17	0° Z	
	7126 Jul 02 18:03	0° M		morning set	7129 Jan 08 21:10	9° Z 40'51	
evening max el	7126 Jul 19 09:22	17° M 08'36	45°54'51		7129 Jan 25 04:24	0° \approx	
	7126 Aug 02 09:52	0° Ω		desc. node	7129 Feb 01 15:03	9° \approx 18'00	
desc. node	7126 Aug 17 20:28	11° Ω 20'05		max. Earth dist.	7129 Feb 14 20:56	25° \approx 52'59	1.71501 AU
greatest brilliancy	7126 Aug 26 18:11	15° Ω 42'20	-4.7m				
retrograde	7126 Sep 06 14:07	17° Ω 49'10		superior conj	7129 Feb 17 14:12	29° \approx 17'29	-0°37'33
evening set	7126 Sep 23 18:07	12° Ω 12'20		minimum elong	7129 Feb 17 05:22	28° \approx 49'47	0°37'06
inferior conj	7126 Sep 28 02:38	9° Ω 31'07	-7°50'32		7129 Feb 18 03:46	0° H	
minimum elong	7126 Sep 27 19:04	9° Ω 42'59	7°49'37		7129 Mar 14 01:16	0° Y	
min. Earth dist.	7126 Sep 27 18:54	9° Ω 43'15	0.29138 AU	evening rise	7129 Mar 30 00:43	20° Y 04'38	
morning rise	7126 Oct 01 20:10	7° Ω 12'36			7129 Apr 06 22:17	0° B	
direct	7126 Oct 19 16:41	1° Ω 14'26			7129 Apr 30 20:55	0° II	
greatest brilliancy	7126 Oct 29 20:53	3° Ω 07'21	-4.7m		7129 May 24 23:42	0° G	
	7126 Dec 06 00:50	0° M		asc. node	7129 May 25 14:52	0° G 46'57	
morning max el	7126 Dec 07 20:20	1° M 45'12	45°55'23		7129 Jun 18 09:13	0° Ω	
asc. node	7126 Dec 08 20:33	2° M 44'25			7129 Jul 13 04:48	0° M	
	7127 Jan 03 16:17	0° J			7129 Aug 07 16:18	0° Ω	
	7127 Jan 29 18:07	0° Z			7129 Sep 03 08:59	0° M	
	7127 Feb 23 18:29	0° \approx		desc. node	7129 Sep 14 08:05	11° M 39'07	
	7127 Mar 20 05:59	0° H		evening max el	7129 Sep 28 05:58	25° M 33'38	45°39'18
desc. node	7127 Mar 30 13:12	12° H 44'41			7129 Oct 02 23:34	0° J	
	7127 Apr 13 10:32	0° Y		greatest brilliancy	7129 Nov 06 13:41	23° J 41'41	-4.7m
	7127 May 07 11:41	0° B		retrograde	7129 Nov 15 22:23	25° J 17'33	
	7127 May 31 12:11	0° II		evening set	7129 Dec 02 15:33	20° J 00'56	
morning set	7127 Jun 11 19:05	14° II 04'36		inferior conj	7129 Dec 07 03:51	17° J 16'44	-6°25'26
	7127 Jun 24 14:02	0° G		minimum elong	7129 Dec 07 13:58	17° J 00'58	6°23'18
	7127 Jul 18 18:08	0° Ω		min. Earth dist.	7129 Dec 08 02:01	16° J 42'13	0.28307 AU
				morning rise	7129 Dec 12 11:47	14° J 02'45	
superior conj	7127 Jul 20 09:15	2° Ω 01'07	-0°02'47	direct	7129 Dec 28 10:12	9° J 05'35	
minimum elong	7127 Jul 20 09:54	2° Ω 03'10	0°02'50	asc. node	7130 Jan 05 08:12	10° J 16'38	
behind sun begin	7127 Jul 19 10:23	0° Ω 50'19		greatest brilliancy	7130 Jan 08 16:11	11° J 25'13	-4.8m
behind sun end	7127 Jul 21 09:26	3° Ω 15'59			7130 Feb 04 14:30	0° Z	

morning max el	7130 Feb 16 16:41	11°  33'45	46°40'20		7132 Sep 14 10:46	0° 	
	7130 Mar 06 03:13	0° 			7132 Oct 09 22:44	0° 	
	7130 Apr 01 10:18	0° 		desc. node	7132 Oct 11 19:45	2°  10'24	
	7130 Apr 26 14:06	0° 			7132 Nov 05 07:46	0° 	
desc. node	7130 Apr 27 01:16	0°  33'43			7132 Dec 03 11:03	0° 	
	7130 May 21 05:39	0° 		evening max el	7132 Dec 09 10:48	5°  56'15	46°16'27
	7130 Jun 14 15:57	0° 			7133 Jan 07 09:59	0° 	
	7130 Jul 09 00:49	0° 		greatest brilliancy	7133 Jan 18 05:02	5°  21'22	-4.8m
	7130 Aug 02 09:54	0° 		retrograde	7133 Jan 28 01:52	7°  09'54	
asc. node	7130 Aug 18 00:35	19°  012'12		asc. node	7133 Feb 01 20:08	6°  42'14	
morning set	7130 Aug 21 08:45	23°  018'46		evening set	7133 Feb 11 14:29	2°  59'34	
	7130 Aug 26 19:11	0° 			7133 Feb 16 17:49	30° 	
	7130 Sep 20 04:04	0° 		inferior conj	7133 Feb 17 16:39	29°  25'05	3°58'24
				minimum elong	7133 Feb 17 08:12	29°  38'01	3°55'57
superior conj	7130 Sep 27 06:59	8°  46'26	1°17'38	min. Earth dist.	7133 Feb 17 15:25	29°  26'58	0.26921 AU
minimum elong	7130 Sep 26 23:49	8°  24'22	1°17'30	morning rise	7133 Feb 23 01:49	26°  13'47	
max. Earth dist.	7130 Sep 26 20:27	8°  14'01	1.73368 AU	direct	7133 Mar 10 09:09	21°  37'27	
	7130 Oct 14 12:24	0° 		greatest brilliancy	7133 Mar 20 09:44	23°  32'14	-4.9m
evening rise	7130 Nov 02 15:12	23°  033'36			7133 Apr 01 14:37	0° 	
	7130 Nov 07 20:41	0° 		morning max el	7133 Apr 29 22:33	24°  36'39	46°58'20
	7130 Dec 02 05:37	0° 			7133 May 05 04:58	0° 	
desc. node	7130 Dec 07 17:15	6°  344'39		desc. node	7133 May 24 13:10	20°  57'00	
	7130 Dec 26 15:23	0° 			7133 Jun 01 13:30	0° 	
	7131 Jan 20 02:06	0° 			7133 Jun 27 08:57	0° 	
	7131 Feb 13 15:07	0° 			7133 Jul 22 14:06	0° 	
	7131 Mar 10 10:52	0° 			7133 Aug 16 12:49	0° 	
asc. node	7131 Mar 30 17:22	23°  055'47			7133 Sep 10 07:18	0° 	
	7131 Apr 04 23:36	0° 		asc. node	7133 Sep 14 12:39	5°  08'10	
	7131 May 02 06:31	0° 			7133 Oct 04 21:41	0° 	
evening max el	7131 May 07 00:36	4°  50'59	46°45'32	morning set	7133 Oct 28 20:07	29°  23'18	
	7131 Jun 05 11:56	0° 			7133 Oct 29 08:02	0° 	
greatest brilliancy	7131 Jun 15 12:11	5°  011'06	-4.8m		7133 Nov 22 15:11	0° 	
retrograde	7131 Jun 26 07:47	7°  022'08		max. Earth dist.	7133 Dec 02 09:15	12°  04'24	1.72755 AU
evening set	7131 Jul 11 07:42	2°  056'44					
	7131 Jul 16 07:18	30° 		superior conj	7133 Dec 04 14:12	14°  048'24	1°05'11
min. Earth dist.	7131 Jul 17 03:17	29°  29'00	0.28013 AU	minimum elong	7133 Dec 04 23:53	15°  018'23	1°04'57
inferior conj	7131 Jul 17 12:16	29°  15'04	0°43'37		7133 Dec 16 20:14	0° 	
minimum elong	7131 Jul 17 13:54	29°  12'31	0°43'02	desc. node	7134 Jan 04 05:10	22°  349'04	
desc. node	7131 Jul 20 10:39	27°  26'50			7134 Jan 09 23:46	0° 	
morning rise	7131 Jul 23 20:38	25°  29'02		evening rise	7134 Jan 12 00:36	2°  31'53	
direct	7131 Aug 07 14:02	21°  15'16			7134 Feb 03 01:57	0° 	
greatest brilliancy	7131 Aug 17 11:07	23°  01'26	-4.8m		7134 Feb 27 03:16	0° 	
	7131 Aug 30 24:00	0° 			7134 Mar 23 05:32	0° 	
morning max el	7131 Sep 25 09:16	21°  005'05	45°43'50		7134 Apr 16 12:10	0° 	
	7131 Oct 04 10:47	0° 		asc. node	7134 Apr 27 05:04	13°  005'41	
	7131 Nov 01 11:49	0° 			7134 May 11 04:19	0° 	
asc. node	7131 Nov 10 10:44	10°  06'39			7134 Jun 05 14:06	0° 	
	7131 Nov 27 15:11	0° 			7134 Jul 02 11:26	0° 	
	7131 Dec 22 19:10	0° 		evening max el	7134 Jul 17 01:20	14°  057'10	45°56'10
	7132 Jan 16 09:30	0° 			7134 Aug 02 16:43	0° 	
	7132 Feb 09 15:42	0° 		desc. node	7134 Aug 16 22:31	10°  00'01	
desc. node	7132 Mar 01 03:07	25°  31'48		greatest brilliancy	7134 Aug 24 10:16	13°  033'25	-4.7m
	7132 Mar 04 16:52	0° 		retrograde	7134 Sep 04 06:10	15°  040'20	
morning set	7132 Mar 24 20:06	25°  014'43		evening set	7134 Sep 21 07:33	10°  008'21	
	7132 Mar 28 14:57	0° 		inferior conj	7134 Sep 25 19:07	7°  022'25	-7°42'12
	7132 Apr 21 11:41	0° 		minimum elong	7134 Sep 25 11:05	7°  035'03	7°41'08
				min. Earth dist.	7134 Sep 25 10:36	7°  035'49	0.29123 AU
superior conj	7132 May 04 15:41	16°  032'40	-1°25'21	morning rise	7134 Sep 29 14:47	5°  00'30	
minimum elong	7132 May 04 20:53	16°  049'00	1°25'21		7134 Oct 10 15:25	30° 	
max. Earth dist.	7132 May 07 02:12	19°  036'22	1.71397 AU	direct	7134 Oct 17 09:08	29°  006'14	
	7132 May 15 09:04	0° 			7134 Oct 24 07:49	0° 	
	7132 Jun 08 08:59	0° 		greatest brilliancy	7134 Oct 27 12:13	0°  57'47	-4.7m
evening rise	7132 Jun 13 20:05	6°  048'11		morning max el	7134 Dec 05 10:50	29°  030'28	45°54'04
asc. node	7132 Jun 22 02:40	17° 005'09			7134 Dec 07 22:57	0°	
	7132 Jul 02 12:46	0°		asc. node	7134 Dec 07 22:28	1° 056'54	
	7132 Jul 26 21:17	0°			7135 Jan 03 07:54	0°	
	7132 Aug 20 11:47	0°			7135 Jan 29 07:33	0°	

	7135 Feb 23 06:53	0°♊		desc. node	7137 Sep 13 10:06	10°♎56'29	
	7135 Mar 19 17:49	0°♋		evening max el	7137 Sep 25 20:20	23°♎19'14	45°39'02
desc. node	7135 Mar 29 15:08	12°♋14'25			7137 Oct 03 01:06	0°♌	
	7135 Apr 12 22:01	0°♍		greatest brilliancy	7137 Nov 04 03:19	21°♌27'13	-4.7m
	7135 May 06 22:56	0°♎		retrograde	7137 Nov 13 13:28	23°♌04'21	
	7135 May 30 23:15	0°♏		evening set	7137 Nov 30 09:30	17°♌42'33	
morning set	7135 Jun 09 08:52	11°♏43'49		inferior conj	7137 Dec 04 19:07	15°♌02'19	-6°39'01
	7135 Jun 24 00:55	0°♐		minimum elong	7137 Dec 05 05:09	14°♌46'42	6°36'59
				min. Earth dist.	7137 Dec 05 16:56	14°♌28'23	0.28373 AU
superior conj	7135 Jul 18 00:47	29°♐47'18	-0°06'15	morning rise	7137 Dec 10 00:14	11°♌52'34	
minimum elong	7135 Jul 18 02:14	29°♐51'48	0°06'15	direct	7137 Dec 26 02:06	6°♌50'10	
behind sun begin	7135 Jul 17 04:02	28°♐43'02		asc. node	7138 Jan 04 10:20	8°♌28'20	
behind sun end	7135 Jul 19 00:26	1°♑00'32		greatest brilliancy	7138 Jan 06 08:16	9°♌10'21	-4.8m
	7135 Jul 18 04:53	0°♑			7138 Feb 04 18:03	0°♎	
asc. node	7135 Jul 20 14:38	2°♑58'48		morning max el	7138 Feb 14 08:37	9°♎17'23	46°38'51
max. Earth dist.	7135 Jul 20 22:12	3°♑22'14	1.72702 AU		7138 Mar 05 20:43	0°♊	
	7135 Aug 11 11:13	0°♒			7138 Apr 01 00:49	0°♋	
evening rise	7135 Aug 24 11:18	16°♒01'40		desc. node	7138 Apr 26 03:13	0°♍00'00	
	7135 Sep 04 19:51	0°♓			7138 Apr 26 03:13	0°♍	
	7135 Sep 29 07:19	0°♎			7138 May 20 17:57	0°♎	
	7135 Oct 23 22:47	0°♏			7138 Jun 14 03:43	0°♏	
desc. node	7135 Nov 09 07:26	19°♏46'33			7138 Jul 08 12:13	0°♐	
	7135 Nov 17 19:32	0°♑			7138 Aug 01 21:01	0°♑	
	7135 Dec 12 23:02	0°♊		asc. node	7138 Aug 17 02:36	18°♑44'32	
	7136 Jan 07 12:52	0°♋		morning set	7138 Aug 19 01:29	21°♑08'46	
	7136 Feb 03 00:53	0°♍			7138 Aug 26 06:07	0°♒	
evening max el	7136 Feb 21 06:29	19°♍16'52	47°00'01		7138 Sep 19 14:54	0°♓	
asc. node	7136 Mar 01 07:46	28°♍06'55		max. Earth dist.	7138 Sep 24 17:52	6°♓18'48	1.73367 AU
	7136 Mar 03 08:29	0°♎					
greatest brilliancy	7136 Apr 02 00:16	20°♎31'19	-4.9m	superior conj	7138 Sep 25 00:54	6°♓40'28	1°16'13
retrograde	7136 Apr 11 20:33	22°♎21'44		minimum elong	7138 Sep 24 17:18	6°♓17'03	1°16'03
evening set	7136 Apr 29 23:30	16°♎05'57			7138 Oct 13 23:13	0°♎	
inferior conj	7136 May 02 14:22	14°♎29'22	8°59'26	evening rise	7138 Oct 31 08:41	21°♎26'06	
minimum elong	7136 May 02 18:33	14°♎22'53	8°59'08		7138 Nov 07 07:36	0°♏	
min. Earth dist.	7136 May 02 11:09	14°♎34'20	0.27219 AU		7138 Dec 01 16:46	0°♑	
morning rise	7136 May 05 13:40	12°♎40'09		desc. node	7138 Dec 06 19:20	6°♑16'35	
direct	7136 May 23 05:55	6°♎41'34			7138 Dec 26 02:54	0°♊	
greatest brilliancy	7136 Jun 01 18:45	8°♎23'32	-4.9m		7139 Jan 19 14:06	0°♋	
desc. node	7136 Jun 21 00:53	19°♎38'19			7139 Feb 13 03:47	0°♍	
	7136 Jul 03 06:22	0°♏			7139 Mar 10 00:36	0°♎	
morning max el	7136 Jul 12 01:17	8°♏20'47	46°21'39	asc. node	7139 Mar 29 19:16	23°♎17'13	
	7136 Aug 01 22:43	0°♐			7139 Apr 04 15:23	0°♏	
	7136 Aug 28 21:00	0°♑			7139 May 02 03:33	0°♐	
	7136 Sep 23 18:08	0°♒		evening max el	7139 May 04 15:58	2°♐33'03	46°47'06
asc. node	7136 Oct 12 00:39	21°♒38'05			7139 Jun 06 23:40	0°♑	
	7136 Oct 19 00:29	0°♓		greatest brilliancy	7139 Jun 13 03:31	2°♑53'45	-4.8m
	7136 Nov 12 19:59	0°♎		retrograde	7139 Jun 23 23:35	5°♑05'03	
	7136 Dec 07 07:26	0°♏		evening set	7139 Jul 08 23:53	0°♑38'06	
	7136 Dec 31 13:17	0°♑			7139 Jul 10 02:59	30°♒00	
morning set	7137 Jan 06 11:38	7°♑22'19		inferior conj	7139 Jul 15 03:03	26°♑58'19	1°05'29
	7137 Jan 24 15:23	0°♊		minimum elong	7139 Jul 15 05:32	26°♑54'29	1°04'38
desc. node	7137 Jan 31 17:10	8°♊50'15		min. Earth dist.	7139 Jul 14 18:21	27°♑11'49	0.27974 AU
max. Earth dist.	7137 Feb 12 07:43	23°♊21'52	1.71540 AU	desc. node	7139 Jul 19 12:45	24°♑18'07	
				morning rise	7139 Jul 21 11:47	23°♑12'16	
superior conj	7137 Feb 15 01:55	26°♊49'15	-0°34'01	direct	7139 Aug 05 04:54	18°♑59'04	
minimum elong	7137 Feb 14 17:48	26°♊23'48	0°33'35	greatest brilliancy	7139 Aug 15 01:09	20°♑45'09	-4.8m
	7137 Feb 17 14:48	0°♋			7139 Aug 31 20:57	0°♑	
	7137 Mar 13 12:22	0°♍		morning max el	7139 Sep 23 01:21	18°♑54'11	45°44'27
evening rise	7137 Mar 27 11:30	17°♍32'47			7139 Oct 04 06:21	0°♒	
	7137 Apr 06 09:28	0°♎			7139 Nov 01 02:37	0°♓	
	7137 Apr 30 08:13	0°♏		asc. node	7139 Nov 09 12:40	9°♓32'09	
	7137 May 24 11:11	0°♐			7139 Nov 27 04:06	0°♎	
asc. node	7137 May 24 16:50	0°♐17'28			7139 Dec 22 07:10	0°♏	
	7137 Jun 17 21:04	0°♑			7140 Jan 15 21:02	0°♑	
	7137 Jul 12 17:17	0°♒			7140 Feb 09 03:01	0°♊	
	7137 Aug 07 06:00	0°♓		desc. node	7140 Feb 29 05:05	25°♊02'49	
	7137 Sep 03 01:27	0°♎			7140 Mar 04 04:05	0°♋	

morning set	7140 Mar 22 06:24	22° H 41'20	evening set	7142 Sep 18 20:39	8° L 03'11
	7140 Mar 28 02:06	0° Y	inferior conj	7142 Sep 23 11:22	5° L 12'40 -7°33'05
	7140 Apr 20 22:47	0° B	minimum elong	7142 Sep 23 02:55	5° L 25'58 7°31'53
superior conj	7140 May 02 02:50	14° B 02'07 -1°26'09	min. Earth dist.	7142 Sep 23 02:19	5° L 26'55 0.29104 AU
minimum elong	7140 May 02 07:02	14° B 15'19 1°26'10	morning rise	7142 Sep 27 09:17	2° L 47'13
max. Earth dist.	7140 May 04 12:34	17° B 03'24 1.71367 AU		7142 Oct 02 12:29	30° R M
	7140 May 14 20:08	0° II	direct	7142 Oct 15 00:48	26° M 56'53
	7140 Jun 07 20:03	0° G	greatest brilliancy	7142 Oct 25 03:50	28° M 47'50 -4.7m
evening rise	7140 Jun 11 08:46	4° G 23'52		7142 Oct 28 05:00	0° L
asc. node	7140 Jun 21 04:45	16° G 37'15	morning max el	7142 Dec 03 00:52	27° L 14'20 45°52'58
	7140 Jul 01 23:54	0° Q		7142 Dec 07 00:21	0° M
	7140 Jul 26 08:34	0° M	asc. node	7142 Dec 07 00:36	1° M 10'21
	7140 Aug 19 23:23	0° L		7143 Jan 02 23:18	0° X
	7140 Sep 13 23:00	0° M		7143 Jan 28 20:50	0° Z
	7140 Oct 09 12:07	0° X		7143 Feb 22 19:08	0° \approx
desc. node	7140 Oct 10 21:40	1° X 36'57	desc. node	7143 Mar 19 05:29	0° H
	7140 Nov 04 23:26	0° Z		7143 Mar 28 17:06	11° H 44'47
	7140 Dec 03 08:33	0° \approx		7143 Apr 12 09:19	0° Y
evening max el	7140 Dec 07 01:33	3° \approx 38'50 46°14'41		7143 May 06 10:01	0° B
	7141 Jan 09 02:10	0° H	morning set	7143 May 30 10:11	0° II
greatest brilliancy	7141 Jan 15 18:22	2° H 57'48 -4.8m		7143 Jun 06 22:23	9° II 22'23
retrograde	7141 Jan 25 14:36	4° H 45'21		7143 Jun 23 11:44	0° G
asc. node	7141 Jan 31 22:05	3° H 56'55	superior conj	7143 Jul 15 15:55	27° G 32'14 -0°09'45
evening set	7141 Feb 09 02:08	0° H 37'26	minimum elong	7143 Jul 15 18:10	27° G 39'13 0°09'42
	7141 Feb 10 05:24	30° R \approx	behind sun begin	7143 Jul 14 22:54	26° G 39'30
inferior conj	7141 Feb 15 05:44	27° \approx 00'40 3°36'29	behind sun end	7143 Jul 16 13:26	28° G 38'55
minimum elong	7141 Feb 14 21:57	27° \approx 12'37 3°34'11		7143 Jul 17 15:37	0° Q
min. Earth dist.	7141 Feb 15 05:28	27° \approx 01'05 0.26936 AU	max. Earth dist.	7143 Jul 18 13:57	1° Q 09'10 1.72659 AU
morning rise	7141 Feb 20 17:36	23° \approx 45'17	asc. node	7143 Jul 19 16:37	2° Q 31'42
direct	7141 Mar 07 22:46	19° \approx 12'50		7143 Aug 10 21:56	0° M
greatest brilliancy	7141 Mar 18 00:13	21° \approx 08'06 -4.9m	evening rise	7143 Aug 22 04:27	13° M 53'37
	7141 Apr 02 14:30	0° H		7143 Sep 04 06:38	0° L
morning max el	7141 Apr 27 11:35	22° H 11'03 46°58'30		7143 Sep 28 18:18	0° M
	7141 May 05 01:39	0° Y		7143 Oct 23 10:08	0° X
desc. node	7141 May 23 15:12	20° Y 15'37	desc. node	7143 Nov 08 09:31	19° X 17'32
	7141 Jun 01 05:13	0° B		7143 Nov 17 07:29	0° Z
	7141 Jun 26 22:35	0° II		7143 Dec 12 11:57	0° \approx
	7141 Jul 22 02:36	0° G		7144 Jan 07 03:25	0° H
	7141 Aug 16 00:35	0° Q		7144 Feb 02 18:50	0° Y
	7141 Sep 09 18:35	0° M	evening max el	7144 Feb 18 19:02	16° Y 50'28 46°59'25
asc. node	7141 Sep 13 14:33	4° M 39'45	asc. node	7144 Feb 29 09:43	27° Y 07'30
	7141 Oct 04 08:39	0° L		7144 Mar 03 13:45	0° B
morning set	7141 Oct 26 13:21	27° L 15'18	greatest brilliancy	7144 Mar 30 14:09	18° B 07'20 -4.9m
	7141 Oct 28 18:51	0° M	retrograde	7144 Apr 09 09:43	19° B 57'41
	7141 Nov 22 01:59	0° X	evening set	7144 Apr 27 14:07	13° B 40'02
max. Earth dist.	7141 Nov 29 23:59	9° X 47'56 1.72789 AU	inferior conj	7144 Apr 30 03:40	12° B 05'40 9°03'36
			minimum elong	7144 Apr 30 06:57	12° B 00'35 9°03'23
superior conj	7141 Dec 02 06:32	12° X 36'52 1°07'21	min. Earth dist.	7144 Apr 30 00:13	12° B 10'59 0.27201 AU
minimum elong	7141 Dec 02 16:02	13° X 06'18 1°07'07	morning rise	7144 May 02 23:49	10° B 21'19
	7141 Dec 16 07:05	0° Z	direct	7144 May 20 18:28	4° B 17'51
desc. node	7142 Jan 03 07:15	22° Z 21'43	greatest brilliancy	7144 May 30 07:56	6° B 00'26 -4.9m
	7142 Jan 09 10:43	0° \approx	desc. node	7144 Jun 20 03:00	18° B 27'53
evening rise	7142 Jan 09 14:49	0° \approx 12'46		7144 Jul 03 08:54	0° II
	7142 Feb 02 13:02	0° H	morning max el	7144 Jul 09 14:59	6° II 00'24 46°23'15
	7142 Feb 26 14:34	0° Y		7144 Aug 01 15:43	0° G
	7142 Mar 22 17:09	0° B		7144 Aug 28 10:54	0° Q
	7142 Apr 16 00:17	0° II		7144 Sep 23 06:33	0° M
asc. node	7142 Apr 26 07:02	12° II 34'00	asc. node	7144 Oct 11 02:39	21° M 08'52
	7142 May 10 17:14	0° G		7144 Oct 18 12:04	0° L
	7142 Jun 05 04:32	0° Q		7144 Nov 12 07:06	0° M
	7142 Jul 02 05:30	0° M		7144 Dec 06 18:17	0° X
evening max el	7142 Jul 14 16:14	12° M 42'09 45°57'33		7144 Dec 31 00:02	0° Z
	7142 Aug 03 02:41	0° L	morning set	7145 Jan 04 02:03	5° Z 04'29
desc. node	7142 Aug 16 00:28	8° L 36'07		7145 Jan 24 02:07	0° \approx
greatest brilliancy	7142 Aug 22 02:17	11° L 23'15 -4.7m	desc. node	7145 Jan 30 19:02	8° \approx 22'32
retrograde	7142 Sep 01 21:52	13° L 30'24	max. Earth dist.	7145 Feb 09 20:19	20° \approx 57'15 1.71576 AU

superior conj	7145 Feb 12 13:38	24° \approx 21'48	-0°30'24	direct	7147 Aug 02 20:00	16° \approx 44'49	
minimum elong	7145 Feb 12 06:16	23° \approx 58'45	0°30'00	greatest brilliancy	7147 Aug 12 14:55	18° \approx 30'11	-4.8m
	7145 Feb 17 01:34	0° \approx			7147 Sep 01 11:39	0° \approx	
	7145 Mar 12 23:11	0° \approx		morning max el	7147 Sep 20 16:40	16° \approx 43'01	45°44'56
evening rise	7145 Mar 24 22:30	15° \approx 02'36			7147 Oct 04 00:45	0° \approx	
	7145 Apr 05 20:20	0° \approx			7147 Oct 31 16:47	0° \approx	
	7145 Apr 29 19:10	0° \approx		asc. node	7147 Nov 08 14:45	8° \approx 59'30	
asc. node	7145 May 23 18:56	29° \approx 49'33			7147 Nov 26 16:34	0° \approx	
	7145 May 23 22:18	0° \approx			7147 Dec 21 18:48	0° \approx	
	7145 Jun 17 08:33	0° \approx			7148 Jan 15 08:15	0° \approx	
	7145 Jul 12 05:26	0° \approx			7148 Feb 08 14:00	0° \approx	
	7145 Aug 06 19:29	0° \approx		desc. node	7148 Feb 28 07:00	24° \approx 34'52	
	7145 Sep 02 17:56	0° \approx			7148 Mar 03 14:56	0° \approx	
desc. node	7145 Sep 12 12:02	10° \approx 13'45		morning set	7148 Mar 19 16:30	20° \approx 08'37	
evening max el	7145 Sep 23 11:32	21° \approx 07'33	45°38'42		7148 Mar 27 12:52	0° \approx	
	7145 Oct 03 03:50	0° \approx			7148 Apr 20 09:30	0° \approx	
greatest brilliancy	7145 Nov 01 16:36	19° \approx 12'59	-4.7m				
retrograde	7145 Nov 11 04:43	20° \approx 51'27		superior conj	7148 Apr 29 13:55	11° \approx 32'31	-1°26'46
evening set	7145 Nov 28 03:22	15° \approx 24'45		minimum elong	7148 Apr 29 17:06	11° \approx 42'30	1°26'48
inferior conj	7145 Dec 02 10:14	12° \approx 48'18	-6°51'58	max. Earth dist.	7148 May 01 22:02	14° \approx 28'45	1.71337 AU
minimum elong	7145 Dec 02 20:07	12° \approx 32'55	6°50'03		7148 May 14 06:49	0° \approx	
min. Earth dist.	7145 Dec 03 07:21	12° \approx 15'29	0.28434 AU		7148 Jun 07 06:45	0° \approx	
morning rise	7145 Dec 07 12:25	9° \approx 42'58		evening rise	7148 Jun 08 21:22	2° \approx 00'21	
direct	7145 Dec 23 18:15	4° \approx 35'31		asc. node	7148 Jun 20 06:43	16° \approx 10'08	
asc. node	7146 Jan 03 12:17	6° \approx 44'25			7148 Jul 01 10:38	0° \approx	
greatest brilliancy	7146 Jan 03 23:29	6° \approx 55'16	-4.8m		7148 Jul 25 19:26	0° \approx	
	7146 Feb 04 19:42	0° \approx			7148 Aug 19 10:34	0° \approx	
morning max el	7146 Feb 12 00:38	7° \approx 02'24	46°37'19		7148 Sep 13 10:50	0° \approx	
	7146 Mar 05 13:28	0° \approx			7148 Oct 09 01:11	0° \approx	
	7146 Mar 31 14:47	0° \approx		desc. node	7148 Oct 09 23:44	1° \approx 05'02	
desc. node	7146 Apr 25 05:12	29° \approx 27'45			7148 Nov 04 15:00	0° \approx	
	7146 Apr 25 15:51	0° \approx			7148 Dec 03 06:36	0° \approx	
	7146 May 20 05:47	0° \approx		evening max el	7148 Dec 04 15:16	1° \approx 19'38	46°12'41
	7146 Jun 13 15:00	0° \approx			7149 Jan 11 18:26	0° \approx	
	7146 Jul 07 23:07	0° \approx		greatest brilliancy	7149 Jan 13 08:10	0° \approx 35'00	-4.8m
	7146 Aug 01 07:40	0° \approx		retrograde	7149 Jan 23 02:43	2° \approx 21'01	
asc. node	7146 Aug 16 04:28	18° \approx 17'53		asc. node	7149 Jan 31 00:02	1° \approx 05'49	
morning set	7146 Aug 16 18:24	19° \approx 00'46			7149 Feb 02 22:45	30° \approx	
	7146 Aug 25 16:37	0° \approx		evening set	7149 Feb 06 13:47	28° \approx 15'01	
	7146 Sep 19 01:20	0° \approx		inferior conj	7149 Feb 12 18:39	24° \approx 36'34	3°14'00
				minimum elong	7149 Feb 12 11:34	24° \approx 47'27	3°11'53
superior conj	7146 Sep 22 18:47	4° \approx 35'30	1°14'41	min. Earth dist.	7149 Feb 12 19:46	24° \approx 34'52	0.26954 AU
minimum elong	7146 Sep 22 10:47	4° \approx 10'54	1°14'30	morning rise	7149 Feb 18 09:04	21° \approx 17'14	
max. Earth dist.	7146 Sep 22 15:41	4° \approx 25'59	1.73369 AU	direct	7149 Mar 05 11:39	16° \approx 48'15	
	7146 Oct 13 09:41	0° \approx		greatest brilliancy	7149 Mar 15 15:08	18° \approx 44'50	-4.9m
evening rise	7146 Oct 29 01:57	19° \approx 18'59			7149 Apr 03 07:55	0° \approx	
	7146 Nov 06 18:12	0° \approx		morning max el	7149 Apr 24 23:38	19° \approx 43'38	46°58'49
	7146 Dec 01 03:36	0° \approx			7149 May 04 21:22	0° \approx	
desc. node	7146 Dec 05 21:19	5° \approx 49'16		desc. node	7149 May 22 17:17	19° \approx 35'42	
	7146 Dec 25 14:05	0° \approx			7149 May 31 20:23	0° \approx	
	7147 Jan 19 01:47	0° \approx			7149 Jun 26 11:47	0° \approx	
	7147 Feb 12 16:09	0° \approx			7149 Jul 21 14:42	0° \approx	
	7147 Mar 09 14:04	0° \approx			7149 Aug 15 11:59	0° \approx	
asc. node	7147 Mar 28 21:19	22° \approx 39'53			7149 Sep 09 05:30	0° \approx	
	7147 Apr 04 06:59	0° \approx		asc. node	7149 Sep 12 16:36	4° \approx 12'55	
	7147 May 02 00:50	0° \approx			7149 Oct 03 19:16	0° \approx	
evening max el	7147 May 02 07:48	0° \approx 17'30	46°48'40	morning set	7149 Oct 24 06:54	25° \approx 09'16	
	7147 Jun 09 05:24	0° \approx			7149 Oct 28 05:20	0° \approx	
greatest brilliancy	7147 Jun 10 19:22	0° \approx 38'35	-4.8m		7149 Nov 21 12:28	0° \approx	
retrograde	7147 Jun 21 15:23	2° \approx 49'24		max. Earth dist.	7149 Nov 27 16:36	7° \approx 38'19	1.72831 AU
	7147 Jul 03 10:50	30° \approx					
evening set	7147 Jul 06 16:21	28° \approx 21'04		superior conj	7149 Nov 29 23:07	10° \approx 27'06	1°09'22
inferior conj	7147 Jul 12 17:56	24° \approx 43'13	1°27'11	minimum elong	7149 Nov 30 08:23	10° \approx 55'46	1°09'10
minimum elong	7147 Jul 12 21:12	24° \approx 38'08	1°26'06		7149 Dec 15 17:40	0° \approx	
min. Earth dist.	7147 Jul 12 09:28	24° \approx 56'21	0.27932 AU	desc. node	7150 Jan 02 09:10	21° \approx 54'28	
desc. node	7147 Jul 18 14:36	21° \approx 13'47		evening rise	7150 Jan 07 05:04	27° \approx 54'29	
morning rise	7147 Jul 19 02:45	20° \approx 57'17			7150 Jan 08 21:27	0° \approx	

	7150 Feb 01 23:58	0° H		morning max el	7152 Jul 07 05:16	3° II 40'36	46°25'04
	7150 Feb 26 01:45	0° Y			7152 Aug 01 08:34	0° G	
	7150 Mar 22 04:40	0° B			7152 Aug 28 00:46	0° Q	
	7150 Apr 15 12:16	0° II			7152 Sep 22 18:58	0° M	
asc. node	7150 Apr 25 09:07	12° II 03'05		asc. node	7152 Oct 10 04:40	20° M 39'36	
	7150 May 10 06:01	0° G			7152 Oct 17 23:41	0° Q	
	7150 Jun 04 18:54	0° Q			7152 Nov 11 18:15	0° M	
	7150 Jul 01 23:46	0° M			7152 Dec 06 05:11	0° J	
evening max el	7150 Jul 12 06:39	10° M 26'37	45°59'06		7152 Dec 30 10:49	0° Z	
	7150 Aug 03 15:39	0° Q		morning set	7153 Jan 01 17:09	2° Z 48'43	
desc. node	7150 Aug 15 02:29	7° Q 10'32			7153 Jan 23 12:55	0° \approx	
greatest brilliancy	7150 Aug 19 18:15	9° Q 13'54	-4.7m	desc. node	7153 Jan 29 21:02	7° \approx 55'02	
retrograde	7150 Aug 30 14:01	11° Q 21'52		max. Earth dist.	7153 Feb 07 10:18	18° \approx 36'52	1.71616 AU
evening set	7150 Sep 16 09:54	5° Q 59'07					
inferior conj	7150 Sep 21 03:48	3° Q 04'12	-7°23'18	superior conj	7153 Feb 10 01:48	21° \approx 55'40	-0°26'46
minimum elong	7150 Sep 20 18:57	3° Q 18'07	7°21'58	minimum elong	7153 Feb 09 19:16	21° \approx 35'11	0°26'25
min. Earth dist.	7150 Sep 20 18:12	3° Q 19'18	0.29081 AU		7153 Feb 16 12:25	0° H	
morning rise	7150 Sep 25 04:06	0° Q 35'15			7153 Mar 12 10:08	0° Y	
	7150 Sep 26 04:03	30° R M		evening rise	7153 Mar 22 09:40	12° Y 32'23	
direct	7150 Oct 12 16:24	24° M 48'44			7153 Apr 05 07:24	0° B	
greatest brilliancy	7150 Oct 22 19:52	26° M 39'40	-4.7m		7153 Apr 29 06:23	0° II	
	7150 Oct 30 05:29	0° Q		asc. node	7153 May 22 20:50	29° II 20'06	
morning max el	7150 Nov 30 15:28	25° Q 00'39	45°51'55		7153 May 23 09:44	0° G	
	7150 Dec 05 16:37	0° M			7153 Jun 16 20:22	0° Q	
asc. node	7150 Dec 06 02:31	0° M 24'56			7153 Jul 11 17:56	0° M	
	7151 Jan 02 14:14	0° J			7153 Aug 06 09:21	0° Q	
	7151 Jan 28 09:51	0° Z			7153 Sep 02 11:00	0° M	
	7151 Feb 22 07:15	0° \approx		desc. node	7153 Sep 11 14:06	9° M 30'09	
	7151 Mar 18 17:07	0° H		evening max el	7153 Sep 21 03:24	18° M 56'56	45°38'32
desc. node	7151 Mar 27 19:11	11° H 15'30			7153 Oct 03 08:32	0° J	
	7151 Apr 11 20:39	0° Y		greatest brilliancy	7153 Oct 30 06:25	16° J 59'25	-4.7m
	7151 May 05 21:07	0° B		retrograde	7153 Nov 08 20:06	18° J 38'37	
	7151 May 29 21:06	0° II		evening set	7153 Nov 25 21:28	13° J 07'25	
morning set	7151 Jun 04 11:31	6° II 59'40		inferior conj	7153 Nov 30 01:35	10° J 34'35	-7°04'09
	7151 Jun 22 22:30	0° G		minimum elong	7153 Nov 30 11:16	10° J 19'31	7°02'23
				min. Earth dist.	7153 Nov 30 21:49	10° J 03'05	0.28489 AU
superior conj	7151 Jul 13 06:53	25° G 16'49	-0°13'15	morning rise	7153 Dec 05 00:42	7° J 33'36	
minimum elong	7151 Jul 13 09:57	25° G 26'19	0°13'10	direct	7153 Dec 21 10:38	2° J 21'24	
behind sun begin	7151 Jul 12 20:05	24° G 43'20		greatest brilliancy	7154 Jan 01 14:14	4° J 39'43	-4.8m
behind sun end	7151 Jul 13 23:48	26° G 09'17		asc. node	7154 Jan 02 14:11	5° J 04'08	
max. Earth dist.	7151 Jul 16 04:57	28° G 53'55	1.72613 AU		7154 Feb 04 20:07	0° Z	
	7151 Jul 17 02:17	0° Q		morning max el	7154 Feb 09 16:25	4° Z 46'44	46°35'46
asc. node	7151 Jul 18 18:30	2° Q 04'33			7154 Mar 05 06:01	0° \approx	
	7151 Aug 10 08:35	0° M			7154 Mar 31 04:46	0° H	
evening rise	7151 Aug 19 21:44	11° M 46'11		desc. node	7154 Apr 24 07:14	28° H 55'05	
	7151 Sep 03 17:22	0° Q			7154 Apr 25 04:37	0° Y	
	7151 Sep 28 05:14	0° M			7154 May 19 17:52	0° B	
	7151 Oct 22 21:25	0° J			7154 Jun 13 02:37	0° II	
desc. node	7151 Nov 07 11:33	18° J 48'41			7154 Jul 07 10:24	0° G	
	7151 Nov 16 19:22	0° Z			7154 Jul 31 18:42	0° Q	
	7151 Dec 12 00:50	0° \approx		morning set	7154 Aug 14 10:56	16° Q 50'22	
	7152 Jan 06 18:05	0° H		asc. node	7154 Aug 15 06:33	17° Q 50'46	
	7152 Feb 02 13:17	0° Y			7154 Aug 25 03:28	0° M	
evening max el	7152 Feb 16 08:02	14° Y 24'58	46°58'27		7154 Sep 18 12:05	0° Q	
asc. node	7152 Feb 28 11:45	26° Y 06'14					
	7152 Mar 03 21:33	0° B		superior conj	7154 Sep 20 12:22	2° Q 28'41	1°13'02
greatest brilliancy	7152 Mar 28 03:05	15° B 40'55	-4.9m	minimum elong	7154 Sep 20 04:03	2° Q 03'05	1°12'50
retrograde	7152 Apr 06 23:03	17° B 31'55		max. Earth dist.	7154 Sep 20 13:13	2° Q 31'18	1.73363 AU
evening set	7152 Apr 25 03:46	11° B 12'59			7154 Oct 12 20:26	0° M	
inferior conj	7152 Apr 27 16:33	9° B 39'58	9°06'39	evening rise	7154 Oct 26 19:11	17° M 10'49	
minimum elong	7152 Apr 27 18:53	9° B 36'22	9°06'32		7154 Nov 06 05:06	0° J	
min. Earth dist.	7152 Apr 27 12:35	9° B 46'05	0.27185 AU		7154 Nov 30 14:45	0° Z	
morning rise	7152 Apr 30 10:03	7° B 59'52		desc. node	7154 Dec 04 23:13	5° Z 20'42	
direct	7152 May 18 07:08	1° B 52'10			7154 Dec 25 01:36	0° \approx	
greatest brilliancy	7152 May 27 20:20	3° B 34'58	-4.9m		7155 Jan 18 13:46	0° H	
desc. node	7152 Jun 19 04:51	17° B 17'52			7155 Feb 12 04:48	0° Y	
	7152 Jul 03 10:22	0° II			7155 Mar 09 03:52	0° B	

asc. node	7155 Mar 27 23:21	22°♄01'30			7157 Oct 03 06:16	0°♎	
	7155 Apr 03 23:06	0°♈		morning set	7157 Oct 22 00:07	23°♎00'57	
evening max el	7155 Apr 29 23:05	27°♈59'27	46°49'49		7157 Oct 27 16:13	0°♎	
	7155 May 01 23:22	0°♄			7157 Nov 20 23:20	0°♌	
greatest brilliancy	7155 Jun 08 11:35	28°♄22'06	-4.8m	max. Earth dist.	7157 Nov 25 10:41	5°♌32'10	1.72867 AU
	7155 Jun 14 01:33	0°♏					
retrograde	7155 Jun 19 06:30	0°♏31'30		superior conj	7157 Nov 27 15:29	8°♌15'33	1°11'18
	7155 Jun 24 08:19	30°♌		minimum elong	7157 Nov 28 00:28	8°♌43'21	1°11'08
evening set	7155 Jul 04 08:46	26°♄01'46			7157 Dec 15 04:35	0°♌	
inferior conj	7155 Jul 10 08:36	22°♄26'02	1°48'56	desc. node	7158 Jan 01 11:08	21°♌26'25	
minimum elong	7155 Jul 10 12:39	22°♄19'43	1°47'37	evening rise	7158 Jan 04 19:17	25°♌35'18	
min. Earth dist.	7155 Jul 10 00:41	22°♄38'20	0.27894 AU		7158 Jan 08 08:30	0°♌	
morning rise	7155 Jul 16 17:16	18°♄40'13			7158 Feb 01 11:13	0°♌	
desc. node	7155 Jul 17 16:39	18°♄09'36			7158 Feb 25 13:15	0°♌	
direct	7155 Jul 31 10:38	14°♄28'25			7158 Mar 21 16:30	0°♌	
greatest brilliancy	7155 Aug 10 04:49	16°♄13'09	-4.8m		7158 Apr 15 00:35	0°♈	
	7155 Sep 01 23:23	0°♏		asc. node	7158 Apr 24 11:01	11°♈30'37	
morning max el	7155 Sep 18 07:01	14°♏27'46	45°45'35		7158 May 09 19:08	0°♄	
	7155 Oct 03 19:14	0°♏			7158 Jun 04 09:41	0°♏	
	7155 Oct 31 07:14	0°♎			7158 Jul 01 18:46	0°♏	
asc. node	7155 Nov 07 16:41	8°♎25'28		evening max el	7158 Jul 09 21:15	8°♏10'52	46°00'40
	7155 Nov 26 05:18	0°♎			7158 Aug 04 09:37	0°♎	
	7155 Dec 21 06:42	0°♌		desc. node	7158 Aug 14 04:31	5°♎41'08	
	7156 Jan 14 19:45	0°♌		greatest brilliancy	7158 Aug 17 09:29	7°♎02'42	-4.7m
	7156 Feb 08 01:17	0°♌		retrograde	7158 Aug 28 06:28	9°♎12'16	
desc. node	7156 Feb 27 09:06	24°♌06'31		evening set	7158 Sep 13 23:02	3°♎53'40	
	7156 Mar 03 02:05	0°♌		inferior conj	7158 Sep 18 20:06	0°♎54'27	-7°12'52
morning set	7156 Mar 17 03:05	17°♌36'26		minimum elong	7158 Sep 18 10:56	1°♎08'52	7°11'23
	7156 Mar 26 23:55	0°♌		min. Earth dist.	7158 Sep 18 09:47	1°♎10'39	0.29063 AU
	7156 Apr 19 20:29	0°♌			7158 Sep 20 06:50	30°♌	
				morning rise	7158 Sep 22 22:54	28°♌22'00	
superior conj	7156 Apr 27 01:27	9°♌03'29	-1°27'12	direct	7158 Oct 10 08:06	22°♌39'10	
minimum elong	7156 Apr 27 03:36	9°♌10'13	1°27'16	greatest brilliancy	7158 Oct 20 11:47	24°♌30'15	-4.7m
max. Earth dist.	7156 Apr 29 05:44	11°♌47'42	1.71308 AU		7158 Oct 31 14:22	0°♎	
	7156 May 13 17:48	0°♈		morning max el	7158 Nov 28 06:58	22°♎48'08	45°50'55
evening rise	7156 Jun 06 10:03	29°♈36'01		asc. node	7158 Dec 05 04:28	29°♎39'06	
	7156 Jun 06 17:45	0°♄			7158 Dec 05 12:41	0°♎	
asc. node	7156 Jun 19 08:39	15°♄41'53			7159 Jan 02 05:19	0°♌	
	7156 Jun 30 21:44	0°♏			7159 Jan 27 23:03	0°♌	
	7156 Jul 25 06:43	0°♏			7159 Feb 21 19:33	0°♌	
	7156 Aug 18 22:14	0°♎			7159 Mar 18 04:54	0°♌	
	7156 Sep 12 23:11	0°♎		desc. node	7159 Mar 26 21:05	10°♌45'13	
	7156 Oct 08 14:50	0°♌			7159 Apr 11 08:08	0°♌	
desc. node	7156 Oct 09 01:43	0°♌31'21			7159 May 05 08:23	0°♌	
	7156 Nov 04 07:17	0°♌			7159 May 29 08:11	0°♈	
evening max el	7156 Dec 02 04:12	28°♌57'39	46°10'54	morning set	7159 Jun 02 00:36	4°♈36'08	
	7156 Dec 03 06:02	0°♌			7159 Jun 22 09:26	0°♄	
greatest brilliancy	7157 Jan 10 22:10	28°♌11'46	-4.8m				
retrograde	7157 Jan 20 14:53	29°♌56'29		superior conj	7159 Jul 10 21:51	23°♌00'46	-0°16'43
asc. node	7157 Jan 30 02:08	28°♌08'38		minimum elong	7159 Jul 11 01:43	23°♌12'45	0°16'37
evening set	7157 Feb 04 01:48	25°♌51'35		max. Earth dist.	7159 Jul 13 20:20	26°♌39'18	1.72568 AU
inferior conj	7157 Feb 10 07:43	22°♌12'01	2°51'19		7159 Jul 16 13:07	0°♏	
minimum elong	7157 Feb 10 01:22	22°♌21'46	2°49'25	asc. node	7159 Jul 17 20:35	1°♏37'29	
min. Earth dist.	7157 Feb 10 10:21	22°♌07'58	0.26975 AU		7159 Aug 09 19:23	0°♏	
morning rise	7157 Feb 16 00:32	18°♌49'05		evening rise	7159 Aug 17 15:04	9°♏38'28	
direct	7157 Mar 03 00:25	14°♌22'56			7159 Sep 03 04:16	0°♎	
greatest brilliancy	7157 Mar 13 06:34	16°♌21'31	-4.9m		7159 Sep 27 16:22	0°♎	
	7157 Apr 03 21:17	0°♌			7159 Oct 22 08:57	0°♌	
morning max el	7157 Apr 22 12:13	17°♌16'40	46°59'14	desc. node	7159 Nov 06 13:24	18°♌18'27	
	7157 May 04 16:49	0°♌			7159 Nov 16 07:34	0°♌	
desc. node	7157 May 21 19:09	18°♌54'48			7159 Dec 11 14:06	0°♌	
	7157 May 31 11:36	0°♌			7160 Jan 06 09:13	0°♌	
	7157 Jun 26 01:09	0°♈			7160 Feb 02 08:26	0°♌	
	7157 Jul 21 03:03	0°♄		evening max el	7160 Feb 13 21:53	12°♌01'20	46°57'37
	7157 Aug 14 23:41	0°♏		asc. node	7160 Feb 27 13:45	25°♌03'01	
	7157 Sep 08 16:46	0°♏			7160 Mar 04 08:23	0°♌	
asc. node	7157 Sep 11 18:36	3°♏44'46		greatest brilliancy	7160 Mar 25 15:32	13°♌13'44	-4.9m

retrograde	7160 Apr 04 12:48	15°♄05'38		superior conj	7162 Sep 18 06:05	0°♁22'48	1°11'18
evening set	7160 Apr 22 16:54	8°♄46'16		minimum elong	7162 Sep 17 21:29	29°♎56'19	1°11'03
inferior conj	7160 Apr 25 05:24	7°♄13'45	9°08'51	max. Earth dist.	7162 Sep 18 09:10	0°♁32'15	1.73353 AU
minimum elong	7160 Apr 25 06:46	7°♄11'39	9°08'47		7162 Oct 12 07:03	0°♎	
min. Earth dist.	7160 Apr 25 00:34	7°♄21'11	0.27168 AU	evening rise	7162 Oct 24 12:36	15°♎03'51	
morning rise	7160 Apr 27 20:41	5°♄37'10			7162 Nov 05 15:50	0°♊	
	7160 May 10 14:41	30°♋			7162 Nov 30 01:44	0°♊	
direct	7160 May 15 20:13	29°♋26'13		desc. node	7162 Dec 04 01:18	4°♊53'14	
	7160 May 21 05:03	0°♄			7162 Dec 24 12:58	0°♋	
greatest brilliancy	7160 May 25 08:09	1°♄08'26	-4.9m		7163 Jan 18 01:39	0°♋	
desc. node	7160 Jun 18 06:54	16°♄09'52			7163 Feb 11 17:27	0°♋	
	7160 Jul 03 10:42	0°♈			7163 Mar 08 17:44	0°♄	
morning max el	7160 Jul 04 19:56	1°♈21'31	46°26'47	asc. node	7163 Mar 27 01:15	21°♄22'32	
	7160 Aug 01 01:08	0°♄			7163 Apr 03 15:25	0°♈	
	7160 Aug 27 14:33	0°♈		evening max el	7163 Apr 27 13:26	25°♈39'12	46°51'10
	7160 Sep 22 07:20	0°♎			7163 May 01 22:43	0°♄	
asc. node	7160 Oct 09 06:35	20°♎10'04		greatest brilliancy	7163 Jun 06 04:21	26°♄06'40	-4.8m
	7160 Oct 17 11:17	0°♁		retrograde	7163 Jun 16 21:11	28°♄14'10	
	7160 Nov 11 05:26	0°♎		evening set	7163 Jul 02 01:21	23°♄42'44	
	7160 Dec 05 16:10	0°♊		inferior conj	7163 Jul 07 23:17	20°♄09'33	2°10'36
	7160 Dec 29 21:44	0°♊		minimum elong	7163 Jul 08 04:07	20°♄02'02	2°09'03
morning set	7160 Dec 30 08:04	0°♊32'05		min. Earth dist.	7163 Jul 07 16:12	20°♄20'36	0.27854 AU
	7161 Jan 22 23:49	0°♋		morning rise	7163 Jul 14 07:33	16°♄23'58	
desc. node	7161 Jan 28 23:07	7°♋27'28		desc. node	7163 Jul 16 18:44	15°♄09'30	
max. Earth dist.	7161 Feb 04 21:29	16°♋07'29	1.71652 AU	direct	7163 Jul 29 00:43	12°♄12'36	
				greatest brilliancy	7163 Aug 07 19:08	13°♄57'11	-4.8m
superior conj	7161 Feb 07 13:44	19°♋28'31	-0°23'05		7163 Sep 02 07:42	0°♈	
minimum elong	7161 Feb 07 08:04	19°♋10'46	0°22'45	morning max el	7163 Sep 15 20:54	12°♈12'01	45°46'19
	7161 Feb 15 23:23	0°♋			7163 Oct 03 12:57	0°♎	
	7161 Mar 11 21:09	0°♋			7163 Oct 30 21:12	0°♁	
evening rise	7161 Mar 19 20:35	10°♋01'15		asc. node	7163 Nov 06 18:36	7°♁52'24	
	7161 Apr 04 18:29	0°♄			7163 Nov 25 17:40	0°♎	
	7161 Apr 28 17:35	0°♈			7163 Dec 20 18:17	0°♊	
asc. node	7161 May 21 22:48	28°♈50'52			7164 Jan 14 06:56	0°♊	
	7161 May 22 21:11	0°♄			7164 Feb 07 12:16	0°♋	
	7161 Jun 16 08:12	0°♈		desc. node	7164 Feb 26 11:01	23°♋38'27	
	7161 Jul 11 06:29	0°♎			7164 Mar 02 12:59	0°♋	
	7161 Aug 05 23:19	0°♁		morning set	7164 Mar 14 13:24	15°♋04'04	
	7161 Sep 02 04:21	0°♎			7164 Mar 26 10:45	0°♋	
desc. node	7161 Sep 10 16:06	8°♎45'58			7164 Apr 19 07:18	0°♄	
evening max el	7161 Sep 18 19:06	16°♎46'08	45°38'20				
	7161 Oct 03 15:11	0°♊		superior conj	7164 Apr 24 12:31	6°♄33'32	-1°27'29
greatest brilliancy	7161 Oct 27 20:40	14°♊46'42	-4.7m	minimum elong	7164 Apr 24 13:34	6°♄36'51	1°27'31
retrograde	7161 Nov 06 10:55	16°♊26'00		max. Earth dist.	7164 Apr 26 08:59	8°♄53'13	1.71282 AU
evening set	7161 Nov 23 15:30	10°♊50'38			7164 May 13 04:35	0°♈	
inferior conj	7161 Nov 27 16:58	8°♊21'17	-7°15'36	evening rise	7164 Jun 03 22:08	27°♈10'27	
minimum elong	7161 Nov 28 02:20	8°♊06'40	7°13'59		7164 Jun 06 04:32	0°♄	
min. Earth dist.	7161 Nov 28 12:29	7°♊50'50	0.28546 AU	asc. node	7164 Jun 18 10:43	15°♄14'50	
morning rise	7161 Dec 02 12:53	5°♊24'33			7164 Jun 30 08:33	0°♈	
direct	7161 Dec 19 02:51	0°♊07'40			7164 Jul 24 17:43	0°♎	
greatest brilliancy	7161 Dec 30 05:06	2°♊24'24	-4.8m		7164 Aug 18 09:37	0°♁	
asc. node	7162 Jan 01 16:19	3°♊27'40			7164 Sep 12 11:17	0°♎	
	7162 Feb 04 19:31	0°♊		desc. node	7164 Oct 08 03:39	29°♎58'15	
morning max el	7162 Feb 07 07:23	2°♊28'54	46°34'04		7164 Oct 08 04:15	0°♊	
	7162 Mar 04 22:20	0°♋			7164 Nov 03 23:27	0°♊	
	7162 Mar 30 18:40	0°♋		evening max el	7164 Nov 29 17:03	26°♊36'55	46°09'14
desc. node	7162 Apr 23 09:10	28°♋22'23			7164 Dec 03 06:02	0°♋	
	7162 Apr 24 17:18	0°♋		greatest brilliancy	7165 Jan 08 11:47	25°♋49'40	-4.8m
	7162 May 19 05:48	0°♄		retrograde	7165 Jan 18 03:29	27°♋33'51	
	7162 Jun 12 14:04	0°♈		asc. node	7165 Jan 29 04:02	25°♋08'15	
	7162 Jul 06 21:30	0°♄		evening set	7165 Feb 01 14:07	23°♋29'20	
	7162 Jul 31 05:34	0°♈		inferior conj	7165 Feb 07 20:52	19°♋49'04	2°28'27
morning set	7162 Aug 12 03:28	14°♈40'26		minimum elong	7165 Feb 07 15:18	19°♋57'36	2°26'45
asc. node	7162 Aug 14 08:31	17°♈23'43		min. Earth dist.	7165 Feb 08 00:52	19°♋42'55	0.27002 AU
	7162 Aug 24 14:10	0°♎		morning rise	7165 Feb 13 15:58	16°♋23'00	
	7162 Sep 17 22:41	0°♁		direct	7165 Feb 28 13:25	11°♋59'01	
				greatest brilliancy	7165 Mar 10 22:04	13°♋59'51	-4.9m

	7165 Apr 04 06:43	0°				7167 Oct 21 20:12	0°		
morning max el	7165 Apr 20 01:54	14°53'25	46°59'25	desc. node		7167 Nov 05 15:31	17°49'50		
	7165 May 04 11:26	0°				7167 Nov 15 19:30	0°		
desc. node	7165 May 20 21:12	18°15'35				7167 Dec 11 03:09	0°		
	7165 May 31 02:24	0°				7168 Jan 06 00:13	0°		
	7165 Jun 25 14:12	0°				7168 Feb 02 03:45	0°		
	7165 Jul 20 15:04	0°		evening max el		7168 Feb 11 12:51	9°41'35	46°56'43	
	7165 Aug 14 11:01	0°		asc. node		7168 Feb 26 15:42	23°59'14		
	7165 Sep 08 03:39	0°				7168 Mar 04 22:11	0°		
asc. node	7165 Sep 10 20:29	3°17'28		greatest brilliancy		7168 Mar 23 04:15	10°48'22	-4.9m	
	7165 Oct 02 16:54	0°		retrograde		7168 Apr 02 02:41	12°40'48		
morning set	7165 Oct 19 17:22	20°53'55		evening set		7168 Apr 20 05:42	6°22'10		
	7165 Oct 27 02:44	0°		inferior conj		7168 Apr 22 18:26	4°49'14	9°10'02	
	7165 Nov 20 09:50	0°		minimum elong		7168 Apr 22 18:50	4°48'36	9°09'59	
max. Earth dist.	7165 Nov 23 06:03	3°31'01	1.72902 AU	min. Earth dist.		7168 Apr 22 12:42	4°58'03	0.27147 AU	
				morning rise		7168 Apr 25 08:04	3°15'09		
superior conj	7165 Nov 25 08:04	6°05'46	1°13'07			7168 May 01 07:07	30°		
minimum elong	7165 Nov 25 16:43	6°32'35	1°12'58	direct		7168 May 13 09:40	27°02'12		
	7165 Dec 14 15:09	0°		greatest brilliancy		7168 May 22 19:51	28°43'15	-4.9m	
desc. node	7165 Dec 31 13:13	20°59'50				7168 May 26 02:08	0°		
evening rise	7166 Jan 02 09:54	23°18'34		desc. node		7168 Jun 17 08:59	15°05'08		
	7166 Jan 07 19:11	0°		morning max el		7168 Jul 02 10:21	29°02'52	46°28'19	
	7166 Jan 31 22:05	0°				7168 Jul 03 09:26	0°		
	7166 Feb 25 00:22	0°				7168 Jul 31 17:04	0°		
	7166 Mar 21 03:58	0°				7168 Aug 27 03:56	0°		
	7166 Apr 14 12:34	0°				7168 Sep 21 19:27	0°		
asc. node	7166 Apr 23 13:01	10°59'25		asc. node		7168 Oct 08 08:36	19°41'30		
	7166 May 09 08:01	0°				7168 Oct 16 22:39	0°		
	7166 Jun 04 00:21	0°				7168 Nov 10 16:23	0°		
	7166 Jul 01 14:02	0°				7168 Dec 05 02:53	0°		
evening max el	7166 Jul 07 12:50	5°58'21	46°02'22	morning set		7168 Dec 27 23:08	28°16'49		
	7166 Aug 05 09:35	0°				7168 Dec 29 08:22	0°		
desc. node	7166 Aug 13 06:27	4°09'27				7169 Jan 22 10:30	0°		
greatest brilliancy	7166 Aug 15 00:25	4°52'00	-4.7m	desc. node		7169 Jan 28 01:01	7°00'00		
retrograde	7166 Aug 25 23:25	7°03'28		max. Earth dist.		7169 Feb 02 06:43	13°32'50	1.71691 AU	
evening set	7166 Sep 11 12:14	1°48'59							
	7166 Sep 14 12:40	30°		superior conj		7169 Feb 05 01:58	17°03'06	-0°19'22	
min. Earth dist.	7166 Sep 16 01:05	29°03'12	0.29039 AU	minimum elong		7169 Feb 04 21:11	16°48'09	0°19'05	
inferior conj	7166 Sep 16 12:23	28°45'29	-7°01'48			7169 Feb 15 10:07	0°		
minimum elong	7166 Sep 16 02:56	29°00'18	7°00'10			7169 Mar 11 07:58	0°		
morning rise	7166 Sep 20 17:47	26°09'31		evening rise		7169 Mar 17 07:44	7°31'28		
direct	7166 Oct 08 00:09	20°30'35				7169 Apr 04 05:22	0°		
greatest brilliancy	7166 Oct 18 03:03	22°21'16	-4.7m			7169 Apr 28 04:35	0°		
	7166 Nov 01 13:11	0°		asc. node		7169 May 21 00:53	28°22'42		
morning max el	7166 Nov 25 23:19	20°39'00	45°49'54			7169 May 22 08:24	0°		
asc. node	7166 Dec 04 06:35	28°55'31				7169 Jun 15 19:49	0°		
	7166 Dec 05 07:43	0°				7169 Jul 10 18:52	0°		
	7167 Jan 01 19:48	0°				7169 Aug 05 13:14	0°		
	7167 Jan 27 11:47	0°				7169 Sep 01 21:56	0°		
	7167 Feb 21 07:24	0°		desc. node		7169 Sep 09 18:03	8°01'27		
	7167 Mar 17 16:16	0°		evening max el		7169 Sep 16 10:24	14°34'39	45°38'05	
desc. node	7167 Mar 25 23:04	10°16'25				7169 Oct 04 00:14	0°		
	7167 Apr 10 19:12	0°		greatest brilliancy		7169 Oct 25 11:36	12°35'14	-4.7m	
	7167 May 04 19:16	0°		retrograde		7169 Nov 04 01:25	14°14'15		
	7167 May 28 18:54	0°		evening set		7169 Nov 21 09:37	8°34'48		
morning set	7167 May 30 13:43	2°13'44		inferior conj		7169 Nov 25 08:33	6°08'59	-7°26'20	
	7167 Jun 21 20:02	0°		minimum elong		7169 Nov 25 17:34	5°54'53	7°24'51	
				min. Earth dist.		7169 Nov 26 03:38	5°39'08	0.28600 AU	
superior conj	7167 Jul 08 12:34	20°44'44	-0°20'13	morning rise		7169 Nov 30 01:12	3°16'33		
minimum elong	7167 Jul 08 17:13	20°59'11	0°20'03			7169 Dec 06 13:45	30°		
max. Earth dist.	7167 Jul 11 12:20	24°27'22	1.72526 AU	direct		7169 Dec 16 18:46	27°15'45		
	7167 Jul 15 23:39	0°				7169 Dec 27 09:32	0°		
asc. node	7167 Jul 16 22:33	1°10'55		greatest brilliancy		7169 Dec 27 20:34	0°10'34	-4.8m	
	7167 Aug 09 05:56	0°		asc. node		7169 Dec 31 18:14	1°54'56		
evening rise	7167 Aug 15 08:07	7°30'40				7170 Feb 04 17:44	0°		
	7167 Sep 02 14:54	0°		morning max el		7170 Feb 04 21:35	0°09'40	46°32'22	
	7167 Sep 27 03:12	0°				7170 Mar 04 14:14	0°		

	7170 Mar 30 08:18	0° H	evening max el	7172 Nov 27 06:33	24° Z 17'10	46°07'30
desc. node	7170 Apr 22 11:11	27° H 50'24		7172 Dec 03 07:39	0° \approx	
	7170 Apr 24 05:48	0° Y	greatest brilliancy	7173 Jan 06 00:53	23° \approx 26'07	-4.8m
	7170 May 18 17:36	0° B	retrograde	7173 Jan 15 16:35	25° \approx 10'19	
	7170 Jun 12 01:24	0° II	asc. node	7173 Jan 28 06:01	22° \approx 02'12	
	7170 Jul 06 08:30	0° E	evening set	7173 Jan 30 02:40	21° \approx 05'48	
	7170 Jul 30 16:19	0° O	inferior conj	7173 Feb 05 09:59	17° \approx 25'03	2°05'10
morning set	7170 Aug 09 20:14	12° O 31'26	minimum elong	7173 Feb 05 05:15	17° \approx 32'19	2°03'44
asc. node	7170 Aug 13 10:25	16° O 56'50	min. Earth dist.	7173 Feb 05 15:08	17° \approx 17'10	0.27032 AU
	7170 Aug 24 00:45	0° P	morning rise	7173 Feb 11 07:16	13° \approx 56'15	
			direct	7173 Feb 26 02:57	9° \approx 34'09	
superior conj	7170 Sep 16 00:00	28° P 17'41	greatest brilliancy	7173 Mar 08 13:12	11° \approx 36'53	-4.9m
minimum elong	7170 Sep 15 15:09	27° P 50'26		7173 Apr 04 13:57	0° H	
max. Earth dist.	7170 Sep 16 04:00	28° P 29'59	1.73348 AU	morning max el	7173 Apr 17 16:23	12° H 31'28
	7170 Sep 17 09:14	0° L			7173 May 04 05:52	0° Y
	7170 Oct 11 17:38	0° M		desc. node	7173 May 19 23:17	17° Y 36'07
evening rise	7170 Oct 22 06:09	12° M 57'17			7173 May 30 17:16	0° B
	7170 Nov 05 02:35	0° X			7173 Jun 25 03:25	0° II
	7170 Nov 29 12:46	0° Z			7173 Jul 20 03:20	0° E
desc. node	7170 Dec 03 03:18	4° Z 25'24			7173 Aug 13 22:39	0° O
	7170 Dec 24 00:22	0° \approx			7173 Sep 07 14:51	0° P
	7171 Jan 17 13:35	0° H		asc. node	7173 Sep 09 22:33	2° P 49'46
	7171 Feb 11 06:09	0° Y			7173 Oct 02 03:50	0° L
	7171 Mar 08 07:46	0° B		morning set	7173 Oct 17 10:54	18° L 46'51
asc. node	7171 Mar 26 03:17	20° B 43'31			7173 Oct 26 13:33	0° M
	7171 Apr 03 08:07	0° II			7173 Nov 19 20:39	0° X
evening max el	7171 Apr 25 03:04	23° II 16'49	46°52'23	max. Earth dist.	7173 Nov 21 02:40	1° X 32'51
	7171 May 01 23:18	0° E				1.72936 AU
greatest brilliancy	7171 Jun 03 21:16	23° E 50'56	-4.8m	superior conj	7173 Nov 23 00:52	3° X 55'47
retrograde	7171 Jun 14 11:43	25° E 56'40		minimum elong	7173 Nov 23 09:09	4° X 21'22
evening set	7171 Jun 29 18:02	21° E 23'02			7173 Dec 14 02:03	0° Z
inferior conj	7171 Jul 05 13:59	17° E 52'53	2°32'06	desc. node	7173 Dec 30 15:07	20° Z 31'35
minimum elong	7171 Jul 05 19:33	17° E 44'12	2°30'20	evening rise	7173 Dec 31 00:37	21° Z 01'02
min. Earth dist.	7171 Jul 05 07:58	18° E 02'15	0.27815 AU		7174 Jan 07 06:15	0° \approx
morning rise	7171 Jul 11 21:37	14° E 07'51			7174 Jan 31 09:22	0° H
desc. node	7171 Jul 15 20:35	12° E 13'27			7174 Feb 24 11:56	0° Y
direct	7171 Jul 26 14:23	9° E 56'21			7174 Mar 20 15:53	0° B
greatest brilliancy	7171 Aug 05 09:55	11° E 41'32	-4.8m		7174 Apr 14 01:01	0° II
	7171 Sep 02 13:37	0° O		asc. node	7174 Apr 22 15:04	10° II 27'03
morning max el	7171 Sep 13 10:50	9° O 56'13	45°47'12		7174 May 08 21:24	0° E
	7171 Oct 03 06:17	0° P			7174 Jun 03 15:40	0° O
	7171 Oct 30 11:05	0° L			7174 Jul 01 10:26	0° P
asc. node	7171 Nov 05 20:43	7° L 19'49		evening max el	7174 Jul 05 05:11	3° P 46'17
	7171 Nov 25 06:05	0° M			7174 Aug 06 20:37	0° L
	7171 Dec 20 06:00	0° X		desc. node	7174 Aug 12 08:30	2° L 33'10
	7172 Jan 13 18:17	0° Z		greatest brilliancy	7174 Aug 12 15:22	2° L 39'48
	7172 Feb 06 23:25	0° \approx		retrograde	7174 Aug 23 16:19	4° L 52'48
desc. node	7172 Feb 25 13:00	23° \approx 10'07			7174 Sep 08 13:17	30° R P
	7172 Mar 02 00:00	0° H		evening set	7174 Sep 09 01:23	29° P 42'41
morning set	7172 Mar 11 23:44	12° H 31'19		min. Earth dist.	7174 Sep 13 16:10	26° P 54'10
	7172 Mar 25 21:44	0° Y		inferior conj	7174 Sep 14 04:30	26° P 34'50
	7172 Apr 18 18:15	0° B		minimum elong	7174 Sep 13 18:51	26° P 49'57
				morning rise	7174 Sep 18 12:32	23° P 55'13
superior conj	7172 Apr 21 23:30	4° B 02'49	-1°27'34	direct	7174 Oct 05 16:24	18° P 20'30
minimum elong	7172 Apr 21 23:27	4° B 02'38	1°27'37	greatest brilliancy	7174 Oct 15 17:39	20° P 10'07
max. Earth dist.	7172 Apr 23 11:46	5° B 56'47	1.71263 AU		7174 Nov 02 06:38	0° L
	7172 May 12 15:34	0° II		morning max el	7174 Nov 23 15:36	18° L 28'46
evening rise	7172 Jun 01 10:09	24° II 43'58		asc. node	7174 Dec 03 08:29	28° L 10'58
	7172 Jun 05 15:32	0° E			7174 Dec 05 02:37	0° M
asc. node	7172 Jun 17 12:39	14° E 46'38			7175 Jan 01 10:29	0° X
	7172 Jun 29 19:37	0° O			7175 Jan 27 00:49	0° Z
	7172 Jul 24 04:58	0° P			7175 Feb 20 19:38	0° \approx
	7172 Aug 17 21:14	0° L			7175 Mar 17 04:05	0° H
	7172 Sep 11 23:38	0° M		desc. node	7175 Mar 25 01:09	9° H 46'33
desc. node	7172 Oct 07 05:44	29° M 24'53			7175 Apr 10 06:45	0° Y
	7172 Oct 07 18:01	0° X			7175 May 04 06:35	0° B
	7172 Nov 03 16:11	0° Z		morning set	7175 May 28 02:27	29° B 48'44

	7175 May 28 06:03	0°♂	retrograde	7177 Nov 01 15:50	12°♂01'37	
	7175 Jun 21 07:03	0°♂	evening set	7177 Nov 19 03:34	6°♂17'56	
			inferior conj	7177 Nov 23 00:04	3°♂55'42	-7°36'19
superior conj	7175 Jul 06 02:58	18°♂26'21 -0°23'41	minimum elong	7177 Nov 23 08:41	3°♂42'13	7°35'01
minimum elong	7175 Jul 06 08:24	18°♂43'12 0°23'30	min. Earth dist.	7177 Nov 23 18:56	3°♂26'09	0.28651 AU
max. Earth dist.	7175 Jul 09 06:21	22°♂20'18 1.72483 AU	morning rise	7177 Nov 27 13:28	1°♂07'44	
	7175 Jul 15 10:37	0°♂		7177 Nov 29 13:11	30°♂	
asc. node	7175 Jul 16 00:27	0°♂42'52	direct	7177 Dec 14 10:11	25°♂40'56	
	7175 Aug 08 16:54	0°♂	greatest brilliancy	7177 Dec 25 12:32	27°♂56'28	-4.8m
evening rise	7175 Aug 13 01:03	5°♂21'06		7177 Dec 30 01:32	0°♂	
	7175 Sep 02 01:59	0°♂	asc. node	7177 Dec 30 20:11	0°♂24'25	
	7175 Sep 26 14:30	0°♂	morning max el	7178 Feb 02 11:36	27°♂49'17	46°30'56
	7175 Oct 21 07:54	0°♂		7178 Feb 04 15:23	0°♂	
desc. node	7175 Nov 04 17:31	17°♂19'39		7178 Mar 04 06:04	0°♂	
	7175 Nov 15 07:52	0°♂		7178 Mar 29 21:58	0°♂	
	7175 Dec 10 16:39	0°♂	desc. node	7178 Apr 21 13:11	27°♂18'01	
	7176 Jan 05 15:49	0°♂		7178 Apr 23 18:23	0°♂	
	7176 Feb 02 00:08	0°♂		7178 May 18 05:33	0°♂	
evening max el	7176 Feb 09 03:29	7°♂19'43 46°55'30		7178 Jun 11 12:55	0°♂	
asc. node	7176 Feb 25 17:44	22°♂52'30		7178 Jul 05 19:44	0°♂	
	7176 Mar 05 17:39	0°♂		7178 Jul 30 03:19	0°♂	
greatest brilliancy	7176 Mar 20 17:12	8°♂21'23 -4.9m	morning set	7178 Aug 07 12:33	10°♂20'12	
retrograde	7176 Mar 30 15:52	10°♂13'32	asc. node	7178 Aug 12 12:30	16°♂29'45	
evening set	7176 Apr 17 17:37	3°♂56'58		7178 Aug 23 11:35	0°♂	
inferior conj	7176 Apr 20 07:15	2°♂22'31 9°10'04				
minimum elong	7176 Apr 20 06:41	2°♂23'24 9°10'02	superior conj	7178 Sep 13 17:34	26°♂10'52	1°07'30
min. Earth dist.	7176 Apr 20 00:57	2°♂32'15 0.27127 AU	minimum elong	7178 Sep 13 08:32	25°♂43'01	1°07'13
morning rise	7176 Apr 22 19:51	0°♂49'54	max. Earth dist.	7178 Sep 13 22:03	26°♂24'40	1.73340 AU
	7176 Apr 24 05:32	30°♂		7178 Sep 16 19:58	0°♂	
direct	7176 May 10 22:46	24°♂36'01		7178 Oct 11 04:25	0°♂	
greatest brilliancy	7176 May 20 07:54	26°♂16'10 -4.9m	evening rise	7178 Oct 19 23:34	10°♂49'48	
	7176 May 28 11:06	0°♂		7178 Nov 04 13:32	0°♂	
desc. node	7176 Jun 16 10:52	13°♂59'54		7178 Nov 28 24:00	0°♂	
morning max el	7176 Jun 29 23:40	26°♂39'46 46°29'52	desc. node	7178 Dec 02 05:12	3°♂56'41	
	7176 Jul 03 07:54	0°♂		7178 Dec 23 11:59	0°♂	
	7176 Jul 31 09:14	0°♂		7179 Jan 17 01:42	0°♂	
	7176 Aug 26 17:39	0°♂		7179 Feb 10 19:02	0°♂	
	7176 Sep 21 07:53	0°♂		7179 Mar 07 21:58	0°♂	
asc. node	7176 Oct 07 10:36	19°♂11'48	asc. node	7179 Mar 25 05:20	20°♂04'14	
	7176 Oct 16 10:23	0°♂		7179 Apr 03 01:07	0°♂	
	7176 Nov 10 03:41	0°♂	evening max el	7179 Apr 22 16:19	20°♂53'31	46°53'34
	7176 Dec 04 13:57	0°♂		7179 May 02 01:09	0°♂	
morning set	7176 Dec 25 14:30	26°♂01'25	greatest brilliancy	7179 Jun 01 13:30	21°♂34'07	-4.9m
	7176 Dec 28 19:21	0°♂	retrograde	7179 Jun 12 02:20	23°♂38'59	
	7177 Jan 21 21:28	0°♂	evening set	7179 Jun 27 10:46	19°♂02'30	
desc. node	7177 Jan 27 03:01	6°♂31'59	inferior conj	7179 Jul 03 04:37	15°♂35'43	2°53'21
max. Earth dist.	7177 Jan 30 15:42	10°♂56'33 1.71731 AU	minimum elong	7179 Jul 03 10:55	15°♂25'56	2°51'24
			min. Earth dist.	7179 Jul 02 23:35	15°♂43'33	0.27785 AU
superior conj	7177 Feb 02 14:35	14°♂38'07 -0°15'40	morning rise	7179 Jul 09 11:30	11°♂51'43	
minimum elong	7177 Feb 02 10:43	14°♂26'00 0°15'25	desc. node	7179 Jul 14 22:40	9°♂21'16	
behind sun begin	7177 Feb 02 02:54	14°♂01'35	direct	7179 Jul 24 03:58	7°♂39'21	
behind sun end	7177 Feb 02 18:32	14°♂50'26	greatest brilliancy	7179 Aug 03 00:54	9°♂25'36	-4.8m
	7177 Feb 14 21:09	0°♂		7179 Sep 02 17:45	0°♂	
	7177 Mar 10 19:04	0°♂	morning max el	7179 Sep 11 01:35	7°♂41'51	45°48'07
evening rise	7177 Mar 14 19:02	5°♂01'17		7179 Oct 02 23:22	0°♂	
	7177 Apr 03 16:35	0°♂		7179 Oct 30 00:56	0°♂	
	7177 Apr 27 15:58	0°♂	asc. node	7179 Nov 04 22:38	6°♂46'41	
asc. node	7177 May 20 02:46	27°♂52'34		7179 Nov 24 18:29	0°♂	
	7177 May 21 20:02	0°♂		7179 Dec 19 17:41	0°♂	
	7177 Jun 15 07:54	0°♂		7180 Jan 13 05:37	0°♂	
	7177 Jul 10 07:44	0°♂		7180 Feb 06 10:33	0°♂	
	7177 Aug 05 03:41	0°♂	desc. node	7180 Feb 24 15:04	22°♂42'06	
	7177 Sep 01 16:23	0°♂		7180 Mar 01 11:01	0°♂	
desc. node	7177 Sep 08 20:08	7°♂15'29	morning set	7180 Mar 09 10:16	9°♂59'21	
evening max el	7177 Sep 14 00:37	12°♂19'25 45°37'56		7180 Mar 25 08:39	0°♂	
	7177 Oct 04 13:09	0°♂		7180 Apr 18 05:07	0°♂	
greatest brilliancy	7177 Oct 23 02:32	10°♂22'39 -4.7m				

superior conj	7180 Apr 19 10:43	1°♄33'03	-1°27'28	direct	7182 Oct 03 09:06	16°♎12'24	
minimum elong	7180 Apr 19 09:34	1°♄29'27	1°27'32	greatest brilliancy	7182 Oct 13 08:19	18°♎00'32	-4.7m
max. Earth dist.	7180 Apr 20 17:18	3°♄09'12	1.71243 AU		7182 Nov 02 18:55	0°♈	
	7180 May 12 02:24	0°♈		morning max el	7182 Nov 21 07:23	16°♈18'34	45°47'56
evening rise	7180 May 29 22:28	22°♈18'52		asc. node	7182 Dec 02 10:27	27°♈28'17	
	7180 Jun 05 02:23	0°♉			7182 Dec 04 20:37	0°♎	
asc. node	7180 Jun 16 14:37	14°♉18'58			7183 Jan 01 00:37	0°♊	
	7180 Jun 29 06:33	0°♊			7183 Jan 26 13:24	0°♈	
	7180 Jul 23 16:06	0°♎			7183 Feb 20 07:27	0°♌	
	7180 Aug 17 08:47	0°♈			7183 Mar 16 15:28	0°♋	
	7180 Sep 11 11:58	0°♎		desc. node	7183 Mar 24 03:03	9°♋17'25	
desc. node	7180 Oct 06 07:43	28°♎51'14			7183 Apr 09 17:52	0°♐	
	7180 Oct 07 07:49	0°♊			7183 May 03 17:32	0°♉	
	7180 Nov 03 09:10	0°♈		morning set	7183 May 25 15:06	27°♉24'35	
evening max el	7180 Nov 24 20:51	21°♈59'57	46°05'53		7183 May 27 16:50	0°♈	
	7180 Dec 03 10:35	0°♌			7183 Jun 20 17:41	0°♉	
greatest brilliancy	7181 Jan 03 13:29	21°♌02'43	-4.8m				
retrograde	7181 Jan 13 05:56	22°♌47'16		superior conj	7183 Jul 03 17:27	16°♉09'24	-0°27'07
asc. node	7181 Jan 27 08:06	18°♌52'23		minimum elong	7183 Jul 03 23:38	16°♉28'35	0°26'54
evening set	7181 Jan 27 15:31	18°♌42'38		max. Earth dist.	7183 Jul 07 01:00	20°♉16'27	1.72432 AU
inferior conj	7181 Feb 02 23:04	15°♌01'26	1°41'45		7183 Jul 14 21:09	0°♊	
minimum elong	7181 Feb 02 19:11	15°♌07'22	1°40'35	asc. node	7183 Jul 15 02:34	0°♊16'45	
min. Earth dist.	7181 Feb 03 05:02	14°♌52'17	0.27064 AU		7183 Aug 08 03:25	0°♎	
morning rise	7181 Feb 08 22:22	11°♌30'10		evening rise	7183 Aug 10 18:06	3°♎13'19	
direct	7181 Feb 23 17:01	7°♌09'51			7183 Sep 01 12:34	0°♈	
greatest brilliancy	7181 Mar 06 03:48	9°♌13'41	-4.9m		7183 Sep 26 01:20	0°♎	
	7181 Apr 04 18:51	0°♋			7183 Oct 20 19:10	0°♊	
morning max el	7181 Apr 15 07:26	10°♋11'31	46°59'40	desc. node	7183 Nov 03 19:24	16°♊50'19	
	7181 May 03 23:39	0°♐			7183 Nov 14 19:52	0°♈	
desc. node	7181 May 19 01:07	16°♐57'04			7183 Dec 10 05:53	0°♌	
	7181 May 30 07:42	0°♉			7184 Jan 05 07:15	0°♋	
	7181 Jun 24 16:14	0°♈			7184 Feb 01 20:45	0°♐	
	7181 Jul 19 15:12	0°♉		evening max el	7184 Feb 06 17:15	4°♐56'46	46°54'15
	7181 Aug 13 09:55	0°♊		asc. node	7184 Feb 24 19:45	21°♐45'08	
	7181 Sep 07 01:45	0°♎			7184 Mar 06 19:21	0°♉	
asc. node	7181 Sep 09 00:32	2°♎22'39		greatest brilliancy	7184 Mar 18 06:39	5°♉56'10	-4.9m
	7181 Oct 01 14:30	0°♈		retrograde	7184 Mar 28 04:27	7°♉47'26	
morning set	7181 Oct 15 04:24	16°♈40'30		evening set	7184 Apr 15 04:55	1°♉34'00	
	7181 Oct 26 00:07	0°♎		inferior conj	7184 Apr 17 20:06	29°♐57'06	9°09'06
max. Earth dist.	7181 Nov 18 22:09	29°♎32'01	1.72966 AU	minimum elong	7184 Apr 17 18:31	29°♐59'32	9°09'02
	7181 Nov 19 07:12	0°♊		min. Earth dist.	7184 Apr 17 13:33	0°♉07'13	0.27107 AU
					7184 Apr 17 18:13	30°♐♐	
superior conj	7181 Nov 20 17:37	1°♊46'26	1°16'23	morning rise	7184 Apr 20 08:12	28°♐25'02	
minimum elong	7181 Nov 21 01:27	2°♊10'39	1°16'16	direct	7184 May 08 11:24	22°♐10'57	
	7181 Dec 13 12:41	0°♈		greatest brilliancy	7184 May 17 20:38	23°♐50'52	-4.9m
evening rise	7181 Dec 28 15:13	18°♈44'05			7184 May 29 23:19	0°♉	
desc. node	7181 Dec 29 17:08	20°♈04'29		desc. node	7184 Jun 15 12:56	12°♉57'54	
	7182 Jan 06 17:02	0°♌		morning max el	7184 Jun 27 12:08	24°♉15'26	46°31'31
	7182 Jan 30 20:23	0°♋			7184 Jul 03 05:04	0°♈	
	7182 Feb 23 23:15	0°♐			7184 Jul 31 00:42	0°♉	
	7182 Mar 20 03:33	0°♉			7184 Aug 26 06:47	0°♊	
	7182 Apr 13 13:13	0°♈			7184 Sep 20 19:48	0°♎	
asc. node	7182 Apr 21 16:59	9°♈54'58		asc. node	7184 Oct 06 12:32	18°♎43'29	
	7182 May 08 10:33	0°♉			7184 Oct 15 21:34	0°♈	
	7182 Jun 03 06:46	0°♊			7184 Nov 09 14:29	0°♎	
	7182 Jul 01 06:56	0°♎			7184 Dec 04 00:34	0°♊	
evening max el	7182 Jul 02 21:57	1°♎36'38	46°05'43	morning set	7184 Dec 23 05:55	23°♊47'26	
	7182 Aug 09 00:56	0°♈			7184 Dec 28 05:56	0°♈	
greatest brilliancy	7182 Aug 10 06:52	0°♈30'00	-4.8m		7185 Jan 21 08:06	0°♌	
desc. node	7182 Aug 11 10:30	0°♈55'17		desc. node	7185 Jan 26 05:06	6°♌05'18	
retrograde	7182 Aug 21 09:04	2°♈43'51		max. Earth dist.	7185 Jan 28 01:28	8°♌23'52	1.71776 AU
	7182 Sep 02 01:54	30°♐♐					
evening set	7182 Sep 06 14:52	27°♐38'12		superior conj	7185 Jan 31 03:10	12°♌14'08	-0°11'56
inferior conj	7182 Sep 11 20:49	24°♐26'02	-6°37'41	minimum elong	7185 Jan 31 00:13	12°♌04'55	0°11'43
minimum elong	7182 Sep 11 11:00	24°♐41'24	6°35'50	behind sun begin	7185 Jan 30 06:40	11°♌10'04	
min. Earth dist.	7182 Sep 11 07:29	24°♐46'54	0.28980 AU	behind sun end	7185 Jan 31 17:46	12°♌59'47	
morning rise	7182 Sep 16 07:28	21°♐42'38			7185 Feb 14 07:51	0°♋	

	7185 Mar 10 05:50	0°♄		morning max el	7187 Sep 08 16:59	5°♌29'24	45°49'08
evening rise	7185 Mar 12 06:13	2°♄31'50			7187 Oct 02 15:56	0°♎	
	7185 Apr 03 03:27	0°♄			7187 Oct 29 14:26	0°♌	
	7185 Apr 27 03:01	0°♌		asc. node	7187 Nov 04 00:35	6°♌14'25	
asc. node	7185 May 19 04:47	27°♌23'55			7187 Nov 24 06:37	0°♌	
	7185 May 21 07:21	0°♄			7187 Dec 19 05:08	0°♌	
	7185 Jun 14 19:39	0°♌			7188 Jan 12 16:41	0°♄	
	7185 Jul 09 20:17	0°♎			7188 Feb 05 21:27	0°♌	
	7185 Aug 04 17:53	0°♌		desc. node	7188 Feb 23 16:58	22°♌14'09	
	7185 Sep 01 10:46	0°♌			7188 Feb 29 21:50	0°♌	
desc. node	7185 Sep 07 22:07	6°♌30'05		morning set	7188 Mar 06 21:01	7°♌28'33	
evening max el	7185 Sep 11 14:30	10°♌04'57	45°38'04		7188 Mar 24 19:28	0°♄	
	7185 Oct 05 05:24	0°♌					
greatest brilliancy	7185 Oct 20 17:15	8°♌11'55	-4.7m	superior conj	7188 Apr 16 21:34	29°♄02'11	-1°27'12
retrograde	7185 Oct 30 06:51	9°♌51'36		minimum elong	7188 Apr 16 19:19	28°♄55'09	1°27'14
evening set	7185 Nov 16 21:37	4°♌03'36			7188 Apr 17 15:57	0°♄	
inferior conj	7185 Nov 20 15:54	1°♌44'48	-7°45'24	max. Earth dist.	7188 Apr 18 00:20	0°♄26'21	1.71232 AU
minimum elong	7185 Nov 21 00:02	1°♌32'03	7°44'15		7188 May 11 13:14	0°♌	
min. Earth dist.	7185 Nov 21 10:21	1°♌15'55	0.28704 AU	evening rise	7188 May 27 10:09	19°♌51'45	
	7185 Nov 23 11:16	30°♌			7188 Jun 04 13:14	0°♄	
morning rise	7185 Nov 25 02:08	29°♌01'27		asc. node	7188 Jun 15 16:39	13°♄51'30	
direct	7185 Dec 12 01:50	23°♌29'15			7188 Jun 28 17:29	0°♌	
greatest brilliancy	7185 Dec 23 05:04	25°♌45'12	-4.8m		7188 Jul 23 03:16	0°♎	
asc. node	7185 Dec 29 22:18	28°♌59'03			7188 Aug 16 20:24	0°♌	
	7185 Dec 31 15:53	0°♌			7188 Sep 11 00:23	0°♌	
morning max el	7186 Jan 31 02:17	25°♌31'54	46°29'16	desc. node	7188 Oct 05 09:38	28°♌17'15	
	7186 Feb 04 11:50	0°♄			7188 Oct 06 21:45	0°♌	
	7186 Mar 03 21:20	0°♌			7188 Nov 03 02:26	0°♄	
	7186 Mar 29 11:16	0°♌		evening max el	7188 Nov 22 11:56	19°♄45'04	46°04'24
desc. node	7186 Apr 20 15:08	26°♌46'21			7188 Dec 03 15:02	0°♌	
	7186 Apr 23 06:39	0°♄		greatest brilliancy	7189 Jan 01 02:23	18°♌40'47	-4.8m
	7186 May 17 17:11	0°♄		retrograde	7189 Jan 10 19:28	20°♌25'19	
	7186 Jun 11 00:09	0°♌		evening set	7189 Jan 25 04:53	16°♌20'38	
	7186 Jul 05 06:40	0°♄		asc. node	7189 Jan 26 10:01	15°♌40'54	
	7186 Jul 29 14:02	0°♌		inferior conj	7189 Jan 31 12:23	12°♌39'02	1°18'27
morning set	7186 Aug 05 04:44	8°♌09'20		minimum elong	7189 Jan 31 09:23	12°♌43'39	1°17'33
asc. node	7186 Aug 11 14:27	16°♌03'03		min. Earth dist.	7189 Jan 31 19:01	12°♌28'52	0.27095 AU
	7186 Aug 22 22:08	0°♎		morning rise	7189 Feb 06 13:27	9°♌05'27	
				direct	7189 Feb 21 07:29	4°♌47'04	
superior conj	7186 Sep 11 11:12	24°♎05'04	1°05'27	greatest brilliancy	7189 Mar 03 18:07	6°♌51'08	-4.9m
minimum elong	7186 Sep 11 02:01	23°♎36'45	1°05'09		7189 Apr 04 21:49	0°♌	
max. Earth dist.	7186 Sep 11 16:16	24°♎20'40	1.73328 AU	morning max el	7189 Apr 12 22:02	7°♌50'45	46°59'22
	7186 Sep 16 06:26	0°♌			7189 May 03 17:03	0°♄	
	7186 Oct 10 14:55	0°♌		desc. node	7189 May 18 03:12	16°♄18'52	
evening rise	7186 Oct 17 17:17	8°♌44'18			7189 May 29 22:04	0°♄	
	7186 Nov 04 00:10	0°♌			7189 Jun 24 05:08	0°♌	
	7186 Nov 28 10:54	0°♄			7189 Jul 19 03:13	0°♄	
desc. node	7186 Dec 01 07:17	3°♄29'33			7189 Aug 12 21:20	0°♌	
	7186 Dec 22 23:17	0°♌			7189 Sep 06 12:47	0°♎	
	7187 Jan 16 13:34	0°♌		asc. node	7189 Sep 08 02:25	1°♎54'51	
	7187 Feb 10 07:47	0°♄			7189 Oct 01 01:18	0°♌	
	7187 Mar 07 12:11	0°♄		morning set	7189 Oct 12 21:38	14°♌32'58	
asc. node	7187 Mar 24 07:13	19°♄24'20			7189 Oct 25 10:49	0°♌	
	7187 Apr 02 18:24	0°♌		max. Earth dist.	7189 Nov 16 15:46	27°♌25'03	1.72993 AU
evening max el	7187 Apr 20 05:56	18°♌31'14	46°54'47				
	7187 May 02 04:31	0°♄		superior conj	7189 Nov 18 10:24	29°♌36'49	1°17'50
greatest brilliancy	7187 May 30 04:57	19°♄16'07	-4.9m	minimum elong	7189 Nov 18 17:45	29°♌59'34	1°17'46
retrograde	7187 Jun 09 17:13	21°♄20'52			7189 Nov 18 17:54	0°♌	
evening set	7187 Jun 25 03:23	16°♄41'08			7189 Dec 12 23:27	0°♄	
inferior conj	7187 Jun 30 18:59	13°♄17'55	3°14'31	evening rise	7189 Dec 26 05:59	16°♄27'19	
minimum elong	7187 Jul 01 01:58	13°♄07'06	3°12'24	desc. node	7189 Dec 28 19:10	19°♄37'05	
min. Earth dist.	7187 Jun 30 14:36	13°♄24'44	0.27753 AU		7190 Jan 06 03:57	0°♌	
morning rise	7187 Jul 07 00:55	9°♄35'31			7190 Jan 30 07:30	0°♌	
desc. node	7187 Jul 14 00:43	6°♄33'26			7190 Feb 23 10:37	0°♄	
direct	7187 Jul 21 17:38	5°♄21'44			7190 Mar 19 15:19	0°♄	
greatest brilliancy	7187 Jul 31 15:14	7°♄08'53	-4.8m		7190 Apr 13 01:34	0°♌	
	7187 Sep 02 20:07	0°♌		asc. node	7190 Apr 20 18:59	9°♌22'47	






































































































































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	7190 Jun 02 22:22	0°♋			7192 Nov 09 01:41	0°♌
evening max el	7190 Jun 30 14:09	29°♋24'18 46°07'15			7192 Dec 03 11:35	0°♍
	7190 Jul 01 04:40	0°♎	morning set		7192 Dec 20 21:09	21°♍31'46
greatest brilliancy	7190 Aug 07 22:56	28°♎19'08 -4.8m			7192 Dec 27 16:54	0°♎
desc. node	7190 Aug 10 12:26	29°♎12'06			7193 Jan 20 19:06	0°♏
	7190 Aug 13 16:08	0°♐	desc. node		7193 Jan 25 06:57	5°♏36'43
retrograde	7190 Aug 19 01:13	0°♐32'52	max. Earth dist.		7193 Jan 25 14:02	5°♏58'50 1.71821 AU
	7190 Aug 24 06:53	30°♑♎				
evening set	7190 Sep 04 04:10	25°♑31'50	superior conj		7193 Jan 28 15:41	9°♏48'53 -0°08'11
min. Earth dist.	7190 Sep 08 22:56	22°♑37'18 0.28945 AU	minimum elong		7193 Jan 28 13:40	9°♏42'36 0°08'00
inferior conj	7190 Sep 09 12:51	22°♑15'26 -6°24'45	behind sun begin		7193 Jan 27 15:38	8°♏33'45
minimum elong	7190 Sep 09 02:58	22°♑30'58 6°22'47	behind sun end		7193 Jan 29 11:42	10°♏51'26
morning rise	7190 Sep 14 02:07	19°♑28'07			7193 Feb 13 18:54	0°♐
direct	7190 Oct 01 01:18	14°♑02'38	evening rise		7193 Mar 09 17:34	0°♑01'53
greatest brilliancy	7190 Oct 10 22:55	15°♑49'19 -4.7m			7193 Mar 09 16:58	0°♑
	7190 Nov 03 04:30	0°♒			7193 Apr 02 14:41	0°♒
morning max el	7190 Nov 18 21:58	14°♒04'29 45°47'00			7193 Apr 26 14:22	0°♓
asc. node	7190 Dec 01 12:35	26°♒45'43	asc. node		7193 May 18 06:50	26°♓54'32
	7190 Dec 04 14:30	0°♓			7193 May 20 18:58	0°♔
	7190 Dec 31 14:52	0°♌			7193 Jun 14 07:42	0°♕
	7191 Jan 26 02:09	0°♍			7193 Jul 09 09:11	0°♎
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	7191 Mar 16 03:02	0°♐			7193 Sep 01 06:11	0°♑
desc. node	7191 Mar 23 05:01	8°♐47'57	desc. node		7193 Sep 07 00:03	5°♑42'32
	7191 Apr 09 05:09	0°♑	evening max el		7193 Sep 09 04:39	7°♑49'46 45°38'05
	7191 May 03 04:36	0°♒			7193 Oct 06 04:35	0°♌
morning set	7191 May 23 03:53	25°♒00'12	greatest brilliancy		7193 Oct 18 07:14	5°♌58'38 -4.7m
	7191 May 27 03:46	0°♓	retrograde		7193 Oct 27 22:10	7°♌39'42
	7191 Jun 20 04:33	0°♔	evening set		7193 Nov 14 15:20	1°♌47'24
					7193 Nov 17 13:30	30°♌♌
superior conj	7191 Jul 01 07:48	13°♔51'10 -0°30'32	inferior conj		7193 Nov 18 07:30	29°♌31'53 -7°53'50
minimum elong	7191 Jul 01 14:41	14°♔12'32 0°30'17	minimum elong		7193 Nov 18 15:09	29°♌19'57 7°52'50
max. Earth dist.	7191 Jul 04 18:32	18°♔08'07 1.72387 AU	min. Earth dist.		7193 Nov 19 01:15	29°♌04'09 0.28758 AU
asc. node	7191 Jul 14 04:29	29°♔49'07	morning rise		7193 Nov 22 14:38	26°♌53'18
	7191 Jul 14 08:00	0°♕	direct		7193 Dec 09 17:35	21°♌15'36
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evening rise	7191 Aug 08 10:42	1°♎02'56	asc. node		7193 Dec 29 00:11	27°♌34'30
	7191 Aug 31 23:33	0°♏			7194 Jan 01 19:28	0°♌
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	7191 Oct 20 06:50	0°♍			7194 Feb 04 08:08	0°♎
desc. node	7191 Nov 02 21:29	16°♍20'26			7194 Mar 03 12:49	0°♏
	7191 Nov 14 08:20	0°♐			7194 Mar 29 00:50	0°♐
	7191 Dec 09 19:37	0°♑	desc. node		7194 Apr 19 17:08	26°♐13'57
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	7192 Feb 01 18:31	0°♓			7194 May 17 05:08	0°♒
evening max el	7192 Feb 04 06:09	2°♓30'47 46°53'04			7194 Jun 10 11:40	0°♓
asc. node	7192 Feb 23 21:42	20°♓35'00			7194 Jul 04 17:52	0°♔
	7192 Mar 08 08:12	0°♕			7194 Jul 29 00:59	0°♕
greatest brilliancy	7192 Mar 15 20:29	3°♕30'43 -4.9m	morning set		7194 Aug 02 21:10	5°♕58'22
retrograde	7192 Mar 25 16:59	5°♕21'06	asc. node		7194 Aug 10 16:21	15°♕35'27
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evening set	7192 Apr 12 15:48	29°♑11'31				
inferior conj	7192 Apr 15 09:05	27°♑31'28 9°07'10	superior conj		7194 Sep 09 04:54	21°♑58'31 1°03'19
minimum elong	7192 Apr 15 06:31	27°♑35'26 9°07'02	minimum elong		7194 Sep 08 19:35	21°♑29'52 1°02'59
min. Earth dist.	7192 Apr 15 02:29	27°♑41'40 0.27085 AU	max. Earth dist.		7194 Sep 09 12:22	22°♑21'33 1.73323 AU
morning rise	7192 Apr 17 21:19	25°♑59'09			7194 Sep 15 17:12	0°♏
direct	7192 May 05 23:39	19°♑45'31			7194 Oct 10 01:45	0°♑
greatest brilliancy	7192 May 15 09:49	21°♑25'49 -4.9m	evening rise		7194 Oct 15 11:02	6°♑37'45
	7192 May 31 01:06	0°♒			7194 Nov 03 11:13	0°♌
desc. node	7192 Jun 14 14:59	11°♒57'00			7194 Nov 27 22:13	0°♍
morning max el	7192 Jun 25 00:19	21°♒49'44 46°33'06	desc. node		7194 Nov 30 09:15	3°♒00'45
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	7192 Aug 25 20:10	0°♕			7195 Feb 09 21:00	0°♑
	7192 Sep 20 08:03	0°♎			7195 Mar 07 02:56	0°♒
asc. node	7192 Oct 05 14:32	18°♎14'08	asc. node		7195 Mar 23 09:16	18°♒43'30

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retrograde	7195 Jun 07 08:34	19°♂01'56			7197 Nov 18 04:36	0°♂	
evening set	7195 Jun 22 20:15	14°♂18'54			7197 Dec 12 10:15	0°♂	
inferior conj	7195 Jun 28 09:23	10°♂59'19	3°35'29	evening rise	7197 Dec 23 21:01	14°♂11'15	
minimum elong	7195 Jun 28 17:01	10°♂47'30	3°33'11	desc. node	7197 Dec 27 21:06	19°♂09'07	
min. Earth dist.	7195 Jun 28 05:17	11°♂05'40	0.27719 AU		7198 Jan 05 14:57	0°♂	
morning rise	7195 Jul 04 14:12	7°♂18'56			7198 Jan 29 18:45	0°♂	
desc. node	7195 Jul 13 02:34	3°♂50'28			7198 Feb 22 22:11	0°♂	
direct	7195 Jul 19 07:55	3°♂03'33			7198 Mar 19 03:15	0°♂	
greatest brilliancy	7195 Jul 29 04:58	4°♂50'55	-4.8m		7198 Apr 12 14:06	0°♂	
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asc. node	7195 Nov 03 02:39	5°♂41'59			7198 Jul 01 03:15	0°♂	
	7195 Nov 23 19:00	0°♂		greatest brilliancy	7198 Aug 05 15:42	26°♂09'19	-4.8m
	7195 Dec 18 16:53	0°♂		desc. node	7198 Aug 09 14:29	27°♂25'44	
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morning set	7196 Mar 04 07:41	4°♂56'44		minimum elong	7198 Sep 06 19:10	20°♂21'12	6°09'10
	7196 Mar 24 06:33	0°♂		morning rise	7198 Sep 11 20:56	17°♂14'18	
				direct	7198 Sep 28 17:03	11°♂53'34	
superior conj	7196 Apr 14 08:16	26°♂30'05	-1°26'46	greatest brilliancy	7198 Oct 08 14:14	13°♂39'25	-4.7m
minimum elong	7196 Apr 14 04:56	26°♂19'36	1°26'46		7198 Nov 03 11:11	0°♂	
max. Earth dist.	7196 Apr 15 09:07	27°♂48'15	1.71218 AU	morning max el	7198 Nov 16 12:02	11°♂49'40	45°46'15
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	7196 May 11 00:17	0°♂			7198 Dec 04 07:47	0°♂	
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asc. node	7196 Jun 14 18:35	13°♂22'57			7199 Feb 19 07:20	0°♂	
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	7196 Aug 16 08:11	0°♂			7199 Apr 08 16:26	0°♂	
	7196 Sep 10 12:59	0°♂			7199 May 02 15:42	0°♂	
desc. node	7196 Oct 04 11:44	27°♂43'15		morning set	7199 May 20 16:04	22°♂33'52	
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evening max el	7196 Nov 20 02:54	17°♂29'22	46°02'36				
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greatest brilliancy	7196 Dec 29 15:44	16°♂18'26	-4.8m	minimum elong	7199 Jun 29 05:23	11°♂55'36	0°33'38
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evening set	7197 Jan 22 18:23	13°♂57'18		asc. node	7199 Jul 13 06:24	29°♂21'46	
asc. node	7197 Jan 25 11:59	12°♂25'05			7199 Jul 13 18:45	0°♂	
inferior conj	7197 Jan 29 01:36	10°♂15'34	0°54'52	evening rise	7199 Aug 06 03:10	28°♂52'33	
minimum elong	7197 Jan 28 23:29	10°♂18'48	0°54'15		7199 Aug 07 01:03	0°♂	
min. Earth dist.	7197 Jan 29 09:14	10°♂03'51	0.27131 AU		7199 Aug 31 10:24	0°♂	
morning rise	7197 Feb 04 04:12	6°♂39'38			7199 Sep 24 23:38	0°♂	
direct	7197 Feb 18 21:34	2°♂23'11			7199 Oct 19 18:22	0°♂	
greatest brilliancy	7197 Mar 01 08:38	4°♂27'29	-4.9m	desc. node	7199 Nov 01 23:29	15°♂50'50	
	7197 Apr 04 23:42	0°♂			7199 Nov 13 20:37	0°♂	
morning max el	7197 Apr 10 11:35	5°♂26'24	46°59'10		7199 Dec 09 09:13	0°♂	
	7197 May 03 10:20	0°♂			7200 Jan 04 15:22	0°♂	
desc. node	7197 May 17 05:15	15°♂40'23			7200 Feb 01 16:50	0°♂	
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	7197 Jun 23 18:04	0°♂		asc. node	7200 Feb 22 23:43	19°♂23'25	
	7197 Jul 18 15:17	0°♂			7200 Mar 10 17:10	0°♂	
	7197 Aug 12 08:49	0°♂		greatest brilliancy	7200 Mar 13 09:51	1°♂04'42	-4.9m
	7197 Sep 05 23:52	0°♂		retrograde	7200 Mar 23 05:26	2°♂54'42	
asc. node	7197 Sep 07 04:30	1°♂27'26			7200 Apr 04 05:37	30°♂	
	7197 Sep 30 12:09	0°♂		evening set	7200 Apr 10 01:48	26°♂49'31	
morning set	7197 Oct 10 15:17	12°♂26'39		inferior conj	7200 Apr 12 21:53	25°♂05'28	9°03'59
	7197 Oct 24 21:31	0°♂		minimum elong	7200 Apr 12 18:21	25°♂10'55	9°03'46




































































































































min. Earth dist.	7200 Apr 12 15:17	25° Υ 15'39	0.27071 AU	max. Earth dist.	7202 Sep 07 09:30	20° η 26'30	1.73311 AU
morning rise	7200 Apr 15 10:56	23° Υ 31'58			7202 Sep 15 03:40	0° $\underline{\text{A}}$	
direct	7200 May 03 11:40	17° Υ 19'22			7202 Oct 09 12:16	0° \mathbb{M}	
greatest brilliancy	7200 May 12 23:09	19° Υ 00'39	-4.9m	evening rise	7202 Oct 13 04:40	4° \mathbb{M} 31'58	
	7200 May 31 20:09	0° B			7202 Nov 02 21:54	0° Z	
desc. node	7200 Jun 13 16:52	10° B 57'07			7202 Nov 27 09:12	0° Z	
morning max el	7200 Jun 22 13:07	19° B 25'26	46°34'49	desc. node	7202 Nov 29 11:11	2° Z 32'56	
	7200 Jul 02 21:40	0° \mathbb{I}			7202 Dec 21 22:23	0° \approx	
	7200 Jul 30 07:21	0° E			7203 Jan 15 13:51	0° H	
	7200 Aug 25 09:14	0° Ω			7203 Feb 09 09:50	0° Υ	
	7200 Sep 19 20:00	0° η			7203 Mar 06 17:21	0° B	
asc. node	7200 Oct 04 16:32	17° η 45'39		asc. node	7203 Mar 22 11:19	18° B 03'53	
	7200 Oct 14 20:27	0° $\underline{\text{A}}$			7203 Apr 02 06:20	0° \mathbb{I}	
	7200 Nov 08 12:35	0° \mathbb{M}		evening max el	7203 Apr 15 11:47	13° \mathbb{I} 53'02	46°57'02
	7200 Dec 02 22:18	0° Z			7203 May 02 17:14	0° E	
morning set	7200 Dec 18 13:00	19° Z 19'01		greatest brilliancy	7203 May 25 11:05	14° E 39'01	-4.9m
	7200 Dec 27 03:33	0° Z		retrograde	7203 Jun 04 23:54	16° E 43'54	
	7201 Jan 20 05:45	0° \approx		evening set	7203 Jun 20 13:15	11° E 57'36	
max. Earth dist.	7201 Jan 23 05:45	3° \approx 44'44	1.71864 AU	inferior conj	7203 Jun 25 23:44	8° E 41'32	3°56'06
desc. node	7201 Jan 24 09:01	5° \approx 09'50		minimum elong	7203 Jun 26 07:58	8° E 28'48	3°53'39
				min. Earth dist.	7203 Jun 25 19:43	8° E 47'44	0.27691 AU
superior conj	7201 Jan 26 04:50	7° \approx 26'41	-0°04'27	morning rise	7203 Jul 02 03:11	5° E 03'22	
minimum elong	7201 Jan 26 03:44	7° \approx 23'15	0°04'20	desc. node	7203 Jul 12 04:41	1° E 13'33	
behind sun begin	7201 Jan 25 03:29	6° \approx 07'30		direct	7203 Jul 16 22:32	0° E 46'21	
behind sun end	7201 Jan 27 03:59	8° \approx 39'01		greatest brilliancy	7203 Jul 26 18:15	2° E 33'05	-4.8m
	7201 Feb 13 05:37	0° H			7203 Sep 02 20:54	0° Ω	
evening rise	7201 Mar 07 05:26	27° H 34'40		morning max el	7203 Sep 04 00:22	1° Ω 05'35	45°51'03
	7201 Mar 09 03:46	0° Υ			7203 Oct 02 00:14	0° η	
	7201 Apr 02 01:37	0° B			7203 Oct 28 17:16	0° $\underline{\text{A}}$	
	7201 Apr 26 01:31	0° \mathbb{I}		asc. node	7203 Nov 02 04:34	5° $\underline{\text{A}}$ 10'09	
asc. node	7201 May 17 08:43	26° \mathbb{I} 25'09			7203 Nov 23 06:58	0° \mathbb{M}	
	7201 May 20 06:24	0° E			7203 Dec 18 04:13	0° Z	
	7201 Jun 13 19:37	0° Ω			7204 Jan 11 15:06	0° Z	
	7201 Jul 08 21:59	0° η			7204 Feb 04 19:30	0° \approx	
	7201 Aug 03 23:17	0° $\underline{\text{A}}$		desc. node	7204 Feb 21 21:01	21° \approx 18'12	
	7201 Sep 01 01:52	0° \mathbb{M}			7204 Feb 28 19:43	0° H	
desc. node	7201 Sep 06 02:09	4° \mathbb{M} 55'31		morning set	7204 Mar 01 18:41	2° H 27'09	
evening max el	7201 Sep 06 19:35	5° \mathbb{M} 37'30	45°38'22		7204 Mar 23 17:15	0° Υ	
	7201 Oct 07 12:03	0° Z					
greatest brilliancy	7201 Oct 15 20:55	3° Z 46'29	-4.7m	superior conj	7204 Apr 11 19:18	24° Υ 00'18	-1°26'08
retrograde	7201 Oct 25 14:06	5° Z 29'18		minimum elong	7204 Apr 11 14:55	23° Υ 46'30	1°26'08
	7201 Nov 11 14:47	30° R \mathbb{M}		max. Earth dist.	7204 Apr 12 17:39	25° Υ 10'35	1.71202 AU
evening set	7201 Nov 12 09:07	29° \mathbb{M} 32'54			7204 Apr 16 13:41	0° B	
inferior conj	7201 Nov 15 23:15	27° \mathbb{M} 20'25	-8°01'35		7204 May 10 10:56	0° \mathbb{I}	
minimum elong	7201 Nov 16 06:21	27° \mathbb{M} 09'19	8°00'43	evening rise	7204 May 22 09:40	14° \mathbb{I} 57'28	
min. Earth dist.	7201 Nov 16 15:55	26° \mathbb{M} 54'23	0.28805 AU		7204 Jun 03 10:59	0° E	
morning rise	7201 Nov 20 03:21	24° \mathbb{M} 46'32		asc. node	7204 Jun 13 20:34	12° E 55'47	
direct	7201 Dec 07 09:52	19° \mathbb{M} 03'35			7204 Jun 27 15:27	0° Ω	
greatest brilliancy	7201 Dec 18 12:36	21° \mathbb{M} 19'25	-4.8m		7204 Jul 22 01:42	0° η	
asc. node	7201 Dec 28 02:10	26° \mathbb{M} 14'13			7204 Aug 15 19:44	0° $\underline{\text{A}}$	
	7202 Jan 02 14:51	0° Z			7204 Sep 10 01:24	0° \mathbb{M}	
morning max el	7202 Jan 26 09:57	21° Z 02'05	46°26'14	desc. node	7204 Oct 03 13:42	27° \mathbb{M} 09'24	
	7202 Feb 04 03:19	0° Z			7204 Oct 06 02:03	0° Z	
	7202 Mar 03 03:35	0° \approx			7204 Nov 02 14:16	0° Z	
	7202 Mar 28 13:49	0° H		evening max el	7204 Nov 17 17:15	15° Z 13'08	46°00'57
desc. node	7202 Apr 18 19:09	25° H 42'59			7204 Dec 04 06:52	0° \approx	
	7202 Apr 22 07:16	0° Υ		greatest brilliancy	7204 Dec 27 05:47	13° \approx 58'14	-4.8m
	7202 May 16 16:39	0° B		retrograde	7205 Jan 05 21:04	15° \approx 40'20	
	7202 Jun 09 22:50	0° \mathbb{I}		evening set	7205 Jan 20 08:12	11° \approx 35'09	
	7202 Jul 04 04:46	0° E		asc. node	7205 Jan 24 14:05	9° \approx 08'41	
	7202 Jul 28 11:40	0° Ω		inferior conj	7205 Jan 26 14:59	7° \approx 53'48	0°31'20
morning set	7202 Jul 31 13:14	3° Ω 46'59		minimum elong	7205 Jan 26 13:46	7° \approx 55'39	0°31'02
asc. node	7202 Aug 09 18:27	15° Ω 09'15		min. Earth dist.	7205 Jan 26 23:54	7° \approx 40'04	0.27166 AU
	7202 Aug 21 19:27	0° η		morning rise	7205 Feb 01 18:51	4° \approx 15'35	
				direct	7205 Feb 16 11:16	0° \approx 00'46	
superior conj	7202 Sep 06 22:12	19° η 51'41	1°01'03	greatest brilliancy	7205 Feb 26 23:44	2° \approx 05'51	-4.9m
minimum elong	7202 Sep 06 12:51	19° η 22'52	1°00'43		7205 Apr 04 23:52	0° H	






















































































































morning max el	7205 Apr 08 00:35	3° H 01'41	46°58'59		7207 Dec 08 23:02	0° \approx	
	7205 May 03 02:52	0° Υ			7208 Jan 04 07:50	0° H	
desc. node	7205 May 16 07:06	15° Υ 02'49		evening max el	7208 Jan 30 06:57	27° H 37'42	46°50'25
	7205 May 29 02:18	0° B			7208 Feb 01 16:15	0° Υ	
	7205 Jun 23 06:32	0° II		asc. node	7208 Feb 22 01:44	18° Υ 09'28	
	7205 Jul 18 02:55	0° E		greatest brilliancy	7208 Mar 10 22:43	28° Υ 37'55	-4.9m
	7205 Aug 11 19:56	0° Ω			7208 Mar 15 21:12	0° B	
	7205 Sep 05 10:39	0° M		retrograde	7208 Mar 20 18:22	0° B 28'21	
asc. node	7205 Sep 06 06:26	1° M 00'26			7208 Mar 25 13:14	30° R Υ	
	7205 Sep 29 22:45	0° $\underline{\text{A}}$		evening set	7208 Apr 07 11:20	24° Υ 27'56	
morning set	7205 Oct 08 08:41	10° $\underline{\text{A}}$ 20'11		inferior conj	7208 Apr 10 10:40	22° Υ 39'16	8°59'44
	7205 Oct 24 08:02	0° M		minimum elong	7208 Apr 10 06:12	22° Υ 46'08	8°59'25
max. Earth dist.	7205 Nov 12 01:23	23° M 06'48	1.73052 AU	min. Earth dist.	7208 Apr 10 03:46	22° Υ 49'53	0.27056 AU
				morning rise	7208 Apr 13 01:05	21° Υ 03'54	
superior conj	7205 Nov 13 20:44	25° M 20'41	1°20'23	direct	7208 May 01 00:03	14° Υ 53'02	
minimum elong	7205 Nov 14 03:00	25° M 40'03	1°20'21	greatest brilliancy	7208 May 10 12:06	16° Υ 35'02	-4.9m
	7205 Nov 17 15:07	0° A			7208 Jun 01 10:24	0° B	
	7205 Dec 11 20:52	0° B		desc. node	7208 Jun 12 18:58	9° B 59'05	
evening rise	7205 Dec 21 11:53	11° B 55'28		morning max el	7208 Jun 20 02:57	17° B 03'33	46°36'28
desc. node	7205 Dec 26 23:06	18° B 42'06			7208 Jul 02 17:05	0° II	
	7206 Jan 05 01:44	0° \approx			7208 Jul 29 22:22	0° E	
	7206 Jan 29 05:47	0° H			7208 Aug 24 22:18	0° Ω	
	7206 Feb 22 09:31	0° Υ			7208 Sep 19 07:58	0° M	
	7206 Mar 18 15:00	0° B		asc. node	7208 Oct 03 18:28	17° M 16'44	
	7206 Apr 12 02:28	0° II			7208 Oct 14 07:47	0° $\underline{\text{A}}$	
asc. node	7206 Apr 18 22:55	8° II 17'49			7208 Nov 07 23:34	0° M	
	7206 May 07 03:04	0° E			7208 Dec 02 09:09	0° A	
	7206 Jun 02 06:10	0° Ω		morning set	7208 Dec 16 04:49	17° A 05'42	
evening max el	7206 Jun 25 20:03	24° Ω 53'56	46°10'38		7208 Dec 26 14:23	0° B	
	7206 Jul 01 02:29	0° M			7209 Jan 19 16:38	0° \approx	
greatest brilliancy	7206 Aug 03 08:15	23° M 59'47	-4.8m	max. Earth dist.	7209 Jan 20 20:53	1° \approx 28'06	1.71908 AU
desc. node	7206 Aug 08 16:30	25° M 36'05		desc. node	7209 Jan 23 11:04	4° \approx 42'13	
retrograde	7206 Aug 14 09:04	26° M 12'56					
evening set	7206 Aug 30 07:22	21° M 20'10		superior conj	7209 Jan 23 17:41	5° \approx 02'53	-0°00'41
inferior conj	7206 Sep 04 21:18	17° M 56'23	-5°57'04	minimum elong	7209 Jan 23 17:31	5° \approx 02'21	0°00'37
minimum elong	7206 Sep 04 11:24	18° M 11'57	5°54'57	behind sun begin	7209 Jan 22 16:41	3° \approx 44'49	
min. Earth dist.	7206 Sep 04 07:07	18° M 18'40	0.28873 AU	behind sun end	7209 Jan 24 18:20	6° \approx 19'54	
morning rise	7206 Sep 09 15:44	15° M 01'10			7209 Feb 12 16:34	0° H	
direct	7206 Sep 26 08:25	9° M 44'46		evening rise	7209 Mar 04 16:57	25° H 05'38	
greatest brilliancy	7206 Oct 06 06:07	11° M 30'32	-4.7m		7209 Mar 08 14:48	0° Υ	
	7206 Nov 03 15:38	0° $\underline{\text{A}}$			7209 Apr 01 12:47	0° B	
morning max el	7206 Nov 14 02:19	9° $\underline{\text{A}}$ 35'31	45°45'30		7209 Apr 25 12:53	0° II	
asc. node	7206 Nov 29 16:27	25° $\underline{\text{A}}$ 22'29		asc. node	7209 May 16 10:44	25° II 55'38	
	7206 Dec 04 00:39	0° M			7209 May 19 18:03	0° E	
	7206 Dec 30 18:33	0° A			7209 Jun 13 07:46	0° Ω	
	7207 Jan 25 03:08	0° B			7209 Jul 08 11:05	0° M	
	7207 Feb 18 19:06	0° \approx			7209 Aug 03 14:23	0° $\underline{\text{A}}$	
	7207 Mar 15 01:57	0° H			7209 Aug 31 22:26	0° M	
desc. node	7207 Mar 21 09:00	7° H 49'37		evening max el	7209 Sep 04 11:32	3° M 27'06	45°38'43
	7207 Apr 08 03:35	0° Υ		desc. node	7209 Sep 05 04:07	4° M 06'50	
	7207 May 02 02:40	0° B			7209 Oct 09 11:28	0° A	
morning set	7207 May 18 04:05	20° B 07'11		greatest brilliancy	7209 Oct 13 10:33	1° A 34'02	-4.7m
	7207 May 26 01:32	0° II		retrograde	7209 Oct 23 06:05	3° A 18'25	
	7207 Jun 19 02:07	0° E			7209 Nov 05 05:36	30° R M	
				evening set	7209 Nov 10 02:45	27° M 18'32	
superior conj	7207 Jun 26 11:55	9° E 13'27	-0°37'13	inferior conj	7209 Nov 13 15:02	25° M 08'37	-8°08'28
minimum elong	7207 Jun 26 20:06	9° E 38'54	0°36'56	minimum elong	7209 Nov 13 21:34	24° M 58'25	8°07'45
max. Earth dist.	7207 Jun 29 23:43	13° E 33'55	1.72283 AU	min. Earth dist.	7209 Nov 14 06:21	24° M 44'42	0.28851 AU
asc. node	7207 Jul 12 08:30	28° E 55'09		morning rise	7209 Nov 17 16:12	22° M 39'09	
	7207 Jul 13 05:25	0° Ω		direct	7209 Dec 05 02:32	16° M 51'28	
evening rise	7207 Aug 03 19:46	26° Ω 42'45		greatest brilliancy	7209 Dec 16 03:28	19° M 05'52	-4.8m
	7207 Aug 06 11:43	0° M		asc. node	7209 Dec 27 04:16	24° M 56'03	
	7207 Aug 30 21:11	0° $\underline{\text{A}}$			7210 Jan 03 05:30	0° A	
	7207 Sep 24 10:42	0° M		morning max el	7210 Jan 24 02:15	18° A 48'24	46°24'28
	7207 Oct 19 05:57	0° A			7210 Feb 03 22:19	0° B	
desc. node	7207 Nov 01 01:23	15° A 20'50			7210 Mar 02 18:33	0° \approx	
	7207 Nov 13 09:02	0° B			7210 Mar 28 03:07	0° H	

desc. node	7210 Apr 17 21:05	25° H 10'41			7212 Nov 02 09:08	0° Z	
	7210 Apr 21 19:40	0° Y		evening max el	7212 Nov 15 06:57	12° Z 54'24	45°59'23
	7210 May 16 04:30	0° B			7212 Dec 04 19:27	0° A	
	7210 Jun 09 10:18	0° II		greatest brilliancy	7212 Dec 24 20:17	11° A 38'04	-4.8m
	7210 Jul 03 15:55	0° D		retrograde	7213 Jan 03 09:37	13° A 18'41	
	7210 Jul 27 22:36	0° Q		evening set	7213 Jan 17 22:25	9° A 12'26	
morning set	7210 Jul 29 05:16	1° Q 34'37		asc. node	7213 Jan 23 15:58	5° A 51'28	
asc. node	7210 Aug 08 20:22	14° Q 41'34		inferior conj	7213 Jan 24 04:36	5° A 32'00	0°08'06
	7210 Aug 21 06:17	0° P		minimum elong	7213 Jan 24 04:17	5° A 32'29	0°08'04
				transit middle	7213 Jan 24 04:17	5° A 32'29	0°08'04
superior conj	7210 Sep 04 15:33	17° P 43'58	0°58'43	transit begin	7213 Jan 24 00:44	5° A 37'57	
minimum elong	7210 Sep 04 06:13	17° P 15'12	0°58'21	transit end	7213 Jan 24 07:51	5° A 27'00	
max. Earth dist.	7210 Sep 05 07:05	18° P 31'49	1.73296 AU	min. Earth dist.	7213 Jan 24 15:02	5° A 15'55	0.27205 AU
	7210 Sep 14 14:27	0° D		morning rise	7213 Jan 30 09:32	1° A 51'50	
	7210 Oct 08 23:07	0° M			7213 Feb 03 05:19	30° R Z	
evening rise	7210 Oct 10 22:27	2° M 25'38		direct	7213 Feb 14 00:49	27° Z 38'05	
	7210 Nov 02 08:54	0° X		greatest brilliancy	7213 Feb 24 15:33	29° Z 44'45	-4.9m
	7210 Nov 26 20:29	0° Z			7213 Feb 25 07:10	0° A	
desc. node	7210 Nov 28 13:17	2° Z 04'45			7213 Apr 04 23:17	0° H	
	7210 Dec 21 10:07	0° A		morning max el	7213 Apr 05 13:27	0° H 35'40	46°58'37
	7211 Jan 15 02:14	0° H			7213 May 02 19:30	0° Y	
	7211 Feb 08 23:13	0° Y		desc. node	7213 May 15 09:13	14° Y 25'03	
	7211 Mar 06 08:27	0° B			7213 May 28 16:26	0° B	
asc. node	7211 Mar 21 13:12	17° B 21'44			7213 Jun 22 19:23	0° II	
	7211 Apr 02 01:18	0° II			7213 Jul 17 14:59	0° D	
evening max el	7211 Apr 13 03:07	11° II 33'52	46°58'00		7213 Aug 11 07:27	0° Q	
	7211 May 03 03:58	0° D			7213 Sep 04 21:49	0° P	
greatest brilliancy	7211 May 23 02:37	12° D 19'46	-4.9m	asc. node	7213 Sep 05 08:23	0° P 32'19	
retrograde	7211 Jun 02 14:54	14° D 23'37			7213 Sep 29 09:41	0° D	
evening set	7211 Jun 18 06:15	9° D 34'15		morning set	7213 Oct 06 01:59	8° D 12'25	
inferior conj	7211 Jun 23 13:55	6° D 21'51	4°16'23		7213 Oct 23 18:52	0° M	
minimum elong	7211 Jun 23 22:41	6° D 08'15	4°13'52	max. Earth dist.	7213 Nov 09 18:42	20° M 58'35	1.73082 AU
min. Earth dist.	7211 Jun 23 10:08	6° D 27'42	0.27657 AU				
morning rise	7211 Jun 29 15:41	2° D 45'59		superior conj	7213 Nov 11 13:57	23° M 12'08	1°21'28
	7211 Jul 05 18:27	30° R II		minimum elong	7213 Nov 11 19:38	23° M 29'44	1°21'28
desc. node	7211 Jul 11 06:41	28° II 40'08			7213 Nov 17 01:57	0° X	
direct	7211 Jul 14 12:48	28° II 27'25			7213 Dec 11 07:49	0° Z	
	7211 Jul 23 15:31	0° D		evening rise	7213 Dec 19 03:06	9° Z 39'51	
greatest brilliancy	7211 Jul 24 07:15	0° D 13'12	-4.8m	desc. node	7213 Dec 26 01:08	18° Z 14'08	
morning max el	7211 Sep 01 15:06	28° D 50'24	45°52'01		7214 Jan 04 12:51	0° A	
	7211 Sep 02 19:58	0° Q			7214 Jan 28 17:08	0° H	
	7211 Oct 01 16:13	0° P			7214 Feb 21 21:09	0° Y	
	7211 Oct 28 06:44	0° D			7214 Mar 18 03:02	0° B	
asc. node	7211 Nov 01 06:32	4° D 37'31			7214 Apr 11 15:11	0° II	
	7211 Nov 22 19:14	0° M		asc. node	7214 Apr 18 00:58	7° II 44'54	
	7211 Dec 17 15:52	0° X			7214 May 06 17:01	0° D	
	7212 Jan 11 02:26	0° Z			7214 Jun 01 22:47	0° Q	
	7212 Feb 04 06:40	0° A		evening max el	7214 Jun 23 10:30	22° Q 36'29	46°12'20
desc. node	7212 Feb 20 22:56	20° A 49'22			7214 Jul 01 03:26	0° P	
morning set	7212 Feb 28 05:44	29° A 56'34		greatest brilliancy	7214 Aug 01 00:22	21° P 48'09	-4.8m
	7212 Feb 28 06:50	0° H		desc. node	7214 Aug 07 18:26	23° P 40'45	
	7212 Mar 23 04:22	0° Y		retrograde	7214 Aug 12 01:09	24° P 01'55	
				evening set	7214 Aug 27 20:57	19° P 12'34	
superior conj	7212 Apr 09 06:03	21° Y 28'10	-1°25'19	min. Earth dist.	7214 Sep 01 23:09	16° P 08'02	0.28836 AU
minimum elong	7212 Apr 09 00:40	21° Y 11'14	1°25'18	inferior conj	7214 Sep 02 13:25	15° P 45'40	-5°42'23
max. Earth dist.	7212 Apr 09 22:41	22° Y 20'30	1.71194 AU	minimum elong	7214 Sep 02 03:34	16° P 01'06	5°40'11
	7212 Apr 16 00:48	0° B		morning rise	7214 Sep 07 10:27	12° P 46'46	
	7212 May 09 22:04	0° II		direct	7214 Sep 23 23:32	7° P 34'26	
evening rise	7212 May 19 20:49	12° II 27'28		greatest brilliancy	7214 Oct 03 22:01	9° P 20'38	-4.7m
	7212 Jun 02 22:08	0° D			7214 Nov 03 18:42	0° D	
asc. node	7212 Jun 12 22:37	12° D 27'25		morning max el	7214 Nov 11 17:19	7° D 22'30	45°44'53
	7212 Jun 27 02:43	0° Q		asc. node	7214 Nov 28 18:34	24° D 41'30	
	7212 Jul 21 13:12	0° P			7214 Dec 03 17:25	0° M	
	7212 Aug 15 07:43	0° D			7214 Dec 30 08:23	0° X	
	7212 Sep 09 14:17	0° M			7215 Jan 24 15:42	0° Z	
desc. node	7212 Oct 02 15:38	26° M 34'05			7215 Feb 18 07:02	0° A	
	7212 Oct 05 16:44	0° X			7215 Mar 14 13:29	0° H	

desc. node	7215 Mar 20 11:00	7°  20'07	greatest brilliancy	7217 Oct 11 00:44	29°  22'36	-4.7m
	7215 Apr 07 14:52	0°  Y		7217 Oct 13 01:02	0°  X	
	7215 May 01 13:46	0°  B	retrograde	7217 Oct 20 21:47	1°  X07'52	
morning set	7215 May 15 16:18	17°  B40'35		7217 Oct 28 11:00	30°  R  M	
	7215 May 25 12:30	0°  II	evening set	7217 Nov 07 20:18	25°  M.05'09	
	7215 Jun 18 13:01	0°  E	inferior conj	7217 Nov 11 06:56	22°  M.57'28	-8°14'40
			minimum elong	7217 Nov 11 12:49	22°  M.48'15	8°14'05
superior conj	7215 Jun 24 01:59	6°  E54'03	min. Earth dist.	7217 Nov 11 20:56	22°  M.35'33	0.28892 AU
minimum elong	7215 Jun 24 10:46	7°  E21'23	morning rise	7217 Nov 15 05:12	20°  M.32'08	
max. Earth dist.	7215 Jun 27 11:51	11°  E08'41	direct	7217 Dec 02 19:17	14°  M.40'12	
asc. node	7215 Jul 11 10:26	28°  E27'25	greatest brilliancy	7217 Dec 13 18:08	16°  M.52'40	-4.8m
	7215 Jul 12 16:18	0°  Omega	asc. node	7217 Dec 26 06:09	23°  M.40'24	
evening rise	7215 Aug 01 12:10	24°  Omega31'45		7218 Jan 03 16:09	0°  X	
	7215 Aug 05 22:36	0°  M	morning max el	7218 Jan 21 17:55	16°  X33'50	46°22'41
	7215 Aug 30 08:10	0°  Omega		7218 Feb 03 16:35	0°  Z	
	7215 Sep 23 21:57	0°  M		7218 Mar 02 09:06	0°  approx	
	7215 Oct 18 17:42	0°  X		7218 Mar 27 16:05	0°  X	
desc. node	7215 Oct 31 03:29	14°  X50'55	desc. node	7218 Apr 16 23:07	24°  X39'23	
	7215 Nov 12 21:39	0°  Z		7218 Apr 21 07:48	0°  Y	
	7215 Dec 08 13:06	0°  approx		7218 May 15 16:07	0°  B	
	7216 Jan 04 00:43	0°  X		7218 Jun 08 21:32	0°  II	
evening max el	7216 Jan 27 20:46	25°  X14'37		7218 Jul 03 02:52	0°  E	
	7216 Feb 01 16:53	0°  Y	morning set	7218 Jul 26 21:32	29°  E23'38	
asc. node	7216 Feb 21 03:41	16°  Y52'55		7218 Jul 27 09:19	0°  Omega	
greatest brilliancy	7216 Mar 08 11:05	26°  Y10'32	asc. node	7218 Aug 07 22:18	14°  Omega14'44	
retrograde	7216 Mar 18 07:52	28°  Y01'54		7218 Aug 20 16:50	0°  M	
evening set	7216 Apr 04 20:32	22°  Y06'46				
inferior conj	7216 Apr 07 23:27	20°  Y12'55	superior conj	7218 Sep 02 09:03	15°  M37'29	0°56'18
minimum elong	7216 Apr 07 18:05	20°  Y21'11	minimum elong	7218 Sep 01 23:47	15°  M08'55	0°55'55
min. Earth dist.	7216 Apr 07 15:58	20°  Y24'26	max. Earth dist.	7218 Sep 03 04:52	16°  M38'32	1.73280 AU
morning rise	7216 Apr 10 15:42	18°  Y35'03		7218 Sep 14 00:59	0°  Omega	
direct	7216 Apr 28 12:57	12°  Y26'49		7218 Oct 08 09:44	0°  M	
greatest brilliancy	7216 May 08 00:28	14°  Y08'52	evening rise	7218 Oct 08 16:19	0°  M.20'16	
	7216 Jun 01 20:57	0°  B		7218 Nov 01 19:41	0°  X	
desc. node	7216 Jun 11 20:58	9°  B02'14		7218 Nov 26 07:34	0°  Z	
morning max el	7216 Jun 17 17:31	14°  B43'41	desc. node	7218 Nov 27 15:14	1°  Z36'45	
	7216 Jul 02 11:55	0°  II		7218 Dec 20 21:38	0°  approx	
	7216 Jul 29 13:10	0°  E		7219 Jan 14 14:25	0°  X	
	7216 Aug 24 11:17	0°  Omega		7219 Feb 08 12:25	0°  Y	
	7216 Sep 18 19:56	0°  M		7219 Mar 05 23:28	0°  B	
asc. node	7216 Oct 02 20:29	16°  M48'00	asc. node	7219 Mar 20 15:16	16°  B40'31	
	7216 Oct 13 19:08	0°  Omega		7219 Apr 01 20:29	0°  II	
	7216 Nov 07 10:34	0°  M	evening max el	7219 Apr 10 17:47	9°  II13'40	46°58'44
	7216 Dec 01 19:59	0°  X		7219 May 03 17:57	0°  E	
morning set	7216 Dec 13 20:42	14°  X52'48	greatest brilliancy	7219 May 20 18:38	10°  E01'36	-4.9m
	7216 Dec 26 01:11	0°  Z	retrograde	7219 May 31 05:15	12°  E03'39	
max. Earth dist.	7217 Jan 18 11:08	29°  Z09'05	evening set	7219 Jun 15 23:16	7°  E11'13	
	7217 Jan 19 03:28	0°  approx	inferior conj	7219 Jun 21 04:02	4°  E02'45	4°36'26
			minimum elong	7219 Jun 21 13:17	3°  E48'24	4°33'49
superior conj	7217 Jan 21 06:39	2°  approx39'44	min. Earth dist.	7219 Jun 21 00:51	4°  E07'42	0.27624 AU
minimum elong	7217 Jan 21 07:25	2°  approx42'08	morning rise	7219 Jun 27 03:49	0°  E29'18	
behind sun begin	7217 Jan 20 06:57	1°  approx25'43		7219 Jun 28 01:50	30°  R  II	
behind sun end	7217 Jan 22 07:54	3°  approx58'33	desc. node	7219 Jul 10 08:34	26°  II12'39	
desc. node	7217 Jan 22 12:55	4°  approx14'12	direct	7219 Jul 12 02:36	26°  II09'00	
	7217 Feb 12 03:28	0°  X	greatest brilliancy	7219 Jul 21 20:41	27°  II54'16	-4.8m
evening rise	7217 Mar 02 04:39	22°  X37'20		7219 Jul 26 21:10	0°  E	
	7217 Mar 08 01:49	0°  Y	morning max el	7219 Aug 30 04:56	26°  E33'52	45°53'11
	7217 Mar 31 23:55	0°  B		7219 Sep 02 17:43	0°  Omega	
	7217 Apr 25 00:11	0°  II		7219 Oct 01 07:34	0°  M	
asc. node	7217 May 15 12:48	25°  II26'28		7219 Oct 27 19:44	0°  Omega	
	7217 May 19 05:37	0°  E	asc. node	7219 Oct 31 08:37	4°  Omega06'27	
	7217 Jun 12 19:50	0°  Omega		7219 Nov 22 07:08	0°  M	
	7217 Jul 08 00:07	0°  M		7219 Dec 17 03:11	0°  X	
	7217 Aug 03 05:32	0°  Omega		7220 Jan 10 13:27	0°  Z	
	7217 Aug 31 19:36	0°  M		7220 Feb 03 17:32	0°  approx	
evening max el	7217 Sep 02 03:57	1°  M.18'11	desc. node	7220 Feb 20 00:56	20°  approx21'47	
desc. node	7217 Sep 04 06:04	3°  M.17'38	morning set	7220 Feb 25 16:47	27°  approx27'02	




































































































































	7220 Feb 27 17:37	0° H		desc. node	7222 Aug 06 20:28	21° H 41'44	
	7220 Mar 22 15:08	0° Y		retrograde	7222 Aug 09 17:33	21° H 51'26	
				evening set	7222 Aug 25 10:30	17° H 05'09	
superior conj	7220 Apr 06 16:50	18° Y 57'22 -1°24'21		min. Earth dist.	7222 Aug 30 14:49	13° H 58'01	0.28799 AU
minimum elong	7220 Apr 06 10:28	18° Y 37'22 1°24'17		inferior conj	7222 Aug 31 05:20	13° H 35'18	-5°26'59
max. Earth dist.	7220 Apr 07 02:01	19° Y 26'14 1.71187 AU		minimum elong	7222 Aug 30 19:38	13° H 50'29	5°24'45
	7220 Apr 15 11:33	0° B		morning rise	7222 Sep 05 05:02	10° H 32'54	
	7220 May 09 08:50	0° II		direct	7222 Sep 21 14:48	5° H 24'26	
evening rise	7220 May 17 07:58	9° II 58'26		greatest brilliancy	7222 Oct 01 13:33	7° H 11'01	-4.7m
	7220 Jun 02 08:58	0° E			7222 Nov 03 19:53	0° E	
asc. node	7220 Jun 12 00:32	11° E 59'36		morning max el	7222 Nov 09 09:07	5° E 12'27	45°44'25
	7220 Jun 26 13:40	0° O		asc. node	7222 Nov 27 20:23	24° E 01'15	
	7220 Jul 21 00:24	0° H			7222 Dec 03 09:28	0° H	
	7220 Aug 14 19:23	0° E			7222 Dec 29 21:43	0° A	
	7220 Sep 09 02:51	0° H			7223 Jan 24 03:52	0° B	
desc. node	7220 Oct 01 17:45	26° H 00'17			7223 Feb 17 18:36	0° \approx	
	7220 Oct 05 07:09	0° A			7223 Mar 14 00:45	0° H	
	7220 Nov 02 04:04	0° B		desc. node	7223 Mar 19 13:03	6° H 51'38	
evening max el	7220 Nov 12 19:58	10° B 35'20 45°57'47			7223 Apr 07 01:54	0° Y	
	7220 Dec 05 11:41	0° \approx			7223 May 01 00:38	0° B	
greatest brilliancy	7220 Dec 22 10:24	9° \approx 18'24 -4.8m		morning set	7223 May 13 03:59	15° B 12'55	
retrograde	7220 Dec 31 22:12	10° \approx 58'09			7223 May 24 23:16	0° II	
evening set	7221 Jan 15 12:43	6° \approx 50'07			7223 Jun 17 23:40	0° E	
inferior conj	7221 Jan 21 18:10	3° \approx 10'59 -0°15'13					
minimum elong	7221 Jan 21 18:45	3° \approx 10'06 0°14'58		superior conj	7223 Jun 21 15:31	4° E 33'39	-0°43'43
transit middle	7221 Jan 21 18:45	3° \approx 10'06 0°14'58		minimum elong	7223 Jun 22 00:51	5° E 02'42	0°43'23
transit begin	7221 Jan 21 16:59	3° \approx 12'48		max. Earth dist.	7223 Jun 25 01:05	8° E 47'32	1.72190 AU
transit end	7221 Jan 21 20:30	3° \approx 07'24		asc. node	7223 Jul 10 12:21	28° E 00'30	
min. Earth dist.	7221 Jan 22 06:08	2° \approx 52'34 0.27250 AU			7223 Jul 12 02:54	0° O	
asc. node	7221 Jan 22 17:58	2° \approx 34'21		evening rise	7223 Jul 30 04:16	22° O 20'34	
	7221 Jan 27 01:48	30° R B			7223 Aug 05 09:14	0° H	
morning rise	7221 Jan 28 00:00	29° B 29'21			7223 Aug 29 18:56	0° E	
direct	7221 Feb 11 14:19	25° B 15'58			7223 Sep 23 09:01	0° H	
greatest brilliancy	7221 Feb 22 07:42	27° B 24'54 -4.9m			7223 Oct 18 05:17	0° A	
	7221 Feb 27 21:39	0° \approx		desc. node	7223 Oct 30 05:26	14° A 21'14	
morning max el	7221 Apr 03 02:51	28° \approx 11'53 46°58'19			7223 Nov 12 10:05	0° B	
	7221 Apr 04 21:25	0° H			7223 Dec 08 03:00	0° \approx	
	7221 May 02 11:29	0° Y			7224 Jan 03 17:36	0° H	
desc. node	7221 May 14 11:12	13° Y 48'19		evening max el	7224 Jan 25 11:11	22° H 54'04	46°47'41
	7221 May 28 06:04	0° B			7224 Feb 01 18:25	0° Y	
	7221 Jun 22 07:47	0° II		asc. node	7224 Feb 20 05:43	15° Y 34'43	
	7221 Jul 17 02:37	0° E		greatest brilliancy	7224 Mar 05 22:58	23° Y 43'12	-4.9m
	7221 Aug 10 18:36	0° O		retrograde	7224 Mar 15 21:15	25° Y 35'28	
asc. node	7221 Sep 04 10:26	0° H 05'33		evening set	7224 Apr 02 05:15	19° Y 46'14	
	7221 Sep 04 08:37	0° H		min. Earth dist.	7224 Apr 05 03:55	17° Y 59'07	0.27025 AU
	7221 Sep 28 20:15	0° E		inferior conj	7224 Apr 05 12:04	17° Y 46'36	8°48'13
morning set	7221 Oct 03 19:21	6° E 05'51		minimum elong	7224 Apr 05 05:52	17° Y 56'07	8°47'37
	7221 Oct 23 05:19	0° H		morning rise	7224 Apr 08 06:34	16° Y 05'27	
max. Earth dist.	7221 Nov 07 14:15	18° H 58'25 1.73109 AU		direct	7224 Apr 26 02:08	10° Y 00'43	
				greatest brilliancy	7224 May 05 12:34	11° Y 42'17	-4.9m
superior conj	7221 Nov 09 07:18	21° H 05'12 1°22'27			7224 Jun 02 04:39	0° B	
minimum elong	7221 Nov 09 12:23	21° H 20'55 1°22'26		desc. node	7224 Jun 10 22:51	8° B 06'24	
	7221 Nov 16 12:25	0° A		morning max el	7224 Jun 15 07:53	12° B 23'21	46°39'31
	7221 Dec 10 18:23	0° B			7224 Jul 02 06:11	0° II	
evening rise	7221 Dec 16 18:31	7° B 26'05			7224 Jul 29 03:41	0° E	
desc. node	7221 Dec 25 03:02	17° B 46'55			7224 Aug 24 00:01	0° O	
	7222 Jan 03 23:39	0° \approx			7224 Sep 18 07:41	0° H	
	7222 Jan 28 04:11	0° H		asc. node	7224 Oct 01 22:28	16° H 19'37	
	7222 Feb 21 08:31	0° Y			7224 Oct 13 06:18	0° E	
	7222 Mar 17 14:50	0° B			7224 Nov 06 21:25	0° H	
	7222 Apr 11 03:41	0° II			7224 Dec 01 06:41	0° A	
asc. node	7222 Apr 17 02:59	7° II 12'37		morning set	7224 Dec 11 12:46	12° A 40'56	
	7222 May 06 06:47	0° E			7224 Dec 25 11:50	0° B	
	7222 Jun 01 15:20	0° O		max. Earth dist.	7225 Jan 15 23:46	26° B 45'32	1.71989 AU
evening max el	7222 Jun 21 01:15	20° O 20'47 46°14'09					
	7222 Jul 01 05:20	0° H		superior conj	7225 Jan 18 20:05	0° \approx 18'34	0°06'46
greatest brilliancy	7222 Jul 29 15:48	19° H 36'22 -4.8m		minimum elong	7225 Jan 18 21:45	0° \approx 23'46	0°06'46

behind sun begin	7225 Jan 17 23:02	29°  12'54		desc. node	7227 Jul 09 10:40	23°  50'42	
behind sun end	7225 Jan 19 20:28	1°  34'39		direct	7227 Jul 09 16:09	23°  50'38	
	7225 Jan 18 14:08	0°  3		greatest brilliancy	7227 Jul 19 10:52	25°  36'06	-4.8m
desc. node	7225 Jan 21 14:58	3°  47'17			7227 Jul 28 18:15	0°  0	
	7225 Feb 11 14:11	0°  1		morning max el	7227 Aug 27 18:37	24°  16'19	45°54'17
evening rise	7225 Feb 27 16:41	20°  10'39			7227 Sep 02 14:51	0°  0	
	7225 Mar 07 12:39	0°  1			7227 Sep 30 22:54	0°  1	
	7225 Mar 31 10:56	0°  8			7227 Oct 27 08:50	0°  1	
	7225 Apr 24 11:24	0°  1		asc. node	7227 Oct 30 10:30	3°  34'19	
asc. node	7225 May 14 14:39	24°  56'53			7227 Nov 21 19:09	0°  1	
	7225 May 18 17:09	0°  0			7227 Dec 16 14:38	0°  1	
	7225 Jun 12 07:55	0°  0			7228 Jan 10 00:37	0°  0	
	7225 Jul 07 13:15	0°  1			7228 Feb 03 04:35	0°  0	
	7225 Aug 02 20:56	0°  1		desc. node	7228 Feb 19 02:58	19°  53'40	
evening max el	7225 Aug 30 19:39	29°  07'20	45°39'15	morning set	7228 Feb 23 03:54	24°  57'03	
	7225 Aug 31 17:37	0°  1			7228 Feb 27 04:37	0°  1	
desc. node	7225 Sep 03 08:09	2°  12'44			7228 Mar 22 02:05	0°  1	
greatest brilliancy	7225 Oct 08 15:25	27°  11'38	-4.7m				
retrograde	7225 Oct 18 12:55	28°  15'11		superior conj	7228 Apr 04 03:47	16°  16'30	-1°23'11
evening set	7225 Nov 05 13:37	22°  15'20'01		minimum elong	7228 Apr 03 20:29	16°  03'34	1°23'06
inferior conj	7225 Nov 08 22:46	20°  14'15	-8°20'14	max. Earth dist.	7228 Apr 04 04:17	16°  03'03	1.71180 AU
minimum elong	7225 Nov 09 03:59	20°  18'04	8°19'46		7228 Apr 14 22:29	0°  1	
min. Earth dist.	7225 Nov 09 11:43	20°  15'56	0.28930 AU		7228 May 08 19:44	0°  1	
morning rise	7225 Nov 12 18:15	18°  12'48		evening rise	7228 May 14 19:23	7°  12'29'47	
direct	7225 Nov 30 11:41	12°  12'28'49			7228 Jun 01 19:54	0°  0	
greatest brilliancy	7225 Dec 11 09:04	14°  13'39'32	-4.8m	asc. node	7228 Jun 11 02:31	11°  03'14'42	
asc. node	7225 Dec 25 08:10	22°  12'27'00			7228 Jun 26 00:45	0°  0	
	7226 Jan 03 23:59	0°  1			7228 Jul 20 11:47	0°  1	
morning max el	7226 Jan 19 08:41	14°  17'02	46°21'05		7228 Aug 14 07:17	0°  1	
	7226 Feb 03 10:24	0°  0			7228 Sep 08 15:45	0°  1	
	7226 Mar 01 23:26	0°  0		desc. node	7228 Sep 30 19:40	25°  12'24'52	
	7226 Mar 27 04:54	0°  1			7228 Oct 04 22:03	0°  1	
desc. node	7226 Apr 16 01:05	24°  10'8'16			7228 Nov 01 23:55	0°  0	
	7226 Apr 20 19:49	0°  1		evening max el	7228 Nov 10 09:10	8°  03'16'04	45°56'21
	7226 May 15 03:39	0°  8			7228 Dec 06 10:06	0°  0	
	7226 Jun 08 08:44	0°  1		greatest brilliancy	7228 Dec 19 23:56	6°  05'57'34	-4.8m
	7226 Jul 02 13:49	0°  0		retrograde	7228 Dec 29 11:22	8°  03'37'14	
morning set	7226 Jul 24 13:27	27°  03'11'19		evening set	7229 Jan 13 03:14	4°  03'26'54	
	7226 Jul 26 20:04	0°  0		inferior conj	7229 Jan 19 07:44	0°  03'49'16	-0°38'26
asc. node	7226 Aug 07 00:24	13°  04'48'07		minimum elong	7229 Jan 19 09:12	0°  03'47'01	0°37'53
	7226 Aug 20 03:29	0°  1		min. Earth dist.	7229 Jan 19 20:53	0°  03'29'03	0.27300 AU
					7229 Jan 20 15:48	30°  03'03'03	
superior conj	7226 Aug 31 02:11	13°  12'29'37	0°53'46	asc. node	7229 Jan 21 20:02	29°  03'17'02	
minimum elong	7226 Aug 30 17:02	13°  12'01'25	0°53'23	morning rise	7229 Jan 25 14:21	27°  03'06'41	
max. Earth dist.	7226 Sep 01 00:48	14°  12'39'20	1.73260 AU	direct	7229 Feb 09 04:10	22°  03'53'04	
	7226 Sep 13 11:36	0°  1		greatest brilliancy	7229 Feb 19 23:33	25°  03'04'05	-4.9m
evening rise	7226 Oct 06 09:53	28°  03'13'46			7229 Mar 01 13:09	0°  0	
	7226 Oct 07 20:25	0°  1		morning max el	7229 Mar 31 17:20	25°  03'50'02	46°58'01
	7226 Nov 01 06:35	0°  1			7229 Apr 04 19:04	0°  1	
	7226 Nov 25 18:47	0°  0			7229 May 02 03:30	0°  1	
desc. node	7226 Nov 26 17:09	1°  03'08'18		desc. node	7229 May 13 13:04	13°  03'10'39	
	7226 Dec 20 09:20	0°  0			7229 May 27 19:49	0°  1	
	7227 Jan 14 02:47	0°  1			7229 Jun 21 20:20	0°  1	
	7227 Feb 08 01:49	0°  1			7229 Jul 16 14:25	0°  0	
	7227 Mar 05 14:43	0°  8			7229 Aug 10 05:55	0°  0	
asc. node	7227 Mar 19 17:17	15°  08'58'40		asc. node	7229 Sep 03 12:22	29°  03'37'50	
	7227 Apr 01 16:10	0°  1			7229 Sep 03 19:37	0°  1	
evening max el	7227 Apr 08 07:30	6°  02'51'05	46°59'30		7229 Sep 28 07:04	0°  1	
	7227 May 04 12:36	0°  0		morning set	7229 Oct 01 12:48	3°  03'58'46	
greatest brilliancy	7227 May 18 10:52	7°  03'43'51	-4.9m		7229 Oct 22 16:04	0°  1	
retrograde	7227 May 28 19:13	9°  03'44'09		max. Earth dist.	7229 Nov 05 10:35	16°  12'59'43	1.73138 AU
evening set	7227 Jun 13 16:31	4°  03'48'12					
inferior conj	7227 Jun 18 18:19	1°  03'44'00	4°55'55	superior conj	7229 Nov 07 00:39	18°  12'57'15	1°23'17
minimum elong	7227 Jun 19 04:00	1°  03'28'58	4°53'14	minimum elong	7229 Nov 07 05:06	19°  12'10'58	1°23'18
min. Earth dist.	7227 Jun 18 15:55	1°  03'47'44	0.27596 AU		7229 Nov 15 23:12	0°  1	
	7227 Jun 21 13:57	30°  03'08'11			7229 Dec 10 05:18	0°  0	
morning rise	7227 Jun 24 15:54	28°  02'11'12		evening rise	7229 Dec 14 09:54	5°  03'11'18	

desc. node	7229 Dec 24 05:05	17°  19'09		7232 Aug 23 12:59	0° 	
	7230 Jan 03 10:45	0° 		7232 Sep 17 19:39	0° 	
	7230 Jan 27 15:33	0° 		asc. node	7232 Oct 01 00:24	15°  50'26
	7230 Feb 20 20:13	0° 			7232 Oct 12 17:41	0° 
	7230 Mar 17 03:01	0° 			7232 Nov 06 08:29	0° 
	7230 Apr 10 16:36	0° 			7232 Nov 30 17:37	0° 
asc. node	7230 Apr 16 04:51	6°  38'45		morning set	7232 Dec 09 05:06	10°  29'11
	7230 May 05 21:03	0° 			7232 Dec 24 22:45	0° 
	7230 Jun 01 08:33	0° 		max. Earth dist.	7233 Jan 13 10:50	24°  16'20 1.72036 AU
evening max el	7230 Jun 18 17:08	18°  07'12 46°16'08				
	7230 Jul 01 09:01	0° 		superior conj	7233 Jan 16 09:40	27°  57'03 0°10'26
greatest brilliancy	7230 Jul 27 07:05	17°  24'16 -4.8m		minimum elong	7233 Jan 16 12:12	28°  04'57 0°10'23
desc. node	7230 Aug 05 22:28	19°  38'14		behind sun begin	7233 Jan 15 17:04	27°  05'17
retrograde	7230 Aug 07 10:31	19°  40'54		behind sun end	7233 Jan 17 07:20	29°  04'36
evening set	7230 Aug 23 00:31	14°  57'33			7233 Jan 18 01:06	0° 
inferior conj	7230 Aug 28 21:28	11°  24'50 -5°11'10		desc. node	7233 Jan 20 17:02	3°  19'24
minimum elong	7230 Aug 28 11:58	11°  39'42 5°08'55			7233 Feb 11 01:15	0° 
min. Earth dist.	7230 Aug 28 06:22	11°  48'27 0.28760 AU		evening rise	7233 Feb 25 04:31	17°  42'22
morning rise	7230 Sep 02 23:47	8°  19'07			7233 Mar 06 23:50	0° 
direct	7230 Sep 19 06:49	3°  14'31			7233 Mar 30 22:15	0° 
greatest brilliancy	7230 Sep 29 04:45	5°  00'51 -4.7m			7233 Apr 23 22:56	0° 
	7230 Nov 03 20:06	0° 		asc. node	7233 May 13 16:42	24°  26'54
morning max el	7230 Nov 07 01:34	3°  03'22 45°43'45			7233 May 18 05:01	0° 
asc. node	7230 Nov 26 22:26	23°  21'04			7233 Jun 11 20:21	0° 
	7230 Dec 03 01:36	0° 			7233 Jul 07 02:47	0° 
	7230 Dec 29 11:19	0° 			7233 Aug 02 12:52	0° 
	7231 Jan 23 16:21	0° 		evening max el	7233 Aug 28 10:43	26°  54'19 45°39'43
	7231 Feb 17 06:31	0° 			7233 Aug 31 16:49	0° 
	7231 Mar 13 12:19	0° 		desc. node	7233 Sep 02 10:07	1°  36'04
desc. node	7231 Mar 18 14:58	6°  21'46		greatest brilliancy	7233 Oct 06 06:42	25°  01'20 -4.7m
	7231 Apr 06 13:15	0° 		retrograde	7233 Oct 16 04:08	26°  47'04
	7231 Apr 30 11:50	0° 		evening set	7233 Nov 03 06:55	20°  39'50
morning set	7231 May 10 15:34	12°  43'52		inferior conj	7233 Nov 06 14:55	18°  35'41 -8°24'53
	7231 May 24 10:21	0° 		minimum elong	7233 Nov 06 19:26	18°  28'35 8°24'31
	7231 Jun 17 10:41	0° 		min. Earth dist.	7233 Nov 07 03:01	18°  16'40 0.28964 AU
				morning rise	7233 Nov 10 07:50	16°  17'49
superior conj	7231 Jun 19 05:01	2°  01'57 -0°46'53		direct	7233 Nov 28 03:52	10°  18'04
minimum elong	7231 Jun 19 14:50	2°  42'32 0°46'33		greatest brilliancy	7233 Dec 09 00:40	12°  27'39 -4.8m
max. Earth dist.	7231 Jun 22 15:39	6°  29'19 1.72140 AU		asc. node	7233 Dec 24 10:14	21°  15'51
asc. node	7231 Jul 09 14:28	27°  33'06			7234 Jan 04 05:32	0° 
	7231 Jul 11 13:51	0° 		morning max el	7234 Jan 16 22:45	11°  27'58'14 46°19'19
evening rise	7231 Jul 27 20:29	20°  08'43			7234 Feb 03 03:58	0° 
	7231 Aug 04 20:10	0° 			7234 Mar 01 13:50	0° 
	7231 Aug 29 05:59	0° 			7234 Mar 26 17:55	0° 
	7231 Sep 22 20:22	0° 		desc. node	7234 Apr 15 03:03	23°  43'6'17
	7231 Oct 17 17:12	0° 			7234 Apr 20 08:05	0° 
desc. node	7231 Oct 29 07:22	13°  27'50'29			7234 May 14 15:25	0° 
	7231 Nov 11 22:56	0° 			7234 May 07 20:08	0° 
	7231 Dec 07 17:27	0° 			7234 Jul 02 00:56	0° 
	7232 Jan 03 11:17	0° 		morning set	7234 Jul 22 05:07	24°  05'7'39
evening max el	7232 Jan 23 02:00	20°  43'31'17 46°46'09			7234 Jul 26 07:00	0° 
	7232 Feb 01 22:00	0° 		asc. node	7234 Aug 06 02:17	13°  02'20'22
asc. node	7232 Feb 19 07:42	14°  07'12'37			7234 Aug 19 14:18	0° 
greatest brilliancy	7232 Mar 03 11:16	21°  07'15'17 -4.9m				
retrograde	7232 Mar 13 10:21	23°  07'45		superior conj	7234 Aug 28 19:20	11°  21'20 0°51'09
evening set	7232 Mar 30 13:48	17°  25'10		minimum elong	7234 Aug 28 10:22	10°  27'53'41 0°50'47
min. Earth dist.	7232 Apr 02 16:03	15°  07'32'37 0.27008 AU		max. Earth dist.	7234 Aug 29 18:50	12°  27'33'46 1.73238 AU
inferior conj	7232 Apr 03 00:44	15°  07'19'17 8°40'52			7234 Sep 12 22:23	0° 
minimum elong	7232 Apr 02 17:44	15°  07'30'02 8°40'07		evening rise	7234 Oct 04 03:42	26°  07'39
morning rise	7232 Apr 05 21:46	13°  07'34'18			7234 Oct 07 07:15	0° 
direct	7232 Apr 23 15:24	7° 07'33'50			7234 Oct 31 17:34	0°
greatest brilliancy	7232 May 03 00:47	9° 07'14'43 -4.9m			7234 Nov 25 06:03	0°
	7232 Jun 02 10:30	0°		desc. node	7234 Nov 25 19:16	0° 40'18
desc. node	7232 Jun 10 01:00	7° 08'11'21			7234 Dec 19 21:05	0°
morning max el	7232 Jun 12 21:21	9° 08'59'43 46°40'54			7235 Jan 13 15:15	0°
	7232 Jul 02 00:23	0°			7235 Feb 07 15:25	0°
	7232 Jul 28 18:21	0°			7235 Mar 05 06:22	0°

asc. node	7235 Mar 18 19:10	15°♄15'17		asc. node	7237 Sep 02 14:19	29°♏10'27	
	7235 Apr 01 12:48	0°♈			7237 Sep 03 06:30	0°♎	
evening max el	7235 Apr 05 20:21	4°♈25'24	47°00'07		7237 Sep 27 17:45	0°♏	
	7235 May 05 14:43	0°♏		morning set	7237 Sep 29 05:59	1°♏51'20	
greatest brilliancy	7235 May 16 02:50	5°♏24'24	-4.9m		7237 Oct 22 02:39	0°♎	
retrograde	7235 May 26 09:03	7°♏23'20		max. Earth dist.	7237 Nov 03 07:16	15°♎02'37	1.73162 AU
evening set	7235 Jun 11 09:36	2°♏23'24					
	7235 Jun 15 09:03	30°♋♈		superior conj	7237 Nov 04 17:52	16°♎49'28	1°24'01
inferior conj	7235 Jun 16 08:22	29°♈23'49	5°14'56	minimum elong	7237 Nov 04 21:39	17°♎01'08	1°24'03
minimum elong	7235 Jun 16 18:25	29°♈08'14	5°12'15		7237 Nov 15 09:48	0°♌	
min. Earth dist.	7235 Jun 16 06:48	29°♈26'16	0.27570 AU		7237 Dec 09 16:02	0°♏	
morning rise	7235 Jun 22 03:32	25°♈56'11		evening rise	7237 Dec 12 01:21	2°♏57'19	
direct	7235 Jul 07 05:11	21°♈30'41		desc. node	7237 Dec 23 07:05	16°♏51'53	
desc. node	7235 Jul 08 12:40	21°♈32'41			7238 Jan 02 21:40	0°♎	
greatest brilliancy	7235 Jul 17 01:07	23°♈16'59	-4.8m		7238 Jan 27 02:41	0°♋	
	7235 Jul 30 01:24	0°♏			7238 Feb 20 07:39	0°♎	
morning max el	7235 Aug 25 08:27	21°♏58'31	45°55'33		7238 Mar 16 14:53	0°♌	
	7235 Sep 02 11:25	0°♏			7238 Apr 10 05:15	0°♈	
	7235 Sep 30 14:05	0°♎		asc. node	7238 Apr 15 06:56	6°♈06'23	
	7235 Oct 26 21:53	0°♏			7238 May 05 11:07	0°♏	
asc. node	7235 Oct 29 12:29	3°♏02'29			7238 Jun 01 01:52	0°♏	
	7235 Nov 21 07:08	0°♎		evening max el	7238 Jun 16 09:28	15°♏55'06	46°17'49
	7235 Dec 16 02:03	0°♌			7238 Jul 01 14:29	0°♎	
	7236 Jan 09 11:43	0°♏		greatest brilliancy	7238 Jul 24 22:31	15°♎12'05	-4.8m
	7236 Feb 02 15:32	0°♎		retrograde	7238 Aug 05 03:10	17°♎29'31	
desc. node	7236 Feb 18 04:52	19°♎25'28		desc. node	7238 Aug 05 00:25	17°♎29'30	
morning set	7236 Feb 20 15:30	22°♎28'53		evening set	7238 Aug 20 14:22	12°♎49'19	
	7236 Feb 26 15:32	0°♋		min. Earth dist.	7238 Aug 25 21:34	9°♎38'14	0.28720 AU
	7236 Mar 21 13:00	0°♎		inferior conj	7238 Aug 26 13:16	9°♎13'43	-4°54'41
				minimum elong	7238 Aug 26 04:01	9°♎28'11	4°52'25
superior conj	7236 Apr 01 14:39	13°♎55'25	-1°21'51	morning rise	7238 Aug 31 18:09	6°♎04'37	
minimum elong	7236 Apr 01 06:31	13°♎29'49	1°21'44	direct	7238 Sep 16 22:51	1°♎04'11	
max. Earth dist.	7236 Apr 01 08:30	13°♎36'02	1.71186 AU	greatest brilliancy	7238 Sep 26 19:11	2°♎49'37	-4.7m
	7236 Apr 14 09:24	0°♌			7238 Nov 03 19:03	0°♏	
	7236 May 08 06:41	0°♈		morning max el	7238 Nov 04 17:24	0°♏53'22	45°43'10
evening rise	7236 May 12 06:21	4°♈59'36		asc. node	7238 Nov 26 00:31	22°♏42'04	
	7236 Jun 01 06:56	0°♏			7238 Dec 02 17:12	0°♎	
asc. node	7236 Jun 10 04:34	11°♏03'46			7238 Dec 29 00:31	0°♌	
	7236 Jun 25 11:55	0°♏			7239 Jan 23 04:28	0°♏	
	7236 Jul 19 23:13	0°♎			7239 Feb 16 18:03	0°♎	
	7236 Aug 13 19:16	0°♏			7239 Mar 12 23:30	0°♋	
	7236 Sep 08 04:44	0°♎		desc. node	7239 Mar 17 16:57	5°♋53'14	
desc. node	7236 Sep 29 21:38	24°♎49'22			7239 Apr 06 00:11	0°♎	
	7236 Oct 04 13:07	0°♌			7239 Apr 29 22:36	0°♌	
	7236 Nov 01 20:19	0°♏		morning set	7239 May 08 03:28	10°♌17'08	
evening max el	7236 Nov 07 23:14	5°♏59'28	45°55'06		7239 May 23 21:01	0°♈	
	7236 Dec 07 16:37	0°♎					
greatest brilliancy	7236 Dec 17 13:13	4°♎37'34	-4.8m	superior conj	7239 Jun 16 18:37	29°♈51'42	-0°49'57
retrograde	7236 Dec 27 01:16	6°♎17'35		minimum elong	7239 Jun 17 04:51	0°♏23'37	0°49'37
evening set	7237 Jan 10 18:11	2°♎04'53			7239 Jun 16 21:16	0°♏	
	7237 Jan 14 09:35	30°♋♏		max. Earth dist.	7239 Jun 20 08:33	4°♏19'30	1.72096 AU
inferior conj	7237 Jan 16 21:29	28°♏28'50	-1°01'21	asc. node	7239 Jul 08 16:21	27°♏06'14	
minimum elong	7237 Jan 16 23:49	28°♏25'14	1°00'31		7239 Jul 11 00:25	0°♏	
min. Earth dist.	7237 Jan 17 11:25	28°♏07'25	0.27346 AU	evening rise	7239 Jul 25 12:31	17°♏57'15	
asc. node	7237 Jan 20 21:55	26°♏02'58			7239 Aug 04 06:47	0°♎	
morning rise	7237 Jan 23 04:41	24°♏45'44			7239 Aug 28 16:45	0°♏	
direct	7237 Feb 06 18:43	20°♏31'46			7239 Sep 22 07:28	0°♎	
greatest brilliancy	7237 Feb 17 14:51	22°♏44'02	-4.9m		7239 Oct 17 04:51	0°♌	
	7237 Mar 02 16:04	0°♎		desc. node	7239 Oct 28 09:28	13°♌21'04	
morning max el	7237 Mar 29 08:31	23°♎31'03	46°57'29		7239 Nov 11 11:32	0°♏	
	7237 Apr 04 15:35	0°♋			7239 Dec 07 07:43	0°♎	
	7237 May 01 18:59	0°♎			7240 Jan 03 05:00	0°♋	
desc. node	7237 May 12 15:11	12°♎34'36		evening max el	7240 Jan 20 16:11	18°♋12'02	46°44'34
	7237 May 27 09:17	0°♌			7240 Feb 02 02:52	0°♎	
	7237 Jun 21 08:42	0°♈		asc. node	7240 Feb 18 09:40	12°♎48'49	
	7237 Jul 16 02:07	0°♏		greatest brilliancy	7240 Mar 01 00:15	18°♎49'26	-4.9m
	7237 Aug 09 17:09	0°♏		retrograde	7240 Mar 10 23:04	20°♎41'19	

evening set	7240 Mar 27 22:17	15° Υ 05'51		minimum elong	7242 Aug 26 04:00	8° \mathbb{M} 48'02	0°48'06
min. Earth dist.	7240 Mar 31 04:38	13° Υ 07'06	0.26986 AU	max. Earth dist.	7242 Aug 27 12:56	10° \mathbb{M} 29'31	1.73218 AU
inferior conj	7240 Mar 31 13:27	12° Υ 53'31	8°32'37		7242 Sep 12 08:49	0° $\underline{\mathbf{A}}$	
minimum elong	7240 Mar 31 05:42	13° Υ 05'26	8°31'42	evening rise	7242 Oct 01 21:46	24° $\underline{\mathbf{A}}$ 03'19	
morning rise	7240 Apr 03 13:14	11° Υ 04'18			7242 Oct 06 17:47	0° \mathbb{M}	
direct	7240 Apr 21 04:11	5° Υ 08'32			7242 Oct 31 04:18	0° \mathbb{X}	
greatest brilliancy	7240 Apr 30 13:31	6° Υ 49'07	-4.9m	desc. node	7242 Nov 24 21:12	0° \mathbb{Z} 12'22	
	7240 Jun 02 13:47	0° \mathbb{X}			7242 Nov 24 17:09	0° \mathbb{Z}	
desc. node	7240 Jun 09 02:57	6° \mathbb{X} 18'31			7242 Dec 19 08:41	0° \approx	
morning max el	7240 Jun 10 09:46	7° \mathbb{X} 34'56	46°42'20		7243 Jan 13 03:36	0° \mathbb{X}	
	7240 Jul 01 17:34	0° \mathbb{I}			7243 Feb 07 04:55	0° Υ	
	7240 Jul 28 08:19	0° \mathbb{G}			7243 Mar 04 22:00	0° \mathbb{X}	
	7240 Aug 23 01:23	0° Ω		asc. node	7243 Mar 17 21:16	14° \mathbb{X} 32'34	
	7240 Sep 17 07:11	0° \mathbb{M}			7243 Apr 01 09:51	0° \mathbb{I}	
asc. node	7240 Sep 30 02:25	15° \mathbb{M} 22'35		evening max el	7243 Apr 03 09:12	2° \mathbb{I} 00'30	47°00'48
	7240 Oct 12 04:43	0° $\underline{\mathbf{A}}$			7243 May 07 03:16	0° \mathbb{G}	
	7240 Nov 05 19:14	0° \mathbb{M}		greatest brilliancy	7243 May 13 18:15	3° \mathbb{G} 04'50	-4.9m
	7240 Nov 30 04:14	0° \mathbb{X}		retrograde	7243 May 23 23:17	5° \mathbb{G} 03'14	
morning set	7240 Dec 06 21:12	8° \mathbb{X} 17'42		evening set	7243 Jun 09 02:44	29° \mathbb{I} 58'49	
	7240 Dec 24 09:20	0° \mathbb{Z}			7243 Jun 09 01:55	30° \mathbb{R} \mathbb{I}	
max. Earth dist.	7241 Jan 10 22:39	21° \mathbb{Z} 50'33	1.72083 AU	inferior conj	7243 Jun 13 22:23	27° \mathbb{I} 04'06	5°33'30
				minimum elong	7243 Jun 14 08:44	26° \mathbb{I} 48'05	5°30'50
superior conj	7241 Jan 13 23:10	25° \mathbb{Z} 36'29	0°14'04	min. Earth dist.	7243 Jun 13 21:23	27° \mathbb{I} 05'39	0.27544 AU
minimum elong	7241 Jan 14 02:32	25° \mathbb{Z} 47'00	0°13'58	morning rise	7243 Jun 19 14:58	23° \mathbb{I} 40'14	
behind sun begin	7241 Jan 13 14:06	25° \mathbb{Z} 08'15		direct	7243 Jul 04 18:20	19° \mathbb{I} 11'03	
behind sun end	7241 Jan 14 14:58	26° \mathbb{Z} 25'46		desc. node	7243 Jul 07 14:35	19° \mathbb{I} 20'28	
	7241 Jan 17 11:42	0° \approx		greatest brilliancy	7243 Jul 14 15:06	20° \mathbb{I} 58'14	-4.8m
desc. node	7241 Jan 19 18:53	2° \approx 52'03			7243 Jul 30 23:30	0° \mathbb{G}	
	7241 Feb 10 11:57	0° \mathbb{X}		morning max el	7243 Aug 22 23:07	19° \mathbb{G} 43'29	45°57'01
evening rise	7241 Feb 22 16:24	15° \mathbb{X} 15'22			7243 Sep 02 06:59	0° Ω	
	7241 Mar 06 10:40	0° Υ			7243 Sep 30 04:44	0° \mathbb{M}	
	7241 Mar 30 09:15	0° \mathbb{X}			7243 Oct 26 10:34	0° $\underline{\mathbf{A}}$	
	7241 Apr 23 10:06	0° \mathbb{I}		asc. node	7243 Oct 28 14:34	2° $\underline{\mathbf{A}}$ 31'51	
asc. node	7241 May 12 18:44	23° \mathbb{I} 58'07			7243 Nov 20 18:51	0° \mathbb{M}	
	7241 May 17 16:28	0° \mathbb{G}			7243 Dec 15 13:16	0° \mathbb{X}	
	7241 Jun 11 08:22	0° Ω			7244 Jan 08 22:42	0° \mathbb{Z}	
	7241 Jul 06 15:57	0° \mathbb{M}			7244 Feb 02 02:26	0° \approx	
	7241 Aug 02 04:35	0° $\underline{\mathbf{A}}$		desc. node	7244 Feb 17 06:55	18° \approx 57'54	
evening max el	7241 Aug 26 00:57	24° $\underline{\mathbf{A}}$ 40'22	45°40'02	morning set	7244 Feb 18 02:57	20° \approx 00'34	
	7241 Aug 31 16:37	0° \mathbb{M}			7244 Feb 26 02:23	0° \mathbb{X}	
desc. node	7241 Sep 01 12:05	0° \mathbb{M} 44'32			7244 Mar 20 23:50	0° Υ	
greatest brilliancy	7241 Oct 03 21:46	22° \mathbb{M} 51'26	-4.7m	max. Earth dist.	7244 Mar 29 15:47	10° Υ 53'57	1.71191 AU
retrograde	7241 Oct 13 19:19	24° \mathbb{M} 37'43					
evening set	7241 Oct 31 23:46	18° \mathbb{M} 28'39		superior conj	7244 Mar 30 01:14	11° Υ 23'39	-1°20'21
inferior conj	7241 Nov 04 06:58	16° \mathbb{M} 25'45	-8°28'44	minimum elong	7244 Mar 29 16:18	10° Υ 55'36	1°20'11
minimum elong	7241 Nov 04 10:44	16° \mathbb{M} 19'49	8°28'28		7244 Apr 13 20:14	0° \mathbb{X}	
min. Earth dist.	7241 Nov 04 18:21	16° \mathbb{M} 07'50	0.29000 AU		7244 May 07 17:32	0° \mathbb{I}	
morning rise	7241 Nov 07 21:34	14° \mathbb{M} 11'14		evening rise	7244 May 09 17:15	2° \mathbb{I} 29'27	
direct	7241 Nov 25 19:35	8° \mathbb{M} 07'43			7244 May 31 17:52	0° \mathbb{G}	
greatest brilliancy	7241 Dec 06 16:44	10° \mathbb{M} 16'58	-4.8m	asc. node	7244 Jun 09 06:28	10° \mathbb{G} 35'40	
asc. node	7241 Dec 23 12:06	20° \mathbb{M} 06'51			7244 Jun 24 23:00	0° Ω	
	7242 Jan 04 08:54	0° \mathbb{X}			7244 Jul 19 10:35	0° \mathbb{M}	
morning max el	7242 Jan 14 12:55	9° \mathbb{X} 40'29	46°17'43		7244 Aug 13 07:08	0° $\underline{\mathbf{A}}$	
	7242 Feb 02 20:52	0° \mathbb{Z}			7244 Sep 07 17:39	0° \mathbb{M}	
	7242 Mar 01 03:46	0° \approx		desc. node	7244 Sep 28 23:45	24° \mathbb{M} 14'32	
	7242 Mar 26 06:32	0° \mathbb{X}			7244 Oct 04 04:13	0° \mathbb{X}	
desc. node	7242 Apr 14 05:05	23° \mathbb{X} 05'42			7244 Nov 01 17:15	0° \mathbb{Z}	
	7242 Apr 19 19:58	0° Υ		evening max el	7244 Nov 05 14:04	3° \mathbb{Z} 45'19	45°53'43
	7242 May 14 02:49	0° \mathbb{X}			7244 Dec 09 13:14	0° \approx	
	7242 Jun 07 07:12	0° \mathbb{I}		greatest brilliancy	7244 Dec 15 02:13	2° \approx 17'35	-4.8m
	7242 Jul 01 11:42	0° \mathbb{G}		retrograde	7244 Dec 24 15:06	3° \approx 57'49	
morning set	7242 Jul 19 21:03	22° \mathbb{G} 45'45			7245 Jan 07 20:21	30° \mathbb{R} \mathbb{Z}	
	7242 Jul 25 17:34	0° Ω		evening set	7245 Jan 08 09:19	29° \mathbb{Z} 42'45	
asc. node	7242 Aug 05 04:15	12° Ω 54'03		inferior conj	7245 Jan 14 11:10	26° \mathbb{Z} 08'12	-1°24'05
	7242 Aug 19 00:45	0° \mathbb{M}		minimum elong	7245 Jan 14 14:22	26° \mathbb{Z} 03'18	1°23'00
				min. Earth dist.	7245 Jan 15 01:42	25° \mathbb{Z} 45'53	0.27399 AU
superior conj	7242 Aug 26 12:45	9° \mathbb{M} 15'00	0°48'30	asc. node	7245 Jan 19 23:57	22° \mathbb{Z} 50'32	

morning rise	7245 Jan 20 18:44	22°  24'45	evening rise	7247 Jul 23 04:08	15°  43'29
direct	7245 Feb 04 09:38	18°  10'21		7247 Aug 03 17:42	0° 
greatest brilliancy	7245 Feb 15 05:40	20°  22'59 -4.9m		7247 Aug 28 03:51	0° 
	7245 Mar 03 11:58	0° 		7247 Sep 21 18:53	0° 
morning max el	7245 Mar 26 23:46	21°  11'50 46°56'51		7247 Oct 16 16:50	0° 
	7245 Apr 04 11:38	0° 	desc. node	7247 Oct 27 11:24	12°  50'13
	7245 May 01 10:23	0° 		7247 Nov 11 00:28	0° 
desc. node	7245 May 11 17:11	11°  58'08		7247 Dec 06 22:22	0° 
	7245 May 26 22:42	0° 		7248 Jan 02 23:21	0° 
	7245 Jun 20 21:03	0° 	evening max el	7248 Jan 18 05:23	15°  47'51 46°42'52
	7245 Jul 15 13:48	0° 		7248 Feb 02 10:09	0° 
	7245 Aug 09 04:22	0° 	asc. node	7248 Feb 17 11:43	11°  21'31
asc. node	7245 Sep 01 16:23	28°  43'24	greatest brilliancy	7248 Feb 27 13:37	16°  23'17 -4.9m
	7245 Sep 02 17:25	0° 	retrograde	7248 Mar 08 11:20	18°  14'10
morning set	7245 Sep 26 23:32	29°  44'57	evening set	7248 Mar 25 06:39	12°  45'47
	7245 Sep 27 04:26	0° 	min. Earth dist.	7248 Mar 28 17:39	10°  40'07 0.26974 AU
	7245 Oct 21 13:15	0° 	inferior conj	7248 Mar 29 02:13	10°  26'55 8°23'19
max. Earth dist.	7245 Nov 01 04:06	13°  46'03 1.73181 AU	minimum elong	7248 Mar 28 17:47	10°  39'54 8°22'11
			morning rise	7248 Apr 01 05:01	8°  33'00
superior conj	7245 Nov 02 11:32	14°  43'05 1°24'37	direct	7248 Apr 18 16:29	2°  41'57
minimum elong	7245 Nov 02 14:39	14°  52'41 1°24'39	greatest brilliancy	7248 Apr 28 03:06	4°  23'06 -4.9m
	7245 Nov 14 20:26	0° 		7248 Jun 02 16:11	0° 
	7245 Dec 09 02:48	0° 	morning max el	7248 Jun 07 21:45	5°  07'14 46°43'42
evening rise	7245 Dec 09 17:10	0°  34'26	desc. node	7248 Jun 08 04:52	5°  24'59
desc. node	7245 Dec 22 09:00	16°  32'41		7248 Jul 01 10:57	0° 
	7246 Jan 02 08:40	0° 		7248 Jul 27 22:39	0° 
	7246 Jan 26 13:58	0° 		7248 Aug 22 14:11	0° 
	7246 Feb 19 19:18	0° 		7248 Sep 16 19:05	0° 
	7246 Mar 16 03:04	0° 	asc. node	7248 Sep 29 04:24	14°  53'34
	7246 Apr 09 18:14	0° 		7248 Oct 11 16:05	0° 
asc. node	7246 Apr 14 08:55	5°  32'44		7248 Nov 05 06:19	0° 
	7246 May 05 01:37	0° 		7248 Nov 29 15:10	0° 
	7246 May 31 19:51	0° 	morning set	7248 Dec 04 13:34	6°  06'03
evening max el	7246 Jun 14 01:44	13°  42'05 46°19'38		7248 Dec 23 20:13	0° 
	7246 Jul 01 22:32	0° 	max. Earth dist.	7249 Jan 08 12:51	19°  31'21 1.72126 AU
greatest brilliancy	7246 Jul 22 14:43	13°  40'16 -4.8m			
retrograde	7246 Aug 02 19:34	15°  47'29	superior conj	7249 Jan 11 13:12	23°  31'40 0°17'38
desc. node	7246 Aug 04 02:29	15°  47'30	minimum elong	7249 Jan 11 17:23	23°  29'42 0°17'30
evening set	7246 Aug 18 04:28	10°  40'30		7249 Jan 16 22:38	0° 
min. Earth dist.	7246 Aug 23 13:06	7°  47'10 0.28674 AU	desc. node	7249 Jan 18 20:58	2°  24'27
inferior conj	7246 Aug 24 05:05	7°  47'10 -4°37'48		7249 Feb 09 22:58	0° 
minimum elong	7246 Aug 23 20:10	7°  47'10 4°35'34	evening rise	7249 Feb 20 04:51	12°  49'26
morning rise	7246 Aug 29 12:27	3°  49'37		7249 Mar 05 21:49	0° 
	7246 Sep 07 03:22	30°  48'42		7249 Mar 29 20:33	0° 
direct	7246 Sep 14 14:53	28°  48'32		7249 Apr 22 21:39	0° 
	7246 Sep 22 08:42	0° 	asc. node	7249 May 11 20:37	23°  48'26
greatest brilliancy	7246 Sep 24 09:36	0°  47'46 -4.7m		7249 May 17 04:24	0° 
morning max el	7246 Nov 02 08:33	28°  41'22 45°42'45		7249 Jun 10 20:57	0° 
	7246 Nov 03 17:12	0° 		7249 Jul 06 05:46	0° 
asc. node	7246 Nov 25 02:22	22°  40'27		7249 Aug 01 21:09	0° 
	7246 Dec 02 08:41	0° 	evening max el	7249 Aug 23 15:00	22°  43'36 45°40'42
	7246 Dec 28 13:45	0° 	desc. node	7249 Aug 31 14:10	29°  40'44
	7247 Jan 22 16:41	0° 		7249 Aug 31 18:18	0° 
	7247 Feb 16 05:46	0° 	greatest brilliancy	7249 Oct 01 12:27	20°  43'59 -4.7m
	7247 Mar 12 10:55	0° 	retrograde	7249 Oct 11 10:59	22°  43'33
desc. node	7247 Mar 16 19:01	5°  44'10	evening set	7249 Oct 29 16:26	16°  43'44
	7247 Apr 05 11:26	0° 	inferior conj	7249 Nov 01 23:04	14°  43'50 -8°31'58
	7247 Apr 29 09:44	0° 	minimum elong	7249 Nov 02 02:06	14°  43'50 8°31'46
morning set	7247 May 05 14:47	7°  47'22	min. Earth dist.	7249 Nov 02 09:34	13°  43'50 0.29032 AU
	7247 May 23 08:03	0° 	morning rise	7249 Nov 05 11:37	12°  43'31
			direct	7249 Nov 23 11:18	5°  43'20
superior conj	7247 Jun 14 07:42	27°  48'45 -0°52'59	greatest brilliancy	7249 Dec 04 08:53	8°  43'38 -4.8m
minimum elong	7247 Jun 14 18:17	28°  48'45 0°52'38	asc. node	7249 Dec 22 14:09	18°  43'02
	7247 Jun 16 08:13	0° 		7250 Jan 04 11:06	0° 
max. Earth dist.	7247 Jun 18 00:44	2°  48'16 1.72045 AU	morning max el	7250 Jan 12 04:06	7°  47'29 46°16'14
asc. node	7247 Jul 07 18:19	26°  48'32		7250 Feb 02 13:45	0° 
	7247 Jul 10 11:18	0° 		7250 Feb 28 17:51	0° 

	7250 Mar 25 19:20	0°♄			7252 Oct 03 19:53	0°♁	
desc. node	7250 Apr 13 07:02	22°♄34'06			7252 Nov 01 15:21	0°♄	
	7250 Apr 19 08:04	0°♅		evening max el	7252 Nov 03 05:25	1°♄31'38	45°52'27
	7250 May 13 14:29	0°♄		greatest brilliancy	7252 Dec 12 15:42	29°♄57'53	-4.8m
	7250 Jun 06 18:33	0°♅			7252 Dec 12 18:15	0°♄	
	7250 Jun 30 22:51	0°♄		retrograde	7252 Dec 22 04:48	1°♄37'39	
morning set	7250 Jul 17 12:32	20°♄31'04			7252 Dec 31 04:57	30°♄	
	7250 Jul 25 04:33	0°♅		evening set	7253 Jan 06 00:43	27°♄20'23	
asc. node	7250 Aug 04 06:20	12°♅26'43		inferior conj	7253 Jan 12 00:58	23°♄47'29	-1°46'33
	7250 Aug 18 11:38	0°♄		minimum elong	7253 Jan 12 04:58	23°♄41'19	1°45'14
				min. Earth dist.	7253 Jan 12 16:05	23°♄24'11	0.27449 AU
superior conj	7250 Aug 24 05:38	7°♄05'36	0°45'43	morning rise	7253 Jan 18 08:36	20°♄03'44	
minimum elong	7250 Aug 23 21:09	6°♄39'25	0°45'20	asc. node	7253 Jan 19 01:59	19°♄40'42	
max. Earth dist.	7250 Aug 25 06:28	8°♄22'07	1.73197 AU	direct	7253 Feb 02 00:30	15°♄49'04	
	7250 Sep 11 19:40	0°♅		greatest brilliancy	7253 Feb 12 20:17	18°♄01'30	-4.9m
evening rise	7250 Sep 29 15:28	21°♅56'41			7253 Mar 04 02:53	0°♄	
	7250 Oct 06 04:42	0°♄		morning max el	7253 Mar 24 14:29	18°♄51'03	46°56'05
	7250 Oct 30 15:25	0°♁			7253 Apr 04 07:10	0°♄	
desc. node	7250 Nov 23 23:07	29°♁43'17			7253 May 01 01:37	0°♅	
	7250 Nov 24 04:36	0°♄		desc. node	7253 May 10 19:02	11°♅21'19	
	7250 Dec 18 20:41	0°♄			7253 May 26 12:04	0°♄	
	7251 Jan 12 16:21	0°♄			7253 Jun 20 09:23	0°♅	
	7251 Feb 06 18:51	0°♅			7253 Jul 15 01:29	0°♄	
	7251 Mar 04 14:10	0°♄			7253 Aug 08 15:37	0°♅	
asc. node	7251 Mar 16 23:16	13°♄48'22		asc. node	7253 Aug 31 18:18	28°♅15'44	
evening max el	7251 Mar 31 22:54	29°♄37'11	47°01'30		7253 Sep 02 04:21	0°♄	
	7251 Apr 01 07:56	0°♅		morning set	7253 Sep 24 16:56	27°♄37'53	
	7251 May 09 12:50	0°♄			7253 Sep 26 15:12	0°♅	
greatest brilliancy	7251 May 11 08:54	0°♄43'49	-4.9m		7253 Oct 20 23:57	0°♄	
retrograde	7251 May 21 13:57	2°♄42'26		max. Earth dist.	7253 Oct 29 22:36	11°♄01'55	1.73201 AU
	7251 Jun 02 03:04	30°♄					
evening set	7251 Jun 06 19:56	27°♄33'16		superior conj	7253 Oct 31 05:00	12°♄35'43	1°25'06
inferior conj	7251 Jun 11 12:21	24°♄43'26	5°51'31	minimum elong	7253 Oct 31 07:24	12°♄43'09	1°25'08
minimum elong	7251 Jun 11 22:56	24°♄27'04	5°48'52		7253 Nov 14 07:11	0°♁	
min. Earth dist.	7251 Jun 11 11:30	24°♄44'45	0.27524 AU	evening rise	7253 Dec 07 08:40	28°♁30'15	
morning rise	7251 Jun 17 02:12	21°♄23'45			7253 Dec 08 13:41	0°♄	
direct	7251 Jul 02 07:59	16°♄50'31		desc. node	7253 Dec 21 11:03	15°♄56'37	
desc. node	7251 Jul 06 16:40	17°♄12'33			7254 Jan 01 19:44	0°♄	
greatest brilliancy	7251 Jul 12 04:30	18°♄37'58	-4.8m		7254 Jan 26 01:18	0°♄	
	7251 Jul 31 16:20	0°♄			7254 Feb 19 07:00	0°♅	
morning max el	7251 Aug 20 14:37	17°♄29'23	45°58'17		7254 Mar 15 15:18	0°♄	
	7251 Sep 02 02:25	0°♅			7254 Apr 09 07:20	0°♅	
	7251 Sep 29 19:38	0°♄		asc. node	7254 Apr 13 10:49	4°♄58'38	
	7251 Oct 25 23:33	0°♅			7254 May 04 16:16	0°♄	
asc. node	7251 Oct 27 16:26	1°♅59'37			7254 May 31 14:12	0°♅	
	7251 Nov 20 06:50	0°♄		evening max el	7254 Jun 11 17:31	11°♅27'57	46°21'25
	7251 Dec 15 00:44	0°♁			7254 Jul 02 09:20	0°♄	
	7252 Jan 08 09:55	0°♄		greatest brilliancy	7254 Jul 20 07:29	10°♄49'23	-4.8m
	7252 Feb 01 13:32	0°♄		retrograde	7254 Jul 31 11:35	13°♄05'46	
morning set	7252 Feb 15 14:39	17°♄32'28		desc. node	7254 Aug 03 04:27	12°♄57'01	
desc. node	7252 Feb 16 08:54	18°♄29'33		evening set	7254 Aug 15 18:47	8°♄31'52	
	7252 Feb 25 13:26	0°♄		min. Earth dist.	7254 Aug 21 05:02	5°♄16'05	0.28628 AU
	7252 Mar 20 10:52	0°♅		inferior conj	7254 Aug 21 20:59	4°♄51'07	-4°20'26
max. Earth dist.	7252 Mar 27 00:42	8°♅16'20	1.71193 AU	minimum elong	7254 Aug 21 12:26	5°♄04'31	4°18'15
				morning rise	7254 Aug 27 06:40	1°♄35'05	
superior conj	7252 Mar 27 12:01	8°♅51'55	-1°18'41		7254 Aug 30 06:46	30°♄	
minimum elong	7252 Mar 27 02:23	8°♅21'38	1°18'29	direct	7254 Sep 12 06:31	26°♅43'24	
	7252 Apr 13 07:14	0°♄		greatest brilliancy	7254 Sep 22 00:25	28°♅26'39	-4.7m
evening rise	7252 May 07 04:25	29°♄59'37			7254 Sep 25 22:51	0°♄	
	7252 May 07 04:33	0°♅		morning max el	7254 Oct 30 22:57	26°♄27'40	45°42'13
	7252 May 31 04:56	0°♄			7254 Nov 03 14:27	0°♅	
asc. node	7252 Jun 08 08:29	10°♄07'27		asc. node	7254 Nov 24 04:25	21°♅23'51	
	7252 Jun 24 10:14	0°♅			7254 Dec 01 23:56	0°♄	
	7252 Jul 18 22:08	0°♄			7254 Dec 28 02:54	0°♁	
	7252 Aug 12 19:17	0°♅			7255 Jan 22 04:51	0°♄	
	7252 Sep 07 06:55	0°♄			7255 Feb 15 17:23	0°♄	
desc. node	7252 Sep 28 01:38	23°♄37'53			7255 Mar 11 22:13	0°♄	

desc. node	7255 Mar 15 20:55	4° X 54'59	evening set	7257 Oct 27 08:47	14° M 06'34
	7255 Apr 04 22:32	0° Y	inferior conj	7257 Oct 30 15:12	12° M 05'09 -8°34'20
	7255 Apr 28 20:43	0° B	minimum elong	7257 Oct 30 17:29	12° M 01'35 8°34'11
morning set	7255 May 03 01:57	5° B 17'32	min. Earth dist.	7257 Oct 31 00:29	11° M 50'35 0.29062 AU
	7255 May 22 18:56	0° II	morning rise	7257 Nov 03 02:03	9° M 56'36
			direct	7257 Nov 21 03:29	3° M 46'19
superior conj	7255 Jun 11 20:49	25° II 06'15 -0°55'55	greatest brilliancy	7257 Dec 02 00:35	5° M 55'19 -4.8m
minimum elong	7255 Jun 12 07:40	25° II 40'05 0°55'34	asc. node	7257 Dec 21 16:12	17° M 54'10
max. Earth dist.	7255 Jun 15 14:31	29° II 45'58 1.71993 AU		7258 Jan 04 11:28	0° X
	7255 Jun 15 19:01	0° B	morning max el	7258 Jan 09 20:05	5° X 11'49 46°14'37
asc. node	7255 Jul 06 20:24	26° B 11'41		7258 Feb 02 05:57	0° B
	7255 Jul 09 22:03	0° Q		7258 Feb 28 07:31	0° \approx
evening rise	7255 Jul 20 19:41	13° Q 29'54		7258 Mar 25 07:50	0° X
	7255 Aug 03 04:28	0° M	desc. node	7258 Apr 12 09:00	22° X 03'22
	7255 Aug 27 14:46	0° B		7258 Apr 18 19:54	0° Y
	7255 Sep 21 06:08	0° M		7258 May 13 01:52	0° B
	7255 Oct 16 04:41	0° X		7258 Jun 06 05:35	0° II
desc. node	7255 Oct 26 13:21	12° X 19'46		7258 Jun 30 09:38	0° B
	7255 Nov 10 13:20	0° B	morning set	7258 Jul 15 03:54	18° B 17'04
	7255 Dec 06 13:06	0° \approx		7258 Jul 24 15:10	0° Q
	7256 Jan 02 18:08	0° X	asc. node	7258 Aug 03 08:13	11° Q 59'56
evening max el	7256 Jan 15 17:56	13° X 22'18 46°41'12		7258 Aug 17 22:10	0° M
	7256 Feb 02 20:04	0° Y			
asc. node	7256 Feb 16 13:40	9° Y 51'04	superior conj	7258 Aug 21 22:29	4° M 57'07 0°42'52
greatest brilliancy	7256 Feb 25 03:00	13° Y 57'09 -4.9m	minimum elong	7258 Aug 21 14:18	4° M 31'55 0°42'29
retrograde	7256 Mar 05 23:28	15° Y 47'15	max. Earth dist.	7258 Aug 23 01:40	6° M 20'57 1.73176 AU
evening set	7256 Mar 22 14:46	10° Y 25'46		7258 Sep 11 06:11	0° B
inferior conj	7256 Mar 26 14:52	8° Y 00'33 8°12'57	evening rise	7258 Sep 27 09:22	19° B 51'45
minimum elong	7256 Mar 26 05:49	8° Y 14'28 8°11'38		7258 Oct 05 15:16	0° M
min. Earth dist.	7256 Mar 26 06:43	8° Y 13'05 0.26960 AU		7258 Oct 30 02:11	0° X
morning rise	7256 Mar 29 20:54	6° Y 01'47	desc. node	7258 Nov 23 01:14	29° X 15'54
direct	7256 Apr 16 04:23	0° Y 15'24		7258 Nov 23 15:43	0° B
greatest brilliancy	7256 Apr 25 16:50	1° Y 57'48 -4.9m		7258 Dec 18 08:19	0° \approx
	7256 Jun 02 16:54	0° B		7259 Jan 12 04:47	0° X
morning max el	7256 Jun 05 10:03	2° B 40'59 46°45'07		7259 Feb 06 08:34	0° Y
desc. node	7256 Jun 07 07:00	4° B 33'46		7259 Mar 04 06:20	0° B
	7256 Jul 01 03:41	0° II	asc. node	7259 Mar 16 01:09	13° B 03'50
	7256 Jul 27 12:32	0° B	evening max el	7259 Mar 29 13:34	27° B 16'49 47°01'59
	7256 Aug 22 02:37	0° Q		7259 Apr 01 06:44	0° II
	7256 Sep 16 06:40	0° M	greatest brilliancy	7259 May 08 23:14	28° II 22'31 -4.9m
asc. node	7256 Sep 28 06:20	14° M 25'18		7259 May 14 23:20	0° B
	7256 Oct 11 03:08	0° B	retrograde	7259 May 19 04:45	0° B 21'15
	7256 Nov 04 17:05	0° M		7259 May 23 08:08	30° R II
	7256 Nov 29 01:49	0° X	evening set	7259 Jun 04 13:01	25° II 07'29
morning set	7256 Dec 02 05:58	3° X 55'25	inferior conj	7259 Jun 09 02:04	22° II 22'32 6°09'04
	7256 Dec 23 06:52	0° B	minimum elong	7259 Jun 09 12:50	22° II 05'55 6°06'27
max. Earth dist.	7257 Jan 06 04:39	17° B 17'50 1.72176 AU	min. Earth dist.	7259 Jun 09 01:09	22° II 23'58 0.27498 AU
			morning rise	7259 Jun 14 12:56	19° II 07'23
superior conj	7257 Jan 09 03:04	20° B 57'05 0°21'11	direct	7259 Jun 29 21:47	14° II 30'04
minimum elong	7257 Jan 09 08:01	21° B 12'30 0°21'01	desc. node	7259 Jul 05 18:39	15° II 09'42
	7257 Jan 16 09:20	0° \approx	greatest brilliancy	7259 Jul 09 17:05	16° II 17'02 -4.8m
desc. node	7257 Jan 17 22:59	1° \approx 57'20		7259 Aug 01 04:34	0° B
	7257 Feb 09 09:47	0° X	morning max el	7259 Aug 18 06:04	15° B 16'02 45°59'37
evening rise	7257 Feb 17 17:02	10° X 23'19		7259 Sep 01 20:55	0° Q
	7257 Mar 05 08:46	0° Y		7259 Sep 29 09:56	0° M
	7257 Mar 29 07:39	0° B		7259 Oct 25 12:02	0° B
	7257 Apr 22 08:57	0° II	asc. node	7259 Oct 26 18:27	1° B 29'05
asc. node	7257 May 10 22:40	22° II 58'10		7259 Nov 19 18:25	0° M
	7257 May 16 16:04	0° B		7259 Dec 14 11:49	0° X
	7257 Jun 10 09:16	0° Q		7260 Jan 07 20:45	0° B
	7257 Jul 05 19:22	0° M		7260 Feb 01 00:16	0° \approx
	7257 Aug 01 13:40	0° B	morning set	7260 Feb 13 02:48	15° \approx 06'58
evening max el	7257 Aug 21 05:55	20° B 12'01 45°41'28	desc. node	7260 Feb 15 10:49	18° \approx 02'07
desc. node	7257 Aug 30 16:06	28° B 56'35		7260 Feb 25 00:08	0° X
	7257 Aug 31 20:57	0° M		7260 Mar 19 21:34	0° Y
greatest brilliancy	7257 Sep 29 02:33	18° M 29'07 -4.7m			
retrograde	7257 Oct 09 03:10	20° M 18'41	superior conj	7260 Mar 24 22:51	6° Y 21'20 -1°16'51

minimum elong	7260 Mar 24 12:37	5° Υ 49'09	1°16'37	greatest brilliancy	7262 Sep 19 15:52	26° Ω 16'10	-4.7m
max. Earth dist.	7260 Mar 24 09:15	5° Υ 38'34	1.71202 AU		7262 Sep 27 22:16	0° \mathbb{M}	
	7260 Apr 12 17:57	0° \mathcal{B}		morning max el	7262 Oct 28 13:00	24° \mathbb{M} 13'24	45°41'54
evening rise	7260 May 04 15:14	27° \mathcal{B} 29'18			7262 Nov 03 10:50	0° \mathcal{A}	
	7260 May 06 15:19	0° \mathbb{I}		asc. node	7262 Nov 23 06:29	20° \mathcal{A} 46'07	
	7260 May 30 15:48	0° \mathcal{E}			7262 Dec 01 14:48	0° \mathbb{M}	
asc. node	7260 Jun 07 10:30	9° \mathcal{E} 39'58			7262 Dec 27 15:47	0° \mathcal{X}	
	7260 Jun 23 21:15	0° Ω			7263 Jan 21 16:49	0° \mathcal{Z}	
	7260 Jul 18 09:26	0° \mathbb{M}			7263 Feb 15 04:51	0° \approx	
	7260 Aug 12 07:10	0° \mathcal{A}			7263 Mar 11 09:23	0° \mathcal{H}	
	7260 Sep 06 19:59	0° \mathbb{M}		desc. node	7263 Mar 14 22:54	4° \mathcal{H} 26'27	
desc. node	7260 Sep 27 03:38	23° \mathbb{M} 02'11			7263 Apr 04 09:31	0° Υ	
	7260 Oct 03 11:27	0° \mathcal{X}			7263 Apr 28 07:34	0° \mathcal{B}	
evening max el	7260 Oct 31 20:34	29° \mathcal{X} 18'34	45°51'09	morning set	7263 Apr 30 13:22	2° \mathcal{B} 48'49	
	7260 Nov 01 13:56	0° \mathcal{Z}			7263 May 22 05:41	0° \mathbb{I}	
greatest brilliancy	7260 Dec 10 05:57	27° \mathcal{Z} 40'33	-4.8m				
retrograde	7260 Dec 19 18:08	29° \mathcal{Z} 19'10		superior conj	7263 Jun 09 10:09	22° \mathbb{I} 44'49	-0°58'43
evening set	7261 Jan 03 16:29	24° \mathcal{Z} 59'35		minimum elong	7263 Jun 09 21:12	23° \mathbb{I} 19'17	0°58'24
inferior conj	7261 Jan 09 14:59	21° \mathcal{Z} 28'41	-2°08'40	max. Earth dist.	7263 Jun 13 02:46	27° \mathbb{I} 21'16	1.71944 AU
minimum elong	7261 Jan 09 19:46	21° \mathcal{Z} 21'18	2°07'06		7263 Jun 15 05:41	0° \mathcal{E}	
min. Earth dist.	7261 Jan 10 06:59	21° \mathcal{Z} 03'57	0.27498 AU	asc. node	7263 Jul 05 22:17	25° \mathcal{E} 44'28	
morning rise	7261 Jan 15 22:24	17° \mathcal{Z} 44'41			7263 Jul 09 08:42	0° Ω	
asc. node	7261 Jan 18 03:53	16° \mathcal{Z} 36'24		evening rise	7263 Jul 18 11:14	11° Ω 16'31	
direct	7261 Jan 30 15:11	13° \mathcal{Z} 29'37			7263 Aug 02 15:12	0° \mathbb{M}	
greatest brilliancy	7261 Feb 10 11:27	15° \mathcal{Z} 42'09	-4.9m		7263 Aug 27 01:41	0° \mathcal{A}	
	7261 Mar 04 13:24	0° \approx			7263 Sep 20 17:24	0° \mathbb{M}	
morning max el	7261 Mar 22 04:16	16° \approx 29'06	46°55'16		7263 Oct 15 16:34	0° \mathcal{X}	
	7261 Apr 04 01:44	0° \mathcal{H}		desc. node	7263 Oct 25 15:26	11° \mathcal{X} 49'41	
	7261 Apr 30 16:19	0° Υ			7263 Nov 10 02:17	0° \mathcal{Z}	
desc. node	7261 May 09 21:10	10° Υ 46'30			7263 Dec 06 04:01	0° \approx	
	7261 May 26 01:05	0° \mathcal{B}			7264 Jan 02 13:24	0° \mathcal{H}	
	7261 Jun 19 21:28	0° \mathbb{I}		evening max el	7264 Jan 13 06:32	10° \mathcal{H} 57'10	46°39'33
	7261 Jul 14 12:58	0° \mathcal{E}			7264 Feb 03 09:20	0° Υ	
	7261 Aug 08 02:39	0° Ω		asc. node	7264 Feb 15 15:39	8° Υ 17'28	
asc. node	7261 Aug 30 20:15	27° Ω 48'53		greatest brilliancy	7264 Feb 22 16:01	11° Υ 30'40	-4.9m
	7261 Sep 01 15:04	0° \mathbb{M}		retrograde	7264 Mar 03 12:00	13° Υ 20'46	
morning set	7261 Sep 22 10:10	25° \mathbb{M} 31'03		evening set	7264 Mar 19 22:55	8° Υ 05'45	
	7261 Sep 26 01:43	0° \mathcal{A}		inferior conj	7264 Mar 24 03:34	5° Υ 34'17	8°01'33
	7261 Oct 20 10:25	0° \mathbb{M}		minimum elong	7264 Mar 23 17:58	5° Υ 49'02	8°00'03
max. Earth dist.	7261 Oct 27 16:09	8° \mathbb{M} 55'42	1.73221 AU	min. Earth dist.	7264 Mar 23 19:43	5° Υ 46'21	0.26947 AU
				morning rise	7264 Mar 27 13:01	3° Υ 30'39	
superior conj	7261 Oct 28 22:32	10° \mathbb{M} 29'26	1°25'27		7264 Apr 03 08:31	30° \mathcal{R} \mathcal{H}	
minimum elong	7261 Oct 29 00:14	10° \mathbb{M} 34'40	1°25'30	direct	7264 Apr 13 16:37	27° \mathcal{H} 48'49	
	7261 Nov 13 17:43	0° \mathcal{X}		greatest brilliancy	7264 Apr 23 06:35	29° \mathcal{H} 32'38	-4.9m
evening rise	7261 Dec 05 00:24	26° \mathcal{X} 17'36			7264 Apr 24 12:30	0° Υ	
	7261 Dec 08 00:22	0° \mathcal{Z}			7264 Jun 02 16:25	0° \mathcal{B}	
desc. node	7261 Dec 20 13:02	15° \mathcal{Z} 29'27		morning max el	7264 Jun 02 23:26	0° \mathcal{B} 17'29	46°46'39
	7262 Jan 01 06:37	0° \approx		desc. node	7264 Jun 06 08:56	3° \mathcal{B} 43'07	
	7262 Jan 25 12:26	0° \mathcal{H}			7264 Jun 30 20:03	0° \mathbb{I}	
	7262 Feb 18 18:30	0° Υ			7264 Jul 27 02:15	0° \mathcal{E}	
	7262 Mar 15 03:20	0° \mathcal{B}			7264 Aug 21 14:59	0° Ω	
	7262 Apr 08 20:13	0° \mathbb{I}		asc. node	7264 Sep 15 18:16	0° \mathbb{M}	
asc. node	7262 Apr 12 12:54	4° \mathbb{I} 25'45			7264 Sep 27 08:22	13° \mathbb{M} 57'10	
	7262 May 04 06:49	0° \mathcal{E}			7264 Oct 10 14:17	0° \mathcal{A}	
	7262 May 31 08:49	0° Ω			7264 Nov 04 03:58	0° \mathbb{M}	
evening max el	7262 Jun 09 08:28	9° Ω 11'55	46°23'01		7264 Nov 28 12:34	0° \mathcal{X}	
	7262 Jul 02 23:46	0° \mathbb{M}		morning set	7264 Nov 29 22:30	1° \mathcal{X} 44'52	
greatest brilliancy	7262 Jul 18 00:31	8° \mathbb{M} 38'38	-4.8m		7264 Dec 22 17:36	0° \mathcal{Z}	
retrograde	7262 Jul 29 03:11	10° \mathbb{M} 54'00		max. Earth dist.	7265 Jan 03 21:57	15° \mathcal{Z} 08'44	1.72221 AU
desc. node	7262 Aug 02 06:24	10° \mathbb{M} 33'30					
evening set	7262 Aug 13 09:08	6° \mathbb{M} 22'45		superior conj	7265 Jan 06 17:06	18° \mathcal{Z} 37'43	0°24'40
min. Earth dist.	7262 Aug 18 21:19	3° \mathbb{M} 04'23	0.28583 AU	minimum elong	7265 Jan 06 22:46	18° \mathcal{Z} 55'23	0°24'28
inferior conj	7262 Aug 19 12:48	2° \mathbb{M} 40'06	-4°02'32		7265 Jan 15 20:08	0° \approx	
minimum elong	7262 Aug 19 04:41	2° \mathbb{M} 52'51	4°00'25	desc. node	7265 Jan 17 00:50	1° \approx 29'27	
	7262 Aug 23 21:21	30° \mathcal{R} Ω			7265 Feb 08 20:43	0° \mathcal{H}	
morning rise	7262 Aug 25 00:46	29° Ω 20'37		evening rise	7265 Feb 15 05:28	7° \mathcal{H} 57'45	
direct	7262 Sep 09 21:33	24° Ω 33'04			7265 Mar 04 19:51	0° Υ	

	7265 Mar 28 18:55	0°♄			7267 Nov 19 06:16	0°♍		
	7265 Apr 21 20:26	0°♅			7267 Dec 13 23:14	0°♁		
asc. node	7265 May 10 00:41	22°♅28'12			7268 Jan 07 07:58	0°♄		
	7265 May 16 03:55	0°♄			7268 Jan 31 11:24	0°♁		
	7265 Jun 09 21:47	0°♅	morning set		7268 Feb 10 14:53	12°♁40'00		
	7265 Jul 05 09:13	0°♄	desc. node		7268 Feb 14 12:53	17°♁33'51		
	7265 Aug 01 06:38	0°♅			7268 Feb 24 11:14	0°♁		
evening max el	7265 Aug 18 21:47	18°♅01'20 45°42'11			7268 Mar 19 08:38	0°♄		
desc. node	7265 Aug 29 18:06	28°♅01'03	max. Earth dist.		7268 Mar 21 15:23	2°♄52'05 1.71209 AU		
	7265 Sep 01 01:32	0°♍						
greatest brilliancy	7265 Sep 26 16:19	16°♍17'34 -4.7m	superior conj		7268 Mar 22 09:33	3°♄49'13 -1°14'51		
retrograde	7265 Oct 06 19:39	18°♍09'16	minimum elong		7268 Mar 21 22:49	3°♄15'29 1°14'35		
evening set	7265 Oct 25 00:52	11°♍56'29			7268 Apr 12 05:02	0°♄		
inferior conj	7265 Oct 28 07:23	9°♍54'56 -8°35'54	evening rise		7268 May 02 01:50	24°♄57'08		
minimum elong	7265 Oct 28 08:54	9°♍52'33 8°35'49			7268 May 06 02:28	0°♅		
min. Earth dist.	7265 Oct 28 15:09	9°♍42'45 0.29090 AU			7268 May 30 03:03	0°♄		
morning rise	7265 Oct 31 16:50	7°♍48'40	asc. node		7268 Jun 06 12:24	9°♄10'50		
direct	7265 Nov 18 20:12	1°♍35'57			7268 Jun 23 08:41	0°♅		
greatest brilliancy	7265 Nov 29 15:49	3°♍43'55 -4.8m			7268 Jul 17 21:11	0°♄		
asc. node	7265 Dec 20 18:04	16°♍49'56			7268 Aug 11 19:32	0°♅		
	7266 Jan 04 11:01	0°♁			7268 Sep 06 09:34	0°♍		
morning max el	7266 Jan 07 12:40	3°♁00'06 46°12'59	desc. node		7268 Sep 26 05:45	22°♍25'28		
	7266 Feb 01 22:08	0°♄			7268 Oct 03 03:40	0°♁		
	7266 Feb 27 21:17	0°♁	evening max el		7268 Oct 29 10:46	27°♁02'15 45°49'50		
	7266 Mar 24 20:29	0°♁			7268 Nov 01 13:59	0°♄		
desc. node	7266 Apr 11 11:03	21°♁32'18	greatest brilliancy		7268 Dec 07 20:25	25°♄22'29 -4.8m		
	7266 Apr 18 07:55	0°♄	retrograde		7268 Dec 17 06:56	26°♄59'51		
	7266 May 12 13:28	0°♄	evening set		7269 Jan 01 08:23	22°♄37'29		
	7266 Jun 05 16:53	0°♅	inferior conj		7269 Jan 07 05:02	19°♄08'57 -2°30'20		
	7266 Jun 29 20:41	0°♄	minimum elong		7269 Jan 07 10:33	19°♄00'24 2°28'35		
morning set	7266 Jul 12 19:25	16°♄02'40	min. Earth dist.		7269 Jan 07 22:10	18°♄42'27 0.27554 AU		
	7266 Jul 24 02:02	0°♅	morning rise		7269 Jan 13 12:01	15°♄24'56		
asc. node	7266 Aug 02 10:12	11°♅32'42	asc. node		7269 Jan 17 05:54	13°♄34'48		
	7266 Aug 17 08:55	0°♄	direct		7269 Jan 28 05:32	11°♄08'58		
			greatest brilliancy		7269 Feb 08 03:17	13°♄22'21 -4.9m		
superior conj	7266 Aug 19 15:27	2°♄48'16 0°39'58			7269 Mar 04 21:45	0°♁		
minimum elong	7266 Aug 19 07:40	2°♄24'12 0°39'35	morning max el		7269 Mar 19 17:29	14°♁04'08 46°54'25		
max. Earth dist.	7266 Aug 20 23:07	4°♄25'55 1.73151 AU			7269 Apr 03 20:22	0°♁		
	7266 Sep 10 16:55	0°♅			7269 Apr 30 07:18	0°♄		
evening rise	7266 Sep 25 03:29	17°♅46'42	desc. node		7269 May 08 23:07	10°♄10'02		
	7266 Oct 05 02:07	0°♍			7269 May 25 14:25	0°♄		
	7266 Oct 29 13:15	0°♁			7269 Jun 19 09:53	0°♅		
desc. node	7266 Nov 22 03:10	28°♁46'54			7269 Jul 14 00:46	0°♄		
	7266 Nov 23 03:11	0°♄			7269 Aug 07 14:02	0°♅		
	7266 Dec 17 20:21	0°♁	asc. node		7269 Aug 29 22:18	27°♅21'10		
	7267 Jan 11 17:38	0°♁			7269 Sep 01 02:09	0°♄		
	7267 Feb 05 22:44	0°♄	morning set		7269 Sep 20 03:27	23°♄23'05		
	7267 Mar 03 23:07	0°♄			7269 Sep 25 12:37	0°♅		
asc. node	7267 Mar 15 03:15	12°♄18'24			7269 Oct 19 21:15	0°♍		
evening max el	7267 Mar 27 04:47	24°♄56'54 47°02'21	max. Earth dist.		7269 Oct 25 09:26	6°♍47'37 1.73237 AU		
	7267 Apr 01 06:56	0°♅						
greatest brilliancy	7267 May 06 13:43	26°♅00'25 -4.9m	superior conj		7269 Oct 26 16:20	8°♍22'54 1°25'41		
retrograde	7267 May 16 19:20	27°♅58'45	minimum elong		7269 Oct 26 17:20	8°♍25'58 1°25'44		
evening set	7267 Jun 02 06:12	22°♅40'32			7269 Nov 13 04:35	0°♁		
inferior conj	7267 Jun 06 15:47	20°♅00'25 6°25'59	evening rise		7269 Dec 02 16:29	24°♁05'06		
minimum elong	7267 Jun 07 02:37	19°♅43'40 6°23'28			7269 Dec 07 11:21	0°♄		
min. Earth dist.	7267 Jun 06 14:43	20°♅02'04 0.27474 AU	desc. node		7269 Dec 19 14:58	15°♄01'11		
morning rise	7267 Jun 11 23:22	16°♅49'56			7269 Dec 31 17:49	0°♁		
direct	7267 Jun 27 11:46	12°♅08'32			7270 Jan 24 23:57	0°♁		
desc. node	7267 Jul 04 20:35	13°♅10'25			7270 Feb 18 06:25	0°♄		
greatest brilliancy	7267 Jul 07 05:30	13°♅54'30 -4.8m			7270 Mar 14 15:50	0°♄		
	7267 Aug 01 14:06	0°♄			7270 Apr 08 09:39	0°♅		
morning max el	7267 Aug 15 21:02	13°♄00'19 46°01'01	asc. node		7270 Apr 11 14:52	3°♅50'56		
	7267 Sep 01 15:20	0°♅			7270 May 03 22:01	0°♄		
	7267 Sep 29 00:24	0°♄			7270 May 31 04:27	0°♅		
	7267 Oct 25 00:47	0°♅	evening max el		7270 Jun 06 22:32	6°♅52'27 46°24'48		
asc. node	7267 Oct 25 20:29	0°♅57'50			7270 Jul 03 20:00	0°♄		

greatest brilliancy	7270 Jul 15 17:07	6° \mathbb{M} 25'57	-4.8m		7272 Dec 22 04:24	0° \mathcal{Z}	
retrograde	7270 Jul 26 18:39	8° \mathbb{M} 40'58		max. Earth dist.	7273 Jan 01 14:33	12° \mathcal{Z} 57'20	1.72260 AU
desc. node	7270 Aug 01 08:27	8° \mathbb{M} 03'34					
evening set	7270 Aug 10 23:30	4° \mathbb{M} 11'43		superior conj	7273 Jan 04 07:22	16° \mathcal{Z} 19'01	0°28'06
min. Earth dist.	7270 Aug 16 13:34	0° \mathbb{M} 51'02	0.28540 AU	minimum elong	7273 Jan 04 13:43	16° \mathcal{Z} 38'46	0°27'53
inferior conj	7270 Aug 17 04:31	0° \mathbb{M} 27'38	-3°44'13		7273 Jan 15 06:59	0° \approx	
minimum elong	7270 Aug 16 20:51	0° \mathbb{M} 39'38	3°42'10	desc. node	7273 Jan 16 02:56	1° \approx 02'12	
	7270 Aug 17 22:10	30° \mathcal{R} \mathcal{L}			7273 Feb 08 07:39	0° \mathcal{H}	
morning rise	7270 Aug 22 18:41	27° \mathcal{L} 04'57		evening rise	7273 Feb 12 18:13	5° \mathcal{H} 33'17	
direct	7270 Sep 07 12:15	22° \mathcal{L} 21'01			7273 Mar 04 06:54	0° \mathcal{Y}	
greatest brilliancy	7270 Sep 17 07:44	24° \mathcal{L} 04'47	-4.7m		7273 Mar 28 06:07	0° \mathcal{B}	
	7270 Sep 29 06:45	0° \mathbb{M}			7273 Apr 21 07:54	0° \mathbb{I}	
morning max el	7270 Oct 26 03:29	21° \mathbb{M} 59'04	45°41'49	asc. node	7273 May 09 02:34	21° \mathbb{I} 57'49	
	7270 Nov 03 06:58	0° \mathcal{L}			7273 May 15 15:48	0° \mathcal{G}	
asc. node	7270 Nov 22 08:19	20° \mathcal{L} 07'11			7273 Jun 09 10:25	0° \mathcal{L}	
	7270 Dec 01 05:48	0° \mathbb{M}			7273 Jul 04 23:16	0° \mathbb{M}	
	7270 Dec 27 04:52	0° \mathcal{X}			7273 Aug 01 00:02	0° \mathcal{L}	
	7271 Jan 21 04:58	0° \mathcal{Z}		evening max el	7273 Aug 16 14:03	15° \mathcal{L} 51'27	45°42'59
	7271 Feb 14 16:31	0° \approx		desc. node	7273 Aug 28 20:10	27° \mathcal{L} 04'18	
	7271 Mar 10 20:47	0° \mathcal{H}			7273 Sep 01 08:19	0° \mathbb{M}	
desc. node	7271 Mar 14 00:58	3° \mathcal{H} 57'24		greatest brilliancy	7273 Sep 24 06:16	14° \mathbb{M} 06'05	-4.7m
	7271 Apr 03 20:47	0° \mathcal{Y}		retrograde	7273 Oct 04 11:56	15° \mathbb{M} 59'26	
	7271 Apr 27 18:43	0° \mathcal{B}		evening set	7273 Oct 22 16:36	9° \mathbb{M} 46'44	
morning set	7271 Apr 28 00:12	0° \mathcal{B} 17'12		inferior conj	7273 Oct 25 23:26	7° \mathbb{M} 44'30	-8°36'52
	7271 May 21 16:44	0° \mathbb{I}		minimum elong	7273 Oct 26 00:10	7° \mathbb{M} 43'20	8°36'49
				min. Earth dist.	7273 Oct 26 05:33	7° \mathbb{M} 34'54	0.29113 AU
superior conj	7271 Jun 06 22:55	20° \mathbb{I} 20'31	-1°01'28	morning rise	7273 Oct 29 07:43	5° \mathbb{M} 40'01	
minimum elong	7271 Jun 07 10:06	20° \mathbb{I} 55'26	1°01'09		7273 Nov 11 04:48	30° \mathcal{R} \mathcal{L}	
max. Earth dist.	7271 Jun 10 12:21	24° \mathbb{I} 47'11	1.71895 AU	direct	7273 Nov 16 13:01	29° \mathcal{L} 25'35	
	7271 Jun 14 16:39	0° \mathcal{G}			7273 Nov 22 00:36	0° \mathbb{M}	
asc. node	7271 Jul 05 00:16	25° \mathcal{G} 16'41		greatest brilliancy	7273 Nov 27 06:25	1° \mathbb{M} 31'46	-4.8m
	7271 Jul 08 19:38	0° \mathcal{L}		asc. node	7273 Dec 19 20:09	15° \mathbb{M} 47'45	
evening rise	7271 Jul 16 02:21	9° \mathcal{L} 00'54			7274 Jan 04 09:30	0° \mathcal{X}	
	7271 Aug 02 02:12	0° \mathbb{M}		morning max el	7274 Jan 05 04:47	0° \mathcal{X} 47'32	46°11'22
	7271 Aug 26 12:53	0° \mathcal{L}			7274 Feb 01 13:57	0° \mathcal{Z}	
	7271 Sep 20 04:58	0° \mathbb{M}			7274 Feb 27 10:49	0° \approx	
	7271 Oct 15 04:45	0° \mathcal{X}			7274 Mar 24 08:54	0° \mathcal{H}	
desc. node	7271 Oct 24 17:22	11° \mathcal{X} 18'15		desc. node	7274 Apr 10 12:59	21° \mathcal{H} 01'39	
	7271 Nov 09 15:32	0° \mathcal{Z}			7274 Apr 17 19:41	0° \mathcal{Y}	
	7271 Dec 05 19:18	0° \approx			7274 May 12 00:48	0° \mathcal{B}	
	7272 Jan 02 09:22	0° \mathcal{H}			7274 Jun 05 03:55	0° \mathbb{I}	
evening max el	7272 Jan 10 19:49	8° \mathcal{H} 33'47	46°38'00		7274 Jun 29 07:31	0° \mathcal{G}	
	7272 Feb 04 03:07	0° \mathcal{Y}		morning set	7274 Jul 10 10:49	13° \mathcal{G} 48'23	
asc. node	7272 Feb 14 17:41	6° \mathcal{Y} 40'24			7274 Jul 23 12:44	0° \mathcal{L}	
greatest brilliancy	7272 Feb 20 04:17	9° \mathcal{Y} 03'24	-4.9m	asc. node	7274 Aug 01 12:17	11° \mathcal{L} 06'14	
retrograde	7272 Mar 01 01:01	10° \mathcal{Y} 54'19			7274 Aug 16 19:32	0° \mathbb{M}	
evening set	7272 Mar 17 07:10	5° \mathcal{Y} 45'21					
inferior conj	7272 Mar 21 16:17	3° \mathcal{Y} 07'46	7°49'18	superior conj	7274 Aug 17 08:06	0° \mathbb{M} 38'48	0°36'59
minimum elong	7272 Mar 21 06:13	3° \mathcal{Y} 23'12	7°47'35	minimum elong	7274 Aug 17 00:44	0° \mathbb{M} 16'03	0°36'36
min. Earth dist.	7272 Mar 21 08:23	3° \mathcal{Y} 19'53	0.26940 AU	max. Earth dist.	7274 Aug 18 20:33	2° \mathbb{M} 31'14	1.73126 AU
morning rise	7272 Mar 25 05:17	0° \mathcal{Y} 59'11			7274 Sep 10 03:30	0° \mathcal{L}	
	7272 Mar 26 22:33	30° \mathcal{R} \mathcal{H}		evening rise	7274 Sep 22 21:16	15° \mathcal{L} 41'02	
direct	7272 Apr 11 05:29	25° \mathcal{H} 22'04			7274 Oct 04 12:47	0° \mathbb{M}	
greatest brilliancy	7272 Apr 20 19:58	27° \mathcal{H} 06'49	-4.9m		7274 Oct 29 00:09	0° \mathcal{X}	
	7272 Apr 27 08:18	0° \mathcal{Y}		desc. node	7274 Nov 21 05:07	28° \mathcal{X} 18'30	
morning max el	7272 May 31 13:39	27° \mathcal{Y} 55'32	46°47'53		7274 Nov 22 14:29	0° \mathcal{Z}	
	7272 Jun 02 15:10	0° \mathcal{B}			7274 Dec 17 08:14	0° \approx	
desc. node	7272 Jun 05 10:53	2° \mathcal{B} 52'47			7275 Jan 11 06:22	0° \mathcal{H}	
	7272 Jun 30 12:21	0° \mathbb{I}			7275 Feb 05 12:49	0° \mathcal{Y}	
	7272 Jul 26 16:03	0° \mathcal{G}			7275 Mar 03 15:55	0° \mathcal{B}	
	7272 Aug 21 03:27	0° \mathcal{L}		asc. node	7275 Mar 14 05:15	11° \mathcal{B} 33'03	
	7272 Sep 15 05:57	0° \mathbb{M}		evening max el	7275 Mar 24 19:45	22° \mathcal{B} 37'18	47°02'46
asc. node	7272 Sep 26 10:20	13° \mathbb{M} 28'36			7275 Apr 01 07:52	0° \mathbb{I}	
	7272 Oct 10 01:30	0° \mathcal{L}		greatest brilliancy	7275 May 04 04:46	23° \mathbb{I} 40'33	-4.9m
	7272 Nov 03 14:55	0° \mathbb{M}		retrograde	7275 May 14 09:38	25° \mathbb{I} 37'52	
morning set	7272 Nov 27 15:04	29° \mathbb{M} 34'17		evening set	7275 May 30 23:37	20° \mathbb{I} 15'27	
	7272 Nov 27 23:24	0° \mathcal{X}		inferior conj	7275 Jun 04 05:42	17° \mathbb{I} 40'10	6°42'13

minimum elong	7275 Jun 04 16:32	17° Π 23'24	6°39'47		7277 Dec 06 21:58	0° Ξ	
min. Earth dist.	7275 Jun 04 04:37	17° Π 41'50	0.27449 AU	desc. node	7277 Dec 18 17:02	14° Ξ 34'27	
morning rise	7275 Jun 09 09:47	14° Π 34'23			7277 Dec 31 04:39	0° \approx	
direct	7275 Jun 25 01:43	9° Π 48'55			7278 Jan 24 11:05	0° X	
desc. node	7275 Jul 03 22:41	11° Π 17'32			7278 Feb 17 17:59	0° Υ	
greatest brilliancy	7275 Jul 04 18:21	11° Π 33'56	-4.8m		7278 Mar 14 04:00	0° B	
	7275 Aug 01 20:27	0° E			7278 Apr 07 22:47	0° Π	
morning max el	7275 Aug 13 11:14	10° E 43'47	46°02'15	asc. node	7278 Apr 10 16:47	3° Π 16'58	
	7275 Sep 01 08:54	0° Ω			7278 May 03 13:00	0° E	
	7275 Sep 28 14:23	0° P			7278 May 31 00:11	0° Ω	
asc. node	7275 Oct 24 22:22	0° E 27'07		evening max el	7278 Jun 04 12:52	4° Ω 34'51	46°26'44
	7275 Oct 24 13:09	0° E			7278 Jul 04 22:45	0° P	
	7275 Nov 18 17:47	0° M		greatest brilliancy	7278 Jul 13 09:18	4° P 14'15	-4.8m
	7275 Dec 13 10:19	0° X		retrograde	7278 Jul 24 10:41	6° P 29'46	
	7276 Jan 06 18:50	0° Ξ		desc. node	7278 Jul 31 10:26	5° P 30'40	
	7276 Jan 30 22:11	0° \approx		evening set	7278 Aug 08 14:09	2° P 02'02	
morning set	7276 Feb 08 02:57	10° \approx 14'08			7278 Aug 12 01:47	30° R Ω	
desc. node	7276 Feb 13 14:52	17° \approx 06'25		min. Earth dist.	7278 Aug 14 05:40	28° Ω 39'44	0.28495 AU
	7276 Feb 23 22:00	0° X		inferior conj	7278 Aug 14 20:19	28° Ω 16'50	-3°25'32
max. Earth dist.	7276 Mar 18 17:55	29° X 55'25	1.71219 AU	minimum elong	7278 Aug 14 13:10	28° Ω 28'01	3°23'35
	7276 Mar 18 19:23	0° Υ		morning rise	7278 Aug 20 12:38	24° Ω 51'23	
				direct	7278 Sep 05 03:07	20° Ω 10'40	
superior conj	7276 Mar 19 20:23	1° Υ 18'34	-1°12'43	greatest brilliancy	7278 Sep 14 23:31	21° Ω 55'13	-4.7m
minimum elong	7276 Mar 19 09:14	0° Υ 43'32	1°12'24		7278 Sep 30 05:02	0° P	
	7276 Apr 11 15:47	0° B		morning max el	7278 Oct 23 18:48	19° P 48'27	45°41'39
evening rise	7276 Apr 29 12:34	22° B 26'30			7278 Nov 03 01:53	0° E	
	7276 May 05 13:14	0° Π		asc. node	7278 Nov 21 10:24	19° E 30'43	
	7276 May 29 13:53	0° E			7278 Nov 30 20:09	0° M	
asc. node	7276 Jun 05 14:26	8° E 43'29			7278 Dec 26 17:28	0° X	
	7276 Jun 22 19:40	0° Ω			7279 Jan 20 16:44	0° Ξ	
	7276 Jul 17 08:30	0° P			7279 Feb 14 03:50	0° \approx	
	7276 Aug 11 07:31	0° E			7279 Mar 10 07:50	0° X	
	7276 Sep 05 22:51	0° M		desc. node	7279 Mar 13 02:52	3° X 28'57	
desc. node	7276 Sep 25 07:38	21° M 48'58			7279 Apr 03 07:40	0° Υ	
	7276 Oct 02 19:47	0° X		morning set	7279 Apr 25 10:52	27° Υ 46'07	
evening max el	7276 Oct 27 00:13	24° X 45'18	45°48'35		7279 Apr 27 05:31	0° B	
	7276 Nov 01 14:47	0° Ξ			7279 May 21 03:27	0° Π	
greatest brilliancy	7276 Dec 05 10:59	23° Ξ 05'56	-4.8m				
retrograde	7276 Dec 14 20:00	24° Ξ 42'24		superior conj	7279 Jun 04 11:33	17° Π 56'43	-1°04'07
evening set	7276 Dec 30 00:29	20° Ξ 16'41		minimum elong	7279 Jun 04 22:47	18° Π 31'48	1°03'48
inferior conj	7277 Jan 04 19:14	16° Ξ 50'53	-2°51'34	max. Earth dist.	7279 Jun 07 21:39	22° Π 13'09	1.71849 AU
minimum elong	7277 Jan 05 01:27	16° Ξ 41'15	2°49'38		7279 Jun 14 03:18	0° E	
min. Earth dist.	7277 Jan 05 13:31	16° Ξ 22'35	0.27612 AU	asc. node	7279 Jul 04 02:21	24° E 50'07	
morning rise	7277 Jan 11 01:36	13° Ξ 07'19			7279 Jul 08 06:16	0° Ω	
asc. node	7277 Jan 16 07:57	10° Ξ 39'24		evening rise	7279 Jul 13 17:27	6° Ω 46'15	
direct	7277 Jan 25 19:43	8° Ξ 49'47			7279 Aug 01 12:53	0° P	
greatest brilliancy	7277 Feb 05 19:37	11° Ξ 04'46	-4.9m		7279 Aug 25 23:43	0° E	
	7277 Mar 05 03:09	0° \approx			7279 Sep 19 16:08	0° M	
morning max el	7277 Mar 17 06:56	11° \approx 41'02	46°53'33		7279 Oct 14 16:34	0° X	
	7277 Apr 03 14:05	0° X		desc. node	7279 Oct 23 19:21	10° X 48'06	
	7277 Apr 29 21:41	0° Υ			7279 Nov 09 04:31	0° Ξ	
desc. node	7277 May 08 01:01	9° Υ 34'59			7279 Dec 05 10:29	0° \approx	
	7277 May 25 03:14	0° B			7280 Jan 02 05:44	0° X	
	7277 Jun 18 21:47	0° Π		evening max el	7280 Jan 08 10:04	6° X 13'39	46°36'18
	7277 Jul 13 12:04	0° E			7280 Feb 05 02:54	0° Υ	
	7277 Aug 07 00:54	0° Ω		asc. node	7280 Feb 13 19:39	5° Υ 00'01	
asc. node	7277 Aug 29 00:13	26° Ω 54'35		greatest brilliancy	7280 Feb 17 16:07	6° Υ 36'09	-4.9m
	7277 Aug 31 12:43	0° P		retrograde	7280 Feb 27 14:16	8° Υ 28'00	
morning set	7277 Sep 17 20:54	21° P 17'06		evening set	7280 Mar 14 15:24	3° Υ 25'12	
	7277 Sep 24 23:02	0° E		inferior conj	7280 Mar 19 04:52	0° Υ 41'26	7°36'01
	7277 Oct 19 07:39	0° M		minimum elong	7280 Mar 18 18:26	0° Υ 57'25	7°34'07
max. Earth dist.	7277 Oct 23 03:37	4° M 43'35	1.73259 AU	min. Earth dist.	7280 Mar 18 20:43	0° Υ 53'56	0.26932 AU
					7280 Mar 20 07:58	30° R X	
superior conj	7277 Oct 24 10:13	6° M 17'58	1°25'48	morning rise	7280 Mar 22 21:31	28° X 27'46	
minimum elong	7277 Oct 24 10:30	6° M 18'51	1°25'51	direct	7280 Apr 08 18:41	22° X 55'47	
	7277 Nov 12 15:03	0° X		greatest brilliancy	7280 Apr 18 08:41	24° X 40'38	-4.9m
evening rise	7277 Nov 30 08:35	21° X 53'58			7280 Apr 29 01:29	0° Υ	

morning max el	7280 May 29 03:57	25° Υ 34'25	46°49'01		7282 Nov 22 01:51	0° Ξ	
	7280 Jun 02 12:46	0° \mathcal{B}			7282 Dec 16 20:10	0° \approx	
desc. node	7280 Jun 04 13:01	2° \mathcal{B} 04'31			7283 Jan 10 19:10	0° \mathcal{H}	
	7280 Jun 30 04:08	0° Π			7283 Feb 05 03:07	0° Υ	
	7280 Jul 26 05:29	0° \mathcal{G}			7283 Mar 03 09:15	0° \mathcal{B}	
	7280 Aug 20 15:39	0° Ω		asc. node	7283 Mar 13 07:08	10° \mathcal{B} 46'06	
	7280 Sep 14 17:23	0° \mathcal{M}		evening max el	7283 Mar 22 09:28	20° \mathcal{B} 13'35	47°02'44
asc. node	7280 Sep 25 12:15	13° \mathcal{M} 00'39			7283 Apr 01 10:37	0° Π	
	7280 Oct 09 12:28	0° \mathcal{L}		greatest brilliancy	7283 May 01 20:02	21° Π 19'01	-4.9m
	7280 Nov 03 01:36	0° \mathcal{M}		retrograde	7283 May 11 23:01	23° Π 14'41	
morning set	7280 Nov 25 08:02	27° \mathcal{M} 25'47		evening set	7283 May 28 16:43	17° Π 47'56	
	7280 Nov 27 09:57	0° \mathcal{A}		inferior conj	7283 Jun 01 19:15	15° Π 17'45	6°57'52
	7280 Dec 21 14:58	0° Ξ		minimum elong	7283 Jun 02 06:01	15° Π 01'04	6°55'34
max. Earth dist.	7280 Dec 30 06:23	10° Ξ 44'19	1.72305 AU	min. Earth dist.	7283 Jun 01 18:32	15° Π 18'52	0.27426 AU
				morning rise	7283 Jun 06 19:35	12° Π 16'56	
superior conj	7281 Jan 01 21:55	14° Ξ 01'51	0°31'27	direct	7283 Jun 22 14:51	7° Π 26'57	
minimum elong	7281 Jan 02 04:52	14° Ξ 23'30	0°31'12	greatest brilliancy	7283 Jul 02 07:25	9° Π 11'39	-4.8m
	7281 Jan 14 17:40	0° \approx		desc. node	7283 Jul 03 00:37	9° Π 26'59	
desc. node	7281 Jan 15 04:56	0° \approx 35'08			7283 Aug 02 01:18	0° \mathcal{G}	
	7281 Feb 07 18:28	0° \mathcal{H}		morning max el	7283 Aug 11 00:11	8° \mathcal{G} 22'50	46°03'41
evening rise	7281 Feb 10 06:53	3° \mathcal{H} 08'51			7283 Sep 01 02:24	0° Ω	
	7281 Mar 03 17:53	0° Υ			7283 Sep 28 04:29	0° \mathcal{M}	
	7281 Mar 27 17:16	0° \mathcal{B}		asc. node	7283 Oct 24 00:23	29° \mathcal{M} 56'14	
	7281 Apr 20 19:19	0° Π			7283 Oct 24 01:40	0° \mathcal{L}	
asc. node	7281 May 08 04:38	21° Π 28'10			7283 Nov 18 05:30	0° \mathcal{M}	
	7281 May 15 03:39	0° \mathcal{G}			7283 Dec 12 21:35	0° \mathcal{A}	
	7281 Jun 08 23:03	0° Ω			7284 Jan 06 05:53	0° Ξ	
	7281 Jul 04 13:24	0° \mathcal{M}			7284 Jan 30 09:08	0° \approx	
	7281 Jul 31 17:46	0° \mathcal{L}		morning set	7284 Feb 05 15:34	7° \approx 49'29	
evening max el	7281 Aug 14 06:28	13° \mathcal{L} 42'01	45°43'50	desc. node	7284 Feb 12 16:46	16° \approx 38'17	
desc. node	7281 Aug 27 22:06	26° \mathcal{L} 06'19			7284 Feb 23 08:54	0° \mathcal{H}	
	7281 Sep 01 17:31	0° \mathcal{M}		max. Earth dist.	7284 Mar 15 21:32	27° \mathcal{H} 01'38	1.71238 AU
greatest brilliancy	7281 Sep 21 21:07	11° \mathcal{M} 56'11	-4.7m				
retrograde	7281 Oct 02 04:02	13° \mathcal{M} 50'22		superior conj	7284 Mar 17 07:32	28° \mathcal{H} 48'26	-1°10'27
evening set	7281 Oct 20 08:14	7° \mathcal{M} 38'32		minimum elong	7284 Mar 16 20:03	28° \mathcal{H} 12'20	1°10'06
inferior conj	7281 Oct 23 15:42	5° \mathcal{M} 35'07	-8°37'09		7284 Mar 18 06:18	0° Υ	
minimum elong	7281 Oct 23 15:40	5° \mathcal{M} 35'09	8°37'06		7284 Apr 11 02:46	0° \mathcal{B}	
min. Earth dist.	7281 Oct 23 20:20	5° \mathcal{M} 27'50	0.29127 AU	evening rise	7284 Apr 26 23:15	19° \mathcal{B} 54'50	
morning rise	7281 Oct 26 23:04	3° \mathcal{M} 31'51			7284 May 05 00:18	0° Π	
	7281 Nov 02 12:05	30° \mathcal{R} \mathcal{L}			7284 May 29 01:04	0° \mathcal{G}	
direct	7281 Nov 14 05:55	27° \mathcal{L} 16'29		asc. node	7284 Jun 04 16:26	8° \mathcal{G} 14'53	
greatest brilliancy	7281 Nov 24 20:59	29° \mathcal{L} 20'30	-4.8m		7284 Jun 22 07:01	0° Ω	
	7281 Nov 26 12:56	0° \mathcal{M}			7284 Jul 16 20:13	0° \mathcal{M}	
asc. node	7281 Dec 18 22:09	14° \mathcal{M} 47'41			7284 Aug 10 19:56	0° \mathcal{L}	
morning max el	7282 Jan 02 19:59	28° \mathcal{M} 33'22	46°09'42		7284 Sep 05 12:39	0° \mathcal{M}	
	7282 Jan 04 06:52	0° \mathcal{A}		desc. node	7284 Sep 24 09:38	21° \mathcal{M} 11'19	
	7282 Feb 01 05:22	0° Ξ			7284 Oct 02 12:38	0° \mathcal{A}	
	7282 Feb 27 00:11	0° \approx		evening max el	7284 Oct 24 13:18	22° \mathcal{A} 26'31	45°47'32
	7282 Mar 23 21:17	0° \mathcal{H}			7284 Nov 01 17:27	0° Ξ	
desc. node	7282 Apr 09 14:58	20° \mathcal{H} 30'58		greatest brilliancy	7284 Dec 03 01:15	20° Ξ 48'12	-4.8m
	7282 Apr 17 07:30	0° Υ		retrograde	7284 Dec 12 09:35	22° Ξ 24'24	
	7282 May 11 12:13	0° \mathcal{B}		evening set	7284 Dec 27 16:45	17° Ξ 54'50	
	7282 Jun 04 15:03	0° Π		inferior conj	7285 Jan 02 09:26	14° Ξ 32'04	-3°12'31
	7282 Jun 28 18:27	0° \mathcal{G}		minimum elong	7285 Jan 02 16:19	14° Ξ 21'26	3°10'25
morning set	7282 Jul 08 01:53	11° \mathcal{G} 32'47		min. Earth dist.	7285 Jan 03 04:43	14° Ξ 02'16	0.27669 AU
	7282 Jul 22 23:31	0° Ω		morning rise	7285 Jan 08 15:02	10° Ξ 49'32	
asc. node	7282 Jul 31 14:08	10° Ω 38'51		asc. node	7285 Jan 15 09:50	7° Ξ 48'25	
				direct	7285 Jan 23 09:58	6° Ξ 29'51	
superior conj	7282 Aug 15 00:34	28° Ω 28'28	0°33'55	greatest brilliancy	7285 Feb 03 11:50	8° Ξ 46'36	-4.9m
minimum elong	7282 Aug 14 17:40	28° Ω 07'11	0°33'33		7285 Mar 05 06:56	0° \approx	
	7282 Aug 16 06:14	0° \mathcal{M}		morning max el	7285 Mar 14 21:06	9° \approx 19'15	46°52'46
max. Earth dist.	7282 Aug 16 17:08	0° \mathcal{M} 33'38	1.73097 AU		7285 Apr 03 07:36	0° \mathcal{H}	
	7282 Sep 09 14:11	0° \mathcal{L}			7285 Apr 29 12:08	0° Υ	
evening rise	7282 Sep 20 15:00	13° \mathcal{L} 34'58		desc. node	7285 May 07 03:08	9° Υ 00'04	
	7282 Oct 03 23:34	0° \mathcal{M}			7285 May 24 16:16	0° \mathcal{B}	
	7282 Oct 28 11:09	0° \mathcal{A}			7285 Jun 18 10:01	0° Π	
desc. node	7282 Nov 20 07:13	27° \mathcal{A} 50'23			7285 Jul 12 23:45	0° \mathcal{G}	

	7285 Aug 06 12:11	0°♊		asc. node	7288 Feb 12 21:38	3°♈14'37	
asc. node	7285 Aug 28 02:12	26°♊26'48		greatest brilliancy	7288 Feb 15 04:11	4°♈08'10	-4.9m
	7285 Aug 30 23:44	0°♎		retrograde	7288 Feb 25 03:24	6°♈00'22	
morning set	7285 Sep 15 13:50	19°♎08'08		evening set	7288 Mar 11 23:47	1°♈03'54	
	7285 Sep 24 09:54	0°♌			7288 Mar 13 19:37	30°♎♋	
	7285 Oct 18 18:28	0°♍		inferior conj	7288 Mar 16 17:24	28°♋14'00	7°21'50
max. Earth dist.	7285 Oct 20 23:17	2°♍42'53	1.73277 AU	minimum elong	7288 Mar 16 06:42	28°♋30'24	7°19'47
				min. Earth dist.	7288 Mar 16 09:07	28°♋26'42	0.26920 AU
superior conj	7285 Oct 22 03:41	4°♍10'30	1°25'47	morning rise	7288 Mar 20 13:42	25°♋55'04	
minimum elong	7285 Oct 22 03:15	4°♍09'08	1°25'50	direct	7288 Apr 06 07:56	20°♋28'35	
	7285 Nov 12 01:56	0°♈		greatest brilliancy	7288 Apr 15 21:15	22°♋13'08	-4.9m
evening rise	7285 Nov 28 00:33	19°♈41'17			7288 Apr 30 06:31	0°♈	
	7285 Dec 06 08:59	0°♉		morning max el	7288 May 26 17:42	23°♈11'11	46°50'15
desc. node	7285 Dec 17 18:58	14°♉06'04			7288 Jun 02 09:52	0°♉	
	7285 Dec 30 15:53	0°♊		desc. node	7288 Jun 03 14:55	1°♉15'45	
	7286 Jan 23 22:37	0°♋			7288 Jun 29 19:52	0°♊	
	7286 Feb 17 05:55	0°♌			7288 Jul 25 19:00	0°♋	
	7286 Mar 13 16:31	0°♍			7288 Aug 20 04:00	0°♌	
	7286 Apr 07 12:17	0°♎			7288 Sep 14 05:03	0°♍	
asc. node	7286 Apr 09 18:52	2°♎42'36		asc. node	7288 Sep 24 14:18	12°♎32'14	
	7286 May 03 04:30	0°♏			7288 Oct 08 23:43	0°♎	
	7286 May 30 20:59	0°♐			7288 Nov 02 12:37	0°♏	
evening max el	7286 Jun 02 03:39	2°♐17'20	46°28'26	morning set	7288 Nov 23 00:43	25°♏15'23	
	7286 Jul 06 14:37	0°♑			7288 Nov 26 20:52	0°♑	
greatest brilliancy	7286 Jul 11 00:49	1°♑59'57	-4.8m		7288 Dec 21 01:52	0°♒	
retrograde	7286 Jul 22 02:58	4°♑16'21		max. Earth dist.	7288 Dec 27 20:11	8°♒24'05	1.72347 AU
desc. node	7286 Jul 30 12:22	2°♑50'44					
	7286 Aug 05 21:14	30°♒♊		superior conj	7288 Dec 30 12:17	11°♒43'20	0°34'46
evening set	7286 Aug 06 04:42	29°♒49'49		minimum elong	7288 Dec 30 19:48	12°♒06'42	0°34'29
inferior conj	7286 Aug 12 11:50	26°♒03'38	-3°06'11	desc. node	7289 Jan 14 06:48	0°♒06'44	
minimum elong	7286 Aug 12 05:15	26°♒13'54	3°04'22		7289 Jan 14 04:38	0°♒	
min. Earth dist.	7286 Aug 11 21:16	26°♒26'21	0.28454 AU		7289 Feb 07 05:35	0°♋	
morning rise	7286 Aug 18 06:18	22°♒35'39		evening rise	7289 Feb 07 19:23	0°♋43'09	
direct	7286 Sep 02 18:10	17°♒57'53			7289 Mar 03 05:08	0°♌	
greatest brilliancy	7286 Sep 12 14:43	19°♒42'55	-4.7m		7289 Mar 27 04:42	0°♍	
	7286 Sep 30 22:25	0°♎			7289 Apr 20 07:00	0°♎	
morning max el	7286 Oct 21 10:40	17°♎37'31	45°41'33	asc. node	7289 May 07 06:37	20°♎57'28	
	7286 Nov 02 20:54	0°♏			7289 May 14 15:46	0°♏	
asc. node	7286 Nov 20 12:27	18°♏53'02			7289 Jun 08 11:54	0°♐	
	7286 Nov 30 10:50	0°♑			7289 Jul 04 03:48	0°♑	
	7286 Dec 26 06:24	0°♒			7289 Jul 31 12:01	0°♒	
	7287 Jan 20 04:50	0°♓		evening max el	7289 Aug 11 22:05	11°♓30'14	45°44'35
	7287 Feb 13 15:29	0°♊		desc. node	7289 Aug 27 00:06	25°♓06'50	
	7287 Mar 09 19:14	0°♋			7289 Sep 02 06:13	0°♓	
desc. node	7287 Mar 12 04:52	2°♋59'42		greatest brilliancy	7289 Sep 19 12:27	9°♓46'15	-4.7m
	7287 Apr 02 18:54	0°♌		retrograde	7289 Sep 29 19:41	11°♓40'43	
morning set	7287 Apr 22 21:54	25°♌15'15		evening set	7289 Oct 17 23:30	5°♓30'23	
	7287 Apr 26 16:36	0°♍		inferior conj	7289 Oct 21 07:58	3°♓25'11	-8°36'33
	7287 May 20 14:25	0°♎		minimum elong	7289 Oct 21 07:10	3°♓26'27	8°36'30
				min. Earth dist.	7289 Oct 21 11:27	3°♓19'43	0.29144 AU
superior conj	7287 Jun 02 00:27	15°♎32'47	-1°06'37	morning rise	7289 Oct 24 14:49	1°♓22'30	
minimum elong	7287 Jun 02 11:38	16°♎07'46	1°06'20		7289 Oct 26 22:50	30°♒♌	
max. Earth dist.	7287 Jun 05 10:11	19°♎48'15	1.71806 AU	direct	7289 Nov 11 22:24	25°♌06'43	
	7287 Jun 13 14:13	0°♏		greatest brilliancy	7289 Nov 22 12:04	27°♌08'59	-4.8m
asc. node	7287 Jul 03 04:13	24°♏22'03			7289 Nov 28 18:15	0°♍	
	7287 Jul 07 17:12	0°♐		asc. node	7289 Dec 18 00:02	13°♍47'51	
evening rise	7287 Jul 11 08:40	4°♐30'55		morning max el	7289 Dec 31 10:24	26°♍16'27	46°08'03
	7287 Jul 31 23:55	0°♑			7290 Jan 04 03:51	0°♑	
	7287 Aug 25 10:57	0°♒			7290 Jan 31 20:51	0°♒	
	7287 Sep 19 03:46	0°♓			7290 Feb 26 13:39	0°♓	
	7287 Oct 14 04:53	0°♔			7290 Mar 23 09:46	0°♔	
desc. node	7287 Oct 22 21:24	10°♔16'44		desc. node	7290 Apr 08 17:01	20°♔00'13	
	7287 Nov 08 18:04	0°♕			7290 Apr 16 19:23	0°♕	
	7287 Dec 05 02:22	0°♖			7290 May 10 23:44	0°♖	
	7288 Jan 02 03:19	0°♗			7290 Jun 04 02:17	0°♗	
evening max el	7288 Jan 06 00:41	3°♗53'22	46°34'35		7290 Jun 28 05:27	0°♘	
	7288 Feb 06 12:56	0°♘		morning set	7290 Jul 05 17:05	9°♘17'15	

	7290 Jul 22 10:21	0°♈	morning rise	7293 Jan 06 04:26	8°♊33'12	
asc. node	7290 Jul 30 16:09	10°♈11'45	asc. node	7293 Jan 14 11:53	5°♊03'39	
			direct	7293 Jan 21 00:52	4°♊10'56	
superior conj	7290 Aug 12 17:18	26°♈18'54 0°30'49	greatest brilliancy	7293 Feb 01 03:48	6°♊28'58 -4.9m	
minimum elong	7290 Aug 12 10:55	25°♈59'13 0°30'29		7293 Mar 05 09:02	0°♊	
max. Earth dist.	7290 Aug 14 12:50	28°♈33'15 1.73063 AU	morning max el	7293 Mar 12 12:29	7°♊00'55 46°51'47	
	7290 Aug 15 16:56	0°♎		7293 Apr 03 00:43	0°♋	
	7290 Sep 09 00:53	0°♊		7293 Apr 29 02:22	0°♎	
evening rise	7290 Sep 18 09:01	11°♊29'41	desc. node	7293 May 06 05:03	8°♎25'02	
	7290 Oct 03 10:22	0°♌		7293 May 24 05:06	0°♏	
	7290 Oct 27 22:15	0°♋		7293 Jun 17 22:00	0°♐	
desc. node	7290 Nov 19 09:07	27°♋21'18		7293 Jul 12 11:10	0°♑	
	7290 Nov 21 13:22	0°♊		7293 Aug 05 23:12	0°♈	
	7290 Dec 16 08:19	0°♊	asc. node	7293 Aug 27 04:14	26°♈00'00	
	7291 Jan 10 08:14	0°♋		7293 Aug 30 10:29	0°♎	
	7291 Feb 04 17:43	0°♎	morning set	7293 Sep 13 07:02	17°♎00'50	
	7291 Mar 03 03:04	0°♏		7293 Sep 23 20:29	0°♊	
asc. node	7291 Mar 12 09:15	9°♏58'47		7293 Oct 18 04:59	0°♌	
evening max el	7291 Mar 19 22:08	17°♏46'57 47°02'49	max. Earth dist.	7293 Oct 18 20:50	0°♌48'54 1.73290 AU	
	7291 Apr 01 15:06	0°♐				
greatest brilliancy	7291 Apr 29 11:24	18°♐57'25 -4.9m	superior conj	7293 Oct 19 21:34	2°♌05'10 1°25'38	
retrograde	7291 May 09 12:17	20°♐51'36	minimum elong	7293 Oct 19 20:26	2°♌01'39 1°25'41	
evening set	7291 May 26 09:49	15°♐20'15		7293 Nov 11 12:29	0°♋	
inferior conj	7291 May 30 08:50	12°♐55'19 7°12'44	evening rise	7293 Nov 25 17:04	17°♋31'18	
minimum elong	7291 May 30 19:26	12°♐38'53 7°10'35		7293 Dec 05 19:40	0°♊	
min. Earth dist.	7291 May 30 08:34	12°♐55'44 0.27403 AU	desc. node	7293 Dec 16 20:56	13°♊38'45	
morning rise	7291 Jun 04 05:15	9°♐59'52		7293 Dec 30 02:49	0°♊	
direct	7291 Jun 20 03:33	5°♐04'46		7294 Jan 23 09:55	0°♋	
greatest brilliancy	7291 Jun 29 20:54	6°♐49'49 -4.8m		7294 Feb 16 17:40	0°♎	
desc. node	7291 Jul 02 02:35	7°♐40'45		7294 Mar 13 04:55	0°♏	
	7291 Aug 02 04:19	0°♑		7294 Apr 07 01:44	0°♐	
morning max el	7291 Aug 08 13:21	6°♑02'23 46°05'21	asc. node	7294 Apr 08 20:49	2°♐08'01	
	7291 Aug 31 19:25	0°♈		7294 May 02 20:03	0°♑	
	7291 Sep 27 18:17	0°♎		7294 May 30 18:17	0°♈	
asc. node	7291 Oct 23 02:25	29°♎25'53	evening max el	7294 May 30 19:17	0°♈02'30 46°30'22	
	7291 Oct 23 13:59	0°♊	greatest brilliancy	7294 Jul 08 16:22	29°♈46'28 -4.8m	
	7291 Nov 17 17:03	0°♌		7294 Jul 09 06:33	0°♎	
	7291 Dec 12 08:46	0°♋	retrograde	7294 Jul 19 19:30	2°♎03'34	
	7292 Jan 05 16:54	0°♊	desc. node	7294 Jul 29 14:26	0°♎06'58	
	7292 Jan 29 20:05	0°♊		7294 Jul 29 21:28	30°♌♈	
morning set	7292 Feb 03 04:01	5°♊24'18	evening set	7294 Aug 03 19:30	27°♈38'17	
desc. node	7292 Feb 11 18:51	16°♊10'34	min. Earth dist.	7294 Aug 09 12:38	24°♈14'03 0.28407 AU	
	7292 Feb 22 19:49	0°♋	inferior conj	7294 Aug 10 03:20	23°♈51'09 -2°46'37	
max. Earth dist.	7292 Mar 13 03:09	24°♋14'06 1.71256 AU	minimum elong	7294 Aug 09 21:21	24°♈00'28 2°44'56	
			morning rise	7294 Aug 15 23:48	20°♈20'51	
superior conj	7292 Mar 14 18:19	26°♋17'10 -1°08'00	direct	7294 Aug 31 09:38	15°♈46'05	
minimum elong	7292 Mar 14 06:36	25°♋40'21 1°07'38	greatest brilliancy	7294 Sep 10 05:16	17°♈30'52 -4.7m	
	7292 Mar 17 17:13	0°♎		7294 Oct 01 10:51	0°♎	
	7292 Apr 10 13:43	0°♏	morning max el	7294 Oct 19 02:49	15°♎28'32 45°41'32	
evening rise	7292 Apr 24 09:44	17°♏22'44		7294 Nov 02 14:58	0°♊	
	7292 May 04 11:18	0°♐	asc. node	7294 Nov 19 14:16	18°♊16'20	
	7292 May 28 12:09	0°♑		7294 Nov 30 00:53	0°♌	
asc. node	7292 Jun 03 18:20	7°♑46'15		7294 Dec 25 18:50	0°♋	
	7292 Jun 21 18:17	0°♈		7295 Jan 19 16:28	0°♊	
	7292 Jul 16 07:51	0°♎		7295 Feb 13 02:43	0°♊	
	7292 Aug 10 08:15	0°♊		7295 Mar 09 06:16	0°♋	
	7292 Sep 05 02:21	0°♌	desc. node	7295 Mar 11 06:54	2°♋31'43	
desc. node	7292 Sep 23 11:44	20°♌34'30		7295 Apr 02 05:49	0°♎	
	7292 Oct 02 05:31	0°♋	morning set	7295 Apr 20 08:33	22°♎43'58	
evening max el	7292 Oct 22 03:05	20°♋10'36 45°46'34		7295 Apr 26 03:26	0°♏	
	7292 Nov 01 21:20	0°♊		7295 May 20 01:10	0°♐	
greatest brilliancy	7292 Nov 30 14:51	18°♊31'05 -4.8m				
retrograde	7292 Dec 09 23:43	20°♊07'45	superior conj	7295 May 30 12:42	13°♐07'27 -1°09'02	
evening set	7292 Dec 25 09:15	15°♊34'02	minimum elong	7295 May 30 23:46	13°♐42'04 1°08'47	
inferior conj	7292 Dec 30 23:46	12°♊14'20 -3°32'51	max. Earth dist.	7295 Jun 02 22:57	17°♐24'38 1.71761 AU	
minimum elong	7292 Dec 31 07:16	12°♊02'46 3°30'36		7295 Jun 13 00:54	0°♑	
min. Earth dist.	7292 Dec 31 19:39	11°♊43'39 0.27734 AU	asc. node	7295 Jul 02 06:13	23°♑55'08	

	7295 Jul 07 03:52	0°♌		asc. node	7297 Dec 17 02:08	12°♍50'55	
evening rise	7295 Jul 08 23:15	2°♌14'28		morning max el	7297 Dec 29 00:34	23°♍59'58	46°06'33
	7295 Jul 31 10:38	0°♍			7298 Jan 03 23:44	0°♎	
	7295 Aug 24 21:53	0°♎			7298 Jan 31 11:45	0°♏	
	7295 Sep 18 15:04	0°♍			7298 Feb 26 02:40	0°♐	
	7295 Oct 13 16:53	0°♎			7298 Mar 22 21:50	0°♑	
desc. node	7295 Oct 21 23:19	9°♎46'01		desc. node	7298 Apr 07 18:55	19°♑30'11	
	7295 Nov 08 07:18	0°♏			7298 Apr 16 06:53	0°♒	
	7295 Dec 04 18:01	0°♐			7298 May 10 10:51	0°♓	
	7296 Jan 02 01:04	0°♑			7298 Jun 03 13:10	0°♈	
evening max el	7296 Jan 03 15:20	1°♑34'49	46°32'50		7298 Jun 27 16:10	0°♉	
	7296 Feb 08 14:23	0°♒		morning set	7298 Jul 03 08:04	7°♊01'47	
asc. node	7296 Feb 11 23:39	1°♒27'05			7298 Jul 21 20:56	0°♋	
greatest brilliancy	7296 Feb 12 16:56	1°♒43'00	-4.9m	asc. node	7298 Jul 29 18:12	9°♋45'27	
retrograde	7296 Feb 22 16:14	3°♒34'41					
	7296 Mar 07 00:35	30°♌♋		superior conj	7298 Aug 10 09:42	24°♌08'56	0°27'39
evening set	7296 Mar 09 08:33	28°♌44'32		minimum elong	7298 Aug 10 03:54	23°♌51'00	0°27'19
inferior conj	7296 Mar 14 06:09	25°♌48'41	7°06'54	max. Earth dist.	7298 Aug 12 05:46	26°♌24'58	1.73032 AU
minimum elong	7296 Mar 13 19:15	26°♌05'27	7°04'40		7298 Aug 15 03:27	0°♍	
min. Earth dist.	7296 Mar 13 22:05	26°♌01'05	0.26914 AU		7298 Sep 08 11:24	0°♎	
morning rise	7296 Mar 18 06:02	23°♌24'21		evening rise	7298 Sep 16 02:42	9°♎23'58	
direct	7296 Apr 03 21:08	18°♌03'29			7298 Oct 02 21:00	0°♏	
greatest brilliancy	7296 Apr 13 10:32	19°♌47'54	-4.9m		7298 Oct 27 09:08	0°♐	
	7296 May 01 02:59	0°♒		desc. node	7298 Nov 18 11:05	26°♐53'06	
morning max el	7296 May 24 06:40	20°♒46'46	46°51'09		7298 Nov 21 00:41	0°♑	
	7296 Jun 02 05:56	0°♓			7298 Dec 15 20:14	0°♒	
desc. node	7296 Jun 02 16:52	0°♓28'48			7299 Jan 09 21:06	0°♑	
	7296 Jun 29 11:07	0°♈			7299 Feb 04 08:12	0°♒	
	7296 Jul 25 08:11	0°♉			7299 Mar 02 20:59	0°♓	
	7296 Aug 19 16:02	0°♋		asc. node	7299 Mar 11 11:13	9°♓11'24	
	7296 Sep 13 16:22	0°♌		evening max el	7299 Mar 17 10:44	15°♓21'12	47°03'00
asc. node	7296 Sep 23 16:15	12°♌04'34			7299 Apr 01 21:06	0°♈	
	7296 Oct 08 10:35	0°♍		greatest brilliancy	7299 Apr 27 02:33	16°♈36'51	-4.9m
	7296 Nov 01 23:14	0°♎		retrograde	7299 May 07 02:01	18°♈30'16	
morning set	7296 Nov 20 17:33	23°♎06'41		evening set	7299 May 24 03:03	12°♈54'00	
	7296 Nov 26 07:23	0°♏		inferior conj	7299 May 27 22:37	10°♈34'24	7°26'42
	7296 Dec 20 12:24	0°♐		minimum elong	7299 May 28 08:59	10°♈18'21	7°24'44
max. Earth dist.	7296 Dec 25 09:22	6°♐03'13	1.72387 AU	min. Earth dist.	7299 May 27 22:38	10°♈34'23	0.27384 AU
				morning rise	7299 Jun 01 15:03	7°♈44'40	
superior conj	7296 Dec 28 03:12	9°♐27'44	0°37'57	direct	7299 Jun 17 16:19	2°♈43'52	
minimum elong	7296 Dec 28 11:13	9°♐52'39	0°37'41	greatest brilliancy	7299 Jun 27 10:33	4°♈29'32	-4.8m
desc. node	7297 Jan 13 08:54	29°♐40'17		desc. node	7299 Jul 01 04:40	5°♈59'59	
	7297 Jan 13 15:14	0°♑			7299 Aug 02 05:29	0°♉	
evening rise	7297 Feb 05 08:27	28°♑20'36		morning max el	7299 Aug 06 03:27	3°♉44'53	46°06'50
	7297 Feb 06 16:16	0°♒			7299 Aug 31 11:53	0°♋	
	7297 Mar 02 15:57	0°♒			7299 Sep 27 07:51	0°♌	
	7297 Mar 26 15:43	0°♓		asc. node	7299 Oct 22 04:17	28°♌55'25	
	7297 Apr 19 18:20	0°♈			7299 Oct 23 02:10	0°♍	
asc. node	7297 May 06 08:31	20°♈27'34			7299 Nov 17 04:30	0°♎	
	7297 May 14 03:35	0°♉			7299 Dec 11 19:50	0°♏	
	7297 Jun 08 00:35	0°♋			7300 Jan 05 03:47	0°♐	
	7297 Jul 03 18:08	0°♌			7300 Jan 29 06:52	0°♑	
	7297 Jul 31 06:33	0°♍		morning set	7300 Jan 31 16:41	3°♑00'20	
evening max el	7297 Aug 09 12:56	9°♍17'01	45°45'29	desc. node	7300 Feb 10 20:48	15°♑42'59	
desc. node	7297 Aug 26 02:10	24°♍06'41			7300 Feb 22 06:35	0°♒	
	7297 Sep 02 22:56	0°♎		max. Earth dist.	7300 Mar 11 11:48	21°♒36'33	1.71278 AU
greatest brilliancy	7297 Sep 17 04:07	7°♎37'17	-4.7m				
retrograde	7297 Sep 27 11:15	9°♎32'01		superior conj	7300 Mar 13 05:13	23°♒46'41	-1°05'26
evening set	7297 Oct 15 14:28	3°♎23'34		minimum elong	7300 Mar 12 17:22	23°♒09'28	1°05'01
inferior conj	7297 Oct 19 00:17	1°♎16'16	-8°35'17		7300 Mar 18 04:01	0°♓	
minimum elong	7297 Oct 18 22:41	1°♎18'48	8°35'13		7300 Apr 11 00:33	0°♈	
min. Earth dist.	7297 Oct 19 02:53	1°♎12'10	0.29154 AU	evening rise	7300 Apr 22 20:27	14°♈51'46	
	7297 Oct 21 00:52	30°♌♎			7300 May 04 22:10	0°♉	
morning rise	7297 Oct 22 06:52	29°♎13'47			7300 May 28 23:06	0°♊	
direct	7297 Nov 09 14:18	22°♎57'51		asc. node	7300 Jun 03 20:23	7°♊18'29	
greatest brilliancy	7297 Nov 20 03:40	24°♎59'07	-4.8m		7300 Jun 22 05:26	0°♋	
	7297 Nov 30 04:18	0°♏			7300 Jul 16 19:24	0°♌	

	7300 Aug 10 20:35	0°♄			7303 Apr 02 16:58	0°♿	
	7300 Sep 05 16:13	0°♍		morning set	7303 Apr 18 19:04	20°♿11'36	
desc. node	7300 Sep 23 13:37	19°♍56'31			7303 Apr 26 14:29	0°♿	
	7300 Oct 02 22:51	0°♎			7303 May 20 12:08	0°♈	
evening max el	7300 Oct 20 17:53	17°♎56'55	45°45'38				
	7300 Nov 03 03:20	0°♏		superior conj	7303 May 29 00:53	10°♈41'06	-1°11'20
greatest brilliancy	7300 Nov 29 04:09	16°♏13'34	-4.8m	minimum elong	7303 May 29 11:44	11°♈15'02	1°11'06
retrograde	7300 Dec 08 14:07	17°♏50'48		max. Earth dist.	7303 Jun 01 12:15	15°♈01'52	1.71717 AU
evening set	7300 Dec 24 01:52	13°♏13'04			7303 Jun 13 11:50	0°♉	
inferior conj	7300 Dec 29 14:04	9°♏56'23	-3°52'43	asc. node	7303 Jul 02 08:16	23°♉27'29	
minimum elong	7300 Dec 29 22:06	9°♏43'58	3°50'23	evening rise	7303 Jul 07 13:46	29°♉56'45	
min. Earth dist.	7300 Dec 30 10:11	9°♏25'19	0.27796 AU		7303 Jul 07 14:49	0°♊	
morning rise	7301 Jan 04 17:35	6°♏17'01			7303 Jul 31 21:40	0°♋	
asc. node	7301 Jan 14 13:54	2°♏24'08			7303 Aug 25 09:06	0°♌	
direct	7301 Jan 19 16:11	1°♏52'06			7303 Sep 19 02:41	0°♍	
greatest brilliancy	7301 Jan 30 19:01	4°♏10'32	-4.8m		7303 Oct 14 05:14	0°♎	
	7301 Mar 06 09:47	0°♏		desc. node	7303 Oct 22 01:20	9°♎14'34	
morning max el	7301 Mar 11 04:19	4°♏43'55	46°50'42		7303 Nov 08 21:00	0°♏	
	7301 Apr 03 17:28	0°♐			7303 Dec 05 10:23	0°♐	
	7301 Apr 29 16:26	0°♑		evening max el	7304 Jan 02 05:15	29°♐13'06	46°30'53
desc. node	7301 May 06 06:59	7°♑50'17			7304 Jan 03 00:21	0°♑	
	7301 May 24 17:51	0°♒		greatest brilliancy	7304 Feb 11 06:14	29°♑16'41	-4.9m
	7301 Jun 18 09:57	0°♈		asc. node	7304 Feb 12 01:37	29°♑33'20	
	7301 Jul 12 22:34	0°♉			7304 Feb 13 12:21	0°♑	
asc. node	7301 Aug 06 10:12	0°♊		retrograde	7304 Feb 21 04:27	1°♑07'12	
	7301 Aug 27 06:08	25°♊32'44			7304 Feb 28 14:17	30°♒♋	
morning set	7301 Aug 30 21:14	0°♋		evening set	7304 Mar 07 17:21	26°♒23'11	
	7301 Sep 12 00:21	14°♋53'44		inferior conj	7304 Mar 12 18:49	23°♒21'48	6°51'08
	7301 Sep 24 07:07	0°♌		minimum elong	7304 Mar 12 07:47	23°♒38'46	6°48'44
max. Earth dist.	7301 Oct 17 18:30	28°♌54'54	1.73307 AU	min. Earth dist.	7304 Mar 12 11:25	23°♒33'10	0.26905 AU
				morning rise	7304 Mar 16 22:16	20°♒52'01	
superior conj	7301 Oct 18 15:22	29°♌59'15	1°25'23	direct	7304 Apr 02 09:36	15°♒36'38	
minimum elong	7301 Oct 18 13:33	29°♌53'37	1°25'25	greatest brilliancy	7304 Apr 12 00:21	17°♒21'44	-4.9m
	7301 Oct 18 15:37	0°♍			7304 May 02 18:49	0°♑	
	7301 Nov 11 23:12	0°♎		morning max el	7304 May 22 18:45	18°♑18'49	46°52'08
evening rise	7301 Nov 24 09:23	15°♎20'11		desc. node	7304 Jun 02 19:02	29°♑42'04	
	7301 Dec 06 06:33	0°♏			7304 Jun 03 01:47	0°♒	
desc. node	7301 Dec 16 23:00	13°♏11'12			7304 Jun 30 02:29	0°♈	
	7301 Dec 30 13:56	0°♐			7304 Jul 25 21:36	0°♉	
	7302 Jan 23 21:22	0°♑			7304 Aug 20 04:21	0°♊	
	7302 Feb 17 05:35	0°♑			7304 Sep 14 04:01	0°♋	
	7302 Mar 13 17:30	0°♒		asc. node	7304 Sep 23 18:12	11°♋35'50	
	7302 Apr 07 15:27	0°♈			7304 Oct 08 21:48	0°♌	
asc. node	7302 Apr 08 22:43	1°♈32'45			7304 Nov 02 10:12	0°♍	
	7302 May 03 12:01	0°♉		morning set	7304 Nov 19 10:36	20°♍57'32	
evening max el	7302 May 29 11:37	27°♉48'48	46°32'12		7304 Nov 26 18:15	0°♎	
	7302 May 31 16:38	0°♊			7304 Dec 20 23:18	0°♏	
greatest brilliancy	7302 Jul 07 08:24	27°♊33'06	-4.8m	max. Earth dist.	7304 Dec 23 23:59	3°♏45'41	1.72434 AU
retrograde	7302 Jul 18 11:54	29°♊50'06					
desc. node	7302 Jul 29 16:25	27°♊18'25		superior conj	7304 Dec 26 18:15	7°♏11'29	0°41'04
evening set	7302 Aug 02 10:33	25°♊26'10		minimum elong	7304 Dec 27 02:43	7°♏37'47	0°40'48
min. Earth dist.	7302 Aug 08 04:04	22°♊01'08	0.28359 AU	desc. node	7305 Jan 13 10:53	29°♏12'09	
inferior conj	7302 Aug 08 18:49	21°♊38'09	-2°26'44		7305 Jan 14 02:15	0°♐	
minimum elong	7302 Aug 08 13:29	21°♊46'27	2°25'12	evening rise	7305 Feb 03 21:27	25°♐56'30	
morning rise	7302 Aug 14 17:09	18°♊05'33			7305 Feb 07 03:26	0°♑	
direct	7302 Aug 30 01:16	13°♊33'58			7305 Mar 03 03:16	0°♑	
greatest brilliancy	7302 Sep 08 19:23	15°♊17'48	-4.7m		7305 Mar 27 03:14	0°♒	
	7302 Oct 02 20:11	0°♋			7305 Apr 20 06:08	0°♈	
morning max el	7302 Oct 17 18:28	13°♋17'51	45°41'25	asc. node	7305 May 06 10:36	19°♈56'50	
	7302 Nov 03 08:48	0°♌			7305 May 14 15:53	0°♉	
asc. node	7302 Nov 19 16:23	17°♌40'06			7305 Jun 08 13:45	0°♊	
	7302 Nov 30 15:03	0°♍			7305 Jul 04 09:04	0°♋	
	7302 Dec 26 07:30	0°♎			7305 Aug 01 02:03	0°♌	
	7303 Jan 20 04:24	0°♏		evening max el	7305 Aug 08 03:26	7°♌01'43	45°46'29
	7303 Feb 13 14:15	0°♐		desc. node	7305 Aug 26 04:06	23°♌03'40	
	7303 Mar 09 17:34	0°♑			7305 Sep 04 22:25	0°♍	
desc. node	7303 Mar 11 08:50	2°♑02'30		greatest brilliancy	7305 Sep 15 19:27	5°♍26'48	-4.7m

retrograde	7305 Sep 26 03:02	7° \mathbb{M} 22'32		superior conj	7308 Mar 10 16:25	21° \mathbb{H} 16'28	-1°02'45
evening set	7305 Oct 14 05:09	1° \mathbb{M} 16'09		minimum elong	7308 Mar 10 04:32	20° \mathbb{H} 39'09	1°02'18
	7305 Oct 16 06:35	30° \mathbb{R} $\underline{\mathbb{A}}$			7308 Mar 17 15:01	0° \mathbb{Y}	
inferior conj	7305 Oct 17 16:38	29° $\underline{\mathbb{A}}$ 06'29	-8°33'18		7308 Apr 10 11:37	0° \mathbb{B}	
minimum elong	7305 Oct 17 14:16	29° $\underline{\mathbb{A}}$ 10'13	8°33'10	evening rise	7308 Apr 20 07:14	12° \mathbb{B} 20'10	
min. Earth dist.	7305 Oct 17 18:25	29° $\underline{\mathbb{A}}$ 03'41	0.29163 AU		7308 May 04 09:19	0° \mathbb{I}	
morning rise	7305 Oct 20 23:20	27° $\underline{\mathbb{A}}$ 03'50			7308 May 28 10:22	0° \mathbb{G}	
direct	7305 Nov 08 06:01	20° $\underline{\mathbb{A}}$ 47'57		asc. node	7308 Jun 02 22:23	6° \mathbb{G} 49'37	
greatest brilliancy	7305 Nov 18 19:40	22° $\underline{\mathbb{A}}$ 48'57	-4.8m		7308 Jun 21 16:54	0° \mathbb{Q}	
	7305 Dec 02 04:54	0° \mathbb{M}			7308 Jul 16 07:17	0° \mathbb{P}	
asc. node	7305 Dec 17 04:07	11° \mathbb{M} 54'05			7308 Aug 10 09:15	0° $\underline{\mathbb{A}}$	
morning max el	7305 Dec 27 15:12	21° \mathbb{M} 43'48	46°05'08		7308 Sep 05 06:27	0° \mathbb{M}	
	7306 Jan 04 19:23	0° \mathbb{A}		desc. node	7308 Sep 22 15:40	19° \mathbb{M} 18'07	
	7306 Feb 01 02:50	0° \mathbb{B}			7308 Oct 02 16:48	0° \mathbb{A}	
	7306 Feb 26 16:01	0° \approx		evening max el	7308 Oct 18 09:26	15° \mathbb{A} 44'44	45°44'45
	7306 Mar 23 10:18	0° \mathbb{H}			7308 Nov 03 11:55	0° \mathbb{B}	
desc. node	7306 Apr 07 20:56	18° \mathbb{H} 59'06		greatest brilliancy	7308 Nov 26 17:42	13° \mathbb{B} 56'26	-4.8m
	7306 Apr 16 18:49	0° \mathbb{Y}		retrograde	7308 Dec 06 04:33	15° \mathbb{B} 33'54	
	7306 May 10 22:26	0° \mathbb{B}		evening set	7308 Dec 21 18:49	10° \mathbb{B} 52'21	
	7306 Jun 04 00:29	0° \mathbb{I}		inferior conj	7308 Dec 27 04:31	7° \mathbb{B} 38'38	-4°12'10
	7306 Jun 28 03:17	0° \mathbb{G}		minimum elong	7308 Dec 27 13:03	7° \mathbb{B} 25'27	4°09'45
morning set	7306 Jul 01 22:43	4° \mathbb{G} 43'56		min. Earth dist.	7308 Dec 28 00:46	7° \mathbb{B} 07'21	0.27855 AU
	7306 Jul 22 07:54	0° \mathbb{Q}		morning rise	7309 Jan 02 06:38	4° \mathbb{B} 01'09	
asc. node	7306 Jul 29 20:04	9° \mathbb{Q} 17'25			7309 Jan 12 16:55	30° \mathbb{R} \mathbb{A}	
				asc. node	7309 Jan 13 15:49	29° \mathbb{A} 50'15	
superior conj	7306 Aug 09 01:59	21° \mathbb{Q} 57'22	0°24'25	direct	7309 Jan 17 07:51	29° \mathbb{A} 33'43	
minimum elong	7306 Aug 08 20:46	21° \mathbb{Q} 41'15	0°24'07		7309 Jan 22 01:04	0° \mathbb{B}	
max. Earth dist.	7306 Aug 10 22:15	24° \mathbb{Q} 14'04	1.73000 AU	greatest brilliancy	7309 Jan 28 09:58	1° \mathbb{B} 51'47	-4.8m
	7306 Aug 15 14:20	0° \mathbb{P}			7309 Mar 06 09:25	0° \approx	
	7306 Sep 08 22:17	0° $\underline{\mathbb{A}}$		morning max el	7309 Mar 08 19:52	2° \approx 26'10	46°49'37
evening rise	7306 Sep 14 20:31	7° $\underline{\mathbb{A}}$ 17'34			7309 Apr 03 09:56	0° \mathbb{H}	
	7306 Oct 03 08:01	0° \mathbb{M}			7309 Apr 29 06:25	0° \mathbb{Y}	
	7306 Oct 27 20:24	0° \mathbb{A}		desc. node	7309 May 05 09:07	7° \mathbb{Y} 16'11	
desc. node	7306 Nov 18 13:11	26° \mathbb{A} 24'15			7309 May 24 06:35	0° \mathbb{B}	
	7306 Nov 21 12:21	0° \mathbb{B}			7309 Jun 17 21:57	0° \mathbb{I}	
	7306 Dec 16 08:32	0° \approx			7309 Jul 12 10:04	0° \mathbb{G}	
	7307 Jan 10 10:23	0° \mathbb{H}			7309 Aug 05 21:21	0° \mathbb{Q}	
	7307 Feb 04 23:14	0° \mathbb{Y}		asc. node	7309 Aug 26 08:08	25° \mathbb{Q} 05'21	
	7307 Mar 03 15:49	0° \mathbb{B}			7309 Aug 30 08:07	0° \mathbb{P}	
asc. node	7307 Mar 11 13:08	8° \mathbb{B} 21'45		morning set	7309 Sep 09 17:29	12° \mathbb{P} 45'44	
evening max el	7307 Mar 15 23:51	12° \mathbb{B} 55'27	47°02'56		7309 Sep 23 17:51	0° $\underline{\mathbb{A}}$	
	7307 Apr 03 06:19	0° \mathbb{I}		max. Earth dist.	7309 Oct 15 15:27	26° $\underline{\mathbb{A}}$ 58'36	1.73316 AU
greatest brilliancy	7307 Apr 25 16:52	14° \mathbb{I} 13'10	-4.9m				
retrograde	7307 May 05 15:53	16° \mathbb{I} 06'30		superior conj	7309 Oct 16 09:06	27° $\underline{\mathbb{A}}$ 53'01	1°25'01
evening set	7307 May 22 19:59	10° \mathbb{I} 25'02		minimum elong	7309 Oct 16 06:35	27° $\underline{\mathbb{A}}$ 45'14	1°25'02
inferior conj	7307 May 26 12:05	8° \mathbb{I} 10'53	7°40'05		7309 Oct 18 02:18	0° \mathbb{M}	
minimum elong	7307 May 26 22:08	7° \mathbb{I} 55'20	7°38'15		7309 Nov 11 09:56	0° \mathbb{A}	
min. Earth dist.	7307 May 26 12:08	8° \mathbb{I} 10'47	0.27367 AU	evening rise	7309 Nov 22 01:46	13° \mathbb{A} 09'15	
morning rise	7307 May 31 00:24	5° \mathbb{I} 27'20			7309 Dec 05 17:27	0° \mathbb{B}	
direct	7307 Jun 16 05:12	0° \mathbb{I} 20'23		desc. node	7309 Dec 16 00:56	12° \mathbb{B} 43'11	
greatest brilliancy	7307 Jun 25 23:36	2° \mathbb{I} 06'31	-4.8m		7309 Dec 30 01:06	0° \approx	
desc. node	7307 Jul 01 06:37	4° \mathbb{I} 20'53			7310 Jan 23 08:52	0° \mathbb{H}	
	7307 Aug 03 05:59	0° \mathbb{G}			7310 Feb 16 17:32	0° \mathbb{Y}	
morning max el	7307 Aug 04 18:13	1° \mathbb{G} 27'34	46°08'28		7310 Mar 13 06:05	0° \mathbb{B}	
	7307 Sep 01 04:26	0° \mathbb{Q}			7310 Apr 07 05:09	0° \mathbb{I}	
	7307 Sep 27 21:36	0° \mathbb{P}		asc. node	7310 Apr 08 00:51	0° \mathbb{I} 58'17	
asc. node	7307 Oct 22 06:21	28° \mathbb{P} 24'45			7310 May 03 04:08	0° \mathbb{G}	
	7307 Oct 23 14:34	0° $\underline{\mathbb{A}}$		evening max el	7310 May 27 03:38	25° \mathbb{G} 34'27	46°33'47
	7307 Nov 17 16:11	0° \mathbb{M}			7310 May 31 15:50	0° \mathbb{Q}	
	7307 Dec 12 07:08	0° \mathbb{A}		greatest brilliancy	7310 Jul 05 00:57	25° \mathbb{Q} 20'13	-4.8m
	7308 Jan 05 14:53	0° \mathbb{B}		retrograde	7310 Jul 16 03:50	27° \mathbb{Q} 36'13	
	7308 Jan 29 17:52	0° \approx		desc. node	7310 Jul 28 18:22	24° \mathbb{Q} 25'26	
morning set	7308 Jan 30 05:56	0° \approx 37'38		evening set	7310 Jul 31 01:43	23° \mathbb{Q} 13'38	
desc. node	7308 Feb 10 22:44	15° \approx 14'39		inferior conj	7310 Aug 06 10:14	19° \mathbb{Q} 24'59	-2°06'23
	7308 Feb 22 17:34	0° \mathbb{H}		minimum elong	7310 Aug 06 05:36	19° \mathbb{Q} 32'13	2°05'04
max. Earth dist.	7308 Mar 08 23:06	19° \mathbb{H} 06'43	1.71301 AU	min. Earth dist.	7310 Aug 05 19:51	19° \mathbb{Q} 47'27	0.28313 AU
				morning rise	7310 Aug 12 10:16	15° \mathbb{Q} 50'00	

direct	7310 Aug 27 16:41	11° Ω 21'42			7313 Apr 19 17:39	0° Π	
greatest brilliancy	7310 Sep 06 09:52	13° Ω 04'44	-4.7m	asc. node	7313 May 05 12:33	19° Π 26'44	
	7310 Oct 03 02:57	0° \mathbb{M}			7313 May 14 03:53	0° \mathfrak{S}	
morning max el	7310 Oct 15 09:19	11° \mathbb{M} 05'12	45°41'25		7313 Jun 08 02:36	0° Ω	
	7310 Nov 03 02:11	0° $\underline{\Omega}$			7313 Jul 03 23:43	0° \mathbb{M}	
asc. node	7310 Nov 18 18:23	17° $\underline{\Omega}$ 04'05			7313 Jul 31 21:35	0° $\underline{\Omega}$	
	7310 Nov 30 04:57	0° \mathbb{M}		evening max el	7313 Aug 05 18:03	4° $\underline{\Omega}$ 48'09	45°47'35
	7310 Dec 25 19:56	0° \mathfrak{X}		desc. node	7313 Aug 25 06:07	22° $\underline{\Omega}$ 00'39	
	7311 Jan 19 16:07	0° \mathfrak{Z}			7313 Sep 06 06:12	0° \mathbb{M}	
	7311 Feb 13 01:36	0° \approx		greatest brilliancy	7313 Sep 13 10:06	3° \mathbb{M} 16'57	-4.7m
	7311 Mar 09 04:43	0° \mathfrak{X}		retrograde	7313 Sep 23 19:15	5° \mathbb{M} 14'34	
desc. node	7311 Mar 10 10:49	1° \mathfrak{X} 33'59			7313 Oct 10 09:58	30° \mathfrak{R} $\underline{\Omega}$	
	7311 Apr 02 03:58	0° \mathfrak{Y}		evening set	7313 Oct 11 19:33	29° $\underline{\Omega}$ 10'23	
morning set	7311 Apr 16 05:48	17° \mathfrak{Y} 40'25		inferior conj	7313 Oct 15 09:01	26° $\underline{\Omega}$ 57'58	-8°30'30
	7311 Apr 26 01:20	0° \mathfrak{X}		minimum elong	7313 Oct 15 05:55	27° $\underline{\Omega}$ 02'52	8°30'19
	7311 May 19 22:54	0° Π		min. Earth dist.	7313 Oct 15 09:45	26° $\underline{\Omega}$ 56'50	0.29173 AU
				morning rise	7313 Oct 18 16:13	24° $\underline{\Omega}$ 54'44	
superior conj	7311 May 26 13:25	8° Π 16'28	-1°13'29	direct	7313 Nov 05 22:01	18° $\underline{\Omega}$ 39'17	
minimum elong	7311 May 26 23:56	8° Π 49'23	1°13'16	greatest brilliancy	7313 Nov 16 11:44	20° $\underline{\Omega}$ 40'14	-4.7m
max. Earth dist.	7311 May 30 01:18	12° Π 38'56	1.71670 AU		7313 Dec 02 22:21	0° \mathbb{M}	
	7311 Jun 12 22:33	0° \mathfrak{S}		asc. node	7313 Dec 16 06:00	10° \mathbb{M} 59'19	
asc. node	7311 Jul 01 10:10	23° \mathfrak{S} 00'06		morning max el	7313 Dec 25 06:52	19° \mathbb{M} 31'26	46°03'44
evening rise	7311 Jul 05 04:23	27° \mathfrak{S} 40'02			7314 Jan 04 14:05	0° \mathfrak{X}	
	7311 Jul 07 01:32	0° Ω			7314 Jan 31 17:20	0° \mathfrak{Z}	
	7311 Jul 31 08:30	0° \mathbb{M}			7314 Feb 26 04:50	0° \approx	
	7311 Aug 24 20:08	0° $\underline{\Omega}$			7314 Mar 22 22:16	0° \mathfrak{X}	
	7311 Sep 18 14:08	0° \mathbb{M}		desc. node	7314 Apr 06 22:58	18° \mathfrak{X} 29'30	
	7311 Oct 13 17:27	0° \mathfrak{X}			7314 Apr 16 06:17	0° \mathfrak{Y}	
desc. node	7311 Oct 21 03:24	8° \mathfrak{X} 43'49			7314 May 10 09:35	0° \mathfrak{X}	
	7311 Nov 08 10:36	0° \mathfrak{Z}			7314 Jun 03 11:24	0° Π	
	7311 Dec 05 02:45	0° \approx			7314 Jun 27 14:01	0° \mathfrak{S}	
evening max el	7311 Dec 30 18:14	26° \approx 50'07	46°29'00	morning set	7314 Jun 29 13:19	2° \mathfrak{S} 26'57	
	7312 Jan 03 00:19	0° \mathfrak{X}			7314 Jul 21 18:28	0° Ω	
greatest brilliancy	7312 Feb 08 19:47	26° \mathfrak{X} 51'46	-4.9m	asc. node	7314 Jul 28 22:06	8° Ω 51'07	
asc. node	7312 Feb 11 03:37	27° \mathfrak{X} 36'08					
retrograde	7312 Feb 18 16:29	28° \mathfrak{X} 41'08		superior conj	7314 Aug 06 18:15	19° Ω 46'58	0°21'09
evening set	7312 Mar 05 02:22	24° \mathfrak{X} 02'34		minimum elong	7314 Aug 06 13:40	19° Ω 32'48	0°20'53
inferior conj	7312 Mar 10 07:34	20° \mathfrak{X} 56'12	6°34'28	max. Earth dist.	7314 Aug 08 15:44	22° Ω 07'28	1.72966 AU
minimum elong	7312 Mar 09 20:30	21° \mathfrak{X} 13'13	6°31'58		7314 Aug 15 00:48	0° \mathbb{M}	
min. Earth dist.	7312 Mar 10 01:10	21° \mathfrak{X} 06'03	0.26902 AU		7314 Sep 08 08:45	0° $\underline{\Omega}$	
morning rise	7312 Mar 14 14:36	18° \mathfrak{X} 21'02		evening rise	7314 Sep 12 14:29	5° $\underline{\Omega}$ 12'59	
direct	7312 Mar 30 21:52	13° \mathfrak{X} 10'39			7314 Oct 02 18:37	0° \mathbb{M}	
greatest brilliancy	7312 Apr 09 14:57	14° \mathfrak{X} 57'24	-4.9m		7314 Oct 27 07:17	0° \mathfrak{X}	
	7312 May 03 06:15	0° \mathfrak{Y}		desc. node	7314 Nov 17 15:05	25° \mathfrak{X} 55'54	
morning max el	7312 May 20 06:59	15° \mathfrak{Y} 52'04	46°53'17		7314 Nov 20 23:40	0° \mathfrak{Z}	
desc. node	7312 Jun 01 20:53	28° \mathfrak{Y} 56'12			7314 Dec 15 20:31	0° \approx	
	7312 Jun 02 20:42	0° \mathfrak{X}			7315 Jan 09 23:25	0° \mathfrak{X}	
	7312 Jun 29 17:16	0° Π			7315 Feb 04 14:05	0° \mathfrak{Y}	
	7312 Jul 25 10:31	0° \mathfrak{S}			7315 Mar 03 10:44	0° \mathfrak{X}	
	7312 Aug 19 16:15	0° Ω		asc. node	7315 Mar 10 15:14	7° \mathfrak{X} 32'59	
	7312 Sep 13 15:17	0° \mathbb{M}		evening max el	7315 Mar 13 13:50	10° \mathfrak{X} 33'08	47°02'54
asc. node	7312 Sep 22 20:14	11° \mathbb{M} 08'26			7315 Apr 03 18:07	0° Π	
	7312 Oct 08 08:40	0° $\underline{\Omega}$		greatest brilliancy	7315 Apr 23 06:25	11° Π 49'41	-4.9m
	7312 Nov 01 20:51	0° \mathbb{M}		retrograde	7315 May 03 06:01	13° Π 43'33	
morning set	7312 Nov 17 03:32	18° \mathbb{M} 49'00		evening set	7315 May 20 12:46	7° Π 56'54	
	7312 Nov 26 04:48	0° \mathfrak{X}		inferior conj	7315 May 24 01:25	5° Π 47'59	7°52'34
	7312 Dec 20 09:52	0° \mathfrak{Z}		minimum elong	7315 May 24 11:06	5° Π 33'03	7°50'55
max. Earth dist.	7312 Dec 21 16:22	1° \mathfrak{Z} 34'40	1.72479 AU	min. Earth dist.	7315 May 24 01:07	5° Π 48'27	0.27351 AU
				morning rise	7315 May 28 09:34	3° Π 10'48	
superior conj	7312 Dec 24 09:17	4° \mathfrak{Z} 56'15	0°44'08		7315 Jun 03 18:31	30° \mathfrak{R} \mathfrak{X}	
minimum elong	7312 Dec 24 18:09	5° \mathfrak{Z} 23'46	0°43'50	direct	7315 Jun 13 18:35	27° \mathfrak{X} 57'40	
desc. node	7313 Jan 12 12:47	28° \mathfrak{Z} 44'52		greatest brilliancy	7315 Jun 23 12:00	29° \mathfrak{X} 43'33	-4.8m
	7313 Jan 13 12:55	0° \approx			7315 Jun 24 06:20	0° Π	
evening rise	7313 Feb 01 10:33	23° \approx 34'01		desc. node	7315 Jun 30 08:35	2° Π 46'17	
	7313 Feb 06 14:13	0° \mathfrak{X}		morning max el	7315 Aug 02 09:32	29° Π 12'34	46°10'06
	7313 Mar 02 14:14	0° \mathfrak{Y}			7315 Aug 03 04:59	0° \mathfrak{S}	
	7313 Mar 26 14:26	0° \mathfrak{X}			7315 Aug 31 20:18	0° Ω	





































































































































	7315 Sep 27 10:50	0°♎		asc. node	7318 Apr 07 02:45	0°♊22'56	
asc. node	7315 Oct 21 08:20	27°♎55'09			7318 May 02 20:33	0°♋	
	7315 Oct 23 02:30	0°♌		evening max el	7318 May 24 18:42	23°♋17'29	46°35'27
	7315 Nov 17 03:27	0°♍			7318 May 31 16:09	0°♌	
	7315 Dec 11 18:03	0°♎		greatest brilliancy	7318 Jul 02 17:48	23°♌07'21	-4.8m
	7316 Jan 05 01:38	0°♏		retrograde	7318 Jul 13 19:02	25°♌21'54	
morning set	7316 Jan 27 19:06	28°♏15'40		desc. node	7318 Jul 27 20:25	21°♌27'51	
	7316 Jan 29 04:34	0°♐		evening set	7318 Jul 28 16:53	21°♌00'21	
desc. node	7316 Feb 10 00:49	14°♐47'37		min. Earth dist.	7318 Aug 03 11:47	17°♌32'58	0.28266 AU
	7316 Feb 22 04:16	0°♑		inferior conj	7318 Aug 04 01:31	17°♌11'31	-1°45'46
max. Earth dist.	7316 Mar 06 08:28	16°♑31'40	1.71322 AU	minimum elong	7318 Aug 03 21:37	17°♌17'38	1°44'39
				morning rise	7318 Aug 10 03:04	13°♌34'10	
superior conj	7316 Mar 08 03:20	18°♑46'19	-0°59'54	direct	7318 Aug 25 07:28	9°♌08'59	
minimum elong	7316 Mar 07 15:32	18°♑09'16	0°59'27	greatest brilliancy	7318 Sep 04 00:46	10°♌51'47	-4.7m
	7316 Mar 17 01:45	0°♒			7318 Oct 03 07:35	0°♎	
	7316 Apr 09 22:23	0°♓		morning max el	7318 Oct 12 23:20	8°♎50'29	45°41'31
evening rise	7316 Apr 17 17:45	9°♓48'40			7318 Nov 02 19:09	0°♏	
	7316 May 03 20:09	0°♊		asc. node	7318 Nov 17 20:14	16°♏28'00	
	7316 May 27 21:19	0°♋			7318 Nov 29 18:40	0°♍	
asc. node	7316 Jun 02 00:17	6°♋21'24			7318 Dec 25 08:15	0°♎	
	7316 Jun 21 04:06	0°♌			7319 Jan 19 03:44	0°♏	
	7316 Jul 15 18:55	0°♍			7319 Feb 12 12:51	0°♐	
	7316 Aug 09 21:42	0°♎		desc. node	7319 Mar 08 15:47	0°♑	
desc. node	7316 Sep 04 20:32	0°♏			7319 Mar 09 12:51	1°♑05'45	
	7316 Sep 21 17:44	18°♏40'20		morning set	7319 Apr 01 14:56	0°♒	
evening max el	7316 Oct 02 10:48	0°♑			7319 Apr 13 16:11	15°♒07'59	
	7316 Oct 16 00:58	13°♑33'30	45°43'55		7319 Apr 25 12:13	0°♓	
	7316 Nov 03 22:57	0°♒			7319 May 19 09:44	0°♊	
greatest brilliancy	7316 Nov 24 07:36	11°♒41'02	-4.8m				
retrograde	7316 Dec 03 18:33	13°♒18'10		superior conj	7319 May 24 01:28	5°♊50'00	-1°15'30
evening set	7316 Dec 19 11:55	8°♒32'52		minimum elong	7319 May 24 11:34	6°♊21'40	1°15'20
inferior conj	7316 Dec 24 19:04	5°♒22'14	-4°31'01	max. Earth dist.	7319 May 27 10:34	10°♊03'53	1.71625 AU
minimum elong	7316 Dec 25 04:01	5°♒08'21	4°28'32		7319 Jun 12 09:21	0°♋	
min. Earth dist.	7316 Dec 25 15:28	4°♒50'38	0.27915 AU	asc. node	7319 Jun 30 12:10	22°♋32'47	
morning rise	7316 Dec 30 19:32	1°♒46'38		evening rise	7319 Jul 02 18:20	25°♋20'53	
	7317 Jan 03 08:04	30°♒♑			7319 Jul 06 12:21	0°♌	
asc. node	7317 Jan 12 17:51	27°♑22'44			7319 Jul 30 19:24	0°♍	
direct	7317 Jan 14 23:26	27°♑16'40			7319 Aug 24 07:16	0°♎	
greatest brilliancy	7317 Jan 26 01:00	29°♑34'05	-4.8m		7319 Sep 18 01:43	0°♏	
	7317 Jan 27 02:17	0°♒		desc. node	7319 Oct 13 05:51	0°♑	
	7317 Mar 06 07:50	0°♓			7319 Oct 20 05:17	8°♑12'03	
morning max el	7317 Mar 06 10:33	0°♓06'49	46°48'17		7319 Nov 08 00:28	0°♒	
	7317 Apr 03 01:58	0°♔			7319 Dec 04 19:34	0°♓	
	7317 Apr 28 20:07	0°♕		evening max el	7319 Dec 28 06:51	24°♓26'15	46°27'18
desc. node	7317 May 04 11:00	6°♕41'59			7320 Jan 03 01:33	0°♔	
	7317 May 23 19:05	0°♖		greatest brilliancy	7320 Feb 06 09:01	24°♔26'38	-4.9m
	7317 Jun 17 09:42	0°♊		asc. node	7320 Feb 10 05:38	25°♔34'16	
	7317 Jul 11 21:19	0°♋		retrograde	7320 Feb 16 04:43	26°♔15'37	
	7317 Aug 05 08:16	0°♌		evening set	7320 Mar 02 11:38	21°♔41'42	
asc. node	7317 Aug 25 10:10	24°♌38'37		inferior conj	7320 Mar 07 20:23	18°♔30'49	6°17'04
	7317 Aug 29 18:49	0°♍		minimum elong	7320 Mar 07 09:22	18°♔47'44	6°14'28
morning set	7317 Sep 07 10:29	10°♍37'53		min. Earth dist.	7320 Mar 07 14:49	18°♔39'22	0.26902 AU
	7317 Sep 23 04:25	0°♎		morning rise	7320 Mar 12 06:59	15°♔50'36	
max. Earth dist.	7317 Oct 13 10:24	24°♎56'40	1.73321 AU	direct	7320 Mar 28 10:20	10°♔44'45	
				greatest brilliancy	7320 Apr 07 05:36	12°♔33'24	-4.9m
superior conj	7317 Oct 14 02:53	25°♎47'28	1°24'30		7320 May 03 14:44	0°♕	
minimum elong	7317 Oct 13 23:42	25°♎37'37	1°24'32	morning max el	7320 May 17 19:51	13°♕26'35	46°54'11
	7317 Oct 17 12:49	0°♏		desc. node	7320 May 31 22:54	28°♕10'57	
	7317 Nov 10 20:30	0°♑			7320 Jun 02 15:16	0°♖	
evening rise	7317 Nov 19 18:16	10°♑59'17			7320 Jun 29 08:05	0°♊	
	7317 Dec 05 04:10	0°♒			7320 Jul 24 23:37	0°♋	
desc. node	7317 Dec 15 02:53	12°♒15'50			7320 Aug 19 04:21	0°♌	
	7317 Dec 29 12:06	0°♓			7320 Sep 13 02:44	0°♍	
	7318 Jan 22 20:14	0°♔		asc. node	7320 Sep 21 22:11	10°♖40'09	
	7318 Feb 16 05:24	0°♕			7320 Oct 07 19:43	0°♎	
	7318 Mar 12 18:41	0°♖			7320 Nov 01 07:40	0°♏	
	7318 Apr 06 18:59	0°♊		morning set	7320 Nov 14 20:20	16°♏39'26	

	7320 Nov 25 15:34	0°♊		inferior conj	7323 May 21 14:51	3°♊24'34	8°04'12
max. Earth dist.	7320 Dec 19 10:01	29°♊26'53	1.72521 AU	minimum elong	7323 May 22 00:04	3°♊10'21	8°02'45
	7320 Dec 19 20:41	0°♋		min. Earth dist.	7323 May 21 13:56	3°♊25'59	0.27329 AU
				morning rise	7323 May 25 18:41	0°♊53'49	
superior conj	7320 Dec 22 00:21	2°♋40'25	0°47'07		7323 May 27 08:49	30°♋8	
minimum elong	7320 Dec 22 09:33	3°♋08'57	0°46'49	direct	7323 Jun 11 08:21	25°♋34'46	
desc. node	7321 Jan 11 14:52	28°♋17'29		greatest brilliancy	7323 Jun 20 23:59	27°♋19'38	-4.8m
	7321 Jan 12 23:48	0°♌			7323 Jun 27 03:35	0°♊	
evening rise	7321 Jan 29 23:52	21°♌11'40		desc. node	7323 Jun 29 10:39	1°♊14'48	
	7321 Feb 06 01:12	0°♋		morning max el	7323 Jul 31 00:31	26°♊56'04	46°11'35
	7321 Mar 02 01:21	0°♌			7323 Aug 03 03:15	0°♋	
	7321 Mar 26 01:47	0°♋			7323 Aug 31 12:10	0°♌	
	7321 Apr 19 05:20	0°♊			7323 Sep 27 00:17	0°♎	
asc. node	7321 May 04 14:28	18°♊55'55		asc. node	7323 Oct 20 10:13	27°♎24'13	
	7321 May 13 16:06	0°♋			7323 Oct 22 14:46	0°♌	
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	7321 Jul 03 14:54	0°♎			7323 Dec 11 05:18	0°♊	
	7321 Jul 31 18:12	0°♌			7324 Jan 04 12:43	0°♋	
evening max el	7321 Aug 03 09:25	2°♌35'21	45°48'47	morning set	7324 Jan 25 08:18	25°♋52'51	
desc. node	7321 Aug 24 08:10	20°♌54'51			7324 Jan 28 15:36	0°♌	
	7321 Sep 08 07:13	0°♎		desc. node	7324 Feb 09 02:45	14°♌19'07	
greatest brilliancy	7321 Sep 11 00:14	1°♎05'21	-4.7m		7324 Feb 21 15:19	0°♋	
retrograde	7321 Sep 21 11:53	3°♎05'17		max. Earth dist.	7324 Mar 03 15:08	13°♋47'12	1.71347 AU
	7321 Oct 04 00:27	30°♋♌					
evening set	7321 Oct 09 09:35	27°♌03'44		superior conj	7324 Mar 05 14:20	16°♋15'21	-0°56'58
inferior conj	7321 Oct 13 01:18	24°♌48'05	-8°26'56	minimum elong	7324 Mar 05 02:43	15°♋38'55	0°56'30
minimum elong	7321 Oct 12 21:27	24°♌54'07	8°26'41		7324 Mar 16 12:50	0°♌	
min. Earth dist.	7321 Oct 13 00:36	24°♌49'11	0.29179 AU		7324 Apr 09 09:31	0°♋	
morning rise	7321 Oct 16 09:17	22°♌43'52		evening rise	7324 Apr 15 04:18	7°♋16'02	
direct	7321 Nov 03 14:23	16°♌29'25			7324 May 03 07:19	0°♊	
greatest brilliancy	7321 Nov 14 03:11	18°♌29'52	-4.7m		7324 May 27 08:34	0°♋	
	7321 Dec 03 11:47	0°♎		asc. node	7324 Jun 01 02:21	5°♋52'48	
asc. node	7321 Dec 15 08:08	10°♎05'17			7324 Jun 20 15:35	0°♌	
morning max el	7321 Dec 22 23:03	17°♎19'32	46°02'17		7324 Jul 15 06:50	0°♎	
	7322 Jan 04 08:39	0°♊			7324 Aug 09 10:29	0°♌	
	7322 Jan 31 07:59	0°♋			7324 Sep 04 11:03	0°♎	
	7322 Feb 25 17:53	0°♌		desc. node	7324 Sep 20 19:35	18°♎00'41	
	7322 Mar 22 10:27	0°♋			7324 Oct 02 05:39	0°♊	
desc. node	7322 Apr 06 00:52	17°♋58'39		evening max el	7324 Oct 13 15:51	11°♊19'41	45°42'58
	7322 Apr 15 17:58	0°♌			7324 Nov 04 14:25	0°♋	
	7322 May 09 20:56	0°♋		greatest brilliancy	7324 Nov 21 22:12	9°♋25'34	-4.8m
	7322 Jun 02 22:32	0°♊		retrograde	7324 Dec 01 08:13	11°♋01'51	
morning set	7322 Jun 27 04:03	0°♋09'36		evening set	7324 Dec 17 05:13	6°♋12'39	
	7322 Jun 27 00:58	0°♋		inferior conj	7324 Dec 22 09:46	3°♋05'21	-4°49'08
	7322 Jul 21 05:18	0°♌		minimum elong	7324 Dec 22 19:04	2°♋50'53	4°46'39
asc. node	7322 Jul 28 00:08	8°♌23'56		min. Earth dist.	7324 Dec 23 06:33	2°♋33'04	0.27977 AU
					7324 Dec 27 12:18	30°♋♊	
superior conj	7322 Aug 04 10:23	17°♌35'07	0°17'51	morning rise	7324 Dec 28 08:21	29°♊31'48	
minimum elong	7322 Aug 04 06:28	17°♌23'02	0°17'35	asc. node	7325 Jan 11 19:51	24°♊59'47	
max. Earth dist.	7322 Aug 06 10:33	20°♌03'59	1.72936 AU	direct	7325 Jan 12 14:39	24°♊59'03	
	7322 Aug 14 11:34	0°♎		greatest brilliancy	7325 Jan 23 16:32	27°♊16'14	-4.8m
	7322 Sep 07 19:34	0°♌			7325 Jan 29 10:30	0°♋	
evening rise	7322 Sep 10 08:15	3°♌06'43		morning max el	7325 Mar 04 00:15	27°♋44'04	46°46'56
	7322 Oct 02 05:35	0°♎			7325 Mar 06 05:46	0°♌	
	7322 Oct 26 18:31	0°♊			7325 Apr 02 18:05	0°♋	
desc. node	7322 Nov 16 17:04	25°♊26'43			7325 Apr 28 10:01	0°♌	
	7322 Nov 20 11:22	0°♋		desc. node	7325 May 03 12:57	6°♌07'12	
	7322 Dec 15 08:56	0°♌			7325 May 23 07:50	0°♋	
	7323 Jan 09 12:56	0°♋			7325 Jun 16 21:43	0°♊	
	7323 Feb 04 05:34	0°♌			7325 Jul 11 08:49	0°♋	
	7323 Mar 03 06:39	0°♋			7325 Aug 04 19:24	0°♌	
asc. node	7323 Mar 09 17:12	6°♋41'51		asc. node	7325 Aug 24 12:03	24°♌10'52	
evening max el	7323 Mar 11 04:42	8°♋12'01	47°02'50		7325 Aug 29 05:43	0°♎	
	7323 Apr 04 10:27	0°♊		morning set	7325 Sep 05 03:47	8°♎30'18	
greatest brilliancy	7323 Apr 20 19:59	9°♊25'36	-4.9m		7325 Sep 22 15:11	0°♌	
retrograde	7323 Apr 30 20:25	11°♊19'52		max. Earth dist.	7325 Oct 11 04:26	22°♌51'14	1.73332 AU
evening set	7323 May 18 05:38	5°♊28'26					

superior conj	7325 Oct 11 20:58	23° Ω 42'11	1°23'54			7328 May 03 21:03	0° Υ	
minimum elong	7325 Oct 11 17:08	23° Ω 30'23	1°23'54	morning max el		7328 May 15 09:35	11° Υ 02'51	46°55'06
	7325 Oct 16 23:34	0° \mathbb{L}		desc. node		7328 May 31 01:00	27° Υ 26'15	
	7325 Nov 10 07:20	0° \mathcal{A}				7328 Jun 02 09:30	0° \mathcal{B}	
evening rise	7325 Nov 17 10:57	8° \mathcal{A} 49'07				7328 Jun 28 22:48	0° \mathbb{I}	
	7325 Dec 04 15:12	0° \mathcal{B}				7328 Jul 24 12:39	0° \mathcal{C}	
desc. node	7325 Dec 14 04:58	11° \mathcal{B} 47'55				7328 Aug 18 16:24	0° Ω	
	7325 Dec 28 23:24	0° \approx				7328 Sep 12 14:09	0° \mathbb{P}	
	7326 Jan 22 07:55	0° \mathcal{H}		asc. node		7328 Sep 21 00:07	10° \mathbb{P} 11'51	
	7326 Feb 15 17:35	0° Υ				7328 Oct 07 06:43	0° Ω	
	7326 Mar 12 07:37	0° \mathcal{B}				7328 Oct 31 18:27	0° \mathbb{L}	
asc. node	7326 Apr 06 04:42	29° \mathcal{B} 46'39		morning set		7328 Nov 12 13:39	14° \mathbb{L} 31'46	
	7326 Apr 06 09:14	0° \mathbb{I}				7328 Nov 25 02:16	0° \mathcal{A}	
	7326 May 02 13:35	0° \mathcal{C}		max. Earth dist.		7328 Dec 17 05:33	27° \mathcal{A} 25'18	1.72563 AU
evening max el	7326 May 22 08:56	20° \mathcal{C} 57'29	46°37'07			7328 Dec 19 07:24	0° \mathcal{B}	
	7326 May 31 18:06	0° Ω						
greatest brilliancy	7326 Jun 30 10:53	20° Ω 53'59	-4.8m	superior conj		7328 Dec 19 15:54	0° \mathcal{B} 26'22	0°49'58
retrograde	7326 Jul 11 10:12	23° Ω 07'18		minimum elong		7328 Dec 20 01:21	0° \mathcal{B} 55'43	0°49'41
evening set	7326 Jul 26 08:19	18° Ω 46'17		desc. node		7329 Jan 10 16:50	27° \mathcal{B} 49'56	
desc. node	7326 Jul 26 22:23	18° Ω 26'47				7329 Jan 12 10:38	0° \approx	
min. Earth dist.	7326 Aug 01 04:02	15° Ω 17'54	0.28217 AU	evening rise		7329 Jan 27 13:27	18° \approx 50'18	
inferior conj	7326 Aug 01 16:55	14° Ω 57'47	-1°25'02			7329 Feb 05 12:11	0° \mathcal{H}	
minimum elong	7326 Aug 01 13:45	15° Ω 02'44	1°24'08			7329 Mar 01 12:32	0° Υ	
morning rise	7326 Aug 07 19:50	11° Ω 18'20				7329 Mar 25 13:12	0° \mathcal{B}	
direct	7326 Aug 22 21:55	6° Ω 55'53				7329 Apr 18 17:06	0° \mathbb{I}	
greatest brilliancy	7326 Sep 01 16:10	8° Ω 39'10	-4.7m	asc. node		7329 May 03 16:33	18° \mathbb{I} 25'25	
	7326 Oct 03 10:33	0° \mathbb{P}				7329 May 13 04:24	0° \mathcal{C}	
morning max el	7326 Oct 10 13:21	6° \mathbb{P} 35'29	45°41'46			7329 Jun 07 05:04	0° Ω	
	7326 Nov 02 11:51	0° Ω				7329 Jul 03 06:16	0° \mathbb{P}	
asc. node	7326 Nov 16 22:21	15° Ω 52'37				7329 Jul 31 15:30	0° Ω	
	7326 Nov 29 08:23	0° \mathbb{L}		evening max el		7329 Aug 01 01:36	0° Ω 24'39	45°50'03
	7326 Dec 24 20:40	0° \mathcal{A}		desc. node		7329 Aug 23 10:05	19° Ω 47'11	
	7327 Jan 18 15:32	0° \mathcal{B}		greatest brilliancy		7329 Sep 08 14:32	28° Ω 54'17	-4.7m
	7327 Feb 12 00:20	0° \approx				7329 Sep 12 02:42	0° \mathbb{L}	
	7327 Mar 08 03:04	0° \mathcal{H}		retrograde		7329 Sep 19 04:45	0° \mathbb{L} 56'14	
desc. node	7327 Mar 08 14:46	0° \mathcal{H} 36'31				7329 Sep 26 00:57	30° \mathcal{R} Ω	
	7327 Apr 01 02:05	0° Υ		evening set		7329 Oct 06 23:30	24° Ω 57'54	
morning set	7327 Apr 11 02:23	12° Υ 34'22		inferior conj		7329 Oct 10 17:35	22° Ω 38'38	-8°22'47
	7327 Apr 24 23:17	0° \mathcal{B}		minimum elong		7329 Oct 10 13:02	22° Ω 45'46	8°22'26
	7327 May 18 20:43	0° \mathbb{I}		min. Earth dist.		7329 Oct 10 15:13	22° Ω 42'20	0.29177 AU
				morning rise		7329 Oct 14 02:35	20° Ω 33'02	
superior conj	7327 May 21 13:23	3° \mathbb{I} 22'37	-1°17'23	direct		7329 Nov 01 07:05	14° Ω 20'18	
minimum elong	7327 May 21 23:01	3° \mathbb{I} 52'48	1°17'15	greatest brilliancy		7329 Nov 11 17:55	16° Ω 19'23	-4.7m
max. Earth dist.	7327 May 24 17:38	7° \mathbb{I} 21'24	1.71583 AU			7329 Dec 03 21:24	0° \mathbb{L}	
	7327 Jun 11 20:20	0° \mathcal{C}		asc. node		7329 Dec 14 10:04	9° \mathbb{L} 12'34	
asc. node	7327 Jun 29 14:13	22° \mathcal{C} 05'05		morning max el		7329 Dec 20 15:19	15° \mathbb{L} 08'50	46°00'55
evening rise	7327 Jun 30 08:14	23° \mathcal{C} 00'59				7330 Jan 04 02:28	0° \mathcal{A}	
	7327 Jul 05 23:21	0° Ω				7330 Jan 30 22:13	0° \mathcal{B}	
	7327 Jul 30 06:28	0° \mathbb{P}				7330 Feb 25 06:38	0° \approx	
	7327 Aug 23 18:31	0° Ω				7330 Mar 21 22:28	0° \mathcal{H}	
	7327 Sep 17 13:24	0° \mathbb{L}		desc. node		7330 Apr 05 02:53	17° \mathcal{H} 28'36	
	7327 Oct 12 18:21	0° \mathcal{A}				7330 Apr 15 05:32	0° Υ	
desc. node	7327 Oct 19 07:19	7° \mathcal{A} 40'34				7330 May 09 08:13	0° \mathcal{B}	
	7327 Nov 07 14:30	0° \mathcal{B}				7330 Jun 02 09:35	0° \mathbb{I}	
	7327 Dec 04 12:48	0° \approx		morning set		7330 Jun 24 18:15	27° \mathbb{I} 50'47	
evening max el	7327 Dec 25 19:48	22° \approx 03'06	46°25'25			7330 Jun 26 11:49	0° \mathcal{C}	
	7328 Jan 03 04:23	0° \mathcal{H}				7330 Jul 20 16:00	0° Ω	
greatest brilliancy	7328 Feb 03 21:36	22° \mathcal{H} 00'05	-4.9m	asc. node		7330 Jul 27 01:59	7° Ω 56'35	
asc. node	7328 Feb 09 07:35	23° \mathcal{H} 26'26						
retrograde	7328 Feb 13 17:24	23° \mathcal{H} 49'25		superior conj		7330 Aug 02 02:04	15° Ω 22'12	0°14'28
evening set	7328 Feb 28 20:59	19° \mathcal{H} 19'35		minimum elong		7330 Aug 01 22:51	15° Ω 12'17	0°14'14
inferior conj	7328 Mar 05 09:04	16° \mathcal{H} 04'28	5°58'51	behind sun begin		7330 Aug 01 12:01	14° Ω 38'47	
minimum elong	7328 Mar 04 22:10	16° \mathcal{H} 21'09	5°56'10	behind sun end		7330 Aug 02 09:41	15° Ω 45'47	
min. Earth dist.	7328 Mar 05 04:07	16° \mathcal{H} 12'03	0.26907 AU	max. Earth dist.		7330 Aug 04 06:44	18° Ω 05'02	1.72901 AU
morning rise	7328 Mar 09 23:14	13° \mathcal{H} 19'26				7330 Aug 13 22:13	0° \mathbb{P}	
direct	7328 Mar 25 23:02	8° \mathcal{H} 17'54				7330 Sep 07 06:14	0° Ω	
greatest brilliancy	7328 Apr 04 19:46	10° \mathcal{H} 08'08	-4.9m	evening rise		7330 Sep 08 01:51	1° Ω 00'21	

	7330 Oct 01 16:24	0°♌			7333 Mar 06 02:25	0°♏	
	7330 Oct 26 05:36	0°♊			7333 Apr 02 09:26	0°♎	
desc. node	7330 Nov 15 19:10	24°♊58'32			7333 Apr 27 23:19	0°♎	
	7330 Nov 19 22:52	0°♊		desc. node	7333 May 02 15:04	5°♎34'29	
	7330 Dec 14 21:06	0°♏			7333 May 22 20:03	0°♎	
	7331 Jan 09 02:14	0°♎			7333 Jun 16 09:18	0°♎	
	7331 Feb 03 20:54	0°♎			7333 Jul 10 19:58	0°♎	
	7331 Mar 03 02:51	0°♎			7333 Aug 04 06:14	0°♎	
asc. node	7331 Mar 08 19:07	5°♎50'29		asc. node	7333 Aug 23 14:04	23°♎44'17	
evening max el	7331 Mar 08 19:27	5°♎51'19	47°02'22		7333 Aug 28 16:20	0°♎	
	7331 Apr 05 08:11	0°♎		morning set	7333 Sep 02 20:37	6°♎21'58	
greatest brilliancy	7331 Apr 18 09:40	7°♎01'49	-4.9m		7333 Sep 22 01:41	0°♎	
retrograde	7331 Apr 28 10:13	8°♎55'42		max. Earth dist.	7333 Oct 08 21:49	20°♎44'43	1.73340 AU
evening set	7331 May 15 22:13	2°♎59'56					
inferior conj	7331 May 19 04:05	1°♎00'53	8°15'06	superior conj	7333 Oct 09 14:41	21°♎36'41	1°23'10
minimum elong	7331 May 19 12:46	0°♎47'29	8°13'49	minimum elong	7333 Oct 09 10:13	21°♎22'56	1°23'08
min. Earth dist.	7331 May 19 02:41	1°♎03'03	0.27311 AU		7333 Oct 16 10:01	0°♌	
	7331 May 20 19:40	30°♎8			7333 Nov 09 17:52	0°♊	
morning rise	7331 May 23 03:29	28°♎36'29		evening rise	7333 Nov 15 03:30	6°♊39'31	
direct	7331 Jun 08 21:55	23°♎11'40			7333 Dec 04 01:56	0°♊	
greatest brilliancy	7331 Jun 18 11:59	24°♎55'22	-4.8m	desc. node	7333 Dec 13 06:53	11°♊20'29	
desc. node	7331 Jun 28 12:36	29°♎46'11			7333 Dec 28 10:25	0°♏	
	7331 Jun 28 21:40	0°♎			7334 Jan 21 19:18	0°♎	
morning max el	7331 Jul 28 14:23	24°♎36'54	46°13'06		7334 Feb 15 05:26	0°♎	
	7331 Aug 03 00:34	0°♎			7334 Mar 11 20:11	0°♎	
	7331 Aug 31 03:37	0°♎		asc. node	7334 Apr 05 06:49	29°♎12'08	
	7331 Sep 26 13:24	0°♎			7334 Apr 05 23:07	0°♎	
asc. node	7331 Oct 19 12:17	26°♎54'40			7334 May 02 06:25	0°♎	
	7331 Oct 22 02:43	0°♎		evening max el	7334 May 19 22:28	18°♎37'09	46°38'42
	7331 Nov 16 02:22	0°♌			7334 May 31 20:57	0°♎	
	7331 Dec 10 16:16	0°♊		greatest brilliancy	7334 Jun 28 03:26	18°♎40'55	-4.8m
	7332 Jan 03 23:29	0°♊		retrograde	7334 Jul 09 01:30	20°♎53'41	
morning set	7332 Jan 22 22:05	23°♊32'54		evening set	7334 Jul 23 23:47	16°♎32'29	
	7332 Jan 28 02:17	0°♏		desc. node	7334 Jul 26 00:21	15°♎23'34	
desc. node	7332 Feb 08 04:42	13°♏51'49		inferior conj	7334 Jul 30 08:14	12°♎44'41	-1°03'56
	7332 Feb 21 01:59	0°♎		minimum elong	7334 Jul 30 05:50	12°♎48'25	1°03'15
max. Earth dist.	7332 Feb 29 21:39	11°♎03'35	1.71372 AU	min. Earth dist.	7334 Jul 29 20:11	13°♎03'28	0.28177 AU
				morning rise	7334 Aug 05 12:26	9°♎03'31	
superior conj	7332 Mar 03 01:55	13°♎47'35	-0°53'57	direct	7334 Aug 20 12:13	4°♎43'07	
minimum elong	7332 Mar 02 14:35	13°♎12'01	0°53'28	greatest brilliancy	7334 Aug 30 07:53	6°♎27'26	-4.7m
	7332 Mar 15 23:33	0°♎			7334 Oct 03 11:47	0°♎	
	7332 Apr 08 20:17	0°♎		morning max el	7334 Oct 08 04:00	4°♎22'34	45°42'02
evening rise	7332 Apr 12 15:06	4°♎45'20			7334 Nov 02 04:00	0°♎	
	7332 May 02 18:10	0°♎		asc. node	7334 Nov 16 00:20	15°♎17'45	
	7332 May 26 19:35	0°♎			7334 Nov 28 21:43	0°♌	
asc. node	7332 May 31 04:19	5°♎24'40			7334 Dec 24 08:45	0°♊	
	7332 Jun 20 02:52	0°♎			7335 Jan 18 03:00	0°♊	
	7332 Jul 14 18:36	0°♎			7335 Feb 11 11:29	0°♏	
	7332 Aug 08 23:08	0°♎		desc. node	7335 Mar 07 16:46	0°♎08'34	
	7332 Sep 04 01:32	0°♌			7335 Mar 07 14:02	0°♎	
desc. node	7332 Sep 19 21:40	17°♌21'50			7335 Mar 31 12:53	0°♎	
	7332 Oct 02 00:45	0°♊		morning set	7335 Apr 08 12:46	10°♎02'22	
evening max el	7332 Oct 11 05:41	9°♊04'08	45°42'10		7335 Apr 24 09:59	0°♎	
	7332 Nov 05 10:44	0°♊			7335 May 18 07:21	0°♎	
greatest brilliancy	7332 Nov 19 13:04	7°♊11'18	-4.8m				
retrograde	7332 Nov 28 21:46	8°♊46'43		superior conj	7335 May 19 01:34	0°♎57'08	-1°19'07
evening set	7332 Dec 14 22:32	3°♊53'17		minimum elong	7335 May 19 10:39	1°♎25'34	1°19'00
inferior conj	7332 Dec 20 00:29	0°♊49'37	-5°06'50	max. Earth dist.	7335 May 22 01:01	4°♎41'01	1.71542 AU
minimum elong	7332 Dec 20 10:05	0°♊34'40	5°04'21		7335 Jun 11 06:55	0°♎	
min. Earth dist.	7332 Dec 20 21:53	0°♊16'20	0.28035 AU	evening rise	7335 Jun 27 22:22	20°♎43'01	
	7332 Dec 21 08:24	30°♎8		asc. node	7335 Jun 28 16:05	21°♎38'02	
morning rise	7332 Dec 25 20:58	27°♎18'29			7335 Jul 05 09:58	0°♎	
direct	7333 Jan 10 05:25	22°♎42'24			7335 Jul 29 17:11	0°♎	
asc. node	7333 Jan 10 21:46	22°♎42'57			7335 Aug 23 05:30	0°♎	
greatest brilliancy	7333 Jan 21 08:32	25°♎00'08	-4.8m		7335 Sep 17 00:54	0°♌	
	7333 Jan 30 22:04	0°♊			7335 Oct 12 06:44	0°♊	
morning max el	7333 Mar 01 13:40	25°♊21'51	46°45'52	desc. node	7335 Oct 18 09:22	7°♊09'31	

	7335 Nov 07 04:30	0°☾				7338 Jun 25 22:41	0°☾	
	7335 Dec 04 06:11	0°☾				7338 Jul 20 02:43	0°☾	
evening max el	7335 Dec 23 09:29	19°☾42'40	46°23'41	asc. node		7338 Jul 26 04:03	7°☾29'52	
	7336 Jan 03 08:38	0°☾						
greatest brilliancy	7336 Feb 01 09:47	19°☾33'58	-4.9m	superior conj		7338 Jul 30 17:58	13°☾09'54	0°11'04
asc. node	7336 Feb 08 09:35	21°☾14'01		minimum elong		7338 Jul 30 15:29	13°☾02'15	0°10'53
retrograde	7336 Feb 11 06:35	21°☾23'53		behind sun begin		7338 Jul 29 21:58	12°☾08'03	
evening set	7336 Feb 26 06:34	16°☾57'54		behind sun end		7338 Jul 31 09:01	13°☾56'27	
inferior conj	7336 Mar 02 21:42	13°☾38'42	5°39'57	max. Earth dist.		7338 Aug 02 03:26	16°☾07'37	1.72860 AU
minimum elong	7336 Mar 02 11:02	13°☾55'01	5°37'14			7338 Aug 13 08:51	0°☾	
min. Earth dist.	7336 Mar 02 17:09	13°☾45'40	0.26910 AU	evening rise		7338 Sep 05 19:44	28°☾54'52	
morning rise	7336 Mar 07 15:23	10°☾48'59				7338 Sep 06 16:54	0°☾	
direct	7336 Mar 23 12:12	5°☾51'48				7338 Oct 01 03:12	0°☾	
greatest brilliancy	7336 Apr 02 09:23	7°☾42'55	-4.9m			7338 Oct 25 16:42	0°☾	
	7336 May 04 01:03	0°☾		desc. node		7338 Nov 14 21:04	24°☾29'30	
morning max el	7336 May 13 00:03	8°☾41'47	46°56'03			7338 Nov 19 10:29	0°☾	
desc. node	7336 May 30 02:53	26°☾42'19				7338 Dec 14 09:29	0°☾	
	7336 Jun 02 03:00	0°☾				7339 Jan 08 15:50	0°☾	
	7336 Jun 28 13:01	0°☾				7339 Feb 03 12:44	0°☾	
	7336 Jul 24 01:17	0°☾				7339 Mar 02 23:59	0°☾	
	7336 Aug 18 04:06	0°☾		evening max el		7339 Mar 06 09:28	3°☾28'06	47°01'56
	7336 Sep 12 01:17	0°☾		asc. node		7339 Mar 07 21:14	4°☾58'02	
asc. node	7336 Sep 20 02:10	9°☾44'39				7339 Apr 06 14:34	0°☾	
	7336 Oct 06 17:31	0°☾		greatest brilliancy		7339 Apr 15 23:58	4°☾38'15	-4.9m
	7336 Oct 31 05:04	0°☾		retrograde		7339 Apr 25 23:33	6°☾31'03	
morning set	7336 Nov 10 06:48	12°☾24'01		evening set		7339 May 13 14:45	0°☾31'16	
	7336 Nov 24 12:51	0°☾				7339 May 14 11:25	30°☾	
max. Earth dist.	7336 Dec 14 23:27	25°☾19'00	1.72602 AU	inferior conj		7339 May 16 17:22	28°☾36'53	8°25'06
				minimum elong		7339 May 17 01:27	28°☾24'23	8°24'01
superior conj	7336 Dec 17 07:15	28°☾12'04	0°52'46	min. Earth dist.		7339 May 16 15:44	28°☾39'26	0.27290 AU
minimum elong	7336 Dec 17 16:54	28°☾42'01	0°52'28	morning rise		7339 May 20 12:17	26°☾18'49	
	7336 Dec 18 18:02	0°☾		direct		7339 Jun 06 11:03	20°☾48'11	
desc. node	7337 Jan 09 18:45	27°☾22'36		greatest brilliancy		7339 Jun 16 00:24	22°☾31'02	-4.8m
	7337 Jan 11 21:21	0°☾		desc. node		7339 Jun 27 14:37	28°☾20'15	
evening rise	7337 Jan 25 02:48	16°☾28'37				7339 Jun 30 02:58	0°☾	
	7337 Feb 04 23:03	0°☾		morning max el		7339 Jul 26 03:32	22°☾15'23	46°14'45
	7337 Feb 28 23:35	0°☾				7339 Aug 02 21:18	0°☾	
	7337 Mar 25 00:31	0°☾				7339 Aug 30 18:57	0°☾	
	7337 Apr 18 04:46	0°☾		asc. node		7339 Sep 26 02:32	0°☾	
asc. node	7337 May 02 18:29	17°☾54'48				7339 Oct 18 14:15	26°☾24'37	
	7337 May 12 16:37	0°☾				7339 Oct 21 14:43	0°☾	
	7337 Jun 06 18:16	0°☾				7339 Nov 15 13:46	0°☾	
	7337 Jul 02 21:39	0°☾				7339 Dec 10 03:21	0°☾	
evening max el	7337 Jul 29 18:11	28°☾15'30	45°51'19			7340 Jan 03 10:26	0°☾	
	7337 Jul 31 13:20	0°☾		morning set		7340 Jan 20 11:47	21°☾11'57	
desc. node	7337 Aug 22 12:09	18°☾38'39				7340 Jan 27 13:13	0°☾	
greatest brilliancy	7337 Sep 06 05:23	26°☾44'37	-4.7m	desc. node		7340 Feb 07 06:47	13°☾24'06	
retrograde	7337 Sep 16 21:27	28°☾47'48				7340 Feb 20 12:58	0°☾	
evening set	7337 Oct 04 13:22	22°☾53'12		max. Earth dist.		7340 Feb 27 02:46	8°☾14'41	1.71404 AU
inferior conj	7337 Oct 08 09:58	20°☾29'53	-8°17'54					
minimum elong	7337 Oct 08 04:47	20°☾38'02	8°17'27	superior conj		7340 Feb 29 13:13	11°☾17'59	-0°50'48
min. Earth dist.	7337 Oct 08 06:03	20°☾36'03	0.29176 AU	minimum elong		7340 Feb 29 02:14	10°☾43'32	0°50'18
morning rise	7337 Oct 11 20:15	18°☾22'20				7340 Mar 15 10:34	0°☾	
direct	7337 Oct 30 00:04	12°☾11'58				7340 Apr 08 07:21	0°☾	
greatest brilliancy	7337 Nov 09 08:25	14°☾08'59	-4.7m	evening rise		7340 Apr 10 01:32	2°☾12'30	
	7337 Dec 04 04:19	0°☾				7340 May 02 05:19	0°☾	
asc. node	7337 Dec 13 12:00	8°☾20'46				7340 May 26 06:53	0°☾	
morning max el	7337 Dec 18 07:12	12°☾57'13	45°59'23	asc. node		7340 May 30 06:14	4°☾55'33	
	7338 Jan 03 19:57	0°☾				7340 Jun 19 14:26	0°☾	
	7338 Jan 30 12:22	0°☾				7340 Jul 14 06:40	0°☾	
	7338 Feb 24 19:22	0°☾				7340 Aug 08 12:07	0°☾	
	7338 Mar 21 10:27	0°☾				7340 Sep 03 16:25	0°☾	
desc. node	7338 Apr 04 04:56	16°☾58'43		desc. node		7340 Sep 18 23:44	16°☾41'58	
	7338 Apr 14 17:05	0°☾				7340 Oct 01 20:38	0°☾	
	7338 May 08 19:29	0°☾		evening max el		7340 Oct 08 19:14	6°☾47'35	45°41'34
	7338 Jun 01 20:38	0°☾				7340 Nov 06 14:42	0°☾	
morning set	7338 Jun 22 08:33	25°☾32'12		greatest brilliancy		7340 Nov 17 03:48	4°☾57'02	-4.8m

retrograde	7340 Nov 26 11:51	6°  32'16		minimum elong	7343 May 16 21:41	28°  54'57	1°20'37
evening set	7340 Dec 12 16:09	1°  34'06			7343 May 17 18:26	0°  II	
	7340 Dec 15 07:55	30°  R 		max. Earth dist.	7343 May 19 08:15	1°  II58'34	1.71508 AU
inferior conj	7340 Dec 17 15:29	28°  R34'15	-5°23'44		7343 Jun 10 18:00	0°  ☾	
minimum elong	7340 Dec 18 01:19	28°  R18'56	5°21'15	evening rise	7343 Jun 25 11:53	18°  ☾21'36	
min. Earth dist.	7340 Dec 18 13:22	28°  R00'12	0.28100 AU	asc. node	7343 Jun 27 18:08	21°  ☾10'04	
morning rise	7340 Dec 23 09:48	25°  R05'56			7343 Jul 04 21:03	0°  Ω	
direct	7341 Jan 07 20:19	20°  R25'55			7343 Jul 29 04:22	0°  ♍	
asc. node	7341 Jan 09 23:49	20°  R31'21			7343 Aug 22 16:56	0°  ♌	
greatest brilliancy	7341 Jan 19 01:02	22°  R44'41	-4.8m		7343 Sep 16 12:50	0°  ♍	
	7341 Jan 31 23:23	0°  ☾			7343 Oct 11 19:35	0°  R	
morning max el	7341 Feb 27 04:01	23°  ☾01'03	46°44'30	desc. node	7343 Oct 17 11:15	6°  R36'45	
	7341 Mar 05 22:48	0°  ≈			7343 Nov 06 19:01	0°  ☾	
	7341 Apr 02 01:02	0°  R			7343 Dec 04 00:18	0°  ≈	
	7341 Apr 27 12:58	0°  Y		evening max el	7343 Dec 21 00:24	17°  ≈24'51	46°22'04
desc. node	7341 May 01 16:57	4°  Y59'47			7344 Jan 03 15:04	0°  R	
	7341 May 22 08:39	0°  R		greatest brilliancy	7344 Jan 29 22:13	17°  R08'22	-4.9m
	7341 Jun 15 21:13	0°  II		asc. node	7344 Feb 07 11:37	18°  R56'26	
	7341 Jul 10 07:26	0°  ☾		retrograde	7344 Feb 08 20:03	18°  R58'38	
	7341 Aug 03 17:24	0°  Ω		evening set	7344 Feb 23 16:49	14°  R36'27	
asc. node	7341 Aug 22 16:05	23°  Ω16'43		inferior conj	7344 Feb 29 10:38	11°  R13'20	5°20'32
	7341 Aug 28 03:17	0°  ♍		minimum elong	7344 Feb 29 00:17	11°  R29'11	5°17'49
morning set	7341 Aug 31 13:29	4°  ♍12'42		min. Earth dist.	7344 Feb 29 06:22	11°  R19'52	0.26915 AU
	7341 Sep 21 12:30	0°  ♌		morning rise	7344 Mar 05 07:42	8°  R18'59	
max. Earth dist.	7341 Oct 06 16:30	18°  ♌41'11	1.73345 AU	direct	7344 Mar 21 02:01	3°  R26'20	
				greatest brilliancy	7344 Mar 30 22:54	5°  R17'35	-4.9m
superior conj	7341 Oct 07 08:39	19°  ♌30'56	1°22'19		7344 May 04 03:40	0°  Y	
minimum elong	7341 Oct 07 03:34	19°  ♌15'17	1°22'16	morning max el	7344 May 10 14:31	6°  Y20'03	46°56'33
	7341 Oct 15 20:48	0°  ♍		desc. node	7344 May 29 04:54	25°  Y58'24	
	7341 Nov 09 04:43	0°  R			7344 Jun 01 20:29	0°  R	
evening rise	7341 Nov 12 20:31	4°  R30'34			7344 Jun 28 03:31	0°  II	
	7341 Dec 03 12:57	0°  ☾			7344 Jul 23 14:17	0°  ☾	
desc. node	7341 Dec 12 08:52	10°  ☾52'26			7344 Aug 17 16:12	0°  Ω	
	7341 Dec 27 21:44	0°  ≈			7344 Sep 11 12:47	0°  ♍	
	7342 Jan 21 07:01	0°  R		asc. node	7344 Sep 19 04:07	9°  ♍16'02	
	7342 Feb 14 17:42	0°  Y			7344 Oct 06 04:38	0°  ♌	
	7342 Mar 11 09:18	0°  R			7344 Oct 30 16:00	0°  ♍	
asc. node	7342 Apr 04 08:42	28°  R35'01		morning set	7344 Nov 07 23:56	10°  ♍15'22	
	7342 Apr 05 13:43	0°  II			7344 Nov 23 23:43	0°  R	
	7342 May 02 00:16	0°  ☾		max. Earth dist.	7344 Dec 12 15:46	23°  R07'03	1.72638 AU
evening max el	7342 May 17 12:29	16°  ☾16'14	46°40'25				
	7342 Jun 01 02:23	0°  Ω		superior conj	7344 Dec 14 22:50	25°  R57'49	0°55'27
greatest brilliancy	7342 Jun 25 19:23	16°  Ω25'13	-4.8m	minimum elong	7344 Dec 15 08:37	26°  R28'07	0°55'10
retrograde	7342 Jul 06 17:10	18°  Ω38'06			7344 Dec 18 04:55	0°  ☾	
evening set	7342 Jul 21 15:17	14°  Ω16'21		desc. node	7345 Jan 08 20:51	26°  ☾55'03	
desc. node	7342 Jul 25 02:24	12°  Ω15'54			7345 Jan 11 08:19	0°  ≈	
inferior conj	7342 Jul 27 23:21	10°  Ω29'30	-0°42'33	evening rise	7345 Jan 22 16:28	14°  ≈07'13	
minimum elong	7342 Jul 27 21:45	10°  Ω32'00	0°42'08		7345 Feb 04 10:08	0°  R	
min. Earth dist.	7342 Jul 27 11:53	10°  Ω47'20	0.28135 AU		7345 Feb 28 10:51	0°  Y	
morning rise	7342 Aug 03 04:44	6°  Ω47'04			7345 Mar 24 12:02	0°  R	
direct	7342 Aug 18 02:30	2°  Ω28'19			7345 Apr 17 16:39	0°  II	
greatest brilliancy	7342 Aug 27 23:00	4°  Ω13'29	-4.7m	asc. node	7345 May 01 20:26	17°  II23'32	
	7342 Oct 03 12:16	0°  ♍			7345 May 12 05:05	0°  ☾	
morning max el	7342 Oct 05 19:31	2°  ♍10'31	45°42'28		7345 Jun 06 07:52	0°  Ω	
	7342 Nov 01 20:15	0°  ♌			7345 Jul 02 13:40	0°  ♍	
asc. node	7342 Nov 15 02:11	14°  ♌41'44		evening max el	7345 Jul 27 10:30	26°  ♍04'23	45°52'29
	7342 Nov 28 11:17	0°  ♍			7345 Jul 31 12:38	0°  ♌	
	7342 Dec 23 21:06	0°  R		desc. node	7345 Aug 21 14:09	17°  ♌26'38	
	7343 Jan 17 14:44	0°  ☾		greatest brilliancy	7345 Sep 03 20:54	24°  ♌34'14	-4.7m
	7343 Feb 10 22:54	0°  ≈		retrograde	7345 Sep 14 13:36	26°  ♌37'47	
desc. node	7343 Mar 06 18:48	29°  ≈39'46		evening set	7345 Oct 02 02:57	20°  ♌47'33	
	7343 Mar 07 01:17	0°  R		inferior conj	7345 Oct 06 02:15	18°  ♌19'56	-8°12'16
	7343 Mar 31 00:03	0°  Y		minimum elong	7345 Oct 05 20:25	18°  ♌29'06	8°11'44
morning set	7343 Apr 05 23:07	7°  Y29'04		min. Earth dist.	7345 Oct 05 21:09	18°  ♌27'58	0.29166 AU
	7343 Apr 23 21:05	0°  R		morning rise	7345 Oct 09 13:58	16°  ♌10'02	
				direct	7345 Oct 27 16:37	10°  ♌02'35	
superior conj	7343 May 16 13:16	28°  R28'33	-1°20'42	greatest brilliancy	7345 Nov 06 22:57	11°  ♌57'37	-4.7m

	7345 Dec 04 09:23	0°♌			7348 May 01 16:19	0°♐	
asc. node	7345 Dec 12 14:07	7°♌29'45			7348 May 25 18:01	0°♐	
morning max el	7345 Dec 15 22:03	10°♌42'33	45°57'58	asc. node	7348 May 29 08:18	4°♐27'23	
	7346 Jan 03 13:12	0°♌			7348 Jun 19 01:49	0°♐	
	7346 Jan 30 02:29	0°♌			7348 Jul 13 18:33	0°♐	
	7346 Feb 24 08:07	0°♌			7348 Aug 08 00:58	0°♐	
	7346 Mar 20 22:27	0°♌			7348 Sep 03 07:19	0°♌	
desc. node	7346 Apr 03 06:49	16°♌28'07		desc. node	7348 Sep 18 01:35	16°♌01'25	
	7346 Apr 14 04:39	0°♌			7348 Oct 01 17:02	0°♌	
	7346 May 08 06:45	0°♌		evening max el	7348 Oct 06 08:58	4°♌31'48	45°40'55
	7346 Jun 01 07:41	0°♌			7348 Nov 08 07:03	0°♌	
morning set	7346 Jun 19 22:57	23°♌13'44		greatest brilliancy	7348 Nov 14 17:54	2°♌42'07	-4.8m
	7346 Jun 25 09:34	0°♌		retrograde	7348 Nov 24 02:15	4°♌17'49	
	7346 Jul 19 13:31	0°♌			7348 Dec 09 00:58	30°♌	
asc. node	7346 Jul 25 06:04	7°♌02'47		evening set	7348 Dec 10 09:40	29°♌14'39	
				inferior conj	7348 Dec 15 06:21	26°♌18'48	-5°40'02
superior conj	7346 Jul 28 09:44	10°♌56'51	0°07'39	minimum elong	7348 Dec 15 16:22	26°♌03'13	5°37'37
minimum elong	7346 Jul 28 08:01	10°♌51'33	0°07'29	min. Earth dist.	7348 Dec 16 04:31	25°♌44'21	0.28164 AU
behind sun begin	7346 Jul 27 10:52	9°♌46'08		morning rise	7348 Dec 20 22:22	22°♌53'46	
behind sun end	7346 Jul 29 05:09	11°♌56'58		direct	7349 Jan 05 11:19	18°♌09'23	
max. Earth dist.	7346 Jul 30 22:43	14°♌05'29	1.72824 AU	asc. node	7349 Jan 09 01:48	18°♌24'37	
	7346 Aug 12 19:37	0°♌		greatest brilliancy	7349 Jan 16 17:14	20°♌29'16	-4.8m
evening rise	7346 Sep 03 13:14	26°♌47'43			7349 Feb 01 17:49	0°♌	
	7346 Sep 06 03:43	0°♌		morning max el	7349 Feb 24 19:09	20°♌42'58	46°43'12
	7346 Sep 30 14:10	0°♌			7349 Mar 05 18:19	0°♌	
	7346 Oct 25 03:57	0°♌			7349 Apr 01 16:08	0°♌	
desc. node	7346 Nov 13 23:03	24°♌00'22			7349 Apr 27 02:13	0°♌	
	7346 Nov 18 22:13	0°♌		desc. node	7349 Apr 30 18:56	4°♌26'29	
	7346 Dec 13 22:00	0°♌			7349 May 21 20:54	0°♌	
	7347 Jan 08 05:37	0°♌			7349 Jun 15 08:51	0°♌	
	7347 Feb 03 04:50	0°♌			7349 Jul 09 18:37	0°♌	
	7347 Mar 02 21:52	0°♌			7349 Aug 03 04:15	0°♌	
evening max el	7347 Mar 03 22:38	1°♌02'44	47°01'28	asc. node	7349 Aug 21 17:59	22°♌49'48	
asc. node	7347 Mar 06 23:10	4°♌04'06			7349 Aug 27 13:55	0°♌	
	7347 Apr 08 10:49	0°♌		morning set	7349 Aug 29 06:30	2°♌04'49	
greatest brilliancy	7347 Apr 13 14:49	2°♌15'28	-4.9m		7349 Sep 20 23:00	0°♌	
retrograde	7347 Apr 23 12:39	4°♌06'52		max. Earth dist.	7349 Oct 04 13:18	16°♌45'01	1.73355 AU
	7347 May 07 21:45	30°♌					
evening set	7347 May 11 07:08	28°♌03'20		superior conj	7349 Oct 05 02:36	17°♌26'01	1°21'20
inferior conj	7347 May 14 06:44	26°♌13'25	8°34'03	minimum elong	7349 Oct 04 20:57	17°♌08'36	1°21'18
minimum elong	7347 May 14 14:08	26°♌01'58	8°33'09		7349 Oct 15 07:18	0°♌	
min. Earth dist.	7347 May 14 05:09	26°♌15'54	0.27269 AU		7349 Nov 08 15:20	0°♌	
morning rise	7347 May 17 21:16	24°♌01'36		evening rise	7349 Nov 10 13:29	2°♌22'11	
direct	7347 Jun 03 23:38	18°♌25'03			7349 Dec 02 23:47	0°♌	
greatest brilliancy	7347 Jun 13 13:24	20°♌07'48	-4.8m	desc. node	7349 Dec 11 10:56	10°♌25'12	
desc. node	7347 Jun 26 16:39	26°♌57'38			7349 Dec 27 08:52	0°♌	
	7347 Jul 01 00:00	0°♌			7350 Jan 20 18:31	0°♌	
morning max el	7347 Jul 23 16:17	19°♌53'04	46°16'21		7350 Feb 14 05:44	0°♌	
	7347 Aug 02 17:12	0°♌			7350 Mar 10 22:11	0°♌	
	7347 Aug 30 10:00	0°♌		asc. node	7350 Apr 03 10:41	27°♌58'52	
	7347 Sep 25 15:34	0°♌			7350 Apr 05 04:09	0°♌	
asc. node	7347 Oct 17 16:09	25°♌54'23			7350 May 01 18:10	0°♌	
	7347 Oct 21 02:41	0°♌		evening max el	7350 May 15 03:26	13°♌58'44	46°42'06
	7347 Nov 15 01:08	0°♌			7350 Jun 01 09:35	0°♌	
	7347 Dec 09 14:23	0°♌		greatest brilliancy	7350 Jun 23 10:59	14°♌10'00	-4.8m
	7348 Jan 02 21:19	0°♌		retrograde	7350 Jul 04 09:12	16°♌23'17	
morning set	7348 Jan 18 01:25	18°♌51'10		evening set	7350 Jul 19 06:55	12°♌00'50	
	7348 Jan 27 00:03	0°♌		desc. node	7350 Jul 24 04:23	9°♌07'46	
desc. node	7348 Feb 06 08:42	12°♌56'14		min. Earth dist.	7350 Jul 25 03:15	8°♌32'20	0.28091 AU
	7348 Feb 19 23:49	0°♌		inferior conj	7350 Jul 25 14:23	8°♌15'03	-0°21'03
max. Earth dist.	7348 Feb 24 10:41	5°♌34'56	1.71439 AU	minimum elong	7350 Jul 25 13:35	8°♌16'18	0°20'52
				morning rise	7350 Jul 31 20:49	4°♌31'41	
superior conj	7348 Feb 27 00:31	8°♌48'52	-0°47'32	direct	7350 Aug 15 17:08	0°♌14'23	
minimum elong	7348 Feb 26 13:58	8°♌15'46	0°47'04	greatest brilliancy	7350 Aug 25 13:26	1°♌59'51	-4.7m
	7348 Mar 14 21:28	0°♌			7350 Oct 03 11:07	0°♌	
evening rise	7348 Apr 07 12:09	29°♌40'42		morning max el	7350 Oct 03 11:36	0°♌01'09	45°42'54
	7348 Apr 07 18:17	0°♌			7350 Nov 01 11:47	0°♌	

asc. node	7350 Nov 14 04:20	14°♊07'57	evening max el	7353 Jul 25 02:04	23°♎52'20	45°53'44
	7350 Nov 28 00:21	0°♍		7353 Jul 31 12:34	0°♊	
	7350 Dec 23 09:05	0°♈	desc. node	7353 Aug 20 16:05	16°♊13'30	
	7351 Jan 17 02:11	0°♎	greatest brilliancy	7353 Sep 01 12:53	22°♊25'26	-4.7m
	7351 Feb 10 10:03	0°♏	retrograde	7353 Sep 12 05:26	24°♊29'05	
desc. node	7351 Mar 05 20:43	29°♏11'29	evening set	7353 Sep 29 16:27	18°♊43'23	
	7351 Mar 06 12:14	0°♏	inferior conj	7353 Oct 03 18:37	16°♊11'21	-8°05'59
	7351 Mar 30 10:52	0°♎	minimum elong	7353 Oct 03 12:10	16°♊21'31	8°05'20
morning set	7351 Apr 03 09:17	4°♎56'21	min. Earth dist.	7353 Oct 03 12:41	16°♊20'42	0.29154 AU
	7351 Apr 23 07:50	0°♏	morning rise	7353 Oct 07 07:58	13°♊58'47	
			direct	7353 Oct 25 08:43	7°♊54'28	
superior conj	7351 May 14 00:47	26°♏00'31 -1°22'08	greatest brilliancy	7353 Nov 04 14:08	9°♊48'08	-4.7m
minimum elong	7351 May 14 08:29	26°♏24'42 1°22'06		7353 Dec 04 12:09	0°♍	
max. Earth dist.	7351 May 16 18:30	29°♏26'38 1.71474 AU	asc. node	7353 Dec 11 16:02	6°♍40'15	
	7351 May 17 05:08	0°♏	morning max el	7353 Dec 13 12:20	8°♍27'36	45°56'41
	7351 Jun 10 04:41	0°♏		7354 Jan 03 05:43	0°♈	
evening rise	7351 Jun 23 01:20	16°♏01'04		7354 Jan 29 16:07	0°♎	
asc. node	7351 Jun 26 20:09	20°♏43'06		7354 Feb 23 20:30	0°♏	
	7351 Jul 04 07:46	0°♏		7354 Mar 20 10:12	0°♏	
	7351 Jul 28 15:11	0°♎	desc. node	7354 Apr 02 08:50	15°♏58'42	
	7351 Aug 22 04:00	0°♊		7354 Apr 13 16:02	0°♎	
	7351 Sep 16 00:24	0°♍		7354 May 07 17:52	0°♏	
	7351 Oct 11 08:05	0°♈		7354 May 31 18:34	0°♏	
desc. node	7351 Oct 16 13:19	6°♈05'34	morning set	7354 Jun 17 12:51	20°♏54'08	
	7351 Nov 06 09:17	0°♎		7354 Jun 24 20:16	0°♏	
	7351 Dec 03 18:29	0°♏		7354 Jul 19 00:05	0°♏	
evening max el	7351 Dec 18 15:21	15°♏07'59 46°20'08	asc. node	7354 Jul 24 07:56	6°♏35'51	
	7352 Jan 03 23:42	0°♏				
greatest brilliancy	7352 Jan 27 10:50	14°♏43'17 -4.9m	superior conj	7354 Jul 26 01:14	8°♏43'42	0°04'12
retrograde	7352 Feb 06 08:50	16°♏33'02	minimum elong	7354 Jul 26 00:18	8°♏40'48	0°04'04
asc. node	7352 Feb 06 13:33	16°♏32'59	behind sun begin	7354 Jul 25 01:12	7°♏29'19	
evening set	7352 Feb 21 03:00	12°♏14'43	behind sun end	7354 Jul 26 23:24	9°♏52'16	
inferior conj	7352 Feb 26 23:17	8°♏47'53 5°00'20	max. Earth dist.	7354 Jul 28 16:30	11°♏59'27	1.72781 AU
minimum elong	7352 Feb 26 13:19	9°♏03'10 4°57'39		7354 Aug 12 06:09	0°♎	
min. Earth dist.	7352 Feb 26 19:39	8°♏53'27 0.26921 AU	evening rise	7354 Sep 01 06:42	24°♎41'12	
morning rise	7352 Mar 02 23:36	5°♏48'50		7354 Sep 05 14:18	0°♊	
direct	7352 Mar 18 15:26	1°♏00'51		7354 Sep 30 00:54	0°♍	
greatest brilliancy	7352 Mar 28 12:28	2°♏52'16 -4.9m		7354 Oct 24 14:59	0°♈	
	7352 May 04 04:38	0°♎	desc. node	7354 Nov 13 01:07	23°♈32'08	
morning max el	7352 May 08 03:59	3°♎56'27 46°57'08		7354 Nov 18 09:45	0°♎	
desc. node	7352 May 28 07:00	25°♎16'08		7354 Dec 13 10:20	0°♏	
	7352 Jun 01 13:16	0°♏		7355 Jan 07 19:15	0°♏	
	7352 Jun 27 17:27	0°♏		7355 Feb 02 20:56	0°♎	
	7352 Jul 23 02:48	0°♏	evening max el	7355 Mar 01 11:03	28°♎36'04	47°00'46
	7352 Aug 17 03:50	0°♏		7355 Mar 02 20:26	0°♏	
	7352 Sep 10 23:51	0°♎	asc. node	7355 Mar 06 01:07	3°♏09'37	
asc. node	7352 Sep 18 06:04	8°♎48'36	greatest brilliancy	7355 Apr 11 05:16	29°♏51'57	-4.9m
	7352 Oct 05 15:22	0°♊		7355 Apr 11 14:23	0°♏	
	7352 Oct 30 02:33	0°♍	retrograde	7355 Apr 21 01:29	1°♏42'21	
morning set	7352 Nov 05 17:17	8°♍08'37		7355 Apr 30 04:45	30°♎♏	
	7352 Nov 23 10:12	0°♈	evening set	7355 May 08 23:01	25°♏35'06	
max. Earth dist.	7352 Dec 10 07:08	20°♈53'24 1.72677 AU	inferior conj	7355 May 11 19:55	23°♏49'25	8°42'06
			minimum elong	7355 May 12 02:32	23°♏39'09	8°41'22
superior conj	7352 Dec 12 14:44	23°♈45'44 0°58'01	min. Earth dist.	7355 May 11 18:28	23°♏51'39	0.27253 AU
minimum elong	7352 Dec 13 00:34	24°♈16'12 0°57'45	morning rise	7355 May 15 06:08	21°♏43'54	
	7352 Dec 17 15:27	0°♎	direct	7355 Jun 01 11:52	16°♏01'00	
desc. node	7353 Jan 07 22:46	26°♎28'01	greatest brilliancy	7355 Jun 11 02:40	17°♏44'22	-4.8m
	7353 Jan 10 18:57	0°♏	desc. node	7355 Jun 25 18:35	25°♏37'09	
evening rise	7353 Jan 20 06:10	11°♏47'00		7355 Jul 01 15:46	0°♏	
	7353 Feb 03 20:58	0°♏	morning max el	7355 Jul 21 05:27	17°♏31'28	46°18'09
	7353 Feb 27 21:54	0°♎		7355 Aug 02 12:31	0°♏	
	7353 Mar 23 23:21	0°♏		7355 Aug 30 00:46	0°♏	
	7353 Apr 17 04:19	0°♏		7355 Sep 25 04:22	0°♎	
asc. node	7353 Apr 30 22:31	16°♏53'18	asc. node	7355 Oct 16 18:14	25°♎25'13	
	7353 May 11 17:21	0°♏		7355 Oct 20 14:28	0°♊	
	7353 Jun 05 21:17	0°♏		7355 Nov 14 12:21	0°♍	
	7353 Jul 02 05:36	0°♎		7355 Dec 09 01:17	0°♈	

	7356 Jan 02 08:04	0°♁		retrograde	7358 Jul 02 01:15	14°♂07'53	
morning set	7356 Jan 15 15:35	16°♁32'26		evening set	7358 Jul 16 22:49	9°♂44'46	
	7356 Jan 26 10:46	0°♁		inferior conj	7358 Jul 23 05:25	6°♂00'03	0°00'34
desc. node	7356 Feb 05 10:39	12°♁28'51		minimum elong	7358 Jul 23 05:26	6°♂00'01	0°00'29
	7356 Feb 19 10:33	0°♁		transit middle	7358 Jul 23 05:26	6°♂00'01	0°00'29
max. Earth dist.	7356 Feb 21 22:05	3°♁06'32	1.71473 AU	transit begin	7358 Jul 23 01:23	6°♂06'19	
				transit end	7358 Jul 23 09:30	5°♂53'43	
superior conj	7356 Feb 24 12:17	6°♁21'34	-0°44'14	min. Earth dist.	7358 Jul 22 18:32	6°♂16'57	0.28050 AU
minimum elong	7356 Feb 24 02:15	5°♁50'05	0°43'46	desc. node	7358 Jul 23 06:19	5°♂58'38	
	7356 Mar 14 08:15	0°♁		morning rise	7358 Jul 29 12:45	2°♂15'53	
evening rise	7356 Apr 04 23:10	27°♁10'29			7358 Aug 03 08:05	30°♁	
	7356 Apr 07 05:08	0°♁		direct	7358 Aug 13 08:19	28°♁00'00	
	7356 May 01 03:17	0°♂		greatest brilliancy	7358 Aug 23 03:37	29°♁45'09	-4.7m
	7356 May 25 05:10	0°♁			7358 Aug 23 20:29	0°♂	
asc. node	7356 May 28 10:15	3°♁58'52		morning max el	7358 Oct 01 03:39	27°♂50'58	45°43'16
	7356 Jun 18 13:17	0°♂			7358 Oct 03 09:19	0°♁	
	7356 Jul 13 06:32	0°♁			7358 Nov 01 03:19	0°♂	
	7356 Aug 07 13:56	0°♂		asc. node	7358 Nov 13 06:15	13°♂33'04	
	7356 Sep 02 22:26	0°♂			7358 Nov 27 13:33	0°♂	
desc. node	7356 Sep 17 03:41	15°♂21'04			7358 Dec 22 21:12	0°♁	
	7356 Oct 01 14:08	0°♁			7359 Jan 16 13:46	0°♁	
evening max el	7356 Oct 03 23:34	2°♁18'22	45°40'31		7359 Feb 09 21:22	0°♁	
	7356 Nov 11 00:09	0°♁		desc. node	7359 Mar 04 22:43	28°♁42'56	
greatest brilliancy	7356 Nov 12 07:28	0°♁27'17	-4.7m		7359 Mar 05 23:23	0°♁	
retrograde	7356 Nov 21 17:09	2°♁04'04			7359 Mar 29 21:55	0°♁	
	7356 Dec 01 22:15	30°♁		morning set	7359 Mar 31 19:38	2°♁23'28	
evening set	7356 Dec 08 03:23	26°♁55'50			7359 Apr 22 18:49	0°♁	
inferior conj	7356 Dec 12 21:20	24°♁03'51	-5°55'41				
minimum elong	7356 Dec 13 07:28	23°♁48'07	5°53'20	superior conj	7359 May 11 12:28	23°♁32'15	-1°23'25
min. Earth dist.	7356 Dec 13 19:21	23°♁29'40	0.28228 AU	minimum elong	7359 May 11 19:23	23°♁53'57	1°23'23
morning rise	7356 Dec 18 10:55	20°♁42'27		max. Earth dist.	7359 May 14 06:03	26°♁58'01	1.71437 AU
direct	7357 Jan 03 03:08	15°♁53'28			7359 May 16 16:04	0°♂	
asc. node	7357 Jan 08 03:45	16°♁22'59			7359 Jun 09 15:35	0°♁	
greatest brilliancy	7357 Jan 14 09:03	18°♁13'52	-4.8m	evening rise	7359 Jun 20 14:52	13°♁40'02	
	7357 Feb 02 07:26	0°♁		asc. node	7359 Jun 25 22:02	20°♁15'09	
morning max el	7357 Feb 22 11:14	18°♁27'34	46°41'56		7359 Jul 03 18:41	0°♂	
	7357 Mar 05 13:16	0°♁			7359 Jul 28 02:13	0°♁	
	7357 Apr 01 07:00	0°♁			7359 Aug 21 15:22	0°♂	
	7357 Apr 26 15:22	0°♁			7359 Sep 15 12:19	0°♂	
desc. node	7357 Apr 29 21:01	3°♁53'38			7359 Oct 10 20:58	0°♁	
	7357 May 21 09:06	0°♁		desc. node	7359 Oct 15 15:20	5°♁33'08	
	7357 Jun 14 20:28	0°♂			7359 Nov 06 00:03	0°♁	
	7357 Jul 09 05:52	0°♁			7359 Dec 03 13:29	0°♁	
	7357 Aug 02 15:14	0°♂		evening max el	7359 Dec 16 05:47	12°♁49'10	46°18'16
asc. node	7357 Aug 20 20:00	22°♂22'50			7360 Jan 04 11:43	0°♁	
morning set	7357 Aug 26 23:17	29°♂55'43		greatest brilliancy	7360 Jan 25 00:10	12°♁18'41	-4.8m
	7357 Aug 27 00:41	0°♁		retrograde	7360 Feb 03 21:14	14°♁07'15	
	7357 Sep 20 09:38	0°♂		asc. node	7360 Feb 05 15:33	14°♁03'31	
				evening set	7360 Feb 18 13:39	9°♁52'27	
superior conj	7357 Oct 02 20:18	15°♂19'57	1°20'15	inferior conj	7360 Feb 24 12:09	6°♁22'22	4°39'46
minimum elong	7357 Oct 02 14:07	15°♂00'53	1°20'10	minimum elong	7360 Feb 24 02:39	6°♁36'58	4°37'08
max. Earth dist.	7357 Oct 02 11:05	14°♂51'33	1.73357 AU	min. Earth dist.	7360 Feb 24 09:31	6°♁26'25	0.26930 AU
	7357 Oct 14 17:55	0°♂		morning rise	7360 Feb 29 15:33	3°♁18'36	
evening rise	7357 Nov 08 06:25	0°♁13'27			7360 Mar 07 20:49	30°♁	
	7357 Nov 08 02:03	0°♁		direct	7360 Mar 16 04:37	28°♁35'06	
	7357 Dec 02 10:43	0°♁			7360 Mar 24 18:49	0°♁	
desc. node	7357 Dec 10 12:49	9°♁57'07		greatest brilliancy	7360 Mar 26 02:52	0°♁27'15	-4.9m
	7357 Dec 26 20:07	0°♁			7360 May 04 04:47	0°♁	
	7358 Jan 20 06:11	0°♁		morning max el	7360 May 05 16:41	1°♁29'52	46°57'41
	7358 Feb 13 17:58	0°♁		desc. node	7360 May 27 08:50	24°♁32'45	
	7358 Mar 10 11:17	0°♁			7360 Jun 01 06:04	0°♁	
asc. node	7358 Apr 02 12:47	27°♁22'35			7360 Jun 27 07:34	0°♂	
	7358 Apr 04 18:51	0°♂			7360 Jul 22 15:30	0°♁	
	7358 May 01 12:34	0°♁			7360 Aug 16 15:42	0°♂	
evening max el	7358 May 12 19:13	11°♁43'05	46°43'42		7360 Sep 10 11:12	0°♁	
	7358 Jun 01 19:35	0°♂		asc. node	7360 Sep 17 08:07	8°♁20'41	
greatest brilliancy	7358 Jun 21 02:34	11°♂54'31	-4.8m		7360 Oct 05 02:24	0°♂	

	7360 Oct 29 13:26	0°♌		evening set	7363 May 06 14:38	23°♏06'04	
morning set	7360 Nov 03 10:36	6°♌00'42		inferior conj	7363 May 09 09:04	21°♏24'21	8°49'12
	7360 Nov 22 21:03	0°♌		minimum elong	7363 May 09 14:54	21°♏15'20	8°48'37
max. Earth dist.	7360 Dec 07 21:40	18°♌36'08	1.72716 AU	min. Earth dist.	7363 May 09 07:27	21°♏26'51	0.27239 AU
				morning rise	7363 May 12 15:13	19°♏25'03	
superior conj	7360 Dec 10 06:44	21°♌32'57	1°00'29	direct	7363 May 30 00:21	13°♏35'49	
minimum elong	7360 Dec 10 16:35	22°♌03'26	1°00'14	greatest brilliancy	7363 Jun 08 15:40	15°♏19'48	-4.9m
	7360 Dec 17 02:19	0°♏		desc. node	7363 Jun 24 20:37	24°♏18'32	
desc. node	7361 Jan 07 00:43	26°♏00'00			7363 Jul 02 03:57	0°♐	
	7361 Jan 10 05:56	0°♐		morning max el	7363 Jul 18 19:33	15°♐11'10	46°19'52
evening rise	7361 Jan 17 19:58	9°♐26'12			7363 Aug 02 07:39	0°♑	
	7361 Feb 03 08:06	0°♑			7363 Aug 29 15:41	0°♒	
	7361 Feb 27 09:16	0°♑			7363 Sep 24 17:23	0°♑	
	7361 Mar 23 11:00	0°♒		asc. node	7363 Oct 15 20:10	24°♑54'55	
	7361 Apr 16 16:23	0°♐			7363 Oct 20 02:28	0°♑	
asc. node	7361 Apr 30 00:25	16°♐21'19			7363 Nov 13 23:46	0°♌	
	7361 May 11 06:04	0°♑			7363 Dec 08 12:25	0°♌	
	7361 Jun 05 11:11	0°♒			7364 Jan 01 19:05	0°♏	
	7361 Jul 01 22:12	0°♑		morning set	7364 Jan 13 05:52	14°♏13'17	
evening max el	7361 Jul 22 16:51	21°♑37'19	45°55'06		7364 Jan 25 21:47	0°♐	
	7361 Jul 31 14:09	0°♑		desc. node	7364 Feb 04 12:44	12°♐01'00	
desc. node	7361 Aug 19 18:08	14°♑57'36			7364 Feb 18 21:36	0°♑	
greatest brilliancy	7361 Aug 30 04:48	20°♑15'42	-4.7m	max. Earth dist.	7364 Feb 19 09:52	0°♑38'27	1.71509 AU
retrograde	7361 Sep 09 21:18	22°♑19'53					
evening set	7361 Sep 27 05:56	16°♑38'34		superior conj	7364 Feb 21 23:50	3°♑52'36	-0°40'50
inferior conj	7361 Oct 01 11:06	14°♑02'11	-7°59'04	minimum elong	7364 Feb 21 14:23	3°♑22'59	0°40'21
minimum elong	7361 Oct 01 04:04	14°♑13'15	7°58'16		7364 Mar 13 19:20	0°♑	
min. Earth dist.	7361 Oct 01 04:31	14°♑12'33	0.29143 AU	evening rise	7364 Apr 02 09:53	24°♑38'28	
morning rise	7361 Oct 05 02:16	11°♑46'45			7364 Apr 06 16:16	0°♒	
direct	7361 Oct 23 00:31	5°♑45'31			7364 Apr 30 14:30	0°♐	
greatest brilliancy	7361 Nov 02 06:05	7°♑38'43	-4.7m		7364 May 24 16:34	0°♑	
	7361 Dec 04 13:53	0°♌		asc. node	7364 May 27 12:10	3°♑29'24	
asc. node	7361 Dec 10 17:59	5°♌50'35			7364 Jun 18 01:00	0°♒	
morning max el	7361 Dec 11 02:44	6°♌11'54	45°55'25		7364 Jul 12 18:48	0°♑	
	7362 Jan 02 22:21	0°♌			7364 Aug 07 03:16	0°♑	
	7362 Jan 29 06:02	0°♏			7364 Sep 02 14:04	0°♌	
	7362 Feb 23 09:12	0°♐		desc. node	7364 Sep 16 05:43	14°♌39'21	
	7362 Mar 19 22:16	0°♑		evening max el	7364 Oct 01 14:58	0°♌06'20	45°40'12
desc. node	7362 Apr 01 10:54	15°♑28'26			7364 Oct 01 12:20	0°♌	
	7362 Apr 13 03:42	0°♑		greatest brilliancy	7364 Nov 09 20:47	28°♌12'04	-4.7m
	7362 May 07 05:17	0°♒		retrograde	7364 Nov 19 08:16	29°♌49'59	
	7362 May 31 05:47	0°♐		evening set	7364 Dec 05 21:12	24°♌37'00	
morning set	7362 Jun 15 02:30	18°♐32'31		inferior conj	7364 Dec 10 12:22	21°♌48'43	-6°10'43
	7362 Jun 24 07:20	0°♑		minimum elong	7364 Dec 10 22:32	21°♌32'55	6°08'26
	7362 Jul 18 11:02	0°♒		min. Earth dist.	7364 Dec 11 09:50	21°♌15'23	0.28290 AU
asc. node	7362 Jul 23 09:59	6°♒08'23		morning rise	7364 Dec 15 23:21	18°♌31'08	
				direct	7364 Dec 31 19:17	13°♌37'43	
superior conj	7362 Jul 23 16:40	6°♒29'07	0°00'41	asc. node	7365 Jan 07 05:47	14°♌25'46	
minimum elong	7362 Jul 23 16:31	6°♒28'37	0°00'36	greatest brilliancy	7365 Jan 12 00:10	15°♌57'33	-4.8m
behind sun begin	7362 Jul 22 16:49	5°♒15'15			7365 Feb 02 17:41	0°♏	
behind sun end	7362 Jul 24 16:12	7°♒41'58		morning max el	7365 Feb 20 03:17	16°♏11'46	46°40'23
max. Earth dist.	7362 Jul 26 08:12	9°♒45'42	1.72736 AU		7365 Mar 05 07:54	0°♐	
	7362 Aug 11 17:02	0°♑			7365 Mar 31 21:55	0°♑	
evening rise	7362 Aug 30 00:12	22°♑33'47			7365 Apr 26 04:38	0°♑	
	7362 Sep 05 01:13	0°♑		desc. node	7365 Apr 28 22:54	3°♑19'40	
	7362 Sep 29 11:58	0°♌			7365 May 20 21:28	0°♒	
	7362 Oct 24 02:22	0°♌			7365 Jun 14 08:14	0°♐	
desc. node	7362 Nov 12 03:02	23°♌02'17			7365 Jul 08 17:13	0°♑	
	7362 Nov 17 21:41	0°♏			7365 Aug 02 02:17	0°♒	
	7362 Dec 12 23:07	0°♐		asc. node	7365 Aug 19 22:00	21°♒55'29	
	7363 Jan 07 09:27	0°♑		morning set	7365 Aug 24 15:56	27°♒45'53	
	7363 Feb 02 13:47	0°♑			7365 Aug 26 11:32	0°♑	
evening max el	7363 Feb 26 23:38	26°♑08'49	47°00'13		7365 Sep 19 20:23	0°♑	
	7363 Mar 02 20:28	0°♒					
asc. node	7363 Mar 05 03:13	2°♒13'17		superior conj	7365 Sep 30 14:00	13°♒13'28	1°19'04
greatest brilliancy	7363 Apr 08 19:02	27°♒26'39	-4.9m	minimum elong	7365 Sep 30 07:18	12°♒52'48	1°18'57
retrograde	7363 Apr 18 14:40	29°♒17'03		max. Earth dist.	7365 Sep 30 08:39	12°♒57'00	1.73357 AU

	7365 Oct 14 04:39	0°♌	greatest brilliancy	7368 Mar 23 17:50	28°≈04'18	-4.9m
evening rise	7365 Nov 05 23:28	28°♌04'48		7368 Mar 28 05:29	0°♐	
	7365 Nov 07 12:52	0°♐	morning max el	7368 May 03 04:48	29°♐02'48	46°58'07
	7365 Dec 01 21:44	0°♑		7368 May 04 03:27	0°♑	
desc. node	7365 Dec 09 14:50	9°♑29'15	desc. node	7368 May 26 10:55	23°♑51'29	
	7365 Dec 26 07:25	0°≈		7368 May 31 22:15	0°♒	
	7366 Jan 19 17:53	0°♐		7368 Jun 26 21:17	0°♒	
	7366 Feb 13 06:16	0°♑		7368 Jul 22 03:56	0°♑	
	7366 Mar 10 00:33	0°♒		7368 Aug 16 03:20	0°♑	
asc. node	7366 Apr 01 14:39	26°♒44'56		7368 Sep 09 22:18	0°♑	
	7366 Apr 04 09:51	0°♒	asc. node	7368 Sep 16 10:02	7°♑53'04	
	7366 May 01 07:39	0°♑		7368 Oct 04 13:11	0°♑	
evening max el	7366 May 10 11:11	9°♑27'16 46°45'12		7368 Oct 29 00:03	0°♌	
	7366 Jun 02 09:24	0°♑	morning set	7368 Nov 01 03:41	3°♌52'50	
greatest brilliancy	7366 Jun 18 18:31	9°♑38'44 -4.8m		7368 Nov 22 07:37	0°♐	
retrograde	7366 Jun 29 16:53	11°♑51'22	max. Earth dist.	7368 Dec 05 13:43	16°♐24'23 1.72756 AU	
evening set	7366 Jul 14 14:45	7°♑27'41				
inferior conj	7366 Jul 20 20:17	3°♑44'09 0°22'25	superior conj	7368 Dec 07 22:42	19°♐20'54 1°02'53	
minimum elong	7366 Jul 20 21:08	3°♑42'50 0°22'04	minimum elong	7368 Dec 08 08:30	19°♐51'14 1°02'38	
min. Earth dist.	7366 Jul 20 09:44	4°♑00'32 0.28007 AU		7368 Dec 16 12:56	0°♑	
desc. node	7366 Jul 22 08:24	2°♑48'15	desc. node	7369 Jan 06 02:49	25°♑33'13	
morning rise	7366 Jul 27 04:15	29°♑59'15		7369 Jan 09 16:39	0°≈	
	7366 Jul 27 03:42	30°♑	evening rise	7369 Jan 15 09:54	7°≈06'42	
direct	7366 Aug 10 23:22	25°♑44'59		7369 Feb 02 18:59	0°♐	
greatest brilliancy	7366 Aug 20 17:29	27°♑29'25 -4.8m		7369 Feb 26 20:20	0°♑	
	7366 Aug 26 15:28	0°♑		7369 Mar 22 22:18	0°♒	
morning max el	7366 Sep 28 18:45	25°♑38'18 45°43'39		7369 Apr 16 04:03	0°♒	
	7366 Oct 03 06:43	0°♑	asc. node	7369 Apr 29 02:24	15°♒50'45	
	7366 Oct 31 18:37	0°♑		7369 May 10 18:24	0°♑	
asc. node	7366 Nov 12 08:09	12°♑58'22		7369 Jun 05 00:50	0°♑	
	7366 Nov 27 02:37	0°♌		7369 Jul 01 14:46	0°♑	
	7366 Dec 22 09:14	0°♐	evening max el	7369 Jul 20 07:21	19°♑22'23 45°56'26	
	7367 Jan 16 01:15	0°♑		7369 Jul 31 16:52	0°♑	
	7367 Feb 09 08:33	0°≈	desc. node	7369 Aug 18 20:10	13°♑39'58	
desc. node	7367 Mar 04 00:44	28°≈14'51	greatest brilliancy	7369 Aug 27 20:13	18°♑05'50 -4.7m	
	7367 Mar 05 10:24	0°♐	retrograde	7369 Sep 07 13:21	20°♑11'18	
morning set	7367 Mar 29 06:05	29°♐51'21	evening set	7369 Sep 24 19:10	14°♑34'14	
	7367 Mar 29 08:50	0°♑	inferior conj	7369 Sep 29 03:27	11°♑53'30 -7°51'16	
	7367 Apr 22 05:42	0°♒	minimum elong	7369 Sep 28 19:55	12°♑05'23 7°50'21	
			min. Earth dist.	7369 Sep 28 20:10	12°♑04'58 0.29131 AU	
superior conj	7367 May 08 23:58	21°♒03'35 -1°24'32	morning rise	7369 Oct 02 20:42	9°♑35'03	
minimum elong	7367 May 09 05:59	21°♒22'29 1°24'32	direct	7369 Oct 20 16:11	3°♑36'59	
max. Earth dist.	7367 May 11 16:02	24°♒24'41 1.71405 AU	greatest brilliancy	7369 Oct 30 22:12	5°♑30'19 -4.7m	
	7367 May 16 02:56	0°♒		7369 Dec 04 13:56	0°♌	
	7367 Jun 09 02:25	0°♑	morning max el	7369 Dec 08 17:33	3°♌58'16 45°54'14	
evening rise	7367 Jun 18 03:48	11°♑17'11	asc. node	7369 Dec 09 20:06	5°♌03'09	
asc. node	7367 Jun 25 00:05	19°♑47'49		7370 Jan 02 14:17	0°♐	
	7367 Jul 03 05:33	0°♑		7370 Jan 28 19:27	0°♑	
	7367 Jul 27 13:13	0°♑		7370 Feb 22 21:28	0°≈	
	7367 Aug 21 02:39	0°♑		7370 Mar 19 09:55	0°♐	
	7367 Sep 15 00:10	0°♌	desc. node	7370 Mar 31 12:45	14°♐58'49	
	7367 Oct 10 09:51	0°♐		7370 Apr 12 14:58	0°♑	
desc. node	7367 Oct 14 17:14	5°♐00'32		7370 May 06 16:15	0°♒	
	7367 Nov 05 14:52	0°♑		7370 May 30 16:31	0°♒	
	7367 Dec 03 08:50	0°≈	morning set	7370 Jun 12 16:24	16°♒13'02	
evening max el	7367 Dec 13 19:26	10°≈29'03 46°16'28		7370 Jun 23 17:55	0°♑	
	7368 Jan 05 03:21	0°♐		7370 Jul 17 21:32	0°♑	
greatest brilliancy	7368 Jan 22 14:00	9°♐55'41 -4.8m				
retrograde	7368 Feb 01 09:25	11°♐42'54	superior conj	7370 Jul 21 08:12	4°♑16'06 -0°02'50	
asc. node	7368 Feb 04 17:35	11°♐29'28	minimum elong	7370 Jul 21 08:52	4°♑18'10 0°02'52	
evening set	7368 Feb 16 00:39	7°♐31'03	behind sun begin	7370 Jul 20 09:18	3°♑05'11	
inferior conj	7368 Feb 22 01:10	3°♐58'22 4°18'42	behind sun end	7370 Jul 22 08:25	5°♑31'07	
minimum elong	7368 Feb 21 16:12	4°♐12'10 4°16'09	asc. node	7370 Jul 22 12:00	5°♑42'12	
min. Earth dist.	7368 Feb 21 23:48	4°♐00'29 0.26938 AU	max. Earth dist.	7370 Jul 23 23:52	7°♑33'14 1.72698 AU	
morning rise	7368 Feb 27 07:31	0°♐50'07		7370 Aug 11 03:31	0°♑	
	7368 Feb 28 20:37	30°♑	evening rise	7370 Aug 27 17:45	20°♑27'43	
direct	7368 Mar 13 17:27	26°≈10'43		7370 Sep 04 11:45	0°♑	

	7370 Sep 28 22:40	0°♍			7373 May 20 09:29	0°♄
	7370 Oct 23 13:24	0°♊			7373 Jun 13 19:42	0°♈
desc. node	7370 Nov 11 05:03	22°♊33'53			7373 Jul 08 04:18	0°♄
	7370 Nov 17 09:16	0°♄			7373 Aug 01 13:03	0°♈
	7370 Dec 12 11:36	0°♌		asc. node	7373 Aug 18 23:55	21°♈28'50
	7371 Jan 06 23:23	0°♋		morning set	7373 Aug 22 08:59	25°♈38'14
	7371 Feb 02 06:32	0°♑			7373 Aug 25 22:04	0°♑
evening max el	7371 Feb 24 13:07	23°♑45'03 46°59'39			7373 Sep 19 06:48	0°♌
	7371 Mar 02 21:11	0°♄				
asc. node	7371 Mar 04 05:09	1°♋16'27		superior conj	7373 Sep 28 08:03	11°♌09'05 1°17'45
greatest brilliancy	7371 Apr 06 08:17	25°♋02'01 -4.9m		minimum elong	7373 Sep 28 00:53	10°♌47'01 1°17'38
retrograde	7371 Apr 16 04:26	26°♋53'05		max. Earth dist.	7373 Sep 28 06:01	11°♌02'48 1.73355 AU
evening set	7371 May 04 05:57	20°♋38'47			7373 Oct 13 15:05	0°♍
inferior conj	7371 May 06 22:13	19°♋00'32 8°55'17		evening rise	7373 Nov 03 16:48	25°♍57'47
minimum elong	7371 May 07 03:14	18°♋52'48 8°54'51			7373 Nov 06 23:27	0°♊
min. Earth dist.	7371 May 06 20:05	19°♋03'50 0.27220 AU			7373 Dec 01 08:33	0°♄
morning rise	7371 May 10 00:35	17°♋07'12		desc. node	7373 Dec 08 16:54	9°♄02'06
direct	7371 May 27 13:25	11°♋12'08			7373 Dec 25 18:33	0°♌
greatest brilliancy	7371 Jun 06 04:04	12°♋56'09 -4.9m			7374 Jan 19 05:27	0°♋
desc. node	7371 Jun 23 22:39	23°♋04'00			7374 Feb 12 18:28	0°♑
	7371 Jul 02 12:14	0°♈			7374 Mar 09 13:45	0°♄
morning max el	7371 Jul 16 10:15	12°♈54'02 46°21'38		asc. node	7374 Mar 31 16:40	26°♄07'53
	7371 Aug 02 01:39	0°♄			7374 Apr 04 00:54	0°♈
	7371 Aug 29 05:52	0°♈			7374 May 01 03:08	0°♄
	7371 Sep 24 05:51	0°♑		evening max el	7374 May 08 02:24	7°♄09'45 46°46'34
asc. node	7371 Oct 14 22:05	24°♑25'53			7374 Jun 03 03:45	0°♈
	7371 Oct 19 14:01	0°♌		greatest brilliancy	7374 Jun 16 11:07	7°♈23'53 -4.8m
	7371 Nov 13 10:48	0°♍		retrograde	7374 Jun 27 08:02	9°♈34'57
	7371 Dec 07 23:10	0°♊		evening set	7374 Jul 12 06:51	5°♈10'38
	7372 Jan 01 05:44	0°♄		inferior conj	7374 Jul 18 11:07	1°♈28'36 0°44'17
morning set	7372 Jan 10 20:16	11°♄55'46		minimum elong	7374 Jul 18 12:47	1°♈25'59 0°43'41
	7372 Jan 25 08:25	0°♌		min. Earth dist.	7374 Jul 18 01:15	1°♈43'56 0.27961 AU
desc. node	7372 Feb 03 14:39	11°♌33'48			7374 Jul 20 20:32	30°♌♄
max. Earth dist.	7372 Feb 16 21:54	28°♌12'21 1.71545 AU		desc. node	7374 Jul 21 10:22	29°♄39'05
	7372 Feb 18 08:17	0°♋		morning rise	7374 Jul 24 19:30	27°♄42'59
				direct	7374 Aug 08 13:59	23°♄30'15
superior conj	7372 Feb 19 11:24	1°♋24'58 -0°37'20		greatest brilliancy	7374 Aug 18 07:40	25°♄14'13 -4.8m
minimum elong	7372 Feb 19 02:36	0°♋57'26 0°36'54			7374 Aug 28 08:08	0°♈
	7372 Mar 13 06:04	0°♑		morning max el	7374 Sep 26 08:55	23°♈23'52 45°44'16
evening rise	7372 Mar 30 20:41	22°♑07'44			7374 Oct 03 03:06	0°♑
	7372 Apr 06 03:04	0°♄			7374 Oct 31 09:28	0°♌
	7372 Apr 30 01:25	0°♈		asc. node	7374 Nov 11 10:17	12°♌25'14
	7372 May 24 03:38	0°♄			7374 Nov 26 15:25	0°♍
asc. node	7372 May 26 14:16	3°♄01'34			7374 Dec 21 21:06	0°♊
	7372 Jun 17 12:21	0°♈			7375 Jan 15 12:39	0°♄
	7372 Jul 12 06:41	0°♑			7375 Feb 08 19:41	0°♌
	7372 Aug 06 16:14	0°♌		desc. node	7375 Mar 03 02:40	27°♌46'31
	7372 Sep 02 05:27	0°♍			7375 Mar 04 21:23	0°♋
desc. node	7372 Sep 15 07:36	13°♍58'00		morning set	7375 Mar 26 16:16	27°♋18'21
evening max el	7372 Sep 29 06:50	27°♍56'34 45°39'42			7375 Mar 28 19:45	0°♑
	7372 Oct 01 10:57	0°♊			7375 Apr 21 16:34	0°♄
greatest brilliancy	7372 Nov 07 10:40	25°♊58'48 -4.7m				
retrograde	7372 Nov 16 23:16	27°♊37'05		superior conj	7375 May 06 11:16	18°♋34'24 -1°25'28
evening set	7372 Dec 03 15:12	22°♊19'40		minimum elong	7375 May 06 16:21	18°♋50'21 1°25'30
inferior conj	7372 Dec 08 03:33	19°♊35'00 -6°25'02		max. Earth dist.	7375 May 08 23:48	21°♋44'25 1.71372 AU
minimum elong	7372 Dec 08 13:42	19°♊19'12 6°22'51			7375 May 15 13:46	0°♈
min. Earth dist.	7372 Dec 09 00:27	19°♊02'29 0.28351 AU			7375 Jun 08 13:16	0°♄
morning rise	7372 Dec 13 11:47	16°♊21'10		evening rise	7375 Jun 15 16:32	8°♄53'39
direct	7372 Dec 29 11:35	11°♊23'32		asc. node	7375 Jun 24 02:05	19°♄20'16
asc. node	7373 Jan 06 07:46	12°♊34'01			7375 Jul 02 16:26	0°♈
greatest brilliancy	7373 Jan 09 15:08	13°♊42'10 -4.8m			7375 Jul 27 00:15	0°♑
	7373 Feb 03 00:45	0°♄			7375 Aug 20 13:59	0°♌
morning max el	7373 Feb 17 18:39	13°♄55'15 46°38'47			7375 Sep 14 12:03	0°♍
	7373 Mar 05 01:45	0°♌			7375 Oct 09 22:45	0°♊
	7373 Mar 31 12:20	0°♋		desc. node	7375 Oct 13 19:19	4°♊28'29
	7373 Apr 25 17:31	0°♑			7375 Nov 05 05:49	0°♄
desc. node	7373 Apr 28 00:56	2°♑47'14			7375 Dec 03 04:43	0°♌

evening max el	7375 Dec 11 08:10	8° \approx 06'57	46°14'34		7378 Jun 23 04:55	0° \ominus	
	7376 Jan 06 00:27	0° H			7378 Jul 17 08:27	0° Ω	
greatest brilliancy	7376 Jan 20 03:41	7° H 32'15	-4.8m				
retrograde	7376 Jan 29 21:35	9° H 18'31		superior conj	7378 Jul 18 23:11	2° Ω 00'04	-0°06'21
asc. node	7376 Feb 03 19:30	8° H 49'20		minimum elong	7378 Jul 19 00:40	2° Ω 04'40	0°06'22
evening set	7376 Feb 13 11:50	5° H 08'44		behind sun begin	7378 Jul 18 02:29	0° Ω 55'54	
inferior conj	7376 Feb 19 14:11	1° H 33'57	3°57'02	behind sun end	7378 Jul 19 22:52	3° Ω 13'25	
minimum elong	7376 Feb 19 05:47	1° H 46'50	3°54'37	max. Earth dist.	7378 Jul 21 16:01	5° Ω 20'54	1.72657 AU
min. Earth dist.	7376 Feb 19 14:09	1° H 33'58	0.26957 AU	asc. node	7378 Jul 21 13:52	5° Ω 14'15	
	7376 Feb 22 03:43	30° R \approx			7378 Aug 10 14:24	0° H	
morning rise	7376 Feb 24 23:24	28° \approx 21'33		evening rise	7378 Aug 25 11:00	18° H 19'30	
direct	7376 Mar 11 06:09	23° \approx 45'32			7378 Sep 03 22:42	0° H	
greatest brilliancy	7376 Mar 21 09:13	25° \approx 41'14	-4.9m		7378 Sep 28 09:48	0° H	
	7376 Mar 30 04:39	0° H			7378 Oct 23 00:52	0° H	
morning max el	7376 Apr 30 17:25	26° H 36'14	46°58'34	desc. node	7378 Nov 10 07:06	22° H 04'16	
	7376 May 04 01:30	0° Y			7378 Nov 16 21:17	0° H	
desc. node	7376 May 25 12:59	23° Y 10'05			7378 Dec 12 00:30	0° \approx	
	7376 May 31 14:21	0° H			7379 Jan 06 13:46	0° H	
	7376 Jun 26 11:03	0° H			7379 Feb 01 23:55	0° Y	
	7376 Jul 21 16:28	0° \ominus		evening max el	7379 Feb 22 03:20	21° Y 22'30	46°58'54
	7376 Aug 15 15:06	0° Ω			7379 Mar 02 23:35	0° H	
	7376 Sep 09 09:34	0° H		asc. node	7379 Mar 03 07:07	0° H 17'40	
asc. node	7376 Sep 15 12:00	7° H 25'09		greatest brilliancy	7379 Apr 03 20:49	22° H 35'27	-4.9m
	7376 Oct 04 00:08	0° H		retrograde	7379 Apr 13 18:17	24° H 27'26	
	7376 Oct 28 10:49	0° H		evening set	7379 May 01 20:42	18° H 10'29	
morning set	7376 Oct 29 21:05	1° H 45'31		inferior conj	7379 May 04 11:14	16° H 34'52	9°00'18
	7376 Nov 21 18:19	0° H		minimum elong	7379 May 04 15:22	16° H 28'30	9°00'00
max. Earth dist.	7376 Dec 03 08:37	14° H 21'08	1.72793 AU	min. Earth dist.	7379 May 04 08:11	16° H 39'33	0.27207 AU
				morning rise	7379 May 07 10:07	14° H 46'55	
superior conj	7376 Dec 05 15:06	17° H 09'50	1°05'07	direct	7379 May 25 02:49	8° H 46'45	
minimum elong	7376 Dec 06 00:46	17° H 39'48	1°04'54	greatest brilliancy	7379 Jun 03 15:54	10° H 29'57	-4.9m
	7376 Dec 15 23:40	0° H		desc. node	7379 Jun 23 00:35	21° H 49'47	
desc. node	7377 Jan 05 04:44	25° H 05'28			7379 Jul 02 18:55	0° H	
	7377 Jan 09 03:31	0° \approx		morning max el	7379 Jul 14 01:00	10° H 35'07	46°23'13
evening rise	7377 Jan 13 00:14	4° \approx 48'09			7379 Aug 01 19:52	0° \ominus	
	7377 Feb 02 06:03	0° H			7379 Aug 28 20:28	0° Ω	
	7377 Feb 26 07:40	0° Y			7379 Sep 23 18:45	0° H	
	7377 Mar 22 09:56	0° H		asc. node	7379 Oct 14 00:11	23° H 56'05	
	7377 Apr 15 16:07	0° H			7379 Oct 19 01:59	0° H	
asc. node	7377 Apr 28 04:28	15° H 19'12			7379 Nov 12 22:14	0° H	
	7377 May 10 07:11	0° \ominus			7379 Dec 07 10:20	0° H	
	7377 Jun 04 14:59	0° Ω			7379 Dec 31 16:46	0° H	
	7377 Jul 01 08:04	0° H		morning set	7380 Jan 08 10:54	9° H 37'53	
evening max el	7377 Jul 17 22:07	17° H 07'06	45°57'56		7380 Jan 24 19:25	0° \approx	
	7377 Jul 31 21:50	0° H		desc. node	7380 Feb 02 16:37	11° \approx 05'33	
desc. node	7377 Aug 17 22:05	12° H 18'41		max. Earth dist.	7380 Feb 14 08:48	25° \approx 41'42	1.71575 AU
greatest brilliancy	7377 Aug 25 11:06	15° H 54'14	-4.7m				
retrograde	7377 Sep 05 05:55	18° H 01'35		superior conj	7380 Feb 16 23:24	28° \approx 57'45	-0°33'49
evening set	7377 Sep 22 08:14	12° H 28'42		minimum elong	7380 Feb 16 15:21	28° \approx 32'29	0°33'24
inferior conj	7377 Sep 26 19:42	9° H 43'32	-7°42'49		7380 Feb 17 19:17	0° H	
minimum elong	7377 Sep 26 11:40	9° H 56'09	7°41'45		7380 Mar 12 17:06	0° Y	
min. Earth dist.	7377 Sep 26 11:25	9° H 56'32	0.29114 AU	evening rise	7380 Mar 28 07:52	19° Y 37'13	
morning rise	7377 Sep 30 15:09	7° H 22'03			7380 Apr 05 14:11	0° H	
direct	7377 Oct 18 08:00	1° H 27'13			7380 Apr 29 12:39	0° H	
greatest brilliancy	7377 Oct 28 13:49	3° H 20'29	-4.7m		7380 May 23 15:06	0° \ominus	
	7377 Dec 04 13:13	0° H		asc. node	7380 May 25 16:11	2° \ominus 31'57	
morning max el	7377 Dec 06 09:17	1° H 46'17	45°53'17		7380 Jun 17 00:09	0° Ω	
asc. node	7377 Dec 08 22:01	4° H 15'16			7380 Jul 11 19:06	0° H	
	7378 Jan 02 06:12	0° H			7380 Aug 06 05:50	0° H	
	7378 Jan 28 08:57	0° H			7380 Sep 01 21:41	0° H	
	7378 Feb 22 09:55	0° \approx		desc. node	7380 Sep 14 09:42	13° H 15'11	
	7378 Mar 18 21:48	0° H		evening max el	7380 Sep 26 22:09	25° H 43'56	45°39'19
desc. node	7378 Mar 30 14:49	14° H 28'59			7380 Oct 01 11:19	0° H	
	7378 Apr 12 02:32	0° Y		greatest brilliancy	7380 Nov 05 01:03	23° H 44'37	-4.7m
	7378 May 06 03:35	0° H		retrograde	7380 Nov 14 13:40	25° H 22'39	
	7378 May 30 03:40	0° H		evening set	7380 Dec 01 09:08	20° H 00'55	
morning set	7378 Jun 10 05:45	13° H 50'21		inferior conj	7380 Dec 05 18:40	17° H 19'56	-6°38'42

minimum elong	7380 Dec 06 04:43	17° ♊ 04'16	6°36'39		7383 May 15 00:43	0° ♊	
min. Earth dist.	7380 Dec 06 15:11	16° ♊ 47'56	0.28408 AU		7383 Jun 08 00:10	0° ♊	
morning rise	7380 Dec 10 23:55	14° ♊ 09'55		evening rise	7383 Jun 13 05:28	6° ♊ 30'29	
direct	7380 Dec 27 03:26	9° ♊ 07'57		asc. node	7383 Jun 23 03:59	18° ♊ 52'15	
asc. node	7381 Jan 05 09:43	10° ♊ 44'53			7383 Jul 02 03:22	0° ♊	
greatest brilliancy	7381 Jan 07 06:08	11° ♊ 25'25	-4.8m		7383 Jul 26 11:21	0° ♊	
	7381 Feb 03 06:12	0° ♊			7383 Aug 20 01:24	0° ♊	
morning max el	7381 Feb 15 09:09	11° ♊ 35'23	46°37'21		7383 Sep 14 00:06	0° ♊	
	7381 Mar 04 19:35	0° ♊			7383 Oct 09 11:55	0° ♊	
	7381 Mar 31 02:53	0° ♊		desc. node	7383 Oct 12 21:18	3° ♊ 55'30	
	7381 Apr 25 06:33	0° ♊			7383 Nov 04 21:11	0° ♊	
desc. node	7381 Apr 27 02:58	2° ♊ 14'14			7383 Dec 03 01:30	0° ♊	
	7381 May 19 21:41	0° ♊		evening max el	7383 Dec 08 20:50	5° ♊ 44'25	46°12'51
	7381 Jun 13 07:24	0° ♊			7384 Jan 07 05:45	0° ♊	
	7381 Jul 07 15:39	0° ♊		greatest brilliancy	7384 Jan 17 16:56	5° ♊ 07'58	-4.8m
	7381 Aug 01 00:09	0° ♊		retrograde	7384 Jan 27 10:12	6° ♊ 53'56	
asc. node	7381 Aug 18 01:56	21° ♊ 01'21		asc. node	7384 Feb 02 21:32	6° ♊ 03'01	
morning set	7381 Aug 20 01:37	23° ♊ 28'05		evening set	7384 Feb 10 23:11	2° ♊ 45'35	
	7381 Aug 25 08:59	0° ♊			7384 Feb 15 17:48	30° ♊	
	7381 Sep 18 17:37	0° ♊		inferior conj	7384 Feb 17 03:06	29° ♊ 09'05	3°35'01
				minimum elong	7384 Feb 16 19:21	29° ♊ 20'58	3°32'44
superior conj	7381 Sep 26 01:41	9° ♊ 02'12	1°16'19	min. Earth dist.	7384 Feb 17 04:16	29° ♊ 07'17	0.26977 AU
minimum elong	7381 Sep 25 18:06	8° ♊ 38'51	1°16'10	morning rise	7384 Feb 22 15:06	25° ♊ 52'58	
max. Earth dist.	7381 Sep 26 00:55	8° ♊ 59'51	1.73352 AU	direct	7384 Mar 08 19:00	21° ♊ 19'50	
	7381 Oct 13 01:55	0° ♊		greatest brilliancy	7384 Mar 19 00:19	23° ♊ 17'41	-4.9m
evening rise	7381 Nov 01 09:44	23° ♊ 48'28			7384 Mar 31 12:39	0° ♊	
	7381 Nov 06 10:24	0° ♊		morning max el	7384 Apr 28 07:04	24° ♊ 12'10	46°59'03
	7381 Nov 30 19:43	0° ♊			7384 May 03 22:48	0° ♊	
desc. node	7381 Dec 07 18:46	8° ♊ 33'16		desc. node	7384 May 24 14:49	22° ♊ 28'29	
	7381 Dec 25 06:02	0° ♊			7384 May 31 06:12	0° ♊	
	7382 Jan 18 17:24	0° ♊			7384 Jun 26 00:39	0° ♊	
	7382 Feb 12 07:03	0° ♊			7384 Jul 21 04:49	0° ♊	
	7382 Mar 09 03:19	0° ♊			7384 Aug 15 02:42	0° ♊	
asc. node	7382 Mar 30 18:46	25° ♊ 30'16			7384 Sep 08 20:42	0° ♊	
	7382 Apr 03 16:22	0° ♊		asc. node	7384 Sep 14 14:03	6° ♊ 57'46	
	7382 Apr 30 23:21	0° ♊			7384 Oct 03 10:59	0° ♊	
evening max el	7382 May 05 16:34	4° ♊ 49'06	46°47'57	morning set	7384 Oct 27 14:26	29° ♊ 38'09	
	7382 Jun 04 04:54	0° ♊			7384 Oct 27 21:32	0° ♊	
greatest brilliancy	7382 Jun 14 03:59	5° ♊ 09'01	-4.8m		7384 Nov 21 05:00	0° ♊	
retrograde	7382 Jun 24 22:47	7° ♊ 18'19		max. Earth dist.	7384 Dec 01 04:11	12° ♊ 19'54	1.72832 AU
evening set	7382 Jul 09 23:08	2° ♊ 52'54					
	7382 Jul 14 19:42	30° ♊		superior conj	7384 Dec 03 07:18	14° ♊ 58'09	1°07'17
min. Earth dist.	7382 Jul 15 17:06	29° ♊ 26'43	0.27921 AU	minimum elong	7384 Dec 03 16:49	15° ♊ 27'37	1°07'05
inferior conj	7382 Jul 16 02:03	29° ♊ 12'47	1°06'01		7384 Dec 15 10:25	0° ♊	
minimum elong	7382 Jul 16 04:32	29° ♊ 08'55	1°05'10	desc. node	7385 Jan 04 06:41	24° ♊ 37'51	
desc. node	7382 Jul 20 12:19	26° ♊ 31'21			7385 Jan 08 14:24	0° ♊	
morning rise	7382 Jul 22 10:38	25° ♊ 26'35		evening rise	7385 Jan 10 14:20	2° ♊ 28'56	
direct	7382 Aug 06 04:15	21° ♊ 15'01			7385 Feb 01 17:06	0° ♊	
greatest brilliancy	7382 Aug 15 22:31	22° ♊ 59'08	-4.8m		7385 Feb 25 18:57	0° ♊	
	7382 Aug 29 12:38	0° ♊			7385 Mar 21 21:32	0° ♊	
morning max el	7382 Sep 23 22:41	21° ♊ 07'28	45°44'48		7385 Apr 15 04:09	0° ♊	
	7382 Oct 02 23:11	0° ♊		asc. node	7385 Apr 27 06:22	14° ♊ 47'22	
	7382 Oct 31 00:28	0° ♊			7385 May 09 19:57	0° ♊	
asc. node	7382 Nov 10 12:11	11° ♊ 50'45			7385 Jun 04 05:09	0° ♊	
	7382 Nov 26 04:26	0° ♊			7385 Jul 01 01:31	0° ♊	
	7382 Dec 21 09:10	0° ♊		evening max el	7385 Jul 15 13:53	14° ♊ 55'02	45°59'38
	7383 Jan 15 00:14	0° ♊			7385 Aug 01 04:29	0° ♊	
	7383 Feb 08 06:59	0° ♊		desc. node	7385 Aug 17 00:09	10° ♊ 56'13	
desc. node	7383 Mar 02 04:40	27° ♊ 17'51		greatest brilliancy	7385 Aug 23 01:50	13° ♊ 43'41	-4.7m
	7383 Mar 04 08:33	0° ♊		retrograde	7385 Sep 02 23:03	15° ♊ 53'06	
morning set	7383 Mar 24 02:24	24° ♊ 44'40		evening set	7385 Sep 19 21:30	10° ♊ 24'28	
	7383 Mar 28 06:50	0° ♊		min. Earth dist.	7385 Sep 24 02:31	7° ♊ 49'48	0.29096 AU
	7383 Apr 21 03:34	0° ♊		inferior conj	7385 Sep 24 12:06	7° ♊ 34'47	-7°33'48
				minimum elong	7385 Sep 24 03:38	7° ♊ 48'04	7°32'36
superior conj	7383 May 03 22:46	16° ♊ 05'22	-1°26'15	morning rise	7385 Sep 28 09:53	5° ♊ 10'06	
minimum elong	7383 May 04 02:53	16° ♊ 18'18	1°26'17		7385 Oct 10 03:30	30° ♊	
max. Earth dist.	7383 May 06 04:16	18° ♊ 53'21	1.71337 AU	direct	7385 Oct 16 00:24	29° ♊ 18'51	

	7385 Oct 22 01:47	0°♄			7388 Apr 28 23:39	0°♄	
greatest brilliancy	7385 Oct 26 04:57	1°♄11'20	-4.7m		7388 May 23 02:17	0°♄	
morning max el	7385 Dec 04 01:41	29°♄36'47	45°52'03	asc. node	7388 May 24 18:08	2°♄03'19	
	7385 Dec 04 11:14	0°♄			7388 Jun 16 11:39	0°♄	
asc. node	7385 Dec 07 23:58	3°♄28'55			7388 Jul 11 07:13	0°♄	
	7386 Jan 01 21:42	0°♄			7388 Aug 05 19:10	0°♄	
	7386 Jan 27 22:15	0°♄			7388 Sep 01 13:44	0°♄	
	7386 Feb 21 22:11	0°♄		desc. node	7388 Sep 13 11:42	12°♄32'58	
	7386 Mar 18 09:31	0°♄		evening max el	7388 Sep 24 13:02	23°♄31'40	45°39'05
desc. node	7386 Mar 29 16:50	13°♄59'34			7388 Oct 01 12:13	0°♄	
	7386 Apr 11 13:53	0°♄		greatest brilliancy	7388 Nov 02 16:11	21°♄33'29	-4.7m
	7386 May 05 14:40	0°♄		retrograde	7388 Nov 12 04:06	23°♄11'02	
	7386 May 29 14:35	0°♄		evening set	7388 Nov 29 03:20	17°♄44'59	
morning set	7386 Jun 07 19:00	11°♄28'06		inferior conj	7388 Dec 03 10:12	15°♄07'43	-6°51'31
	7386 Jun 22 15:41	0°♄		minimum elong	7388 Dec 03 20:03	14°♄52'18	6°49'36
				min. Earth dist.	7388 Dec 04 06:31	14°♄35'58	0.28464 AU
superior conj	7386 Jul 16 14:12	29°♄44'44	-0°09'52	morning rise	7388 Dec 08 12:23	12°♄01'38	
minimum elong	7386 Jul 16 16:30	29°♄51'53	0°09'50	direct	7388 Dec 24 19:07	6°♄55'09	
behind sun begin	7386 Jul 15 21:18	28°♄52'20		asc. node	7389 Jan 04 11:45	9°♄02'10	
behind sun end	7386 Jul 17 11:41	0°♄51'24		greatest brilliancy	7389 Jan 04 21:50	9°♄11'53	-4.8m
	7386 Jul 16 19:07	0°♄			7389 Feb 03 09:05	0°♄	
max. Earth dist.	7386 Jul 19 09:31	3°♄13'26	1.72613 AU	morning max el	7389 Feb 12 23:12	9°♄15'55	46°35'39
asc. node	7386 Jul 20 15:57	4°♄47'42			7389 Mar 04 12:33	0°♄	
	7386 Aug 10 01:01	0°♄			7389 Mar 30 16:56	0°♄	
evening rise	7386 Aug 23 04:25	16°♄12'42			7389 Apr 24 19:15	0°♄	
	7386 Sep 03 09:20	0°♄		desc. node	7389 Apr 26 04:49	1°♄41'37	
	7386 Sep 27 20:35	0°♄			7389 May 19 09:37	0°♄	
	7386 Oct 22 12:00	0°♄			7389 Jun 12 18:49	0°♄	
desc. node	7386 Nov 09 09:00	21°♄35'11			7389 Jul 07 02:41	0°♄	
	7386 Nov 16 09:02	0°♄			7389 Jul 31 10:53	0°♄	
	7386 Dec 11 13:14	0°♄		asc. node	7389 Aug 17 03:56	20°♄34'52	
	7387 Jan 06 04:07	0°♄		morning set	7389 Aug 17 18:09	21°♄18'39	
	7387 Feb 01 17:31	0°♄			7389 Aug 24 19:31	0°♄	
evening max el	7387 Feb 19 18:01	19°♄01'30	46°58'02		7389 Sep 18 04:04	0°♄	
asc. node	7387 Mar 02 09:13	29°♄18'13					
	7387 Mar 03 03:26	0°♄		superior conj	7389 Sep 23 19:28	6°♄57'00	1°14'48
greatest brilliancy	7387 Apr 01 09:35	20°♄09'30	-4.9m	minimum elong	7389 Sep 23 11:29	6°♄32'27	1°14'37
retrograde	7387 Apr 11 07:59	22°♄01'45		max. Earth dist.	7389 Sep 23 18:45	6°♄54'47	1.73346 AU
evening set	7387 Apr 29 10:58	15°♄43'11			7389 Oct 12 12:22	0°♄	
inferior conj	7387 May 02 00:07	14°♄09'32	9°04'30	evening rise	7389 Oct 30 03:03	21°♄41'39	
minimum elong	7387 May 02 03:19	14°♄04'35	9°04'17		7389 Nov 05 20:57	0°♄	
min. Earth dist.	7387 May 01 20:12	14°♄15'33	0.27188 AU		7389 Nov 30 06:28	0°♄	
morning rise	7387 May 04 19:47	12°♄26'21		desc. node	7389 Dec 06 20:49	8°♄06'14	
direct	7387 May 22 16:06	6°♄21'58			7389 Dec 24 17:06	0°♄	
greatest brilliancy	7387 Jun 01 03:25	8°♄03'53	-4.9m		7390 Jan 18 04:56	0°♄	
desc. node	7387 Jun 22 02:37	20°♄38'47			7390 Feb 11 19:17	0°♄	
	7387 Jul 02 23:09	0°♄			7390 Mar 08 16:40	0°♄	
morning max el	7387 Jul 11 15:05	8°♄15'25	46°24'50	asc. node	7390 Mar 29 20:37	24°♄52'21	
	7387 Aug 01 13:18	0°♄			7390 Apr 03 07:48	0°♄	
	7387 Aug 28 10:30	0°♄			7390 Apr 30 20:04	0°♄	
	7387 Sep 23 07:10	0°♄		evening max el	7390 May 03 06:00	2°♄26'56	46°49'13
asc. node	7387 Oct 13 02:04	23°♄27'01			7390 Jun 05 16:29	0°♄	
	7387 Oct 18 13:28	0°♄		greatest brilliancy	7390 Jun 11 20:43	2°♄53'43	-4.8m
	7387 Nov 12 09:13	0°♄		retrograde	7390 Jun 22 13:22	5°♄01'34	
	7387 Dec 06 21:03	0°♄		evening set	7390 Jul 07 15:19	0°♄34'31	
	7387 Dec 31 03:26	0°♄			7390 Jul 08 15:53	30°♄	
morning set	7388 Jan 06 01:46	7°♄21'51		inferior conj	7390 Jul 13 16:46	26°♄56'48	1°27'55
	7388 Jan 24 06:06	0°♄		minimum elong	7390 Jul 13 20:03	26°♄51'40	1°26'49
desc. node	7388 Feb 01 18:42	10°♄38'42		min. Earth dist.	7390 Jul 13 08:53	27°♄09'04	0.27881 AU
max. Earth dist.	7388 Feb 11 16:53	23°♄03'19	1.71616 AU	desc. node	7390 Jul 19 14:23	23°♄25'20	
				morning rise	7390 Jul 20 01:21	23°♄10'25	
superior conj	7388 Feb 14 11:23	26°♄31'24	-0°30'14	direct	7390 Aug 03 17:53	18°♄59'27	
minimum elong	7388 Feb 14 04:06	26°♄08'37	0°29'50	greatest brilliancy	7390 Aug 13 13:27	20°♄44'22	-4.8m
	7388 Feb 17 06:00	0°♄			7390 Aug 30 09:06	0°♄	
	7388 Mar 12 03:53	0°♄		morning max el	7390 Sep 21 12:44	18°♄52'29	45°45'35
evening rise	7388 Mar 25 18:37	17°♄06'09			7390 Oct 02 18:18	0°♄	
	7388 Apr 05 01:03	0°♄			7390 Oct 30 14:53	0°♄	

asc. node	7390 Nov 09 14:06	11°♌17'36		7393 Jun 03 19:21	0°♏	
	7390 Nov 25 17:00	0°♍		7393 Jun 30 19:22	0°♎	
	7390 Dec 20 20:49	0°♊	evening max el	7393 Jul 13 06:26	12°♎44'43	46°01'05
	7391 Jan 14 11:23	0°♋		7393 Aug 01 13:57	0°♌	
	7391 Feb 07 17:53	0°♈	desc. node	7393 Aug 16 02:08	9°♌30'15	
desc. node	7391 Mar 01 06:41	26°♈50'25	greatest brilliancy	7393 Aug 20 16:45	11°♌32'34	-4.7m
	7391 Mar 03 19:19	0°♋	retrograde	7393 Aug 31 15:53	13°♌43'23	
morning set	7391 Mar 21 12:55	22°♋13'18	evening set	7393 Sep 17 10:33	8°♌19'23	
	7391 Mar 27 17:34	0°♐	min. Earth dist.	7393 Sep 21 17:26	5°♌42'00	0.29073 AU
	7391 Apr 20 14:17	0°♉	inferior conj	7393 Sep 22 04:16	5°♌25'01	-7°24'01
			minimum elong	7393 Sep 21 19:26	5°♌38'53	7°22'40
superior conj	7391 May 01 10:07	13°♉36'40 -1°26'51	morning rise	7393 Sep 26 04:29	2°♌56'52	
minimum elong	7391 May 01 13:12	13°♉46'23 1°26'54		7393 Oct 01 16:53	30°♎	
max. Earth dist.	7391 May 03 07:19	15°♉58'39 1.71316 AU	direct	7393 Oct 13 16:53	27°♎09'40	
	7391 May 14 11:25	0°♊	greatest brilliancy	7393 Oct 23 19:22	29°♎00'42	-4.7m
	7391 Jun 07 10:53	0°♈		7393 Oct 26 08:42	0°♌	
evening rise	7391 Jun 10 17:52	4°♈06'11	morning max el	7393 Dec 01 17:45	27°♌26'25	45°50'57
asc. node	7391 Jun 22 06:02	18°♈25'12		7393 Dec 04 08:30	0°♍	
	7391 Jul 01 14:09	0°♏	asc. node	7393 Dec 07 02:05	2°♍43'35	
	7391 Jul 25 22:17	0°♎		7394 Jan 01 12:57	0°♊	
	7391 Aug 19 12:40	0°♌		7394 Jan 27 11:25	0°♋	
	7391 Sep 13 11:58	0°♍		7394 Feb 21 10:23	0°♈	
	7391 Oct 09 00:56	0°♊		7394 Mar 17 21:10	0°♋	
desc. node	7391 Oct 11 23:12	3°♊22'52	desc. node	7394 Mar 28 18:42	13°♋29'46	
	7391 Nov 04 12:29	0°♋		7394 Apr 11 01:11	0°♐	
	7391 Dec 02 22:40	0°♈		7394 May 05 01:44	0°♉	
evening max el	7391 Dec 06 10:39	3°♈25'55 46°11'17		7394 May 29 01:27	0°♊	
	7392 Jan 08 22:59	0°♋	morning set	7394 Jun 05 08:31	9°♊06'40	
greatest brilliancy	7392 Jan 15 05:54	2°♋45'02 -4.8m		7394 Jun 22 02:26	0°♈	
retrograde	7392 Jan 24 23:34	4°♋31'16				
asc. node	7392 Feb 01 23:33	3°♋13'12	superior conj	7394 Jul 14 05:11	27°♈29'12	-0°13'22
evening set	7392 Feb 08 11:04	0°♋23'59	minimum elong	7394 Jul 14 08:17	27°♈38'51	0°13'17
	7392 Feb 09 04:49	30°♎	behind sun begin	7394 Jul 13 18:38	26°♈56'29	
inferior conj	7392 Feb 14 16:15	26°♈45'59 3°12'44	behind sun end	7394 Jul 14 21:57	28°♈21'13	
minimum elong	7392 Feb 14 09:11	26°♈56'47 3°10'37		7394 Jul 16 05:48	0°♏	
min. Earth dist.	7392 Feb 14 18:17	26°♈42'52 0.26998 AU	max. Earth dist.	7394 Jul 17 04:34	1°♏10'36	1.72574 AU
morning rise	7392 Feb 20 06:54	23°♈26'30	asc. node	7394 Jul 19 17:55	4°♏20'43	
direct	7392 Mar 06 08:34	18°♈56'05		7394 Aug 09 11:42	0°♎	
greatest brilliancy	7392 Mar 16 15:01	20°♈55'23 -4.9m	evening rise	7394 Aug 20 21:38	14°♎04'53	
	7392 Apr 01 10:55	0°♋		7394 Sep 02 20:06	0°♌	
morning max el	7392 Apr 25 21:47	21°♋52'00 46°59'17		7394 Sep 27 07:33	0°♍	
	7392 May 03 18:57	0°♐		7394 Oct 21 23:21	0°♊	
desc. node	7392 May 23 16:55	21°♐48'56	desc. node	7394 Nov 08 11:01	21°♊05'55	
	7392 May 30 21:31	0°♉		7394 Nov 15 21:00	0°♋	
	7392 Jun 25 13:57	0°♊		7394 Dec 11 02:11	0°♈	
	7392 Jul 20 17:02	0°♈		7395 Jan 05 18:45	0°♋	
	7392 Aug 14 14:13	0°♏		7395 Feb 01 11:38	0°♐	
	7392 Sep 08 07:45	0°♎	evening max el	7395 Feb 17 08:28	16°♐39'37	46°57'05
asc. node	7392 Sep 13 15:57	6°♎30'13	asc. node	7395 Mar 01 11:07	28°♐16'42	
	7392 Oct 02 21:44	0°♌		7395 Mar 03 09:17	0°♉	
morning set	7392 Oct 25 07:39	27°♌30'53	greatest brilliancy	7395 Mar 29 23:07	17°♉44'18	-4.9m
	7392 Oct 27 08:07	0°♍	retrograde	7395 Apr 08 21:17	19°♉35'54	
	7392 Nov 20 15:33	0°♊	evening set	7395 Apr 27 00:53	13°♉16'47	
max. Earth dist.	7392 Nov 29 00:12	10°♊20'35 1.72866 AU	inferior conj	7395 Apr 29 13:08	11°♉44'20	9°07'40
			minimum elong	7395 Apr 29 15:24	11°♉40'49	9°07'32
superior conj	7392 Nov 30 23:34	12°♊47'12 1°09'20	min. Earth dist.	7395 Apr 29 08:43	11°♉51'08	0.27166 AU
minimum elong	7392 Dec 01 08:52	13°♊15'59 1°09'09	morning rise	7395 May 02 06:01	10°♉05'08	
	7392 Dec 14 21:01	0°♋	direct	7395 May 20 05:11	3°♉57'19	
desc. node	7393 Jan 03 08:45	24°♋10'58	greatest brilliancy	7395 May 29 15:31	5°♉38'16	-4.9m
evening rise	7393 Jan 08 04:42	0°♈11'05	desc. node	7395 Jun 21 04:39	19°♉29'46	
	7393 Jan 08 01:08	0°♈		7395 Jul 03 01:46	0°♊	
	7393 Feb 01 04:02	0°♋	morning max el	7395 Jul 09 04:14	5°♊53'10	46°26'27
	7393 Feb 25 06:05	0°♐		7395 Aug 01 06:25	0°♈	
	7393 Mar 21 08:56	0°♉		7395 Aug 28 00:31	0°♏	
	7393 Apr 14 16:00	0°♊		7395 Sep 22 19:41	0°♎	
asc. node	7393 Apr 26 08:22	14°♊16'18	asc. node	7395 Oct 12 04:01	22°♎57'28	
	7393 May 09 08:36	0°♈		7395 Oct 18 01:11	0°♌	

	7395 Nov 11 20:28	0°♌		retrograde	7398 Jun 20 04:18	2°♏43'48	
	7395 Dec 06 08:04	0°♊			7398 Jul 01 20:07	30°♑☾	
	7395 Dec 30 14:20	0°♊		evening set	7398 Jul 05 07:39	28°☾14'30	
morning set	7396 Jan 03 16:32	5°♊04'48		inferior conj	7398 Jul 11 07:27	24°☾39'32	1°49'47
	7396 Jan 23 17:00	0°♊		minimum elong	7398 Jul 11 11:33	24°☾33'09	1°48'26
desc. node	7396 Jan 31 20:35	10°♊10'33		min. Earth dist.	7398 Jul 11 00:30	24°☾50'19	0.27844 AU
max. Earth dist.	7396 Feb 09 01:02	20°♊24'33	1.71655 AU	morning rise	7398 Jul 17 15:55	20°☾53'26	
				desc. node	7398 Jul 18 16:21	20°☾21'19	
superior conj	7396 Feb 11 23:26	24°♊04'43	-0°26'36	direct	7398 Aug 01 07:28	16°☾42'26	
minimum elong	7396 Feb 11 16:58	23°♊44'30	0°26'14	greatest brilliancy	7398 Aug 11 04:22	18°☾28'24	-4.8m
	7396 Feb 16 16:56	0°♋			7398 Aug 31 00:49	0°♏	
	7396 Mar 11 14:53	0°♋		morning max el	7398 Sep 19 03:45	16°♏38'41	45°46'28
evening rise	7396 Mar 23 05:33	14°♋34'57			7398 Oct 02 13:17	0°♐	
	7396 Apr 04 12:09	0°♋			7398 Oct 30 05:30	0°♑	
	7396 Apr 28 10:53	0°♌		asc. node	7398 Nov 08 16:14	10°♑44'12	
	7396 May 22 13:43	0°☾			7398 Nov 25 05:52	0°♌	
asc. node	7396 May 23 20:12	1°☾34'18			7398 Dec 20 08:50	0°♊	
	7396 Jun 15 23:25	0°♏			7399 Jan 13 22:58	0°♊	
	7396 Jul 10 19:36	0°♐			7399 Feb 07 05:15	0°♊	
	7396 Aug 05 08:51	0°♑		desc. node	7399 Feb 28 08:37	26°♊21'16	
	7396 Sep 01 06:25	0°♌			7399 Mar 03 06:34	0°♋	
desc. node	7396 Sep 12 13:36	11°♌48'59		morning set	7399 Mar 18 23:10	19°♋39'43	
evening max el	7396 Sep 22 03:00	21°♌16'12	45°38'43		7399 Mar 27 04:44	0°♋	
	7396 Oct 01 15:05	0°♊			7399 Apr 20 01:24	0°♋	
greatest brilliancy	7396 Oct 31 07:08	19°♊20'36	-4.7m				
retrograde	7396 Nov 09 18:22	20°♊57'59		superior conj	7399 Apr 28 21:10	11°♋05'44	-1°27'17
evening set	7396 Nov 26 21:21	15°♊27'17		minimum elong	7399 Apr 28 23:11	11°♋12'04	1°27'20
inferior conj	7396 Dec 01 01:34	12°♊53'56	-7°03'45	max. Earth dist.	7399 Apr 30 13:13	13°♋11'36	1.71293 AU
minimum elong	7396 Dec 01 11:12	12°♊38'52	7°01'57		7399 May 13 22:29	0°♌	
min. Earth dist.	7396 Dec 01 21:57	12°♊22'04	0.28522 AU		7399 Jun 06 21:57	0°☾	
morning rise	7396 Dec 06 00:38	9°♊52'03		evening rise	7399 Jun 08 06:12	1°☾40'30	
direct	7396 Dec 22 10:21	4°♊40'31		asc. node	7399 Jun 21 08:00	17°☾56'45	
greatest brilliancy	7397 Jan 02 14:02	6°♊57'30	-4.8m		7399 Jul 01 01:18	0°♏	
asc. node	7397 Jan 03 13:43	7°♊21'31			7399 Jul 25 09:37	0°♐	
	7397 Feb 03 11:03	0°♊			7399 Aug 19 00:21	0°♑	
morning max el	7397 Feb 10 13:13	6°♊55'08	46°34'11		7399 Sep 13 00:16	0°♌	
	7397 Mar 04 05:35	0°♊			7399 Oct 08 14:24	0°♊	
	7397 Mar 30 07:10	0°♋		desc. node	7399 Oct 11 01:19	2°♊49'39	
	7397 Apr 24 08:10	0°♋			7399 Nov 04 04:25	0°♊	
desc. node	7397 Apr 25 06:54	1°♋08'54			7399 Dec 02 21:07	0°♊	
	7397 May 18 21:48	0°♋		evening max el	7399 Dec 04 01:10	1°♊08'09	46°09'32
	7397 Jun 12 06:31	0°♌			7400 Jan 11 20:04	0°♋	
	7397 Jul 06 14:01	0°☾		greatest brilliancy	7400 Jan 12 18:20	0°♋20'07	-4.8m
	7397 Jul 30 21:55	0°♏		retrograde	7400 Jan 22 12:51	2°♋06'39	
morning set	7397 Aug 15 10:47	19°♏08'31		asc. node	7400 Feb 01 01:28	0°♋16'09	
asc. node	7397 Aug 16 05:50	20°♏07'09			7400 Feb 01 17:52	30°♋☾	
	7397 Aug 24 06:22	0°♐		evening set	7400 Feb 05 23:03	28°♋00'24	
	7397 Sep 17 14:50	0°♑		inferior conj	7400 Feb 12 05:11	24°♋20'56	2°49'53
				minimum elong	7400 Feb 11 22:53	24°♋30'35	2°47'59
superior conj	7397 Sep 21 13:22	4°♑51'12	1°13'10	min. Earth dist.	7400 Feb 12 07:58	24°♋16'40	0.27023 AU
minimum elong	7397 Sep 21 05:02	4°♑25'33	1°12'58	morning rise	7400 Feb 17 22:21	20°♋58'13	
max. Earth dist.	7397 Sep 21 13:09	4°♑50'33	1.73343 AU	direct	7400 Mar 04 22:30	16°♋30'30	
	7397 Oct 11 23:10	0°♌		greatest brilliancy	7400 Mar 15 05:16	18°♋30'38	-4.9m
evening rise	7397 Oct 27 20:31	19°♌34'12			7400 Apr 03 04:17	0°♋	
	7397 Nov 05 07:54	0°♊		morning max el	7400 Apr 24 12:42	19°♋30'47	46°59'29
	7397 Nov 29 17:40	0°♊			7400 May 04 15:05	0°♋	
desc. node	7397 Dec 05 22:52	7°♊37'53		desc. node	7400 May 23 18:57	21°♋08'18	
	7397 Dec 24 04:39	0°♊			7400 May 31 13:04	0°♋	
	7398 Jan 17 16:58	0°♋			7400 Jun 26 03:31	0°♌	
	7398 Feb 11 08:01	0°♋			7400 Jul 21 05:29	0°☾	
	7398 Mar 08 06:32	0°♋			7400 Aug 15 01:59	0°♏	
asc. node	7398 Mar 28 22:38	24°♋13'31			7400 Sep 08 19:04	0°♐	
	7398 Apr 02 23:51	0°♌		asc. node	7400 Sep 13 17:57	6°♐02'01	
	7398 Apr 30 17:57	0°☾			7400 Oct 03 08:46	0°♑	
evening max el	7398 Apr 30 19:19	0°☾03'26	46°50'36	morning set	7400 Oct 24 01:11	25°♑23'39	
	7398 Jun 08 00:37	0°♏			7400 Oct 27 18:59	0°♌	
greatest brilliancy	7398 Jun 09 12:57	0°♏36'39	-4.8m		7400 Nov 21 02:22	0°♊	

max. Earth dist.	7400 Nov 27 19:17	8° ♁ 17'33	1.72896 AU	min. Earth dist.	7403 Apr 27 21:35	9° ♁ 26'07	0.27150 AU
				morning rise	7403 Apr 30 16:50	7° ♁ 43'00	
superior conj	7400 Nov 29 16:15	10° ♁ 36'42	1°11'16	direct	7403 May 18 17:48	1° ♁ 32'19	
minimum elong	7400 Nov 30 01:15	11° ♁ 04'33	1°11'06	greatest brilliancy	7403 May 28 04:24	3° ♁ 13'05	-4.9m
	7400 Dec 15 07:54	0° ♁		desc. node	7403 Jun 21 06:35	18° ♁ 22'06	
desc. node	7401 Jan 03 10:41	23° ♁ 42'49			7403 Jul 04 03:09	0° ♁	
evening rise	7401 Jan 06 19:20	27° ♁ 53'11		morning max el	7403 Jul 07 16:50	3° ♁ 28'51	46°28'04
	7401 Jan 08 12:10	0° ♁			7403 Aug 01 23:18	0° ♁	
	7401 Feb 01 15:16	0° ♁			7403 Aug 28 14:26	0° ♁	
	7401 Feb 25 17:34	0° ♁			7403 Sep 23 08:07	0° ♁	
	7401 Mar 21 20:45	0° ♁		asc. node	7403 Oct 12 06:07	22° ♁ 28'34	
	7401 Apr 15 04:17	0° ♁			7403 Oct 18 12:46	0° ♁	
asc. node	7401 Apr 26 10:25	13° ♁ 44'12			7403 Nov 12 07:36	0° ♁	
	7401 May 09 21:43	0° ♁			7403 Dec 06 18:59	0° ♁	
	7401 Jun 04 10:03	0° ♁			7403 Dec 31 01:10	0° ♁	
	7401 Jul 01 13:59	0° ♁		morning set	7404 Jan 02 07:36	2° ♁ 48'58	
evening max el	7401 Jul 11 23:07	10° ♁ 33'49	46°02'41		7404 Jan 24 03:47	0° ♁	
	7401 Aug 03 03:07	0° ♁		desc. node	7404 Jan 31 22:36	9° ♁ 43'05	
desc. node	7401 Aug 16 04:05	8° ♁ 00'52		max. Earth dist.	7404 Feb 07 10:59	17° ♁ 51'47	1.71694 AU
greatest brilliancy	7401 Aug 19 08:20	9° ♁ 21'44	-4.7m				
retrograde	7401 Aug 30 08:26	11° ♁ 33'08		superior conj	7404 Feb 10 11:56	21° ♁ 39'57	-0°22'57
evening set	7401 Sep 15 23:46	6° ♁ 14'00		minimum elong	7404 Feb 10 06:19	21° ♁ 22'22	0°22'38
inferior conj	7401 Sep 20 20:31	3° ♁ 14'56	-7°13'36		7404 Feb 17 03:44	0° ♁	
minimum elong	7401 Sep 20 11:22	3° ♁ 29'18	7°12'08		7404 Mar 12 01:44	0° ♁	
min. Earth dist.	7401 Sep 20 08:40	3° ♁ 33'32	0.29046 AU	evening rise	7404 Mar 21 16:58	12° ♁ 05'52	
morning rise	7401 Sep 24 23:12	0° ♁ 43'05			7404 Apr 04 23:06	0° ♁	
	7401 Sep 26 04:51	30° ♁			7404 Apr 28 21:59	0° ♁	
direct	7401 Oct 12 09:27	25° ♁ 00'18			7404 May 23 01:01	0° ♁	
greatest brilliancy	7401 Oct 22 09:48	26° ♁ 49'34	-4.7m	asc. node	7404 May 23 22:08	1° ♁ 05'17	
	7401 Oct 29 12:44	0° ♁			7404 Jun 16 11:05	0° ♁	
morning max el	7401 Nov 30 09:18	25° ♁ 14'26	45°49'56		7404 Jul 11 07:58	0° ♁	
	7401 Dec 05 05:11	0° ♁			7404 Aug 05 22:35	0° ♁	
asc. node	7401 Dec 07 03:58	1° ♁ 57'55			7404 Sep 01 23:18	0° ♁	
	7402 Jan 02 04:08	0° ♁		desc. node	7404 Sep 12 15:44	11° ♁ 05'26	
	7402 Jan 28 00:37	0° ♁		evening max el	7404 Sep 20 16:49	19° ♁ 00'55	45°38'39
	7402 Feb 21 22:39	0° ♁			7404 Oct 02 19:25	0° ♁	
	7402 Mar 18 08:57	0° ♁		greatest brilliancy	7404 Oct 29 21:35	17° ♁ 08'12	-4.7m
desc. node	7402 Mar 28 20:47	13° ♁ 00'12		retrograde	7404 Nov 08 09:10	18° ♁ 46'18	
	7402 Apr 11 12:40	0° ♁		evening set	7404 Nov 25 15:25	13° ♁ 10'44	
	7402 May 05 12:59	0° ♁		inferior conj	7404 Nov 29 17:06	10° ♁ 41'18	-7°15'08
	7402 May 29 12:33	0° ♁		minimum elong	7404 Nov 30 02:27	10° ♁ 26'40	7°13'30
morning set	7402 Jun 03 21:30	6° ♁ 42'51		min. Earth dist.	7404 Nov 30 13:17	10° ♁ 09'45	0.28579 AU
	7402 Jun 22 13:24	0° ♁		morning rise	7404 Dec 04 13:03	7° ♁ 43'56	
				direct	7404 Dec 21 01:47	2° ♁ 26'57	
superior conj	7402 Jul 12 19:45	25° ♁ 11'46	-0°16'53	greatest brilliancy	7405 Jan 01 06:31	4° ♁ 44'39	-4.8m
minimum elong	7402 Jul 12 23:40	25° ♁ 23'56	0°16'46	asc. node	7405 Jan 03 15:41	5° ♁ 45'28	
max. Earth dist.	7402 Jul 15 23:20	29° ♁ 06'15	1.72526 AU		7405 Feb 04 11:21	0° ♁	
	7402 Jul 16 16:40	0° ♁		morning max el	7405 Feb 09 04:13	4° ♁ 37'46	46°32'46
asc. node	7402 Jul 19 19:49	3° ♁ 52'58			7405 Mar 04 21:59	0° ♁	
	7402 Aug 09 22:31	0° ♁			7405 Mar 30 20:57	0° ♁	
evening rise	7402 Aug 19 14:36	11° ♁ 55'52			7405 Apr 24 20:42	0° ♁	
	7402 Sep 03 06:58	0° ♁		desc. node	7405 Apr 25 08:55	0° ♁ 37'06	
	7402 Sep 27 18:37	0° ♁			7405 May 19 09:36	0° ♁	
	7402 Oct 22 10:49	0° ♁			7405 Jun 12 17:51	0° ♁	
desc. node	7402 Nov 08 13:04	20° ♁ 36'28			7405 Jul 07 01:00	0° ♁	
	7402 Nov 16 09:05	0° ♁			7405 Jul 31 08:41	0° ♁	
	7402 Dec 11 15:15	0° ♁		morning set	7405 Aug 14 03:16	16° ♁ 58'34	
	7403 Jan 06 09:33	0° ♁		asc. node	7405 Aug 16 07:53	19° ♁ 40'40	
	7403 Feb 02 06:09	0° ♁			7405 Aug 24 16:57	0° ♁	
evening max el	7403 Feb 15 22:03	14° ♁ 15'39	46°55'57		7405 Sep 18 01:21	0° ♁	
asc. node	7403 Mar 01 13:07	27° ♁ 14'04					
	7403 Mar 04 17:25	0° ♁		superior conj	7405 Sep 20 07:03	2° ♁ 45'28	1°11'25
greatest brilliancy	7403 Mar 28 12:55	15° ♁ 19'22	-4.9m	minimum elong	7405 Sep 19 22:26	2° ♁ 18'54	1°11'12
retrograde	7403 Apr 07 09:57	17° ♁ 09'57		max. Earth dist.	7405 Sep 20 08:01	2° ♁ 48'28	1.73338 AU
evening set	7403 Apr 25 14:08	10° ♁ 51'15			7405 Oct 12 09:42	0° ♁	
inferior conj	7403 Apr 28 02:09	9° ♁ 19'03	9°09'40	evening rise	7405 Oct 26 13:55	17° ♁ 27'30	
minimum elong	7403 Apr 28 03:27	9° ♁ 17'02	9°09'36		7405 Nov 05 18:32	0° ♁	

	7405 Nov 30 04:32	0°♄		7408 May 31 03:56	0°♄	
desc. node	7405 Dec 06 00:45	7°♄10'02		7408 Jun 25 16:32	0°♄	
	7405 Dec 24 15:53	0°♄		7408 Jul 20 17:27	0°♄	
	7406 Jan 18 04:43	0°♄		7408 Aug 14 13:17	0°♄	
	7406 Feb 11 20:29	0°♄		7408 Sep 08 05:56	0°♄	
	7406 Mar 08 20:10	0°♄	asc. node	7408 Sep 12 19:59	5°♄35'21	
asc. node	7406 Mar 29 00:45	23°♄35'47		7408 Oct 02 19:21	0°♄	
	7406 Apr 03 15:44	0°♄	morning set	7408 Oct 21 18:43	23°♄17'45	
evening max el	7406 Apr 29 09:33	27°♄43'36 46°52'00		7408 Oct 27 05:27	0°♄	
	7406 May 01 16:09	0°♄		7408 Nov 20 12:49	0°♄	
greatest brilliancy	7406 Jun 08 04:33	28°♄20'20 -4.8m	max. Earth dist.	7408 Nov 25 12:05	6°♄08'43 1.72928 AU	
	7406 Jun 13 23:33	0°♄				
retrograde	7406 Jun 18 19:43	0°♄27'35	superior conj	7408 Nov 27 08:56	8°♄27'24 1°13'04	
	7406 Jun 23 13:29	30°♄	minimum elong	7408 Nov 27 17:35	8°♄54'10 1°12'56	
evening set	7406 Jul 04 00:12	25°♄55'43		7408 Dec 14 18:25	0°♄	
inferior conj	7406 Jul 09 22:11	22°♄23'38 2°11'21	desc. node	7409 Jan 02 12:40	23°♄15'55	
minimum elong	7406 Jul 10 03:03	22°♄16'04 2°09'46	evening rise	7409 Jan 04 09:46	25°♄35'54	
min. Earth dist.	7406 Jul 09 15:51	22°♄33'27 0.27811 AU		7409 Jan 07 22:50	0°♄	
morning rise	7406 Jul 16 06:22	18°♄38'17		7409 Feb 01 02:08	0°♄	
desc. node	7406 Jul 18 18:19	17°♄22'38		7409 Feb 25 04:41	0°♄	
direct	7406 Jul 30 21:38	14°♄26'45		7409 Mar 21 08:12	0°♄	
greatest brilliancy	7406 Aug 09 18:59	16°♄13'30 -4.8m		7409 Apr 14 16:16	0°♄	
	7406 Sep 01 11:56	0°♄	asc. node	7409 Apr 25 12:18	13°♄12'34	
morning max el	7406 Sep 17 19:39	14°♄28'11 45°47'15		7409 May 09 10:34	0°♄	
	7406 Oct 03 07:21	0°♄		7409 Jun 04 00:36	0°♄	
	7406 Oct 30 19:36	0°♄		7409 Jul 01 08:42	0°♄	
asc. node	7406 Nov 08 18:07	10°♄11'23	evening max el	7409 Jul 09 15:13	8°♄22'23 46°04'16	
	7406 Nov 25 18:17	0°♄		7409 Aug 03 20:08	0°♄	
	7406 Dec 20 20:25	0°♄	desc. node	7409 Aug 15 06:10	6°♄29'43	
	7407 Jan 14 10:06	0°♄	greatest brilliancy	7409 Aug 17 00:30	7°♄12'37 -4.8m	
	7407 Feb 07 16:10	0°♄	retrograde	7409 Aug 28 00:35	9°♄23'59	
desc. node	7407 Feb 28 10:38	25°♄53'45	evening set	7409 Sep 13 13:03	4°♄09'48	
	7407 Mar 03 17:23	0°♄	min. Earth dist.	7409 Sep 18 00:16	1°♄25'51 0.29015 AU	
morning set	7407 Mar 17 09:34	17°♄07'57	inferior conj	7409 Sep 18 12:47	1°♄06'09 -7°02'38	
	7407 Mar 27 15:30	0°♄	minimum elong	7409 Sep 18 03:22	1°♄20'58 7°01'02	
	7407 Apr 20 12:07	0°♄		7409 Sep 20 07:02	30°♄	
			morning rise	7409 Sep 22 17:56	28°♄30'27	
superior conj	7407 Apr 27 08:16	8°♄36'07 -1°27'32	direct	7409 Oct 10 01:42	22°♄52'16	
minimum elong	7407 Apr 27 09:13	8°♄39'06 1°27'36	greatest brilliancy	7409 Oct 20 00:41	24°♄40'06 -4.7m	
max. Earth dist.	7407 Apr 28 21:14	10°♄32'19 1.71272 AU		7409 Oct 30 22:02	0°♄	
	7407 May 14 09:10	0°♄	morning max el	7409 Nov 27 23:51	23°♄01'05 45°48'50	
evening rise	7407 Jun 06 18:39	29°♄16'29		7409 Dec 05 00:48	0°♄	
	7407 Jun 07 08:37	0°♄	asc. node	7409 Dec 06 05:58	1°♄14'15	
asc. node	7407 Jun 21 09:56	17°♄29'32		7410 Jan 01 18:48	0°♄	
	7407 Jul 01 12:01	0°♄		7410 Jan 27 13:29	0°♄	
	7407 Jul 25 20:30	0°♄		7410 Feb 21 10:38	0°♄	
	7407 Aug 19 11:35	0°♄		7410 Mar 17 20:26	0°♄	
	7407 Sep 13 12:10	0°♄	desc. node	7410 Mar 27 22:47	12°♄31'14	
	7407 Oct 09 03:34	0°♄		7410 Apr 10 23:49	0°♄	
desc. node	7407 Oct 11 03:17	2°♄17'02		7410 May 04 23:55	0°♄	
	7407 Nov 04 20:10	0°♄		7410 May 28 23:20	0°♄	
evening max el	7407 Dec 02 16:22	28°♄53'32 46°07'53	morning set	7410 Jun 01 10:17	4°♄19'14	
	7407 Dec 03 19:59	0°♄		7410 Jun 22 00:06	0°♄	
greatest brilliancy	7408 Jan 11 07:12	27°♄57'40 -4.8m				
retrograde	7408 Jan 21 02:06	29°♄43'57	superior conj	7410 Jul 10 10:16	22°♄54'54 -0°20'23	
asc. node	7408 Feb 01 03:30	27°♄16'08	minimum elong	7410 Jul 10 14:59	23°♄09'32 0°20'15	
evening set	7408 Feb 04 11:33	25°♄38'45	max. Earth dist.	7410 Jul 13 16:29	26°♄57'36 1.72478 AU	
inferior conj	7408 Feb 10 18:20	21°♄57'59 2°26'59		7410 Jul 16 03:17	0°♄	
minimum elong	7408 Feb 10 12:49	22°♄06'26 2°25'19	asc. node	7410 Jul 18 21:53	3°♄26'28	
min. Earth dist.	7408 Feb 10 21:51	21°♄52'36 0.27049 AU		7410 Aug 09 09:06	0°♄	
morning rise	7408 Feb 16 13:47	18°♄32'07	evening rise	7410 Aug 17 07:31	9°♄47'20	
direct	7408 Mar 02 12:46	14°♄07'13		7410 Sep 02 17:37	0°♄	
greatest brilliancy	7408 Mar 12 19:32	16°♄07'39 -4.9m		7410 Sep 27 05:28	0°♄	
	7408 Apr 03 16:32	0°♄		7410 Oct 21 22:03	0°♄	
morning max el	7408 Apr 22 03:00	17°♄09'31 46°59'27	desc. node	7410 Nov 07 14:58	20°♄07'16	
	7408 May 04 10:05	0°♄		7410 Nov 15 20:59	0°♄	
desc. node	7408 May 22 20:49	20°♄28'53		7410 Dec 11 04:13	0°♄	

	7411 Jan 06 00:24	0° \mathbb{H}			7413 Jul 30 19:35	0° \mathcal{O}	
	7411 Feb 02 01:05	0° Υ		morning set	7413 Aug 11 19:28	14° \mathcal{O} 47'13	
evening max el	7411 Feb 13 10:42	11° Υ 49'32	46°54'49	asc. node	7413 Aug 15 09:51	19° \mathcal{O} 13'24	
asc. node	7411 Feb 28 15:12	26° Υ 10'09			7413 Aug 24 03:43	0° \mathbb{M}	
	7411 Mar 05 04:23	0° \mathcal{B}			7413 Sep 17 12:02	0° \mathcal{A}	
greatest brilliancy	7411 Mar 26 02:48	12° \mathcal{B} 54'27	-4.9m				
retrograde	7411 Apr 04 22:25	14° \mathcal{B} 44'07		superior conj	7413 Sep 18 00:32	0° \mathcal{A} 38'30	1°09'34
evening set	7411 Apr 23 02:38	8° \mathcal{B} 26'37		minimum elong	7413 Sep 17 15:39	0° \mathcal{A} 11'09	1°09'18
inferior conj	7411 Apr 25 15:05	6° \mathcal{B} 53'50	9°10'39	max. Earth dist.	7413 Sep 18 04:20	0° \mathcal{A} 50'13	1.73333 AU
minimum elong	7411 Apr 25 15:22	6° \mathcal{B} 53'24	9°10'36		7413 Oct 11 20:26	0° \mathbb{M}	
min. Earth dist.	7411 Apr 25 10:29	7° \mathcal{B} 00'56	0.27133 AU	evening rise	7413 Oct 24 07:21	15° \mathbb{M} 20'18	
morning rise	7411 Apr 28 04:09	5° \mathcal{B} 20'10			7413 Nov 05 05:24	0° \mathcal{A}	
	7411 May 09 16:06	30° $\mathcal{R}\Upsilon$			7413 Nov 29 15:36	0° \mathcal{B}	
direct	7411 May 16 05:56	29° Υ 07'09		desc. node	7413 Dec 05 02:47	6° \mathcal{B} 42'06	
	7411 May 23 00:38	0° \mathcal{B}			7413 Dec 24 03:18	0° \approx	
greatest brilliancy	7411 May 25 17:38	0° \mathcal{B} 48'30	-4.9m		7414 Jan 17 16:39	0° \mathbb{H}	
desc. node	7411 Jun 20 08:38	17° \mathcal{B} 16'50			7414 Feb 11 09:12	0° Υ	
	7411 Jul 04 03:08	0° \mathbb{I}			7414 Mar 08 10:09	0° \mathcal{B}	
morning max el	7411 Jul 05 05:19	1° \mathbb{I} 04'26	46°29'42	asc. node	7414 Mar 28 02:35	22° \mathcal{B} 56'05	
	7411 Aug 01 15:44	0° \mathcal{E}			7414 Apr 03 08:14	0° \mathbb{I}	
	7411 Aug 28 04:07	0° \mathcal{O}		evening max el	7414 Apr 27 00:32	25° \mathbb{I} 24'27	46°53'13
	7411 Sep 22 20:24	0° \mathbb{M}			7414 May 01 15:50	0° \mathcal{E}	
asc. node	7411 Oct 11 07:59	21° \mathbb{M} 59'19		greatest brilliancy	7414 Jun 05 19:34	26° \mathcal{E} 01'29	-4.9m
	7411 Oct 18 00:15	0° \mathcal{A}		retrograde	7414 Jun 16 11:04	28° \mathcal{E} 08'58	
	7411 Nov 11 18:37	0° \mathbb{M}		evening set	7414 Jul 01 16:36	23° \mathcal{E} 34'31	
	7411 Dec 06 05:47	0° \mathcal{A}		inferior conj	7414 Jul 07 12:33	20° \mathcal{E} 05'21	2°33'02
	7411 Dec 30 11:53	0° \mathcal{B}		minimum elong	7414 Jul 07 18:11	19° \mathcal{E} 56'38	2°31'14
morning set	7411 Dec 30 22:48	0° \mathcal{B} 33'51		min. Earth dist.	7414 Jul 07 06:32	20° \mathcal{E} 14'40	0.27776 AU
	7412 Jan 23 14:32	0° \approx		morning rise	7414 Jul 13 20:16	16° \mathcal{E} 21'08	
desc. node	7412 Jan 31 00:39	9° \approx 15'53		desc. node	7414 Jul 17 20:22	14° \mathcal{E} 25'24	
max. Earth dist.	7412 Feb 04 23:16	15° \approx 26'29	1.71740 AU	direct	7414 Jul 28 12:02	12° \mathcal{E} 08'57	
				greatest brilliancy	7414 Aug 07 08:40	13° \mathcal{E} 55'46	-4.8m
superior conj	7412 Feb 08 00:19	19° \approx 14'50	-0°19'15		7414 Sep 01 20:40	0° \mathcal{O}	
minimum elong	7412 Feb 07 19:35	19° \approx 00'01	0°18'57	morning max el	7414 Sep 15 11:26	12° \mathcal{O} 16'18	45°48'03
	7412 Feb 16 14:32	0° \mathbb{H}			7414 Oct 03 01:22	0° \mathbb{M}	
	7412 Mar 11 12:38	0° Υ			7414 Oct 30 09:51	0° \mathcal{A}	
evening rise	7412 Mar 19 04:05	9° Υ 35'49		asc. node	7414 Nov 07 20:04	9° \mathcal{A} 37'55	
	7412 Apr 04 10:06	0° \mathcal{B}			7414 Nov 25 06:56	0° \mathbb{M}	
	7412 Apr 28 09:07	0° \mathbb{I}			7414 Dec 20 08:15	0° \mathcal{A}	
	7412 May 22 12:22	0° \mathcal{E}			7415 Jan 13 21:31	0° \mathcal{B}	
asc. node	7412 May 23 00:05	0° \mathcal{E} 36'11			7415 Feb 07 03:20	0° \approx	
	7412 Jun 15 22:50	0° \mathcal{O}		desc. node	7415 Feb 27 12:36	25° \approx 25'15	
	7412 Jul 10 20:27	0° \mathbb{M}			7415 Mar 03 04:27	0° \mathbb{H}	
	7412 Aug 05 12:31	0° \mathcal{A}		morning set	7415 Mar 14 20:21	14° \mathbb{H} 36'41	
	7412 Sep 01 16:38	0° \mathbb{M}			7415 Mar 27 02:31	0° Υ	
desc. node	7412 Sep 11 17:42	10° \mathbb{M} 20'40			7415 Apr 19 23:06	0° \mathcal{B}	
evening max el	7412 Sep 18 07:10	16° \mathbb{M} 46'48	45°38'43				
	7412 Oct 03 01:51	0° \mathcal{A}		superior conj	7415 Apr 24 19:22	6° \mathcal{B} 05'33	-1°27'36
greatest brilliancy	7412 Oct 27 11:28	14° \mathcal{A} 55'16	-4.7m	minimum elong	7415 Apr 24 19:14	6° \mathcal{B} 05'06	1°27'40
retrograde	7412 Nov 06 00:32	16° \mathcal{A} 34'48		max. Earth dist.	7415 Apr 26 07:06	7° \mathcal{B} 57'53	1.71255 AU
evening set	7412 Nov 23 09:26	10° \mathcal{A} 54'23			7415 May 13 20:09	0° \mathbb{I}	
inferior conj	7412 Nov 27 08:38	8° \mathcal{A} 28'43	-7°25'46	evening rise	7415 Jun 04 06:44	26° \mathbb{I} 50'04	
minimum elong	7412 Nov 27 17:39	8° \mathcal{A} 14'38	7°24'18		7415 Jun 06 19:38	0° \mathcal{E}	
min. Earth dist.	7412 Nov 28 04:12	7° \mathcal{A} 58'10	0.28633 AU	asc. node	7415 Jun 20 11:59	17° \mathcal{E} 01'35	
morning rise	7412 Dec 02 01:28	5° \mathcal{A} 36'06			7415 Jun 30 23:07	0° \mathcal{O}	
direct	7412 Dec 18 17:40	0° \mathcal{A} 13'36			7415 Jul 25 07:48	0° \mathbb{M}	
greatest brilliancy	7412 Dec 29 22:30	2° \mathcal{A} 31'37	-4.8m		7415 Aug 18 23:15	0° \mathcal{A}	
asc. node	7413 Jan 02 17:44	4° \mathcal{A} 13'00			7415 Sep 13 00:31	0° \mathbb{M}	
	7413 Feb 04 10:33	0° \mathcal{B}			7415 Oct 08 17:16	0° \mathcal{A}	
morning max el	7413 Feb 06 19:56	2° \mathcal{B} 22'20	46°31'11	desc. node	7415 Oct 10 05:11	1° \mathcal{A} 42'54	
	7413 Mar 04 14:10	0° \approx			7415 Nov 04 12:41	0° \mathcal{B}	
	7413 Mar 30 10:45	0° \mathbb{H}		evening max el	7415 Nov 30 07:17	26° \mathcal{B} 37'02	46°06'11
desc. node	7413 Apr 24 10:47	0° Υ 04'20			7415 Dec 03 20:28	0° \approx	
	7413 Apr 24 09:21	0° Υ		greatest brilliancy	7416 Jan 08 20:41	25° \approx 34'58	-4.8m
	7413 May 18 21:35	0° \mathcal{B}		retrograde	7416 Jan 18 14:59	27° \approx 20'14	
	7413 Jun 12 05:22	0° \mathbb{I}		asc. node	7416 Jan 31 05:31	24° \approx 10'28	
	7413 Jul 06 12:10	0° \mathcal{E}		evening set	7416 Feb 02 00:19	23° \approx 16'00	

inferior conj	7416 Feb 08 07:31	19° \approx 34'16	2°03'55			7418 Jul 15 14:08	0° Ω	
minimum elong	7416 Feb 08 02:50	19° \approx 41'27	2°02'29	asc. node		7418 Jul 17 23:51	2° Ω 58'58	
min. Earth dist.	7416 Feb 08 12:02	19° \approx 27'19	0.27072 AU			7418 Aug 08 19:56	0° \mathbb{M}	
morning rise	7416 Feb 14 05:01	16° \approx 05'16		evening rise		7418 Aug 15 00:35	7° \mathbb{M} 38'28	
direct	7416 Feb 29 02:37	11° \approx 43'13				7418 Sep 02 04:32	0° $\underline{\Omega}$	
greatest brilliancy	7416 Mar 10 09:59	13° \approx 43'59	-4.9m			7418 Sep 26 16:37	0° \mathbb{M}	
	7416 Apr 04 01:57	0° \mathbb{H}				7418 Oct 21 09:38	0° \mathbb{H}	
morning max el	7416 Apr 19 16:13	14° \mathbb{H} 44'36	46°59'26	desc. node		7418 Nov 06 17:00	19° \mathbb{H} 37'27	
	7416 May 04 04:52	0° \mathbb{Y}				7418 Nov 15 09:15	0° \mathbb{Z}	
desc. node	7416 May 21 22:54	19° \mathbb{Y} 49'42				7418 Dec 10 17:35	0° \approx	
	7416 May 30 18:55	0° \mathbb{B}				7419 Jan 05 15:45	0° \mathbb{H}	
	7416 Jun 25 05:47	0° \mathbb{II}				7419 Feb 01 20:55	0° \mathbb{Y}	
	7416 Jul 20 05:44	0° \mathbb{G}		evening max el		7419 Feb 10 22:55	9° \mathbb{Y} 21'36	46°53'38
	7416 Aug 14 00:58	0° Ω		asc. node		7419 Feb 27 17:05	25° \mathbb{Y} 03'08	
	7416 Sep 07 17:12	0° \mathbb{M}				7419 Mar 05 19:37	0° \mathbb{B}	
asc. node	7416 Sep 11 21:53	5° \mathbb{M} 06'59		greatest brilliancy		7419 Mar 23 16:16	10° \mathbb{B} 27'58	-4.9m
	7416 Oct 02 06:21	0° $\underline{\Omega}$		retrograde		7419 Apr 02 11:03	12° \mathbb{B} 17'26	
morning set	7416 Oct 19 11:59	21° $\underline{\Omega}$ 09'51		evening set		7419 Apr 20 14:27	6° \mathbb{B} 01'42	
	7416 Oct 26 16:17	0° \mathbb{M}		inferior conj		7419 Apr 23 03:57	4° \mathbb{B} 27'33	9°10'38
	7416 Nov 19 23:38	0° \mathbb{H}		minimum elong		7419 Apr 23 03:13	4° \mathbb{B} 28'39	9°10'34
max. Earth dist.	7416 Nov 23 04:04	3° \mathbb{H} 56'13	1.72960 AU	min. Earth dist.		7419 Apr 22 23:15	4° \mathbb{B} 34'47	0.27116 AU
				morning rise		7419 Apr 25 16:02	2° \mathbb{B} 55'29	
superior conj	7416 Nov 25 01:33	6° \mathbb{H} 16'51	1°14'46			7419 Apr 30 21:45	30° \mathbb{R} \mathbb{Y}	
minimum elong	7416 Nov 25 09:49	6° \mathbb{H} 42'26	1°14'40	direct		7419 May 13 18:04	26° \mathbb{Y} 40'45	
	7416 Dec 14 05:20	0° \mathbb{Z}		greatest brilliancy		7419 May 23 06:45	28° \mathbb{Y} 22'59	-4.9m
desc. node	7417 Jan 01 14:43	22° \mathbb{Z} 48'01				7419 May 27 06:55	0° \mathbb{B}	
evening rise	7417 Jan 02 00:14	23° \mathbb{Z} 17'34		desc. node		7419 Jun 19 10:37	16° \mathbb{B} 12'29	
	7417 Jan 07 09:56	0° \approx		morning max el		7419 Jul 02 18:26	28° \mathbb{B} 40'57	46°31'35
	7417 Jan 31 13:25	0° \mathbb{H}				7419 Jul 04 02:16	0° \mathbb{II}	
	7417 Feb 24 16:12	0° \mathbb{Y}				7419 Aug 01 08:00	0° \mathbb{G}	
	7417 Mar 20 20:01	0° \mathbb{B}				7419 Aug 27 17:47	0° Ω	
	7417 Apr 14 04:36	0° \mathbb{II}				7419 Sep 22 08:45	0° \mathbb{M}	
asc. node	7417 Apr 24 14:20	12° \mathbb{II} 40'24		asc. node		7419 Oct 10 09:58	21° \mathbb{M} 29'57	
	7417 May 08 23:48	0° \mathbb{G}				7419 Oct 17 11:52	0° $\underline{\Omega}$	
	7417 Jun 03 15:36	0° Ω				7419 Nov 11 05:50	0° \mathbb{M}	
	7417 Jul 01 04:20	0° \mathbb{M}				7419 Dec 05 16:47	0° \mathbb{H}	
evening max el	7417 Jul 07 06:27	6° \mathbb{M} 07'35	46°05'43	morning set		7419 Dec 28 14:06	28° \mathbb{H} 18'31	
	7417 Aug 04 20:09	0° $\underline{\Omega}$				7419 Dec 29 22:48	0° \mathbb{Z}	
desc. node	7417 Aug 14 08:07	4° $\underline{\Omega}$ 53'50				7420 Jan 23 01:26	0° \approx	
greatest brilliancy	7417 Aug 14 16:57	5° $\underline{\Omega}$ 02'21	-4.8m	desc. node		7420 Jan 30 02:33	8° \approx 47'40	
retrograde	7417 Aug 25 16:24	7° $\underline{\Omega}$ 13'33		max. Earth dist.		7420 Feb 02 14:08	13° \approx 08'45	1.71785 AU
evening set	7417 Sep 11 02:21	2° $\underline{\Omega}$ 04'05						
	7417 Sep 14 12:22	30° \mathbb{R} \mathbb{M}		superior conj		7420 Feb 05 12:42	16° \approx 49'16	-0°15'32
min. Earth dist.	7417 Sep 15 16:12	29° \mathbb{M} 16'22	0.28985 AU	minimum elong		7420 Feb 05 08:52	16° \approx 37'17	0°15'16
inferior conj	7417 Sep 16 05:04	28° \mathbb{M} 56'07	-6°50'59	behind sun begin		7420 Feb 05 00:25	16° \approx 10'52	
minimum elong	7417 Sep 15 19:26	29° \mathbb{M} 11'17	6°49'15	behind sun end		7420 Feb 05 17:19	17° \approx 03'43	
morning rise	7417 Sep 20 12:45	26° \mathbb{M} 16'29				7420 Feb 16 01:30	0° \mathbb{H}	
direct	7417 Oct 07 17:27	20° \mathbb{M} 42'50				7420 Mar 10 23:42	0° \mathbb{Y}	
greatest brilliancy	7417 Oct 17 16:15	22° \mathbb{M} 30'01	-4.7m	evening rise		7420 Mar 16 15:22	7° \mathbb{Y} 05'46	
	7417 Oct 31 22:23	0° $\underline{\Omega}$				7420 Apr 03 21:18	0° \mathbb{B}	
morning max el	7417 Nov 25 13:49	20° $\underline{\Omega}$ 45'04	45°47'51			7420 Apr 27 20:27	0° \mathbb{II}	
	7417 Dec 04 20:17	0° \mathbb{M}				7420 May 21 23:54	0° \mathbb{G}	
asc. node	7417 Dec 05 08:04	0° \mathbb{M} 30'17		asc. node		7420 May 22 02:09	0° \mathbb{G} 06'56	
	7418 Jan 01 09:40	0° \mathbb{H}				7420 Jun 15 10:44	0° Ω	
	7418 Jan 27 02:36	0° \mathbb{Z}				7420 Jul 10 09:04	0° \mathbb{M}	
	7418 Feb 20 22:55	0° \approx				7420 Aug 05 02:37	0° $\underline{\Omega}$	
	7418 Mar 17 08:14	0° \mathbb{H}				7420 Sep 01 10:21	0° \mathbb{M}	
desc. node	7418 Mar 27 00:38	12° \mathbb{H} 00'48		desc. node		7420 Sep 10 19:36	9° \mathbb{M} 35'07	
	7418 Apr 10 11:17	0° \mathbb{Y}		evening max el		7420 Sep 15 22:23	14° \mathbb{M} 34'55	45°38'47
	7418 May 04 11:09	0° \mathbb{B}				7420 Oct 03 10:49	0° \mathbb{H}	
	7418 May 28 10:24	0° \mathbb{II}		greatest brilliancy		7420 Oct 25 01:02	12° \mathbb{H} 42'14	-4.7m
morning set	7418 May 29 23:19	1° \mathbb{II} 55'24		retrograde		7420 Nov 03 16:19	14° \mathbb{H} 23'25	
	7418 Jun 21 11:02	0° \mathbb{G}		evening set		7420 Nov 21 03:30	8° \mathbb{H} 38'23	
				inferior conj		7420 Nov 25 00:17	6° \mathbb{H} 16'12	-7°35'45
superior conj	7418 Jul 08 01:05	20° \mathbb{G} 38'13	-0°23'49	minimum elong		7420 Nov 25 08:55	6° \mathbb{H} 02'45	7°34'25
minimum elong	7418 Jul 08 06:34	20° \mathbb{G} 55'13	0°23'39	min. Earth dist.		7420 Nov 25 18:52	5° \mathbb{H} 47'14	0.28689 AU
max. Earth dist.	7418 Jul 11 08:44	24° \mathbb{G} 45'27	1.72429 AU	morning rise		7420 Nov 29 14:00	3° \mathbb{H} 28'22	

	7420 Dec 06 12:03	30° \mathbb{M}		asc. node	7423 Jun 19 13:56	16° \mathbb{S} 33'45	
direct	7420 Dec 16 10:09	28° \mathbb{M} 00'31			7423 Jun 30 10:05	0° \mathbb{Q}	
	7420 Dec 26 18:56	0° \mathbb{X}			7423 Jul 24 18:57	0° \mathbb{M}	
greatest brilliancy	7420 Dec 27 14:03	0° \mathbb{X} 18'05	-4.8m		7423 Aug 18 10:46	0° \mathbb{A}	
asc. node	7421 Jan 01 19:41	2° \mathbb{X} 43'26			7423 Sep 12 12:43	0° \mathbb{M}	
	7421 Feb 04 08:54	0° \mathbb{S}			7423 Oct 08 06:48	0° \mathbb{X}	
morning max el	7421 Feb 04 12:11	0° \mathbb{S} 08'12	46°29'32	desc. node	7423 Oct 09 07:18	1° \mathbb{X} 10'01	
	7421 Mar 04 06:09	0° \approx			7423 Nov 04 05:07	0° \mathbb{S}	
	7421 Mar 30 00:29	0° \mathbb{X}		evening max el	7423 Nov 27 21:19	24° \mathbb{S} 19'36	46°04'27
desc. node	7421 Apr 23 12:52	29° \mathbb{X} 32'17			7423 Dec 03 21:43	0° \approx	
	7421 Apr 23 21:59	0° \mathbb{Y}		greatest brilliancy	7424 Jan 06 10:42	23° \approx 14'12	-4.8m
	7421 May 18 09:33	0° \mathbb{B}		retrograde	7424 Jan 16 03:28	24° \approx 57'59	
	7421 Jun 11 16:54	0° \mathbb{II}		asc. node	7424 Jan 30 07:25	21° \approx 02'06	
	7421 Jul 05 23:21	0° \mathbb{S}		evening set	7424 Jan 30 13:26	20° \approx 54'10	
	7421 Jul 30 06:30	0° \mathbb{Q}		inferior conj	7424 Feb 05 20:52	17° \approx 11'58	1°40'39
morning set	7421 Aug 09 11:54	12° \mathbb{Q} 36'33		minimum elong	7424 Feb 05 17:02	17° \approx 17'52	1°39'30
asc. node	7421 Aug 14 11:46	18° \mathbb{Q} 46'03		min. Earth dist.	7424 Feb 06 02:43	17° \approx 02'57	0.27104 AU
	7421 Aug 23 14:26	0° \mathbb{M}		morning rise	7424 Feb 11 20:12	13° \approx 39'57	
				direct	7424 Feb 26 16:07	9° \approx 20'17	
superior conj	7421 Sep 15 18:16	28° \mathbb{M} 32'28	1°07'37	greatest brilliancy	7424 Mar 08 01:17	11° \approx 22'08	-4.9m
minimum elong	7421 Sep 15 09:10	28° \mathbb{M} 04'27	1°07'21		7424 Apr 04 08:34	0° \mathbb{X}	
max. Earth dist.	7421 Sep 16 02:29	28° \mathbb{M} 57'48	1.73322 AU	morning max el	7424 Apr 17 04:49	12° \mathbb{X} 18'28	46°59'18
	7421 Sep 16 22:40	0° \mathbb{A}			7424 May 03 23:01	0° \mathbb{Y}	
	7421 Oct 11 07:05	0° \mathbb{M}		desc. node	7424 May 21 00:55	19° \mathbb{Y} 11'01	
evening rise	7421 Oct 22 01:07	13° \mathbb{M} 14'22			7424 May 30 09:32	0° \mathbb{B}	
	7421 Nov 04 16:11	0° \mathbb{X}			7424 Jun 24 18:45	0° \mathbb{II}	
	7421 Nov 29 02:39	0° \mathbb{S}			7424 Jul 19 17:45	0° \mathbb{S}	
desc. node	7421 Dec 04 04:49	6° \mathbb{S} 14'16			7424 Aug 13 12:21	0° \mathbb{Q}	
	7421 Dec 23 14:45	0° \approx			7424 Sep 07 04:11	0° \mathbb{M}	
	7422 Jan 17 04:39	0° \mathbb{X}		asc. node	7424 Sep 10 23:52	4° \mathbb{M} 39'44	
	7422 Feb 10 22:00	0° \mathbb{Y}			7424 Oct 01 17:02	0° \mathbb{A}	
	7422 Mar 08 00:14	0° \mathbb{B}		morning set	7424 Oct 17 05:23	19° \mathbb{A} 03'13	
asc. node	7422 Mar 27 04:38	22° \mathbb{B} 16'42			7424 Oct 26 02:49	0° \mathbb{M}	
	7422 Apr 03 01:00	0° \mathbb{II}			7424 Nov 19 10:08	0° \mathbb{X}	
evening max el	7422 Apr 24 15:53	23° \mathbb{II} 06'17	46°54'20	max. Earth dist.	7424 Nov 20 20:40	1° \mathbb{X} 46'42	1.72989 AU
	7422 May 01 16:35	0° \mathbb{S}					
greatest brilliancy	7422 Jun 03 10:49	23° \mathbb{S} 43'01	-4.9m	superior conj	7424 Nov 22 18:37	4° \mathbb{X} 08'44	1°16'21
retrograde	7422 Jun 14 02:22	25° \mathbb{S} 50'07		minimum elong	7424 Nov 23 02:27	4° \mathbb{X} 32'58	1°16'15
evening set	7422 Jun 29 09:11	21° \mathbb{S} 13'14			7424 Dec 13 15:55	0° \mathbb{S}	
inferior conj	7422 Jul 05 02:52	17° \mathbb{S} 46'58	2°54'39	evening rise	7424 Dec 30 15:15	21° \mathbb{S} 02'09	
minimum elong	7422 Jul 05 09:13	17° \mathbb{S} 37'07	2°52'38	desc. node	7424 Dec 31 16:37	22° \mathbb{S} 20'49	
min. Earth dist.	7422 Jul 04 21:07	17° \mathbb{S} 55'52	0.27740 AU		7425 Jan 06 20:39	0° \approx	
morning rise	7422 Jul 11 09:51	14° \mathbb{S} 04'03			7425 Jan 31 00:21	0° \mathbb{X}	
desc. node	7422 Jul 16 22:20	11° \mathbb{S} 32'46			7425 Feb 24 03:24	0° \mathbb{Y}	
direct	7422 Jul 26 02:36	9° \mathbb{S} 51'18			7425 Mar 20 07:36	0° \mathbb{B}	
greatest brilliancy	7422 Aug 04 21:59	11° \mathbb{S} 37'32	-4.8m		7425 Apr 13 16:45	0° \mathbb{II}	
	7422 Sep 02 02:48	0° \mathbb{Q}		asc. node	7425 Apr 23 16:22	12° \mathbb{II} 08'47	
morning max el	7422 Sep 13 02:45	10° \mathbb{Q} 03'37	45°49'02		7425 May 08 12:54	0° \mathbb{S}	
	7422 Oct 02 18:46	0° \mathbb{M}			7425 Jun 03 06:36	0° \mathbb{Q}	
	7422 Oct 29 23:44	0° \mathbb{A}			7425 Jul 01 00:19	0° \mathbb{M}	
asc. node	7422 Nov 06 22:10	9° \mathbb{A} 05'47		evening max el	7425 Jul 04 20:40	3° \mathbb{M} 50'53	46°07'21
	7422 Nov 24 19:17	0° \mathbb{M}			7425 Aug 06 05:29	0° \mathbb{A}	
	7422 Dec 19 19:51	0° \mathbb{X}		greatest brilliancy	7425 Aug 12 09:06	2° \mathbb{A} 52'08	-4.8m
	7423 Jan 13 08:44	0° \mathbb{S}		desc. node	7425 Aug 13 10:04	3° \mathbb{A} 15'00	
	7423 Feb 06 14:23	0° \approx		retrograde	7425 Aug 23 08:13	5° \mathbb{A} 03'40	
desc. node	7423 Feb 26 14:34	24° \approx 57'02		evening set	7425 Sep 08 15:31	29° \mathbb{M} 58'29	
	7423 Mar 02 15:25	0° \mathbb{X}			7425 Sep 08 14:28	30° \mathbb{R} \mathbb{M}	
morning set	7423 Mar 12 06:59	12° \mathbb{X} 05'21		inferior conj	7425 Sep 13 21:12	26° \mathbb{M} 46'30	-6°38'36
	7423 Mar 26 13:25	0° \mathbb{Y}		minimum elong	7425 Sep 13 11:24	27° \mathbb{M} 01'55	6°36'45
	7423 Apr 19 09:58	0° \mathbb{B}		min. Earth dist.	7425 Sep 13 08:06	27° \mathbb{M} 07'07	0.28953 AU
				morning rise	7425 Sep 18 07:30	24° \mathbb{M} 03'00	
superior conj	7423 Apr 22 06:14	3° \mathbb{B} 34'38	-1°27'30	direct	7425 Oct 05 08:41	18° \mathbb{M} 33'37	
minimum elong	7423 Apr 22 04:58	3° \mathbb{B} 30'40	1°27'33	greatest brilliancy	7425 Oct 15 08:06	20° \mathbb{M} 20'53	-4.7m
max. Earth dist.	7423 Apr 23 15:26	5° \mathbb{B} 19'03	1.71237 AU		7425 Nov 01 15:53	0° \mathbb{A}	
	7423 May 13 06:59	0° \mathbb{II}		morning max el	7425 Nov 23 04:10	18° \mathbb{A} 31'01	45°47'10
evening rise	7423 Jun 01 18:30	24° \mathbb{II} 23'04		asc. node	7425 Dec 04 09:55	29° \mathbb{A} 47'18	
	7423 Jun 06 06:30	0° \mathbb{S}			7425 Dec 04 14:49	0° \mathbb{M}	

	7425 Dec 31 23:57	0°♊		7428 Jun 14 22:23	0°♎
	7426 Jan 26 15:12	0°♋		7428 Jul 09 21:32	0°♏
	7426 Feb 20 10:43	0°♌		7428 Aug 04 16:42	0°♐
	7426 Mar 16 19:35	0°♍		7428 Sep 01 04:23	0°♑
desc. node	7426 Mar 26 02:44	11°♋32'23	desc. node	7428 Sep 09 21:45	8°♌49'43
	7426 Apr 09 22:22	0°♎	evening max el	7428 Sep 13 14:13	12°♌24'49 45°38'55
	7426 May 03 22:04	0°♏		7428 Oct 03 22:50	0°♊
morning set	7426 May 27 11:43	29°♋30'19	greatest brilliancy	7428 Oct 22 14:39	10°♊29'41 -4.7m
	7426 May 27 21:12	0°♐	retrograde	7428 Nov 01 07:58	12°♊12'02
	7426 Jun 20 21:43	0°♑	evening set	7428 Nov 18 21:25	6°♊22'51
			inferior conj	7428 Nov 22 15:48	4°♊03'55 -7°45'03
superior conj	7426 Jul 05 15:14	18°♑20'05 -0°27'17	minimum elong	7428 Nov 22 24:00	3°♊51'07 7°43'52
minimum elong	7426 Jul 05 21:27	18°♑39'24 0°27'05	min. Earth dist.	7428 Nov 23 09:11	3°♊36'48 0.28739 AU
max. Earth dist.	7426 Jul 08 22:09	22°♑25'12 1.72381 AU	morning rise	7428 Nov 27 02:21	1°♊20'44
	7426 Jul 15 00:44	0°♎		7428 Nov 29 11:32	30°♌♌
asc. node	7426 Jul 17 01:44	2°♎31'56	direct	7428 Dec 14 02:38	25°♌47'53
	7426 Aug 08 06:31	0°♏	greatest brilliancy	7428 Dec 25 04:44	28°♌03'58 -4.8m
evening rise	7426 Aug 12 17:04	5°♏28'40		7428 Dec 29 12:01	0°♊
	7426 Sep 01 15:12	0°♐	asc. node	7428 Dec 31 21:40	1°♊17'13
	7426 Sep 26 03:32	0°♌	morning max el	7429 Feb 02 04:13	27°♊54'11 46°27'56
	7426 Oct 20 20:58	0°♊		7429 Feb 04 06:11	0°♋
desc. node	7426 Nov 05 19:01	19°♊08'26		7429 Mar 03 21:39	0°♌
	7426 Nov 14 21:15	0°♋		7429 Mar 29 13:50	0°♍
	7426 Dec 10 06:42	0°♌	desc. node	7429 Apr 22 14:50	29°♍00'49
	7427 Jan 05 06:54	0°♍		7429 Apr 23 10:15	0°♎
	7427 Feb 01 16:48	0°♎		7429 May 17 21:11	0°♏
evening max el	7427 Feb 08 11:45	6°♎56'53 46°52'34		7429 Jun 11 04:05	0°♐
asc. node	7427 Feb 26 19:07	23°♎56'11		7429 Jul 05 10:14	0°♑
	7427 Mar 06 15:04	0°♏		7429 Jul 29 17:11	0°♎
greatest brilliancy	7427 Mar 21 04:59	8°♏02'20 -4.9m	morning set	7429 Aug 07 04:13	10°♎26'09
retrograde	7427 Mar 31 00:14	9°♏52'33	asc. node	7429 Aug 13 13:48	18°♎19'38
evening set	7427 Apr 18 01:40	3°♏39'11		7429 Aug 23 01:00	0°♏
inferior conj	7427 Apr 20 16:52	2°♏02'40 9°09'25			
minimum elong	7427 Apr 20 15:11	2°♏05'16 9°09'20	superior conj	7429 Sep 13 11:40	26°♏25'47 1°05'33
min. Earth dist.	7427 Apr 20 11:40	2°♏10'41 0.27105 AU	minimum elong	7429 Sep 13 02:26	25°♏57'20 1°05'16
morning rise	7427 Apr 23 04:44	0°♏31'10	max. Earth dist.	7429 Sep 13 23:48	27°♏03'08 1.73313 AU
	7427 Apr 24 01:35	30°♏♎		7429 Sep 16 09:11	0°♐
direct	7427 May 11 06:47	24°♎15'46		7429 Oct 10 17:38	0°♌
greatest brilliancy	7427 May 20 19:29	25°♎58'22 -4.9m	evening rise	7429 Oct 19 18:30	11°♌07'33
	7427 May 29 10:42	0°♏		7429 Nov 04 02:52	0°♊
desc. node	7427 Jun 18 12:34	15°♏10'34		7429 Nov 28 13:37	0°♋
morning max el	7427 Jun 30 08:36	26°♏20'51 46°33'10	desc. node	7429 Dec 03 06:42	5°♋46'15
	7427 Jul 04 00:09	0°♐		7429 Dec 23 02:07	0°♌
	7427 Jul 31 23:45	0°♑		7430 Jan 16 16:35	0°♍
	7427 Aug 27 07:06	0°♎		7430 Feb 10 10:45	0°♎
	7427 Sep 21 20:47	0°♏		7430 Mar 07 14:20	0°♏
asc. node	7427 Oct 09 12:02	21°♏01'38	asc. node	7430 Mar 26 06:42	21°♏37'32
	7427 Oct 16 23:11	0°♐		7430 Apr 02 17:52	0°♐
	7427 Nov 10 16:45	0°♌	evening max el	7430 Apr 22 07:15	20°♐48'47 46°55'30
	7427 Dec 05 03:30	0°♊		7430 May 01 18:18	0°♑
morning set	7427 Dec 26 05:30	26°♊04'29	greatest brilliancy	7430 Jun 01 02:44	21°♑26'31 -4.9m
	7427 Dec 29 09:26	0°♋	retrograde	7430 Jun 11 17:30	23°♑32'25
	7428 Jan 22 12:03	0°♌	evening set	7430 Jun 27 02:08	18°♑53'09
desc. node	7428 Jan 29 04:32	8°♌20'39	inferior conj	7430 Jul 02 17:24	15°♑29'55 3°15'45
max. Earth dist.	7428 Jan 31 04:48	10°♌51'22 1.71822 AU	minimum elong	7430 Jul 03 00:27	15°♑19'00 3°13'35
			min. Earth dist.	7430 Jul 02 12:01	15°♑38'15 0.27705 AU
superior conj	7428 Feb 03 01:23	14°♌25'38 -0°11'48	morning rise	7430 Jul 08 23:23	11°♑48'19
minimum elong	7428 Feb 02 22:28	14°♌16'32 0°11'35	desc. node	7430 Jul 16 00:18	8°♑46'21
behind sun begin	7428 Feb 02 04:44	13°♌21'05	direct	7430 Jul 23 17:13	7°♑35'01
behind sun end	7428 Feb 03 16:13	15°♌11'58	greatest brilliancy	7430 Aug 02 11:33	9°♑20'26 -4.8m
	7428 Feb 15 12:09	0°♍		7430 Sep 02 06:41	0°♎
	7428 Mar 10 10:25	0°♎	morning max el	7430 Sep 10 17:20	7°♎49'27 45°49'46
evening rise	7428 Mar 14 03:05	4°♎38'17		7430 Oct 02 11:43	0°♏
	7428 Apr 03 08:06	0°♏		7430 Oct 29 13:28	0°♐
	7428 Apr 27 07:25	0°♐	asc. node	7430 Nov 06 00:02	8°♐33'02
asc. node	7428 May 21 04:03	29°♐38'12		7430 Nov 24 07:35	0°♌
	7428 May 21 11:07	0°♑		7430 Dec 19 07:25	0°♊

	7431 Jan 12 19:55	0°♁		desc. node	7433 Aug 12 12:10	1°♁32'38	
	7431 Feb 06 01:24	0°♁		retrograde	7433 Aug 21 00:41	2°♁54'03	
desc. node	7431 Feb 25 16:35	24°♁29'09			7433 Sep 02 03:24	30°♁	
	7431 Mar 02 02:21	0°♁		evening set	7433 Sep 06 04:59	27°♁52'43	
morning set	7431 Mar 09 17:34	9°♁33'52		min. Earth dist.	7433 Sep 11 00:01	24°♁58'13	0.28920 AU
	7431 Mar 26 00:18	0°♁		inferior conj	7433 Sep 11 13:32	24°♁37'00	-6°25'42
	7431 Apr 18 20:48	0°♁		minimum elong	7433 Sep 11 03:37	24°♁52'34	6°23'44
				morning rise	7433 Sep 16 02:28	21°♁49'50	
superior conj	7431 Apr 19 17:10	1°♁04'01	-1°27'13	direct	7433 Oct 03 00:11	16°♁24'28	
minimum elong	7431 Apr 19 14:49	0°♁56'37	1°27'16	greatest brilliancy	7433 Oct 13 00:02	18°♁11'59	-4.7m
max. Earth dist.	7431 Apr 20 20:11	2°♁28'57	1.71217 AU		7433 Nov 02 04:57	0°♁	
	7431 May 12 17:48	0°♁		morning max el	7433 Nov 20 19:28	16°♁18'56	45°46'22
evening rise	7431 May 30 06:19	21°♁56'13		asc. node	7433 Dec 03 11:57	29°♁04'41	
	7431 Jun 05 17:19	0°♁			7433 Dec 04 09:07	0°♁	
asc. node	7431 Jun 18 15:52	16°♁06'05			7433 Dec 31 14:23	0°♁	
	7431 Jun 29 20:59	0°♁			7434 Jan 26 04:07	0°♁	
	7431 Jul 24 06:03	0°♁			7434 Feb 19 22:52	0°♁	
	7431 Aug 17 22:15	0°♁			7434 Mar 16 07:17	0°♁	
	7431 Sep 12 00:59	0°♁		desc. node	7434 Mar 25 04:44	11°♁02'35	
desc. node	7431 Oct 07 20:33	0°♁			7434 Apr 09 09:47	0°♁	
	7431 Oct 08 09:15	0°♁36'09			7434 May 03 09:18	0°♁	
	7431 Nov 03 22:05	0°♁		morning set	7434 May 24 23:56	27°♁03'39	
evening max el	7431 Nov 25 10:34	21°♁59'48	46°02'44		7434 May 27 08:17	0°♁	
	7431 Dec 04 00:42	0°♁			7434 Jun 20 08:42	0°♁	
greatest brilliancy	7432 Jan 04 00:56	20°♁53'02	-4.8m				
retrograde	7432 Jan 13 15:46	22°♁35'25		superior conj	7434 Jul 03 05:23	16°♁00'54	-0°30'42
evening set	7432 Jan 28 02:40	18°♁31'19		minimum elong	7434 Jul 03 12:19	16°♁22'30	0°30'29
asc. node	7432 Jan 29 09:28	17°♁49'17		max. Earth dist.	7434 Jul 06 11:11	20°♁02'41	1.72333 AU
inferior conj	7432 Feb 03 10:10	14°♁49'16	1°17'16		7434 Jul 14 11:39	0°♁	
minimum elong	7432 Feb 03 07:13	14°♁53'49	1°16'24	asc. node	7434 Jul 16 03:50	2°♁04'37	
min. Earth dist.	7432 Feb 03 17:35	14°♁37'50	0.27137 AU		7434 Aug 07 17:24	0°♁	
morning rise	7432 Feb 09 11:11	11°♁14'33		evening rise	7434 Aug 10 09:47	3°♁18'35	
direct	7432 Feb 24 05:16	6°♁56'40			7434 Sep 01 02:11	0°♁	
greatest brilliancy	7432 Mar 05 16:58	9°♁00'23	-4.9m		7434 Sep 25 14:44	0°♁	
	7432 Apr 04 13:17	0°♁			7434 Oct 20 08:35	0°♁	
morning max el	7432 Apr 14 17:28	9°♁52'02	46°59'13	desc. node	7434 Nov 04 20:57	18°♁38'14	
	7432 May 03 16:52	0°♁			7434 Nov 14 09:36	0°♁	
desc. node	7432 May 20 02:48	18°♁31'58			7434 Dec 09 20:16	0°♁	
	7432 May 30 00:04	0°♁			7435 Jan 04 22:44	0°♁	
	7432 Jun 24 07:43	0°♁			7435 Feb 01 13:57	0°♁	
	7432 Jul 19 05:47	0°♁		evening max el	7435 Feb 06 01:37	4°♁33'20	46°51'19
	7432 Aug 12 23:47	0°♁		asc. node	7435 Feb 25 21:10	22°♁45'35	
asc. node	7432 Sep 06 15:12	0°♁			7435 Mar 07 18:52	0°♁	
	7432 Sep 10 01:54	4°♁12'26		greatest brilliancy	7435 Mar 18 17:15	5°♁34'18	-4.9m
	7432 Oct 01 03:49	0°♁		retrograde	7435 Mar 28 13:50	7°♁25'29	
morning set	7432 Oct 14 22:53	16°♁56'30		evening set	7435 Apr 15 12:06	1°♁15'30	
	7432 Oct 25 13:30	0°♁			7435 Apr 17 13:46	30°♁	
max. Earth dist.	7432 Nov 18 14:27	29°♁40'15	1.73025 AU	inferior conj	7435 Apr 18 05:37	29°♁35'39	9°07'10
	7432 Nov 18 20:51	0°♁		minimum elong	7435 Apr 18 02:56	29°♁39'46	9°07'02
				min. Earth dist.	7435 Apr 17 23:39	29°♁44'49	0.27090 AU
superior conj	7432 Nov 20 11:40	1°♁59'59	1°17'48	morning rise	7435 Apr 20 17:49	28°♁03'49	
minimum elong	7432 Nov 20 19:02	2°♁22'44	1°17'44	direct	7435 May 08 19:44	21°♁48'55	
	7432 Dec 13 02:44	0°♁		greatest brilliancy	7435 May 18 07:30	23°♁31'12	-4.9m
evening rise	7432 Dec 28 06:07	18°♁45'38			7435 May 30 21:44	0°♁	
desc. node	7432 Dec 30 18:39	21°♁53'15		desc. node	7435 Jun 17 14:39	14°♁09'05	
	7433 Jan 06 07:38	0°♁		morning max el	7435 Jun 27 23:08	24°♁00'25	46°34'47
	7433 Jan 30 11:32	0°♁			7435 Jul 03 21:41	0°♁	
	7433 Feb 23 14:51	0°♁			7435 Jul 31 15:37	0°♁	
	7433 Mar 19 19:27	0°♁			7435 Aug 26 20:40	0°♁	
	7433 Apr 13 05:12	0°♁		asc. node	7435 Sep 21 09:07	0°♁	
asc. node	7433 Apr 22 18:15	11°♁35'56			7435 Oct 08 13:55	20°♁31'51	
	7433 May 08 02:21	0°♁			7435 Oct 16 10:48	0°♁	
	7433 Jun 02 22:03	0°♁			7435 Nov 10 03:57	0°♁	
	7433 Jun 30 21:11	0°♁			7435 Dec 04 14:30	0°♁	
evening max el	7433 Jul 02 11:13	1°♁34'24	46°09'11	morning set	7435 Dec 23 21:25	23°♁51'08	
	7433 Aug 08 08:23	0°♁			7435 Dec 28 20:22	0°♁	
greatest brilliancy	7433 Aug 10 00:59	0°♁41'25	-4.8m		7436 Jan 21 23:01	0°♁	

desc. node	7436 Jan 28 06:37	7° \approx 52'52		inferior conj	7438 Jun 30 07:38	13° \ominus 10'36	3°36'46
max. Earth dist.	7436 Jan 28 18:23	8° \approx 29'36	1.71866 AU	minimum elong	7438 Jun 30 15:19	12° \ominus 58'42	3°34'27
				min. Earth dist.	7438 Jun 30 03:02	13° \ominus 17'46	0.27671 AU
superior conj	7436 Jan 31 14:18	12° \approx 01'38	-0°08'04	morning rise	7438 Jul 06 12:19	9° \ominus 30'27	
minimum elong	7436 Jan 31 12:19	11° \approx 55'26	0°07'54	desc. node	7438 Jul 15 02:22	6° \ominus 02'16	
behind sun begin	7436 Jan 30 14:15	10° \approx 46'31		direct	7438 Jul 21 06:58	5° \ominus 16'22	
behind sun end	7436 Feb 01 10:23	13° \approx 04'21		greatest brilliancy	7438 Jul 31 01:19	7° \ominus 01'28	-4.8m
	7436 Feb 14 23:12	0° X			7438 Sep 02 09:29	0° Ω	
	7436 Mar 09 21:35	0° Υ		morning max el	7438 Sep 08 07:00	5° Ω 31'45	45°50'47
evening rise	7436 Mar 11 14:37	2° Υ 08'43			7438 Oct 02 04:39	0° M	
	7436 Apr 02 19:24	0° B			7438 Oct 29 03:19	0° $\underline{\Omega}$	
	7436 Apr 26 18:52	0° Π		asc. node	7438 Nov 05 02:01	8° $\underline{\Omega}$ 00'09	
asc. node	7436 May 20 06:02	29° Π 08'15			7438 Nov 23 20:01	0° M	
	7436 May 20 22:48	0° \ominus			7438 Dec 18 19:08	0° X	
	7436 Jun 14 10:32	0° Ω			7439 Jan 12 07:15	0° Z	
	7436 Jul 09 10:30	0° M			7439 Feb 05 12:32	0° \approx	
	7436 Aug 04 07:22	0° $\underline{\Omega}$		desc. node	7439 Feb 24 18:33	24° \approx 00'48	
	7436 Aug 31 23:16	0° M			7439 Mar 01 13:22	0° X	
desc. node	7436 Sep 08 23:42	8° M 02'08		morning set	7439 Mar 07 04:40	7° X 03'46	
evening max el	7436 Sep 11 06:25	10° M 14'36	45°39'08		7439 Mar 25 11:17	0° Υ	
	7436 Oct 04 15:24	0° X					
greatest brilliancy	7436 Oct 20 05:10	8° X 17'48	-4.7m	superior conj	7439 Apr 17 04:22	28° Υ 33'53	-1°26'45
retrograde	7436 Oct 29 23:31	10° X 00'37		minimum elong	7439 Apr 17 00:57	28° Υ 23'09	1°26'47
evening set	7436 Nov 16 15:29	4° X 07'51		max. Earth dist.	7439 Apr 17 23:39	29° Υ 34'30	1.71208 AU
inferior conj	7436 Nov 20 07:39	1° X 51'54	-7°53'30		7439 Apr 18 07:46	0° B	
minimum elong	7436 Nov 20 15:20	1° X 39'52	7°52'28		7439 May 12 04:46	0° Π	
min. Earth dist.	7436 Nov 20 23:55	1° X 26'26	0.28783 AU	evening rise	7439 May 27 17:56	19° Π 28'06	
	7436 Nov 23 07:47	30° K M			7439 Jun 05 04:22	0° \ominus	
morning rise	7436 Nov 24 15:00	29° M 13'09		asc. node	7439 Jun 17 17:56	15° \ominus 38'09	
direct	7436 Dec 11 19:15	23° M 35'42			7439 Jun 29 08:08	0° Ω	
greatest brilliancy	7436 Dec 22 19:26	25° M 49'48	-4.8m		7439 Jul 23 17:24	0° M	
asc. node	7436 Dec 30 23:42	29° M 53'39			7439 Aug 17 10:00	0° $\underline{\Omega}$	
	7436 Dec 31 03:57	0° X			7439 Sep 11 13:31	0° M	
morning max el	7437 Jan 30 19:37	25° X 38'06	46°26'09	desc. node	7439 Oct 07 11:11	0° X 01'38	
	7437 Feb 04 02:57	0° Z			7439 Oct 07 10:37	0° X	
	7437 Mar 03 13:12	0° \approx			7439 Nov 03 15:31	0° Z	
	7437 Mar 29 03:27	0° X		evening max el	7439 Nov 22 23:39	19° Z 39'42	46°01'13
desc. node	7437 Apr 21 16:44	28° X 27'59			7439 Dec 04 05:27	0° \approx	
	7437 Apr 22 22:54	0° Υ		greatest brilliancy	7440 Jan 01 15:04	18° \approx 32'15	-4.8m
	7437 May 17 09:14	0° B		retrograde	7440 Jan 11 04:38	20° \approx 13'54	
	7437 Jun 10 15:42	0° Π		evening set	7440 Jan 25 16:20	16° \approx 08'54	
	7437 Jul 04 21:31	0° \ominus		asc. node	7440 Jan 28 11:29	14° \approx 34'48	
	7437 Jul 29 04:13	0° Ω		inferior conj	7440 Jan 31 23:43	12° \approx 27'23	0°53'59
morning set	7437 Aug 04 20:20	8° Ω 13'58		minimum elong	7440 Jan 31 21:38	12° \approx 30'34	0°53'23
asc. node	7437 Aug 12 15:46	17° Ω 51'56		min. Earth dist.	7440 Feb 01 08:35	12° \approx 13'44	0.27172 AU
	7437 Aug 22 11:54	0° M		morning rise	7440 Feb 07 02:15	8° \approx 50'31	
				direct	7440 Feb 21 18:38	4° \approx 33'49	
superior conj	7437 Sep 11 05:04	24° M 18'06	1°03'24	greatest brilliancy	7440 Mar 03 08:53	6° \approx 39'44	-4.9m
minimum elong	7437 Sep 10 19:45	23° M 49'23	1°03'05		7440 Apr 04 16:03	0° X	
max. Earth dist.	7437 Sep 11 20:28	25° M 05'35	1.73297 AU	morning max el	7440 Apr 12 07:12	7° X 28'51	46°59'08
	7437 Sep 15 20:01	0° $\underline{\Omega}$			7440 May 03 10:09	0° Υ	
	7437 Oct 10 04:29	0° M		desc. node	7440 May 19 04:54	17° Υ 54'14	
evening rise	7437 Oct 17 12:06	9° M 00'27			7440 May 29 14:21	0° B	
	7437 Nov 03 13:51	0° X			7440 Jun 23 20:34	0° Π	
	7437 Nov 28 00:51	0° Z			7440 Jul 18 17:49	0° \ominus	
desc. node	7437 Dec 02 08:46	5° Z 18'01			7440 Aug 12 11:16	0° Ω	
	7437 Dec 22 13:44	0° \approx			7440 Sep 06 02:17	0° M	
	7438 Jan 16 04:46	0° X		asc. node	7440 Sep 09 03:48	3° M 44'29	
	7438 Feb 09 23:47	0° Υ			7440 Sep 30 14:38	0° $\underline{\Omega}$	
	7438 Mar 07 04:50	0° B		morning set	7440 Oct 12 16:07	14° $\underline{\Omega}$ 48'50	
asc. node	7438 Mar 25 08:33	20° B 56'18			7440 Oct 25 00:11	0° M	
	7438 Apr 02 11:28	0° Π		max. Earth dist.	7440 Nov 16 10:12	27° M 39'56	1.73054 AU
evening max el	7438 Apr 19 21:41	18° Π 27'28	46°56'16				
	7438 May 01 22:11	0° \ominus		superior conj	7440 Nov 18 04:34	29° M 50'54	1°19'08
greatest brilliancy	7438 May 29 19:03	19° \ominus 08'15	-4.9m	minimum elong	7440 Nov 18 11:26	0° X 12'07	1°19'06
retrograde	7438 Jun 09 07:50	21° \ominus 12'13			7440 Nov 18 07:31	0° X	
evening set	7438 Jun 24 18:54	16° \ominus 30'26			7440 Dec 12 13:30	0° Z	

evening rise	7440 Dec 25 21:06	16° ♁ 29'47			7443 May 31 22:08	0° ♁	
desc. node	7440 Dec 29 20:40	21° ♁ 25'52		desc. node	7443 Jun 16 16:37	13° ♁ 09'54	
	7441 Jan 05 18:33	0° ♁		morning max el	7443 Jun 25 13:22	21° ♁ 40'22	46°36'24
	7441 Jan 29 22:40	0° ♁			7443 Jul 03 18:00	0° ♁	
	7441 Feb 23 02:14	0° ♁			7443 Jul 31 06:47	0° ♁	
	7441 Mar 19 07:12	0° ♁			7443 Aug 26 09:40	0° ♁	
	7441 Apr 12 17:31	0° ♁			7443 Sep 20 21:00	0° ♁	
asc. node	7441 Apr 21 20:18	11° ♁ 04'02		asc. node	7443 Oct 07 15:54	20° ♁ 03'30	
	7441 May 07 15:41	0° ♁			7443 Oct 15 22:03	0° ♁	
	7441 Jun 02 13:31	0° ♁			7443 Nov 09 14:51	0° ♁	
evening max el	7441 Jun 30 02:26	29° ♁ 19'56	46°10'47		7443 Dec 04 01:13	0° ♁	
	7441 Jun 30 18:42	0° ♁		morning set	7443 Dec 21 13:05	21° ♁ 38'01	
greatest brilliancy	7441 Aug 07 16:07	28° ♁ 29'26	-4.8m		7443 Dec 28 07:00	0° ♁	
desc. node	7441 Aug 11 14:06	29° ♁ 45'52			7444 Jan 21 09:38	0° ♁	
	7441 Aug 12 13:03	0° ♁		max. Earth dist.	7444 Jan 26 05:46	6° ♁ 02'05	1.71907 AU
retrograde	7441 Aug 18 17:20	0° ♁ 43'40		desc. node	7444 Jan 27 08:30	7° ♁ 25'29	
	7441 Aug 24 17:32	30° ♁					
evening set	7441 Sep 03 18:14	25° ♁ 46'02		superior conj	7444 Jan 29 03:06	9° ♁ 38'27	-0°04'20
min. Earth dist.	7441 Sep 08 15:28	22° ♁ 48'44	0.28889 AU	minimum elong	7444 Jan 29 02:02	9° ♁ 35'09	0°04'12
inferior conj	7441 Sep 09 05:34	22° ♁ 26'39	-6°12'04	behind sun begin	7444 Jan 28 01:49	8° ♁ 19'32	
minimum elong	7441 Sep 08 19:36	22° ♁ 42'16	6°10'01	behind sun end	7444 Jan 30 02:16	10° ♁ 50'47	
morning rise	7441 Sep 13 21:13	19° ♁ 35'53			7444 Feb 14 09:54	0° ♁	
direct	7441 Sep 30 15:46	14° ♁ 14'32		evening rise	7444 Mar 09 02:02	29° ♁ 40'05	
greatest brilliancy	7441 Oct 10 15:24	16° ♁ 02'06	-4.7m		7444 Mar 09 08:23	0° ♁	
	7441 Nov 02 14:41	0° ♁			7444 Apr 02 06:20	0° ♁	
morning max el	7441 Nov 18 11:29	14° ♁ 08'48	45°45'41		7444 Apr 26 05:57	0° ♁	
asc. node	7441 Dec 02 14:02	28° ♁ 22'57		asc. node	7444 May 19 08:06	28° ♁ 39'39	
	7441 Dec 04 02:53	0° ♁			7444 May 20 10:08	0° ♁	
	7441 Dec 31 04:30	0° ♁			7444 Jun 13 22:18	0° ♁	
	7442 Jan 25 16:44	0° ♁			7444 Jul 08 23:07	0° ♁	
	7442 Feb 19 10:43	0° ♁			7444 Aug 03 21:43	0° ♁	
	7442 Mar 15 18:42	0° ♁			7444 Aug 31 18:10	0° ♁	
desc. node	7442 Mar 24 06:35	10° ♁ 33'05		desc. node	7444 Sep 08 01:38	7° ♁ 15'02	
	7442 Apr 08 20:56	0° ♁		evening max el	7444 Sep 08 21:53	8° ♁ 03'51	45°39'13
	7442 May 02 20:15	0° ♁			7444 Oct 05 13:06	0° ♁	
morning set	7442 May 22 12:24	24° ♁ 38'38		greatest brilliancy	7444 Oct 17 19:59	6° ♁ 07'13	-4.7m
	7442 May 26 19:05	0° ♁		retrograde	7444 Oct 27 14:21	7° ♁ 50'04	
	7442 Jun 19 19:22	0° ♁		evening set	7444 Nov 14 09:18	1° ♁ 53'57	
					7444 Nov 17 11:12	30° ♁	
superior conj	7442 Jun 30 19:40	13° ♁ 43'03	-0°34'04	inferior conj	7444 Nov 17 23:25	29° ♁ 40'50	-8°01'16
minimum elong	7442 Jul 01 03:18	14° ♁ 06'48	0°33'48	minimum elong	7444 Nov 18 06:33	29° ♁ 29'39	8°00'24
max. Earth dist.	7442 Jul 04 02:17	17° ♁ 47'31	1.72289 AU	min. Earth dist.	7444 Nov 18 14:55	29° ♁ 16'31	0.28829 AU
	7442 Jul 13 22:14	0° ♁		morning rise	7444 Nov 22 03:37	27° ♁ 06'23	
asc. node	7442 Jul 15 05:46	1° ♁ 37'48		direct	7444 Dec 09 11:28	21° ♁ 24'19	
	7442 Aug 07 04:01	0° ♁		greatest brilliancy	7444 Dec 20 10:40	23° ♁ 36'58	-4.8m
evening rise	7442 Aug 08 02:33	1° ♁ 09'32		asc. node	7444 Dec 30 01:39	28° ♁ 33'12	
	7442 Aug 31 12:55	0° ♁			7445 Jan 01 07:11	0° ♁	
	7442 Sep 25 01:44	0° ♁		morning max el	7445 Jan 28 10:04	23° ♁ 20'30	46°24'27
	7442 Oct 19 20:02	0° ♁			7445 Feb 03 22:45	0° ♁	
desc. node	7442 Nov 03 22:59	18° ♁ 08'57			7445 Mar 03 04:13	0° ♁	
	7442 Nov 13 21:46	0° ♁			7445 Mar 28 16:36	0° ♁	
	7442 Dec 09 09:42	0° ♁		desc. node	7445 Apr 20 18:50	27° ♁ 57'05	
	7443 Jan 04 14:30	0° ♁			7445 Apr 22 11:04	0° ♁	
	7443 Feb 01 11:31	0° ♁			7445 May 16 20:49	0° ♁	
evening max el	7443 Feb 03 16:15	2° ♁ 12'50	46°50'03		7445 Jun 10 02:52	0° ♁	
asc. node	7443 Feb 24 23:04	21° ♁ 33'34			7445 Jul 04 08:23	0° ♁	
	7443 Mar 09 09:48	0° ♁			7445 Jul 28 14:53	0° ♁	
greatest brilliancy	7443 Mar 16 05:27	3° ♁ 07'20	-4.9m	morning set	7445 Aug 02 12:31	6° ♁ 03'07	
retrograde	7443 Mar 26 03:21	4° ♁ 59'08		asc. node	7445 Aug 11 17:41	17° ♁ 25'20	
	7443 Apr 11 00:42	30° ♁			7445 Aug 21 22:24	0° ♁	
evening set	7443 Apr 12 22:05	28° ♁ 53'32					
inferior conj	7443 Apr 15 18:19	27° ♁ 09'32	9°03'59	superior conj	7445 Sep 08 22:37	22° ♁ 12'11	1°01'10
minimum elong	7443 Apr 15 14:41	27° ♁ 15'07	9°03'45	minimum elong	7445 Sep 08 13:15	21° ♁ 43'20	1°00'49
min. Earth dist.	7443 Apr 15 11:33	27° ♁ 19'55	0.27072 AU	max. Earth dist.	7445 Sep 09 16:02	23° ♁ 05'50	1.73279 AU
morning rise	7443 Apr 18 07:21	25° ♁ 36'29			7445 Sep 15 06:27	0° ♁	
direct	7443 May 06 08:56	19° ♁ 23'11			7445 Oct 09 14:56	0° ♁	
greatest brilliancy	7443 May 15 19:17	21° ♁ 04'38	-4.9m	evening rise	7445 Oct 15 05:51	6° ♁ 55'06	

	7445 Nov 03 00:28	0°♊			7448 Jun 23 09:15	0°♊		
	7445 Nov 27 11:46	0°♋			7448 Jul 18 05:39	0°♌		
desc. node	7445 Dec 01 10:47	4°♋50'39			7448 Aug 11 22:33	0°♍		
	7445 Dec 22 01:06	0°♌			7448 Sep 05 13:10	0°♎		
	7446 Jan 15 16:44	0°♍		asc. node	7448 Sep 08 05:49	3°♎17'26		
	7446 Feb 09 12:38	0°♎			7448 Sep 30 01:17	0°♏		
	7446 Mar 06 19:11	0°♏		morning set	7448 Oct 10 09:28	12°♏42'02		
asc. node	7446 Mar 24 10:38	20°♏16'14			7448 Oct 24 10:44	0°♐		
	7446 Apr 02 05:07	0°♐		max. Earth dist.	7448 Nov 14 06:52	25°♐42'56	1.73080 AU	
evening max el	7446 Apr 17 11:01	16°♐04'17 46°57'09						
	7446 May 02 03:29	0°♑		superior conj	7448 Nov 15 21:45	27°♐43'03	1°20'22	
greatest brilliancy	7446 May 27 11:31	16°♑51'04 -4.9m		minimum elong	7448 Nov 16 04:04	28°♐02'36	1°20'20	
retrograde	7446 Jun 06 21:50	18°♑53'07			7448 Nov 17 18:04	0°♊		
evening set	7446 Jun 22 11:44	14°♑08'17			7448 Dec 12 00:08	0°♋		
inferior conj	7446 Jun 27 21:52	10°♑52'18 3°57'33		evening rise	7448 Dec 23 12:24	14°♋15'25		
minimum elong	7446 Jun 28 06:08	10°♑39'27 3°55'06		desc. node	7448 Dec 28 22:34	20°♋58'31		
min. Earth dist.	7446 Jun 27 18:16	10°♑57'53 0.27639 AU			7449 Jan 05 05:21	0°♌		
morning rise	7446 Jul 04 01:00	7°♑13'53			7449 Jan 29 09:41	0°♍		
desc. node	7446 Jul 14 04:19	3°♑24'23			7449 Feb 22 13:35	0°♎		
direct	7446 Jul 18 20:17	2°♑58'23			7449 Mar 18 19:00	0°♏		
greatest brilliancy	7446 Jul 28 15:37	4°♑43'59 -4.8m			7449 Apr 12 05:58	0°♐		
	7446 Sep 02 10:24	0°♑		asc. node	7449 Apr 20 22:18	10°♐31'35		
morning max el	7446 Sep 05 20:41	3°♑14'57 45°51'59			7449 May 07 05:13	0°♑		
	7446 Oct 01 20:50	0°♒			7449 Jun 02 05:18	0°♒		
	7446 Oct 28 16:38	0°♓		evening max el	7449 Jun 27 18:26	27°♒07'14 46°12'41		
asc. node	7446 Nov 04 04:06	7°♓28'48			7449 Jun 30 17:07	0°♓		
	7446 Nov 23 08:01	0°♔		greatest brilliancy	7449 Aug 05 07:11	26°♓17'26 -4.8m		
	7446 Dec 18 06:28	0°♕		desc. node	7449 Aug 10 16:03	27°♓55'11		
	7447 Jan 11 18:17	0°♖		retrograde	7449 Aug 16 10:11	28°♓33'10		
	7447 Feb 04 23:26	0°♗		evening set	7449 Sep 01 07:40	23°♓39'13		
desc. node	7447 Feb 23 20:30	23°♗33'01		inferior conj	7449 Sep 06 21:34	20°♓16'13 -5°57'53		
	7447 Mar 01 00:12	0°♘		minimum elong	7449 Sep 06 11:38	20°♓31'46 5°55'45		
morning set	7447 Mar 04 15:24	4°♘33'03		min. Earth dist.	7449 Sep 06 06:41	20°♓39'31 0.28851 AU		
	7447 Mar 24 22:04	0°♙		morning rise	7449 Sep 11 15:56	17°♓21'51		
				direct	7449 Sep 28 07:45	12°♓04'40		
superior conj	7447 Apr 14 15:07	26°♙02'56 -1°26'06		greatest brilliancy	7449 Oct 08 06:10	13°♓51'35 -4.7m		
minimum elong	7447 Apr 14 10:38	25°♙48'51 1°26'06			7449 Nov 02 21:40	0°♔		
max. Earth dist.	7447 Apr 15 01:56	26°♙36'58 1.71199 AU		morning max el	7449 Nov 16 03:56	11°♔59'56 45°45'01		
	7447 Apr 17 18:30	0°♚		asc. node	7449 Dec 01 15:54	27°♔41'15		
	7447 May 11 15:31	0°♛			7449 Dec 03 20:13	0°♕		
evening rise	7447 May 25 05:13	16°♛59'45			7449 Dec 30 18:26	0°♖		
	7447 Jun 04 15:09	0°♜			7450 Jan 25 05:15	0°♗		
asc. node	7447 Jun 16 19:52	15°♜10'34			7450 Feb 18 22:31	0°♘		
	7447 Jun 28 19:02	0°♝			7450 Mar 15 06:06	0°♙		
	7447 Jul 23 04:31	0°♞		desc. node	7450 Mar 23 08:42	10°♙04'25		
	7447 Aug 16 21:32	0°♟			7450 Apr 08 08:07	0°♚		
	7447 Sep 11 01:50	0°♠			7450 May 02 07:18	0°♛		
desc. node	7447 Oct 06 13:18	29°♠28'11		morning set	7450 May 20 00:27	22°♠11'46		
	7447 Oct 07 00:31	0°♊			7450 May 26 06:01	0°♋		
	7447 Nov 03 09:01	0°♌			7450 Jun 19 06:12	0°♍		
evening max el	7447 Nov 20 13:00	17°♌21'23 45°59'45						
	7447 Dec 04 11:52	0°♎		superior conj	7450 Jun 28 09:22	11°♎22'40 -0°37'25		
greatest brilliancy	7447 Dec 30 04:23	16°♎11'26 -4.8m		minimum elong	7450 Jun 28 17:38	11°♎48'26 0°37'08		
retrograde	7448 Jan 08 17:50	17°♎53'06		max. Earth dist.	7450 Jul 01 17:56	15°♎33'21 1.72241 AU		
evening set	7448 Jan 23 06:08	13°♎46'39			7450 Jul 13 08:59	0°♏		
asc. node	7448 Jan 27 13:23	11°♎18'46		asc. node	7450 Jul 14 07:41	1°♏10'23		
inferior conj	7448 Jan 29 13:10	10°♎05'50 0°30'34		evening rise	7450 Aug 05 18:50	28°♏58'28		
minimum elong	7448 Jan 29 11:59	10°♎07'39 0°30'16			7450 Aug 06 14:46	0°♐		
min. Earth dist.	7448 Jan 29 23:12	9°♎50'25 0.27216 AU			7450 Aug 30 23:47	0°♑		
morning rise	7448 Feb 04 17:06	6°♎27'14			7450 Sep 24 12:51	0°♒		
direct	7448 Feb 19 08:30	2°♎11'09			7450 Oct 19 07:37	0°♓		
greatest brilliancy	7448 Mar 01 00:31	4°♎19'05 -4.9m		desc. node	7450 Nov 03 00:58	17°♓39'02		
	7448 Apr 04 17:23	0°♏			7450 Nov 13 10:08	0°♔		
morning max el	7448 Apr 09 21:53	5°♏08'10 46°58'52			7450 Dec 08 23:22	0°♕		
	7448 May 03 03:06	0°♐			7451 Jan 04 06:39	0°♖		
desc. node	7448 May 18 06:53	17°♐16'29			7451 Feb 01 10:00	0°♗		
	7448 May 29 04:27	0°♑		evening max el	7451 Feb 01 07:04	29°♑52'41 46°48'42		

asc. node	7451 Feb 24 01:07	20°♈19'42			7453 Jul 03 19:31	0°♊	
	7451 Mar 11 23:38	0°♋			7453 Jul 28 01:49	0°♋	
greatest brilliancy	7451 Mar 13 18:02	0°♋40'57	-4.9m	morning set	7453 Jul 31 04:38	3°♌50'59	
retrograde	7451 Mar 23 16:30	2°♋32'46		asc. node	7453 Aug 10 19:44	16°♌58'10	
	7451 Apr 03 20:07	30°♋♈			7453 Aug 21 09:13	0°♎	
evening set	7451 Apr 10 07:45	26°♈32'28					
inferior conj	7451 Apr 13 07:08	24°♈43'34	8°59'45	superior conj	7453 Sep 06 16:01	20°♎04'41	0°58'50
minimum elong	7451 Apr 13 02:36	24°♈50'33	8°59'24	minimum elong	7453 Sep 06 06:39	19°♎35'51	0°58'28
min. Earth dist.	7451 Apr 12 23:49	24°♈54'50	0.27056 AU	max. Earth dist.	7453 Sep 07 09:43	20°♎59'15	1.73263 AU
morning rise	7451 Apr 15 21:32	23°♈08'22			7453 Sep 14 17:13	0°♏	
direct	7451 May 03 22:13	16°♈57'36			7453 Oct 09 01:45	0°♐	
greatest brilliancy	7451 May 13 07:34	18°♈38'14	-4.9m	evening rise	7453 Oct 12 23:27	4°♐48'14	
	7451 Jun 01 16:20	0°♉			7453 Nov 02 11:26	0°♑	
desc. node	7451 Jun 15 18:34	12°♉11'22			7453 Nov 26 23:01	0°♒	
morning max el	7451 Jun 23 02:53	19°♉17'40	46°37'47	desc. node	7453 Nov 30 12:39	4°♒21'45	
	7451 Jul 03 13:58	0°♊			7453 Dec 21 12:49	0°♓	
	7451 Jul 30 22:04	0°♋			7454 Jan 15 05:05	0°♈	
	7451 Aug 25 22:54	0°♌			7454 Feb 09 01:55	0°♉	
	7451 Sep 20 09:07	0°♍			7454 Mar 06 10:05	0°♊	
asc. node	7451 Oct 06 17:58	19°♍34'45		asc. node	7454 Mar 23 12:40	19°♋34'35	
	7451 Oct 15 09:30	0°♎			7454 Apr 01 23:34	0°♌	
	7451 Nov 09 01:56	0°♏		evening max el	7454 Apr 15 00:06	13°♌39'33	46°58'04
	7451 Dec 03 12:06	0°♑			7454 May 02 11:26	0°♍	
morning set	7451 Dec 19 04:54	19°♑24'45		greatest brilliancy	7454 May 25 03:38	14°♍32'40	-4.9m
	7451 Dec 27 17:50	0°♒		retrograde	7454 Jun 04 12:03	16°♍33'35	
	7452 Jan 20 20:30	0°♓		evening set	7454 Jun 20 04:44	11°♍45'10	
max. Earth dist.	7452 Jan 23 15:31	3°♓28'56	1.71949 AU	inferior conj	7454 Jun 25 12:11	8°♍33'22	4°17'50
desc. node	7452 Jan 26 10:30	6°♓57'48		minimum elong	7454 Jun 25 21:00	8°♍19'41	4°15'16
				min. Earth dist.	7454 Jun 25 09:32	8°♍37'30	0.27609 AU
superior conj	7452 Jan 26 16:20	7°♓16'02	-0°00'36	morning rise	7454 Jul 01 13:37	4°♍57'12	
minimum elong	7452 Jan 26 16:11	7°♓15'33	0°00'30	desc. node	7454 Jul 13 06:16	0°♍51'22	
behind sun begin	7452 Jan 25 15:26	5°♓58'21		direct	7454 Jul 16 09:32	0°♍39'38	
behind sun end	7452 Jan 27 16:56	8°♓32'46		greatest brilliancy	7454 Jul 26 06:11	2°♍26'11	-4.8m
	7452 Feb 13 20:50	0°♈			7454 Sep 02 10:27	0°♌	
evening rise	7452 Mar 06 13:54	27°♈12'13		morning max el	7454 Sep 03 11:01	0°♌58'48	45°53'07
	7452 Mar 08 19:24	0°♉			7454 Oct 01 13:06	0°♍	
	7452 Apr 01 17:27	0°♊			7454 Oct 28 06:13	0°♎	
	7452 Apr 25 17:14	0°♋		asc. node	7454 Nov 03 05:57	6°♎55'51	
asc. node	7452 May 18 10:00	28°♋09'51			7454 Nov 22 20:20	0°♏	
	7452 May 19 21:43	0°♌			7454 Dec 17 18:08	0°♑	
	7452 Jun 13 10:24	0°♍			7455 Jan 11 05:37	0°♒	
	7452 Jul 08 12:08	0°♎			7455 Feb 04 10:36	0°♓	
	7452 Aug 03 12:38	0°♏		desc. node	7455 Feb 22 22:32	23°♓04'38	
	7452 Aug 31 14:04	0°♐			7455 Feb 28 11:18	0°♈	
evening max el	7452 Sep 06 12:39	5°♐50'14	45°39'29	morning set	7455 Mar 02 02:20	2°♈02'10	
desc. node	7452 Sep 07 03:45	6°♐26'28			7455 Mar 24 09:08	0°♉	
	7452 Oct 06 19:57	0°♑					
greatest brilliancy	7452 Oct 15 11:10	3°♑56'18	-4.7m	superior conj	7455 Apr 12 01:55	23°♈31'07	-1°25'17
retrograde	7452 Oct 25 05:15	5°♑39'15		minimum elong	7455 Apr 11 20:24	23°♈13'47	1°25'15
	7452 Nov 11 13:38	30°♑♈		max. Earth dist.	7455 Apr 12 06:17	23°♈44'52	1.71196 AU
evening set	7452 Nov 12 03:06	29°♈39'54			7455 Apr 17 05:34	0°♉	
inferior conj	7452 Nov 15 15:23	27°♈29'27	-8°08'17		7455 May 11 02:36	0°♊	
minimum elong	7452 Nov 15 21:55	27°♈19'11	8°07'32	evening rise	7455 May 22 16:37	14°♊30'39	
min. Earth dist.	7452 Nov 16 06:16	27°♈06'04	0.28871 AU		7455 Jun 04 02:15	0°♋	
morning rise	7452 Nov 19 16:32	24°♈59'16		asc. node	7455 Jun 15 21:48	14°♋42'04	
direct	7452 Dec 07 03:21	19°♈12'32			7455 Jun 28 06:13	0°♌	
greatest brilliancy	7452 Dec 18 02:32	21°♈24'30	-4.8m		7455 Jul 22 15:54	0°♍	
asc. node	7452 Dec 29 03:39	27°♈14'39			7455 Aug 16 09:22	0°♎	
	7453 Jan 02 03:19	0°♉			7455 Sep 10 14:33	0°♏	
morning max el	7453 Jan 26 00:15	21°♉01'28	46°22'46	desc. node	7455 Oct 05 15:12	28°♏52'56	
	7453 Feb 03 18:15	0°♊			7455 Oct 06 14:57	0°♑	
	7453 Mar 02 19:19	0°♋			7455 Nov 03 03:22	0°♒	
	7453 Mar 28 05:56	0°♌		evening max el	7455 Nov 18 03:24	15°♒04'44	45°58'21
desc. node	7453 Apr 19 20:46	27°♌24'57			7455 Dec 04 21:21	0°♓	
	7453 Apr 21 23:28	0°♍		greatest brilliancy	7455 Dec 27 17:21	13°♓49'36	-4.8m
	7453 May 16 08:37	0°♎		retrograde	7456 Jan 06 07:31	15°♓31'40	
	7453 Jun 09 14:16	0°♏		evening set	7456 Jan 20 20:18	11°♓23'44	

asc. node	7456 Jan 26 15:26	8°00'53		superior conj	7458 Jun 25 22:55	9°01'30	-0°40'43
inferior conj	7456 Jan 27 02:41	7°43'39	0°07'11	minimum elong	7458 Jun 26 07:47	9°29'06	0°40'26
minimum elong	7456 Jan 27 02:24	7°44'05	0°07'11	max. Earth dist.	7458 Jun 29 10:53	13°22'51	1.72196 AU
transit middle	7456 Jan 27 02:24	7°44'05	0°07'11		7458 Jul 12 19:51	0°0	
transit begin	7456 Jan 26 22:44	7°49'42		asc. node	7458 Jul 13 09:46	0°43'08	
transit end	7456 Jan 27 06:04	7°38'27		evening rise	7458 Aug 03 10:58	26°46'32	
min. Earth dist.	7456 Jan 27 13:30	7°27'03	0.27259 AU		7458 Aug 06 01:39	0°	
morning rise	7456 Feb 02 07:50	4°03'41			7458 Aug 30 10:46	0°	
	7456 Feb 13 20:45	30°03			7458 Sep 24 00:05	0°	
direct	7456 Feb 16 23:00	29°48'11			7458 Oct 18 19:17	0°	
	7456 Feb 20 02:21	0°		desc. node	7458 Nov 02 02:55	17°08'45	
greatest brilliancy	7456 Feb 27 15:36	1°57'16	-4.9m		7458 Nov 12 22:36	0°	
	7456 Apr 04 17:45	0°			7458 Dec 08 13:13	0°	
morning max el	7456 Apr 07 13:03	2°48'06	46°58'25		7459 Jan 03 23:12	0°	
	7456 May 02 19:58	0°		evening max el	7459 Jan 29 20:58	27°29'45	46°47'07
desc. node	7456 May 17 08:46	16°38'02			7459 Feb 01 09:40	0°	
	7456 May 28 18:41	0°		asc. node	7459 Feb 23 03:08	19°02'43	
	7456 Jun 22 22:09	0°		greatest brilliancy	7459 Mar 11 07:08	28°14'17	-4.9m
	7456 Jul 17 17:44	0°			7459 Mar 19 02:15	0°	
	7456 Aug 11 10:03	0°		retrograde	7459 Mar 21 04:59	0°05'21	
	7456 Sep 05 00:17	0°			7459 Mar 23 07:13	30°0	
asc. node	7456 Sep 07 07:49	2°49'41		evening set	7459 Apr 07 16:49	24°11'16	
	7456 Sep 29 12:09	0°		inferior conj	7459 Apr 10 19:49	22°16'50	8°54'21
morning set	7456 Oct 08 02:59	10°35'03		minimum elong	7459 Apr 10 14:23	22°25'12	8°53'54
	7456 Oct 23 21:30	0°		min. Earth dist.	7459 Apr 10 12:20	22°28'21	0.27038 AU
max. Earth dist.	7456 Nov 12 03:25	23°44'48	1.73107 AU	morning rise	7459 Apr 13 12:02	20°38'45	
				direct	7459 May 01 10:49	14°31'14	
superior conj	7456 Nov 13 14:59	25°34'40	1°21'28	greatest brilliancy	7459 May 10 20:19	16°11'43	-4.9m
minimum elong	7456 Nov 13 20:43	25°52'22	1°21'27		7459 Jun 02 06:03	0°	
	7456 Nov 17 04:52	0°		desc. node	7459 Jun 14 20:38	11°14'13	
	7456 Dec 11 11:03	0°		morning max el	7459 Jun 20 15:06	16°51'29	46°39'13
evening rise	7456 Dec 21 03:39	12°00'02			7459 Jul 03 09:20	0°	
desc. node	7456 Dec 28 00:36	20°30'42			7459 Jul 30 13:05	0°	
	7457 Jan 04 16:25	0°			7459 Aug 25 11:59	0°	
	7457 Jan 28 20:59	0°			7459 Sep 19 21:08	0°	
	7457 Feb 22 01:11	0°		asc. node	7459 Oct 05 19:48	19°05'28	
	7457 Mar 18 07:02	0°			7459 Oct 14 20:53	0°	
	7457 Apr 11 18:39	0°			7459 Nov 08 12:56	0°	
asc. node	7457 Apr 20 00:12	9°58'02			7459 Dec 02 22:54	0°	
	7457 May 06 19:03	0°		morning set	7459 Dec 16 20:57	17°12'31	
	7457 Jun 01 21:36	0°			7459 Dec 27 04:34	0°	
evening max el	7457 Jun 25 11:03	24°55'16	46°14'27		7460 Jan 20 07:17	0°	
	7457 Jun 30 16:48	0°		max. Earth dist.	7460 Jan 21 03:22	1°02'38	1.71997 AU
greatest brilliancy	7457 Aug 02 22:45	24°05'19	-4.8m				
desc. node	7457 Aug 09 18:10	25°59'49		superior conj	7460 Jan 24 05:44	4°54'28	0°03'09
retrograde	7457 Aug 14 02:54	26°21'48		minimum elong	7460 Jan 24 06:30	4°56'53	0°03'11
evening set	7457 Aug 29 21:15	21°31'46		behind sun begin	7460 Jan 23 06:06	3°40'48	
min. Earth dist.	7457 Sep 03 21:56	18°29'36	0.28809 AU	behind sun end	7460 Jan 25 06:54	6°12'57	
inferior conj	7457 Sep 04 13:33	18°05'11	-5°43'05	desc. node	7460 Jan 25 12:34	6°30'38	
minimum elong	7457 Sep 04 03:41	18°20'37	5°40'54		7460 Feb 13 07:42	0°	
morning rise	7457 Sep 09 10:33	15°07'10		evening rise	7460 Mar 04 01:42	24°44'20	
direct	7457 Sep 25 23:59	9°54'29			7460 Mar 08 06:23	0°	
greatest brilliancy	7457 Oct 05 20:33	11°40'11	-4.7m		7460 Apr 01 04:34	0°	
	7457 Nov 03 02:38	0°			7460 Apr 25 04:31	0°	
morning max el	7457 Nov 13 19:39	9°49'06	45°44'18	asc. node	7460 May 17 11:59	27°40'23	
asc. node	7457 Nov 30 17:55	27°00'05			7460 May 19 09:17	0°	
	7457 Dec 03 13:20	0°			7460 Jun 12 22:28	0°	
	7457 Dec 30 08:24	0°			7460 Jul 08 01:09	0°	
	7458 Jan 24 17:53	0°			7460 Aug 03 03:38	0°	
	7458 Feb 18 10:28	0°			7460 Aug 31 10:30	0°	
	7458 Mar 14 17:40	0°		evening max el	7460 Sep 04 02:38	3°34'59	45°39'48
desc. node	7458 Mar 22 10:39	9°34'48		desc. node	7460 Sep 06 05:40	5°36'49	
	7458 Apr 07 19:25	0°			7460 Oct 08 17:19	0°	
	7458 May 01 18:27	0°		greatest brilliancy	7460 Oct 13 02:07	1°45'23	-4.7m
morning set	7458 May 17 12:20	19°44'07		retrograde	7460 Oct 22 20:24	3°28'59	
	7458 May 25 17:02	0°			7460 Nov 05 06:12	30°0	
	7458 Jun 18 17:07	0°		evening set	7460 Nov 09 20:37	27°26'29	

inferior conj	7460 Nov 13 07:18	25° \mathbb{M} 18'33	-8°14'28	max. Earth dist.	7463 Apr 09 14:40	21° Υ 06'40	1.71195 AU
minimum elong	7460 Nov 13 13:12	25° \mathbb{M} 09'17	8°13'52		7463 Apr 16 16:14	0° \mathcal{B}	
min. Earth dist.	7460 Nov 13 21:36	24° \mathbb{M} 56'05	0.28910 AU		7463 May 10 13:18	0° \mathbb{I}	
morning rise	7460 Nov 17 05:34	22° \mathbb{M} 52'36		evening rise	7463 May 20 04:05	12° \mathbb{I} 02'55	
direct	7460 Dec 04 18:55	17° \mathbb{M} 01'08			7463 Jun 03 13:01	0° \mathcal{E}	
greatest brilliancy	7460 Dec 15 18:42	19° \mathbb{M} 13'07	-4.8m	asc. node	7463 Jun 14 23:53	14° \mathcal{E} 14'58	
asc. node	7460 Dec 28 05:39	25° \mathbb{M} 59'04			7463 Jun 27 17:06	0° \mathcal{Q}	
	7461 Jan 02 17:55	0° \mathcal{A}			7463 Jul 22 03:01	0° \mathbb{P}	
morning max el	7461 Jan 23 14:37	18° \mathcal{A} 43'43	46°21'14		7463 Aug 15 20:57	0° \mathcal{L}	
	7461 Feb 03 12:56	0° \mathcal{Z}			7463 Sep 10 03:02	0° \mathbb{M}	
	7461 Mar 02 09:59	0° \approx		desc. node	7463 Oct 04 17:11	28° \mathbb{M} 18'33	
	7461 Mar 27 18:58	0° \mathcal{H}			7463 Oct 06 05:13	0° \mathcal{A}	
desc. node	7461 Apr 18 22:41	26° \mathcal{H} 53'23			7463 Nov 02 21:50	0° \mathcal{Z}	
	7461 Apr 21 11:38	0° Υ		evening max el	7463 Nov 15 18:23	12° \mathcal{Z} 50'35	45°56'56
	7461 May 15 20:15	0° \mathcal{B}			7463 Dec 05 09:36	0° \approx	
	7461 Jun 09 01:31	0° \mathbb{I}		greatest brilliancy	7463 Dec 25 06:21	11° \approx 29'03	-4.8m
	7461 Jul 03 06:29	0° \mathcal{E}		retrograde	7464 Jan 03 21:12	13° \approx 11'10	
	7461 Jul 27 12:34	0° \mathcal{Q}		evening set	7464 Jan 18 10:43	9° \approx 01'52	
morning set	7461 Jul 28 20:20	1° \mathcal{Q} 38'07		inferior conj	7464 Jan 24 16:11	5° \approx 22'33	-0°16'08
asc. node	7461 Aug 09 21:40	16° \mathcal{Q} 31'19		minimum elong	7464 Jan 24 16:48	5° \approx 21'36	0°15'51
	7461 Aug 20 19:50	0° \mathbb{P}		transit middle	7464 Jan 24 16:48	5° \approx 21'36	0°15'51
				transit begin	7464 Jan 24 15:37	5° \approx 23'25	
superior conj	7461 Sep 04 09:10	17° \mathbb{P} 57'06	0°56'23	transit end	7464 Jan 24 17:59	5° \approx 19'46	
minimum elong	7461 Sep 03 23:52	17° \mathbb{P} 28'27	0°56'01	min. Earth dist.	7464 Jan 25 03:39	5° \approx 04'55	0.27300 AU
max. Earth dist.	7461 Sep 05 03:30	18° \mathbb{P} 53'38	1.73248 AU	asc. node	7464 Jan 25 17:26	4° \approx 43'48	
	7461 Sep 14 03:47	0° \mathcal{L}		morning rise	7464 Jan 30 22:18	1° \approx 41'23	
	7461 Oct 08 12:21	0° \mathbb{M}			7464 Feb 03 08:27	30° \mathcal{R} \mathcal{Z}	
evening rise	7461 Oct 10 17:05	2° \mathbb{M} 42'11		direct	7464 Feb 14 13:40	27° \mathcal{Z} 26'32	
	7461 Nov 01 22:13	0° \mathcal{A}		greatest brilliancy	7464 Feb 25 06:07	29° \mathcal{Z} 35'55	-4.9m
	7461 Nov 26 10:05	0° \mathcal{Z}			7464 Feb 26 06:14	0° \approx	
desc. node	7461 Nov 29 14:44	3° \mathcal{Z} 54'12			7464 Apr 04 16:32	0° \mathcal{H}	
	7461 Dec 21 00:17	0° \approx		morning max el	7464 Apr 05 03:59	0° \mathcal{H} 28'51	46°58'04
	7462 Jan 14 17:10	0° \mathcal{H}			7464 May 02 12:01	0° Υ	
	7462 Feb 08 14:56	0° Υ		desc. node	7464 May 16 10:53	16° Υ 02'01	
	7462 Mar 06 00:48	0° \mathcal{B}			7464 May 28 08:18	0° \mathcal{B}	
asc. node	7462 Mar 22 14:31	18° \mathcal{B} 52'50			7464 Jun 22 10:31	0° \mathbb{I}	
	7462 Apr 01 18:09	0° \mathbb{I}			7464 Jul 17 05:21	0° \mathcal{E}	
evening max el	7462 Apr 12 13:22	11° \mathbb{I} 16'02	46°58'49		7464 Aug 10 21:10	0° \mathcal{Q}	
	7462 May 02 21:58	0° \mathcal{E}			7464 Sep 04 11:02	0° \mathbb{P}	
greatest brilliancy	7462 May 22 18:55	12° \mathcal{E} 13'24	-4.9m	asc. node	7464 Sep 06 09:44	2° \mathbb{P} 22'42	
retrograde	7462 Jun 02 02:29	14° \mathcal{E} 14'00			7464 Sep 28 22:42	0° \mathcal{L}	
evening set	7462 Jun 17 21:38	9° \mathcal{E} 21'32		morning set	7464 Oct 05 20:20	8° \mathcal{L} 28'35	
inferior conj	7462 Jun 23 02:16	6° \mathcal{E} 14'08	4°37'47		7464 Oct 23 07:57	0° \mathbb{M}	
minimum elong	7462 Jun 23 11:35	5° \mathcal{E} 59'43	4°35'09	max. Earth dist.	7464 Nov 09 22:51	21° \mathbb{M} 44'20	1.73130 AU
min. Earth dist.	7462 Jun 23 00:15	6° \mathcal{E} 17'15	0.27583 AU				
morning rise	7462 Jun 29 01:49	2° \mathcal{E} 40'48		superior conj	7464 Nov 11 08:08	23° \mathbb{M} 27'07	1°22'26
	7462 Jul 04 21:14	30° \mathcal{R} \mathbb{I}		minimum elong	7464 Nov 11 13:15	23° \mathbb{M} 42'54	1°22'27
desc. node	7462 Jul 12 08:21	28° \mathbb{I} 23'35			7464 Nov 16 15:20	0° \mathcal{A}	
direct	7462 Jul 13 22:52	28° \mathbb{I} 20'31			7464 Dec 10 21:37	0° \mathcal{Z}	
	7462 Jul 23 10:54	0° \mathcal{E}		evening rise	7464 Dec 18 18:52	9° \mathcal{Z} 45'34	
greatest brilliancy	7462 Jul 23 20:17	0° \mathcal{E} 08'00	-4.8m	desc. node	7464 Dec 27 02:37	20° \mathcal{Z} 03'52	
morning max el	7462 Sep 01 02:01	28° \mathcal{E} 44'46	45°54'21		7465 Jan 04 03:10	0° \approx	
	7462 Sep 02 09:11	0° \mathcal{Q}			7465 Jan 28 07:59	0° \mathcal{H}	
	7462 Oct 01 04:46	0° \mathbb{P}			7465 Feb 21 12:30	0° Υ	
	7462 Oct 27 19:21	0° \mathcal{L}			7465 Mar 17 18:45	0° \mathcal{B}	
asc. node	7462 Nov 02 07:58	6° \mathcal{L} 24'26			7465 Apr 11 07:00	0° \mathbb{I}	
	7462 Nov 22 08:16	0° \mathbb{M}		asc. node	7465 Apr 19 02:16	9° \mathbb{I} 26'10	
	7462 Dec 17 05:28	0° \mathcal{A}			7465 May 06 08:33	0° \mathcal{E}	
	7463 Jan 10 16:38	0° \mathcal{Z}			7465 Jun 01 13:39	0° \mathcal{Q}	
	7463 Feb 03 21:26	0° \approx		evening max el	7465 Jun 23 03:28	22° \mathcal{Q} 44'05	46°16'04
desc. node	7463 Feb 22 00:29	22° \approx 37'11			7465 Jun 30 17:01	0° \mathbb{P}	
morning set	7463 Feb 27 13:49	29° \approx 34'15		greatest brilliancy	7465 Jul 31 14:57	21° \mathbb{P} 55'14	-4.8m
	7463 Feb 27 22:03	0° \mathcal{H}		desc. node	7465 Aug 08 20:04	24° \mathbb{P} 01'22	
	7463 Mar 23 19:49	0° Υ		retrograde	7465 Aug 11 19:15	24° \mathbb{P} 11'35	
				evening set	7465 Aug 27 11:05	19° \mathbb{P} 25'27	
superior conj	7463 Apr 09 12:59	21° Υ 01'22	-1°24'16	min. Earth dist.	7465 Sep 01 13:35	16° \mathbb{P} 20'31	0.28769 AU
minimum elong	7463 Apr 09 06:31	20° Υ 41'02	1°24'14	inferior conj	7465 Sep 02 05:37	15° \mathbb{P} 55'24	-5°27'48




































































































































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morning rise	7465 Sep 07 05:12	12° \mathbb{M} 53'37			7468 Mar 07 17:18	0° \mathbb{Y}	
direct	7465 Sep 23 16:17	7° \mathbb{M} 45'34			7468 Mar 31 15:37	0° \mathbb{B}	
greatest brilliancy	7465 Oct 03 11:16	9° \mathbb{M} 30'01	-4.7m		7468 Apr 24 15:46	0° \mathbb{I}	
	7465 Nov 03 05:25	0° \mathbb{L}		asc. node	7468 May 16 14:02	27° \mathbb{I} 11'08	
morning max el	7465 Nov 11 10:36	7° \mathbb{L} 37'13	45°43'36		7468 May 18 20:51	0° \mathbb{G}	
asc. node	7465 Nov 29 19:59	26° \mathbb{L} 20'24			7468 Jun 12 10:33	0° \mathbb{Q}	
	7465 Dec 03 05:46	0° \mathbb{M}			7468 Jul 07 14:12	0° \mathbb{M}	
	7465 Dec 29 21:55	0° \mathbb{X}			7468 Aug 02 18:43	0° \mathbb{L}	
	7466 Jan 24 06:08	0° \mathbb{B}			7468 Aug 31 07:27	0° \mathbb{M}	
	7466 Feb 17 22:04	0° \approx		evening max el	7468 Sep 01 16:49	1° \mathbb{M} 20'47	45°40'17
	7466 Mar 14 04:55	0° \mathbb{H}		desc. node	7468 Sep 05 07:39	4° \mathbb{M} 47'00	
desc. node	7466 Mar 21 12:32	9° \mathbb{H} 05'54		greatest brilliancy	7468 Oct 10 16:31	29° \mathbb{M} 34'37	-4.7m
	7466 Apr 07 06:27	0° \mathbb{Y}			7468 Oct 12 00:02	0° \mathbb{X}	
	7466 May 01 05:18	0° \mathbb{B}		retrograde	7468 Oct 20 12:07	1° \mathbb{X} 19'44	
morning set	7466 May 15 00:22	17° \mathbb{B} 17'46			7468 Oct 28 16:51	30° \mathbb{R} \mathbb{M}	
	7466 May 25 03:44	0° \mathbb{I}		evening set	7468 Nov 07 14:04	25° \mathbb{M} 14'09	
	7466 Jun 18 03:41	0° \mathbb{G}		inferior conj	7468 Nov 10 23:25	23° \mathbb{M} 08'22	-8°19'51
				minimum elong	7468 Nov 11 04:39	23° \mathbb{M} 00'10	8°19'22
superior conj	7466 Jun 23 12:48	6° \mathbb{G} 42'19	-0°43'55	min. Earth dist.	7468 Nov 11 12:50	22° \mathbb{M} 47'19	0.28953 AU
minimum elong	7466 Jun 23 22:11	7° \mathbb{G} 11'35	0°43'37	morning rise	7468 Nov 14 19:02	20° \mathbb{M} 46'33	
max. Earth dist.	7466 Jun 27 04:14	11° \mathbb{G} 14'36	1.72144 AU	direct	7468 Dec 02 10:57	14° \mathbb{M} 50'21	
asc. node	7466 Jul 12 11:42	0° \mathbb{Q} 16'30		greatest brilliancy	7468 Dec 13 11:03	17° \mathbb{M} 02'30	-4.8m
	7466 Jul 12 06:22	0° \mathbb{Q}		asc. node	7468 Dec 27 07:37	24° \mathbb{M} 45'46	
evening rise	7466 Aug 01 03:20	24° \mathbb{Q} 36'16			7469 Jan 03 04:43	0° \mathbb{X}	
	7466 Aug 05 12:12	0° \mathbb{M}		morning max el	7469 Jan 21 06:04	16° \mathbb{X} 28'37	46°19'37
	7466 Aug 29 21:27	0° \mathbb{L}			7469 Feb 03 07:14	0° \mathbb{B}	
	7466 Sep 23 11:03	0° \mathbb{M}			7469 Mar 02 00:35	0° \approx	
	7466 Oct 18 06:46	0° \mathbb{X}			7469 Mar 27 08:00	0° \mathbb{H}	
desc. node	7466 Nov 01 04:58	16° \mathbb{X} 39'23		desc. node	7469 Apr 18 00:49	26° \mathbb{H} 22'24	
	7466 Nov 12 10:54	0° \mathbb{B}			7469 Apr 20 23:50	0° \mathbb{Y}	
	7466 Dec 08 02:59	0° \approx			7469 May 15 07:55	0° \mathbb{B}	
	7467 Jan 03 15:50	0° \mathbb{H}			7469 Jun 08 12:50	0° \mathbb{I}	
evening max el	7467 Jan 27 09:53	25° \mathbb{H} 05'04	46°45'31		7469 Jul 02 17:32	0° \mathbb{G}	
	7467 Feb 01 10:13	0° \mathbb{Y}		morning set	7469 Jul 26 12:08	29° \mathbb{G} 25'05	
asc. node	7467 Feb 22 05:02	17° \mathbb{Y} 43'46			7469 Jul 26 23:26	0° \mathbb{Q}	
greatest brilliancy	7467 Mar 08 20:36	25° \mathbb{Y} 48'41	-4.9m	asc. node	7469 Aug 08 23:36	16° \mathbb{Q} 04'06	
retrograde	7467 Mar 18 17:12	27° \mathbb{Y} 38'49			7469 Aug 20 06:33	0° \mathbb{M}	
evening set	7467 Apr 05 01:37	21° \mathbb{Y} 51'13					
inferior conj	7467 Apr 08 08:34	19° \mathbb{Y} 50'54	8°48'00	superior conj	7469 Sep 02 02:32	15° \mathbb{M} 49'53	0°53'53
minimum elong	7467 Apr 08 02:16	20° \mathbb{Y} 00'37	8°47'24	minimum elong	7469 Sep 01 17:21	15° \mathbb{M} 21'32	0°53'30
min. Earth dist.	7467 Apr 08 01:14	20° \mathbb{Y} 02'13	0.27021 AU	max. Earth dist.	7469 Sep 02 22:25	16° \mathbb{M} 51'09	1.73228 AU
morning rise	7467 Apr 11 02:59	18° \mathbb{Y} 09'24			7469 Sep 13 14:25	0° \mathbb{L}	
direct	7467 Apr 28 23:00	12° \mathbb{Y} 05'21			7469 Oct 07 23:02	0° \mathbb{M}	
greatest brilliancy	7467 May 08 09:44	13° \mathbb{Y} 46'27	-4.9m	evening rise	7469 Oct 08 11:09	0° \mathbb{M} 37'15	
	7467 Jun 02 16:01	0° \mathbb{B}			7469 Nov 01 09:04	0° \mathbb{X}	
desc. node	7467 Jun 13 22:37	10° \mathbb{B} 18'43			7469 Nov 25 21:17	0° \mathbb{B}	
morning max el	7467 Jun 18 03:06	14° \mathbb{B} 25'04	46°40'53	desc. node	7469 Nov 28 16:45	3° \mathbb{B} 26'03	
	7467 Jul 03 03:56	0° \mathbb{I}			7469 Dec 20 11:58	0° \approx	
	7467 Jul 30 03:39	0° \mathbb{G}			7470 Jan 14 05:30	0° \mathbb{H}	
	7467 Aug 25 00:44	0° \mathbb{Q}			7470 Feb 08 04:17	0° \mathbb{Y}	
	7467 Sep 19 08:53	0° \mathbb{M}			7470 Mar 05 15:59	0° \mathbb{B}	
asc. node	7467 Oct 04 21:51	18° \mathbb{M} 37'31		asc. node	7470 Mar 21 16:37	18° \mathbb{B} 10'34	
	7467 Oct 14 08:03	0° \mathbb{L}			7470 Apr 01 13:34	0° \mathbb{I}	
	7467 Nov 07 23:47	0° \mathbb{M}		evening max el	7470 Apr 10 03:20	8° \mathbb{I} 53'35	46°59'38
	7467 Dec 02 09:36	0° \mathbb{X}			7470 May 03 12:35	0° \mathbb{G}	
morning set	7467 Dec 14 13:04	15° \mathbb{X} 00'44		greatest brilliancy	7470 May 20 09:37	9° \mathbb{G} 52'36	-4.9m
	7467 Dec 26 15:13	0° \mathbb{B}		retrograde	7470 May 30 17:16	11° \mathbb{G} 53'23	
max. Earth dist.	7468 Jan 18 17:29	28° \mathbb{B} 43'39	1.72043 AU	evening set	7470 Jun 15 14:34	6° \mathbb{G} 56'40	
	7468 Jan 19 17:59	0° \approx		inferior conj	7470 Jun 20 16:14	3° \mathbb{G} 53'41	4°57'24
				minimum elong	7470 Jun 21 01:59	3° \mathbb{G} 38'38	4°54'43
superior conj	7468 Jan 21 19:10	2° \approx 33'19	0°06'49	min. Earth dist.	7470 Jun 20 14:29	3° \mathbb{G} 56'24	0.27559 AU
minimum elong	7468 Jan 21 20:50	2° \approx 38'32	0°06'49	morning rise	7470 Jun 26 13:41	0° \mathbb{G} 23'38	
behind sun begin	7468 Jan 20 22:13	1° \approx 28'00			7470 Jun 27 07:15	30° \mathbb{R} \mathbb{I}	
behind sun end	7468 Jan 22 19:27	3° \approx 49'05		desc. node	7470 Jul 11 10:18	26° \mathbb{I} 00'17	
desc. node	7468 Jan 24 14:27	6° \approx 03'08		direct	7470 Jul 11 12:42	26° \mathbb{I} 00'16	
	7468 Feb 12 18:30	0° \mathbb{H}		greatest brilliancy	7470 Jul 21 09:44	27° \mathbb{I} 48'03	-4.8m

	7470 Jul 26 14:59	0°☿			7473 Feb 21 00:11	0°♃		
morning max el	7470 Aug 29 17:36	26°☿31'21	45°55'41		7473 Mar 17 06:56	0°♄		
	7470 Sep 02 07:18	0°♌			7473 Apr 10 19:54	0°♅		
	7470 Sep 30 20:26	0°♍		asc. node	7473 Apr 18 04:15	8°♅52'20		
	7470 Oct 27 08:36	0°♎			7473 May 05 22:45	0°☿		
asc. node	7470 Nov 01 10:02	5°♎52'42			7473 Jun 01 06:40	0°♌		
	7470 Nov 21 20:21	0°♍		evening max el	7473 Jun 20 18:48	20°♌28'12	46°17'45	
	7470 Dec 16 16:58	0°♎			7473 Jun 30 19:23	0°♍		
	7471 Jan 10 03:51	0°♏		greatest brilliancy	7473 Jul 29 07:35	19°♍43'24	-4.8m	
	7471 Feb 03 08:33	0°♐		desc. node	7473 Aug 07 22:03	21°♍56'12		
desc. node	7471 Feb 21 02:27	22°♐08'46		retrograde	7473 Aug 09 11:01	21°♍58'58		
morning set	7471 Feb 25 01:13	27°♐05'06		evening set	7473 Aug 25 00:48	17°♍16'35		
	7471 Feb 27 09:06	0°♑		min. Earth dist.	7473 Aug 30 05:23	14°♍08'35	0.28725 AU	
	7471 Mar 23 06:51	0°♒		inferior conj	7473 Aug 30 21:26	13°♍43'25	-5°11'57	
				minimum elong	7473 Aug 30 11:55	13°♍58'20	5°09'41	
superior conj	7471 Apr 06 23:36	18°♒29'01	-1°23'06	morning rise	7473 Sep 04 23:33	10°♍37'49		
minimum elong	7471 Apr 06 16:14	18°♒05'51	1°23'01	direct	7473 Sep 21 07:44	5°♍34'24		
max. Earth dist.	7471 Apr 06 22:54	18°♒26'49	1.71194 AU	greatest brilliancy	7473 Oct 01 02:12	7°♍18'01	-4.7m	
	7471 Apr 16 03:17	0°♓			7473 Nov 03 07:23	0°♎		
	7471 May 10 00:22	0°♑		morning max el	7473 Nov 09 00:40	5°♎21'42	45°43'08	
evening rise	7471 May 17 15:06	9°♑32'33		asc. node	7473 Nov 28 21:51	25°♎39'17		
	7471 Jun 03 00:08	0°☿			7473 Dec 02 22:23	0°♍		
asc. node	7471 Jun 14 01:47	13°☿46'14			7473 Dec 29 11:42	0°♎		
	7471 Jun 27 04:20	0°♌			7474 Jan 23 18:39	0°♏		
	7471 Jul 21 14:31	0°♍			7474 Feb 17 09:57	0°♐		
	7471 Aug 15 08:57	0°♎			7474 Mar 13 16:26	0°♑		
	7471 Sep 09 15:57	0°♏		desc. node	7474 Mar 20 14:39	8°♑36'51		
desc. node	7471 Oct 03 19:17	27°♏43'23			7474 Apr 06 17:47	0°♒		
	7471 Oct 05 19:59	0°♎			7474 Apr 30 16:30	0°♓		
	7471 Nov 02 17:06	0°♏		morning set	7474 May 12 12:02	14°♓49'00		
evening max el	7471 Nov 13 09:38	10°♓36'33	45°55'36		7474 May 24 14:50	0°♑		
	7471 Dec 06 02:15	0°♐			7474 Jun 17 14:43	0°☿		
greatest brilliancy	7471 Dec 22 19:59	9°♐09'17	-4.8m					
retrograde	7472 Jan 01 10:48	10°♐50'43		superior conj	7474 Jun 21 02:10	4°☿20'10	-0°47'06	
evening set	7472 Jan 16 01:37	6°♐40'03		minimum elong	7474 Jun 21 12:02	4°☿50'55	0°46'47	
inferior conj	7472 Jan 22 05:58	3°♐01'39	-0°39'05	max. Earth dist.	7474 Jun 24 18:26	8°☿55'05	1.72094 AU	
minimum elong	7472 Jan 22 07:28	2°♐59'21	0°38'31	asc. node	7474 Jul 11 13:38	29°☿48'26		
min. Earth dist.	7472 Jan 22 18:11	2°♐42'52	0.27346 AU		7474 Jul 11 17:21	0°♌		
asc. node	7472 Jan 24 19:21	1°♐27'50		evening rise	7474 Jul 29 19:03	22°♌22'33		
	7472 Jan 27 07:18	30°♑			7474 Aug 04 23:13	0°♍		
morning rise	7472 Jan 28 12:47	29°♑19'16			7474 Aug 29 08:36	0°♎		
direct	7472 Feb 12 04:28	25°♑05'06			7474 Sep 22 22:28	0°♏		
greatest brilliancy	7472 Feb 22 20:57	27°♑14'25	-4.9m		7474 Oct 17 18:41	0°♎		
	7472 Feb 28 18:16	0°♐		desc. node	7474 Oct 31 06:56	16°♎08'28		
morning max el	7472 Apr 02 18:16	28°♐06'44	46°57'20		7474 Nov 11 23:42	0°♏		
	7472 Apr 04 14:52	0°♑			7474 Dec 07 17:17	0°♐		
	7472 May 02 04:19	0°♒			7475 Jan 03 09:08	0°♑		
desc. node	7472 May 15 12:50	15°♒24'16		evening max el	7475 Jan 24 22:18	22°♑38'37	46°44'08	
	7472 May 27 22:18	0°♓			7475 Feb 01 12:19	0°♒		
	7472 Jun 21 23:18	0°♑		asc. node	7475 Feb 21 07:07	16°♒22'16		
	7472 Jul 16 17:23	0°☿		greatest brilliancy	7475 Mar 06 10:01	23°♒22'48	-4.9m	
	7472 Aug 10 08:40	0°♌		retrograde	7475 Mar 16 05:42	25°♒12'33		
	7472 Sep 03 22:12	0°♍		evening set	7475 Apr 02 10:21	19°♒31'20		
asc. node	7472 Sep 05 11:44	1°♍54'48		inferior conj	7475 Apr 05 21:30	17°♒25'01	8°40'40	
	7472 Sep 28 09:39	0°♎		minimum elong	7475 Apr 05 14:24	17°♒35'57	8°39'52	
morning set	7472 Oct 03 13:40	6°♎20'52		min. Earth dist.	7475 Apr 05 14:16	17°♒36'09	0.27009 AU	
	7472 Oct 22 18:49	0°♏		morning rise	7475 Apr 08 18:29	15°♒39'42		
max. Earth dist.	7472 Nov 07 16:34	19°♏37'23	1.73148 AU	direct	7475 Apr 26 11:11	9°♒39'17		
				greatest brilliancy	7475 May 05 23:27	11°♒21'26	-4.9m	
superior conj	7472 Nov 09 01:35	21°♏19'18	1°23'17		7475 Jun 02 23:30	0°♓		
minimum elong	7472 Nov 09 06:04	21°♏33'09	1°23'19	desc. node	7475 Jun 13 00:34	9°♓23'38		
	7472 Nov 16 02:11	0°♎		morning max el	7475 Jun 15 15:49	11°♓59'38	46°42'15	
	7472 Dec 10 08:32	0°♏			7475 Jul 02 22:23	0°♑		
evening rise	7472 Dec 16 10:25	7°♏31'14			7475 Jul 29 18:26	0°☿		
desc. node	7472 Dec 26 04:31	19°♏35'37			7475 Aug 24 13:47	0°♌		
	7473 Jan 03 14:15	0°♐			7475 Sep 18 20:58	0°♍		
	7473 Jan 27 19:19	0°♑		asc. node	7475 Oct 03 23:53	18°♍08'32		

	7475 Oct 13 19:32	0°♌			7478 May 04 07:53	0°♏	
	7475 Nov 07 10:55	0°♍		greatest brilliancy	7478 May 18 00:17	7°♏32'28	-4.9m
	7475 Dec 01 20:33	0°♎		retrograde	7478 May 28 08:21	9°♏33'21	
morning set	7475 Dec 12 05:02	12°♎47'46		evening set	7478 Jun 13 07:44	4°♏32'32	
	7475 Dec 26 02:08	0°♏		inferior conj	7478 Jun 18 06:16	1°♏33'55	5°16'31
max. Earth dist.	7476 Jan 16 09:04	26°♏28'34	1.72087 AU	minimum elong	7478 Jun 18 16:23	1°♏18'18	5°13'47
				min. Earth dist.	7478 Jun 18 04:27	1°♏36'44	0.27531 AU
superior conj	7476 Jan 19 08:38	0°♐11'34	0°10'29		7478 Jun 20 19:36	30°♐II	
minimum elong	7476 Jan 19 11:11	0°♐19'30	0°10'27	morning rise	7478 Jun 24 01:24	28°♐07'28	
behind sun begin	7476 Jan 18 16:10	29°♐20'15		direct	7478 Jul 09 02:56	23°♐41'05	
behind sun end	7476 Jan 20 06:11	1°♐18'46		desc. node	7478 Jul 10 12:16	23°♐43'23	
	7476 Jan 19 04:55	0°♐		greatest brilliancy	7478 Jul 18 22:31	25°♐28'13	-4.8m
desc. node	7476 Jan 23 16:28	5°♐35'17			7478 Jul 28 10:57	0°♏	
	7476 Feb 12 05:30	0°♑		morning max el	7478 Aug 27 09:05	24°♏18'25	45°56'49
evening rise	7476 Feb 28 01:47	19°♑50'20			7478 Sep 02 04:17	0°♑	
	7476 Mar 07 04:23	0°♒			7478 Sep 30 11:39	0°♒	
	7476 Mar 31 02:48	0°♓			7478 Oct 26 21:36	0°♑	
	7476 Apr 24 03:08	0°♒		asc. node	7478 Oct 31 11:53	5°♑20'54	
asc. node	7476 May 15 15:56	26°♒41'03			7478 Nov 21 08:17	0°♒	
	7476 May 18 08:33	0°♏			7478 Dec 16 04:21	0°♑	
	7476 Jun 11 22:49	0°♑			7479 Jan 09 14:57	0°♏	
	7476 Jul 07 03:31	0°♒			7479 Feb 02 19:29	0°♐	
	7476 Aug 02 10:19	0°♑		desc. node	7479 Feb 20 04:29	21°♐41'07	
evening max el	7476 Aug 30 07:44	29°♑07'28	45°40'49	morning set	7479 Feb 22 12:34	24°♐36'28	
	7476 Aug 31 05:37	0°♒			7479 Feb 26 19:58	0°♑	
desc. node	7476 Sep 04 09:46	3°♒55'33			7479 Mar 22 17:42	0°♒	
greatest brilliancy	7476 Oct 08 06:17	27°♒22'05	-4.7m				
retrograde	7476 Oct 18 04:11	29°♒09'08		superior conj	7479 Apr 04 10:11	15°♒57'12	-1°21'45
evening set	7476 Nov 05 07:05	23°♒00'50		minimum elong	7479 Apr 04 01:58	15°♒31'21	1°21'38
inferior conj	7476 Nov 08 15:18	20°♒56'51	-8°24'35	max. Earth dist.	7479 Apr 04 06:11	15°♒44'35	1.71194 AU
minimum elong	7476 Nov 08 19:50	20°♒49'45	8°24'12		7479 Apr 15 14:08	0°♓	
min. Earth dist.	7476 Nov 09 03:28	20°♒37'47	0.28991 AU		7479 May 09 11:14	0°♒	
morning rise	7476 Nov 12 08:26	18°♒38'59		evening rise	7479 May 15 02:05	7°♒02'38	
direct	7476 Nov 30 03:08	12°♒38'27			7479 Jun 02 11:02	0°♏	
greatest brilliancy	7476 Dec 11 02:31	14°♒50'11	-4.8m	asc. node	7479 Jun 13 03:45	13°♏18'29	
asc. node	7476 Dec 26 09:37	23°♒33'56			7479 Jun 26 15:18	0°♑	
	7477 Jan 03 12:55	0°♑			7479 Jul 21 01:43	0°♒	
morning max el	7477 Jan 18 22:09	14°♑14'55	46°18'01		7479 Aug 14 20:39	0°♑	
	7477 Feb 03 01:15	0°♏			7479 Sep 09 04:39	0°♒	
	7477 Mar 01 15:07	0°♐		desc. node	7479 Oct 02 21:11	27°♒08'12	
	7477 Mar 26 21:00	0°♑			7479 Oct 05 10:40	0°♑	
desc. node	7477 Apr 17 02:42	25°♑50'43			7479 Nov 02 12:42	0°♏	
	7477 Apr 20 11:59	0°♒		evening max el	7479 Nov 11 00:26	8°♏21'59	45°54'05
	7477 May 14 19:31	0°♓			7479 Dec 07 00:29	0°♐	
	7477 Jun 08 00:04	0°♒		greatest brilliancy	7479 Dec 20 10:12	6°♐50'35	-4.8m
	7477 Jul 02 04:31	0°♏		retrograde	7479 Dec 29 23:46	8°♐30'40	
morning set	7477 Jul 24 04:00	27°♏12'18		evening set	7480 Jan 13 16:36	4°♐18'25	
	7477 Jul 26 10:14	0°♑		inferior conj	7480 Jan 19 19:43	0°♐41'22	-1°02'00
asc. node	7477 Aug 08 01:40	15°♑37'21		minimum elong	7480 Jan 19 22:05	0°♐37'44	1°01'10
	7477 Aug 19 17:14	0°♒		min. Earth dist.	7480 Jan 20 09:01	0°♐20'52	0.27392 AU
					7480 Jan 20 22:33	30°♒♏	
superior conj	7477 Aug 30 19:40	13°♒41'46	0°51'16	asc. node	7480 Jan 23 21:25	28°♏13'15	
minimum elong	7477 Aug 30 10:38	13°♒13'55	0°50'53	morning rise	7480 Jan 26 02:58	26°♏57'51	
max. Earth dist.	7477 Aug 31 18:23	14°♒51'50	1.73213 AU	direct	7480 Feb 09 18:41	22°♏44'12	
	7477 Sep 13 01:04	0°♑		greatest brilliancy	7480 Feb 20 12:07	24°♏53'54	-4.9m
evening rise	7477 Oct 06 04:53	28°♑31'11			7480 Mar 01 07:59	0°♐	
	7477 Oct 07 09:45	0°♒		morning max el	7480 Mar 31 07:33	25°♐42'51	46°56'38
	7477 Oct 31 19:59	0°♑			7480 Apr 04 12:04	0°♑	
	7477 Nov 25 08:31	0°♏			7480 May 01 20:02	0°♒	
desc. node	7477 Nov 27 18:37	2°♏57'19		desc. node	7480 May 14 14:45	14°♒47'46	
	7477 Dec 19 23:40	0°♐			7480 May 27 11:50	0°♓	
	7478 Jan 13 17:53	0°♑			7480 Jun 21 11:41	0°♒	
	7478 Feb 07 17:44	0°♒			7480 Jul 16 05:00	0°♏	
	7478 Mar 05 07:20	0°♓			7480 Aug 09 19:46	0°♑	
asc. node	7478 Mar 20 18:38	17°♓27'45			7480 Sep 03 08:56	0°♒	
	7478 Apr 01 09:28	0°♒		asc. node	7480 Sep 04 13:45	1°♒28'10	
evening max el	7478 Apr 07 18:22	6°♒34'09	47°00'27		7480 Sep 27 20:11	0°♑	

morning set	7480 Oct 01 07:15	4°♄15'12		min. Earth dist.	7483 Apr 03 02:55	15°♍09'52	0.26999 AU
	7480 Oct 22 05:16	0°♌		morning rise	7483 Apr 06 10:03	13°♍09'15	
max. Earth dist.	7480 Nov 05 09:56	17°♌30'38	1.73174 AU	direct	7483 Apr 23 23:24	7°♍12'47	
				greatest brilliancy	7483 May 03 12:44	8°♍56'02	-4.9m
superior conj	7480 Nov 06 19:13	19°♌13'20	1°24'01		7483 Jun 03 04:33	0°♄	
minimum elong	7480 Nov 06 23:02	19°♌25'06	1°24'03	desc. node	7483 Jun 12 02:38	8°♄30'38	
	7480 Nov 15 12:41	0°♌		morning max el	7483 Jun 13 05:15	9°♄36'41	46°43'46
	7480 Dec 09 19:09	0°♄			7483 Jul 02 16:04	0°♄	
evening rise	7480 Dec 14 01:59	5°♄17'56			7483 Jul 29 08:40	0°♄	
desc. node	7480 Dec 25 06:34	19°♄08'44			7483 Aug 24 02:23	0°♄	
	7481 Jan 03 01:04	0°♄			7483 Sep 18 08:37	0°♄	
	7481 Jan 27 06:23	0°♄		asc. node	7483 Oct 03 01:43	17°♄40'11	
	7481 Feb 20 11:37	0°♍			7483 Oct 13 06:37	0°♄	
	7481 Mar 16 18:49	0°♄			7483 Nov 06 21:38	0°♌	
	7481 Apr 10 08:31	0°♄			7483 Dec 01 07:06	0°♌	
asc. node	7481 Apr 17 06:09	8°♄19'09		morning set	7483 Dec 09 21:35	10°♌37'53	
	7481 May 05 12:42	0°♄			7483 Dec 25 12:38	0°♄	
	7481 May 31 23:36	0°♄		max. Earth dist.	7484 Jan 14 02:35	24°♄20'44	1.72133 AU
evening max el	7481 Jun 18 09:29	18°♄11'46	46°19'30				
	7481 Jun 30 22:45	0°♄		superior conj	7484 Jan 16 22:31	27°♄52'20	0°14'05
greatest brilliancy	7481 Jul 27 00:35	17°♄33'18	-4.8m	minimum elong	7484 Jan 17 01:54	28°♄02'53	0°14'00
retrograde	7481 Aug 07 02:47	19°♄48'11		behind sun begin	7484 Jan 16 13:35	27°♄24'29	
desc. node	7481 Aug 07 00:09	19°♄48'10		behind sun end	7484 Jan 17 14:13	28°♄41'16	
evening set	7481 Aug 22 14:47	15°♄09'05			7484 Jan 18 15:30	0°♄	
min. Earth dist.	7481 Aug 27 21:38	11°♄58'06	0.28678 AU	desc. node	7484 Jan 22 18:30	5°♄08'38	
inferior conj	7481 Aug 28 13:25	11°♄33'19	-4°55'34		7484 Feb 11 16:12	0°♄	
minimum elong	7481 Aug 28 04:10	11°♄47'51	4°53'18	evening rise	7484 Feb 25 14:08	17°♄25'00	
morning rise	7481 Sep 02 18:00	8°♄24'01			7484 Mar 06 15:13	0°♍	
direct	7481 Sep 18 22:48	3°♄25'00			7484 Mar 30 13:47	0°♄	
greatest brilliancy	7481 Sep 28 17:45	5°♄08'31	-4.7m		7484 Apr 23 14:21	0°♄	
	7481 Nov 03 07:19	0°♄		asc. node	7484 May 14 17:56	26°♄11'45	
morning max el	7481 Nov 06 14:41	3°♄07'44	45°42'43		7484 May 17 20:06	0°♄	
asc. node	7481 Nov 27 23:54	25°♄00'45			7484 Jun 11 10:56	0°♄	
	7481 Dec 02 14:08	0°♌			7484 Jul 06 16:43	0°♄	
	7481 Dec 29 00:54	0°♌			7484 Aug 02 01:51	0°♄	
	7482 Jan 23 06:45	0°♄		evening max el	7484 Aug 27 23:40	26°♄57'30	45°41'30
	7482 Feb 16 21:29	0°♄			7484 Aug 31 04:19	0°♌	
	7482 Mar 13 03:39	0°♄		desc. node	7484 Sep 03 11:40	3°♌03'38	
desc. node	7482 Mar 19 16:35	8°♄08'12		greatest brilliancy	7484 Oct 05 20:13	25°♌11'07	-4.7m
	7482 Apr 06 04:47	0°♍		retrograde	7484 Oct 15 20:37	26°♌59'58	
	7482 Apr 30 03:20	0°♄		evening set	7484 Nov 03 00:05	20°♌49'35	
morning set	7482 May 09 23:20	12°♄20'10		inferior conj	7484 Nov 06 07:23	18°♌46'55	-8°28'35
	7482 May 24 01:32	0°♄		minimum elong	7484 Nov 06 11:13	18°♌40'54	8°28'17
	7482 Jun 17 01:20	0°♄		min. Earth dist.	7484 Nov 06 18:03	18°♌30'11	0.29021 AU
				morning rise	7484 Nov 09 22:14	16°♌32'35	
superior conj	7482 Jun 18 15:26	1°♄58'47	-0°50'12	direct	7484 Nov 27 19:50	10°♌28'23	
minimum elong	7482 Jun 19 01:43	2°♄30'49	0°49'52	greatest brilliancy	7484 Dec 08 17:26	12°♌38'48	-4.8m
max. Earth dist.	7482 Jun 22 06:18	6°♄29'30	1.72044 AU	asc. node	7484 Dec 25 11:38	22°♌25'31	
asc. node	7482 Jul 10 15:42	29°♄21'59			7485 Jan 03 18:10	0°♌	
	7482 Jul 11 03:57	0°♄		morning max el	7485 Jan 16 14:39	12°♌03'37	46°16'25
evening rise	7482 Jul 27 10:46	20°♄09'59			7485 Feb 02 18:25	0°♄	
	7482 Aug 04 09:50	0°♄			7485 Mar 01 05:08	0°♄	
	7482 Aug 28 19:19	0°♄			7485 Mar 26 09:40	0°♄	
	7482 Sep 22 09:27	0°♌		desc. node	7485 Apr 16 04:37	25°♌19'51	
	7482 Oct 17 06:09	0°♌			7485 Apr 19 23:54	0°♍	
desc. node	7482 Oct 30 08:53	15°♌38'51			7485 May 14 07:00	0°♄	
	7482 Nov 11 12:04	0°♄			7485 Jun 07 11:14	0°♄	
	7482 Dec 07 07:16	0°♄			7485 Jul 01 15:26	0°♄	
	7483 Jan 03 02:25	0°♄		morning set	7485 Jul 21 19:28	24°♄58'32	
evening max el	7483 Jan 22 10:51	20°♌13'35	46°42'29		7485 Jul 25 20:57	0°♄	
	7483 Feb 01 15:39	0°♍		asc. node	7485 Aug 07 03:35	15°♄10'29	
asc. node	7483 Feb 20 09:06	14°♍58'15			7485 Aug 19 03:48	0°♄	
greatest brilliancy	7483 Mar 03 22:44	20°♍56'11	-4.9m				
retrograde	7483 Mar 13 18:19	22°♍46'11		superior conj	7485 Aug 28 12:29	11°♍33'04	0°48'34
evening set	7483 Mar 30 18:31	17°♍11'21		minimum elong	7485 Aug 28 03:40	11°♍05'54	0°48'10
inferior conj	7483 Apr 03 10:07	14°♍58'47	8°32'03	max. Earth dist.	7485 Aug 29 15:45	12°♍57'10	1.73192 AU
minimum elong	7483 Apr 03 02:16	15°♍10'51	8°31'05		7485 Sep 12 11:36	0°♄	

evening rise	7485 Oct 03 22:36	26° Ω 25'30			7488 Mar 02 10:29	0° \approx	
	7485 Oct 06 20:21	0° \mathbb{M}		morning max el	7488 Mar 28 20:40	23° \approx 18'22	46°56'06
	7485 Oct 31 06:47	0° \mathcal{X}			7488 Apr 04 08:35	0° \mathcal{H}	
	7485 Nov 24 19:37	0° \mathcal{Z}			7488 May 01 11:32	0° \mathcal{Y}	
desc. node	7485 Nov 26 20:42	2° \mathcal{Z} 29'42		desc. node	7488 May 13 16:50	14° \mathcal{Y} 11'55	
	7485 Dec 19 11:13	0° \approx			7488 May 27 01:19	0° \mathcal{B}	
	7486 Jan 13 06:07	0° \mathcal{H}			7488 Jun 21 00:05	0° \mathbb{I}	
	7486 Feb 07 07:03	0° \mathcal{Y}			7488 Jul 15 16:44	0° \mathcal{G}	
	7486 Mar 04 22:43	0° \mathcal{B}			7488 Aug 09 07:03	0° Ω	
asc. node	7486 Mar 19 20:30	16° \mathcal{B} 44'29			7488 Sep 02 19:55	0° \mathbb{M}	
	7486 Apr 01 05:54	0° \mathbb{I}		asc. node	7488 Sep 03 15:38	1° \mathbb{M} 00'20	
evening max el	7486 Apr 05 09:31	4° \mathbb{I} 15'09	47°00'49		7488 Sep 27 06:59	0° \mathcal{A}	
	7486 May 05 10:30	0° \mathcal{G}		morning set	7488 Sep 29 00:22	2° \mathcal{A} 07'11	
greatest brilliancy	7486 May 15 15:06	5° \mathcal{G} 11'54	-4.9m		7488 Oct 21 15:59	0° \mathbb{M}	
retrograde	7486 May 25 22:57	7° \mathcal{G} 12'00		max. Earth dist.	7488 Nov 03 03:14	15° \mathbb{M} 22'55	1.73195 AU
evening set	7486 Jun 11 00:47	2° \mathcal{G} 07'16					
	7486 Jun 14 13:39	30° \mathcal{R} \mathbb{I}		superior conj	7488 Nov 04 12:33	17° \mathbb{M} 05'44	1°24'37
inferior conj	7486 Jun 15 20:01	29° \mathbb{I} 13'04	5°35'13	minimum elong	7488 Nov 04 15:41	17° \mathbb{M} 15'23	1°24'41
minimum elong	7486 Jun 16 06:27	28° \mathbb{I} 56'57	5°32'30		7488 Nov 14 23:24	0° \mathcal{X}	
min. Earth dist.	7486 Jun 15 18:19	29° \mathbb{I} 15'43	0.27506 AU		7488 Dec 09 05:59	0° \mathcal{Z}	
morning rise	7486 Jun 21 12:32	25° \mathbb{I} 50'16		evening rise	7488 Dec 11 17:29	3° \mathcal{Z} 03'54	
direct	7486 Jul 06 16:54	21° \mathbb{I} 20'51		desc. node	7488 Dec 24 08:32	18° \mathcal{Z} 40'55	
desc. node	7486 Jul 09 14:20	21° \mathbb{I} 30'40			7489 Jan 02 12:06	0° \approx	
greatest brilliancy	7486 Jul 16 11:06	23° \mathbb{I} 06'58	-4.8m		7489 Jan 26 17:42	0° \mathcal{H}	
	7486 Jul 29 17:25	0° \mathcal{G}			7489 Feb 19 23:16	0° \mathcal{Y}	
morning max el	7486 Aug 24 23:46	22° \mathcal{G} 02'55	45°58'04		7489 Mar 16 06:56	0° \mathcal{B}	
	7486 Sep 02 00:42	0° Ω			7489 Apr 09 21:22	0° \mathbb{I}	
	7486 Sep 30 02:41	0° \mathbb{M}		asc. node	7489 Apr 16 08:13	7° \mathbb{I} 45'54	
	7486 Oct 26 10:30	0° \mathcal{A}			7489 May 05 02:56	0° \mathcal{G}	
asc. node	7486 Oct 30 13:55	4° \mathcal{A} 49'50			7489 May 31 17:03	0° Ω	
	7486 Nov 20 20:09	0° \mathbb{M}		evening max el	7489 Jun 15 23:40	15° Ω 53'35	46°21'11
	7486 Dec 15 15:40	0° \mathcal{X}			7489 Jul 01 04:16	0° \mathbb{M}	
	7487 Jan 09 01:59	0° \mathcal{Z}		greatest brilliancy	7489 Jul 24 16:54	15° \mathbb{M} 21'22	-4.8m
	7487 Feb 02 06:22	0° \approx		retrograde	7489 Aug 04 18:31	17° \mathbb{M} 36'22	
desc. node	7487 Feb 19 06:24	21° \approx 13'18		desc. node	7489 Aug 06 02:01	17° \mathbb{M} 34'19	
morning set	7487 Feb 20 00:33	22° \approx 10'01		evening set	7489 Aug 20 04:45	12° \mathbb{M} 59'54	
	7487 Feb 26 06:46	0° \mathcal{H}		min. Earth dist.	7489 Aug 25 13:48	9° \mathbb{M} 46'12	0.28639 AU
	7487 Mar 22 04:29	0° \mathcal{Y}		inferior conj	7489 Aug 26 05:18	9° \mathbb{M} 21'55	-4°38'35
				minimum elong	7489 Aug 25 20:20	9° \mathbb{M} 35'57	4°36'21
superior conj	7487 Apr 01 21:21	13° \mathcal{Y} 27'26	-1°20'14	morning rise	7489 Aug 31 12:19	6° \mathbb{M} 09'08	
minimum elong	7487 Apr 01 12:23	12° \mathcal{Y} 59'13	1°20'06	direct	7489 Sep 16 13:40	1° \mathbb{M} 13'57	
max. Earth dist.	7487 Apr 01 12:31	12° \mathcal{Y} 59'40	1.71197 AU	greatest brilliancy	7489 Sep 26 09:40	2° \mathbb{M} 58'04	-4.7m
	7487 Apr 15 00:57	0° \mathcal{B}			7489 Nov 03 06:42	0° \mathcal{A}	
	7487 May 08 22:05	0° \mathbb{I}		morning max el	7489 Nov 04 05:28	0° \mathcal{A} 54'18	45°42'23
evening rise	7487 May 12 13:14	4° \mathbb{I} 33'09		asc. node	7489 Nov 27 01:56	24° \mathcal{A} 21'20	
	7487 Jun 01 21:58	0° \mathcal{G}			7489 Dec 02 06:03	0° \mathbb{M}	
asc. node	7487 Jun 12 05:49	12° \mathcal{G} 50'41			7489 Dec 28 14:22	0° \mathcal{X}	
	7487 Jun 26 02:24	0° Ω			7490 Jan 22 19:06	0° \mathcal{Z}	
	7487 Jul 20 13:06	0° \mathbb{M}			7490 Feb 16 09:16	0° \approx	
	7487 Aug 14 08:35	0° \mathcal{A}			7490 Mar 12 15:07	0° \mathcal{H}	
	7487 Sep 08 17:36	0° \mathbb{M}		desc. node	7490 Mar 18 18:28	7° \mathcal{H} 38'33	
desc. node	7487 Oct 01 23:10	26° \mathbb{M} 32'33			7490 Apr 05 16:04	0° \mathcal{Y}	
	7487 Oct 05 01:43	0° \mathcal{X}			7490 Apr 29 14:28	0° \mathcal{B}	
	7487 Nov 02 09:05	0° \mathcal{Z}		morning set	7490 May 07 10:44	9° \mathcal{B} 50'36	
evening max el	7487 Nov 08 14:19	6° \mathcal{Z} 04'58	45°52'44		7490 May 23 12:32	0° \mathbb{I}	
	7487 Dec 08 07:22	0° \approx					
greatest brilliancy	7487 Dec 18 00:50	4° \approx 32'24	-4.8m	superior conj	7490 Jun 16 04:52	29° \mathbb{I} 37'01	-0°53'11
retrograde	7487 Dec 27 12:31	6° \approx 11'02		minimum elong	7490 Jun 16 15:30	0° \mathcal{G} 10'11	0°52'52
evening set	7488 Jan 11 07:51	1° \approx 56'38			7490 Jun 16 12:14	0° \mathcal{G}	
	7488 Jan 14 17:13	30° \mathcal{R} \mathcal{Z}		max. Earth dist.	7490 Jun 19 17:08	3° \mathcal{G} 59'46	1.71994 AU
inferior conj	7488 Jan 17 09:37	28° \mathcal{Z} 21'26	-1°24'40	asc. node	7490 Jul 09 17:37	28° \mathcal{G} 54'12	
minimum elong	7488 Jan 17 12:49	28° \mathcal{Z} 16'29	1°23'34		7490 Jul 10 14:49	0° Ω	
min. Earth dist.	7488 Jan 18 00:16	27° \mathcal{Z} 58'48	0.27439 AU	evening rise	7490 Jul 25 02:37	17° Ω 57'02	
asc. node	7488 Jan 22 23:23	25° \mathcal{Z} 01'20			7490 Aug 03 20:45	0° \mathbb{M}	
morning rise	7488 Jan 23 17:04	24° \mathcal{Z} 37'03			7490 Aug 28 06:23	0° \mathcal{A}	
direct	7488 Feb 07 08:38	20° \mathcal{Z} 23'19			7490 Sep 21 20:50	0° \mathbb{M}	
greatest brilliancy	7488 Feb 18 03:59	22° \mathcal{Z} 34'16	-4.9m		7490 Oct 16 18:07	0° \mathcal{X}	

desc. node	7490 Oct 29 10:55	15°  08'06			7493 Jul 01 02:37	0° 	
	7490 Nov 11 00:59	0° 		morning set	7493 Jul 19 10:58	22°  43'57	
	7490 Dec 06 21:53	0° 			7493 Jul 25 07:56	0° 	
	7491 Jan 02 20:33	0° 		asc. node	7493 Aug 06 05:32	14°  42'45	
evening max el	7491 Jan 20 00:20	17°  49'58	46°41'00		7493 Aug 18 14:39	0° 	
	7491 Feb 01 21:18	0° 					
asc. node	7491 Feb 19 10:59	13°  30'11		superior conj	7493 Aug 26 05:24	9°  23'45	0°45'48
greatest brilliancy	7491 Mar 01 10:50	18°  28'00	-4.9m	minimum elong	7493 Aug 25 20:52	8°  57'26	0°45'23
retrograde	7491 Mar 11 07:26	20°  18'53		max. Earth dist.	7493 Aug 27 13:09	11°  20'43	1.73165 AU
evening set	7491 Mar 28 02:35	14°  50'24			7493 Sep 11 22:24	0° 	
inferior conj	7491 Mar 31 22:43	12°  31'27	8°22'30	evening rise	7493 Oct 01 16:29	24°  19'25	
minimum elong	7491 Mar 31 14:11	12°  44'32	8°21'21		7493 Oct 06 07:14	0° 	
min. Earth dist.	7491 Mar 31 15:12	12°  42'58	0.26989 AU		7493 Oct 30 17:51	0° 	
morning rise	7491 Apr 04 01:49	10°  37'28			7493 Nov 24 07:02	0° 	
direct	7491 Apr 21 12:11	4°  45'19		desc. node	7493 Nov 25 22:42	2°  30'52	
greatest brilliancy	7491 May 01 01:32	6°  29'05	-4.9m		7493 Dec 18 23:09	0° 	
	7491 Jun 03 08:12	0° 			7494 Jan 12 18:48	0° 	
morning max el	7491 Jun 10 19:41	7°  15'13	46°45'17		7494 Feb 06 20:55	0° 	
desc. node	7491 Jun 11 04:35	7°  37'26			7494 Mar 04 14:46	0° 	
	7491 Jul 02 09:42	0° 		asc. node	7494 Mar 18 22:36	16°  30'13	
	7491 Jul 28 23:04	0° 			7494 Apr 01 03:27	0° 	
	7491 Aug 23 15:13	0° 		evening max el	7494 Apr 03 00:07	1°  53'36	47°01'18
	7491 Sep 17 20:33	0° 			7494 May 07 01:07	0° 	
asc. node	7491 Oct 02 03:47	17°  20'11'33		greatest brilliancy	7494 May 13 06:29	2°  51'12	-4.9m
	7491 Oct 12 18:00	0° 		retrograde	7494 May 23 13:03	4°  59'47	
	7491 Nov 06 08:44	0° 			7494 Jun 08 04:49	30°  11'12	
	7491 Nov 30 18:04	0° 		evening set	7494 Jun 08 17:56	29°  41'12	
morning set	7491 Dec 07 13:57	8°  26'11		inferior conj	7494 Jun 13 09:50	26°  51'36	5°53'20
	7491 Dec 24 23:35	0° 		minimum elong	7494 Jun 13 20:29	26°  35'07	5°50'39
max. Earth dist.	7492 Jan 11 18:14	22°  30'548	1.72174 AU	min. Earth dist.	7494 Jun 13 08:27	26°  53'45	0.27479 AU
				morning rise	7494 Jun 18 23:25	23°  32'33	
superior conj	7492 Jan 14 12:14	25°  31'18	0°17'41	direct	7494 Jul 04 06:33	18°  59'59	
minimum elong	7492 Jan 14 16:25	25°  34'20	0°17'34	desc. node	7494 Jul 08 16:16	19°  52'28	
	7492 Jan 18 02:29	0° 		greatest brilliancy	7494 Jul 14 00:07	20°  45'25	-4.8m
desc. node	7492 Jan 21 20:24	4°  40'14			7494 Jul 30 15:46	0° 	
	7492 Feb 11 03:16	0° 		morning max el	7494 Aug 22 13:38	19°  54'43	45°59'21
evening rise	7492 Feb 23 02:20	14°  58'04			7494 Sep 01 20:41	0° 	
	7492 Mar 06 02:23	0° 			7494 Sep 29 17:43	0° 	
	7492 Mar 30 01:08	0° 			7494 Oct 25 23:29	0° 	
	7492 Apr 23 01:56	0° 		asc. node	7494 Oct 29 15:57	4°  18'21	
asc. node	7492 May 13 19:58	25°  41'25			7494 Nov 20 08:08	0° 	
	7492 May 17 08:02	0° 			7494 Dec 15 03:08	0° 	
	7492 Jun 10 23:28	0° 			7495 Jan 08 13:11	0° 	
	7492 Jul 06 06:21	0° 			7495 Feb 01 17:27	0° 	
	7492 Aug 01 17:59	0° 		morning set	7495 Feb 17 12:18	19°  42'05	
evening max el	7492 Aug 25 16:05	24°  47'47	45°42'09	desc. node	7495 Feb 18 08:25	20°  44'57	
	7492 Aug 31 04:27	0° 			7495 Feb 25 17:49	0° 	
desc. node	7492 Sep 02 13:40	2° 			7495 Mar 21 15:32	0° 	
greatest brilliancy	7492 Oct 03 10:17	22°  59'27	-4.7m	max. Earth dist.	7495 Mar 29 14:48	10°  01'12	1.71202 AU
retrograde	7492 Oct 13 12:40	24°  49'38					
evening set	7492 Oct 31 16:47	18°  37'53		superior conj	7495 Mar 30 08:06	10°  55'34	-1°18'33
inferior conj	7492 Nov 03 23:26	16°  35'56	-8°31'46	minimum elong	7495 Mar 29 22:27	10°  25'15	1°18'22
minimum elong	7492 Nov 04 02:32	16°  31'04	8°31'33		7495 Apr 14 12:00	0° 	
min. Earth dist.	7492 Nov 04 08:34	16°  21'36	0.29053 AU		7495 May 08 09:09	0° 	
morning rise	7492 Nov 07 12:13	14°  24'38		evening rise	7495 May 09 23:51	2°  01'20	
direct	7492 Nov 25 12:43	8° 			7495 Jun 01 09:04	0° 	
greatest brilliancy	7492 Dec 06 08:04	10°  25'49	-4.8m	asc. node	7495 Jun 11 07:42	12°  21'53	
asc. node	7492 Dec 24 13:35	21°  17'31			7495 Jun 25 13:38	0° 	
	7493 Jan 03 22:09	0° 			7495 Jul 20 00:39	0° 	
morning max el	7493 Jan 14 06:38	9°  49'46	46°14'41		7495 Aug 13 20:41	0° 	
	7493 Feb 02 11:46	0° 			7495 Sep 08 06:45	0° 	
	7493 Feb 28 19:29	0° 		desc. node	7495 Oct 01 01:16	25°  56'46	
	7493 Mar 25 22:38	0° 			7495 Oct 04 17:03	0° 	
desc. node	7493 Apr 15 06:46	24°  48'40			7495 Nov 02 06:13	0° 	
	7493 Apr 19 12:07	0° 		evening max el	7495 Nov 06 03:34	3°  46'32	45°51'28
	7493 May 13 18:44	0° 			7495 Dec 10 04:36	0° 	
	7493 Jun 06 22:39	0° 		greatest brilliancy	7495 Dec 15 15:15	2°  41'16	-4.8m

retrograde	7495 Dec 25 01:27	3°≈52'05		superior conj	7498 Jun 13 17:52	27°Ⅱ14'18	-0°56'07
	7496 Jan 08 04:22	30°Ⅴ3		minimum elong	7498 Jun 14 04:48	27°Ⅱ48'24	0°55'48
evening set	7496 Jan 08 23:20	29°334'53			7498 Jun 15 22:58	0°3	
inferior conj	7496 Jan 14 23:38	26°301'54	-1°46'53	max. Earth dist.	7498 Jun 17 03:42	1°329'36	1.71949 AU
minimum elong	7496 Jan 15 03:39	25°355'42	1°45'32	asc. node	7498 Jul 08 19:34	28°327'01	
min. Earth dist.	7496 Jan 15 15:37	25°337'12	0.27493 AU		7498 Jul 10 01:32	0°0	
morning rise	7496 Jan 21 07:07	22°317'08		evening rise	7498 Jul 22 18:01	15°043'12	
asc. node	7496 Jan 22 01:18	21°352'55			7498 Aug 03 07:29	0°Ⅲ	
direct	7496 Feb 04 22:37	18°302'38			7498 Aug 27 17:15	0°3	
greatest brilliancy	7496 Feb 15 20:22	20°315'31	-4.9m		7498 Sep 21 07:59	0°Ⅲ	
	7496 Mar 03 05:56	0°≈			7498 Oct 16 05:50	0°3	
morning max el	7496 Mar 26 10:14	20°≈54'39	46°55'22	desc. node	7498 Oct 28 12:54	14°37'57	
	7496 Apr 04 04:38	0°Ⅴ			7498 Nov 10 13:41	0°3	
	7496 May 01 03:01	0°Ⅴ			7498 Dec 06 12:21	0°≈	
desc. node	7496 May 12 18:47	13°Ⅴ35'24			7499 Jan 02 14:45	0°Ⅴ	
	7496 May 26 14:51	0°Ⅴ		evening max el	7499 Jan 17 14:56	15°Ⅴ30'29	46°39'31
	7496 Jun 20 12:32	0°Ⅱ			7499 Feb 02 04:36	0°Ⅴ	
	7496 Jul 15 04:28	0°3		asc. node	7499 Feb 18 13:06	12°Ⅴ00'56	
	7496 Aug 08 18:18	0°0		greatest brilliancy	7499 Feb 26 22:49	16°Ⅴ01'29	-4.9m
	7496 Sep 02 06:52	0°Ⅲ		retrograde	7499 Mar 08 20:57	17°Ⅴ53'19	
asc. node	7496 Sep 02 17:41	0°Ⅲ33'08		evening set	7499 Mar 25 10:56	12°Ⅴ31'24	
morning set	7496 Sep 26 17:35	29°Ⅲ59'32		inferior conj	7499 Mar 29 11:30	10°Ⅴ05'57	8°12'07
	7496 Sep 26 17:44	0°3		minimum elong	7499 Mar 29 02:23	10°Ⅴ19'57	8°10'46
	7496 Oct 21 02:39	0°Ⅲ		min. Earth dist.	7499 Mar 29 03:30	10°Ⅴ18'14	0.26977 AU
max. Earth dist.	7496 Oct 31 21:45	13°Ⅲ19'05	1.73216 AU	morning rise	7499 Apr 01 17:54	8°Ⅴ07'16	
				direct	7499 Apr 19 01:34	2°Ⅴ20'00	
superior conj	7496 Nov 02 06:11	14°Ⅲ59'10	1°25'06	greatest brilliancy	7499 Apr 28 14:06	4°Ⅴ03'31	-4.9m
minimum elong	7496 Nov 02 08:38	15°Ⅲ06'43	1°25'10		7499 Jun 03 09:46	0°Ⅴ	
	7496 Nov 14 10:04	0°3		morning max el	7499 Jun 08 10:13	4°Ⅴ55'14	46°46'27
	7496 Dec 08 16:45	0°3		desc. node	7499 Jun 10 06:34	6°Ⅴ46'35	
evening rise	7496 Dec 09 09:27	0°351'34			7499 Jul 02 02:35	0°Ⅱ	
desc. node	7496 Dec 23 10:28	18°313'11			7499 Jul 28 13:01	0°3	
	7497 Jan 01 23:03	0°≈			7499 Aug 23 03:41	0°0	
	7497 Jan 26 04:57	0°Ⅴ			7499 Sep 17 08:08	0°Ⅲ	
	7497 Feb 19 10:53	0°Ⅴ		asc. node	7499 Oct 01 05:48	16°Ⅲ43'43	
	7497 Mar 15 19:03	0°Ⅴ			7499 Oct 12 05:03	0°3	
	7497 Apr 09 10:18	0°Ⅱ			7499 Nov 05 19:27	0°Ⅲ	
asc. node	7497 Apr 15 10:12	7°Ⅱ12'12			7499 Nov 30 04:38	0°3	
	7497 May 04 17:22	0°3		morning set	7499 Dec 05 06:27	6°316'12	
	7497 May 31 10:57	0°0			7499 Dec 24 10:09	0°3	
evening max el	7497 Jun 13 14:14	13°036'14	46°23'05	max. Earth dist.	7500 Jan 09 08:06	19°346'38	1.72217 AU
	7497 Jul 01 12:05	0°Ⅲ					
greatest brilliancy	7497 Jul 22 08:46	13°Ⅲ08'55	-4.8m	superior conj	7500 Jan 12 02:16	23°312'31	0°21'12
retrograde	7497 Aug 02 10:44	15°Ⅲ24'46		minimum elong	7500 Jan 12 07:13	23°327'55	0°21'04
desc. node	7497 Aug 05 04:03	15°Ⅲ15'51			7500 Jan 17 13:07	0°≈	
evening set	7497 Aug 17 18:52	10°Ⅲ50'30		desc. node	7500 Jan 20 22:26	4°≈13'24	
min. Earth dist.	7497 Aug 23 05:41	7°Ⅲ34'44	0.28596 AU		7500 Feb 10 13:59	0°Ⅴ	
inferior conj	7497 Aug 23 21:08	7°Ⅲ10'36	-4°21'13	evening rise	7500 Feb 20 14:49	12°Ⅴ33'14	
minimum elong	7497 Aug 23 12:32	7°Ⅲ24'03	4°19'00		7500 Mar 06 13:12	0°Ⅴ	
morning rise	7497 Aug 29 06:36	3°Ⅲ54'40			7500 Mar 30 12:04	0°Ⅴ	
	7497 Sep 07 06:34	30°Ⅴ0			7500 Apr 23 13:05	0°Ⅱ	
direct	7497 Sep 14 04:39	29°003'03		asc. node	7500 May 13 21:53	25°Ⅱ12'05	
	7497 Sep 21 09:13	0°Ⅲ			7500 May 17 19:33	0°3	
greatest brilliancy	7497 Sep 24 01:20	0°Ⅲ47'49	-4.7m		7500 Jun 11 11:36	0°0	
morning max el	7497 Nov 01 21:08	28°Ⅲ43'44	45°42'07		7500 Jul 06 19:41	0°Ⅲ	
	7497 Nov 03 04:51	0°3			7500 Aug 02 10:01	0°3	
asc. node	7497 Nov 26 03:49	23°342'36		evening max el	7500 Aug 24 08:21	22°338'35	45°42'46
	7497 Dec 01 21:29	0°Ⅲ			7500 Sep 01 05:22	0°Ⅲ	
	7497 Dec 28 03:29	0°3		desc. node	7500 Sep 02 15:46	1°Ⅲ16'42	
	7498 Jan 22 07:09	0°3		greatest brilliancy	7500 Oct 02 01:09	20°Ⅲ49'47	-4.7m
	7498 Feb 15 20:46	0°≈		retrograde	7500 Oct 12 04:24	22°Ⅲ40'32	
	7498 Mar 12 02:20	0°Ⅴ		evening set	7500 Oct 30 09:18	16°Ⅲ28'09	
desc. node	7498 Mar 17 20:36	7°Ⅴ10'28		inferior conj	7500 Nov 02 15:37	14°Ⅲ26'28	-8°34'17
	7498 Apr 05 03:05	0°Ⅴ		minimum elong	7500 Nov 02 17:57	14°Ⅲ22'48	8°34'08
	7498 Apr 29 01:21	0°Ⅴ		min. Earth dist.	7500 Nov 02 23:25	14°Ⅲ14'12	0.29077 AU
morning set	7498 May 04 22:00	7°Ⅴ21'15		morning rise	7500 Nov 06 02:33	12°Ⅲ17'45	
	7498 May 22 23:20	0°Ⅱ		direct	7500 Nov 24 05:27	6°Ⅲ08'02	

greatest brilliancy	7500 Dec 04 22:50	8° \mathbb{M} 14'26	-4.8m	asc. node	7503 Jun 11 09:42	11° \mathbb{S} 54'17	
asc. node	7500 Dec 24 15:35	20° \mathbb{M} 12'51			7503 Jun 26 00:37	0° \mathcal{O}	
	7501 Jan 04 23:56	0° \mathcal{A}			7503 Jul 20 11:54	0° \mathbb{M}	
morning max el	7501 Jan 12 21:41	7° \mathcal{A} 35'05	46°12'56		7503 Aug 14 08:31	0° \mathcal{A}	
	7501 Feb 03 04:16	0° \mathcal{B}			7503 Sep 08 19:41	0° \mathbb{M}	
	7501 Mar 01 09:13	0° \approx		desc. node	7503 Oct 01 03:10	25° \mathbb{M} 21'00	
	7501 Mar 26 11:06	0° \mathcal{H}			7503 Oct 05 08:18	0° \mathcal{A}	
desc. node	7501 Apr 15 08:37	24° \mathcal{H} 18'00			7503 Nov 03 03:51	0° \mathcal{B}	
	7501 Apr 19 23:51	0° \mathcal{Y}		evening max el	7503 Nov 04 16:57	1° \mathcal{B} 29'17	45°50'14
	7501 May 14 06:00	0° \mathcal{B}		greatest brilliancy	7503 Dec 14 05:15	29° \mathcal{B} 56'31	-4.8m
	7501 Jun 07 09:36	0° \mathbb{I}			7503 Dec 14 09:28	0° \approx	
	7501 Jul 01 13:20	0° \mathcal{S}		retrograde	7503 Dec 23 15:00	1° \approx 34'16	
morning set	7501 Jul 18 02:40	20° \mathcal{S} 31'20			7504 Jan 01 12:13	30° \mathcal{R} \mathcal{B}	
	7501 Jul 25 18:28	0° \mathcal{O}		evening set	7504 Jan 07 15:03	27° \mathcal{B} 13'47	
asc. node	7501 Aug 06 07:35	14° \mathcal{O} 16'43		inferior conj	7504 Jan 13 13:44	23° \mathcal{B} 43'14	-2°08'50
	7501 Aug 19 01:05	0° \mathbb{M}		minimum elong	7504 Jan 13 18:31	23° \mathcal{B} 35'51	2°07'17
				min. Earth dist.	7504 Jan 14 06:45	23° \mathcal{B} 16'58	0.27549 AU
superior conj	7501 Aug 24 22:23	7° \mathbb{M} 15'56	0°42'58	morning rise	7504 Jan 19 21:07	19° \mathcal{B} 58'40	
minimum elong	7501 Aug 24 14:11	6° \mathbb{M} 50'38	0°42'33	asc. node	7504 Jan 22 03:23	18° \mathcal{B} 48'57	
max. Earth dist.	7501 Aug 26 09:34	9° \mathbb{M} 04'26	1.73141 AU	direct	7504 Feb 03 12:55	15° \mathcal{B} 42'50	
	7501 Sep 12 08:49	0° \mathcal{A}		greatest brilliancy	7504 Feb 14 12:37	17° \mathcal{B} 57'39	-4.9m
evening rise	7501 Sep 30 10:19	22° \mathcal{A} 14'24			7504 Mar 04 20:03	0° \approx	
	7501 Oct 06 17:45	0° \mathbb{M}		morning max el	7504 Mar 25 00:42	18° \approx 34'05	46°54'35
	7501 Oct 31 04:34	0° \mathcal{A}			7504 Apr 04 23:47	0° \mathcal{H}	
	7501 Nov 24 18:05	0° \mathcal{B}			7504 May 01 18:00	0° \mathcal{Y}	
desc. node	7501 Nov 26 00:35	1° \mathcal{B} 32'55		desc. node	7504 May 12 20:44	12° \mathcal{Y} 59'53	
	7501 Dec 19 10:42	0° \approx			7504 May 27 04:02	0° \mathcal{B}	
	7502 Jan 13 07:07	0° \mathcal{H}			7504 Jun 21 00:43	0° \mathbb{I}	
	7502 Feb 07 10:28	0° \mathcal{Y}			7504 Jul 15 16:00	0° \mathcal{S}	
	7502 Mar 05 06:39	0° \mathcal{B}			7504 Aug 09 05:23	0° \mathcal{O}	
asc. node	7502 Mar 19 00:36	15° \mathcal{B} 16'21		asc. node	7504 Sep 02 19:39	0° \mathbb{M} 06'12	
evening max el	7502 Apr 01 13:58	29° \mathcal{B} 31'13	47°01'39		7504 Sep 02 17:37	0° \mathbb{M}	
	7502 Apr 02 01:22	0° \mathbb{I}		morning set	7504 Sep 25 10:58	27° \mathbb{M} 52'57	
	7502 May 10 13:08	0° \mathcal{S}			7504 Sep 27 04:18	0° \mathcal{A}	
greatest brilliancy	7502 May 11 22:21	0° \mathcal{S} 32'14	-4.9m		7504 Oct 21 13:09	0° \mathbb{M}	
retrograde	7502 May 22 02:43	2° \mathcal{S} 29'03		max. Earth dist.	7504 Oct 30 18:25	11° \mathbb{M} 22'19	1.73238 AU
	7502 Jun 02 04:30	30° \mathcal{R} \mathbb{I}					
evening set	7502 Jun 07 11:13	27° \mathbb{I} 16'27		superior conj	7504 Oct 31 23:56	12° \mathbb{M} 53'22	1°25'28
inferior conj	7502 Jun 11 23:46	24° \mathbb{I} 31'41	6°10'51	minimum elong	7504 Nov 01 01:40	12° \mathbb{M} 58'46	1°25'32
minimum elong	7502 Jun 12 10:32	24° \mathbb{I} 14'59	6°08'13		7504 Nov 14 20:37	0° \mathcal{A}	
min. Earth dist.	7502 Jun 11 22:56	24° \mathbb{I} 32'58	0.27452 AU	evening rise	7504 Dec 08 01:28	28° \mathcal{A} 39'47	
morning rise	7502 Jun 17 10:10	21° \mathbb{I} 16'41			7504 Dec 09 03:26	0° \mathcal{B}	
direct	7502 Jul 02 19:50	16° \mathbb{I} 40'31		desc. node	7504 Dec 23 12:32	17° \mathcal{B} 46'07	
desc. node	7502 Jul 08 18:15	17° \mathbb{I} 20'46			7505 Jan 02 09:58	0° \approx	
greatest brilliancy	7502 Jul 12 13:42	18° \mathbb{I} 25'54	-4.8m		7505 Jan 26 16:09	0° \mathcal{H}	
	7502 Aug 01 07:36	0° \mathcal{S}			7505 Feb 19 22:27	0° \mathcal{Y}	
morning max el	7502 Aug 21 03:00	17° \mathcal{S} 26'27	46°00'42		7505 Mar 16 07:09	0° \mathcal{B}	
	7502 Sep 02 15:32	0° \mathcal{O}			7505 Apr 09 23:14	0° \mathbb{I}	
	7502 Sep 30 08:06	0° \mathbb{M}		asc. node	7505 Apr 15 12:06	6° \mathbb{I} 38'20	
	7502 Oct 26 12:02	0° \mathcal{A}			7505 May 05 07:56	0° \mathcal{S}	
asc. node	7502 Oct 29 17:48	3° \mathcal{A} 47'32			7505 Jun 01 05:18	0° \mathcal{O}	
	7502 Nov 20 19:45	0° \mathbb{M}		evening max el	7505 Jun 12 05:31	11° \mathcal{O} 20'41	46°24'54
	7502 Dec 15 14:15	0° \mathcal{A}			7505 Jul 02 22:53	0° \mathbb{M}	
	7503 Jan 09 00:03	0° \mathcal{B}		greatest brilliancy	7505 Jul 21 00:07	10° \mathbb{M} 55'28	-4.8m
	7503 Feb 02 04:11	0° \approx		retrograde	7505 Aug 01 03:13	13° \mathbb{M} 12'28	
morning set	7503 Feb 16 00:11	17° \approx 15'41		desc. node	7505 Aug 05 06:08	12° \mathbb{M} 51'50	
desc. node	7503 Feb 18 10:26	20° \approx 17'47		evening set	7505 Aug 16 08:59	8° \mathbb{M} 40'17	
	7503 Feb 26 04:31	0° \mathcal{H}		min. Earth dist.	7505 Aug 21 21:09	5° \mathbb{M} 22'53	0.28550 AU
	7503 Mar 22 02:15	0° \mathcal{Y}		inferior conj	7505 Aug 22 12:45	4° \mathbb{M} 58'34	-4°03'11
max. Earth dist.	7503 Mar 27 17:36	7° \mathcal{Y} 05'25	1.71215 AU	minimum elong	7505 Aug 22 04:34	5° \mathbb{M} 11'19	4°01'02
				morning rise	7505 Aug 28 00:37	1° \mathbb{M} 39'42	
superior conj	7503 Mar 28 18:54	8° \mathcal{Y} 24'57	-1°16'43		7505 Aug 31 04:41	30° \mathcal{R} \mathcal{O}	
minimum elong	7503 Mar 28 08:39	7° \mathcal{Y} 52'43	1°16'29	direct	7505 Sep 12 19:56	26° \mathcal{O} 51'33	
	7503 Apr 14 22:45	0° \mathcal{B}		greatest brilliancy	7505 Sep 22 16:18	28° \mathcal{O} 36'30	-4.7m
evening rise	7503 May 08 10:32	29° \mathcal{B} 30'34			7505 Sep 26 05:51	0° \mathbb{M}	
	7503 May 08 19:56	0° \mathbb{I}		morning max el	7505 Oct 31 13:09	26° \mathbb{M} 34'06	45°41'57
	7503 Jun 01 19:54	0° \mathcal{S}			7505 Nov 04 02:08	0° \mathcal{A}	

asc. node	7505 Nov 26 05:52	23°♊04'45		7508 Jun 11 00:13	0°♊	
	7505 Dec 02 12:39	0°♋		7508 Jul 06 09:33	0°♋	
	7505 Dec 28 16:32	0°♌		7508 Aug 02 02:48	0°♌	
	7506 Jan 22 19:14	0°♍	evening max el	7508 Aug 21 23:34	20°♌25'28	45°43'25
	7506 Feb 16 08:22	0°♎		7508 Sep 01 08:17	0°♋	
	7506 Mar 12 13:40	0°♏	desc. node	7508 Sep 01 17:39	0°♋20'26	
desc. node	7506 Mar 17 22:30	6°♏41'19	greatest brilliancy	7508 Sep 29 16:30	18°♋39'15	-4.7m
	7506 Apr 05 14:13	0°♐	retrograde	7508 Oct 09 19:46	20°♋30'12	
	7506 Apr 29 12:21	0°♑	evening set	7508 Oct 28 01:28	14°♋17'38	
morning set	7506 May 03 08:59	4°♑50'39	inferior conj	7508 Oct 31 07:45	12°♋15'50	-8°36'07
	7506 May 23 10:13	0°♒	minimum elong	7508 Oct 31 09:19	12°♋13'22	8°36'00
			min. Earth dist.	7508 Oct 31 14:34	12°♋05'05	0.29096 AU
superior conj	7506 Jun 12 06:36	24°♒50'19 -0°58'58	morning rise	7508 Nov 03 17:06	10°♋09'16	
minimum elong	7506 Jun 12 17:44	25°♒25'04 0°58'39	direct	7508 Nov 21 21:40	3°♋57'27	
max. Earth dist.	7506 Jun 15 16:48	29°♒06'55 1.71905 AU	greatest brilliancy	7508 Dec 02 14:04	6°♋02'25	-4.8m
	7506 Jun 16 09:48	0°♓	asc. node	7508 Dec 23 17:36	19°♋08'45	
asc. node	7506 Jul 08 21:38	27°♓59'48		7509 Jan 05 00:51	0°♌	
	7506 Jul 10 12:22	0°♍	morning max el	7509 Jan 10 11:48	5°♌17'03	46°11'24
evening rise	7506 Jul 21 09:18	13°♍28'31		7509 Feb 02 20:48	0°♍	
	7506 Aug 03 18:22	0°♎		7509 Feb 28 23:08	0°♎	
	7506 Aug 28 04:16	0°♏		7509 Mar 25 23:49	0°♏	
	7506 Sep 21 19:19	0°♐	desc. node	7509 Apr 14 10:35	23°♏46'38	
	7506 Oct 16 17:44	0°♑		7509 Apr 19 11:55	0°♐	
desc. node	7506 Oct 28 14:51	14°♑07'16		7509 May 13 17:41	0°♑	
	7506 Nov 11 02:37	0°♒		7509 Jun 06 21:00	0°♒	
	7506 Dec 07 03:09	0°♓		7509 Jul 01 00:30	0°♓	
	7507 Jan 03 09:39	0°♔	morning set	7509 Jul 15 17:52	18°♓15'36	
evening max el	7507 Jan 16 05:39	13°♔10'40 46°37'46		7509 Jul 25 05:27	0°♌	
	7507 Feb 03 15:04	0°♐	asc. node	7509 Aug 05 09:31	13°♌48'55	
asc. node	7507 Feb 18 15:03	10°♐26'57		7509 Aug 18 11:57	0°♍	
greatest brilliancy	7507 Feb 25 10:55	13°♐33'52 -4.9m				
retrograde	7507 Mar 07 09:57	15°♐25'57	superior conj	7509 Aug 22 15:01	5°♍05'41	0°40'01
evening set	7507 Mar 23 19:05	10°♐10'54	minimum elong	7509 Aug 22 07:12	4°♍41'33	0°39'38
min. Earth dist.	7507 Mar 27 15:48	7°♐51'34 0.26966 AU	max. Earth dist.	7509 Aug 24 04:26	7°♍01'06	1.73113 AU
inferior conj	7507 Mar 28 00:04	7°♐38'52 8°00'39		7509 Sep 11 19:40	0°♎	
minimum elong	7507 Mar 27 14:27	7°♐53'38 7°59'06	evening rise	7509 Sep 28 03:59	20°♎07'31	
morning rise	7507 Mar 31 09:55	5°♐35'04		7509 Oct 06 04:42	0°♏	
	7507 Apr 15 06:24	30°♑♏		7509 Oct 30 15:44	0°♑	
direct	7507 Apr 17 14:53	29°♑53'11		7509 Nov 24 05:35	0°♒	
	7507 Apr 19 23:56	0°♐	desc. node	7509 Nov 25 02:40	1°♒04'11	
greatest brilliancy	7507 Apr 27 02:37	1°♐36'17 -4.9m		7509 Dec 18 22:42	0°♓	
	7507 Jun 04 10:31	0°♑		7510 Jan 12 19:53	0°♔	
morning max el	7507 Jun 06 23:39	2°♑31'23 46°47'38		7510 Feb 07 00:31	0°♐	
desc. node	7507 Jun 10 08:38	5°♑55'50		7510 Mar 04 23:10	0°♑	
	7507 Jul 02 19:27	0°♒	asc. node	7510 Mar 18 02:29	14°♑30'32	
	7507 Jul 29 03:06	0°♓	evening max el	7510 Mar 30 02:36	27°♑04'39	47°01'49
	7507 Aug 23 16:21	0°♌		7510 Apr 02 00:38	0°♒	
	7507 Sep 17 19:57	0°♍	greatest brilliancy	7510 May 09 13:52	28°♒11'06	-4.9m
asc. node	7507 Oct 01 07:39	16°♍14'35		7510 May 17 08:02	0°♓	
	7507 Oct 12 16:21	0°♎	retrograde	7510 May 19 16:08	0°♓06'32	
	7507 Nov 06 06:26	0°♏		7510 May 21 23:43	30°♑♒	
	7507 Nov 30 15:29	0°♑	evening set	7510 Jun 05 04:22	24°♒49'22	
morning set	7507 Dec 03 23:12	4°♑06'11	inferior conj	7510 Jun 09 13:30	22°♒09'44	6°27'46
	7507 Dec 24 20:59	0°♒	minimum elong	7510 Jun 10 00:22	21°♒52'55	6°25'12
max. Earth dist.	7508 Jan 07 21:35	17°♒25'36 1.72259 AU	min. Earth dist.	7510 Jun 09 13:22	22°♒09'57	0.27432 AU
			morning rise	7510 Jun 14 20:35	18°♒59'13	
superior conj	7508 Jan 10 16:39	20°♒54'10 0°24'40	direct	7510 Jun 30 08:39	14°♒18'42	
minimum elong	7508 Jan 10 22:18	21°♒11'45 0°24'30	desc. node	7510 Jul 07 20:19	15°♒21'51	
	7508 Jan 17 24:00	0°♓	greatest brilliancy	7510 Jul 10 03:37	16°♒04'45	-4.8m
desc. node	7508 Jan 21 00:27	3°♓45'46		7510 Aug 01 20:14	0°♓	
	7508 Feb 11 00:58	0°♔	morning max el	7510 Aug 18 16:29	15°♓06'34	46°02'11
evening rise	7508 Feb 19 03:23	10°♔07'50		7510 Sep 02 10:30	0°♌	
	7508 Mar 06 00:20	0°♐		7510 Sep 29 22:50	0°♍	
	7508 Mar 29 23:24	0°♑		7510 Oct 26 00:57	0°♎	
	7508 Apr 23 00:41	0°♒	asc. node	7510 Oct 28 19:53	3°♎16'11	
asc. node	7508 May 12 23:53	24°♒41'43		7510 Nov 20 07:45	0°♏	
	7508 May 17 07:31	0°♓		7510 Dec 15 01:46	0°♑	

	7511 Jan 08 11:18	0°♁		desc. node	7513 Aug 04 08:00	10°♎23'12	
	7511 Feb 01 15:18	0°♊		evening set	7513 Aug 13 23:28	6°♎30'03	
morning set	7511 Feb 13 12:24	14°♊49'13		min. Earth dist.	7513 Aug 19 12:32	3°♎11'21	0.28507 AU
desc. node	7511 Feb 17 12:21	19°♊49'07		inferior conj	7513 Aug 20 04:28	2°♎46'31	-3°44'46
	7511 Feb 25 15:34	0°♋		minimum elong	7513 Aug 19 20:46	2°♎58'31	3°42'43
	7511 Mar 21 13:17	0°♌			7513 Aug 24 17:58	30°♎0	
max. Earth dist.	7511 Mar 24 23:39	4°♌18'54	1.71227 AU	morning rise	7513 Aug 25 18:39	29°♎24'48	
				direct	7513 Sep 10 11:49	24°♎40'14	
superior conj	7511 Mar 26 06:00	5°♌54'21	-1°14'43	greatest brilliancy	7513 Sep 20 06:55	26°♎24'37	-4.7m
minimum elong	7511 Mar 25 19:14	5°♌20'27	1°14'27		7513 Sep 28 07:14	0°♎	
	7511 Apr 14 09:47	0°♍		morning max el	7513 Oct 29 05:18	24°♎24'30	45°41'40
evening rise	7511 May 05 21:32	26°♍59'53			7513 Nov 03 22:49	0°♏	
	7511 May 08 07:00	0°♐		asc. node	7513 Nov 25 07:53	22°♏26'47	
	7511 Jun 01 07:03	0°♑			7513 Dec 02 03:45	0°♐	
asc. node	7511 Jun 10 11:45	11°♑25'48			7513 Dec 28 05:36	0°♑	
	7511 Jun 25 11:57	0°♒			7514 Jan 22 07:21	0°♒	
	7511 Jul 19 23:35	0°♓			7514 Feb 15 20:00	0°♓	
	7511 Aug 13 20:48	0°♑			7514 Mar 12 01:01	0°♋	
	7511 Sep 08 09:07	0°♌		desc. node	7514 Mar 17 00:25	6°♋11'59	
desc. node	7511 Sep 30 05:10	24°♌44'04			7514 Apr 05 01:24	0°♌	
	7511 Oct 05 00:13	0°♍			7514 Apr 28 23:23	0°♍	
evening max el	7511 Nov 02 06:48	29°♍12'12	45°49'10	morning set	7514 Apr 30 20:00	2°♍20'02	
	7511 Nov 03 02:51	0°♁			7514 May 22 21:08	0°♐	
greatest brilliancy	7511 Dec 11 18:39	27°♁37'14	-4.8m				
retrograde	7511 Dec 21 05:00	29°♁15'23		superior conj	7514 Jun 09 19:30	22°♐26'43	-1°01'42
evening set	7512 Jan 05 06:53	24°♁51'26		minimum elong	7514 Jun 10 06:45	23°♐01'51	1°01'24
inferior conj	7512 Jan 11 03:44	21°♁23'21	-2°30'37	max. Earth dist.	7514 Jun 13 07:39	26°♐49'36	1.71856 AU
minimum elong	7512 Jan 11 09:16	21°♁14'48	2°28'50		7514 Jun 15 20:39	0°♑	
min. Earth dist.	7512 Jan 11 21:27	20°♁56'02	0.27606 AU	asc. node	7514 Jul 07 23:32	27°♑32'14	
morning rise	7512 Jan 17 10:50	17°♁39'24			7514 Jul 09 23:09	0°♒	
asc. node	7512 Jan 21 05:21	15°♁47'59		evening rise	7514 Jul 19 00:46	11°♒14'26	
direct	7512 Feb 01 03:39	13°♁21'52			7514 Aug 03 05:11	0°♓	
greatest brilliancy	7512 Feb 12 04:14	15°♁38'00	-4.9m		7514 Aug 27 15:14	0°♑	
	7512 Mar 05 07:02	0°♊			7514 Sep 21 06:38	0°♌	
morning max el	7512 Mar 22 16:03	16°♊15'00	46°53'56		7514 Oct 16 05:41	0°♍	
	7512 Apr 04 18:45	0°♋		desc. node	7514 Oct 27 16:54	13°♍36'48	
	7512 May 01 09:01	0°♌			7514 Nov 10 15:38	0°♁	
desc. node	7512 May 11 22:49	12°♌24'23			7514 Dec 06 18:08	0°♊	
	7512 May 26 17:19	0°♍			7515 Jan 03 05:03	0°♋	
	7512 Jun 20 13:01	0°♐		evening max el	7515 Jan 13 19:57	10°♋49'58	46°35'59
	7512 Jul 15 03:42	0°♑			7515 Feb 04 05:00	0°♌	
	7512 Aug 08 16:40	0°♒		asc. node	7515 Feb 17 16:58	8°♌49'39	
asc. node	7512 Sep 01 21:33	29°♒38'16		greatest brilliancy	7515 Feb 22 23:37	11°♌07'19	-4.9m
	7512 Sep 02 04:39	0°♓		retrograde	7515 Mar 04 22:32	12°♌58'52	
morning set	7512 Sep 23 04:11	25°♓45'02		evening set	7515 Mar 21 03:20	7°♌50'51	
	7512 Sep 26 15:09	0°♑		min. Earth dist.	7515 Mar 25 04:31	5°♌24'49	0.26956 AU
	7512 Oct 20 23:55	0°♌		inferior conj	7515 Mar 25 12:43	5°♌12'13	7°48'13
max. Earth dist.	7512 Oct 28 15:41	9°♌26'39	1.73256 AU	minimum elong	7515 Mar 25 02:38	5°♌27'42	7°46'30
				morning rise	7515 Mar 29 02:02	3°♌03'07	
superior conj	7512 Oct 29 17:27	10°♌46'09	1°25'42		7515 Apr 03 22:02	30°♌♋	
minimum elong	7512 Oct 29 18:29	10°♌49'19	1°25'46	direct	7515 Apr 15 03:49	27°♌26'47	
	7512 Nov 14 07:24	0°♍		greatest brilliancy	7515 Apr 24 15:41	29°♌09'46	-4.9m
evening rise	7512 Dec 05 17:22	26°♍27'00			7515 Apr 26 20:21	0°♌	
	7512 Dec 08 14:21	0°♁			7515 Jun 04 10:03	0°♍	
desc. node	7512 Dec 22 14:29	17°♁18'00		morning max el	7515 Jun 04 12:15	0°♍05'32	46°48'52
	7513 Jan 01 21:07	0°♊		desc. node	7515 Jun 09 10:35	5°♍05'52	
	7513 Jan 26 03:36	0°♋			7515 Jul 02 11:55	0°♐	
	7513 Feb 19 10:17	0°♌			7515 Jul 28 16:54	0°♑	
	7513 Mar 15 19:30	0°♍			7515 Aug 23 04:45	0°♒	
	7513 Apr 09 12:26	0°♐			7515 Sep 17 07:32	0°♓	
asc. node	7513 Apr 14 14:11	6°♐04'24		asc. node	7515 Sep 30 09:44	15°♓46'48	
	7513 May 04 22:46	0°♑			7515 Oct 12 03:24	0°♑	
	7513 Jun 01 00:10	0°♒			7515 Nov 05 17:14	0°♌	
evening max el	7513 Jun 09 21:36	9°♒06'58	46°26'45		7515 Nov 30 02:11	0°♍	
	7513 Jul 03 13:23	0°♓		morning set	7515 Dec 01 15:56	1°♍56'36	
greatest brilliancy	7513 Jul 18 15:36	8°♓42'18	-4.8m		7515 Dec 24 07:41	0°♁	
retrograde	7513 Jul 29 19:52	11°♓00'09		max. Earth dist.	7516 Jan 05 10:25	15°♁03'00	1.72305 AU

superior conj	7516 Jan 08 07:04	18° Z 36'24	0°28'05	greatest brilliancy	7518 Jul 07 17:14	13° II 44'00	-4.8m
minimum elong	7516 Jan 08 13:22	18° Z 56'02	0°27'53		7518 Aug 02 05:12	0° G	
	7516 Jan 17 10:45	0° \approx		morning max el	7518 Aug 16 06:41	12° G 49'17	46°03'45
desc. node	7516 Jan 20 02:21	3° \approx 18'07			7518 Sep 02 04:34	0° Ω	
	7516 Feb 10 11:48	0° H			7518 Sep 29 13:00	0° M	
evening rise	7516 Feb 16 15:55	7° H 42'51			7518 Oct 25 13:23	0° Ω	
	7516 Mar 05 11:18	0° Y		asc. node	7518 Oct 27 21:51	2° Ω 45'49	
	7516 Mar 29 10:35	0° B			7518 Nov 19 19:16	0° M	
	7516 Apr 22 12:07	0° II			7518 Dec 14 12:48	0° X	
asc. node	7516 May 12 01:55	24° II 11'53			7519 Jan 07 22:05	0° Z	
	7516 May 16 19:21	0° G			7519 Feb 01 02:01	0° \approx	
	7516 Jun 10 12:42	0° Ω		morning set	7519 Feb 11 00:51	12° \approx 24'43	
	7516 Jul 05 23:20	0° M		desc. node	7519 Feb 16 14:21	19° \approx 21'52	
	7516 Aug 01 19:36	0° Ω			7519 Feb 25 02:17	0° H	
evening max el	7516 Aug 19 14:09	18° Ω 11'46	45°44'17		7519 Mar 21 00:01	0° Y	
desc. node	7516 Aug 31 19:41	29° Ω 24'26		max. Earth dist.	7519 Mar 22 07:43	1° Y 39'39	1.71247 AU
	7516 Sep 01 12:22	0° M					
greatest brilliancy	7516 Sep 27 07:59	16° M 30'19	-4.7m	superior conj	7519 Mar 23 16:51	3° Y 23'47	-1°12'34
retrograde	7516 Oct 07 11:22	18° M 21'48		minimum elong	7519 Mar 23 05:40	2° Y 48'36	1°12'16
evening set	7516 Oct 25 17:30	12° M 09'25			7519 Apr 13 20:33	0° B	
inferior conj	7516 Oct 29 00:08	10° M 07'03	-8°37'03	evening rise	7519 May 03 08:08	24° B 28'48	
minimum elong	7516 Oct 29 00:55	10° M 05'49	8°36'59		7519 May 07 17:47	0° II	
min. Earth dist.	7516 Oct 29 06:04	9° M 57'43	0.29117 AU		7519 May 31 17:56	0° G	
morning rise	7516 Nov 01 08:17	8° M 02'11		asc. node	7519 Jun 09 13:37	10° G 57'43	
direct	7516 Nov 19 13:40	1° M 48'34			7519 Jun 24 23:00	0° Ω	
greatest brilliancy	7516 Nov 30 06:01	3° M 52'49	-4.8m		7519 Jul 19 10:59	0° M	
asc. node	7516 Dec 22 19:32	18° M 07'11			7519 Aug 13 08:49	0° Ω	
	7517 Jan 05 00:11	0° X			7519 Sep 07 22:20	0° M	
morning max el	7517 Jan 08 02:03	3° X 00'18	46°09'46	desc. node	7519 Sep 29 07:15	24° M 08'06	
	7517 Feb 02 12:46	0° Z			7519 Oct 04 16:01	0° X	
	7517 Feb 28 12:42	0° \approx		evening max el	7519 Oct 30 21:45	26° X 59'16	45°48'17
	7517 Mar 25 12:14	0° H			7519 Nov 03 02:19	0° Z	
desc. node	7517 Apr 13 12:42	23° H 16'29		greatest brilliancy	7519 Dec 09 08:00	25° Z 20'05	-4.8m
	7517 Apr 18 23:42	0° Y		retrograde	7519 Dec 18 19:25	26° Z 58'41	
	7517 May 13 05:03	0° B		evening set	7520 Jan 02 23:09	22° Z 31'23	
	7517 Jun 06 08:05	0° II		inferior conj	7520 Jan 08 18:00	19° Z 05'43	-2°51'45
	7517 Jun 30 11:21	0° G		minimum elong	7520 Jan 09 00:14	18° Z 56'05	2°49'48
morning set	7517 Jul 13 08:54	16° G 00'10		min. Earth dist.	7520 Jan 09 12:01	18° Z 37'56	0.27663 AU
	7517 Jul 24 16:08	0° Ω		morning rise	7520 Jan 15 00:35	15° Z 22'37	
asc. node	7517 Aug 04 11:27	13° Ω 22'02		asc. node	7520 Jan 20 07:15	12° Z 54'07	
	7517 Aug 17 22:30	0° M		direct	7520 Jan 29 19:02	11° Z 03'28	
				greatest brilliancy	7520 Feb 09 19:22	13° Z 19'50	-4.9m
superior conj	7517 Aug 20 07:41	2° M 56'28	0°37'02		7520 Mar 05 14:26	0° \approx	
minimum elong	7517 Aug 20 00:18	2° M 33'39	0°36'39	morning max el	7520 Mar 20 07:41	13° \approx 58'01	46°52'51
max. Earth dist.	7517 Aug 21 21:16	4° M 52'27	1.73081 AU		7520 Apr 04 12:49	0° H	
	7517 Sep 11 06:11	0° Ω			7520 Apr 30 23:35	0° Y	
evening rise	7517 Sep 25 21:51	18° Ω 02'24		desc. node	7520 May 11 00:42	11° Y 49'14	
	7517 Oct 05 15:17	0° M			7520 May 26 06:16	0° B	
	7517 Oct 30 02:31	0° X			7520 Jun 20 01:03	0° II	
	7517 Nov 23 16:43	0° Z			7520 Jul 14 15:07	0° G	
desc. node	7517 Nov 24 04:39	0° Z 36'19			7520 Aug 08 03:41	0° Ω	
	7517 Dec 18 10:24	0° \approx		asc. node	7520 Aug 31 23:36	29° Ω 11'39	
	7518 Jan 12 08:26	0° H			7520 Sep 01 15:22	0° M	
	7518 Feb 06 14:26	0° Y		morning set	7520 Sep 20 21:13	23° M 37'24	
	7518 Mar 04 15:45	0° B			7520 Sep 26 01:42	0° Ω	
asc. node	7518 Mar 17 04:35	13° B 45'20			7520 Oct 20 10:23	0° M	
evening max el	7518 Mar 27 15:04	24° B 38'21	47°02'03	max. Earth dist.	7520 Oct 26 12:21	7° M 30'00	1.73268 AU
	7518 Apr 02 00:43	0° II					
greatest brilliancy	7518 May 07 04:49	25° II 49'48	-4.9m	superior conj	7520 Oct 27 10:59	8° M 39'49	1°25'49
retrograde	7518 May 17 05:49	27° II 44'36		minimum elong	7520 Oct 27 11:18	8° M 40'47	1°25'54
evening set	7518 Jun 02 21:24	22° II 22'31			7520 Nov 13 17:53	0° X	
inferior conj	7518 Jun 07 03:07	19° II 48'11	6°43'56	evening rise	7520 Dec 03 09:27	24° X 15'42	
minimum elong	7518 Jun 07 13:58	19° II 31'23	6°41'30		7520 Dec 08 00:58	0° Z	
min. Earth dist.	7518 Jun 07 03:25	19° II 47'42	0.27413 AU	desc. node	7520 Dec 21 16:24	16° Z 50'49	
morning rise	7518 Jun 12 06:42	16° II 42'41			7521 Jan 01 07:56	0° \approx	
direct	7518 Jun 27 21:24	11° II 57'08			7521 Jan 25 14:42	0° H	
desc. node	7518 Jul 06 22:14	13° II 28'05			7521 Feb 18 21:47	0° Y	

	7521 Mar 15 07:34	0°♄		7523 Aug 22 17:04	0°♋	
	7521 Apr 09 01:27	0°♊		7523 Sep 16 19:04	0°♎	
asc. node	7521 Apr 13 16:08	5°♊30'37	asc. node	7523 Sep 29 11:42	15°♎18'41	
	7521 May 04 13:36	0°♌		7523 Oct 11 14:28	0°♈	
	7521 May 31 19:27	0°♋		7523 Nov 05 04:02	0°♍	
evening max el	7521 Jun 07 13:47	6°♋53'40 46°28'28	morning set	7523 Nov 29 08:24	29°♍46'12	
	7521 Jul 04 08:55	0°♎		7523 Nov 29 12:52	0°♌	
greatest brilliancy	7521 Jul 16 07:35	6°♎29'31 -4.8m		7523 Dec 23 18:22	0°♍	
retrograde	7521 Jul 27 12:06	8°♎47'06	max. Earth dist.	7524 Jan 03 00:35	12°♍44'36 1.72350 AU	
desc. node	7521 Aug 03 10:01	7°♎48'52				
evening set	7521 Aug 11 13:52	4°♎19'16	superior conj	7524 Jan 05 21:26	16°♍18'34 0°31'27	
min. Earth dist.	7521 Aug 17 03:51	0°♎59'03 0.28459 AU	minimum elong	7524 Jan 06 04:22	16°♍40'08 0°31'14	
inferior conj	7521 Aug 17 19:54	0°♎34'00 -3°25'54		7524 Jan 16 21:30	0°♌	
minimum elong	7521 Aug 17 12:43	0°♎45'12 3°23'56	desc. node	7524 Jan 19 04:23	2°♌50'54	
	7521 Aug 18 17:45	30°♋♋		7524 Feb 09 22:39	0°♌	
morning rise	7521 Aug 23 12:17	27°♋09'25	evening rise	7524 Feb 14 04:36	5°♌18'28	
direct	7521 Sep 08 03:28	22°♋28'40		7524 Mar 04 22:17	0°♌	
greatest brilliancy	7521 Sep 17 21:03	24°♋12'02 -4.7m		7524 Mar 28 21:43	0°♄	
	7521 Sep 29 15:56	0°♎		7524 Apr 21 23:29	0°♊	
morning max el	7521 Oct 26 20:30	22°♎13'04 45°41'25	asc. node	7524 May 11 03:49	23°♊41'56	
	7521 Nov 03 18:37	0°♈		7524 May 16 07:06	0°♌	
asc. node	7521 Nov 24 09:46	21°♈49'21		7524 Jun 10 01:10	0°♋	
	7521 Dec 01 18:26	0°♍		7524 Jul 05 13:13	0°♎	
	7521 Dec 27 18:20	0°♌		7524 Aug 01 12:51	0°♈	
	7522 Jan 21 19:10	0°♍	evening max el	7524 Aug 17 04:23	15°♈56'47 45°45'03	
	7522 Feb 15 07:20	0°♌	desc. node	7524 Aug 30 21:45	28°♈26'39	
	7522 Mar 11 12:04	0°♌		7524 Sep 01 18:48	0°♍	
desc. node	7522 Mar 16 02:31	5°♌44'14	greatest brilliancy	7524 Sep 24 22:57	14°♍19'50 -4.7m	
	7522 Apr 04 12:17	0°♌	retrograde	7524 Oct 05 03:05	16°♍12'29	
morning set	7522 Apr 28 07:06	29°♌50'27	evening set	7524 Oct 23 08:55	10°♍00'35	
	7522 Apr 28 10:09	0°♄	inferior conj	7524 Oct 26 16:20	7°♍57'12 -8°37'13	
	7522 May 22 07:51	0°♊	minimum elong	7524 Oct 26 16:19	7°♍57'14 8°37'10	
			min. Earth dist.	7524 Oct 26 21:21	7°♍49'19 0.29136 AU	
superior conj	7522 Jun 07 08:07	20°♊02'44 -1°04'20	morning rise	7524 Oct 29 23:37	5°♍53'42	
minimum elong	7522 Jun 07 19:24	20°♊37'58 1°04'03		7524 Nov 12 23:09	30°♋♈	
max. Earth dist.	7522 Jun 10 22:00	24°♊31'07 1.71813 AU	direct	7524 Nov 17 05:19	29°♈38'28	
	7522 Jun 15 07:20	0°♌		7524 Nov 21 13:45	0°♍	
asc. node	7522 Jul 07 01:30	27°♌05'10	greatest brilliancy	7524 Nov 27 22:01	1°♍42'34 -4.8m	
	7522 Jul 09 09:50	0°♋	asc. node	7524 Dec 21 21:34	17°♍06'38	
evening rise	7522 Jul 16 15:33	8°♋58'32		7525 Jan 04 22:45	0°♌	
	7522 Aug 02 15:54	0°♎	morning max el	7525 Jan 05 16:52	0°♌44'34 46°08'16	
	7522 Aug 27 02:08	0°♈		7525 Feb 02 04:37	0°♍	
	7522 Sep 20 17:53	0°♍		7525 Feb 28 02:15	0°♌	
	7522 Oct 15 17:35	0°♌		7525 Mar 25 00:42	0°♌	
desc. node	7522 Oct 26 18:50	13°♌06'10	desc. node	7525 Apr 12 14:33	22°♌45'21	
	7522 Nov 10 04:41	0°♍		7525 Apr 18 11:32	0°♌	
	7522 Dec 06 09:15	0°♌		7525 May 12 16:29	0°♄	
	7523 Jan 03 00:54	0°♌		7525 Jun 05 19:12	0°♊	
evening max el	7523 Jan 11 09:31	8°♌27'58 46°34'18		7525 Jun 29 22:14	0°♌	
	7523 Feb 04 23:14	0°♌	morning set	7525 Jul 11 00:11	13°♌45'16	
asc. node	7523 Feb 16 19:05	7°♌09'40		7525 Jul 24 02:51	0°♋	
greatest brilliancy	7523 Feb 20 13:04	8°♌42'32 -4.9m	asc. node	7525 Aug 03 13:30	12°♋55'19	
retrograde	7523 Mar 02 10:54	10°♌33'00		7525 Aug 17 09:10	0°♎	
evening set	7523 Mar 18 11:52	5°♌31'49				
min. Earth dist.	7523 Mar 22 17:47	2°♌58'52 0.26943 AU	superior conj	7525 Aug 18 00:26	0°♎47'09 0°34'00	
inferior conj	7523 Mar 23 01:31	2°♌46'57 7°35'04	minimum elong	7525 Aug 17 17:30	0°♎25'46 0°33'37	
minimum elong	7523 Mar 22 15:04	3°♌03'03 7°33'09	max. Earth dist.	7525 Aug 19 14:23	2°♎44'17 1.73056 AU	
morning rise	7523 Mar 26 18:20	0°♌32'29		7525 Sep 10 16:52	0°♈	
	7523 Mar 27 16:49	30°♋♌	evening rise	7525 Sep 23 15:43	15°♈56'47	
direct	7523 Apr 12 16:14	25°♌01'34		7525 Oct 05 02:05	0°♍	
greatest brilliancy	7523 Apr 22 05:26	26°♌45'09 -4.9m		7525 Oct 29 13:32	0°♌	
	7523 Apr 29 09:29	0°♌	desc. node	7525 Nov 23 06:32	0°♍07'22	
morning max el	7523 Jun 02 00:14	27°♌38'42 46°49'56		7525 Nov 23 04:07	0°♍	
	7523 Jun 04 08:17	0°♄		7525 Dec 17 22:23	0°♌	
desc. node	7523 Jun 08 12:33	4°♄17'35		7526 Jan 11 21:18	0°♌	
	7523 Jul 02 03:54	0°♊		7526 Feb 06 04:45	0°♌	
	7523 Jul 28 06:29	0°♌		7526 Mar 04 08:55	0°♄	

asc. node	7526 Mar 16 06:33	12°♄58'25			7528 Oct 19 21:08	0°♍	
evening max el	7526 Mar 25 04:29	22°♄13'52	47°02'21	max. Earth dist.	7528 Oct 24 09:02	5°♍32'37	1.73282 AU
	7526 Apr 02 02:17	0°♈					
greatest brilliancy	7526 May 04 19:17	23°♈27'27	-4.9m	superior conj	7528 Oct 25 04:54	6°♍33'53	1°25'49
retrograde	7526 May 14 20:05	25°♈22'22		minimum elong	7528 Oct 25 04:31	6°♍32'42	1°25'53
evening set	7526 May 31 14:32	19°♈55'08			7528 Nov 13 04:42	0°♈	
inferior conj	7526 Jun 04 16:46	17°♈26'10	6°59'29	evening rise	7528 Dec 01 01:46	22°♈04'04	
minimum elong	7526 Jun 05 03:33	17°♈09'31	6°57'11		7528 Dec 07 11:57	0°♄	
min. Earth dist.	7526 Jun 04 17:07	17°♈25'38	0.27391 AU	desc. node	7528 Dec 20 18:29	16°♄22'59	
morning rise	7526 Jun 09 16:43	14°♈26'11			7528 Dec 31 19:11	0°♈	
direct	7526 Jun 25 10:36	9°♈35'16			7529 Jan 25 02:16	0°♈	
greatest brilliancy	7526 Jul 05 06:14	11°♈22'23	-4.8m		7529 Feb 18 09:44	0°♈	
desc. node	7526 Jul 06 00:15	11°♈38'34			7529 Mar 14 20:06	0°♄	
	7526 Aug 02 11:44	0°♄			7529 Apr 08 14:59	0°♈	
morning max el	7526 Aug 13 21:46	10°♄33'56	46°05'19	asc. node	7529 Apr 12 18:03	4°♈55'23	
	7526 Sep 01 22:19	0°♈			7529 May 04 05:03	0°♄	
	7526 Sep 29 03:11	0°♈			7529 May 31 15:45	0°♈	
	7526 Oct 25 01:59	0°♄		evening max el	7529 Jun 05 05:38	4°♈38'20	46°30'11
asc. node	7526 Oct 26 23:43	2°♄14'32			7529 Jul 05 12:23	0°♈	
	7526 Nov 19 07:04	0°♍		greatest brilliancy	7529 Jul 14 00:24	4°♈16'46	-4.8m
	7526 Dec 14 00:09	0°♈		retrograde	7529 Jul 25 04:02	6°♈33'15	
	7527 Jan 07 09:13	0°♄		desc. node	7529 Aug 02 12:07	5°♈08'56	
	7527 Jan 31 13:02	0°♈		evening set	7529 Aug 09 04:37	2°♈07'36	
morning set	7527 Feb 08 13:16	9°♈59'19			7529 Aug 12 19:43	30°♈00	
desc. node	7527 Feb 15 16:22	18°♈53'45		inferior conj	7529 Aug 15 11:29	28°♈20'57	-3°06'41
	7527 Feb 24 13:17	0°♈		minimum elong	7529 Aug 15 04:53	28°♈31'16	3°04'51
max. Earth dist.	7527 Mar 19 17:52	29°♈06'00	1.71265 AU	min. Earth dist.	7529 Aug 14 19:42	28°♈45'37	0.28407 AU
	7527 Mar 20 11:03	0°♈		morning rise	7529 Aug 21 05:53	24°♈53'27	
				direct	7529 Sep 05 18:52	20°♈16'36	
superior conj	7527 Mar 21 03:35	0°♈51'58	-1°10'16	greatest brilliancy	7529 Sep 15 11:36	21°♈59'06	-4.7m
minimum elong	7527 Mar 20 16:04	0°♈15'48	1°09'55		7529 Sep 30 15:38	0°♈	
	7527 Apr 13 07:36	0°♄		morning max el	7529 Oct 24 11:00	19°♈59'15	45°41'21
evening rise	7527 Apr 30 18:46	21°♄56'49			7529 Nov 03 14:03	0°♄	
	7527 May 07 04:53	0°♈		asc. node	7529 Nov 23 11:49	21°♄12'03	
	7527 May 31 05:06	0°♄			7529 Dec 01 09:09	0°♍	
asc. node	7527 Jun 08 15:38	10°♄29'11			7529 Dec 27 07:16	0°♈	
	7527 Jun 24 10:20	0°♈			7530 Jan 21 07:18	0°♄	
	7527 Jul 18 22:38	0°♈			7530 Feb 14 19:03	0°♈	
	7527 Aug 12 21:06	0°♄			7530 Mar 10 23:32	0°♈	
	7527 Sep 07 11:53	0°♍		desc. node	7530 Mar 15 04:26	5°♈14'30	
desc. node	7527 Sep 28 09:09	23°♍30'31			7530 Apr 03 23:34	0°♈	
	7527 Oct 04 08:23	0°♈		morning set	7530 Apr 25 17:46	27°♈18'12	
evening max el	7527 Oct 28 13:17	24°♈46'46	45°47'08		7530 Apr 27 21:19	0°♄	
	7527 Nov 03 03:26	0°♄			7530 May 21 18:55	0°♈	
greatest brilliancy	7527 Dec 06 21:32	23°♄01'53	-4.8m				
retrograde	7527 Dec 16 09:30	24°♄40'20		superior conj	7530 Jun 04 20:32	17°♈37'00	-1°06'52
evening set	7527 Dec 31 15:30	20°♄09'51		minimum elong	7530 Jun 05 07:45	18°♈12'04	1°06'36
inferior conj	7528 Jan 06 08:10	16°♄46'37	-3°12'36	max. Earth dist.	7530 Jun 08 10:47	22°♈06'37	1.71764 AU
minimum elong	7528 Jan 06 15:03	16°♄35'59	3°10'30		7530 Jun 14 18:21	0°♄	
min. Earth dist.	7528 Jan 07 02:31	16°♄18'17	0.27721 AU	asc. node	7530 Jul 06 03:34	26°♄37'26	
morning rise	7528 Jan 12 13:58	13°♄04'27			7530 Jul 08 20:50	0°♈	
asc. node	7528 Jan 19 09:21	10°♄03'09		evening rise	7530 Jul 14 06:15	6°♈41'14	
direct	7528 Jan 27 10:22	8°♄43'44			7530 Aug 02 02:58	0°♈	
greatest brilliancy	7528 Feb 07 10:07	10°♄59'41	-4.9m		7530 Aug 26 13:21	0°♄	
	7528 Mar 05 20:14	0°♈			7530 Sep 20 05:28	0°♍	
morning max el	7528 Mar 17 22:45	11°♈38'22	46°51'47		7530 Oct 15 05:48	0°♈	
	7528 Apr 04 06:55	0°♈		desc. node	7530 Oct 25 20:50	12°♈34'56	
	7528 Apr 30 14:20	0°♈			7530 Nov 09 18:02	0°♄	
desc. node	7528 May 10 02:42	11°♈13'33			7530 Dec 06 00:47	0°♈	
	7528 May 25 19:28	0°♄			7531 Jan 02 21:41	0°♈	
	7528 Jun 19 13:21	0°♈		evening max el	7531 Jan 08 22:15	6°♈03'14	46°32'22
	7528 Jul 14 02:50	0°♄			7531 Feb 06 00:41	0°♈	
	7528 Aug 07 14:59	0°♈		asc. node	7531 Feb 15 21:01	5°♈24'10	
asc. node	7528 Aug 31 01:33	28°♈43'52		greatest brilliancy	7531 Feb 18 02:30	6°♈16'19	-4.9m
	7528 Sep 01 02:22	0°♈		retrograde	7531 Feb 27 22:56	8°♈05'50	
morning set	7528 Sep 18 14:40	21°♈30'16		evening set	7531 Mar 15 20:18	3°♈10'51	
	7528 Sep 25 12:31	0°♄		inferior conj	7531 Mar 20 14:14	0°♈20'12	7°20'51

minimum elong	7531 Mar 20 03:29	0° Υ 36'44	7°18'44		7533 Aug 16 19:54	0° \mathfrak{M}	
min. Earth dist.	7531 Mar 20 07:16	0° Υ 30'55	0.26939 AU	max. Earth dist.	7533 Aug 17 08:27	0° \mathfrak{M} 38'47	1.73026 AU
	7531 Mar 21 03:21	30° \mathfrak{K}			7533 Sep 10 03:35	0° \mathfrak{L}	
morning rise	7531 Mar 24 10:39	28° \mathfrak{K} 00'18		evening rise	7533 Sep 21 09:29	13° \mathfrak{L} 50'46	
direct	7531 Apr 10 04:22	22° \mathfrak{K} 34'26			7533 Oct 04 12:54	0° \mathfrak{M}	
greatest brilliancy	7531 Apr 19 19:47	24° \mathfrak{K} 19'33	-4.9m		7533 Oct 29 00:34	0° \mathfrak{J}	
	7531 May 01 01:01	0° Υ		desc. node	7533 Nov 22 08:39	29° \mathfrak{J} 39'10	
morning max el	7531 May 30 12:28	25° Υ 10'58	46°51'09		7533 Nov 22 15:31	0° \mathfrak{Z}	
	7531 Jun 04 06:13	0° \mathfrak{B}			7533 Dec 17 10:20	0° \approx	
desc. node	7531 Jun 07 14:37	3° \mathfrak{B} 28'56			7534 Jan 11 10:07	0° \mathfrak{K}	
	7531 Jul 01 20:01	0° \mathfrak{I}			7534 Feb 05 19:03	0° Υ	
	7531 Jul 27 20:15	0° \mathfrak{G}			7534 Mar 04 02:13	0° \mathfrak{B}	
	7531 Aug 22 05:34	0° \mathfrak{Q}		asc. node	7534 Mar 15 08:28	12° \mathfrak{B} 11'09	
	7531 Sep 16 06:48	0° \mathfrak{M}		evening max el	7534 Mar 22 18:47	19° \mathfrak{B} 52'15	47°02'23
asc. node	7531 Sep 28 13:34	14° \mathfrak{M} 49'36			7534 Apr 02 05:05	0° \mathfrak{I}	
	7531 Oct 11 01:43	0° \mathfrak{L}		greatest brilliancy	7534 May 02 09:06	21° \mathfrak{I} 04'29	-4.9m
	7531 Nov 04 15:00	0° \mathfrak{M}		retrograde	7534 May 12 10:32	22° \mathfrak{I} 59'46	
morning set	7531 Nov 27 01:26	27° \mathfrak{M} 37'04		evening set	7534 May 29 07:35	17° \mathfrak{I} 27'21	
	7531 Nov 28 23:43	0° \mathfrak{J}		inferior conj	7534 Jun 02 06:16	15° \mathfrak{I} 03'39	7°14'21
	7531 Dec 23 05:11	0° \mathfrak{Z}		minimum elong	7534 Jun 02 16:55	14° \mathfrak{I} 47'15	7°12'10
max. Earth dist.	7531 Dec 31 18:00	10° \mathfrak{Z} 35'54	1.72395 AU	min. Earth dist.	7534 Jun 02 06:23	15° \mathfrak{I} 03'29	0.27377 AU
				morning rise	7534 Jun 07 02:25	12° \mathfrak{I} 09'24	
superior conj	7532 Jan 03 12:26	14° \mathfrak{Z} 02'19	0°34'42	direct	7534 Jun 23 00:15	7° \mathfrak{I} 12'59	
minimum elong	7532 Jan 03 19:56	14° \mathfrak{Z} 25'38	0°34'28	greatest brilliancy	7534 Jul 02 18:45	8° \mathfrak{I} 59'42	-4.8m
	7532 Jan 16 08:22	0° \approx		desc. node	7534 Jul 05 02:18	9° \mathfrak{I} 52'49	
desc. node	7532 Jan 18 06:24	2° \approx 23'18			7534 Aug 02 16:21	0° \mathfrak{G}	
	7532 Feb 09 09:39	0° \mathfrak{K}		morning max el	7534 Aug 11 13:13	8° \mathfrak{G} 19'08	46°06'48
evening rise	7532 Feb 11 17:48	2° \mathfrak{K} 55'20			7534 Sep 01 15:44	0° \mathfrak{Q}	
	7532 Mar 04 09:27	0° Υ			7534 Sep 28 17:12	0° \mathfrak{M}	
	7532 Mar 28 09:07	0° \mathfrak{B}			7534 Oct 24 14:26	0° \mathfrak{L}	
	7532 Apr 21 11:10	0° \mathfrak{I}		asc. node	7534 Oct 26 01:48	1° \mathfrak{L} 44'13	
asc. node	7532 May 10 05:51	23° \mathfrak{I} 11'25			7534 Nov 18 18:40	0° \mathfrak{M}	
	7532 May 15 19:11	0° \mathfrak{G}			7534 Dec 13 11:18	0° \mathfrak{J}	
	7532 Jun 09 13:59	0° \mathfrak{Q}			7535 Jan 06 20:08	0° \mathfrak{Z}	
	7532 Jul 05 03:31	0° \mathfrak{M}			7535 Jan 30 23:52	0° \approx	
	7532 Aug 01 06:44	0° \mathfrak{L}		morning set	7535 Feb 06 02:13	7° \approx 36'13	
evening max el	7532 Aug 14 19:08	13° \mathfrak{L} 42'37	45°46'06	desc. node	7535 Feb 14 18:17	18° \approx 25'57	
desc. node	7532 Aug 29 23:38	27° \mathfrak{L} 26'41			7535 Feb 24 00:05	0° \mathfrak{K}	
	7532 Sep 02 03:56	0° \mathfrak{M}		max. Earth dist.	7535 Mar 17 03:29	26° \mathfrak{K} 31'36	1.71280 AU
greatest brilliancy	7532 Sep 22 13:28	12° \mathfrak{M} 08'45	-4.7m				
retrograde	7532 Oct 02 19:24	14° \mathfrak{M} 03'18		superior conj	7535 Mar 18 14:48	28° \mathfrak{K} 22'31	-1°07'50
evening set	7532 Oct 21 00:12	7° \mathfrak{M} 52'09		minimum elong	7535 Mar 18 03:04	27° \mathfrak{K} 45'41	1°07'27
inferior conj	7532 Oct 24 08:39	5° \mathfrak{M} 47'25	-8°36'46		7535 Mar 19 21:49	0° Υ	
minimum elong	7532 Oct 24 07:51	5° \mathfrak{M} 48'40	8°36'42		7535 Apr 12 18:23	0° \mathfrak{B}	
min. Earth dist.	7532 Oct 24 12:30	5° \mathfrak{M} 41'21	0.29151 AU	evening rise	7535 Apr 28 05:43	19° \mathfrak{B} 26'38	
morning rise	7532 Oct 27 15:25	3° \mathfrak{M} 44'52			7535 May 06 15:43	0° \mathfrak{I}	
	7532 Nov 03 15:04	30° \mathfrak{R} \mathfrak{L}			7535 May 30 16:03	0° \mathfrak{G}	
direct	7532 Nov 14 21:22	27° \mathfrak{L} 28'29		asc. node	7535 Jun 07 17:41	10° \mathfrak{G} 01'24	
greatest brilliancy	7532 Nov 25 13:52	29° \mathfrak{L} 32'25	-4.8m		7535 Jun 23 21:31	0° \mathfrak{Q}	
	7532 Nov 26 18:25	0° \mathfrak{M}			7535 Jul 18 10:11	0° \mathfrak{M}	
asc. node	7532 Dec 20 23:34	16° \mathfrak{M} 07'29			7535 Aug 12 09:19	0° \mathfrak{L}	
morning max el	7533 Jan 03 08:46	28° \mathfrak{M} 31'49	46°06'54		7535 Sep 07 01:25	0° \mathfrak{M}	
	7533 Jan 04 20:23	0° \mathfrak{J}		desc. node	7535 Sep 27 11:10	22° \mathfrak{M} 53'25	
	7533 Feb 01 20:10	0° \mathfrak{Z}			7535 Oct 04 00:54	0° \mathfrak{J}	
	7533 Feb 27 15:40	0° \approx		evening max el	7535 Oct 26 04:35	22° \mathfrak{J} 34'25	45°46'10
	7533 Mar 24 13:05	0° \mathfrak{K}			7535 Nov 03 05:38	0° \mathfrak{Z}	
desc. node	7533 Apr 11 16:32	22° \mathfrak{K} 14'37		greatest brilliancy	7535 Dec 04 11:45	20° \mathfrak{Z} 45'43	-4.8m
	7533 Apr 17 23:23	0° Υ		retrograde	7535 Dec 13 23:14	22° \mathfrak{Z} 23'22	
	7533 May 12 03:59	0° \mathfrak{B}		evening set	7535 Dec 29 08:08	17° \mathfrak{Z} 49'41	
	7533 Jun 05 06:27	0° \mathfrak{I}		inferior conj	7536 Jan 03 22:32	14° \mathfrak{Z} 29'09	-3°33'01
	7533 Jun 29 09:15	0° \mathfrak{G}		minimum elong	7536 Jan 04 06:01	14° \mathfrak{Z} 17'33	3°30'46
morning set	7533 Jul 08 14:56	11° \mathfrak{G} 28'09		min. Earth dist.	7536 Jan 04 17:24	13° \mathfrak{Z} 59'55	0.27777 AU
	7533 Jul 23 13:41	0° \mathfrak{Q}		morning rise	7536 Jan 10 03:16	10° \mathfrak{Z} 47'56	
asc. node	7533 Aug 02 15:25	12° \mathfrak{Q} 27'51		asc. node	7536 Jan 18 11:17	7° \mathfrak{Z} 18'48	
				direct	7536 Jan 25 01:33	6° \mathfrak{Z} 25'36	
superior conj	7533 Aug 15 16:43	28° \mathfrak{Q} 36'03	0°30'51	greatest brilliancy	7536 Feb 05 01:17	8° \mathfrak{Z} 41'15	-4.8m
minimum elong	7533 Aug 15 10:18	28° \mathfrak{Q} 16'14	0°30'30		7536 Mar 05 23:39	0° \approx	

morning max el	7536 Mar 15 13:09	9°≈18'09	46°50'45		7538 Oct 14 17:43	0°♊	
	7536 Apr 04 00:11	0°♋		desc. node	7538 Oct 24 22:52	12°♊04'40	
	7536 Apr 30 04:30	0°♌			7538 Nov 09 07:09	0°♋	
desc. node	7536 May 09 04:46	10°♌39'29			7538 Dec 05 16:13	0°≈	
	7536 May 25 08:09	0°♍			7539 Jan 02 18:48	0°♋	
	7536 Jun 19 01:11	0°♎		evening max el	7539 Jan 06 10:50	3°♋39'23	46°30'41
	7536 Jul 13 14:09	0°♏			7539 Feb 07 11:34	0°♌	
	7536 Aug 07 01:56	0°♐		asc. node	7539 Feb 14 22:57	3°♌35'41	
asc. node	7536 Aug 30 03:28	28°♐16'52		greatest brilliancy	7539 Feb 15 15:28	3°♌50'51	-4.9m
	7536 Aug 31 13:05	0°♑		retrograde	7539 Feb 25 11:15	5°♌40'14	
morning set	7536 Sep 16 07:49	19°♑22'58		evening set	7539 Mar 13 04:54	0°♌50'46	
	7536 Sep 24 23:04	0°♒			7539 Mar 14 16:10	30°♒♋	
	7536 Oct 19 07:37	0°♓		inferior conj	7539 Mar 18 02:57	27°♋54'42	7°05'44
max. Earth dist.	7536 Oct 22 03:14	3°♓28'25	1.73292 AU	minimum elong	7539 Mar 17 16:00	28°♋11'31	7°03'28
				min. Earth dist.	7539 Mar 17 20:34	28°♋04'30	0.26936 AU
superior conj	7536 Oct 22 22:34	4°♓28'02	1°25'42	morning rise	7539 Mar 22 03:02	25°♋29'36	
minimum elong	7536 Oct 22 21:28	4°♓24'37	1°25'45	direct	7539 Apr 07 16:41	20°♋08'26	
	7536 Nov 12 15:13	0°♊		greatest brilliancy	7539 Apr 17 10:02	21°♋55'18	-4.9m
evening rise	7536 Nov 28 17:51	19°♊52'47			7539 May 02 04:00	0°♌	
	7536 Dec 06 22:37	0°♋		morning max el	7539 May 28 01:43	22°♌47'03	46°52'18
desc. node	7536 Dec 19 20:26	15°♋55'45			7539 Jun 04 02:53	0°♍	
	7536 Dec 31 06:05	0°≈		desc. node	7539 Jun 06 16:35	2°♍41'58	
	7537 Jan 24 13:29	0°♋			7539 Jul 01 11:27	0°♎	
	7537 Feb 17 21:22	0°♌			7539 Jul 27 09:29	0°♏	
	7537 Mar 14 08:20	0°♍			7539 Aug 21 17:35	0°♐	
	7537 Apr 08 04:12	0°♎			7539 Sep 15 18:04	0°♑	
asc. node	7537 Apr 11 20:09	4°♎21'45		asc. node	7539 Sep 27 15:40	14°♑22'30	
	7537 May 03 20:14	0°♏			7539 Oct 10 12:34	0°♒	
	7537 May 31 12:09	0°♐			7539 Nov 04 01:38	0°♓	
evening max el	7537 Jun 02 20:34	2°♐21'59	46°31'49	morning set	7539 Nov 24 18:17	25°♓28'20	
	7537 Jul 07 02:48	0°♑			7539 Nov 28 10:16	0°♊	
greatest brilliancy	7537 Jul 11 17:23	2°♑05'24	-4.8m		7539 Dec 22 15:45	0°♋	
retrograde	7537 Jul 22 19:28	4°♑20'37		max. Earth dist.	7539 Dec 29 11:31	8°♋28'21	1.72439 AU
desc. node	7537 Aug 01 13:58	2°♑25'32					
evening set	7537 Aug 06 19:29	29°♑56'42		superior conj	7540 Jan 01 03:08	11°♋45'56	0°37'56
	7537 Aug 06 17:04	30°♒♐		minimum elong	7540 Jan 01 11:09	12°♋10'50	0°37'40
min. Earth dist.	7537 Aug 12 11:53	26°♒32'50	0.28362 AU		7540 Jan 15 19:00	0°≈	
inferior conj	7537 Aug 13 03:03	26°♒09'07	-2°47'02	desc. node	7540 Jan 17 08:18	1°≈56'06	
minimum elong	7537 Aug 12 21:04	26°♒18'28	2°45'22		7540 Feb 08 20:23	0°♋	
morning rise	7537 Aug 18 23:21	22°♒38'42		evening rise	7540 Feb 09 06:42	0°♋32'13	
direct	7537 Sep 03 09:45	18°♒05'27			7540 Mar 03 20:21	0°♌	
greatest brilliancy	7537 Sep 13 02:50	19°♒47'47	-4.7m		7540 Mar 27 20:13	0°♍	
	7537 Oct 01 08:35	0°♑			7540 Apr 20 22:33	0°♎	
morning max el	7537 Oct 22 01:08	17°♑45'18	45°41'17	asc. node	7540 May 09 07:51	22°♎41'38	
	7537 Nov 03 08:37	0°♒			7540 May 15 07:01	0°♏	
asc. node	7537 Nov 22 13:49	20°♒35'43			7540 Jun 09 02:36	0°♐	
	7537 Nov 30 23:24	0°♓			7540 Jul 04 17:41	0°♑	
	7537 Dec 26 19:49	0°♊			7540 Aug 01 00:42	0°♒	
	7538 Jan 20 19:01	0°♋		evening max el	7540 Aug 12 10:49	11°♒31'42	45°47'14
	7538 Feb 14 06:20	0°≈		desc. node	7540 Aug 29 01:43	26°♒26'41	
	7538 Mar 10 10:33	0°♋			7540 Sep 02 15:45	0°♓	
desc. node	7538 Mar 14 06:22	4°♋46'15		greatest brilliancy	7540 Sep 20 03:24	9°♓58'07	-4.7m
	7538 Apr 03 10:26	0°♌		retrograde	7540 Sep 30 12:03	11°♓55'02	
morning set	7538 Apr 23 04:21	24°♌46'55		evening set	7540 Oct 18 15:08	5°♓45'09	
	7538 Apr 27 08:04	0°♍		inferior conj	7540 Oct 22 00:55	3°♓38'28	-8°35'28
	7538 May 21 05:36	0°♎		minimum elong	7540 Oct 21 23:22	3°♓40'54	8°35'22
				min. Earth dist.	7540 Oct 22 03:15	3°♓34'48	0.29165 AU
superior conj	7538 Jun 02 09:05	15°♎12'55	-1°09'16	morning rise	7540 Oct 25 07:34	1°♓36'19	
minimum elong	7538 Jun 02 20:08	15°♎47'31	1°09'01		7540 Oct 28 01:19	30°♓♒	
max. Earth dist.	7538 Jun 05 20:44	19°♎34'30	1.71714 AU	direct	7540 Nov 12 13:57	25°♒19'31	
	7538 Jun 14 04:57	0°♏		greatest brilliancy	7540 Nov 23 05:07	27°♒22'36	-4.8m
asc. node	7538 Jul 05 05:27	26°♏10'33			7540 Nov 29 01:31	0°♓	
	7538 Jul 08 07:24	0°♐		asc. node	7540 Dec 20 01:31	15°♓10'11	
evening rise	7538 Jul 11 21:01	4°♐25'28		morning max el	7541 Jan 01 01:15	26°♓21'15	46°05'20
	7538 Aug 01 13:34	0°♑			7541 Jan 04 17:02	0°♊	
	7538 Aug 26 00:10	0°♒			7541 Feb 01 11:21	0°♋	
	7538 Sep 19 16:41	0°♓			7541 Feb 27 04:51	0°≈	

	7541 Mar 24 01:19	0° H			7543 Nov 03 09:29	0° Z	
desc. node	7541 Apr 10 18:39	21° H 44'48		greatest brilliancy	7543 Dec 02 02:30	18° Z 30'24	-4.8m
	7541 Apr 17 11:02	0° Y		retrograde	7543 Dec 11 12:38	20° Z 07'01	
	7541 May 11 15:15	0° B		evening set	7543 Dec 27 01:03	15° Z 29'51	
	7541 Jun 04 17:27	0° II		inferior conj	7544 Jan 01 13:07	12° Z 12'18	-3°52'47
	7541 Jun 28 20:03	0° G		minimum elong	7544 Jan 01 21:09	11° Z 59'51	3°50'25
morning set	7541 Jul 06 05:39	9° G 11'27		min. Earth dist.	7544 Jan 02 08:42	11° Z 41'55	0.27834 AU
	7541 Jul 23 00:21	0° O		morning rise	7544 Jan 07 16:34	8° Z 32'16	
asc. node	7541 Aug 01 17:23	12° O 01'04		asc. node	7544 Jan 17 13:14	4° Z 40'05	
				direct	7544 Jan 22 16:31	4° Z 07'57	
superior conj	7541 Aug 13 08:58	26° O 25'20	0°27'40	greatest brilliancy	7544 Feb 02 17:06	6° Z 23'52	-4.8m
minimum elong	7541 Aug 13 03:07	26° O 07'15	0°27'20		7544 Mar 06 01:38	0° \approx	
max. Earth dist.	7541 Aug 15 03:49	28° O 37'41	1.72995 AU	morning max el	7544 Mar 13 02:41	6° \approx 55'19	46°49'29
	7541 Aug 16 06:29	0° P			7544 Apr 03 17:18	0° H	
	7541 Sep 09 14:10	0° U			7544 Apr 29 18:47	0° Y	
evening rise	7541 Sep 19 03:22	11° U 45'35		desc. node	7544 May 08 06:39	10° Y 04'16	
	7541 Oct 03 23:33	0° M			7544 May 24 21:04	0° B	
	7541 Oct 28 11:26	0° A			7544 Jun 18 13:18	0° II	
desc. node	7541 Nov 21 10:37	29° A 10'56			7544 Jul 13 01:43	0° G	
	7541 Nov 22 02:47	0° Z			7544 Aug 06 13:07	0° O	
	7541 Dec 16 22:15	0° \approx		asc. node	7544 Aug 29 05:31	27° O 49'40	
	7542 Jan 10 23:01	0° H			7544 Aug 30 23:59	0° P	
	7542 Feb 05 09:32	0° Y		morning set	7544 Sep 14 00:51	17° P 14'41	
	7542 Mar 03 19:59	0° B			7544 Sep 24 09:48	0° U	
asc. node	7542 Mar 14 10:35	11° B 23'25			7544 Oct 18 18:18	0° M	
evening max el	7542 Mar 20 09:49	17° B 32'14	47°02'25	max. Earth dist.	7544 Oct 19 20:24	1° M 20'28	1.73302 AU
	7542 Apr 02 09:42	0° II					
greatest brilliancy	7542 Apr 29 22:56	18° II 41'20	-4.9m	superior conj	7544 Oct 20 16:22	2° M 22'00	1°25'26
retrograde	7542 May 10 00:50	20° II 36'33		minimum elong	7544 Oct 20 14:34	2° M 16'26	1°25'30
evening set	7542 May 27 00:34	14° II 59'20			7544 Nov 12 01:58	0° A	
inferior conj	7542 May 30 19:40	12° II 40'46	7°28'27	evening rise	7544 Nov 26 10:15	17° A 41'55	
minimum elong	7542 May 31 06:05	12° II 24'43	7°26'26		7544 Dec 06 09:31	0° Z	
min. Earth dist.	7542 May 30 19:23	12° II 41'12	0.27356 AU	desc. node	7544 Dec 18 22:21	15° Z 27'47	
morning rise	7542 Jun 04 11:47	9° II 52'22			7544 Dec 30 17:12	0° \approx	
direct	7542 Jun 20 14:00	4° II 50'36			7545 Jan 24 00:55	0° H	
greatest brilliancy	7542 Jun 30 06:47	6° II 36'16	-4.8m		7545 Feb 17 09:14	0° Y	
desc. node	7542 Jul 04 04:14	8° II 10'49			7545 Mar 13 20:52	0° B	
	7542 Aug 02 19:11	0° G			7545 Apr 07 17:52	0° II	
morning max el	7542 Aug 09 04:04	6° G 02'56	46°08'16	asc. node	7545 Apr 10 22:05	3° II 46'23	
	7542 Sep 01 08:43	0° O			7545 May 03 12:05	0° G	
	7542 Sep 28 07:02	0° P			7545 May 31 09:51	0° O	
	7542 Oct 24 02:46	0° U		evening max el	7545 May 31 10:40	0° O 02'01	46°33'26
asc. node	7542 Oct 25 03:46	1° U 13'46		greatest brilliancy	7545 Jul 09 10:13	29° O 51'58	-4.8m
	7542 Nov 18 06:12	0° M			7545 Jul 09 18:37	0° P	
	7542 Dec 12 22:25	0° A		retrograde	7545 Jul 20 10:39	2° P 06'15	
	7543 Jan 06 07:03	0° Z			7545 Jul 30 16:39	30° R 0	
	7543 Jan 30 10:43	0° \approx		desc. node	7545 Jul 31 16:01	29° O 35'24	
morning set	7543 Feb 03 15:10	5° \approx 13'05		evening set	7545 Aug 04 10:18	27° O 43'30	
desc. node	7543 Feb 13 20:19	17° \approx 58'21		min. Earth dist.	7545 Aug 10 04:06	24° O 17'58	0.28314 AU
	7543 Feb 23 10:57	0° H		inferior conj	7545 Aug 10 18:28	23° O 55'32	-2°27'02
max. Earth dist.	7543 Mar 14 09:23	23° H 45'07	1.71301 AU	minimum elong	7545 Aug 10 13:08	24° O 03'53	2°25'32
				morning rise	7545 Aug 16 16:32	20° O 22'29	
superior conj	7543 Mar 16 01:44	25° H 51'49	-1°05'15	direct	7545 Sep 01 00:08	15° O 52'25	
minimum elong	7543 Mar 15 13:54	25° H 14'41	1°04'51	greatest brilliancy	7545 Sep 10 18:24	17° O 35'24	-4.7m
	7543 Mar 19 08:44	0° Y			7545 Oct 01 21:44	0° P	
	7543 Apr 12 05:20	0° B		morning max el	7545 Oct 19 15:16	15° P 30'21	45°41'23
evening rise	7543 Apr 25 16:06	16° B 54'04			7545 Nov 03 03:02	0° U	
	7543 May 06 02:42	0° II		asc. node	7545 Nov 21 15:43	19° U 58'31	
	7543 May 30 03:09	0° G			7545 Nov 30 13:47	0° M	
asc. node	7543 Jun 06 19:33	9° G 32'41			7545 Dec 26 08:34	0° A	
	7543 Jun 23 08:48	0° O			7546 Jan 20 06:59	0° Z	
	7543 Jul 17 21:51	0° P			7546 Feb 13 17:52	0° \approx	
	7543 Aug 11 21:42	0° U			7546 Mar 09 21:50	0° H	
	7543 Sep 06 15:11	0° M		desc. node	7546 Mar 13 08:27	4° H 17'39	
desc. node	7543 Sep 26 13:15	22° M 15'46			7546 Apr 02 21:33	0° Y	
	7543 Oct 03 17:49	0° A		morning set	7546 Apr 20 15:05	22° Y 15'08	
evening max el	7543 Oct 23 19:18	20° A 20'26	45°45'15		7546 Apr 26 19:06	0° B	

	7546 May 20 16:36	0°♄		minimum elong	7548 Oct 19 14:53	1°♄31'59	8°33'19
				min. Earth dist.	7548 Oct 19 17:51	1°♄27'20	0.29173 AU
superior conj	7546 May 30 21:31	12°♄47'17 -1°11'32			7548 Oct 22 01:50	30°♄	
minimum elong	7546 May 31 08:21	13°♄21'11 1°11'19		morning rise	7548 Oct 22 23:58	29°♄26'07	
max. Earth dist.	7546 Jun 03 04:28	16°♄54'19 1.71674 AU		direct	7548 Nov 10 06:47	23°♄09'41	
	7546 Jun 13 15:56	0°♄		greatest brilliancy	7548 Nov 20 19:48	25°♄11'09	-4.7m
asc. node	7546 Jul 04 07:27	25°♄42'41			7548 Nov 30 13:28	0°♄	
	7546 Jul 07 18:22	0°♄		asc. node	7548 Dec 19 03:32	14°♄13'19	
evening rise	7546 Jul 09 11:23	2°♄07'11		morning max el	7548 Dec 29 17:31	24°♄09'28	46°03'45
	7546 Aug 01 00:37	0°♄			7549 Jan 04 13:18	0°♄	
	7546 Aug 25 11:24	0°♄			7549 Feb 01 02:35	0°♄	
	7546 Sep 19 04:18	0°♄			7549 Feb 26 18:11	0°♄	
	7546 Oct 14 06:03	0°♄			7549 Mar 23 13:44	0°♄	
desc. node	7546 Oct 24 00:48	11°♄32'54		desc. node	7549 Apr 09 20:28	21°♄13'20	
	7546 Nov 08 20:46	0°♄			7549 Apr 16 22:55	0°♄	
	7546 Dec 05 08:17	0°♄			7549 May 11 02:46	0°♄	
	7547 Jan 02 17:08	0°♄			7549 Jun 04 04:40	0°♄	
evening max el	7547 Jan 04 00:10	1°♄16'39 46°29'03			7549 Jun 28 07:03	0°♄	
	7547 Feb 09 17:16	0°♄		morning set	7549 Jul 03 20:38	6°♄54'57	
greatest brilliancy	7547 Feb 13 04:03	1°♄24'22 -4.9m			7549 Jul 22 11:12	0°♄	
asc. node	7547 Feb 14 01:04	1°♄42'23		asc. node	7549 Jul 31 19:26	11°♄34'00	
retrograde	7547 Feb 23 00:18	3°♄14'20					
	7547 Mar 07 17:12	30°♄		superior conj	7549 Aug 11 01:19	24°♄14'10	0°24'27
evening set	7547 Mar 10 13:47	28°♄29'58		minimum elong	7549 Aug 10 20:05	23°♄57'57	0°24'08
inferior conj	7547 Mar 15 15:47	25°♄28'42 6°49'49		max. Earth dist.	7549 Aug 13 01:05	26°♄41'43	1.72965 AU
minimum elong	7547 Mar 15 04:42	25°♄45'40 6°47'26			7549 Aug 15 17:16	0°♄	
min. Earth dist.	7547 Mar 15 09:42	25°♄38'01 0.26933 AU			7549 Sep 09 00:58	0°♄	
morning rise	7547 Mar 19 19:33	22°♄58'34		evening rise	7549 Sep 16 21:14	9°♄39'33	
direct	7547 Apr 05 05:37	17°♄42'05			7549 Oct 03 10:28	0°♄	
greatest brilliancy	7547 Apr 14 23:55	19°♄30'12 -4.9m			7549 Oct 27 22:36	0°♄	
	7547 May 03 00:00	0°♄		desc. node	7549 Nov 20 12:30	28°♄41'41	
morning max el	7547 May 25 15:50	20°♄24'38 46°53'19			7549 Nov 21 14:21	0°♄	
	7547 Jun 03 23:10	0°♄			7549 Dec 16 10:27	0°♄	
desc. node	7547 Jun 05 18:33	1°♄54'59			7550 Jan 10 12:12	0°♄	
	7547 Jul 01 02:58	0°♄			7550 Feb 05 00:24	0°♄	
	7547 Jul 26 22:58	0°♄			7550 Mar 03 14:24	0°♄	
	7547 Aug 21 05:57	0°♄		asc. node	7550 Mar 13 12:31	10°♄33'44	
	7547 Sep 15 05:45	0°♄		evening max el	7550 Mar 18 00:36	15°♄10'51	47°02'12
asc. node	7547 Sep 26 17:37	13°♄53'40			7550 Apr 02 16:41	0°♄	
	7547 Oct 09 23:48	0°♄		greatest brilliancy	7550 Apr 27 13:13	16°♄17'57	-4.9m
	7547 Nov 03 12:37	0°♄		retrograde	7550 May 07 14:40	18°♄12'23	
morning set	7547 Nov 22 11:09	23°♄18'42		evening set	7550 May 24 17:31	12°♄30'41	
	7547 Nov 27 21:09	0°♄		inferior conj	7550 May 28 09:02	10°♄17'12	7°41'47
	7547 Dec 22 02:37	0°♄		minimum elong	7550 May 28 19:07	10°♄01'38	7°39'57
max. Earth dist.	7547 Dec 27 05:42	6°♄21'55 1.72482 AU		min. Earth dist.	7550 May 28 08:32	10°♄17'59	0.27334 AU
				morning rise	7550 Jun 01 20:55	7°♄34'42	
superior conj	7547 Dec 29 17:59	9°♄29'04 0°41'04		direct	7550 Jun 18 03:30	2°♄27'40	
minimum elong	7547 Dec 30 02:26	9°♄55'21 0°40'48		greatest brilliancy	7550 Jun 27 18:58	4°♄12'15	-4.8m
	7548 Jan 15 05:57	0°♄		desc. node	7550 Jul 03 06:14	6°♄32'02	
desc. node	7548 Jan 16 10:20	1°♄28'20			7550 Aug 02 20:43	0°♄	
evening rise	7548 Feb 06 19:52	28°♄08'53		morning max el	7550 Aug 06 17:56	3°♄43'49	46°09'50
	7548 Feb 08 07:28	0°♄			7550 Sep 01 01:27	0°♄	
	7548 Mar 03 07:36	0°♄			7550 Sep 27 20:50	0°♄	
	7548 Mar 27 07:39	0°♄			7550 Oct 23 15:09	0°♄	
	7548 Apr 20 10:14	0°♄		asc. node	7550 Oct 24 05:39	0°♄42'48	
asc. node	7548 May 08 09:46	22°♄10'44			7550 Nov 17 17:51	0°♄	
	7548 May 14 19:09	0°♄			7550 Dec 12 09:39	0°♄	
	7548 Jun 08 15:33	0°♄			7551 Jan 05 18:05	0°♄	
	7548 Jul 04 08:19	0°♄			7551 Jan 29 21:40	0°♄	
	7548 Jul 31 19:32	0°♄		morning set	7551 Feb 01 04:12	2°♄49'57	
evening max el	7548 Aug 10 03:14	9°♄21'28 45°48'14		desc. node	7551 Feb 12 22:19	17°♄30'28	
desc. node	7548 Aug 28 03:44	25°♄23'52			7551 Feb 22 21:54	0°♄	
	7548 Sep 03 08:27	0°♄		max. Earth dist.	7551 Mar 11 13:53	20°♄54'14	1.71326 AU
greatest brilliancy	7548 Sep 17 17:37	7°♄46'37 -4.7m					
retrograde	7548 Sep 28 04:45	9°♄45'22		superior conj	7551 Mar 13 12:48	23°♄21'31	-1°02'33
evening set	7548 Oct 16 05:48	3°♄37'36		minimum elong	7551 Mar 13 00:59	22°♄44'25	1°02'07
inferior conj	7548 Oct 19 17:12	1°♄28'21 -8°33'27			7551 Mar 18 19:41	0°♄	

	7551 Apr 11 16:20	0°♄		asc. node	7553 Nov 20 17:46	19°♌22'44	
evening rise	7551 Apr 23 02:35	14°♄21'35			7553 Nov 30 03:46	0°♌	
	7551 May 05 13:47	0°♌			7553 Dec 25 21:02	0°♍	
	7551 May 29 14:21	0°♍			7554 Jan 19 18:43	0°♎	
asc. node	7551 Jun 05 21:35	9°♍04'08			7554 Feb 13 05:13	0°♏	
	7551 Jun 22 20:12	0°♎			7554 Mar 09 08:57	0°♐	
	7551 Jul 17 09:36	0°♐		desc. node	7554 Mar 12 10:21	3°♐48'53	
	7551 Aug 11 10:08	0°♑			7554 Apr 02 08:32	0°♑	
	7551 Sep 06 05:05	0°♒		morning set	7554 Apr 18 01:26	19°♑42'36	
desc. node	7551 Sep 25 15:07	21°♒37'10			7554 Apr 26 05:59	0°♒	
	7551 Oct 03 11:09	0°♓			7554 May 20 03:24	0°♓	
evening max el	7551 Oct 21 09:00	18°♓03'56 45°44'15					
	7551 Nov 03 15:24	0°♔		superior conj	7554 May 28 09:34	10°♓21'05 -1°13'41	
greatest brilliancy	7551 Nov 29 17:15	16°♔14'50 -4.8m		minimum elong	7554 May 28 20:06	10°♓54'03 1°13'30	
retrograde	7551 Dec 09 02:02	17°♔50'40		max. Earth dist.	7554 May 31 12:32	14°♓15'46 1.71633 AU	
evening set	7551 Dec 24 17:59	13°♔09'30			7554 Jun 13 02:40	0°♔	
inferior conj	7551 Dec 30 03:42	9°♔55'17 -4°12'01		asc. node	7554 Jul 03 09:29	25°♔15'41	
minimum elong	7551 Dec 30 12:12	9°♔42'05 4°09'36		evening rise	7554 Jul 07 01:34	29°♔48'59	
min. Earth dist.	7551 Dec 31 00:08	9°♔23'34 0.27895 AU			7554 Jul 07 05:07	0°♕	
morning rise	7552 Jan 05 05:41	6°♔16'51			7554 Jul 31 11:26	0°♐	
asc. node	7552 Jan 16 15:18	2°♔06'11			7554 Aug 24 22:26	0°♑	
direct	7552 Jan 20 07:07	1°♔49'57			7554 Sep 18 15:45	0°♒	
greatest brilliancy	7552 Jan 31 09:23	4°♔06'56 -4.8m			7554 Oct 13 18:12	0°♓	
	7552 Mar 06 02:21	0°♔		desc. node	7554 Oct 23 02:47	11°♓01'56	
morning max el	7552 Mar 10 16:08	4°♔32'11 46°48'21			7554 Nov 08 10:11	0°♔	
	7552 Apr 03 10:03	0°♐			7554 Dec 05 00:18	0°♕	
	7552 Apr 29 08:52	0°♑		evening max el	7555 Jan 01 14:10	28°♔56'42 46°27'19	
desc. node	7552 May 07 08:39	9°♑29'43			7555 Jan 02 16:02	0°♐	
	7552 May 24 09:50	0°♒		greatest brilliancy	7555 Feb 10 15:55	28°♐57'43 -4.9m	
	7552 Jun 18 01:18	0°♓		asc. node	7555 Feb 13 02:57	29°♐44'36	
	7552 Jul 12 13:13	0°♔			7555 Feb 14 02:33	0°♑	
	7552 Aug 06 00:15	0°♕		retrograde	7555 Feb 20 13:27	0°♑48'31	
asc. node	7552 Aug 28 07:27	27°♕22'16			7555 Feb 26 19:54	30°♐♐	
	7552 Aug 30 10:50	0°♐		evening set	7555 Mar 07 22:42	26°♐09'05	
morning set	7552 Sep 11 17:56	15°♐06'39		inferior conj	7555 Mar 13 04:23	23°♐02'41 6°33'04	
	7552 Sep 23 20:27	0°♑		minimum elong	7555 Mar 12 17:17	23°♐19'41 6°30'32	
max. Earth dist.	7552 Oct 17 14:37	29°♑16'01 1.73313 AU		min. Earth dist.	7555 Mar 12 22:22	23°♐11'54 0.26935 AU	
				morning rise	7555 Mar 17 11:50	20°♐27'33	
superior conj	7552 Oct 18 10:18	0°♒16'40 1°25'04		direct	7555 Apr 02 18:55	15°♐15'53	
minimum elong	7552 Oct 18 07:49	0°♒09'01 1°25'07		greatest brilliancy	7555 Apr 12 13:11	17°♐04'32 -4.9m	
	7552 Oct 18 04:54	0°♒			7555 May 03 14:47	0°♑	
	7552 Nov 11 12:38	0°♓		morning max el	7555 May 23 06:11	18°♑03'13 46°54'15	
evening rise	7552 Nov 24 02:50	15°♓31'53			7555 Jun 03 18:39	0°♒	
	7552 Dec 05 20:22	0°♔		desc. node	7555 Jun 04 20:37	1°♒09'24	
desc. node	7552 Dec 18 00:27	15°♔00'29			7555 Jun 30 18:02	0°♓	
	7552 Dec 30 04:18	0°♕			7555 Jul 26 12:04	0°♔	
	7553 Jan 23 12:20	0°♐			7555 Aug 20 17:57	0°♕	
	7553 Feb 16 21:06	0°♑			7555 Sep 14 17:05	0°♐	
	7553 Mar 13 09:24	0°♒		asc. node	7555 Sep 25 19:29	13°♐25'40	
	7553 Apr 07 07:32	0°♓			7555 Oct 09 10:43	0°♑	
asc. node	7553 Apr 10 00:00	3°♓11'05			7555 Nov 02 23:18	0°♒	
	7553 May 03 04:02	0°♔		morning set	7555 Nov 20 04:12	21°♒10'40	
evening max el	7553 May 29 00:27	27°♔41'38 46°35'06			7555 Nov 27 07:43	0°♓	
	7553 May 31 08:15	0°♕			7555 Dec 21 13:10	0°♔	
greatest brilliancy	7553 Jul 07 02:27	27°♕37'57 -4.8m		max. Earth dist.	7555 Dec 24 23:08	4°♔14'15 1.72519 AU	
retrograde	7553 Jul 18 02:02	29°♕52'09					
desc. node	7553 Jul 30 18:04	26°♕41'05		superior conj	7555 Dec 27 09:10	7°♔14'22 0°44'06	
evening set	7553 Aug 02 01:11	25°♕29'59		minimum elong	7555 Dec 27 18:01	7°♔41'50 0°43'50	
inferior conj	7553 Aug 08 09:46	21°♕41'58 -2°06'39			7556 Jan 14 16:34	0°♕	
minimum elong	7553 Aug 08 05:07	21°♕49'13 2°05'19		desc. node	7556 Jan 15 12:20	1°♕01'30	
min. Earth dist.	7553 Aug 07 20:05	22°♕03'18 0.28269 AU		evening rise	7556 Feb 04 09:15	25°♕47'23	
morning rise	7553 Aug 14 09:33	18°♕06'41			7556 Feb 07 18:13	0°♐	
direct	7553 Aug 29 14:26	13°♕39'15			7556 Mar 02 18:32	0°♑	
greatest brilliancy	7553 Sep 08 09:59	15°♕23'18 -4.7m			7556 Mar 26 18:48	0°♒	
	7553 Oct 02 07:17	0°♐			7556 Apr 19 21:41	0°♓	
morning max el	7553 Oct 17 06:08	13°♐17'39 45°41'42		asc. node	7556 May 07 11:48	21°♓40'50	
	7553 Nov 02 20:47	0°♑			7556 May 14 07:05	0°♔	

	7556 Jun 08 04:20	0°♈			7559 Jan 05 04:52	0°♊	
	7556 Jul 03 22:51	0°♉			7559 Jan 29 08:24	0°♊	
	7556 Jul 31 14:35	0°♊		morning set	7559 Jan 29 17:23	0°♊27'59	
evening max el	7556 Aug 07 19:35	7°♊11'46	45°49'20	desc. node	7559 Feb 12 00:12	17°♊02'58	
desc. node	7556 Aug 27 05:37	24°♊20'00			7559 Feb 22 08:36	0°♋	
	7556 Sep 04 06:32	0°♋		max. Earth dist.	7559 Mar 08 18:41	18°♋05'06	1.71348 AU
greatest brilliancy	7556 Sep 15 08:21	5°♋36'29	-4.7m				
retrograde	7556 Sep 25 21:01	7°♋36'15		superior conj	7559 Mar 11 00:12	20°♋53'04	-0°59'45
evening set	7556 Oct 13 20:09	1°♋31'14		minimum elong	7559 Mar 10 12:27	20°♋16'12	0°59'17
	7556 Oct 16 07:15	30°♌♊			7559 Mar 18 06:23	0°♌	
inferior conj	7556 Oct 17 09:23	29°♌18'59	-8°30'49		7559 Apr 11 03:02	0°♌	
minimum elong	7556 Oct 17 06:20	29°♌23'47	8°30'38	evening rise	7559 Apr 20 13:26	11°♌51'12	
min. Earth dist.	7556 Oct 17 08:30	29°♌20'22	0.29176 AU		7559 May 05 00:32	0°♍	
morning rise	7556 Oct 20 16:33	27°♌16'04			7559 May 29 01:14	0°♍	
direct	7556 Nov 07 23:36	21°♌00'42		asc. node	7559 Jun 04 23:36	8°♍36'32	
greatest brilliancy	7556 Nov 18 10:13	23°♌00'06	-4.7m		7559 Jun 22 07:19	0°♎	
	7556 Dec 01 14:19	0°♍			7559 Jul 16 21:08	0°♎	
asc. node	7556 Dec 18 05:32	13°♍18'30			7559 Aug 10 22:26	0°♏	
morning max el	7556 Dec 27 08:57	21°♍56'40	46°02'20		7559 Sep 05 18:56	0°♏	
	7557 Jan 04 08:35	0°♐		desc. node	7559 Sep 24 17:11	20°♏59'15	
	7557 Jan 31 17:13	0°♑			7559 Oct 03 04:40	0°♐	
	7557 Feb 26 07:03	0°♒		evening max el	7559 Oct 18 22:11	15°♐46'54	45°43'28
	7557 Mar 23 01:42	0°♓			7559 Nov 03 23:23	0°♑	
desc. node	7557 Apr 08 22:29	20°♓43'47		greatest brilliancy	7559 Nov 27 07:42	13°♑59'46	-4.8m
	7557 Apr 16 10:24	0°♑		retrograde	7559 Dec 06 15:53	15°♑35'26	
	7557 May 10 13:55	0°♒		evening set	7559 Dec 22 11:03	10°♑49'47	
	7557 Jun 03 15:35	0°♓		inferior conj	7559 Dec 27 18:21	7°♑39'07	-4°30'45
	7557 Jun 27 17:47	0°♓		minimum elong	7559 Dec 28 03:16	7°♑25'16	4°28'17
morning set	7557 Jul 01 11:10	4°♓37'45		min. Earth dist.	7559 Dec 28 15:29	7°♑06'19	0.27959 AU
	7557 Jul 21 21:47	0°♈		morning rise	7560 Jan 02 18:43	4°♑02'46	
asc. node	7557 Jul 30 21:19	11°♈07'14			7560 Jan 13 03:53	30°♒♐	
				asc. node	7560 Jan 15 17:14	29°♐38'22	
superior conj	7557 Aug 08 17:12	22°♈02'23	0°21'09	direct	7560 Jan 17 21:45	29°♐32'35	
minimum elong	7557 Aug 08 12:36	21°♈48'11	0°20'51		7560 Jan 22 18:13	0°♑	
max. Earth dist.	7557 Aug 10 21:48	24°♈44'57	1.72929 AU	greatest brilliancy	7560 Jan 29 01:52	1°♑51'02	-4.8m
	7557 Aug 15 03:46	0°♑			7560 Mar 06 01:45	0°♒	
	7557 Sep 08 11:28	0°♊		morning max el	7560 Mar 08 06:30	2°♒11'54	46°47'17
evening rise	7557 Sep 14 14:45	7°♊33'24			7560 Apr 03 02:20	0°♓	
	7557 Oct 02 21:05	0°♋			7560 Apr 28 22:37	0°♑	
	7557 Oct 27 09:28	0°♐		desc. node	7560 May 06 10:42	8°♑56'06	
desc. node	7557 Nov 19 14:36	28°♐13'49			7560 May 23 22:19	0°♒	
	7557 Nov 21 01:40	0°♑			7560 Jun 17 13:02	0°♓	
	7557 Dec 15 22:25	0°♒			7560 Jul 12 00:28	0°♓	
	7558 Jan 10 01:09	0°♓			7560 Aug 05 11:09	0°♈	
	7558 Feb 04 15:03	0°♑		asc. node	7560 Aug 27 09:23	26°♈55'24	
	7558 Mar 03 08:48	0°♒			7560 Aug 29 21:29	0°♑	
asc. node	7558 Mar 12 14:27	9°♒44'36		morning set	7560 Sep 09 11:00	12°♑58'59	
evening max el	7558 Mar 15 14:21	12°♒48'04	47°01'57		7560 Sep 23 06:59	0°♊	
	7558 Apr 03 01:35	0°♓		max. Earth dist.	7560 Oct 15 09:40	27°♊14'26	1.73325 AU
greatest brilliancy	7558 Apr 25 03:55	13°♓56'22	-4.9m				
retrograde	7558 May 05 03:59	15°♓49'29		superior conj	7560 Oct 16 04:09	28°♊11'24	1°24'35
evening set	7558 May 22 10:30	10°♓03'23		minimum elong	7560 Oct 16 00:59	28°♊01'39	1°24'36
inferior conj	7558 May 25 22:30	7°♓54'58	7°54'20		7560 Oct 17 15:23	0°♋	
minimum elong	7558 May 26 08:10	7°♓40'01	7°52'40		7560 Nov 10 23:12	0°♐	
min. Earth dist.	7558 May 25 22:01	7°♓55'42	0.27315 AU	evening rise	7560 Nov 21 19:23	13°♐22'12	
morning rise	7558 May 30 06:01	5°♓18'28			7560 Dec 05 07:06	0°♑	
direct	7558 Jun 15 16:42	0°♓05'50		desc. node	7560 Dec 17 02:22	14°♑32'58	
greatest brilliancy	7558 Jun 25 07:52	1°♓49'54	-4.8m		7560 Dec 29 15:18	0°♒	
desc. node	7558 Jul 02 08:17	4°♓57'49			7561 Jan 22 23:42	0°♓	
	7558 Aug 02 20:41	0°♓			7561 Feb 16 08:57	0°♑	
morning max el	7558 Aug 04 07:00	1°♓23'14	46°11'20		7561 Mar 12 21:58	0°♒	
	7558 Aug 31 17:39	0°♈			7561 Apr 06 21:16	0°♓	
	7558 Sep 27 10:15	0°♑		asc. node	7561 Apr 09 02:06	2°♓36'16	
asc. node	7558 Oct 23 07:44	0°♊13'22			7561 May 02 20:09	0°♓	
	7558 Oct 23 03:13	0°♊		evening max el	7561 May 26 14:55	25°♓23'34	46°36'58
	7558 Nov 17 05:11	0°♋			7561 May 31 07:21	0°♈	
	7558 Dec 11 20:36	0°♐		greatest brilliancy	7561 Jul 04 18:18	25°♈24'23	-4.8m

retrograde	7561 Jul 15 18:11	27°♎39'10		minimum elong	7563 Dec 25 09:44	5°♊28'05	0°46'47
desc. node	7561 Jul 29 19:55	23°♎44'38			7564 Jan 14 03:27	0°♊	
evening set	7561 Jul 30 16:28	23°♎17'10		desc. node	7564 Jan 14 14:15	0°♊33'36	
min. Earth dist.	7561 Aug 05 11:52	19°♎50'04	0.28225 AU	evening rise	7564 Feb 01 22:35	23°♊24'54	
inferior conj	7561 Aug 06 01:14	19°♎29'16	-1°46'05		7564 Feb 07 05:15	0°♋	
minimum elong	7561 Aug 05 21:18	19°♎35'24	1°44'58		7564 Mar 02 05:45	0°♋	
morning rise	7561 Aug 12 02:40	15°♎52'10			7564 Mar 26 06:15	0°♋	
direct	7561 Aug 27 05:15	11°♎26'57			7564 Apr 19 09:27	0°♌	
greatest brilliancy	7561 Sep 06 01:17	13°♎11'41	-4.7m	asc. node	7564 May 06 13:47	21°♌09'45	
	7561 Oct 02 13:58	0°♌			7564 May 13 19:22	0°♌	
morning max el	7561 Oct 14 22:03	11°♌07'50	45°41'51		7564 Jun 07 17:33	0°♌	
	7561 Nov 02 14:05	0°♌			7564 Jul 03 13:55	0°♌	
asc. node	7561 Nov 19 19:45	18°♌47'02			7564 Jul 31 10:33	0°♌	
	7561 Nov 29 17:38	0°♌		evening max el	7564 Aug 05 11:41	5°♌00'31	45°50'31
	7561 Dec 25 09:28	0°♌		desc. node	7564 Aug 26 07:43	23°♌14'21	
	7562 Jan 19 06:26	0°♊			7564 Sep 05 13:40	0°♌	
	7562 Feb 12 16:32	0°♊		greatest brilliancy	7564 Sep 12 24:00	3°♌27'02	-4.7m
	7562 Mar 08 20:05	0°♋		retrograde	7564 Sep 23 13:08	5°♌27'10	
desc. node	7562 Mar 11 12:19	3°♋20'21			7564 Oct 10 11:24	30°♌	
	7562 Apr 01 19:33	0°♋		evening set	7564 Oct 11 10:33	29°♌25'28	
morning set	7562 Apr 15 11:44	17°♋09'44		inferior conj	7564 Oct 15 01:51	27°♌09'50	-8°27'29
	7562 Apr 25 16:56	0°♋		minimum elong	7564 Oct 14 22:05	27°♌15'46	8°27'14
	7562 May 19 14:17	0°♌		min. Earth dist.	7564 Oct 14 23:43	27°♌13'11	0.29174 AU
				morning rise	7564 Oct 18 09:40	25°♌05'44	
superior conj	7562 May 25 21:35	7°♌54'22	-1°15'43	direct	7564 Nov 05 16:18	18°♌52'01	
minimum elong	7562 May 26 07:43	8°♌26'05	1°15'33	greatest brilliancy	7564 Nov 16 01:03	20°♌49'26	-4.7m
max. Earth dist.	7562 May 28 21:48	11°♌40'35	1.71591 AU		7564 Dec 02 08:39	0°♌	
	7562 Jun 12 13:29	0°♌		asc. node	7564 Dec 17 07:28	12°♌24'07	
asc. node	7562 Jul 02 11:22	24°♌48'05		morning max el	7564 Dec 24 23:39	19°♌41'26	46°00'46
evening rise	7562 Jul 04 15:50	27°♌30'56			7565 Jan 04 03:36	0°♌	
	7562 Jul 06 15:53	0°♌			7565 Jan 31 08:01	0°♊	
	7562 Jul 30 22:17	0°♌			7565 Feb 25 20:13	0°♊	
	7562 Aug 24 09:30	0°♌			7565 Mar 22 14:03	0°♋	
	7562 Sep 18 03:15	0°♌		desc. node	7565 Apr 08 00:35	20°♋13'19	
	7562 Oct 13 06:29	0°♌			7565 Apr 15 22:15	0°♋	
desc. node	7562 Oct 22 04:50	10°♌30'44			7565 May 10 01:26	0°♋	
	7562 Nov 07 23:51	0°♊			7565 Jun 03 02:50	0°♌	
	7562 Dec 04 16:46	0°♊			7565 Jun 27 04:52	0°♌	
evening max el	7562 Dec 30 04:58	26°♊38'24	46°25'33	morning set	7565 Jun 29 01:30	2°♌18'45	
	7563 Jan 02 16:12	0°♋			7565 Jul 21 08:45	0°♌	
greatest brilliancy	7563 Feb 08 04:02	26°♋31'14	-4.9m	asc. node	7565 Jul 29 23:19	10°♌39'36	
asc. node	7563 Feb 12 04:55	27°♋41'48					
retrograde	7563 Feb 18 02:39	28°♋22'23		superior conj	7565 Aug 06 09:07	19°♌49'30	0°17'48
evening set	7563 Mar 05 08:01	23°♋47'53		minimum elong	7565 Aug 06 05:12	19°♌37'23	0°17'32
inferior conj	7563 Mar 10 17:05	20°♋36'30	6°15'35	max. Earth dist.	7565 Aug 08 16:37	22°♌41'03	1.72890 AU
minimum elong	7563 Mar 10 06:04	20°♋53'23	6°12'59		7565 Aug 14 14:40	0°♌	
min. Earth dist.	7563 Mar 10 11:10	20°♋45'34	0.26936 AU		7565 Sep 07 22:22	0°♌	
morning rise	7563 Mar 15 04:09	17°♋56'17		evening rise	7565 Sep 12 08:26	5°♌26'33	
direct	7563 Mar 31 08:29	12°♋49'42			7565 Oct 02 08:03	0°♌	
greatest brilliancy	7563 Apr 10 02:17	14°♋38'15	-4.9m		7565 Oct 26 20:41	0°♌	
	7563 May 04 02:01	0°♋		desc. node	7565 Nov 18 16:34	27°♌44'34	
morning max el	7563 May 20 20:16	15°♋40'37	46°55'01		7565 Nov 20 13:18	0°♊	
desc. node	7563 Jun 03 22:33	0°♋23'37			7565 Dec 15 10:45	0°♊	
	7563 Jun 03 13:48	0°♋			7566 Jan 09 14:34	0°♋	
	7563 Jun 30 09:06	0°♌			7566 Feb 04 06:21	0°♋	
	7563 Jul 26 01:15	0°♌			7566 Mar 03 04:16	0°♋	
	7563 Aug 20 06:04	0°♌		asc. node	7566 Mar 11 16:33	8°♋53'23	
	7563 Sep 14 04:32	0°♌		evening max el	7566 Mar 13 03:13	10°♋21'23	47°01'32
asc. node	7563 Sep 24 21:36	12°♌57'57			7566 Apr 03 14:33	0°♌	
	7563 Oct 08 21:46	0°♌		greatest brilliancy	7566 Apr 22 18:51	11°♌32'59	-4.9m
	7563 Nov 02 10:09	0°♌		retrograde	7566 May 02 16:58	13°♌24'42	
morning set	7563 Nov 17 21:32	19°♌02'54		evening set	7566 May 20 03:16	7°♌34'08	
	7563 Nov 26 18:29	0°♌		inferior conj	7566 May 23 11:51	5°♌30'49	8°05'57
	7563 Dec 20 23:58	0°♊		minimum elong	7566 May 23 21:02	5°♌16'35	8°04'29
max. Earth dist.	7563 Dec 22 14:32	1°♊59'35	1.72560 AU	min. Earth dist.	7566 May 23 11:37	5°♌31'11	0.27297 AU
				morning rise	7566 May 27 14:56	3°♌00'32	
superior conj	7563 Dec 25 00:34	4°♊59'39	0°47'04		7566 Jun 02 12:22	30°♌	

direct	7566 Jun 13 05:15	27°♄41'54			7568 Dec 04 18:08	0°♄	
greatest brilliancy	7566 Jun 22 21:03	29°♄26'07	-4.8m	desc. node	7568 Dec 16 04:18	14°♄04'42	
	7566 Jun 24 09:46	0°♄			7568 Dec 29 02:33	0°♄	
desc. node	7566 Jul 01 10:13	3°♄25'10			7569 Jan 22 11:16	0°♄	
morning max el	7566 Aug 01 19:46	29°♄00'18	46°12'57		7569 Feb 15 21:00	0°♄	
	7566 Aug 02 20:09	0°♄			7569 Mar 12 10:45	0°♄	
	7566 Aug 31 10:00	0°♄			7569 Apr 06 11:19	0°♄	
	7566 Sep 26 23:58	0°♄		asc. node	7569 Apr 08 04:01	2°♄00'02	
asc. node	7566 Oct 22 09:40	29°♄42'22			7569 May 02 12:51	0°♄	
	7566 Oct 22 15:37	0°♄		evening max el	7569 May 24 06:09	23°♄06'11	46°38'34
	7566 Nov 16 16:50	0°♄			7569 May 31 08:05	0°♄	
	7566 Dec 11 07:52	0°♄		greatest brilliancy	7569 Jul 02 09:45	23°♄08'23	-4.8m
	7567 Jan 04 15:57	0°♄		retrograde	7569 Jul 13 10:19	25°♄23'38	
morning set	7567 Jan 27 06:59	28°♄06'25		evening set	7569 Jul 28 07:35	21°♄01'48	
	7567 Jan 28 19:26	0°♄		desc. node	7569 Jul 28 22:01	20°♄41'51	
desc. node	7567 Feb 11 02:16	16°♄34'58		min. Earth dist.	7569 Aug 03 03:06	17°♄34'35	0.28182 AU
	7567 Feb 21 19:39	0°♄		inferior conj	7569 Aug 03 16:17	17°♄14'06	-1°24'59
max. Earth dist.	7567 Mar 06 02:38	15°♄24'41	1.71383 AU	minimum elong	7569 Aug 03 13:06	17°♄19'03	1°24'06
				morning rise	7569 Aug 09 19:16	13°♄35'25	
superior conj	7567 Mar 08 11:34	18°♄23'21	-0°56'48	direct	7569 Aug 24 20:09	9°♄12'22	
minimum elong	7567 Mar 07 23:59	17°♄47'01	0°56'20	greatest brilliancy	7569 Sep 03 15:39	10°♄57'10	-4.7m
	7567 Mar 17 17:28	0°♄			7569 Oct 02 19:05	0°♄	
	7567 Apr 10 14:11	0°♄		morning max el	7569 Oct 12 13:57	8°♄57'00	45°42'06
evening rise	7567 Apr 17 23:57	9°♄18'24			7569 Nov 02 07:19	0°♄	
	7567 May 04 11:46	0°♄		asc. node	7569 Nov 18 21:40	18°♄10'46	
	7567 May 28 12:36	0°♄			7569 Nov 29 07:36	0°♄	
asc. node	7567 Jun 04 01:28	8°♄06'58			7569 Dec 24 22:01	0°♄	
	7567 Jun 21 18:55	0°♄			7570 Jan 18 18:15	0°♄	
	7567 Jul 16 09:08	0°♄			7570 Feb 12 03:57	0°♄	
	7567 Aug 10 11:16	0°♄			7570 Mar 08 07:15	0°♄	
	7567 Sep 05 09:24	0°♄		desc. node	7570 Mar 10 14:24	2°♄52'04	
desc. node	7567 Sep 23 19:13	20°♄19'38			7570 Apr 01 06:35	0°♄	
	7567 Oct 02 23:05	0°♄		morning set	7570 Apr 12 22:27	14°♄38'13	
evening max el	7567 Oct 16 12:05	13°♄30'39	45°42'54		7570 Apr 25 03:53	0°♄	
	7567 Nov 04 10:47	0°♄			7570 May 19 01:11	0°♄	
greatest brilliancy	7567 Nov 24 21:45	11°♄43'51	-4.8m				
retrograde	7567 Dec 04 06:26	13°♄20'03		superior conj	7570 May 23 09:39	5°♄27'34	-1°17'34
evening set	7567 Dec 20 04:22	8°♄29'43		minimum elong	7570 May 23 19:16	5°♄57'45	1°17'27
inferior conj	7567 Dec 25 09:09	5°♄22'44	-4°48'54	max. Earth dist.	7570 May 26 09:30	9°♄12'44	1.71557 AU
minimum elong	7567 Dec 25 18:27	5°♄08'18	4°46'23		7570 Jun 12 00:22	0°♄	
min. Earth dist.	7567 Dec 26 06:37	4°♄49'27	0.28020 AU	asc. node	7570 Jul 01 13:23	24°♄20'28	
morning rise	7567 Dec 31 07:47	1°♄48'56		evening rise	7570 Jul 02 05:48	25°♄11'26	
	7568 Jan 03 21:14	30°♄			7570 Jul 06 02:48	0°♄	
asc. node	7568 Jan 14 19:11	27°♄15'50			7570 Jul 30 09:18	0°♄	
direct	7568 Jan 15 12:52	27°♄15'11			7570 Aug 23 20:45	0°♄	
greatest brilliancy	7568 Jan 26 17:57	29°♄34'42	-4.8m		7570 Sep 17 14:55	0°♄	
	7568 Jan 27 18:38	0°♄			7570 Oct 12 18:56	0°♄	
morning max el	7568 Mar 05 21:48	29°♄53'37	46°46'03	desc. node	7570 Oct 21 06:46	9°♄58'42	
	7568 Mar 06 00:20	0°♄			7570 Nov 07 13:45	0°♄	
	7568 Apr 02 18:34	0°♄			7570 Dec 04 09:38	0°♄	
	7568 Apr 28 12:33	0°♄		evening max el	7570 Dec 27 19:49	24°♄20'11	46°23'48
desc. node	7568 May 05 12:36	8°♄21'13			7571 Jan 02 17:39	0°♄	
	7568 May 23 11:07	0°♄		greatest brilliancy	7571 Feb 05 17:00	24°♄06'04	-4.9m
	7568 Jun 17 01:08	0°♄		asc. node	7571 Feb 11 07:03	25°♄34'24	
	7568 Jul 11 12:05	0°♄		retrograde	7571 Feb 15 15:38	25°♄56'36	
	7568 Aug 04 22:24	0°♄		evening set	7571 Mar 02 17:42	21°♄27'08	
asc. node	7568 Aug 26 11:27	26°♄27'57		inferior conj	7571 Mar 08 05:55	18°♄11'04	5°57'25
	7568 Aug 29 08:28	0°♄		minimum elong	7571 Mar 07 19:03	18°♄27'44	5°54'46
morning set	7568 Sep 07 03:44	10°♄49'16		min. Earth dist.	7571 Mar 08 00:29	18°♄19'24	0.26931 AU
	7568 Sep 22 17:49	0°♄		morning rise	7571 Mar 12 20:26	15°♄25'43	
				direct	7571 Mar 28 21:50	10°♄24'26	
superior conj	7568 Oct 13 21:49	26°♄04'32	1°23'58	greatest brilliancy	7571 Apr 07 15:46	12°♄12'59	-4.9m
minimum elong	7568 Oct 13 17:59	25°♄52'44	1°23'59		7571 May 04 10:00	0°♄	
max. Earth dist.	7568 Oct 13 06:12	25°♄16'25	1.73334 AU	morning max el	7571 May 18 09:26	13°♄16'18	46°55'43
	7568 Oct 17 02:12	0°♄		desc. node	7571 Jun 03 00:33	29°♄39'18	
	7568 Nov 10 10:05	0°♄			7571 Jun 03 08:10	0°♄	
evening rise	7568 Nov 19 12:02	11°♄11'55			7571 Jun 29 23:46	0°♄	

	7571 Jul 25 14:13	0°☿			7574 Jan 09 03:47	0°♄	
	7571 Aug 19 18:04	0°♌			7574 Feb 03 21:31	0°♊	
	7571 Sep 13 15:56	0°♍			7574 Mar 02 23:55	0°♈	
asc. node	7571 Sep 23 23:31	12°♍29'49		evening max el	7574 Mar 10 15:32	7°♈54'25	47°01'10
	7571 Oct 08 08:47	0°♌		asc. node	7574 Mar 10 18:29	8°♈01'53	
	7571 Nov 01 20:56	0°♍			7574 Apr 04 07:16	0°♊	
morning set	7571 Nov 15 14:29	16°♍54'15		greatest brilliancy	7574 Apr 20 09:31	9°♊10'16	-4.9m
	7571 Nov 26 05:09	0°♌		retrograde	7574 Apr 30 06:08	11°♊01'06	
max. Earth dist.	7571 Dec 20 04:53	29°♌42'08	1.72600 AU	evening set	7574 May 17 19:51	5°♊05'56	
	7571 Dec 20 10:39	0°♍		inferior conj	7574 May 21 01:09	3°♊07'42	8°16'40
				minimum elong	7574 May 21 09:47	2°♊54'21	8°15'25
superior conj	7571 Dec 22 15:50	2°♋44'56	0°49'57	min. Earth dist.	7574 May 21 01:06	3°♊07'46	0.27279 AU
minimum elong	7571 Dec 23 01:15	3°♋14'08	0°49'40	morning rise	7574 May 24 23:48	0°♊43'56	
desc. node	7572 Jan 13 16:18	0°♌06'25			7574 May 26 06:25	30°♌♌	
	7572 Jan 13 14:14	0°♌		direct	7574 Jun 10 17:31	25°♌18'48	
evening rise	7572 Jan 30 11:52	21°♌02'43		greatest brilliancy	7574 Jun 20 10:15	27°♌03'38	-4.8m
	7572 Feb 06 16:11	0°♄			7574 Jun 27 01:59	0°♊	
	7572 Mar 01 16:50	0°♊		desc. node	7574 Jun 30 12:15	1°♊57'12	
	7572 Mar 25 17:31	0°♈		morning max el	7574 Jul 30 09:18	26°♊40'35	46°14'47
	7572 Apr 18 21:01	0°♊			7574 Aug 02 18:03	0°☿	
asc. node	7572 May 05 15:43	20°♊39'16			7574 Aug 31 01:31	0°♌	
	7572 May 13 07:25	0°☿			7574 Sep 26 13:03	0°♍	
	7572 Jun 07 06:33	0°♌		asc. node	7574 Oct 21 11:34	29°♍12'49	
	7572 Jul 03 04:53	0°♍			7574 Oct 22 03:29	0°♌	
	7572 Jul 31 06:53	0°♌			7574 Nov 16 04:04	0°♍	
evening max el	7572 Aug 03 02:51	2°♌47'29	45°51'29		7574 Dec 10 18:46	0°♌	
desc. node	7572 Aug 25 09:45	22°♌07'11			7575 Jan 04 02:42	0°♍	
	7572 Sep 07 11:53	0°♍		morning set	7575 Jan 24 20:28	25°♋45'36	
greatest brilliancy	7572 Sep 10 15:52	1°♍17'49	-4.7m		7575 Jan 28 06:08	0°♌	
retrograde	7572 Sep 21 04:50	3°♍18'05		desc. node	7575 Feb 10 04:16	16°♌07'52	
	7572 Oct 04 04:46	30°♌♌			7575 Feb 21 06:20	0°♄	
evening set	7572 Oct 09 00:28	27°♌20'06		max. Earth dist.	7575 Mar 03 13:15	12°♄53'52	1.71415 AU
inferior conj	7572 Oct 12 18:10	25°♌00'45	-8°23'16				
minimum elong	7572 Oct 12 13:41	25°♌07'48	8°22'56	superior conj	7575 Mar 05 22:42	15°♄54'07	-0°53'44
min. Earth dist.	7572 Oct 12 15:12	25°♌05'25	0.29172 AU	minimum elong	7575 Mar 05 11:23	15°♄18'37	0°53'16
morning rise	7572 Oct 16 02:57	22°♌54'59			7575 Mar 17 04:10	0°♊	
direct	7572 Nov 03 08:13	16°♌43'13			7575 Apr 10 00:57	0°♈	
greatest brilliancy	7572 Nov 13 16:24	18°♌39'27	-4.7m	evening rise	7575 Apr 15 10:29	6°♈46'54	
	7572 Dec 02 22:08	0°♍			7575 May 03 22:38	0°♊	
asc. node	7572 Dec 16 09:30	11°♍31'25			7575 May 27 23:36	0°☿	
morning max el	7572 Dec 22 13:44	17°♍25'09	45°59'22	asc. node	7575 Jun 03 03:32	7°☿39'09	
	7573 Jan 03 21:54	0°♌			7575 Jun 21 06:07	0°♌	
	7573 Jan 30 22:25	0°♍			7575 Jul 15 20:44	0°♍	
	7573 Feb 25 09:02	0°♌			7575 Aug 09 23:39	0°♌	
	7573 Mar 22 02:03	0°♄			7575 Sep 04 23:29	0°♍	
desc. node	7573 Apr 07 02:24	19°♄42'56		desc. node	7575 Sep 22 21:08	19°♍40'50	
	7573 Apr 15 09:46	0°♊			7575 Oct 02 17:23	0°♌	
	7573 May 09 12:36	0°♈		evening max el	7575 Oct 14 02:51	11°♌18'07	45°42'15
	7573 Jun 02 13:44	0°♊			7575 Nov 05 01:18	0°♍	
morning set	7573 Jun 26 16:04	0°☿01'36		greatest brilliancy	7575 Nov 22 11:12	9°♋28'43	-4.8m
	7573 Jun 26 15:33	0°☿		retrograde	7575 Dec 01 21:13	11°♋05'48	
	7573 Jul 20 19:19	0°♌		evening set	7575 Dec 17 21:45	6°♋10'45	
asc. node	7573 Jul 29 01:21	10°♌13'24		inferior conj	7575 Dec 22 23:55	3°♋07'20	-5°06'25
				minimum elong	7575 Dec 23 09:32	2°♋52'26	5°03'55
superior conj	7573 Aug 04 01:15	17°♌38'33	0°14'27	min. Earth dist.	7575 Dec 23 21:23	2°♋34'05	0.28087 AU
minimum elong	7573 Aug 03 22:03	17°♌28'38	0°14'13		7575 Dec 28 03:55	30°♌♌	
behind sun begin	7573 Aug 03 11:10	16°♌54'59		morning rise	7575 Dec 28 20:38	29°♌36'24	
behind sun end	7573 Aug 04 08:56	18°♌02'18		direct	7576 Jan 13 04:34	24°♌58'51	
max. Earth dist.	7573 Aug 06 10:31	20°♌35'34	1.72853 AU	asc. node	7576 Jan 13 21:16	24°♌59'26	
	7573 Aug 14 01:10	0°♍		greatest brilliancy	7576 Jan 24 09:33	27°♌18'44	-4.8m
	7573 Sep 07 08:53	0°♌			7576 Jan 30 01:37	0°♍	
evening rise	7573 Sep 10 02:13	3°♌21'06		morning max el	7576 Mar 03 13:54	27°♋38'19	46°44'45
	7573 Oct 01 18:43	0°♍			7576 Mar 05 21:45	0°♌	
	7573 Oct 26 07:37	0°♌			7576 Apr 02 10:13	0°♄	
desc. node	7573 Nov 17 18:29	27°♌15'59			7576 Apr 28 02:01	0°♊	
	7573 Nov 20 00:43	0°♍		desc. node	7576 May 04 14:38	7°♊48'02	
	7573 Dec 14 22:52	0°♌			7576 May 22 23:27	0°♈	

	7576 Jun 16 12:48	0°♄		asc. node	7579 Feb 10 08:54	23°♄22'11	
	7576 Jul 10 23:17	0°♅		retrograde	7579 Feb 13 03:56	23°♄31'22	
	7576 Aug 04 09:14	0°♆		evening set	7579 Feb 28 03:34	19°♄06'28	
asc. node	7576 Aug 25 13:21	26°♆01'16		inferior conj	7579 Mar 05 18:46	15°♄46'09	5°38'35
	7576 Aug 28 19:03	0°♇		minimum elong	7579 Mar 05 08:08	16°♄02'29	5°35'53
morning set	7576 Sep 04 20:50	8°♇41'55		min. Earth dist.	7579 Mar 05 14:13	15°♄53'08	0.26938 AU
	7576 Sep 22 04:14	0°♈		morning rise	7579 Mar 10 12:39	12°♄55'38	
max. Earth dist.	7576 Oct 11 04:45	23°♈25'58	1.73339 AU	direct	7579 Mar 26 10:47	7°♄59'17	
				greatest brilliancy	7579 Apr 05 06:07	9°♄48'36	-4.9m
superior conj	7576 Oct 11 15:49	24°♈00'05	1°23'14		7579 May 04 15:46	0°♄	
minimum elong	7576 Oct 11 11:22	23°♈46'22	1°23'15	morning max el	7579 May 15 21:52	10°♄49'42	46°56'21
	7576 Oct 16 12:35	0°♉		desc. node	7579 Jun 02 02:36	28°♄55'27	
	7576 Nov 09 20:33	0°♊			7579 Jun 03 02:12	0°♅	
evening rise	7576 Nov 17 05:02	9°♊04'00			7579 Jun 29 14:18	0°♆	
	7576 Dec 04 04:47	0°♋			7579 Jul 25 03:05	0°♇	
desc. node	7576 Dec 15 06:24	13°♋37'59			7579 Aug 19 05:58	0°♈	
	7576 Dec 28 13:29	0°♌			7579 Sep 13 03:14	0°♉	
	7577 Jan 21 22:35	0°♍		asc. node	7579 Sep 23 01:25	12°♉01'52	
	7577 Feb 15 08:51	0°♎			7579 Oct 07 19:43	0°♊	
	7577 Mar 11 23:23	0°♏			7579 Nov 01 07:38	0°♋	
	7577 Apr 06 01:15	0°♐		morning set	7579 Nov 13 07:43	14°♋46'37	
asc. node	7577 Apr 07 05:59	1°♐24'29			7579 Nov 25 15:45	0°♌	
	7577 May 02 05:33	0°♑		max. Earth dist.	7579 Dec 17 20:10	27°♌27'52	1.72637 AU
evening max el	7577 May 21 22:05	20°♑51'24	46°40'13		7579 Dec 19 21:15	0°♍	
	7577 May 31 09:43	0°♒		superior conj	7579 Dec 20 07:39	0°♍32'16	0°52'42
greatest brilliancy	7577 Jun 30 01:29	20°♒53'44	-4.8m	minimum elong	7579 Dec 20 17:16	1°♍02'03	0°52'26
retrograde	7577 Jul 11 02:23	23°♒08'52		desc. node	7580 Jan 12 18:16	29°♍39'17	
evening set	7577 Jul 25 22:56	18°♒47'17			7580 Jan 13 00:56	0°♎	
desc. node	7577 Jul 28 00:03	17°♒37'30		evening rise	7580 Jan 28 01:42	18°♎42'40	
inferior conj	7577 Aug 01 07:20	14°♒59'49	-1°03'45		7580 Feb 06 03:02	0°♏	
minimum elong	7577 Aug 01 04:56	15°♒03'33	1°03'05		7580 Mar 01 03:54	0°♐	
min. Earth dist.	7577 Jul 31 18:19	15°♒20'02	0.28134 AU		7580 Mar 25 04:50	0°♑	
morning rise	7577 Aug 07 11:40	11°♒19'39			7580 Apr 18 08:42	0°♒	
direct	7577 Aug 22 11:21	6°♒58'53		asc. node	7580 May 04 17:45	20°♒08'34	
greatest brilliancy	7577 Sep 01 05:35	8°♒43'05	-4.7m		7580 May 12 19:41	0°♓	
	7577 Oct 02 21:54	0°♓			7580 Jun 06 19:50	0°♔	
morning max el	7577 Oct 10 05:42	6°♓46'54	45°42'28		7580 Jul 02 20:16	0°♕	
	7577 Nov 01 23:46	0°♔			7580 Jul 31 04:08	0°♖	
asc. node	7577 Nov 17 23:43	17°♔36'20		evening max el	7580 Jul 31 17:20	0°♖32'19	45°52'46
	7577 Nov 28 21:01	0°♗		desc. node	7580 Aug 24 11:36	20°♖57'35	
	7577 Dec 24 10:07	0°♘		greatest brilliancy	7580 Sep 08 07:32	29°♖08'02	-4.7m
	7578 Jan 18 05:43	0°♙			7580 Sep 10 23:26	0°♗	
	7578 Feb 11 15:06	0°♚		retrograde	7580 Sep 18 20:38	1°♗09'01	
desc. node	7578 Mar 07 18:14	0°♛			7580 Sep 26 11:32	30°♗	
	7578 Mar 09 16:16	2°♛23'39		evening set	7580 Oct 06 14:14	25°♗14'42	
morning set	7578 Mar 31 17:29	0°♜		inferior conj	7580 Oct 10 10:32	22°♗51'34	-8°18'29
	7578 Apr 10 08:44	12°♜05'43		minimum elong	7580 Oct 10 05:21	22°♗59'44	8°18'02
	7578 Apr 24 14:43	0°♝		min. Earth dist.	7580 Oct 10 06:51	22°♗57'23	0.29166 AU
	7578 May 18 11:56	0°♞		morning rise	7580 Oct 13 20:30	20°♗43'57	
superior conj	7578 May 20 21:16	2°♞59'50	-1°19'18	direct	7580 Oct 31 23:53	14°♗34'08	
minimum elong	7578 May 21 06:20	3°♞28'13	1°19'13	greatest brilliancy	7580 Nov 11 08:20	16°♗30'01	-4.7m
max. Earth dist.	7578 May 23 21:16	6°♞45'32	1.71518 AU		7580 Dec 03 08:09	0°♘	
	7578 Jun 11 11:04	0°♟		asc. node	7580 Dec 15 11:30	10°♘39'34	
evening rise	7578 Jun 29 19:24	22°♟51'19		morning max el	7580 Dec 20 04:16	15°♘09'57	45°58'12
asc. node	7578 Jun 30 15:25	23°♟53'28			7581 Jan 03 15:48	0°♙	
	7578 Jul 05 13:31	0°♠			7581 Jan 30 12:39	0°♚	
	7578 Jul 29 20:08	0°♑			7581 Feb 24 21:46	0°♛	
	7578 Aug 23 07:49	0°♒			7581 Mar 21 14:03	0°♜	
	7578 Sep 17 02:25	0°♓		desc. node	7581 Apr 06 04:27	19°♜13'13	
	7578 Oct 12 07:12	0°♔			7581 Apr 14 21:19	0°♝	
desc. node	7578 Oct 20 08:46	9°♔27'31			7581 May 08 23:52	0°♞	
	7578 Nov 07 03:30	0°♕			7581 Jun 02 00:49	0°♟	
	7578 Dec 04 02:31	0°♖		morning set	7581 Jun 24 06:05	27°♟41'48	
evening max el	7578 Dec 25 10:00	22°♖01'17	46°21'53		7581 Jun 26 02:30	0°♠	
	7579 Jan 02 20:09	0°♗			7581 Jul 20 06:09	0°♡	
greatest brilliancy	7579 Feb 03 06:19	21°♗42'01	-4.9m	asc. node	7581 Jul 28 03:15	9°♡45'51	

superior conj	7581 Aug 01 16:51	15°Ω25'00	0°11'02	min. Earth dist.	7583 Dec 21 11:54	0°☾18'05	0.28148 AU
minimum elong	7581 Aug 01 14:22	15°Ω17'22	0°10'50		7583 Dec 21 23:36	30°☿♂	
behind sun begin	7581 Jul 31 20:46	14°Ω22'52		morning rise	7583 Dec 26 09:18	27°♂23'01	
behind sun end	7581 Aug 02 07:59	16°Ω11'51		direct	7584 Jan 10 20:32	22°♂41'48	
max. Earth dist.	7581 Aug 04 01:54	18°Ω21'30	1.72813 AU	asc. node	7584 Jan 12 23:11	22°♂47'08	
	7581 Aug 13 11:55	0°♏		greatest brilliancy	7584 Jan 22 00:35	25°♂01'10	-4.8m
	7581 Sep 06 19:38	0°♎			7584 Jan 31 13:40	0°☾	
evening rise	7581 Sep 07 19:36	1°♎13'46		morning max el	7584 Mar 01 05:50	25°☾21'45	46°43'22
	7581 Oct 01 05:36	0°♏			7584 Mar 05 18:47	0°♏	
	7581 Oct 25 18:48	0°♂			7584 Apr 02 01:57	0°♏	
desc. node	7581 Nov 16 20:34	26°♂47'11			7584 Apr 27 15:40	0°♀	
	7581 Nov 19 12:23	0°☾		desc. node	7584 May 03 16:38	7°♀14'07	
	7581 Dec 14 11:15	0°♏			7584 May 22 12:01	0°♏	
	7582 Jan 08 17:17	0°♏			7584 Jun 16 00:42	0°♏	
	7582 Feb 03 13:02	0°♀			7584 Jul 10 10:44	0°☾	
	7582 Mar 02 20:18	0°♏			7584 Aug 03 20:22	0°Ω	
evening max el	7582 Mar 08 04:20	5°♏28'33	47°00'49	asc. node	7584 Aug 24 15:18	25°Ω33'34	
asc. node	7582 Mar 09 20:27	7°♏09'18			7584 Aug 28 05:58	0°♏	
	7582 Apr 05 06:02	0°♏		morning set	7584 Sep 02 13:45	6°♏32'48	
greatest brilliancy	7582 Apr 17 23:27	6°♏46'22	-4.9m		7584 Sep 21 15:04	0°♎	
retrograde	7582 Apr 27 19:41	8°♏37'15					
evening set	7582 May 15 12:15	2°♏37'19		superior conj	7584 Oct 09 09:29	21°♎53'15	1°22'24
inferior conj	7582 May 18 14:29	0°♏43'57	8°26'26	minimum elong	7584 Oct 09 04:26	21°♎37'41	1°22'22
minimum elong	7582 May 18 22:29	0°♏31'35	8°25'21	max. Earth dist.	7584 Oct 09 01:54	21°♎29'53	1.73343 AU
min. Earth dist.	7582 May 18 14:18	0°♏44'13	0.27268 AU		7584 Oct 15 23:24	0°♏	
	7582 May 19 18:59	30°☿♂			7584 Nov 09 07:27	0°♂	
morning rise	7582 May 22 08:47	28°♏26'46		evening rise	7584 Nov 14 21:39	6°♂53'35	
direct	7582 Jun 08 06:18	22°♏54'53			7584 Dec 03 15:50	0°☾	
greatest brilliancy	7582 Jun 17 23:19	24°♏40'13	-4.8m	desc. node	7584 Dec 14 08:17	13°☾09'22	
	7582 Jun 28 18:20	0°♏			7584 Dec 28 00:49	0°♏	
desc. node	7582 Jun 29 14:16	0°♏31'27			7585 Jan 21 10:19	0°♏	
morning max el	7582 Jul 27 23:52	24°♏22'10	46°16'25		7585 Feb 14 21:07	0°♀	
	7582 Aug 02 15:36	0°☾			7585 Mar 11 12:27	0°♏	
	7582 Aug 30 17:15	0°Ω			7585 Apr 05 15:40	0°♏	
	7582 Sep 26 02:26	0°♏		asc. node	7585 Apr 06 08:03	0°♏48'03	
asc. node	7582 Oct 20 13:41	28°♏42'50			7585 May 01 22:55	0°☾	
	7582 Oct 21 15:40	0°♎		evening max el	7585 May 19 14:04	18°☾35'51	46°41'51
	7582 Nov 15 15:35	0°♏			7585 May 31 13:10	0°Ω	
	7582 Dec 10 05:56	0°♂		greatest brilliancy	7585 Jun 27 17:46	18°Ω39'06	-4.8m
	7583 Jan 03 13:43	0°☾		retrograde	7585 Jul 08 18:11	20°Ω53'19	
morning set	7583 Jan 22 10:15	23°☾24'59		evening set	7585 Jul 23 14:35	16°Ω32'02	
	7583 Jan 27 17:06	0°♏		desc. node	7585 Jul 27 01:53	14°Ω30'54	
desc. node	7583 Feb 09 06:09	15°♏39'32		inferior conj	7585 Jul 29 22:28	12°Ω44'57	-0°42'26
	7583 Feb 20 17:17	0°♏		minimum elong	7585 Jul 29 20:52	12°Ω47'27	0°42'00
max. Earth dist.	7583 Mar 01 01:04	10°♏25'59	1.71442 AU	min. Earth dist.	7585 Jul 29 09:49	13°Ω04'37	0.28088 AU
				morning rise	7585 Aug 05 03:56	9°Ω03'16	
superior conj	7583 Mar 03 10:14	13°♏25'17	-0°50'37	direct	7585 Aug 20 02:32	4°Ω44'55	
minimum elong	7583 Mar 02 23:17	12°♏50'56	0°50'07	greatest brilliancy	7585 Aug 29 19:43	6°Ω28'17	-4.7m
	7583 Mar 16 15:08	0°♀			7585 Oct 02 23:40	0°♏	
	7583 Apr 09 11:57	0°♏		morning max el	7585 Oct 07 20:43	4°♏33'59	45°42'38
evening rise	7583 Apr 12 21:33	4°♏16'21			7585 Nov 01 16:20	0°♎	
	7583 May 03 09:44	0°♏		asc. node	7585 Nov 17 01:41	17°♎00'41	
	7583 May 27 10:50	0°☾			7585 Nov 28 10:46	0°♏	
asc. node	7583 Jun 02 05:32	7°☾10'20			7585 Dec 23 22:36	0°♂	
	7583 Jun 20 17:37	0°Ω			7586 Jan 17 17:32	0°☾	
	7583 Jul 15 08:43	0°♏			7586 Feb 11 02:34	0°♏	
	7583 Aug 09 12:33	0°♎			7586 Mar 07 05:31	0°♏	
	7583 Sep 04 14:14	0°♏		desc. node	7586 Mar 08 18:15	1°♏54'42	
desc. node	7583 Sep 21 23:11	19°♏00'36			7586 Mar 31 04:39	0°♀	
	7583 Oct 02 12:47	0°♂		morning set	7586 Apr 07 18:56	9°♀32'08	
evening max el	7583 Oct 11 18:22	9°♂06'04	45°41'44		7586 Apr 24 01:49	0°♏	
	7583 Nov 05 21:44	0°☾			7586 May 17 22:58	0°♏	
greatest brilliancy	7583 Nov 20 00:41	7°☾12'39	-4.8m				
retrograde	7583 Nov 29 12:02	8°☾50'22		superior conj	7586 May 18 08:58	0°♏31'23	-1°20'54
evening set	7583 Dec 15 15:16	3°☾50'53		minimum elong	7586 May 18 17:21	0°♏57'40	1°20'49
inferior conj	7583 Dec 20 14:43	0°☾50'57	-5°23'24	max. Earth dist.	7586 May 21 07:30	4°♏12'32	1.71477 AU
minimum elong	7583 Dec 21 00:34	0°☾35'40	5°20'55		7586 Jun 10 22:03	0°☾	

evening rise	7586 Jun 27 08:58	20°☿30'09		7589 Jan 30 02:53	0°☿	
asc. node	7586 Jun 29 17:18	23°☿25'10		7589 Feb 24 10:37	0°♊	
	7586 Jul 05 00:31	0°♊		7589 Mar 21 02:10	0°♋	
	7586 Jul 29 07:13	0°♌	desc. node	7589 Apr 05 06:30	18°♋43'10	
	7586 Aug 22 19:08	0°♍		7589 Apr 14 08:58	0°♌	
	7586 Sep 16 14:13	0°♎		7589 May 08 11:11	0°♍	
	7586 Oct 11 19:52	0°♏		7589 Jun 01 11:54	0°♎	
desc. node	7586 Oct 19 10:48	8°♏55'16	morning set	7589 Jun 21 19:57	25°♎21'26	
	7586 Nov 06 17:48	0°♐		7589 Jun 25 13:25	0°☿	
	7586 Dec 03 20:15	0°♑		7589 Jul 19 16:57	0°♊	
evening max el	7586 Dec 22 23:18	19°♑39'05 46°20'01	asc. node	7589 Jul 27 05:14	9°♊18'37	
	7587 Jan 03 00:55	0°♋				
greatest brilliancy	7587 Jan 31 19:57	19°♋17'11 -4.9m	superior conj	7589 Jul 30 08:24	13°♊11'18 0°07'35	
asc. node	7587 Feb 09 10:54	21°♋03'33	minimum elong	7589 Jul 30 06:41	13°♊06'00 0°07'26	
retrograde	7587 Feb 10 15:56	21°♋05'17	behind sun begin	7589 Jul 29 09:27	12°♊00'15	
evening set	7587 Feb 25 13:37	16°♋44'21	behind sun end	7589 Jul 31 03:56	14°♊11'46	
inferior conj	7587 Mar 03 07:36	13°♋20'26 5°19'08	max. Earth dist.	7589 Aug 01 17:30	16°♊08'00 1.72775 AU	
minimum elong	7587 Mar 02 21:17	13°♋36'18 5°16'25		7589 Aug 12 22:40	0°♌	
min. Earth dist.	7587 Mar 03 04:14	13°♋25'36 0.26944 AU	evening rise	7589 Sep 05 13:10	29°♌07'02	
morning rise	7587 Mar 08 04:47	10°♋24'57		7589 Sep 06 06:23	0°♍	
direct	7587 Mar 23 23:17	5°♋33'08		7589 Sep 30 16:28	0°♎	
greatest brilliancy	7587 Apr 02 20:59	7°♋24'06 -4.9m		7589 Oct 25 05:57	0°♏	
	7587 May 04 19:53	0°♌	desc. node	7589 Nov 15 22:31	26°♏18'09	
morning max el	7587 May 13 10:02	8°♌21'45 46°57'00		7589 Nov 18 24:00	0°♐	
desc. node	7587 Jun 01 04:33	28°♌11'21		7589 Dec 13 23:37	0°♑	
	7587 Jun 02 20:02	0°♍		7590 Jan 08 06:53	0°♋	
	7587 Jun 29 04:53	0°♎		7590 Feb 03 04:52	0°♌	
	7587 Jul 24 16:04	0°☿		7590 Mar 02 17:33	0°♍	
	7587 Aug 18 18:01	0°♊	evening max el	7590 Mar 05 18:06	3°♍04'49 47°00'19	
	7587 Sep 12 14:41	0°♌	asc. node	7590 Mar 08 22:32	6°♍15'34	
asc. node	7587 Sep 22 03:31	11°♌34'05		7590 Apr 06 14:07	0°♎	
	7587 Oct 07 06:47	0°♍	greatest brilliancy	7590 Apr 15 12:37	4°♎20'50 -4.9m	
	7587 Oct 31 18:30	0°♎	retrograde	7590 Apr 25 09:28	6°♎12'21	
morning set	7587 Nov 11 00:55	12°♎38'21	evening set	7590 May 13 04:19	0°♎07'52	
	7587 Nov 25 02:33	0°♏		7590 May 13 09:34	30°♏♋	
max. Earth dist.	7587 Dec 15 12:23	25°♏15'44 1.72682 AU	inferior conj	7590 May 16 03:32	28°♏19'12 8°35'24	
			minimum elong	7590 May 16 10:53	28°♏07'53 8°34'30	
superior conj	7587 Dec 17 23:22	28°♏18'32 0°55'23	min. Earth dist.	7590 May 16 02:53	28°♏20'13 0.27252 AU	
minimum elong	7587 Dec 18 09:07	28°♏48'46 0°55'07	morning rise	7590 May 19 17:31	26°♏08'41	
	7587 Dec 19 08:06	0°♐	direct	7590 Jun 05 19:24	20°♏30'18	
desc. node	7588 Jan 11 20:12	29°♐11'11	greatest brilliancy	7590 Jun 15 11:30	22°♏15'28 -4.8m	
	7588 Jan 12 11:54	0°♑	desc. node	7590 Jun 28 16:11	29°♏08'23	
evening rise	7588 Jan 25 15:18	16°♑21'12		7590 Jun 29 22:29	0°♒	
	7588 Feb 05 14:09	0°♋	morning max el	7590 Jul 25 14:47	22°♒04'54 46°18'06	
	7588 Feb 29 15:11	0°♌		7590 Aug 02 12:14	0°☿	
	7588 Mar 24 16:21	0°♍		7590 Aug 30 08:32	0°♊	
	7588 Apr 17 20:33	0°♎		7590 Sep 25 15:31	0°♌	
asc. node	7588 May 03 19:43	19°♎37'13	asc. node	7590 Oct 19 15:34	28°♎12'52	
	7588 May 12 08:08	0°☿		7590 Oct 21 03:36	0°♍	
	7588 Jun 06 09:20	0°♊		7590 Nov 15 02:53	0°♎	
	7588 Jul 02 11:59	0°♌		7590 Dec 09 16:54	0°♏	
evening max el	7588 Jul 29 07:59	28°♌17'14 45°54'10		7591 Jan 03 00:32	0°♐	
	7588 Jul 31 02:18	0°♍	morning set	7591 Jan 20 00:26	21°♐06'17	
desc. node	7588 Aug 23 13:44	19°♍46'26		7591 Jan 27 03:51	0°♑	
greatest brilliancy	7588 Sep 05 22:38	26°♍57'31 -4.7m	desc. node	7591 Feb 08 08:13	15°♑12'20	
retrograde	7588 Sep 16 12:52	29°♍00'09		7591 Feb 20 04:04	0°♋	
evening set	7588 Oct 04 03:51	23°♍09'29	max. Earth dist.	7591 Feb 26 12:00	7°♋55'53 1.71476 AU	
inferior conj	7588 Oct 08 02:58	20°♍42'28 -8°12'56				
minimum elong	7588 Oct 07 21:08	20°♍51'38 8°12'22	superior conj	7591 Feb 28 21:45	10°♋56'56 -0°47'22	
min. Earth dist.	7588 Oct 07 22:20	20°♍49'44 0.29160 AU	minimum elong	7591 Feb 28 11:14	10°♋23'59 0°46'53	
morning rise	7588 Oct 11 14:24	18°♍32'44		7591 Mar 16 01:59	0°♌	
direct	7588 Oct 29 15:41	12°♍25'06		7591 Apr 08 22:52	0°♍	
greatest brilliancy	7588 Nov 09 00:18	14°♍20'57 -4.7m	evening rise	7591 Apr 10 08:14	1°♍44'48	
	7588 Dec 03 15:25	0°♎		7591 May 02 20:44	0°♎	
asc. node	7588 Dec 14 13:26	9°♎48'30		7591 May 26 21:58	0°☿	
morning max el	7588 Dec 17 19:32	12°♎56'37 45°56'53	asc. node	7591 Jun 01 07:24	6°☿41'30	
	7589 Jan 03 09:21	0°♏		7591 Jun 20 04:58	0°♊	

	7591 Jul 14 20:33	0°♍			7594 Feb 10 13:36	0°♍	
	7591 Aug 09 01:18	0°♌			7594 Mar 06 16:22	0°♋	
	7591 Sep 04 04:54	0°♋		desc. node	7594 Mar 07 20:19	1°♋27'16	
desc. node	7591 Sep 21 01:13	18°♋20'45			7594 Mar 30 15:24	0°♐	
	7591 Oct 02 08:25	0°♏		morning set	7594 Apr 05 05:32	7°♐01'04	
evening max el	7591 Oct 09 10:16	6°♏55'53 45°41'14			7594 Apr 23 12:29	0°♏	
	7591 Nov 07 00:54	0°♎					
greatest brilliancy	7591 Nov 17 14:46	4°♎58'51 -4.7m		superior conj	7594 May 15 20:53	28°♎04'52 -1°22'18	
retrograde	7591 Nov 27 02:42	6°♎36'37		minimum elong	7594 May 16 04:31	28°♎28'47 1°22'16	
evening set	7591 Dec 13 09:05	1°♎32'57			7594 May 17 09:35	0°♊	
	7591 Dec 15 23:42	30°♏♏		max. Earth dist.	7594 May 18 15:53	1°♊35'00 1.71443 AU	
inferior conj	7591 Dec 18 05:45	28°♏36'29 -5°39'44			7594 Jun 10 08:40	0°♑	
minimum elong	7591 Dec 18 15:46	28°♏20'54 5°37'17		evening rise	7594 Jun 24 22:21	18°♑09'23	
min. Earth dist.	7591 Dec 19 02:40	28°♏03'58 0.28206 AU		asc. node	7594 Jun 28 19:20	22°♑58'23	
morning rise	7591 Dec 23 21:58	25°♏11'35			7594 Jul 04 11:11	0°♒	
direct	7592 Jan 08 12:37	20°♏26'52			7594 Jul 28 18:00	0°♑	
asc. node	7592 Jan 12 01:09	20°♏41'32			7594 Aug 22 06:10	0°♌	
greatest brilliancy	7592 Jan 19 15:34	22°♏45'09 -4.8m			7594 Sep 16 01:42	0°♋	
	7592 Feb 01 14:18	0°♎			7594 Oct 11 08:14	0°♏	
morning max el	7592 Feb 27 20:54	23°♎04'16 46°41'51		desc. node	7594 Oct 18 12:44	8°♎23'47	
	7592 Mar 05 14:40	0°♍			7594 Nov 06 07:50	0°♎	
	7592 Apr 01 17:06	0°♋			7594 Dec 03 13:56	0°♍	
	7592 Apr 27 04:57	0°♐		evening max el	7594 Dec 20 12:03	17°♍17'01 46°18'13	
desc. node	7592 May 02 18:31	6°♐40'44			7595 Jan 03 07:07	0°♋	
	7592 May 22 00:19	0°♏		greatest brilliancy	7595 Jan 29 09:33	16°♋53'52 -4.8m	
	7592 Jun 15 12:23	0°♊		retrograde	7595 Feb 08 04:14	18°♋41'17	
	7592 Jul 09 21:57	0°♑		asc. node	7595 Feb 08 13:01	18°♋41'08	
	7592 Aug 03 07:13	0°♒		evening set	7595 Feb 23 00:02	14°♋23'30	
asc. node	7592 Aug 23 17:21	25°♒07'08		inferior conj	7595 Feb 28 20:36	10°♋56'30 4°59'02	
	7592 Aug 27 16:36	0°♑		minimum elong	7595 Feb 28 10:39	11°♋11'46 4°56'22	
morning set	7592 Aug 31 06:32	4°♑24'18		min. Earth dist.	7595 Feb 28 18:25	10°♋59'52 0.26952 AU	
	7592 Sep 21 01:34	0°♌		morning rise	7595 Mar 05 21:01	7°♋56'26	
				direct	7595 Mar 21 11:56	3°♋08'34	
superior conj	7592 Oct 07 03:15	19°♌47'51 1°21'26		greatest brilliancy	7595 Mar 31 12:09	5°♋01'40 -4.9m	
minimum elong	7592 Oct 06 21:37	19°♌30'29 1°21'23			7595 May 04 21:46	0°♐	
max. Earth dist.	7592 Oct 06 22:05	19°♌31'56 1.73343 AU		morning max el	7595 May 10 22:52	5°♐56'51 46°57'43	
	7592 Oct 15 09:53	0°♋		desc. node	7595 May 31 06:32	27°♐29'23	
	7592 Nov 08 18:00	0°♏			7595 Jun 02 12:57	0°♏	
evening rise	7592 Nov 12 14:33	4°♏45'07			7595 Jun 28 18:49	0°♊	
	7592 Dec 03 02:34	0°♎			7595 Jul 24 04:34	0°♑	
desc. node	7592 Dec 13 10:16	12°♎42'04			7595 Aug 18 05:40	0°♒	
	7592 Dec 27 11:48	0°♍			7595 Sep 12 01:47	0°♑	
	7593 Jan 20 21:40	0°♋		asc. node	7595 Sep 21 05:25	11°♑06'36	
	7593 Feb 14 09:01	0°♐			7595 Oct 06 17:32	0°♌	
	7593 Mar 11 01:10	0°♏			7595 Oct 31 05:02	0°♋	
asc. node	7593 Apr 05 09:58	0°♊12'02		morning set	7595 Nov 08 18:05	10°♊31'00	
	7593 Apr 05 05:51	0°♊			7595 Nov 24 13:01	0°♏	
	7593 May 01 16:20	0°♑		max. Earth dist.	7595 Dec 13 07:06	23°♏12'30 1.72722 AU	
evening max el	7593 May 17 05:17	16°♑18'55 46°43'12					
	7593 May 31 18:09	0°♒		superior conj	7595 Dec 15 15:11	26°♏06'17 0°57'58	
greatest brilliancy	7593 Jun 25 10:34	16°♒25'15 -4.8m		minimum elong	7595 Dec 16 01:01	26°♏36'45 0°57'42	
retrograde	7593 Jul 06 09:18	18°♒37'47			7595 Dec 18 18:36	0°♎	
evening set	7593 Jul 21 06:16	14°♒16'38		desc. node	7596 Jan 10 22:15	28°♎34'35	
desc. node	7593 Jul 26 04:00	11°♒22'27			7596 Jan 11 22:31	0°♍	
min. Earth dist.	7593 Jul 27 01:37	10°♒48'51 0.28040 AU		evening rise	7596 Jan 23 05:13	14°♍01'52	
inferior conj	7593 Jul 27 13:28	10°♒30'23 -0°20'46			7596 Feb 05 00:56	0°♋	
minimum elong	7593 Jul 27 12:41	10°♒31'37 0°20'36			7596 Feb 29 02:09	0°♐	
morning rise	7593 Aug 02 19:52	6°♒47'12			7596 Mar 24 03:34	0°♏	
direct	7593 Aug 17 17:08	2°♒31'11			7596 Apr 17 08:07	0°♊	
greatest brilliancy	7593 Aug 27 10:17	4°♒14'18 -4.8m		asc. node	7596 May 02 21:39	19°♊06'45	
	7593 Oct 02 23:44	0°♑			7596 May 11 20:17	0°♑	
morning max el	7593 Oct 05 10:44	2°♑19'29 45°43'02			7596 Jun 05 22:34	0°♒	
	7593 Nov 01 08:11	0°♌		evening max el	7596 Jul 02 03:33	0°♑	
asc. node	7593 Nov 16 03:37	16°♌26'26			7596 Jul 26 23:11	26°♑04'31 45°55'29	
	7593 Nov 27 23:57	0°♋			7596 Jul 31 00:59	0°♌	
	7593 Dec 23 10:35	0°♏		desc. node	7596 Aug 22 15:43	18°♌33'46	
	7594 Jan 17 04:55	0°♎		greatest brilliancy	7596 Sep 03 13:13	24°♌47'07 -4.7m	

retrograde	7596 Sep 14 05:34	26° Ω 51'54			7599 Feb 19 14:52	0° Υ	
evening set	7596 Oct 01 17:17	21° Ω 05'00		max. Earth dist.	7599 Feb 23 21:10	5° Υ 20'20	1.71508 AU
inferior conj	7596 Oct 05 19:20	18° Ω 33'49	-8°06'34				
minimum elong	7596 Oct 05 12:54	18° Ω 43'55	8°05'54	superior conj	7599 Feb 26 09:20	8° Υ 28'51	-0°44'02
min. Earth dist.	7596 Oct 05 13:31	18° Ω 42'56	0.29153 AU	minimum elong	7599 Feb 25 23:21	7° Υ 57'35	0°43'34
morning rise	7596 Oct 09 08:32	16° Ω 21'42			7599 Mar 15 12:50	0° Υ	
direct	7596 Oct 27 07:51	10° Ω 16'35		evening rise	7599 Apr 07 18:57	29° Υ 13'18	
greatest brilliancy	7596 Nov 06 15:57	12° Ω 12'12	-4.7m		7599 Apr 08 09:49	0° Υ	
	7596 Dec 03 20:12	0° Ω			7599 May 02 07:48	0° Π	
asc. node	7596 Dec 13 15:28	8° Ω 59'18			7599 May 26 09:12	0° Ω	
morning max el	7596 Dec 15 11:35	10° Ω 46'02	45°55'41	asc. node	7599 May 31 09:28	6° Ω 12'55	
	7597 Jan 03 02:16	0° Υ			7599 Jun 19 16:28	0° Ω	
	7597 Jan 29 16:42	0° Υ			7599 Jul 14 08:32	0° Π	
	7597 Feb 23 23:07	0° \approx			7599 Aug 08 14:15	0° Ω	
	7597 Mar 20 13:58	0° Υ			7599 Sep 03 19:52	0° Ω	
desc. node	7597 Apr 04 08:20	18° Υ 13'12		desc. node	7599 Sep 20 03:08	17° Ω 39'55	
	7597 Apr 13 20:20	0° Υ			7599 Oct 02 04:48	0° Υ	
	7597 May 07 22:17	0° Υ		evening max el	7599 Oct 07 01:24	4° Υ 43'30	45°40'39
	7597 May 31 22:47	0° Π			7599 Nov 08 16:17	0° Υ	
morning set	7597 Jun 19 09:58	23° Π 02'07		greatest brilliancy	7599 Nov 15 05:19	2° Υ 45'12	-4.7m
	7597 Jun 25 00:08	0° Ω		retrograde	7599 Nov 24 16:51	4° Υ 22'29	
	7597 Jul 19 03:32	0° Ω			7599 Dec 09 18:34	30° Ω 2'	
asc. node	7597 Jul 26 07:17	8° Ω 52'17		evening set	7599 Dec 11 02:56	29° Υ 14'34	
				inferior conj	7599 Dec 15 20:50	26° Υ 21'42	-5°55'25
superior conj	7597 Jul 28 00:03	10° Ω 58'32	0°04'09	minimum elong	7599 Dec 16 06:57	26° Υ 05'56	5°53'02
minimum elong	7597 Jul 27 23:07	10° Ω 55'40	0°04'01	min. Earth dist.	7599 Dec 16 17:42	25° Υ 49'11	0.28266 AU
behind sun begin	7597 Jul 26 23:56	9° Ω 43'52		morning rise	7599 Dec 21 10:29	22° Υ 59'55	
behind sun end	7597 Jul 28 22:18	12° Ω 07'27		direct	7600 Jan 06 04:21	18° Υ 11'27	
max. Earth dist.	7597 Jul 30 11:28	14° Ω 02'30	1.72737 AU	asc. node	7600 Jan 11 03:14	18° Υ 40'05	
	7597 Aug 12 09:11	0° Π		greatest brilliancy	7600 Jan 17 06:59	20° Υ 28'59	-4.8m
evening rise	7597 Sep 03 06:55	27° Π 01'27			7600 Feb 02 08:45	0° Υ	
	7597 Sep 05 16:56	0° Ω		morning max el	7600 Feb 25 11:05	20° Υ 43'47	46°40'22
	7597 Sep 30 03:11	0° Ω			7600 Mar 05 10:15	0° \approx	
	7597 Oct 24 16:59	0° Υ			7600 Apr 01 08:17	0° Υ	
desc. node	7597 Nov 15 00:27	25° Υ 49'26			7600 Apr 26 18:19	0° Υ	
	7597 Nov 18 11:32	0° Υ		desc. node	7600 May 01 20:36	6° Υ 07'32	
	7597 Dec 13 11:55	0° \approx			7600 May 21 12:43	0° Υ	
	7598 Jan 07 20:26	0° Υ			7600 Jun 15 00:11	0° Π	
	7598 Feb 02 20:46	0° Υ			7600 Jul 09 09:19	0° Ω	
	7598 Mar 02 15:23	0° Υ			7600 Aug 02 18:18	0° Ω	
evening max el	7598 Mar 03 08:37	0° Υ 43'32	46°59'44	asc. node	7600 Aug 22 19:15	24° Ω 39'26	
asc. node	7598 Mar 08 00:27	5° Υ 20'53			7600 Aug 27 03:27	0° Π	
	7598 Apr 08 13:20	0° Π		morning set	7600 Aug 28 23:22	2° Π 15'03	
greatest brilliancy	7598 Apr 13 01:31	1° Π 55'33	-4.9m		7600 Sep 20 12:18	0° Ω	
retrograde	7598 Apr 22 23:26	3° Π 47'42					
	7598 May 06 16:41	30° Ω		superior conj	7600 Oct 04 21:10	17° Ω 42'14	1°20'21
evening set	7598 May 10 20:12	27° Υ 39'11		minimum elong	7600 Oct 04 15:00	17° Ω 23'12	1°20'17
inferior conj	7598 May 13 16:37	25° Υ 54'40	8°43'22	max. Earth dist.	7600 Oct 04 16:53	17° Ω 29'01	1.73340 AU
minimum elong	7598 May 13 23:14	25° Υ 44'29	8°42'37		7600 Oct 14 20:36	0° Ω	
min. Earth dist.	7598 May 13 15:14	25° Υ 56'49	0.27236 AU		7600 Nov 08 04:48	0° Υ	
morning rise	7598 May 17 02:22	23° Υ 50'34		evening rise	7600 Nov 10 07:37	2° Υ 36'33	
direct	7598 Jun 03 08:53	18° Υ 06'09			7600 Dec 02 13:33	0° Υ	
greatest brilliancy	7598 Jun 12 23:19	19° Υ 50'24	-4.9m	desc. node	7600 Dec 12 12:22	12° Υ 14'20	
desc. node	7598 Jun 27 18:15	27° Υ 48'31			7600 Dec 26 23:06	0° \approx	
	7598 Jun 30 18:54	0° Π			7601 Jan 20 09:24	0° Υ	
morning max el	7598 Jul 23 05:36	19° Π 47'33	46°19'48		7601 Feb 13 21:19	0° Υ	
	7598 Aug 02 08:06	0° Ω			7601 Mar 10 14:20	0° Υ	
	7598 Aug 29 23:31	0° Ω		asc. node	7601 Apr 04 11:56	29° Υ 34'52	
	7598 Sep 25 04:25	0° Π			7601 Apr 04 20:33	0° Π	
asc. node	7598 Oct 18 17:30	27° Π 43'20			7601 May 01 10:31	0° Ω	
	7598 Oct 20 15:26	0° Ω		evening max el	7601 May 14 19:16	13° Ω 57'44	46°44'37
	7598 Nov 14 14:09	0° Ω			7601 Jun 01 01:50	0° Ω	
	7598 Dec 09 03:54	0° Υ		greatest brilliancy	7601 Jun 23 03:23	14° Ω 10'04	-4.8m
	7599 Jan 02 11:23	0° Υ		retrograde	7601 Jul 03 23:56	16° Ω 21'00	
morning set	7599 Jan 17 14:41	18° Υ 47'43		evening set	7601 Jul 18 21:59	11° Ω 59'23	
	7599 Jan 26 14:40	0° \approx		min. Earth dist.	7601 Jul 24 17:31	8° Ω 31'20	0.27997 AU
desc. node	7599 Feb 07 10:12	14° \approx 44'48		inferior conj	7601 Jul 25 04:22	8° Ω 14'25	0°01'01

minimum elong	7601 Jul 25 04:25	8°♌14'22	0°00'55
transit middle	7601 Jul 25 04:25	8°♌14'22	0°00'55
transit begin	7601 Jul 25 00:22	8°♌20'41	
transit end	7601 Jul 25 08:28	8°♌08'04	
desc. node	7601 Jul 25 06:01	8°♌11'52	
morning rise	7601 Jul 31 11:31	4°♌29'56	
direct	7601 Aug 15 07:14	0°♌15'45	
greatest brilliancy	7601 Aug 25 01:19	1°♌59'20	-4.8m
	7601 Oct 02 23:13	0°♍	
morning max el	7601 Oct 03 00:30	0°♍03'04	45°43'38
	7601 Nov 01 00:11	0°♍	
asc. node	7601 Nov 15 05:40	15°♍51'44	
	7601 Nov 27 13:23	0°♎	
	7601 Dec 22 22:51	0°♏	