

superior conj	13600 Oct 04 23:58	26° $\Omega$ 42'17	0°31'33	asc. node	13603 Mar 09 12:58	8° $\Upsilon$ 16'29	
minimum elong	13600 Oct 04 16:47	26° $\Omega$ 19'55	0°31'36	direct	13603 Mar 18 00:24	6° $\Upsilon$ 48'53	
max. Earth dist.	13600 Oct 06 23:43	29° $\Omega$ 11'15	1.72010 AU	greatest brilliancy	13603 Mar 28 20:55	8° $\Upsilon$ 59'32	-4.8m
	13600 Oct 07 15:21	0° $\mathbb{M}$			13603 Apr 27 22:34	0° $\Upsilon$	
	13600 Oct 31 17:21	0° $\Upsilon$		morning max el	13603 May 06 17:50	8° $\Upsilon$ 24'09	46°18'03
evening rise	13600 Nov 11 20:09	13° $\Upsilon$ 48'10			13603 May 27 08:04	0° $\mathcal{B}$	
	13600 Nov 24 22:06	0° $\mathcal{B}$			13603 Jun 22 16:57	0° $\mathbb{I}$	
	13600 Dec 19 07:12	0° $\approx$		desc. node	13603 Jun 29 14:56	8° $\mathbb{I}$ 08'26	
desc. node	13601 Jan 11 08:43	28° $\approx$ 06'34			13603 Jul 17 21:33	0° $\mathcal{C}$	
	13601 Jan 12 22:10	0° $\Upsilon$			13603 Aug 11 12:20	0° $\Omega$	
	13601 Feb 06 19:59	0° $\Upsilon$			13603 Sep 04 20:33	0° $\mathbb{M}$	
	13601 Mar 04 01:57	0° $\mathcal{B}$			13603 Sep 29 02:07	0° $\Omega$	
	13601 Mar 29 20:32	0° $\mathbb{I}$		asc. node	13603 Oct 20 08:30	26° $\Omega$ 22'03	
	13601 Apr 25 18:22	0° $\mathcal{C}$			13603 Oct 23 06:46	0° $\mathbb{M}$	
asc. node	13601 May 04 05:33	8° $\mathcal{C}$ 56'03		morning set	13603 Nov 07 22:18	19° $\mathbb{M}$ 24'43	
evening max el	13601 May 11 07:51	16° $\mathcal{C}$ 07'50	46°30'48		13603 Nov 16 11:08	0° $\Upsilon$	
	13601 May 26 04:57	0° $\Omega$			13603 Dec 10 15:51	0° $\mathcal{B}$	
greatest brilliancy	13601 Jun 20 20:25	16° $\Omega$ 30'15	-4.9m				
retrograde	13601 Jun 30 08:23	18° $\Omega$ 12'38		superior conj	13603 Dec 15 07:24	5° $\mathcal{B}$ 45'21	1°26'11
evening set	13601 Jul 17 07:34	12° $\Omega$ 40'34		minimum elong	13603 Dec 15 07:32	5° $\mathcal{B}$ 45'46	1°27'15
inferior conj	13601 Jul 21 00:18	10° $\Omega$ 26'50	7°37'50	max. Earth dist.	13603 Dec 17 06:58	8° $\mathcal{B}$ 12'36	1.72900 AU
minimum elong	13601 Jul 21 10:49	10° $\Omega$ 10'42	7°35'03		13604 Jan 03 21:58	0° $\approx$	
min. Earth dist.	13601 Jul 21 14:13	10° $\Omega$ 05'29	0.27144 AU	evening rise	13604 Jan 21 11:47	21° $\approx$ 39'49	
morning rise	13601 Jul 25 13:53	7° $\Omega$ 42'22			13604 Jan 28 06:27	0° $\Upsilon$	
direct	13601 Aug 10 17:52	2° $\Omega$ 35'43		desc. node	13604 Feb 08 22:17	14° $\Upsilon$ 18'52	
greatest brilliancy	13601 Aug 20 22:33	4° $\Omega$ 32'32	-4.9m		13604 Feb 21 17:26	0° $\Upsilon$	
desc. node	13601 Aug 24 08:43	5° $\Omega$ 57'50			13604 Mar 17 06:24	0° $\mathcal{B}$	
	13601 Sep 24 23:24	0° $\mathbb{M}$			13604 Apr 10 21:10	0° $\mathbb{I}$	
morning max el	13601 Sep 30 00:20	4° $\mathbb{M}$ 54'36	46°41'49		13604 May 05 15:28	0° $\mathcal{C}$	
	13601 Oct 23 20:06	0° $\Omega$			13604 May 30 18:15	0° $\Omega$	
	13601 Nov 19 08:41	0° $\mathbb{M}$		asc. node	13604 May 31 16:00	1° $\Omega$ 04'10	
	13601 Dec 14 22:39	0° $\Upsilon$			13604 Jun 25 16:19	0° $\mathbb{M}$	
asc. node	13601 Dec 15 08:54	0° $\Upsilon$ 30'26		evening max el	13604 Jul 23 09:15	29° $\mathbb{M}$ 46'09	46°45'37
	13602 Jan 08 23:55	0° $\mathcal{B}$			13604 Jul 23 14:47	0° $\Omega$	
	13602 Feb 02 17:14	0° $\approx$			13604 Aug 31 14:20	0° $\mathbb{M}$	
	13602 Feb 27 05:34	0° $\Upsilon$		greatest brilliancy	13604 Aug 31 19:23	0° $\mathbb{M}$ 04'54	-4.9m
	13602 Mar 23 14:34	0° $\Upsilon$		retrograde	13604 Sep 11 16:24	2° $\mathbb{M}$ 16'18	
morning set	13602 Mar 29 02:21	6° $\Upsilon$ 46'39		desc. node	13604 Sep 20 17:44	0° $\mathbb{M}$ 36'20	
desc. node	13602 Apr 06 01:28	16° $\Upsilon$ 37'17			13604 Sep 22 06:46	30° $\mathcal{R}$ $\Omega$	
	13602 Apr 16 20:41	0° $\mathcal{B}$		evening set	13604 Sep 26 07:51	28° $\Omega$ 02'44	
max. Earth dist.	13602 May 04 03:25	21° $\mathcal{B}$ 27'54	1.72200 AU	min. Earth dist.	13604 Oct 01 22:18	24° $\Omega$ 45'48	0.27356 AU
				inferior conj	13604 Oct 02 14:14	24° $\Omega$ 21'24	-2°59'52
superior conj	13602 May 07 06:20	25° $\mathcal{B}$ 21'04	-1°06'41	minimum elong	13604 Oct 02 07:35	24° $\Omega$ 31'34	2°57'32
minimum elong	13602 May 06 19:11	24° $\mathcal{B}$ 46'21	1°07'06	morning rise	13604 Oct 08 08:03	20° $\Omega$ 58'56	
	13602 May 10 23:53	0° $\mathbb{I}$		direct	13604 Oct 23 11:37	16° $\Omega$ 34'35	
	13602 Jun 04 00:36	0° $\mathcal{C}$		greatest brilliancy	13604 Nov 01 23:59	18° $\Omega$ 14'35	-4.8m
evening rise	13602 Jun 15 16:58	14° $\mathcal{C}$ 36'59			13604 Nov 22 05:53	0° $\mathbb{M}$	
	13602 Jun 28 00:03	0° $\Omega$		morning max el	13604 Dec 11 15:37	17° $\mathbb{M}$ 03'08	45°57'48
	13602 Jul 22 00:05	0° $\mathbb{M}$			13604 Dec 24 13:05	0° $\Upsilon$	
asc. node	13602 Jul 27 15:08	7° $\mathbb{M}$ 00'57		asc. node	13605 Jan 11 19:56	19° $\Upsilon$ 40'26	
	13602 Aug 15 02:43	0° $\Omega$			13605 Jan 21 01:24	0° $\mathcal{B}$	
	13602 Sep 08 10:18	0° $\mathbb{M}$			13605 Feb 16 00:09	0° $\approx$	
	13602 Oct 03 02:42	0° $\Upsilon$			13605 Mar 13 04:31	0° $\Upsilon$	
	13602 Oct 28 11:08	0° $\mathcal{B}$			13605 Apr 06 22:22	0° $\Upsilon$	
desc. node	13602 Nov 16 10:56	21° $\mathcal{B}$ 36'03			13605 May 01 09:07	0° $\mathcal{B}$	
	13602 Nov 24 02:43	0° $\approx$		desc. node	13605 May 03 15:42	2° $\mathcal{B}$ 48'22	
evening max el	13602 Dec 16 10:02	22° $\approx$ 58'27	45°57'59		13605 May 25 14:21	0° $\mathbb{I}$	
	13602 Dec 23 22:36	0° $\Upsilon$		morning set	13605 Jun 10 15:44	20° $\mathbb{I}$ 01'12	
greatest brilliancy	13603 Jan 24 11:44	21° $\Upsilon$ 22'37	-4.8m		13605 Jun 18 15:20	0° $\mathcal{C}$	
retrograde	13603 Feb 03 10:24	23° $\Upsilon$ 10'26			13605 Jul 12 13:46	0° $\Omega$	
evening set	13603 Feb 18 23:20	18° $\Upsilon$ 29'07					
inferior conj	13603 Feb 24 17:12	15° $\Upsilon$ 00'54	-3°06'29	superior conj	13605 Jul 20 14:31	10° $\Omega$ 04'38	-1°12'02
minimum elong	13603 Feb 24 23:51	14° $\Upsilon$ 50'30	3°04'10	minimum elong	13605 Jul 21 01:35	10° $\Omega$ 39'21	1°12'36
min. Earth dist.	13603 Feb 25 02:49	14° $\Upsilon$ 45'51	0.28490 AU	max. Earth dist.	13605 Jul 20 06:14	9° $\Omega$ 38'40	1.71434 AU
morning rise	13603 Mar 03 00:06	11° $\Upsilon$ 14'24			13605 Aug 05 11:33	0° $\mathbb{M}$	

asc. node	13605 Aug 24 05:14	23° $\mathbb{M}$ 28'46			13608 Jan 18 10:04	0° $\mathcal{Z}$	
	13605 Aug 29 10:17	0° $\mathcal{Z}$		asc. node	13608 Feb 09 05:48	14° $\mathcal{Z}$ 50'12	
evening rise	13605 Aug 29 17:48	0° $\mathcal{Z}$ 23'32		morning max el	13608 Feb 22 11:25	26° $\mathcal{Z}$ 55'36	45°44'15
	13605 Sep 22 11:10	0° $\mathbb{M}$			13608 Feb 25 14:33	0° $\approx$	
	13605 Oct 16 15:46	0° $\mathcal{Z}$			13608 Mar 24 19:40	0° $\mathcal{H}$	
	13605 Nov 10 02:36	0° $\mathcal{Z}$			13608 Apr 19 22:23	0° $\mathcal{Y}$	
	13605 Dec 04 23:23	0° $\approx$			13608 May 15 02:27	0° $\mathcal{B}$	
desc. node	13605 Dec 13 22:04	10° $\approx$ 37'38		desc. node	13608 May 31 04:54	19° $\mathcal{B}$ 33'28	
	13605 Dec 30 11:10	0° $\mathcal{H}$			13608 Jun 08 17:29	0° $\mathbb{I}$	
	13606 Jan 25 22:41	0° $\mathcal{Y}$			13608 Jul 03 00:13	0° $\mathcal{G}$	
	13606 Feb 23 11:21	0° $\mathcal{B}$			13608 Jul 27 02:06	0° $\mathcal{Q}$	
evening max el	13606 Feb 25 13:36	2° $\mathcal{B}$ 02'47	46°01'06		13608 Aug 20 01:53	0° $\mathbb{M}$	
	13606 Apr 03 04:55	0° $\mathbb{I}$		morning set	13608 Aug 24 07:14	5° $\mathbb{M}$ 17'04	
asc. node	13606 Apr 05 22:08	1° $\mathbb{I}$ 04'04			13608 Sep 13 01:27	0° $\mathcal{Z}$	
greatest brilliancy	13606 Apr 05 23:43	1° $\mathbb{I}$ 05'27	-4.8m	asc. node	13608 Sep 20 19:55	9° $\mathcal{Z}$ 42'40	
retrograde	13606 Apr 15 20:08	2° $\mathbb{I}$ 53'22					
	13606 Apr 27 21:02	30° $\mathcal{R}$ $\mathcal{B}$		superior conj	13608 Oct 02 13:59	24° $\mathcal{Z}$ 23'30	0°28'09
evening set	13606 May 01 17:19	27° $\mathcal{B}$ 59'44		minimum elong	13608 Oct 02 07:28	24° $\mathcal{Z}$ 03'10	0°28'10
inferior conj	13606 May 06 18:53	24° $\mathcal{B}$ 55'29	6°53'55	max. Earth dist.	13608 Oct 04 11:24	26° $\mathcal{Z}$ 45'14	1.71982 AU
minimum elong	13606 May 06 08:07	25° $\mathcal{B}$ 12'18	6°50'54		13608 Oct 07 01:50	0° $\mathbb{M}$	
min. Earth dist.	13606 May 06 18:57	24° $\mathcal{B}$ 55'22	0.27834 AU		13608 Oct 31 03:51	0° $\mathcal{Z}$	
morning rise	13606 May 10 22:42	22° $\mathcal{B}$ 22'03		evening rise	13608 Nov 09 11:52	11° $\mathcal{Z}$ 35'33	
direct	13606 May 27 19:01	16° $\mathcal{B}$ 51'38			13608 Nov 24 08:39	0° $\mathcal{Z}$	
greatest brilliancy	13606 Jun 06 20:58	18° $\mathcal{B}$ 45'34	-4.9m		13608 Dec 18 17:55	0° $\approx$	
	13606 Jun 25 16:54	0° $\mathbb{I}$		desc. node	13609 Jan 10 10:29	27° $\approx$ 38'36	
morning max el	13606 Jul 17 03:50	19° $\mathbb{I}$ 27'32	46°55'06		13609 Jan 12 09:11	0° $\mathcal{H}$	
desc. node	13606 Jul 27 01:19	29° $\mathbb{I}$ 42'13			13609 Feb 06 07:35	0° $\mathcal{Y}$	
	13606 Jul 27 08:01	0° $\mathcal{G}$			13609 Mar 03 14:32	0° $\mathcal{B}$	
	13606 Aug 23 05:46	0° $\mathcal{Q}$			13609 Mar 29 10:51	0° $\mathbb{I}$	
	13606 Sep 17 18:29	0° $\mathbb{M}$			13609 Apr 25 12:30	0° $\mathcal{G}$	
	13606 Oct 12 17:41	0° $\mathcal{Z}$		asc. node	13609 May 03 07:36	8° $\mathcal{G}$ 09'23	
	13606 Nov 06 10:18	0° $\mathbb{M}$		evening max el	13609 May 08 21:59	13° $\mathcal{G}$ 48'24	46°29'56
asc. node	13606 Nov 16 22:15	12° $\mathbb{M}$ 49'21			13609 May 26 13:44	0° $\mathcal{Q}$	
	13606 Nov 30 22:50	0° $\mathcal{Z}$					
	13606 Dec 25 08:32	0° $\mathcal{Z}$		greatest brilliancy	13609 Jun 18 09:05	14° $\mathcal{Q}$ 06'55	-4.9m
morning set	13607 Jan 16 08:36	27° $\mathcal{Z}$ 07'06		retrograde	13609 Jun 27 21:59	15° $\mathcal{Q}$ 49'51	
	13607 Jan 18 16:40	0° $\approx$		evening set	13609 Jul 15 00:07	10° $\mathcal{Q}$ 12'11	
	13607 Feb 12 00:20	0° $\mathcal{H}$		inferior conj	13609 Jul 18 13:20	8° $\mathcal{Q}$ 03'30	7°50'44
				minimum elong	13609 Jul 18 23:28	7° $\mathcal{Q}$ 47'57	7°48'08
				min. Earth dist.	13609 Jul 19 02:57	7° $\mathcal{Q}$ 42'37	0.27171 AU
superior conj	13607 Feb 22 09:35	12° $\mathcal{H}$ 48'49	0°33'20	morning rise	13609 Jul 22 22:42	5° $\mathcal{Q}$ 25'13	
minimum elong	13607 Feb 22 16:41	13° $\mathcal{H}$ 10'42	0°33'25	direct	13609 Aug 08 07:37	0° $\mathcal{Q}$ 11'54	
max. Earth dist.	13607 Feb 21 21:32	12° $\mathcal{H}$ 11'39	1.73100 AU	greatest brilliancy	13609 Aug 18 11:06	2° $\mathcal{Q}$ 08'15	-4.9m
	13607 Mar 08 07:54	0° $\mathcal{Y}$		desc. node	13609 Aug 23 10:42	4° $\mathcal{Q}$ 18'56	
desc. node	13607 Mar 08 12:43	0° $\mathcal{Y}$ 14'53			13609 Sep 24 23:37	0° $\mathbb{M}$	
evening rise	13607 Apr 01 13:22	29° $\mathcal{Y}$ 55'25		morning max el	13609 Sep 27 15:29	2° $\mathbb{M}$ 37'11	46°43'00
	13607 Apr 01 14:51	0° $\mathcal{B}$			13609 Oct 23 12:30	0° $\mathcal{Z}$	
	13607 Apr 25 20:41	0° $\mathbb{I}$			13609 Nov 18 22:19	0° $\mathbb{M}$	
	13607 May 20 01:46	0° $\mathcal{G}$		asc. node	13609 Dec 14 10:42	29° $\mathbb{M}$ 59'28	
	13607 Jun 13 07:50	0° $\mathcal{Q}$			13609 Dec 14 10:53	0° $\mathcal{Z}$	
asc. node	13607 Jun 29 03:50	19° $\mathcal{Q}$ 29'26			13610 Jan 08 11:21	0° $\mathcal{Z}$	
	13607 Jul 07 17:47	0° $\mathbb{M}$			13610 Feb 02 04:10	0° $\approx$	
	13607 Aug 01 11:58	0° $\mathcal{Z}$			13610 Feb 26 16:13	0° $\mathcal{H}$	
	13607 Aug 26 22:23	0° $\mathbb{M}$			13610 Mar 23 01:05	0° $\mathcal{Y}$	
	13607 Sep 22 20:58	0° $\mathcal{Z}$		morning set	13610 Mar 26 17:17	4° $\mathcal{Y}$ 32'09	
evening max el	13607 Oct 03 20:27	11° $\mathcal{Z}$ 17'05	46°24'34	desc. node	13610 Apr 05 03:20	16° $\mathcal{Y}$ 10'33	
desc. node	13607 Oct 19 03:03	25° $\mathcal{Z}$ 26'44			13610 Apr 16 07:11	0° $\mathcal{B}$	
	13607 Oct 24 17:55	0° $\mathcal{Z}$		max. Earth dist.	13610 May 01 17:30	19° $\mathcal{B}$ 09'39	1.72238 AU
greatest brilliancy	13607 Nov 12 05:36	10° $\mathcal{Z}$ 57'34	-4.8m				
retrograde	13607 Nov 22 17:22	12° $\mathcal{Z}$ 59'06		superior conj	13610 May 04 19:36	23° $\mathcal{B}$ 00'10	-1°04'13
evening set	13607 Dec 11 03:51	6° $\mathcal{Z}$ 37'43		minimum elong	13610 May 04 08:24	22° $\mathcal{B}$ 25'19	1°04'36
inferior conj	13607 Dec 14 05:03	4° $\mathcal{Z}$ 44'15	-8°50'57		13610 May 10 10:26	0° $\mathbb{I}$	
minimum elong	13607 Dec 14 05:02	4° $\mathcal{Z}$ 44'17	8°49'54		13610 Jun 03 11:12	0° $\mathcal{G}$	
min. Earth dist.	13607 Dec 13 21:01	4° $\mathcal{Z}$ 56'50	0.28760 AU	evening rise	13610 Jun 13 05:05	12° $\mathcal{G}$ 11'23	
morning rise	13607 Dec 17 06:18	2° $\mathcal{Z}$ 50'48			13610 Jun 27 10:45	0° $\mathcal{Q}$	
	13607 Dec 22 08:29	30° $\mathcal{R}$ $\mathcal{Z}$			13610 Jul 21 10:56	0° $\mathbb{M}$	
direct	13608 Jan 04 11:49	26° $\mathcal{Z}$ 36'24		asc. node	13610 Jul 26 16:56	6° $\mathbb{M}$ 32'39	
greatest brilliancy	13608 Jan 14 15:02	28° $\mathcal{Z}$ 27'44	-4.7m		13610 Aug 14 13:48	0° $\mathcal{Z}$	

	13610 Sep 07 21:47	0°♌		desc. node	13613 May 02 17:31	2°♊20'01	
	13610 Oct 02 14:52	0°♊			13613 May 25 01:14	0°♊	
	13610 Oct 28 00:36	0°♊		morning set	13613 Jun 08 03:18	17°♊33'36	
desc. node	13610 Nov 15 12:49	20°♊59'00			13613 Jun 18 02:08	0°♊	
	13610 Nov 23 19:07	0°♊			13613 Jul 12 00:34	0°♊	
evening max el	13610 Dec 14 02:17	20°♊48'57	45°58'26	max. Earth dist.	13613 Jul 17 11:20	6°♊50'12	1.71439 AU
	13610 Dec 24 01:02	0°♊					
greatest brilliancy	13611 Jan 22 03:05	19°♊11'16	-4.8m	superior conj	13613 Jul 18 02:19	7°♊37'12	-1°14'10
retrograde	13611 Feb 01 01:47	20°♊58'44		minimum elong	13613 Jul 18 13:00	8°♊10'43	1°14'47
evening set	13611 Feb 16 17:09	16°♊14'29			13613 Aug 04 22:23	0°♊	
inferior conj	13611 Feb 22 08:49	12°♊48'56	-3°26'02	asc. node	13613 Aug 23 07:10	23°♊00'52	
minimum elong	13611 Feb 22 16:04	12°♊37'35	3°23'34	evening rise	13613 Aug 27 06:20	27°♊58'34	
min. Earth dist.	13611 Feb 22 18:25	12°♊33'53	0.28515 AU		13613 Aug 28 21:10	0°♊	
morning rise	13611 Feb 28 14:47	9°♊03'35			13613 Sep 21 22:08	0°♌	
asc. node	13611 Mar 08 15:01	5°♊37'42			13613 Oct 16 02:53	0°♊	
direct	13611 Mar 15 16:42	4°♊37'00			13613 Nov 09 14:03	0°♊	
greatest brilliancy	13611 Mar 26 12:17	6°♊46'45	-4.8m		13613 Dec 04 11:28	0°♊	
	13611 Apr 27 23:42	0°♊		desc. node	13613 Dec 12 23:55	10°♊06'30	
morning max el	13611 May 04 09:02	6°♊09'42	46°16'22		13613 Dec 30 00:26	0°♊	
	13611 May 27 00:26	0°♊			13614 Jan 25 14:22	0°♊	
	13611 Jun 22 06:36	0°♊		evening max el	13614 Feb 23 03:14	29°♊44'24	46°00'21
desc. node	13611 Jun 28 16:44	7°♊34'35			13614 Feb 23 09:41	0°♊	
	13611 Jul 17 09:57	0°♊		greatest brilliancy	13614 Apr 03 13:33	28°♊46'34	-4.8m
	13611 Aug 11 00:02	0°♊		asc. node	13614 Apr 05 00:11	29°♊15'01	
	13611 Sep 04 07:47	0°♊			13614 Apr 07 22:03	0°♊	
	13611 Sep 28 13:02	0°♊		retrograde	13614 Apr 13 09:55	0°♊34'53	
asc. node	13611 Oct 19 10:21	25°♊54'33			13614 Apr 18 18:41	30°♊	
	13611 Oct 22 17:28	0°♌		evening set	13614 Apr 29 04:05	25°♊45'34	
morning set	13611 Nov 05 13:47	17°♌11'02		inferior conj	13614 May 04 09:15	22°♊36'32	6°38'32
	13611 Nov 15 21:41	0°♊		minimum elong	13614 May 03 22:25	22°♊53'27	6°35'25
	13611 Dec 10 02:20	0°♊		min. Earth dist.	13614 May 04 09:27	22°♊36'14	0.27852 AU
				morning rise	13614 May 08 16:29	19°♊58'12	
superior conj	13611 Dec 13 00:10	3°♊36'14	1°26'09	direct	13614 May 25 09:07	14°♊32'07	
minimum elong	13611 Dec 12 23:32	3°♊34'17	1°27'13	greatest brilliancy	13614 Jun 04 12:44	16°♊27'32	-4.9m
max. Earth dist.	13611 Dec 15 01:42	6°♊09'33	1.72877 AU		13614 Jun 26 05:07	0°♊	
	13612 Jan 03 08:28	0°♊		morning max el	13614 Jul 14 17:45	17°♊05'50	46°54'31
evening rise	13612 Jan 19 03:56	19°♊29'16		desc. node	13614 Jul 26 03:22	28°♊56'46	
	13612 Jan 27 17:04	0°♊			13614 Jul 27 02:58	0°♊	
desc. node	13612 Feb 08 00:09	13°♊51'47			13614 Aug 22 20:45	0°♊	
	13612 Feb 21 04:16	0°♊			13614 Sep 17 07:44	0°♊	
	13612 Mar 16 17:33	0°♊			13614 Oct 12 05:57	0°♊	
	13612 Apr 10 08:48	0°♊			13614 Nov 05 21:56	0°♌	
	13612 May 05 03:51	0°♊		asc. node	13614 Nov 16 00:01	12°♌19'45	
	13612 May 30 07:55	0°♊			13614 Nov 30 10:02	0°♊	
asc. node	13612 May 30 17:51	0°♊29'12			13614 Dec 24 19:27	0°♊	
	13612 Jun 25 08:31	0°♊		morning set	13615 Jan 14 01:41	24°♊58'32	
evening max el	13612 Jul 20 23:25	27°♊24'55	46°45'39		13615 Jan 18 03:26	0°♊	
	13612 Jul 23 13:50	0°♊			13615 Feb 11 11:03	0°♊	
greatest brilliancy	13612 Aug 29 10:54	27°♊44'59	-4.9m	max. Earth dist.	13615 Feb 19 17:15	10°♊11'22	1.73115 AU
retrograde	13612 Sep 09 05:55	29°♊54'32					
desc. node	13612 Sep 19 19:49	27°♊39'26		superior conj	13615 Feb 20 01:43	10°♊37'28	0°36'26
evening set	13612 Sep 23 20:41	25°♊43'00		minimum elong	13615 Feb 20 09:20	11°♊00'57	0°36'32
min. Earth dist.	13612 Sep 29 13:05	22°♊23'17	0.27308 AU	desc. node	13615 Mar 07 14:37	29°♊47'33	
inferior conj	13612 Sep 30 03:44	22°♊00'49	-2°37'48		13615 Mar 07 18:39	0°♊	
minimum elong	13612 Sep 29 21:50	22°♊09'53	2°35'41	evening rise	13615 Mar 30 04:40	27°♊40'47	
morning rise	13612 Oct 05 23:37	18°♊35'16			13615 Apr 01 01:45	0°♊	
direct	13612 Oct 21 00:33	14°♊14'37			13615 Apr 25 07:46	0°♊	
greatest brilliancy	13612 Oct 30 13:50	15°♊55'02	-4.8m		13615 May 19 13:08	0°♊	
	13612 Nov 22 17:40	0°♌			13615 Jun 12 19:34	0°♊	
morning max el	13612 Dec 09 04:21	14°♌42'57	45°59'04	asc. node	13615 Jun 28 05:42	18°♊58'16	
	13612 Dec 24 07:29	0°♊			13615 Jul 07 06:03	0°♊	
asc. node	13613 Jan 10 21:54	19°♊03'23			13615 Aug 01 01:08	0°♊	
	13613 Jan 20 15:42	0°♊			13615 Aug 26 13:17	0°♌	
	13613 Feb 15 12:46	0°♊			13615 Sep 22 16:03	0°♊	
	13613 Mar 12 16:17	0°♊		evening max el	13615 Oct 01 11:11	8°♊59'35	46°25'42
	13613 Apr 06 09:39	0°♊		desc. node	13615 Oct 18 04:58	24°♊23'59	
	13613 Apr 30 20:09	0°♊			13615 Oct 25 09:23	0°♊	

greatest brilliancy	13615 Nov 09 19:42	8° $\text{♁}$ 42'05	-4.8m		13618 Apr 15 18:02	0° $\text{♁}$	
retrograde	13615 Nov 20 09:19	10° $\text{♁}$ 45'33		max. Earth dist.	13618 Apr 29 06:35	16° $\text{♁}$ 47'23	1.72276 AU
evening set	13615 Dec 08 18:17	4° $\text{♁}$ 25'27					
inferior conj	13615 Dec 11 20:28	2° $\text{♁}$ 30'46	-8°50'44	superior conj	13618 May 02 09:09	20° $\text{♁}$ 39'12	-1°01'40
minimum elong	13615 Dec 11 19:36	2° $\text{♁}$ 32'07	8°49'41	minimum elong	13618 May 01 21:59	20° $\text{♁}$ 04'29	1°02'00
min. Earth dist.	13615 Dec 11 11:11	2° $\text{♁}$ 45'15	0.28734 AU		13618 May 09 21:19	0° $\text{♁}$	
morning rise	13615 Dec 14 21:00	0° $\text{♁}$ 38'40			13618 Jun 02 22:10	0° $\text{♁}$	
	13615 Dec 15 22:51	30° $\text{♁}$ 7		evening rise	13618 Jun 10 17:16	9° $\text{♁}$ 44'56	
direct	13616 Jan 02 02:56	24° $\text{♁}$ 23'19			13618 Jun 26 21:51	0° $\text{♁}$	
greatest brilliancy	13616 Jan 12 05:15	26° $\text{♁}$ 14'13	-4.7m		13618 Jul 20 22:13	0° $\text{♁}$	
	13616 Jan 20 09:07	0° $\text{♁}$		asc. node	13618 Jul 25 18:53	6° $\text{♁}$ 03'27	
asc. node	13616 Feb 08 07:49	13° $\text{♁}$ 51'32			13618 Aug 14 01:21	0° $\text{♁}$	
morning max el	13616 Feb 20 03:09	24° $\text{♁}$ 43'23	45°43'58		13618 Sep 07 09:44	0° $\text{♁}$	
	13616 Feb 25 11:17	0° $\text{♁}$			13618 Oct 02 03:30	0° $\text{♁}$	
	13616 Mar 24 10:53	0° $\text{♁}$			13618 Oct 27 14:36	0° $\text{♁}$	
	13616 Apr 19 11:33	0° $\text{♁}$		desc. node	13618 Nov 14 14:43	20° $\text{♁}$ 20'31	
	13616 May 14 14:40	0° $\text{♁}$			13618 Nov 23 12:16	0° $\text{♁}$	
desc. node	13616 May 30 06:42	19° $\text{♁}$ 02'40		evening max el	13618 Dec 11 17:36	18° $\text{♁}$ 36'02	45°58'54
	13616 Jun 08 05:11	0° $\text{♁}$			13618 Dec 24 05:38	0° $\text{♁}$	
	13616 Jul 02 11:38	0° $\text{♁}$		greatest brilliancy	13619 Jan 19 18:57	16° $\text{♁}$ 59'30	-4.8m
	13616 Jul 26 13:19	0° $\text{♁}$		retrograde	13619 Jan 29 16:44	18° $\text{♁}$ 46'04	
	13616 Aug 19 12:57	0° $\text{♁}$		evening set	13619 Feb 14 11:03	13° $\text{♁}$ 58'44	
morning set	13616 Aug 21 19:59	2° $\text{♁}$ 52'12		inferior conj	13619 Feb 20 00:27	10° $\text{♁}$ 36'08	-3°45'19
	13616 Sep 12 12:23	0° $\text{♁}$		minimum elong	13619 Feb 20 08:14	10° $\text{♁}$ 23'55	3°42'42
asc. node	13616 Sep 19 21:42	9° $\text{♁}$ 14'07		min. Earth dist.	13619 Feb 20 10:19	10° $\text{♁}$ 20'38	0.28539 AU
				morning rise	13619 Feb 26 05:13	6° $\text{♁}$ 52'02	
superior conj	13616 Sep 30 03:43	22° $\text{♁}$ 02'31	0°24'40	asc. node	13619 Mar 07 17:01	3° $\text{♁}$ 02'41	
minimum elong	13616 Sep 29 21:55	21° $\text{♁}$ 44'22	0°24'40	direct	13619 Mar 13 08:33	2° $\text{♁}$ 24'11	
max. Earth dist.	13616 Oct 02 01:47	24° $\text{♁}$ 26'18	1.71953 AU	greatest brilliancy	13619 Mar 24 04:03	4° $\text{♁}$ 33'27	-4.8m
	13616 Oct 06 12:43	0° $\text{♁}$			13619 Apr 27 23:56	0° $\text{♁}$	
	13616 Oct 30 14:45	0° $\text{♁}$		morning max el	13619 May 01 23:18	3° $\text{♁}$ 52'05	46°14'52
evening rise	13616 Nov 07 03:33	9° $\text{♁}$ 21'28			13619 May 26 16:46	0° $\text{♁}$	
	13616 Nov 23 19:38	0° $\text{♁}$			13619 Jun 21 20:22	0° $\text{♁}$	
	13616 Dec 18 05:05	0° $\text{♁}$		desc. node	13619 Jun 27 18:48	7° $\text{♁}$ 01'00	
desc. node	13617 Jan 09 12:25	27° $\text{♁}$ 09'44			13619 Jul 16 22:30	0° $\text{♁}$	
	13617 Jan 11 20:41	0° $\text{♁}$			13619 Aug 10 11:55	0° $\text{♁}$	
	13617 Feb 05 19:40	0° $\text{♁}$			13619 Sep 03 19:17	0° $\text{♁}$	
	13617 Mar 03 03:36	0° $\text{♁}$			13619 Sep 28 00:15	0° $\text{♁}$	
	13617 Mar 29 01:47	0° $\text{♁}$		asc. node	13619 Oct 18 12:08	25° $\text{♁}$ 25'57	
	13617 Apr 25 07:40	0° $\text{♁}$			13619 Oct 22 04:27	0° $\text{♁}$	
asc. node	13617 May 02 09:25	7° $\text{♁}$ 19'47		morning set	13619 Nov 03 04:51	14° $\text{♁}$ 55'09	
evening max el	13617 May 06 12:21	11° $\text{♁}$ 28'06	46°28'47		13619 Nov 15 08:29	0° $\text{♁}$	
	13617 May 27 02:37	0° $\text{♁}$			13619 Dec 09 13:02	0° $\text{♁}$	
greatest brilliancy	13617 Jun 15 21:35	11° $\text{♁}$ 41'24	-4.9m				
retrograde	13617 Jun 25 11:07	13° $\text{♁}$ 24'26		superior conj	13619 Dec 10 16:42	1° $\text{♁}$ 25'41	1°26'00
evening set	13617 Jul 12 16:25	7° $\text{♁}$ 41'30		minimum elong	13619 Dec 10 15:17	1° $\text{♁}$ 21'18	1°27'02
inferior conj	13617 Jul 16 02:06	5° $\text{♁}$ 37'43	8°02'55	max. Earth dist.	13619 Dec 12 18:52	4° $\text{♁}$ 00'59	1.72850 AU
minimum elong	13617 Jul 16 11:47	5° $\text{♁}$ 22'52	8°00'30		13620 Jan 02 19:11	0° $\text{♁}$	
min. Earth dist.	13617 Jul 16 15:22	5° $\text{♁}$ 17'23	0.27197 AU	evening rise	13620 Jan 16 19:59	17° $\text{♁}$ 17'45	
morning rise	13617 Jul 20 07:04	3° $\text{♁}$ 05'42			13620 Jan 27 03:54	0° $\text{♁}$	
	13617 Jul 26 09:43	30° $\text{♁}$ 7		desc. node	13620 Feb 07 02:02	13° $\text{♁}$ 24'09	
direct	13617 Aug 05 21:19	27° $\text{♁}$ 45'51			13620 Feb 20 15:20	0° $\text{♁}$	
greatest brilliancy	13617 Aug 15 23:18	29° $\text{♁}$ 41'14	-4.9m		13620 Mar 16 04:56	0° $\text{♁}$	
	13617 Aug 16 19:12	0° $\text{♁}$			13620 Apr 09 20:39	0° $\text{♁}$	
desc. node	13617 Aug 22 12:45	2° $\text{♁}$ 41'33			13620 May 04 16:27	0° $\text{♁}$	
	13617 Sep 24 23:24	0° $\text{♁}$		asc. node	13620 May 29 19:51	29° $\text{♁}$ 54'13	
morning max el	13617 Sep 25 05:41	0° $\text{♁}$ 15'37	46°44'14		13620 May 29 21:50	0° $\text{♁}$	
	13617 Oct 23 05:05	0° $\text{♁}$			13620 Jun 25 01:05	0° $\text{♁}$	
	13617 Nov 18 12:14	0° $\text{♁}$		evening max el	13620 Jul 18 12:28	25° $\text{♁}$ 00'40	46°45'34
asc. node	13617 Dec 13 12:37	29° $\text{♁}$ 27'47			13620 Jul 23 14:02	0° $\text{♁}$	
	13617 Dec 13 23:26	0° $\text{♁}$		greatest brilliancy	13620 Aug 27 02:17	25° $\text{♁}$ 24'18	-4.9m
	13618 Jan 07 23:08	0° $\text{♁}$		retrograde	13620 Sep 06 19:09	27° $\text{♁}$ 32'17	
	13618 Feb 01 15:29	0° $\text{♁}$		desc. node	13620 Sep 18 21:44	24° $\text{♁}$ 37'09	
	13618 Feb 26 03:15	0° $\text{♁}$		evening set	13620 Sep 21 09:35	23° $\text{♁}$ 22'03	
	13618 Mar 22 11:58	0° $\text{♁}$		min. Earth dist.	13620 Sep 27 04:01	19° $\text{♁}$ 59'45	0.27267 AU
morning set	13618 Mar 24 08:31	2° $\text{♁}$ 17'26		inferior conj	13620 Sep 27 17:09	19° $\text{♁}$ 39'36	-2°15'14
desc. node	13618 Apr 04 05:08	15° $\text{♁}$ 42'31		minimum elong	13620 Sep 27 12:02	19° $\text{♁}$ 47'27	2°13'22

morning rise	13620 Oct 03 15:00	16°♌11'11			13623 May 19 00:14	0°♏	
direct	13620 Oct 18 13:04	11°♌53'40			13623 Jun 12 07:03	0°♏	
greatest brilliancy	13620 Oct 28 04:15	13°♌35'21	-4.8m	asc. node	13623 Jun 27 07:40	18°♏28'11	
	13620 Nov 23 02:35	0°♍			13623 Jul 06 18:05	0°♎	
morning max el	13620 Dec 06 17:13	12°♍22'25	46°00'26		13623 Jul 31 14:04	0°♌	
	13620 Dec 24 01:33	0°♊			13623 Aug 26 03:59	0°♍	
asc. node	13621 Jan 09 23:58	18°♊26'32			13623 Sep 22 11:09	0°♊	
	13621 Jan 20 05:56	0°♊		evening max el	13623 Sep 29 02:50	6°♊45'50	46°26'53
	13621 Feb 15 01:19	0°♋		desc. node	13623 Oct 17 06:54	23°♊21'17	
	13621 Mar 12 04:00	0°♋			13623 Oct 26 05:13	0°♊	
	13621 Apr 05 20:55	0°♌		greatest brilliancy	13623 Nov 07 09:38	6°♊28'10	-4.8m
	13621 Apr 30 07:09	0°♌		retrograde	13623 Nov 18 01:38	8°♊33'40	
desc. node	13621 May 01 19:17	1°♌51'28		evening set	13623 Dec 06 08:31	2°♊15'30	
	13621 May 24 12:05	0°♍		min. Earth dist.	13623 Dec 09 01:12	0°♊35'47	0.28707 AU
morning set	13621 Jun 05 15:04	15°♍06'42		inferior conj	13623 Dec 09 12:01	0°♊18'55	-8°49'42
	13621 Jun 17 12:55	0°♏		minimum elong	13623 Dec 09 10:20	0°♊21'32	8°48'37
	13621 Jul 11 11:18	0°♏			13623 Dec 10 00:10	30°♋♊	
max. Earth dist.	13621 Jul 14 17:54	4°♏06'36	1.71444 AU	morning rise	13623 Dec 12 12:16	28°♊27'30	
				direct	13623 Dec 30 18:45	22°♊12'07	
superior conj	13621 Jul 15 14:26	5°♏11'00	-1°16'08	greatest brilliancy	13624 Jan 09 19:05	24°♊01'48	-4.7m
minimum elong	13621 Jul 16 00:39	5°♏43'03	1°16'47		13624 Jan 21 15:45	0°♋	
	13621 Aug 04 09:07	0°♎		asc. node	13624 Feb 07 09:45	12°♋55'11	
asc. node	13621 Aug 22 08:58	22°♎32'52		morning max el	13624 Feb 17 19:16	22°♋33'19	45°43'33
evening rise	13621 Aug 24 19:07	25°♎34'48			13624 Feb 25 06:53	0°♋	
	13621 Aug 28 07:55	0°♌			13624 Mar 24 01:29	0°♋	
	13621 Sep 21 08:59	0°♍			13624 Apr 19 00:15	0°♌	
	13621 Oct 15 13:56	0°♊			13624 May 14 02:26	0°♌	
	13621 Nov 09 01:27	0°♊		desc. node	13624 May 29 08:41	18°♌33'48	
	13621 Dec 03 23:32	0°♋			13624 Jun 07 16:28	0°♍	
desc. node	13621 Dec 12 01:52	9°♋35'45			13624 Jul 01 22:38	0°♏	
	13621 Dec 29 13:43	0°♋			13624 Jul 26 00:08	0°♏	
	13622 Jan 25 06:13	0°♌			13624 Aug 18 23:37	0°♎	
evening max el	13622 Feb 20 17:19	27°♌27'44	45°59'48	morning set	13624 Aug 19 08:49	0°♎28'50	
	13622 Feb 23 08:47	0°♌			13624 Sep 11 22:56	0°♌	
greatest brilliancy	13622 Apr 01 02:54	26°♌27'51	-4.8m	asc. node	13624 Sep 18 23:29	8°♌46'45	
asc. node	13622 Apr 04 02:04	27°♌22'13					
retrograde	13622 Apr 11 00:17	28°♌17'12		superior conj	13624 Sep 27 17:35	19°♌43'08	0°21'08
evening set	13622 Apr 26 15:07	23°♌31'45		minimum elong	13624 Sep 27 12:32	19°♌27'20	0°21'09
inferior conj	13622 May 01 23:38	20°♌18'10	6°22'32	max. Earth dist.	13624 Sep 29 17:30	22°♌12'44	1.71919 AU
minimum elong	13622 May 01 12:49	20°♌35'01	6°19'21		13624 Oct 05 23:12	0°♍	
min. Earth dist.	13622 May 01 23:41	20°♌18'05	0.27872 AU		13624 Oct 30 01:12	0°♊	
morning rise	13622 May 06 10:17	17°♌35'05		evening rise	13624 Nov 04 19:28	7°♊09'30	
direct	13622 May 22 23:42	12°♌13'13			13624 Nov 23 06:09	0°♊	
greatest brilliancy	13622 Jun 02 04:07	14°♌09'42	-4.9m		13624 Dec 17 15:46	0°♋	
	13622 Jun 26 13:54	0°♍		desc. node	13625 Jan 08 14:20	26°♋42'10	
morning max el	13622 Jul 12 08:44	14°♍47'37	46°54'01		13625 Jan 11 07:45	0°♋	
desc. node	13622 Jul 25 05:18	28°♍12'13			13625 Feb 05 07:22	0°♌	
	13622 Jul 26 21:12	0°♏			13625 Mar 02 16:22	0°♌	
	13622 Aug 22 11:17	0°♏			13625 Mar 28 16:30	0°♍	
	13622 Sep 16 20:36	0°♎			13625 Apr 25 02:54	0°♏	
	13622 Oct 11 17:52	0°♌		asc. node	13625 May 01 11:30	6°♏31'17	
	13622 Nov 05 09:14	0°♍		evening max el	13625 May 04 02:31	9°♏08'41	46°27'39
asc. node	13622 Nov 15 01:55	11°♍51'29			13625 May 27 19:04	0°♏	
	13622 Nov 29 20:56	0°♊		greatest brilliancy	13625 Jun 13 10:38	9°♏18'16	-4.9m
	13622 Dec 24 06:06	0°♊		retrograde	13625 Jun 22 23:59	11°♏00'44	
morning set	13623 Jan 11 18:43	22°♊50'28		evening set	13625 Jul 10 08:48	5°♏12'53	
	13623 Jan 17 13:57	0°♋		inferior conj	13625 Jul 13 15:03	3°♏13'50	8°14'10
	13623 Feb 10 21:31	0°♋		minimum elong	13625 Jul 14 00:12	2°♏59'46	8°11'54
				min. Earth dist.	13625 Jul 14 04:04	2°♏53'49	0.27224 AU
superior conj	13623 Feb 17 17:45	8°♋26'33	0°39'30	morning rise	13625 Jul 17 15:32	0°♏47'59	
minimum elong	13623 Feb 18 01:50	8°♋51'31	0°39'37		13625 Jul 19 01:13	30°♋♏	
max. Earth dist.	13623 Feb 17 13:53	8°♋14'37	1.73127 AU	direct	13625 Aug 03 10:48	25°♏21'40	
desc. node	13623 Mar 06 16:19	29°♋20'25		greatest brilliancy	13625 Aug 13 11:52	27°♏16'06	-4.9m
	13623 Mar 07 05:09	0°♌			13625 Aug 19 13:10	0°♏	
evening rise	13623 Mar 27 19:55	25°♌26'57		desc. node	13625 Aug 21 14:42	1°♏08'58	
	13623 Mar 31 12:21	0°♌		morning max el	13625 Sep 22 19:07	27°♏53'18	46°45'27
	13623 Apr 24 18:35	0°♍			13625 Sep 24 21:39	0°♎	

	13625 Oct 22 20:55	0°♄				13628 Jun 24 17:48	0°♍	
	13625 Nov 18 01:33	0°♌		evening max el		13628 Jul 16 01:05	22°♍35'52	46°45'36
asc. node	13625 Dec 12 14:37	28°♌57'54				13628 Jul 23 15:19	0°♄	
	13625 Dec 13 11:27	0°♌		greatest brilliancy		13628 Aug 24 17:13	23°♄03'23	-4.9m
	13626 Jan 07 10:22	0°♌		retrograde		13628 Sep 04 08:31	25°♄10'31	
	13626 Feb 01 02:15	0°♌		desc. node		13628 Sep 17 23:43	21°♄30'43	
	13626 Feb 25 13:47	0°♌		evening set		13628 Sep 18 22:37	21°♄00'52	
morning set	13626 Mar 21 23:51	0°♌04'24		inferior conj		13628 Sep 25 06:29	17°♄18'36	-1°52'15
	13626 Mar 21 22:26	0°♌		minimum elong		13628 Sep 25 02:12	17°♄25'10	1°50'41
desc. node	13626 Apr 03 06:57	15°♌15'51		min. Earth dist.		13628 Sep 24 18:43	17°♄36'36	0.27230 AU
	13626 Apr 15 04:30	0°♌		morning rise		13628 Oct 01 06:12	13°♄47'45	
max. Earth dist.	13626 Apr 26 18:11	14°♌21'47	1.72316 AU	direct		13628 Oct 16 01:32	9°♄32'43	
				greatest brilliancy		13628 Oct 25 18:35	11°♄15'59	-4.8m
superior conj	13626 Apr 29 22:44	18°♌19'39	-0°59'00			13628 Nov 23 08:46	0°♌	
minimum elong	13626 Apr 29 11:40	17°♌45'14	0°59'18	morning max el		13628 Dec 04 06:46	10°♌04'00	46°01'52
	13626 May 09 07:49	0°♌				13628 Dec 23 19:00	0°♌	
	13626 Jun 02 08:44	0°♌		asc. node		13629 Jan 09 01:47	17°♌49'50	
evening rise	13626 Jun 08 05:24	7°♌19'36				13629 Jan 19 19:49	0°♌	
	13626 Jun 26 08:32	0°♌				13629 Feb 14 13:38	0°♌	
	13626 Jul 20 09:06	0°♌				13629 Mar 11 15:30	0°♌	
asc. node	13626 Jul 24 20:40	5°♌35'02				13629 Apr 05 07:58	0°♌	
	13626 Aug 13 12:31	0°♌				13629 Apr 29 17:58	0°♌	
	13626 Sep 06 21:21	0°♌		desc. node		13629 Apr 30 21:16	1°♌24'17	
	13626 Oct 01 15:50	0°♌				13629 May 23 22:47	0°♌	
	13626 Oct 27 04:19	0°♌		morning set		13629 Jun 03 02:55	12°♌40'31	
desc. node	13626 Nov 13 16:48	19°♌43'26				13629 Jun 16 23:35	0°♌	
	13626 Nov 23 05:17	0°♌				13629 Jul 10 21:59	0°♌	
evening max el	13626 Dec 09 08:07	16°♌22'35	45°59'32	max. Earth dist.		13629 Jul 12 01:57	1°♌27'44	1.71456 AU
	13626 Dec 24 11:32	0°♌						
greatest brilliancy	13627 Jan 17 11:06	14°♌49'53	-4.8m	superior conj		13629 Jul 13 02:15	2°♌43'58	-1°17'58
retrograde	13627 Jan 27 07:39	16°♌35'43		minimum elong		13629 Jul 13 11:53	3°♌14'14	1°18'41
evening set	13627 Feb 12 05:13	11°♌44'52				13629 Aug 03 19:50	0°♌	
inferior conj	13627 Feb 17 16:19	8°♌25'33	-4°04'04	asc. node		13629 Aug 21 10:44	22°♌04'51	
minimum elong	13627 Feb 18 00:36	8°♌12'33	4°01'19	evening rise		13629 Aug 22 07:24	23°♌09'32	
min. Earth dist.	13627 Feb 18 02:34	8°♌09'27	0.28566 AU			13629 Aug 27 18:40	0°♌	
morning rise	13627 Feb 23 19:42	4°♌42'59				13629 Sep 20 19:49	0°♌	
asc. node	13627 Mar 06 18:57	0°♌34'45				13629 Oct 15 00:59	0°♌	
direct	13627 Mar 11 00:12	0°♌13'24				13629 Nov 08 12:54	0°♌	
greatest brilliancy	13627 Mar 21 20:30	2°♌22'49	-4.8m			13629 Dec 03 11:40	0°♌	
	13627 Apr 27 22:34	0°♌		desc. node		13629 Dec 11 03:47	9°♌04'45	
morning max el	13627 Apr 29 13:21	1°♌35'10	46°13'14			13629 Dec 29 03:09	0°♌	
	13627 May 26 08:27	0°♌				13630 Jan 24 22:20	0°♌	
	13627 Jun 21 09:41	0°♌		evening max el		13630 Feb 18 08:25	25°♌13'51	45°59'24
desc. node	13627 Jun 26 20:42	6°♌27'59				13630 Feb 23 08:55	0°♌	
	13627 Jul 16 10:42	0°♌		greatest brilliancy		13630 Mar 29 16:06	24°♌09'42	-4.8m
	13627 Aug 09 23:28	0°♌		asc. node		13630 Apr 03 04:08	25°♌25'41	
	13627 Sep 03 06:25	0°♌		retrograde		13630 Apr 08 15:11	26°♌00'12	
	13627 Sep 27 11:06	0°♌		evening set		13630 Apr 24 02:32	21°♌18'34	
asc. node	13627 Oct 17 14:01	24°♌58'39		inferior conj		13630 Apr 29 14:09	18°♌00'31	6°05'56
	13627 Oct 21 15:06	0°♌		minimum elong		13630 Apr 29 03:26	18°♌17'12	6°02'43
morning set	13627 Oct 31 19:44	12°♌39'33		min. Earth dist.		13630 Apr 29 13:47	18°♌01'06	0.27888 AU
	13627 Nov 14 18:59	0°♌		morning rise		13630 May 04 04:08	15°♌12'48	
				direct		13630 May 20 14:51	9°♌55'21	
superior conj	13627 Dec 08 09:18	29°♌16'12	1°25'42	greatest brilliancy		13630 May 30 18:56	11°♌51'59	-4.9m
minimum elong	13627 Dec 08 07:06	29°♌09'23	1°26'44			13630 Jun 26 20:03	0°♌	
	13627 Dec 08 23:27	0°♌		morning max el		13630 Jul 10 00:08	12°♌30'41	46°53'10
max. Earth dist.	13627 Dec 10 09:42	1°♌46'06	1.72820 AU	desc. node		13630 Jul 24 07:15	27°♌28'19	
	13628 Jan 02 05:36	0°♌				13630 Jul 26 15:00	0°♌	
evening rise	13628 Jan 14 12:16	15°♌07'58				13630 Aug 22 01:44	0°♌	
	13628 Jan 26 14:24	0°♌				13630 Sep 16 09:30	0°♌	
desc. node	13628 Feb 06 03:48	12°♌57'10				13630 Oct 11 05:52	0°♌	
	13628 Feb 20 02:03	0°♌				13630 Nov 04 20:38	0°♌	
	13628 Mar 15 16:00	0°♌		asc. node		13630 Nov 14 03:52	11°♌23'03	
	13628 Apr 09 08:14	0°♌				13630 Nov 29 07:56	0°♌	
	13628 May 04 04:52	0°♌				13630 Dec 23 16:52	0°♌	
asc. node	13628 May 28 21:48	29°♌19'25		morning set		13631 Jan 09 11:35	20°♌41'37	
	13628 May 29 11:40	0°♌				13631 Jan 17 00:35	0°♌	

	13631 Feb 10 08:08	0° $\text{H}$		minimum elong	13633 Jul 11 12:45	0° $\Omega$ 36'44	8°22'17
				min. Earth dist.	13633 Jul 11 17:13	0° $\Omega$ 29'51	0.27245 AU
superior conj	13631 Feb 15 09:48	6° $\text{H}$ 15'18 0°42'30			13633 Jul 12 12:37	30° $\text{R}$ $\text{S}$	
minimum elong	13631 Feb 15 18:19	6° $\text{H}$ 41'33 0°42'38		morning rise	13633 Jul 15 00:13	28° $\text{S}$ 30'14	
max. Earth dist.	13631 Feb 15 10:19	6° $\text{H}$ 16'51 1.73134 AU		direct	13633 Jul 31 23:51	22° $\text{S}$ 57'21	
desc. node	13631 Mar 05 18:13	28° $\text{H}$ 53'28		greatest brilliancy	13633 Aug 11 01:02	24° $\text{S}$ 51'24	-4.9m
	13631 Mar 06 15:48	0° $\text{Y}$		desc. node	13633 Aug 20 16:42	29° $\text{S}$ 39'22	
evening rise	13631 Mar 25 11:19	23° $\text{Y}$ 13'08			13633 Aug 21 05:59	0° $\Omega$	
	13631 Mar 30 23:06	0° $\text{B}$		morning max el	13633 Sep 20 07:48	25° $\Omega$ 28'26	46°46'34
	13631 Apr 24 05:31	0° $\text{II}$			13633 Sep 24 19:16	0° $\text{M}$	
	13631 May 18 11:26	0° $\text{S}$			13633 Oct 22 12:46	0° $\text{S}$	
	13631 Jun 11 18:38	0° $\Omega$			13633 Nov 17 15:06	0° $\text{M}$	
asc. node	13631 Jun 26 09:29	17° $\Omega$ 57'19		asc. node	13633 Dec 11 16:25	28° $\text{M}$ 26'21	
	13631 Jul 06 06:16	0° $\text{M}$			13633 Dec 12 23:47	0° $\text{S}$	
	13631 Jul 31 03:16	0° $\text{S}$			13634 Jan 06 21:59	0° $\text{S}$	
	13631 Aug 25 19:09	0° $\text{M}$			13634 Jan 31 13:27	0° $\approx$	
	13631 Sep 22 07:16	0° $\text{S}$			13634 Feb 25 00:45	0° $\text{H}$	
evening max el	13631 Sep 26 18:47	4° $\text{S}$ 31'36 46°27'55		morning set	13634 Mar 19 15:01	27° $\text{H}$ 49'34	
desc. node	13631 Oct 16 09:01	22° $\text{S}$ 15'59			13634 Mar 21 09:17	0° $\text{Y}$	
	13631 Oct 27 09:35	0° $\text{S}$		desc. node	13634 Apr 02 08:50	14° $\text{Y}$ 48'10	
greatest brilliancy	13631 Nov 04 23:57	4° $\text{S}$ 13'07 -4.8m			13634 Apr 14 15:21	0° $\text{B}$	
retrograde	13631 Nov 15 17:39	6° $\text{S}$ 19'43		max. Earth dist.	13634 Apr 24 06:51	11° $\text{B}$ 58'20	1.72358 AU
evening set	13631 Dec 03 22:07	0° $\text{S}$ 04'30					
	13631 Dec 04 01:05	30° $\text{R}$ $\text{S}$		superior conj	13634 Apr 27 12:15	15° $\text{B}$ 58'45	-0°56'14
min. Earth dist.	13631 Dec 06 15:00	28° $\text{S}$ 24'26 0.28675 AU		minimum elong	13634 Apr 27 01:21	15° $\text{B}$ 24'54	0°56'29
inferior conj	13631 Dec 07 03:18	28° $\text{S}$ 05'16 -8°47'49			13634 May 08 18:43	0° $\text{II}$	
minimum elong	13631 Dec 07 00:48	28° $\text{S}$ 09'09 8°46'42			13634 Jun 01 19:42	0° $\text{S}$	
morning rise	13631 Dec 10 03:38	26° $\text{S}$ 13'47		evening rise	13634 Jun 05 17:38	4° $\text{S}$ 53'27	
direct	13631 Dec 28 10:23	19° $\text{S}$ 59'21			13634 Jun 25 19:37	0° $\Omega$	
greatest brilliancy	13632 Jan 07 08:13	21° $\text{S}$ 47'07 -4.7m			13634 Jul 19 20:20	0° $\text{M}$	
	13632 Jan 22 14:22	0° $\text{S}$		asc. node	13634 Jul 23 22:30	5° $\text{M}$ 05'38	
asc. node	13632 Feb 06 11:46	11° $\text{S}$ 59'10			13634 Aug 13 00:01	0° $\text{S}$	
morning max el	13632 Feb 15 10:31	20° $\text{S}$ 20'13 45°43'12			13634 Sep 06 09:16	0° $\text{M}$	
	13632 Feb 25 02:15	0° $\approx$			13634 Oct 01 04:30	0° $\text{S}$	
	13632 Mar 23 16:12	0° $\text{H}$			13634 Oct 26 18:31	0° $\text{S}$	
	13632 Apr 18 13:08	0° $\text{Y}$		desc. node	13634 Nov 12 18:40	19° $\text{S}$ 04'15	
	13632 May 13 14:25	0° $\text{B}$			13634 Nov 22 23:10	0° $\approx$	
desc. node	13632 May 28 10:33	18° $\text{B}$ 03'52		evening max el	13634 Dec 06 22:00	14° $\approx$ 06'11	46°00'01
	13632 Jun 07 03:56	0° $\text{II}$			13634 Dec 24 20:41	0° $\text{H}$	
	13632 Jul 01 09:49	0° $\text{S}$		greatest brilliancy	13635 Jan 15 02:58	12° $\text{H}$ 38'11	-4.8m
	13632 Jul 25 11:07	0° $\Omega$		retrograde	13635 Jan 24 22:41	14° $\text{H}$ 23'45	
morning set	13632 Aug 16 21:50	28° $\Omega$ 05'22		evening set	13635 Feb 09 23:20	9° $\text{H}$ 28'55	
	13632 Aug 18 10:28	0° $\text{M}$		inferior conj	13635 Feb 15 08:04	6° $\text{H}$ 13'12	-4°22'24
	13632 Sep 11 09:44	0° $\text{S}$		minimum elong	13635 Feb 15 16:47	5° $\text{H}$ 59'29	4°19'33
asc. node	13632 Sep 18 01:25	8° $\text{S}$ 19'06		min. Earth dist.	13635 Feb 15 18:44	5° $\text{H}$ 56'26	0.28596 AU
				morning rise	13635 Feb 21 09:55	2° $\text{H}$ 32'37	
superior conj	13632 Sep 25 07:19	17° $\text{S}$ 22'25 0°17'34			13635 Feb 26 16:35	30° $\text{R}$ $\approx$	
minimum elong	13632 Sep 25 03:04	17° $\text{S}$ 09'09 0°17'34		asc. node	13635 Mar 05 21:01	28° $\approx$ 09'51	
max. Earth dist.	13632 Sep 27 08:51	19° $\text{S}$ 57'07 1.71890 AU		direct	13635 Mar 08 15:30	28° $\approx$ 00'40	
	13632 Oct 05 09:59	0° $\text{M}$			13635 Mar 19 01:27	0° $\text{H}$	
	13632 Oct 29 12:00	0° $\text{S}$		greatest brilliancy	13635 Mar 19 13:07	0° $\text{H}$ 10'53	-4.8m
evening rise	13632 Nov 02 11:00	4° $\text{S}$ 55'09		morning max el	13635 Apr 27 03:52	29° $\text{H}$ 18'02	46°11'45
	13632 Nov 22 17:02	0° $\text{S}$			13635 Apr 27 20:50	0° $\text{Y}$	
	13632 Dec 17 02:51	0° $\approx$			13635 May 26 00:19	0° $\text{B}$	
desc. node	13633 Jan 07 16:06	26° $\approx$ 12'59			13635 Jun 20 23:18	0° $\text{II}$	
	13633 Jan 10 19:13	0° $\text{H}$		desc. node	13635 Jun 25 22:33	5° $\text{II}$ 53'47	
	13633 Feb 04 19:30	0° $\text{Y}$			13635 Jul 15 23:12	0° $\text{S}$	
	13633 Mar 02 05:38	0° $\text{B}$			13635 Aug 09 11:21	0° $\Omega$	
	13633 Mar 28 07:49	0° $\text{II}$			13635 Sep 02 17:53	0° $\text{M}$	
	13633 Apr 24 23:09	0° $\text{S}$			13635 Sep 26 22:16	0° $\text{S}$	
asc. node	13633 Apr 30 13:31	5° $\text{S}$ 40'42		asc. node	13635 Oct 16 15:52	24° $\text{S}$ 30'25	
evening max el	13633 May 01 15:59	6° $\text{S}$ 46'27 46°26'35			13635 Oct 21 02:01	0° $\text{M}$	
	13633 May 28 17:49	0° $\Omega$		morning set	13635 Oct 29 10:58	10° $\text{M}$ 24'06	
greatest brilliancy	13633 Jun 11 00:29	6° $\Omega$ 55'26 -4.9m			13635 Nov 14 05:44	0° $\text{S}$	
retrograde	13633 Jun 20 12:36	8° $\Omega$ 36'47					
evening set	13633 Jul 08 01:13	2° $\Omega$ 44'21		superior conj	13635 Dec 06 02:09	27° $\text{S}$ 06'33	1°25'16
inferior conj	13633 Jul 11 04:14	0° $\Omega$ 49'54 8°24'22		minimum elong	13635 Dec 05 23:12	26° $\text{S}$ 57'25	1°26'18

max. Earth dist.	13635 Dec 08 01:02	29° $\text{♁}$ 31'46	1.72797 AU	morning max el	13638 Jul 07 15:14	10° $\text{♁}$ 12'26	46°52'14
	13635 Dec 08 10:09	0° $\text{♁}$		desc. node	13638 Jul 23 09:18	26° $\text{♁}$ 44'39	
	13636 Jan 01 16:21	0° $\text{♁}$			13638 Jul 26 08:38	0° $\text{♁}$	
evening rise	13636 Jan 12 04:42	12° $\text{♁}$ 57'36			13638 Aug 21 16:11	0° $\text{♁}$	
	13636 Jan 26 01:18	0° $\text{♁}$			13638 Sep 15 22:28	0° $\text{♁}$	
desc. node	13636 Feb 05 05:42	12° $\text{♁}$ 29'24			13638 Oct 10 17:56	0° $\text{♁}$	
	13636 Feb 19 13:11	0° $\text{♁}$			13638 Nov 04 08:07	0° $\text{♁}$	
	13636 Mar 15 03:29	0° $\text{♁}$		asc. node	13638 Nov 13 05:37	10° $\text{♁}$ 53'39	
	13636 Apr 08 20:16	0° $\text{♁}$			13638 Nov 28 19:02	0° $\text{♁}$	
	13636 May 03 17:45	0° $\text{♁}$			13638 Dec 23 03:42	0° $\text{♁}$	
asc. node	13636 May 27 23:39	28° $\text{♁}$ 42'55		morning set	13639 Jan 07 04:53	18° $\text{♁}$ 33'55	
	13636 May 29 02:03	0° $\text{♁}$			13639 Jan 16 11:15	0° $\text{♁}$	
	13636 Jun 24 11:18	0° $\text{♁}$			13639 Feb 09 18:44	0° $\text{♁}$	
evening max el	13636 Jul 13 14:21	20° $\text{♁}$ 11'40	46°45'41				
	13636 Jul 23 18:31	0° $\text{♁}$		superior conj	13639 Feb 13 02:19	4° $\text{♁}$ 05'27	0°45'23
greatest brilliancy	13636 Aug 22 07:46	20° $\text{♁}$ 40'59	-4.9m	minimum elong	13639 Feb 13 11:12	4° $\text{♁}$ 32'48	0°45'33
retrograde	13636 Sep 01 22:30	22° $\text{♁}$ 47'57		max. Earth dist.	13639 Feb 13 07:06	4° $\text{♁}$ 20'11	1.73140 AU
evening set	13636 Sep 16 11:54	18° $\text{♁}$ 38'27		desc. node	13639 Mar 04 20:07	28° $\text{♁}$ 26'28	
desc. node	13636 Sep 17 01:50	18° $\text{♁}$ 19'41			13639 Mar 06 02:27	0° $\text{♁}$	
inferior conj	13636 Sep 22 19:49	14° $\text{♁}$ 56'35	-1°29'03	evening rise	13639 Mar 23 02:57	20° $\text{♁}$ 59'58	
minimum elong	13636 Sep 22 16:23	15° $\text{♁}$ 01'50	1°27'47		13639 Mar 30 09:54	0° $\text{♁}$	
min. Earth dist.	13636 Sep 22 09:09	15° $\text{♁}$ 12'52	0.27190 AU		13639 Apr 23 16:33	0° $\text{♁}$	
morning rise	13636 Sep 28 21:16	11° $\text{♁}$ 23'51			13639 May 17 22:46	0° $\text{♁}$	
direct	13636 Oct 13 14:21	7° $\text{♁}$ 10'53			13639 Jun 11 06:22	0° $\text{♁}$	
greatest brilliancy	13636 Oct 23 08:22	8° $\text{♁}$ 55'21	-4.8m	asc. node	13639 Jun 25 11:23	17° $\text{♁}$ 26'11	
	13636 Nov 23 13:08	0° $\text{♁}$			13639 Jul 05 18:37	0° $\text{♁}$	
morning max el	13636 Dec 01 21:17	7° $\text{♁}$ 47'23	46°03'23		13639 Jul 30 16:40	0° $\text{♁}$	
	13636 Dec 23 12:14	0° $\text{♁}$			13639 Aug 25 10:37	0° $\text{♁}$	
asc. node	13637 Jan 08 03:47	17° $\text{♁}$ 13'27			13639 Sep 22 04:08	0° $\text{♁}$	
	13637 Jan 19 09:46	0° $\text{♁}$		evening max el	13639 Sep 24 10:27	2° $\text{♁}$ 16'20	46°28'53
	13637 Feb 14 02:08	0° $\text{♁}$		desc. node	13639 Oct 15 10:55	21° $\text{♁}$ 08'22	
	13637 Mar 11 03:15	0° $\text{♁}$			13639 Oct 29 02:51	0° $\text{♁}$	
	13637 Apr 04 19:19	0° $\text{♁}$		greatest brilliancy	13639 Nov 02 15:02	1° $\text{♁}$ 58'47	-4.8m
	13637 Apr 29 05:04	0° $\text{♁}$		retrograde	13639 Nov 13 09:17	4° $\text{♁}$ 05'34	
desc. node	13637 Apr 29 23:05	0° $\text{♁}$ 55'37			13639 Nov 27 19:47	30° $\text{♁}$	
	13637 May 23 09:45	0° $\text{♁}$		evening set	13639 Dec 01 11:26	27° $\text{♁}$ 54'09	
morning set	13637 May 31 14:40	10° $\text{♁}$ 13'16		min. Earth dist.	13639 Dec 04 05:09	26° $\text{♁}$ 12'43	0.28635 AU
	13637 Jun 16 10:30	0° $\text{♁}$		inferior conj	13639 Dec 04 18:35	25° $\text{♁}$ 51'44	-8°45'14
max. Earth dist.	13637 Jul 09 12:47	28° $\text{♁}$ 56'50	1.71469 AU	minimum elong	13639 Dec 04 15:16	25° $\text{♁}$ 56'55	8°44'03
	13637 Jul 10 08:55	0° $\text{♁}$		morning rise	13639 Dec 07 19:18	23° $\text{♁}$ 59'37	
				direct	13639 Dec 26 01:46	17° $\text{♁}$ 46'50	
superior conj	13637 Jul 10 13:54	0° $\text{♁}$ 15'37	-1°19'38	greatest brilliancy	13640 Jan 04 21:32	19° $\text{♁}$ 32'43	-4.8m
minimum elong	13637 Jul 10 22:54	0° $\text{♁}$ 43'52	1°20'25		13640 Jan 23 06:51	0° $\text{♁}$	
	13637 Aug 03 06:48	0° $\text{♁}$		asc. node	13640 Feb 05 13:47	11° $\text{♁}$ 04'41	
evening rise	13637 Aug 19 19:38	20° $\text{♁}$ 43'13		morning max el	13640 Feb 13 00:55	18° $\text{♁}$ 05'26	45°43'02
asc. node	13637 Aug 20 12:41	21° $\text{♁}$ 36'32			13640 Feb 24 20:52	0° $\text{♁}$	
	13637 Aug 27 05:41	0° $\text{♁}$			13640 Mar 23 06:33	0° $\text{♁}$	
	13637 Sep 20 06:56	0° $\text{♁}$			13640 Apr 18 01:47	0° $\text{♁}$	
	13637 Oct 14 12:16	0° $\text{♁}$			13640 May 13 02:15	0° $\text{♁}$	
	13637 Nov 08 00:33	0° $\text{♁}$		desc. node	13640 May 27 12:22	17° $\text{♁}$ 34'05	
	13637 Dec 02 24:00	0° $\text{♁}$			13640 Jun 06 15:21	0° $\text{♁}$	
desc. node	13637 Dec 10 05:40	8° $\text{♁}$ 33'07			13640 Jun 30 20:58	0° $\text{♁}$	
	13637 Dec 28 16:47	0° $\text{♁}$			13640 Jul 24 22:05	0° $\text{♁}$	
	13638 Jan 24 14:53	0° $\text{♁}$		morning set	13640 Aug 14 10:25	25° $\text{♁}$ 40'33	
evening max el	13638 Feb 16 00:16	23° $\text{♁}$ 01'26	45°58'46		13640 Aug 17 21:18	0° $\text{♁}$	
	13638 Feb 23 10:32	0° $\text{♁}$			13640 Sep 10 20:29	0° $\text{♁}$	
greatest brilliancy	13638 Mar 27 05:32	21° $\text{♁}$ 51'13	-4.8m	asc. node	13640 Sep 17 03:11	7° $\text{♁}$ 51'09	
asc. node	13638 Apr 02 06:09	23° $\text{♁}$ 23'43					
retrograde	13638 Apr 06 05:57	23° $\text{♁}$ 42'15		superior conj	13640 Sep 22 20:45	15° $\text{♁}$ 00'58	0°13'57
evening set	13638 Apr 21 14:10	19° $\text{♁}$ 04'32		minimum elong	13640 Sep 22 17:21	14° $\text{♁}$ 50'20	0°13'56
inferior conj	13638 Apr 27 04:38	15° $\text{♁}$ 42'08	5°48'41	behind sun begin	13640 Sep 22 04:45	14° $\text{♁}$ 10'59	
minimum elong	13638 Apr 26 18:06	15° $\text{♁}$ 58'33	5°45'27	behind sun end	13640 Sep 23 05:56	15° $\text{♁}$ 29'41	
min. Earth dist.	13638 Apr 27 03:55	15° $\text{♁}$ 43'15	0.27906 AU	max. Earth dist.	13640 Sep 24 22:17	17° $\text{♁}$ 35'42	1.71858 AU
morning rise	13638 May 01 21:54	12° $\text{♁}$ 49'42			13640 Oct 04 20:41	0° $\text{♁}$	
direct	13638 May 18 06:09	7° $\text{♁}$ 36'53			13640 Oct 28 22:42	0° $\text{♁}$	
greatest brilliancy	13638 May 28 09:29	9° $\text{♁}$ 33'04	-4.8m	evening rise	13640 Oct 31 02:24	2° $\text{♁}$ 40'35	
	13638 Jun 27 00:31	0° $\text{♁}$			13640 Nov 22 03:49	0° $\text{♁}$	



	13640 Dec 16 13:50	0°♊			13643 May 25 15:26	0°♎	
desc. node	13641 Jan 06 18:04	25°♊44'48			13643 Jun 20 12:17	0°♊	
	13641 Jan 10 06:34	0°♋		desc. node	13643 Jun 25 00:36	5°♊21'54	
	13641 Feb 04 07:29	0°♌			13643 Jul 15 11:11	0°♋	
	13641 Mar 01 18:43	0°♍			13643 Aug 08 22:46	0°♌	
	13641 Mar 27 23:04	0°♎			13643 Sep 02 04:58	0°♍	
	13641 Apr 24 19:46	0°♏			13643 Sep 26 09:06	0°♎	
evening max el	13641 Apr 29 04:32	4°♏22'47	46°25'20	asc. node	13643 Oct 15 17:39	24°♏02'49	
asc. node	13641 Apr 29 15:21	4°♏49'31			13643 Oct 20 12:39	0°♏	
	13641 May 30 01:05	0°♐		morning set	13643 Oct 27 01:39	8°♏07'41	
greatest brilliancy	13641 Jun 08 14:23	0°♐33'00	-4.9m		13643 Nov 13 16:14	0°♐	
retrograde	13641 Jun 18 00:54	6°♐13'17					
evening set	13641 Jul 05 17:19	0°♐16'14		superior conj	13643 Dec 03 18:26	24°♐55'58	1°24'43
	13641 Jul 06 04:08	30°♑♏		minimum elong	13643 Dec 03 14:44	24°♐44'30	1°25'42
inferior conj	13641 Jul 08 17:22	28°♏26'12	8°33'30	max. Earth dist.	13643 Dec 05 16:54	27°♐19'56	1.72771 AU
minimum elong	13641 Jul 09 01:11	28°♏14'07	8°31'37		13643 Dec 07 20:34	0°♑	
min. Earth dist.	13641 Jul 09 06:34	28°♏05'48	0.27276 AU		13644 Jan 01 02:47	0°♊	
morning rise	13641 Jul 12 08:57	26°♏12'44		evening rise	13644 Jan 09 20:48	10°♊47'13	
direct	13641 Jul 29 12:35	20°♏32'53			13644 Jan 25 11:52	0°♋	
greatest brilliancy	13641 Aug 08 14:49	22°♏27'27	-4.9m	desc. node	13644 Feb 04 07:34	12°♋02'35	
desc. node	13641 Aug 19 18:46	28°♏12'53			13644 Feb 18 23:58	0°♌	
	13641 Aug 22 10:21	0°♑			13644 Mar 14 14:37	0°♍	
morning max el	13641 Sep 17 20:29	23°♑03'29	46°47'45		13644 Apr 08 07:55	0°♎	
	13641 Sep 24 16:05	0°♏			13644 May 03 06:16	0°♏	
	13641 Oct 22 04:16	0°♐		asc. node	13644 May 27 01:40	28°♏08'12	
	13641 Nov 17 04:22	0°♑			13644 May 28 16:05	0°♑	
asc. node	13641 Dec 10 18:22	27°♑55'58			13644 Jun 24 04:35	0°♏	
	13641 Dec 12 11:51	0°♐		evening max el	13644 Jul 11 04:22	17°♏51'07	46°45'37
	13642 Jan 06 09:20	0°♑			13644 Jul 23 22:45	0°♐	
	13642 Jan 31 00:22	0°♊		greatest brilliancy	13644 Aug 19 21:41	18°♐19'06	-4.9m
	13642 Feb 24 11:25	0°♋		retrograde	13644 Aug 30 12:45	20°♐26'08	
morning set	13642 Mar 17 06:39	25°♋37'07		evening set	13644 Sep 14 01:18	16°♐16'32	
	13642 Mar 20 19:50	0°♌		desc. node	13644 Sep 16 03:44	15°♐06'31	
desc. node	13642 Apr 01 10:38	14°♌21'13		inferior conj	13644 Sep 20 08:59	12°♐35'07	-1°05'32
	13642 Apr 14 01:52	0°♍		minimum elong	13644 Sep 20 06:26	12°♐39'00	1°04'35
max. Earth dist.	13642 Apr 21 22:44	9°♍45'58	1.72398 AU	min. Earth dist.	13644 Sep 19 23:12	12°♐50'00	0.27161 AU
				morning rise	13644 Sep 26 12:01	9°♐00'42	
superior conj	13642 Apr 25 02:16	13°♍40'32	-0°53'24	direct	13644 Oct 11 03:34	4°♐49'34	
minimum elong	13642 Apr 24 15:37	13°♍07'26	0°53'37	greatest brilliancy	13644 Oct 20 21:39	6°♐34'36	-4.8m
	13642 May 08 05:15	0°♎			13644 Nov 23 15:34	0°♑	
	13642 Jun 01 06:20	0°♏		morning max el	13644 Nov 29 12:17	5°♑32'32	46°04'46
evening rise	13642 Jun 03 06:22	2°♏30'01			13644 Dec 23 04:52	0°♐	
	13642 Jun 25 06:24	0°♑		asc. node	13645 Jan 07 05:49	16°♐38'05	
	13642 Jul 19 07:21	0°♏			13645 Jan 18 23:18	0°♑	
asc. node	13642 Jul 23 00:27	4°♏37'20			13645 Feb 13 14:15	0°♊	
	13642 Aug 12 11:21	0°♐			13645 Mar 10 14:36	0°♋	
	13642 Sep 05 21:03	0°♑			13645 Apr 04 06:15	0°♌	
	13642 Sep 30 17:05	0°♐			13645 Apr 28 15:46	0°♍	
	13642 Oct 26 08:41	0°♑		desc. node	13645 Apr 29 00:51	0°♍28'02	
desc. node	13642 Nov 11 20:37	18°♑25'34			13645 May 22 20:20	0°♎	
	13642 Nov 22 17:13	0°♊		morning set	13645 May 29 02:39	7°♎48'06	
evening max el	13642 Dec 04 11:58	11°♊50'53	46°00'46		13645 Jun 15 21:02	0°♏	
	13642 Dec 25 08:35	0°♋		max. Earth dist.	13645 Jul 07 00:23	26°♏29'39	1.71476 AU
greatest brilliancy	13643 Jan 12 18:21	10°♋26'59	-4.8m				
retrograde	13643 Jan 22 14:14	12°♋12'59		superior conj	13645 Jul 08 01:55	27°♏49'47	-1°21'09
evening set	13643 Feb 07 17:32	7°♋13'50		minimum elong	13645 Jul 08 10:13	28°♏15'50	1°21'59
inferior conj	13643 Feb 12 23:49	4°♋01'55	-4°40'19		13645 Jul 09 19:25	0°♑	
minimum elong	13643 Feb 13 08:56	3°♋47'35	4°37'24		13645 Aug 02 17:18	0°♏	
min. Earth dist.	13643 Feb 13 10:40	3°♋44'52	0.28622 AU	evening rise	13645 Aug 17 08:10	18°♏19'16	
morning rise	13643 Feb 19 00:00	0°♋23'50		asc. node	13645 Aug 19 14:27	21°♏09'09	
	13643 Feb 19 17:19	30°♑♊			13645 Aug 26 16:14	0°♐	
asc. node	13643 Mar 04 23:00	25°♊51'07			13645 Sep 19 17:36	0°♑	
direct	13643 Mar 06 06:58	25°♊49'00			13645 Oct 13 23:12	0°♐	
greatest brilliancy	13643 Mar 17 05:37	28°♊00'07	-4.8m		13645 Nov 07 11:55	0°♑	
	13643 Mar 21 17:38	0°♋			13645 Dec 02 12:06	0°♊	
morning max el	13643 Apr 24 19:26	27°♋04'59	46°10'27	desc. node	13645 Dec 09 07:37	8°♊02'23	
	13643 Apr 27 17:44	0°♌			13645 Dec 28 06:18	0°♋	

	13646 Jan 24 07:29	0°♄		morning set	13648 Aug 11 22:56	23°♏15'53	
evening max el	13646 Feb 13 16:02	20°♄49'39	45°58'16		13648 Aug 17 08:01	0°♎	
	13646 Feb 23 13:18	0°♄			13648 Sep 10 07:07	0°♎	
greatest brilliancy	13646 Mar 24 19:33	19°♄34'24	-4.8m	asc. node	13648 Sep 16 04:58	7°♎23'34	
asc. node	13646 Apr 01 08:03	21°♄17'49					
retrograde	13646 Apr 03 20:15	21°♄25'10		superior conj	13648 Sep 20 10:20	12°♎40'19	0°10'18
evening set	13646 Apr 19 02:03	16°♄51'19		minimum elong	13648 Sep 20 07:47	12°♎32'24	0°10'17
inferior conj	13646 Apr 24 19:08	13°♄24'51	5°31'02	behind sun begin	13648 Sep 19 12:33	11°♎32'17	
minimum elong	13646 Apr 24 08:51	13°♄40'56	5°27'48	behind sun end	13648 Sep 21 03:02	13°♎32'30	
min. Earth dist.	13646 Apr 24 18:23	13°♄26'02	0.27919 AU	max. Earth dist.	13648 Sep 22 09:16	15°♎07'00	1.71822 AU
morning rise	13646 Apr 29 15:31	10°♄27'40			13648 Oct 04 07:16	0°♎	
direct	13646 May 15 21:16	5°♄19'36			13648 Oct 28 09:17	0°♄	
greatest brilliancy	13646 May 26 00:17	7°♄15'22	-4.8m	evening rise	13648 Oct 28 17:58	0°♄27'01	
	13646 Jun 27 02:51	0°♄			13648 Nov 21 14:28	0°♄	
morning max el	13646 Jul 05 05:38	7°♄53'33	46°51'21		13648 Dec 16 00:42	0°♄	
desc. node	13646 Jul 22 11:14	26°♄02'21		desc. node	13649 Jan 05 19:57	25°♄16'30	
	13646 Jul 26 01:28	0°♄			13649 Jan 09 17:53	0°♄	
	13646 Aug 21 06:03	0°♄			13649 Feb 03 19:32	0°♄	
	13646 Sep 15 10:54	0°♄			13649 Mar 01 07:59	0°♄	
	13646 Oct 10 05:33	0°♄			13649 Mar 27 14:39	0°♄	
	13646 Nov 03 19:12	0°♄			13649 Apr 24 17:17	0°♄	
asc. node	13646 Nov 12 07:33	10°♄26'01		evening max el	13649 Apr 26 16:45	1°♄58'08	46°24'17
	13646 Nov 28 05:47	0°♄		asc. node	13649 Apr 28 17:26	3°♄57'39	
	13646 Dec 22 14:15	0°♄			13649 May 31 23:36	0°♄	
morning set	13647 Jan 04 21:49	16°♄25'49		greatest brilliancy	13649 Jun 06 03:51	2°♄09'52	-4.9m
	13647 Jan 15 21:42	0°♄		retrograde	13649 Jun 15 13:25	3°♄49'48	
	13647 Feb 09 05:09	0°♄			13649 Jun 29 11:31	30°♄	
				evening set	13649 Jul 03 09:10	27°♄48'02	
superior conj	13647 Feb 10 18:30	1°♄55'12	0°48'13	inferior conj	13649 Jul 06 06:27	26°♄02'15	8°41'46
minimum elong	13647 Feb 11 03:41	2°♄23'29	0°48'26	minimum elong	13649 Jul 06 13:31	25°♄51'19	8°40'02
max. Earth dist.	13647 Feb 11 01:20	2°♄16'15	1.73143 AU	min. Earth dist.	13649 Jul 06 19:44	25°♄41'44	0.27305 AU
desc. node	13647 Mar 03 21:49	27°♄59'29		morning rise	13649 Jul 09 17:46	23°♄55'05	
	13647 Mar 05 12:55	0°♄		direct	13649 Jul 27 01:14	18°♄08'01	
evening rise	13647 Mar 20 18:10	18°♄46'14		greatest brilliancy	13649 Aug 06 04:33	20°♄03'26	-4.9m
	13647 Mar 29 20:30	0°♄		desc. node	13649 Aug 18 20:42	26°♄49'00	
	13647 Apr 23 03:22	0°♄			13649 Aug 23 07:05	0°♄	
	13647 May 17 09:53	0°♄		morning max el	13649 Sep 15 10:02	20°♄40'32	46°48'58
	13647 Jun 10 17:54	0°♄			13649 Sep 24 12:15	0°♄	
asc. node	13647 Jun 24 13:20	16°♄55'50			13649 Oct 21 19:33	0°♄	
	13647 Jul 05 06:47	0°♄			13649 Nov 16 17:33	0°♄	
	13647 Jul 30 05:55	0°♄		asc. node	13649 Dec 09 20:20	27°♄25'45	
	13647 Aug 25 02:00	0°♄			13649 Dec 11 23:52	0°♄	
evening max el	13647 Sep 22 01:22	0°♄00'06	46°29'52		13650 Jan 05 20:39	0°♄	
	13647 Sep 22 01:20	0°♄			13650 Jan 30 11:18	0°♄	
desc. node	13647 Oct 14 12:53	20°♄00'08			13650 Feb 23 22:10	0°♄	
greatest brilliancy	13647 Oct 31 06:32	29°♄45'54	-4.8m	morning set	13650 Mar 14 22:11	23°♄23'58	
	13647 Oct 31 21:57	0°♄			13650 Mar 20 06:32	0°♄	
retrograde	13647 Nov 11 00:27	1°♄52'30		desc. node	13650 Mar 31 12:28	13°♄53'51	
	13647 Nov 20 16:49	30°♄			13650 Apr 13 12:34	0°♄	
evening set	13647 Nov 29 00:30	25°♄45'20		max. Earth dist.	13650 Apr 19 15:12	7°♄34'47	1.72441 AU
inferior conj	13647 Dec 02 09:59	23°♄39'19	-8°41'51				
minimum elong	13647 Dec 02 05:52	23°♄45'44	8°40'34	superior conj	13650 Apr 22 15:55	11°♄20'32	-0°50'27
min. Earth dist.	13647 Dec 01 19:46	24°♄01'32	0.28599 AU	minimum elong	13650 Apr 22 05:35	10°♄48'25	0°50'38
morning rise	13647 Dec 05 11:25	21°♄45'57			13650 May 07 16:01	0°♄	
direct	13647 Dec 23 16:47	15°♄35'12		evening rise	13650 May 31 18:48	0°♄05'01	
greatest brilliancy	13648 Jan 02 11:33	17°♄19'45	-4.8m		13650 May 31 17:11	0°♄	
	13648 Jan 23 18:48	0°♄			13650 Jun 24 17:24	0°♄	
asc. node	13648 Feb 04 15:43	10°♄11'33			13650 Jul 18 18:34	0°♄	
morning max el	13648 Feb 10 14:49	15°♄49'40	45°42'47	asc. node	13650 Jul 22 02:13	4°♄07'51	
	13648 Feb 24 14:55	0°♄			13650 Aug 11 22:52	0°♄	
	13648 Mar 22 20:41	0°♄			13650 Sep 05 09:02	0°♄	
	13648 Apr 17 14:18	0°♄			13650 Sep 30 05:54	0°♄	
	13648 May 12 13:58	0°♄			13650 Oct 25 23:11	0°♄	
desc. node	13648 May 26 14:23	17°♄05'18		desc. node	13650 Nov 10 22:40	17°♄46'17	
	13648 Jun 06 02:37	0°♄			13650 Nov 22 11:55	0°♄	
	13648 Jun 30 07:58	0°♄		evening max el	13650 Dec 02 02:56	9°♄37'39	46°01'39
	13648 Jul 24 08:55	0°♄			13650 Dec 26 00:49	0°♄	

greatest brilliancy	13651 Jan 10 09:05	8° $\text{H}$ 14'58	-4.8m	superior conj	13653 Jul 05 13:44	25° $\text{O}$ 21'49	-1°22'32
retrograde	13651 Jan 20 06:13	10° $\text{H}$ 02'02		minimum elong	13653 Jul 05 21:14	25° $\text{O}$ 45'20	1°23'23
evening set	13651 Feb 05 11:53	4° $\text{H}$ 58'26			13653 Jul 09 06:25	0° $\Omega$	
inferior conj	13651 Feb 10 15:37	1° $\text{H}$ 50'17	-4°57'46		13653 Aug 02 04:19	0° $\text{M}$	
minimum elong	13651 Feb 11 01:05	1° $\text{H}$ 35'26	4°54'47	evening rise	13653 Aug 14 20:05	15° $\text{M}$ 51'42	
min. Earth dist.	13651 Feb 11 02:15	1° $\text{H}$ 33'38	0.28651 AU	asc. node	13653 Aug 18 16:14	20° $\text{M}$ 40'08	
	13651 Feb 13 14:35	30° $\text{R}$ $\approx$			13653 Aug 26 03:18	0° $\underline{\Omega}$	
morning rise	13651 Feb 16 14:00	28° $\approx$ 15'03			13653 Sep 19 04:47	0° $\text{M}$	
direct	13651 Mar 03 22:58	23° $\approx$ 37'05			13653 Oct 13 10:37	0° $\text{X}$	
asc. node	13651 Mar 04 00:56	23° $\approx$ 37'05			13653 Nov 06 23:44	0° $\text{Z}$	
greatest brilliancy	13651 Mar 14 21:37	25° $\approx$ 48'31	-4.8m		13653 Dec 02 00:41	0° $\approx$	
	13651 Mar 23 09:12	0° $\text{H}$		desc. node	13653 Dec 08 09:31	7° $\approx$ 30'07	
morning max el	13651 Apr 22 11:48	24° $\text{H}$ 53'11	46°08'53		13653 Dec 27 20:21	0° $\text{H}$	
	13651 Apr 27 14:14	0° $\text{Y}$			13654 Jan 24 00:50	0° $\text{Y}$	
	13651 May 25 06:43	0° $\text{B}$		evening max el	13654 Feb 11 07:27	18° $\text{Y}$ 36'01	45°57'48
	13651 Jun 20 01:36	0° $\text{II}$			13654 Feb 23 18:12	0° $\text{B}$	
desc. node	13651 Jun 24 02:28	4° $\text{II}$ 48'23		greatest brilliancy	13654 Mar 22 10:18	17° $\text{B}$ 18'00	-4.8m
	13651 Jul 14 23:30	0° $\text{O}$		asc. node	13654 Mar 31 10:08	19° $\text{B}$ 06'50	
	13651 Aug 08 10:31	0° $\Omega$		retrograde	13654 Apr 01 10:15	19° $\text{B}$ 08'01	
	13651 Sep 01 16:21	0° $\text{M}$		evening set	13654 Apr 16 14:24	14° $\text{B}$ 37'43	
	13651 Sep 25 20:13	0° $\underline{\Omega}$		inferior conj	13654 Apr 22 09:55	11° $\text{B}$ 07'38	5°12'54
asc. node	13651 Oct 14 19:33	23° $\underline{\Omega}$ 34'44		minimum elong	13654 Apr 21 23:57	11° $\text{B}$ 23'16	5°09'42
	13651 Oct 19 23:33	0° $\text{M}$		min. Earth dist.	13654 Apr 22 09:29	11° $\text{B}$ 08'20	0.27934 AU
morning set	13651 Oct 24 16:20	5° $\text{M}$ 50'25		morning rise	13654 Apr 27 09:18	8° $\text{B}$ 05'46	
	13651 Nov 13 03:00	0° $\text{X}$		direct	13654 May 13 12:14	3° $\text{B}$ 02'18	
				greatest brilliancy	13654 May 23 15:52	4° $\text{B}$ 58'13	-4.8m
superior conj	13651 Dec 01 10:48	22° $\text{X}$ 44'39	1°24'01		13654 Jun 27 04:09	0° $\text{II}$	
minimum elong	13651 Dec 01 06:22	22° $\text{X}$ 30'52	1°24'59	morning max el	13654 Jul 02 19:07	5° $\text{II}$ 31'22	46°50'14
max. Earth dist.	13651 Dec 03 10:24	25° $\text{X}$ 12'13	1.72744 AU	desc. node	13654 Jul 21 13:09	25° $\text{II}$ 19'27	
	13651 Dec 07 07:17	0° $\text{Z}$			13654 Jul 25 18:23	0° $\text{O}$	
	13651 Dec 31 13:32	0° $\approx$			13654 Aug 20 20:16	0° $\Omega$	
evening rise	13652 Jan 07 13:09	8° $\approx$ 36'39			13654 Sep 14 23:48	0° $\text{M}$	
	13652 Jan 24 22:44	0° $\text{H}$			13654 Oct 09 17:38	0° $\underline{\Omega}$	
desc. node	13652 Feb 03 09:19	11° $\text{H}$ 34'27			13654 Nov 03 06:46	0° $\text{M}$	
	13652 Feb 18 11:03	0° $\text{Y}$		asc. node	13654 Nov 11 09:28	9° $\text{M}$ 56'56	
	13652 Mar 14 02:04	0° $\text{B}$			13654 Nov 27 16:58	0° $\text{X}$	
	13652 Apr 07 19:59	0° $\text{II}$			13654 Dec 22 01:11	0° $\text{Z}$	
	13652 May 02 19:18	0° $\text{O}$		morning set	13655 Jan 02 14:39	14° $\text{Z}$ 16'15	
asc. node	13652 May 26 03:36	27° $\text{O}$ 31'26			13655 Jan 15 08:29	0° $\approx$	
	13652 May 28 06:48	0° $\Omega$					
	13652 Jun 23 22:55	0° $\text{M}$		superior conj	13655 Feb 08 10:53	29° $\approx$ 44'32	0°50'59
evening max el	13652 Jul 08 19:17	15° $\text{M}$ 31'05	46°45'32	minimum elong	13655 Feb 08 20:19	0° $\text{H}$ 13'36	0°51'13
	13652 Jul 24 05:54	0° $\underline{\Omega}$			13655 Feb 08 15:54	0° $\text{H}$	
greatest brilliancy	13652 Aug 17 11:43	15° $\underline{\Omega}$ 55'34	-4.9m	max. Earth dist.	13655 Feb 08 18:18	0° $\text{H}$ 07'24	1.73146 AU
retrograde	13652 Aug 28 02:50	18° $\underline{\Omega}$ 02'08		desc. node	13655 Mar 02 23:42	27° $\text{H}$ 31'58	
evening set	13652 Sep 11 14:51	13° $\underline{\Omega}$ 52'34			13655 Mar 04 23:44	0° $\text{Y}$	
desc. node	13652 Sep 15 05:44	11° $\underline{\Omega}$ 48'56		evening rise	13655 Mar 18 09:42	16° $\text{Y}$ 32'31	
inferior conj	13652 Sep 17 21:59	10° $\underline{\Omega}$ 11'44	-0°41'40		13655 Mar 29 07:28	0° $\text{B}$	
minimum elong	13652 Sep 17 20:21	10° $\underline{\Omega}$ 14'12	0°41'04		13655 Apr 22 14:31	0° $\text{II}$	
min. Earth dist.	13652 Sep 17 13:04	10° $\underline{\Omega}$ 25'18	0.27126 AU		13655 May 16 21:18	0° $\text{O}$	
morning rise	13652 Sep 24 02:24	6° $\underline{\Omega}$ 35'47			13655 Jun 10 05:45	0° $\Omega$	
direct	13652 Oct 08 16:57	2° $\underline{\Omega}$ 26'37		asc. node	13655 Jun 23 15:10	16° $\Omega$ 24'07	
greatest brilliancy	13652 Oct 18 10:24	4° $\underline{\Omega}$ 11'36	-4.8m		13655 Jul 04 19:19	0° $\text{M}$	
	13652 Nov 23 17:03	0° $\text{M}$			13655 Jul 29 19:39	0° $\underline{\Omega}$	
morning max el	13652 Nov 27 02:49	3° $\text{M}$ 15'25	46°06'10		13655 Aug 24 18:07	0° $\text{M}$	
	13652 Dec 22 21:33	0° $\text{X}$		evening max el	13655 Sep 19 15:28	27° $\text{M}$ 40'08	46°30'44
asc. node	13653 Jan 06 07:38	16° $\text{X}$ 01'26			13655 Sep 22 00:02	0° $\text{X}$	
	13653 Jan 18 13:05	0° $\text{Z}$		desc. node	13655 Oct 13 14:59	18° $\text{X}$ 48'32	
	13653 Feb 13 02:39	0° $\approx$		greatest brilliancy	13655 Oct 28 22:06	27° $\text{X}$ 31'03	-4.8m
	13653 Mar 10 02:17	0° $\text{H}$		retrograde	13655 Nov 08 15:22	29° $\text{X}$ 37'36	
	13653 Apr 03 17:30	0° $\text{Y}$		evening set	13655 Nov 26 13:04	23° $\text{X}$ 35'04	
desc. node	13653 Apr 28 02:49	0° $\text{B}$ 00'00		min. Earth dist.	13655 Nov 29 10:33	21° $\text{X}$ 48'04	0.28558 AU
	13653 Apr 28 02:49	0° $\text{B}$		inferior conj	13655 Nov 30 01:14	21° $\text{X}$ 25'08	-8°37'33
	13653 May 22 07:18	0° $\text{II}$		minimum elong	13655 Nov 29 20:20	21° $\text{X}$ 32'47	8°36'11
morning set	13653 May 26 14:45	5° $\text{II}$ 22'05		morning rise	13655 Dec 03 03:46	19° $\text{X}$ 30'04	
	13653 Jun 15 08:00	0° $\text{O}$		direct	13655 Dec 21 07:09	13° $\text{X}$ 21'43	
max. Earth dist.	13653 Jul 04 09:13	23° $\text{O}$ 52'25	1.71490 AU	greatest brilliancy	13655 Dec 31 02:01	15° $\text{X}$ 05'51	-4.8m

	13656 Jan 24 04:05	0°♁			13658 Jun 24 04:23	0°♁		
asc. node	13656 Feb 03 17:44	9°♁18'40			13658 Jul 18 05:44	0°♁		
morning max el	13656 Feb 08 04:30	13°♁32'23	45°42'45	asc. node	13658 Jul 21 04:05	3°♁38'50		
	13656 Feb 24 08:49	0°♁			13658 Aug 11 10:19	0°♁		
	13656 Mar 22 10:54	0°♁			13658 Sep 04 20:57	0°♁		
	13656 Apr 17 02:59	0°♁			13658 Sep 29 18:41	0°♁		
	13656 May 12 01:52	0°♁			13658 Oct 25 13:45	0°♁		
desc. node	13656 May 25 16:10	16°♁35'15		desc. node	13658 Nov 10 00:32	17°♁06'20		
	13656 Jun 05 14:04	0°♁			13658 Nov 22 07:06	0°♁		
	13656 Jun 29 19:08	0°♁		evening max el	13658 Nov 29 18:46	7°♁26'36	46°02'20	
	13656 Jul 23 19:54	0°♁			13658 Dec 26 22:52	0°♁		
morning set	13656 Aug 09 11:41	20°♁51'17		greatest brilliancy	13659 Jan 07 23:40	6°♁02'48	-4.8m	
	13656 Aug 16 18:54	0°♁		retrograde	13659 Jan 17 22:18	7°♁50'51		
	13656 Sep 09 17:57	0°♁		evening set	13659 Feb 03 06:19	2°♁43'00		
asc. node	13656 Sep 15 06:54	6°♁55'45			13659 Feb 07 17:42	30°♁		
				inferior conj	13659 Feb 08 07:22	29°♁38'36	-5°14'46	
superior conj	13656 Sep 17 23:52	10°♁18'49	0°06'38	minimum elong	13659 Feb 08 17:09	29°♁23'17	5°11'44	
minimum elong	13656 Sep 17 22:13	10°♁13'41	0°06'38	min. Earth dist.	13659 Feb 08 17:31	29°♁22'42	0.28677 AU	
behind sun begin	13656 Sep 16 23:28	9°♁02'35		morning rise	13659 Feb 14 03:46	26°♁06'27		
behind sun end	13656 Sep 18 20:58	11°♁24'48		direct	13659 Mar 01 15:21	21°♁25'22		
max. Earth dist.	13656 Sep 19 18:58	12°♁33'33	1.71797 AU	asc. node	13659 Mar 03 03:00	21°♁27'59		
	13656 Oct 03 18:05	0°♁		greatest brilliancy	13659 Mar 12 13:01	23°♁36'20	-4.8m	
evening rise	13656 Oct 26 09:20	28°♁11'53			13659 Mar 24 12:27	0°♁		
	13656 Oct 27 20:07	0°♁		morning max el	13659 Apr 20 04:14	22°♁42'03	46°07'22	
	13656 Nov 21 01:24	0°♁			13659 Apr 27 09:56	0°♁		
	13656 Dec 15 11:52	0°♁			13659 May 24 21:35	0°♁		
desc. node	13657 Jan 04 21:44	24°♁47'08			13659 Jun 19 14:36	0°♁		
	13657 Jan 09 05:28	0°♁		desc. node	13659 Jun 23 04:20	4°♁15'37		
	13657 Feb 03 07:50	0°♁			13659 Jul 14 11:35	0°♁		
	13657 Feb 28 21:32	0°♁			13659 Aug 07 22:04	0°♁		
	13657 Mar 27 06:39	0°♁			13659 Sep 01 03:31	0°♁		
evening max el	13657 Apr 24 05:38	29°♁35'00	46°23'18		13659 Sep 25 07:06	0°♁		
	13657 Apr 24 15:46	0°♁		asc. node	13659 Oct 13 21:23	23°♁07'13		
asc. node	13657 Apr 27 19:27	3°♁04'17			13659 Oct 19 10:13	0°♁		
greatest brilliancy	13657 Jun 03 16:52	29°♁46'23	-4.9m	morning set	13659 Oct 22 07:18	3°♁34'43		
	13657 Jun 04 09:19	0°♁			13659 Nov 12 13:31	0°♁		
retrograde	13657 Jun 13 02:41	1°♁26'48						
	13657 Jun 21 12:51	30°♁		superior conj	13659 Nov 29 03:19	20°♁34'26	1°23'12	
evening set	13657 Jul 01 00:54	25°♁20'35		minimum elong	13659 Nov 28 22:10	20°♁18'28	1°24'09	
inferior conj	13657 Jul 03 19:42	23°♁38'39	8°48'56	max. Earth dist.	13659 Dec 01 06:01	23°♁11'42	1.72719 AU	
minimum elong	13657 Jul 04 02:00	23°♁28'55	8°47'21		13659 Dec 06 17:45	0°♁		
min. Earth dist.	13657 Jul 04 08:44	23°♁18'32	0.27334 AU		13659 Dec 31 00:04	0°♁		
morning rise	13657 Jul 07 02:59	21°♁37'36		evening rise	13660 Jan 05 05:33	6°♁26'48		
direct	13657 Jul 24 14:28	15°♁43'37			13660 Jan 24 09:24	0°♁		
greatest brilliancy	13657 Aug 03 18:01	17°♁39'35	-4.9m	desc. node	13660 Feb 02 11:15	11°♁07'27		
desc. node	13657 Aug 17 22:41	25°♁28'17			13660 Feb 17 21:58	0°♁		
	13657 Aug 23 22:23	0°♁			13660 Mar 13 13:22	0°♁		
morning max el	13657 Sep 13 00:31	18°♁20'07	46°50'04		13660 Apr 07 07:53	0°♁		
	13657 Sep 24 07:45	0°♁			13660 May 02 08:10	0°♁		
	13657 Oct 21 10:38	0°♁		asc. node	13660 May 25 05:28	26°♁55'07		
asc. node	13657 Nov 16 06:41	0°♁			13660 May 27 21:24	0°♁		
	13657 Dec 08 22:07	26°♁54'45			13660 Jun 23 17:22	0°♁		
	13657 Dec 11 11:56	0°♁		evening max el	13660 Jul 06 10:17	13°♁12'12	46°45'18	
	13658 Jan 05 08:04	0°♁			13660 Jul 24 15:11	0°♁		
	13658 Jan 29 22:19	0°♁		greatest brilliancy	13660 Aug 15 02:17	13°♁33'43	-4.9m	
	13658 Feb 23 08:58	0°♁		retrograde	13660 Aug 25 16:34	15°♁39'01		
morning set	13658 Mar 12 13:51	21°♁11'14		evening set	13660 Sep 09 04:42	11°♁29'31		
	13658 Mar 19 17:15	0°♁		desc. node	13660 Sep 14 07:50	8°♁30'55		
desc. node	13658 Mar 30 14:20	13°♁26'37		inferior conj	13660 Sep 15 11:03	7°♁49'26	-0°17'42	
	13658 Apr 12 23:16	0°♁		minimum elong	13660 Sep 15 10:21	7°♁50'30	0°17'27	
max. Earth dist.	13658 Apr 17 09:02	5°♁27'59	1.72480 AU	min. Earth dist.	13660 Sep 15 03:13	8°♁01'23	0.27092 AU	
				morning rise	13660 Sep 21 16:34	4°♁11'59		
superior conj	13658 Apr 20 05:43	9°♁01'06	-0°47'26	direct	13660 Oct 06 06:18	0°♁04'53		
minimum elong	13658 Apr 19 19:45	8°♁30'10	0°47'35	greatest brilliancy	13660 Oct 15 23:21	1°♁49'40	-4.8m	
	13658 May 07 02:45	0°♁			13660 Nov 23 16:48	0°♁		
evening rise	13658 May 29 07:34	27°♁41'11		morning max el	13660 Nov 24 16:33	0°♁57'20	46°07'38	
	13658 May 31 04:02	0°♁			13660 Dec 22 13:30	0°♁		

asc. node	13661 Jan 05 09:39	15°♊26'48		evening max el	13663 Sep 17 05:07	25°♎20'09	46°31'43
	13661 Jan 18 02:20	0°♊			13663 Sep 21 23:14	0°♊	
	13661 Feb 12 14:39	0°♋		desc. node	13663 Oct 12 16:53	17°♊35'38	
	13661 Mar 09 13:37	0°♌		greatest brilliancy	13663 Oct 26 13:03	25°♊16'25	-4.8m
	13661 Apr 03 04:28	0°♍		retrograde	13663 Nov 06 06:27	27°♊23'46	
desc. node	13661 Apr 27 04:37	29°♍32'22		evening set	13663 Nov 24 01:14	21°♊25'56	
	13661 Apr 27 13:34	0°♎		min. Earth dist.	13663 Nov 27 01:10	19°♊35'34	0.28518 AU
	13661 May 21 17:57	0°♏		inferior conj	13663 Nov 27 16:24	19°♊11'48	-8°32'22
morning set	13661 May 24 02:45	2°♏56'49		minimum elong	13663 Nov 27 10:45	19°♊20'38	8°30'54
	13661 Jun 14 18:37	0°♐		morning rise	13663 Nov 30 20:24	17°♊14'40	
max. Earth dist.	13661 Jul 01 16:00	21°♐09'56	1.71503 AU	direct	13663 Dec 18 21:21	11°♊08'50	
				greatest brilliancy	13663 Dec 28 16:44	12°♊53'09	-4.8m
superior conj	13661 Jul 03 01:34	22°♑55'08	-1°23'43		13664 Jan 24 10:17	0°♋	
minimum elong	13661 Jul 03 08:11	23°♑15'56	1°24'38	asc. node	13664 Feb 02 19:45	8°♋27'57	
	13661 Jul 08 17:02	0°♌		morning max el	13664 Feb 05 18:48	11°♋17'42	45°42'55
	13661 Aug 01 14:58	0°♍			13664 Feb 24 01:54	0°♋	
evening rise	13661 Aug 12 07:56	13°♍25'01			13664 Mar 22 00:34	0°♌	
asc. node	13661 Aug 17 18:11	20°♍12'42			13664 Apr 16 15:13	0°♍	
	13661 Aug 25 14:01	0°♎			13664 May 11 13:23	0°♎	
	13661 Sep 18 15:39	0°♏		desc. node	13664 May 24 18:02	16°♎06'28	
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	13661 Dec 01 12:56	0°♒			13664 Jul 23 06:39	0°♑	
desc. node	13661 Dec 07 11:25	6°♒58'55		morning set	13664 Aug 06 23:58	18°♑25'57	
	13661 Dec 27 10:08	0°♌			13664 Aug 16 05:33	0°♒	
	13662 Jan 23 18:09	0°♍			13664 Sep 09 04:32	0°♓	
evening max el	13662 Feb 08 21:48	16°♍20'53	45°57'11	asc. node	13664 Sep 14 08:39	6°♓28'16	
	13662 Feb 24 00:49	0°♎					
greatest brilliancy	13662 Mar 20 01:07	15°♎02'18	-4.8m	superior conj	13664 Sep 15 13:00	7°♓56'54	0°02'55
retrograde	13662 Mar 29 23:56	16°♎51'36		minimum elong	13664 Sep 15 12:16	7°♓54'37	0°02'55
asc. node	13662 Mar 30 12:07	16°♎51'17		behind sun begin	13664 Sep 14 11:50	6°♓38'12	
evening set	13662 Apr 14 02:46	12°♎24'16		behind sun end	13664 Sep 16 12:43	9°♓11'03	
inferior conj	13662 Apr 20 00:35	8°♏51'05	4°54'06	max. Earth dist.	13664 Sep 17 05:17	10°♓02'49	1.71769 AU
minimum elong	13662 Apr 19 14:58	9°♏06'08	4°50'59		13664 Oct 03 04:37	0°♏	
min. Earth dist.	13662 Apr 20 00:44	8°♏50'51	0.27952 AU	evening rise	13664 Oct 24 00:34	25°♏57'20	
morning rise	13662 Apr 25 02:54	5°♏44'41			13664 Oct 27 06:40	0°♐	
direct	13662 May 11 02:39	0°♏45'24			13664 Nov 20 12:04	0°♑	
greatest brilliancy	13662 May 21 08:01	2°♏42'21	-4.8m		13664 Dec 14 22:47	0°♒	
	13662 Jun 27 03:53	0°♏		desc. node	13665 Jan 03 23:42	24°♒19'08	
morning max el	13662 Jun 30 08:11	3°♏08'57	46°49'16		13665 Jan 08 16:49	0°♌	
desc. node	13662 Jul 20 15:14	24°♏38'31			13665 Feb 02 19:54	0°♍	
	13662 Jul 25 10:37	0°♐			13665 Feb 28 10:53	0°♎	
	13662 Aug 20 09:55	0°♑			13665 Mar 26 22:34	0°♏	
	13662 Sep 14 12:10	0°♒		evening max el	13665 Apr 21 19:16	27°♏14'50	46°22'14
	13662 Oct 09 05:15	0°♓			13665 Apr 24 14:53	0°♐	
	13662 Nov 02 17:53	0°♏		asc. node	13665 Apr 26 21:18	2°♐10'26	
asc. node	13662 Nov 10 11:13	9°♏28'36		greatest brilliancy	13665 Jun 01 05:01	27°♐22'40	-4.9m
	13662 Nov 27 03:44	0°♐		retrograde	13665 Jun 10 16:08	29°♐04'08	
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morning set	13662 Dec 31 07:36	12°♑08'08		inferior conj	13665 Jul 01 08:49	21°♐15'11	8°55'06
	13663 Jan 14 18:52	0°♒		minimum elong	13665 Jul 01 14:18	21°♐06'44	8°53'39
				min. Earth dist.	13665 Jul 01 21:10	20°♐56'09	0.27366 AU
superior conj	13663 Feb 06 03:31	27°♒35'52	0°53'39	morning rise	13665 Jul 04 12:19	19°♐19'57	
minimum elong	13663 Feb 06 13:08	28°♒05'32	0°53'55	direct	13665 Jul 22 04:18	13°♐19'31	
max. Earth dist.	13663 Feb 06 11:35	28°♒00'45	1.73149 AU	greatest brilliancy	13665 Aug 01 06:55	15°♐15'18	-4.9m
	13663 Feb 08 02:15	0°♌		desc. node	13665 Aug 17 00:46	24°♐10'32	
desc. node	13663 Mar 02 01:35	27°♌05'37			13665 Aug 24 09:42	0°♑	
	13663 Mar 04 10:10	0°♍		morning max el	13665 Sep 10 15:28	16°♑01'04	46°51'04
evening rise	13663 Mar 16 01:26	14°♍20'38			13665 Sep 24 02:37	0°♒	
	13663 Mar 28 18:04	0°♎			13665 Oct 21 01:22	0°♓	
	13663 Apr 22 01:21	0°♏			13665 Nov 15 19:32	0°♏	
	13663 May 16 08:27	0°♐		asc. node	13665 Dec 08 00:06	26°♏25'07	
	13663 Jun 09 17:20	0°♑			13665 Dec 10 23:43	0°♐	
asc. node	13663 Jun 22 17:04	15°♑53'28			13666 Jan 04 19:15	0°♑	
	13663 Jul 04 07:37	0°♒			13666 Jan 29 09:08	0°♒	
	13663 Jul 29 09:10	0°♓			13666 Feb 22 19:36	0°♌	
	13663 Aug 24 10:07	0°♏		morning set	13666 Mar 10 05:48	18°♌59'54	

	13666 Mar 19 03:47	0°♿		min. Earth dist.	13668 Sep 12 17:46	5°♁37'09	0.27064 AU
desc. node	13666 Mar 29 16:07	12°♿59'39		inferior conj	13668 Sep 13 00:14	5°♁27'17	0°06'11
	13666 Apr 12 09:46	0°♄		minimum elong	13668 Sep 13 00:28	5°♁26'55	0°06'06
max. Earth dist.	13666 Apr 15 02:34	3°♄20'50	1.72514 AU	transit middle	13668 Sep 13 00:28	5°♁26'55	0°06'06
				transit begin	13668 Sep 12 20:41	5°♁32'42	
superior conj	13666 Apr 17 19:49	6°♄43'13	-0°44'20	transit end	13668 Sep 13 04:16	5°♁21'07	
minimum elong	13666 Apr 17 10:18	6°♄13'43	0°44'28	desc. node	13668 Sep 13 09:43	5°♁12'47	
	13666 May 06 13:18	0°♂		morning rise	13668 Sep 19 06:35	1°♁48'22	
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asc. node	13666 Jul 20 06:01	3°♐10'19		morning max el	13668 Nov 22 05:29	28°♁36'33	46°09'01
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desc. node	13666 Nov 09 02:31	16°♄26'23			13669 Feb 12 02:46	0°♁	
	13666 Nov 22 02:50	0°♁			13669 Mar 09 01:03	0°♄	
evening max el	13666 Nov 27 10:46	5°♁16'05	46°03'08		13669 Apr 02 15:33	0°♿	
	13666 Dec 28 05:26	0°♄		desc. node	13669 Apr 26 06:24	29°♿04'11	
greatest brilliancy	13667 Jan 05 14:31	3°♄51'15	-4.8m		13669 Apr 27 00:28	0°♄	
retrograde	13667 Jan 15 14:07	5°♄39'42			13669 May 21 04:47	0°♂	
evening set	13667 Feb 01 00:49	0°♄27'46		morning set	13669 May 21 14:50	0°♂31'16	
	13667 Feb 01 19:45	30°♄♁			13669 Jun 14 05:25	0°♄	
inferior conj	13667 Feb 05 23:05	27°♁27'01	-5°31'15	max. Earth dist.	13669 Jun 28 20:41	18°♄20'20	1.71517 AU
minimum elong	13667 Feb 06 09:05	27°♁11'21	5°28'13				
min. Earth dist.	13667 Feb 06 08:42	27°♁11'58	0.28700 AU	superior conj	13669 Jun 30 13:42	20°♄28'55	-1°24'45
morning rise	13667 Feb 11 17:15	23°♁58'03		minimum elong	13669 Jun 30 19:26	20°♄46'55	1°25'42
direct	13667 Feb 27 07:54	19°♁13'55			13669 Jul 08 03:49	0°♂	
asc. node	13667 Mar 02 04:59	19°♁23'39			13669 Aug 01 01:46	0°♐	
greatest brilliancy	13667 Mar 10 04:01	21°♁23'44	-4.8m	evening rise	13669 Aug 09 20:01	10°♐58'38	
	13667 Mar 25 08:10	0°♄		asc. node	13669 Aug 16 19:56	19°♐44'18	
morning max el	13667 Apr 17 20:01	20°♄29'28	46°05'56		13669 Aug 25 00:53	0°♁	
	13667 Apr 27 04:59	0°♿			13669 Sep 18 02:40	0°♐	
	13667 May 24 12:11	0°♄			13669 Oct 12 08:59	0°♄	
	13667 Jun 19 03:26	0°♂			13669 Nov 05 22:58	0°♄	
desc. node	13667 Jun 22 06:24	3°♂43'53			13669 Dec 01 01:30	0°♁	
	13667 Jul 13 23:31	0°♄		desc. node	13669 Dec 06 13:23	6°♁27'03	
	13667 Aug 07 09:31	0°♂			13669 Dec 27 00:21	0°♄	
	13667 Aug 31 14:39	0°♐			13670 Jan 23 12:12	0°♿	
	13667 Sep 24 17:59	0°♁		evening max el	13670 Feb 06 11:31	14°♿03'36	45°56'47
asc. node	13667 Oct 12 23:10	22°♁39'19			13670 Feb 24 10:22	0°♄	
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morning set	13667 Oct 19 21:55	1°♐17'41		retrograde	13670 Mar 27 13:59	14°♄35'11	
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				evening set	13670 Apr 11 15:29	10°♄10'05	
superior conj	13667 Nov 26 19:28	18°♄22'56	1°22'14	inferior conj	13670 Apr 17 15:25	6°♄34'18	4°35'01
minimum elong	13667 Nov 26 13:40	18°♄04'55	1°23'10	minimum elong	13670 Apr 17 06:12	6°♄48'42	4°31'58
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	13667 Dec 06 04:18	0°♄		morning rise	13670 Apr 22 20:35	3°♄23'43	
	13667 Dec 30 10:39	0°♁			13670 Apr 30 00:50	30°♄♿	
evening rise	13668 Jan 02 21:41	4°♁15'58		direct	13670 May 08 17:04	28°♿28'04	
	13668 Jan 23 20:08	0°♄			13670 May 17 17:53	0°♄	
desc. node	13668 Feb 01 13:06	10°♄40'02		greatest brilliancy	13670 May 19 00:32	0°♄26'36	-4.8m
	13668 Feb 17 08:57	0°♿			13670 Jun 27 02:52	0°♂	
	13668 Mar 13 00:47	0°♄		morning max el	13670 Jun 27 21:58	0°♂47'41	46°48'18
	13668 Apr 06 19:55	0°♂		desc. node	13670 Jul 19 17:08	23°♂56'51	
	13668 May 01 21:11	0°♄			13670 Jul 25 02:50	0°♄	
asc. node	13668 May 24 07:30	26°♄18'58			13670 Aug 19 23:42	0°♂	
	13668 May 27 12:13	0°♂			13670 Sep 14 00:43	0°♐	
	13668 Jun 23 12:18	0°♐			13670 Oct 08 17:03	0°♁	
evening max el	13668 Jul 04 00:25	10°♐51'09	46°45'01		13670 Nov 02 05:12	0°♐	
	13668 Jul 25 03:41	0°♁		asc. node	13670 Nov 09 13:10	9°♐00'13	
greatest brilliancy	13668 Aug 12 17:22	11°♁12'36	-4.9m		13670 Nov 26 14:44	0°♄	
retrograde	13668 Aug 23 05:50	13°♁16'01			13670 Dec 20 22:30	0°♄	
evening set	13668 Sep 06 18:51	9°♁06'14		morning set	13670 Dec 29 00:32	9°♄59'02	







































































































































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				min. Earth dist.	13673 Jun 29 09:22	18°♊33'29	0.27396 AU
superior conj	13671 Feb 03 20:06	25°♊26'03	0°56'13	morning rise	13673 Jul 01 22:02	17°♊00'59	
minimum elong	13671 Feb 04 05:52	25°♊56'11	0°56'33	direct	13673 Jul 19 18:24	10°♊54'59	
max. Earth dist.	13671 Feb 04 05:17	25°♊54'24	1.73153 AU	greatest brilliancy	13673 Jul 29 19:20	12°♊49'39	-4.9m
	13671 Feb 07 12:56	0°♋		desc. node	13673 Aug 16 02:41	22°♊54'08	
desc. node	13671 Mar 01 03:19	26°♋37'48			13673 Aug 24 18:25	0°♌	
	13671 Mar 03 20:55	0°♍		morning max el	13673 Sep 08 06:15	13°♌40'42	46°51'51
evening rise	13671 Mar 13 17:06	12°♍07'44			13673 Sep 23 21:21	0°♍	
	13671 Mar 28 04:59	0°♎			13673 Oct 20 16:16	0°♎	
	13671 Apr 21 12:30	0°♏			13673 Nov 15 08:38	0°♏	
	13671 May 15 19:56	0°♐		asc. node	13673 Dec 07 02:02	25°♏54'24	
	13671 Jun 09 05:19	0°♑			13673 Dec 10 11:47	0°♑	
asc. node	13671 Jun 21 19:02	15°♑21'50			13674 Jan 04 06:41	0°♒	
	13671 Jul 03 20:21	0°♒			13674 Jan 28 20:12	0°♓	
	13671 Jul 28 23:10	0°♓			13674 Feb 22 06:29	0°♋	
	13671 Aug 24 02:45	0°♌		morning set	13674 Mar 07 21:58	16°♋48'28	
evening max el	13671 Sep 14 19:19	23°♌00'46	46°32'50		13674 Mar 18 14:36	0°♍	
	13671 Sep 21 23:54	0°♎		desc. node	13674 Mar 28 17:59	12°♍31'59	
desc. node	13671 Oct 11 18:53	16°♎20'08			13674 Apr 11 20:36	0°♏	
greatest brilliancy	13671 Oct 24 03:29	23°♎00'33	-4.8m	max. Earth dist.	13674 Apr 12 18:11	1°♏06'54	1.72551 AU
retrograde	13671 Nov 03 22:07	25°♎09'33					
evening set	13671 Nov 21 13:20	19°♎16'25		superior conj	13674 Apr 15 09:56	4°♏24'32	-0°41'12
min. Earth dist.	13671 Nov 24 15:30	17°♎23'02	0.28477 AU	minimum elong	13674 Apr 15 00:57	3°♏56'40	0°41'17
inferior conj	13671 Nov 25 07:40	16°♎57'54	-8°26'28		13674 May 06 00:11	0°♏	
minimum elong	13671 Nov 25 01:17	17°♎07'50	8°24'52	evening rise	13674 May 24 09:27	22°♏54'53	
morning rise	13671 Nov 28 13:24	14°♎58'27			13674 May 30 01:41	0°♐	
direct	13671 Dec 16 11:58	8°♎55'24			13674 Jun 23 02:23	0°♑	
greatest brilliancy	13671 Dec 26 07:10	10°♎39'43	-4.8m		13674 Jul 17 04:13	0°♒	
	13672 Jan 24 14:47	0°♓		asc. node	13674 Jul 19 07:48	2°♒40'18	
asc. node	13672 Feb 01 21:40	7°♓37'09			13674 Aug 10 09:27	0°♓	
morning max el	13672 Feb 03 10:05	9°♓04'35	45°42'59		13674 Sep 03 21:10	0°♌	
	13672 Feb 23 18:58	0°♊			13674 Sep 28 20:49	0°♍	
	13672 Mar 21 14:30	0°♋			13674 Oct 24 19:48	0°♎	
	13672 Apr 16 03:47	0°♌		desc. node	13674 Nov 08 04:35	15°♓45'20	
	13672 May 11 01:14	0°♍			13674 Nov 21 23:34	0°♏	
desc. node	13672 May 23 20:03	15°♍37'06		evening max el	13674 Nov 25 02:37	3°♏04'13	46°03'57
	13672 Jun 04 12:39	0°♎			13674 Dec 30 03:13	0°♋	
	13672 Jun 28 17:14	0°♏		greatest brilliancy	13675 Jan 03 06:05	1°♋40'06	-4.8m
	13672 Jul 22 17:43	0°♑		retrograde	13675 Jan 13 05:42	3°♋28'16	
morning set	13672 Aug 04 12:13	15°♑59'26			13675 Jan 26 12:42	30°♌	
	13672 Aug 15 16:33	0°♒		evening set	13675 Jan 29 19:31	28°♌12'28	
	13672 Sep 08 15:28	0°♓		inferior conj	13675 Feb 03 14:58	25°♌15'28	-5°47'11
				minimum elong	13675 Feb 04 01:08	24°♌59'31	5°44'10
superior conj	13672 Sep 13 02:07	5°♌33'40	-0°00'52	min. Earth dist.	13675 Feb 04 00:08	25°♌01'04	0.28719 AU
minimum elong	13672 Sep 13 02:19	5°♌34'16	0°00'52	morning rise	13675 Feb 09 06:41	21°♌49'45	
behind sun begin	13672 Sep 12 01:35	4°♌16'55		direct	13675 Feb 25 00:15	17°♌02'38	
behind sun end	13672 Sep 14 03:02	6°♌51'36		asc. node	13675 Mar 01 06:55	17°♌23'52	
asc. node	13672 Sep 13 10:29	5°♌59'53		greatest brilliancy	13675 Mar 07 19:06	19°♌11'05	-4.8m
max. Earth dist.	13672 Sep 14 16:52	7°♌34'53	1.71742 AU		13675 Mar 25 22:51	0°♋	
	13672 Oct 02 15:30	0°♌		morning max el	13675 Apr 15 10:53	18°♋14'14	46°04'24
evening rise	13672 Oct 21 15:57	23°♌42'09			13675 Apr 26 23:41	0°♍	
	13672 Oct 26 17:33	0°♍			13675 May 24 02:50	0°♎	
	13672 Nov 19 23:02	0°♏			13675 Jun 18 16:26	0°♏	
	13672 Dec 14 10:00	0°♐		desc. node	13675 Jun 21 08:14	3°♏10'51	
desc. node	13673 Jan 03 01:36	23°♐49'57			13675 Jul 13 11:41	0°♑	
	13673 Jan 08 04:30	0°♋			13675 Aug 06 21:11	0°♒	
	13673 Feb 02 08:22	0°♌			13675 Aug 31 01:59	0°♓	
	13673 Feb 28 00:44	0°♍			13675 Sep 24 05:04	0°♌	
	13673 Mar 26 15:12	0°♎		asc. node	13675 Oct 12 01:04	22°♌11'14	
evening max el	13673 Apr 19 09:49	24°♏55'53	46°21'12	morning set	13675 Oct 17 12:22	28°♌59'31	
	13673 Apr 24 15:34	0°♏			13675 Oct 18 07:49	0°♍	
asc. node	13673 Apr 25 23:24	1°♏14'56			13675 Nov 11 10:54	0°♎	
greatest brilliancy	13673 May 29 17:08	24°♏58'13	-4.9m				
retrograde	13673 Jun 08 05:46	26°♏40'35		superior conj	13675 Nov 24 11:36	16°♎10'43	1°21'10
evening set	13673 Jun 26 07:13	20°♏27'04		minimum elong	13675 Nov 24 05:09	15°♎50'40	1°22'02
inferior conj	13673 Jun 28 22:03	18°♏50'58	9°00'18	max. Earth dist.	13675 Nov 26 17:46	18°♎58'44	1.72656 AU

	13675 Dec 05 15:04	0°☾	greatest brilliancy	13678 May 16 16:42	28°☿11'25	-4.8m
	13675 Dec 29 21:26	0°☿		13678 May 20 21:49	0°☿	
evening rise	13675 Dec 31 13:50	2°☿04'34	morning max el	13678 Jun 25 12:32	28°☿29'18	46°47'14
	13676 Jan 23 07:01	0°☿		13678 Jun 27 00:37	0°☿	
desc. node	13676 Jan 31 14:53	10°☿11'53	desc. node	13678 Jul 18 19:05	23°☿16'29	
	13676 Feb 16 20:05	0°☿		13678 Jul 24 18:32	0°☿	
	13676 Mar 12 12:18	0°☿		13678 Aug 19 13:11	0°☿	
	13676 Apr 06 08:06	0°☿		13678 Sep 13 13:04	0°☿	
	13676 May 01 10:26	0°☿		13678 Oct 08 04:44	0°☿	
asc. node	13676 May 23 09:26	25°☿41'42		13678 Nov 01 16:25	0°☿	
	13676 May 27 03:25	0°☿	asc. node	13678 Nov 08 15:04	8°☿32'00	
	13676 Jun 23 08:03	0°☿		13678 Nov 26 01:36	0°☿	
evening max el	13676 Jul 01 13:29	8°☿26'34 46°44'36		13678 Dec 20 09:08	0°☿	
	13676 Jul 25 21:01	0°☿	morning set	13678 Dec 26 17:05	7°☿49'10	
greatest brilliancy	13676 Aug 10 08:37	8°☿50'25 -4.9m		13679 Jan 13 16:05	0°☿	
retrograde	13676 Aug 20 18:34	10°☿51'43				
evening set	13676 Sep 04 08:57	6°☿41'10	superior conj	13679 Feb 01 12:25	23°☿15'52 0°58'45	
inferior conj	13676 Sep 10 13:12	3°☿03'53 0°30'18	minimum elong	13679 Feb 01 22:17	23°☿46'18 0°59'06	
minimum elong	13676 Sep 10 14:23	3°☿02'05 0°29'52	max. Earth dist.	13679 Feb 02 00:26	23°☿52'56 1.73156 AU	
min. Earth dist.	13676 Sep 10 08:24	3°☿11'14 0.27039 AU		13679 Feb 06 23:27	0°☿	
desc. node	13676 Sep 12 11:45	1°☿53'04	desc. node	13679 Feb 28 05:13	26°☿11'01	
	13676 Sep 15 17:27	30°☿		13679 Mar 03 07:31	0°☿	
morning rise	13676 Sep 16 20:11	29°☿23'46	evening rise	13679 Mar 11 08:43	9°☿55'12	
direct	13676 Oct 01 07:41	25°☿19'46		13679 Mar 27 15:43	0°☿	
greatest brilliancy	13676 Oct 11 02:54	27°☿05'50 -4.8m		13679 Apr 20 23:26	0°☿	
	13676 Oct 17 17:07	0°☿		13679 May 15 07:09	0°☿	
morning max el	13676 Nov 19 17:51	26°☿13'42 46°10'32		13679 Jun 08 17:00	0°☿	
	13676 Nov 23 13:54	0°☿	asc. node	13679 Jun 20 20:51	14°☿50'45	
	13676 Dec 21 21:11	0°☿		13679 Jul 03 08:48	0°☿	
asc. node	13677 Jan 03 13:29	14°☿16'14		13679 Jul 28 13:00	0°☿	
	13677 Jan 17 05:02	0°☿		13679 Aug 23 19:26	0°☿	
	13677 Feb 11 14:53	0°☿	evening max el	13679 Sep 12 10:13	20°☿43'38 46°33'44	
	13677 Mar 08 12:30	0°☿		13679 Sep 22 01:42	0°☿	
	13677 Apr 02 02:36	0°☿	desc. node	13679 Oct 10 20:57	15°☿02'32	
desc. node	13677 Apr 25 08:23	28°☿36'43	greatest brilliancy	13679 Oct 21 17:23	20°☿43'54 -4.8m	
	13677 Apr 26 11:20	0°☿	retrograde	13679 Nov 01 13:55	22°☿54'41	
morning set	13677 May 19 03:07	28°☿06'30	evening set	13679 Nov 19 00:53	17°☿06'36	
	13677 May 20 15:34	0°☿	min. Earth dist.	13679 Nov 22 05:18	15°☿10'09 0.28434 AU	
	13677 Jun 13 16:11	0°☿	inferior conj	13679 Nov 22 22:34	14°☿43'21 -8°19'37	
max. Earth dist.	13677 Jun 26 02:59	15°☿35'55 1.71541 AU	minimum elong	13679 Nov 22 15:31	14°☿54'17 8°17'53	
			morning rise	13679 Nov 26 06:22	12°☿41'08	
superior conj	13677 Jun 28 01:46	18°☿02'33 -1°25'37	direct	13679 Dec 14 02:44	6°☿41'32	
minimum elong	13677 Jun 28 06:34	18°☿17'35 1°26'36	greatest brilliancy	13679 Dec 23 20:42	8°☿25'15 -4.8m	
	13677 Jul 07 14:37	0°☿		13680 Jan 24 17:20	0°☿	
	13677 Jul 31 12:36	0°☿	asc. node	13680 Jan 31 23:42	6°☿48'08	
evening rise	13677 Aug 07 07:43	8°☿30'56	morning max el	13680 Feb 01 01:31	6°☿52'30 45°43'06	
asc. node	13677 Aug 15 21:45	19°☿15'52		13680 Feb 23 11:26	0°☿	
	13677 Aug 24 11:48	0°☿		13680 Mar 21 04:00	0°☿	
	13677 Sep 17 13:44	0°☿		13680 Apr 15 15:58	0°☿	
	13677 Oct 11 20:18	0°☿		13680 May 10 12:43	0°☿	
	13677 Nov 05 10:44	0°☿	desc. node	13680 May 22 21:49	15°☿08'04	
	13677 Nov 30 14:09	0°☿		13680 Jun 03 23:43	0°☿	
desc. node	13677 Dec 05 15:17	5°☿54'50		13680 Jun 28 04:03	0°☿	
	13677 Dec 26 14:43	0°☿		13680 Jul 22 04:22	0°☿	
	13678 Jan 23 06:42	0°☿	morning set	13680 Aug 02 00:53	13°☿35'32	
evening max el	13678 Feb 04 01:31	11°☿47'17 45°56'33		13680 Aug 15 03:06	0°☿	
	13678 Feb 24 23:09	0°☿		13680 Sep 08 01:58	0°☿	
greatest brilliancy	13678 Mar 15 06:15	10°☿29'57 -4.8m				
retrograde	13678 Mar 25 04:35	12°☿19'29	superior conj	13680 Sep 10 15:19	3°☿11'57 -0°04'37	
asc. node	13678 Mar 28 16:08	12°☿04'52	minimum elong	13680 Sep 10 16:28	3°☿15'32 0°04'36	
evening set	13678 Apr 09 04:26	7°☿56'10	behind sun begin	13680 Sep 09 16:27	2°☿00'23	
inferior conj	13678 Apr 15 06:14	4°☿18'07 4°15'32	behind sun end	13680 Sep 11 16:29	4°☿30'41	
minimum elong	13678 Apr 14 21:31	4°☿31'46 4°12'35	max. Earth dist.	13680 Sep 12 07:00	5°☿16'07 1.71721 AU	
min. Earth dist.	13678 Apr 15 07:19	4°☿16'27 0.27990 AU	asc. node	13680 Sep 12 12:23	5°☿32'55	
morning rise	13678 Apr 20 14:12	1°☿03'46		13680 Oct 02 02:00	0°☿	
	13678 Apr 22 12:41	30°☿	evening rise	13680 Oct 19 07:14	21°☿27'42	
direct	13678 May 06 07:45	26°☿11'26		13680 Oct 26 04:05	0°☿	



	13680 Nov 19 09:42	0°♁			13683 Jun 18 05:00	0°♈		
	13680 Dec 13 20:55	0°♊		desc. node	13683 Jun 20 10:07	2°♈39'07		
desc. node	13681 Jan 02 03:22	23°♊21'17			13683 Jul 12 23:27	0°♉		
	13681 Jan 07 15:54	0°♋			13683 Aug 06 08:28	0°♊		
	13681 Feb 01 20:35	0°♌			13683 Aug 30 12:56	0°♋		
	13681 Feb 27 14:22	0°♍			13683 Sep 23 15:44	0°♌		
	13681 Mar 26 07:48	0°♎		asc. node	13683 Oct 11 02:53	21°♌44'04		
evening max el	13681 Apr 17 00:28	22°♎38'15 46°20'08		morning set	13683 Oct 15 03:08	26°♌43'31		
	13681 Apr 24 17:09	0°♏			13683 Oct 17 18:18	0°♍		
asc. node	13681 Apr 25 01:23	0°♏19'01			13683 Nov 10 21:16	0°♎		
greatest brilliancy	13681 May 27 05:53	22°♏35'46 -4.8m						
retrograde	13681 Jun 05 19:14	24°♏18'11		superior conj	13683 Nov 22 04:06	14°♎00'56 1°19'58		
evening set	13681 Jun 23 21:58	18°♏02'26		minimum elong	13683 Nov 21 21:02	13°♎39'00 1°20'49		
inferior conj	13681 Jun 26 11:20	16°♏28'17 9°04'38		max. Earth dist.	13683 Nov 24 09:49	16°♎47'37 1.72624 AU		
minimum elong	13681 Jun 26 15:02	16°♏22'33 9°03'24			13683 Dec 05 01:23	0°♏		
min. Earth dist.	13681 Jun 26 21:50	16°♏12'01 0.27418 AU		evening rise	13683 Dec 29 06:17	29°♏55'16		
morning rise	13681 Jun 29 08:04	14°♏42'57			13683 Dec 29 07:49	0°♐		
direct	13681 Jul 17 08:19	8°♏32'10			13684 Jan 22 17:34	0°♑		
greatest brilliancy	13681 Jul 27 07:49	10°♏25'32 -4.9m		desc. node	13684 Jan 30 16:48	9°♑45'11		
desc. node	13681 Aug 15 04:41	21°♏41'46			13684 Feb 16 06:55	0°♒		
	13681 Aug 25 00:01	0°♑			13684 Mar 11 23:36	0°♓		
morning max el	13681 Sep 05 20:10	11°♑19'44 46°52'41			13684 Apr 05 20:05	0°♈		
	13681 Sep 23 14:59	0°♒			13684 Apr 30 23:32	0°♉		
	13681 Oct 20 06:25	0°♓		asc. node	13684 May 22 11:18	25°♉04'47		
	13681 Nov 14 21:09	0°♈			13684 May 26 18:34	0°♊		
asc. node	13681 Dec 06 03:49	25°♈24'40			13684 Jun 23 04:09	0°♋		
	13681 Dec 09 23:22	0°♉		evening max el	13684 Jun 29 01:45	6°♋00'47 46°44'13		
	13682 Jan 03 17:43	0°♊			13684 Jul 26 20:01	0°♌		
	13682 Jan 28 06:55	0°♋		greatest brilliancy	13684 Aug 07 23:45	6°♌28'38 -4.9m		
	13682 Feb 21 17:00	0°♌		retrograde	13684 Aug 18 07:20	8°♌28'17		
morning set	13682 Mar 05 13:52	14°♌37'21		evening set	13684 Sep 01 23:11	4°♌16'14		
	13682 Mar 18 01:02	0°♍		inferior conj	13684 Sep 08 02:08	0°♌41'08 0°54'30		
desc. node	13682 Mar 27 19:49	12°♍05'22		minimum elong	13684 Sep 08 04:15	0°♌37'53 0°53'42		
max. Earth dist.	13682 Apr 10 08:26	28°♍49'58 1.72587 AU		min. Earth dist.	13684 Sep 07 23:03	0°♌45'50 0.27016 AU		
	13682 Apr 11 07:02	0°♎			13684 Sep 09 05:06	30°♌00'00		
				desc. node	13684 Sep 11 13:49	28°♌35'05		
superior conj	13682 Apr 12 23:54	2°♎06'38 -0°37'58		morning rise	13684 Sep 14 09:33	27°♌00'16		
minimum elong	13682 Apr 12 15:30	1°♎40'34 0°38'02		direct	13684 Sep 28 19:43	22°♌56'50		
	13682 May 05 10:42	0°♏		greatest brilliancy	13684 Oct 08 16:59	24°♌44'27 -4.8m		
evening rise	13682 May 21 22:16	20°♏32'02			13684 Oct 19 09:11	0°♍		
	13682 May 29 12:20	0°♐		morning max el	13684 Nov 17 06:58	23°♍53'34 46°12'19		
	13682 Jun 22 13:12	0°♑			13684 Nov 23 10:51	0°♎		
	13682 Jul 16 15:14	0°♒			13684 Dec 21 12:18	0°♏		
asc. node	13682 Jul 18 09:40	2°♒11'50		asc. node	13685 Jan 02 15:30	13°♏42'33		
	13682 Aug 09 20:46	0°♓			13685 Jan 16 17:54	0°♑		
	13682 Sep 03 09:00	0°♈			13685 Feb 11 02:39	0°♒		
	13682 Sep 28 09:39	0°♉			13685 Mar 07 23:40	0°♓		
	13682 Oct 24 10:45	0°♊			13685 Apr 01 13:29	0°♋		
desc. node	13682 Nov 07 06:25	15°♊04'45		desc. node	13685 Apr 24 10:09	28°♋08'59		
	13682 Nov 21 20:28	0°♋			13685 Apr 25 22:04	0°♌		
evening max el	13682 Nov 22 17:33	0°♋51'25 46°04'34		morning set	13685 May 16 15:15	25°♌41'44		
greatest brilliancy	13682 Dec 31 22:08	29°♋30'25 -4.8m			13685 May 20 02:14	0°♍		
	13683 Jan 02 10:52	0°♌			13685 Jun 13 02:50	0°♎		
retrograde	13683 Jan 10 20:51	1°♌17'52		max. Earth dist.	13685 Jun 23 12:15	13°♎01'12 1.71565 AU		
	13683 Jan 18 22:57	30°♌00'00						
evening set	13683 Jan 27 14:13	25°♌58'01		superior conj	13685 Jun 25 13:38	15°♎35'58 -1°26'19		
inferior conj	13683 Feb 01 06:51	23°♌04'58 -6°02'36		minimum elong	13685 Jun 25 17:26	15°♎47'52 1°27'19		
minimum elong	13683 Feb 01 17:06	22°♌48'50 5°59'36			13685 Jul 07 01:15	0°♏		
min. Earth dist.	13683 Feb 01 15:53	22°♌50'44 0.28740 AU			13685 Jul 30 23:18	0°♑		
morning rise	13683 Feb 06 19:55	19°♌42'37		evening rise	13685 Aug 04 19:21	6°♑03'28		
direct	13683 Feb 22 16:02	14°♌52'12		asc. node	13685 Aug 14 23:40	18°♑48'09		
asc. node	13683 Feb 28 09:00	15°♌29'22			13685 Aug 23 22:37	0°♒		
greatest brilliancy	13683 Mar 05 10:41	16°♌59'49 -4.8m			13685 Sep 17 00:42	0°♓		
	13683 Mar 26 09:20	0°♍			13685 Oct 11 07:31	0°♈		
morning max el	13683 Apr 13 01:07	15°♍58'13 46°02'56			13685 Nov 04 22:24	0°♉		
	13683 Apr 26 17:34	0°♎			13685 Nov 30 02:40	0°♊		
	13683 May 23 16:57	0°♏		desc. node	13685 Dec 04 17:10	5°♊23'07		

	13685 Dec 26 05:02	0° $\text{H}$			13688 Jul 21 15:22	0° $\text{Q}$	
	13686 Jan 23 01:28	0° $\text{Y}$		morning set	13688 Jul 30 13:07	11° $\text{Q}$ 09'12	
evening max el	13686 Feb 01 16:22	9° $\text{Y}$ 33'49	45°56'16		13688 Aug 14 14:02	0° $\text{M}$	
	13686 Feb 25 16:03	0° $\text{B}$			13688 Sep 07 12:50	0° $\text{A}$	
greatest brilliancy	13686 Mar 12 20:07	8° $\text{B}$ 13'46	-4.8m				
retrograde	13686 Mar 22 19:37	10° $\text{B}$ 04'11		superior conj	13688 Sep 08 04:02	0° $\text{A}$ 47'33	-0°08'22
asc. node	13686 Mar 27 18:05	9° $\text{B}$ 34'34		minimum elong	13688 Sep 08 06:08	0° $\text{A}$ 54'07	0°08'21
evening set	13686 Apr 06 17:39	5° $\text{B}$ 42'19		behind sun begin	13688 Sep 07 08:33	29° $\text{M}$ 46'34	
inferior conj	13686 Apr 12 21:05	2° $\text{B}$ 02'05	3°55'29	behind sun end	13688 Sep 09 03:43	2° $\text{A}$ 01'40	
minimum elong	13686 Apr 12 12:53	2° $\text{B}$ 14'52	3°52'42	max. Earth dist.	13688 Sep 09 20:55	2° $\text{A}$ 55'30	1.71693 AU
min. Earth dist.	13686 Apr 12 22:17	2° $\text{B}$ 00'13	0.28015 AU	asc. node	13688 Sep 11 14:08	5° $\text{A}$ 04'27	
	13686 Apr 16 04:07	30° $\text{R}$ $\text{Y}$			13688 Oct 01 12:49	0° $\text{M}$	
morning rise	13686 Apr 18 07:47	28° $\text{Y}$ 44'09		evening rise	13688 Oct 16 22:09	19° $\text{M}$ 10'59	
direct	13686 May 03 23:00	23° $\text{Y}$ 54'56			13688 Oct 25 14:56	0° $\text{A}$	
greatest brilliancy	13686 May 14 08:31	25° $\text{Y}$ 55'49	-4.8m		13688 Nov 18 20:42	0° $\text{B}$	
	13686 May 22 17:51	0° $\text{B}$			13688 Dec 13 08:12	0° $\approx$	
morning max el	13686 Jun 23 04:10	26° $\text{B}$ 13'27	46°46'06	desc. node	13689 Jan 01 05:21	22° $\approx$ 52'17	
	13686 Jun 26 21:40	0° $\text{II}$			13689 Jan 07 03:39	0° $\text{H}$	
desc. node	13686 Jul 17 21:07	22° $\text{II}$ 36'32			13689 Feb 01 09:08	0° $\text{Y}$	
	13686 Jul 24 10:04	0° $\text{B}$			13689 Feb 27 04:24	0° $\text{B}$	
	13686 Aug 19 02:36	0° $\text{Q}$			13689 Mar 26 00:58	0° $\text{II}$	
	13686 Sep 13 01:24	0° $\text{M}$		evening max el	13689 Apr 14 14:37	20° $\text{II}$ 18'49	46°18'56
	13686 Oct 07 16:24	0° $\text{A}$		asc. node	13689 Apr 24 03:15	29° $\text{II}$ 21'00	
	13686 Nov 01 03:38	0° $\text{M}$			13689 Apr 24 20:30	0° $\text{B}$	
asc. node	13686 Nov 07 16:48	8° $\text{M}$ 03'13		greatest brilliancy	13689 May 24 19:05	20° $\text{B}$ 13'12	-4.8m
	13686 Nov 25 12:29	0° $\text{A}$		retrograde	13689 Jun 03 08:05	21° $\text{B}$ 55'02	
	13686 Dec 19 19:47	0° $\text{B}$		evening set	13689 Jun 21 12:13	15° $\text{B}$ 38'01	
morning set	13686 Dec 24 09:58	5° $\text{B}$ 40'15		inferior conj	13689 Jun 24 00:43	14° $\text{B}$ 04'55	9°07'47
	13687 Jan 13 02:37	0° $\approx$		minimum elong	13689 Jun 24 03:29	14° $\text{B}$ 00'37	9°06'38
				min. Earth dist.	13689 Jun 24 10:43	13° $\text{B}$ 49'24	0.27447 AU
superior conj	13687 Jan 30 05:10	21° $\approx$ 07'01	1°01'09	morning rise	13689 Jun 26 18:43	12° $\text{B}$ 23'25	
minimum elong	13687 Jan 30 15:03	21° $\approx$ 37'32	1°01'32	direct	13689 Jul 14 21:57	6° $\text{B}$ 08'24	
max. Earth dist.	13687 Jan 30 21:55	21° $\approx$ 58'41	1.73154 AU	greatest brilliancy	13689 Jul 24 21:06	8° $\text{B}$ 01'02	-4.9m
	13687 Feb 06 09:58	0° $\text{H}$		desc. node	13689 Aug 14 06:43	20° $\text{B}$ 30'08	
desc. node	13687 Feb 27 07:04	25° $\text{H}$ 44'06			13689 Aug 25 04:21	0° $\text{Q}$	
	13687 Mar 02 18:08	0° $\text{Y}$		morning max el	13689 Sep 03 09:19	8° $\text{Q}$ 55'06	46°53'23
evening rise	13687 Mar 09 00:44	7° $\text{Y}$ 43'56			13689 Sep 23 08:50	0° $\text{M}$	
	13687 Mar 27 02:30	0° $\text{B}$			13689 Oct 19 20:58	0° $\text{A}$	
	13687 Apr 20 10:29	0° $\text{II}$			13689 Nov 14 10:04	0° $\text{M}$	
	13687 May 14 18:34	0° $\text{B}$		asc. node	13689 Dec 05 05:49	24° $\text{M}$ 54'20	
	13687 Jun 08 04:57	0° $\text{Q}$			13689 Dec 09 11:20	0° $\text{A}$	
asc. node	13687 Jun 19 22:47	14° $\text{Q}$ 19'13			13690 Jan 03 05:07	0° $\text{B}$	
	13687 Jul 02 21:35	0° $\text{M}$			13690 Jan 27 17:59	0° $\approx$	
	13687 Jul 28 03:12	0° $\text{A}$			13690 Feb 21 03:53	0° $\text{H}$	
	13687 Aug 23 12:42	0° $\text{M}$		morning set	13690 Mar 03 06:05	12° $\text{H}$ 26'01	
evening max el	13687 Sep 10 01:54	18° $\text{M}$ 27'48	46°34'43		13690 Mar 17 11:50	0° $\text{Y}$	
	13687 Sep 22 05:18	0° $\text{A}$		desc. node	13690 Mar 26 21:36	11° $\text{Y}$ 37'31	
desc. node	13687 Oct 09 22:49	13° $\text{A}$ 41'31		max. Earth dist.	13690 Apr 07 22:55	26° $\text{Y}$ 32'46	1.72620 AU
greatest brilliancy	13687 Oct 19 07:29	18° $\text{A}$ 26'55	-4.8m				
retrograde	13687 Oct 30 05:51	20° $\text{A}$ 39'02		superior conj	13690 Apr 10 14:27	29° $\text{Y}$ 49'34	-0°34'42
evening set	13687 Nov 16 12:22	14° $\text{A}$ 56'25		minimum elong	13690 Apr 10 06:39	29° $\text{Y}$ 25'23	0°34'46
min. Earth dist.	13687 Nov 19 19:01	12° $\text{A}$ 56'41	0.28385 AU		13690 Apr 10 17:49	0° $\text{B}$	
inferior conj	13687 Nov 20 13:27	12° $\text{A}$ 28'07	-8°11'58		13690 May 04 21:33	0° $\text{II}$	
minimum elong	13687 Nov 20 05:47	12° $\text{A}$ 40'00	8°10'07	evening rise	13690 May 19 11:42	18° $\text{II}$ 10'13	
morning rise	13687 Nov 23 23:28	10° $\text{A}$ 22'49			13690 May 28 23:18	0° $\text{B}$	
direct	13687 Dec 11 17:48	4° $\text{A}$ 27'13			13690 Jun 22 00:21	0° $\text{Q}$	
greatest brilliancy	13687 Dec 21 09:42	6° $\text{A}$ 09'34	-4.8m		13690 Jul 16 02:39	0° $\text{M}$	
	13688 Jan 24 18:37	0° $\text{B}$		asc. node	13690 Jul 17 11:37	1° $\text{M}$ 42'20	
morning max el	13688 Jan 29 16:57	4° $\text{B}$ 40'02	45°43'21		13690 Aug 09 08:34	0° $\text{A}$	
asc. node	13688 Jan 31 01:41	5° $\text{B}$ 59'28			13690 Sep 02 21:26	0° $\text{M}$	
	13688 Feb 23 03:43	0° $\approx$			13690 Sep 27 23:11	0° $\text{A}$	
	13688 Mar 20 17:30	0° $\text{H}$			13690 Oct 24 02:35	0° $\text{B}$	
	13688 Apr 15 04:13	0° $\text{Y}$		desc. node	13690 Nov 06 08:25	14° $\text{B}$ 22'22	
	13688 May 10 00:21	0° $\text{B}$		evening max el	13690 Nov 20 07:36	28° $\text{B}$ 34'38	46°05'24
desc. node	13688 May 21 23:41	14° $\text{B}$ 38'45			13690 Nov 21 18:54	0° $\approx$	
	13688 Jun 03 11:00	0° $\text{II}$		greatest brilliancy	13690 Dec 29 14:11	27° $\approx$ 19'07	-4.8m
	13688 Jun 27 15:09	0° $\text{B}$		retrograde	13691 Jan 08 11:52	29° $\approx$ 06'06	

evening set	13691 Jan 25 08:53	23°  41'50		superior conj	13693 Jun 23 01:45	13°  09'20	-1°26'50
inferior conj	13691 Jan 29 22:41	20°  53'02	-6°17'25	minimum elong	13693 Jun 23 04:33	13°  18'04	1°27'53
minimum elong	13691 Jan 30 08:59	20°  36'50	6°14'28		13693 Jul 06 12:09	0° 	
min. Earth dist.	13691 Jan 30 07:47	20°  38'43	0.28759 AU		13693 Jul 30 10:13	0° 	
morning rise	13691 Feb 04 08:58	17°  34'23		evening rise	13693 Aug 02 07:19	3°   36'27	
direct	13691 Feb 20 07:25	12°  40'06		asc. node	13693 Aug 14 01:26	18°  19'23	
asc. node	13691 Feb 27 10:58	13°  37'35			13693 Aug 23 09:37	0° 	
greatest brilliancy	13691 Mar 03 02:40	14°  47'43	-4.8m		13693 Sep 16 11:51	0° 	
	13691 Mar 26 17:32	0° 			13693 Oct 10 18:57	0° 	
morning max el	13691 Apr 10 15:31	13°  41'25	46°01'44		13693 Nov 04 10:21	0° 	
	13691 Apr 26 11:26	0° 			13693 Nov 29 15:36	0° 	
	13691 May 23 07:17	0° 		desc. node	13693 Dec 03 19:09	4°  50'32	
	13691 Jun 17 17:49	0° 			13693 Dec 25 19:56	0° 	
desc. node	13691 Jun 19 12:09	2°  10'03			13694 Jan 22 21:14	0° 	
	13691 Jul 12 11:30	0° 		evening max el	13694 Jan 30 08:02	7°  21'22	45°56'04
	13691 Aug 05 20:04	0° 			13694 Feb 26 15:43	0° 	
	13691 Aug 30 00:14	0° 		greatest brilliancy	13694 Mar 10 09:54	5°  56'40	-4.8m
	13691 Sep 23 02:50	0° 		retrograde	13694 Mar 20 10:42	7°  47'42	
asc. node	13691 Oct 10 04:41	21°  15'25		asc. node	13694 Mar 26 20:01	6°  58'01	
morning set	13691 Oct 12 17:23	24°  24'18		evening set	13694 Apr 04 07:03	3°  27'24	
	13691 Oct 17 05:16	0° 		inferior conj	13694 Apr 10 11:49	29°  45'06	3°35'09
	13691 Nov 10 08:08	0° 		minimum elong	13694 Apr 10 04:13	29°  56'59	3°32'31
					13694 Apr 10 02:17	30°  R 	
superior conj	13691 Nov 19 20:02	11°  47'49	1°18'37	min. Earth dist.	13694 Apr 10 13:00	29°  43'15	0.28034 AU
minimum elong	13691 Nov 19 12:24	11°  47'07	1°19'25	morning rise	13694 Apr 16 01:06	26°  23'44	
max. Earth dist.	13691 Nov 21 23:07	14°  47'26'23	1.72593 AU	direct	13694 May 01 14:29	21°  37'48	
	13691 Dec 04 12:13	0° 		greatest brilliancy	13694 May 11 23:44	23°  38'49	-4.8m
evening rise	13691 Dec 26 22:18	27°  34'13			13694 May 24 00:07	0° 	
	13691 Dec 28 18:41	0° 		morning max el	13694 Jun 20 19:54	23°  57'29	46°44'54
	13692 Jan 22 04:35	0° 			13694 Jun 26 18:11	0° 	
desc. node	13692 Jan 29 18:38	9°  41'53		desc. node	13694 Jul 16 23:02	21°  15'15	
	13692 Feb 15 18:13	0° 			13694 Jul 24 01:30	0° 	
	13692 Mar 11 11:22	0° 			13694 Aug 18 16:00	0° 	
	13692 Apr 05 08:32	0° 			13694 Sep 12 13:44	0° 	
	13692 Apr 30 13:06	0° 			13694 Oct 07 04:04	0° 	
asc. node	13692 May 21 13:21	24°  27'11			13694 Oct 31 14:51	0° 	
	13692 May 26 10:15	0° 		asc. node	13694 Nov 06 18:46	7°  13'50'04	
	13692 Jun 23 01:11	0° 			13694 Nov 24 23:23	0° 	
evening max el	13692 Jun 26 14:20	3°  35'22	46°43'58		13694 Dec 19 06:31	0° 	
	13692 Jul 28 04:18	0° 		morning set	13694 Dec 22 02:46	3°  30'49	
greatest brilliancy	13692 Aug 05 14:22	4°  25'59	-4.9m		13695 Jan 12 13:16	0° 	
retrograde	13692 Aug 15 20:39	6°  24'52					
evening set	13692 Aug 30 13:46	1°  50'39		superior conj	13695 Jan 27 21:42	18°  57'03	1°03'28
	13692 Sep 02 19:44	30°  R 		minimum elong	13695 Jan 28 07:33	19°  27'27	1°03'54
inferior conj	13692 Sep 05 15:14	28°  18'00	1°18'22	max. Earth dist.	13695 Jan 28 18:36	20°  01'33	1.73153 AU
minimum elong	13692 Sep 05 18:17	28°  13'21	1°17'14		13695 Feb 05 20:38	0° 	
min. Earth dist.	13692 Sep 05 13:36	28°  20'31	0.27003 AU	desc. node	13695 Feb 26 08:48	25°  16'21	
desc. node	13692 Sep 10 15:42	25°  19'28			13695 Mar 02 04:53	0° 	
morning rise	13692 Sep 11 22:56	24°  19'36'55		evening rise	13695 Mar 06 16:22	5°  31'02	
direct	13692 Sep 26 08:15	20°  19'33'22			13695 Mar 26 13:25	0° 	
greatest brilliancy	13692 Oct 06 07:04	22°  22'32	-4.8m		13695 Apr 19 21:38	0° 	
	13692 Oct 20 13:28	0° 			13695 May 14 06:05	0° 	
morning max el	13692 Nov 14 21:15	21°  23'50'04	46°13'50		13695 Jun 07 16:59	0° 	
	13692 Nov 23 07:32	0° 		asc. node	13695 Jun 19 00:43	13°  24'31	
	13692 Dec 21 03:41	0° 			13695 Jul 02 10:28	0° 	
asc. node	13693 Jan 01 17:29	13°  47'38			13695 Jul 27 17:34	0° 	
	13693 Jan 16 07:07	0° 			13695 Aug 23 06:17	0° 	
	13693 Feb 10 14:46	0° 		evening max el	13695 Sep 07 17:56	16°  13'03	46°35'43
	13693 Mar 07 11:11	0° 			13695 Sep 22 10:35	0° 	
	13693 Apr 01 00:39	0° 		desc. node	13695 Oct 09 00:52	12°  41'18'41	
desc. node	13693 Apr 23 11:57	27°  40'30		greatest brilliancy	13695 Oct 16 22:14	16°  41'11'17	-4.8m
	13693 Apr 25 09:05	0° 		retrograde	13695 Oct 27 21:37	18°  47'23'51	
morning set	13693 May 14 03:34	23°  51'16'43		evening set	13695 Nov 13 23:56	12°  47'11	
	13693 May 19 13:11	0° 		min. Earth dist.	13695 Nov 17 09:04	10°  43'43	0.28334 AU
	13693 Jun 12 13:44	0° 		inferior conj	13695 Nov 18 04:27	10°  41'33'8	-8°03'37
max. Earth dist.	13693 Jun 20 23:31	10°  23'15'54	1.71585 AU	minimum elong	13695 Nov 17 20:13	10°  47'26'25	8°01'36
				morning rise	13695 Nov 21 16:50	8°  47'04'50	

direct	13695 Dec 09 08:57	2°♊13'47			13698 Jun 21 11:17	0°♋	
greatest brilliancy	13695 Dec 18 22:46	3°♊54'27	-4.8m		13698 Jul 15 13:49	0°♌	
	13696 Jan 24 18:32	0°♋		asc. node	13698 Jul 16 13:22	1°♌13'05	
morning max el	13696 Jan 27 07:46	2°♋26'19	45°43'23		13698 Aug 08 20:06	0°♍	
asc. node	13696 Jan 30 03:37	5°♋11'47			13698 Sep 02 09:36	0°♎	
	13696 Feb 22 19:41	0°♌			13698 Sep 27 12:29	0°♏	
	13696 Mar 20 06:54	0°♍			13698 Oct 23 18:16	0°♐	
	13696 Apr 14 16:26	0°♎		desc. node	13698 Nov 05 10:29	13°♐40'44	
	13696 May 09 11:55	0°♏		evening max el	13698 Nov 17 21:37	26°♐19'00	46°06'22
desc. node	13696 May 21 01:42	14°♏10'00			13698 Nov 21 17:47	0°♑	
	13696 Jun 02 22:12	0°♐		greatest brilliancy	13698 Dec 27 05:49	25°♑08'51	-4.8m
	13696 Jun 27 02:08	0°♑		retrograde	13699 Jan 06 03:22	26°♑56'16	
	13696 Jul 21 02:14	0°♒		evening set	13699 Jan 23 03:39	21°♑27'18	
morning set	13696 Jul 28 01:14	8°♒42'55		inferior conj	13699 Jan 27 14:40	18°♑42'51	-6°31'31
	13696 Aug 14 00:49	0°♒		minimum elong	13699 Jan 28 00:57	18°♑26'42	6°28'39
				min. Earth dist.	13699 Jan 27 23:39	18°♑28'44	0.28777 AU
superior conj	13696 Sep 05 16:47	28°♒23'40	-0°12'06	morning rise	13699 Feb 01 22:05	15°♑28'21	
minimum elong	13696 Sep 05 19:49	28°♒33'11	0°12'06	direct	13699 Feb 17 22:52	10°♑29'44	
behind sun begin	13696 Sep 05 03:02	27°♒40'38		asc. node	13699 Feb 26 12:55	11°♑51'34	
behind sun end	13696 Sep 06 12:36	29°♒25'43		greatest brilliancy	13699 Feb 28 18:54	12°♑37'43	-4.8m
	13696 Sep 06 23:33	0°♓			13699 Mar 26 22:41	0°♒	
max. Earth dist.	13696 Sep 07 09:25	0°♓30'52	1.71665 AU	morning max el	13699 Apr 08 06:40	11°♒27'53	46°00'26
asc. node	13696 Sep 10 15:57	4°♓36'34			13699 Apr 26 04:27	0°♓	
	13696 Sep 30 23:30	0°♔			13699 May 22 21:07	0°♕	
evening rise	13696 Oct 14 13:06	16°♔54'50			13699 Jun 17 06:17	0°♖	
	13696 Oct 25 01:38	0°♕		desc. node	13699 Jun 18 13:59	1°♖35'16	
	13696 Nov 18 07:30	0°♖			13699 Jul 11 23:15	0°♗	
	13696 Dec 12 19:17	0°♗			13699 Aug 05 07:22	0°♘	
desc. node	13696 Dec 31 07:14	22°♗23'36			13699 Aug 29 11:12	0°♙	
	13697 Jan 06 15:15	0°♘			13699 Sep 22 13:34	0°♚	
	13697 Jan 31 21:36	0°♙		asc. node	13699 Oct 09 06:34	20°♚48'15	
	13697 Feb 26 18:28	0°♕		morning set	13699 Oct 10 07:30	22°♚05'49	
	13697 Mar 25 18:28	0°♖			13699 Oct 16 15:50	0°♔	
evening max el	13697 Apr 12 03:58	17°♖57'35	46°17'43		13699 Nov 09 18:37	0°♕	
asc. node	13697 Apr 23 05:22	28°♖22'19					
	13697 Apr 25 01:39	0°♗		superior conj	13699 Nov 17 11:59	9°♕35'55	1°17'09
greatest brilliancy	13697 May 22 08:41	17°♗51'16	-4.8m	minimum elong	13699 Nov 17 03:49	9°♕10'34	1°17'54
retrograde	13697 May 31 20:35	19°♗32'22		max. Earth dist.	13699 Nov 19 13:02	12°♕08'11	1.72563 AU
evening set	13697 Jun 19 01:54	13°♗14'52			13699 Dec 03 22:40	0°♘	
inferior conj	13697 Jun 21 14:06	11°♗42'08	9°09'57	evening rise	13699 Dec 24 14:37	25°♘33'15	
minimum elong	13697 Jun 21 15:53	11°♗39'22	9°08'52		13699 Dec 28 05:09	0°♙	
min. Earth dist.	13697 Jun 21 23:53	11°♗26'57	0.27472 AU		13700 Jan 21 15:11	0°♚	
morning rise	13697 Jun 24 05:50	10°♗03'52		desc. node	13700 Jan 28 20:26	8°♚49'42	
direct	13697 Jul 12 11:04	3°♗45'06			13700 Feb 15 05:07	0°♓	
greatest brilliancy	13697 Jul 22 10:56	5°♗37'53	-4.9m		13700 Mar 11 22:43	0°♕	
desc. node	13697 Aug 13 08:41	19°♗21'06			13700 Apr 05 20:37	0°♖	
	13697 Aug 25 06:42	0°♘			13700 May 01 02:22	0°♗	
morning max el	13697 Aug 31 22:00	6°♘29'59	46°54'05	asc. node	13700 May 21 15:16	23°♗49'49	
	13697 Sep 23 01:57	0°♙			13700 May 27 01:51	0°♘	
	13697 Oct 19 11:01	0°♚			13700 Jun 23 22:46	0°♙	
	13697 Nov 13 22:35	0°♔		evening max el	13700 Jun 25 03:49	1°♙12'54	46°43'33
asc. node	13697 Dec 04 07:43	24°♔24'39			13700 Jul 31 04:14	0°♕	
	13697 Dec 08 22:57	0°♕		greatest brilliancy	13700 Aug 04 04:18	1°♕42'37	-4.9m
	13698 Jan 02 16:10	0°♖		retrograde	13700 Aug 14 10:13	3°♕41'15	
	13698 Jan 27 04:43	0°♗			13700 Aug 28 01:20	30°♕♌	
	13698 Feb 20 14:27	0°♘		evening set	13700 Aug 29 04:19	29°♕24'39	
morning set	13698 Feb 28 22:26	10°♘16'01		inferior conj	13700 Sep 04 04:02	25°♕54'36	1°42'22
	13698 Mar 16 22:21	0°♙		minimum elong	13700 Sep 04 08:00	25°♕48'34	1°40'54
desc. node	13698 Mar 25 23:28	11°♙10'45		min. Earth dist.	13700 Sep 04 03:34	25°♕55'19	0.26988 AU
max. Earth dist.	13698 Apr 05 14:06	24°♙18'32	1.72660 AU	morning rise	13700 Sep 10 11:49	22°♕13'47	
				desc. node	13700 Sep 10 17:46	22°♕05'58	
superior conj	13698 Apr 08 04:55	27°♙33'03	-0°31'23	direct	13700 Sep 24 21:02	18°♕09'48	
minimum elong	13698 Apr 07 21:47	27°♙10'56	0°31'26	greatest brilliancy	13700 Oct 04 20:22	19°♕59'59	-4.8m
	13698 Apr 10 04:22	0°♕			13700 Oct 22 09:47	0°♖	
	13698 May 04 08:11	0°♖		morning max el	13700 Nov 13 12:03	19°♖18'46	46°15'26
evening rise	13698 May 17 00:54	15°♖48'27			13700 Nov 24 03:09	0°♗	
	13698 May 28 10:04	0°♗			13700 Dec 21 18:24	0°♘	

asc. node	13701 Jan 01 19:19	12°♊33'44			13703 Jul 28 07:49	0°♊	
	13701 Jan 16 19:48	0°♊			13703 Aug 24 00:06	0°♊	
	13701 Feb 11 02:24	0°♊	evening max el		13703 Sep 06 09:19	13°♊56'42	46°36'21
	13701 Mar 07 22:14	0°♊			13703 Sep 23 18:07	0°♊	
	13701 Apr 01 11:24	0°♊	desc. node		13703 Oct 09 02:56	10°♊52'43	
desc. node	13701 Apr 23 13:55	27°♊13'49	greatest brilliancy		13703 Oct 15 13:28	13°♊55'40	-4.8m
	13701 Apr 25 19:40	0°♊	retrograde		13703 Oct 26 12:34	16°♊07'50	
morning set	13701 May 12 16:21	20°♊54'33	evening set		13703 Nov 12 11:12	10°♊37'26	
	13701 May 19 23:42	0°♊	min. Earth dist.		13703 Nov 15 23:26	8°♊29'22	0.28282 AU
	13701 Jun 13 00:15	0°♊	inferior conj		13703 Nov 16 19:15	7°♊58'35	-7°54'25
max. Earth dist.	13701 Jun 19 11:38	8°♊06'25	1.71612 AU		13703 Nov 16 10:29	8°♊12'11	7°52'15
			minimum elong		13703 Nov 20 10:08	5°♊45'57	
			morning rise		13703 Dec 07 23:34	29°♊59'45	
superior conj	13701 Jun 21 13:54	10°♊43'55	-1°27'12				
minimum elong	13701 Jun 21 15:41	10°♊49'28	1°28'15		13703 Dec 07 12:25	30°♊	
	13701 Jul 06 22:43	0°♊			13703 Dec 08 10:44	0°♊	
	13701 Jul 30 20:52	0°♊			13703 Dec 17 12:17	1°♊39'17	-4.8m
evening rise	13701 Jul 31 18:56	1°♊09'08			13704 Jan 25 17:19	0°♊	
asc. node	13701 Aug 14 03:16	17°♊51'38	morning max el		13704 Jan 25 21:28	0°♊09'59	45°43'39
	13701 Aug 23 20:23	0°♊	asc. node		13704 Jan 30 05:39	4°♊25'15	
	13701 Sep 16 22:46	0°♊			13704 Feb 23 11:15	0°♊	
	13701 Oct 11 06:08	0°♊			13704 Mar 20 20:02	0°♊	
	13701 Nov 04 22:03	0°♊			13704 Apr 15 04:26	0°♊	
	13701 Nov 30 04:18	0°♊			13704 May 09 23:19	0°♊	
desc. node	13701 Dec 03 21:03	4°♊18'32	desc. node		13704 May 21 03:27	13°♊40'57	
	13701 Dec 26 10:40	0°♊			13704 Jun 03 09:14	0°♊	
	13702 Jan 23 17:11	0°♊			13704 Jun 27 12:58	0°♊	
evening max el	13702 Jan 29 00:21	5°♊11'45	45°55'54		13704 Jul 21 12:57	0°♊	
	13702 Feb 28 23:44	0°♊	morning set		13704 Jul 26 13:43	6°♊18'14	
greatest brilliancy	13702 Mar 09 00:19	3°♊42'02	-4.8m		13704 Aug 14 11:27	0°♊	
retrograde	13702 Mar 19 01:42	5°♊33'05					
asc. node	13702 Mar 26 22:07	4°♊18'17			superior conj	13704 Sep 04 05:50	26°♊01'10 -0°15'48
evening set	13702 Apr 02 20:59	1°♊14'23			minimum elong	13704 Sep 04 09:47	26°♊13'32 0°15'47
	13702 Apr 05 01:10	30°♊			behind sun begin	13704 Sep 04 04:10	25°♊55'57
inferior conj	13702 Apr 09 02:49	27°♊30'12	3°14'41		behind sun end	13704 Sep 04 15:24	26°♊31'08
minimum elong	13702 Apr 08 19:50	27°♊41'06	3°12'14		max. Earth dist.	13704 Sep 05 20:42	28°♊02'48 1.71641 AU
min. Earth dist.	13702 Apr 09 04:04	27°♊28'14	0.28050 AU			13704 Sep 07 10:09	0°♊
morning rise	13702 Apr 14 18:30	24°♊05'25			asc. node	13704 Sep 10 17:52	4°♊09'27
direct	13702 Apr 30 06:17	19°♊22'55				13704 Oct 01 10:06	0°♊
greatest brilliancy	13702 May 10 14:57	21°♊23'36	-4.8m		evening rise	13704 Oct 13 04:04	14°♊38'52
	13702 May 25 21:05	0°♊				13704 Oct 25 12:18	0°♊
morning max el	13702 Jun 19 10:58	21°♊41'22	46°43'33			13704 Nov 18 18:20	0°♊
	13702 Jun 27 13:32	0°♊				13704 Dec 13 06:25	0°♊
desc. node	13702 Jul 17 01:00	21°♊17'41			desc. node	13704 Dec 31 09:02	21°♊54'32
	13702 Jul 24 16:19	0°♊				13705 Jan 07 02:53	0°♊
	13702 Aug 19 05:00	0°♊				13705 Feb 01 10:08	0°♊
	13702 Sep 13 01:47	0°♊				13705 Feb 27 08:39	0°♊
	13702 Oct 07 15:32	0°♊				13705 Mar 26 12:19	0°♊
	13702 Nov 01 01:52	0°♊			evening max el	13705 Apr 10 16:41	15°♊35'06 46°16'38
asc. node	13702 Nov 06 20:38	7°♊07'07			asc. node	13705 Apr 23 07:19	27°♊22'05
	13702 Nov 25 10:06	0°♊				13705 Apr 26 08:52	0°♊
	13702 Dec 19 17:00	0°♊			greatest brilliancy	13705 May 20 22:20	15°♊29'51 -4.8m
morning set	13702 Dec 20 19:24	1°♊21'31			retrograde	13705 May 30 09:22	17°♊10'41
	13703 Jan 12 23:40	0°♊			evening set	13705 Jun 17 15:12	10°♊53'12
					inferior conj	13705 Jun 20 03:42	9°♊20'05 9°11'10
superior conj	13703 Jan 26 14:19	16°♊48'07	1°05'41		minimum elong	13705 Jun 20 04:30	9°♊18'50 9°10'06
minimum elong	13703 Jan 27 00:04	17°♊18'13	1°06'10		min. Earth dist.	13705 Jun 20 13:18	9°♊05'10 0.27498 AU
max. Earth dist.	13703 Jan 27 14:36	18°♊03'02	1.73147 AU		morning rise	13705 Jun 22 17:45	7°♊44'19
	13703 Feb 06 07:03	0°♊			direct	13705 Jul 11 00:13	1°♊22'18
desc. node	13703 Feb 26 10:44	24°♊50'00			greatest brilliancy	13705 Jul 21 01:18	3°♊15'55 -4.9m
	13703 Mar 02 15:24	0°♊			desc. node	13705 Aug 13 10:41	18°♊14'22
evening rise	13703 Mar 05 08:11	3°♊19'28				13705 Aug 26 07:32	0°♊
	13703 Mar 27 00:05	0°♊			morning max el	13705 Aug 30 11:08	4°♊06'13 46°54'53
	13703 Apr 20 08:32	0°♊				13705 Sep 23 18:39	0°♊
	13703 May 14 17:20	0°♊				13705 Oct 20 00:54	0°♊
	13703 Jun 08 04:47	0°♊				13705 Nov 14 11:03	0°♊
asc. node	13703 Jun 19 02:34	13°♊16'22			asc. node	13705 Dec 04 09:31	23°♊54'32
	13703 Jul 02 23:08	0°♊				13705 Dec 09 10:37	0°♊

	13706 Jan 03 03:21	0° $\text{Z}$		retrograde	13708 Aug 11 23:55	1° $\text{L}$ 16'22	
	13706 Jan 27 15:36	0° $\approx$			13708 Aug 19 21:03	30° $\text{R}$ $\text{M}$	
	13706 Feb 21 01:09	0° $\text{H}$		evening set	13708 Aug 26 19:03	26° $\text{M}$ 57'22	
morning set	13706 Feb 27 14:41	8° $\text{H}$ 05'14		inferior conj	13708 Sep 01 16:47	23° $\text{M}$ 29'53	2°06'19
	13706 Mar 17 08:58	0° $\text{Y}$		minimum elong	13708 Sep 01 21:38	23° $\text{M}$ 22'30	2°04'32
desc. node	13706 Mar 26 01:19	10° $\text{Y}$ 43'36		min. Earth dist.	13708 Sep 01 17:14	23° $\text{M}$ 29'12	0.26977 AU
max. Earth dist.	13706 Apr 04 07:37	22° $\text{Y}$ 11'14	1.72696 AU	morning rise	13708 Sep 08 00:24	19° $\text{M}$ 49'36	
				desc. node	13708 Sep 09 19:50	18° $\text{M}$ 54'44	
superior conj	13706 Apr 06 19:19	25° $\text{Y}$ 16'03	-0°28'02	direct	13708 Sep 22 10:15	15° $\text{M}$ 45'04	
minimum elong	13706 Apr 06 12:52	24° $\text{Y}$ 56'04	0°28'03	greatest brilliancy	13708 Oct 02 09:09	17° $\text{M}$ 35'31	-4.8m
	13706 Apr 10 15:00	0° $\text{O}$			13708 Oct 23 01:26	0° $\text{L}$	
	13706 May 04 18:55	0° $\text{II}$		morning max el	13708 Nov 11 02:51	17° $\text{L}$ 01'21	46°17'05
evening rise	13706 May 15 14:18	13° $\text{II}$ 27'06			13708 Nov 23 22:34	0° $\text{M}$	
	13706 May 28 20:58	0° $\text{O}$			13708 Dec 21 09:17	0° $\text{J}$	
	13706 Jun 21 22:22	0° $\text{O}$		asc. node	13708 Dec 31 21:21	11° $\text{J}$ 59'36	
asc. node	13706 Jul 16 01:08	0° $\text{M}$			13709 Jan 16 08:45	0° $\text{Z}$	
	13706 Jul 16 15:17	0° $\text{M}$ 43'51			13709 Feb 10 14:21	0° $\approx$	
	13706 Aug 09 07:49	0° $\text{L}$			13709 Mar 07 09:40	0° $\text{H}$	
	13706 Sep 02 21:56	0° $\text{M}$			13709 Mar 31 22:34	0° $\text{Y}$	
	13706 Sep 28 01:59	0° $\text{J}$		desc. node	13709 Apr 22 15:42	26° $\text{Y}$ 45'11	
	13706 Oct 24 10:21	0° $\text{Z}$			13709 Apr 25 06:42	0° $\text{B}$	
desc. node	13706 Nov 05 12:20	12° $\text{Z}$ 57'34		morning set	13709 May 10 04:56	18° $\text{B}$ 30'28	
evening max el	13706 Nov 16 11:57	24° $\text{Z}$ 03'39	46°07'13		13709 May 19 10:39	0° $\text{II}$	
	13706 Nov 22 17:59	0° $\approx$			13709 Jun 12 11:11	0° $\text{O}$	
greatest brilliancy	13706 Dec 25 20:39	22° $\approx$ 56'50	-4.8m	max. Earth dist.	13709 Jun 16 21:48	5° $\text{O}$ 33'42	1.71634 AU
retrograde	13707 Jan 04 19:14	24° $\approx$ 45'24					
evening set	13707 Jan 21 22:19	19° $\approx$ 11'31		superior conj	13709 Jun 19 01:53	8° $\text{O}$ 16'49	-1°27'24
inferior conj	13707 Jan 26 06:32	16° $\approx$ 31'27	-6°45'09	minimum elong	13709 Jun 19 02:36	8° $\text{O}$ 19'03	1°28'27
minimum elong	13707 Jan 26 16:44	16° $\approx$ 15'27	6°42'22		13709 Jul 06 09:39	0° $\text{O}$	
min. Earth dist.	13707 Jan 26 15:06	16° $\approx$ 17'59	0.28798 AU	evening rise	13709 Jul 29 06:25	28° $\text{O}$ 40'13	
morning rise	13707 Jan 31 10:59	13° $\approx$ 21'28			13709 Jul 30 07:53	0° $\text{M}$	
direct	13707 Feb 16 14:33	8° $\approx$ 18'06		asc. node	13709 Aug 13 05:11	17° $\text{M}$ 22'58	
asc. node	13707 Feb 26 15:00	10° $\approx$ 08'23			13709 Aug 23 07:31	0° $\text{L}$	
greatest brilliancy	13707 Feb 27 10:52	10° $\approx$ 26'28	-4.8m		13709 Sep 16 10:06	0° $\text{M}$	
	13707 Mar 28 02:23	0° $\text{H}$			13709 Oct 10 17:46	0° $\text{J}$	
morning max el	13707 Apr 06 22:36	9° $\text{H}$ 15'30	45°59'14		13709 Nov 04 10:13	0° $\text{Z}$	
	13707 Apr 26 21:24	0° $\text{Y}$			13709 Nov 29 17:29	0° $\approx$	
	13707 May 23 11:03	0° $\text{B}$		desc. node	13709 Dec 02 22:58	3° $\approx$ 45'16	
	13707 Jun 17 18:53	0° $\text{II}$			13709 Dec 26 02:00	0° $\text{H}$	
desc. node	13707 Jun 18 15:54	1° $\text{II}$ 03'15			13710 Jan 23 14:18	0° $\text{Y}$	
	13707 Jul 12 11:09	0° $\text{O}$		evening max el	13710 Jan 26 16:05	2° $\text{Y}$ 59'32	45°55'37
	13707 Aug 05 18:50	0° $\text{O}$			13710 Mar 03 01:04	0° $\text{B}$	
	13707 Aug 29 22:23	0° $\text{M}$		greatest brilliancy	13710 Mar 06 15:07	1° $\text{B}$ 26'33	-4.8m
	13707 Sep 23 00:32	0° $\text{L}$		retrograde	13710 Mar 16 16:06	3° $\text{B}$ 16'56	
morning set	13707 Oct 08 21:50	19° $\text{L}$ 47'14		asc. node	13710 Mar 26 00:03	1° $\text{B}$ 32'00	
asc. node	13707 Oct 09 08:23	20° $\text{L}$ 20'04			13710 Mar 29 12:39	30° $\text{R}$ $\text{Y}$	
	13707 Oct 17 02:39	0° $\text{M}$		evening set	13710 Mar 31 11:02	28° $\text{Y}$ 59'38	
	13707 Nov 10 05:19	0° $\text{J}$		inferior conj	13710 Apr 06 17:45	25° $\text{Y}$ 13'52	2°53'48
				minimum elong	13710 Apr 06 11:27	25° $\text{Y}$ 23'44	2°51'34
superior conj	13707 Nov 16 04:04	7° $\text{J}$ 23'37	1°15'34	min. Earth dist.	13710 Apr 06 19:24	25° $\text{Y}$ 11'18	0.28070 AU
minimum elong	13707 Nov 15 19:25	6° $\text{J}$ 56'45	1°16'17	morning rise	13710 Apr 12 11:39	21° $\text{Y}$ 45'40	
max. Earth dist.	13707 Nov 18 05:32	9° $\text{J}$ 57'14	1.72534 AU	direct	13710 Apr 27 21:48	17° $\text{Y}$ 06'32	
	13707 Dec 04 09:20	0° $\text{Z}$		greatest brilliancy	13710 May 08 06:33	19° $\text{Y}$ 07'07	-4.8m
evening rise	13707 Dec 23 07:05	23° $\text{Z}$ 22'56			13710 May 26 13:21	0° $\text{B}$	
	13707 Dec 28 15:54	0° $\approx$		morning max el	13710 Jun 17 01:04	19° $\text{B}$ 21'11	46°42'10
	13708 Jan 22 02:08	0° $\text{H}$			13710 Jun 27 08:55	0° $\text{II}$	
desc. node	13708 Jan 28 22:23	8° $\text{H}$ 22'02		desc. node	13710 Jul 16 03:02	20° $\text{II}$ 38'14	
	13708 Feb 15 16:23	0° $\text{Y}$			13710 Jul 24 07:26	0° $\text{O}$	
	13708 Mar 11 10:29	0° $\text{B}$			13710 Aug 18 18:20	0° $\text{O}$	
	13708 Apr 05 09:07	0° $\text{II}$			13710 Sep 12 14:10	0° $\text{M}$	
	13708 Apr 30 16:07	0° $\text{O}$			13710 Oct 07 03:19	0° $\text{L}$	
asc. node	13708 May 20 17:09	23° $\text{O}$ 11'03			13710 Oct 31 13:14	0° $\text{M}$	
	13708 May 26 18:04	0° $\text{O}$		asc. node	13710 Nov 05 22:24	6° $\text{M}$ 37'45	
evening max el	13708 Jun 22 18:00	28° $\text{O}$ 51'22	46°43'08		13710 Nov 24 21:10	0° $\text{J}$	
	13708 Jun 23 21:36	0° $\text{M}$		morning set	13710 Dec 18 12:00	29° $\text{J}$ 10'56	
greatest brilliancy	13708 Aug 01 17:51	29° $\text{M}$ 17'58	-4.9m		13710 Dec 19 03:53	0° $\text{Z}$	
	13708 Aug 03 20:03	0° $\text{L}$			13711 Jan 12 10:27	0° $\approx$	




































































































































superior conj	13711 Jan 24 07:05	14° $\approx$ 38'36	1°07'48	morning rise	13713 Jun 20 06:16	5° $\approx$ 23'12	
minimum elong	13711 Jan 24 16:41	15° $\approx$ 08'11	1°08'19		13713 Jul 01 12:34	30° $\approx$ II	
max. Earth dist.	13711 Jan 25 08:59	15° $\approx$ 58'28	1.73137 AU	direct	13713 Jul 08 13:35	28° $\approx$ II58'45	
	13711 Feb 05 17:50	0° $\approx$			13713 Jul 15 20:32	0° $\approx$	
desc. node	13711 Feb 25 12:33	24° $\approx$ 22'15		greatest brilliancy	13713 Jul 18 15:22	0° $\approx$ 53'05	-4.9m
	13711 Mar 02 02:16	0° $\approx$		desc. node	13713 Aug 12 12:43	17° $\approx$ 08'39	
evening rise	13711 Mar 03 00:03	1° $\approx$ 07'05			13713 Aug 26 07:31	0° $\approx$	
	13711 Mar 26 11:08	0° $\approx$		morning max el	13713 Aug 28 01:08	1° $\approx$ 43'49	46°55'32
	13711 Apr 19 19:51	0° $\approx$			13713 Sep 23 11:18	0° $\approx$	
	13711 May 14 05:03	0° $\approx$			13713 Oct 19 14:51	0° $\approx$	
	13711 Jun 07 17:05	0° $\approx$			13713 Nov 13 23:37	0° $\approx$	
asc. node	13711 Jun 18 04:30	12° $\approx$ 43'59		asc. node	13713 Dec 03 11:32	23° $\approx$ II24'41	
	13711 Jul 02 12:22	0° $\approx$			13713 Dec 08 22:21	0° $\approx$	
	13711 Jul 27 22:43	0° $\approx$			13714 Jan 02 14:35	0° $\approx$	
	13711 Aug 23 18:50	0° $\approx$			13714 Jan 27 02:31	0° $\approx$	
evening max el	13711 Sep 03 23:34	11° $\approx$ II36'15	46°37'07		13714 Feb 20 11:54	0° $\approx$	
	13711 Sep 24 05:02	0° $\approx$		morning set	13714 Feb 25 06:59	5° $\approx$ 54'29	
desc. node	13711 Oct 08 04:48	9° $\approx$ 22'15			13714 Mar 16 19:39	0° $\approx$	
greatest brilliancy	13711 Oct 13 04:52	11° $\approx$ 23'55	-4.8m	desc. node	13714 Mar 25 03:04	10° $\approx$ Y15'57	
retrograde	13711 Oct 24 03:02	13° $\approx$ 25'36		max. Earth dist.	13714 Apr 02 02:30	20° $\approx$ Y07'58	1.72728 AU
evening set	13711 Nov 09 22:19	8° $\approx$ 26'22					
min. Earth dist.	13711 Nov 13 14:01	6° $\approx$ 21'19	0.28229 AU	superior conj	13714 Apr 04 09:51	22° $\approx$ Y59'19	-0°24'37
inferior conj	13711 Nov 14 09:58	5° $\approx$ 24'19	-7°44'19	minimum elong	13714 Apr 04 04:08	22° $\approx$ Y41'35	0°24'39
minimum elong	13711 Nov 14 00:45	5° $\approx$ 56'39	7°42'00		13714 Apr 10 01:42	0° $\approx$	
morning rise	13711 Nov 18 03:30	3° $\approx$ 25'40			13714 May 04 05:42	0° $\approx$	
	13711 Nov 24 19:59	30° $\approx$ II		evening rise	13714 May 13 04:00	11° $\approx$ II06'43	
direct	13711 Dec 05 13:38	27° $\approx$ II44'19			13714 May 28 07:51	0° $\approx$	
greatest brilliancy	13711 Dec 15 02:22	29° $\approx$ II23'28	-4.8m		13714 Jun 21 09:26	0° $\approx$	
	13711 Dec 16 19:04	0° $\approx$		asc. node	13714 Jul 15 17:12	0° $\approx$ 14'38	
morning max el	13712 Jan 23 10:41	27° $\approx$ 25'21	45°44'05		13714 Jul 15 12:29	0° $\approx$	
	13712 Jan 25 15:35	0° $\approx$			13714 Aug 08 19:35	0° $\approx$	
asc. node	13712 Jan 29 07:38	3° $\approx$ 38'23			13714 Sep 02 10:24	0° $\approx$	
	13712 Feb 23 02:54	0° $\approx$			13714 Sep 27 15:42	0° $\approx$	
	13712 Mar 20 09:20	0° $\approx$			13714 Oct 24 02:48	0° $\approx$	
	13712 Apr 14 16:38	0° $\approx$		desc. node	13714 Nov 04 14:21	12° $\approx$ 314'04	
	13712 May 09 10:56	0° $\approx$		evening max el	13714 Nov 14 03:05	21° $\approx$ 350'09	46°08'18
desc. node	13712 May 20 05:20	13° $\approx$ 8'11'30			13714 Nov 22 19:28	0° $\approx$	
	13712 Jun 02 20:33	0° $\approx$		greatest brilliancy	13714 Dec 23 11:00	20° $\approx$ 344'28	-4.8m
	13712 Jun 27 00:06	0° $\approx$		retrograde	13715 Jan 02 11:26	22° $\approx$ 334'32	
	13712 Jul 20 23:59	0° $\approx$		evening set	13715 Jan 19 16:59	16° $\approx$ 355'48	
morning set	13712 Jul 24 01:40	3° $\approx$ 50'47		inferior conj	13715 Jan 23 22:21	14° $\approx$ 320'03	-6°58'09
	13712 Aug 13 22:25	0° $\approx$		minimum elong	13715 Jan 24 08:26	14° $\approx$ 304'15	6°55'26
				min. Earth dist.	13715 Jan 24 06:05	14° $\approx$ 307'56	0.28816 AU
superior conj	13712 Sep 01 18:24	23° $\approx$ 36'10	-0°19'31	morning rise	13715 Jan 28 23:46	11° $\approx$ 314'48	
minimum elong	13712 Sep 01 23:16	23° $\approx$ 351'22	0°19'30	direct	13715 Feb 14 06:43	6° $\approx$ 306'40	
max. Earth dist.	13712 Sep 03 04:57	25° $\approx$ 324'19	1.71615 AU	greatest brilliancy	13715 Feb 25 02:11	8° $\approx$ 314'44	-4.8m
	13712 Sep 06 21:03	0° $\approx$		asc. node	13715 Feb 25 16:57	8° $\approx$ 328'55	
asc. node	13712 Sep 09 19:37	3° $\approx$ 40'48			13715 Mar 28 04:23	0° $\approx$	
	13712 Sep 30 20:58	0° $\approx$		morning max el	13715 Apr 04 15:01	7° $\approx$ 304'42	45°58'00
evening rise	13712 Oct 10 18:40	12° $\approx$ II20'54			13715 Apr 26 13:55	0° $\approx$	
	13712 Oct 24 23:13	0° $\approx$			13715 May 23 00:43	0° $\approx$	
	13712 Nov 18 05:25	0° $\approx$			13715 Jun 17 07:17	0° $\approx$	
	13712 Dec 12 17:49	0° $\approx$		desc. node	13715 Jun 17 17:54	0° $\approx$ II32'00	
desc. node	13712 Dec 30 11:01	21° $\approx$ 325'14			13715 Jul 11 22:50	0° $\approx$	
	13713 Jan 06 14:48	0° $\approx$			13715 Aug 05 06:05	0° $\approx$	
	13713 Jan 31 22:58	0° $\approx$			13715 Aug 29 09:21	0° $\approx$	
	13713 Feb 26 23:13	0° $\approx$			13715 Sep 22 11:20	0° $\approx$	
	13713 Mar 26 06:49	0° $\approx$		morning set	13715 Oct 06 12:03	17° $\approx$ 328'41	
evening max el	13713 Apr 08 05:23	13° $\approx$ II12'18	46°15'37	asc. node	13715 Oct 08 10:11	19° $\approx$ 352'20	
asc. node	13713 Apr 22 09:13	26° $\approx$ II19'49			13715 Oct 16 13:19	0° $\approx$	
	13713 Apr 26 19:03	0° $\approx$			13715 Nov 09 15:53	0° $\approx$	
greatest brilliancy	13713 May 18 11:11	13° $\approx$ 307'09	-4.8m				
retrograde	13713 May 27 22:31	14° $\approx$ 348'39		superior conj	13715 Nov 13 19:49	5° $\approx$ 310'36	1°13'50
evening set	13713 Jun 15 03:47	8° $\approx$ 331'44		minimum elong	13715 Nov 13 10:45	4° $\approx$ 342'24	1°14'31
inferior conj	13713 Jun 17 17:12	6° $\approx$ 357'21	9°11'17	max. Earth dist.	13715 Nov 15 22:41	7° $\approx$ 348'40	1.72504 AU
minimum elong	13713 Jun 17 17:03	6° $\approx$ 357'35	9°10'14		13715 Dec 03 19:52	0° $\approx$	
min. Earth dist.	13713 Jun 18 02:20	6° $\approx$ 343'12	0.27528 AU	evening rise	13715 Dec 20 23:16	21° $\approx$ 312'12	

	13715 Dec 28 02:28	0°≈		desc. node	13718 Jul 15 04:54	19°Ⅱ59'59	
	13716 Jan 21 12:53	0°✕			13718 Jul 23 21:52	0°☾	
desc. node	13716 Jan 28 00:11	7°✕54'31			13718 Aug 18 07:07	0°Ω	
	13716 Feb 15 03:27	0°Υ			13718 Sep 12 02:02	0°☿	
	13716 Mar 10 22:03	0°♄			13718 Oct 06 14:34	0°♁	
	13716 Apr 04 21:28	0°Ⅱ			13718 Oct 31 00:04	0°♌	
	13716 Apr 30 05:46	0°☾		asc. node	13718 Nov 05 00:22	6°♌10'37	
asc. node	13716 May 19 19:13	22°☾33'12			13718 Nov 24 07:42	0°♊	
	13716 May 26 10:17	0°Ω		morning set	13718 Dec 16 04:42	27°♊02'07	
evening max el	13716 Jun 20 08:40	26°Ω32'05	46°42'43		13718 Dec 18 14:15	0°♄	
	13716 Jun 23 21:01	0°☿			13719 Jan 11 20:46	0°≈	
greatest brilliancy	13716 Jul 30 07:47	26°☿55'19	-4.9m				
retrograde	13716 Aug 09 13:32	28°☿52'55		superior conj	13719 Jan 21 23:58	12°≈30'47	1°09'48
evening set	13716 Aug 24 10:10	24°☿31'38		minimum elong	13719 Jan 22 09:20	12°≈59'42	1°10'22
inferior conj	13716 Aug 30 05:41	21°☿06'47	2°29'51	max. Earth dist.	13719 Jan 23 01:24	13°≈49'16	1.73131 AU
minimum elong	13716 Aug 30 11:23	20°☿58'07	2°27'46		13719 Feb 05 04:11	0°✕	
min. Earth dist.	13716 Aug 30 06:59	21°☿04'48	0.26967 AU	desc. node	13719 Feb 24 14:18	23°✕55'35	
morning rise	13716 Sep 05 12:50	17°☿27'10		evening rise	13719 Feb 28 15:54	28°✕56'00	
desc. node	13716 Sep 08 21:41	15°☿49'41			13719 Mar 01 12:42	0°Υ	
direct	13716 Sep 19 23:47	13°☿22'10			13719 Mar 25 21:44	0°♄	
greatest brilliancy	13716 Sep 29 21:55	15°☿12'19	-4.8m		13719 Apr 19 06:44	0°Ⅱ	
	13716 Oct 23 12:32	0°♁			13719 May 13 16:21	0°☾	
morning max el	13716 Nov 08 16:59	14°♁43'15	46°18'31		13719 Jun 07 05:01	0°Ω	
	13716 Nov 23 17:04	0°♌		asc. node	13719 Jun 17 06:26	12°Ω12'44	
	13716 Dec 20 23:39	0°♊			13719 Jul 02 01:15	0°☿	
asc. node	13716 Dec 30 23:17	11°♊26'13			13719 Jul 27 13:21	0°♁	
	13717 Jan 15 21:18	0°♄			13719 Aug 23 13:33	0°♌	
	13717 Feb 10 01:56	0°≈		evening max el	13719 Sep 01 13:12	9°♌15'32	46°37'58
	13717 Mar 06 20:43	0°✕			13719 Sep 24 18:50	0°♊	
	13717 Mar 31 09:20	0°Υ		desc. node	13719 Oct 07 06:51	7°♊50'28	
desc. node	13717 Apr 21 17:29	26°Υ17'50		greatest brilliancy	13719 Oct 10 20:17	9°♊23'43	-4.8m
	13717 Apr 24 17:20	0°♄		retrograde	13719 Oct 21 17:48	11°♊35'25	
morning set	13717 May 07 17:33	16°♄07'46		evening set	13719 Nov 07 09:33	6°♊17'00	
	13717 May 18 21:14	0°Ⅱ		min. Earth dist.	13719 Nov 11 04:47	3°♊59'06	0.28174 AU
	13717 Jun 11 21:45	0°☾		inferior conj	13719 Nov 12 00:49	3°♊28'00	-7°33'30
max. Earth dist.	13717 Jun 14 04:57	2°☾52'44	1.71658 AU	minimum elong	13719 Nov 11 15:10	3°♊42'59	7°31'03
				morning rise	13719 Nov 15 21:06	1°♊07'21	
superior conj	13717 Jun 16 14:03	5°☾51'29	-1°27'26		13719 Nov 17 20:20	30°♌	
minimum elong	13717 Jun 16 13:43	5°☾50'24	1°28'29	direct	13719 Dec 03 03:27	25°♌30'42	
	13717 Jul 05 20:15	0°Ω		greatest brilliancy	13719 Dec 12 16:55	27°♌10'06	-4.8m
evening rise	13717 Jul 26 18:01	26°Ω12'51			13719 Dec 19 08:03	0°♊	
	13717 Jul 29 18:32	0°☿		morning max el	13720 Jan 21 00:17	25°♊35'18	45°44'31
asc. node	13717 Aug 12 06:56	16°☿55'06			13720 Jan 25 12:20	0°♄	
	13717 Aug 22 18:15	0°♁		asc. node	13720 Jan 28 09:34	2°♄53'39	
	13717 Sep 15 20:58	0°♌			13720 Feb 22 17:48	0°≈	
	13717 Oct 10 04:56	0°♊			13720 Mar 19 22:07	0°✕	
	13717 Nov 03 21:58	0°♄			13720 Apr 14 04:24	0°Υ	
	13717 Nov 29 06:20	0°≈			13720 May 08 22:08	0°♄	
desc. node	13717 Dec 02 00:56	3°≈13'13		desc. node	13720 May 19 07:19	12°♄43'37	
	13717 Dec 25 17:08	0°✕			13720 Jun 02 07:26	0°Ⅱ	
	13718 Jan 23 11:43	0°Υ			13720 Jun 26 10:50	0°☾	
evening max el	13718 Jan 24 07:03	0°Υ46'42	45°55'24		13720 Jul 20 10:38	0°Ω	
greatest brilliancy	13718 Mar 04 06:35	29°Υ13'19	-4.8m	morning set	13720 Jul 21 13:31	1°Ω24'12	
	13718 Mar 06 18:42	0°♄			13720 Aug 13 09:00	0°☿	
retrograde	13718 Mar 14 06:20	1°♄02'38					
	13718 Mar 21 11:41	30°♌		superior conj	13720 Aug 30 06:55	21°☿12'00	-0°23'12
asc. node	13718 Mar 25 02:00	28°Υ42'42		minimum elong	13720 Aug 30 12:39	21°☿29'58	0°23'11
evening set	13718 Mar 29 01:25	26°Υ46'18		max. Earth dist.	13720 Aug 31 12:30	22°☿44'38	1.71595 AU
inferior conj	13718 Apr 04 08:51	22°Υ59'27	2°32'46		13720 Sep 06 07:35	0°♁	
minimum elong	13718 Apr 04 03:16	23°Υ08'13	2°30'46	asc. node	13720 Sep 08 21:26	3°♁13'31	
min. Earth dist.	13718 Apr 04 11:10	22°Υ55'49	0.28090 AU		13720 Sep 30 07:30	0°♌	
morning rise	13718 Apr 10 04:48	19°Υ27'58		evening rise	13720 Oct 08 09:17	10°♌04'06	
direct	13718 Apr 25 12:52	14°Υ51'55			13720 Oct 24 09:48	0°♊	
greatest brilliancy	13718 May 05 22:48	16°Υ53'01	-4.8m		13720 Nov 17 16:08	0°♄	
	13718 May 27 00:46	0°♄			13720 Dec 12 04:49	0°≈	
morning max el	13718 Jun 14 14:26	17°♄00'34	46°40'45	desc. node	13720 Dec 29 12:53	20°≈56'46	
	13718 Jun 27 03:15	0°Ⅱ			13721 Jan 06 02:20	0°✕	



	13721 Jan 31 11:29	0°Υ			13723 Aug 28 20:23	0°ϯ		
	13721 Feb 26 13:36	0°Ϡ			13723 Sep 21 22:11	0°♁		
	13721 Mar 26 01:29	0°Π		morning set	13723 Oct 04 01:58	15°♁09'01		
evening max el	13721 Apr 05 18:58	10°Π52'46	46°14'36	asc. node	13723 Oct 07 12:05	19°♁24'48		
asc. node	13721 Apr 21 11:19	25°Π17'08			13723 Oct 16 00:01	0°♍		
	13721 Apr 27 08:21	0°♎			13723 Nov 09 02:31	0°♊		
greatest brilliancy	13721 May 15 23:33	10°♎44'51	-4.8m					
retrograde	13721 May 25 12:15	12°♎27'33		superior conj	13723 Nov 11 11:18	2°♊56'30	1°11'59	
evening set	13721 Jun 12 15:47	6°♎12'05		minimum elong	13723 Nov 11 01:52	2°♊27'11	1°12'37	
inferior conj	13721 Jun 15 06:44	4°♎35'27	9°10'19	max. Earth dist.	13723 Nov 13 16:34	5°♊42'01	1.72473 AU	
minimum elong	13721 Jun 15 05:38	4°♎37'10	9°09'16		13723 Dec 03 06:28	0°♊		
min. Earth dist.	13721 Jun 15 15:00	4°♎22'40	0.27557 AU	evening rise	13723 Dec 18 15:20	19°♊00'45		
morning rise	13721 Jun 17 19:26	3°♎01'59			13723 Dec 27 13:09	0°♋		
	13721 Jun 23 04:43	30°κΠ			13724 Jan 20 23:44	0°κ		
direct	13721 Jul 06 03:28	26°Π36'13		desc. node	13724 Jan 27 01:59	7°κ26'41		
greatest brilliancy	13721 Jul 16 04:50	28°Π30'38	-4.9m		13724 Feb 14 14:38	0°Υ		
	13721 Jul 19 18:51	0°♎			13724 Mar 10 09:43	0°Ϡ		
desc. node	13721 Aug 11 14:39	16°♎05'17			13724 Apr 04 09:55	0°Π		
morning max el	13721 Aug 25 15:56	29°♎24'23	46°56'03		13724 Apr 29 19:37	0°♎		
	13721 Aug 26 06:06	0°♏		asc. node	13724 May 18 21:06	21°♎54'06		
	13721 Sep 23 03:21	0°ϯ			13724 May 26 02:58	0°♏		
	13721 Oct 19 04:25	0°♁		evening max el	13724 Jun 17 22:50	24°♏10'48	46°41'58	
	13721 Nov 13 11:52	0°♍			13724 Jun 23 21:56	0°ϯ		
asc. node	13721 Dec 02 13:24	22°♍55'15		greatest brilliancy	13724 Jul 27 22:10	24°ϯ31'53	-4.9m	
	13721 Dec 08 09:49	0°♊		retrograde	13724 Aug 07 02:28	26°ϯ27'47		
	13722 Jan 02 01:32	0°♊		evening set	13724 Aug 22 01:17	22°ϯ04'09		
	13722 Jan 26 13:09	0°♋		inferior conj	13724 Aug 27 18:23	18°ϯ42'12	2°53'13	
	13722 Feb 19 22:23	0°κ		minimum elong	13724 Aug 28 00:53	18°ϯ32'17	2°50'53	
morning set	13722 Feb 22 23:43	3°κ45'54		min. Earth dist.	13724 Aug 27 20:50	18°ϯ38'29	0.26958 AU	
	13722 Mar 16 06:05	0°Υ		morning rise	13724 Sep 03 00:45	15°ϯ03'20		
desc. node	13722 Mar 24 04:58	9°Υ49'30		desc. node	13724 Sep 07 23:46	12°ϯ47'07		
max. Earth dist.	13722 Mar 30 22:12	18°Υ07'59	1.72763 AU	direct	13724 Sep 17 12:43	10°ϯ57'45		
				greatest brilliancy	13724 Sep 27 10:47	12°ϯ47'45	-4.8m	
superior conj	13722 Apr 02 00:37	20°Υ44'00	-0°21'11		13724 Oct 23 21:07	0°♁		
minimum elong	13722 Apr 01 19:39	20°Υ28'39	0°21'13	morning max el	13724 Nov 06 05:57	12°♁21'15	46°20'01	
	13722 Apr 09 12:12	0°Ϡ			13724 Nov 23 11:22	0°♍		
	13722 May 03 16:19	0°Π			13724 Dec 20 14:05	0°♊		
evening rise	13722 May 10 17:46	8°Π47'02		asc. node	13724 Dec 30 01:08	10°♊52'08		
	13722 May 27 18:37	0°♎			13725 Jan 15 09:59	0°♊		
	13722 Jun 20 20:24	0°♏			13725 Feb 09 13:43	0°♋		
asc. node	13722 Jul 14 18:58	29°♏45'14			13725 Mar 06 08:00	0°κ		
	13722 Jul 14 23:43	0°ϯ			13725 Mar 30 20:20	0°Υ		
	13722 Aug 08 07:17	0°♁		desc. node	13725 Apr 20 19:27	25°Υ50'22		
	13722 Sep 01 22:49	0°♍			13725 Apr 24 04:10	0°Ϡ		
	13722 Sep 27 05:27	0°♊		morning set	13725 May 05 06:37	13°Ϡ45'48		
	13722 Oct 23 19:29	0°♊			13725 May 18 08:00	0°Π		
desc. node	13722 Nov 03 16:23	11°♊30'10			13725 Jun 11 08:31	0°♎		
evening max el	13722 Nov 11 19:01	19°♊38'44	46°09'20	max. Earth dist.	13725 Jun 11 12:14	0°♎11'35	1.71688 AU	
	13722 Nov 22 22:21	0°♋						
greatest brilliancy	13722 Dec 21 01:33	18°♋32'39	-4.8m	superior conj	13725 Jun 14 02:32	3°♎26'32	-1°27'17	
retrograde	13722 Dec 31 03:43	20°♋23'52		minimum elong	13725 Jun 14 01:10	3°♎22'15	1°28'21	
evening set	13723 Jan 17 11:41	14°♋40'40			13725 Jul 05 07:05	0°♏		
inferior conj	13723 Jan 21 14:10	12°♋09'01	-7°10'29	evening rise	13725 Jul 24 05:30	23°♏44'10		
minimum elong	13723 Jan 22 00:03	11°♋53'32	7°07'54		13725 Jul 29 05:28	0°ϯ		
min. Earth dist.	13723 Jan 21 20:48	11°♋58'38	0.28827 AU	asc. node	13725 Aug 11 08:48	16°ϯ26'33		
morning rise	13723 Jan 26 12:23	9°♋08'37			13725 Aug 22 05:19	0°♁		
direct	13723 Feb 11 23:10	3°♋55'58			13725 Sep 15 08:14	0°♍		
greatest brilliancy	13723 Feb 22 16:42	6°♋02'39	-4.8m		13725 Oct 09 16:32	0°♊		
asc. node	13723 Feb 24 18:55	6°♋53'25			13725 Nov 03 10:10	0°♊		
	13723 Mar 28 04:48	0°κ			13725 Nov 28 19:42	0°♋		
morning max el	13723 Apr 02 07:10	4°κ53'49	45°56'44	desc. node	13725 Dec 01 02:49	2°♋39'34		
	13723 Apr 26 05:59	0°Υ			13725 Dec 25 08:58	0°κ		
	13723 May 22 14:12	0°Ϡ		evening max el	13726 Jan 21 21:12	28°κ30'40	45°55'15	
desc. node	13723 Jun 16 19:43	0°Π00'22			13726 Jan 23 10:32	0°Υ		
	13723 Jun 16 19:36	0°Π		greatest brilliancy	13726 Mar 01 22:09	26°Υ58'57	-4.8m	
	13723 Jul 11 10:32	0°♎		retrograde	13726 Mar 11 20:34	28°Υ47'26		
	13723 Aug 04 17:24	0°♏		asc. node	13726 Mar 24 04:08	25°Υ47'35		

evening set	13726 Mar 26 15:57	24° $\Upsilon$ 31'26		max. Earth dist.	13728 Aug 28 22:57	20° $\mathbb{M}$ 13'02	1.71577 AU
inferior conj	13726 Apr 01 23:56	20° $\Upsilon$ 44'05	2°11'33		13728 Sep 05 18:26	0° $\underline{\mathbf{A}}$	
minimum elong	13726 Apr 01 19:04	20° $\Upsilon$ 51'42	2°09'48	asc. node	13728 Sep 07 23:21	2° $\underline{\mathbf{A}}$ 45'34	
min. Earth dist.	13726 Apr 02 03:07	20° $\Upsilon$ 39'05	0.28109 AU		13728 Sep 29 18:22	0° $\mathbb{M}$	
morning rise	13726 Apr 07 21:48	17° $\Upsilon$ 09'39		evening rise	13728 Oct 06 00:06	7° $\mathbb{M}$ 46'50	
direct	13726 Apr 23 03:30	12° $\Upsilon$ 36'10			13728 Oct 23 20:46	0° $\mathcal{X}$	
greatest brilliancy	13726 May 03 15:21	14° $\Upsilon$ 38'29	-4.8m		13728 Nov 17 03:17	0° $\mathcal{Z}$	
	13726 May 27 09:29	0° $\mathcal{X}$			13728 Dec 11 16:17	0° $\approx$	
morning max el	13726 Jun 12 03:54	14° $\mathcal{X}$ 39'26	46°39'32	desc. node	13728 Dec 28 14:42	20° $\approx$ 26'39	
	13726 Jun 26 21:23	0° $\mathbb{I}$			13729 Jan 05 14:24	0° $\mathcal{H}$	
desc. node	13726 Jul 14 06:53	19° $\mathbb{I}$ 21'36			13729 Jan 31 00:35	0° $\Upsilon$	
	13726 Jul 23 12:26	0° $\mathcal{E}$			13729 Feb 26 04:41	0° $\mathcal{B}$	
	13726 Aug 17 20:09	0° $\Omega$			13729 Mar 25 21:16	0° $\mathbb{I}$	
	13726 Sep 11 14:14	0° $\mathbb{M}$		evening max el	13729 Apr 03 09:24	8° $\mathbb{I}$ 34'07	46°13'37
	13726 Oct 06 02:15	0° $\underline{\mathbf{A}}$		asc. node	13729 Apr 20 13:15	24° $\mathbb{I}$ 11'02	
	13726 Oct 30 11:21	0° $\mathbb{M}$			13729 Apr 28 03:04	0° $\mathcal{E}$	
asc. node	13726 Nov 04 02:12	5° $\mathbb{M}$ 41'42		greatest brilliancy	13729 May 13 11:42	8° $\mathcal{E}$ 21'08	-4.8m
	13726 Nov 23 18:42	0° $\mathcal{X}$		retrograde	13729 May 23 02:11	10° $\mathcal{E}$ 05'01	
morning set	13726 Dec 13 20:57	24° $\mathcal{X}$ 50'26		evening set	13729 Jun 10 03:16	3° $\mathcal{E}$ 51'56	
	13726 Dec 18 01:04	0° $\mathcal{Z}$		inferior conj	13729 Jun 12 20:13	2° $\mathcal{E}$ 12'14	9°08'33
	13727 Jan 11 07:31	0° $\approx$		minimum elong	13729 Jun 12 18:09	2° $\mathcal{E}$ 15'25	9°07'27
				min. Earth dist.	13729 Jun 13 03:24	2° $\mathcal{E}$ 01'06	0.27580 AU
superior conj	13727 Jan 19 16:35	10° $\approx$ 20'50	1°11'42	morning rise	13729 Jun 15 09:01	0° $\mathcal{E}$ 38'39	
minimum elong	13727 Jan 20 01:43	10° $\approx$ 49'00	1°12'20		13729 Jun 16 10:44	30° $\mathcal{R}$ $\mathbb{I}$	
max. Earth dist.	13727 Jan 20 17:50	11° $\approx$ 38'45	1.73125 AU	direct	13729 Jul 03 17:42	24° $\mathbb{I}$ 12'40	
	13727 Feb 04 14:58	0° $\mathcal{H}$		greatest brilliancy	13729 Jul 13 17:44	26° $\mathbb{I}$ 06'21	-4.9m
desc. node	13727 Feb 23 16:13	23° $\mathcal{H}$ 28'08			13729 Jul 21 21:40	0° $\mathcal{E}$	
evening rise	13727 Feb 26 07:43	26° $\mathcal{H}$ 43'28		desc. node	13729 Aug 10 16:40	15° $\mathcal{E}$ 02'41	
	13727 Feb 28 23:36	0° $\Upsilon$		morning max el	13729 Aug 23 06:57	27° $\mathcal{E}$ 04'44	46°56'40
	13727 Mar 25 08:48	0° $\mathcal{B}$			13729 Aug 26 04:06	0° $\Omega$	
	13727 Apr 18 18:04	0° $\mathbb{I}$			13729 Sep 22 19:21	0° $\mathbb{M}$	
	13727 May 13 04:04	0° $\mathcal{E}$			13729 Oct 18 18:04	0° $\underline{\mathbf{A}}$	
	13727 Jun 06 17:20	0° $\Omega$			13729 Nov 13 00:17	0° $\mathbb{M}$	
asc. node	13727 Jun 16 08:17	11° $\Omega$ 40'10		asc. node	13729 Dec 01 15:12	22° $\mathbb{M}$ 24'52	
	13727 Jul 01 14:32	0° $\mathbb{M}$			13729 Dec 07 21:31	0° $\mathcal{X}$	
	13727 Jul 27 04:30	0° $\underline{\mathbf{A}}$			13730 Jan 01 12:48	0° $\mathcal{Z}$	
	13727 Aug 23 09:15	0° $\mathbb{M}$			13730 Jan 26 00:08	0° $\approx$	
evening max el	13727 Aug 30 02:42	6° $\mathbb{M}$ 53'20	46°38'38		13730 Feb 19 09:13	0° $\mathcal{H}$	
	13727 Sep 25 14:24	0° $\mathcal{X}$		morning set	13730 Feb 20 16:17	1° $\mathcal{H}$ 35'43	
desc. node	13727 Oct 06 08:54	6° $\mathcal{X}$ 13'26			13730 Mar 15 16:53	0° $\Upsilon$	
greatest brilliancy	13727 Oct 08 11:02	7° $\mathcal{X}$ 05'42	-4.8m	desc. node	13730 Mar 23 06:48	9° $\Upsilon$ 21'49	
retrograde	13727 Oct 19 08:40	9° $\mathcal{X}$ 18'06		max. Earth dist.	13730 Mar 28 16:42	16° $\Upsilon$ 03'19	1.72793 AU
evening set	13727 Nov 04 20:32	4° $\mathcal{X}$ 05'08					
min. Earth dist.	13727 Nov 08 19:14	1° $\mathcal{X}$ 42'37	0.28125 AU	superior conj	13730 Mar 30 15:12	18° $\Upsilon$ 27'08	-0°17'43
inferior conj	13727 Nov 09 15:27	1° $\mathcal{X}$ 11'21	-7°21'46	minimum elong	13730 Mar 30 11:01	18° $\Upsilon$ 14'14	0°17'44
minimum elong	13727 Nov 09 05:26	1° $\mathcal{X}$ 26'51	7°19'09		13730 Apr 08 23:02	0° $\mathcal{B}$	
	13727 Nov 11 13:44	30° $\mathcal{R}$ $\mathbb{M}$			13730 May 03 03:15	0° $\mathbb{I}$	
morning rise	13727 Nov 13 14:39	28° $\mathbb{M}$ 46'39		evening rise	13730 May 08 07:24	6° $\mathbb{I}$ 26'00	
direct	13727 Nov 30 17:07	23° $\mathbb{M}$ 14'32			13730 May 27 05:42	0° $\mathcal{E}$	
greatest brilliancy	13727 Dec 10 07:19	24° $\mathbb{M}$ 54'28	-4.8m		13730 Jun 20 07:40	0° $\Omega$	
	13727 Dec 20 23:26	0° $\mathcal{X}$		asc. node	13730 Jul 13 20:53	29° $\Omega$ 15'26	
morning max el	13728 Jan 18 14:32	23° $\mathcal{X}$ 19'04	45°45'04		13730 Jul 14 11:17	0° $\mathbb{M}$	
	13728 Jan 25 09:03	0° $\mathcal{Z}$			13730 Aug 07 19:16	0° $\underline{\mathbf{A}}$	
asc. node	13728 Jan 27 11:36	2° $\mathcal{Z}$ 08'11			13730 Sep 01 11:30	0° $\mathbb{M}$	
	13728 Feb 22 09:02	0° $\approx$			13730 Sep 26 19:28	0° $\mathcal{X}$	
	13728 Mar 19 11:17	0° $\mathcal{H}$			13730 Oct 23 12:36	0° $\mathcal{Z}$	
	13728 Apr 13 16:33	0° $\Upsilon$		desc. node	13730 Nov 02 18:14	10° $\mathcal{Z}$ 44'53	
	13728 May 08 09:45	0° $\mathcal{B}$		evening max el	13730 Nov 09 11:03	17° $\mathcal{Z}$ 27'10	46°10'14
desc. node	13728 May 18 09:03	12° $\mathcal{B}$ 13'39			13730 Nov 23 03:08	0° $\approx$	
	13728 Jun 01 18:45	0° $\mathbb{I}$		greatest brilliancy	13730 Dec 18 16:38	16° $\approx$ 21'07	-4.8m
	13728 Jun 25 21:57	0° $\mathcal{E}$		retrograde	13730 Dec 28 19:44	18° $\approx$ 12'40	
morning set	13728 Jul 19 01:44	28° $\mathcal{E}$ 57'43		evening set	13731 Jan 15 06:27	12° $\approx$ 25'20	
	13728 Jul 19 21:37	0° $\Omega$		inferior conj	13731 Jan 19 06:05	9° $\approx$ 57'37	-7°22'12
	13728 Aug 12 19:53	0° $\mathbb{M}$		minimum elong	13731 Jan 19 15:41	9° $\approx$ 42'32	7°19'43
				min. Earth dist.	13731 Jan 19 11:43	9° $\approx$ 48'46	0.28840 AU
superior conj	13728 Aug 27 19:43	18° $\mathbb{M}$ 47'45	-0°26'49	morning rise	13731 Jan 24 00:58	7° $\approx$ 01'59	
minimum elong	13728 Aug 28 02:18	19° $\mathbb{M}$ 08'22	0°26'49	direct	13731 Feb 09 15:40	1° $\approx$ 44'56	

greatest brilliancy	13731 Feb 20 07:12	3°  49'48	-4.8m			13733 Oct 09 04:04	0° 		
asc. node	13731 Feb 23 20:59	5°  20'37				13733 Nov 02 22:18	0° 		
	13731 Mar 28 04:26	0° 				13733 Nov 28 09:00	0° 		
morning max el	13731 Mar 30 22:43	2°  40'36	45°55'26	desc. node		13733 Nov 30 04:46	2° 	06'28	
	13731 Apr 25 22:05	0° 				13733 Dec 25 00:47	0° 		
	13731 May 22 03:50	0° 		evening max el		13734 Jan 19 11:11	26° 	15'18	45°55'15
desc. node	13731 Jun 15 21:40	29°  28'34				13734 Jan 23 09:58	0° 		
	13731 Jun 16 08:04	0° 		greatest brilliancy		13734 Feb 27 13:20	24° 	45'24	-4.8m
	13731 Jul 10 22:22	0° 		retrograde		13734 Mar 09 11:13	26° 	33'49	
	13731 Aug 04 04:50	0° 		asc. node		13734 Mar 23 06:01	22° 	50'17	
	13731 Aug 28 07:34	0° 		evening set		13734 Mar 24 06:49	22° 	17'30	
	13731 Sep 21 09:09	0° 		inferior conj		13734 Mar 30 15:12	18° 	29'58	1°50'15
morning set	13731 Oct 01 16:08	12° 	49'44	minimum elong		13734 Mar 30 11:05	18° 	36'24	1°48'45
asc. node	13731 Oct 06 13:52	18° 	56'33	min. Earth dist.		13734 Mar 30 19:07	18° 	23'50	0.28135 AU
	13731 Oct 15 10:50	0° 		morning rise		13734 Apr 05 14:53	14° 	52'59	
	13731 Nov 08 13:12	0° 		direct		13734 Apr 20 18:25	10° 	21'28	
				greatest brilliancy		13734 May 01 08:17	12° 	25'24	-4.8m
superior conj	13731 Nov 09 03:09	0°  43'21	1°10'03			13734 May 27 15:30	0° 		
minimum elong	13731 Nov 08 17:24	0° 	13'04	1°10'36	morning max el	13734 Jun 09 18:33	12° 	21'48	46°38'08
max. Earth dist.	13731 Nov 11 10:33	3° 	35'34	1.72436 AU		13734 Jun 26 15:00	0° 		
	13731 Dec 02 17:07	0° 		desc. node		13734 Jul 13 08:55	18° 	11'43'59	
evening rise	13731 Dec 16 07:48	16° 	50'20			13734 Jul 23 02:43	0° 		
	13731 Dec 26 23:53	0° 				13734 Aug 17 08:57	0° 		
	13732 Jan 20 10:40	0° 				13734 Sep 11 02:12	0° 		
desc. node	13732 Jan 26 03:58	6° 	59'12			13734 Oct 05 13:39	0° 		
	13732 Feb 14 01:55	0° 				13734 Oct 29 22:21	0° 		
	13732 Mar 09 21:33	0° 		asc. node		13734 Nov 03 03:59	5° 	13'22	
	13732 Apr 03 22:35	0° 				13734 Nov 23 05:26	0° 		
	13732 Apr 29 09:44	0° 		morning set		13734 Dec 11 13:18	22° 	39'46	
asc. node	13732 May 17 23:01	21° 	51'42'21			13734 Dec 17 11:38	0° 		
	13732 May 25 20:07	0° 				13735 Jan 10 18:00	0° 		
evening max el	13732 Jun 15 12:00	21° 	46'47	46°41'15					
	13732 Jun 24 00:18	0° 		superior conj		13735 Jan 17 09:31	8° 	12'39	1°13'30
greatest brilliancy	13732 Jul 25 13:07	22° 	09'00	-4.9m	minimum elong	13735 Jan 17 18:21	8° 	39'53	1°14'10
retrograde	13732 Aug 04 15:03	24° 	02'42		max. Earth dist.	13735 Jan 18 11:56	9° 	34'11	1.73114 AU
evening set	13732 Aug 19 16:34	19° 	36'22			13735 Feb 04 01:26	0° 		
inferior conj	13732 Aug 25 07:11	16° 	17'44	3°16'19	desc. node	13735 Feb 22 18:03	23° 	01'26	
minimum elong	13732 Aug 25 14:26	16° 	06'39	3°13'44	evening rise	13735 Feb 23 23:56	24° 	33'22	
min. Earth dist.	13732 Aug 25 11:05	16° 	11'46	0.26952 AU		13735 Feb 28 10:08	0° 		
morning rise	13732 Aug 31 12:27	12° 	39'49			13735 Mar 24 19:32	0° 		
desc. node	13732 Sep 07 01:50	9° 	49'38			13735 Apr 18 05:07	0° 		
direct	13732 Sep 15 01:04	8° 	33'09			13735 May 12 15:34	0° 		
greatest brilliancy	13732 Sep 25 00:17	10° 	23'42	-4.8m		13735 Jun 06 05:29	0° 		
	13732 Oct 24 03:17	0° 		asc. node		13735 Jun 15 10:14	11° 	08'21	
morning max el	13732 Nov 03 18:35	9° 	58'15	46°21'45		13735 Jul 01 03:45	0° 		
	13732 Nov 23 05:10	0° 				13735 Jul 26 19:42	0° 		
	13732 Dec 20 04:14	0° 				13735 Aug 23 05:22	0° 		
asc. node	13732 Dec 29 03:09	10° 	19'00		evening max el	13735 Aug 27 16:57	4° 	33'37	46°39'28
	13733 Jan 14 22:28	0° 				13735 Sep 26 16:45	0° 		
	13733 Feb 09 01:19	0° 			desc. node	13735 Oct 05 10:47	4° 	33'15	
	13733 Mar 05 19:09	0° 			greatest brilliancy	13735 Oct 06 01:11	4° 	47'32	-4.8m
	13733 Mar 30 07:15	0° 			retrograde	13735 Oct 16 23:56	7° 	01'14	
desc. node	13733 Apr 19 21:13	25° 	02'22'24		evening set	13735 Nov 02 07:28	1° 	53'28	
	13733 Apr 23 14:58	0° 				13735 Nov 05 11:43	30° 		
morning set	13733 May 02 19:33	11° 	23'32		min. Earth dist.	13735 Nov 06 09:18	29° 	26'50	0.28072 AU
	13733 May 17 18:46	0° 			inferior conj	13735 Nov 07 05:55	28° 	55'01	-7°09'14
max. Earth dist.	13733 Jun 08 19:44	27° 	11'31'18	1.71720 AU	minimum elong	13735 Nov 06 19:38	29° 	10'54	7°06'29
	13733 Jun 10 19:17	0° 			morning rise	13735 Nov 11 08:08	26° 	26'17	
				direct		13735 Nov 28 07:04	20° 	58'46	
superior conj	13733 Jun 11 14:49	1° 	50'1'08	-1°26'59	greatest brilliancy	13735 Dec 07 21:03	22° 	38'50	-4.8m
minimum elong	13733 Jun 11 12:26	0° 	53'40	1°28'01		13735 Dec 22 02:24	0° 		
	13733 Jul 04 17:53	0° 			morning max el	13736 Jan 16 05:45	21° 	06'14	45°45'46
evening rise	13733 Jul 21 16:48	21° 	01'15'12			13736 Jan 25 04:40	0° 		
	13733 Jul 28 16:21	0° 			asc. node	13736 Jan 26 13:35	1° 	32'41'17	
asc. node	13733 Aug 10 10:42	15° 	05'58'22			13736 Feb 21 23:37	0° 		
	13733 Aug 21 16:19	0° 				13736 Mar 18 23:54	0° 		
	13733 Sep 14 19:26	0° 				13736 Apr 13 04:12	0° 		

	13736 May 07 20:53	0°♄		13738 Oct 23 05:56	0°♄
desc. node	13736 May 17 10:59	11°♄45'40	desc. node	13738 Nov 01 20:18	9°♄59'51
	13736 Jun 01 05:38	0°♄	evening max el	13738 Nov 07 02:29	15°♄14'22 46°11'09
	13736 Jun 25 08:43	0°♄		13738 Nov 23 09:51	0°♄
morning set	13736 Jul 16 13:39	26°♄31'12	greatest brilliancy	13738 Dec 16 08:12	14°♄10'24 -4.8m
	13736 Jul 19 08:19	0°♄	retrograde	13738 Dec 26 11:08	16°♄01'39
	13736 Aug 12 06:31	0°♄	evening set	13739 Jan 13 01:03	10°♄10'24
			inferior conj	13739 Jan 16 21:51	7°♄46'41 -7°33'22
superior conj	13736 Aug 25 07:56	16°♄22'22 -0°30'26	minimum elong	13739 Jan 17 07:08	7°♄32'05 7°31'00
minimum elong	13736 Aug 25 15:20	16°♄45'31 0°30'26	min. Earth dist.	13739 Jan 17 02:48	7°♄38'55 0.28846 AU
max. Earth dist.	13736 Aug 26 10:12	17°♄44'41 1.71560 AU	morning rise	13739 Jan 21 13:17	4°♄55'49
	13736 Sep 05 05:01	0°♄		13739 Feb 02 16:28	30°♄♄
asc. node	13736 Sep 07 01:05	2°♄17'53	direct	13739 Feb 07 07:33	29°♄34'22
	13736 Sep 29 04:58	0°♄		13739 Feb 12 00:59	0°♄
evening rise	13736 Oct 03 14:25	5°♄28'50	greatest brilliancy	13739 Feb 17 21:48	1°♄37'38 -4.8m
	13736 Oct 23 07:26	0°♄	asc. node	13739 Feb 22 22:56	3°♄51'23
	13736 Nov 16 14:07	0°♄		13739 Mar 28 02:42	0°♄
	13736 Dec 11 03:27	0°♄	morning max el	13739 Mar 28 13:21	0°♄26'03 45°54'18
desc. node	13736 Dec 27 16:42	19°♄58'06		13739 Apr 25 13:32	0°♄
	13737 Jan 05 02:08	0°♄		13739 May 21 16:57	0°♄
	13737 Jan 30 13:22	0°♄	desc. node	13739 Jun 14 23:39	28°♄58'17
	13737 Feb 25 19:30	0°♄		13739 Jun 15 20:04	0°♄
	13737 Mar 25 17:01	0°♄		13739 Jul 10 09:44	0°♄
evening max el	13737 Apr 01 00:41	6°♄19'22 46°12'43		13739 Aug 03 15:49	0°♄
asc. node	13737 Apr 19 15:12	23°♄05'06		13739 Aug 27 18:20	0°♄
	13737 Apr 29 03:13	0°♄		13739 Sep 20 19:47	0°♄
greatest brilliancy	13737 May 11 00:10	6°♄00'10 -4.8m	morning set	13739 Sep 29 06:10	10°♄30'57
retrograde	13737 May 20 16:10	7°♄44'48	asc. node	13739 Oct 05 15:41	18°♄29'21
evening set	13737 Jun 07 14:36	1°♄35'07		13739 Oct 14 21:21	0°♄
inferior conj	13737 Jun 10 10:00	29°♄51'28 9°05'49			
minimum elong	13737 Jun 10 07:02	29°♄56'04 9°04'39	superior conj	13739 Nov 06 18:38	28°♄29'46 1°07'57
	13737 Jun 10 04:30	30°♄♄	minimum elong	13739 Nov 06 08:39	27°♄58'44 1°08'29
min. Earth dist.	13737 Jun 10 16:05	29°♄42'02 0.27605 AU		13739 Nov 07 23:39	0°♄
morning rise	13737 Jun 12 23:26	28°♄16'48	max. Earth dist.	13739 Nov 09 01:29	1°♄20'18 1.72403 AU
direct	13737 Jul 01 08:18	21°♄51'43		13739 Dec 02 03:34	0°♄
greatest brilliancy	13737 Jul 11 06:48	23°♄44'11 -4.9m	evening rise	13739 Dec 13 23:45	14°♄38'56
	13737 Jul 23 06:21	0°♄		13739 Dec 26 10:25	0°♄
desc. node	13737 Aug 09 18:42	14°♄02'54		13740 Jan 19 21:25	0°♄
morning max el	13737 Aug 20 21:42	24°♄45'32 46°56'49	desc. node	13740 Jan 25 05:45	6°♄31'42
	13737 Aug 26 00:54	0°♄		13740 Feb 13 13:01	0°♄
	13737 Sep 22 10:48	0°♄		13740 Mar 09 09:11	0°♄
	13737 Oct 18 07:21	0°♄		13740 Apr 03 11:05	0°♄
	13737 Nov 12 12:23	0°♄		13740 Apr 28 23:44	0°♄
asc. node	13737 Nov 30 17:14	21°♄56'09	asc. node	13740 May 17 01:05	20°♄35'28
	13737 Dec 07 08:54	0°♄		13740 May 25 13:17	0°♄
	13737 Dec 31 23:42	0°♄	evening max el	13740 Jun 13 00:32	19°♄22'17 46°40'42
	13738 Jan 25 10:45	0°♄		13740 Jun 24 03:46	0°♄
morning set	13738 Feb 18 08:56	29°♄26'55	greatest brilliancy	13740 Jul 23 04:15	19°♄47'46 -4.9m
	13738 Feb 18 19:40	0°♄	retrograde	13740 Aug 02 03:35	21°♄39'32
	13738 Mar 15 03:18	0°♄	evening set	13740 Aug 17 08:10	17°♄09'51
desc. node	13738 Mar 22 08:34	8°♄55'08	inferior conj	13740 Aug 22 20:11	13°♄55'00 3°38'50
max. Earth dist.	13738 Mar 26 09:27	13°♄54'29 1.72817 AU	minimum elong	13740 Aug 23 04:08	13°♄42'50 3°36'02
			min. Earth dist.	13740 Aug 23 01:38	13°♄46'39 0.26952 AU
superior conj	13738 Mar 28 06:06	16°♄12'33 -0°14'15	morning rise	13740 Aug 29 00:07	10°♄18'24
minimum elong	13738 Mar 28 02:44	16°♄02'09 0°14'16	desc. node	13740 Sep 06 03:42	6°♄59'30
behind sun begin	13738 Mar 27 15:41	15°♄27'58	direct	13740 Sep 12 13:22	6°♄09'58
behind sun end	13738 Mar 28 13:48	16°♄36'19	greatest brilliancy	13740 Sep 22 14:21	8°♄01'44 -4.8m
	13738 Apr 08 09:29	0°♄		13740 Oct 24 07:00	0°♄
	13738 May 02 13:46	0°♄	morning max el	13740 Nov 01 07:32	7°♄36'42 46°23'16
evening rise	13738 May 05 21:27	4°♄07'39		13740 Nov 22 22:18	0°♄
	13738 May 26 16:21	0°♄		13740 Dec 19 18:05	0°♄
	13738 Jun 19 18:31	0°♄	asc. node	13740 Dec 28 05:05	9°♄46'08
asc. node	13738 Jul 12 22:49	28°♄46'50		13741 Jan 14 10:48	0°♄
	13738 Jul 13 22:27	0°♄		13741 Feb 08 12:50	0°♄
	13738 Aug 07 06:56	0°♄		13741 Mar 05 06:12	0°♄
	13738 Aug 31 23:59	0°♄		13741 Mar 29 18:02	0°♄
	13738 Sep 26 09:24	0°♄	desc. node	13741 Apr 18 23:02	24°♄55'06

	13741 Apr 23 01:37	0°♄		evening set	13743 Oct 30 18:33	29°♍41'31	
morning set	13741 Apr 30 08:22	9°♄01'24		min. Earth dist.	13743 Nov 03 23:12	27°♍11'01	0.28016 AU
	13741 May 17 05:22	0°♄		inferior conj	13743 Nov 04 20:23	26°♍38'22	-6°55'54
max. Earth dist.	13741 Jun 06 05:27	24°♄58'21	1.71753 AU	minimum elong	13743 Nov 04 09:54	26°♍54'32	6°53'02
				morning rise	13743 Nov 09 01:40	24°♍05'36	
superior conj	13741 Jun 09 03:07	28°♄36'13	-1°26'30	direct	13743 Nov 25 21:29	18°♍42'57	
minimum elong	13741 Jun 08 23:43	28°♄25'34	1°27'31	greatest brilliancy	13743 Dec 05 10:14	20°♍22'26	-4.8m
	13741 Jun 10 05:54	0°♄			13743 Dec 22 22:04	0°♄	
	13741 Jul 04 04:33	0°♄		morning max el	13744 Jan 13 21:10	18°♄53'41	45°46'18
evening rise	13741 Jul 19 04:19	18°♄47'24			13744 Jan 24 23:49	0°♄	
	13741 Jul 28 03:05	0°♄		asc. node	13744 Jan 25 15:30	0°♄40'30	
asc. node	13741 Aug 09 12:26	15°♄30'10			13744 Feb 21 14:14	0°♄	
	13741 Aug 21 03:09	0°♄			13744 Mar 18 12:43	0°♄	
	13741 Sep 14 06:27	0°♄			13744 Apr 12 16:08	0°♄	
	13741 Oct 08 15:26	0°♄			13744 May 07 08:20	0°♄	
	13741 Nov 02 10:22	0°♄		desc. node	13744 May 16 12:56	11°♄16'52	
	13741 Nov 27 22:20	0°♄			13744 May 31 16:49	0°♄	
desc. node	13741 Nov 29 06:44	1°♄33'21			13744 Jun 24 19:44	0°♄	
	13741 Dec 24 16:55	0°♄		morning set	13744 Jul 14 01:26	24°♄03'34	
evening max el	13742 Jan 17 01:40	24°♄01'01	45°55'15		13744 Jul 18 19:14	0°♄	
	13742 Jan 23 10:42	0°♄			13744 Aug 11 17:23	0°♄	
greatest brilliancy	13742 Feb 25 03:53	22°♄30'39	-4.8m				
retrograde	13742 Mar 07 02:12	24°♄19'34		superior conj	13744 Aug 22 20:07	13°♄56'02	-0°34'00
evening set	13742 Mar 21 21:42	20°♄02'37		minimum elong	13744 Aug 23 04:15	14°♄21'33	0°34'01
asc. node	13742 Mar 22 08:00	19°♄48'31		max. Earth dist.	13744 Aug 23 23:05	15°♄20'34	1.71543 AU
inferior conj	13742 Mar 28 06:15	16°♄15'06	1°28'36		13744 Sep 04 15:52	0°♄	
minimum elong	13742 Mar 28 02:55	16°♄20'19	1°27'23	asc. node	13744 Sep 06 02:56	1°♄49'42	
min. Earth dist.	13742 Mar 28 10:41	16°♄08'10	0.28160 AU		13744 Sep 28 15:50	0°♄	
morning rise	13742 Apr 03 07:40	12°♄36'01		evening rise	13744 Oct 01 04:45	3°♄10'01	
direct	13742 Apr 18 09:35	8°♄06'06			13744 Oct 22 18:22	0°♄	
greatest brilliancy	13742 Apr 29 00:42	10°♄11'28	-4.8m		13744 Nov 16 01:12	0°♄	
	13742 May 27 19:35	0°♄			13744 Dec 10 14:51	0°♄	
morning max el	13742 Jun 07 09:55	10°♄05'59	46°36'45	desc. node	13744 Dec 26 18:33	19°♄28'17	
	13742 Jun 26 08:12	0°♄			13745 Jan 04 14:10	0°♄	
desc. node	13742 Jul 12 10:47	18°♄06'20			13745 Jan 30 02:33	0°♄	
	13742 Jul 22 16:50	0°♄			13745 Feb 25 10:55	0°♄	
	13742 Aug 16 21:39	0°♄			13745 Mar 25 14:01	0°♄	
	13742 Sep 10 14:04	0°♄		evening max el	13745 Mar 29 15:36	4°♄02'16	46°11'33
	13742 Oct 05 00:59	0°♄		asc. node	13745 Apr 18 17:17	21°♄55'53	
	13742 Oct 29 09:18	0°♄			13745 Apr 30 14:40	0°♄	
asc. node	13742 Nov 02 05:57	4°♄45'48		greatest brilliancy	13745 May 08 13:07	3°♄37'53	-4.8m
	13742 Nov 22 16:08	0°♄		retrograde	13745 May 18 05:27	5°♄22'24	
morning set	13742 Dec 09 05:45	20°♄29'23			13745 Jun 03 20:30	30°♄11'12	
	13742 Dec 16 22:13	0°♄		evening set	13745 Jun 05 01:16	29°♄17'12	
	13743 Jan 10 04:32	0°♄		inferior conj	13745 Jun 07 23:36	27°♄28'53	9°02'02
				minimum elong	13745 Jun 07 19:45	27°♄34'53	9°00'47
superior conj	13743 Jan 15 02:20	6°♄03'49	1°15'12	min. Earth dist.	13745 Jun 08 04:58	27°♄20'33	0.27626 AU
minimum elong	13743 Jan 15 10:47	6°♄29'54	1°15'54	morning rise	13745 Jun 10 14:11	25°♄52'15	
max. Earth dist.	13743 Jan 16 07:22	7°♄33'28	1.73110 AU	direct	13745 Jun 28 22:22	19°♄28'58	
	13743 Feb 03 12:01	0°♄		greatest brilliancy	13745 Jul 08 20:11	21°♄20'36	-4.9m
evening rise	13743 Feb 21 15:52	22°♄21'53			13745 Jul 24 06:30	0°♄	
desc. node	13743 Feb 21 19:48	22°♄33'59		desc. node	13745 Aug 08 20:37	13°♄02'57	
	13743 Feb 27 20:51	0°♄		morning max el	13745 Aug 18 11:15	22°♄22'03	46°57'02
	13743 Mar 24 06:27	0°♄			13745 Aug 25 21:26	0°♄	
	13743 Apr 17 16:20	0°♄			13745 Sep 22 02:23	0°♄	
	13743 May 12 03:15	0°♄			13745 Oct 17 20:51	0°♄	
	13743 Jun 05 17:50	0°♄			13745 Nov 12 00:46	0°♄	
asc. node	13743 Jun 14 12:09	10°♄35'50		asc. node	13745 Nov 29 19:03	21°♄25'52	
	13743 Jun 30 17:12	0°♄			13745 Dec 06 20:34	0°♄	
	13743 Jul 26 11:15	0°♄			13745 Dec 31 10:54	0°♄	
	13743 Aug 23 02:19	0°♄			13746 Jan 24 21:39	0°♄	
evening max el	13743 Aug 25 08:17	2°♄16'17	46°40'19	morning set	13746 Feb 16 01:48	27°♄17'50	
	13743 Sep 28 06:37	0°♄			13746 Feb 18 06:27	0°♄	
greatest brilliancy	13743 Oct 03 15:17	2°♄29'04	-4.8m		13746 Mar 14 14:04	0°♄	
desc. node	13743 Oct 04 12:52	2°♄49'19		desc. node	13746 Mar 21 10:28	8°♄27'41	
retrograde	13743 Oct 14 15:36	4°♄44'01		max. Earth dist.	13746 Mar 24 01:09	11°♄41'20	1.72848 AU
	13743 Oct 30 05:27	30°♄					

superior conj	13746 Mar 25 21:09	13° $\Upsilon$ 57'19	-0°10'46	morning rise	13748 Aug 26 11:16	7° $\mathfrak{M}$ 54'58	
minimum elong	13746 Mar 25 18:36	13° $\Upsilon$ 49'27	0°10'48	desc. node	13748 Sep 05 05:47	4° $\mathfrak{M}$ 12'08	
behind sun begin	13746 Mar 25 00:41	12° $\Upsilon$ 54'03		direct	13748 Sep 10 01:29	3° $\mathfrak{M}$ 43'56	
behind sun end	13746 Mar 26 12:31	14° $\Upsilon$ 44'51		greatest brilliancy	13748 Sep 20 04:11	5° $\mathfrak{M}$ 37'19	-4.9m
	13746 Apr 07 20:20	0° $\mathcal{B}$			13748 Oct 24 09:48	0° $\mathcal{B}$	
	13746 May 02 00:44	0° $\mathbb{I}$		morning max el	13748 Oct 29 21:07	5° $\mathcal{B}$ 15'06	46°25'01
evening rise	13746 May 03 11:20	1° $\mathbb{I}$ 47'29			13748 Nov 22 15:31	0° $\mathfrak{M}$	
	13746 May 26 03:29	0° $\mathcal{E}$			13748 Dec 19 08:09	0° $\mathcal{X}$	
	13746 Jun 19 05:52	0° $\mathcal{Q}$		asc. node	13748 Dec 27 06:56	9° $\mathcal{X}$ 12'19	
asc. node	13746 Jul 12 00:34	28° $\mathcal{Q}$ 16'09			13749 Jan 13 23:21	0° $\mathcal{Z}$	
	13746 Jul 13 10:08	0° $\mathfrak{M}$			13749 Feb 08 00:35	0° $\approx$	
	13746 Aug 06 19:06	0° $\mathcal{B}$			13749 Mar 04 17:29	0° $\mathcal{H}$	
	13746 Aug 31 12:57	0° $\mathfrak{M}$			13749 Mar 29 05:04	0° $\Upsilon$	
	13746 Sep 25 23:54	0° $\mathcal{X}$		desc. node	13749 Apr 18 00:58	24° $\Upsilon$ 27'24	
	13746 Oct 23 00:05	0° $\mathcal{Z}$			13749 Apr 22 12:30	0° $\mathcal{B}$	
desc. node	13746 Oct 31 22:17	9° $\mathcal{Z}$ 12'51		morning set	13749 Apr 27 21:49	6° $\mathcal{B}$ 40'31	
evening max el	13746 Nov 04 17:10	12° $\mathcal{Z}$ 58'31	46°12'07		13749 May 16 16:12	0° $\mathbb{I}$	
	13746 Nov 23 19:44	0° $\approx$		max. Earth dist.	13749 Jun 03 18:30	22° $\mathbb{I}$ 35'08	1.71789 AU
greatest brilliancy	13746 Dec 14 00:11	11° $\approx$ 59'11	-4.8m				
retrograde	13746 Dec 24 02:19	13° $\approx$ 50'06		superior conj	13749 Jun 06 15:43	26° $\mathbb{I}$ 11'33	-1°25'52
evening set	13747 Jan 10 19:41	7° $\approx$ 54'56		minimum elong	13749 Jun 06 11:22	25° $\mathbb{I}$ 57'55	1°26'52
inferior conj	13747 Jan 14 13:48	5° $\approx$ 35'14	-7°43'41		13749 Jun 09 16:45	0° $\mathcal{E}$	
minimum elong	13747 Jan 14 22:41	5° $\approx$ 21'14	7°41'28		13749 Jul 03 15:30	0° $\mathcal{Q}$	
min. Earth dist.	13747 Jan 14 18:16	5° $\approx$ 28'12	0.28850 AU	evening rise	13749 Jul 16 15:54	16° $\mathcal{Q}$ 18'57	
morning rise	13747 Jan 19 01:43	2° $\approx$ 49'14			13749 Jul 27 14:08	0° $\mathfrak{M}$	
	13747 Jan 24 11:12	30° $\mathcal{R}$ $\mathcal{Z}$		asc. node	13749 Aug 08 14:20	15° $\mathfrak{M}$ 01'22	
direct	13747 Feb 04 23:07	27° $\mathcal{Z}$ 23'11			13749 Aug 20 14:20	0° $\mathcal{B}$	
greatest brilliancy	13747 Feb 15 12:59	29° $\mathcal{Z}$ 25'31	-4.8m		13749 Sep 13 17:50	0° $\mathfrak{M}$	
	13747 Feb 17 00:18	0° $\approx$			13749 Oct 08 03:12	0° $\mathcal{X}$	
asc. node	13747 Feb 22 00:54	2° $\approx$ 24'26			13749 Nov 01 22:48	0° $\mathcal{Z}$	
morning max el	13747 Mar 26 03:37	28° $\approx$ 09'41	45°53'12		13749 Nov 27 12:05	0° $\approx$	
	13747 Mar 28 00:25	0° $\mathcal{H}$		desc. node	13749 Nov 28 08:36	0° $\approx$ 58'58	
	13747 Apr 25 05:07	0° $\Upsilon$			13749 Dec 24 09:36	0° $\mathcal{H}$	
	13747 May 21 06:22	0° $\mathcal{B}$		evening max el	13750 Jan 14 17:07	21° $\mathcal{H}$ 48'43	45°55'25
desc. node	13747 Jun 14 01:27	28° $\mathcal{B}$ 26'06			13750 Jan 23 13:00	0° $\Upsilon$	
	13747 Jun 15 08:28	0° $\mathbb{I}$		greatest brilliancy	13750 Feb 22 18:14	20° $\Upsilon$ 15'49	-4.8m
	13747 Jul 09 21:35	0° $\mathcal{E}$		retrograde	13750 Mar 04 17:43	22° $\Upsilon$ 05'30	
	13747 Aug 03 03:19	0° $\mathcal{Q}$		evening set	13750 Mar 19 13:03	17° $\Upsilon$ 47'53	
	13747 Aug 27 05:35	0° $\mathfrak{M}$		asc. node	13750 Mar 21 10:07	16° $\Upsilon$ 44'19	
	13747 Sep 20 06:50	0° $\mathcal{B}$		inferior conj	13750 Mar 25 21:29	14° $\Upsilon$ 00'26	1°07'00
morning set	13747 Sep 26 19:53	8° $\mathcal{B}$ 09'47		minimum elong	13750 Mar 25 18:58	14° $\Upsilon$ 04'23	1°06'04
asc. node	13747 Oct 04 17:35	18° $\mathcal{B}$ 01'10		min. Earth dist.	13750 Mar 26 02:07	13° $\Upsilon$ 53'12	0.28184 AU
	13747 Oct 14 08:16	0° $\mathfrak{M}$		morning rise	13750 Apr 01 00:28	10° $\Upsilon$ 19'32	
				direct	13750 Apr 16 01:23	5° $\Upsilon$ 51'11	
superior conj	13747 Nov 04 10:03	26° $\mathfrak{M}$ 14'45	1°05'45	greatest brilliancy	13750 Apr 26 16:41	7° $\Upsilon$ 57'13	-4.8m
minimum elong	13747 Nov 03 23:53	25° $\mathfrak{M}$ 43'10	1°06'14		13750 May 27 22:01	0° $\mathcal{B}$	
max. Earth dist.	13747 Nov 06 15:11	29° $\mathfrak{M}$ 00'01	1.72368 AU	morning max el	13750 Jun 05 01:56	7° $\mathcal{B}$ 51'55	46°35'21
	13747 Nov 07 10:29	0° $\mathcal{X}$			13750 Jun 26 01:06	0° $\mathbb{I}$	
	13747 Dec 01 14:23	0° $\mathcal{Z}$		desc. node	13750 Jul 11 12:45	17° $\mathbb{I}$ 29'08	
evening rise	13747 Dec 11 15:53	12° $\mathcal{Z}$ 26'58			13750 Jul 22 06:52	0° $\mathcal{E}$	
	13747 Dec 25 21:20	0° $\approx$			13750 Aug 16 10:23	0° $\mathcal{Q}$	
	13748 Jan 19 08:32	0° $\mathcal{H}$			13750 Sep 10 02:04	0° $\mathfrak{M}$	
desc. node	13748 Jan 24 07:33	6° $\mathcal{H}$ 03'10			13750 Oct 04 12:29	0° $\mathcal{B}$	
	13748 Feb 13 00:28	0° $\Upsilon$			13750 Oct 28 20:27	0° $\mathfrak{M}$	
	13748 Mar 08 21:10	0° $\mathcal{B}$		asc. node	13750 Nov 01 07:45	4° $\mathfrak{M}$ 17'08	
	13748 Apr 02 23:58	0° $\mathbb{I}$			13750 Nov 22 03:01	0° $\mathcal{X}$	
	13748 Apr 28 14:16	0° $\mathcal{E}$		morning set	13750 Dec 06 21:53	18° $\mathcal{X}$ 17'31	
asc. node	13748 May 16 02:58	19° $\mathcal{E}$ 54'27			13750 Dec 16 08:56	0° $\mathcal{Z}$	
	13748 May 25 07:21	0° $\mathcal{Q}$			13751 Jan 09 15:10	0° $\approx$	
evening max el	13748 Jun 10 12:40	16° $\mathcal{Q}$ 55'23	46°39'52				
	13748 Jun 24 09:56	0° $\mathfrak{M}$		superior conj	13751 Jan 12 18:59	3° $\approx$ 54'09	1°16'46
greatest brilliancy	13748 Jul 20 18:38	17° $\mathfrak{M}$ 23'21	-4.9m	minimum elong	13751 Jan 13 03:01	4° $\approx$ 18'58	1°17'32
retrograde	13748 Jul 30 16:02	19° $\mathfrak{M}$ 13'57		max. Earth dist.	13751 Jan 14 04:15	5° $\approx$ 36'54	1.73097 AU
evening set	13748 Aug 14 23:34	14° $\mathfrak{M}$ 40'19			13751 Feb 02 22:40	0° $\mathcal{H}$	
inferior conj	13748 Aug 20 08:51	11° $\mathfrak{M}$ 29'36	4°01'05	evening rise	13751 Feb 19 07:50	20° $\mathcal{H}$ 10'22	
minimum elong	13748 Aug 20 17:28	11° $\mathfrak{M}$ 16'26	3°58'06	desc. node	13751 Feb 20 21:43	22° $\mathcal{H}$ 06'54	
min. Earth dist.	13748 Aug 20 15:48	11° $\mathfrak{M}$ 18'59	0.26956 AU		13751 Feb 27 07:36	0° $\Upsilon$	

	13751 Mar 23 17:25	0°♄		13753 Aug 25 16:55	0°♋	
	13751 Apr 17 03:37	0°♊		13753 Sep 21 17:21	0°♎	
	13751 May 11 14:58	0°♍		13753 Oct 17 09:53	0°♌	
	13751 Jun 05 06:12	0°♈		13753 Nov 11 12:43	0°♍	
asc. node	13751 Jun 13 14:00	10°♋03'14		13753 Nov 28 20:53	20°♍56'46	
	13751 Jun 30 06:41	0°♎		13753 Dec 06 07:51	0°♈	
	13751 Jul 26 02:59	0°♌		13753 Dec 30 21:46	0°♎	
evening max el	13751 Aug 23 00:05	0°♍00'10 46°40'50		13754 Jan 24 08:16	0°♎	
	13751 Aug 23 00:01	0°♍		13754 Feb 13 18:31	25°♎09'03	
	13751 Sep 30 19:03	0°♈		13754 Feb 17 16:56	0°♈	
greatest brilliancy	13751 Oct 01 05:31	0°♈10'20 -4.8m		13754 Mar 14 00:32	0°♎	
desc. node	13751 Oct 03 14:52	1°♈00'52		13754 Mar 20 12:16	8°♎01'00	
retrograde	13751 Oct 12 06:53	2°♈25'48		max. Earth dist.	13754 Mar 21 16:40	9°♎28'42 1.72876 AU
	13751 Oct 23 06:01	30°♍				
evening set	13751 Oct 28 05:35	27°♍28'47		superior conj	13754 Mar 23 12:09	11°♎43'05 -0°07'17
min. Earth dist.	13751 Nov 01 13:05	24°♍54'11 0.27960 AU		minimum elong	13754 Mar 23 10:26	11°♎37'46 0°07'18
inferior conj	13751 Nov 02 10:40	24°♍20'56 -6°41'48		behind sun begin	13754 Mar 22 12:55	10°♎31'16
minimum elong	13751 Nov 02 00:03	24°♍37'18 6°38'49		behind sun end	13754 Mar 24 07:58	12°♎44'17
morning rise	13751 Nov 06 19:02	21°♍43'56			13754 Apr 07 06:50	0°♄
direct	13751 Nov 23 12:00	16°♍26'29		evening rise	13754 May 01 01:22	29°♄29'02
greatest brilliancy	13751 Dec 02 23:14	18°♍05'01 -4.8m			13754 May 01 11:20	0°♊
	13751 Dec 23 12:50	0°♈			13754 May 25 14:14	0°♍
morning max el	13752 Jan 11 11:56	16°♈39'21 45°46'56			13754 Jun 18 16:52	0°♋
asc. node	13752 Jan 24 17:31	29°♈57'32		asc. node	13754 Jul 11 02:31	27°♋47'12
	13752 Jan 24 18:28	0°♎			13754 Jul 12 21:28	0°♎
	13752 Feb 21 04:36	0°♎			13754 Aug 06 06:55	0°♌
	13752 Mar 18 01:19	0°♈			13754 Aug 31 01:34	0°♍
	13752 Apr 12 03:51	0°♎			13754 Sep 25 14:06	0°♈
	13752 May 06 19:36	0°♄			13754 Oct 22 18:10	0°♎
desc. node	13752 May 15 14:39	10°♄47'50		desc. node	13754 Oct 31 00:10	8°♎26'17
	13752 May 31 03:49	0°♊		evening max el	13754 Nov 02 07:01	10°♎41'55 46°13'03
	13752 Jun 24 06:35	0°♍			13754 Nov 24 08:18	0°♎
morning set	13752 Jul 11 13:35	21°♍37'41		greatest brilliancy	13754 Dec 11 15:47	9°♎48'42 -4.8m
	13752 Jul 18 05:57	0°♋		retrograde	13754 Dec 21 17:35	11°♎39'54
	13752 Aug 11 04:02	0°♎		evening set	13755 Jan 08 14:08	5°♎40'39
				inferior conj	13755 Jan 12 05:43	3°♎24'56 -7°53'18
superior conj	13752 Aug 20 08:38	11°♎31'29 -0°37'28		minimum elong	13755 Jan 12 14:10	3°♎11'40 7°51'14
minimum elong	13752 Aug 20 17:28	11°♎59'10 0°37'30		min. Earth dist.	13755 Jan 12 09:48	3°♎18'32 0.28858 AU
max. Earth dist.	13752 Aug 21 12:01	12°♎57'18 1.71525 AU		morning rise	13755 Jan 16 14:10	0°♎44'00
	13752 Sep 04 02:30	0°♌			13755 Jan 17 20:35	30°♎
asc. node	13752 Sep 05 04:49	1°♌22'23		direct	13755 Feb 02 14:28	25°♎12'53
	13752 Sep 28 02:30	0°♍		greatest brilliancy	13755 Feb 13 04:49	27°♎15'11 -4.8m
evening rise	13752 Sep 28 19:11	0°♍52'03			13755 Feb 19 06:31	0°♎
	13752 Oct 22 05:07	0°♈		asc. node	13755 Feb 21 02:59	1°♎01'27
	13752 Nov 15 12:09	0°♎		morning max el	13755 Mar 23 18:13	25°♎55'07 45°52'13
	13752 Dec 10 02:09	0°♎			13755 Mar 27 20:59	0°♈
desc. node	13752 Dec 25 20:22	18°♎58'44			13755 Apr 24 20:06	0°♎
	13753 Jan 04 02:07	0°♈			13755 May 20 19:18	0°♄
	13753 Jan 29 15:40	0°♎		desc. node	13755 Jun 13 03:25	27°♄55'53
	13753 Feb 25 02:21	0°♄			13755 Jun 14 20:23	0°♊
	13753 Mar 25 11:27	0°♊			13755 Jul 09 08:56	0°♍
evening max el	13753 Mar 27 05:41	1°♊44'01 46°10'30			13755 Aug 02 14:21	0°♋
asc. node	13753 Apr 17 19:12	20°♊45'25			13755 Aug 26 16:24	0°♎
	13753 May 02 20:00	0°♍			13755 Sep 19 17:29	0°♌
greatest brilliancy	13753 May 06 02:41	1°♍17'33 -4.8m		morning set	13755 Sep 24 09:36	5°♌49'45
retrograde	13753 May 15 18:23	3°♍01'36		asc. node	13755 Oct 03 19:21	17°♌33'48
	13753 May 28 01:25	30°♎			13755 Oct 13 18:46	0°♍
evening set	13753 Jun 02 11:45	27°♎01'25				
inferior conj	13753 Jun 05 13:24	25°♎07'55 8°57'21		superior conj	13755 Nov 02 01:31	24°♎01'10 1°03'27
minimum elong	13753 Jun 05 08:40	25°♎15'18 8°56'00		minimum elong	13755 Nov 01 15:14	23°♎29'10 1°03'52
min. Earth dist.	13753 Jun 05 18:21	25°♎00'13 0.27646 AU		max. Earth dist.	13755 Nov 04 04:19	26°♎39'14 1.72333 AU
morning rise	13753 Jun 08 05:32	23°♎28'42			13755 Nov 06 20:53	0°♈
direct	13753 Jun 26 12:12	17°♎07'39			13755 Dec 01 00:46	0°♎
greatest brilliancy	13753 Jul 06 10:24	18°♎59'13 -4.9m		evening rise	13755 Dec 09 08:12	10°♎16'54
	13753 Jul 24 23:46	0°♍			13755 Dec 25 07:49	0°♎
desc. node	13753 Aug 07 22:39	12°♍05'41			13756 Jan 18 19:15	0°♈
morning max el	13753 Aug 16 00:05	19°♍57'43 46°57'21		desc. node	13756 Jan 23 09:32	5°♈36'21

	13756 Feb 12 11:33	0°Υ			13758 Oct 28 07:19	0°ℓ		
	13756 Mar 08 08:51	0°Ϡ		asc. node	13758 Oct 31 09:32	3°ℓ49'12		
	13756 Apr 02 12:36	0°Π			13758 Nov 21 13:40	0°Ϡ		
	13756 Apr 28 04:35	0°Ϣ		morning set	13758 Dec 04 13:59	16°Ϡ06'13		
asc. node	13756 May 15 04:54	19°Ϣ14'22			13758 Dec 15 19:26	0°Ϡ		
	13756 May 25 01:25	0°Ω			13759 Jan 09 01:36	0°≈		
evening max el	13756 Jun 08 01:15	14°Ω31'04	46°39'15					
	13756 Jun 24 17:50	0°ϯ		superior conj	13759 Jan 10 11:45	1°≈45'29	1°18'14	
greatest brilliancy	13756 Jul 18 08:20	14°ϯ59'47	-4.9m	minimum elong	13759 Jan 10 19:20	2°≈08'52	1°19'02	
retrograde	13756 Jul 28 05:05	16°ϯ50'03		max. Earth dist.	13759 Jan 12 00:40	3°≈39'30	1.73081 AU	
evening set	13756 Aug 12 15:09	12°ϯ12'00			13759 Feb 02 09:06	0°Ϡ		
inferior conj	13756 Aug 17 21:33	9°ϯ05'31	4°22'51	evening rise	13759 Feb 16 23:55	17°Ϡ59'51		
minimum elong	13756 Aug 18 06:46	8°ϯ51'28	4°19'43	desc. node	13759 Feb 19 23:31	21°Ϡ40'03		
min. Earth dist.	13756 Aug 18 05:33	8°ϯ53'19	0.26963 AU		13759 Feb 26 18:10	0°Υ		
morning rise	13756 Aug 23 22:15	5°ϯ33'26			13759 Mar 23 04:12	0°Ϡ		
desc. node	13756 Sep 04 07:50	1°ϯ32'11			13759 Apr 16 14:45	0°Π		
direct	13756 Sep 07 14:09	1°ϯ19'14			13759 May 11 02:34	0°Ϣ		
greatest brilliancy	13756 Sep 17 17:38	3°ϯ13'49	-4.9m		13759 Jun 04 18:32	0°Ω		
	13756 Oct 24 10:37	0°Ϣ		asc. node	13759 Jun 12 15:58	9°Ω30'59		
morning max el	13756 Oct 27 11:39	2°Ϣ57'04	46°26'44		13759 Jun 29 20:14	0°ϯ		
	13756 Nov 22 07:55	0°ℓ			13759 Jul 25 18:56	0°Ϣ		
	13756 Dec 18 21:37	0°Ϡ		evening max el	13759 Aug 20 15:31	27°Ϣ43'09	46°41'28	
asc. node	13756 Dec 26 08:58	8°Ϡ40'28			13759 Aug 22 22:33	0°ℓ		
	13757 Jan 13 11:24	0°Ϡ		greatest brilliancy	13759 Sep 28 20:20	27°ℓ52'26	-4.8m	
	13757 Feb 07 11:52	0°≈		desc. node	13759 Oct 02 16:45	29°ℓ08'21		
	13757 Mar 04 04:21	0°Ϡ			13759 Oct 07 08:57	0°Ϡ		
	13757 Mar 28 15:43	0°Υ		retrograde	13759 Oct 09 21:39	0°Ϡ07'32		
desc. node	13757 Apr 17 02:43	24°Υ00'06			13759 Oct 12 09:37	30°ℓ16'01		
	13757 Apr 21 23:04	0°Ϡ		evening set	13759 Oct 25 16:46	25°ℓ16'01		
morning set	13757 Apr 25 11:08	4°Ϡ20'19		min. Earth dist.	13759 Oct 30 03:14	22°ℓ37'05	0.27902 AU	
	13757 May 16 02:44	0°Π		inferior conj	13759 Oct 31 00:55	22°ℓ03'38	-6°27'01	
max. Earth dist.	13757 Jun 01 07:22	20°Π12'17	1.71822 AU	minimum elong	13759 Oct 30 14:15	22°ℓ20'06	6°23'56	
				morning rise	13759 Nov 04 12:18	19°ℓ22'16		
superior conj	13757 Jun 04 04:03	23°Π47'00	-1°25'04	direct	13759 Nov 21 02:20	14°ℓ10'12		
minimum elong	13757 Jun 03 22:47	23°Π30'30	1°26'02	greatest brilliancy	13759 Nov 30 12:24	15°ℓ47'49	-4.8m	
	13757 Jun 09 03:19	0°Ϣ			13759 Dec 23 23:41	0°Ϡ		
	13757 Jul 03 02:06	0°Ω		morning max el	13760 Jan 09 01:46	14°Ϡ22'57	45°47'34	
evening rise	13757 Jul 14 03:17	13°Ω50'57		asc. node	13760 Jan 23 19:30	29°Ϡ15'15		
	13757 Jul 27 00:49	0°ϯ			13760 Jan 24 12:32	0°Ϡ		
asc. node	13757 Aug 07 16:12	14°ϯ33'36			13760 Feb 20 18:43	0°≈		
	13757 Aug 20 01:09	0°Ϣ			13760 Mar 17 13:46	0°Ϡ		
	13757 Sep 13 04:54	0°ℓ			13760 Apr 11 15:28	0°Υ		
	13757 Oct 07 14:40	0°Ϡ			13760 May 06 06:46	0°Ϡ		
desc. node	13757 Nov 01 10:59	0°Ϡ		desc. node	13760 May 14 16:36	10°Ϡ19'48		
	13757 Nov 27 10:34	0°≈25'38			13760 May 30 14:46	0°Π		
	13757 Nov 27 01:37	0°≈			13760 Jun 23 17:25	0°Ϣ		
	13757 Dec 24 02:13	0°Ϡ		morning set	13760 Jul 09 01:26	19°Ϣ10'46		
evening max el	13758 Jan 12 09:02	19°Ϡ38'40	45°55'33		13760 Jul 17 16:43	0°Ω		
	13758 Jan 23 16:25	0°Υ			13760 Aug 10 14:45	0°ϯ		
greatest brilliancy	13758 Feb 20 08:34	18°Υ02'07	-4.8m					
retrograde	13758 Mar 02 09:05	19°Υ52'11		superior conj	13760 Aug 17 20:45	9°ϯ05'26	-0°40'55	
evening set	13758 Mar 17 04:35	15°Υ33'57		minimum elong	13760 Aug 18 06:13	9°ϯ35'05	0°40'58	
asc. node	13758 Mar 20 11:59	13°Υ39'01		max. Earth dist.	13760 Aug 18 21:22	10°ϯ22'35	1.71507 AU	
inferior conj	13758 Mar 23 12:39	11°Υ46'35	0°45'22		13760 Sep 03 13:13	0°Ϣ		
minimum elong	13758 Mar 23 10:56	11°Υ49'16	0°44'43	asc. node	13760 Sep 04 06:34	0°Ϣ54'18		
min. Earth dist.	13758 Mar 23 17:21	11°Υ39'15	0.28209 AU	evening rise	13760 Sep 26 09:03	28°Ϣ32'06		
morning rise	13758 Mar 29 17:01	8°Υ03'57			13760 Sep 27 13:14	0°ℓ		
direct	13758 Apr 13 17:27	3°Υ37'13			13760 Oct 21 15:56	0°Ϡ		
greatest brilliancy	13758 Apr 24 08:12	5°Υ43'07	-4.8m		13760 Nov 14 23:09	0°Ϡ		
	13758 May 27 22:50	0°Ϡ			13760 Dec 09 13:32	0°≈		
morning max el	13758 Jun 02 17:38	5°Ϡ37'40	46°33'45	desc. node	13760 Dec 24 22:22	18°≈29'26		
	13758 Jun 25 17:30	0°Π			13761 Jan 03 14:12	0°Ϡ		
desc. node	13758 Jul 10 14:46	16°Π52'52			13761 Jan 29 04:59	0°Υ		
	13758 Jul 21 20:36	0°Ϣ			13761 Feb 24 18:06	0°Ϡ		
	13758 Aug 15 22:50	0°Ω		evening max el	13761 Mar 24 18:58	29°Ϡ23'45	46°09'32	
	13758 Sep 09 13:46	0°ϯ			13761 Mar 25 09:49	0°Π		
	13758 Oct 03 23:41	0°Ϣ		asc. node	13761 Apr 16 21:10	19°Π33'01		



greatest brilliancy	13761 May 03 16:22	28° $\Pi$ 57'27	-4.8m		13763 Sep 19 04:23	0° $\Omega$	
	13761 May 07 07:44	0° $\Theta$		morning set	13763 Sep 21 23:23	3° $\Omega$ 29'02	
retrograde	13761 May 13 07:24	0° $\Theta$ 41'17		asc. node	13763 Oct 02 21:11	17° $\Omega$ 05'45	
	13761 May 19 03:24	30° $\kappa$ $\Pi$			13763 Oct 13 05:34	0° $\mathbb{M}$	
evening set	13761 May 30 22:02	24° $\Pi$ 46'16					
inferior conj	13761 Jun 03 03:20	22° $\Pi$ 47'17	8°51'47	superior conj	13763 Oct 30 16:47	21° $\mathbb{M}$ 45'52	1°01'01
minimum elong	13761 Jun 02 21:46	22° $\Pi$ 55'59	8°50'18	minimum elong	13763 Oct 30 06:26	21° $\mathbb{M}$ 13'39	1°01'24
min. Earth dist.	13761 Jun 03 08:00	22° $\Pi$ 40'01	0.27668 AU	max. Earth dist.	13763 Nov 01 17:40	24° $\mathbb{M}$ 17'58	1.72305 AU
morning rise	13761 Jun 05 21:25	21° $\Pi$ 05'00			13763 Nov 06 07:37	0° $\propto$	
direct	13761 Jun 24 01:46	14° $\Pi$ 46'29			13763 Nov 30 11:32	0° $\Xi$	
greatest brilliancy	13761 Jul 04 01:07	16° $\Pi$ 38'37	-4.9m	evening rise	13763 Dec 07 00:19	8° $\Xi$ 05'04	
	13761 Jul 25 12:42	0° $\Theta$			13763 Dec 24 18:41	0° $\approx$	
desc. node	13761 Aug 07 00:39	11° $\Theta$ 09'21			13764 Jan 18 06:20	0° $\mathcal{H}$	
morning max el	13761 Aug 13 12:55	17° $\Theta$ 32'55	46°57'28	desc. node	13764 Jan 22 11:18	5° $\mathcal{H}$ 07'48	
	13761 Aug 25 12:02	0° $\Omega$			13764 Feb 11 23:01	0° $\Upsilon$	
	13761 Sep 21 08:22	0° $\mathbb{M}$			13764 Mar 07 20:56	0° $\mathcal{B}$	
	13761 Oct 16 23:03	0° $\Omega$			13764 Apr 02 01:41	0° $\Pi$	
	13761 Nov 11 00:51	0° $\mathbb{M}$			13764 Apr 27 19:29	0° $\Theta$	
asc. node	13761 Nov 27 22:55	20° $\mathbb{M}$ 27'40		asc. node	13764 May 14 06:57	18° $\Theta$ 33'06	
	13761 Dec 05 19:19	0° $\propto$			13764 May 24 20:21	0° $\Omega$	
	13761 Dec 30 08:47	0° $\Xi$		evening max el	13764 Jun 05 15:00	12° $\Omega$ 08'53	46°38'40
	13762 Jan 23 19:03	0° $\approx$			13764 Jun 25 05:04	0° $\mathbb{M}$	
morning set	13762 Feb 11 11:12	22° $\approx$ 59'35		greatest brilliancy	13764 Jul 15 21:45	12° $\mathbb{M}$ 35'26	-4.9m
	13762 Feb 17 03:37	0° $\mathcal{H}$		retrograde	13764 Jul 25 18:44	14° $\mathbb{M}$ 25'46	
	13762 Mar 13 11:12	0° $\Upsilon$		evening set	13764 Aug 10 07:05	9° $\mathbb{M}$ 43'18	
max. Earth dist.	13762 Mar 19 09:28	7° $\Upsilon$ 19'22	1.72904 AU	inferior conj	13764 Aug 15 10:25	6° $\mathbb{M}$ 41'01	4°44'03
desc. node	13762 Mar 19 14:03	7° $\Upsilon$ 33'31		minimum elong	13764 Aug 15 20:10	6° $\mathbb{M}$ 26'11	4°40'47
				min. Earth dist.	13764 Aug 15 19:02	6° $\mathbb{M}$ 27'54	0.26970 AU
superior conj	13762 Mar 21 03:19	9° $\Upsilon$ 28'40	-0°03'48	morning rise	13764 Aug 21 09:09	3° $\mathbb{M}$ 11'54	
minimum elong	13762 Mar 21 02:25	9° $\Upsilon$ 25'51	0°03'48		13764 Aug 28 20:00	30° $\kappa$ $\Omega$	
behind sun begin	13762 Mar 20 03:04	8° $\Upsilon$ 13'43		desc. node	13764 Sep 03 09:41	28° $\Omega$ 58'08	
behind sun end	13762 Mar 22 01:46	10° $\Upsilon$ 38'00		direct	13764 Sep 05 03:30	28° $\Omega$ 54'26	
	13762 Apr 06 17:33	0° $\mathcal{B}$			13764 Sep 12 17:05	0° $\mathbb{M}$	
evening rise	13762 Apr 28 15:42	27° $\mathcal{B}$ 11'00		greatest brilliancy	13764 Sep 15 06:29	0° $\mathbb{M}$ 49'15	-4.9m
	13762 Apr 30 22:09	0° $\Pi$			13764 Oct 24 10:31	0° $\Omega$	
	13762 May 25 01:11	0° $\Theta$		morning max el	13764 Oct 25 02:34	0° $\Omega$ 39'17	46°28'14
	13762 Jun 18 04:03	0° $\Omega$			13764 Nov 22 00:20	0° $\mathbb{M}$	
asc. node	13762 Jul 10 04:25	27° $\Omega$ 17'29			13764 Dec 18 11:19	0° $\propto$	
	13762 Jul 12 09:00	0° $\mathbb{M}$		asc. node	13764 Dec 25 10:51	8° $\propto$ 07'19	
	13762 Aug 05 19:00	0° $\Omega$			13765 Jan 12 23:47	0° $\Xi$	
	13762 Aug 30 14:33	0° $\mathbb{M}$			13765 Feb 06 23:32	0° $\approx$	
	13762 Sep 25 04:48	0° $\propto$			13765 Mar 03 15:36	0° $\mathcal{H}$	
	13762 Oct 22 13:10	0° $\Xi$			13765 Mar 28 02:43	0° $\Upsilon$	
desc. node	13762 Oct 30 02:13	7° $\Xi$ 38'17		desc. node	13765 Apr 16 04:35	23° $\Upsilon$ 32'11	
evening max el	13762 Oct 30 20:56	8° $\Xi$ 24'22	46°14'07		13765 Apr 21 09:57	0° $\mathcal{B}$	
	13762 Nov 25 01:59	0° $\approx$		morning set	13765 Apr 23 00:37	1° $\mathcal{B}$ 59'41	
greatest brilliancy	13762 Dec 09 06:48	7° $\approx$ 36'25	-4.8m		13765 May 15 13:37	0° $\Pi$	
retrograde	13762 Dec 19 09:17	9° $\approx$ 28'42		max. Earth dist.	13765 May 29 19:27	17° $\Pi$ 46'02	1.71855 AU
evening set	13763 Jan 06 08:27	3° $\approx$ 25'16					
inferior conj	13763 Jan 09 21:35	1° $\approx$ 13'28	-8°02'16	superior conj	13765 Jun 01 16:30	21° $\Pi$ 21'46	-1°24'07
minimum elong	13763 Jan 10 05:32	1° $\approx$ 00'59	8°00'19	minimum elong	13765 Jun 01 10:21	21° $\Pi$ 02'31	1°25'02
min. Earth dist.	13763 Jan 10 00:58	1° $\approx$ 08'10	0.28863 AU		13765 Jun 08 14:14	0° $\Theta$	
	13763 Jan 11 20:34	30° $\kappa$ $\Xi$			13765 Jul 02 13:05	0° $\Omega$	
morning rise	13763 Jan 14 02:37	28° $\Xi$ 37'48		evening rise	13765 Jul 11 14:47	11° $\Omega$ 22'09	
direct	13763 Jan 31 05:49	23° $\Xi$ 01'24			13765 Jul 26 11:52	0° $\mathbb{M}$	
greatest brilliancy	13763 Feb 10 20:28	25° $\Xi$ 03'51	-4.7m	asc. node	13765 Aug 06 17:57	14° $\mathbb{M}$ 04'22	
asc. node	13763 Feb 20 04:54	29° $\Xi$ 40'02			13765 Aug 19 12:19	0° $\Omega$	
	13763 Feb 20 17:59	0° $\approx$			13765 Sep 12 16:17	0° $\mathbb{M}$	
morning max el	13763 Mar 21 09:31	23° $\approx$ 41'26	45°51'17		13765 Oct 07 02:28	0° $\propto$	
	13763 Mar 27 17:12	0° $\mathcal{H}$			13765 Oct 31 23:32	0° $\Xi$	
	13763 Apr 24 11:10	0° $\Upsilon$		desc. node	13765 Nov 26 12:32	29° $\Xi$ 51'09	
	13763 May 20 08:25	0° $\mathcal{B}$			13765 Nov 26 15:38	0° $\approx$	
desc. node	13763 Jun 12 05:22	27° $\mathcal{B}$ 24'51			13765 Dec 23 19:36	0° $\mathcal{H}$	
	13763 Jun 14 08:32	0° $\Pi$		evening max el	13766 Jan 10 01:14	17° $\mathcal{H}$ 28'04	45°55'35
	13763 Jul 08 20:32	0° $\Theta$			13766 Jan 23 22:18	0° $\Upsilon$	
	13763 Aug 02 01:37	0° $\Omega$		greatest brilliancy	13766 Feb 17 23:41	15° $\Upsilon$ 48'19	-4.8m
	13763 Aug 26 03:27	0° $\mathbb{M}$		retrograde	13766 Feb 28 00:13	17° $\Upsilon$ 37'54	




































































































































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asc. node	13766 Mar 19 14:00	10°♈31'22			13768 Sep 03 00:07	0°♊	
inferior conj	13766 Mar 21 03:58	9°♈32'04	0°23'41	evening rise	13768 Sep 23 22:52	26°♊11'18	
minimum elong	13766 Mar 21 03:04	9°♈33'29	0°23'20		13768 Sep 27 00:10	0°♊	
min. Earth dist.	13766 Mar 21 08:54	9°♈24'20	0.28232 AU		13768 Oct 21 02:56	0°♊	
morning rise	13766 Mar 27 09:28	5°♈47'44			13768 Nov 14 10:20	0°♊	
direct	13766 Apr 11 09:32	1°♈22'46			13768 Dec 09 01:05	0°♊	
greatest brilliancy	13766 Apr 21 23:46	3°♈28'13	-4.8m	desc. node	13768 Dec 24 00:13	17°♊59'21	
	13766 May 27 22:50	0°♈			13769 Jan 03 02:25	0°♈	
morning max el	13766 May 31 08:25	3°♈20'17	46°32'05		13769 Jan 28 18:29	0°♈	
	13766 Jun 25 09:57	0°♈			13769 Feb 24 10:14	0°♈	
desc. node	13766 Jul 09 16:39	16°♈15'36		evening max el	13769 Mar 22 07:56	27°♈02'29	46°08'31
	13766 Jul 21 10:31	0°♈			13769 Mar 25 09:20	0°♈	
	13766 Aug 15 11:33	0°♈		asc. node	13769 Apr 15 23:15	18°♈18'11	
	13766 Sep 09 01:45	0°♈		greatest brilliancy	13769 May 01 05:49	26°♈36'34	-4.8m
	13766 Oct 03 11:10	0°♈		retrograde	13769 May 10 20:49	28°♈20'44	
	13766 Oct 27 18:26	0°♈		evening set	13769 May 28 08:01	22°♈30'59	
asc. node	13766 Oct 30 11:31	3°♈21'05		inferior conj	13769 May 31 17:17	20°♈26'14	8°45'09
	13766 Nov 21 00:33	0°♈		minimum elong	13769 May 31 10:55	20°♈36'09	8°43'32
morning set	13766 Dec 02 06:24	13°♈55'06		min. Earth dist.	13769 May 31 21:38	20°♈19'28	0.27692 AU
	13766 Dec 15 06:11	0°♈		morning rise	13769 Jun 03 13:43	18°♈40'24	
				direct	13769 Jun 21 15:16	12°♈24'47	
superior conj	13767 Jan 08 04:49	29°♈36'50	1°19'35	greatest brilliancy	13769 Jul 01 15:56	14°♈17'53	-4.9m
minimum elong	13767 Jan 08 11:51	29°♈58'36	1°20'24		13769 Jul 25 22:26	0°♈	
	13767 Jan 08 12:19	0°♈		desc. node	13769 Aug 06 02:36	10°♈13'50	
max. Earth dist.	13767 Jan 09 19:54	1°♈37'34	1.73068 AU	morning max el	13769 Aug 11 02:27	15°♈09'40	46°57'35
	13767 Feb 01 19:51	0°♈			13769 Aug 25 06:43	0°♈	
evening rise	13767 Feb 14 16:03	15°♈48'27			13769 Sep 20 23:13	0°♈	
desc. node	13767 Feb 19 01:20	21°♈12'14			13769 Oct 16 12:11	0°♈	
	13767 Feb 26 05:03	0°♈			13769 Nov 10 12:59	0°♈	
	13767 Mar 22 15:19	0°♈		asc. node	13769 Nov 27 00:42	19°♈57'46	
	13767 Apr 16 02:12	0°♈			13769 Dec 05 06:47	0°♈	
	13767 May 10 14:30	0°♈			13769 Dec 29 19:50	0°♈	
	13767 Jun 04 07:13	0°♈			13770 Jan 23 05:50	0°♈	
asc. node	13767 Jun 11 17:53	8°♈57'35		morning set	13770 Feb 09 04:12	20°♈51'07	
	13767 Jun 29 10:13	0°♈			13770 Feb 16 14:17	0°♈	
	13767 Jul 25 11:31	0°♈			13770 Mar 12 21:50	0°♈	
evening max el	13767 Aug 18 06:08	25°♈22'58	46°41'57	max. Earth dist.	13770 Mar 17 05:04	5°♈18'46	1.72932 AU
	13767 Aug 22 22:29	0°♈					
greatest brilliancy	13767 Sep 26 11:53	25°♈34'23	-4.8m	superior conj	13770 Mar 18 18:41	7°♈15'00	-0°00'17
desc. node	13767 Oct 01 18:53	27°♈10'49		minimum elong	13770 Mar 18 18:37	7°♈14'45	0°00'18
retrograde	13767 Oct 07 12:04	27°♈48'27		behind sun begin	13770 Mar 17 18:52	6°♈01'23	
evening set	13767 Oct 23 04:06	23°♈02'19		behind sun end	13770 Mar 19 18:21	8°♈28'08	
min. Earth dist.	13767 Oct 27 17:51	20°♈18'43	0.27840 AU	desc. node	13770 Mar 18 15:58	7°♈06'35	
inferior conj	13767 Oct 28 15:12	19°♈45'45	-6°11'28		13770 Apr 06 04:14	0°♈	
minimum elong	13767 Oct 28 04:33	20°♈02'12	6°08'19	evening rise	13770 Apr 26 06:12	24°♈53'34	
morning rise	13767 Nov 02 05:34	16°♈59'58			13770 Apr 30 08:57	0°♈	
direct	13767 Nov 18 16:10	11°♈53'19			13770 May 24 12:11	0°♈	
greatest brilliancy	13767 Nov 28 02:07	13°♈30'33	-4.8m		13770 Jun 17 15:18	0°♈	
	13767 Dec 24 07:47	0°♈		asc. node	13770 Jul 09 06:11	26°♈47'13	
morning max el	13768 Jan 06 14:44	12°♈03'52	45°48'21		13770 Jul 11 20:37	0°♈	
asc. node	13768 Jan 22 21:25	28°♈33'01			13770 Aug 05 07:09	0°♈	
	13768 Jan 24 06:18	0°♈			13770 Aug 30 03:38	0°♈	
	13768 Feb 20 08:50	0°♈			13770 Sep 24 19:43	0°♈	
	13768 Mar 17 02:21	0°♈			13770 Oct 22 08:44	0°♈	
	13768 Apr 11 03:17	0°♈		evening max el	13770 Oct 28 11:26	6°♈08'11	46°15'13
	13768 May 05 18:11	0°♈		desc. node	13770 Oct 29 04:13	6°♈49'19	
desc. node	13768 May 13 18:33	9°♈51'04			13770 Nov 26 02:08	0°♈	
	13768 May 30 01:56	0°♈		greatest brilliancy	13770 Dec 06 21:14	5°♈23'18	-4.8m
	13768 Jun 23 04:25	0°♈		retrograde	13770 Dec 17 01:26	7°♈17'13	
morning set	13768 Jul 06 13:06	16°♈42'45		evening set	13771 Jan 04 02:29	1°♈09'45	
	13768 Jul 17 03:38	0°♈			13771 Jan 05 23:58	30°♈	
	13768 Aug 10 01:39	0°♈		inferior conj	13771 Jan 07 13:17	29°♈01'41	-8°10'32
				minimum elong	13771 Jan 07 20:43	28°♈50'03	8°08'43
superior conj	13768 Aug 15 08:50	6°♈38'44	-0°44'16	min. Earth dist.	13771 Jan 07 15:38	28°♈58'00	0.28864 AU
minimum elong	13768 Aug 15 18:51	7°♈10'06	0°44'21	morning rise	13771 Jan 11 14:56	26°♈31'21	
max. Earth dist.	13768 Aug 16 04:11	7°♈39'21	1.71494 AU	direct	13771 Jan 28 21:20	20°♈49'47	

greatest brilliancy	13771 Feb 08 11:21	22° $\text{Z}$ 51'52	-4.7m	asc. node	13773 Aug 05 19:52	13° $\text{M}$ 36'32	
asc. node	13771 Feb 19 06:54	28° $\text{Z}$ 21'34			13773 Aug 18 23:13	0° $\text{L}$	
	13771 Feb 21 18:50	0° $\approx$			13773 Sep 12 03:27	0° $\text{M}$	
morning max el	13771 Mar 19 01:30	21° $\approx$ 30'02	45°50'31		13773 Oct 06 14:04	0° $\text{Z}$	
	13771 Mar 27 12:35	0° $\text{H}$			13773 Oct 31 11:53	0° $\text{Z}$	
	13771 Apr 24 01:51	0° $\text{Y}$		desc. node	13773 Nov 25 14:25	29° $\text{Z}$ 17'00	
	13771 May 19 21:16	0° $\text{B}$			13773 Nov 26 05:31	0° $\approx$	
desc. node	13771 Jun 11 07:11	26° $\text{B}$ 53'56			13773 Dec 23 13:04	0° $\text{H}$	
	13771 Jun 13 20:29	0° $\text{II}$		evening max el	13774 Jan 07 16:37	15° $\text{H}$ 16'18	45°55'39
	13771 Jul 08 08:00	0° $\text{E}$			13774 Jan 24 06:08	0° $\text{Y}$	
	13771 Aug 01 12:47	0° $\text{O}$		greatest brilliancy	13774 Feb 15 15:17	13° $\text{Y}$ 35'50	-4.8m
	13771 Aug 25 14:25	0° $\text{M}$		retrograde	13774 Feb 25 14:48	15° $\text{Y}$ 24'19	
	13771 Sep 18 15:10	0° $\text{L}$		evening set	13774 Mar 12 12:21	11° $\text{Y}$ 04'47	
morning set	13771 Sep 19 12:51	1° $\text{L}$ 07'40		inferior conj	13774 Mar 18 19:11	7° $\text{Y}$ 18'24	0°01'56
asc. node	13771 Oct 01 23:05	16° $\text{L}$ 38'17		minimum elong	13774 Mar 18 19:07	7° $\text{Y}$ 18'31	0°01'53
	13771 Oct 12 16:13	0° $\text{M}$		transit middle	13774 Mar 18 19:07	7° $\text{Y}$ 18'31	0°01'53
				transit begin	13774 Mar 18 15:06	7° $\text{Y}$ 24'49	
superior conj	13771 Oct 28 07:43	19° $\text{M}$ 29'54	0°58'28	transit end	13774 Mar 18 23:08	7° $\text{Y}$ 12'12	
minimum elong	13771 Oct 27 21:23	18° $\text{M}$ 57'41	0°58'49	asc. node	13774 Mar 18 16:06	7° $\text{Y}$ 23'14	
max. Earth dist.	13771 Oct 30 09:00	22° $\text{M}$ 03'20	1.72275 AU	min. Earth dist.	13774 Mar 19 00:43	7° $\text{Y}$ 09'43	0.28253 AU
	13771 Nov 05 18:13	0° $\text{Z}$		morning rise	13774 Mar 25 01:36	3° $\text{Y}$ 32'25	
	13771 Nov 29 22:09	0° $\text{Z}$			13774 Apr 02 13:24	30° $\text{R}$ $\text{H}$	
evening rise	13771 Dec 04 16:22	5° $\text{Z}$ 53'26		direct	13774 Apr 09 00:58	29° $\text{H}$ 09'03	
	13771 Dec 24 05:25	0° $\approx$			13774 Apr 15 16:51	0° $\text{Y}$	
	13772 Jan 17 17:17	0° $\text{H}$		greatest brilliancy	13774 Apr 19 15:34	1° $\text{Y}$ 14'24	-4.8m
desc. node	13772 Jan 21 13:09	4° $\text{H}$ 39'55			13774 May 27 21:20	0° $\text{B}$	
	13772 Feb 11 10:19	0° $\text{Y}$		morning max el	13774 May 28 22:22	1° $\text{B}$ 01'58	46°30'40
	13772 Mar 07 08:49	0° $\text{B}$			13774 Jun 25 01:38	0° $\text{II}$	
	13772 Apr 01 14:35	0° $\text{II}$		desc. node	13774 Jul 08 18:37	15° $\text{II}$ 40'15	
	13772 Apr 27 10:16	0° $\text{E}$			13774 Jul 20 23:51	0° $\text{E}$	
asc. node	13772 May 13 08:51	17° $\text{E}$ 51'49			13774 Aug 14 23:43	0° $\text{O}$	
	13772 May 24 15:32	0° $\text{O}$			13774 Sep 08 13:16	0° $\text{M}$	
evening max el	13772 Jun 03 05:15	9° $\text{O}$ 48'42	46°37'50		13774 Oct 02 22:15	0° $\text{L}$	
	13772 Jun 25 19:53	0° $\text{M}$			13774 Oct 27 05:14	0° $\text{M}$	
greatest brilliancy	13772 Jul 13 10:57	10° $\text{M}$ 11'07	-4.9m	asc. node	13774 Oct 29 13:17	2° $\text{M}$ 53'17	
retrograde	13772 Jul 23 08:05	12° $\text{M}$ 01'06			13774 Nov 20 11:08	0° $\text{Z}$	
evening set	13772 Aug 07 22:59	7° $\text{M}$ 14'20		morning set	13774 Nov 29 22:18	11° $\text{Z}$ 43'15	
inferior conj	13772 Aug 12 23:04	4° $\text{M}$ 16'15	5°04'49		13774 Dec 14 16:37	0° $\text{Z}$	
minimum elong	13772 Aug 13 09:16	4° $\text{M}$ 00'42	5°01'27				
min. Earth dist.	13772 Aug 13 08:08	4° $\text{M}$ 02'25	0.26982 AU	superior conj	13775 Jan 05 21:29	27° $\text{Z}$ 28'03	1°20'48
morning rise	13772 Aug 18 19:32	0° $\text{M}$ 50'17		minimum elong	13775 Jan 06 03:57	27° $\text{Z}$ 48'03	1°21'40
	13772 Aug 20 10:05	30° $\text{R}$ $\text{O}$		max. Earth dist.	13775 Jan 07 13:09	29° $\text{Z}$ 30'34	1.73050 AU
desc. node	13772 Sep 02 11:49	26° $\text{O}$ 29'34			13775 Jan 07 22:40	0° $\approx$	
direct	13772 Sep 02 16:53	26° $\text{O}$ 29'31			13775 Feb 01 06:16	0° $\text{H}$	
greatest brilliancy	13772 Sep 12 18:48	28° $\text{O}$ 23'50	-4.9m	evening rise	13775 Feb 12 07:51	13° $\text{H}$ 37'12	
	13772 Sep 16 14:59	0° $\text{M}$		desc. node	13775 Feb 18 03:13	20° $\text{H}$ 45'44	
morning max el	13772 Oct 22 16:58	28° $\text{M}$ 20'27	46°29'43		13775 Feb 25 15:37	0° $\text{Y}$	
	13772 Oct 24 09:15	0° $\text{L}$			13775 Mar 22 02:08	0° $\text{B}$	
	13772 Nov 21 16:15	0° $\text{M}$			13775 Apr 15 13:20	0° $\text{II}$	
	13772 Dec 18 00:41	0° $\text{Z}$			13775 May 10 02:07	0° $\text{E}$	
asc. node	13772 Dec 24 12:44	7° $\text{Z}$ 35'00			13775 Jun 03 19:33	0° $\text{O}$	
	13773 Jan 12 11:52	0° $\text{Z}$		asc. node	13775 Jun 10 19:44	8° $\text{O}$ 25'16	
	13773 Feb 06 10:54	0° $\approx$			13775 Jun 28 23:50	0° $\text{M}$	
	13773 Mar 03 02:33	0° $\text{H}$			13775 Jul 25 03:52	0° $\text{L}$	
	13773 Mar 27 13:25	0° $\text{Y}$		evening max el	13775 Aug 15 19:43	23° $\text{L}$ 01'41	46°42'21
desc. node	13773 Apr 15 06:29	23° $\text{Y}$ 05'16			13775 Aug 22 22:58	0° $\text{M}$	
morning set	13773 Apr 20 14:25	29° $\text{Y}$ 41'04		greatest brilliancy	13775 Sep 24 03:23	23° $\text{M}$ 17'16	-4.8m
	13773 Apr 20 20:32	0° $\text{B}$		desc. node	13775 Sep 30 20:50	25° $\text{M}$ 09'37	
	13773 May 15 00:09	0° $\text{II}$		retrograde	13775 Oct 05 02:08	25° $\text{M}$ 30'23	
max. Earth dist.	13773 May 27 06:38	15° $\text{II}$ 18'11	1.71887 AU	evening set	13775 Oct 20 15:25	20° $\text{M}$ 49'04	
				min. Earth dist.	13775 Oct 25 08:39	18° $\text{M}$ 00'44	0.27787 AU
superior conj	13773 May 30 05:17	18° $\text{II}$ 58'47	-1°23'00	inferior conj	13775 Oct 26 05:24	17° $\text{M}$ 28'43	-5°55'07
minimum elong	13773 May 29 22:19	18° $\text{II}$ 37'00	1°23'54	minimum elong	13775 Oct 25 18:49	17° $\text{M}$ 45'02	5°51'56
	13773 Jun 08 00:48	0° $\text{E}$		morning rise	13775 Oct 30 22:45	14° $\text{M}$ 38'34	
	13773 Jul 01 23:43	0° $\text{O}$		direct	13775 Nov 16 05:28	9° $\text{M}$ 36'55	
evening rise	13773 Jul 09 02:24	8° $\text{O}$ 54'45		greatest brilliancy	13775 Nov 25 16:28	11° $\text{M}$ 14'34	-4.8m
	13773 Jul 25 22:36	0° $\text{M}$			13775 Dec 24 13:10	0° $\text{Z}$	

morning max el	13776 Jan 04 03:40	9° $\text{♁}$ 45'20	45°49'12		13778 Jul 11 08:08	0° $\text{♁}$	
asc. node	13776 Jan 21 23:27	27° $\text{♁}$ 52'23			13778 Aug 04 19:13	0° $\text{♁}$	
	13776 Jan 23 23:22	0° $\text{♁}$			13778 Aug 29 16:36	0° $\text{♁}$	
	13776 Feb 19 22:30	0° $\text{♁}$			13778 Sep 24 10:33	0° $\text{♁}$	
	13776 Mar 16 14:32	0° $\text{♁}$			13778 Oct 22 04:34	0° $\text{♁}$	
	13776 Apr 10 14:44	0° $\text{♁}$		evening max el	13778 Oct 26 02:58	3° $\text{♁}$ 55'28	46°16'24
	13776 May 05 05:13	0° $\text{♁}$		desc. node	13778 Oct 28 06:06	6° $\text{♁}$ 00'12	
desc. node	13776 May 12 20:14	9° $\text{♁}$ 22'35			13778 Nov 27 11:16	0° $\text{♁}$	
	13776 May 29 12:44	0° $\text{♁}$		greatest brilliancy	13778 Dec 04 11:29	3° $\text{♁}$ 11'14	-4.8m
	13776 Jun 22 15:05	0° $\text{♁}$		retrograde	13778 Dec 14 17:53	5° $\text{♁}$ 06'53	
morning set	13776 Jul 04 00:50	14° $\text{♁}$ 16'00			13778 Dec 31 01:02	30° $\text{♁}$	
	13776 Jul 16 14:12	0° $\text{♁}$		evening set	13779 Jan 01 20:33	28° $\text{♁}$ 55'44	
	13776 Aug 09 12:09	0° $\text{♁}$		inferior conj	13779 Jan 05 05:10	26° $\text{♁}$ 50'59	-8°17'59
				minimum elong	13779 Jan 05 12:01	26° $\text{♁}$ 40'16	8°16'18
superior conj	13776 Aug 12 21:13	4° $\text{♁}$ 14'12	-0°47'31	min. Earth dist.	13779 Jan 05 06:08	26° $\text{♁}$ 49'29	0.28865 AU
minimum elong	13776 Aug 13 07:44	4° $\text{♁}$ 47'08	0°47'37	morning rise	13779 Jan 09 03:32	24° $\text{♁}$ 25'48	
max. Earth dist.	13776 Aug 13 10:49	4° $\text{♁}$ 56'49	1.71479 AU	direct	13779 Jan 26 13:34	18° $\text{♁}$ 39'22	
asc. node	13776 Sep 02 10:18	29° $\text{♁}$ 59'02		greatest brilliancy	13779 Feb 06 01:50	20° $\text{♁}$ 40'17	-4.7m
	13776 Sep 02 10:36	0° $\text{♁}$		asc. node	13779 Feb 18 08:57	27° $\text{♁}$ 06'18	
evening rise	13776 Sep 21 12:58	23° $\text{♁}$ 52'47			13779 Feb 22 12:41	0° $\text{♁}$	
	13776 Sep 26 10:41	0° $\text{♁}$		morning max el	13779 Mar 16 17:57	19° $\text{♁}$ 20'10	45°49'31
	13776 Oct 20 13:33	0° $\text{♁}$			13779 Mar 27 07:21	0° $\text{♁}$	
	13776 Nov 13 21:10	0° $\text{♁}$			13779 Apr 23 16:18	0° $\text{♁}$	
	13776 Dec 08 12:20	0° $\text{♁}$			13779 May 19 10:00	0° $\text{♁}$	
desc. node	13776 Dec 23 02:03	17° $\text{♁}$ 30'00		desc. node	13779 Jun 10 09:09	26° $\text{♁}$ 23'42	
	13777 Jan 02 14:26	0° $\text{♁}$			13779 Jun 13 08:22	0° $\text{♁}$	
	13777 Jan 28 07:52	0° $\text{♁}$			13779 Jul 07 19:24	0° $\text{♁}$	
	13777 Feb 24 02:25	0° $\text{♁}$			13779 Jul 31 23:54	0° $\text{♁}$	
evening max el	13777 Mar 19 21:24	24° $\text{♁}$ 43'22	46°07'40		13779 Aug 25 01:21	0° $\text{♁}$	
	13777 Mar 25 09:42	0° $\text{♁}$		morning set	13779 Sep 17 02:23	28° $\text{♁}$ 46'27	
asc. node	13777 Apr 15 01:08	17° $\text{♁}$ 01'21			13779 Sep 18 01:56	0° $\text{♁}$	
greatest brilliancy	13777 Apr 28 18:37	24° $\text{♁}$ 15'40	-4.8m	asc. node	13779 Oct 01 00:50	16° $\text{♁}$ 10'22	
retrograde	13777 May 08 10:34	26° $\text{♁}$ 00'50			13779 Oct 12 02:51	0° $\text{♁}$	
evening set	13777 May 25 17:42	20° $\text{♁}$ 16'22					
inferior conj	13777 May 29 07:07	18° $\text{♁}$ 05'38	8°37'34	superior conj	13779 Oct 25 22:47	17° $\text{♁}$ 14'21	0°55'50
minimum elong	13777 May 29 00:00	18° $\text{♁}$ 16'41	8°35'50	minimum elong	13779 Oct 25 12:32	16° $\text{♁}$ 42'24	0°56'08
min. Earth dist.	13777 May 29 10:53	17° $\text{♁}$ 59'46	0.27715 AU	max. Earth dist.	13779 Oct 28 01:48	19° $\text{♁}$ 53'15	1.72239 AU
morning rise	13777 Jun 01 06:12	16° $\text{♁}$ 15'54			13779 Nov 05 04:46	0° $\text{♁}$	
direct	13777 Jun 19 05:09	10° $\text{♁}$ 03'31			13779 Nov 29 08:42	0° $\text{♁}$	
greatest brilliancy	13777 Jun 29 06:18	11° $\text{♁}$ 57'19	-4.9m	evening rise	13779 Dec 02 08:42	3° $\text{♁}$ 42'50	
	13777 Jul 26 05:12	0° $\text{♁}$			13779 Dec 23 16:05	0° $\text{♁}$	
desc. node	13777 Aug 05 04:37	9° $\text{♁}$ 20'24			13780 Jan 17 04:11	0° $\text{♁}$	
morning max el	13777 Aug 08 17:04	12° $\text{♁}$ 50'00	46°57'50	desc. node	13780 Jan 20 15:07	4° $\text{♁}$ 12'32	
	13777 Aug 25 00:37	0° $\text{♁}$			13780 Feb 10 21:38	0° $\text{♁}$	
	13777 Sep 20 13:33	0° $\text{♁}$			13780 Mar 06 20:48	0° $\text{♁}$	
	13777 Oct 16 00:51	0° $\text{♁}$			13780 Apr 01 03:41	0° $\text{♁}$	
	13777 Nov 10 00:42	0° $\text{♁}$			13780 Apr 27 01:25	0° $\text{♁}$	
asc. node	13777 Nov 26 02:34	19° $\text{♁}$ 29'08		asc. node	13780 May 12 10:47	17° $\text{♁}$ 09'42	
	13777 Dec 04 17:54	0° $\text{♁}$			13780 May 24 11:30	0° $\text{♁}$	
	13777 Dec 29 06:35	0° $\text{♁}$		evening max el	13780 May 31 19:27	7° $\text{♁}$ 27'54	46°36'58
	13778 Jan 22 16:23	0° $\text{♁}$			13780 Jun 26 16:09	0° $\text{♁}$	
morning set	13778 Feb 06 21:06	18° $\text{♁}$ 42'58		greatest brilliancy	13780 Jul 11 00:38	7° $\text{♁}$ 46'59	-4.9m
	13778 Feb 16 00:45	0° $\text{♁}$		retrograde	13780 Jul 20 21:03	9° $\text{♁}$ 35'46	
	13778 Mar 12 08:18	0° $\text{♁}$		evening set	13780 Aug 05 14:59	4° $\text{♁}$ 44'49	
max. Earth dist.	13778 Mar 15 01:30	3° $\text{♁}$ 21'19	1.72957 AU	inferior conj	13780 Aug 10 11:42	1° $\text{♁}$ 51'01	5°24'55
				minimum elong	13780 Aug 10 22:15	1° $\text{♁}$ 34'52	5°21'32
superior conj	13778 Mar 16 09:49	5° $\text{♁}$ 01'07	0°03'15	min. Earth dist.	13780 Aug 10 21:23	1° $\text{♁}$ 36'11	0.26993 AU
minimum elong	13778 Mar 16 10:35	5° $\text{♁}$ 03'28	0°03'14		13780 Aug 13 13:09	30° $\text{♁}$	
behind sun begin	13778 Mar 15 11:08	3° $\text{♁}$ 51'04		morning rise	13780 Aug 16 05:33	28° $\text{♁}$ 28'17	
behind sun end	13778 Mar 17 10:01	6° $\text{♁}$ 15'53		direct	13780 Aug 31 06:01	24° $\text{♁}$ 04'07	
desc. node	13778 Mar 17 17:45	6° $\text{♁}$ 39'46		desc. node	13780 Sep 01 13:48	24° $\text{♁}$ 06'13	
	13778 Apr 05 14:46	0° $\text{♁}$		greatest brilliancy	13780 Sep 10 07:16	25° $\text{♁}$ 57'52	-4.9m
evening rise	13778 Apr 23 20:31	22° $\text{♁}$ 36'10			13780 Sep 18 17:47	0° $\text{♁}$	
	13778 Apr 29 19:36	0° $\text{♁}$		morning max el	13780 Oct 20 06:36	25° $\text{♁}$ 59'06	46°31'16
	13778 May 23 23:02	0° $\text{♁}$			13780 Oct 24 07:15	0° $\text{♁}$	
	13778 Jun 17 02:26	0° $\text{♁}$			13780 Nov 21 08:03	0° $\text{♁}$	
asc. node	13778 Jul 08 08:08	26° $\text{♁}$ 17'52			13780 Dec 17 14:02	0° $\text{♁}$	

asc. node	13780 Dec 23 14:44	7°♊02'54			13783 Jul 24 21:10	0°♊	
	13781 Jan 11 23:58	0°♊		evening max el	13783 Aug 13 08:54	20°♊37'36	46°42'50
	13781 Feb 05 22:18	0°♊			13783 Aug 23 01:36	0°♊	
	13781 Mar 02 13:34	0°♊		greatest brilliancy	13783 Sep 21 18:29	20°♊57'35	-4.8m
	13781 Mar 27 00:15	0°♊		desc. node	13783 Sep 29 22:44	23°♊01'33	
desc. node	13781 Apr 14 08:13	22°♊37'18		retrograde	13783 Oct 02 16:16	23°♊10'21	
morning set	13781 Apr 18 04:14	27°♊21'57		evening set	13783 Oct 18 02:42	18°♊33'15	
	13781 Apr 20 07:18	0°♊		min. Earth dist.	13783 Oct 22 23:18	15°♊40'38	0.27732 AU
	13781 May 14 10:56	0°♊		inferior conj	13783 Oct 23 19:25	15°♊09'38	-5°38'08
max. Earth dist.	13781 May 24 15:03	12°♊40'58	1.71924 AU	minimum elong	13783 Oct 23 09:00	15°♊25'42	5°34'54
				morning rise	13783 Oct 28 15:46	12°♊15'20	
superior conj	13781 May 27 17:56	16°♊34'40	-1°21'43	direct	13783 Nov 13 18:19	7°♊18'17	
minimum elong	13781 May 27 10:13	16°♊10'35	1°22'36	greatest brilliancy	13783 Nov 23 06:46	8°♊56'52	-4.8m
	13781 Jun 07 11:38	0°♊			13783 Dec 24 17:15	0°♊	
	13781 Jul 01 10:37	0°♊		morning max el	13784 Jan 01 17:23	7°♊27'20	45°50'14
evening rise	13781 Jul 06 13:41	6°♊25'28		asc. node	13784 Jan 21 01:25	27°♊10'52	
	13781 Jul 25 09:36	0°♊			13784 Jan 23 16:31	0°♊	
asc. node	13781 Aug 04 21:42	13°♊07'41			13784 Feb 19 12:26	0°♊	
	13781 Aug 18 10:24	0°♊			13784 Mar 16 03:01	0°♊	
	13781 Sep 11 14:55	0°♊			13784 Apr 10 02:28	0°♊	
	13781 Oct 06 01:59	0°♊			13784 May 04 16:34	0°♊	
	13781 Oct 31 00:36	0°♊		desc. node	13784 May 11 22:12	8°♊54'00	
desc. node	13781 Nov 24 16:23	28°♊42'09			13784 May 28 23:52	0°♊	
	13781 Nov 25 19:47	0°♊			13784 Jun 22 02:06	0°♊	
	13781 Dec 23 07:10	0°♊		morning set	13784 Jul 01 12:36	11°♊48'08	
evening max el	13782 Jan 05 07:21	13°♊02'32	45°55'53		13784 Jul 16 01:11	0°♊	
	13782 Jan 24 17:00	0°♊			13784 Aug 08 23:08	0°♊	
greatest brilliancy	13782 Feb 13 07:22	11°♊23'59	-4.8m				
retrograde	13782 Feb 23 05:25	13°♊11'23		superior conj	13784 Aug 10 09:14	1°♊46'56	-0°50'42
evening set	13782 Mar 10 04:43	8°♊50'30		minimum elong	13784 Aug 10 20:10	2°♊21'14	0°50'51
inferior conj	13782 Mar 16 10:44	5°♊05'17	-0°19'27	max. Earth dist.	13784 Aug 10 18:17	2°♊15'18	1.71474 AU
minimum elong	13782 Mar 16 11:28	5°♊04'07	0°19'13	asc. node	13784 Sep 01 12:02	29°♊30'03	
min. Earth dist.	13782 Mar 16 17:04	4°♊55'20	0.28278 AU		13784 Sep 01 21:36	0°♊	
asc. node	13782 Mar 17 17:57	4°♊16'20		evening rise	13784 Sep 19 02:31	21°♊30'53	
morning rise	13782 Mar 22 17:53	1°♊17'52			13784 Sep 25 21:42	0°♊	
	13782 Mar 25 06:17	30°♊			13784 Oct 20 00:40	0°♊	
direct	13782 Apr 06 16:15	26°♊55'37			13784 Nov 13 08:30	0°♊	
greatest brilliancy	13782 Apr 17 08:12	29°♊01'32	-4.8m		13784 Dec 08 00:06	0°♊	
	13782 Apr 19 17:02	0°♊		desc. node	13784 Dec 22 04:03	16°♊59'44	
morning max el	13782 May 26 12:16	28°♊42'39	46°29'00		13785 Jan 02 02:58	0°♊	
	13782 May 27 19:17	0°♊			13785 Jan 27 21:48	0°♊	
	13782 Jun 24 17:29	0°♊			13785 Feb 23 19:17	0°♊	
desc. node	13782 Jul 07 20:37	15°♊04'01		evening max el	13785 Mar 17 12:07	22°♊26'40	46°06'59
	13782 Jul 20 13:30	0°♊			13785 Mar 25 11:42	0°♊	
	13782 Aug 14 12:16	0°♊		asc. node	13785 Apr 14 03:09	15°♊41'50	
	13782 Sep 08 01:09	0°♊		greatest brilliancy	13785 Apr 26 07:08	21°♊54'25	-4.8m
	13782 Oct 02 09:42	0°♊		retrograde	13785 May 06 00:57	23°♊41'02	
	13782 Oct 26 16:23	0°♊		evening set	13785 May 23 03:37	18°♊02'01	
asc. node	13782 Oct 28 15:06	2°♊24'32		inferior conj	13785 May 26 21:12	15°♊45'06	8°29'14
	13782 Nov 19 22:04	0°♊		minimum elong	13785 May 26 13:25	15°♊57'12	8°27'20
morning set	13782 Nov 27 14:07	9°♊29'58		min. Earth dist.	13785 May 27 00:02	15°♊40'42	0.27737 AU
	13782 Dec 14 03:24	0°♊		morning rise	13785 May 29 23:08	13°♊51'14	
				direct	13785 Jun 16 19:48	7°♊42'37	
superior conj	13783 Jan 03 14:23	25°♊18'49	1°21'54	greatest brilliancy	13785 Jun 26 20:17	9°♊36'16	-4.9m
minimum elong	13783 Jan 03 20:16	25°♊37'02	1°22'49		13785 Jul 26 10:08	0°♊	
max. Earth dist.	13783 Jan 05 05:03	27°♊18'17	1.73030 AU	desc. node	13785 Aug 04 06:36	8°♊27'11	
	13783 Jan 07 09:24	0°♊		morning max el	13785 Aug 06 08:30	10°♊31'41	46°57'38
	13783 Jan 31 17:01	0°♊			13785 Aug 24 18:29	0°♊	
evening rise	13783 Feb 10 00:02	11°♊26'10			13785 Sep 20 04:12	0°♊	
desc. node	13783 Feb 17 05:01	20°♊17'55			13785 Oct 15 13:57	0°♊	
	13783 Feb 25 02:29	0°♊			13785 Nov 09 12:51	0°♊	
	13783 Mar 21 13:15	0°♊		asc. node	13785 Nov 25 04:34	18°♊59'35	
	13783 Apr 15 00:49	0°♊			13785 Dec 04 05:27	0°♊	
	13783 May 09 14:07	0°♊			13785 Dec 28 17:43	0°♊	
	13783 Jun 03 08:24	0°♊			13786 Jan 22 03:18	0°♊	
asc. node	13783 Jun 09 21:43	7°♊51'45		morning set	13786 Feb 04 13:55	16°♊33'31	
	13783 Jun 28 14:09	0°♊			13786 Feb 15 11:33	0°♊	

	13786 Mar 11 19:06	0°♈		evening set	13788 Aug 03 07:18	2°♏16'10	
max. Earth dist.	13786 Mar 12 21:35	1°♈21'47	1.72977 AU		13788 Aug 07 03:00	30°♏	
				inferior conj	13788 Aug 08 00:37	29°♏26'55	5°44'18
superior conj	13786 Mar 14 01:05	2°♈46'41	0°06'44	minimum elong	13788 Aug 08 11:26	29°♏10'19	5°40'54
minimum elong	13786 Mar 14 02:39	2°♈51'31	0°06'43	min. Earth dist.	13788 Aug 08 11:09	29°♏10'45	0.27002 AU
behind sun begin	13786 Mar 13 04:51	1°♈44'10		morning rise	13788 Aug 13 15:34	26°♏07'37	
behind sun end	13786 Mar 15 00:27	3°♈58'51		direct	13788 Aug 28 18:52	21°♏39'50	
desc. node	13786 Mar 16 19:31	6°♈11'51		desc. node	13788 Aug 31 15:40	21°♏49'32	
	13786 Apr 05 01:36	0°♉		greatest brilliancy	13788 Sep 07 20:24	23°♏33'29	-4.9m
evening rise	13786 Apr 21 11:08	20°♉18'53			13788 Sep 20 03:08	0°♏	
	13786 Apr 29 06:32	0°♊		morning max el	13788 Oct 17 19:29	23°♏36'13	46°32'40
	13786 May 23 10:07	0°♊			13788 Oct 24 04:15	0°♊	
	13786 Jun 16 13:47	0°♋			13788 Nov 20 23:30	0°♌	
asc. node	13786 Jul 07 10:02	25°♋47'42			13788 Dec 17 03:15	0°♍	
	13786 Jul 10 19:51	0°♌		asc. node	13788 Dec 22 16:37	6°♍30'35	
	13786 Aug 04 07:32	0°♌			13789 Jan 11 12:03	0°♎	
	13786 Aug 29 05:58	0°♌			13789 Feb 05 09:44	0°♏	
	13786 Sep 24 02:01	0°♍			13789 Mar 02 00:36	0°♐	
	13786 Oct 22 01:39	0°♎			13789 Mar 26 11:04	0°♑	
evening max el	13786 Oct 23 19:07	1°♎42'46	46°17'25	desc. node	13789 Apr 13 10:06	22°♑09'51	
desc. node	13786 Oct 27 08:10	5°♎09'12		morning set	13789 Apr 15 17:56	25°♑02'35	
	13786 Nov 29 15:34	0°♏			13789 Apr 19 18:01	0°♒	
greatest brilliancy	13786 Dec 02 01:55	0°♏57'35	-4.8m		13789 May 13 21:39	0°♓	
retrograde	13786 Dec 12 09:59	2°♏54'17		max. Earth dist.	13789 May 21 24:00	10°♓05'43	1.71963 AU
	13786 Dec 24 11:56	30°♒					
evening set	13786 Dec 30 14:13	26°♒40'07		superior conj	13789 May 25 06:38	14°♓11'01	-1°20'19
inferior conj	13787 Jan 02 20:47	24°♒38'21	-8°24'51	minimum elong	13789 May 24 22:13	13°♓44'47	1°21'08
minimum elong	13787 Jan 03 02:59	24°♒28'38	8°23'17		13789 Jun 06 22:23	0°♑	
min. Earth dist.	13787 Jan 02 20:20	24°♒39'02	0.28859 AU		13789 Jun 30 21:25	0°♒	
morning rise	13787 Jan 06 15:51	22°♒18'08		evening rise	13789 Jul 04 01:08	3°♒57'06	
direct	13787 Jan 24 05:41	16°♒27'18			13789 Jul 24 20:29	0°♒	
greatest brilliancy	13787 Feb 03 15:32	18°♒26'19	-4.7m	asc. node	13789 Aug 03 23:28	12°♒38'59	
asc. node	13787 Feb 17 10:52	25°♒51'49			13789 Aug 17 21:25	0°♓	
	13787 Feb 23 02:27	0°♑			13789 Sep 11 02:11	0°♌	
morning max el	13787 Mar 14 09:44	17°♑07'50	45°48'37		13789 Oct 05 13:42	0°♍	
	13787 Mar 27 01:54	0°♐			13789 Oct 30 13:09	0°♎	
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desc. node	13787 Jun 09 11:03	25°♒52'51			13789 Dec 23 01:39	0°♐	
	13787 Jun 12 20:20	0°♓		evening max el	13790 Jan 02 21:28	10°♐47'24	45°55'58
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morning set	13787 Sep 14 16:06	26°♒25'37		evening set	13790 Mar 07 21:00	6°♑35'31	
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asc. node	13787 Sep 30 02:40	15°♓42'22		minimum elong	13790 Mar 14 03:39	2°♑49'29	0°40'26
	13787 Oct 11 13:36	0°♌		min. Earth dist.	13790 Mar 14 09:21	2°♑40'32	0.28306 AU
				asc. node	13790 Mar 16 19:59	1°♑09'13	
superior conj	13787 Oct 23 13:40	14°♌57'42	0°53'06		13790 Mar 18 18:04	30°♒	
minimum elong	13787 Oct 23 03:34	14°♌26'15	0°53'20	morning rise	13790 Mar 20 09:50	29°♒03'28	
max. Earth dist.	13787 Oct 25 18:26	17°♌42'04	1.72210 AU	direct	13790 Apr 04 07:14	24°♒41'46	
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	13787 Nov 28 19:29	0°♎			13790 Apr 21 19:06	0°♑	
evening rise	13787 Nov 30 00:36	1°♎30'10		morning max el	13790 May 24 02:24	26°♑24'22	46°27'31
	13787 Dec 23 02:58	0°♏			13790 May 27 16:15	0°♒	
	13788 Jan 16 15:18	0°♐			13790 Jun 24 08:52	0°♓	
desc. node	13788 Jan 19 16:52	3°♐43'53		desc. node	13790 Jul 06 22:29	14°♓28'21	
	13788 Feb 10 09:10	0°♑			13790 Jul 20 02:47	0°♑	
	13788 Mar 06 09:01	0°♒			13790 Aug 14 00:29	0°♒	
	13788 Mar 31 17:02	0°♓			13790 Sep 07 12:43	0°♒	
	13788 Apr 26 16:54	0°♑			13790 Oct 01 20:50	0°♓	
asc. node	13788 May 11 12:50	16°♑27'15			13790 Oct 26 03:11	0°♌	
	13788 May 24 08:11	0°♒		asc. node	13790 Oct 27 17:04	1°♌57'12	
evening max el	13788 May 29 09:15	5°♒06'04	46°36'08		13790 Nov 19 08:39	0°♍	
	13788 Jun 27 19:44	0°♒		morning set	13790 Nov 25 06:06	7°♍18'14	
greatest brilliancy	13788 Jul 08 15:05	5°♒24'15	-4.9m		13790 Dec 13 13:51	0°♎	
retrograde	13788 Jul 18 09:45	7°♒11'18					






































































































































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minimum elong	13791 Jan 01 12:38	23°  27'06	1°23'49		13793 Jul 26 13:00	0° 	
max. Earth dist.	13791 Jan 02 21:37	25°  09'00	1.73018 AU	desc. node	13793 Aug 03 08:33	7°  35'41	
	13791 Jan 06 19:49	0° 		morning max el	13793 Aug 03 23:27	8°  13'04	46°57'30
	13791 Jan 31 03:30	0° 			13793 Aug 24 11:37	0° 	
evening rise	13791 Feb 07 16:12	9°  15'53			13793 Sep 19 18:15	0° 	
desc. node	13791 Feb 16 06:49	19°  50'54			13793 Oct 15 02:31	0° 	
	13791 Feb 24 13:09	0° 			13793 Nov 09 00:31	0° 	
	13791 Mar 21 00:10	0° 		asc. node	13793 Nov 24 06:21	18°  13'03'39	
	13791 Apr 14 12:05	0° 			13793 Dec 03 16:32	0° 	
	13791 May 09 01:54	0° 			13793 Dec 28 04:26	0° 	
	13791 Jun 02 21:02	0° 			13794 Jan 21 13:47	0° 	
asc. node	13791 Jun 08 23:36	7°  18'45		morning set	13794 Feb 02 07:08	14°  26'38	
	13791 Jun 28 04:17	0° 			13794 Feb 14 21:56	0° 	
	13791 Jul 24 14:29	0° 		max. Earth dist.	13794 Mar 10 17:07	29°  11'52	1.72998 AU
evening max el	13791 Aug 10 22:35	18°  15'56	46°43'23		13794 Mar 11 05:28	0° 	
	13791 Aug 23 05:22	0° 					
greatest brilliancy	13791 Sep 19 09:08	18°  13'26	-4.8m	superior conj	13794 Mar 11 16:44	0°  34'45	0°10'10
desc. node	13791 Sep 29 00:52	20°  14'46		minimum elong	13794 Mar 11 19:05	0°  42'00	0°10'08
retrograde	13791 Sep 30 06:53	20°  15'38		behind sun begin	13794 Mar 11 00:31	29°  11'44'42	
evening set	13791 Oct 15 14:11	16°  18'13		behind sun end	13794 Mar 12 13:38	1°  39'19	
min. Earth dist.	13791 Oct 20 13:46	13°  21'55	0.27676 AU	desc. node	13794 Mar 15 21:27	5°  45'42	
inferior conj	13791 Oct 21 09:27	12°  15'41	-5°20'23		13794 Apr 04 12:03	0° 	
minimum elong	13791 Oct 20 23:16	13°  16'07'21	5°17'09	evening rise	13794 Apr 19 01:54	18°  03'06	
morning rise	13791 Oct 26 08:48	9°  15'33'1			13794 Apr 28 17:08	0° 	
direct	13791 Nov 11 07:32	5°  16'00'47			13794 May 22 20:57	0° 	
greatest brilliancy	13791 Nov 20 20:49	6°  16'40'16	-4.8m		13794 Jun 16 00:54	0° 	
	13791 Dec 24 19:03	0° 		asc. node	13794 Jul 06 11:48	25°  17'54	
morning max el	13791 Dec 30 07:59	5°  12'55	45°51'15		13794 Jul 10 07:22	0° 	
asc. node	13792 Jan 20 03:19	26°  13'31'05			13794 Aug 03 19:39	0° 	
	13792 Jan 23 08:47	0° 			13794 Aug 28 19:07	0° 	
	13792 Feb 19 01:47	0° 			13794 Sep 23 17:20	0° 	
	13792 Mar 15 15:05	0° 		evening max el	13794 Oct 21 11:04	29°  11'30'33	46°18'28
	13792 Apr 09 13:53	0° 			13794 Oct 21 23:02	0° 	
	13792 May 04 03:37	0° 		desc. node	13794 Oct 26 10:08	4°  18'13	
desc. node	13792 May 11 00:07	8°  26'07		greatest brilliancy	13794 Nov 29 17:05	28°  14'46'10	-4.8m
	13792 May 28 10:41	0° 			13794 Dec 03 21:14	0° 	
	13792 Jun 21 12:47	0° 		retrograde	13794 Dec 10 01:49	0°  43'09	
morning set	13792 Jun 29 00:12	9°  20'49			13794 Dec 16 01:44	30°  16'33	
	13792 Jul 15 11:48	0° 		evening set	13794 Dec 28 07:53	24°  26'30	
				inferior conj	13794 Dec 31 12:34	22°  27'24	-8°31'00
superior conj	13792 Aug 07 21:05	29°  20'21	-0°53'49	minimum elong	13794 Dec 31 18:06	22°  18'42	8°29'32
minimum elong	13792 Aug 08 08:22	29°  21'55'44	0°53'59	min. Earth dist.	13794 Dec 31 10:57	22°  29'55	0.28848 AU
max. Earth dist.	13792 Aug 08 04:51	29°  24'42	1.71467 AU	morning rise	13795 Jan 04 04:27	20°  11'48	
	13792 Aug 08 09:44	0° 		direct	13795 Jan 21 21:44	14°  17'00	
asc. node	13792 Aug 31 13:54	29°  19'02'41		greatest brilliancy	13795 Feb 01 05:28	16°  14'00	-4.7m
	13792 Sep 01 08:12	0° 		asc. node	13795 Feb 16 12:54	24°  11'41'05	
evening rise	13792 Sep 16 16:05	19°  10'16			13795 Feb 23 11:59	0° 	
	13792 Sep 25 08:20	0° 		morning max el	13795 Mar 12 00:50	14°  22'55'09	45°47'49
	13792 Oct 19 11:23	0° 			13795 Mar 26 19:30	0° 	
	13792 Nov 12 19:26	0° 			13795 Apr 22 20:43	0° 	
	13792 Dec 07 11:28	0° 			13795 May 18 11:13	0° 	
desc. node	13792 Dec 21 05:53	16°  22'30'17		desc. node	13795 Jun 08 12:53	25°  14'22'45	
	13793 Jan 01 15:06	0° 			13795 Jun 12 07:59	0° 	
	13793 Jan 27 11:24	0° 			13795 Jul 06 18:08	0° 	
	13793 Feb 23 12:04	0° 			13795 Jul 30 22:06	0° 	
evening max el	13793 Mar 15 03:23	20°  12'23	46°06'00		13795 Aug 23 23:08	0° 	
	13793 Mar 25 14:52	0° 		morning set	13795 Sep 12 05:26	24°  19'04'04	
asc. node	13793 Apr 13 05:12	14°  12'20'18			13795 Sep 16 23:25	0° 	
greatest brilliancy	13793 Apr 23 19:31	19°  12'33'33	-4.8m	asc. node	13795 Sep 29 04:34	15°  15'15'15	
retrograde	13793 May 03 15:06	21°  12'21'13			13795 Oct 11 00:08	0° 	
evening set	13793 May 20 13:15	15°  12'48'04					
inferior conj	13793 May 24 11:03	13°  12'24'44	8°19'58	superior conj	13795 Oct 21 04:19	12°  14'41'05	0°50'14
minimum elong	13793 May 24 02:41	13°  12'37'45	8°17'54	minimum elong	13795 Oct 20 18:26	12°  10'20	0°50'28
min. Earth dist.	13793 May 24 13:00	13°  12'21'42	0.27757 AU	max. Earth dist.	13795 Oct 23 10:20	15°  12'29'23	1.72174 AU
morning rise	13793 May 27 16:02	11°  12'26'16			13795 Nov 04 01:59	0° 	
direct	13793 Jun 14 10:32	5°  12'22'04		evening rise	13795 Nov 27 16:32	29°  11'18'18	

	13795 Nov 28 06:00	0°☾	morning max el	13798 May 21 17:38	24°☿09'10	46°26'09
	13795 Dec 22 13:36	0°♊		13798 May 27 12:26	0°♋	
	13796 Jan 16 02:11	0°♌		13798 Jun 23 23:56	0°♍	
desc. node	13796 Jan 18 18:44	3°♌16'22	desc. node	13798 Jul 06 00:29	13°♍53'29	
	13796 Feb 09 20:27	0°♎		13798 Jul 19 15:54	0°♏	
	13796 Mar 05 20:59	0°♐		13798 Aug 13 12:37	0°♑	
	13796 Mar 31 06:10	0°♒		13798 Sep 07 00:17	0°♓	
	13796 Apr 26 08:18	0°♈		13798 Oct 01 08:02	0°♈	
asc. node	13796 May 10 14:43	15°♈44'39		13798 Oct 25 14:08	0°♉	
	13796 May 24 05:18	0°♊	asc. node	13798 Oct 26 18:49	1°♉28'49	
evening max el	13796 May 26 21:54	2°♊42'04 46°35'01		13798 Nov 18 19:23	0°♊	
	13796 Jun 29 11:08	0°♋	morning set	13798 Nov 22 21:44	5°♊04'44	
greatest brilliancy	13796 Jul 06 05:31	3°♋01'35 -4.9m		13798 Dec 13 00:27	0°♋	
retrograde	13796 Jul 15 21:49	4°♋46'51				
evening set	13796 Jul 31 23:31	29°♊47'02	superior conj	13798 Dec 30 00:05	21°♋01'26 1°23'44	
	13796 Jul 31 14:20	30°♋♊	minimum elong	13798 Dec 30 04:41	21°♋15'38 1°24'42	
inferior conj	13796 Aug 05 13:24	27°♊02'39 6°03'04	max. Earth dist.	13798 Dec 31 15:16	23°♋02'35 1.73000 AU	
minimum elong	13796 Aug 06 00:26	26°♊45'43 5°59'41		13799 Jan 06 06:22	0°♌	
min. Earth dist.	13796 Aug 06 01:04	26°♊44'45 0.27020 AU		13799 Jan 30 14:08	0°♌	
morning rise	13796 Aug 11 01:14	23°♊47'09	evening rise	13799 Feb 05 08:18	7°♌05'05	
direct	13796 Aug 26 07:15	19°♊14'57	desc. node	13799 Feb 15 08:44	19°♌23'52	
desc. node	13796 Aug 30 17:49	19°♊37'56		13799 Feb 23 23:56	0°♍	
greatest brilliancy	13796 Sep 05 10:07	21°♊09'24 -4.9m		13799 Mar 20 11:12	0°♎	
	13796 Sep 21 03:08	0°♎		13799 Apr 13 23:29	0°♏	
morning max el	13796 Oct 15 08:08	21°♎12'25 46°34'15		13799 May 08 13:51	0°♏	
	13796 Oct 24 00:33	0°♐		13799 Jun 02 09:50	0°♑	
	13796 Nov 20 14:39	0°♒	asc. node	13799 Jun 08 01:30	6°♑45'23	
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asc. node	13796 Dec 21 18:32	5°♈58'54		13799 Jul 24 08:14	0°♒	
	13797 Jan 10 23:55	0°♉	evening max el	13799 Aug 08 13:09	15°♒56'23 46°43'49	
	13797 Feb 04 20:57	0°♊		13799 Aug 23 11:09	0°♓	
	13797 Mar 01 11:27	0°♌	greatest brilliancy	13799 Sep 16 23:06	16°♓18'04 -4.8m	
	13797 Mar 25 21:43	0°♎	retrograde	13799 Sep 27 21:46	18°♓32'12	
desc. node	13797 Apr 12 11:59	21°♎42'55	desc. node	13799 Sep 28 02:48	18°♓32'08	
morning set	13797 Apr 13 08:10	22°♎45'20	evening set	13799 Oct 13 01:49	14°♓02'10	
	13797 Apr 19 04:36	0°♐	min. Earth dist.	13799 Oct 18 03:55	11°♓02'37 0.27627 AU	
	13797 May 13 08:13	0°♒	inferior conj	13799 Oct 18 23:24	10°♓32'46 -5°01'53	
max. Earth dist.	13797 May 19 11:56	7°♒40'20 1.72002 AU	minimum elong	13799 Oct 18 13:30	10°♓47'56 4°58'42	
			morning rise	13799 Oct 24 01:43	7°♓30'55	
superior conj	13797 May 22 19:49	11°♒49'29 -1°18'46	direct	13799 Nov 08 21:22	2°♓42'20	
minimum elong	13797 May 22 10:47	11°♒21'17 1°19'32	greatest brilliancy	13799 Nov 18 10:28	4°♓22'13 -4.8m	
	13797 Jun 06 08:59	0°♈		13799 Dec 24 19:56	0°♈	
	13797 Jun 30 08:06	0°♊	morning max el	13799 Dec 27 23:10	2°♈58'58 45°52'15	
evening rise	13797 Jul 01 12:59	1°♊30'26	asc. node	13800 Jan 19 05:21	25°♈51'07	
	13797 Jul 24 07:19	0°♋		13800 Jan 23 01:06	0°♉	
asc. node	13797 Aug 03 01:24	12°♋10'58		13800 Feb 18 15:19	0°♊	
	13797 Aug 17 08:28	0°♌		13800 Mar 16 03:21	0°♋	
	13797 Sep 10 13:32	0°♍		13800 Apr 10 01:29	0°♌	
	13797 Oct 05 01:32	0°♎		13800 May 04 14:50	0°♍	
	13797 Oct 30 01:50	0°♏	desc. node	13800 May 11 01:50	7°♍57'00	
desc. node	13797 Nov 22 20:14	27°♏32'30		13800 May 28 21:42	0°♐	
	13797 Nov 25 00:31	0°♑		13800 Jun 21 23:41	0°♑	
	13797 Dec 22 20:38	0°♒	morning set	13800 Jun 27 12:01	6°♑53'38	
evening max el	13797 Dec 31 11:34	8°♒32'27 45°56'20		13800 Jul 15 22:38	0°♒	
	13798 Jan 26 03:21	0°♓				
greatest brilliancy	13798 Feb 08 14:18	6°♓58'49 -4.8m	superior conj	13800 Aug 06 09:14	26°♓53'57 -0°56'47	
retrograde	13798 Feb 18 11:01	8°♓45'55	minimum elong	13800 Aug 06 20:45	27°♓30'06 0°57'00	
evening set	13798 Mar 05 13:35	4°♓20'44	max. Earth dist.	13800 Aug 06 17:11	27°♓18'55 1.71458 AU	
inferior conj	13798 Mar 11 17:35	0°♓38'57 -1°02'23		13800 Aug 08 20:32	0°♓	
minimum elong	13798 Mar 11 19:56	0°♓35'16 1°01'33	asc. node	13800 Aug 31 15:46	28°♓34'45	
min. Earth dist.	13798 Mar 12 01:28	0°♓26'35 0.28333 AU		13800 Sep 01 19:00	0°♈	
	13798 Mar 12 18:27	30°♓♈	evening rise	13800 Sep 15 05:53	16°♈49'43	
asc. node	13798 Mar 15 22:05	28°♈04'07		13800 Sep 25 19:11	0°♉	
morning rise	13798 Mar 18 01:47	26°♈50'01		13800 Oct 19 22:22	0°♊	
direct	13798 Apr 01 22:33	22°♈28'16		13800 Nov 13 06:41	0°♋	
greatest brilliancy	13798 Apr 12 18:04	24°♈37'08 -4.8m		13800 Dec 07 23:11	0°♌	
	13798 Apr 23 03:55	0°♎	desc. node	13800 Dec 21 07:46	15°♌59'51	



	13801 Jan 02 03:40	0° $\text{H}$			13803 Jul 31 09:24	0° $\Omega$		
	13801 Jan 28 01:31	0° $\Upsilon$			13803 Aug 24 10:15	0° $\text{M}$		
	13801 Feb 24 05:36	0° $\text{B}$		morning set	13803 Sep 10 18:40	21° $\text{M}$ 41'05		
evening max el	13801 Mar 13 18:53	17° $\text{B}$ 57'49	46°05'11		13803 Sep 17 10:24	0° $\Omega$		
	13801 Mar 26 20:14	0° $\Pi$		asc. node	13803 Sep 29 06:18	14° $\Omega$ 46'31		
asc. node	13801 Apr 13 07:06	12° $\Pi$ 55'08			13803 Oct 11 11:01	0° $\text{M}$		
greatest brilliancy	13801 Apr 22 08:34	17° $\Pi$ 13'07	-4.8m					
retrograde	13801 May 02 05:06	19° $\Pi$ 01'07		superior conj	13803 Oct 19 19:02	10° $\text{M}$ 23'33	0°47'18	
evening set	13801 May 18 23:12	13° $\Pi$ 34'08		minimum elong	13803 Oct 19 09:27	9° $\text{M}$ 53'44	0°47'29	
inferior conj	13801 May 23 01:10	11° $\Pi$ 04'19	8°09'54	max. Earth dist.	13803 Oct 21 23:51	13° $\text{M}$ 08'08	1.72136 AU	
minimum elong	13801 May 22 16:15	11° $\Pi$ 18'12	8°07'41		13803 Nov 04 12:49	0° $\text{A}$		
min. Earth dist.	13801 May 23 02:22	11° $\Pi$ 02'27	0.27773 AU	evening rise	13803 Nov 26 08:34	27° $\text{A}$ 05'46		
morning rise	13801 May 26 09:15	9° $\Pi$ 00'59			13803 Nov 28 16:51	0° $\text{B}$		
direct	13801 Jun 13 01:23	3° $\Pi$ 01'36			13803 Dec 23 00:34	0° $\approx$		
greatest brilliancy	13801 Jun 22 23:48	4° $\Pi$ 53'47	-4.9m		13804 Jan 16 13:24	0° $\text{H}$		
	13801 Jul 27 14:43	0° $\text{B}$		desc. node	13804 Jan 18 20:43	2° $\text{H}$ 48'10		
morning max el	13801 Aug 02 13:43	5° $\text{B}$ 51'57	46°57'15		13804 Feb 10 08:08	0° $\Upsilon$		
desc. node	13801 Aug 03 10:36	6° $\text{B}$ 44'37			13804 Mar 06 09:26	0° $\text{B}$		
	13801 Aug 25 04:40	0° $\Omega$			13804 Mar 31 19:53	0° $\Pi$		
	13801 Sep 20 08:26	0° $\text{M}$			13804 Apr 27 00:26	0° $\text{B}$		
	13801 Oct 15 15:16	0° $\Omega$		asc. node	13804 May 10 16:40	15° $\text{B}$ 00'20		
	13801 Nov 09 12:25	0° $\text{M}$			13804 May 25 03:46	0° $\Omega$		
asc. node	13801 Nov 24 08:14	18° $\text{M}$ 01'13		evening max el	13804 May 25 09:49	0° $\Omega$ 15'05	46°34'09	
	13801 Dec 04 03:53	0° $\text{A}$			13804 Jul 03 03:25	0° $\text{M}$		
	13801 Dec 28 15:28	0° $\text{B}$		greatest brilliancy	13804 Jul 04 19:44	0° $\text{M}$ 37'39	-4.9m	
	13802 Jan 22 00:39	0° $\approx$		retrograde	13804 Jul 14 10:05	2° $\text{M}$ 21'47		
morning set	13802 Feb 01 00:11	12° $\approx$ 18'00			13804 Jul 25 06:29	30° $\text{K}$ $\Omega$		
	13802 Feb 15 08:43	0° $\text{H}$		evening set	13804 Jul 30 15:49	27° $\Omega$ 16'44		
max. Earth dist.	13802 Mar 09 10:13	27° $\text{H}$ 13'15	1.73015 AU	inferior conj	13804 Aug 04 02:14	24° $\Omega$ 37'29	6°20'59	
				minimum elong	13804 Aug 04 13:23	24° $\Omega$ 20'23	6°17'39	
superior conj	13802 Mar 10 08:14	28° $\text{H}$ 21'11	0°13'36	min. Earth dist.	13804 Aug 04 14:53	24° $\Omega$ 18'05	0.27040 AU	
minimum elong	13802 Mar 10 11:21	28° $\text{H}$ 30'49	0°13'34	morning rise	13804 Aug 09 10:46	21° $\Omega$ 26'22		
behind sun begin	13802 Mar 09 22:42	27° $\text{H}$ 51'47		direct	13804 Aug 24 19:36	16° $\Omega$ 49'01		
behind sun end	13802 Mar 10 23:59	29° $\text{H}$ 09'51		desc. node	13804 Aug 30 19:47	17° $\Omega$ 30'38		
	13802 Mar 11 16:15	0° $\Upsilon$		greatest brilliancy	13804 Sep 03 23:59	18° $\Omega$ 44'44	-4.9m	
desc. node	13802 Mar 15 23:14	5° $\Upsilon$ 17'56			13804 Sep 22 21:17	0° $\text{M}$		
	13802 Apr 04 22:53	0° $\text{B}$		morning max el	13804 Oct 13 21:19	18° $\text{M}$ 48'57	46°35'47	
evening rise	13802 Apr 17 16:27	15° $\text{B}$ 45'41			13804 Oct 24 20:33	0° $\Omega$		
	13802 Apr 29 04:06	0° $\Pi$			13804 Nov 21 05:56	0° $\text{M}$		
	13802 May 23 08:08	0° $\text{B}$			13804 Dec 17 05:28	0° $\text{A}$		
	13802 Jun 16 12:23	0° $\Omega$		asc. node	13804 Dec 21 20:30	5° $\text{A}$ 26'36		
asc. node	13802 Jul 06 13:47	24° $\Omega$ 47'39			13805 Jan 11 12:02	0° $\text{B}$		
	13802 Jul 10 19:16	0° $\text{M}$			13805 Feb 05 08:25	0° $\approx$		
	13802 Aug 04 08:11	0° $\Omega$			13805 Mar 01 22:34	0° $\text{H}$		
	13802 Aug 29 08:46	0° $\text{M}$			13805 Mar 26 08:40	0° $\Upsilon$		
	13802 Sep 24 09:18	0° $\text{A}$		morning set	13805 Apr 11 22:17	20° $\Upsilon$ 26'51		
evening max el	13802 Oct 20 02:05	27° $\text{A}$ 14'52	46°19'29	desc. node	13805 Apr 12 13:44	21° $\Upsilon$ 14'35		
	13802 Oct 22 21:43	0° $\text{B}$			13805 Apr 19 15:29	0° $\text{B}$		
desc. node	13802 Oct 26 12:03	3° $\text{B}$ 25'04			13805 May 13 19:07	0° $\Pi$		
greatest brilliancy	13802 Nov 28 08:35	26° $\text{B}$ 33'57	-4.8m	max. Earth dist.	13805 May 18 01:15	5° $\Pi$ 18'13	1.72044 AU	
retrograde	13802 Dec 08 17:04	28° $\text{B}$ 30'53						
evening set	13802 Dec 27 01:11	22° $\text{B}$ 12'16		superior conj	13805 May 21 08:37	9° $\Pi$ 25'41	-1°17'03	
inferior conj	13802 Dec 30 04:19	20° $\text{B}$ 15'24	-8°36'16	minimum elong	13805 May 20 23:02	8° $\Pi$ 55'47	1°17'47	
minimum elong	13802 Dec 30 09:09	20° $\text{B}$ 07'49	8°34'55		13805 Jun 06 19:55	0° $\text{B}$		
min. Earth dist.	13802 Dec 30 01:49	20° $\text{B}$ 19'20	0.28838 AU	evening rise	13805 Jun 30 00:29	29° $\text{B}$ 01'44		
morning rise	13803 Jan 02 17:12	18° $\text{B}$ 04'07			13805 Jun 30 19:06	0° $\Omega$		
direct	13803 Jan 20 13:23	12° $\text{B}$ 05'31			13805 Jul 24 18:25	0° $\text{M}$		
greatest brilliancy	13803 Jan 30 19:57	14° $\text{B}$ 01'03	-4.7m	asc. node	13805 Aug 03 03:13	11° $\text{M}$ 41'48		
asc. node	13803 Feb 16 14:56	23° $\text{B}$ 31'07			13805 Aug 17 19:46	0° $\Omega$		
	13803 Feb 24 19:25	0° $\approx$			13805 Sep 11 01:09	0° $\text{M}$		
morning max el	13803 Mar 10 15:04	12° $\approx$ 38'53	45°47'00		13805 Oct 05 13:39	0° $\text{A}$		
	13803 Mar 27 13:12	0° $\text{H}$			13805 Oct 30 14:52	0° $\text{B}$		
	13803 Apr 23 10:57	0° $\Upsilon$		desc. node	13805 Nov 22 22:13	26° $\text{B}$ 56'40		
	13803 May 18 23:59	0° $\text{B}$			13805 Nov 25 15:25	0° $\approx$		
desc. node	13803 Jun 08 14:52	24° $\text{B}$ 52'01			13805 Dec 23 16:26	0° $\text{H}$		
	13803 Jun 12 19:59	0° $\Pi$		evening max el	13805 Dec 30 02:19	6° $\text{H}$ 18'33	45°56'47	
	13803 Jul 07 05:42	0° $\text{B}$			13806 Jan 28 06:43	0° $\Upsilon$		

greatest brilliancy	13806 Feb 07 04:58	4° $\Upsilon$ 45'16	-4.8m	superior conj	13808 Aug 03 21:03	24° $\Omega$ 26'41	-0°59'41
retrograde	13806 Feb 17 02:38	6° $\Upsilon$ 33'08		minimum elong	13808 Aug 04 08:43	25° $\Omega$ 03'18	0°59'57
evening set	13806 Mar 04 06:20	2° $\Upsilon$ 05'24		max. Earth dist.	13808 Aug 04 03:55	24° $\Omega$ 48'14	1.71453 AU
	13806 Mar 07 20:08	30° $\kappa$			13808 Aug 08 07:18	0° $\eta$	
inferior conj	13806 Mar 10 09:02	28° $\chi$ 25'29	-1°23'32	asc. node	13808 Aug 30 17:31	28° $\eta$ 06'30	
minimum elong	13806 Mar 10 12:10	28° $\chi$ 20'35	1°22'25		13808 Sep 01 05:46	0° $\Omega$	
min. Earth dist.	13806 Mar 10 17:10	28° $\chi$ 12'45	0.28362 AU	evening rise	13808 Sep 12 19:04	14° $\Omega$ 27'17	
asc. node	13806 Mar 15 23:55	25° $\chi$ 01'04			13808 Sep 25 05:58	0° $\mathbb{M}$	
morning rise	13806 Mar 16 17:33	24° $\chi$ 36'29			13808 Oct 19 09:15	0° $\mathcal{A}$	
direct	13806 Mar 31 14:18	20° $\chi$ 14'25			13808 Nov 12 17:49	0° $\mathcal{Z}$	
greatest brilliancy	13806 Apr 11 10:25	22° $\chi$ 24'15	-4.8m		13808 Dec 07 10:49	0° $\approx$	
	13806 Apr 25 03:31	0° $\Upsilon$		desc. node	13808 Dec 20 09:44	15° $\approx$ 30'04	
morning max el	13806 May 20 09:30	21° $\Upsilon$ 55'06	46°24'33		13809 Jan 01 16:10	0° $\chi$	
	13806 May 28 08:13	0° $\mathcal{B}$			13809 Jan 27 15:38	0° $\Upsilon$	
	13806 Jun 24 15:05	0° $\mathbb{I}$			13809 Feb 23 23:20	0° $\mathcal{B}$	
desc. node	13806 Jul 06 02:27	13° $\mathbb{I}$ 17'58		evening max el	13809 Mar 11 09:48	15° $\mathcal{B}$ 42'26	46°04'22
	13806 Jul 20 05:10	0° $\mathcal{E}$			13809 Mar 27 03:32	0° $\mathbb{I}$	
	13806 Aug 14 00:55	0° $\Omega$		asc. node	13809 Apr 12 09:07	11° $\mathbb{I}$ 27'58	
	13806 Sep 07 12:00	0° $\eta$		greatest brilliancy	13809 Apr 19 22:17	14° $\mathbb{I}$ 54'23	-4.8m
	13806 Oct 01 19:21	0° $\Omega$		retrograde	13809 Apr 29 18:43	16° $\mathbb{I}$ 42'05	
	13806 Oct 26 01:10	0° $\mathbb{M}$		evening set	13809 May 16 09:15	11° $\mathbb{I}$ 21'21	
asc. node	13806 Oct 26 20:39	1° $\mathbb{M}$ 00'23		inferior conj	13809 May 20 15:21	8° $\mathbb{I}$ 45'09	7°59'04
	13806 Nov 19 06:13	0° $\mathcal{A}$		minimum elong	13809 May 20 05:58	8° $\mathbb{I}$ 59'50	7°56'42
morning set	13806 Nov 21 13:16	2° $\mathcal{A}$ 50'37		min. Earth dist.	13809 May 20 16:08	8° $\mathbb{I}$ 43'57	0.27788 AU
	13806 Dec 13 11:09	0° $\mathcal{Z}$		morning rise	13809 May 24 02:37	6° $\mathbb{I}$ 36'49	
				direct	13809 Jun 10 15:48	0° $\mathbb{I}$ 42'22	
superior conj	13806 Dec 28 16:47	18° $\mathcal{Z}$ 51'36	1°24'28	greatest brilliancy	13809 Jun 20 14:11	2° $\mathbb{I}$ 34'08	-4.9m
minimum elong	13806 Dec 28 20:42	19° $\mathcal{Z}$ 03'41	1°25'29		13809 Jul 27 14:47	0° $\mathcal{E}$	
max. Earth dist.	13806 Dec 30 10:04	20° $\mathcal{Z}$ 59'16	1.72982 AU	morning max el	13809 Jul 31 02:54	3° $\mathcal{E}$ 28'59	46°56'51
	13807 Jan 06 17:02	0° $\approx$		desc. node	13809 Aug 02 12:33	5° $\mathcal{E}$ 55'04	
	13807 Jan 31 00:51	0° $\chi$			13809 Aug 24 21:08	0° $\Omega$	
evening rise	13807 Feb 04 00:29	4° $\chi$ 54'11			13809 Sep 19 22:16	0° $\eta$	
desc. node	13807 Feb 15 10:30	18° $\chi$ 56'10			13809 Oct 15 03:45	0° $\Omega$	
	13807 Feb 24 10:48	0° $\Upsilon$			13809 Nov 09 00:05	0° $\mathbb{M}$	
	13807 Mar 20 22:18	0° $\mathcal{B}$		asc. node	13809 Nov 23 10:13	17° $\mathbb{M}$ 32'45	
	13807 Apr 14 10:58	0° $\mathbb{I}$			13809 Dec 03 15:00	0° $\mathcal{A}$	
	13807 May 09 01:55	0° $\mathcal{E}$			13809 Dec 28 02:14	0° $\mathcal{Z}$	
	13807 Jun 02 22:51	0° $\Omega$			13810 Jan 21 11:12	0° $\approx$	
asc. node	13807 Jun 08 03:28	6° $\Omega$ 11'43		morning set	13810 Jan 29 17:06	10° $\approx$ 09'49	
	13807 Jun 28 09:21	0° $\eta$			13810 Feb 14 19:12	0° $\chi$	
	13807 Jul 25 02:39	0° $\Omega$		max. Earth dist.	13810 Mar 07 02:13	25° $\chi$ 02'17	1.73034 AU
evening max el	13807 Aug 07 04:19	13° $\Omega$ 37'46	46°44'14				
	13807 Aug 24 19:38	0° $\mathbb{M}$		superior conj	13810 Mar 07 23:49	26° $\chi$ 08'54	0°16'59
greatest brilliancy	13807 Sep 15 13:03	13° $\mathbb{M}$ 56'56	-4.9m	minimum elong	13810 Mar 08 03:41	26° $\chi$ 20'49	0°16'59
retrograde	13807 Sep 26 12:39	16° $\mathbb{M}$ 11'34			13810 Mar 11 02:43	0° $\Upsilon$	
desc. node	13807 Sep 28 04:43	16° $\mathbb{M}$ 08'10		desc. node	13810 Mar 15 01:00	4° $\Upsilon$ 51'00	
evening set	13807 Oct 11 13:29	11° $\mathbb{M}$ 45'03			13810 Apr 04 09:25	0° $\mathcal{B}$	
min. Earth dist.	13807 Oct 16 17:42	8° $\mathbb{M}$ 42'32	0.27573 AU	evening rise	13810 Apr 15 07:11	13° $\mathcal{B}$ 29'48	
inferior conj	13807 Oct 17 13:06	8° $\mathbb{M}$ 12'51	-4°42'49		13810 Apr 28 14:47	0° $\mathbb{I}$	
minimum elong	13807 Oct 17 03:35	8° $\mathbb{M}$ 27'25	4°39'40		13810 May 22 19:01	0° $\mathcal{E}$	
morning rise	13807 Oct 22 18:18	5° $\mathbb{M}$ 07'23			13810 Jun 15 23:32	0° $\Omega$	
direct	13807 Nov 07 11:15	0° $\mathbb{M}$ 23'15		asc. node	13810 Jul 05 15:39	24° $\Omega$ 18'08	
greatest brilliancy	13807 Nov 16 23:22	2° $\mathbb{M}$ 02'46	-4.8m		13810 Jul 10 06:49	0° $\eta$	
	13807 Dec 25 19:36	0° $\mathcal{A}$			13810 Aug 03 20:23	0° $\Omega$	
morning max el	13807 Dec 26 13:56	0° $\mathcal{A}$ 44'02	45°53'12		13810 Aug 28 22:10	0° $\mathbb{M}$	
asc. node	13808 Jan 19 07:18	25° $\mathcal{A}$ 11'26			13810 Sep 24 01:12	0° $\mathcal{A}$	
	13808 Jan 23 17:05	0° $\mathcal{Z}$		evening max el	13810 Oct 17 16:15	24° $\mathcal{A}$ 57'43	46°20'26
	13808 Feb 19 04:41	0° $\approx$			13810 Oct 22 21:05	0° $\mathcal{Z}$	
	13808 Mar 15 15:28	0° $\chi$		desc. node	13810 Oct 25 14:07	2° $\mathcal{Z}$ 31'56	
	13808 Apr 09 12:57	0° $\Upsilon$		greatest brilliancy	13810 Nov 26 00:13	24° $\mathcal{Z}$ 22'23	-4.8m
	13808 May 04 01:56	0° $\mathcal{B}$		retrograde	13810 Dec 06 08:13	26° $\mathcal{Z}$ 19'24	
desc. node	13808 May 10 03:49	7° $\mathcal{B}$ 29'04		evening set	13810 Dec 24 18:10	19° $\mathcal{Z}$ 59'05	
	13808 May 28 08:36	0° $\mathbb{I}$		inferior conj	13810 Dec 27 20:02	18° $\mathcal{Z}$ 04'11	-8°40'49
	13808 Jun 21 10:29	0° $\mathcal{E}$		minimum elong	13810 Dec 28 00:06	17° $\mathcal{Z}$ 57'49	8°39'33
morning set	13808 Jun 24 23:47	4° $\mathcal{E}$ 26'36		min. Earth dist.	13810 Dec 27 16:48	18° $\mathcal{Z}$ 09'16	0.28825 AU
	13808 Jul 15 09:24	0° $\Omega$		morning rise	13810 Dec 31 06:07	15° $\mathcal{Z}$ 57'03	
				direct	13811 Jan 18 04:31	9° $\mathcal{Z}$ 54'45	

greatest brilliancy	13811 Jan 28 10:51	11°  49'35	-4.7m			13813 Sep 10 12:22	0° 	
asc. node	13811 Feb 15 16:50	22°  23'52				13813 Oct 05 01:20	0° 	
	13811 Feb 25 00:05	0° 				13813 Oct 30 03:29	0° 	
morning max el	13811 Mar 08 04:59	10°  23'02	45°46'19	desc. node		13813 Nov 22 00:10	26°  21'51	
	13811 Mar 27 06:02	0° 				13813 Nov 25 06:02	0° 	
	13811 Apr 23 00:36	0° 				13813 Dec 23 12:23	0° 	
	13811 May 18 12:14	0° 		evening max el		13813 Dec 27 18:01	4°  08'19	45°57'10
desc. node	13811 Jun 07 16:45	24°  22'14				13814 Jan 29 21:09	0° 	
	13811 Jun 12 07:32	0° 		greatest brilliancy		13814 Feb 04 19:37	2°  32'59	-4.8m
	13811 Jul 06 16:50	0° 		retrograde		13814 Feb 14 18:28	4°  21'28	
	13811 Jul 30 20:15	0° 		evening set		13814 Mar 01 23:20	29°  51'17	
	13811 Aug 23 20:54	0° 				13814 Mar 01 16:59	30°  R 	
morning set	13811 Sep 08 08:08	19°  20'11		inferior conj		13814 Mar 08 00:32	26°  13'12	-1°44'31
	13811 Sep 16 20:54	0° 		minimum elong		13814 Mar 08 04:26	26°  07'07	1°43'09
asc. node	13811 Sep 28 08:10	14°  19'35		min. Earth dist.		13814 Mar 08 08:40	26°  00'30	0.28390 AU
	13811 Oct 10 21:27	0° 		morning rise		13814 Mar 14 09:11	22°  24'22	
				asc. node		13814 Mar 15 02:00	22°  01'41	
superior conj	13811 Oct 17 09:48	8°  07'34	0°44'17	direct		13814 Mar 29 06:31	18°  02'00	
minimum elong	13811 Oct 17 00:36	7°  38'51	0°44'26	greatest brilliancy		13814 Apr 09 02:13	20°  11'54	-4.8m
max. Earth dist.	13811 Oct 19 11:45	10°  43'14	1.72105 AU			13814 Apr 25 20:16	0° 	
	13811 Nov 03 23:14	0° 		morning max el		13814 May 18 01:35	19°  42'46	46°22'54
evening rise	13811 Nov 24 00:34	24°  54'19				13814 May 28 03:00	0° 	
	13811 Nov 28 03:18	0° 				13814 Jun 24 05:37	0° 	
	13811 Dec 22 11:08	0° 		desc. node		13814 Jul 05 04:19	12°  43'28	
	13812 Jan 16 00:14	0° 				13814 Jul 19 17:59	0° 	
desc. node	13812 Jan 17 22:26	2°  20'24				13814 Aug 13 12:51	0° 	
	13812 Feb 09 19:26	0° 				13814 Sep 06 23:23	0° 	
	13812 Mar 05 21:30	0° 				13814 Oct 01 06:22	0° 	
	13812 Mar 31 09:16	0° 				13814 Oct 25 11:52	0° 	
	13812 Apr 26 16:22	0° 		asc. node		13814 Oct 25 22:36	0°  13'14	
asc. node	13812 May 09 18:44	14°  16'57				13814 Nov 18 16:42	0° 	
evening max el	13812 May 22 22:06	27°  50'28	46°33'16	morning set		13814 Nov 19 05:04	0°  38'21	
	13812 May 25 02:39	0° 				13814 Dec 12 21:31	0° 	
greatest brilliancy	13812 Jul 02 09:27	28°  14'40	-4.9m					
retrograde	13812 Jul 11 22:59	29°  15'27		superior conj		13814 Dec 26 09:43	16°  34'27	1°25'05
evening set	13812 Jul 28 08:11	24°  47'52		minimum elong		13814 Dec 26 12:55	16°  35'21	1°26'06
inferior conj	13812 Aug 01 15:06	22°  13'50	6°38'07	max. Earth dist.		13814 Dec 28 06:28	19°  30'55	1.72962 AU
minimum elong	13812 Aug 02 02:18	21°  15'41	6°34'52			13815 Jan 06 03:23	0° 	
min. Earth dist.	13812 Aug 02 04:25	21°  15'37	0.27061 AU			13815 Jan 30 11:17	0° 	
morning rise	13812 Aug 06 20:11	19°  15'40		evening rise		13815 Feb 01 16:47	2°  44'33	
direct	13812 Aug 22 08:15	14°  15'36		desc. node		13815 Feb 14 12:20	18°  45'27	
desc. node	13812 Aug 29 21:40	15°  15'56				13815 Feb 23 21:25	0° 	
greatest brilliancy	13812 Sep 01 13:25	16°  15'17	-4.9m			13815 Mar 20 09:12	0° 	
	13812 Sep 23 10:05	0° 				13815 Apr 13 22:15	0° 	
morning max el	13812 Oct 11 11:24	16°  29'18	46°37'23			13815 May 08 13:48	0° 	
	13812 Oct 24 15:21	0° 				13815 Jun 02 11:44	0° 	
	13812 Nov 20 20:27	0° 		asc. node		13815 Jun 07 05:21	5°  13'16	
	13812 Dec 16 18:07	0° 				13815 Jun 28 00:01	0° 	
asc. node	13812 Dec 20 22:22	4°  55'29				13815 Jul 24 21:21	0° 	
	13813 Jan 10 23:39	0° 		evening max el		13815 Aug 04 19:35	11°  19'51	46°44'28
	13813 Feb 04 19:27	0° 				13815 Aug 25 06:55	0° 	
	13813 Mar 01 09:15	0° 		greatest brilliancy		13815 Sep 13 03:38	11°  36'50	-4.9m
	13813 Mar 25 19:11	0° 		retrograde		13815 Sep 24 03:13	13°  50'53	
morning set	13813 Apr 09 12:33	18°  10'11		desc. node		13815 Sep 27 06:51	13°  51'47	
desc. node	13813 Apr 11 15:37	20°  48'03		evening set		13815 Oct 09 01:21	9°  52'57	
	13813 Apr 19 01:57	0° 		min. Earth dist.		13815 Oct 14 07:44	6°  52'13	0.27517 AU
	13813 May 13 05:35	0° 		inferior conj		13815 Oct 15 02:43	5°  53'08	-4°23'06
max. Earth dist.	13813 May 15 16:52	3°  54'39	1.72085 AU	minimum elong		13815 Oct 14 17:40	6°  54'01	4°20'03
				morning rise		13815 Oct 20 10:41	2°  54'59	
superior conj	13813 May 18 21:29	7°  54'25	-1°15'13			13815 Oct 26 04:42	30°  R 	
minimum elong	13813 May 18 11:25	6°  54'04	1°15'53	direct		13815 Nov 05 01:06	28°  54'28	
	13813 Jun 06 06:27	0° 		greatest brilliancy		13815 Nov 14 12:14	29°  54'24	-4.8m
evening rise	13813 Jun 27 12:11	26°  54'54				13815 Nov 15 07:24	0° 	
	13813 Jun 30 05:43	0° 		morning max el		13815 Dec 24 03:49	28°  54'28	45°54'20
	13813 Jul 24 05:11	0° 				13815 Dec 25 18:00	0° 	
asc. node	13813 Aug 02 04:59	11°  13'36		asc. node		13816 Jan 18 09:13	24°  32'42	
	13813 Aug 17 06:42	0° 				13816 Jan 23 08:33	0° 	

	13816 Feb 18 17:43	0°≈			13818 Sep 23 17:44	0°♊	
	13816 Mar 15 03:23	0°♋	evening max el		13818 Oct 15 05:44	22°♊37'52	46°21'28
	13816 Apr 09 00:17	0°♌			13818 Oct 22 22:04	0°♋	
	13816 May 03 12:56	0°♍	desc. node		13818 Oct 24 16:03	1°♋36'21	
desc. node	13816 May 09 05:41	7°♍01'03	greatest brilliancy		13818 Nov 23 15:25	22°♋09'02	-4.8m
	13816 May 27 19:25	0°♎	retrograde		13818 Dec 03 23:34	24°♋06'43	
	13816 Jun 20 21:12	0°♏	evening set		13818 Dec 22 10:41	17°♋44'55	
morning set	13816 Jun 22 11:29	1°♏59'37	inferior conj		13818 Dec 25 11:38	15°♋51'37	-8°44'39
	13816 Jul 14 20:06	0°♐	minimum elong		13818 Dec 25 14:54	15°♋46'28	8°43'27
			min. Earth dist.		13818 Dec 25 07:40	15°♋57'50	0.28810 AU
superior conj	13816 Aug 01 08:52	21°♐59'41	morning rise		13818 Dec 28 19:11	13°♋48'22	
minimum elong	13816 Aug 01 20:36	22°♐36'28	direct		13819 Jan 15 19:18	7°♋42'27	
max. Earth dist.	13816 Aug 01 12:46	22°♐11'54	greatest brilliancy		13819 Jan 26 01:54	9°♋37'06	-4.7m
	13816 Aug 07 18:00	0°♑	asc. node		13819 Feb 14 18:52	21°♋17'32	
asc. node	13816 Aug 29 19:23	27°♑38'48			13819 Feb 25 03:24	0°≈	
	13816 Aug 31 16:30	0°♒	morning max el		13819 Mar 05 19:32	8°≈07'45	45°45'53
evening rise	13816 Sep 10 08:09	12°♒04'29			13819 Mar 26 22:49	0°♋	
	13816 Sep 24 16:46	0°♓			13819 Apr 22 14:23	0°♌	
	13816 Oct 18 20:12	0°♊			13819 May 18 00:43	0°♍	
	13816 Nov 12 05:02	0°♋	desc. node		13819 Jun 06 18:34	23°♍51'27	
	13816 Dec 06 22:29	0°≈			13819 Jun 11 19:21	0°♎	
desc. node	13816 Dec 19 11:34	14°≈59'46			13819 Jul 06 04:17	0°♏	
	13817 Jan 01 04:41	0°♋			13819 Jul 30 07:28	0°♐	
	13817 Jan 27 05:51	0°♌			13819 Aug 23 07:57	0°♑	
	13817 Feb 23 17:28	0°♍	morning set		13819 Sep 05 21:07	16°♑56'24	
evening max el	13817 Mar 08 23:47	13°♍24'53			13819 Sep 16 07:50	0°♒	
	13817 Mar 27 13:37	0°♎	asc. node		13819 Sep 27 10:03	13°♒51'28	
asc. node	13817 Apr 11 11:10	9°♎57'26			13819 Oct 10 08:18	0°♓	
greatest brilliancy	13817 Apr 17 12:26	12°♎35'52					
retrograde	13817 Apr 27 08:02	14°♎22'59	superior conj		13819 Oct 15 00:04	5°♓48'38	0°41'09
evening set	13817 May 13 19:20	9°♎08'12	minimum elong		13819 Oct 14 15:16	5°♓21'11	0°41'17
inferior conj	13817 May 18 05:36	6°♎25'52	max. Earth dist.		13819 Oct 16 23:20	8°♓15'58	1.72073 AU
minimum elong	13817 May 17 19:47	6°♎41'13			13819 Nov 03 10:04	0°♊	
min. Earth dist.	13817 May 18 06:21	6°♎24'41	evening rise		13819 Nov 21 16:18	22°♊40'46	
morning rise	13817 May 21 20:08	4°♎12'21			13819 Nov 27 14:10	0°♋	
	13817 May 30 07:28	30°♋♌			13819 Dec 21 22:09	0°≈	
direct	13817 Jun 08 05:47	28°♋22'42			13820 Jan 15 11:32	0°♋	
	13817 Jun 17 12:12	0°♎	desc. node		13820 Jan 17 00:19	1°♋51'43	
greatest brilliancy	13817 Jun 18 05:22	0°♎14'58			13820 Feb 09 07:13	0°♌	
	13817 Jul 27 13:59	0°♏			13820 Mar 05 10:04	0°♍	
morning max el	13817 Jul 28 15:39	1°♏04'18			13820 Mar 30 23:10	0°♎	
desc. node	13817 Aug 01 14:30	5°♏05'50			13820 Apr 26 08:58	0°♏	
	13817 Aug 24 13:27	0°♐	asc. node		13820 May 08 20:36	13°♏31'27	
	13817 Sep 19 12:06	0°♑	evening max el		13820 May 20 11:06	25°♏26'49	46°32'21
	13817 Oct 14 16:18	0°♒			13820 May 25 03:02	0°♐	
	13817 Nov 08 11:51	0°♓	greatest brilliancy		13820 Jun 29 22:21	25°♐49'32	-4.9m
asc. node	13817 Nov 22 11:58	17°♓03'05	retrograde		13820 Jul 09 12:15	27°♐33'34	
	13817 Dec 03 02:16	0°♊	evening set		13820 Jul 26 00:31	22°♐17'14	
	13817 Dec 27 13:10	0°♋	inferior conj		13820 Jul 30 03:52	19°♐48'23	6°54'35
	13818 Jan 20 21:56	0°≈	minimum elong		13820 Jul 30 15:00	19°♐31'19	6°51'25
morning set	13818 Jan 27 10:10	8°≈01'34	min. Earth dist.		13820 Jul 30 17:24	19°♐27'40	0.27088 AU
	13818 Feb 14 05:49	0°♋	morning rise		13820 Aug 04 05:19	16°♐47'31	
max. Earth dist.	13818 Mar 04 19:29	22°♋54'43	direct		13820 Aug 19 21:22	11°♐58'26	
			desc. node		13820 Aug 28 23:48	13°♐32'24	
superior conj	13818 Mar 05 15:43	23°♋57'10	greatest brilliancy		13820 Aug 30 02:15	13°♐55'24	-4.9m
minimum elong	13818 Mar 05 20:18	24°♋11'18			13820 Sep 23 20:20	0°♑	
	13818 Mar 10 13:20	0°♌	morning max el		13820 Oct 09 02:13	14°♑09'44	46°38'50
desc. node	13818 Mar 14 02:55	4°♌24'08			13820 Oct 24 10:18	0°♒	
	13818 Apr 03 20:08	0°♍			13820 Nov 20 11:21	0°♓	
evening rise	13818 Apr 12 22:14	11°♍14'30			13820 Dec 16 07:10	0°♊	
	13818 Apr 28 01:40	0°♎	asc. node		13820 Dec 20 00:17	4°♊23'07	
	13818 May 22 06:08	0°♏			13821 Jan 10 11:42	0°♋	
	13818 Jun 15 10:58	0°♐			13821 Feb 04 06:54	0°≈	
asc. node	13818 Jul 04 17:26	23°♐47'25			13821 Feb 28 20:23	0°♋	
	13818 Jul 09 18:41	0°♑			13821 Mar 25 06:09	0°♌	
	13818 Aug 03 08:58	0°♒	morning set		13821 Apr 07 03:05	15°♌53'04	
	13818 Aug 28 12:01	0°♓	desc. node		13821 Apr 10 17:28	20°♌20'01	

	13821 Apr 18 12:51	0°♄		min. Earth dist.	13823 Oct 11 22:18	4°♍01'19	0.27466 AU
	13821 May 12 16:28	0°♂		inferior conj	13823 Oct 12 16:31	3°♍33'21	-4°02'53
max. Earth dist.	13821 May 13 08:15	0°♂49'08	1.72119 AU	minimum elong	13823 Oct 12 08:00	3°♍46'26	3°59'58
				morning rise	13823 Oct 18 03:06	0°♍20'27	
superior conj	13821 May 16 10:40	4°♂40'59	-1°13'15		13823 Oct 18 18:11	30°♌♂	
minimum elong	13821 May 16 00:13	4°♂08'25	1°13'52	direct	13823 Nov 02 14:48	25°♌45'31	
	13821 Jun 05 17:21	0°♄		greatest brilliancy	13823 Nov 12 01:47	27°♌24'09	-4.8m
evening rise	13821 Jun 25 00:14	24°♄08'03			13823 Nov 18 05:30	0°♍	
	13821 Jun 29 16:42	0°♌		morning max el	13823 Dec 21 17:05	26°♍08'21	45°55'18
	13821 Jul 23 16:19	0°♍			13823 Dec 25 15:52	0°♎	
asc. node	13821 Aug 01 06:56	10°♍44'44		asc. node	13824 Jan 17 11:14	23°♎53'39	
	13821 Aug 16 18:05	0°♌			13824 Jan 23 00:09	0°♏	
	13821 Sep 10 00:04	0°♍			13824 Feb 18 07:00	0°♐	
	13821 Oct 04 13:35	0°♎			13824 Mar 14 15:33	0°♑	
	13821 Oct 29 16:46	0°♏			13824 Apr 08 11:51	0°♒	
desc. node	13821 Nov 21 02:02	25°♏44'51			13824 May 03 00:10	0°♓	
	13821 Nov 24 21:28	0°♐		desc. node	13824 May 08 07:24	6°♓31'51	
	13821 Dec 23 09:44	0°♑			13824 May 27 06:28	0°♔	
evening max el	13821 Dec 25 10:01	1°♑57'07	45°57'36	morning set	13824 Jun 19 23:07	29°♔31'46	
	13822 Feb 01 12:58	0°♒			13824 Jun 20 08:09	0°♕	
greatest brilliancy	13822 Feb 02 10:30	0°♒19'22	-4.8m		13824 Jul 14 07:00	0°♌	
retrograde	13822 Feb 12 09:57	2°♒07'50					
	13822 Feb 22 17:30	30°♒♑		superior conj	13824 Jul 29 20:57	19°♌32'59	-1°05'06
evening set	13822 Feb 27 16:24	27°♒35'18		minimum elong	13824 Jul 30 08:38	20°♌09'38	1°05'27
inferior conj	13822 Mar 05 15:55	23°♒59'09	-2°05'27	max. Earth dist.	13824 Jul 29 19:00	19°♌26'53	1.71440 AU
minimum elong	13822 Mar 05 20:32	23°♒51'54	2°03'50		13824 Aug 07 04:51	0°♍	
min. Earth dist.	13822 Mar 06 00:02	23°♒46'25	0.28416 AU	asc. node	13824 Aug 28 21:14	27°♍10'45	
morning rise	13822 Mar 12 00:26	20°♒10'31			13824 Aug 31 03:19	0°♎	
asc. node	13822 Mar 14 04:02	19°♒03'29		evening rise	13824 Sep 07 21:26	9°♎42'04	
direct	13822 Mar 26 22:43	15°♒47'56			13824 Sep 24 03:37	0°♏	
greatest brilliancy	13822 Apr 06 17:28	17°♒57'10	-4.8m		13824 Oct 18 07:12	0°♐	
	13822 Apr 26 09:26	0°♒			13824 Nov 11 16:20	0°♑	
morning max el	13822 May 15 17:13	17°♒28'04	46°21'23		13824 Dec 06 10:19	0°♒	
	13822 May 27 21:46	0°♓		desc. node	13824 Dec 18 13:27	14°♒29'05	
	13822 Jun 23 20:21	0°♔			13824 Dec 31 17:28	0°♓	
desc. node	13822 Jul 04 06:17	12°♔08'23			13825 Jan 26 20:26	0°♔	
	13822 Jul 19 07:02	0°♕			13825 Feb 23 12:20	0°♕	
	13822 Aug 13 01:01	0°♌		evening max el	13825 Mar 06 13:13	11°♓05'30	46°02'39
	13822 Sep 06 11:03	0°♍			13825 Mar 28 03:34	0°♔	
	13822 Sep 30 17:42	0°♎		asc. node	13825 Apr 10 13:03	8°♔22'49	
	13822 Oct 24 22:57	0°♏		greatest brilliancy	13825 Apr 15 02:25	10°♔16'38	-4.8m
asc. node	13822 Oct 25 00:20	0°♍04'17		retrograde	13825 Apr 24 21:27	12°♔03'38	
morning set	13822 Nov 16 20:32	28°♍23'42		evening set	13825 May 11 05:24	6°♔54'19	
	13822 Nov 18 03:36	0°♎		inferior conj	13825 May 15 19:48	4°♔06'10	7°34'54
	13822 Dec 12 08:18	0°♏		minimum elong	13825 May 15 09:38	4°♔22'03	7°32'13
				min. Earth dist.	13825 May 15 20:39	4°♔04'51	0.27825 AU
superior conj	13822 Dec 24 02:16	14°♏32'48	1°25'34	morning rise	13825 May 19 13:41	1°♔47'33	
minimum elong	13822 Dec 24 04:42	14°♏40'22	1°26'36		13825 May 22 17:25	30°♒♓	
max. Earth dist.	13822 Dec 26 01:49	16°♏59'56	1.72939 AU	direct	13825 Jun 05 19:29	26°♓02'26	
	13823 Jan 05 14:09	0°♐		greatest brilliancy	13825 Jun 15 20:50	27°♓55'51	-4.9m
	13823 Jan 29 22:08	0°♑			13825 Jun 20 15:57	0°♔	
evening rise	13823 Jan 30 08:41	0°♑32'27		morning max el	13825 Jul 26 05:02	28°♔40'58	46°56'13
desc. node	13823 Feb 13 14:14	18°♑01'45			13825 Jul 27 12:20	0°♕	
	13823 Feb 23 08:27	0°♒		desc. node	13825 Jul 31 16:33	4°♕17'23	
	13823 Mar 19 20:30	0°♓			13825 Aug 24 05:32	0°♌	
	13823 Apr 13 09:57	0°♔			13825 Sep 19 01:47	0°♍	
	13823 May 08 02:08	0°♕			13825 Oct 14 04:43	0°♎	
	13823 Jun 02 01:02	0°♌			13825 Nov 07 23:29	0°♏	
asc. node	13823 Jun 06 07:15	5°♌03'42		asc. node	13825 Nov 21 13:52	16°♍34'17	
	13823 Jun 27 15:09	0°♍			13825 Dec 02 13:24	0°♎	
	13823 Jul 24 16:45	0°♎			13825 Dec 27 00:00	0°♏	
evening max el	13823 Aug 02 10:24	9°♎00'16	46°44'43		13826 Jan 20 08:37	0°♐	
	13823 Aug 25 22:13	0°♏		morning set	13826 Jan 25 03:15	5°♐53'24	
greatest brilliancy	13823 Sep 10 18:51	9°♏17'17	-4.9m		13826 Feb 13 16:25	0°♑	
retrograde	13823 Sep 21 17:21	11°♏30'02		max. Earth dist.	13826 Mar 02 13:40	20°♑50'00	1.73071 AU
desc. node	13823 Sep 26 08:45	11°♏03'50					
evening set	13823 Oct 06 13:36	7°♏10'26		superior conj	13826 Mar 03 07:31	21°♑45'05	0°23'39

minimum elong	13826 Mar 03 12:47	22° $\text{H}$ 01'20	0°23'39			13828 Sep 24 03:26	0° $\text{M}$	
	13826 Mar 09 23:57	0° $\text{Y}$		morning max el		13828 Oct 06 17:07	11° $\text{M}$ 51'18	46°40'11
desc. node	13826 Mar 13 04:42	3° $\text{Y}$ 56'48				13828 Oct 24 04:22	0° $\text{L}$	
	13826 Apr 03 06:50	0° $\text{B}$				13828 Nov 20 01:42	0° $\text{M}$	
evening rise	13826 Apr 10 13:09	8° $\text{B}$ 58'56				13828 Dec 15 19:45	0° $\text{J}$	
	13826 Apr 27 12:32	0° $\text{II}$		asc. node		13828 Dec 19 02:15	3° $\text{J}$ 52'13	
	13826 May 21 17:14	0° $\text{G}$				13829 Jan 09 23:17	0° $\text{Z}$	
	13826 Jun 14 22:22	0° $\text{Q}$				13829 Feb 03 17:55	0° $\approx$	
asc. node	13826 Jul 03 19:25	23° $\text{Q}$ 17'24				13829 Feb 28 07:05	0° $\text{H}$	
	13826 Jul 09 06:33	0° $\text{M}$				13829 Mar 24 16:42	0° $\text{Y}$	
	13826 Aug 02 21:33	0° $\text{L}$		morning set		13829 Apr 04 17:57	13° $\text{Y}$ 38'16	
	13826 Aug 28 01:53	0° $\text{M}$		desc. node		13829 Apr 09 19:14	19° $\text{Y}$ 52'59	
	13826 Sep 23 10:23	0° $\text{J}$				13829 Apr 17 23:22	0° $\text{B}$	
evening max el	13826 Oct 12 19:59	20° $\text{J}$ 20'42	46°22'45	max. Earth dist.		13829 May 10 21:23	28° $\text{B}$ 27'46	1.72159 AU
	13826 Oct 23 00:00	0° $\text{Z}$				13829 May 12 03:01	0° $\text{II}$	
desc. node	13826 Oct 23 18:00	0° $\text{Z}$ 40'28						
greatest brilliancy	13826 Nov 21 06:10	19° $\text{Z}$ 56'27	-4.8m	superior conj		13829 May 13 23:52	2° $\text{II}$ 19'41	-1°11'09
retrograde	13826 Dec 01 15:38	21° $\text{Z}$ 55'42		minimum elong		13829 May 13 13:07	1° $\text{II}$ 46'12	1°11'43
evening set	13826 Dec 20 03:05	15° $\text{Z}$ 32'44				13829 Jun 05 03:57	0° $\text{G}$	
inferior conj	13826 Dec 23 03:28	13° $\text{Z}$ 40'32	-8°47'33	evening rise		13829 Jun 22 12:01	21° $\text{G}$ 41'14	
minimum elong	13826 Dec 23 05:57	13° $\text{Z}$ 36'38	8°46'25			13829 Jun 29 03:25	0° $\text{Q}$	
min. Earth dist.	13826 Dec 22 22:25	13° $\text{Z}$ 48'25	0.28796 AU			13829 Jul 23 03:10	0° $\text{M}$	
morning rise	13826 Dec 26 08:53	11° $\text{Z}$ 40'43		asc. node		13829 Jul 31 08:45	10° $\text{M}$ 16'25	
direct	13827 Jan 13 10:31	5° $\text{Z}$ 31'37				13829 Aug 16 05:08	0° $\text{L}$	
greatest brilliancy	13827 Jan 23 16:53	7° $\text{Z}$ 26'02	-4.7m			13829 Sep 09 11:27	0° $\text{M}$	
asc. node	13827 Feb 13 20:54	20° $\text{Z}$ 13'55				13829 Oct 04 01:33	0° $\text{J}$	
	13827 Feb 25 04:48	0° $\approx$				13829 Oct 29 05:46	0° $\text{Z}$	
morning max el	13827 Mar 03 11:11	5° $\approx$ 56'04	45°45'17	desc. node		13829 Nov 20 04:04	25° $\text{Z}$ 09'10	
	13827 Mar 26 15:05	0° $\text{H}$				13829 Nov 24 12:42	0° $\approx$	
	13827 Apr 22 03:54	0° $\text{Y}$		evening max el		13829 Dec 23 02:07	29° $\approx$ 47'30	45°58'07
	13827 May 17 13:00	0° $\text{B}$				13829 Dec 23 07:19	0° $\text{H}$	
desc. node	13827 Jun 05 20:34	23° $\text{B}$ 21'47		greatest brilliancy		13830 Jan 31 02:13	28° $\text{H}$ 08'48	-4.8m
	13827 Jun 11 06:59	0° $\text{II}$		retrograde		13830 Feb 10 01:18	29° $\text{H}$ 56'35	
	13827 Jul 05 15:32	0° $\text{G}$		evening set		13830 Feb 25 09:55	25° $\text{H}$ 21'45	
	13827 Jul 29 18:28	0° $\text{Q}$		inferior conj		13830 Mar 03 07:37	21° $\text{H}$ 47'44	-2°25'55
	13827 Aug 22 18:47	0° $\text{M}$		minimum elong		13830 Mar 03 12:57	21° $\text{H}$ 39'22	2°24'03
morning set	13827 Sep 03 10:04	14° $\text{M}$ 33'06		min. Earth dist.		13830 Mar 03 15:57	21° $\text{H}$ 34'40	0.28439 AU
	13827 Sep 15 18:33	0° $\text{L}$		morning rise		13830 Mar 09 15:46	17° $\text{H}$ 59'21	
asc. node	13827 Sep 26 11:46	13° $\text{L}$ 23'32		asc. node		13830 Mar 13 05:54	16° $\text{H}$ 12'01	
	13827 Oct 09 18:56	0° $\text{M}$		direct		13830 Mar 24 14:55	13° $\text{H}$ 36'36	
				greatest brilliancy		13830 Apr 04 09:05	15° $\text{H}$ 45'05	-4.8m
superior conj	13827 Oct 12 14:22	3° $\text{M}$ 30'24	0°37'56			13830 Apr 26 18:18	0° $\text{Y}$	
minimum elong	13827 Oct 12 06:02	3° $\text{M}$ 04'26	0°38'03	morning max el		13830 May 13 08:07	15° $\text{Y}$ 13'06	46°19'37
max. Earth dist.	13827 Oct 14 11:52	5° $\text{M}$ 52'19	1.72040 AU			13830 May 27 15:31	0° $\text{B}$	
	13827 Nov 02 20:38	0° $\text{J}$				13830 Jun 23 10:31	0° $\text{II}$	
evening rise	13827 Nov 19 08:20	20° $\text{J}$ 28'58		desc. node		13830 Jul 03 08:16	11° $\text{II}$ 34'36	
	13827 Nov 27 00:44	0° $\text{Z}$				13830 Jul 18 19:41	0° $\text{G}$	
	13827 Dec 21 08:51	0° $\approx$				13830 Aug 12 12:52	0° $\text{Q}$	
	13828 Jan 14 22:31	0° $\text{H}$				13830 Sep 05 22:24	0° $\text{M}$	
desc. node	13828 Jan 16 02:18	1° $\text{H}$ 24'21				13830 Sep 30 04:40	0° $\text{L}$	
	13828 Feb 08 18:43	0° $\text{Y}$		asc. node		13830 Oct 24 02:12	29° $\text{L}$ 36'53	
	13828 Mar 04 22:24	0° $\text{B}$				13830 Oct 24 09:39	0° $\text{M}$	
	13828 Mar 30 12:56	0° $\text{II}$		morning set		13830 Nov 14 11:52	26° $\text{M}$ 09'48	
	13828 Apr 26 01:39	0° $\text{G}$				13830 Nov 17 14:06	0° $\text{J}$	
asc. node	13828 May 07 22:35	12° $\text{G}$ 46'10				13830 Dec 11 18:43	0° $\text{Z}$	
evening max el	13828 May 18 01:14	23° $\text{G}$ 06'42	46°31'25					
	13828 May 25 04:26	0° $\text{Q}$		superior conj		13830 Dec 21 18:57	12° $\text{Z}$ 23'47	1°25'55
greatest brilliancy	13828 Jun 27 11:06	23° $\text{Q}$ 25'12	-4.9m	minimum elong		13830 Dec 21 20:38	12° $\text{Z}$ 28'59	1°26'58
retrograde	13828 Jul 07 01:40	25° $\text{Q}$ 09'25		max. Earth dist.		13830 Dec 23 19:40	14° $\text{Z}$ 54'30	1.72913 AU
evening set	13828 Jul 23 16:58	19° $\text{Q}$ 47'34				13831 Jan 05 00:33	0° $\approx$	
inferior conj	13828 Jul 27 16:39	17° $\text{Q}$ 23'48	7°10'11	evening rise		13831 Jan 28 00:51	28° $\approx$ 22'21	
minimum elong	13828 Jul 28 03:41	17° $\text{Q}$ 06'55	7°07'08			13831 Jan 29 08:36	0° $\text{H}$	
min. Earth dist.	13828 Jul 28 06:08	17° $\text{Q}$ 03'09	0.27112 AU	desc. node		13831 Feb 12 16:00	17° $\text{H}$ 34'56	
morning rise	13828 Aug 01 14:15	14° $\text{Q}$ 28'26				13831 Feb 22 19:03	0° $\text{Y}$	
direct	13828 Aug 17 10:55	9° $\text{Q}$ 33'26				13831 Mar 19 07:21	0° $\text{B}$	
greatest brilliancy	13828 Aug 27 14:35	11° $\text{Q}$ 29'52	-4.9m			13831 Apr 12 21:14	0° $\text{II}$	
desc. node	13828 Aug 28 01:46	11° $\text{Q}$ 40'16				13831 May 07 14:04	0° $\text{G}$	

	13831 Jun 01 14:04	0°♎			13833 Nov 07 11:00	0°♍		
asc. node	13831 Jun 05 09:15	4°♎30'23		asc. node	13833 Nov 20 15:51	16°♍05'58		
	13831 Jun 27 06:11	0°♎			13833 Dec 02 00:28	0°♊		
	13831 Jul 24 12:31	0°♊			13833 Dec 26 10:45	0°♊		
evening max el	13831 Jul 31 00:15	6°♊38'41	46°44'45		13834 Jan 19 19:10	0°♊		
	13831 Aug 26 18:41	0°♍		morning set	13834 Jan 22 20:06	3°♊44'52		
greatest brilliancy	13831 Sep 08 10:24	6°♍57'58	-4.9m		13834 Feb 13 02:53	0°♋		
retrograde	13831 Sep 19 06:55	9°♍08'58						
desc. node	13831 Sep 25 10:43	8°♍22'56		superior conj	13834 Feb 28 23:14	19°♋33'08	0°26'56	
evening set	13831 Oct 04 01:46	4°♍52'19		minimum elong	13834 Mar 01 05:09	19°♋51'23	0°26'57	
min. Earth dist.	13831 Oct 09 13:03	1°♍39'38	0.27415 AU	max. Earth dist.	13834 Feb 28 09:31	18°♋50'49	1.73087 AU	
inferior conj	13831 Oct 10 06:05	1°♍13'29	-3°42'03		13834 Mar 09 10:26	0°♌		
minimum elong	13831 Oct 09 22:08	1°♍25'42	3°39'16	desc. node	13834 Mar 12 06:29	3°♌29'57		
	13831 Oct 12 06:14	30°♋♊			13834 Apr 02 17:25	0°♋		
morning rise	13831 Oct 15 19:08	27°♊56'57		evening rise	13834 Apr 08 04:14	6°♋44'20		
direct	13831 Oct 31 03:34	23°♊26'17			13834 Apr 26 23:16	0°♌		
greatest brilliancy	13831 Nov 09 15:42	25°♊05'24	-4.8m		13834 May 21 04:10	0°♍		
	13831 Nov 19 23:38	0°♍			13834 Jun 14 09:35	0°♎		
morning max el	13831 Dec 19 05:46	23°♍48'29	45°56'31	asc. node	13834 Jul 02 21:17	22°♎47'33		
	13831 Dec 25 12:35	0°♊			13834 Jul 08 18:14	0°♎		
asc. node	13832 Jan 16 13:11	23°♊15'44			13834 Aug 02 10:01	0°♊		
	13832 Jan 22 15:09	0°♊			13834 Aug 27 15:46	0°♍		
	13832 Feb 17 19:49	0°♋			13834 Sep 23 03:22	0°♊		
	13832 Mar 14 03:18	0°♋		evening max el	13834 Oct 10 11:05	18°♊05'22	46°23'44	
	13832 Apr 07 22:59	0°♌		desc. node	13834 Oct 22 20:04	29°♊43'08		
	13832 May 02 10:59	0°♋			13834 Oct 23 03:44	0°♊		
desc. node	13832 May 07 09:24	6°♋04'48		greatest brilliancy	13834 Nov 18 20:09	17°♊41'55	-4.8m	
	13832 May 26 17:06	0°♌		retrograde	13834 Nov 29 07:41	19°♊43'05		
morning set	13832 Jun 17 11:00	27°♌05'51		evening set	13834 Dec 17 18:41	13°♊19'37		
	13832 Jun 19 18:44	0°♍		inferior conj	13834 Dec 20 18:53	11°♊27'52	-8°49'39	
	13832 Jul 13 17:34	0°♎		minimum elong	13834 Dec 20 20:33	11°♊25'16	8°48'34	
				min. Earth dist.	13834 Dec 20 12:31	11°♊37'49	0.28779 AU	
superior conj	13832 Jul 27 08:58	17°♎06'59	-1°07'36	morning rise	13834 Dec 23 22:30	9°♊31'04		
minimum elong	13832 Jul 27 20:32	17°♎43'14	1°08'02	direct	13835 Jan 11 01:51	3°♊19'20		
max. Earth dist.	13832 Jul 27 00:27	16°♎40'15	1.71445 AU	greatest brilliancy	13835 Jan 21 06:57	5°♊12'59	-4.7m	
	13832 Aug 06 15:27	0°♎		asc. node	13835 Feb 12 22:48	19°♊11'02		
asc. node	13832 Aug 27 22:59	26°♎43'02			13835 Feb 25 05:04	0°♋		
	13832 Aug 30 13:56	0°♊		morning max el	13835 Mar 01 03:13	3°♋45'03	45°44'50	
evening rise	13832 Sep 05 10:15	7°♊18'48			13835 Mar 26 07:06	0°♋		
	13832 Sep 23 14:19	0°♍			13835 Apr 21 17:18	0°♌		
	13832 Oct 17 18:03	0°♊			13835 May 17 01:13	0°♋		
	13832 Nov 11 03:28	0°♊		desc. node	13835 Jun 04 22:25	22°♋51'48		
	13832 Dec 05 21:59	0°♋			13835 Jun 10 18:33	0°♌		
desc. node	13832 Dec 17 15:27	13°♋59'17			13835 Jul 05 02:44	0°♍		
	13832 Dec 31 06:05	0°♋			13835 Jul 29 05:24	0°♎		
	13833 Jan 26 10:57	0°♌			13835 Aug 22 05:32	0°♎		
	13833 Feb 23 07:24	0°♋		morning set	13835 Aug 31 23:27	12°♎11'21		
evening max el	13833 Mar 04 03:02	8°♋48'13	46°02'05		13835 Sep 15 05:12	0°♊		
	13833 Mar 28 21:34	0°♌		asc. node	13835 Sep 25 13:39	12°♊56'16		
asc. node	13833 Apr 09 15:07	6°♌46'28			13835 Oct 09 05:32	0°♍		
greatest brilliancy	13833 Apr 12 16:11	7°♌58'45	-4.8m					
retrograde	13833 Apr 22 11:35	9°♌46'26		superior conj	13835 Oct 10 04:45	1°♍12'28	0°34'41	
evening set	13833 May 08 15:53	4°♌42'04		minimum elong	13835 Oct 09 20:59	0°♍48'12	0°34'46	
inferior conj	13833 May 13 10:17	1°♌48'28	7°21'42	max. Earth dist.	13835 Oct 12 03:14	3°♍37'29	1.72015 AU	
minimum elong	13833 May 12 23:50	2°♌04'46	7°18'53		13835 Nov 02 07:14	0°♊		
min. Earth dist.	13833 May 13 10:58	1°♌47'23	0.27841 AU	evening rise	13835 Nov 17 00:18	18°♊16'43		
	13833 May 16 08:17	30°♋♌			13835 Nov 26 11:25	0°♊		
morning rise	13833 May 17 07:34	29°♋24'54			13835 Dec 20 19:41	0°♋		
direct	13833 Jun 03 09:42	23°♋44'10			13836 Jan 14 09:40	0°♋		
greatest brilliancy	13833 Jun 13 12:19	25°♋38'45	-4.9m	desc. node	13836 Jan 15 04:02	0°♋55'42		
	13833 Jun 22 11:01	0°♌			13836 Feb 08 06:24	0°♌		
morning max el	13833 Jul 23 19:28	26°♌21'45	46°55'44		13836 Mar 04 10:57	0°♋		
	13833 Jul 27 09:20	0°♍			13836 Mar 30 02:59	0°♌		
desc. node	13833 Jul 30 18:30	3°♍30'41			13836 Apr 25 18:50	0°♍		
	13833 Aug 23 21:00	0°♎		asc. node	13836 May 07 00:37	11°♍59'55		
	13833 Sep 18 15:07	0°♎		evening max el	13836 May 15 15:51	20°♍47'32	46°30'29	
	13833 Oct 13 16:55	0°♊			13836 May 25 07:26	0°♎		

greatest brilliancy	13836 Jun 25 00:13	21°Ω01'15	-4.9m	minimum elong	13838 Dec 19 12:51	10°☾17'35	1°27'12
retrograde	13836 Jul 04 14:55	22°Ω45'07		max. Earth dist.	13838 Dec 21 12:41	12°☾45'38	1.72889 AU
evening set	13836 Jul 21 09:32	17°Ω18'04			13839 Jan 04 11:15	0°≈	
inferior conj	13836 Jul 25 05:33	14°Ω59'17	7°24'55	evening rise	13839 Jan 25 17:10	26°≈11'39	
minimum elong	13836 Jul 25 16:21	14°Ω42'44	7°22'01		13839 Jan 28 19:24	0°✠	
min. Earth dist.	13836 Jul 25 18:57	14°Ω38'45	0.27132 AU	desc. node	13839 Feb 11 17:52	17°✠07'11	
morning rise	13836 Jul 29 23:05	12°Ω09'31			13839 Feb 22 06:03	0°Υ	
direct	13836 Aug 15 00:33	7°Ω08'44			13839 Mar 18 18:39	0°♄	
greatest brilliancy	13836 Aug 25 02:52	9°Ω04'11	-4.9m		13839 Apr 12 08:59	0°♂	
desc. node	13836 Aug 27 03:40	9°Ω52'25			13839 May 07 02:30	0°☾	
	13836 Sep 24 08:22	0°♍			13839 Jun 01 03:38	0°Ω	
morning max el	13836 Oct 04 07:18	9°♍31'03	46°41'30	asc. node	13839 Jun 04 11:06	3°Ω55'08	
	13836 Oct 23 22:02	0°♊			13839 Jun 26 21:52	0°♍	
	13836 Nov 19 15:56	0°♌			13839 Jul 24 09:24	0°♊	
	13836 Dec 15 08:22	0°♈		evening max el	13839 Jul 28 13:15	4°♊13'50	46°44'51
asc. node	13836 Dec 18 04:07	3°♈20'39			13839 Aug 27 23:38	0°♌	
	13837 Jan 09 11:02	0°☾		greatest brilliancy	13839 Sep 06 01:48	4°♌37'08	-4.9m
	13837 Feb 03 05:10	0°≈		retrograde	13839 Sep 16 20:22	6°♌46'48	
	13837 Feb 27 18:02	0°✠		desc. node	13839 Sep 24 12:51	5°♌35'12	
	13837 Mar 24 03:31	0°Υ		evening set	13839 Oct 01 14:05	2°♌32'21	
morning set	13837 Apr 02 08:34	11°Υ21'56			13839 Oct 05 23:25	30°♌♊	
desc. node	13837 Apr 08 21:08	19°Υ25'38		min. Earth dist.	13839 Oct 07 03:57	29°♊16'26	0.27366 AU
	13837 Apr 17 10:08	0°♄		inferior conj	13839 Oct 07 19:37	28°♊52'25	-3°20'44
max. Earth dist.	13837 May 08 08:45	26°♄00'20	1.72198 AU	minimum elong	13839 Oct 07 12:18	29°♊03'38	3°18'08
				morning rise	13839 Oct 13 11:03	25°♊32'29	
superior conj	13837 May 11 12:55	29°♄57'19	-1°08'55	direct	13839 Oct 28 16:02	21°♊05'30	
minimum elong	13837 May 11 01:57	29°♄23'12	1°09'27	greatest brilliancy	13839 Nov 07 06:05	22°♊45'55	-4.8m
	13837 May 11 13:47	0°♂			13839 Nov 21 05:14	0°♌	
	13837 Jun 04 14:47	0°☾		morning max el	13839 Dec 16 18:50	21°♌28'28	45°57'55
evening rise	13837 Jun 19 23:44	19°☾13'33			13839 Dec 25 08:59	0°♈	
	13837 Jun 28 14:21	0°Ω		asc. node	13840 Jan 15 15:05	22°♈37'10	
	13837 Jul 22 14:16	0°♍			13840 Jan 22 06:15	0°☾	
asc. node	13837 Jul 30 10:31	9°♍47'12			13840 Feb 17 08:52	0°≈	
	13837 Aug 15 16:27	0°♊			13840 Mar 13 15:22	0°✠	
	13837 Sep 08 23:04	0°♌			13840 Apr 07 10:32	0°Υ	
	13837 Oct 03 13:43	0°♈			13840 May 01 22:14	0°♄	
	13837 Oct 28 19:02	0°☾		desc. node	13840 May 06 11:15	5°♄35'54	
desc. node	13837 Nov 19 06:00	24°☾32'18			13840 May 26 04:12	0°♂	
	13837 Nov 24 04:24	0°≈		morning set	13840 Jun 14 22:29	24°♂37'15	
evening max el	13837 Dec 20 17:20	27°≈34'47	45°58'21		13840 Jun 19 05:46	0°☾	
	13837 Dec 23 06:11	0°✠			13840 Jul 13 04:33	0°Ω	
greatest brilliancy	13838 Jan 28 18:09	25°✠57'01	-4.8m				
retrograde	13838 Feb 07 15:59	27°✠43'46		superior conj	13840 Jul 24 20:41	14°Ω38'45	-1°09'59
evening set	13838 Feb 23 03:23	23°✠06'18		minimum elong	13840 Jul 25 08:02	15°Ω14'23	1°10'29
inferior conj	13838 Feb 28 23:11	19°✠34'48	-2°46'09	max. Earth dist.	13840 Jul 24 07:22	13°Ω57'00	1.71448 AU
minimum elong	13838 Mar 01 05:10	19°✠25'22	2°44'06		13840 Aug 06 02:25	0°♍	
min. Earth dist.	13838 Mar 01 08:02	19°✠20'53	0.28466 AU	asc. node	13840 Aug 27 00:52	26°♍14'30	
morning rise	13838 Mar 07 06:43	15°✠46'48			13840 Aug 30 00:56	0°♊	
asc. node	13838 Mar 12 07:59	13°✠22'26		evening rise	13840 Sep 02 22:57	4°♊54'01	
direct	13838 Mar 22 06:32	11°✠23'32			13840 Sep 23 01:24	0°♌	
greatest brilliancy	13838 Apr 02 01:11	13°✠31'55	-4.8m		13840 Oct 17 05:18	0°♈	
	13838 Apr 27 01:16	0°Υ			13840 Nov 10 15:00	0°☾	
morning max el	13838 May 10 22:08	12°Υ54'37	46°18'01		13840 Dec 05 10:02	0°≈	
	13838 May 27 09:18	0°♄		desc. node	13840 Dec 16 17:16	13°≈27'49	
	13838 Jun 23 00:53	0°♂			13840 Dec 30 19:07	0°✠	
desc. node	13838 Jul 02 10:09	10°♂59'42			13841 Jan 26 01:58	0°Υ	
	13838 Jul 18 08:35	0°☾			13841 Feb 23 03:26	0°♄	
	13838 Aug 12 00:59	0°Ω		evening max el	13841 Mar 01 17:24	6°♄31'25	46°01'24
	13838 Sep 05 10:01	0°♍			13841 Mar 29 22:59	0°♂	
	13838 Sep 29 15:56	0°♊		asc. node	13841 Apr 08 17:07	5°♂04'53	
asc. node	13838 Oct 23 04:07	29°♊08'47		greatest brilliancy	13841 Apr 10 05:07	5°♂38'35	-4.8m
	13838 Oct 23 20:38	0°♌		retrograde	13841 Apr 20 01:54	7°♂27'31	
morning set	13838 Nov 12 03:25	23°♌55'37		evening set	13841 May 06 02:17	2°♂27'49	
	13838 Nov 17 00:53	0°♈			13841 May 10 04:32	30°♌♄	
	13838 Dec 11 05:24	0°☾		inferior conj	13841 May 11 00:33	29°♄28'49	7°07'42
				minimum elong	13841 May 10 13:54	29°♄45'25	7°04'44
superior conj	13838 Dec 19 11:55	10°☾14'43	1°26'08	min. Earth dist.	13841 May 11 00:51	29°♄28'21	0.27863 AU






























































































































morning rise	13841 May 15 01:19	27°♄00'21			13843 Dec 20 06:39	0°♁	
direct	13841 Jun 01 00:25	21°♄24'00			13844 Jan 13 20:57	0°♄	
greatest brilliancy	13841 Jun 11 03:22	23°♄19'23	-4.9m	desc. node	13844 Jan 14 05:56	0°♄27'13	
	13841 Jun 23 17:25	0°♄			13844 Feb 07 18:12	0°♄	
morning max el	13841 Jul 21 10:36	24°♄02'44	46°55'14		13844 Mar 03 23:36	0°♄	
	13841 Jul 27 06:14	0°♄			13844 Mar 29 17:10	0°♄	
desc. node	13841 Jul 29 20:27	2°♄43'08			13844 Apr 25 12:19	0°♄	
	13841 Aug 23 12:43	0°♄		asc. node	13844 May 06 02:31	11°♄12'47	
	13841 Sep 18 04:44	0°♄		evening max el	13844 May 13 05:51	18°♄26'58	46°29'21
	13841 Oct 13 05:24	0°♄			13844 May 25 12:07	0°♄	
	13841 Nov 06 22:47	0°♄		greatest brilliancy	13844 Jun 22 13:39	18°♄37'48	-4.9m
asc. node	13841 Nov 19 17:35	15°♄36'06		retrograde	13844 Jul 02 03:36	20°♄20'42	
	13841 Dec 01 11:47	0°♄		evening set	13844 Jul 19 02:04	14°♄48'38	
	13841 Dec 25 21:46	0°♄		inferior conj	13844 Jul 22 18:29	12°♄34'46	7°38'46
	13842 Jan 19 05:59	0°♄		minimum elong	13844 Jul 23 04:57	12°♄18'40	7°36'02
morning set	13842 Jan 20 13:16	1°♄36'28		min. Earth dist.	13844 Jul 23 07:59	12°♄14'01	0.27159 AU
	13842 Feb 12 13:37	0°♄		morning rise	13844 Jul 27 07:45	9°♄50'37	
				direct	13844 Aug 12 13:52	4°♄43'49	
superior conj	13842 Feb 26 15:18	17°♄21'31	0°30'08	greatest brilliancy	13844 Aug 22 15:45	6°♄38'40	-4.9m
minimum elong	13842 Feb 26 21:50	17°♄41'40	0°30'10	desc. node	13844 Aug 26 05:48	8°♄08'28	
max. Earth dist.	13842 Feb 26 06:51	16°♄55'25	1.73099 AU		13844 Sep 24 11:45	0°♄	
	13842 Mar 08 21:10	0°♄		morning max el	13844 Oct 01 20:34	7°♄07'44	46°42'43
desc. node	13842 Mar 11 08:24	3°♄02'44			13844 Oct 23 15:29	0°♄	
	13842 Apr 02 04:16	0°♄			13844 Nov 19 06:08	0°♄	
evening rise	13842 Apr 05 19:36	4°♄29'54			13844 Dec 14 20:58	0°♄	
	13842 Apr 26 10:18	0°♄		asc. node	13844 Dec 17 06:02	2°♄49'18	
	13842 May 20 15:27	0°♄			13845 Jan 08 22:43	0°♄	
	13842 Jun 13 21:13	0°♄			13845 Feb 02 16:19	0°♄	
asc. node	13842 Jul 01 23:05	22°♄16'14			13845 Feb 27 04:55	0°♄	
	13842 Jul 08 06:22	0°♄			13845 Mar 23 14:15	0°♄	
	13842 Aug 01 22:58	0°♄		morning set	13845 Mar 30 23:31	9°♄06'54	
	13842 Aug 27 06:12	0°♄		desc. node	13845 Apr 07 22:57	18°♄58'16	
	13842 Sep 22 21:04	0°♄			13845 Apr 16 20:47	0°♄	
evening max el	13842 Oct 08 02:51	15°♄50'45	46°24'53	max. Earth dist.	13845 May 05 19:50	23°♄32'24	1.72235 AU
desc. node	13842 Oct 21 22:00	28°♄43'26					
	13842 Oct 23 09:45	0°♄		superior conj	13845 May 09 02:30	27°♄37'08	-1°06'36
greatest brilliancy	13842 Nov 16 10:10	15°♄26'52	-4.8m	minimum elong	13845 May 08 15:25	27°♄02'37	1°07'04
retrograde	13842 Nov 26 23:53	17°♄29'44			13845 May 11 00:25	0°♄	
evening set	13842 Dec 15 10:02	11°♄06'28			13845 Jun 04 01:28	0°♄	
inferior conj	13842 Dec 18 10:20	9°♄14'35	-8°51'08	evening rise	13845 Jun 17 11:58	16°♄48'04	
minimum elong	13842 Dec 18 11:10	9°♄13'17	8°50'04		13845 Jun 28 01:09	0°♄	
min. Earth dist.	13842 Dec 18 02:26	9°♄26'55	0.28755 AU		13845 Jul 22 01:15	0°♄	
morning rise	13842 Dec 21 12:25	7°♄20'18		asc. node	13845 Jul 29 12:29	9°♄18'56	
direct	13843 Jan 08 17:37	1°♄06'44			13845 Aug 15 03:40	0°♄	
greatest brilliancy	13843 Jan 18 20:30	2°♄58'53	-4.7m		13845 Sep 08 10:39	0°♄	
asc. node	13843 Feb 12 00:51	18°♄09'35			13845 Oct 03 01:55	0°♄	
	13843 Feb 25 04:24	0°♄			13845 Oct 28 08:25	0°♄	
morning max el	13843 Feb 26 19:15	1°♄33'44	45°44'26	desc. node	13845 Nov 18 07:53	23°♄55'07	
	13843 Mar 25 22:58	0°♄			13845 Nov 23 20:19	0°♄	
	13843 Apr 21 06:42	0°♄		evening max el	13845 Dec 18 07:37	25°♄20'05	45°58'53
	13843 May 16 13:29	0°♄			13845 Dec 23 05:58	0°♄	
desc. node	13843 Jun 04 00:15	22°♄21'24		greatest brilliancy	13846 Jan 26 10:14	23°♄46'09	-4.8m
	13843 Jun 10 06:15	0°♄		retrograde	13846 Feb 05 06:45	25°♄32'11	
	13843 Jul 04 14:05	0°♄		evening set	13846 Feb 20 21:03	20°♄51'35	
	13843 Jul 28 16:33	0°♄		inferior conj	13846 Feb 26 14:53	17°♄22'59	-3°06'04
	13843 Aug 21 16:32	0°♄		minimum elong	13846 Feb 26 21:31	17°♄12'34	3°03'49
morning set	13843 Aug 29 12:19	9°♄47'14		min. Earth dist.	13846 Feb 27 00:22	17°♄08'05	0.28492 AU
	13843 Sep 14 16:07	0°♄		morning rise	13846 Mar 04 21:38	13°♄35'44	
asc. node	13843 Sep 24 15:31	12°♄28'13		asc. node	13846 Mar 11 10:01	10°♄38'30	
				direct	13846 Mar 19 21:54	9°♄11'25	
superior conj	13843 Oct 07 18:36	28°♄52'07	0°31'19	greatest brilliancy	13846 Mar 30 17:53	11°♄20'30	-4.8m
minimum elong	13843 Oct 07 11:26	28°♄29'46	0°31'23		13846 Apr 27 05:41	0°♄	
	13843 Oct 08 16:21	0°♄		morning max el	13846 May 08 12:21	10°♄37'29	46°16'32
max. Earth dist.	13843 Oct 09 19:18	1°♄24'05	1.71981 AU		13846 May 27 02:21	0°♄	
	13843 Nov 01 18:00	0°♄			13846 Jun 22 14:46	0°♄	
evening rise	13843 Nov 14 15:57	16°♄02'58		desc. node	13846 Jul 01 12:06	10°♄26'14	
	13843 Nov 25 22:13	0°♄			13846 Jul 17 21:04	0°♄	

	13846 Aug 11 12:43	0°♌	evening max el	13849 Feb 27 08:40	4°♏18'08	46°00'53
	13846 Sep 04 21:18	0°♍		13849 Mar 31 09:57	0°♐	
	13846 Sep 29 02:54	0°♎	greatest brilliancy	13849 Apr 07 17:57	3°♐19'53	-4.8m
asc. node	13846 Oct 22 05:51	28°♎40'48	asc. node	13849 Apr 07 19:01	3°♐20'49	
	13846 Oct 23 07:23	0°♏	retrograde	13849 Apr 17 16:34	5°♐10'05	
morning set	13846 Nov 09 18:34	21°♏40'47	evening set	13849 May 03 13:01	0°♐15'04	
	13846 Nov 16 11:28	0°♐		13849 May 03 23:31	30°♑♏	
	13846 Dec 10 15:53	0°♑	inferior conj	13849 May 08 14:54	27°♏10'43	6°53'03
			minimum elong	13849 May 08 04:08	27°♏27'29	6°49'59
superior conj	13846 Dec 17 04:31	8°♑05'06 1°26'14	min. Earth dist.	13849 May 08 14:32	27°♏11'17	0.27880 AU
minimum elong	13846 Dec 17 04:39	8°♑05'32 1°27'17	morning rise	13849 May 12 19:07	24°♏37'21	
max. Earth dist.	13846 Dec 19 03:40	10°♑31'06 1.72863 AU	direct	13849 May 29 15:32	19°♏05'45	
	13847 Jan 03 21:43	0°♒	greatest brilliancy	13849 Jun 08 17:48	21°♏01'00	-4.9m
evening rise	13847 Jan 23 09:11	24°♒00'57		13849 Jun 24 14:33	0°♐	
	13847 Jan 28 05:56	0°♓	morning max el	13849 Jul 19 01:58	21°♐45'59	46°54'33
desc. node	13847 Feb 10 19:44	16°♓40'24		13849 Jul 27 01:53	0°♑	
	13847 Feb 21 16:45	0°♑	desc. node	13849 Jul 28 22:29	1°♑57'58	
	13847 Mar 18 05:39	0°♒		13849 Aug 23 03:42	0°♌	
	13847 Apr 11 20:27	0°♐		13849 Sep 17 17:46	0°♍	
	13847 May 06 14:41	0°♑		13849 Oct 12 17:22	0°♎	
	13847 May 31 16:56	0°♌		13849 Nov 06 10:05	0°♏	
asc. node	13847 Jun 03 13:02	3°♌21'00	asc. node	13849 Nov 18 19:31	15°♏08'14	
	13847 Jun 26 13:20	0°♍		13849 Nov 30 22:38	0°♐	
	13847 Jul 24 06:28	0°♎		13849 Dec 25 08:20	0°♑	
evening max el	13847 Jul 26 02:16	1°♎50'32 46°45'01	morning set	13850 Jan 18 06:21	29°♑29'05	
	13847 Aug 29 16:13	0°♏		13850 Jan 18 16:23	0°♒	
greatest brilliancy	13847 Sep 03 16:32	2°♏17'01 -4.9m		13850 Feb 11 23:58	0°♓	
retrograde	13847 Sep 14 10:07	4°♏26'24				
desc. node	13847 Sep 23 14:43	2°♏44'03	superior conj	13850 Feb 24 07:13	15°♓10'30	0°33'19
evening set	13847 Sep 29 02:39	0°♏13'24	minimum elong	13850 Feb 24 14:19	15°♓32'24	0°33'22
	13847 Sep 29 12:34	30°♑♎	max. Earth dist.	13850 Feb 24 03:05	14°♓57'45	1.73110 AU
inferior conj	13847 Oct 05 09:12	26°♎32'43 -2°58'58		13850 Mar 08 07:34	0°♑	
minimum elong	13847 Oct 05 02:34	26°♎42'51 2°56'35	desc. node	13850 Mar 10 10:10	2°♑36'05	
min. Earth dist.	13847 Oct 04 18:40	26°♎54'57 0.27325 AU		13850 Apr 01 14:46	0°♒	
morning rise	13847 Oct 11 02:56	23°♎09'49	evening rise	13850 Apr 03 10:42	2°♒15'44	
direct	13847 Oct 26 04:48	18°♎45'55		13850 Apr 25 20:58	0°♐	
greatest brilliancy	13847 Nov 04 20:28	20°♎27'47 -4.8m		13850 May 20 02:21	0°♑	
	13847 Nov 22 02:05	0°♏		13850 Jun 13 08:28	0°♌	
morning max el	13847 Dec 14 08:54	19°♏11'51 45°59'13	asc. node	13850 Jul 01 01:04	21°♌46'39	
	13847 Dec 25 04:21	0°♐		13850 Jul 07 18:09	0°♍	
asc. node	13848 Jan 14 17:07	22°♐00'14		13850 Aug 01 11:37	0°♎	
	13848 Jan 21 20:50	0°♑		13850 Aug 26 20:22	0°♏	
	13848 Feb 16 21:30	0°♒		13850 Sep 22 14:43	0°♐	
	13848 Mar 13 03:00	0°♓	evening max el	13850 Oct 05 18:54	13°♐38'03	46°25'59
	13848 Apr 06 21:37	0°♑	desc. node	13850 Oct 20 23:57	27°♐43'43	
	13848 May 01 09:01	0°♒		13850 Oct 23 17:30	0°♑	
desc. node	13848 May 05 12:58	5°♒08'00	greatest brilliancy	13850 Nov 14 00:40	13°♑13'45	-4.8m
	13848 May 25 14:51	0°♐	retrograde	13850 Nov 24 15:51	15°♑17'35	
morning set	13848 Jun 12 10:09	22°♐10'43	evening set	13850 Dec 13 01:03	8°♑55'25	
	13848 Jun 18 16:21	0°♑	min. Earth dist.	13850 Dec 15 16:28	7°♑17'19	0.28728 AU
	13848 Jul 12 15:06	0°♌	inferior conj	13850 Dec 16 01:49	7°♑02'43	-8°51'47
max. Earth dist.	13848 Jul 21 16:32	11°♌22'05 1.71452 AU	minimum elong	13850 Dec 16 01:50	7°♑02'41	8°50'43
			morning rise	13850 Dec 19 02:46	5°♑10'09	
superior conj	13848 Jul 22 08:37	12°♌12'34 -1°12'15		13850 Dec 30 01:41	30°♑♐	
minimum elong	13848 Jul 22 19:41	12°♌47'16 1°12'47	direct	13851 Jan 06 09:31	28°♐55'42	
	13848 Aug 05 12:57	0°♍		13851 Jan 13 23:19	0°♑	
asc. node	13848 Aug 26 02:42	25°♍47'16	greatest brilliancy	13851 Jan 16 09:53	0°♑45'50	-4.7m
	13848 Aug 29 11:28	0°♎	asc. node	13851 Feb 11 02:51	17°♑10'40	
evening rise	13848 Aug 31 11:55	2°♎31'30	morning max el	13851 Feb 24 10:26	29°♑21'25	45°43'53
	13848 Sep 22 12:01	0°♏		13851 Feb 25 02:18	0°♒	
	13848 Oct 16 16:05	0°♐		13851 Mar 25 14:16	0°♓	
	13848 Nov 10 02:06	0°♑		13851 Apr 20 19:44	0°♑	
	13848 Dec 04 21:42	0°♒		13851 May 16 01:28	0°♒	
desc. node	13848 Dec 15 19:11	12°♒57'46	desc. node	13851 Jun 03 02:15	21°♒52'26	
	13848 Dec 30 07:50	0°♓		13851 Jun 09 17:38	0°♐	
	13849 Jan 25 16:50	0°♑		13851 Jul 04 01:06	0°♑	
	13849 Feb 22 23:43	0°♒		13851 Jul 28 03:21	0°♌	

	13851 Aug 21 03:13	0°♍		minimum elong	13854 Feb 24 13:47	14°♋59'44	3°23'13
morning set	13851 Aug 27 01:10	7°♍23'59		min. Earth dist.	13854 Feb 24 16:33	14°♋55'23	0.28519 AU
	13851 Sep 14 02:43	0°♌		morning rise	13854 Mar 02 12:23	11°♋25'04	
asc. node	13851 Sep 23 17:14	12°♌00'37		asc. node	13854 Mar 10 11:52	7°♋59'22	
				direct	13854 Mar 17 13:12	6°♋59'06	
superior conj	13851 Oct 05 08:27	26°♌32'36	0°27'52	greatest brilliancy	13854 Mar 28 10:40	9°♋09'18	-4.8m
minimum elong	13851 Oct 05 01:58	26°♌12'21	0°27'56		13854 Apr 27 08:25	0°♐	
max. Earth dist.	13851 Oct 07 10:21	29°♌08'23	1.71949 AU	morning max el	13854 May 06 02:59	8°♐21'18	46°15'02
	13851 Oct 08 02:53	0°♍			13854 May 26 19:08	0°♏	
	13851 Nov 01 04:31	0°♎			13854 Jun 22 04:40	0°♐	
evening rise	13851 Nov 12 07:37	13°♎49'55		desc. node	13854 Jun 30 14:04	9°♐52'29	
	13851 Nov 25 08:46	0°♏			13854 Jul 17 09:40	0°♑	
	13851 Dec 19 17:21	0°♐			13854 Aug 11 00:37	0°♒	
desc. node	13852 Jan 13 07:53	29°♐59'40			13854 Sep 04 08:45	0°♓	
	13852 Jan 13 08:00	0°♑			13854 Sep 28 14:01	0°♌	
	13852 Feb 07 05:48	0°♐		asc. node	13854 Oct 21 07:44	28°♌12'58	
	13852 Mar 03 12:08	0°♏			13854 Oct 22 18:14	0°♍	
	13852 Mar 29 07:22	0°♐		morning set	13854 Nov 07 09:30	19°♍24'45	
	13852 Apr 25 06:08	0°♑			13854 Nov 15 22:10	0°♎	
asc. node	13852 May 05 04:29	10°♑25'20			13854 Dec 10 02:31	0°♏	
evening max el	13852 May 10 18:54	16°♑04'14	46°28'13				
	13852 May 25 18:50	0°♒		superior conj	13854 Dec 14 21:01	5°♏54'43	1°26'12
greatest brilliancy	13852 Jun 20 03:33	16°♒15'07	-4.9m	minimum elong	13854 Dec 14 20:22	5°♏52'41	1°27'16
retrograde	13852 Jun 29 15:49	17°♒56'41		max. Earth dist.	13854 Dec 16 19:01	8°♏17'11	1.72840 AU
evening set	13852 Jul 16 18:34	12°♒19'33			13855 Jan 03 08:22	0°♐	
inferior conj	13852 Jul 20 07:25	10°♒10'45	7°51'46	evening rise	13855 Jan 21 01:19	21°♐50'01	
minimum elong	13852 Jul 20 17:29	9°♒55'14	7°49'11		13855 Jan 27 16:40	0°♑	
min. Earth dist.	13852 Jul 20 21:15	9°♒49'26	0.27184 AU	desc. node	13855 Feb 09 21:29	16°♑12'36	
morning rise	13852 Jul 24 16:19	7°♒32'28			13855 Feb 21 03:39	0°♐	
direct	13852 Aug 10 02:39	2°♒19'17			13855 Mar 17 16:52	0°♏	
greatest brilliancy	13852 Aug 20 05:03	4°♒14'11	-4.9m		13855 Apr 11 08:08	0°♐	
desc. node	13852 Aug 25 07:43	6°♒28'40			13855 May 06 03:06	0°♑	
	13852 Sep 24 13:22	0°♓			13855 May 31 06:36	0°♒	
morning max el	13852 Sep 29 08:58	4°♓42'39	46°43'57	asc. node	13855 Jun 02 15:01	2°♒46'05	
	13852 Oct 23 08:22	0°♌			13855 Jun 26 05:24	0°♓	
	13852 Nov 18 20:00	0°♍		evening max el	13855 Jul 23 15:50	29°♓27'29	46°45'07
	13852 Dec 14 09:20	0°♎			13855 Jul 24 04:50	0°♌	
asc. node	13852 Dec 16 07:59	2°♎18'37		greatest brilliancy	13855 Sep 01 06:42	29°♌54'33	-4.9m
	13853 Jan 08 10:14	0°♏			13855 Sep 01 12:27	0°♍	
	13853 Feb 02 03:20	0°♐		retrograde	13855 Sep 12 00:13	2°♍04'06	
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morning set	13853 Mar 28 14:32	6°♐52'23		evening set	13855 Sep 26 15:13	27°♌52'13	
desc. node	13853 Apr 07 00:43	18°♐31'03		inferior conj	13855 Oct 02 22:30	24°♌10'58	-2°36'36
	13853 Apr 16 07:22	0°♏		minimum elong	13855 Oct 02 16:37	24°♌19'57	2°34'27
max. Earth dist.	13853 May 03 08:22	21°♏09'12	1.72280 AU	min. Earth dist.	13855 Oct 02 08:51	24°♌31'49	0.27282 AU
				morning rise	13855 Oct 08 18:29	20°♌45'32	
superior conj	13853 May 06 15:58	25°♏16'39	-1°04'09	direct	13855 Oct 23 17:47	16°♌24'26	
minimum elong	13853 May 06 04:47	24°♏41'55	1°04'34	greatest brilliancy	13855 Nov 02 10:06	18°♌07'20	-4.8m
	13853 May 10 11:03	0°♐			13855 Nov 22 18:05	0°♍	
	13853 Jun 03 12:11	0°♑		morning max el	13855 Dec 11 23:27	16°♍55'28	46°00'33
evening rise	13853 Jun 14 23:56	14°♑21'42			13855 Dec 24 23:30	0°♎	
	13853 Jun 27 11:59	0°♒		asc. node	13856 Jan 13 19:03	21°♎22'37	
	13853 Jul 21 12:14	0°♓			13856 Jan 21 11:31	0°♏	
asc. node	13853 Jul 28 14:15	8°♓50'03			13856 Feb 16 10:20	0°♐	
	13853 Aug 14 14:52	0°♌			13856 Mar 12 14:53	0°♑	
	13853 Sep 07 22:14	0°♍			13856 Apr 06 08:59	0°♐	
	13853 Oct 02 14:10	0°♎			13856 Apr 30 20:06	0°♏	
	13853 Oct 27 21:55	0°♏		desc. node	13856 May 04 14:58	4°♏40'06	
desc. node	13853 Nov 17 09:53	23°♏17'52			13856 May 25 01:47	0°♐	
	13853 Nov 23 12:34	0°♐		morning set	13856 Jun 09 22:08	19°♐44'20	
evening max el	13853 Dec 15 21:25	23°♐04'09	45°59'29		13856 Jun 18 03:14	0°♑	
	13853 Dec 23 07:00	0°♑			13856 Jul 12 01:58	0°♒	
greatest brilliancy	13854 Jan 24 01:55	21°♑34'45	-4.8m	max. Earth dist.	13856 Jul 19 03:36	8°♒52'06	1.71462 AU
retrograde	13854 Feb 02 21:48	23°♑20'42					
evening set	13854 Feb 18 14:47	18°♑36'28		superior conj	13856 Jul 19 20:33	9°♒45'15	-1°14'21
inferior conj	13854 Feb 24 06:34	15°♑11'04	-3°25'40	minimum elong	13856 Jul 20 07:12	10°♒18'41	1°14'57

	13856 Aug 04 23:50	0°♎	greatest brilliancy	13859 Jan 13 23:34	28°♊31'34	-4.7m
asc. node	13856 Aug 25 04:28	25°♎18'33		13859 Jan 17 15:42	0°♊	
	13856 Aug 28 22:25	0°♊	asc. node	13859 Feb 10 04:46	16°♊11'39	
evening rise	13856 Aug 29 00:33	0°♊06'43	morning max el	13859 Feb 22 00:40	27°♊05'30	45°43'28
	13856 Sep 21 23:03	0°♌		13859 Feb 24 23:51	0°♌	
	13856 Oct 16 03:17	0°♊		13859 Mar 25 05:44	0°♌	
	13856 Nov 09 13:37	0°♊		13859 Apr 20 09:02	0°♌	
	13856 Dec 04 09:48	0°♌		13859 May 15 13:44	0°♌	
desc. node	13856 Dec 14 21:08	12°♌26'33	desc. node	13859 Jun 02 04:04	21°♌21'55	
	13856 Dec 29 21:04	0°♌		13859 Jun 09 05:20	0°♌	
	13857 Jan 25 08:21	0°♌		13859 Jul 03 12:28	0°♌	
	13857 Feb 22 21:14	0°♌		13859 Jul 27 14:29	0°♌	
evening max el	13857 Feb 25 00:27	2°♌04'59 46°00'18		13859 Aug 20 14:12	0°♌	
	13857 Apr 02 16:56	0°♌	morning set	13859 Aug 24 14:19	5°♌00'44	
greatest brilliancy	13857 Apr 05 07:22	1°♌00'59 -4.8m		13859 Sep 13 13:35	0°♌	
asc. node	13857 Apr 06 21:06	1°♌31'58	asc. node	13859 Sep 22 19:08	11°♌32'41	
retrograde	13857 Apr 15 07:14	2°♌51'38				
	13857 Apr 27 05:03	30°♌	superior conj	13859 Oct 02 22:35	24°♌13'06	0°24'25
evening set	13857 May 01 00:02	28°♌01'30	minimum elong	13859 Oct 02 16:49	23°♌55'06	0°24'28
inferior conj	13857 May 06 05:19	24°♌51'55 6°37'43	max. Earth dist.	13859 Oct 05 00:20	26°♌48'27	1.71917 AU
minimum elong	13857 May 05 18:32	25°♌08'46 6°34'35		13859 Oct 07 13:42	0°♌	
min. Earth dist.	13857 May 06 04:26	24°♌53'17 0.27893 AU		13859 Oct 31 15:19	0°♌	
morning rise	13857 May 10 12:54	22°♌13'33	evening rise	13859 Nov 09 23:24	11°♌36'17	
direct	13857 May 27 06:43	16°♌47'00		13859 Nov 24 19:38	0°♊	
greatest brilliancy	13857 Jun 06 08:03	18°♌41'33 -4.9m		13859 Dec 19 04:26	0°♌	
	13857 Jun 25 06:34	0°♌	desc. node	13860 Jan 12 09:37	29°♌30'21	
morning max el	13857 Jul 16 16:43	19°♌26'50 46°53'48		13860 Jan 12 19:25	0°♌	
	13857 Jul 26 21:18	0°♌		13860 Feb 06 17:48	0°♌	
desc. node	13857 Jul 28 00:24	1°♌12'18		13860 Mar 03 01:05	0°♌	
	13857 Aug 22 18:50	0°♌		13860 Mar 28 22:04	0°♌	
	13857 Sep 17 07:06	0°♌		13860 Apr 25 00:45	0°♌	
	13857 Oct 12 05:43	0°♌	asc. node	13860 May 04 06:32	9°♌36'23	
	13857 Nov 05 21:48	0°♌	evening max el	13860 May 08 07:08	13°♌38'40	46°27'06
asc. node	13857 Nov 17 21:28	14°♌39'07		13860 May 26 04:34	0°♌	
	13857 Nov 30 09:56	0°♌	greatest brilliancy	13860 Jun 17 17:35	13°♌51'49	-4.9m
	13857 Dec 24 19:19	0°♊	retrograde	13860 Jun 27 04:09	15°♌32'20	
morning set	13858 Jan 15 23:21	27°♊20'08	evening set	13860 Jul 14 11:02	9°♌49'59	
	13858 Jan 18 03:11	0°♌	inferior conj	13860 Jul 17 20:28	7°♌46'14	8°03'43
	13858 Feb 11 10:43	0°♌	minimum elong	13860 Jul 18 06:04	7°♌31'26	8°01'20
			min. Earth dist.	13860 Jul 18 10:44	7°♌24'15	0.27210 AU
superior conj	13858 Feb 21 23:11	12°♌58'33 0°36'27	morning rise	13860 Jul 22 00:58	5°♌14'07	
minimum elong	13858 Feb 22 06:48	13°♌22'00 0°36'30		13860 Aug 05 09:51	30°♌	
max. Earth dist.	13858 Feb 21 22:23	12°♌56'02 1.73119 AU	direct	13860 Aug 07 15:13	29°♌54'01	
	13858 Mar 07 18:22	0°♌		13860 Aug 09 21:07	0°♌	
desc. node	13858 Mar 09 11:58	2°♌08'19	greatest brilliancy	13860 Aug 17 18:47	1°♌49'37	-4.9m
evening rise	13858 Apr 01 01:54	0°♌00'38	desc. node	13860 Aug 24 09:40	4°♌52'01	
	13858 Apr 01 01:42	0°♌		13860 Sep 24 13:56	0°♌	
	13858 Apr 25 08:03	0°♌	morning max el	13860 Sep 26 21:48	2°♌17'57	46°45'22
	13858 May 19 13:40	0°♌		13860 Oct 23 01:04	0°♌	
	13858 Jun 12 20:07	0°♌		13860 Nov 18 09:53	0°♌	
asc. node	13858 Jun 30 02:55	21°♌15'27		13860 Dec 13 21:49	0°♌	
	13858 Jul 07 06:19	0°♌	asc. node	13860 Dec 15 09:50	1°♌47'09	
	13858 Aug 01 00:39	0°♌		13861 Jan 07 21:55	0°♊	
	13858 Aug 26 11:03	0°♌		13861 Feb 01 14:34	0°♌	
	13858 Sep 22 09:15	0°♌		13861 Feb 26 02:38	0°♌	
evening max el	13858 Oct 03 10:25	11°♌22'32 46°26'51		13861 Mar 22 11:42	0°♌	
desc. node	13858 Oct 20 02:01	26°♌41'27	morning set	13861 Mar 26 05:39	4°♌37'29	
	13858 Oct 24 04:54	0°♊	desc. node	13861 Apr 06 02:39	18°♌03'39	
greatest brilliancy	13858 Nov 11 15:52	10°♊59'47 -4.8m		13861 Apr 15 18:10	0°♌	
retrograde	13858 Nov 22 07:20	13°♊03'43	max. Earth dist.	13861 Apr 30 23:47	18°♌54'20	1.72322 AU
evening set	13858 Dec 10 15:38	6°♊43'36				
inferior conj	13858 Dec 13 17:17	4°♊49'23 -8°51'33	superior conj	13861 May 04 05:27	22°♌55'46	-1°01'35
minimum elong	13858 Dec 13 16:28	4°♊50'39 8°50'29	minimum elong	13861 May 03 18:18	22°♌21'04	1°01'58
min. Earth dist.	13858 Dec 13 06:49	5°♊05'45 0.28698 AU		13861 May 09 21:51	0°♌	
morning rise	13858 Dec 16 17:28	2°♊57'52		13861 Jun 02 23:05	0°♌	
	13858 Dec 22 01:59	30°♌	evening rise	13861 Jun 12 12:08	11°♌55'34	
direct	13859 Jan 04 01:01	26°♌43'14		13861 Jun 26 23:02	0°♌	

	13861 Jul 20 23:27	0°♍			13864 Mar 12 02:33	0°♋		
asc. node	13861 Jul 27 16:04	8°♍20'37			13864 Apr 05 20:10	0°♍		
	13861 Aug 14 02:18	0°♌			13864 Apr 30 07:03	0°♌		
	13861 Sep 07 10:01	0°♍		desc. node	13864 May 03 16:48	4°♌12'04		
	13861 Oct 02 02:36	0°♎			13864 May 24 12:37	0°♍		
	13861 Oct 27 11:37	0°♏		morning set	13864 Jun 07 09:59	17°♍17'56		
desc. node	13861 Nov 16 11:51	22°♏40'02			13864 Jun 17 14:00	0°♏		
	13861 Nov 23 05:10	0°♏			13864 Jul 11 12:42	0°♏		
evening max el	13861 Dec 13 11:42	20°♏49'19 46°00'03		max. Earth dist.	13864 Jul 16 14:26	6°♏21'48 1.71468 AU		
	13861 Dec 23 09:31	0°♋						
greatest brilliancy	13862 Jan 21 17:04	19°♋22'40 -4.8m		superior conj	13864 Jul 17 08:16	7°♏17'44 -1°16'19		
retrograde	13862 Jan 31 13:31	21°♋09'17		minimum elong	13864 Jul 17 18:26	7°♏49'39 1°16'59		
evening set	13862 Feb 16 08:43	16°♋21'07			13864 Aug 04 10:33	0°♍		
inferior conj	13862 Feb 21 22:19	12°♋59'00 -3°44'48		asc. node	13864 Aug 24 06:22	24°♍50'46		
minimum elong	13862 Feb 22 06:06	12°♋46'49 3°42'13		evening rise	13864 Aug 26 12:58	27°♍41'38		
min. Earth dist.	13862 Feb 22 08:31	12°♋43'02 0.28550 AU			13864 Aug 28 09:11	0°♌		
morning rise	13862 Feb 28 03:06	9°♋14'45			13864 Sep 21 09:56	0°♍		
asc. node	13862 Mar 09 13:59	5°♋25'00			13864 Oct 15 14:22	0°♎		
direct	13862 Mar 15 04:55	4°♋46'39			13864 Nov 09 01:01	0°♏		
greatest brilliancy	13862 Mar 26 03:17	6°♋57'49 -4.8m			13864 Dec 03 21:47	0°♏		
	13862 Apr 27 09:49	0°♍		desc. node	13864 Dec 13 22:59	11°♏55'29		
morning max el	13862 May 03 18:43	6°♍07'35 46°13'33			13864 Dec 29 10:10	0°♋		
	13862 May 26 11:41	0°♌			13865 Jan 24 23:48	0°♍		
	13862 Jun 21 18:30	0°♍		evening max el	13865 Feb 22 16:00	29°♍52'19 45°59'40		
desc. node	13862 Jun 29 15:57	9°♍18'32			13865 Feb 22 19:11	0°♌		
	13862 Jul 16 22:16	0°♏		greatest brilliancy	13865 Apr 02 21:23	28°♌43'54 -4.8m		
	13862 Aug 10 12:32	0°♏		asc. node	13865 Apr 05 23:04	29°♌39'53		
	13862 Sep 03 20:13	0°♍			13865 Apr 07 10:09	0°♍		
	13862 Sep 28 01:09	0°♌		retrograde	13865 Apr 12 21:24	0°♍34'14		
asc. node	13862 Oct 20 09:38	27°♌45'02			13865 Apr 18 04:53	30°♌		
	13862 Oct 22 05:07	0°♍		evening set	13865 Apr 28 11:21	25°♌48'52		
morning set	13862 Nov 05 00:40	17°♍09'21		inferior conj	13865 May 03 19:51	22°♌34'21 6°21'48		
	13862 Nov 15 08:52	0°♎		minimum elong	13865 May 03 09:05	22°♌51'11 6°18'36		
	13862 Dec 09 13:08	0°♏		min. Earth dist.	13865 May 03 18:49	22°♌35'58 0.27909 AU		
				morning rise	13865 May 08 06:43	19°♌50'52		
superior conj	13862 Dec 12 13:49	3°♏45'16 1°26'01		direct	13865 May 24 21:46	14°♌29'24		
minimum elong	13862 Dec 12 12:23	3°♏40'51 1°27'06		greatest brilliancy	13865 Jun 03 22:54	16°♌23'32 -4.8m		
max. Earth dist.	13862 Dec 14 12:33	6°♏10'01 1.72816 AU			13865 Jun 25 18:12	0°♍		
	13863 Jan 02 18:58	0°♏		morning max el	13865 Jul 14 06:40	17°♍06'12 46°52'55		
evening rise	13863 Jan 18 17:50	19°♏40'24			13865 Jul 26 15:58	0°♏		
	13863 Jan 27 03:21	0°♋		desc. node	13865 Jul 27 02:24	0°♏28'03		
desc. node	13863 Feb 08 23:23	15°♋45'19			13865 Aug 22 09:32	0°♏		
	13863 Feb 20 14:33	0°♍			13865 Sep 16 20:04	0°♍		
	13863 Mar 17 04:06	0°♌			13865 Oct 11 17:43	0°♌		
	13863 Apr 10 19:52	0°♍			13865 Nov 05 09:12	0°♍		
	13863 May 05 15:36	0°♏		asc. node	13865 Nov 16 23:12	14°♍10'18		
	13863 May 30 20:22	0°♏			13865 Nov 29 20:54	0°♎		
asc. node	13863 Jun 01 16:53	2°♏10'45			13865 Dec 24 06:00	0°♏		
	13863 Jun 25 21:41	0°♍		morning set	13866 Jan 13 16:23	25°♏12'10		
evening max el	13863 Jul 21 06:13	27°♍06'48 46°45'10			13866 Jan 17 13:42	0°♏		
	13863 Jul 24 04:04	0°♌			13866 Feb 10 21:09	0°♋		
greatest brilliancy	13863 Aug 29 20:38	27°♌31'58 -4.9m						
retrograde	13863 Sep 09 14:37	29°♌41'40		superior conj	13866 Feb 19 15:28	10°♋48'33 0°39'29		
desc. node	13863 Sep 21 18:50	26°♌42'49		minimum elong	13866 Feb 19 23:32	11°♋13'26 0°39'34		
evening set	13863 Sep 24 04:01	25°♌30'49		max. Earth dist.	13866 Feb 19 16:17	10°♋51'02 1.73123 AU		
inferior conj	13863 Sep 30 11:44	21°♌49'02 -2°13'52			13866 Mar 07 04:50	0°♍		
minimum elong	13863 Sep 30 06:39	21°♌56'48 2°11'58		desc. node	13866 Mar 08 13:54	1°♍41'59		
min. Earth dist.	13863 Sep 29 22:46	22°♌08'47 0.27242 AU		evening rise	13866 Mar 29 17:21	27°♍47'31		
morning rise	13863 Oct 06 09:48	18°♌21'16			13866 Mar 31 12:16	0°♌		
direct	13863 Oct 21 07:10	14°♌02'55			13866 Apr 24 18:48	0°♍		
greatest brilliancy	13863 Oct 30 23:10	15°♌46'07 -4.8m			13866 May 19 00:40	0°♏		
	13863 Nov 23 05:56	0°♍			13866 Jun 12 07:30	0°♏		
morning max el	13863 Dec 09 14:16	14°♍39'59 46°02'00		asc. node	13866 Jun 29 04:45	20°♏44'58		
	13863 Dec 24 18:00	0°♎			13866 Jul 06 18:18	0°♍		
asc. node	13864 Jan 12 20:57	20°♎45'41			13866 Jul 31 13:34	0°♌		
	13864 Jan 21 01:51	0°♏			13866 Aug 26 01:40	0°♍		
	13864 Feb 15 22:54	0°♏			13866 Sep 22 04:00	0°♎		

evening max el	13866 Oct 01 00:45	9°  04'39	46°27'47			13869 Mar 21 22:14	0° 	
desc. node	13866 Oct 19 03:56	25°  38'04		morning set		13869 Mar 23 20:50	2°  23'43	
	13866 Oct 24 19:48	0° 		desc. node		13869 Apr 05 04:26	17°  36'43	
greatest brilliancy	13866 Nov 09 07:23	8°  346'33	-4.8m			13869 Apr 15 04:38	0° 	
retrograde	13866 Nov 19 22:19	10°  350'15		max. Earth dist.		13869 Apr 28 16:36	16°  344'53	1.72359 AU
evening set	13866 Dec 08 05:38	4°  332'44						
inferior conj	13866 Dec 11 08:36	2°  336'29	-8°50'36	superior conj		13869 May 01 19:05	20°  336'17	-0°58'55
minimum elong	13866 Dec 11 06:55	2°  339'07	8°49'30	minimum elong		13869 May 01 08:01	20°  301'54	0°59'15
min. Earth dist.	13866 Dec 10 21:22	2°  354'04	0.28667 AU			13869 May 09 08:20	0° 	
morning rise	13866 Dec 14 08:20	0°  345'29				13869 Jun 02 09:38	0° 	
	13866 Dec 15 14:50	30°  R 		evening rise		13869 Jun 10 00:41	9°  331'48	
direct	13867 Jan 01 15:50	24°  331'02				13869 Jun 26 09:41	0° 	
greatest brilliancy	13867 Jan 11 13:41	26°  318'15	-4.8m			13869 Jul 20 10:16	0° 	
	13867 Jan 19 15:28	0° 		asc. node		13869 Jul 26 18:01	7°  3352'46	
asc. node	13867 Feb 09 06:50	15°  315'09				13869 Aug 13 13:24	0° 	
morning max el	13867 Feb 19 14:19	24°  348'57	45°43'20			13869 Sep 06 21:33	0° 	
	13867 Feb 24 20:17	0° 				13869 Oct 01 14:51	0° 	
	13867 Mar 24 20:35	0° 				13869 Oct 27 01:15	0° 	
	13867 Apr 19 21:50	0° 		desc. node		13869 Nov 15 13:45	22°  302'13	
	13867 May 15 01:32	0° 				13869 Nov 22 21:55	0° 	
desc. node	13867 Jun 01 05:56	20°  352'50		evening max el		13869 Dec 11 02:43	18°  336'49	46°00'46
	13867 Jun 08 16:36	0° 				13869 Dec 23 13:30	0° 	
	13867 Jul 02 23:26	0° 		greatest brilliancy		13870 Jan 19 07:42	17°  3310'30	-4.8m
	13867 Jul 27 01:17	0° 		retrograde		13870 Jan 29 05:25	18°  3358'01	
	13867 Aug 20 00:54	0° 		evening set		13870 Feb 14 02:37	14°  3305'54	
morning set	13867 Aug 22 02:59	2°  336'45		inferior conj		13870 Feb 19 13:53	10°  3347'05	-4°03'40
	13867 Sep 13 00:11	0° 		minimum elong		13870 Feb 19 22:10	10°  3334'07	4°00'57
asc. node	13867 Sep 21 20:59	11°  3305'29		min. Earth dist.		13870 Feb 19 23:56	10°  3331'21	0.28578 AU
				morning rise		13870 Feb 25 17:26	7°  3304'54	
superior conj	13867 Sep 30 12:13	21°  33052'55	0°20'53	asc. node		13870 Mar 08 15:59	2°  3355'55	
minimum elong	13867 Sep 30 07:13	21°  3337'18	0°20'55	direct		13870 Mar 12 20:51	2°  3334'28	
max. Earth dist.	13867 Oct 02 11:06	24°  3319'19	1.71884 AU	greatest brilliancy		13870 Mar 23 19:04	4°  3345'52	-4.8m
	13867 Oct 07 00:14	0° 				13870 Apr 27 09:43	0° 	
	13867 Oct 31 01:49	0° 		morning max el		13870 May 01 11:06	3°  3356'17	46°12'06
evening rise	13867 Nov 07 14:48	9°  3322'23				13870 May 26 03:41	0° 	
	13867 Nov 24 06:13	0° 				13870 Jun 21 07:55	0° 	
	13867 Dec 18 15:13	0° 		desc. node		13870 Jun 28 17:55	8°  3345'54	
desc. node	13868 Jan 11 11:33	29°  3302'30				13870 Jul 16 10:29	0° 	
	13868 Jan 12 06:33	0° 				13870 Aug 10 00:04	0° 	
	13868 Feb 06 05:31	0° 				13870 Sep 03 07:19	0° 	
	13868 Mar 02 13:46	0° 				13870 Sep 27 11:57	0° 	
	13868 Mar 28 12:31	0° 		asc. node		13870 Oct 19 11:21	27°  3317'21	
	13868 Apr 24 19:20	0° 				13870 Oct 21 15:44	0° 	
asc. node	13868 May 03 08:25	8°  3347'45		morning set		13870 Nov 02 15:42	14°  3354'11	
evening max el	13868 May 05 19:15	11°  3314'27	46°26'09			13870 Nov 14 19:22	0° 	
	13868 May 26 16:52	0° 				13870 Dec 08 23:34	0° 	
greatest brilliancy	13868 Jun 15 07:07	11°  33029'36	-4.9m					
retrograde	13868 Jun 24 16:57	13°  3309'52		superior conj		13870 Dec 10 06:14	1°  3335'04	1°25'44
evening set	13868 Jul 12 03:26	7°  33022'02		minimum elong		13870 Dec 10 04:02	1°  3328'15	1°26'46
inferior conj	13868 Jul 15 09:37	5°  33023'14	8°14'40	max. Earth dist.		13870 Dec 12 06:42	4°  3305'16	1.72793 AU
minimum elong	13868 Jul 15 18:40	5°  3309'18	8°12'27			13871 Jan 02 05:24	0° 	
min. Earth dist.	13868 Jul 16 00:03	5°  3301'00	0.27242 AU	evening rise		13871 Jan 16 09:54	17°  33029'51	
morning rise	13868 Jul 19 09:45	2°  33057'29				13871 Jan 26 13:53	0° 	
	13868 Jul 25 01:57	30°  R 		desc. node		13871 Feb 08 01:15	15°  3318'22	
direct	13868 Aug 05 04:00	27°  33030'05				13871 Feb 20 01:18	0° 	
greatest brilliancy	13868 Aug 15 08:33	29°  33026'32	-4.9m			13871 Mar 16 15:12	0° 	
	13868 Aug 16 19:10	0° 				13871 Apr 10 07:30	0° 	
desc. node	13868 Aug 23 11:49	3°  33020'24				13871 May 05 04:01	0° 	
morning max el	13868 Sep 24 11:41	29°  33056'40	46°46'33			13871 May 30 10:05	0° 	
	13868 Sep 24 13:01	0° 		asc. node		13871 May 31 18:49	1°  33035'49	
	13868 Oct 22 17:12	0° 				13871 Jun 25 14:02	0° 	
	13868 Nov 17 23:23	0° 		evening max el		13871 Jul 18 21:22	24°  33048'49	46°45'18
	13868 Dec 13 09:57	0°				13871 Jul 24 04:03	0°	
asc. node	13868 Dec 14 11:47	1°  33016'58		greatest brilliancy		13871 Aug 27 10:56	25°  33011'01	-4.9m
	13869 Jan 07 09:16	0°		retrograde		13871 Sep 07 05:02	27°  33020'14	
	13869 Feb 01 01:29	0°		desc. node		13871 Sep 20 20:42	23°  33037'24	
	13869 Feb 25 13:17	0°		evening set		13871 Sep 21 17:15	23°  33010'27	

min. Earth dist.	13871 Sep 27 12:49	19° $\Omega$ 46'58	0.27202 AU	evening rise	13874 Mar 27 08:43	25° $\Upsilon$ 33'37	
inferior conj	13871 Sep 28 01:05	19° $\Omega$ 28'16	-1°50'58		13874 Mar 30 23:02	0° $\mathcal{B}$	
minimum elong	13871 Sep 27 20:50	19° $\Omega$ 34'45	1°49'21		13874 Apr 24 05:45	0° $\Pi$	
morning rise	13871 Oct 04 01:03	15° $\Omega$ 58'12			13874 May 18 11:53	0° $\mathcal{E}$	
direct	13871 Oct 18 20:52	11° $\Omega$ 42'44			13874 Jun 11 19:09	0° $\Omega$	
greatest brilliancy	13871 Oct 28 12:01	13° $\Omega$ 25'34	-4.8m	asc. node	13874 Jun 28 06:44	20° $\Omega$ 14'13	
	13871 Nov 23 14:19	0° $\mathcal{M}$			13874 Jul 06 06:33	0° $\mathcal{M}$	
morning max el	13871 Dec 07 04:45	12° $\mathcal{M}$ 24'13	46°03'12		13874 Jul 31 02:48	0° $\Omega$	
	13871 Dec 24 11:51	0° $\mathcal{A}$			13874 Aug 25 16:44	0° $\mathcal{M}$	
asc. node	13872 Jan 11 22:59	20° $\mathcal{A}$ 09'44			13874 Sep 21 23:31	0° $\mathcal{A}$	
	13872 Jan 20 15:56	0° $\mathcal{Z}$		evening max el	13874 Sep 28 14:44	6° $\mathcal{A}$ 45'13	46°28'52
	13872 Feb 15 11:20	0° $\approx$		desc. node	13874 Oct 18 05:55	24° $\mathcal{A}$ 32'46	
	13872 Mar 11 14:08	0° $\mathcal{H}$			13874 Oct 25 16:09	0° $\mathcal{Z}$	
	13872 Apr 05 07:17	0° $\Upsilon$		greatest brilliancy	13874 Nov 06 22:58	6° $\mathcal{Z}$ 33'05	-4.8m
	13872 Apr 29 17:56	0° $\mathcal{B}$		retrograde	13874 Nov 17 13:32	8° $\mathcal{Z}$ 37'02	
desc. node	13872 May 02 18:32	3° $\mathcal{B}$ 43'56		evening set	13874 Dec 05 19:27	2° $\mathcal{Z}$ 22'29	
	13872 May 23 23:24	0° $\Pi$		min. Earth dist.	13874 Dec 08 12:14	0° $\mathcal{Z}$ 42'22	0.28631 AU
morning set	13872 Jun 04 21:41	14° $\Pi$ 51'19		inferior conj	13874 Dec 09 00:06	0° $\mathcal{Z}$ 23'47	-8°48'51
	13872 Jun 17 00:43	0° $\mathcal{E}$		minimum elong	13874 Dec 08 21:35	0° $\mathcal{Z}$ 27'44	8°47'42
	13872 Jul 10 23:24	0° $\Omega$			13874 Dec 09 15:19	30° $\mathcal{R}$ $\mathcal{A}$	
max. Earth dist.	13872 Jul 13 22:46	3° $\Omega$ 43'48	1.71472 AU	morning rise	13874 Dec 11 23:50	28° $\mathcal{A}$ 32'49	
				direct	13874 Dec 30 06:26	22° $\mathcal{A}$ 18'55	
superior conj	13872 Jul 14 20:02	4° $\Omega$ 50'30	-1°18'09	greatest brilliancy	13875 Jan 09 04:21	24° $\mathcal{A}$ 05'42	-4.8m
minimum elong	13872 Jul 15 05:38	5° $\Omega$ 20'37	1°18'51		13875 Jan 20 23:18	0° $\mathcal{Z}$	
	13872 Aug 03 21:14	0° $\mathcal{M}$		asc. node	13875 Feb 08 08:48	14° $\mathcal{Z}$ 19'32	
asc. node	13872 Aug 23 08:10	24° $\mathcal{M}$ 22'52		morning max el	13875 Feb 17 04:21	22° $\mathcal{Z}$ 32'59	45°43'07
evening rise	13872 Aug 24 01:23	25° $\mathcal{M}$ 16'46			13875 Feb 24 16:12	0° $\approx$	
	13872 Aug 27 19:55	0° $\Omega$			13875 Mar 24 11:29	0° $\mathcal{H}$	
	13872 Sep 20 20:44	0° $\mathcal{M}$			13875 Apr 19 10:50	0° $\Upsilon$	
	13872 Oct 15 01:20	0° $\mathcal{A}$			13875 May 14 13:37	0° $\mathcal{B}$	
	13872 Nov 08 12:19	0° $\mathcal{Z}$		desc. node	13875 May 31 07:55	20° $\mathcal{B}$ 23'11	
	13872 Dec 03 09:45	0° $\approx$			13875 Jun 08 04:10	0° $\Pi$	
desc. node	13872 Dec 13 00:55	11° $\approx$ 24'43			13875 Jul 02 10:42	0° $\mathcal{E}$	
	13872 Dec 28 23:22	0° $\mathcal{H}$			13875 Jul 26 12:22	0° $\Omega$	
	13873 Jan 24 15:35	0° $\Upsilon$			13875 Aug 19 11:52	0° $\mathcal{M}$	
evening max el	13873 Feb 20 06:57	27° $\Upsilon$ 37'48	45°59'01	morning set	13875 Aug 19 15:28	0° $\mathcal{M}$ 11'16	
	13873 Feb 22 18:14	0° $\mathcal{B}$			13875 Sep 12 11:05	0° $\Omega$	
greatest brilliancy	13873 Mar 31 11:57	26° $\mathcal{B}$ 27'03	-4.8m	asc. node	13875 Sep 20 22:42	10° $\Omega$ 36'49	
asc. node	13873 Apr 05 00:59	27° $\mathcal{B}$ 43'01					
retrograde	13873 Apr 10 11:06	28° $\mathcal{B}$ 16'37		superior conj	13875 Sep 28 01:47	19° $\Omega$ 31'28	0°17'17
evening set	13873 Apr 25 22:50	23° $\mathcal{B}$ 35'40		minimum elong	13875 Sep 27 21:35	19° $\Omega$ 18'21	0°17'19
inferior conj	13873 May 01 10:25	20° $\mathcal{B}$ 16'39	6°05'19	max. Earth dist.	13875 Sep 29 20:11	21° $\Omega$ 43'54	1.71855 AU
minimum elong	13873 Apr 30 23:45	20° $\mathcal{B}$ 33'21	6°02'04		13875 Oct 06 11:05	0° $\mathcal{M}$	
min. Earth dist.	13873 May 01 09:37	20° $\mathcal{B}$ 17'54	0.27924 AU		13875 Oct 30 12:39	0° $\mathcal{A}$	
morning rise	13873 May 06 00:29	17° $\mathcal{B}$ 28'08		evening rise	13875 Nov 05 06:19	7° $\mathcal{A}$ 07'50	
direct	13873 May 22 12:17	12° $\mathcal{B}$ 11'32			13875 Nov 23 17:06	0° $\mathcal{Z}$	
greatest brilliancy	13873 Jun 01 14:21	14° $\mathcal{B}$ 05'55	-4.8m		13875 Dec 18 02:16	0° $\approx$	
	13873 Jun 26 02:53	0° $\Pi$		desc. node	13876 Jan 10 13:30	28° $\approx$ 33'54	
morning max el	13873 Jul 11 19:54	14° $\Pi$ 43'27	46°52'02		13876 Jan 11 17:58	0° $\mathcal{H}$	
desc. node	13873 Jul 26 04:26	29° $\Pi$ 44'16			13876 Feb 05 17:31	0° $\Upsilon$	
	13873 Jul 26 10:15	0° $\mathcal{E}$			13876 Mar 02 02:49	0° $\mathcal{B}$	
	13873 Aug 22 00:10	0° $\Omega$			13876 Mar 28 03:34	0° $\Pi$	
	13873 Sep 16 09:03	0° $\mathcal{M}$			13876 Apr 24 15:00	0° $\mathcal{E}$	
	13873 Oct 11 05:45	0° $\Omega$		asc. node	13876 May 02 10:25	7° $\mathcal{E}$ 57'05	
	13873 Nov 04 20:37	0° $\mathcal{M}$		evening max el	13876 May 03 08:16	8° $\mathcal{E}$ 51'16	46°25'05
asc. node	13873 Nov 16 01:09	13° $\mathcal{M}$ 42'01			13876 May 27 10:22	0° $\Omega$	
	13873 Nov 29 07:53	0° $\mathcal{A}$		greatest brilliancy	13876 Jun 12 19:59	9° $\Omega$ 05'02	-4.9m
	13873 Dec 23 16:43	0° $\mathcal{Z}$		retrograde	13876 Jun 22 06:07	10° $\Omega$ 45'43	
morning set	13874 Jan 11 09:36	23° $\mathcal{Z}$ 04'29		evening set	13876 Jul 09 19:35	4° $\Omega$ 52'27	
	13874 Jan 17 00:17	0° $\approx$		inferior conj	13876 Jul 12 22:38	2° $\Omega$ 58'25	8°24'44
	13874 Feb 10 07:44	0° $\mathcal{H}$		minimum elong	13876 Jul 13 07:04	2° $\Omega$ 45'26	8°22'41
				min. Earth dist.	13876 Jul 13 12:54	2° $\Omega$ 36'28	0.27274 AU
superior conj	13874 Feb 17 07:51	8° $\mathcal{H}$ 38'27	0°42'27	morning rise	13876 Jul 16 18:26	0° $\Omega$ 39'10	
minimum elong	13874 Feb 17 16:21	9° $\mathcal{H}$ 04'37	0°42'34		13876 Jul 17 21:31	30° $\mathcal{R}$ $\mathcal{E}$	
max. Earth dist.	13874 Feb 17 09:07	8° $\mathcal{H}$ 42'21	1.73133 AU	direct	13876 Aug 02 17:11	25° $\mathcal{E}$ 04'26	
	13874 Mar 06 15:28	0° $\Upsilon$		greatest brilliancy	13876 Aug 12 21:43	27° $\mathcal{E}$ 01'18	-4.9m
desc. node	13874 Mar 07 15:38	1° $\Upsilon$ 14'31			13876 Aug 19 09:45	0° $\Omega$	

desc. node	13876 Aug 22 13:42	1°Ω50'16			13879 May 04 16:44	0°☿	
morning max el	13876 Sep 22 02:19	27°Ω36'02	46°47'43		13879 May 30 00:14	0°Ω	
	13876 Sep 24 11:39	0°♊		asc. node	13879 May 30 20:49	1°Ω00'05	
	13876 Oct 22 09:28	0°♈			13879 Jun 25 07:07	0°♊	
	13876 Nov 17 13:09	0°♌		evening max el	13879 Jul 16 12:12	22°♊28'36	46°45'00
	13876 Dec 12 22:25	0°♊			13879 Jul 24 05:55	0°♈	
asc. node	13876 Dec 13 13:42	0°♊45'38		greatest brilliancy	13879 Aug 25 01:39	22°♈48'26	-4.9m
	13877 Jan 06 20:58	0°♊		retrograde	13879 Sep 04 18:41	24°♈56'09	
	13877 Jan 31 12:42	0°♋		evening set	13879 Sep 19 06:24	20°♈47'25	
	13877 Feb 25 00:15	0°♋		desc. node	13879 Sep 19 22:41	20°♈25'20	
	13877 Mar 21 09:03	0°♌		min. Earth dist.	13879 Sep 25 03:01	17°♈22'07	0.27163 AU
morning set	13877 Mar 21 12:28	0°♌10'31		inferior conj	13879 Sep 25 14:09	17°♈05'08	-1°27'29
desc. node	13877 Apr 04 06:13	17°♌08'50		minimum elong	13879 Sep 25 10:46	17°♈10'18	1°26'12
	13877 Apr 14 15:26	0°♌		morning rise	13879 Oct 01 15:46	13°♈32'44	
max. Earth dist.	13877 Apr 26 10:13	14°♌36'49	1.72401 AU	direct	13879 Oct 16 10:03	9°♈20'14	
				greatest brilliancy	13879 Oct 26 01:03	11°♈02'56	-4.8m
superior conj	13877 Apr 29 08:51	18°♌16'11	-0°56'10		13879 Nov 23 20:56	0°♌	
minimum elong	13877 Apr 28 21:57	17°♌42'20	0°56'27	morning max el	13879 Dec 04 18:05	10°♌04'11	46°04'33
	13877 May 08 19:12	0°♌			13879 Dec 24 05:42	0°♊	
	13877 Jun 01 20:37	0°☿		asc. node	13880 Jan 11 00:54	19°♊32'48	
evening rise	13877 Jun 07 13:10	7°☿06'27			13880 Jan 20 06:10	0°♊	
	13877 Jun 25 20:49	0°Ω			13880 Feb 14 23:57	0°♋	
	13877 Jul 19 21:35	0°♊			13880 Mar 11 01:54	0°♋	
asc. node	13877 Jul 25 19:48	7°♊22'52			13880 Apr 04 18:36	0°♌	
	13877 Aug 13 00:58	0°♈			13880 Apr 29 04:59	0°♌	
	13877 Sep 06 09:33	0°♌		desc. node	13880 May 01 20:31	3°♌16'04	
	13877 Oct 01 03:37	0°♊			13880 May 23 10:18	0°♌	
	13877 Oct 26 15:28	0°♊		morning set	13880 Jun 02 09:56	12°♌26'01	
desc. node	13877 Nov 14 15:46	21°♊23'11			13880 Jun 16 11:33	0°☿	
	13877 Nov 22 15:30	0°♋			13880 Jul 10 10:13	0°Ω	
evening max el	13877 Dec 08 18:49	16°♋25'47	46°01'34	max. Earth dist.	13880 Jul 11 05:46	1°Ω01'18	1.71485 AU
	13877 Dec 23 19:59	0°♋					
greatest brilliancy	13878 Jan 16 22:35	14°♋58'05	-4.8m	superior conj	13880 Jul 12 08:12	2°Ω24'12	-1°19'48
retrograde	13878 Jan 26 21:29	16°♋46'13		minimum elong	13880 Jul 12 17:08	2°Ω52'12	1°20'33
evening set	13878 Feb 11 20:51	11°♋50'23			13880 Aug 03 08:07	0°♊	
inferior conj	13878 Feb 17 05:39	8°♋34'51	-4°22'06	evening rise	13880 Aug 21 13:42	22°♊50'48	
minimum elong	13878 Feb 17 14:24	8°♋21'10	4°19'16	asc. node	13880 Aug 22 09:57	23°♊54'12	
min. Earth dist.	13878 Feb 17 15:21	8°♋19'40	0.28601 AU		13880 Aug 27 06:52	0°♈	
morning rise	13878 Feb 23 07:45	4°♋54'55			13880 Sep 20 07:49	0°♌	
asc. node	13878 Mar 07 17:51	0°♋31'51			13880 Oct 14 12:36	0°♊	
direct	13878 Mar 10 13:18	0°♋22'17			13880 Nov 07 23:56	0°♊	
greatest brilliancy	13878 Mar 21 10:22	2°♋33'01	-4.8m		13880 Dec 02 22:02	0°♋	
	13878 Apr 27 08:47	0°♌		desc. node	13880 Dec 12 02:52	10°♋53'09	
morning max el	13878 Apr 29 03:21	1°♌44'13	46°10'31		13880 Dec 28 12:57	0°♋	
	13878 May 25 19:41	0°♌			13881 Jan 24 07:53	0°♌	
	13878 Jun 20 21:35	0°♌		evening max el	13881 Feb 17 21:05	25°♌20'59	45°58'31
desc. node	13878 Jun 27 19:50	8°♌12'13			13881 Feb 22 18:35	0°♌	
	13878 Jul 15 23:03	0°☿		greatest brilliancy	13881 Mar 29 02:49	24°♌10'28	-4.8m
	13878 Aug 09 12:02	0°Ω		asc. node	13881 Apr 04 03:05	25°♌41'44	
	13878 Sep 02 18:52	0°♊		retrograde	13881 Apr 08 00:56	25°♌59'26	
	13878 Sep 26 23:12	0°♈		evening set	13881 Apr 23 10:37	21°♌22'18	
asc. node	13878 Oct 18 13:16	26°♈48'59		inferior conj	13881 Apr 29 01:07	17°♌59'22	5°48'15
	13878 Oct 21 02:45	0°♌		minimum elong	13881 Apr 28 14:38	18°♌15'49	5°44'59
morning set	13878 Oct 31 06:27	12°♌36'56		min. Earth dist.	13881 Apr 29 00:49	17°♌59'51	0.27937 AU
	13878 Nov 14 06:15	0°♊		morning rise	13881 May 03 18:22	15°♌06'00	
				direct	13881 May 20 02:32	9°♌53'55	
superior conj	13878 Dec 07 22:31	29°♊23'15	1°25'18	greatest brilliancy	13881 May 30 06:26	11°♌49'27	-4.8m
minimum elong	13878 Dec 07 19:32	29°♊14'00	1°26'20		13881 Jun 26 08:58	0°♌	
	13878 Dec 08 10:23	0°♊		morning max el	13881 Jul 09 09:08	12°♌21'00	46°51'14
max. Earth dist.	13878 Dec 10 01:42	2°♊01'54	1.72766 AU	desc. node	13881 Jul 25 06:19	29°♌00'55	
	13879 Jan 01 16:13	0°♋			13881 Jul 26 03:59	0°☿	
evening rise	13879 Jan 14 02:02	15°♋18'17			13881 Aug 21 14:33	0°Ω	
	13879 Jan 26 00:47	0°♋			13881 Sep 15 21:56	0°♊	
desc. node	13879 Feb 07 03:01	14°♋50'05			13881 Oct 10 17:48	0°♈	
	13879 Feb 19 12:23	0°♌			13881 Nov 04 08:06	0°♌	
	13879 Mar 16 02:37	0°♌		asc. node	13881 Nov 15 03:04	13°♌13'17	
	13879 Apr 09 19:25	0°♌			13881 Nov 28 18:59	0°♊	



	13881 Dec 23 03:32	0°☾			13884 May 28 09:29	0°♈	
morning set	13882 Jan 09 02:17	20°☾54'49		greatest brilliancy	13884 Jun 10 08:19	6°♈41'03	-4.9m
	13882 Jan 16 10:57	0°♊		retrograde	13884 Jun 19 19:35	8°♈22'32	
	13882 Feb 09 18:21	0°♋		evening set	13884 Jul 07 11:37	2°♈24'09	
				inferior conj	13884 Jul 10 11:39	0°♈34'35	8°33'53
superior conj	13882 Feb 14 23:56	6°♋27'18	0°45'23	minimum elong	13884 Jul 10 19:26	0°♈22'36	8°32'00
minimum elong	13882 Feb 15 08:47	6°♋54'37	0°45'31	min. Earth dist.	13884 Jul 11 01:23	0°♈13'27	0.27303 AU
max. Earth dist.	13882 Feb 15 02:21	6°♋34'47	1.73139 AU		13884 Jul 11 10:08	30°♋☾	
	13882 Mar 06 02:08	0°♌		morning rise	13884 Jul 14 03:08	28°☾21'47	
desc. node	13882 Mar 06 17:26	0°♌47'12		direct	13884 Jul 31 06:53	22°☾40'03	
evening rise	13882 Mar 25 00:02	23°♌19'40		greatest brilliancy	13884 Aug 10 10:17	24°☾36'32	-4.9m
	13882 Mar 30 09:48	0°♍			13884 Aug 21 00:22	0°♈	
	13882 Apr 23 16:42	0°♎		desc. node	13884 Aug 21 15:40	0°♈24'34	
	13882 May 17 23:05	0°☾		morning max el	13884 Sep 19 17:25	25°♈17'53	46°48'56
	13882 Jun 11 06:43	0°♈			13884 Sep 24 08:53	0°♎	
asc. node	13882 Jun 27 08:33	19°♈43'19			13884 Oct 22 00:56	0°♎	
	13882 Jul 05 18:42	0°♎			13884 Nov 17 02:19	0°♎	
	13882 Jul 30 15:56	0°♎			13884 Dec 12 10:22	0°♏	
	13882 Aug 25 07:47	0°♎		asc. node	13884 Dec 12 15:33	0°♏15'30	
	13882 Sep 21 19:29	0°♏			13885 Jan 06 08:14	0°☾	
evening max el	13882 Sep 26 04:31	4°♏25'35	46°29'44		13885 Jan 30 23:35	0°♊	
desc. node	13882 Oct 17 07:57	23°♏25'53			13885 Feb 24 10:54	0°♋	
	13882 Oct 26 20:16	0°☾		morning set	13885 Mar 19 03:55	27°♋57'41	
greatest brilliancy	13882 Nov 04 13:42	4°☾18'09	-4.8m		13885 Mar 20 19:35	0°♌	
retrograde	13882 Nov 15 04:47	6°☾23'11		desc. node	13885 Apr 03 08:08	16°♌42'15	
evening set	13882 Dec 03 08:31	0°☾11'58			13885 Apr 14 01:56	0°♍	
	13882 Dec 03 16:25	30°♌♏		max. Earth dist.	13885 Apr 24 02:12	12°♌24'50	1.72437 AU
min. Earth dist.	13882 Dec 06 02:44	28°♏29'56	0.28600 AU				
inferior conj	13882 Dec 06 15:20	28°♏10'16	-8°46'05	superior conj	13885 Apr 26 22:23	15°♌56'31	-0°53'18
minimum elong	13882 Dec 06 11:59	28°♏15'30	8°44'53	minimum elong	13885 Apr 26 11:45	15°♌23'28	0°53'33
morning rise	13882 Dec 09 15:34	26°♏18'41			13885 May 08 05:44	0°♎	
direct	13882 Dec 27 20:43	20°♏05'47			13885 Jun 01 07:15	0°☾	
greatest brilliancy	13883 Jan 06 18:58	21°♏52'37	-4.8m	evening rise	13885 Jun 05 01:34	4°☾42'03	
	13883 Jan 21 22:15	0°☾			13885 Jun 25 07:35	0°♈	
asc. node	13883 Feb 07 10:43	13°☾24'49			13885 Jul 19 08:31	0°♎	
morning max el	13883 Feb 14 19:04	20°☾18'39	45°43'04	asc. node	13885 Jul 24 21:37	6°♎54'17	
	13883 Feb 24 11:30	0°♊			13885 Aug 12 12:10	0°♎	
	13883 Mar 24 02:05	0°♋			13885 Sep 05 21:10	0°♎	
	13883 Apr 18 23:36	0°♌			13885 Sep 30 15:59	0°♏	
	13883 May 14 01:28	0°♍			13885 Oct 26 05:18	0°☾	
desc. node	13883 May 30 09:43	19°♍53'36		desc. node	13885 Nov 13 17:42	20°☾45'06	
	13883 Jun 07 15:30	0°♎			13885 Nov 22 08:53	0°♊	
	13883 Jul 01 21:43	0°☾		evening max el	13885 Dec 06 11:01	14°♊16'24	46°02'10
	13883 Jul 25 23:13	0°♈			13885 Dec 24 04:15	0°♋	
morning set	13883 Aug 17 04:20	27°♈47'47		greatest brilliancy	13886 Jan 14 13:40	12°♋47'07	-4.8m
	13883 Aug 18 22:34	0°♎		retrograde	13886 Jan 24 13:04	14°♋35'16	
	13883 Sep 11 21:40	0°♎		evening set	13886 Feb 09 15:08	9°♋35'47	
asc. node	13883 Sep 20 00:37	10°♎09'44		inferior conj	13886 Feb 14 21:21	6°♋23'33	-4°40'07
				minimum elong	13886 Feb 15 06:30	6°♋09'13	4°37'12
superior conj	13883 Sep 25 15:35	17°♎11'41	0°13'41	min. Earth dist.	13886 Feb 15 06:46	6°♋08'47	0.28627 AU
minimum elong	13883 Sep 25 12:13	17°♎01'10	0°13'44	morning rise	13886 Feb 20 21:44	2°♋45'54	
behind sun begin	13883 Sep 24 23:04	16°♎20'04			13886 Feb 26 17:57	30°♋♊	
behind sun end	13883 Sep 26 01:22	17°♎42'16		asc. node	13886 Mar 06 19:59	28°♊13'27	
max. Earth dist.	13883 Sep 27 08:01	19°♎18'03	1.71829 AU	direct	13886 Mar 08 05:47	28°♊11'04	
	13883 Oct 05 21:36	0°♎			13886 Mar 18 02:56	0°♋	
	13883 Oct 29 23:11	0°♏		greatest brilliancy	13886 Mar 19 01:34	0°♋20'43	-4.8m
evening rise	13883 Nov 02 22:01	4°♏54'44		morning max el	13886 Apr 26 18:53	29°♋31'08	46°08'56
	13883 Nov 23 03:45	0°☾			13886 Apr 27 06:35	0°♌	
	13883 Dec 17 13:09	0°♊			13886 May 25 11:07	0°♍	
desc. node	13884 Jan 09 15:13	28°♊05'10			13886 Jun 20 10:46	0°♎	
	13884 Jan 11 05:13	0°♋		desc. node	13886 Jun 26 21:44	7°♎39'42	
	13884 Feb 05 05:24	0°♌			13886 Jul 15 11:10	0°☾	
	13884 Mar 01 15:46	0°♍			13886 Aug 08 23:32	0°♈	
	13884 Mar 27 18:35	0°♎			13886 Sep 02 05:58	0°♎	
	13884 Apr 24 10:59	0°☾			13886 Sep 26 10:00	0°♎	
evening max el	13884 Apr 30 22:08	6°☾31'10	46°24'07	asc. node	13886 Oct 17 15:08	26°♎21'46	
asc. node	13884 May 01 12:26	7°☾06'24			13886 Oct 20 13:21	0°♎	

morning set	13886 Oct 28 21:24	10° $\mathbb{M}$ 21'37		min. Earth dist.	13889 Apr 26 15:53	15° $\mathcal{B}$ 42'44	0.27959 AU
	13886 Nov 13 16:41	0° $\mathcal{X}$		morning rise	13889 May 01 12:12	12° $\mathcal{B}$ 44'54	
				direct	13889 May 17 16:57	7° $\mathcal{B}$ 36'44	
superior conj	13886 Dec 05 15:04	27° $\mathcal{X}$ 13'42	1°24'44	greatest brilliancy	13889 May 27 22:48	9° $\mathcal{B}$ 33'54	-4.8m
minimum elong	13886 Dec 05 11:21	27° $\mathcal{X}$ 02'09	1°25'45		13889 Jun 26 12:58	0° $\mathbb{I}$	
	13886 Dec 07 20:43	0° $\mathcal{Z}$		morning max el	13889 Jul 06 23:06	10° $\mathbb{I}$ 00'36	46°50'21
max. Earth dist.	13886 Dec 07 20:52	0° $\mathcal{Z}$ 00'28	1.72735 AU	desc. node	13889 Jul 24 08:19	28° $\mathbb{I}$ 18'35	
	13887 Jan 01 02:33	0° $\approx$			13889 Jul 25 21:17	0° $\mathcal{G}$	
evening rise	13887 Jan 11 18:22	13° $\approx$ 08'45			13889 Aug 21 04:43	0° $\mathcal{Q}$	
	13887 Jan 25 11:15	0° $\mathcal{H}$			13889 Sep 15 10:38	0° $\mathbb{M}$	
desc. node	13887 Feb 06 04:54	14° $\mathcal{H}$ 23'28			13889 Oct 10 05:39	0° $\mathcal{L}$	
	13887 Feb 18 23:06	0° $\mathcal{Y}$			13889 Nov 03 19:23	0° $\mathbb{M}$	
	13887 Mar 15 13:43	0° $\mathcal{B}$		asc. node	13889 Nov 14 04:48	12° $\mathbb{M}$ 44'37	
	13887 Apr 09 07:05	0° $\mathbb{I}$			13889 Nov 28 05:52	0° $\mathcal{X}$	
	13887 May 04 05:15	0° $\mathcal{G}$			13889 Dec 22 14:10	0° $\mathcal{Z}$	
asc. node	13887 May 29 22:40	0° $\mathcal{Q}$ 24'37		morning set	13890 Jan 06 19:12	18° $\mathcal{Z}$ 46'19	
	13887 May 29 14:12	0° $\mathcal{Q}$			13890 Jan 15 21:26	0° $\approx$	
	13887 Jun 25 00:11	0° $\mathbb{M}$			13890 Feb 09 04:48	0° $\mathcal{H}$	
evening max el	13887 Jul 14 02:09	20° $\mathbb{M}$ 07'14	46°44'48				
	13887 Jul 24 08:46	0° $\mathcal{L}$		superior conj	13890 Feb 12 16:24	4° $\mathcal{H}$ 17'54	0°48'12
greatest brilliancy	13887 Aug 22 16:51	20° $\mathcal{L}$ 27'38	-4.9m	minimum elong	13890 Feb 13 01:35	4° $\mathcal{H}$ 46'12	0°48'22
retrograde	13887 Sep 02 07:48	22° $\mathcal{L}$ 33'20		max. Earth dist.	13890 Feb 12 21:12	4° $\mathcal{H}$ 32'41	1.73144 AU
evening set	13887 Sep 16 19:49	18° $\mathcal{L}$ 25'18		desc. node	13890 Mar 05 19:21	0° $\mathcal{Y}$ 20'46	
desc. node	13887 Sep 19 00:48	17° $\mathcal{L}$ 11'20			13890 Mar 05 12:37	0° $\mathcal{Y}$	
min. Earth dist.	13887 Sep 22 17:37	14° $\mathcal{L}$ 58'07	0.27126 AU	evening rise	13890 Mar 22 15:50	21° $\mathcal{Y}$ 07'48	
inferior conj	13887 Sep 23 03:15	14° $\mathcal{L}$ 43'22	-1°03'50		13890 Mar 29 20:24	0° $\mathcal{B}$	
minimum elong	13887 Sep 23 00:47	14° $\mathcal{L}$ 47'10	1°02'52		13890 Apr 23 03:30	0° $\mathbb{I}$	
morning rise	13887 Sep 29 06:18	11° $\mathcal{L}$ 08'43			13890 May 17 10:13	0° $\mathcal{G}$	
direct	13887 Oct 13 22:48	6° $\mathcal{L}$ 58'53			13890 Jun 10 18:18	0° $\mathcal{Q}$	
greatest brilliancy	13887 Oct 23 14:45	8° $\mathcal{L}$ 42'05	-4.8m	asc. node	13890 Jun 26 10:25	19° $\mathcal{Q}$ 12'30	
	13887 Nov 24 00:55	0° $\mathbb{M}$			13890 Jul 05 06:56	0° $\mathbb{M}$	
morning max el	13887 Dec 02 06:47	7° $\mathbb{M}$ 43'41	46°06'03		13890 Jul 30 05:13	0° $\mathcal{L}$	
	13887 Dec 23 22:38	0° $\mathcal{X}$			13890 Aug 24 23:07	0° $\mathbb{M}$	
asc. node	13888 Jan 10 02:49	18° $\mathcal{X}$ 57'28			13890 Sep 21 16:10	0° $\mathcal{X}$	
	13888 Jan 19 19:47	0° $\mathcal{Z}$		evening max el	13890 Sep 23 18:56	2° $\mathcal{X}$ 07'29	46°30'53
	13888 Feb 14 12:03	0° $\approx$		desc. node	13890 Oct 16 09:53	22° $\mathcal{X}$ 16'57	
	13888 Mar 10 13:14	0° $\mathcal{H}$			13890 Oct 28 12:58	0° $\mathcal{Z}$	
	13888 Apr 04 05:33	0° $\mathcal{Y}$		greatest brilliancy	13890 Nov 02 03:53	2° $\mathcal{Z}$ 02'41	-4.8m
	13888 Apr 28 15:44	0° $\mathcal{B}$		retrograde	13890 Nov 12 20:33	4° $\mathcal{Z}$ 09'31	
desc. node	13888 Apr 30 22:19	2° $\mathcal{B}$ 48'26			13890 Nov 27 10:36	30° $\mathcal{R}$ $\mathcal{X}$	
	13888 May 22 20:58	0° $\mathbb{I}$		evening set	13890 Nov 30 21:18	28° $\mathcal{X}$ 01'53	
morning set	13888 May 30 21:44	10° $\mathbb{I}$ 00'05		min. Earth dist.	13890 Dec 03 16:55	26° $\mathcal{X}$ 18'05	0.28564 AU
	13888 Jun 15 22:10	0° $\mathcal{G}$		inferior conj	13890 Dec 04 06:35	25° $\mathcal{X}$ 56'48	-8°42'35
max. Earth dist.	13888 Jul 08 10:33	28° $\mathcal{G}$ 12'37	1.71496 AU	minimum elong	13890 Dec 04 02:25	26° $\mathcal{X}$ 03'18	8°41'18
				morning rise	13890 Dec 07 07:39	24° $\mathcal{X}$ 04'14	
superior conj	13888 Jul 09 20:01	29° $\mathcal{G}$ 57'32	-1°21'17	direct	13890 Dec 25 11:29	17° $\mathcal{X}$ 52'44	
minimum elong	13888 Jul 10 04:13	0° $\mathcal{Q}$ 23'14	1°22'07	greatest brilliancy	13891 Jan 04 09:13	19° $\mathcal{X}$ 39'23	-4.8m
	13888 Jul 09 20:48	0° $\mathcal{Q}$			13891 Jan 22 15:01	0° $\mathcal{Z}$	
	13888 Aug 02 18:43	0° $\mathbb{M}$		asc. node	13891 Feb 06 12:48	12° $\mathcal{Z}$ 31'54	
evening rise	13888 Aug 19 01:40	20° $\mathbb{M}$ 24'41		morning max el	13891 Feb 12 10:39	18° $\mathcal{Z}$ 06'47	45°43'06
asc. node	13888 Aug 21 11:50	23° $\mathbb{M}$ 26'44			13891 Feb 24 06:10	0° $\approx$	
	13888 Aug 26 17:32	0° $\mathcal{L}$			13891 Mar 23 16:27	0° $\mathcal{H}$	
	13888 Sep 19 18:36	0° $\mathbb{M}$			13891 Apr 18 12:13	0° $\mathcal{Y}$	
	13888 Oct 13 23:35	0° $\mathcal{X}$			13891 May 13 13:13	0° $\mathcal{B}$	
	13888 Nov 07 11:17	0° $\mathcal{Z}$		desc. node	13891 May 29 11:35	19° $\mathcal{B}$ 24'21	
	13888 Dec 02 10:04	0° $\approx$			13891 Jun 07 02:47	0° $\mathbb{I}$	
desc. node	13888 Dec 11 04:41	10° $\approx$ 22'05			13891 Jul 01 08:46	0° $\mathcal{G}$	
	13888 Dec 28 02:17	0° $\mathcal{H}$			13891 Jul 25 10:08	0° $\mathcal{Q}$	
	13889 Jan 24 00:05	0° $\mathcal{Y}$		morning set	13891 Aug 14 16:51	25° $\mathcal{Q}$ 22'43	
evening max el	13889 Feb 15 10:49	23° $\mathcal{Y}$ 04'22	45°58'02		13891 Aug 18 09:24	0° $\mathbb{M}$	
	13889 Feb 22 19:44	0° $\mathcal{B}$			13891 Sep 11 08:26	0° $\mathcal{L}$	
greatest brilliancy	13889 Mar 26 17:05	21° $\mathcal{B}$ 54'12	-4.8m	asc. node	13891 Sep 19 02:28	9° $\mathcal{L}$ 41'54	
asc. node	13889 Apr 03 05:02	23° $\mathcal{B}$ 36'32					
retrograde	13889 Apr 05 14:54	23° $\mathcal{B}$ 43'21		superior conj	13891 Sep 23 04:48	14° $\mathcal{L}$ 49'26	0°10'00
evening set	13889 Apr 20 22:32	19° $\mathcal{B}$ 09'17		minimum elong	13891 Sep 23 02:19	14° $\mathcal{L}$ 41'39	0°10'02
inferior conj	13889 Apr 26 15:49	15° $\mathcal{B}$ 42'50	5°30'31	behind sun begin	13891 Sep 22 06:44	13° $\mathcal{L}$ 40'24	
minimum elong	13889 Apr 26 05:32	15° $\mathcal{B}$ 58'54	5°27'16	behind sun end	13891 Sep 23 21:55	15° $\mathcal{L}$ 42'54	

max. Earth dist.	13891 Sep 24 20:42	16°♌54'09	1.71802 AU	asc. node	13894 Mar 05 21:56	25°♏59'10	
	13891 Oct 05 08:18	0°♍		greatest brilliancy	13894 Mar 16 17:00	28°♏07'52	-4.8m
	13891 Oct 29 09:53	0°♌			13894 Mar 20 23:05	0°♏	
evening rise	13891 Oct 31 13:19	2°♌39'51		morning max el	13894 Apr 24 09:33	27°♏15'02	46°07'25
	13891 Nov 22 14:33	0°♎			13894 Apr 27 03:55	0°♏	
	13891 Dec 17 00:09	0°♏			13894 May 25 02:37	0°♏	
desc. node	13892 Jan 08 17:11	27°♏36'48			13894 Jun 20 00:09	0°♏	
	13892 Jan 10 16:36	0°♏		desc. node	13894 Jun 25 23:42	7°♏06'41	
	13892 Feb 04 17:27	0°♏			13894 Jul 14 23:30	0°♏	
	13892 Mar 01 04:56	0°♏			13894 Aug 08 11:15	0°♏	
	13892 Mar 27 09:54	0°♏			13894 Sep 01 17:18	0°♏	
	13892 Apr 24 07:41	0°♏			13894 Sep 25 21:05	0°♏	
evening max el	13892 Apr 28 12:44	4°♏12'56	46°23'07	asc. node	13894 Oct 16 16:51	25°♏53'10	
asc. node	13892 Apr 30 14:21	6°♏14'29			13894 Oct 20 00:16	0°♏	
	13892 May 29 17:41	0°♏		morning set	13894 Oct 26 12:15	8°♏04'50	
greatest brilliancy	13892 Jun 07 20:41	4°♏17'33	-4.9m		13894 Nov 13 03:29	0°♌	
retrograde	13892 Jun 17 09:08	5°♏59'36					
evening set	13892 Jul 05 03:36	29°♏56'44		superior conj	13894 Dec 03 07:26	25°♌02'17	1°24'02
	13892 Jul 05 01:25	30°♏		minimum elong	13894 Dec 03 03:00	24°♌48'30	1°25'02
inferior conj	13892 Jul 08 00:53	28°♏11'03	8°41'54	max. Earth dist.	13894 Dec 05 13:30	27°♌49'56	1.72705 AU
minimum elong	13892 Jul 08 07:55	28°♏00'12	8°40'12		13894 Dec 07 07:28	0°♎	
min. Earth dist.	13892 Jul 08 13:50	27°♏51'06	0.27335 AU		13894 Dec 31 13:19	0°♏	
morning rise	13892 Jul 11 12:10	26°♏04'23		evening rise	13895 Jan 09 10:26	10°♏57'03	
direct	13892 Jul 28 21:05	20°♏16'10			13895 Jan 24 22:07	0°♏	
greatest brilliancy	13892 Aug 07 22:49	22°♏11'32	-4.9m	desc. node	13895 Feb 05 06:46	13°♏55'36	
desc. node	13892 Aug 20 17:47	29°♏01'41			13895 Feb 18 10:13	0°♏	
	13892 Aug 22 03:31	0°♏			13895 Mar 15 01:13	0°♏	
morning max el	13892 Sep 17 08:06	22°♏57'54	46°49'47		13895 Apr 08 19:08	0°♏	
	13892 Sep 24 05:40	0°♏			13895 May 03 18:11	0°♏	
	13892 Oct 21 16:32	0°♏		asc. node	13895 May 29 00:37	29°♏48'11	
	13892 Nov 16 15:43	0°♏			13895 May 29 04:41	0°♏	
asc. node	13892 Dec 11 17:30	29°♏44'50			13895 Jun 24 17:58	0°♏	
	13892 Dec 11 22:35	0°♌		evening max el	13895 Jul 11 15:19	17°♏43'04	46°44'38
	13893 Jan 05 19:44	0°♎			13895 Jul 24 13:43	0°♏	
	13893 Jan 30 10:40	0°♏		greatest brilliancy	13895 Aug 20 08:19	18°♏06'34	-4.9m
	13893 Feb 23 21:44	0°♏		retrograde	13895 Aug 30 20:52	20°♏10'26	
morning set	13893 Mar 16 19:37	25°♏45'02		evening set	13895 Sep 14 09:36	16°♏02'25	
	13893 Mar 20 06:19	0°♏		desc. node	13895 Sep 18 02:40	13°♏55'27	
desc. node	13893 Apr 02 09:54	16°♏14'32		inferior conj	13895 Sep 20 16:35	12°♏21'24	-0°40'15
	13893 Apr 13 12:39	0°♏		minimum elong	13895 Sep 20 15:01	12°♏23'48	0°39'37
max. Earth dist.	13893 Apr 21 16:22	10°♏06'35	1.72470 AU	min. Earth dist.	13895 Sep 20 08:33	12°♏33'41	0.27095 AU
				morning rise	13895 Sep 26 20:52	8°♏44'47	
superior conj	13893 Apr 24 12:23	13°♏37'37	-0°50'22	direct	13895 Oct 11 11:19	4°♏37'02	
minimum elong	13893 Apr 24 02:05	13°♏05'37	0°50'36	greatest brilliancy	13895 Oct 21 05:05	6°♏21'25	-4.8m
	13893 May 07 16:30	0°♏			13895 Nov 24 03:37	0°♏	
	13893 May 31 18:05	0°♏		morning max el	13895 Nov 29 19:37	5°♏22'21	46°07'27
evening rise	13893 Jun 02 14:26	2°♏18'26			13895 Dec 23 15:38	0°♌	
	13893 Jun 24 18:33	0°♏		asc. node	13896 Jan 09 04:50	18°♌21'30	
	13893 Jul 18 19:40	0°♏			13896 Jan 19 09:43	0°♎	
asc. node	13893 Jul 23 23:36	6°♏25'31			13896 Feb 14 00:33	0°♏	
	13893 Aug 11 23:38	0°♏			13896 Mar 10 00:58	0°♏	
	13893 Sep 05 09:09	0°♏			13896 Apr 03 16:52	0°♏	
	13893 Sep 30 04:48	0°♌			13896 Apr 28 02:50	0°♏	
	13893 Oct 25 19:43	0°♎		desc. node	13896 Apr 30 00:06	2°♏19'45	
desc. node	13893 Nov 12 19:37	20°♎05'14			13896 May 22 07:57	0°♏	
	13893 Nov 22 03:12	0°♏		morning set	13896 May 28 09:38	7°♏33'23	
evening max el	13893 Dec 04 02:36	12°♏04'06	46°02'51		13896 Jun 15 09:06	0°♏	
	13893 Dec 24 16:16	0°♏		max. Earth dist.	13896 Jul 05 16:35	25°♏26'44	1.71513 AU
greatest brilliancy	13894 Jan 12 05:25	10°♏35'51	-4.8m				
retrograde	13894 Jan 22 04:20	12°♏23'23		superior conj	13896 Jul 07 07:58	27°♏30'13	-1°22'38
evening set	13894 Feb 07 09:33	7°♏20'18		minimum elong	13896 Jul 07 15:24	27°♏53'30	1°23'30
inferior conj	13894 Feb 12 13:08	4°♏11'33	-4°57'35		13896 Jul 09 07:45	0°♏	
minimum elong	13894 Feb 12 22:37	3°♏56'39	4°54'37		13896 Aug 02 05:41	0°♏	
min. Earth dist.	13894 Feb 12 22:27	3°♏56'54	0.28648 AU	evening rise	13896 Aug 16 13:47	17°♏57'59	
morning rise	13894 Feb 18 11:34	0°♏36'17		asc. node	13896 Aug 20 13:39	22°♏58'02	
	13894 Feb 19 14:13	30°♏			13896 Aug 26 04:33	0°♏	
direct	13894 Mar 05 21:53	25°♏59'10			13896 Sep 19 05:42	0°♏	

	13896 Oct 13 10:53	0°♊			13899 May 13 01:10	0°♋		
	13896 Nov 06 22:59	0°♌		desc. node	13899 May 28 13:35	18°♋54'52		
	13896 Dec 01 22:31	0°♍			13899 Jun 06 14:16	0°♎		
desc. node	13896 Dec 10 06:40	9°♍50'17			13899 Jun 30 19:59	0°♏		
	13896 Dec 27 16:11	0°♐			13899 Jul 24 21:10	0°♑		
	13897 Jan 23 17:06	0°♒		morning set	13899 Aug 12 05:15	22°♑57'01		
evening max el	13897 Feb 13 01:03	20°♒47'50 45°57'39			13899 Aug 17 20:20	0°♓		
	13897 Feb 22 22:56	0°♋			13899 Sep 10 19:17	0°♐		
greatest brilliancy	13897 Mar 24 06:58	19°♋36'23 -4.8m		asc. node	13899 Sep 18 04:11	9°♐13'22		
asc. node	13897 Apr 02 06:57	21°♋25'20						
retrograde	13897 Apr 03 05:29	21°♋26'23		superior conj	13899 Sep 20 17:54	12°♐26'25 0°06'18		
evening set	13897 Apr 18 10:44	16°♋54'59		minimum elong	13899 Sep 20 16:19	12°♐21'28 0°06'20		
inferior conj	13897 Apr 24 06:31	13°♋25'15 5°12'22		behind sun begin	13899 Sep 19 17:20	11°♐09'33		
minimum elong	13897 Apr 23 20:32	13°♋40'51 5°09'08		behind sun end	13899 Sep 21 15:19	13°♐33'23		
min. Earth dist.	13897 Apr 24 06:39	13°♋25'03 0.27977 AU		max. Earth dist.	13899 Sep 22 11:04	14°♐35'06 1.71776 AU		
morning rise	13897 Apr 29 06:02	10°♋23'07			13899 Oct 04 19:06	0°♑		
direct	13897 May 15 07:43	5°♋18'43			13899 Oct 28 20:43	0°♊		
greatest brilliancy	13897 May 25 14:41	7°♋17'08 -4.8m		evening rise	13899 Oct 29 04:36	0°♊24'32		
	13897 Jun 26 15:38	0°♋			13899 Nov 22 01:27	0°♌		
morning max el	13897 Jul 04 13:59	7°♋41'52 46°49'22			13899 Dec 16 11:16	0°♍		
desc. node	13897 Jul 23 10:21	27°♋36'06		desc. node	13900 Jan 07 19:06	27°♍08'08		
	13897 Jul 25 14:30	0°♎			13900 Jan 10 04:04	0°♐		
	13897 Aug 20 19:00	0°♏			13900 Feb 04 05:35	0°♑		
	13897 Sep 14 23:32	0°♓			13900 Mar 01 18:17	0°♒		
	13897 Oct 09 17:43	0°♐			13900 Mar 28 01:35	0°♓		
	13897 Nov 03 06:52	0°♑			13900 Apr 25 05:22	0°♔		
asc. node	13897 Nov 13 06:46	12°♑15'56		evening max el	13900 Apr 27 03:12	1°♔53'47 46°21'56		
	13897 Nov 27 16:58	0°♊		asc. node	13900 Apr 30 16:21	5°♔21'10		
	13897 Dec 22 01:01	0°♋			13900 Jun 01 18:31	0°♌		
morning set	13898 Jan 04 12:13	16°♋37'22		greatest brilliancy	13900 Jun 06 09:29	1°♌53'50 -4.9m		
	13898 Jan 15 08:11	0°♍		retrograde	13900 Jun 15 22:12	3°♌35'40		
	13898 Feb 08 15:32	0°♐			13900 Jun 29 07:52	30°♌♎		
				evening set	13900 Jul 03 19:16	27°♎29'01		
superior conj	13898 Feb 10 08:50	2°♐07'24 0°50'57		inferior conj	13900 Jul 06 14:00	25°♎46'52 8°49'07		
minimum elong	13898 Feb 10 18:17	2°♐36'32 0°51'10		minimum elong	13900 Jul 06 20:14	25°♎37'14 8°47'33		
max. Earth dist.	13898 Feb 10 17:16	2°♐33'23 1.73152 AU		min. Earth dist.	13900 Jul 07 02:19	25°♎27'50 0.27362 AU		
desc. node	13898 Mar 04 21:07	29°♐52'53		morning rise	13900 Jul 09 21:10	23°♎46'03		
	13898 Mar 04 23:26	0°♒		direct	13900 Jul 27 10:48	17°♎51'48		
evening rise	13898 Mar 20 07:26	18°♒54'23		greatest brilliancy	13900 Aug 06 11:22	19°♎46'02 -4.9m		
	13898 Mar 29 07:20	0°♋		desc. node	13900 Aug 20 19:41	27°♎40'47		
	13898 Apr 22 14:37	0°♌			13900 Aug 23 23:32	0°♏		
	13898 May 16 21:37	0°♎		morning max el	13900 Sep 15 21:34	20°♏34'42 46°50'38		
	13898 Jun 10 06:09	0°♏			13900 Sep 25 01:47	0°♓		
asc. node	13898 Jun 25 12:25	18°♏41'16			13900 Oct 22 07:50	0°♐		
	13898 Jul 04 19:28	0°♑			13900 Nov 17 04:57	0°♑		
	13898 Jul 29 18:52	0°♒		asc. node	13900 Dec 11 19:25	29°♑14'14		
	13898 Aug 24 14:57	0°♓			13900 Dec 12 10:41	0°♊		
evening max el	13898 Sep 21 10:19	29°♓51'01 46°31'58			13901 Jan 06 07:11	0°♋		
	13898 Sep 21 13:55	0°♊			13901 Jan 30 21:41	0°♌		
desc. node	13898 Oct 15 11:54	21°♊05'27			13901 Feb 24 08:30	0°♍		
greatest brilliancy	13898 Oct 30 17:43	29°♊46'05 -4.8m		morning set	13901 Mar 15 11:33	23°♊33'17		
	13898 Oct 31 08:47	0°♋			13901 Mar 20 16:58	0°♎		
retrograde	13898 Nov 10 12:34	1°♋54'53		desc. node	13901 Apr 02 11:43	15°♎47'14		
	13898 Nov 20 06:22	30°♋♊			13901 Apr 13 23:17	0°♋		
evening set	13898 Nov 28 09:44	25°♊51'24		max. Earth dist.	13901 Apr 20 06:03	7°♋47'07 1.72510 AU		
inferior conj	13898 Dec 01 21:43	23°♊42'27 -8°38'17						
minimum elong	13898 Dec 01 16:46	23°♊50'07 8°36'54		superior conj	13901 Apr 23 02:28	11°♋19'18 -0°47'23		
min. Earth dist.	13898 Dec 01 06:41	24°♊05'47 0.28524 AU		minimum elong	13901 Apr 22 16:34	10°♋48'34 0°47'34		
morning rise	13898 Dec 04 23:58	21°♊48'24			13901 May 08 03:13	0°♌		
direct	13898 Dec 23 02:42	15°♊39'07		evening rise	13901 Jun 01 03:07	29°♌54'23		
greatest brilliancy	13899 Jan 01 22:41	17°♊24'48 -4.8m			13901 Jun 01 04:55	0°♎		
	13899 Jan 23 03:39	0°♋			13901 Jun 25 05:30	0°♏		
asc. node	13899 Feb 05 14:45	11°♋39'15			13901 Jul 19 06:50	0°♓		
morning max el	13899 Feb 10 02:20	15°♋54'47 45°43'03		asc. node	13901 Jul 24 01:20	5°♓56'06		
	13899 Feb 24 00:31	0°♍			13901 Aug 12 11:05	0°♐		
	13899 Mar 23 06:50	0°♐			13901 Sep 05 21:05	0°♑		
	13899 Apr 18 00:59	0°♒			13901 Sep 30 17:35	0°♊		

	13901 Oct 26 10:11	0° $\text{Z}$			13904 Mar 10 12:19	0° $\text{H}$		
desc. node	13901 Nov 12 21:39	19° $\text{Z}$ 25'39			13904 Apr 04 03:49	0° $\text{Y}$		
	13901 Nov 22 21:51	0° $\approx$			13904 Apr 28 13:33	0° $\text{B}$		
evening max el	13901 Dec 02 17:13	9° $\approx$ 49'44	46°03'32	desc. node	13904 Apr 30 02:04	1° $\text{B}$ 52'45		
	13901 Dec 26 08:10	0° $\text{H}$			13904 May 22 18:32	0° $\text{II}$		
greatest brilliancy	13902 Jan 10 21:34	8° $\text{H}$ 25'22	-4.8m	morning set	13904 May 26 21:53	5° $\text{II}$ 09'07		
retrograde	13902 Jan 20 19:18	10° $\text{H}$ 12'08			13904 Jun 15 19:38	0° $\text{D}$		
evening set	13902 Feb 06 04:00	5° $\text{H}$ 05'11		max. Earth dist.	13904 Jul 04 02:19	22° $\text{D}$ 53'43	1.71534 AU	
inferior conj	13902 Feb 11 04:56	2° $\text{H}$ 00'14	-5°14'39					
minimum elong	13902 Feb 11 14:41	1° $\text{H}$ 44'53	5°11'39	superior conj	13904 Jul 05 20:07	25° $\text{D}$ 04'45	-1°23'49	
min. Earth dist.	13902 Feb 11 14:24	1° $\text{H}$ 45'20	0.28667 AU	minimum elong	13904 Jul 06 02:41	25° $\text{D}$ 25'22	1°24'43	
	13902 Feb 14 10:12	30° $\text{R}$ $\approx$			13904 Jul 09 18:17	0° $\Omega$		
morning rise	13902 Feb 17 01:13	28° $\approx$ 27'37			13904 Aug 02 16:17	0° $\text{M}$		
direct	13902 Mar 04 13:29	23° $\approx$ 47'52		evening rise	13904 Aug 15 01:54	15° $\text{M}$ 32'21		
asc. node	13902 Mar 05 23:50	23° $\approx$ 50'16		asc. node	13904 Aug 20 15:26	22° $\text{M}$ 30'16		
greatest brilliancy	13902 Mar 15 08:52	25° $\approx$ 56'14	-4.8m		13904 Aug 26 15:14	0° $\underline{\text{A}}$		
	13902 Mar 23 15:43	0° $\text{H}$			13904 Sep 19 16:31	0° $\text{M}$		
morning max el	13902 Apr 22 23:30	24° $\text{H}$ 57'51	46°06'00		13904 Oct 13 21:54	0° $\text{A}$		
	13902 Apr 28 00:13	0° $\text{Y}$			13904 Nov 07 10:24	0° $\text{Z}$		
	13902 May 25 17:39	0° $\text{B}$			13904 Dec 02 10:41	0° $\approx$		
	13902 Jun 20 13:14	0° $\text{II}$		desc. node	13904 Dec 10 08:36	9° $\approx$ 19'15		
desc. node	13902 Jun 26 01:38	6° $\text{II}$ 34'17			13904 Dec 28 05:49	0° $\text{H}$		
	13902 Jul 15 11:37	0° $\text{D}$			13905 Jan 24 10:02	0° $\text{Y}$		
	13902 Aug 08 22:49	0° $\Omega$		evening max el	13905 Feb 11 15:59	18° $\text{Y}$ 34'25	45°57'21	
	13902 Sep 02 04:29	0° $\text{M}$			13905 Feb 24 03:20	0° $\text{B}$		
	13902 Sep 26 08:00	0° $\underline{\text{A}}$		greatest brilliancy	13905 Mar 22 20:37	17° $\text{B}$ 19'43	-4.8m	
asc. node	13902 Oct 16 18:47	25° $\underline{\text{A}}$ 25'46		retrograde	13905 Apr 01 20:32	19° $\text{B}$ 10'41		
	13902 Oct 20 10:58	0° $\text{M}$		asc. node	13905 Apr 02 09:04	19° $\text{B}$ 10'21		
morning set	13902 Oct 25 02:44	5° $\text{M}$ 47'33		evening set	13905 Apr 16 23:10	14° $\text{B}$ 41'47		
	13902 Nov 13 14:03	0° $\text{A}$		inferior conj	13905 Apr 22 21:13	11° $\text{B}$ 08'55	4°53'40	
				minimum elong	13905 Apr 22 11:36	11° $\text{B}$ 23'55	4°50'30	
superior conj	13902 Dec 01 23:41	22° $\text{A}$ 51'14	1°23'13	min. Earth dist.	13905 Apr 22 21:14	11° $\text{B}$ 08'53	0.27994 AU	
minimum elong	13902 Dec 01 18:31	22° $\text{A}$ 35'13	1°24'11	morning rise	13905 Apr 27 23:45	8° $\text{B}$ 02'44		
max. Earth dist.	13902 Dec 04 04:32	25° $\text{A}$ 35'10	1.72675 AU	direct	13905 May 13 22:55	3° $\text{B}$ 02'06		
	13902 Dec 07 17:58	0° $\text{Z}$		greatest brilliancy	13905 May 24 05:59	5° $\text{B}$ 01'04	-4.8m	
	13902 Dec 31 23:50	0° $\approx$			13905 Jun 27 16:19	0° $\text{II}$		
evening rise	13903 Jan 08 02:32	8° $\approx$ 46'16		morning max el	13905 Jul 03 05:28	5° $\text{II}$ 26'15	46°48'27	
	13903 Jan 25 08:46	0° $\text{H}$		desc. node	13905 Jul 23 12:13	26° $\text{II}$ 55'05		
desc. node	13903 Feb 05 08:32	13° $\text{H}$ 28'07			13905 Jul 26 06:50	0° $\text{D}$		
	13903 Feb 18 21:06	0° $\text{Y}$			13905 Aug 21 08:39	0° $\Omega$		
	13903 Mar 15 12:27	0° $\text{B}$			13905 Sep 15 11:54	0° $\text{M}$		
	13903 Apr 09 06:55	0° $\text{II}$			13905 Oct 10 05:19	0° $\underline{\text{A}}$		
	13903 May 04 06:51	0° $\text{D}$			13905 Nov 03 17:59	0° $\text{M}$		
asc. node	13903 May 29 02:37	29° $\text{D}$ 12'36		asc. node	13905 Nov 13 08:39	11° $\text{M}$ 48'02		
	13903 May 29 19:00	0° $\Omega$			13905 Nov 28 03:43	0° $\text{A}$		
	13903 Jun 25 11:55	0° $\text{M}$			13905 Dec 22 11:31	0° $\text{Z}$		
evening max el	13903 Jul 10 03:37	15° $\text{M}$ 17'24	46°44'16	morning set	13906 Jan 03 05:01	14° $\text{Z}$ 28'54		
	13903 Jul 25 20:38	0° $\underline{\text{A}}$			13906 Jan 15 18:33	0° $\approx$		
greatest brilliancy	13903 Aug 18 23:14	15° $\underline{\text{A}}$ 44'41	-4.9m					
retrograde	13903 Aug 29 09:48	17° $\underline{\text{A}}$ 47'17		superior conj	13906 Feb 09 01:08	29° $\approx$ 57'43	0°53'39	
evening set	13903 Sep 12 23:15	13° $\underline{\text{A}}$ 38'34		minimum elong	13906 Feb 09 10:47	0° $\text{H}$ 27'29	0°53'53	
desc. node	13903 Sep 18 04:43	10° $\underline{\text{A}}$ 36'55			13906 Feb 09 01:53	0° $\text{H}$		
inferior conj	13903 Sep 19 05:36	9° $\underline{\text{A}}$ 58'57	-0°16'12	max. Earth dist.	13906 Feb 09 14:23	0° $\text{H}$ 38'36	1.73153 AU	
minimum elong	13903 Sep 19 04:58	9° $\underline{\text{A}}$ 59'55	0°15'55	desc. node	13906 Mar 04 22:56	29° $\text{H}$ 26'25		
transit middle	13903 Sep 19 04:58	9° $\underline{\text{A}}$ 59'55	0°15'55		13906 Mar 05 09:50	0° $\text{Y}$		
transit begin	13903 Sep 19 03:48	10° $\underline{\text{A}}$ 01'41		evening rise	13906 Mar 18 23:01	16° $\text{Y}$ 42'12		
transit end	13903 Sep 19 06:08	9° $\underline{\text{A}}$ 58'09			13906 Mar 29 17:52	0° $\text{B}$		
min. Earth dist.	13903 Sep 18 23:12	10° $\underline{\text{A}}$ 08'43	0.27068 AU		13906 Apr 23 01:23	0° $\text{II}$		
morning rise	13903 Sep 25 10:59	6° $\underline{\text{A}}$ 20'50			13906 May 17 08:42	0° $\text{D}$		
direct	13903 Oct 09 23:29	2° $\underline{\text{A}}$ 14'29			13906 Jun 10 17:39	0° $\Omega$		
greatest brilliancy	13903 Oct 19 19:18	4° $\underline{\text{A}}$ 00'34	-4.8m	asc. node	13906 Jun 25 14:13	18° $\Omega$ 10'42		
	13903 Nov 25 04:38	0° $\text{M}$			13906 Jul 05 07:37	0° $\text{M}$		
morning max el	13903 Nov 28 08:49	3° $\text{M}$ 02'29	46°09'03		13906 Jul 30 08:08	0° $\underline{\text{A}}$		
	13903 Dec 24 07:59	0° $\text{A}$			13906 Aug 25 06:31	0° $\text{M}$		
asc. node	13904 Jan 09 06:45	17° $\text{A}$ 46'26		evening max el	13906 Sep 20 02:10	27° $\text{M}$ 37'00	46°32'50	
	13904 Jan 19 23:08	0° $\text{Z}$			13906 Sep 22 11:58	0° $\text{A}$		
	13904 Feb 14 12:36	0° $\approx$		desc. node	13906 Oct 15 13:55	19° $\text{A}$ 53'01		

greatest brilliancy	13906 Oct 29 07:52	27°♊30'50	-4.8m	desc. node	13909 Apr 01 13:38	15°♊20'38	
retrograde	13906 Nov 09 04:31	29°♊40'53			13909 Apr 13 09:49	0°♊	
evening set	13906 Nov 26 21:54	23°♊42'12		max. Earth dist.	13909 Apr 17 20:02	5°♊29'07	1.72548 AU
min. Earth dist.	13906 Nov 29 20:26	21°♊54'12	0.28483 AU				
inferior conj	13906 Nov 30 12:47	21°♊28'49	-8°33'07	superior conj	13909 Apr 20 16:33	9°♊01'29	-0°44'18
minimum elong	13906 Nov 30 07:07	21°♊37'37	8°31'37	minimum elong	13909 Apr 20 07:05	8°♊32'07	0°44'27
morning rise	13906 Dec 03 16:33	19°♊32'38			13909 May 07 13:48	0°♊	
direct	13906 Dec 21 18:05	13°♊26'24		evening rise	13909 May 29 15:54	27°♊31'11	
greatest brilliancy	13906 Dec 31 11:47	15°♊10'29	-4.8m		13909 May 31 15:37	0°♊	
	13907 Jan 24 12:33	0°♊			13909 Jun 24 16:22	0°♊	
asc. node	13907 Feb 05 16:40	10°♊48'25			13909 Jul 18 17:55	0°♊	
morning max el	13907 Feb 08 17:39	13°♊42'47	45°43'02	asc. node	13909 Jul 23 03:12	5°♊27'15	
	13907 Feb 24 18:04	0°♊			13909 Aug 11 22:30	0°♊	
	13907 Mar 23 20:42	0°♊			13909 Sep 05 09:00	0°♊	
	13907 Apr 18 13:18	0°♊			13909 Sep 30 06:21	0°♊	
	13907 May 13 12:41	0°♊			13909 Oct 26 00:41	0°♊	
desc. node	13907 May 28 15:22	18°♊25'49		desc. node	13909 Nov 11 23:35	18°♊45'46	
	13907 Jun 07 01:23	0°♊			13909 Nov 22 16:50	0°♊	
	13907 Jul 01 06:51	0°♊		evening max el	13909 Nov 30 07:10	7°♊34'10	46°04'18
	13907 Jul 25 07:53	0°♊			13909 Dec 27 05:20	0°♊	
morning set	13907 Aug 10 17:57	20°♊33'19		greatest brilliancy	13910 Jan 08 13:34	6°♊15'18	-4.8m
	13907 Aug 18 06:55	0°♊		retrograde	13910 Jan 18 10:29	8°♊01'49	
	13907 Sep 11 05:46	0°♊		evening set	13910 Feb 03 22:38	2°♊50'31	
asc. node	13907 Sep 18 06:05	8°♊46'35		inferior conj	13910 Feb 08 20:53	29°♊49'36	-5°31'06
				minimum elong	13910 Feb 09 06:52	29°♊33'53	5°28'05
superior conj	13907 Sep 19 07:20	10°♊05'31	0°02'36		13910 Feb 08 14:16	30°♊	
minimum elong	13907 Sep 19 06:40	10°♊03'26	0°02'39	min. Earth dist.	13910 Feb 09 06:32	29°♊34'25	0.28691 AU
behind sun begin	13907 Sep 18 06:08	8°♊46'43		morning rise	13910 Feb 14 14:55	26°♊19'59	
behind sun end	13907 Sep 20 07:11	11°♊20'10		direct	13910 Mar 02 04:59	21°♊36'59	
max. Earth dist.	13907 Sep 21 02:17	12°♊19'52	1.71747 AU	asc. node	13910 Mar 05 01:58	21°♊46'33	
	13907 Oct 05 05:33	0°♊		greatest brilliancy	13910 Mar 13 01:21	23°♊45'43	-4.8m
evening rise	13907 Oct 27 20:07	28°♊10'57			13910 Mar 24 19:32	0°♊	
	13907 Oct 29 07:11	0°♊		morning max el	13910 Apr 20 14:04	22°♊42'11	46°04'36
	13907 Nov 22 12:03	0°♊			13910 Apr 27 19:55	0°♊	
	13907 Dec 16 22:05	0°♊			13910 May 25 08:31	0°♊	
desc. node	13908 Jan 07 20:51	26°♊39'39			13910 Jun 20 02:14	0°♊	
	13908 Jan 10 15:18	0°♊		desc. node	13910 Jun 25 03:31	6°♊01'45	
	13908 Feb 04 17:31	0°♊			13910 Jul 14 23:42	0°♊	
	13908 Mar 01 07:28	0°♊			13910 Aug 08 10:21	0°♊	
	13908 Mar 27 17:15	0°♊			13910 Sep 01 15:41	0°♊	
evening max el	13908 Apr 24 16:52	29°♊33'34	46°20'44		13910 Sep 25 18:59	0°♊	
	13908 Apr 25 03:36	0°♊		asc. node	13910 Oct 15 20:37	24°♊57'48	
asc. node	13908 Apr 29 18:21	4°♊27'37			13910 Oct 19 21:46	0°♊	
greatest brilliancy	13908 Jun 03 22:57	29°♊31'53	-4.9m	morning set	13910 Oct 22 17:13	3°♊29'47	
	13908 Jun 05 10:23	0°♊			13910 Nov 13 00:43	0°♊	
retrograde	13908 Jun 13 10:53	1°♊12'54					
	13908 Jun 21 04:28	30°♊		superior conj	13910 Nov 29 16:02	20°♊40'14	1°22'16
evening set	13908 Jul 01 10:44	25°♊03'01		minimum elong	13910 Nov 29 10:11	20°♊22'04	1°23'12
inferior conj	13908 Jul 04 03:15	23°♊23'56	8°55'19	max. Earth dist.	13910 Dec 01 18:36	23°♊17'08	1.72642 AU
minimum elong	13908 Jul 04 08:40	23°♊15'34	8°53'53		13910 Dec 07 04:32	0°♊	
min. Earth dist.	13908 Jul 04 15:17	23°♊05'19	0.27389 AU		13910 Dec 31 10:25	0°♊	
morning rise	13908 Jul 07 06:33	21°♊28'35		evening rise	13911 Jan 05 18:54	6°♊36'07	
direct	13908 Jul 25 00:06	15°♊28'25			13911 Jan 24 19:29	0°♊	
greatest brilliancy	13908 Aug 04 00:36	17°♊22'06	-4.9m	desc. node	13911 Feb 04 10:27	13°♊00'55	
desc. node	13908 Aug 19 21:41	26°♊23'18			13911 Feb 18 08:05	0°♊	
	13908 Aug 24 14:06	0°♊			13911 Mar 14 23:50	0°♊	
morning max el	13908 Sep 13 10:26	18°♊10'33	46°51'39		13911 Apr 08 18:55	0°♊	
	13908 Sep 24 21:00	0°♊			13911 May 03 19:50	0°♊	
	13908 Oct 21 22:39	0°♊		asc. node	13911 May 28 04:27	28°♊35'34	
	13908 Nov 16 17:49	0°♊			13911 May 29 09:44	0°♊	
asc. node	13908 Dec 10 21:16	28°♊44'14			13911 Jun 25 06:34	0°♊	
	13908 Dec 11 22:30	0°♊		evening max el	13911 Jul 07 16:17	12°♊52'08	46°44'01
	13909 Jan 05 18:22	0°♊			13911 Jul 26 06:30	0°♊	
	13909 Jan 30 08:30	0°♊		greatest brilliancy	13911 Aug 16 13:30	13°♊21'18	-4.9m
	13909 Feb 23 19:07	0°♊		retrograde	13911 Aug 26 23:08	15°♊23'25	
morning set	13909 Mar 13 03:26	21°♊21'48		evening set	13911 Sep 10 13:02	11°♊13'25	
	13909 Mar 20 03:29	0°♊		inferior conj	13911 Sep 16 18:30	7°♊35'24	0°08'00

minimum elong	13911 Sep 16 18:49	7° $\Omega$ 34'55	0°07'55	minimum elong	13914 Feb 07 03:19	28° $\approx$ 17'07	0°56'32
transit middle	13911 Sep 16 18:49	7° $\Omega$ 34'55	0°07'55	max. Earth dist.	13914 Feb 07 10:44	28° $\approx$ 39'59	1.73149 AU
transit begin	13911 Sep 16 15:14	7° $\Omega$ 40'23			13914 Feb 08 12:40	0° $\mathcal{H}$	
transit end	13911 Sep 16 22:24	7° $\Omega$ 29'28		desc. node	13914 Mar 04 00:50	28° $\mathcal{H}$ 58'56	
min. Earth dist.	13911 Sep 16 13:28	7° $\Omega$ 43'04	0.27046 AU		13914 Mar 04 20:39	0° $\Upsilon$	
desc. node	13911 Sep 17 06:47	7° $\Omega$ 16'41		evening rise	13914 Mar 16 14:43	14° $\Upsilon$ 29'08	
morning rise	13911 Sep 23 00:50	3° $\Omega$ 56'19			13914 Mar 29 04:49	0° $\mathcal{B}$	
	13911 Oct 04 17:09	30° $\mathcal{R}\mathcal{M}$			13914 Apr 22 12:32	0° $\Pi$	
direct	13911 Oct 07 11:58	29° $\mathcal{M}$ 50'43			13914 May 16 20:11	0° $\mathcal{G}$	
	13911 Oct 10 07:45	0° $\Omega$			13914 Jun 10 05:38	0° $\Omega$	
greatest brilliancy	13911 Oct 17 09:03	1° $\Omega$ 38'15	-4.8m	asc. node	13914 Jun 24 16:06	17° $\Omega$ 38'48	
	13911 Nov 25 04:47	0° $\mathcal{M}$			13914 Jul 04 20:19	0° $\mathcal{M}$	
morning max el	13911 Nov 25 23:05	0° $\mathcal{M}$ 44'16	46°10'44		13914 Jul 29 22:04	0° $\Omega$	
	13911 Dec 24 00:17	0° $\mathcal{A}$			13914 Aug 24 22:58	0° $\mathcal{M}$	
asc. node	13912 Jan 08 08:39	17° $\mathcal{A}$ 10'49		evening max el	13914 Sep 17 17:47	25° $\mathcal{M}$ 20'32	46°33'43
	13912 Jan 19 12:40	0° $\mathcal{B}$			13914 Sep 22 11:44	0° $\mathcal{A}$	
	13912 Feb 14 00:49	0° $\approx$		desc. node	13914 Oct 14 15:50	18° $\mathcal{A}$ 36'16	
	13912 Mar 09 23:50	0° $\mathcal{H}$		greatest brilliancy	13914 Oct 26 22:36	25° $\mathcal{A}$ 14'19	-4.8m
	13912 Apr 03 14:59	0° $\Upsilon$		retrograde	13914 Nov 06 19:59	27° $\mathcal{A}$ 24'37	
	13912 Apr 28 00:32	0° $\mathcal{B}$		evening set	13914 Nov 24 09:42	21° $\mathcal{A}$ 31'26	
desc. node	13912 Apr 29 03:51	1° $\mathcal{B}$ 24'22		min. Earth dist.	13914 Nov 27 10:20	19° $\mathcal{A}$ 40'13	0.28437 AU
	13912 May 22 05:26	0° $\Pi$		inferior conj	13914 Nov 28 03:41	19° $\mathcal{A}$ 13'13	-8°27'07
morning set	13912 May 24 10:06	2° $\Pi$ 43'51		minimum elong	13914 Nov 27 21:19	19° $\mathcal{A}$ 23'08	8°25'31
	13912 Jun 15 06:30	0° $\mathcal{G}$		morning rise	13914 Dec 01 09:11	17° $\mathcal{A}$ 14'25	
max. Earth dist.	13912 Jul 01 13:37	20° $\mathcal{G}$ 24'33	1.71553 AU	direct	13914 Dec 19 09:07	11° $\mathcal{A}$ 11'50	
				greatest brilliancy	13914 Dec 29 00:48	12° $\mathcal{A}$ 54'10	-4.8m
superior conj	13912 Jul 03 08:00	22° $\mathcal{G}$ 37'27	-1°24'50		13915 Jan 24 19:37	0° $\mathcal{B}$	
minimum elong	13912 Jul 03 13:40	22° $\mathcal{G}$ 55'12	1°25'47	asc. node	13915 Feb 04 18:46	9° $\mathcal{B}$ 57'27	
	13912 Jul 09 05:10	0° $\Omega$		morning max el	13915 Feb 06 08:02	11° $\mathcal{B}$ 26'58	45°43'05
	13912 Aug 02 03:12	0° $\mathcal{M}$			13915 Feb 24 11:45	0° $\approx$	
evening rise	13912 Aug 12 13:45	13° $\mathcal{M}$ 04'59			13915 Mar 23 10:53	0° $\mathcal{H}$	
asc. node	13912 Aug 19 17:20	22° $\mathcal{M}$ 01'54			13915 Apr 18 01:58	0° $\Upsilon$	
	13912 Aug 26 02:14	0° $\Omega$			13915 May 13 00:34	0° $\mathcal{B}$	
	13912 Sep 19 03:39	0° $\mathcal{M}$		desc. node	13915 May 27 17:14	17° $\mathcal{B}$ 56'00	
	13912 Oct 13 09:17	0° $\mathcal{A}$			13915 Jun 06 12:49	0° $\Pi$	
	13912 Nov 06 22:14	0° $\mathcal{B}$			13915 Jun 30 18:05	0° $\mathcal{G}$	
	13912 Dec 01 23:20	0° $\approx$			13915 Jul 24 18:59	0° $\Omega$	
desc. node	13912 Dec 09 10:25	8° $\approx$ 46'37		morning set	13915 Aug 08 06:26	18° $\Omega$ 07'33	
	13912 Dec 27 20:00	0° $\mathcal{H}$			13915 Aug 17 17:56	0° $\mathcal{M}$	
	13913 Jan 24 03:43	0° $\Upsilon$			13915 Sep 10 16:43	0° $\Omega$	
evening max el	13913 Feb 09 07:50	16° $\Upsilon$ 22'26	45°57'10				
	13913 Feb 24 10:14	0° $\mathcal{B}$		superior conj	13915 Sep 16 20:18	7° $\Omega$ 41'44	-0°01'12
greatest brilliancy	13913 Mar 20 10:22	15° $\mathcal{B}$ 02'44	-4.8m	minimum elong	13915 Sep 16 20:36	7° $\Omega$ 42'39	0°01'09
retrograde	13913 Mar 30 11:39	16° $\mathcal{B}$ 54'18		behind sun begin	13915 Sep 15 19:53	6° $\Omega$ 25'19	
asc. node	13913 Apr 01 10:59	16° $\mathcal{B}$ 49'37		behind sun end	13915 Sep 17 21:19	8° $\Omega$ 59'59	
evening set	13913 Apr 14 12:01	12° $\mathcal{B}$ 27'57		asc. node	13915 Sep 17 07:57	8° $\Omega$ 18'12	
inferior conj	13913 Apr 20 12:02	8° $\mathcal{B}$ 52'01	4°34'34	max. Earth dist.	13915 Sep 18 14:27	9° $\Omega$ 53'36	1.71719 AU
minimum elong	13913 Apr 20 02:50	9° $\mathcal{B}$ 06'22	4°31'30		13915 Oct 04 16:28	0° $\mathcal{M}$	
min. Earth dist.	13913 Apr 20 11:50	8° $\mathcal{B}$ 52'20	0.28012 AU	evening rise	13915 Oct 25 11:03	25° $\mathcal{M}$ 54'01	
morning rise	13913 Apr 25 17:28	5° $\mathcal{B}$ 41'48			13915 Oct 28 18:08	0° $\mathcal{A}$	
direct	13913 May 11 14:32	0° $\mathcal{B}$ 45'07			13915 Nov 21 23:06	0° $\mathcal{B}$	
greatest brilliancy	13913 May 21 20:58	2° $\mathcal{B}$ 43'49	-4.8m		13915 Dec 16 09:22	0° $\approx$	
	13913 Jun 27 16:20	0° $\Pi$		desc. node	13916 Jan 06 22:48	26° $\approx$ 10'24	
morning max el	13913 Jun 30 20:58	3° $\Pi$ 09'27	46°47'12		13916 Jan 10 03:01	0° $\mathcal{H}$	
desc. node	13913 Jul 22 14:15	26° $\Pi$ 13'31			13916 Feb 04 05:59	0° $\Upsilon$	
	13913 Jul 25 23:24	0° $\mathcal{G}$			13916 Feb 29 21:15	0° $\mathcal{B}$	
	13913 Aug 20 22:41	0° $\Omega$			13916 Mar 27 09:37	0° $\Pi$	
	13913 Sep 15 00:40	0° $\mathcal{M}$		evening max el	13916 Apr 22 05:46	27° $\Pi$ 10'34	46°19'43
	13913 Oct 09 17:20	0° $\Omega$			13916 Apr 25 03:12	0° $\mathcal{G}$	
	13913 Nov 03 05:29	0° $\mathcal{M}$		asc. node	13916 Apr 28 20:17	3° $\mathcal{G}$ 31'47	
asc. node	13913 Nov 12 10:25	11° $\mathcal{M}$ 18'31		greatest brilliancy	13916 Jun 01 12:48	27° $\mathcal{G}$ 09'50	-4.8m
	13913 Nov 27 14:52	0° $\mathcal{A}$		retrograde	13916 Jun 10 23:27	28° $\mathcal{G}$ 50'02	
	13913 Dec 21 22:28	0° $\mathcal{B}$		evening set	13916 Jun 29 01:54	22° $\mathcal{G}$ 37'22	
morning set	13913 Dec 31 21:43	12° $\mathcal{B}$ 18'41		inferior conj	13916 Jul 01 16:42	21° $\mathcal{G}$ 00'51	9°00'23
	13914 Jan 15 05:23	0° $\approx$		minimum elong	13916 Jul 01 21:13	20° $\mathcal{G}$ 53'50	8°59'04
				min. Earth dist.	13916 Jul 02 04:37	20° $\mathcal{G}$ 42'22	0.27417 AU
superior conj	13914 Feb 06 17:32	27° $\approx$ 46'56	0°56'15	morning rise	13916 Jul 04 16:28	19° $\mathcal{G}$ 10'33	

direct	13916 Jul 22 13:10	13°☿04'39			13919 Jan 24 06:17	0°♄	
greatest brilliancy	13916 Aug 01 14:31	14°☿58'37	-4.9m	desc. node	13919 Feb 03 12:17	12°♄33'15	
desc. node	13916 Aug 18 23:46	25°☿07'42			13919 Feb 17 19:09	0°♄	
	13916 Aug 25 01:14	0°♄			13919 Mar 14 11:19	0°♄	
morning max el	13916 Sep 10 23:12	15°♄45'09	46°52'26		13919 Apr 08 07:01	0°♄	
	13916 Sep 24 16:03	0°♄			13919 May 03 08:56	0°☿	
	13916 Oct 21 13:40	0°♄		asc. node	13919 May 27 06:26	27°☿58'37	
	13916 Nov 16 07:01	0°♄			13919 May 29 00:41	0°♄	
asc. node	13916 Dec 09 23:13	28°♄13'29			13919 Jun 25 01:41	0°♄	
	13916 Dec 11 10:40	0°♄		evening max el	13919 Jul 05 06:09	10°♄30'16	46°43'54
	13917 Jan 05 05:53	0°☿			13919 Jul 26 19:33	0°♄	
	13917 Jan 29 19:37	0°♄		greatest brilliancy	13919 Aug 14 03:32	10°♄58'30	-4.9m
	13917 Feb 23 06:01	0°♄		retrograde	13919 Aug 24 13:14	13°♄00'31	
morning set	13917 Mar 10 19:09	19°♄08'48		evening set	13919 Sep 08 03:15	8°♄49'08	
	13917 Mar 19 14:18	0°♄		inferior conj	13919 Sep 14 07:34	5°♄12'49	0°32'00
desc. node	13917 Mar 31 15:21	14°♄52'29		minimum elong	13919 Sep 14 08:49	5°♄10'55	0°31'35
	13917 Apr 12 20:38	0°♄		min. Earth dist.	13919 Sep 14 03:32	5°♄18'57	0.27022 AU
max. Earth dist.	13917 Apr 15 11:09	3°♄13'40	1.72585 AU	desc. node	13919 Sep 16 08:38	3°♄58'33	
				morning rise	13919 Sep 20 14:40	1°♄33'11	
superior conj	13917 Apr 18 06:37	6°♄42'45	-0°41'08		13919 Sep 23 19:21	30°♄	
minimum elong	13917 Apr 17 21:39	6°♄14'57	0°41'16	direct	13919 Oct 05 01:02	27°♄28'13	
	13917 May 07 00:40	0°♄		greatest brilliancy	13919 Oct 14 22:17	29°♄16'25	-4.8m
evening rise	13917 May 27 04:58	25°♄08'10			13919 Oct 16 20:28	0°♄	
	13917 May 31 02:33	0°☿		morning max el	13919 Nov 23 14:06	28°♄28'48	46°12'13
	13917 Jun 24 03:25	0°♄			13919 Nov 25 03:28	0°♄	
	13917 Jul 18 05:10	0°♄			13919 Dec 23 16:03	0°♄	
asc. node	13917 Jul 22 05:09	4°♄58'13		asc. node	13920 Jan 07 10:40	16°♄36'19	
	13917 Aug 11 10:06	0°♄			13920 Jan 19 01:55	0°☿	
	13917 Sep 04 21:08	0°♄			13920 Feb 13 12:52	0°♄	
	13917 Sep 29 19:25	0°♄			13920 Mar 09 11:14	0°♄	
	13917 Oct 25 15:38	0°☿			13920 Apr 03 02:00	0°♄	
desc. node	13917 Nov 11 01:29	18°☿04'25			13920 Apr 27 11:22	0°♄	
	13917 Nov 22 12:46	0°♄		desc. node	13920 Apr 28 05:39	0°♄56'28	
evening max el	13917 Nov 27 21:01	5°♄17'24	46°05'07	morning set	13920 May 21 22:15	0°♄18'58	
	13917 Dec 28 11:32	0°♄			13920 May 21 16:09	0°♄	
greatest brilliancy	13918 Jan 06 04:58	4°♄03'22	-4.8m		13920 Jun 14 17:11	0°☿	
retrograde	13918 Jan 16 01:56	5°♄50'19		max. Earth dist.	13920 Jun 29 00:44	17°☿55'23	1.71572 AU
evening set	13918 Feb 01 17:07	0°♄34'21					
	13918 Feb 02 16:27	30°♄		superior conj	13920 Jun 30 19:51	20°☿10'30	-1°25'41
inferior conj	13918 Feb 06 12:39	27°♄37'38	-5°47'00	minimum elong	13920 Jul 01 00:34	20°☿25'17	1°26'41
minimum elong	13918 Feb 06 22:49	27°♄21'41	5°44'01		13920 Jul 08 15:52	0°♄	
min. Earth dist.	13918 Feb 06 22:19	27°♄22'28	0.28715 AU		13920 Aug 01 13:57	0°♄	
morning rise	13918 Feb 12 04:17	24°♄11'31		evening rise	13920 Aug 10 01:37	10°♄38'09	
direct	13918 Feb 27 20:19	19°♄24'44		asc. node	13920 Aug 18 19:07	21°♄33'50	
asc. node	13918 Mar 04 03:54	19°♄46'08			13920 Aug 25 13:02	0°♄	
greatest brilliancy	13918 Mar 10 17:36	21°♄34'07	-4.8m		13920 Sep 18 14:32	0°♄	
	13918 Mar 25 16:08	0°♄			13920 Oct 12 20:22	0°♄	
morning max el	13918 Apr 18 05:24	20°♄27'50	46°03'17		13920 Nov 06 09:46	0°☿	
	13918 Apr 27 15:15	0°♄			13920 Dec 01 11:40	0°♄	
	13918 May 24 23:22	0°♄		desc. node	13920 Dec 08 12:25	8°♄15'22	
	13918 Jun 19 15:17	0°♄			13920 Dec 27 09:59	0°♄	
desc. node	13918 Jun 24 05:27	5°♄29'11			13921 Jan 23 21:31	0°♄	
	13918 Jul 14 11:48	0°☿		evening max el	13921 Feb 07 00:02	14°♄12'03	45°56'46
	13918 Aug 07 21:54	0°♄			13921 Feb 24 19:26	0°♄	
	13918 Sep 01 02:52	0°♄		greatest brilliancy	13921 Mar 18 00:41	12°♄47'04	-4.8m
	13918 Sep 25 05:56	0°♄		retrograde	13921 Mar 28 02:21	14°♄38'25	
asc. node	13918 Oct 14 22:21	24°♄29'35		asc. node	13921 Mar 31 12:56	14°♄24'10	
	13918 Oct 19 08:33	0°♄		evening set	13921 Apr 12 01:06	10°♄14'40	
morning set	13918 Oct 20 07:50	1°♄12'26		inferior conj	13921 Apr 18 02:50	6°♄35'56	4°15'02
	13918 Nov 12 11:23	0°♄		minimum elong	13921 Apr 17 18:08	6°♄49'32	4°12'05
				min. Earth dist.	13921 Apr 18 02:41	6°♄36'10	0.28029 AU
superior conj	13918 Nov 27 08:16	18°♄28'40	1°21'10	morning rise	13921 Apr 23 11:01	3°♄21'39	
minimum elong	13918 Nov 27 01:46	18°♄08'30	1°22'05		13921 Apr 30 15:10	30°♄	
max. Earth dist.	13918 Nov 29 09:13	21°♄00'36	1.72617 AU	direct	13921 May 09 06:02	28°♄29'03	
	13918 Dec 06 15:09	0°☿			13921 May 18 04:33	0°♄	
	13918 Dec 30 21:05	0°♄		greatest brilliancy	13921 May 19 12:01	0°♄27'20	-4.8m
evening rise	13919 Jan 03 11:04	4°♄25'09			13921 Jun 27 14:58	0°♄	



morning max el	13921 Jun 28 11:40	0° $\Pi$ 51'36	46°45'55		13924 Jan 09 14:17	0° $\text{H}$	
desc. node	13921 Jul 21 16:15	25° $\Pi$ 33'13			13924 Feb 03 18:00	0° $\Upsilon$	
	13921 Jul 25 15:20	0° $\text{E}$			13924 Feb 29 10:38	0° $\text{B}$	
	13921 Aug 20 12:16	0° $\Omega$			13924 Mar 27 01:49	0° $\Pi$	
	13921 Sep 14 13:03	0° $\text{M}$		evening max el	13924 Apr 19 18:21	24° $\Pi$ 47'58	46°18'30
	13921 Oct 09 04:57	0° $\text{A}$			13924 Apr 25 03:30	0° $\text{E}$	
	13921 Nov 02 16:34	0° $\text{M}$		asc. node	13924 Apr 27 22:17	2° $\text{E}$ 35'56	
asc. node	13921 Nov 11 12:22	10° $\text{M}$ 50'52		greatest brilliancy	13924 May 30 02:17	24° $\text{E}$ 48'04	-4.8m
	13921 Nov 27 01:35	0° $\text{A}$		retrograde	13924 Jun 08 12:08	26° $\text{E}$ 28'02	
	13921 Dec 21 08:57	0° $\text{B}$		evening set	13924 Jun 26 16:29	20° $\text{E}$ 12'59	
morning set	13921 Dec 29 14:48	10° $\text{B}$ 10'59		inferior conj	13924 Jun 29 06:04	18° $\text{E}$ 38'23	9°04'24
	13922 Jan 14 15:46	0° $\approx$		minimum elong	13924 Jun 29 09:39	18° $\text{E}$ 32'50	9°03'12
				min. Earth dist.	13924 Jun 29 17:53	18° $\text{E}$ 20'04	0.27449 AU
superior conj	13922 Feb 04 10:16	25° $\approx$ 38'30	0°58'44	morning rise	13924 Jul 02 02:44	16° $\text{E}$ 52'45	
minimum elong	13922 Feb 04 20:07	26° $\approx$ 08'55	0°59'04	direct	13924 Jul 20 02:07	10° $\text{E}$ 41'20	
max. Earth dist.	13922 Feb 05 06:25	26° $\approx$ 40'41	1.73149 AU	greatest brilliancy	13924 Jul 30 04:37	12° $\text{E}$ 36'07	-4.9m
	13922 Feb 07 23:03	0° $\text{H}$		desc. node	13924 Aug 18 01:39	23° $\text{E}$ 54'43	
desc. node	13922 Mar 03 02:35	28° $\text{H}$ 32'08			13924 Aug 25 09:04	0° $\Omega$	
	13922 Mar 04 07:06	0° $\Upsilon$		morning max el	13924 Sep 08 12:34	13° $\Omega$ 22'05	46°53'19
evening rise	13922 Mar 14 06:29	12° $\Upsilon$ 17'21			13924 Sep 24 10:14	0° $\text{M}$	
	13922 Mar 28 15:25	0° $\text{B}$			13924 Oct 21 04:07	0° $\text{A}$	
	13922 Apr 21 23:23	0° $\Pi$			13924 Nov 15 19:43	0° $\text{M}$	
	13922 May 16 07:22	0° $\text{E}$		asc. node	13924 Dec 09 01:08	27° $\text{M}$ 43'49	
	13922 Jun 09 17:18	0° $\Omega$			13924 Dec 10 22:23	0° $\text{A}$	
asc. node	13922 Jun 23 18:06	17° $\Omega$ 08'12			13925 Jan 04 17:00	0° $\text{B}$	
	13922 Jul 04 08:43	0° $\text{M}$			13925 Jan 29 06:20	0° $\approx$	
	13922 Jul 29 11:46	0° $\text{A}$			13925 Feb 22 16:30	0° $\text{H}$	
	13922 Aug 24 15:19	0° $\text{M}$		morning set	13925 Mar 08 11:28	16° $\text{H}$ 59'02	
evening max el	13922 Sep 15 08:57	23° $\text{M}$ 03'59	46°34'35		13925 Mar 19 00:42	0° $\Upsilon$	
	13922 Sep 22 12:08	0° $\text{A}$		desc. node	13925 Mar 30 17:13	14° $\Upsilon$ 26'09	
desc. node	13922 Oct 13 17:51	17° $\text{A}$ 18'41			13925 Apr 12 07:03	0° $\text{B}$	
greatest brilliancy	13922 Oct 24 14:07	23° $\text{A}$ 00'04	-4.8m	max. Earth dist.	13925 Apr 13 05:30	1° $\text{B}$ 09'31	1.72625 AU
retrograde	13922 Nov 04 11:05	25° $\text{A}$ 09'59					
evening set	13922 Nov 21 21:30	19° $\text{A}$ 22'43		superior conj	13925 Apr 15 21:09	4° $\text{B}$ 26'42	-0°37'56
min. Earth dist.	13922 Nov 25 00:48	17° $\text{A}$ 27'30	0.28386 AU	minimum elong	13925 Apr 15 12:44	4° $\text{B}$ 00'38	0°38'04
inferior conj	13922 Nov 25 18:45	16° $\text{A}$ 59'33	-8°20'26		13925 May 06 11:10	0° $\Pi$	
minimum elong	13922 Nov 25 11:42	17° $\text{A}$ 10'32	8°18'41	evening rise	13925 May 24 18:19	22° $\Pi$ 47'11	
morning rise	13922 Nov 29 02:09	14° $\text{A}$ 57'46			13925 May 30 13:11	0° $\text{E}$	
direct	13922 Dec 16 23:49	8° $\text{A}$ 59'12			13925 Jun 23 14:13	0° $\Omega$	
greatest brilliancy	13922 Dec 26 14:24	10° $\text{A}$ 40'15	-4.8m		13925 Jul 17 16:14	0° $\text{M}$	
	13923 Jan 24 23:42	0° $\text{B}$		asc. node	13925 Jul 21 06:54	4° $\text{M}$ 29'14	
asc. node	13923 Feb 03 20:40	9° $\text{B}$ 08'40			13925 Aug 10 21:30	0° $\text{A}$	
morning max el	13923 Feb 03 21:43	9° $\text{B}$ 11'12	45°43'13		13925 Sep 04 09:05	0° $\text{M}$	
	13923 Feb 24 04:24	0° $\approx$			13925 Sep 29 08:20	0° $\text{A}$	
	13923 Mar 23 00:23	0° $\text{H}$			13925 Oct 25 06:32	0° $\text{B}$	
	13923 Apr 17 14:06	0° $\Upsilon$		desc. node	13925 Nov 10 03:32	17° $\text{B}$ 23'46	
	13923 May 12 12:01	0° $\text{B}$			13925 Nov 22 09:01	0° $\approx$	
desc. node	13923 May 26 19:13	17° $\text{B}$ 27'38		evening max el	13925 Nov 25 11:45	3° $\approx$ 03'40	46°06'04
	13923 Jun 05 23:55	0° $\Pi$			13925 Dec 30 07:03	0° $\text{H}$	
	13923 Jun 30 04:57	0° $\text{E}$		greatest brilliancy	13926 Jan 03 19:55	1° $\text{H}$ 52'06	-4.8m
	13923 Jul 24 05:42	0° $\Omega$		retrograde	13926 Jan 13 17:59	3° $\text{H}$ 40'06	
morning set	13923 Aug 05 18:39	15° $\Omega$ 42'11			13926 Jan 27 10:26	30° $\text{R}$ $\approx$	
	13923 Aug 17 04:32	0° $\text{M}$		evening set	13926 Jan 30 11:45	28° $\approx$ 19'23	
	13923 Sep 10 03:15	0° $\text{A}$		inferior conj	13926 Feb 04 04:31	25° $\approx$ 26'56	-6°02'25
				minimum elong	13926 Feb 04 14:47	25° $\approx$ 10'49	5°59'27
superior conj	13923 Sep 14 09:12	5° $\text{A}$ 18'59	-0°04'58	min. Earth dist.	13926 Feb 04 13:50	25° $\approx$ 12'18	0.28734 AU
minimum elong	13923 Sep 14 10:26	5° $\text{A}$ 22'51	0°04'55	morning rise	13926 Feb 09 17:38	22° $\approx$ 04'43	
behind sun begin	13923 Sep 13 10:34	4° $\text{A}$ 08'09		direct	13926 Feb 25 12:07	17° $\approx$ 13'51	
behind sun end	13923 Sep 15 10:19	6° $\text{A}$ 37'33		asc. node	13926 Mar 03 05:50	17° $\approx$ 51'25	
max. Earth dist.	13923 Sep 16 00:33	7° $\text{A}$ 22'04	1.71693 AU	greatest brilliancy	13926 Mar 08 09:28	19° $\approx$ 23'32	-4.8m
asc. node	13923 Sep 16 09:39	7° $\text{A}$ 50'32			13926 Mar 26 06:42	0° $\text{H}$	
	13923 Oct 04 03:00	0° $\text{M}$		morning max el	13926 Apr 15 21:37	18° $\text{H}$ 17'04	46°02'03
evening rise	13923 Oct 23 01:59	23° $\text{M}$ 38'18			13926 Apr 27 09:36	0° $\Upsilon$	
	13923 Oct 28 04:41	0° $\text{A}$			13926 May 24 13:39	0° $\text{B}$	
	13923 Nov 21 09:45	0° $\text{B}$			13926 Jun 19 03:56	0° $\Pi$	
	13923 Dec 15 20:13	0° $\approx$		desc. node	13926 Jun 23 07:23	4° $\text{H}$ 57'36	
desc. node	13924 Jan 06 00:43	25° $\approx$ 42'26			13926 Jul 13 23:38	0° $\text{E}$	

	13926 Aug 07 09:16	0°♋			13929 Feb 25 08:08	0°♄	
	13926 Aug 31 13:57	0°♍		greatest brilliancy	13929 Mar 15 15:39	10°♄31'52	-4.8m
	13926 Sep 24 16:46	0°♎		retrograde	13929 Mar 25 16:34	12°♄22'22	
asc. node	13926 Oct 14 00:18	24°♎02'27		asc. node	13929 Mar 30 15:03	11°♄53'05	
morning set	13926 Oct 17 22:02	28°♎54'08		evening set	13929 Apr 09 14:26	8°♄00'57	
	13926 Oct 18 19:12	0°♏		inferior conj	13929 Apr 15 17:43	4°♄19'49	3°55'14
	13926 Nov 11 21:54	0°♐		minimum elong	13929 Apr 15 09:33	4°♄32'37	3°52'24
				min. Earth dist.	13929 Apr 15 18:00	4°♄19'23	0.28041 AU
superior conj	13926 Nov 25 00:10	16°♐16'28	1°19'57	morning rise	13929 Apr 21 04:28	1°♄01'31	
minimum elong	13926 Nov 24 17:03	15°♐54'22	1°20'49		13929 Apr 23 01:40	30°♋♏	
max. Earth dist.	13926 Nov 27 01:45	18°♐50'26	1.72589 AU	direct	13929 May 06 21:13	26°♏12'55	
	13926 Dec 06 01:37	0°♑		greatest brilliancy	13929 May 17 03:39	28°♏11'16	-4.8m
	13926 Dec 30 07:36	0°♒			13929 May 21 08:55	0°♄	
evening rise	13927 Jan 01 03:14	2°♒14'35		morning max el	13929 Jun 26 01:28	28°♄31'22	46°44'47
	13927 Jan 23 16:57	0°♓			13929 Jun 27 12:45	0°♈	
desc. node	13927 Feb 02 14:04	12°♓05'52		desc. node	13929 Jul 20 18:08	24°♈52'58	
	13927 Feb 17 06:04	0°♏			13929 Jul 25 07:02	0°♄	
	13927 Mar 13 22:36	0°♄			13929 Aug 20 01:45	0°♋	
	13927 Apr 07 18:55	0°♈			13929 Sep 14 01:25	0°♍	
	13927 May 02 21:52	0°♄			13929 Oct 08 16:40	0°♎	
asc. node	13927 May 26 08:26	27°♄22'09			13929 Nov 02 03:50	0°♏	
	13927 May 28 15:34	0°♋		asc. node	13929 Nov 10 14:14	10°♏22'17	
	13927 Jun 24 21:12	0°♍			13929 Nov 26 12:33	0°♐	
evening max el	13927 Jul 02 20:44	8°♍10'39	46°43'25		13929 Dec 20 19:44	0°♑	
	13927 Jul 27 13:05	0°♎		morning set	13929 Dec 27 07:24	8°♑00'54	
greatest brilliancy	13927 Aug 11 17:18	8°♎35'04	-4.9m		13930 Jan 14 02:26	0°♒	
retrograde	13927 Aug 22 03:01	10°♎36'37					
evening set	13927 Sep 05 17:29	6°♎23'50		superior conj	13930 Feb 02 02:42	23°♒28'23	1°01'09
inferior conj	13927 Sep 11 20:22	2°♎49'15	0°56'14	minimum elong	13930 Feb 02 12:35	23°♒58'52	1°01'31
minimum elong	13927 Sep 11 22:34	2°♎45'55	0°55'28	max. Earth dist.	13930 Feb 02 23:59	24°♒34'02	1.73143 AU
min. Earth dist.	13927 Sep 11 17:19	2°♎53'54	0.27005 AU		13930 Feb 07 09:42	0°♓	
desc. node	13927 Sep 15 10:43	0°♎39'59		desc. node	13930 Mar 02 04:26	28°♓04'52	
	13927 Sep 16 14:42	30°♋♏			13930 Mar 03 17:49	0°♏	
morning rise	13927 Sep 18 03:59	29°♏09'11		evening rise	13930 Mar 11 22:03	10°♏04'16	
direct	13927 Oct 02 14:19	25°♏04'46			13930 Mar 28 02:18	0°♄	
greatest brilliancy	13927 Oct 12 11:05	26°♏53'05	-4.8m		13930 Apr 21 10:30	0°♈	
	13927 Oct 19 10:11	0°♎			13930 May 15 18:50	0°♄	
morning max el	13927 Nov 21 04:43	26°♎11'51	46°13'44		13930 Jun 09 05:13	0°♋	
	13927 Nov 25 01:25	0°♏		asc. node	13930 Jun 22 19:53	16°♋36'19	
	13927 Dec 23 07:38	0°♐			13930 Jul 03 21:22	0°♍	
asc. node	13928 Jan 06 12:35	16°♐01'38			13930 Jul 29 01:44	0°♎	
	13928 Jan 18 15:05	0°♑			13930 Aug 24 08:08	0°♏	
	13928 Feb 13 00:51	0°♒		evening max el	13930 Sep 12 23:04	20°♏44'09	46°35'16
	13928 Mar 08 22:35	0°♓			13930 Sep 22 14:05	0°♐	
	13928 Apr 02 12:59	0°♏		desc. node	13930 Oct 12 19:53	15°♐57'45	
	13928 Apr 26 22:08	0°♄		greatest brilliancy	13930 Oct 22 05:34	20°♐44'35	-4.8m
desc. node	13928 Apr 27 07:37	0°♄29'19		retrograde	13930 Nov 02 01:44	22°♐54'12	
morning set	13928 May 19 10:57	27°♄56'05		evening set	13930 Nov 19 09:00	17°♐12'48	
	13928 May 21 02:49	0°♈		min. Earth dist.	13930 Nov 22 15:31	15°♐12'54	0.28341 AU
	13928 Jun 14 03:49	0°♄		inferior conj	13930 Nov 23 09:43	14°♐44'34	-8°12'48
max. Earth dist.	13928 Jun 26 11:16	15°♄24'41	1.71592 AU	minimum elong	13930 Nov 23 02:02	14°♐56'33	8°10'53
				morning rise	13930 Nov 26 19:19	12°♐39'24	
superior conj	13928 Jun 28 08:10	17°♄45'21	-1°26'22	direct	13930 Dec 14 13:59	6°♐44'54	
minimum elong	13928 Jun 28 11:55	17°♄57'05	1°27'23	greatest brilliancy	13930 Dec 24 04:47	8°♐25'37	-4.8m
	13928 Jul 08 02:32	0°♋			13931 Jan 25 02:42	0°♑	
	13928 Aug 01 00:41	0°♍		morning max el	13931 Feb 01 11:12	6°♑53'23	45°43'27
evening rise	13928 Aug 07 13:35	8°♍11'36		asc. node	13931 Feb 02 22:38	8°♑19'24	
asc. node	13928 Aug 17 20:56	21°♍05'46			13931 Feb 23 21:13	0°♒	
	13928 Aug 24 23:52	0°♎			13931 Mar 22 14:11	0°♓	
	13928 Sep 18 01:32	0°♏			13931 Apr 17 02:33	0°♏	
	13928 Oct 12 07:39	0°♐			13931 May 11 23:46	0°♄	
	13928 Nov 05 21:32	0°♑		desc. node	13931 May 25 21:01	16°♄57'49	
	13928 Dec 01 00:19	0°♒			13931 Jun 05 11:18	0°♈	
desc. node	13928 Dec 07 14:20	7°♒43'06			13931 Jun 29 16:06	0°♄	
	13928 Dec 27 00:20	0°♓			13931 Jul 23 16:42	0°♋	
	13929 Jan 23 15:59	0°♏		morning set	13931 Aug 03 07:00	13°♋16'15	
evening max el	13929 Feb 04 15:35	11°♏59'32	45°56'28		13931 Aug 16 15:25	0°♍	

	13931 Sep 09 14:04	0°♄		inferior conj	13934 Feb 01 20:19	23°♊15'03	-6°17'17
				minimum elong	13934 Feb 02 06:40	22°♊58'52	6°14'21
superior conj	13931 Sep 11 22:24	2°♄56'18 -0°08'41		min. Earth dist.	13934 Feb 02 04:56	23°♊01'34	0.28757 AU
minimum elong	13931 Sep 12 00:34	3°♄03'06 0°08'37		morning rise	13934 Feb 07 06:47	19°♊56'56	
behind sun begin	13931 Sep 11 03:14	1°♄56'20		direct	13934 Feb 23 04:28	15°♊01'55	
behind sun end	13931 Sep 12 21:54	4°♄09'51		asc. node	13934 Mar 02 07:58	15°♊59'48	
max. Earth dist.	13931 Sep 13 09:59	4°♄47'40 1.71666 AU		greatest brilliancy	13934 Mar 06 00:47	17°♊11'06	-4.8m
asc. node	13931 Sep 15 11:35	7°♄22'48			13934 Mar 26 18:06	0°♋	
	13931 Oct 03 13:47	0°♌		morning max el	13934 Apr 13 14:13	16°♋05'53	46°00'39
evening rise	13931 Oct 20 17:13	21°♌22'41			13934 Apr 27 04:01	0°♌	
	13931 Oct 27 15:31	0°♍			13934 May 24 04:15	0°♍	
	13931 Nov 20 20:43	0°♎			13934 Jun 18 16:56	0°♎	
	13931 Dec 15 07:27	0°♏		desc. node	13934 Jun 22 09:17	4°♎24'44	
desc. node	13932 Jan 05 02:29	25°♏12'41			13934 Jul 13 11:47	0°♏	
	13932 Jan 09 02:00	0°♐			13934 Aug 06 20:56	0°♐	
	13932 Feb 03 06:33	0°♑			13934 Aug 31 01:18	0°♑	
	13932 Feb 29 00:38	0°♒			13934 Sep 24 03:54	0°♒	
	13932 Mar 26 18:50	0°♓		asc. node	13934 Oct 13 02:06	23°♓33'53	
evening max el	13932 Apr 17 07:08	22°♓24'50 46°17'31		morning set	13934 Oct 15 12:19	26°♓35'05	
	13932 Apr 25 05:40	0°♈			13934 Oct 18 06:09	0°♈	
asc. node	13932 Apr 27 00:17	1°♈37'33			13934 Nov 11 08:43	0°♉	
greatest brilliancy	13932 May 27 15:06	22°♈24'33 -4.8m					
retrograde	13932 Jun 06 01:19	24°♈05'09		superior conj	13934 Nov 22 16:12	14°♉03'40	1°18'36
evening set	13932 Jun 24 06:38	17°♈48'04		minimum elong	13934 Nov 22 08:30	13°♉39'45	1°19'26
inferior conj	13932 Jun 26 19:26	16°♈14'47 9°07'34		max. Earth dist.	13934 Nov 24 20:01	16°♉44'37	1.72556 AU
minimum elong	13932 Jun 26 22:05	16°♈10'41 9°06'25			13934 Dec 05 12:22	0°♊	
min. Earth dist.	13932 Jun 27 06:49	15°♈57'11 0.27479 AU		evening rise	13934 Dec 29 19:38	0°♊03'52	
morning rise	13932 Jun 29 13:27	14°♈33'16			13934 Dec 29 18:23	0°♋	
direct	13932 Jul 17 15:27	8°♈16'52			13935 Jan 23 03:53	0°♋	
greatest brilliancy	13932 Jul 27 18:24	10°♈12'20 -4.9m		desc. node	13935 Feb 01 16:00	11°♋38'07	
desc. node	13932 Aug 17 03:42	22°♈43'05			13935 Feb 16 17:17	0°♌	
	13932 Aug 25 15:03	0°♍			13935 Mar 13 10:16	0°♌	
morning max el	13932 Sep 06 02:58	11°♍00'39 46°54'15			13935 Apr 07 07:15	0°♍	
	13932 Sep 24 04:20	0°♎			13935 May 02 11:20	0°♎	
	13932 Oct 20 18:42	0°♏		asc. node	13935 May 25 10:16	26°♎43'37	
	13932 Nov 15 08:38	0°♐			13935 May 28 07:07	0°♏	
asc. node	13932 Dec 08 02:58	27°♐13'09			13935 Jun 24 17:47	0°♐	
	13932 Dec 10 10:21	0°♑		evening max el	13935 Jun 30 11:29	5°♐50'21	46°43'02
	13933 Jan 04 04:23	0°♒			13935 Jul 28 13:28	0°♑	
	13933 Jan 28 17:24	0°♓		greatest brilliancy	13935 Aug 09 07:26	6°♑11'16	-4.9m
	13933 Feb 22 03:24	0°♈		retrograde	13935 Aug 19 16:26	8°♑11'42	
morning set	13933 Mar 06 03:36	14°♈47'15		evening set	13935 Sep 03 07:57	3°♑57'33	
	13933 Mar 18 11:34	0°♉		inferior conj	13935 Sep 09 09:11	0°♑24'52	1°20'26
desc. node	13933 Mar 29 19:08	13°♉58'33		minimum elong	13935 Sep 09 12:19	0°♑20'06	1°19'19
max. Earth dist.	13933 Apr 10 23:55	29°♉04'16 1.72660 AU		min. Earth dist.	13935 Sep 09 07:11	0°♑27'54	0.26987 AU
	13933 Apr 11 17:55	0°♊			13935 Sep 10 01:31	30°♒♐	
				desc. node	13935 Sep 14 12:47	27°♒22'37	
superior conj	13933 Apr 13 11:18	2°♊08'12 -0°34'40		morning rise	13935 Sep 15 17:02	26°♒44'26	
minimum elong	13933 Apr 13 03:30	1°♊44'01 0°34'45		direct	13935 Sep 30 03:38	22°♒40'38	
	13933 May 05 22:05	0°♋		greatest brilliancy	13935 Oct 09 23:54	24°♒28'48	-4.8m
evening rise	13933 May 22 07:28	20°♋24'24			13935 Oct 21 01:34	0°♌	
	13933 May 30 00:12	0°♍		morning max el	13935 Nov 18 18:36	23°♌52'17	46°15'15
	13933 Jun 23 01:25	0°♎			13935 Nov 24 22:47	0°♍	
	13933 Jul 17 03:41	0°♏			13935 Dec 22 23:10	0°♎	
asc. node	13933 Jul 20 08:47	3°♏59'23		asc. node	13936 Jan 05 14:29	15°♏26'34	
	13933 Aug 10 09:19	0°♐			13936 Jan 18 04:19	0°♏	
	13933 Sep 03 21:28	0°♑			13936 Feb 12 12:56	0°♐	
	13933 Sep 28 21:41	0°♒			13936 Mar 08 10:03	0°♑	
	13933 Oct 24 21:58	0°♓		desc. node	13936 Apr 02 00:07	0°♒	
desc. node	13933 Nov 09 05:28	16°♓41'25			13936 Apr 26 09:23	0°♓00'51	
	13933 Nov 22 06:20	0°♈			13936 Apr 26 09:06	0°♓	
evening max el	13933 Nov 23 03:15	0°♈51'03 46°07'02		morning set	13936 May 16 23:24	25°♓31'42	
greatest brilliancy	13934 Jan 01 10:16	29°♈39'26 -4.8m			13936 May 20 13:43	0°♔	
	13934 Jan 02 10:58	0°♉			13936 Jun 13 14:43	0°♔	
retrograde	13934 Jan 11 10:09	1°♉28'48		max. Earth dist.	13936 Jun 23 17:41	12°♔40'18	1.71615 AU
	13934 Jan 20 00:21	30°♒♊					
evening set	13934 Jan 28 06:25	26°♒03'22		superior conj	13936 Jun 25 20:08	15°♔18'17	-1°26'54

minimum elong	13936 Jun 25 22:51	15°☿26'47	1°27'55	greatest brilliancy	13938 Dec 21 19:19	6°♁11'20	-4.8m
	13936 Jul 07 13:28	0°♊			13939 Jan 25 04:00	0°♋	
	13936 Jul 31 11:39	0°♌		morning max el	13939 Jan 30 01:06	4°♌37'04	45°43'52
evening rise	13936 Aug 05 01:01	5°♌42'39		asc. node	13939 Feb 02 00:43	7°♌31'49	
asc. node	13936 Aug 16 22:50	20°♌37'18			13939 Feb 23 13:28	0°♍	
	13936 Aug 24 10:54	0°♎			13939 Mar 22 03:36	0°♎	
	13936 Sep 17 12:42	0°♏			13939 Apr 16 14:40	0°♏	
	13936 Oct 11 19:07	0°♐			13939 May 11 11:13	0°♐	
	13936 Nov 05 09:28	0°♑		desc. node	13939 May 24 22:53	16°♑29'08	
	13936 Nov 30 13:09	0°♒			13939 Jun 04 22:23	0°♒	
desc. node	13936 Dec 06 16:12	7°♒10'11			13939 Jun 29 02:59	0°♓	
	13936 Dec 26 14:56	0°♈			13939 Jul 23 03:28	0°♊	
	13937 Jan 23 10:57	0°♏		morning set	13939 Jul 31 19:12	10°♊50'24	
evening max el	13937 Feb 02 06:21	9°♏45'15	45°56'15		13939 Aug 16 02:07	0°♌	
	13937 Feb 26 01:04	0°♍					
greatest brilliancy	13937 Mar 13 06:56	8°♍17'27	-4.8m	superior conj	13939 Sep 09 11:08	0°♌32'34	-0°12'26
retrograde	13937 Mar 23 06:41	10°♍07'07		minimum elong	13939 Sep 09 14:15	0°♌42'18	0°12'22
asc. node	13937 Mar 29 16:57	9°♍17'31		behind sun begin	13939 Sep 08 21:55	29°♌51'10	
evening set	13937 Apr 07 04:08	5°♍47'26		behind sun end	13939 Sep 10 06:35	1°♌33'26	
inferior conj	13937 Apr 13 08:48	2°♍04'26	3°35'06		13939 Sep 09 00:44	0°♌	
minimum elong	13937 Apr 13 01:13	2°♍16'19	3°32'26	max. Earth dist.	13939 Sep 10 18:24	2°♌10'25	1.71646 AU
min. Earth dist.	13937 Apr 13 09:43	2°♍02'59	0.28061 AU	asc. node	13939 Sep 14 13:23	6°♌55'07	
	13937 Apr 16 17:03	30°♎♏			13939 Oct 03 00:27	0°♏	
morning rise	13937 Apr 18 22:00	28°♏42'18		evening rise	13939 Oct 18 07:57	19°♏05'56	
direct	13937 May 04 12:09	23°♏57'17			13939 Oct 27 02:12	0°♐	
greatest brilliancy	13937 May 14 20:03	25°♏56'25	-4.8m		13939 Nov 20 07:30	0°♑	
	13937 May 23 05:01	0°♍			13939 Dec 14 18:28	0°♒	
morning max el	13937 Jun 23 14:49	26°♍09'40	46°43'24	desc. node	13940 Jan 04 04:28	24°♒44'17	
	13937 Jun 27 09:52	0°♎			13940 Jan 08 13:30	0°♈	
desc. node	13937 Jul 19 20:09	24°♎13'02			13940 Feb 02 18:53	0°♏	
	13937 Jul 24 22:41	0°♓			13940 Feb 28 14:28	0°♍	
	13937 Aug 19 15:18	0°♊			13940 Mar 26 11:47	0°♎	
	13937 Sep 13 13:52	0°♌		evening max el	13940 Apr 14 21:00	20°♎05'51	46°16'40
	13937 Oct 08 04:24	0°♌			13940 Apr 25 08:46	0°♓	
	13937 Nov 01 15:05	0°♏		asc. node	13940 Apr 26 02:13	0°♓39'03	
asc. node	13937 Nov 09 16:00	9°♏53'25		greatest brilliancy	13940 May 25 03:27	20°♓02'29	-4.8m
	13937 Nov 25 23:29	0°♐		retrograde	13940 Jun 03 15:10	21°♓44'21	
	13937 Dec 20 06:28	0°♑		evening set	13940 Jun 21 20:26	15°♓26'04	
morning set	13937 Dec 25 00:00	5°♑50'52		inferior conj	13940 Jun 24 09:01	13°♓53'09	9°09'34
	13938 Jan 13 13:04	0°♒		minimum elong	13940 Jun 24 10:45	13°♓50'29	9°08'28
				min. Earth dist.	13940 Jun 24 19:29	13°♓36'58	0.27510 AU
superior conj	13938 Jan 30 19:26	21°♒19'19	1°03'29	morning rise	13940 Jun 27 00:59	12°♓14'52	
minimum elong	13938 Jan 31 05:17	21°♒49'41	1°03'53	direct	13940 Jul 15 05:36	5°♓54'39	
max. Earth dist.	13938 Jan 31 16:29	22°♒24'14	1.73136 AU	greatest brilliancy	13940 Jul 25 07:44	7°♓49'57	-4.9m
	13938 Feb 06 20:17	0°♈		desc. node	13940 Aug 16 05:44	21°♓34'56	
desc. node	13938 Mar 01 06:19	27°♈37'59			13940 Aug 25 18:31	0°♊	
	13938 Mar 03 04:27	0°♏		morning max el	13940 Sep 03 18:00	8°♊42'09	46°54'48
evening rise	13938 Mar 09 13:59	7°♏52'42			13940 Sep 23 21:38	0°♌	
	13938 Mar 27 13:04	0°♍			13940 Oct 20 08:51	0°♌	
	13938 Apr 20 21:31	0°♎			13940 Nov 14 21:14	0°♏	
	13938 May 15 06:12	0°♓		asc. node	13940 Dec 07 04:56	26°♏43'42	
	13938 Jun 08 17:07	0°♊			13940 Dec 09 22:02	0°♐	
asc. node	13938 Jun 21 21:49	16°♊04'47			13941 Jan 03 15:28	0°♑	
	13938 Jul 03 10:06	0°♌			13941 Jan 28 04:07	0°♒	
	13938 Jul 28 15:55	0°♎			13941 Feb 21 13:56	0°♈	
	13938 Aug 24 01:25	0°♏		morning set	13941 Mar 03 19:49	12°♈37'03	
evening max el	13938 Sep 10 12:36	18°♏22'36	46°36'07		13941 Mar 17 22:01	0°♏	
	13938 Sep 22 17:43	0°♐		desc. node	13941 Mar 28 20:50	13°♏31'36	
desc. node	13938 Oct 11 21:48	14°♐33'42		max. Earth dist.	13941 Apr 08 18:16	27°♏00'05	1.72692 AU
greatest brilliancy	13938 Oct 19 20:37	18°♐28'13	-4.8m				
retrograde	13938 Oct 30 16:28	20°♐38'15		superior conj	13941 Apr 11 01:40	29°♏51'35	-0°31'20
evening set	13938 Nov 16 20:13	15°♐02'34		minimum elong	13941 Apr 10 18:31	29°♏29'27	0°31'25
min. Earth dist.	13938 Nov 20 06:05	12°♐58'04	0.28292 AU		13941 Apr 11 04:23	0°♍	
inferior conj	13938 Nov 21 00:33	12°♐29'23	-8°04'18		13941 May 05 08:36	0°♎	
minimum elong	13938 Nov 20 16:16	12°♐42'15	8°02'15	evening rise	13941 May 19 20:59	18°♎04'02	
morning rise	13938 Nov 24 12:32	10°♐20'45			13941 May 29 10:49	0°♓	
direct	13938 Dec 12 03:46	4°♐30'17			13941 Jun 22 12:11	0°♊	

	13941 Jul 16 14:41	0°♍			13944 Jan 17 17:04	0°♊		
asc. node	13941 Jul 19 10:44	3°♍31'11			13944 Feb 12 00:38	0°♊		
	13941 Aug 09 20:42	0°♌			13944 Mar 07 21:11	0°♋		
	13941 Sep 03 09:26	0°♍			13944 Apr 01 10:55	0°♌		
	13941 Sep 28 10:44	0°♎		desc. node	13944 Apr 25 11:12	29°♌33'45		
	13941 Oct 24 13:17	0°♏			13944 Apr 25 19:42	0°♍		
desc. node	13941 Nov 08 07:23	15°♏59'22		morning set	13944 May 14 11:51	23°♍08'29		
evening max el	13941 Nov 20 19:20	28°♏40'31	46°07'54		13944 May 20 00:14	0°♎		
	13941 Nov 22 04:09	0°♐			13944 Jun 13 01:15	0°♏		
greatest brilliancy	13941 Dec 30 00:59	27°♐27'59	-4.8m	max. Earth dist.	13944 Jun 20 23:14	9°♏54'27	1.71641 AU	
retrograde	13942 Jan 09 02:12	29°♐18'08						
evening set	13942 Jan 26 01:07	23°♐48'20		superior conj	13944 Jun 23 08:16	12°♏53'00	-1°27'14	
inferior conj	13942 Jan 30 12:06	21°♐04'05	-6°31'34	minimum elong	13944 Jun 23 09:56	12°♏58'14	1°28'18	
minimum elong	13942 Jan 30 22:26	20°♐47'54	6°28'42		13944 Jul 07 00:02	0°♑		
min. Earth dist.	13942 Jan 30 19:52	20°♐51'54	0.28773 AU		13944 Jul 30 22:17	0°♒		
morning rise	13942 Feb 04 19:43	17°♐50'10		evening rise	13944 Aug 02 12:35	3°♒15'11		
direct	13942 Feb 20 20:58	12°♐51'14		asc. node	13944 Aug 16 00:37	20°♒09'29		
asc. node	13942 Mar 01 09:53	14°♐13'10			13944 Aug 23 21:36	0°♓		
greatest brilliancy	13942 Mar 03 15:30	14°♐59'08	-4.8m		13944 Sep 16 23:33	0°♑		
	13942 Mar 27 01:52	0°♋			13944 Oct 11 06:13	0°♎		
morning max el	13942 Apr 11 06:10	13°♋54'35	45°59'17		13944 Nov 04 21:04	0°♏		
	13942 Apr 26 21:27	0°♌			13944 Nov 30 01:41	0°♐		
	13942 May 23 18:11	0°♍		desc. node	13944 Dec 05 18:11	6°♐38'33		
	13942 Jun 18 05:21	0°♎			13944 Dec 26 05:23	0°♋		
desc. node	13942 Jun 21 11:14	3°♎53'40			13945 Jan 23 06:13	0°♌		
	13942 Jul 12 23:25	0°♏		evening max el	13945 Jan 30 20:18	7°♌29'38	45°55'57	
	13942 Aug 06 08:05	0°♑			13945 Feb 26 23:48	0°♍		
	13942 Aug 30 12:09	0°♒		greatest brilliancy	13945 Mar 10 22:08	6°♍03'12	-4.8m	
	13942 Sep 23 14:32	0°♓		retrograde	13945 Mar 20 20:52	7°♍52'21		
asc. node	13942 Oct 12 03:51	23°♓06'40		asc. node	13945 Mar 28 18:56	6°♍36'59		
morning set	13942 Oct 13 02:49	24°♓18'08		evening set	13945 Apr 04 17:55	3°♍33'47		
	13942 Oct 17 16:38	0°♑		inferior conj	13945 Apr 10 23:47	29°♌49'25	3°14'32	
	13942 Nov 10 19:06	0°♒		minimum elong	13945 Apr 10 16:50	0°♍00'20	3°12'04	
					13945 Apr 10 17:03	30°♌♌		
superior conj	13942 Nov 20 08:09	11°♒51'53	1°17'08	min. Earth dist.	13945 Apr 11 01:27	29°♌46'49	0.28080 AU	
minimum elong	13942 Nov 19 23:57	11°♒26'23	1°17'55	morning rise	13945 Apr 16 15:22	26°♌23'48		
max. Earth dist.	13942 Nov 22 14:27	14°♒40'33	1.72528 AU	direct	13945 May 02 02:42	21°♌41'51		
	13942 Dec 04 22:44	0°♊		greatest brilliancy	13945 May 12 12:42	23°♌42'28	-4.8m	
evening rise	13942 Dec 27 11:45	27°♊53'20			13945 May 24 10:40	0°♍		
	13942 Dec 29 04:48	0°♋		morning max el	13945 Jun 21 04:22	23°♍49'14	46°42'09	
	13943 Jan 22 14:28	0°♌			13945 Jun 27 05:59	0°♎		
desc. node	13943 Jan 31 17:49	11°♌11'06		desc. node	13945 Jul 18 22:09	23°♎34'15		
	13943 Feb 16 04:07	0°♍			13945 Jul 24 13:49	0°♏		
	13943 Mar 12 21:33	0°♎			13945 Aug 19 04:28	0°♑		
	13943 Apr 06 19:14	0°♏			13945 Sep 13 02:00	0°♒		
	13943 May 02 00:28	0°♐			13945 Oct 07 15:53	0°♓		
asc. node	13943 May 24 12:16	26°♐06'32			13945 Nov 01 02:07	0°♑		
	13943 May 27 22:28	0°♑		asc. node	13945 Nov 08 17:58	9°♑25'51		
	13943 Jun 24 14:34	0°♒			13945 Nov 25 10:13	0°♓		
evening max el	13943 Jun 28 01:39	3°♒29'50	46°42'31		13945 Dec 19 16:59	0°♑		
	13943 Jul 29 22:33	0°♓		morning set	13945 Dec 22 16:40	3°♓41'34		
greatest brilliancy	13943 Aug 06 22:15	3°♓49'48	-4.9m		13946 Jan 12 23:29	0°♑		
retrograde	13943 Aug 17 05:30	5°♓48'22						
evening set	13943 Aug 31 22:44	1°♓32'44		superior conj	13946 Jan 28 12:11	19°♓10'47	1°05'41	
	13943 Sep 03 16:06	30°♌♌		minimum elong	13946 Jan 28 21:57	19°♓40'53	1°06'08	
inferior conj	13943 Sep 06 22:06	28°♌02'16	1°44'21	max. Earth dist.	13946 Jan 29 09:49	20°♓17'31	1.73135 AU	
minimum elong	13943 Sep 07 02:08	27°♌56'07	1°42'54		13946 Feb 06 06:42	0°♋		
min. Earth dist.	13943 Sep 06 21:26	28°♌03'18	0.26969 AU	desc. node	13946 Feb 28 08:03	27°♋10'55		
morning rise	13943 Sep 13 05:52	24°♌21'36			13946 Mar 02 14:59	0°♌		
desc. node	13943 Sep 13 14:38	24°♌10'09		evening rise	13946 Mar 07 05:50	5°♌41'11		
direct	13943 Sep 27 16:35	20°♌18'16			13946 Mar 26 23:47	0°♍		
greatest brilliancy	13943 Oct 07 13:09	22°♌06'31	-4.8m		13946 Apr 20 08:30	0°♎		
	13943 Oct 22 04:14	0°♏			13946 May 14 17:33	0°♏		
morning max el	13943 Nov 16 07:27	21°♏31'32	46°16'44		13946 Jun 08 04:58	0°♑		
	13943 Nov 24 18:50	0°♑		asc. node	13946 Jun 20 23:46	15°♑33'29		
	13943 Dec 22 14:00	0°♒			13946 Jul 02 22:48	0°♓		
asc. node	13944 Jan 04 16:31	14°♒53'19			13946 Jul 28 06:09	0°♑		

	13946 Aug 23 18:59	0°♌		morning set	13949 Mar 01 12:19	10°♋26'56	
evening max el	13946 Sep 08 02:24	16°♌01'55	46°36'57		13949 Mar 17 08:44	0°♍	
	13946 Sep 22 23:10	0°♌		desc. node	13949 Mar 27 22:42	13°♍04'16	
desc. node	13946 Oct 10 23:50	13°♌07'10		max. Earth dist.	13949 Apr 06 12:07	24°♍53'34	1.72723 AU
greatest brilliancy	13946 Oct 17 11:03	16°♌11'07	-4.8m				
retrograde	13946 Oct 28 07:35	18°♌22'21		superior conj	13949 Apr 08 16:15	27°♍34'53	-0°27'58
evening set	13946 Nov 14 07:15	12°♌52'12		minimum elong	13949 Apr 08 09:48	27°♍14'56	0°28'04
min. Earth dist.	13946 Nov 17 20:18	10°♌43'27	0.28242 AU		13949 Apr 10 15:07	0°♎	
inferior conj	13946 Nov 18 15:17	10°♌14'02	-7°54'56		13949 May 04 19:26	0°♏	
minimum elong	13946 Nov 18 06:27	10°♌27'43	7°52'44	evening rise	13949 May 17 10:30	15°♏42'44	
morning rise	13946 Nov 22 05:53	8°♌01'49			13949 May 28 21:47	0°♐	
direct	13946 Dec 09 17:42	2°♌15'27			13949 Jun 21 23:21	0°♑	
greatest brilliancy	13946 Dec 19 09:28	3°♌56'48	-4.8m		13949 Jul 16 02:08	0°♒	
	13947 Jan 25 03:57	0°♎		asc. node	13949 Jul 18 12:28	3°♒00'58	
morning max el	13947 Jan 27 15:43	2°♎22'46	45°44'21		13949 Aug 09 08:32	0°♓	
asc. node	13947 Feb 01 02:36	6°♎44'47			13949 Sep 02 21:52	0°♌	
	13947 Feb 23 05:22	0°♎			13949 Sep 28 00:17	0°♌	
	13947 Mar 21 16:53	0°♋			13949 Oct 24 05:14	0°♎	
	13947 Apr 16 02:48	0°♍		desc. node	13949 Nov 07 09:25	15°♎16'00	
	13947 May 10 22:46	0°♎		evening max el	13949 Nov 18 11:08	26°♎28'08	46°08'46
desc. node	13947 May 24 00:51	16°♎00'25			13949 Nov 22 03:21	0°♎	
	13947 Jun 04 09:35	0°♏		greatest brilliancy	13949 Dec 27 16:15	25°♎16'05	-4.8m
	13947 Jun 28 13:59	0°♐		retrograde	13950 Jan 06 17:53	27°♎06'13	
	13947 Jul 22 14:18	0°♑		evening set	13950 Jan 23 19:50	21°♎32'16	
morning set	13947 Jul 29 07:14	8°♑23'50		inferior conj	13950 Jan 28 03:52	18°♎52'02	-6°45'16
	13947 Aug 15 12:52	0°♒		minimum elong	13950 Jan 28 14:07	18°♎35'58	6°42'29
				min. Earth dist.	13950 Jan 28 10:55	18°♎40'59	0.28785 AU
superior conj	13947 Sep 06 23:44	28°♒08'08	-0°16'09	morning rise	13950 Feb 02 08:25	15°♎42'23	
minimum elong	13947 Sep 07 03:46	28°♒20'47	0°16'06	direct	13950 Feb 18 13:16	10°♎39'33	
behind sun begin	13947 Sep 07 01:04	28°♒12'18		asc. node	13950 Feb 28 11:50	12°♎29'13	
behind sun end	13947 Sep 07 06:29	28°♒29'16		greatest brilliancy	13950 Mar 01 06:07	12°♎45'51	-4.8m
max. Earth dist.	13947 Sep 08 05:24	29°♒41'04	1.71628 AU		13950 Mar 27 07:47	0°♋	
	13947 Sep 08 11:27	0°♓		morning max el	13950 Apr 08 21:12	11°♋39'57	45°58'01
asc. node	13947 Sep 13 15:07	6°♓27'01			13950 Apr 26 14:53	0°♍	
	13947 Oct 02 11:11	0°♌			13950 May 23 08:19	0°♎	
evening rise	13947 Oct 15 22:43	16°♌49'00			13950 Jun 17 18:04	0°♏	
	13947 Oct 26 13:00	0°♌		desc. node	13950 Jun 20 13:07	3°♏21'25	
	13947 Nov 19 18:24	0°♎			13950 Jul 12 11:25	0°♐	
	13947 Dec 14 05:39	0°♎			13950 Aug 05 19:41	0°♑	
desc. node	13948 Jan 03 06:20	24°♎15'08			13950 Aug 29 23:28	0°♒	
	13948 Jan 08 01:10	0°♋			13950 Sep 23 01:38	0°♓	
	13948 Feb 02 07:25	0°♍		morning set	13950 Oct 10 16:54	21°♓58'26	
	13948 Feb 28 04:35	0°♎		asc. node	13950 Oct 11 05:48	22°♓38'38	
	13948 Mar 26 05:21	0°♏			13950 Oct 17 03:33	0°♌	
evening max el	13948 Apr 12 11:31	17°♏47'48	46°15'36		13950 Nov 10 05:54	0°♌	
asc. node	13948 Apr 25 04:14	29°♏38'23					
	13948 Apr 25 14:09	0°♐		superior conj	13950 Nov 17 23:51	9°♌37'58	1°15'31
greatest brilliancy	13948 May 22 15:25	17°♐38'45	-4.8m	minimum elong	13950 Nov 17 15:10	9°♌11'02	1°16'16
retrograde	13948 Jun 01 04:54	19°♐21'45		max. Earth dist.	13950 Nov 20 07:44	12°♌31'36	1.72493 AU
evening set	13948 Jun 19 09:27	13°♐03'21			13950 Dec 04 09:31	0°♎	
inferior conj	13948 Jun 21 22:22	11°♐29'49	9°10'36	evening rise	13950 Dec 25 03:45	25°♎41'10	
minimum elong	13948 Jun 21 23:08	11°♐28'38	9°09'33		13950 Dec 28 15:39	0°♎	
min. Earth dist.	13948 Jun 22 07:42	11°♐15'23	0.27538 AU		13951 Jan 22 01:30	0°♋	
morning rise	13948 Jun 24 12:46	9°♐53'55		desc. node	13951 Jan 30 19:35	10°♋42'33	
direct	13948 Jul 12 19:49	3°♐31'00			13951 Feb 15 15:26	0°♍	
greatest brilliancy	13948 Jul 22 20:20	5°♐25'18	-4.9m		13951 Mar 12 09:18	0°♎	
desc. node	13948 Aug 15 07:37	20°♐27'09			13951 Apr 06 07:41	0°♏	
	13948 Aug 25 20:52	0°♑			13951 May 01 14:08	0°♐	
morning max el	13948 Sep 01 08:48	6°♑22'04	46°55'23	asc. node	13951 May 23 14:16	25°♐27'55	
	13948 Sep 23 14:53	0°♒			13951 May 27 14:28	0°♑	
	13948 Oct 19 23:04	0°♓			13951 Jun 24 12:40	0°♒	
	13948 Nov 14 09:58	0°♌		evening max el	13951 Jun 25 14:33	1°♒04'53	46°41'49
asc. node	13948 Dec 06 06:49	26°♌13'24			13951 Aug 01 02:01	0°♓	
	13948 Dec 09 09:53	0°♌		greatest brilliancy	13951 Aug 04 13:15	1°♓26'42	-4.9m
	13949 Jan 03 02:47	0°♎		retrograde	13951 Aug 14 17:58	3°♓23'04	
	13949 Jan 27 15:05	0°♎			13951 Aug 27 19:26	30°♒♒	
	13949 Feb 21 00:43	0°♋		evening set	13951 Aug 29 13:29	29°♒05'26	

inferior conj	13951 Sep 04 10:54	25° $\mathbb{M}$ 37'39	2°08'11	max. Earth dist.	13954 Jan 27 04:24	18° $\approx$ 13'42	1.73129 AU
minimum elong	13951 Sep 04 15:48	25° $\mathbb{M}$ 30'09	2°06'26		13954 Feb 05 17:24	0° $\mathbb{H}$	
min. Earth dist.	13951 Sep 04 11:51	25° $\mathbb{M}$ 36'11	0.26958 AU	desc. node	13954 Feb 27 09:55	26° $\mathbb{H}$ 43'28	
morning rise	13951 Sep 10 18:20	21° $\mathbb{M}$ 56'57			13954 Mar 02 01:46	0° $\mathbb{Y}$	
desc. node	13951 Sep 12 16:42	20° $\mathbb{M}$ 58'38		evening rise	13954 Mar 04 21:42	3° $\mathbb{Y}$ 29'02	
direct	13951 Sep 25 04:51	17° $\mathbb{M}$ 53'32			13954 Mar 26 10:46	0° $\mathbb{B}$	
greatest brilliancy	13951 Oct 05 02:55	19° $\mathbb{M}$ 42'41	-4.8m		13954 Apr 19 19:46	0° $\mathbb{I}$	
	13951 Oct 23 00:41	0° $\underline{\mathbb{A}}$			13954 May 14 05:10	0° $\mathbb{E}$	
morning max el	13951 Nov 13 19:47	19° $\underline{\mathbb{A}}$ 07'32	46°18'23		13954 Jun 07 17:07	0° $\mathbb{O}$	
	13951 Nov 24 14:52	0° $\mathbb{M}$		asc. node	13954 Jun 20 01:35	15° $\mathbb{O}$ 00'56	
	13951 Dec 22 05:09	0° $\mathbb{J}$			13954 Jul 02 11:48	0° $\mathbb{M}$	
asc. node	13952 Jan 03 18:23	14° $\mathbb{J}$ 18'30			13954 Jul 27 20:43	0° $\underline{\mathbb{A}}$	
	13952 Jan 17 06:11	0° $\mathbb{B}$			13954 Aug 23 13:06	0° $\mathbb{M}$	
	13952 Feb 11 12:43	0° $\approx$		evening max el	13954 Sep 05 17:02	13° $\mathbb{M}$ 43'09	46°37'49
	13952 Mar 07 08:41	0° $\mathbb{H}$			13954 Sep 23 06:58	0° $\mathbb{J}$	
	13952 Mar 31 22:06	0° $\mathbb{Y}$		desc. node	13954 Oct 10 01:50	11° $\mathbb{J}$ 37'30	
desc. node	13952 Apr 24 13:08	29° $\mathbb{Y}$ 05'43		greatest brilliancy	13954 Oct 15 01:06	13° $\mathbb{J}$ 53'23	-4.8m
	13952 Apr 25 06:42	0° $\mathbb{B}$		retrograde	13954 Oct 25 23:15	16° $\mathbb{J}$ 06'15	
morning set	13952 May 12 00:36	20° $\mathbb{B}$ 45'00		evening set	13954 Nov 11 18:23	10° $\mathbb{J}$ 41'32	
	13952 May 19 11:10	0° $\mathbb{I}$		min. Earth dist.	13954 Nov 15 10:18	8° $\mathbb{J}$ 28'52	0.28194 AU
	13952 Jun 12 12:09	0° $\mathbb{E}$		inferior conj	13954 Nov 16 06:04	7° $\mathbb{J}$ 58'19	-7°44'50
max. Earth dist.	13952 Jun 18 07:17	7° $\mathbb{E}$ 15'17	1.71668 AU	minimum elong	13954 Nov 15 20:46	8° $\mathbb{J}$ 12'42	7°42'28
				morning rise	13954 Nov 19 23:26	5° $\mathbb{J}$ 42'25	
superior conj	13952 Jun 20 20:45	10° $\mathbb{E}$ 27'42	-1°27'25	direct	13954 Dec 07 08:13	0° $\mathbb{J}$ 00'22	
minimum elong	13952 Jun 20 21:24	10° $\mathbb{E}$ 29'44	1°28'29	greatest brilliancy	13954 Dec 16 23:14	1° $\mathbb{J}$ 41'29	-4.8m
	13952 Jul 06 10:57	0° $\mathbb{O}$			13955 Jan 25 03:00	0° $\mathbb{B}$	
	13952 Jul 30 09:15	0° $\mathbb{M}$		morning max el	13955 Jan 25 07:10	0° $\mathbb{B}$ 10'03	45°44'46
evening rise	13952 Jul 31 00:22	0° $\mathbb{M}$ 47'20		asc. node	13955 Jan 31 04:34	5° $\mathbb{B}$ 58'08	
asc. node	13952 Aug 15 02:26	19° $\mathbb{M}$ 40'40			13955 Feb 22 21:09	0° $\approx$	
	13952 Aug 23 08:41	0° $\underline{\mathbb{A}}$			13955 Mar 21 06:12	0° $\mathbb{H}$	
	13952 Sep 16 10:49	0° $\mathbb{M}$			13955 Apr 15 14:58	0° $\mathbb{Y}$	
	13952 Oct 10 17:47	0° $\mathbb{J}$			13955 May 10 10:20	0° $\mathbb{B}$	
	13952 Nov 04 09:11	0° $\mathbb{B}$		desc. node	13955 May 23 02:37	15° $\mathbb{B}$ 30'58	
	13952 Nov 29 14:46	0° $\approx$			13955 Jun 03 20:50	0° $\mathbb{I}$	
desc. node	13952 Dec 04 20:04	6° $\approx$ 05'06			13955 Jun 28 01:02	0° $\mathbb{E}$	
	13952 Dec 25 20:28	0° $\mathbb{H}$			13955 Jul 22 01:14	0° $\mathbb{O}$	
	13953 Jan 23 02:33	0° $\mathbb{Y}$		morning set	13955 Jul 26 19:25	5° $\mathbb{O}$ 57'30	
evening max el	13953 Jan 28 10:10	5° $\mathbb{Y}$ 12'53	45°55'52		13955 Aug 14 23:42	0° $\mathbb{M}$	
	13953 Feb 28 08:14	0° $\mathbb{B}$					
greatest brilliancy	13953 Mar 08 12:58	3° $\mathbb{B}$ 47'42	-4.8m	superior conj	13955 Sep 04 12:29	25° $\mathbb{M}$ 43'59	-0°19'51
retrograde	13953 Mar 18 11:31	5° $\mathbb{B}$ 37'02		minimum elong	13955 Sep 04 17:25	25° $\mathbb{M}$ 59'29	0°19'48
asc. node	13953 Mar 27 21:02	3° $\mathbb{B}$ 50'48		max. Earth dist.	13955 Sep 05 18:22	27° $\mathbb{M}$ 17'37	1.71605 AU
evening set	13953 Apr 02 07:58	1° $\mathbb{B}$ 18'59			13955 Sep 07 22:14	0° $\underline{\mathbb{A}}$	
	13953 Apr 04 15:29	30° $\mathbb{K}$ $\mathbb{Y}$		asc. node	13955 Sep 12 17:04	5° $\underline{\mathbb{A}}$ 59'28	
inferior conj	13953 Apr 08 14:51	27° $\mathbb{Y}$ 33'35	2°53'47		13955 Oct 01 21:55	0° $\mathbb{M}$	
minimum elong	13953 Apr 08 08:33	27° $\mathbb{Y}$ 43'27	2°51'30	evening rise	13955 Oct 13 13:43	14° $\mathbb{M}$ 32'47	
min. Earth dist.	13953 Apr 08 17:06	27° $\mathbb{Y}$ 30'03	0.28102 AU		13955 Oct 25 23:45	0° $\mathbb{J}$	
morning rise	13953 Apr 14 08:42	24° $\mathbb{Y}$ 04'53			13955 Nov 19 05:18	0° $\mathbb{B}$	
direct	13953 Apr 29 17:32	19° $\mathbb{Y}$ 25'27			13955 Dec 13 16:50	0° $\approx$	
greatest brilliancy	13953 May 10 05:21	21° $\mathbb{Y}$ 27'43	-4.8m	desc. node	13956 Jan 02 08:07	23° $\approx$ 45'38	
	13953 May 25 08:33	0° $\mathbb{B}$			13956 Jan 07 12:53	0° $\mathbb{H}$	
morning max el	13953 Jun 18 19:01	21° $\mathbb{B}$ 30'43	46°41'02		13956 Feb 01 20:03	0° $\mathbb{Y}$	
	13953 Jun 27 01:50	0° $\mathbb{I}$			13956 Feb 27 18:53	0° $\mathbb{B}$	
desc. node	13953 Jul 17 23:59	22° $\mathbb{I}$ 54'35			13956 Mar 25 23:19	0° $\mathbb{I}$	
	13953 Jul 24 05:01	0° $\mathbb{E}$		evening max el	13956 Apr 10 02:24	15° $\mathbb{I}$ 30'50	46°14'33
	13953 Aug 18 17:47	0° $\mathbb{O}$		asc. node	13956 Apr 24 06:13	28° $\mathbb{I}$ 36'24	
	13953 Sep 12 14:19	0° $\mathbb{M}$			13956 Apr 25 21:40	0° $\mathbb{E}$	
	13953 Oct 07 03:36	0° $\underline{\mathbb{A}}$		greatest brilliancy	13956 May 20 03:57	15° $\mathbb{E}$ 16'16	-4.8m
	13953 Oct 31 13:26	0° $\mathbb{M}$		retrograde	13956 May 29 18:35	16° $\mathbb{E}$ 59'38	
asc. node	13953 Nov 07 19:48	8° $\mathbb{M}$ 56'58		evening set	13956 Jun 16 22:06	10° $\mathbb{E}$ 42'20	
	13953 Nov 24 21:15	0° $\mathbb{J}$		inferior conj	13956 Jun 19 11:53	9° $\mathbb{E}$ 07'15	9°10'45
	13953 Dec 19 03:50	0° $\mathbb{B}$		minimum elong	13956 Jun 19 11:41	9° $\mathbb{E}$ 07'33	9°09'42
morning set	13953 Dec 20 09:08	1° $\mathbb{B}$ 30'36		min. Earth dist.	13956 Jun 19 20:12	8° $\mathbb{E}$ 54'21	0.27565 AU
	13954 Jan 12 10:13	0° $\approx$		morning rise	13956 Jun 22 01:14	7° $\mathbb{E}$ 32'46	
				direct	13956 Jul 10 10:04	1° $\mathbb{E}$ 08'13	
superior conj	13954 Jan 26 04:48	17° $\approx$ 00'53	1°07'48	greatest brilliancy	13956 Jul 20 09:10	3° $\mathbb{E}$ 01'14	-4.9m
minimum elong	13954 Jan 26 14:26	17° $\approx$ 30'35	1°08'18	desc. node	13956 Aug 14 09:41	19° $\mathbb{E}$ 21'52	

	13956 Aug 25 21:46	0°♌			13959 May 01 03:36	0°♊		
morning max el	13956 Aug 29 23:07	4°♌01'00	46°55'53	asc. node	13959 May 22 16:07	24°♊49'28		
	13956 Sep 23 07:41	0°♍			13959 May 27 06:26	0°♌		
	13956 Oct 19 13:02	0°♎		evening max el	13959 Jun 23 02:49	28°♌39'21	46°41'15	
	13956 Nov 13 22:28	0°♏			13959 Jun 24 11:16	0°♍		
asc. node	13956 Dec 05 08:40	25°♏43'40		greatest brilliancy	13959 Aug 02 04:13	29°♍04'38	-4.9m	
	13956 Dec 08 21:31	0°♐			13959 Aug 05 02:13	0°♎		
	13957 Jan 02 13:52	0°♑		retrograde	13959 Aug 12 06:29	0°♎59'15		
	13957 Jan 27 01:52	0°♒			13959 Aug 19 06:06	30°♏♍		
	13957 Feb 20 11:21	0°♓		evening set	13959 Aug 27 04:27	26°♏38'54		
morning set	13957 Feb 27 04:55	8°♓17'33		inferior conj	13959 Sep 01 23:46	23°♏14'17	2°31'47	
	13957 Mar 16 19:20	0°♈		minimum elong	13959 Sep 02 05:31	23°♏05'30	2°29'44	
desc. node	13957 Mar 27 00:37	12°♈37'30		min. Earth dist.	13959 Sep 02 02:22	23°♏10'18	0.26952 AU	
max. Earth dist.	13957 Apr 04 03:51	22°♈40'59	1.72753 AU	morning rise	13959 Sep 08 06:38	19°♏34'01		
				desc. node	13959 Sep 11 18:46	17°♏52'43		
superior conj	13957 Apr 06 06:55	25°♈18'59	-0°24'35	direct	13959 Sep 22 16:57	15°♏29'45		
minimum elong	13957 Apr 06 01:13	25°♈01'20	0°24'39	greatest brilliancy	13959 Oct 02 16:59	17°♏20'22	-4.8m	
	13957 Apr 10 01:43	0°♉			13959 Oct 23 15:25	0°♏		
	13957 May 04 06:05	0°♊		morning max el	13959 Nov 11 08:51	16°♏46'14	46°20'02	
evening rise	13957 May 15 00:04	13°♊22'06			13959 Nov 24 09:55	0°♋		
	13957 May 28 08:34	0°♋			13959 Dec 21 19:43	0°♌		
	13957 Jun 21 10:21	0°♌		asc. node	13960 Jan 02 20:19	13°♌45'09		
	13957 Jul 15 13:25	0°♍			13960 Jan 16 18:49	0°♍		
asc. node	13957 Jul 17 14:23	2°♍31'48			13960 Feb 11 00:21	0°♎		
	13957 Aug 08 20:14	0°♎			13960 Mar 06 19:45	0°♏		
	13957 Sep 02 10:12	0°♏			13960 Mar 31 08:50	0°♐		
	13957 Sep 27 13:45	0°♐		desc. node	13960 Apr 23 14:54	28°♐38'26		
	13957 Oct 23 21:13	0°♑			13960 Apr 24 17:18	0°♑		
desc. node	13957 Nov 06 11:22	14°♑32'41		morning set	13960 May 09 13:28	18°♑23'02		
evening max el	13957 Nov 16 02:18	24°♑14'59	46°09'42		13960 May 18 21:43	0°♒		
	13957 Nov 22 03:14	0°♒			13960 Jun 11 22:44	0°♓		
greatest brilliancy	13957 Dec 25 08:10	23°♒06'12	-4.8m	max. Earth dist.	13960 Jun 15 17:22	4°♓43'32	1.71700 AU	
retrograde	13958 Jan 04 09:20	24°♒55'53						
evening set	13958 Jan 21 14:43	19°♒17'51		superior conj	13960 Jun 18 09:01	8°♓02'45	-1°27'26	
inferior conj	13958 Jan 25 19:51	16°♒41'42	-6°58'19	minimum elong	13960 Jun 18 08:38	8°♓01'31	1°28'29	
minimum elong	13958 Jan 26 05:57	16°♒25'50	6°55'38		13960 Jul 05 21:34	0°♌		
min. Earth dist.	13958 Jan 26 02:24	16°♒31'24	0.28798 AU	evening rise	13960 Jul 28 11:48	28°♌19'26		
morning rise	13958 Jan 30 21:12	13°♒36'20			13960 Jul 29 19:55	0°♍		
direct	13958 Feb 16 05:14	8°♒29'29		asc. node	13960 Aug 14 04:20	19°♍13'01		
greatest brilliancy	13958 Feb 26 21:17	10°♒34'28	-4.8m		13960 Aug 22 19:26	0°♎		
asc. node	13958 Feb 27 13:57	10°♒50'28			13960 Sep 15 21:46	0°♏		
	13958 Mar 27 11:19	0°♓			13960 Oct 10 05:04	0°♐		
morning max el	13958 Apr 06 11:46	9°♓24'58	45°56'42		13960 Nov 03 21:00	0°♑		
	13958 Apr 26 07:40	0°♈			13960 Nov 29 03:36	0°♒		
	13958 May 22 22:04	0°♉		desc. node	13960 Dec 03 21:58	5°♒32'28		
	13958 Jun 17 06:29	0°♊			13960 Dec 25 11:24	0°♓		
desc. node	13958 Jun 19 15:02	2°♊50'06			13961 Jan 22 23:06	0°♈		
	13958 Jul 11 23:06	0°♋		evening max el	13961 Jan 26 00:57	2°♈59'39	45°55'57	
	13958 Aug 05 06:57	0°♌			13961 Mar 02 07:27	0°♉		
	13958 Aug 29 10:29	0°♍		greatest brilliancy	13961 Mar 06 03:18	1°♉33'18	-4.8m	
	13958 Sep 22 12:27	0°♎		retrograde	13961 Mar 16 02:45	3°♉23'24		
morning set	13958 Oct 08 06:52	19°♎39'10		asc. node	13961 Mar 26 22:56	1°♉01'57		
asc. node	13958 Oct 10 07:35	22°♎10'56			13961 Mar 29 04:33	30°♏♈		
	13958 Oct 16 14:12	0°♏		evening set	13961 Mar 30 22:19	29°♈05'37		
	13958 Nov 09 16:26	0°♐		inferior conj	13961 Apr 06 05:57	25°♈19'20	2°32'49	
				minimum elong	13961 Apr 06 00:21	25°♈28'05	2°30'46	
superior conj	13958 Nov 15 15:37	7°♐25'11	1°13'48	min. Earth dist.	13961 Apr 06 08:29	25°♈15'23	0.28123 AU	
minimum elong	13958 Nov 15 06:32	6°♐56'54	1°14'29	morning rise	13961 Apr 12 01:59	21°♈47'55		
max. Earth dist.	13958 Nov 17 22:29	10°♐15'40	1.72456 AU	direct	13961 Apr 27 08:52	17°♈10'49		
	13958 Dec 03 20:00	0°♑		greatest brilliancy	13961 May 07 21:28	19°♈14'08	-4.8m	
evening rise	13958 Dec 22 19:59	23°♑30'40			13961 May 26 00:00	0°♉		
	13958 Dec 28 02:11	0°♒		morning max el	13961 Jun 16 10:38	19°♉16'02	46°39'38	
	13959 Jan 21 12:10	0°♓			13961 Jun 26 20:40	0°♊		
desc. node	13959 Jan 29 21:33	10°♓15'43		desc. node	13961 Jul 17 02:04	22°♊16'59		
	13959 Feb 15 02:23	0°♈			13961 Jul 23 19:41	0°♋		
	13959 Mar 11 20:43	0°♉			13961 Aug 18 06:43	0°♌		
	13959 Apr 05 19:52	0°♊			13961 Sep 12 02:18	0°♍		



	13961 Oct 06 14:58	0°♄		asc. node	13964 Apr 23 08:10	27°♄33'27	
	13961 Oct 31 00:24	0°♍			13964 Apr 26 07:39	0°♄	
asc. node	13961 Nov 06 21:35	8°♍29'00		greatest brilliancy	13964 May 17 17:18	12°♄55'42	-4.8m
	13961 Nov 24 07:56	0°♅		retrograde	13964 May 27 07:54	14°♄38'44	
morning set	13961 Dec 18 01:25	29°♅20'04		evening set	13964 Jun 14 10:28	8°♄23'38	
	13961 Dec 18 14:20	0°♄		inferior conj	13964 Jun 17 01:38	6°♄46'12	9°09'58
	13962 Jan 11 20:37	0°♁		minimum elong	13964 Jun 17 00:29	6°♄47'59	9°08'53
				min. Earth dist.	13964 Jun 17 09:15	6°♄34'21	0.27586 AU
superior conj	13962 Jan 23 21:23	14°♁51'46	1°09'50	morning rise	13964 Jun 19 14:28	5°♄12'14	
minimum elong	13962 Jan 24 06:49	15°♁20'52	1°10'22		13964 Jun 30 06:58	30°♅♄	
max. Earth dist.	13962 Jan 25 00:07	16°♁14'17	1.73122 AU	direct	13964 Jul 08 00:05	28°♄46'58	
	13962 Feb 05 03:49	0°♅			13964 Jul 15 23:04	0°♄	
desc. node	13962 Feb 26 11:48	26°♅16'59		greatest brilliancy	13964 Jul 17 22:36	0°♄39'08	-4.9m
	13962 Mar 01 12:15	0°♅		desc. node	13964 Aug 13 11:43	18°♄19'12	
evening rise	13962 Mar 02 13:40	1°♅18'12			13964 Aug 25 21:08	0°♄	
	13962 Mar 25 21:24	0°♄		morning max el	13964 Aug 27 12:29	1°♄38'17	46°56'11
	13962 Apr 19 06:39	0°♄			13964 Sep 22 23:57	0°♄	
	13962 May 13 16:26	0°♄			13964 Oct 19 02:44	0°♄	
	13962 Jun 07 04:57	0°♄			13964 Nov 13 10:51	0°♄	
asc. node	13962 Jun 19 03:31	14°♄29'42		asc. node	13964 Dec 04 10:38	25°♄14'21	
	13962 Jul 02 00:36	0°♄			13964 Dec 08 09:05	0°♄	
	13962 Jul 27 11:14	0°♄			13965 Jan 02 00:56	0°♄	
evening max el	13962 Aug 23 07:29	0°♄			13965 Jan 26 12:37	0°♁	
	13962 Sep 03 08:29	11°♄26'49	46°38'36		13965 Feb 19 21:58	0°♅	
	13962 Sep 23 17:32	0°♅		morning set	13965 Feb 24 21:16	6°♅07'30	
desc. node	13962 Oct 09 03:46	10°♅04'39			13965 Mar 16 05:54	0°♅	
greatest brilliancy	13962 Oct 12 15:02	11°♅35'29	-4.8m	desc. node	13965 Mar 26 02:18	12°♅10'07	
retrograde	13962 Oct 23 14:51	13°♅49'35		max. Earth dist.	13965 Apr 01 18:31	20°♅25'17	1.72784 AU
evening set	13962 Nov 09 05:15	8°♅30'34					
min. Earth dist.	13962 Nov 12 23:56	6°♅13'59	0.28141 AU	superior conj	13965 Apr 03 21:32	23°♅03'02	-0°21'09
inferior conj	13962 Nov 13 20:32	5°♅42'10	-7°33'49	minimum elong	13965 Apr 03 16:36	22°♅47'44	0°21'13
minimum elong	13962 Nov 13 10:51	5°♅57'09	7°31'18		13965 Apr 09 12:19	0°♄	
morning rise	13962 Nov 17 16:49	3°♅22'19			13965 May 03 16:45	0°♄	
	13962 Nov 24 07:23	30°♅♄		evening rise	13965 May 12 13:42	11°♄01'50	
direct	13962 Dec 04 22:48	27°♄45'05			13965 May 27 19:21	0°♄	
greatest brilliancy	13962 Dec 14 12:08	29°♄25'14	-4.8m		13965 Jun 20 21:19	0°♄	
	13962 Dec 16 02:55	0°♅			13965 Jul 15 00:38	0°♄	
morning max el	13963 Jan 22 22:23	27°♅57'19	45°45'12	asc. node	13965 Jul 16 16:18	2°♄02'56	
	13963 Jan 25 00:53	0°♄			13965 Aug 08 07:50	0°♄	
asc. node	13963 Jan 30 06:40	5°♄13'14			13965 Sep 01 22:29	0°♄	
	13963 Feb 22 12:28	0°♁			13965 Sep 27 03:18	0°♅	
	13963 Mar 20 19:11	0°♅			13965 Oct 23 13:32	0°♄	
	13963 Apr 15 02:51	0°♅		desc. node	13965 Nov 05 13:18	13°♄48'31	
	13963 May 09 21:38	0°♄		evening max el	13965 Nov 13 16:37	21°♄59'11	46°10'28
desc. node	13963 May 22 04:31	15°♄02'49			13965 Nov 22 04:34	0°♁	
	13963 Jun 03 07:47	0°♄		greatest brilliancy	13965 Dec 23 00:12	20°♁55'26	-4.8m
	13963 Jun 27 11:46	0°♄		retrograde	13966 Jan 02 00:23	22°♁44'39	
	13963 Jul 21 11:52	0°♄		evening set	13966 Jan 19 09:23	17°♁02'21	
morning set	13963 Jul 24 07:41	3°♄32'18		inferior conj	13966 Jan 23 11:41	14°♁30'28	-7°10'44
	13963 Aug 14 10:19	0°♄		minimum elong	13966 Jan 23 21:34	14°♁14'54	7°08'09
				min. Earth dist.	13966 Jan 23 18:01	14°♁20'29	0.28809 AU
superior conj	13963 Sep 02 00:57	23°♄19'32	-0°23'33	morning rise	13966 Jan 28 09:44	11°♁29'36	
minimum elong	13963 Sep 02 06:47	23°♄37'46	0°23'29	direct	13966 Feb 13 20:37	6°♁18'18	
max. Earth dist.	13963 Sep 03 07:17	24°♄54'32	1.71588 AU	greatest brilliancy	13966 Feb 24 12:48	8°♁22'47	-4.8m
	13963 Sep 07 08:50	0°♄		asc. node	13966 Feb 26 15:50	9°♁14'12	
asc. node	13963 Sep 11 18:51	5°♄31'53			13966 Mar 27 13:27	0°♅	
	13963 Oct 01 08:31	0°♄		morning max el	13966 Apr 04 01:56	7°♅08'33	45°55'32
evening rise	13963 Oct 11 04:11	12°♄15'14			13966 Apr 26 00:15	0°♅	
	13963 Oct 25 10:24	0°♅			13966 May 22 11:48	0°♄	
	13963 Nov 18 16:05	0°♄			13966 Jun 16 18:55	0°♄	
	13963 Dec 13 03:55	0°♁		desc. node	13966 Jun 18 16:59	2°♄18'44	
desc. node	13964 Jan 01 10:07	23°♁17'04			13966 Jul 11 10:51	0°♄	
	13964 Jan 07 00:32	0°♅			13966 Aug 04 18:17	0°♄	
	13964 Feb 01 08:38	0°♅			13966 Aug 28 21:31	0°♄	
	13964 Feb 27 09:13	0°♄			13966 Sep 21 23:15	0°♄	
	13964 Mar 25 17:35	0°♄		morning set	13966 Oct 05 21:07	17°♄20'39	
evening max el	13964 Apr 07 17:06	13°♄13'54	46°13'35	asc. node	13966 Oct 09 09:21	21°♄43'07	

	13966 Oct 16 00:51	0°♌		minimum elong	13969 Apr 03 16:10	23°♏11'26	2°09'44
	13966 Nov 09 03:01	0°♌		min. Earth dist.	13969 Apr 03 23:41	22°♏59'43	0.28147 AU
				morning rise	13969 Apr 09 19:07	19°♏29'52	
superior conj	13966 Nov 13 07:32	5°♌12'33	1°11'58	direct	13969 Apr 25 00:37	14°♏55'07	
minimum elong	13966 Nov 12 22:04	4°♌43'08	1°12'37	greatest brilliancy	13969 May 05 13:09	16°♏58'47	-4.8m
max. Earth dist.	13966 Nov 15 12:01	7°♌55'40	1.72427 AU		13969 May 26 12:02	0°♏	
	13966 Dec 03 06:36	0°♏		morning max el	13969 Jun 14 02:35	17°♏01'09	46°38'10
evening rise	13966 Dec 20 12:12	21°♏19'39			13969 Jun 26 15:26	0°♏	
	13966 Dec 27 12:52	0°♏		desc. node	13969 Jul 16 04:02	21°♏38'21	
	13967 Jan 20 23:02	0°♏			13969 Jul 23 10:33	0°♏	
desc. node	13967 Jan 28 23:22	9°♏47'47			13969 Aug 17 19:54	0°♏	
	13967 Feb 14 13:33	0°♏			13969 Sep 11 14:34	0°♏	
	13967 Mar 11 08:23	0°♏			13969 Oct 06 02:40	0°♏	
	13967 Apr 05 08:21	0°♏			13969 Oct 30 11:41	0°♏	
	13967 Apr 30 17:26	0°♏		asc. node	13969 Nov 05 23:33	8°♏00'36	
asc. node	13967 May 21 18:07	24°♏10'25			13969 Nov 23 18:55	0°♏	
	13967 May 26 22:57	0°♏		morning set	13969 Dec 15 18:07	27°♏09'55	
evening max el	13967 Jun 20 15:12	26°♏13'32	46°40'45		13969 Dec 18 01:07	0°♏	
	13967 Jun 24 11:12	0°♏			13970 Jan 11 07:18	0°♏	
greatest brilliancy	13967 Jul 30 18:51	26°♏41'36	-4.9m				
retrograde	13967 Aug 09 19:29	28°♏35'12		superior conj	13970 Jan 21 14:20	12°♏42'56	1°11'44
evening set	13967 Aug 24 19:37	24°♏11'35		minimum elong	13970 Jan 21 23:30	13°♏11'12	1°12'19
inferior conj	13967 Aug 30 12:39	20°♏50'28	2°55'05	max. Earth dist.	13970 Jan 22 21:46	14°♏19'57	1.73114 AU
minimum elong	13967 Aug 30 19:13	20°♏40'27	2°52'45		13970 Feb 04 14:31	0°♏	
min. Earth dist.	13967 Aug 30 16:44	20°♏44'14	0.26945 AU	desc. node	13970 Feb 25 13:33	25°♏49'09	
morning rise	13967 Sep 05 18:47	17°♏11'15		evening rise	13970 Feb 28 05:49	29°♏06'55	
desc. node	13967 Sep 10 20:37	14°♏51'37			13970 Feb 28 23:05	0°♏	
direct	13967 Sep 20 05:15	13°♏05'28			13970 Mar 25 08:26	0°♏	
greatest brilliancy	13967 Sep 30 06:51	14°♏57'36	-4.8m		13970 Apr 18 17:58	0°♏	
	13967 Oct 24 02:26	0°♏			13970 May 13 04:08	0°♏	
morning max el	13967 Nov 08 22:52	14°♏27'00	46°21'44		13970 Jun 06 17:16	0°♏	
	13967 Nov 24 04:31	0°♏		asc. node	13970 Jun 18 05:28	13°♏57'06	
	13967 Dec 21 10:15	0°♏			13970 Jul 01 13:54	0°♏	
asc. node	13968 Jan 01 22:19	13°♏11'45			13970 Jul 27 02:22	0°♏	
	13968 Jan 16 07:35	0°♏			13970 Aug 23 02:51	0°♏	
	13968 Feb 10 12:11	0°♏		evening max el	13970 Sep 01 00:21	9°♏10'13	46°39'17
	13968 Mar 06 07:04	0°♏			13970 Sep 24 08:27	0°♏	
	13968 Mar 30 19:52	0°♏		desc. node	13970 Oct 08 05:48	8°♏27'20	
desc. node	13968 Apr 22 16:45	28°♏10'31		greatest brilliancy	13970 Oct 10 05:32	9°♏16'58	-4.8m
	13968 Apr 24 04:11	0°♏		retrograde	13970 Oct 21 06:16	11°♏31'24	
morning set	13968 May 07 02:14	16°♏00'00		evening set	13970 Nov 06 16:11	6°♏18'27	
	13968 May 18 08:34	0°♏		min. Earth dist.	13970 Nov 10 13:48	3°♏57'34	0.28082 AU
	13968 Jun 11 09:35	0°♏		inferior conj	13970 Nov 11 10:59	3°♏24'50	-7°22'01
max. Earth dist.	13968 Jun 13 05:36	2°♏17'40	1.71733 AU	minimum elong	13970 Nov 11 00:57	3°♏40'20	7°19'23
				morning rise	13970 Nov 15 10:10	1°♏00'49	
superior conj	13968 Jun 15 21:07	5°♏36'25	-1°27'17		13970 Nov 17 05:09	30°♏	
minimum elong	13968 Jun 15 19:40	5°♏31'53	1°28'20	direct	13970 Dec 02 13:23	25°♏28'50	
	13968 Jul 05 08:28	0°♏		greatest brilliancy	13970 Dec 12 00:54	27°♏07'37	-4.8m
evening rise	13968 Jul 25 23:14	25°♏50'36			13970 Dec 18 18:05	0°♏	
	13968 Jul 29 06:53	0°♏		morning max el	13971 Jan 20 13:02	25°♏42'25	45°45'47
asc. node	13968 Aug 13 06:06	18°♏44'01			13971 Jan 24 22:14	0°♏	
	13968 Aug 22 06:31	0°♏		asc. node	13971 Jan 29 08:31	4°♏27'38	
	13968 Sep 15 09:00	0°♏			13971 Feb 22 03:48	0°♏	
	13968 Oct 09 16:36	0°♏			13971 Mar 20 08:21	0°♏	
	13968 Nov 03 09:05	0°♏			13971 Apr 14 15:00	0°♏	
	13968 Nov 28 16:44	0°♏			13971 May 09 09:15	0°♏	
desc. node	13968 Dec 02 23:59	4°♏59'29		desc. node	13971 May 21 06:29	14°♏33'41	
	13968 Dec 25 02:49	0°♏			13971 Jun 02 19:07	0°♏	
	13969 Jan 22 20:48	0°♏			13971 Jun 26 22:55	0°♏	
evening max el	13969 Jan 23 16:39	0°♏47'55	45°55'52		13971 Jul 20 22:55	0°♏	
greatest brilliancy	13969 Mar 03 17:29	29°♏17'43	-4.8m	morning set	13971 Jul 21 19:38	1°♏04'54	
	13969 Mar 05 22:46	0°♏			13971 Aug 13 21:17	0°♏	
retrograde	13969 Mar 13 18:10	1°♏08'28					
	13969 Mar 21 06:19	30°♏		superior conj	13971 Aug 30 13:15	20°♏53'21	-0°27'12
asc. node	13969 Mar 26 00:55	28°♏07'35		minimum elong	13971 Aug 30 19:54	21°♏14'13	0°27'09
evening set	13969 Mar 28 12:55	26°♏50'57		max. Earth dist.	13971 Aug 31 19:28	22°♏28'00	1.71568 AU
inferior conj	13969 Apr 03 21:03	23°♏03'50	2°11'31		13971 Sep 06 19:47	0°♏	

asc. node	13971 Sep 10 20:37	5°♊03'09			13974 Mar 27 14:16	0°♋	
	13971 Sep 30 19:29	0°♌		morning max el	13974 Apr 01 16:48	4°♋53'45	45°54'38
evening rise	13971 Oct 08 18:32	9°♌56'06			13974 Apr 25 16:30	0°♎	
	13971 Oct 24 21:25	0°♍			13974 May 22 01:22	0°♏	
	13971 Nov 18 03:14	0°♎			13974 Jun 16 07:16	0°♐	
	13971 Dec 12 15:22	0°♏		desc. node	13974 Jun 17 18:52	1°♐47'19	
desc. node	13971 Dec 31 11:59	22°♏47'09			13974 Jul 10 22:36	0°♑	
	13972 Jan 06 12:30	0°♋			13974 Aug 04 05:40	0°♒	
	13972 Jan 31 21:34	0°♎			13974 Aug 28 08:40	0°♓	
	13972 Feb 26 23:58	0°♏			13974 Sep 21 10:13	0°♑	
	13972 Mar 25 12:36	0°♐		morning set	13974 Oct 03 10:49	14°♑59'47	
evening max el	13972 Apr 05 06:52	10°♐53'57	46°12'24	asc. node	13974 Oct 08 11:19	21°♑15'23	
asc. node	13972 Apr 22 10:11	26°♐28'05			13974 Oct 15 11:40	0°♌	
	13972 Apr 26 21:40	0°♑			13974 Nov 08 13:44	0°♍	
greatest brilliancy	13972 May 15 06:53	10°♑34'13	-4.8m				
retrograde	13972 May 24 20:38	12°♑16'42		superior conj	13974 Nov 10 22:55	2°♍57'53	1°09'59
evening set	13972 Jun 11 22:06	6°♑04'37		minimum elong	13974 Nov 10 13:09	2°♍27'29	1°10'35
inferior conj	13972 Jun 14 15:20	4°♑23'56	9°08'01	max. Earth dist.	13974 Nov 13 00:55	5°♍33'22	1.72395 AU
minimum elong	13972 Jun 14 13:15	4°♑27'12	9°06'54		13974 Dec 02 17:17	0°♎	
min. Earth dist.	13972 Jun 14 22:38	4°♑12'35	0.27613 AU	evening rise	13974 Dec 18 04:11	19°♎07'44	
morning rise	13972 Jun 17 04:21	2°♑49'31			13974 Dec 26 23:38	0°♏	
	13972 Jun 22 03:40	30°♒♐			13975 Jan 20 09:57	0°♋	
direct	13972 Jul 05 13:40	26°♐24'13		desc. node	13975 Jan 28 01:09	9°♋19'35	
greatest brilliancy	13972 Jul 15 12:49	28°♐16'27	-4.9m		13975 Feb 14 00:47	0°♎	
	13972 Jul 19 15:02	0°♑			13975 Mar 10 20:06	0°♏	
desc. node	13972 Aug 12 13:36	17°♑16'22			13975 Apr 04 20:51	0°♐	
morning max el	13972 Aug 25 01:18	29°♑12'42	46°56'32		13975 Apr 30 07:18	0°♑	
	13972 Aug 25 20:04	0°♒		asc. node	13975 May 20 20:07	23°♑31'30	
	13972 Sep 22 16:21	0°♓			13975 May 26 15:36	0°♒	
	13972 Oct 18 16:39	0°♑		evening max el	13975 Jun 18 04:14	23°♒50'00	46°40'08
	13972 Nov 12 23:27	0°♌			13975 Jun 24 12:08	0°♓	
asc. node	13972 Dec 03 12:30	24°♌44'01		greatest brilliancy	13975 Jul 28 08:33	24°♓17'36	-4.9m
	13972 Dec 07 20:53	0°♍		retrograde	13975 Aug 07 08:44	26°♓10'55	
	13973 Jan 01 12:14	0°♎		evening set	13975 Aug 22 10:48	21°♓43'38	
	13973 Jan 25 23:37	0°♏		inferior conj	13975 Aug 28 01:23	18°♓26'04	3°18'03
	13973 Feb 19 08:47	0°♋		minimum elong	13975 Aug 28 08:43	18°♓14'55	3°15'29
morning set	13973 Feb 22 14:00	3°♋57'53		min. Earth dist.	13975 Aug 28 06:36	18°♓18'07	0.26950 AU
	13973 Mar 15 16:38	0°♎		morning rise	13975 Sep 03 06:35	14°♓48'24	
desc. node	13973 Mar 25 04:12	11°♎42'51		desc. node	13975 Sep 09 22:43	11°♓54'58	
max. Earth dist.	13973 Mar 30 10:57	18°♎14'32	1.72814 AU	direct	13975 Sep 17 18:03	10°♓40'34	
				greatest brilliancy	13975 Sep 27 20:17	12°♓33'48	-4.8m
superior conj	13973 Apr 01 12:37	20°♎48'05	-0°17'43		13975 Oct 24 10:44	0°♑	
minimum elong	13973 Apr 01 08:27	20°♎35'12	0°17'47	morning max el	13975 Nov 06 13:36	12°♑09'08	46°23'21
	13973 Apr 08 23:03	0°♏			13975 Nov 23 22:47	0°♌	
	13973 May 03 03:35	0°♐			13975 Dec 21 00:39	0°♍	
evening rise	13973 May 10 03:45	8°♐42'29		asc. node	13976 Jan 01 00:12	12°♍38'10	
	13973 May 27 06:21	0°♑			13976 Jan 15 20:14	0°♎	
	13973 Jun 20 08:33	0°♒			13976 Feb 09 23:54	0°♏	
	13973 Jul 14 12:11	0°♓			13976 Mar 05 18:15	0°♋	
asc. node	13973 Jul 15 18:03	1°♓32'33			13976 Mar 30 06:45	0°♎	
	13973 Aug 07 19:48	0°♑		desc. node	13976 Apr 21 18:39	27°♎43'11	
	13973 Sep 01 11:09	0°♌			13976 Apr 23 14:55	0°♏	
	13973 Sep 26 17:17	0°♍		morning set	13976 May 04 15:24	13°♏38'49	
	13973 Oct 23 06:28	0°♎			13976 May 17 19:14	0°♐	
desc. node	13973 Nov 04 15:20	13°♎03'17			13976 Jun 10 20:13	0°♑	
evening max el	13973 Nov 11 06:24	19°♎41'23	46°11'26	max. Earth dist.	13976 Jun 10 18:55	29°♐55'56	1.71759 AU
	13973 Nov 22 07:40	0°♏					
greatest brilliancy	13973 Dec 20 15:47	18°♏43'36	-4.8m	superior conj	13976 Jun 13 09:41	3°♑12'16	-1°26'57
retrograde	13973 Dec 30 15:40	20°♏33'08		minimum elong	13976 Jun 13 07:14	3°♑04'35	1°28'01
evening set	13974 Jan 17 04:00	14°♏46'17			13976 Jul 04 19:07	0°♒	
inferior conj	13974 Jan 21 03:31	12°♏18'48	-7°22'30	evening rise	13976 Jul 23 11:08	23°♒24'00	
minimum elong	13974 Jan 21 13:08	12°♏03'41	7°20'02		13976 Jul 28 17:35	0°♓	
min. Earth dist.	13974 Jan 21 09:37	12°♏09'12	0.28818 AU	asc. node	13976 Aug 12 07:57	18°♓16'03	
morning rise	13974 Jan 25 22:12	9°♏22'50			13976 Aug 21 17:21	0°♑	
direct	13974 Feb 11 11:49	4°♏06'35			13976 Sep 14 20:05	0°♌	
greatest brilliancy	13974 Feb 22 04:38	6°♏11'16	-4.8m		13976 Oct 09 04:02	0°♍	
asc. node	13974 Feb 25 17:50	7°♏41'09			13976 Nov 02 21:05	0°♎	

	13976 Nov 28 05:52	0°♊			13979 Jun 02 06:01	0°♊	
desc. node	13976 Dec 02 01:51	4°♊26'10			13979 Jun 26 09:38	0°♊	
	13976 Dec 24 18:21	0°♊	morning set		13979 Jul 19 07:34	28°♊38'42	
evening max el	13977 Jan 21 08:45	28°♊37'35 45°55'55			13979 Jul 20 09:31	0°♊	
	13977 Jan 22 19:13	0°♊			13979 Aug 13 07:50	0°♊	
greatest brilliancy	13977 Mar 01 07:54	27°♊03'05 -4.8m					
retrograde	13977 Mar 11 09:17	28°♊53'55	superior conj		13979 Aug 28 01:47	18°♊29'21 -0°30'47	
asc. node	13977 Mar 25 03:01	25°♊09'37	minimum elong		13979 Aug 28 09:14	18°♊52'41 0°30'45	
evening set	13977 Mar 26 03:43	24°♊36'46	max. Earth dist.		13979 Aug 29 05:24	19°♊55'53 1.71544 AU	
inferior conj	13977 Apr 01 12:04	20°♊48'56 1°50'06			13979 Sep 06 06:16	0°♊	
minimum elong	13977 Apr 01 07:58	20°♊55'21 1°48'34	asc. node		13979 Sep 09 22:32	4°♊36'20	
min. Earth dist.	13977 Apr 01 14:50	20°♊44'36 0.28165 AU			13979 Sep 30 05:56	0°♊	
morning rise	13977 Apr 07 11:58	17°♊12'27	evening rise		13979 Oct 06 09:04	7°♊39'05	
direct	13977 Apr 22 16:29	12°♊40'11			13979 Oct 24 07:55	0°♊	
greatest brilliancy	13977 May 03 04:30	14°♊43'41 -4.8m			13979 Nov 17 13:55	0°♊	
	13977 May 26 20:32	0°♊			13979 Dec 12 02:23	0°♊	
morning max el	13977 Jun 11 17:59	14°♊45'55 46°36'49	desc. node		13979 Dec 30 13:46	22°♊18'13	
	13977 Jun 26 09:21	0°♊			13980 Jan 06 00:07	0°♊	
desc. node	13977 Jul 15 05:52	21°♊00'51			13980 Jan 31 10:13	0°♊	
	13977 Jul 23 00:49	0°♊			13980 Feb 26 14:35	0°♊	
	13977 Aug 17 08:34	0°♊			13980 Mar 25 07:51	0°♊	
	13977 Sep 11 02:22	0°♊	evening max el		13980 Apr 02 19:45	8°♊32'48 46°11'23	
	13977 Oct 05 13:57	0°♊	asc. node		13980 Apr 21 12:10	25°♊21'50	
	13977 Oct 29 22:37	0°♊			13980 Apr 27 15:57	0°♊	
asc. node	13977 Nov 05 01:20	7°♊32'40	greatest brilliancy		13980 May 12 20:23	8°♊13'38 -4.8m	
	13977 Nov 23 05:36	0°♊	retrograde		13980 May 22 09:26	9°♊55'57	
morning set	13977 Dec 13 10:23	24°♊59'13	evening set		13980 Jun 09 09:12	3°♊47'22	
	13977 Dec 17 11:38	0°♊	inferior conj		13980 Jun 12 05:01	2°♊02'49 9°05'09	
	13978 Jan 10 17:44	0°♊	minimum elong		13980 Jun 12 01:58	2°♊07'33 9°03'58	
			min. Earth dist.		13980 Jun 12 12:03	1°♊51'52 0.27638 AU	
superior conj	13978 Jan 19 06:51	10°♊33'29 1°13'32	morning rise		13980 Jun 14 18:41	0°♊27'18	
minimum elong	13978 Jan 19 15:41	11°♊00'46 1°14'11			13980 Jun 15 12:42	30°♊♊	
max. Earth dist.	13978 Jan 20 17:47	12°♊21'19 1.73101 AU	direct		13980 Jul 03 02:57	24°♊02'24	
	13978 Feb 04 00:57	0°♊	greatest brilliancy		13980 Jul 13 03:24	25°♊55'28 -4.9m	
desc. node	13978 Feb 24 15:24	25°♊22'26			13980 Jul 21 14:45	0°♊	
evening rise	13978 Feb 25 21:29	26°♊55'01	desc. node		13980 Aug 11 15:41	16°♊16'46	
	13978 Feb 28 09:37	0°♊	morning max el		13980 Aug 22 14:20	26°♊48'52 46°56'59	
	13978 Mar 24 19:10	0°♊			13980 Aug 25 17:37	0°♊	
	13978 Apr 18 04:59	0°♊			13980 Sep 22 08:01	0°♊	
	13978 May 12 15:32	0°♊			13980 Oct 18 05:58	0°♊	
	13978 Jun 06 05:16	0°♊			13980 Nov 12 11:31	0°♊	
asc. node	13978 Jun 17 07:16	13°♊25'07	asc. node		13980 Dec 02 14:20	24°♊15'06	
	13978 Jul 01 02:53	0°♊			13980 Dec 07 08:11	0°♊	
	13978 Jul 26 17:11	0°♊			13980 Dec 31 23:03	0°♊	
	13978 Aug 22 22:10	0°♊			13981 Jan 25 10:11	0°♊	
evening max el	13978 Aug 29 15:42	6°♊53'52 46°39'55			13981 Feb 18 19:14	0°♊	
	13978 Sep 25 03:28	0°♊	morning set		13981 Feb 20 06:36	1°♊48'57	
desc. node	13978 Oct 07 07:48	6°♊48'07			13981 Mar 15 03:03	0°♊	
greatest brilliancy	13978 Oct 07 20:33	7°♊00'42 -4.8m	desc. node		13981 Mar 24 06:04	11°♊16'21	
retrograde	13978 Oct 18 21:07	9°♊14'44	max. Earth dist.		13981 Mar 28 03:54	16°♊06'17 1.72848 AU	
evening set	13978 Nov 04 03:16	4°♊07'51					
min. Earth dist.	13978 Nov 08 04:06	1°♊42'14 0.28028 AU	superior conj		13981 Mar 30 03:25	18°♊33'11 -0°14'15	
inferior conj	13978 Nov 09 01:31	1°♊09'08 -7°09'31	minimum elong		13981 Mar 30 00:03	18°♊22'46 0°14'18	
minimum elong	13978 Nov 08 15:12	1°♊25'05 7°06'44	behind sun begin		13981 Mar 29 13:08	17°♊49'01	
	13978 Nov 10 22:28	30°♊♊	behind sun end		13981 Mar 30 10:58	18°♊56'32	
morning rise	13978 Nov 13 03:38	28°♊40'44			13981 Apr 08 09:30	0°♊	
direct	13978 Nov 30 03:50	23°♊14'07			13981 May 02 14:08	0°♊	
greatest brilliancy	13978 Dec 09 14:21	24°♊51'56 -4.8m	evening rise		13981 May 07 17:33	6°♊23'20	
	13978 Dec 20 08:37	0°♊			13981 May 26 17:03	0°♊	
morning max el	13979 Jan 18 02:50	23°♊26'23 45°46'13			13981 Jun 19 19:28	0°♊	
	13979 Jan 24 18:26	0°♊			13981 Jul 13 23:24	0°♊	
asc. node	13979 Jan 28 10:30	3°♊44'03	asc. node		13981 Jul 14 19:59	1°♊03'40	
	13979 Feb 21 18:35	0°♊			13981 Aug 07 07:29	0°♊	
	13979 Mar 19 21:05	0°♊			13981 Aug 31 23:33	0°♊	
	13979 Apr 14 02:45	0°♊			13981 Sep 26 07:02	0°♊	
	13979 May 08 20:28	0°♊			13981 Oct 22 23:18	0°♊	
desc. node	13979 May 20 08:13	14°♊05'09	desc. node		13981 Nov 03 17:15	12°♊18'21	

evening max el	13981 Nov 08 20:33	17° $\text{Z}$ 25'48	46°12'35		13984 Jun 10 06:57	0° $\text{G}$	
	13981 Nov 22 11:54	0° $\approx$					
greatest brilliancy	13981 Dec 18 06:42	16° $\approx$ 32'35	-4.8m	superior conj	13984 Jun 10 22:00	0° $\text{G}$ 47'05	-1°26'28
retrograde	13981 Dec 28 07:33	18° $\approx$ 23'22		minimum elong	13984 Jun 10 18:34	0° $\text{G}$ 36'21	1°27'30
evening set	13982 Jan 14 22:38	12° $\approx$ 31'50			13984 Jul 04 05:53	0° $\Omega$	
inferior conj	13982 Jan 18 19:27	10° $\approx$ 08'37	-7°33'29	evening rise	13984 Jul 20 22:26	20° $\Omega$ 55'08	
minimum elong	13982 Jan 19 04:45	9° $\approx$ 54'02	7°31'10		13984 Jul 28 04:26	0° $\text{M}$	
min. Earth dist.	13982 Jan 19 00:56	10° $\approx$ 00'02	0.28830 AU	asc. node	13984 Aug 11 09:50	17° $\text{M}$ 47'46	
morning rise	13982 Jan 23 10:47	7° $\approx$ 17'47			13984 Aug 21 04:20	0° $\underline{\text{L}}$	
direct	13982 Feb 09 03:23	1° $\approx$ 56'18			13984 Sep 14 07:15	0° $\text{M}$	
greatest brilliancy	13982 Feb 19 20:24	4° $\approx$ 01'08	-4.8m		13984 Oct 08 15:33	0° $\text{X}$	
asc. node	13982 Feb 24 19:55	6° $\approx$ 12'45			13984 Nov 02 09:13	0° $\text{Z}$	
	13982 Mar 27 13:33	0° $\text{H}$			13984 Nov 27 19:09	0° $\approx$	
morning max el	13982 Mar 30 08:35	2° $\text{H}$ 42'08	45°53'30	desc. node	13984 Dec 01 03:43	3° $\approx$ 52'34	
	13982 Apr 25 08:16	0° $\text{Y}$			13984 Dec 24 10:11	0° $\text{H}$	
	13982 May 21 14:40	0° $\text{B}$		evening max el	13985 Jan 19 00:53	26° $\text{H}$ 27'19	45°56'00
	13982 Jun 15 19:26	0° $\text{II}$			13985 Jan 22 18:37	0° $\text{Y}$	
desc. node	13982 Jun 16 20:45	1° $\text{II}$ 16'26		greatest brilliancy	13985 Feb 26 23:02	24° $\text{Y}$ 49'51	-4.8m
	13982 Jul 10 10:08	0° $\text{G}$		retrograde	13985 Mar 09 00:12	26° $\text{Y}$ 40'08	
	13982 Aug 03 16:50	0° $\Omega$		evening set	13985 Mar 23 18:59	22° $\text{Y}$ 23'15	
	13982 Aug 27 19:34	0° $\text{M}$		asc. node	13985 Mar 24 04:53	22° $\text{Y}$ 09'37	
	13982 Sep 20 20:56	0° $\underline{\text{L}}$		inferior conj	13985 Mar 30 03:22	18° $\text{Y}$ 34'56	1°28'46
morning set	13982 Oct 01 00:31	12° $\underline{\text{L}}$ 39'34		minimum elong	13985 Mar 30 00:02	18° $\text{Y}$ 40'09	1°27'30
asc. node	13982 Oct 07 13:04	20° $\underline{\text{L}}$ 47'42		min. Earth dist.	13985 Mar 30 06:26	18° $\text{Y}$ 30'08	0.28185 AU
	13982 Oct 14 22:15	0° $\text{M}$		morning rise	13985 Apr 05 04:53	14° $\text{Y}$ 56'00	
	13982 Nov 08 00:14	0° $\text{X}$		direct	13985 Apr 20 08:27	10° $\text{Y}$ 26'14	
				greatest brilliancy	13985 Apr 30 20:09	12° $\text{Y}$ 29'21	-4.8m
superior conj	13982 Nov 08 14:22	0° $\text{X}$ 43'57	1°07'53		13985 May 27 02:35	0° $\text{B}$	
minimum elong	13982 Nov 08 04:20	0° $\text{X}$ 12'44	1°08'26	morning max el	13985 Jun 09 08:29	12° $\text{B}$ 28'12	46°35'09
max. Earth dist.	13982 Nov 10 15:14	3° $\text{X}$ 16'00	1.72362 AU		13985 Jun 26 02:59	0° $\text{II}$	
	13982 Dec 02 03:46	0° $\text{Z}$		desc. node	13985 Jul 14 07:56	20° $\text{II}$ 23'39	
evening rise	13982 Dec 15 20:27	16° $\text{Z}$ 57'18			13985 Jul 22 15:10	0° $\text{G}$	
	13982 Dec 26 10:09	0° $\approx$			13985 Aug 16 21:28	0° $\Omega$	
	13983 Jan 19 20:39	0° $\text{H}$			13985 Sep 10 14:27	0° $\text{M}$	
desc. node	13983 Jan 27 03:06	8° $\text{H}$ 52'37			13985 Oct 05 01:29	0° $\underline{\text{L}}$	
	13983 Feb 13 11:48	0° $\text{Y}$			13985 Oct 29 09:47	0° $\text{M}$	
	13983 Mar 10 07:41	0° $\text{B}$		asc. node	13985 Nov 04 03:09	7° $\text{M}$ 04'06	
	13983 Apr 04 09:19	0° $\text{II}$			13985 Nov 22 16:29	0° $\text{X}$	
	13983 Apr 29 21:16	0° $\text{G}$		morning set	13985 Dec 11 02:35	22° $\text{X}$ 47'40	
asc. node	13983 May 19 21:57	22° $\text{G}$ 51'37			13985 Dec 16 22:20	0° $\text{Z}$	
	13983 May 26 08:38	0° $\Omega$			13986 Jan 10 04:21	0° $\approx$	
evening max el	13983 Jun 15 18:11	21° $\Omega$ 28'37	46°39'31				
	13983 Jun 24 14:33	0° $\text{M}$		superior conj	13986 Jan 16 23:36	8° $\approx$ 24'12	1°15'14
greatest brilliancy	13983 Jul 25 21:48	21° $\text{M}$ 53'01	-4.9m	minimum elong	13986 Jan 17 08:04	8° $\approx$ 50'21	1°15'55
retrograde	13983 Aug 04 22:10	23° $\text{M}$ 46'14		max. Earth dist.	13986 Jan 18 12:16	10° $\approx$ 17'22	1.73086 AU
evening set	13983 Aug 20 02:05	19° $\text{M}$ 15'19			13986 Feb 03 11:36	0° $\text{H}$	
inferior conj	13983 Aug 25 13:59	16° $\text{M}$ 01'20	3°40'44	evening rise	13986 Feb 23 13:29	24° $\text{H}$ 43'33	
minimum elong	13983 Aug 25 22:01	15° $\text{M}$ 49'06	3°37'58	desc. node	13986 Feb 23 17:16	24° $\text{H}$ 55'09	
min. Earth dist.	13983 Aug 25 19:58	15° $\text{M}$ 52'13	0.26952 AU		13986 Feb 27 20:22	0° $\text{Y}$	
morning rise	13983 Aug 31 17:58	12° $\text{M}$ 25'34			13986 Mar 24 06:06	0° $\text{B}$	
desc. node	13983 Sep 09 00:43	9° $\text{M}$ 03'45			13986 Apr 17 16:11	0° $\text{II}$	
direct	13983 Sep 15 07:12	8° $\text{M}$ 15'37			13986 May 12 03:10	0° $\text{G}$	
greatest brilliancy	13983 Sep 25 08:56	10° $\text{M}$ 09'05	-4.9m		13986 Jun 05 17:34	0° $\Omega$	
	13983 Oct 24 16:34	0° $\underline{\text{L}}$		asc. node	13986 Jun 16 09:15	12° $\Omega$ 52'45	
morning max el	13983 Nov 04 04:25	9° $\underline{\text{L}}$ 51'40	46°24'56		13986 Jun 30 16:18	0° $\text{M}$	
	13983 Nov 23 16:28	0° $\text{M}$			13986 Jul 26 08:40	0° $\underline{\text{L}}$	
	13983 Dec 20 14:46	0° $\text{X}$			13986 Aug 22 18:41	0° $\text{M}$	
asc. node	13983 Dec 31 02:07	12° $\text{X}$ 05'12		evening max el	13986 Aug 27 06:11	4° $\text{M}$ 33'37	46°40'25
	13984 Jan 15 08:42	0° $\text{Z}$			13986 Sep 26 06:43	0° $\text{X}$	
	13984 Feb 09 11:28	0° $\approx$		greatest brilliancy	13986 Oct 05 11:59	4° $\text{X}$ 42'55	-4.8m
	13984 Mar 05 05:18	0° $\text{H}$		desc. node	13986 Oct 06 09:43	5° $\text{X}$ 03'11	
	13984 Mar 29 17:33	0° $\text{Y}$		retrograde	13986 Oct 16 11:23	6° $\text{X}$ 56'06	
desc. node	13984 Apr 20 20:24	27° $\text{Y}$ 15'30		evening set	13986 Nov 01 14:15	1° $\text{X}$ 55'10	
	13984 Apr 23 01:37	0° $\text{B}$			13986 Nov 04 19:36	30° $\text{R}$ $\text{M}$	
morning set	13984 May 02 04:41	11° $\text{B}$ 18'08		min. Earth dist.	13986 Nov 05 18:40	29° $\text{M}$ 24'29	0.27969 AU
	13984 May 17 05:55	0° $\text{II}$		inferior conj	13986 Nov 06 15:53	28° $\text{M}$ 51'40	-6°56'14
max. Earth dist.	13984 Jun 08 05:37	27° $\text{II}$ 25'46	1.71792 AU	minimum elong	13986 Nov 06 05:23	29° $\text{M}$ 07'55	6°53'18

morning rise	13986 Nov 10 20:58	26° $\mathbb{M}$ 18'49			13989 Apr 07 20:19	0° $\mathcal{B}$	
direct	13986 Nov 27 17:38	20° $\mathbb{M}$ 57'33			13989 May 02 01:03	0° $\mathbb{I}$	
greatest brilliancy	13986 Dec 07 04:15	22° $\mathbb{M}$ 35'07	-4.8m	evening rise	13989 May 05 07:45	4° $\mathbb{I}$ 04'23	
	13986 Dec 21 12:11	0° $\mathcal{A}$			13989 May 26 04:07	0° $\mathcal{E}$	
morning max el	13987 Jan 15 15:47	21° $\mathcal{A}$ 07'07	45°46'51		13989 Jun 19 06:45	0° $\mathcal{Q}$	
	13987 Jan 24 14:22	0° $\mathcal{B}$			13989 Jul 13 10:57	0° $\mathbb{M}$	
asc. node	13987 Jan 27 12:36	3° $\mathcal{B}$ 00'23		asc. node	13989 Jul 13 21:54	0° $\mathbb{M}$ 33'50	
	13987 Feb 21 09:29	0° $\approx$			13989 Aug 06 19:28	0° $\mathcal{A}$	
	13987 Mar 19 10:02	0° $\mathcal{H}$			13989 Aug 31 12:20	0° $\mathbb{M}$	
	13987 Apr 13 14:45	0° $\mathcal{Y}$			13989 Sep 25 21:19	0° $\mathcal{A}$	
	13987 May 08 07:56	0° $\mathcal{B}$			13989 Oct 22 17:01	0° $\mathcal{B}$	
desc. node	13987 May 19 10:09	13° $\mathcal{B}$ 36'18		desc. node	13989 Nov 02 19:13	11° $\mathcal{B}$ 31'27	
	13987 Jun 01 17:10	0° $\mathbb{I}$		evening max el	13989 Nov 06 11:32	15° $\mathcal{B}$ 10'46	46°13'34
	13987 Jun 25 20:38	0° $\mathcal{E}$			13989 Nov 22 18:58	0° $\approx$	
morning set	13987 Jul 16 19:40	26° $\mathcal{E}$ 12'06		greatest brilliancy	13989 Dec 15 21:04	14° $\approx$ 19'13	-4.8m
	13987 Jul 19 20:27	0° $\mathcal{Q}$		retrograde	13989 Dec 25 23:45	16° $\approx$ 11'37	
	13987 Aug 12 18:44	0° $\mathbb{M}$		evening set	13990 Jan 12 17:06	10° $\approx$ 15'29	
				inferior conj	13990 Jan 16 11:13	7° $\approx$ 56'28	-7°43'55
superior conj	13987 Aug 25 14:14	16° $\mathbb{M}$ 03'51	-0°34'19	minimum elong	13990 Jan 16 20:09	7° $\approx$ 42'30	7°41'43
minimum elong	13987 Aug 25 22:25	16° $\mathbb{M}$ 29'31	0°34'18	min. Earth dist.	13990 Jan 16 15:44	7° $\approx$ 49'24	0.28838 AU
max. Earth dist.	13987 Aug 26 12:35	17° $\mathbb{M}$ 13'55	1.71530 AU	morning rise	13990 Jan 20 23:10	5° $\approx$ 10'57	
	13987 Sep 05 17:11	0° $\mathcal{A}$			13990 Feb 03 04:24	30° $\mathcal{R}$ $\mathcal{B}$	
asc. node	13987 Sep 09 00:19	4° $\mathcal{A}$ 07'46		direct	13990 Feb 06 19:16	29° $\mathcal{B}$ 44'14	
	13987 Sep 29 16:52	0° $\mathbb{M}$			13990 Feb 10 11:51	0° $\approx$	
evening rise	13987 Oct 03 23:12	5° $\mathbb{M}$ 19'18		greatest brilliancy	13990 Feb 17 11:30	1° $\approx$ 48'45	-4.8m
	13987 Oct 23 18:54	0° $\mathcal{A}$		asc. node	13990 Feb 23 21:48	4° $\approx$ 45'34	
	13987 Nov 17 01:04	0° $\mathcal{B}$			13990 Mar 27 12:17	0° $\mathcal{H}$	
	13987 Dec 11 13:53	0° $\approx$		morning max el	13990 Mar 28 00:46	0° $\mathcal{H}$ 30'28	45°52'29
desc. node	13987 Dec 29 15:46	21° $\approx$ 48'37			13990 Apr 25 00:06	0° $\mathcal{Y}$	
	13988 Jan 05 12:13	0° $\mathcal{H}$			13990 May 21 04:09	0° $\mathcal{B}$	
	13988 Jan 30 23:22	0° $\mathcal{Y}$			13990 Jun 15 07:50	0° $\mathbb{I}$	
	13988 Feb 26 05:47	0° $\mathcal{B}$		desc. node	13990 Jun 15 22:42	0° $\mathbb{I}$ 44'59	
	13988 Mar 25 04:05	0° $\mathbb{I}$			13990 Jul 09 21:56	0° $\mathcal{E}$	
evening max el	13988 Mar 31 08:50	6° $\mathbb{I}$ 11'24	46°10'30		13990 Aug 03 04:16	0° $\mathcal{Q}$	
asc. node	13988 Apr 20 14:07	24° $\mathbb{I}$ 12'58			13990 Aug 27 06:43	0° $\mathbb{M}$	
	13988 Apr 28 17:19	0° $\mathcal{E}$			13990 Sep 20 07:52	0° $\mathcal{A}$	
greatest brilliancy	13988 May 10 09:41	5° $\mathcal{E}$ 52'28	-4.8m	morning set	13990 Sep 28 14:31	10° $\mathcal{A}$ 19'31	
retrograde	13988 May 19 22:58	7° $\mathcal{E}$ 35'23		asc. node	13990 Oct 06 14:51	20° $\mathcal{A}$ 19'22	
evening set	13988 Jun 06 20:08	1° $\mathcal{E}$ 30'36			13990 Oct 14 09:04	0° $\mathbb{M}$	
	13988 Jun 09 07:11	30° $\mathcal{R}$ $\mathbb{I}$					
inferior conj	13988 Jun 09 18:58	29° $\mathbb{I}$ 41'40	9°01'22	superior conj	13990 Nov 06 05:51	28° $\mathbb{M}$ 29'16	1°05'41
minimum elong	13988 Jun 09 15:02	29° $\mathbb{I}$ 47'48	9°00'05	minimum elong	13990 Nov 05 19:37	27° $\mathbb{M}$ 57'26	1°06'11
min. Earth dist.	13988 Jun 10 01:30	29° $\mathbb{I}$ 31'31	0.27663 AU		13990 Nov 07 11:00	0° $\mathcal{A}$	
morning rise	13988 Jun 12 09:50	28° $\mathbb{I}$ 04'26		max. Earth dist.	13990 Nov 08 07:55	1° $\mathcal{A}$ 05'05	1.72335 AU
direct	13988 Jun 30 16:37	21° $\mathbb{I}$ 40'34			13990 Dec 01 14:33	0° $\mathcal{B}$	
greatest brilliancy	13988 Jul 10 17:59	23° $\mathbb{I}$ 34'26	-4.9m	evening rise	13990 Dec 13 12:41	14° $\mathcal{B}$ 45'46	
	13988 Jul 22 22:55	0° $\mathcal{E}$			13990 Dec 25 21:01	0° $\approx$	
desc. node	13988 Aug 10 17:40	15° $\mathcal{E}$ 17'45			13991 Jan 19 07:42	0° $\mathcal{H}$	
morning max el	13988 Aug 20 04:13	24° $\mathcal{E}$ 26'30	46°57'15	desc. node	13991 Jan 26 04:55	8° $\mathcal{H}$ 24'11	
	13988 Aug 25 14:41	0° $\mathcal{Q}$			13991 Feb 12 23:12	0° $\mathcal{Y}$	
	13988 Sep 21 23:47	0° $\mathbb{M}$			13991 Mar 09 19:38	0° $\mathcal{B}$	
	13988 Oct 17 19:36	0° $\mathcal{A}$			13991 Apr 03 22:08	0° $\mathbb{I}$	
	13988 Nov 11 23:58	0° $\mathbb{M}$			13991 Apr 29 11:38	0° $\mathcal{E}$	
asc. node	13988 Dec 01 16:19	23° $\mathbb{M}$ 45'10		asc. node	13991 May 18 23:59	22° $\mathcal{E}$ 11'19	
	13988 Dec 06 19:55	0° $\mathcal{A}$			13991 May 26 02:15	0° $\mathcal{Q}$	
	13988 Dec 31 10:19	0° $\mathcal{B}$		evening max el	13991 Jun 13 08:40	19° $\mathcal{Q}$ 08'09	46°38'50
	13989 Jan 24 21:10	0° $\approx$			13991 Jun 24 18:48	0° $\mathbb{M}$	
morning set	13989 Feb 17 23:13	29° $\approx$ 38'54		greatest brilliancy	13991 Jul 23 11:27	19° $\mathbb{M}$ 28'44	-4.9m
	13989 Feb 18 06:04	0° $\mathcal{H}$		retrograde	13991 Aug 02 11:38	21° $\mathbb{M}$ 21'18	
	13989 Mar 14 13:50	0° $\mathcal{Y}$		evening set	13991 Aug 17 17:45	16° $\mathbb{M}$ 46'56	
desc. node	13989 Mar 23 07:47	10° $\mathcal{Y}$ 48'16		inferior conj	13991 Aug 23 02:45	13° $\mathbb{M}$ 36'33	4°03'01
max. Earth dist.	13989 Mar 25 23:13	14° $\mathcal{Y}$ 04'16	1.72877 AU	minimum elong	13991 Aug 23 11:27	13° $\mathbb{M}$ 23'19	4°00'02
				min. Earth dist.	13991 Aug 23 09:27	13° $\mathbb{M}$ 26'22	0.26953 AU
superior conj	13989 Mar 27 18:22	16° $\mathcal{Y}$ 17'37	-0°10'46	morning rise	13991 Aug 29 05:13	10° $\mathbb{M}$ 02'51	
minimum elong	13989 Mar 27 15:48	16° $\mathcal{Y}$ 09'43	0°10'49	desc. node	13991 Sep 08 02:37	6° $\mathbb{M}$ 18'24	
behind sun begin	13989 Mar 26 21:55	15° $\mathcal{Y}$ 14'24		direct	13991 Sep 12 20:41	5° $\mathbb{M}$ 50'51	
behind sun end	13989 Mar 28 09:42	17° $\mathcal{Y}$ 05'01		greatest brilliancy	13991 Sep 22 21:28	7° $\mathbb{M}$ 43'56	-4.9m

	13991 Oct 24 20:33	0°♄		asc. node	13994 Jun 15 11:11	12°♏20'24	
morning max el	13991 Nov 01 18:36	7°♄32'20	46°26'28		13994 Jun 30 05:43	0°♎	
	13991 Nov 23 09:53	0°♎			13994 Jul 26 00:14	0°♄	
	13991 Dec 20 04:53	0°♊			13994 Aug 22 15:43	0°♎	
asc. node	13991 Dec 30 04:07	11°♊32'10		evening max el	13994 Aug 24 19:35	2°♎11'04	46°40'56
	13992 Jan 14 21:16	0°♊			13994 Sep 27 21:27	0°♊	
	13992 Feb 08 23:12	0°♐		greatest brilliancy	13994 Oct 03 03:20	2°♊25'10	-4.8m
	13992 Mar 04 16:34	0°♋		desc. node	13994 Oct 05 11:47	3°♊14'38	
	13992 Mar 29 04:33	0°♑		retrograde	13994 Oct 14 01:35	4°♊37'50	
desc. node	13992 Apr 19 22:18	26°♑47'41			13994 Oct 29 12:37	30°♋♎	
	13992 Apr 22 12:30	0°♋		evening set	13994 Oct 30 01:12	29°♎42'21	
morning set	13992 Apr 29 18:00	8°♋57'05		min. Earth dist.	13994 Nov 03 09:20	27°♎06'38	0.27914 AU
	13992 May 16 16:45	0°♐		inferior conj	13994 Nov 04 06:12	26°♎34'24	-6°42'00
max. Earth dist.	13992 Jun 05 15:00	24°♐51'21	1.71823 AU	minimum elong	13994 Nov 03 19:33	26°♎50'51	6°38'59
				morning rise	13994 Nov 08 14:19	23°♎57'09	
superior conj	13992 Jun 08 10:26	28°♐22'04	-1°25'50	direct	13994 Nov 25 06:55	18°♎40'57	
minimum elong	13992 Jun 08 06:03	28°♐08'19	1°26'50	greatest brilliancy	13994 Dec 04 18:34	20°♎18'59	-4.8m
	13992 Jun 09 17:46	0°♌			13994 Dec 22 08:04	0°♊	
	13992 Jul 03 16:45	0°♏		morning max el	13995 Jan 13 04:55	18°♊48'45	45°47'43
evening rise	13992 Jul 18 09:50	18°♏26'12			13995 Jan 24 09:29	0°♊	
	13992 Jul 27 15:24	0°♎		asc. node	13995 Jan 26 14:26	2°♊17'14	
asc. node	13992 Aug 10 11:36	17°♎18'46			13995 Feb 20 23:58	0°♐	
	13992 Aug 20 15:26	0°♄			13995 Mar 18 22:42	0°♋	
	13992 Sep 13 18:34	0°♎			13995 Apr 13 02:31	0°♑	
	13992 Oct 08 03:10	0°♊			13995 May 07 19:13	0°♋	
	13992 Nov 01 21:28	0°♊		desc. node	13995 May 18 12:05	13°♋07'58	
	13992 Nov 27 08:38	0°♐			13995 Jun 01 04:11	0°♐	
desc. node	13992 Nov 30 05:47	3°♐19'08			13995 Jun 25 07:30	0°♌	
	13992 Dec 24 02:23	0°♋		morning set	13995 Jul 14 07:24	23°♌44'47	
evening max el	13993 Jan 16 16:03	24°♋14'18	45°55'52		13995 Jul 19 07:13	0°♏	
	13993 Jan 22 19:21	0°♑			13995 Aug 12 05:26	0°♎	
greatest brilliancy	13993 Feb 24 14:40	22°♑36'29	-4.8m				
retrograde	13993 Mar 06 14:39	24°♑25'40		superior conj	13995 Aug 23 02:24	13°♎38'12	-0°37'49
evening set	13993 Mar 21 10:19	20°♑08'43		minimum elong	13995 Aug 23 11:17	14°♎06'02	0°37'48
asc. node	13993 Mar 23 06:55	19°♑05'35		max. Earth dist.	13995 Aug 23 19:51	14°♎32'53	1.71516 AU
inferior conj	13993 Mar 27 18:35	16°♑20'24	1°07'07		13995 Sep 05 03:50	0°♄	
minimum elong	13993 Mar 27 16:04	16°♑24'21	1°06'08	asc. node	13995 Sep 08 02:05	3°♄39'55	
min. Earth dist.	13993 Mar 27 22:21	16°♑14'30	0.28205 AU		13995 Sep 29 03:32	0°♎	
morning rise	13993 Apr 02 21:32	12°♑39'05		evening rise	13995 Oct 01 13:14	3°♎00'02	
direct	13993 Apr 17 23:46	8°♑11'36			13995 Oct 23 05:39	0°♊	
greatest brilliancy	13993 Apr 28 12:17	10°♑14'58	-4.8m		13995 Nov 16 12:00	0°♊	
	13993 May 27 06:48	0°♋			13995 Dec 11 01:09	0°♐	
morning max el	13993 Jun 06 22:03	10°♋07'53	46°33'40	desc. node	13995 Dec 28 17:37	21°♐19'17	
	13993 Jun 25 20:17	0°♐			13996 Jan 05 00:05	0°♋	
desc. node	13993 Jul 13 09:53	19°♐46'27			13996 Jan 30 12:19	0°♑	
	13993 Jul 22 05:20	0°♌			13996 Feb 25 20:52	0°♋	
	13993 Aug 16 10:13	0°♏			13996 Mar 25 00:40	0°♐	
	13993 Sep 10 02:26	0°♎		evening max el	13996 Mar 28 22:22	3°♐52'09	46°09'34
	13993 Oct 04 12:58	0°♄		asc. node	13996 Apr 19 16:08	23°♐02'53	
	13993 Oct 28 20:53	0°♎			13996 Apr 30 04:46	0°♌	
asc. node	13993 Nov 03 05:06	6°♎36'03		greatest brilliancy	13996 May 07 22:08	3°♌30'52	-4.8m
	13993 Nov 22 03:18	0°♊		retrograde	13996 May 17 12:47	5°♌15'03	
morning set	13993 Dec 08 18:54	20°♊36'37			13996 Jun 02 23:37	30°♋♐	
	13993 Dec 16 08:57	0°♊		evening set	13996 Jun 04 06:29	29°♐14'28	
	13994 Jan 09 14:54	0°♐		inferior conj	13996 Jun 07 08:43	27°♐20'32	8°56'32
				minimum elong	13996 Jun 07 03:55	27°♐27'59	8°55'09
superior conj	13994 Jan 14 16:35	6°♐15'53	1°16'48	min. Earth dist.	13996 Jun 07 14:27	27°♐11'38	0.27690 AU
minimum elong	13994 Jan 15 00:37	6°♐40'42	1°17'32	morning rise	13996 Jun 10 01:17	25°♐40'51	
max. Earth dist.	13994 Jan 16 05:38	8°♐10'16	1.73072 AU	direct	13996 Jun 28 06:37	19°♐18'49	
	13994 Feb 02 22:11	0°♋		greatest brilliancy	13996 Jul 08 07:57	21°♐13'00	-4.9m
evening rise	13994 Feb 21 05:35	22°♋32'34			13996 Jul 23 21:52	0°♌	
desc. node	13994 Feb 22 19:02	24°♋27'44		desc. node	13996 Aug 09 19:34	14°♌20'15	
	13994 Feb 27 07:05	0°♑		morning max el	13996 Aug 17 18:58	22°♌06'53	46°57'31
	13994 Mar 23 17:01	0°♋			13996 Aug 25 10:51	0°♏	
	13994 Apr 17 03:24	0°♐			13996 Sep 21 15:03	0°♎	
	13994 May 11 14:49	0°♌			13996 Oct 17 08:47	0°♄	
	13994 Jun 05 05:53	0°♏			13996 Nov 11 12:01	0°♎	

asc. node	13996 Nov 30 18:09	23° $\mathbb{M}$ 15'56		asc. node	13999 May 18 01:58	21° $\mathfrak{S}$ 31'40	
	13996 Dec 06 07:16	0° $\mathfrak{A}$			13999 May 25 19:49	0° $\mathcal{Q}$	
	13996 Dec 30 21:14	0° $\mathfrak{Z}$		evening max el	13999 Jun 10 22:49	16° $\mathcal{Q}$ 48'07	46°38'02
	13997 Jan 24 07:49	0° $\approx$			13999 Jun 25 00:27	0° $\mathfrak{M}$	
morning set	13997 Feb 15 16:04	27° $\approx$ 30'33		greatest brilliancy	13999 Jul 21 01:29	17° $\mathfrak{M}$ 06'10	-4.9m
	13997 Feb 17 16:34	0° $\mathfrak{H}$		retrograde	13999 Jul 31 00:36	18° $\mathfrak{M}$ 57'20	
	13997 Mar 14 00:16	0° $\mathfrak{Y}$		evening set	13999 Aug 15 09:33	14° $\mathfrak{M}$ 19'28	
desc. node	13997 Mar 22 09:42	10° $\mathfrak{Y}$ 21'54		inferior conj	13999 Aug 20 15:32	11° $\mathfrak{M}$ 12'49	4°24'44
max. Earth dist.	13997 Mar 23 19:47	12° $\mathfrak{Y}$ 07'13	1.72902 AU	minimum elong	13999 Aug 21 00:48	10° $\mathfrak{M}$ 58'40	4°21'36
				min. Earth dist.	13999 Aug 20 23:06	11° $\mathfrak{M}$ 01'17	0.26960 AU
superior conj	13997 Mar 25 09:31	14° $\mathfrak{Y}$ 03'47	-0°07'16	morning rise	13999 Aug 26 16:09	7° $\mathfrak{M}$ 41'15	
minimum elong	13997 Mar 25 07:47	13° $\mathfrak{Y}$ 58'26	0°07'20	desc. node	13999 Sep 07 04:44	3° $\mathfrak{M}$ 39'32	
behind sun begin	13997 Mar 24 10:17	12° $\mathfrak{Y}$ 51'59		direct	13999 Sep 10 09:52	3° $\mathfrak{M}$ 27'03	
behind sun end	13997 Mar 26 05:17	15° $\mathfrak{Y}$ 04'53		greatest brilliancy	13999 Sep 20 10:20	5° $\mathfrak{M}$ 19'46	-4.9m
	13997 Apr 07 06:47	0° $\mathfrak{B}$			13999 Oct 24 22:38	0° $\mathfrak{L}$	
	13997 May 01 11:37	0° $\mathbb{I}$		morning max el	13999 Oct 30 07:56	5° $\mathfrak{L}$ 11'19	46°27'56
evening rise	13997 May 02 22:08	1° $\mathbb{I}$ 47'10			13999 Nov 23 02:40	0° $\mathbb{M}$	
	13997 May 25 14:52	0° $\mathfrak{S}$			13999 Dec 19 18:34	0° $\mathfrak{A}$	
	13997 Jun 18 17:44	0° $\mathcal{Q}$		asc. node	13999 Dec 29 06:00	10° $\mathfrak{A}$ 59'44	
asc. node	13997 Jul 12 23:39	0° $\mathfrak{M}$ 04'16			14000 Jan 14 09:28	0° $\mathfrak{Z}$	
	13997 Jul 12 22:16	0° $\mathfrak{M}$			14000 Feb 08 10:34	0° $\approx$	
	13997 Aug 06 07:16	0° $\mathfrak{L}$			14000 Mar 04 03:29	0° $\mathfrak{H}$	
	13997 Aug 31 00:55	0° $\mathbb{M}$			14000 Mar 28 15:14	0° $\mathfrak{Y}$	
	13997 Sep 25 11:27	0° $\mathfrak{A}$		desc. node	14000 Apr 19 00:10	26° $\mathfrak{Y}$ 20'47	
	13997 Oct 22 10:46	0° $\mathfrak{Z}$		morning set	14000 Apr 21 23:04	0° $\mathfrak{B}$	
desc. node	13997 Nov 01 21:16	10° $\mathfrak{Z}$ 45'02			14000 Apr 27 07:28	6° $\mathfrak{B}$ 37'29	
evening max el	13997 Nov 04 03:09	12° $\mathfrak{Z}$ 58'18	46°14'39		14000 May 16 03:16	0° $\mathbb{I}$	
	13997 Nov 23 04:10	0° $\approx$		max. Earth dist.	14000 Jun 02 23:16	22° $\mathbb{I}$ 14'26	1.71854 AU
greatest brilliancy	13997 Dec 13 11:18	12° $\approx$ 06'47	-4.8m				
retrograde	13997 Dec 23 15:59	14° $\approx$ 00'39		superior conj	14000 Jun 05 23:12	25° $\mathbb{I}$ 59'08	-1°25'01
evening set	13998 Jan 10 11:28	8° $\approx$ 00'15		minimum elong	14000 Jun 05 17:53	25° $\mathbb{I}$ 42'32	1°26'01
inferior conj	13998 Jan 14 02:55	5° $\approx$ 45'10	-7°53'41		14000 Jun 09 04:17	0° $\mathfrak{S}$	
minimum elong	13998 Jan 14 11:26	5° $\approx$ 31'51	7°51'36		14000 Jul 03 03:18	0° $\mathcal{Q}$	
min. Earth dist.	13998 Jan 14 06:10	5° $\approx$ 40'06	0.28842 AU	evening rise	14000 Jul 15 21:30	15° $\mathcal{Q}$ 59'10	
morning rise	13998 Jan 18 11:26	3° $\approx$ 04'58			14000 Jul 27 02:02	0° $\mathfrak{M}$	
	13998 Jan 24 10:04	30° $\mathfrak{K}$ $\mathfrak{Z}$		asc. node	14000 Aug 09 13:28	16° $\mathfrak{M}$ 51'09	
direct	13998 Feb 04 11:29	27° $\mathfrak{Z}$ 33'16			14000 Aug 20 02:14	0° $\mathfrak{L}$	
greatest brilliancy	13998 Feb 15 01:50	29° $\mathfrak{Z}$ 36'31	-4.8m		14000 Sep 13 05:35	0° $\mathbb{M}$	
	13998 Feb 16 02:17	0° $\approx$			14000 Oct 07 14:35	0° $\mathfrak{A}$	
asc. node	13998 Feb 22 23:50	3° $\approx$ 22'26			14000 Nov 01 09:32	0° $\mathfrak{Z}$	
morning max el	13998 Mar 25 17:00	28° $\approx$ 20'07	45°51'34		14000 Nov 26 22:00	0° $\approx$	
	13998 Mar 27 09:39	0° $\mathfrak{H}$		desc. node	14000 Nov 29 07:37	2° $\approx$ 45'30	
	13998 Apr 24 15:15	0° $\mathfrak{Y}$			14000 Dec 23 18:40	0° $\mathfrak{H}$	
	13998 May 20 17:07	0° $\mathfrak{B}$		evening max el	14001 Jan 14 06:23	22° $\mathfrak{H}$ 00'04	45°55'59
	13998 Jun 14 19:46	0° $\mathbb{I}$			14001 Jan 22 21:06	0° $\mathfrak{Y}$	
desc. node	13998 Jun 15 00:36	0° $\mathbb{I}$ 14'37		greatest brilliancy	14001 Feb 22 06:33	20° $\mathfrak{Y}$ 24'22	-4.8m
	13998 Jul 09 09:20	0° $\mathfrak{S}$		retrograde	14001 Mar 04 05:05	22° $\mathfrak{Y}$ 12'33	
	13998 Aug 02 15:20	0° $\mathcal{Q}$		evening set	14001 Mar 19 01:55	17° $\mathfrak{Y}$ 54'54	
	13998 Aug 26 17:33	0° $\mathfrak{M}$		asc. node	14001 Mar 22 08:59	16° $\mathfrak{Y}$ 00'22	
	13998 Sep 19 18:32	0° $\mathfrak{L}$		inferior conj	14001 Mar 25 09:56	14° $\mathfrak{Y}$ 07'04	0°45'31
morning set	13998 Sep 26 04:09	7° $\mathfrak{L}$ 59'11		minimum elong	14001 Mar 25 08:13	14° $\mathfrak{Y}$ 09'46	0°44'51
asc. node	13998 Oct 05 16:48	19° $\mathfrak{L}$ 52'28		min. Earth dist.	14001 Mar 25 14:33	13° $\mathfrak{Y}$ 59'49	0.28228 AU
	13998 Oct 13 19:36	0° $\mathbb{M}$		morning rise	14001 Mar 31 14:09	10° $\mathfrak{Y}$ 23'39	
				direct	14001 Apr 15 14:45	5° $\mathfrak{Y}$ 57'55	
superior conj	13998 Nov 03 20:55	26° $\mathbb{M}$ 14'13	1°03'20	greatest brilliancy	14001 Apr 26 05:01	8° $\mathfrak{Y}$ 02'17	-4.8m
minimum elong	13998 Nov 03 10:35	25° $\mathbb{M}$ 42'02	1°03'48		14001 May 27 09:01	0° $\mathfrak{B}$	
max. Earth dist.	13998 Nov 06 01:12	28° $\mathbb{M}$ 56'58	1.72301 AU	morning max el	14001 Jun 04 11:45	7° $\mathfrak{B}$ 48'35	46°32'15
	13998 Nov 06 21:27	0° $\mathfrak{A}$			14001 Jun 25 12:57	0° $\mathbb{I}$	
	13998 Dec 01 00:59	0° $\mathfrak{Z}$		desc. node	14001 Jul 12 11:44	19° $\mathbb{I}$ 09'59	
evening rise	13998 Dec 11 04:41	12° $\mathfrak{Z}$ 34'33			14001 Jul 21 19:06	0° $\mathfrak{S}$	
	13998 Dec 25 07:32	0° $\approx$			14001 Aug 15 22:38	0° $\mathcal{Q}$	
	13999 Jan 18 18:25	0° $\mathfrak{H}$			14001 Sep 09 14:05	0° $\mathfrak{M}$	
desc. node	13999 Jan 25 06:43	7° $\mathfrak{H}$ 56'45			14001 Oct 04 00:09	0° $\mathfrak{L}$	
	13999 Feb 12 10:16	0° $\mathfrak{Y}$			14001 Oct 28 07:44	0° $\mathbb{M}$	
	13999 Mar 09 07:16	0° $\mathfrak{B}$		asc. node	14001 Nov 02 06:53	6° $\mathbb{M}$ 08'10	
	13999 Apr 03 10:40	0° $\mathbb{I}$			14001 Nov 21 13:56	0° $\mathfrak{A}$	
	13999 Apr 29 01:45	0° $\mathfrak{S}$		morning set	14001 Dec 06 11:01	18° $\mathfrak{A}$ 25'20	



	14001 Dec 15 19:26	0°☾	evening set	14004 Jun 01 16:42	26°♊58'58	
	14002 Jan 09 01:20	0°♊	inferior conj	14004 Jun 04 22:37	24°♊59'28	8°50'46
			minimum elong	14004 Jun 04 17:00	25°♊08'11	8°49'17
superior conj	14002 Jan 12 09:24	4°♊07'23 1°18'15	min. Earth dist.	14004 Jun 05 03:16	24°♊52'14	0.27715 AU
minimum elong	14002 Jan 12 16:58	4°♊30'46 1°19'02	morning rise	14004 Jun 07 17:14	23°♊16'44	
max. Earth dist.	14002 Jan 13 21:16	5°♊58'10 1.73057 AU	direct	14004 Jun 25 21:13	16°♊57'21	
	14002 Feb 02 08:38	0°♋	greatest brilliancy	14004 Jul 05 21:30	18°♊51'04	-4.9m
evening rise	14002 Feb 18 21:31	20°♋21'37		14004 Jul 24 14:56	0°♋	
desc. node	14002 Feb 21 20:54	24°♋01'07	desc. node	14004 Aug 08 21:41	13°♋24'09	
	14002 Feb 26 17:39	0°♌	morning max el	14004 Aug 15 10:17	19°♋48'23	46°57'34
	14002 Mar 23 03:48	0°♍		14004 Aug 25 06:33	0°♌	
	14002 Apr 16 14:29	0°♎		14004 Sep 21 06:17	0°♍	
	14002 May 11 02:23	0°♏		14004 Oct 16 22:03	0°♎	
	14002 Jun 04 18:09	0°♐		14004 Nov 11 00:11	0°♏	
asc. node	14002 Jun 14 12:59	11°♐47'48	asc. node	14004 Nov 29 20:01	22°♏46'19	
	14002 Jun 29 19:09	0°♑		14004 Dec 05 18:44	0°♐	
	14002 Jul 25 15:54	0°♒		14004 Dec 30 08:17	0°♑	
evening max el	14002 Aug 22 08:51	29°♒48'46 46°41'34		14005 Jan 23 18:38	0°♒	
	14002 Aug 22 13:19	0°♓	morning set	14005 Feb 13 09:04	25°♒22'07	
	14002 Sep 30 10:34	0°♈		14005 Feb 17 03:15	0°♋	
greatest brilliancy	14002 Sep 30 18:16	0°♈07'33 -4.8m		14005 Mar 13 10:56	0°♌	
desc. node	14002 Oct 04 13:46	1°♈22'31	desc. node	14005 Mar 21 11:33	9°♌54'36	
retrograde	14002 Oct 11 16:10	2°♈20'29	max. Earth dist.	14005 Mar 21 15:17	10°♌06'08	1.72928 AU
	14002 Oct 22 11:44	30°♉♊				
evening set	14002 Oct 27 12:21	27°♊29'50	superior conj	14005 Mar 23 00:40	11°♌49'14	-0°03'47
min. Earth dist.	14002 Oct 31 23:58	24°♊49'36 0.27861 AU	minimum elong	14005 Mar 22 23:45	11°♌46'26	0°03'51
inferior conj	14002 Nov 01 20:35	24°♊17'48 -6°27'08	behind sun begin	14005 Mar 22 00:26	10°♌34'23	
minimum elong	14002 Nov 01 09:51	24°♊34'21 6°24'01	behind sun end	14005 Mar 23 23:05	12°♌58'30	
morning rise	14002 Nov 06 07:46	21°♊36'20		14005 Apr 06 17:30	0°♍	
direct	14002 Nov 22 20:18	16°♊24'48	evening rise	14005 Apr 30 12:23	29°♍28'45	
greatest brilliancy	14002 Dec 02 09:01	18°♊03'36 -4.8m		14005 Apr 30 22:27	0°♎	
	14002 Dec 22 22:35	0°♏		14005 May 25 01:53	0°♏	
morning max el	14003 Jan 10 19:00	16°♏32'51 45°48'31		14005 Jun 18 04:59	0°♐	
	14003 Jan 24 04:01	0°♑	asc. node	14005 Jul 12 01:36	29°♐34'28	
asc. node	14003 Jan 25 16:26	1°♑35'13		14005 Jul 12 09:52	0°♑	
	14003 Feb 20 14:17	0°♒		14005 Aug 05 19:24	0°♒	
	14003 Mar 18 11:17	0°♋		14005 Aug 30 13:56	0°♓	
	14003 Apr 12 14:14	0°♌		14005 Sep 25 02:05	0°♈	
	14003 May 07 06:28	0°♍		14005 Oct 22 05:20	0°♉	
desc. node	14003 May 17 13:51	12°♍39'12	desc. node	14005 Oct 31 23:10	9°♍56'36	
	14003 May 31 15:10	0°♎	evening max el	14005 Nov 01 19:13	10°♍45'59	46°15'46
	14003 Jun 24 18:20	0°♏		14005 Nov 23 17:04	0°♎	
morning set	14003 Jul 11 19:07	21°♏17'22	greatest brilliancy	14005 Dec 11 02:08	9°♎54'30	-4.8m
	14003 Jul 18 18:00	0°♐	retrograde	14005 Dec 21 08:10	11°♎49'05	
	14003 Aug 11 16:11	0°♑	evening set	14006 Jan 08 05:50	5°♎44'59	
			inferior conj	14006 Jan 11 18:44	3°♎33'32	-8°02'41
superior conj	14003 Aug 20 14:39	11°♑12'32 -0°41'14	minimum elong	14006 Jan 12 02:45	3°♎20'58	8°00'45
minimum elong	14003 Aug 21 00:10	11°♑42'23 0°41'15	min. Earth dist.	14006 Jan 11 20:41	3°♎30'29	0.28841 AU
max. Earth dist.	14003 Aug 21 04:13	11°♑55'04 1.71503 AU	morning rise	14006 Jan 15 23:45	0°♎58'29	
	14003 Sep 04 14:33	0°♒		14006 Jan 17 16:31	30°♏♊	
asc. node	14003 Sep 07 04:01	3°♒12'27	direct	14006 Feb 02 03:49	25°♏22'11	
	14003 Sep 28 14:13	0°♓	greatest brilliancy	14006 Feb 12 15:46	27°♏23'24	-4.7m
evening rise	14003 Sep 29 03:27	0°♓41'17		14006 Feb 18 11:40	0°♓	
	14003 Oct 22 16:25	0°♈	asc. node	14006 Feb 22 01:54	2°♓01'33	
	14003 Nov 15 22:57	0°♉	morning max el	14006 Mar 23 08:41	26°♓07'43	45°50'28
	14003 Dec 10 12:29	0°♊		14006 Mar 27 06:33	0°♋	
desc. node	14003 Dec 27 19:27	20°♊49'40		14006 Apr 24 06:32	0°♌	
	14004 Jan 04 12:04	0°♋		14006 May 20 06:22	0°♍	
	14004 Jan 30 01:28	0°♌	desc. node	14006 Jun 14 02:29	29°♍43'11	
	14004 Feb 25 12:20	0°♍		14006 Jun 14 08:02	0°♎	
	14004 Mar 24 22:10	0°♏		14006 Jul 08 21:03	0°♏	
evening max el	14004 Mar 26 13:01	1°♏35'30 46°08'46		14006 Aug 02 02:42	0°♐	
asc. node	14004 Apr 18 18:07	21°♏50'22		14006 Aug 26 04:42	0°♑	
	14004 May 02 11:38	0°♑		14006 Sep 19 05:32	0°♒	
greatest brilliancy	14004 May 05 10:29	1°♑09'15 -4.8m	morning set	14006 Sep 23 17:41	5°♒37'25	
retrograde	14004 May 15 03:04	2°♑54'47	asc. node	14006 Oct 04 18:32	19°♒23'43	
	14004 May 27 03:06	30°♒♊		14006 Oct 13 06:31	0°♓	

superior conj	14006 Nov 01 11:56	23° $\mathbb{M}$ 57'42	1°00'54	greatest brilliancy	14009 Apr 23 21:52	5° $\Upsilon$ 49'05	-4.8m
minimum elong	14006 Nov 01 01:33	23° $\mathbb{M}$ 25'24	1°01'18		14009 May 27 10:11	0° $\mathcal{B}$	
max. Earth dist.	14006 Nov 03 17:32	26° $\mathbb{M}$ 44'36	1.72266 AU	morning max el	14009 Jun 02 02:09	5° $\mathcal{B}$ 30'17	46°30'47
	14006 Nov 06 08:18	0° $\mathcal{A}$			14009 Jun 25 05:38	0° $\mathbb{I}$	
	14006 Nov 30 11:49	0° $\mathcal{Z}$		desc. node	14009 Jul 11 13:48	18° $\mathbb{I}$ 33'17	
evening rise	14006 Dec 08 20:41	10° $\mathcal{Z}$ 21'59			14009 Jul 21 09:07	0° $\mathcal{G}$	
	14006 Dec 24 18:25	0° $\approx$			14009 Aug 15 11:25	0° $\mathcal{Q}$	
	14007 Jan 18 05:29	0° $\mathcal{H}$			14009 Sep 09 02:09	0° $\mathbb{P}$	
desc. node	14007 Jan 24 08:40	7° $\mathcal{H}$ 28'44			14009 Oct 03 11:44	0° $\mathcal{L}$	
	14007 Feb 11 21:43	0° $\Upsilon$			14009 Oct 27 18:58	0° $\mathbb{M}$	
	14007 Mar 08 19:19	0° $\mathcal{B}$		asc. node	14009 Nov 01 08:43	5° $\mathbb{M}$ 39'15	
	14007 Apr 02 23:41	0° $\mathbb{I}$			14009 Nov 21 00:54	0° $\mathcal{A}$	
	14007 Apr 28 16:29	0° $\mathcal{G}$		morning set	14009 Dec 04 02:47	16° $\mathcal{A}$ 11'49	
asc. node	14007 May 17 03:48	20° $\mathcal{G}$ 49'43			14009 Dec 15 06:16	0° $\mathcal{Z}$	
	14007 May 25 14:22	0° $\mathcal{Q}$			14010 Jan 08 12:06	0° $\approx$	
evening max el	14007 Jun 08 12:08	14° $\mathcal{Q}$ 24'22	46°37'08				
	14007 Jun 25 09:17	0° $\mathbb{P}$		superior conj	14010 Jan 10 02:02	1° $\approx$ 57'12	1°19'37
greatest brilliancy	14007 Jul 18 16:01	14° $\mathbb{P}$ 42'26	-4.9m	minimum elong	14010 Jan 10 09:06	2° $\approx$ 19'03	1°20'26
retrograde	14007 Jul 28 13:01	16° $\mathbb{P}$ 31'35		max. Earth dist.	14010 Jan 11 13:42	3° $\approx$ 47'23	1.73044 AU
evening set	14007 Aug 13 01:21	11° $\mathbb{P}$ 50'01			14010 Feb 01 19:27	0° $\mathcal{H}$	
inferior conj	14007 Aug 18 04:15	8° $\mathbb{P}$ 47'28	4°45'53	evening rise	14010 Feb 16 13:28	18° $\mathcal{H}$ 09'41	
minimum elong	14007 Aug 18 14:01	8° $\mathbb{P}$ 32'31	4°42'40	desc. node	14010 Feb 20 22:44	23° $\mathcal{H}$ 33'17	
min. Earth dist.	14007 Aug 18 12:56	8° $\mathbb{P}$ 34'09	0.26968 AU		14010 Feb 26 04:34	0° $\Upsilon$	
morning rise	14007 Aug 24 02:42	5° $\mathbb{P}$ 18'16			14010 Mar 22 14:54	0° $\mathcal{B}$	
desc. node	14007 Sep 06 06:43	1° $\mathbb{P}$ 04'41			14010 Apr 16 01:52	0° $\mathbb{I}$	
direct	14007 Sep 07 22:18	1° $\mathbb{P}$ 01'25			14010 May 10 14:13	0° $\mathcal{G}$	
greatest brilliancy	14007 Sep 17 23:33	2° $\mathbb{P}$ 54'21	-4.9m		14010 Jun 04 06:44	0° $\mathcal{Q}$	
	14007 Oct 24 23:56	0° $\mathcal{L}$		asc. node	14010 Jun 13 14:59	11° $\mathcal{Q}$ 14'56	
morning max el	14007 Oct 27 20:32	2° $\mathcal{L}$ 46'54	46°29'26		14010 Jun 29 08:59	0° $\mathbb{P}$	
	14007 Nov 22 19:37	0° $\mathbb{M}$			14010 Jul 25 08:12	0° $\mathcal{L}$	
	14007 Dec 19 08:35	0° $\mathcal{A}$		evening max el	14010 Aug 19 22:47	27° $\mathcal{L}$ 26'59	46°42'04
asc. node	14007 Dec 28 07:56	10° $\mathcal{A}$ 26'18			14010 Aug 22 12:19	0° $\mathbb{M}$	
	14008 Jan 13 22:01	0° $\mathcal{Z}$		greatest brilliancy	14010 Sep 28 08:28	27° $\mathbb{M}$ 47'09	-4.8m
	14008 Feb 07 22:19	0° $\approx$		desc. node	14010 Oct 03 15:41	29° $\mathbb{M}$ 23'54	
	14008 Mar 03 14:45	0° $\mathcal{H}$			14010 Oct 08 09:39	0° $\mathcal{A}$	
	14008 Mar 28 02:16	0° $\Upsilon$		retrograde	14010 Oct 09 06:56	0° $\mathcal{A}$ 00'57	
desc. node	14008 Apr 18 01:55	25° $\Upsilon$ 52'21			14010 Oct 10 04:08	30° $\mathcal{R}$ $\mathbb{M}$	
	14008 Apr 21 10:00	0° $\mathcal{B}$		evening set	14010 Oct 24 23:17	25° $\mathbb{M}$ 14'49	
morning set	14008 Apr 24 21:05	4° $\mathcal{B}$ 17'10		min. Earth dist.	14010 Oct 29 14:03	22° $\mathbb{M}$ 30'34	0.27807 AU
	14008 May 15 14:10	0° $\mathbb{I}$		inferior conj	14010 Oct 30 10:37	21° $\mathbb{M}$ 58'57	-6°11'24
max. Earth dist.	14008 May 31 08:11	19° $\mathbb{I}$ 38'19	1.71894 AU	minimum elong	14010 Oct 29 23:53	22° $\mathbb{M}$ 15'26	6°08'12
				morning rise	14010 Nov 04 00:56	19° $\mathbb{M}$ 13'25	
superior conj	14008 Jun 03 11:54	23° $\mathbb{I}$ 34'44	-1°24'03	direct	14010 Nov 20 09:42	14° $\mathbb{M}$ 06'28	
minimum elong	14008 Jun 03 05:44	23° $\mathbb{I}$ 15'29	1°25'01	greatest brilliancy	14010 Nov 29 22:44	15° $\mathbb{M}$ 45'48	-4.8m
	14008 Jun 08 15:13	0° $\mathcal{G}$			14010 Dec 23 09:54	0° $\mathcal{A}$	
	14008 Jul 02 14:18	0° $\mathcal{Q}$		morning max el	14011 Jan 08 09:41	14° $\mathcal{A}$ 17'31	45°49'23
evening rise	14008 Jul 13 08:52	13° $\mathcal{Q}$ 29'45			14011 Jan 23 22:23	0° $\mathcal{Z}$	
	14008 Jul 26 13:09	0° $\mathbb{P}$		asc. node	14011 Jan 24 18:30	0° $\mathcal{Z}$ 53'01	
asc. node	14008 Aug 08 15:20	16° $\mathbb{P}$ 22'05			14011 Feb 20 04:41	0° $\approx$	
	14008 Aug 19 13:29	0° $\mathcal{L}$			14011 Mar 18 00:01	0° $\mathcal{H}$	
	14008 Sep 12 17:04	0° $\mathbb{M}$			14011 Apr 12 02:06	0° $\Upsilon$	
	14008 Oct 07 02:27	0° $\mathcal{A}$			14011 May 06 17:50	0° $\mathcal{B}$	
	14008 Oct 31 22:07	0° $\mathcal{Z}$		desc. node	14011 May 16 15:44	12° $\mathcal{B}$ 10'24	
	14008 Nov 26 11:59	0° $\approx$			14011 May 31 02:15	0° $\mathbb{I}$	
desc. node	14008 Nov 28 09:32	2° $\approx$ 10'30			14011 Jun 24 05:16	0° $\mathcal{G}$	
	14008 Dec 23 11:46	0° $\mathcal{H}$		morning set	14011 Jul 09 07:10	18° $\mathcal{G}$ 50'48	
evening max el	14009 Jan 11 20:25	19° $\mathcal{H}$ 43'52	45°56'12		14011 Jul 18 04:51	0° $\mathcal{Q}$	
	14009 Jan 23 00:59	0° $\Upsilon$			14011 Aug 11 03:00	0° $\mathbb{P}$	
greatest brilliancy	14009 Feb 19 22:08	18° $\Upsilon$ 10'51	-4.8m				
retrograde	14009 Mar 01 19:47	19° $\Upsilon$ 58'42		superior conj	14011 Aug 18 02:54	8° $\mathbb{P}$ 46'33	-0°44'34
evening set	14009 Mar 16 17:41	15° $\Upsilon$ 39'48		minimum elong	14011 Aug 18 13:00	9° $\mathbb{P}$ 18'11	0°44'37
asc. node	14009 Mar 21 10:51	12° $\Upsilon$ 53'00		max. Earth dist.	14011 Aug 18 15:38	9° $\mathbb{P}$ 26'26	1.71496 AU
inferior conj	14009 Mar 23 01:18	11° $\Upsilon$ 52'54	0°24'00		14011 Sep 04 01:21	0° $\mathcal{L}$	
minimum elong	14009 Mar 23 00:24	11° $\Upsilon$ 54'19	0°23'36	asc. node	14011 Sep 06 05:46	2° $\mathcal{L}$ 44'05	
min. Earth dist.	14009 Mar 23 06:43	11° $\Upsilon$ 44'23	0.28250 AU	evening rise	14011 Sep 26 17:25	28° $\mathcal{L}$ 21'15	
morning rise	14009 Mar 29 06:39	8° $\Upsilon$ 07'49			14011 Sep 28 01:04	0° $\mathbb{M}$	
direct	14009 Apr 13 05:39	3° $\Upsilon$ 43'17			14011 Oct 22 03:21	0° $\mathcal{A}$	

	14011 Nov 15 10:06	0° $\text{Z}$		morning max el	14014 Mar 20 23:24	23° $\approx$ 53'23	45°49'27
	14011 Dec 09 23:59	0° $\approx$			14014 Mar 27 02:33	0° $\text{H}$	
desc. node	14011 Dec 26 21:26	20° $\approx$ 20'00			14014 Apr 23 21:22	0° $\text{Y}$	
	14012 Jan 04 00:14	0° $\text{H}$			14014 May 19 19:16	0° $\text{B}$	
	14012 Jan 29 14:50	0° $\text{Y}$		desc. node	14014 Jun 13 04:25	29° $\text{B}$ 12'46	
	14012 Feb 25 04:11	0° $\text{B}$			14014 Jun 13 20:00	0° $\text{II}$	
evening max el	14012 Mar 24 04:27	29° $\text{B}$ 20'29	46°07'56		14014 Jul 08 08:29	0° $\text{E}$	
	14012 Mar 24 20:40	0° $\text{II}$			14014 Aug 01 13:46	0° $\text{O}$	
asc. node	14012 Apr 17 20:04	20° $\text{II}$ 35'20			14014 Aug 25 15:31	0° $\text{M}$	
greatest brilliancy	14012 May 02 23:04	28° $\text{II}$ 47'54	-4.8m		14014 Sep 18 16:10	0° $\text{E}$	
	14012 May 07 06:42	0° $\text{E}$		morning set	14014 Sep 21 07:34	3° $\text{E}$ 17'54	
retrograde	14012 May 12 17:14	0° $\text{E}$ 34'16		asc. node	14014 Oct 03 20:20	18° $\text{E}$ 56'28	
	14012 May 18 00:04	30° $\text{R}$ $\text{II}$			14014 Oct 12 17:01	0° $\text{M}$	
evening set	14012 May 30 02:46	24° $\text{II}$ 43'56					
inferior conj	14012 Jun 02 12:29	22° $\text{II}$ 38'30	8°44'15	superior conj	14014 Oct 30 03:16	21° $\text{M}$ 43'32	0°58'23
minimum elong	14012 Jun 02 06:06	22° $\text{II}$ 48'26	8°42'37	minimum elong	14014 Oct 29 16:54	21° $\text{M}$ 11'17	0°58'44
min. Earth dist.	14012 Jun 02 16:06	22° $\text{II}$ 32'53	0.27732 AU	max. Earth dist.	14014 Nov 01 09:25	24° $\text{M}$ 32'10	1.72232 AU
morning rise	14012 Jun 05 09:24	20° $\text{II}$ 52'15			14014 Nov 05 18:44	0° $\text{X}$	
direct	14012 Jun 23 11:52	14° $\text{II}$ 36'20			14014 Nov 29 22:14	0° $\text{Z}$	
greatest brilliancy	14012 Jul 03 10:43	16° $\text{II}$ 29'00	-4.9m	evening rise	14014 Dec 06 12:53	8° $\text{Z}$ 11'12	
	14012 Jul 25 03:28	0° $\text{E}$			14014 Dec 24 04:57	0° $\approx$	
desc. node	14012 Aug 07 23:36	12° $\text{E}$ 29'09			14015 Jan 17 16:15	0° $\text{H}$	
morning max el	14012 Aug 13 01:03	17° $\text{E}$ 29'02	46°57'34	desc. node	14015 Jan 23 10:27	7° $\text{H}$ 01'09	
	14012 Aug 25 01:30	0° $\text{O}$			14015 Feb 11 08:52	0° $\text{Y}$	
	14012 Sep 20 21:08	0° $\text{M}$			14015 Mar 08 07:05	0° $\text{B}$	
	14012 Oct 16 11:06	0° $\text{E}$			14015 Apr 02 12:27	0° $\text{II}$	
	14012 Nov 10 12:13	0° $\text{M}$			14015 Apr 28 07:04	0° $\text{E}$	
asc. node	14012 Nov 28 21:58	22° $\text{M}$ 17'05		asc. node	14015 May 16 05:51	20° $\text{E}$ 08'48	
	14012 Dec 05 06:10	0° $\text{X}$			14015 May 25 09:03	0° $\text{O}$	
	14012 Dec 29 19:18	0° $\text{Z}$		evening max el	14015 Jun 06 00:30	11° $\text{O}$ 59'18	46°36'12
	14013 Jan 23 05:23	0° $\approx$			14015 Jun 25 20:41	0° $\text{M}$	
morning set	14013 Feb 11 01:47	23° $\approx$ 13'04		greatest brilliancy	14015 Jul 16 06:50	12° $\text{M}$ 19'57	-4.9m
	14013 Feb 16 13:52	0° $\text{H}$		retrograde	14015 Jul 26 01:13	14° $\text{M}$ 07'08	
	14013 Mar 12 21:30	0° $\text{Y}$		evening set	14015 Aug 10 17:15	9° $\text{M}$ 21'21	
max. Earth dist.	14013 Mar 19 09:31	8° $\text{Y}$ 01'30	1.72951 AU	inferior conj	14015 Aug 15 16:59	6° $\text{M}$ 23'21	5°06'36
				minimum elong	14015 Aug 16 03:11	6° $\text{M}$ 07'44	5°03'18
superior conj	14013 Mar 20 15:41	9° $\text{Y}$ 34'40	-0°00'15	min. Earth dist.	14015 Aug 16 03:05	6° $\text{M}$ 07'53	0.26976 AU
minimum elong	14013 Mar 20 15:35	9° $\text{Y}$ 34'21	0°00'18	morning rise	14015 Aug 21 13:00	2° $\text{M}$ 56'58	
behind sun begin	14013 Mar 19 15:52	8° $\text{Y}$ 21'07			14015 Aug 28 03:31	30° $\text{R}$ $\text{O}$	
behind sun end	14013 Mar 21 15:18	10° $\text{Y}$ 47'37		direct	14015 Sep 05 10:26	28° $\text{O}$ 36'44	
desc. node	14013 Mar 20 13:14	9° $\text{Y}$ 27'04		desc. node	14015 Sep 05 08:37	28° $\text{O}$ 36'45	
	14013 Apr 06 04:08	0° $\text{B}$			14015 Sep 14 00:43	0° $\text{M}$	
evening rise	14013 Apr 28 02:34	27° $\text{B}$ 10'28		greatest brilliancy	14015 Sep 15 13:18	0° $\text{M}$ 30'47	-4.9m
	14013 Apr 30 09:13	0° $\text{II}$			14015 Oct 24 23:25	0° $\text{E}$	
	14013 May 24 12:49	0° $\text{E}$		morning max el	14015 Oct 25 09:14	0° $\text{E}$ 24'07	46°31'12
	14013 Jun 17 16:06	0° $\text{O}$			14015 Nov 22 11:38	0° $\text{M}$	
asc. node	14013 Jul 11 03:29	29° $\text{O}$ 05'04			14015 Dec 18 21:53	0° $\text{X}$	
	14013 Jul 11 21:17	0° $\text{M}$		asc. node	14015 Dec 27 09:54	9° $\text{X}$ 54'45	
	14013 Aug 05 07:18	0° $\text{E}$			14016 Jan 13 09:59	0° $\text{Z}$	
	14013 Aug 30 02:43	0° $\text{M}$			14016 Feb 07 09:33	0° $\approx$	
	14013 Sep 24 16:35	0° $\text{X}$			14016 Mar 03 01:36	0° $\text{H}$	
	14013 Oct 22 00:06	0° $\text{Z}$			14016 Mar 27 12:54	0° $\text{Y}$	
evening max el	14013 Oct 30 10:53	8° $\text{Z}$ 33'11	46°16'37	desc. node	14016 Apr 17 03:49	25° $\text{Y}$ 25'38	
desc. node	14013 Oct 31 01:07	9° $\text{Z}$ 08'06			14016 Apr 20 20:32	0° $\text{B}$	
	14013 Nov 24 10:10	0° $\approx$		morning set	14016 Apr 22 10:40	1° $\text{B}$ 58'01	
greatest brilliancy	14013 Dec 08 17:30	7° $\approx$ 43'03	-4.8m		14016 May 15 00:40	0° $\text{II}$	
retrograde	14013 Dec 18 23:46	9° $\approx$ 37'33		max. Earth dist.	14016 May 28 19:37	17° $\text{II}$ 11'22	1.71934 AU
evening set	14014 Jan 05 24:00	3° $\approx$ 30'11					
inferior conj	14014 Jan 09 10:29	1° $\approx$ 22'10	-8°11'03	superior conj	14016 Jun 01 00:30	21° $\text{II}$ 11'22	-1°22'56
minimum elong	14014 Jan 09 17:56	1° $\approx$ 10'27	8°09'14	minimum elong	14016 May 31 17:31	20° $\text{II}$ 49'33	1°23'51
min. Earth dist.	14014 Jan 09 11:28	1° $\approx$ 20'37	0.28840 AU		14016 Jun 08 01:44	0° $\text{E}$	
	14014 Jan 11 15:09	30° $\text{R}$ $\text{Z}$			14016 Jul 02 00:54	0° $\text{O}$	
morning rise	14014 Jan 13 11:59	28° $\text{Z}$ 52'07		evening rise	14016 Jul 10 20:15	11° $\text{O}$ 01'46	
direct	14014 Jan 30 19:45	23° $\text{Z}$ 11'23			14016 Jul 25 23:52	0° $\text{M}$	
greatest brilliancy	14014 Feb 10 05:58	25° $\text{Z}$ 10'44	-4.7m	asc. node	14016 Aug 07 17:05	15° $\text{M}$ 53'54	
	14014 Feb 19 23:58	0° $\approx$			14016 Aug 19 00:22	0° $\text{E}$	
asc. node	14014 Feb 21 03:45	0° $\approx$ 43'07			14016 Sep 12 04:09	0° $\text{M}$	

	14016 Oct 06 13:53	0°♁			14019 Apr 11 13:32	0°♁	
	14016 Oct 31 10:15	0°♁			14019 May 06 04:52	0°♁	
	14016 Nov 26 01:30	0°♁	desc. node		14019 May 15 17:40	11°♁42'38	
desc. node	14016 Nov 27 11:34	1°♁37'20			14019 May 30 13:04	0°♁	
	14016 Dec 23 04:35	0°♁			14019 Jun 23 15:59	0°♁	
evening max el	14017 Jan 09 10:48	17°♁30'22 45°56'24	morning set		14019 Jul 06 18:56	16°♁24'03	
	14017 Jan 23 05:59	0°♁			14019 Jul 17 15:31	0°♁	
greatest brilliancy	14017 Feb 17 13:09	15°♁58'24 -4.8m			14019 Aug 10 13:37	0°♁	
retrograde	14017 Feb 27 11:00	17°♁46'39					
evening set	14017 Mar 14 09:42	13°♁26'02	superior conj		14019 Aug 15 14:47	6°♁19'58 -0°47'52	
inferior conj	14017 Mar 20 16:44	9°♁40'12 0°02'24	minimum elong		14019 Aug 16 01:21	6°♁53'08 0°47'55	
minimum elong	14017 Mar 20 16:39	9°♁40'21 0°02'18	max. Earth dist.		14019 Aug 16 04:08	7°♁01'50 1.71486 AU	
transit middle	14017 Mar 20 16:39	9°♁40'21 0°02'18			14019 Sep 03 11:57	0°♁	
transit begin	14017 Mar 20 12:38	9°♁46'37	asc. node		14019 Sep 05 07:33	2°♁16'30	
transit end	14017 Mar 20 20:39	9°♁34'04	evening rise		14019 Sep 24 07:05	26°♁00'53	
asc. node	14017 Mar 20 12:54	9°♁46'13			14019 Sep 27 11:42	0°♁	
min. Earth dist.	14017 Mar 20 22:45	9°♁30'48 0.28279 AU			14019 Oct 21 14:06	0°♁	
morning rise	14017 Mar 26 23:07	5°♁53'55			14019 Nov 14 21:03	0°♁	
direct	14017 Apr 10 21:04	1°♁30'03			14019 Dec 09 11:19	0°♁	
greatest brilliancy	14017 Apr 21 14:42	3°♁37'21 -4.8m	desc. node		14019 Dec 25 23:16	19°♁50'29	
	14017 May 27 09:40	0°♁			14020 Jan 03 12:12	0°♁	
morning max el	14017 May 30 17:37	3°♁15'53 46°29'17			14020 Jan 29 04:03	0°♁	
	14017 Jun 24 21:36	0°♁			14020 Feb 24 19:57	0°♁	
desc. node	14017 Jul 10 15:43	17°♁57'37	evening max el		14020 Mar 21 19:46	27°♁06'16 46°07'00	
	14017 Jul 20 22:35	0°♁			14020 Mar 24 19:44	0°♁	
	14017 Aug 14 23:42	0°♁	asc. node		14020 Apr 16 22:06	19°♁19'00	
	14017 Sep 08 13:46	0°♁	greatest brilliancy		14020 Apr 30 12:06	26°♁28'11 -4.8m	
	14017 Oct 02 22:54	0°♁	retrograde		14020 May 10 06:57	28°♁14'41	
	14017 Oct 27 05:47	0°♁	evening set		14020 May 27 12:49	22°♁30'16	
asc. node	14017 Oct 31 10:39	5°♁11'58	inferior conj		14020 May 31 02:31	20°♁18'35 8°36'47	
	14017 Nov 20 11:27	0°♁	minimum elong		14020 May 30 19:25	20°♁29'38 8°35'00	
morning set	14017 Dec 01 18:49	14°♁00'23	min. Earth dist.		14020 May 31 05:22	20°♁14'07 0.27754 AU	
	14017 Dec 14 16:38	0°♁	morning rise		14020 Jun 03 01:59	18°♁28'13	
			direct		14020 Jun 21 02:30	12°♁16'15	
superior conj	14018 Jan 07 19:01	29°♁49'30 1°20'50	greatest brilliancy		14020 Jul 01 00:36	14°♁08'04 -4.9m	
minimum elong	14018 Jan 08 01:32	0°♁09'39 1°21'41			14020 Jul 25 12:39	0°♁	
	14018 Jan 07 22:24	0°♁	desc. node		14020 Aug 07 01:32	11°♁35'18	
max. Earth dist.	14018 Jan 09 08:51	1°♁46'28 1.73028 AU	morning max el		14020 Aug 10 15:06	15°♁07'50 46°57'23	
	14018 Feb 01 05:47	0°♁			14020 Aug 24 19:58	0°♁	
evening rise	14018 Feb 14 05:50	16°♁00'28			14020 Sep 20 11:49	0°♁	
desc. node	14018 Feb 20 00:30	23°♁06'41			14020 Oct 16 00:03	0°♁	
	14018 Feb 25 15:03	0°♁			14020 Nov 10 00:10	0°♁	
	14018 Mar 22 01:36	0°♁	asc. node		14020 Nov 27 23:49	21°♁47'49	
	14018 Apr 15 12:55	0°♁			14020 Dec 04 17:29	0°♁	
	14018 May 10 01:47	0°♁			14020 Dec 29 06:14	0°♁	
	14018 Jun 03 19:04	0°♁			14021 Jan 22 16:04	0°♁	
asc. node	14018 Jun 12 16:53	10°♁42'33	morning set		14021 Feb 08 18:49	21°♁05'08	
	14018 Jun 28 22:37	0°♁			14021 Feb 16 00:24	0°♁	
	14018 Jul 25 00:25	0°♁			14021 Mar 12 08:00	0°♁	
evening max el	14018 Aug 17 13:35	25°♁08'25 46°42'35	max. Earth dist.		14021 Mar 17 02:29	5°♁53'16 1.72968 AU	
	14018 Aug 22 11:57	0°♁					
greatest brilliancy	14018 Sep 25 22:24	25°♁27'22 -4.8m	superior conj		14021 Mar 18 07:15	7°♁22'05 0°03'15	
desc. node	14018 Oct 02 17:45	27°♁21'32	minimum elong		14021 Mar 18 07:59	7°♁24'22 0°03'11	
retrograde	14018 Oct 06 22:02	27°♁42'07	behind sun begin		14021 Mar 17 08:34	6°♁12'05	
evening set	14018 Oct 22 10:22	23°♁00'22	behind sun end		14021 Mar 19 07:24	8°♁36'39	
min. Earth dist.	14018 Oct 27 03:55	20°♁12'25 0.27751 AU	desc. node		14021 Mar 19 15:11	9°♁00'40	
inferior conj	14018 Oct 28 00:34	19°♁40'44 -5°54'53			14021 Apr 05 14:41	0°♁	
minimum elong	14018 Oct 27 13:56	19°♁57'03 5°51'38	evening rise		14021 Apr 25 17:19	24°♁54'20	
morning rise	14018 Nov 01 18:01	16°♁51'12			14021 Apr 29 19:53	0°♁	
direct	14018 Nov 17 23:32	11°♁48'57			14021 May 23 23:40	0°♁	
greatest brilliancy	14018 Nov 27 11:55	13°♁28'12 -4.8m			14021 Jun 17 03:14	0°♁	
	14018 Dec 23 17:44	0°♁	asc. node		14021 Jul 10 05:15	28°♁35'04	
morning max el	14019 Jan 06 00:57	12°♁04'44 45°50'24			14021 Jul 11 08:47	0°♁	
asc. node	14019 Jan 23 20:20	0°♁11'53			14021 Aug 04 19:24	0°♁	
	14019 Jan 23 15:51	0°♁			14021 Aug 29 15:46	0°♁	
	14019 Feb 19 18:28	0°♁			14021 Sep 24 07:29	0°♁	
	14019 Mar 17 12:14	0°♁			14021 Oct 21 19:37	0°♁	

evening max el	14021 Oct 28 01:37	6° $\text{Z}$ 17'23	46°17'36	desc. node	14024 Apr 16 05:40	24° $\text{Y}$ 57'46	
desc. node	14021 Oct 30 03:10	8° $\text{Z}$ 18'25		morning set	14024 Apr 20 00:26	29° $\text{Y}$ 38'28	
	14021 Nov 25 09:45	0° $\approx$			14024 Apr 20 07:24	0° $\text{B}$	
greatest brilliancy	14021 Dec 06 09:11	5° $\approx$ 31'22	-4.8m		14024 May 14 11:30	0° $\text{II}$	
retrograde	14021 Dec 16 14:51	7° $\approx$ 25'37		max. Earth dist.	14024 May 26 09:07	14° $\text{II}$ 49'58	1.71968 AU
evening set	14022 Jan 03 18:00	1° $\approx$ 15'06					
	14022 Jan 05 18:39	30° $\text{R}$ $\text{Z}$		superior conj	14024 May 29 13:25	18° $\text{II}$ 48'02	-1°21'40
inferior conj	14022 Jan 07 02:12	29° $\text{Z}$ 10'28	-8°18'43	minimum elong	14024 May 29 05:39	18° $\text{II}$ 23'49	1°22'33
minimum elong	14022 Jan 07 09:05	28° $\text{Z}$ 59'40	8°17'02		14024 Jun 07 12:34	0° $\text{G}$	
min. Earth dist.	14022 Jan 07 02:33	29° $\text{Z}$ 09'56	0.28834 AU		14024 Jul 01 11:46	0° $\Omega$	
morning rise	14022 Jan 11 00:14	26° $\text{Z}$ 45'21		evening rise	14024 Jul 08 08:08	8° $\Omega$ 34'38	
direct	14022 Jan 28 11:11	21° $\text{Z}$ 00'04			14024 Jul 25 10:50	0° $\text{M}$	
greatest brilliancy	14022 Feb 07 20:42	22° $\text{Z}$ 58'15	-4.7m	asc. node	14024 Aug 06 18:59	15° $\text{M}$ 25'23	
asc. node	14022 Feb 20 05:50	29° $\text{Z}$ 26'59			14024 Aug 18 11:30	0° $\text{L}$	
	14022 Feb 21 01:36	0° $\approx$			14024 Sep 11 15:33	0° $\text{M}$	
morning max el	14022 Mar 18 13:39	21° $\approx$ 37'36	45°48'43		14024 Oct 06 01:45	0° $\text{X}$	
	14022 Mar 26 22:01	0° $\text{X}$			14024 Oct 30 22:54	0° $\text{Z}$	
	14022 Apr 23 12:04	0° $\text{Y}$			14024 Nov 25 15:43	0° $\approx$	
	14022 May 19 08:07	0° $\text{B}$		desc. node	14024 Nov 26 13:24	1° $\approx$ 01'45	
desc. node	14022 Jun 12 06:18	28° $\text{B}$ 42'09			14024 Dec 22 22:26	0° $\text{X}$	
	14022 Jun 13 07:57	0° $\text{II}$		evening max el	14025 Jan 07 01:53	15° $\text{X}$ 16'59	45°56'45
	14022 Jul 07 19:56	0° $\text{G}$			14025 Jan 23 14:07	0° $\text{Y}$	
	14022 Aug 01 00:56	0° $\Omega$		greatest brilliancy	14025 Feb 15 03:34	13° $\text{Y}$ 43'43	-4.8m
	14022 Aug 25 02:31	0° $\text{M}$		retrograde	14025 Feb 25 02:28	15° $\text{Y}$ 32'44	
	14022 Sep 18 03:03	0° $\text{L}$		evening set	14025 Mar 12 01:46	11° $\text{Y}$ 10'21	
morning set	14022 Sep 18 20:55	0° $\text{L}$ 55'49		inferior conj	14025 Mar 18 07:59	7° $\text{Y}$ 25'39	-0°19'17
asc. node	14022 Oct 02 22:17	18° $\text{L}$ 28'50		minimum elong	14025 Mar 18 08:43	7° $\text{Y}$ 24'31	0°19'04
	14022 Oct 12 03:48	0° $\text{M}$		min. Earth dist.	14025 Mar 18 14:16	7° $\text{Y}$ 15'51	0.28304 AU
				asc. node	14025 Mar 19 14:57	6° $\text{Y}$ 37'18	
superior conj	14022 Oct 27 18:01	19° $\text{M}$ 26'36	0°55'42	morning rise	14025 Mar 24 15:15	3° $\text{Y}$ 38'32	
minimum elong	14022 Oct 27 07:45	18° $\text{M}$ 54'37	0°56'02		14025 Apr 02 11:40	30° $\text{R}$ $\text{X}$	
max. Earth dist.	14022 Oct 29 22:11	22° $\text{M}$ 09'05	1.72197 AU	direct	14025 Apr 08 12:47	29° $\text{X}$ 15'10	
	14022 Nov 05 05:27	0° $\text{X}$			14025 Apr 14 18:31	0° $\text{Y}$	
	14022 Nov 29 08:57	0° $\text{Z}$		greatest brilliancy	14025 Apr 19 06:50	1° $\text{Y}$ 23'19	-4.8m
evening rise	14022 Dec 04 04:38	5° $\text{Z}$ 58'12			14025 May 27 08:38	0° $\text{B}$	
	14022 Dec 23 15:46	0° $\approx$		morning max el	14025 May 28 09:38	1° $\text{B}$ 01'46	46°27'50
	14023 Jan 17 03:18	0° $\text{X}$			14025 Jun 24 13:42	0° $\text{II}$	
desc. node	14023 Jan 22 12:17	6° $\text{X}$ 32'54		desc. node	14025 Jul 09 17:35	17° $\text{II}$ 20'58	
	14023 Feb 10 20:20	0° $\text{Y}$			14025 Jul 20 12:17	0° $\text{G}$	
	14023 Mar 07 19:09	0° $\text{B}$			14025 Aug 14 12:14	0° $\Omega$	
	14023 Apr 02 01:31	0° $\text{II}$			14025 Sep 08 01:38	0° $\text{M}$	
	14023 Apr 27 22:00	0° $\text{G}$			14025 Oct 02 10:18	0° $\text{L}$	
asc. node	14023 May 15 07:50	19° $\text{G}$ 26'52			14025 Oct 26 16:53	0° $\text{M}$	
	14023 May 25 04:21	0° $\Omega$		asc. node	14025 Oct 30 12:25	4° $\text{M}$ 43'10	
evening max el	14023 Jun 03 12:39	9° $\Omega$ 33'38	46°35'25		14025 Nov 19 22:21	0° $\text{X}$	
	14023 Jun 26 12:02	0° $\text{M}$		morning set	14025 Nov 29 10:40	11° $\text{X}$ 47'12	
greatest brilliancy	14023 Jul 13 21:08	9° $\text{M}$ 56'59	-4.9m		14025 Dec 14 03:26	0° $\text{Z}$	
retrograde	14023 Jul 23 13:42	11° $\text{M}$ 43'09					
evening set	14023 Aug 08 09:23	6° $\text{M}$ 52'28		superior conj	14026 Jan 05 11:39	27° $\text{Z}$ 39'17	1°21'57
inferior conj	14023 Aug 13 05:55	3° $\text{M}$ 59'14	5°26'30	minimum elong	14026 Jan 05 17:34	27° $\text{Z}$ 57'34	1°22'50
minimum elong	14023 Aug 13 16:29	3° $\text{M}$ 43'04	5°23'08	max. Earth dist.	14026 Jan 07 04:20	29° $\text{Z}$ 45'02	1.73014 AU
min. Earth dist.	14023 Aug 13 17:13	3° $\text{M}$ 41'57	0.26995 AU		14026 Jan 07 09:11	0° $\approx$	
morning rise	14023 Aug 18 23:23	0° $\text{M}$ 36'11			14026 Jan 31 16:36	0° $\text{X}$	
	14023 Aug 20 02:30	30° $\text{R}$ $\Omega$		evening rise	14026 Feb 11 21:46	13° $\text{X}$ 48'28	
direct	14023 Sep 02 22:56	26° $\Omega$ 11'46		desc. node	14026 Feb 19 02:24	22° $\text{X}$ 39'04	
desc. node	14023 Sep 04 10:44	26° $\Omega$ 14'25			14026 Feb 25 01:59	0° $\text{Y}$	
greatest brilliancy	14023 Sep 13 03:22	28° $\Omega$ 07'14	-4.9m		14026 Mar 21 12:45	0° $\text{B}$	
	14023 Sep 17 13:15	0° $\text{M}$			14026 Apr 15 00:26	0° $\text{II}$	
morning max el	14023 Oct 22 22:53	28° $\text{M}$ 02'28	46°32'42		14026 May 09 13:49	0° $\text{G}$	
	14023 Oct 24 22:18	0° $\text{L}$			14026 Jun 03 07:54	0° $\Omega$	
	14023 Nov 22 03:49	0° $\text{M}$		asc. node	14026 Jun 11 18:42	10° $\Omega$ 08'32	
	14023 Dec 18 11:30	0° $\text{X}$			14026 Jun 28 12:46	0° $\text{M}$	
asc. node	14023 Dec 26 11:46	9° $\text{X}$ 21'41			14026 Jul 24 17:17	0° $\text{L}$	
	14024 Jan 12 22:18	0° $\text{Z}$		evening max el	14026 Aug 15 05:13	22° $\text{L}$ 51'09	46°43'10
	14024 Feb 06 21:08	0° $\approx$			14026 Aug 22 13:03	0° $\text{M}$	
	14024 Mar 02 12:47	0° $\text{X}$		greatest brilliancy	14026 Sep 23 12:37	23° $\text{M}$ 07'34	-4.8m
	14024 Mar 26 23:52	0° $\text{Y}$		desc. node	14026 Oct 01 19:44	25° $\text{M}$ 13'57	

retrograde	14026 Oct 04 13:14	25° $\mathbb{M}$ 22'46		behind sun begin	14029 Mar 15 02:28	4° $\Upsilon$ 05'59	
evening set	14026 Oct 19 21:51	20° $\mathbb{M}$ 45'28		behind sun end	14029 Mar 16 22:05	6° $\Upsilon$ 20'37	
min. Earth dist.	14026 Oct 24 17:54	17° $\mathbb{M}$ 53'58	0.27697 AU	desc. node	14029 Mar 18 17:01	8° $\Upsilon$ 33'09	
inferior conj	14026 Oct 25 14:40	17° $\mathbb{M}$ 22'08	-5°37'46		14029 Apr 05 01:30	0° $\mathcal{B}$	
minimum elong	14026 Oct 25 04:13	17° $\mathbb{M}$ 38'10	5°34'30	evening rise	14029 Apr 23 07:46	22° $\mathcal{B}$ 36'31	
morning rise	14026 Oct 30 11:10	14° $\mathbb{M}$ 28'34			14029 Apr 29 06:50	0° $\mathbb{I}$	
direct	14026 Nov 15 13:52	9° $\mathbb{M}$ 31'11			14029 May 23 10:46	0° $\mathcal{E}$	
greatest brilliancy	14026 Nov 25 00:59	11° $\mathbb{M}$ 09'47	-4.8m		14029 Jun 16 14:34	0° $\mathcal{O}$	
	14026 Dec 23 23:37	0° $\mathcal{A}$		asc. node	14029 Jul 09 07:12	28° $\mathcal{O}$ 04'59	
morning max el	14027 Jan 03 15:50	9° $\mathcal{A}$ 49'59	45°51'08		14029 Jul 10 20:31	0° $\mathbb{M}$	
asc. node	14027 Jan 22 22:22	29° $\mathcal{A}$ 30'32			14029 Aug 04 07:43	0° $\mathcal{A}$	
	14027 Jan 23 09:23	0° $\mathcal{B}$			14029 Aug 29 05:05	0° $\mathbb{M}$	
	14027 Feb 19 08:37	0° $\approx$			14029 Sep 23 22:42	0° $\mathcal{A}$	
	14027 Mar 17 00:53	0° $\mathcal{H}$			14029 Oct 21 15:52	0° $\mathcal{B}$	
	14027 Apr 11 01:24	0° $\Upsilon$		evening max el	14029 Oct 25 15:38	3° $\mathcal{B}$ 59'25	46°18'41
	14027 May 05 16:17	0° $\mathcal{B}$		desc. node	14029 Oct 29 05:05	7° $\mathcal{B}$ 27'14	
desc. node	14027 May 14 19:26	11° $\mathcal{B}$ 13'15			14029 Nov 26 18:52	0° $\approx$	
	14027 May 30 00:15	0° $\mathbb{I}$		greatest brilliancy	14029 Dec 04 00:52	3° $\approx$ 19'37	-4.8m
	14027 Jun 23 03:03	0° $\mathcal{E}$		retrograde	14029 Dec 14 06:06	5° $\approx$ 14'06	
morning set	14027 Jul 04 06:38	13° $\mathcal{E}$ 56'06			14029 Dec 30 19:52	30° $\mathcal{R}$ $\mathcal{B}$	
	14027 Jul 17 02:30	0° $\mathcal{O}$		evening set	14030 Jan 01 11:51	29° $\mathcal{B}$ 00'36	
	14027 Aug 10 00:34	0° $\mathbb{M}$		inferior conj	14030 Jan 04 18:04	26° $\mathcal{B}$ 59'05	-8°25'29
				minimum elong	14030 Jan 05 00:17	26° $\mathcal{B}$ 49'19	8°23'55
superior conj	14027 Aug 13 02:47	3° $\mathbb{M}$ 52'46	-0°51'03	min. Earth dist.	14030 Jan 04 17:48	26° $\mathcal{B}$ 59'30	0.28827 AU
minimum elong	14027 Aug 13 13:46	4° $\mathbb{M}$ 27'10	0°51'09	morning rise	14030 Jan 08 12:46	24° $\mathcal{B}$ 38'51	
max. Earth dist.	14027 Aug 13 15:12	4° $\mathbb{M}$ 31'43	1.71473 AU	direct	14030 Jan 26 02:23	18° $\mathcal{B}$ 48'58	
	14027 Sep 02 22:52	0° $\mathcal{A}$		greatest brilliancy	14030 Feb 05 11:58	20° $\mathcal{B}$ 46'43	-4.7m
asc. node	14027 Sep 04 09:29	1° $\mathcal{A}$ 48'22		asc. node	14030 Feb 19 07:51	28° $\mathcal{B}$ 13'12	
evening rise	14027 Sep 21 20:52	23° $\mathcal{A}$ 39'53			14030 Feb 21 20:14	0° $\approx$	
	14027 Sep 26 22:37	0° $\mathbb{M}$		morning max el	14030 Mar 16 03:57	19° $\approx$ 21'54	45°47'53
	14027 Oct 21 01:07	0° $\mathcal{A}$			14030 Mar 26 16:57	0° $\mathcal{H}$	
	14027 Nov 14 08:17	0° $\mathcal{B}$			14030 Apr 23 02:41	0° $\Upsilon$	
	14027 Dec 08 22:56	0° $\approx$			14030 May 18 21:03	0° $\mathcal{B}$	
desc. node	14027 Dec 25 01:08	19° $\approx$ 20'04		desc. node	14030 Jun 11 08:12	28° $\mathcal{B}$ 11'12	
	14028 Jan 03 00:34	0° $\mathcal{H}$			14030 Jun 12 20:01	0° $\mathbb{I}$	
	14028 Jan 28 17:46	0° $\Upsilon$			14030 Jul 07 07:30	0° $\mathcal{E}$	
	14028 Feb 24 12:30	0° $\mathcal{B}$			14030 Jul 31 12:11	0° $\mathcal{O}$	
evening max el	14028 Mar 19 10:16	24° $\mathcal{B}$ 48'43	46°06'02		14030 Aug 24 13:32	0° $\mathbb{M}$	
	14028 Mar 24 20:32	0° $\mathbb{I}$		morning set	14030 Sep 16 10:07	28° $\mathbb{M}$ 33'11	
asc. node	14028 Apr 16 00:03	17° $\mathbb{I}$ 58'38			14030 Sep 17 13:55	0° $\mathcal{A}$	
greatest brilliancy	14028 Apr 28 01:45	24° $\mathbb{I}$ 07'49	-4.8m	asc. node	14030 Oct 01 24:00	18° $\mathcal{A}$ 00'28	
retrograde	14028 May 07 20:10	25° $\mathbb{I}$ 53'56			14030 Oct 11 14:34	0° $\mathbb{M}$	
evening set	14028 May 24 22:42	20° $\mathbb{I}$ 15'43					
inferior conj	14028 May 28 16:32	17° $\mathbb{I}$ 57'42	8°28'23	superior conj	14030 Oct 25 08:48	17° $\mathbb{M}$ 09'45	0°52'56
minimum elong	14028 May 28 08:46	18° $\mathbb{I}$ 09'49	8°26'28	minimum elong	14030 Oct 24 22:41	16° $\mathbb{M}$ 38'15	0°53'14
min. Earth dist.	14028 May 28 19:00	17° $\mathbb{I}$ 53'51	0.27772 AU	max. Earth dist.	14030 Oct 27 09:55	19° $\mathbb{M}$ 42'47	1.72164 AU
morning rise	14028 May 31 18:46	16° $\mathbb{I}$ 02'53			14030 Nov 04 16:09	0° $\mathcal{A}$	
direct	14028 Jun 18 16:38	9° $\mathbb{I}$ 55'09			14030 Nov 28 19:39	0° $\mathcal{B}$	
greatest brilliancy	14028 Jun 28 15:01	11° $\mathbb{I}$ 46'50	-4.9m	evening rise	14030 Dec 01 20:38	3° $\mathcal{B}$ 46'02	
	14028 Jul 25 19:39	0° $\mathcal{E}$			14030 Dec 23 02:32	0° $\approx$	
desc. node	14028 Aug 06 03:39	10° $\mathcal{E}$ 42'08			14031 Jan 16 14:18	0° $\mathcal{H}$	
morning max el	14028 Aug 08 04:04	12° $\mathcal{E}$ 43'04	46°57'12	desc. node	14031 Jan 21 14:15	6° $\mathcal{H}$ 05'15	
	14028 Aug 24 14:14	0° $\mathcal{O}$			14031 Feb 10 07:43	0° $\Upsilon$	
	14028 Sep 20 02:32	0° $\mathbb{M}$			14031 Mar 07 07:12	0° $\mathcal{B}$	
	14028 Oct 15 13:06	0° $\mathcal{A}$			14031 Apr 01 14:39	0° $\mathbb{I}$	
	14028 Nov 09 12:15	0° $\mathbb{M}$			14031 Apr 27 13:10	0° $\mathcal{E}$	
asc. node	14028 Nov 27 01:41	21° $\mathbb{M}$ 18'07		asc. node	14031 May 14 09:40	18° $\mathcal{E}$ 43'48	
	14028 Dec 04 04:58	0° $\mathcal{A}$			14031 May 25 00:23	0° $\mathcal{O}$	
	14028 Dec 28 17:18	0° $\mathcal{B}$		evening max el	14031 Jun 01 01:09	7° $\mathcal{O}$ 08'37	46°34'32
	14029 Jan 22 02:53	0° $\approx$			14031 Jun 27 09:05	0° $\mathbb{M}$	
morning set	14029 Feb 06 11:52	18° $\approx$ 56'36		greatest brilliancy	14031 Jul 11 10:42	7° $\mathbb{M}$ 32'34	-4.9m
	14029 Feb 15 11:08	0° $\mathcal{H}$		retrograde	14031 Jul 21 02:35	9° $\mathbb{M}$ 18'27	
	14029 Mar 11 18:45	0° $\Upsilon$		evening set	14031 Aug 06 01:26	4° $\mathbb{M}$ 22'34	
max. Earth dist.	14029 Mar 14 18:00	3° $\Upsilon$ 39'54	1.72993 AU	inferior conj	14031 Aug 10 18:38	1° $\mathbb{M}$ 34'14	5°45'48
				minimum elong	14031 Aug 11 05:29	1° $\mathbb{M}$ 17'39	5°42'26
superior conj	14029 Mar 15 22:43	5° $\Upsilon$ 08'32	0°06'43	min. Earth dist.	14031 Aug 11 06:45	1° $\mathbb{M}$ 15'43	0.27012 AU
minimum elong	14029 Mar 16 00:16	5° $\Upsilon$ 13'18	0°06'39		14031 Aug 13 08:42	30° $\mathcal{R}$ $\mathcal{O}$	

morning rise	14031 Aug 16 09:19	28°♊15'12	evening rise	14034 Feb 09 13:52	11°♋38'02
direct	14031 Aug 31 11:34	23°♊46'05	desc. node	14034 Feb 18 04:13	22°♋12'19
desc. node	14031 Sep 03 12:42	23°♊57'03		14034 Feb 24 12:33	0°♌
greatest brilliancy	14031 Sep 10 16:44	25°♊42'37 -4.9m		14034 Mar 20 23:32	0°♍
	14031 Sep 19 12:59	0°♎		14034 Apr 14 11:33	0°♎
morning max el	14031 Oct 20 13:12	25°♎42'41 46°34'17		14034 May 09 01:27	0°♏
	14031 Oct 24 20:10	0°♐		14034 Jun 02 20:21	0°♐
	14031 Nov 21 19:34	0°♑	asc. node	14034 Jun 10 20:44	9°♐36'17
	14031 Dec 18 00:49	0°♒		14034 Jun 28 02:39	0°♑
asc. node	14031 Dec 25 13:43	8°♒49'37		14034 Jul 24 10:10	0°♒
	14032 Jan 12 10:21	0°♓	evening max el	14034 Aug 12 20:39	20°♓33'53 46°43'21
	14032 Feb 06 08:29	0°♈		14034 Aug 22 15:19	0°♈
	14032 Mar 01 23:44	0°♉	greatest brilliancy	14034 Sep 21 03:13	20°♈48'05 -4.8m
	14032 Mar 26 10:36	0°♊	desc. node	14034 Sep 30 21:40	23°♈00'52
desc. node	14032 Apr 15 07:26	24°♊30'20	retrograde	14034 Oct 02 03:42	23°♈02'44
morning set	14032 Apr 17 14:39	27°♊21'03	evening set	14034 Oct 17 09:12	18°♈30'00
	14032 Apr 19 18:02	0°♋	min. Earth dist.	14034 Oct 22 07:56	15°♈34'36 0.27640 AU
	14032 May 13 22:07	0°♌	inferior conj	14034 Oct 23 04:26	15°♈03'09 -5°19'54
max. Earth dist.	14032 May 23 23:50	12°♌32'53 1.72009 AU	minimum elong	14034 Oct 22 18:13	15°♈18'50 5°16'38
			morning rise	14034 Oct 28 03:54	12°♈05'27
superior conj	14032 May 27 02:18	16°♌25'12 -1°20'15	direct	14034 Nov 13 03:48	7°♈13'12
minimum elong	14032 May 26 17:52	15°♌58'52 1°21'05	greatest brilliancy	14034 Nov 22 13:57	8°♈51'08 -4.8m
	14032 Jun 06 23:14	0°♏		14034 Dec 24 03:15	0°♏
	14032 Jun 30 22:33	0°♐	morning max el	14035 Jan 01 05:28	7°♏32'59 45°52'05
evening rise	14032 Jul 05 19:44	6°♐06'54	asc. node	14035 Jan 22 00:25	28°♏50'47
	14032 Jul 24 21:44	0°♑		14035 Jan 23 02:08	0°♓
asc. node	14032 Aug 05 20:51	14°♑57'01		14035 Feb 18 22:10	0°♈
	14032 Aug 17 22:33	0°♒		14035 Mar 16 13:00	0°♉
	14032 Sep 11 02:51	0°♈		14035 Apr 10 12:46	0°♊
	14032 Oct 05 13:27	0°♏		14035 May 05 03:14	0°♋
	14032 Oct 30 11:25	0°♓	desc. node	14035 May 13 21:21	10°♋45'41
	14032 Nov 25 05:50	0°♈		14035 May 29 10:58	0°♌
desc. node	14032 Nov 25 15:21	0°♈27'03		14035 Jun 22 13:38	0°♏
	14032 Dec 22 16:21	0°♉	morning set	14035 Jul 01 18:43	11°♏30'48
evening max el	14033 Jan 04 17:55	13°♉06'57 45°57'10		14035 Jul 16 13:02	0°♐
	14033 Jan 24 00:32	0°♊		14035 Aug 09 11:04	0°♑
greatest brilliancy	14033 Feb 12 18:14	11°♊30'58 -4.8m			
retrograde	14033 Feb 22 18:17	13°♊20'31	superior conj	14035 Aug 10 15:02	1°♑27'41 -0°54'06
evening set	14033 Mar 09 18:19	8°♊56'30	minimum elong	14035 Aug 11 02:19	2°♑03'04 0°54'15
inferior conj	14033 Mar 15 23:29	5°♊12'57 -0°40'40	max. Earth dist.	14035 Aug 11 00:34	1°♑57'35 1.71468 AU
minimum elong	14033 Mar 16 01:01	5°♊10'33 0°40'10		14035 Sep 02 09:23	0°♒
min. Earth dist.	14033 Mar 16 05:45	5°♊03'09 0.28327 AU	asc. node	14035 Sep 03 11:13	1°♒20'52
asc. node	14033 Mar 18 16:50	3°♊31'31	evening rise	14035 Sep 19 10:26	21°♒19'15
morning rise	14033 Mar 22 07:25	1°♊25'11		14035 Sep 26 09:13	0°♈
	14033 Mar 25 02:01	30°♋		14035 Oct 20 11:50	0°♏
direct	14033 Apr 06 05:03	27°♋02'27		14035 Nov 13 19:12	0°♓
greatest brilliancy	14033 Apr 16 22:30	29°♋10'30 -4.8m		14035 Dec 08 10:15	0°♈
	14033 Apr 18 23:01	0°♌	desc. node	14035 Dec 24 03:07	18°♈50'58
morning max el	14033 May 26 01:36	28°♌48'58 46°26'10		14036 Jan 02 12:37	0°♉
	14033 May 27 06:09	0°♍		14036 Jan 28 07:12	0°♊
	14033 Jun 24 05:08	0°♎		14036 Feb 24 04:53	0°♋
desc. node	14033 Jul 08 19:40	16°♎46'10	evening max el	14036 Mar 17 00:02	22°♋30'47 46°05'12
	14033 Jul 20 01:34	0°♏		14036 Mar 24 22:02	0°♌
	14033 Aug 14 00:29	0°♐	asc. node	14036 Apr 15 02:03	16°♌37'21
	14033 Sep 07 13:15	0°♑	greatest brilliancy	14036 Apr 25 15:52	21°♌49'44 -4.8m
	14033 Oct 01 21:30	0°♒	retrograde	14036 May 05 09:31	23°♌35'30
	14033 Oct 26 03:44	0°♈	evening set	14036 May 22 08:45	18°♌03'18
asc. node	14033 Oct 29 14:16	4°♈15'26	inferior conj	14036 May 26 06:47	15°♌39'03 8°19'13
	14033 Nov 19 08:57	0°♏	minimum elong	14036 May 25 22:24	15°♌52'10 8°17'08
morning set	14033 Nov 27 02:23	9°♏34'29	min. Earth dist.	14036 May 26 09:04	15°♌35'28 0.27788 AU
	14033 Dec 13 13:54	0°♓	morning rise	14036 May 29 11:56	13°♌39'41
			direct	14036 Jun 16 06:32	7°♌36'08
superior conj	14034 Jan 03 04:20	25°♓30'11 1°22'56	greatest brilliancy	14036 Jun 26 06:06	9°♌28'23 -4.9m
minimum elong	14034 Jan 03 09:37	25°♓46'32 1°23'52		14036 Jul 25 23:46	0°♏
max. Earth dist.	14034 Jan 05 00:41	27°♓47'18 1.72994 AU	desc. node	14036 Aug 05 05:33	9°♏51'07
	14034 Jan 06 19:36	0°♈	morning max el	14036 Aug 05 16:52	10°♏19'31 46°57'03
	14034 Jan 31 03:04	0°♉		14036 Aug 24 07:28	0°♐

	14036 Sep 19 16:33	0°♍			14039 Mar 06 19:09	0°♎		
	14036 Oct 15 01:38	0°♎			14039 Apr 01 03:44	0°♏		
	14036 Nov 08 23:56	0°♏			14039 Apr 27 04:23	0°♐		
asc. node	14036 Nov 26 03:38	20°♏49'45		asc. node	14039 May 13 11:44	18°♐01'16		
	14036 Dec 03 16:06	0°♑			14039 May 24 20:53	0°♑		
	14036 Dec 28 04:04	0°♒		evening max el	14039 May 29 14:26	4°♑46'19	46°33'44	
	14037 Jan 21 13:24	0°♓			14039 Jun 28 13:41	0°♒		
morning set	14037 Feb 04 04:41	16°♓48'21		greatest brilliancy	14039 Jul 08 23:45	5°♒08'17	-4.9m	
	14037 Feb 14 21:31	0°♈		retrograde	14039 Jul 18 15:56	6°♒54'18		
	14037 Mar 11 05:07	0°♉		evening set	14039 Aug 03 17:36	1°♒53'05		
max. Earth dist.	14037 Mar 12 11:08	1°♉32'37	1.73014 AU		14039 Aug 06 22:16	30°♒♏		
				inferior conj	14039 Aug 08 07:21	29°♒09'38	6°04'28	
superior conj	14037 Mar 13 14:09	2°♉55'59	0°10'09	minimum elong	14039 Aug 08 18:24	28°♒52'45	6°01'07	
minimum elong	14037 Mar 13 16:29	3°♉03'12	0°10'06	min. Earth dist.	14039 Aug 08 19:52	28°♒50'31	0.27032 AU	
behind sun begin	14037 Mar 12 21:53	2°♉05'49		morning rise	14039 Aug 13 19:02	25°♒54'58		
behind sun end	14037 Mar 14 11:04	4°♉00'35		direct	14039 Aug 29 00:48	21°♒20'54		
desc. node	14037 Mar 17 18:42	8°♉06'20		desc. node	14039 Sep 02 14:37	21°♒45'32		
	14037 Apr 04 11:57	0°♊		greatest brilliancy	14039 Sep 08 05:29	23°♒17'41	-4.9m	
evening rise	14037 Apr 20 22:24	20°♊20'31			14039 Sep 20 20:54	0°♒		
	14037 Apr 28 17:25	0°♋		morning max el	14039 Oct 18 04:01	23°♒24'31	46°35'53	
	14037 May 22 21:32	0°♌			14039 Oct 24 17:03	0°♋		
	14037 Jun 16 01:35	0°♍			14039 Nov 21 10:54	0°♌		
asc. node	14037 Jul 08 09:05	27°♍35'47			14039 Dec 17 13:54	0°♑		
	14037 Jul 10 07:54	0°♒		asc. node	14039 Dec 24 15:40	8°♑18'02		
	14037 Aug 03 19:41	0°♓			14040 Jan 11 22:17	0°♒		
	14037 Aug 28 18:03	0°♏			14040 Feb 05 19:47	0°♓		
	14037 Sep 23 13:43	0°♑			14040 Mar 01 10:41	0°♈		
	14037 Oct 21 12:25	0°♒			14040 Mar 25 21:22	0°♉		
evening max el	14037 Oct 23 05:20	1°♒41'37	46°19'35	desc. node	14040 Apr 14 09:20	24°♉03'16		
desc. node	14037 Oct 28 07:04	6°♒36'09		morning set	14040 Apr 15 04:42	25°♉03'08		
	14037 Nov 28 20:33	0°♓			14040 Apr 19 04:42	0°♊		
greatest brilliancy	14037 Dec 01 15:53	1°♓07'28	-4.8m		14040 May 13 08:45	0°♋		
retrograde	14037 Dec 11 21:34	3°♓02'55		max. Earth dist.	14040 May 21 13:53	10°♋13'50	1.72045 AU	
	14037 Dec 24 08:21	30°♋♒						
evening set	14037 Dec 30 05:17	26°♋46'29		superior conj	14040 May 24 15:01	14°♋01'50	-1°18'41	
inferior conj	14038 Jan 02 09:46	24°♋47'52	-8°31'32	minimum elong	14040 May 24 05:58	13°♋33'38	1°19'28	
minimum elong	14038 Jan 02 15:17	24°♋39'11	8°30'05		14040 Jun 06 09:55	0°♌		
min. Earth dist.	14038 Jan 02 08:47	24°♋49'24	0.28822 AU		14040 Jun 30 09:19	0°♍		
morning rise	14038 Jan 06 01:19	22°♋32'30		evening rise	14040 Jul 03 07:17	3°♍39'02		
direct	14038 Jan 23 17:25	16°♋37'52			14040 Jul 24 08:38	0°♎		
greatest brilliancy	14038 Feb 03 03:20	18°♋35'41	-4.7m	asc. node	14040 Aug 04 22:36	14°♎28'14		
asc. node	14038 Feb 18 09:44	27°♋01'39			14040 Aug 17 09:38	0°♏		
	14038 Feb 22 09:48	0°♐			14040 Sep 10 14:11	0°♏		
morning max el	14038 Mar 13 18:50	17°♐08'14	45°47'16		14040 Oct 05 01:15	0°♑		
	14038 Mar 26 11:09	0°♈			14040 Oct 30 00:02	0°♒		
	14038 Apr 22 16:52	0°♉		desc. node	14040 Nov 24 17:22	29°♒52'12		
	14038 May 18 09:35	0°♊			14040 Nov 24 20:07	0°♓		
desc. node	14038 Jun 10 10:08	27°♊41'24			14040 Dec 22 10:48	0°♈		
	14038 Jun 12 07:43	0°♋		evening max el	14041 Jan 02 09:56	10°♈56'42	45°57'25	
	14038 Jul 06 18:44	0°♌			14041 Jan 24 14:50	0°♉		
	14038 Jul 30 23:07	0°♍		greatest brilliancy	14041 Feb 10 09:14	9°♉18'06	-4.8m	
	14038 Aug 24 00:16	0°♎		retrograde	14041 Feb 20 09:35	11°♉07'24		
morning set	14038 Sep 13 23:40	26°♎12'23		evening set	14041 Mar 07 10:56	6°♉41'48		
	14038 Sep 17 00:31	0°♏		inferior conj	14041 Mar 13 14:51	2°♉59'29	-1°02'03	
asc. node	14038 Oct 01 01:49	17°♏33'22		minimum elong	14041 Mar 13 17:11	2°♉55'49	1°01'16	
	14038 Oct 11 01:03	0°♐		min. Earth dist.	14041 Mar 13 21:15	2°♉49'27	0.28353 AU	
				asc. node	14041 Mar 17 18:52	0°♊25'45		
superior conj	14038 Oct 22 23:48	14°♐54'21	0°50'07		14041 Mar 18 12:29	30°♊♈		
minimum elong	14038 Oct 22 13:54	14°♐23'30	0°50'21	morning rise	14041 Mar 19 23:14	29°♊11'03		
max. Earth dist.	14038 Oct 24 22:58	17°♐21'21	1.72134 AU	direct	14041 Apr 03 21:16	24°♊48'59		
	14038 Nov 04 02:35	0°♑		greatest brilliancy	14041 Apr 14 13:59	26°♊56'29	-4.8m	
	14038 Nov 28 06:07	0°♒			14041 Apr 21 02:37	0°♋		
evening rise	14038 Nov 29 12:50	1°♒35'08		morning max el	14041 May 23 16:46	26°♋33'24	46°24'31	
	14038 Dec 22 13:09	0°♓			14041 May 27 03:12	0°♌		
	14039 Jan 16 01:11	0°♈			14041 Jun 23 20:35	0°♋		
desc. node	14039 Jan 20 16:01	5°♈37'24		desc. node	14041 Jul 07 21:32	16°♋10'24		
	14039 Feb 09 19:01	0°♉			14041 Jul 19 14:56	0°♌		



	14041 Aug 13 12:49	0°♌		asc. node	14044 Apr 14 04:03	15°♊12'01	
	14041 Sep 07 00:59	0°♍		greatest brilliancy	14044 Apr 23 05:31	19°♊29'48	-4.8m
	14041 Oct 01 08:49	0°♎		retrograde	14044 May 02 23:01	21°♊15'48	
	14041 Oct 25 14:45	0°♏		evening set	14044 May 19 18:39	15°♊49'14	
asc. node	14041 Oct 28 16:11	3°♏47'21		inferior conj	14044 May 23 20:57	13°♊18'52	8°09'10
	14041 Nov 18 19:45	0°♐		minimum elong	14044 May 23 12:01	13°♊32'50	8°06'54
morning set	14041 Nov 24 18:08	7°♐21'14		min. Earth dist.	14044 May 23 23:04	13°♊15'34	0.27811 AU
	14041 Dec 13 00:34	0°♑		morning rise	14044 May 27 05:14	11°♊14'45	
				direct	14044 Jun 13 20:15	5°♊15'17	
superior conj	14041 Dec 31 21:10	23°♑20'57	1°23'48	greatest brilliancy	14044 Jun 23 21:22	7°♊08'36	-4.9m
minimum elong	14042 Jan 01 01:47	23°♑35'15	1°24'45		14044 Jul 26 02:57	0°♋	
max. Earth dist.	14042 Jan 02 20:17	25°♑46'39	1.72971 AU	morning max el	14044 Aug 03 06:24	7°♋56'03	46°56'50
	14042 Jan 06 06:14	0°♌		desc. node	14044 Aug 04 07:29	8°♋59'19	
	14042 Jan 30 13:44	0°♍			14044 Aug 24 00:58	0°♌	
evening rise	14042 Feb 07 06:01	9°♍27'08			14044 Sep 19 07:01	0°♍	
desc. node	14042 Feb 17 06:00	21°♍44'42			14044 Oct 14 14:36	0°♎	
	14042 Feb 23 23:22	0°♏			14044 Nov 08 12:02	0°♏	
	14042 Mar 20 10:37	0°♐		asc. node	14044 Nov 25 05:28	20°♏19'48	
	14042 Apr 13 23:01	0°♑			14044 Dec 03 03:37	0°♐	
	14042 May 08 13:29	0°♒			14044 Dec 27 15:13	0°♑	
	14042 Jun 02 09:15	0°♓			14045 Jan 21 00:20	0°♒	
asc. node	14042 Jun 09 22:35	9°♓02'15		morning set	14045 Feb 01 21:35	14°♒38'57	
	14042 Jun 27 17:03	0°♑			14045 Feb 14 08:20	0°♓	
	14042 Jul 24 03:46	0°♒		max. Earth dist.	14045 Mar 10 05:59	29°♓29'18	1.73033 AU
evening max el	14042 Aug 10 11:01	18°♒12'57	46°43'36		14045 Mar 10 15:55	0°♑	
	14042 Aug 22 19:38	0°♓					
greatest brilliancy	14042 Sep 18 18:24	18°♓28'15	-4.9m	superior conj	14045 Mar 11 05:46	0°♑42'43	0°13'34
retrograde	14042 Sep 29 17:38	20°♓41'38		minimum elong	14045 Mar 11 08:52	0°♑52'19	0°13'31
desc. node	14042 Sep 29 23:43	20°♓41'33		behind sun begin	14045 Mar 10 20:07	0°♑12'56	
evening set	14042 Oct 14 20:44	16°♓13'11		behind sun end	14045 Mar 11 21:38	1°♑31'42	
min. Earth dist.	14042 Oct 19 22:21	13°♓13'37	0.27584 AU	desc. node	14045 Mar 16 20:39	7°♑39'00	
inferior conj	14042 Oct 20 18:10	12°♓43'10	-5°01'23		14045 Apr 03 22:49	0°♒	
minimum elong	14042 Oct 20 08:17	12°♓58'21	4°58'08	evening rise	14045 Apr 18 13:19	18°♒04'19	
morning rise	14042 Oct 25 20:30	9°♓41'16			14045 Apr 28 04:24	0°♑	
direct	14042 Nov 10 17:16	4°♓54'04			14045 May 22 08:43	0°♒	
greatest brilliancy	14042 Nov 20 03:28	6°♓31'48	-4.8m		14045 Jun 15 13:03	0°♓	
	14042 Dec 24 05:42	0°♐		asc. node	14045 Jul 07 10:52	27°♓04'42	
morning max el	14042 Dec 29 18:19	5°♐12'54	45°53'10		14045 Jul 09 19:48	0°♑	
asc. node	14043 Jan 21 02:13	28°♐09'52			14045 Aug 03 08:14	0°♒	
	14043 Jan 22 18:54	0°♑			14045 Aug 28 07:41	0°♓	
	14043 Feb 18 11:55	0°♒			14045 Sep 23 05:32	0°♐	
	14043 Mar 16 01:23	0°♓		evening max el	14045 Oct 20 19:34	29°♐23'38	46°20'47
	14043 Apr 10 00:26	0°♑			14045 Oct 21 10:19	0°♑	
	14043 May 04 14:32	0°♒		desc. node	14045 Oct 27 09:05	5°♑42'42	
desc. node	14043 May 12 23:15	10°♒16'57		greatest brilliancy	14045 Nov 29 06:14	28°♑53'14	-4.8m
	14043 May 28 22:06	0°♑			14045 Dec 02 21:46	0°♒	
	14043 Jun 22 00:41	0°♒		retrograde	14045 Dec 09 13:33	0°♒50'23	
morning set	14043 Jun 29 06:18	9°♒02'31			14045 Dec 16 00:45	30°♒♊	
	14043 Jul 16 00:00	0°♓		evening set	14045 Dec 27 22:28	24°♒31'10	
superior conj	14043 Aug 08 02:53	29°♓00'06	-0°57'06	inferior conj	14045 Dec 31 01:23	22°♒35'07	-8°36'55
minimum elong	14043 Aug 08 14:25	29°♓36'13	0°57'17	minimum elong	14045 Dec 31 06:13	22°♒27'34	8°35'33
max. Earth dist.	14043 Aug 08 06:29	29°♓11'21	1.71459 AU	min. Earth dist.	14045 Dec 30 23:17	22°♒38'25	0.28814 AU
	14043 Aug 08 22:00	0°♑		morning rise	14046 Jan 03 14:00	20°♒24'28	
	14043 Sep 01 20:19	0°♒		direct	14046 Jan 21 08:41	14°♒25'19	
asc. node	14043 Sep 02 13:02	0°♒52'21		greatest brilliancy	14046 Jan 31 18:08	16°♒22'50	-4.7m
evening rise	14043 Sep 16 23:39	18°♒56'20		asc. node	14046 Feb 17 11:48	25°♒51'17	
	14043 Sep 25 20:12	0°♓			14046 Feb 22 20:22	0°♒	
	14043 Oct 19 22:56	0°♐		morning max el	14046 Mar 11 10:37	14°♒55'42	45°46'42
	14043 Nov 13 06:33	0°♑			14046 Mar 26 05:19	0°♓	
	14043 Dec 07 22:01	0°♒			14046 Apr 22 07:15	0°♑	
desc. node	14043 Dec 23 04:55	18°♒19'55		desc. node	14046 May 17 22:23	0°♒	
	14044 Jan 02 01:09	0°♓			14046 Jun 09 11:59	27°♒10'26	
	14044 Jan 27 21:13	0°♑			14046 Jun 11 19:43	0°♑	
	14044 Feb 23 22:04	0°♒			14046 Jul 06 06:16	0°♒	
evening max el	14044 Mar 14 13:08	20°♒10'17	46°04'25		14046 Jul 30 10:23	0°♓	
	14044 Mar 25 01:36	0°♑		morning set	14046 Aug 23 11:23	0°♑	
					14046 Sep 11 12:52	23°♑49'13	

	14046 Sep 16 11:31	0°♌		inferior conj	14049 Mar 11 06:23	0°♏46'30	-1°23'15
asc. node	14046 Sep 30 03:46	17°♌05'19		minimum elong	14049 Mar 11 09:30	0°♏41'36	1°22'11
	14046 Oct 10 11:57	0°♍		min. Earth dist.	14049 Mar 11 13:09	0°♏35'52	0.28376 AU
					14049 Mar 12 12:03	30°♎	
superior conj	14046 Oct 20 14:14	12°♍35'52	0°47'08	asc. node	14049 Mar 16 20:55	27°♎22'35	
minimum elong	14046 Oct 20 04:37	12°♍05'54	0°47'21	morning rise	14049 Mar 17 14:57	26°♎57'30	
max. Earth dist.	14046 Oct 22 12:37	15°♍00'29	1.72103 AU	direct	14049 Apr 01 13:10	22°♎36'03	
	14046 Nov 03 13:25	0°♎		greatest brilliancy	14049 Apr 12 05:46	24°♎43'06	-4.8m
evening rise	14046 Nov 27 04:39	29°♎21'57			14049 Apr 22 12:16	0°♏	
	14046 Nov 27 16:56	0°♏		morning max el	14049 May 21 07:12	24°♏16'10	46°22'51
	14046 Dec 22 00:06	0°♏			14049 May 26 23:28	0°♏	
	14047 Jan 15 12:23	0°♐			14049 Jun 23 11:45	0°♐	
desc. node	14047 Jan 19 17:50	5°♐08'39		desc. node	14049 Jul 06 23:25	15°♐35'03	
	14047 Feb 09 06:40	0°♑			14049 Jul 19 04:09	0°♑	
	14047 Mar 06 07:30	0°♒			14049 Aug 13 01:02	0°♒	
	14047 Mar 31 17:15	0°♐			14049 Sep 06 12:35	0°♑	
	14047 Apr 26 20:08	0°♑			14049 Sep 30 19:59	0°♌	
asc. node	14047 May 12 13:41	17°♑17'09			14049 Oct 25 01:37	0°♍	
	14047 May 24 18:23	0°♒		asc. node	14049 Oct 27 17:56	3°♍19'11	
evening max el	14047 May 27 04:39	2°♒25'46	46°32'56		14049 Nov 18 06:26	0°♎	
	14047 Jun 30 07:27	0°♑		morning set	14049 Nov 22 09:54	5°♎08'19	
greatest brilliancy	14047 Jul 06 12:38	2°♑43'39	-4.9m		14049 Dec 12 11:09	0°♏	
retrograde	14047 Jul 16 05:21	4°♑29'41					
	14047 Jul 31 07:50	30°♎		superior conj	14049 Dec 29 13:58	21°♏11'55	1°24'32
evening set	14047 Aug 01 09:58	29°♒23'21		minimum elong	14049 Dec 29 17:53	21°♏24'01	1°25'31
inferior conj	14047 Aug 05 20:08	26°♒44'39	6°22'23	max. Earth dist.	14049 Dec 31 13:30	23°♏38'52	1.72949 AU
minimum elong	14047 Aug 06 07:19	26°♒27'34	6°19'05		14050 Jan 05 16:47	0°♏	
min. Earth dist.	14047 Aug 06 08:45	26°♒25'23	0.27054 AU		14050 Jan 30 00:19	0°♎	
morning rise	14047 Aug 11 04:35	23°♒34'32		evening rise	14050 Feb 04 22:01	7°♎16'03	
direct	14047 Aug 26 14:25	18°♒55'35		desc. node	14050 Feb 16 07:53	21°♎17'45	
desc. node	14047 Sep 01 16:42	19°♒38'57			14050 Feb 23 10:05	0°♏	
greatest brilliancy	14047 Sep 05 17:48	20°♒51'41	-4.9m		14050 Mar 19 21:35	0°♒	
	14047 Sep 21 20:10	0°♑			14050 Apr 13 10:23	0°♐	
morning max el	14047 Oct 15 18:43	21°♑05'14	46°37'13		14050 May 08 01:26	0°♑	
	14047 Oct 24 13:33	0°♌			14050 Jun 01 22:04	0°♒	
	14047 Nov 21 02:19	0°♍		asc. node	14050 Jun 09 00:26	8°♒28'25	
	14047 Dec 17 03:09	0°♎			14050 Jun 27 07:27	0°♑	
asc. node	14047 Dec 23 17:31	7°♎45'27			14050 Jul 23 21:34	0°♌	
	14048 Jan 11 10:23	0°♏		evening max el	14050 Aug 08 00:42	15°♌50'56	46°43'54
	14048 Feb 05 07:14	0°♏			14050 Aug 23 01:33	0°♍	
	14048 Feb 29 21:46	0°♐		greatest brilliancy	14050 Sep 16 10:03	16°♍09'55	-4.9m
	14048 Mar 25 08:16	0°♏		retrograde	14050 Sep 27 07:31	18°♍21'54	
morning set	14048 Apr 12 18:56	22°♏45'23		desc. node	14050 Sep 29 01:41	18°♍18'12	
desc. node	14048 Apr 13 11:08	23°♏35'27		evening set	14050 Oct 12 08:35	13°♍57'13	
	14048 Apr 18 15:30	0°♒		min. Earth dist.	14050 Oct 17 13:14	10°♍53'36	0.27529 AU
	14048 May 12 19:32	0°♐		inferior conj	14050 Oct 18 08:06	10°♍24'37	-4°42'19
max. Earth dist.	14048 May 19 01:47	7°♐47'41	1.72079 AU	minimum elong	14050 Oct 17 22:36	10°♍39'13	4°39'08
				morning rise	14050 Oct 23 13:12	7°♍18'42	
superior conj	14048 May 22 04:02	11°♐39'03	-1°16'59	direct	14050 Nov 08 06:18	2°♍36'11	
minimum elong	14048 May 21 18:27	11°♐09'11	1°17'43	greatest brilliancy	14050 Nov 17 17:40	4°♍14'26	-4.8m
	14048 Jun 05 20:44	0°♑			14050 Dec 24 06:18	0°♎	
	14048 Jun 29 20:12	0°♒		morning max el	14050 Dec 27 07:07	2°♎53'33	45°54'13
evening rise	14048 Jun 30 19:08	1°♒11'46		asc. node	14051 Jan 20 04:16	27°♎30'58	
	14048 Jul 23 19:37	0°♑			14051 Jan 22 11:02	0°♏	
asc. node	14048 Aug 04 00:30	13°♑59'42			14051 Feb 18 01:16	0°♏	
	14048 Aug 16 20:46	0°♌			14051 Mar 15 13:26	0°♐	
	14048 Sep 10 01:36	0°♍			14051 Apr 09 11:49	0°♏	
	14048 Oct 04 13:10	0°♎			14051 May 04 01:33	0°♒	
	14048 Oct 29 12:51	0°♏		desc. node	14051 May 12 01:01	9°♒48'44	
desc. node	14048 Nov 23 19:11	29°♏16'08			14051 May 28 08:55	0°♐	
	14048 Nov 24 10:44	0°♏			14051 Jun 21 11:24	0°♑	
	14048 Dec 22 05:53	0°♐		morning set	14051 Jun 26 17:53	6°♑35'11	
evening max el	14048 Dec 31 01:42	8°♐45'26	45°57'45		14051 Jul 15 10:41	0°♒	
	14049 Jan 25 10:12	0°♏					
greatest brilliancy	14049 Feb 08 00:59	7°♏06'11	-4.8m	superior conj	14051 Aug 05 14:50	26°♒33'38	-0°59'58
retrograde	14049 Feb 18 00:36	8°♏54'34		minimum elong	14051 Aug 06 02:30	27°♒10'12	1°00'12
evening set	14049 Mar 05 03:50	4°♏27'16		max. Earth dist.	14051 Aug 05 11:23	26°♒22'49	1.71457 AU

	14051 Aug 08 08:38	0°♍		morning max el	14054 Mar 09 02:47	12°45'45	45°46'05
	14051 Sep 01 06:58	0°♌			14054 Mar 25 22:31	0°♋	
asc. node	14051 Sep 01 14:56	0°♌24'58			14054 Apr 21 21:02	0°♐	
evening rise	14051 Sep 14 12:55	16°♌34'27			14054 May 17 10:44	0°♉	
	14051 Sep 25 06:53	0°♍		desc. node	14054 Jun 08 13:54	26°♉40'49	
	14051 Oct 19 09:43	0°♎			14054 Jun 11 07:19	0°♊	
	14051 Nov 12 17:31	0°♏			14054 Jul 05 17:26	0°♋	
	14051 Dec 07 09:25	0°♐			14054 Jul 29 21:17	0°♌	
desc. node	14051 Dec 22 06:49	17°♐50'19			14054 Aug 22 22:07	0°♍	
	14052 Jan 01 13:22	0°♋		morning set	14054 Sep 09 01:56	21°♍26'52	
	14052 Jan 27 10:59	0°♐			14054 Sep 15 22:07	0°♌	
	14052 Feb 23 15:15	0°♉		asc. node	14054 Sep 29 05:27	16°♌37'42	
evening max el	14052 Mar 12 02:54	17°♉52'33	46°03'42		14054 Oct 09 22:28	0°♍	
	14052 Mar 25 06:34	0°♊					
asc. node	14052 Apr 13 06:00	13°♊44'51		superior conj	14054 Oct 18 04:28	10°♍17'47	0°44'04
greatest brilliancy	14052 Apr 20 18:49	17°♊10'42	-4.8m	minimum elong	14054 Oct 17 19:14	9°♍48'58	0°44'16
retrograde	14052 Apr 30 13:05	18°♊57'36		max. Earth dist.	14054 Oct 20 03:55	12°♍45'46	1.72074 AU
evening set	14052 May 17 04:38	13°♊36'25			14054 Nov 02 23:53	0°♎	
inferior conj	14052 May 21 11:12	11°♊00'02	7°58'10	evening rise	14054 Nov 24 20:26	27°♎09'35	
minimum elong	14052 May 21 01:47	11°♊14'43	7°55'46		14054 Nov 27 03:27	0°♏	
min. Earth dist.	14052 May 21 12:55	10°♊57'22	0.27832 AU		14054 Dec 21 10:43	0°♐	
morning rise	14052 May 24 22:46	8°♊51'08			14055 Jan 14 23:15	0°♋	
direct	14052 Jun 11 10:24	2°♊55'52		desc. node	14055 Jan 18 19:49	4°♋41'28	
greatest brilliancy	14052 Jun 21 12:24	4°♊50'07	-4.9m		14055 Feb 08 17:57	0°♐	
	14052 Jul 26 04:06	0°♋			14055 Mar 05 19:29	0°♉	
morning max el	14052 Jul 31 20:57	5°♋36'33	46°56'30		14055 Mar 31 06:27	0°♊	
desc. node	14052 Aug 03 09:36	8°♋10'14			14055 Apr 26 11:47	0°♋	
	14052 Aug 23 17:39	0°♌		asc. node	14055 May 11 15:33	16°♋33'11	
	14052 Sep 18 20:54	0°♍			14055 May 24 16:25	0°♌	
	14052 Oct 14 03:06	0°♌		evening max el	14055 May 24 19:04	0°♌06'35	46°31'54
	14052 Nov 07 23:41	0°♍			14055 Jul 03 03:38	0°♍	
asc. node	14052 Nov 24 07:19	19°♍51'14		greatest brilliancy	14055 Jul 04 02:01	0°♍20'15	-4.9m
	14052 Dec 02 14:42	0°♎		retrograde	14055 Jul 13 18:27	2°♍05'28	
	14052 Dec 27 01:54	0°♏			14055 Jul 23 21:43	30°♎♌	
	14053 Jan 20 10:47	0°♐		evening set	14055 Jul 30 02:23	26°♌54'15	
morning set	14053 Jan 30 14:44	12°♐31'46		inferior conj	14055 Aug 03 08:55	24°♌20'21	6°39'33
	14053 Feb 13 18:42	0°♋		minimum elong	14055 Aug 03 20:08	24°♌03'11	6°36'19
max. Earth dist.	14053 Mar 08 02:31	27°♋32'30	1.73054 AU	min. Earth dist.	14055 Aug 03 21:46	24°♌00'41	0.27074 AU
				morning rise	14055 Aug 08 13:48	21°♌14'54	
superior conj	14053 Mar 08 21:31	28°♋31'09	0°16'58	direct	14055 Aug 24 03:48	16°♌31'06	
minimum elong	14053 Mar 09 01:23	28°♋43'03	0°16'54	desc. node	14055 Aug 31 18:40	17°♌38'01	
	14053 Mar 10 02:19	0°♐		greatest brilliancy	14055 Sep 03 06:11	18°♌26'21	-4.9m
desc. node	14053 Mar 15 22:28	7°♐12'29			14055 Sep 22 13:00	0°♍	
	14053 Apr 03 09:18	0°♉		morning max el	14055 Oct 13 08:31	18°♍44'28	46°38'29
evening rise	14053 Apr 16 04:19	15°♉49'33			14055 Oct 24 09:03	0°♌	
	14053 Apr 27 15:00	0°♊			14055 Nov 20 17:11	0°♍	
	14053 May 21 19:31	0°♋			14055 Dec 16 16:00	0°♎	
	14053 Jun 15 00:09	0°♌		asc. node	14055 Dec 22 19:29	7°♎14'18	
asc. node	14053 Jul 06 12:50	26°♌35'27			14056 Jan 10 22:10	0°♏	
	14053 Jul 09 07:19	0°♍			14056 Feb 04 18:24	0°♐	
	14053 Aug 02 20:26	0°♌			14056 Feb 29 08:34	0°♋	
	14053 Aug 27 21:01	0°♍			14056 Mar 24 18:51	0°♐	
	14053 Sep 22 21:11	0°♎		morning set	14056 Apr 10 09:33	20°♐29'45	
evening max el	14053 Oct 18 10:52	27°♎09'24	46°21'57	desc. node	14056 Apr 12 12:55	23°♐08'29	
	14053 Oct 21 08:39	0°♏			14056 Apr 18 02:00	0°♉	
desc. node	14053 Oct 26 11:00	4°♏49'07			14056 May 12 06:02	0°♊	
greatest brilliancy	14053 Nov 26 20:24	26°♏40'01	-4.8m	max. Earth dist.	14056 May 16 12:38	5°♊19'18	1.72118 AU
retrograde	14053 Dec 07 05:54	28°♏38'58					
evening set	14053 Dec 25 15:21	22°♏17'36		superior conj	14056 May 19 17:17	9°♊18'01	-1°15'09
inferior conj	14053 Dec 28 16:59	20°♏23'37	-8°41'26	minimum elong	14056 May 19 07:15	8°♊46'44	1°15'50
minimum elong	14053 Dec 28 21:05	20°♏17'13	8°40'11		14056 Jun 05 07:18	0°♋	
min. Earth dist.	14053 Dec 28 13:28	20°♏29'06	0.28800 AU	evening rise	14056 Jun 28 06:53	28°♋44'54	
morning rise	14054 Jan 01 02:53	18°♏17'19			14056 Jun 29 06:53	0°♌	
direct	14054 Jan 19 00:22	12°♏14'16			14056 Jul 23 06:26	0°♍	
greatest brilliancy	14054 Jan 29 08:08	14°♏10'42	-4.7m	asc. node	14056 Aug 03 02:21	13°♎31'29	
asc. node	14054 Feb 16 13:48	24°♏44'16			14056 Aug 16 07:46	0°♌	
	14054 Feb 23 03:23	0°♐			14056 Sep 09 12:54	0°♍	

	14056 Oct 04 00:58	0°♊			14059 May 03 12:40	0°♋		
	14056 Oct 29 01:36	0°♌		desc. node	14059 May 11 02:56	9°♋20'41		
desc. node	14056 Nov 22 21:10	28°♌40'42			14059 May 27 19:50	0°♍		
	14056 Nov 24 01:22	0°♎			14059 Jun 20 22:11	0°♏		
	14056 Dec 22 01:25	0°♐		morning set	14059 Jun 24 05:49	4°♏08'47		
evening max el	14056 Dec 28 16:35	6°♐32'20 45°58'05			14059 Jul 14 21:23	0°♑		
	14057 Jan 26 12:32	0°♒						
greatest brilliancy	14057 Feb 05 17:09	4°♒55'00 -4.8m		superior conj	14059 Aug 03 03:03	24°♑07'49 -1°02'42		
retrograde	14057 Feb 15 15:17	6°♒42'13		minimum elong	14059 Aug 03 14:46	24°♑44'35 1°02'59		
evening set	14057 Mar 02 20:49	2°♒12'51		max. Earth dist.	14059 Aug 02 20:03	23°♑45'52 1.71458 AU		
	14057 Mar 06 14:55	30°♐			14059 Aug 07 19:20	0°♑		
inferior conj	14057 Mar 08 21:54	28°♐34'06 -1°44'16		asc. node	14059 Aug 31 16:40	29°♑56'46		
minimum elong	14057 Mar 09 01:46	28°♐28'00 1°42'57			14059 Aug 31 17:42	0°♒		
min. Earth dist.	14057 Mar 09 05:22	28°♐22'21 0.28397 AU		evening rise	14059 Sep 12 02:15	14°♒12'30		
morning rise	14057 Mar 15 06:26	24°♐44'42			14059 Sep 24 17:43	0°♒		
asc. node	14057 Mar 15 22:48	24°♐22'39			14059 Oct 18 20:41	0°♊		
direct	14057 Mar 30 04:28	20°♐23'31			14059 Nov 12 04:45	0°♌		
greatest brilliancy	14057 Apr 09 21:57	22°♐30'44 -4.8m			14059 Dec 06 21:07	0°♍		
	14057 Apr 23 11:48	0°♒		desc. node	14059 Dec 21 08:47	17°♍20'01		
morning max el	14057 May 18 21:04	21°♒58'08 46°21'20			14060 Jan 01 01:56	0°♐		
	14057 May 26 18:52	0°♋			14060 Jan 27 01:12	0°♑		
	14057 Jun 23 02:31	0°♍			14060 Feb 23 09:09	0°♋		
desc. node	14057 Jul 06 01:29	15°♍01'05		evening max el	14060 Mar 09 17:31	15°♋36'15 46°03'03		
	14057 Jul 18 17:07	0°♏			14060 Mar 25 14:09	0°♍		
	14057 Aug 12 13:06	0°♑		asc. node	14060 Apr 12 08:00	12°♍13'50		
	14057 Sep 06 00:06	0°♑		greatest brilliancy	14060 Apr 18 07:37	14°♍50'18 -4.8m		
	14057 Sep 30 07:07	0°♒		retrograde	14060 Apr 28 03:30	16°♍38'31		
	14057 Oct 24 12:28	0°♒		evening set	14060 May 14 14:38	11°♍22'39		
asc. node	14057 Oct 26 19:49	2°♒51'29		inferior conj	14060 May 19 01:22	8°♍40'16 7°46'25		
	14057 Nov 17 17:05	0°♊		minimum elong	14060 May 18 15:32	8°♍55'35 7°43'52		
morning set	14057 Nov 20 01:13	2°♊54'05		min. Earth dist.	14060 May 19 02:26	8°♍38'37 0.27849 AU		
	14057 Dec 11 21:41	0°♌		morning rise	14060 May 22 16:17	6°♍26'33		
				direct	14060 Jun 09 01:02	0°♍35'45		
superior conj	14057 Dec 27 06:34	19°♌02'17 1°25'08		greatest brilliancy	14060 Jun 19 02:48	2°♍30'16 -4.9m		
minimum elong	14057 Dec 27 09:45	19°♌12'09 1°26'09			14060 Jul 26 04:13	0°♏		
max. Earth dist.	14057 Dec 29 05:21	21°♌27'02 1.72927 AU		morning max el	14060 Jul 29 12:18	3°♏18'45 46°56'16		
	14058 Jan 05 03:17	0°♎		desc. node	14060 Aug 02 11:29	7°♏20'58		
	14058 Jan 29 10:53	0°♐			14060 Aug 23 10:09	0°♑		
evening rise	14058 Feb 02 13:58	5°♐04'49			14060 Sep 18 10:46	0°♑		
desc. node	14058 Feb 15 09:42	20°♐50'29			14060 Oct 13 15:41	0°♒		
	14058 Feb 22 20:48	0°♒			14060 Nov 07 11:30	0°♒		
	14058 Mar 19 08:34	0°♋		asc. node	14060 Nov 23 09:16	19°♒22'16		
	14058 Apr 12 21:44	0°♍			14060 Dec 02 02:01	0°♊		
	14058 May 07 13:20	0°♏			14060 Dec 26 12:53	0°♌		
	14058 Jun 01 10:53	0°♑			14061 Jan 19 21:34	0°♍		
asc. node	14058 Jun 08 02:28	7°♑55'17		morning set	14061 Jan 28 07:41	10°♍22'54		
	14058 Jun 26 21:55	0°♑			14061 Feb 13 05:24	0°♐		
	14058 Jul 23 15:47	0°♒		max. Earth dist.	14061 Mar 05 23:35	25°♐36'23 1.73070 AU		
evening max el	14058 Aug 05 13:45	13°♒27'12 46°44'01						
	14058 Aug 23 10:04	0°♒		superior conj	14061 Mar 06 13:03	26°♐17'54 0°20'20		
greatest brilliancy	14058 Sep 14 01:14	13°♒50'01 -4.9m		minimum elong	14061 Mar 06 17:37	26°♐32'02 0°20'17		
retrograde	14058 Sep 24 21:12	16°♒01'09			14061 Mar 09 13:02	0°♒		
desc. node	14058 Sep 28 03:38	15°♒48'14		desc. node	14061 Mar 15 00:11	6°♒44'44		
evening set	14058 Oct 09 20:20	11°♒39'31			14061 Apr 02 20:06	0°♋		
min. Earth dist.	14058 Oct 15 03:59	8°♒32'08 0.27480 AU		evening rise	14061 Apr 13 19:10	13°♋33'24		
inferior conj	14058 Oct 15 21:47	8°♒04'49 -4°22'29			14061 Apr 27 01:57	0°♍		
minimum elong	14058 Oct 15 12:43	8°♒18'43 4°19'24			14061 May 21 06:40	0°♏		
morning rise	14058 Oct 21 05:37	4°♒55'07			14061 Jun 14 11:35	0°♑		
direct	14058 Nov 05 18:52	0°♒16'43		asc. node	14061 Jul 05 14:41	26°♑04'50		
greatest brilliancy	14058 Nov 15 08:00	1°♒56'08 -4.8m			14061 Jul 08 19:11	0°♑		
	14058 Dec 24 05:59	0°♊			14061 Aug 02 08:56	0°♒		
morning max el	14058 Dec 24 20:27	0°♊34'48 45°55'25			14061 Aug 27 10:41	0°♒		
asc. node	14059 Jan 19 06:17	26°♊51'58			14061 Sep 22 13:17	0°♊		
	14059 Jan 22 03:01	0°♌		evening max el	14061 Oct 16 02:56	24°♊56'24 46°22'57		
	14059 Feb 17 14:37	0°♍			14061 Oct 21 08:13	0°♌		
	14059 Mar 15 01:33	0°♐		desc. node	14061 Oct 25 13:00	3°♌54'02		
	14059 Apr 08 23:17	0°♒		greatest brilliancy	14061 Nov 24 10:39	24°♌26'02 -4.8m		

retrograde	14061 Dec 04 22:06	26° $\text{♁}$ 26'22		minimum elong	14064 May 16 20:01	6° $\text{♁}$ 23'09	1°13'49
evening set	14061 Dec 23 07:55	20° $\text{♁}$ 03'34			14064 Jun 04 18:14	0° $\text{♁}$	
inferior conj	14061 Dec 26 08:35	18° $\text{♁}$ 11'00	-8°45'11	evening rise	14064 Jun 25 18:34	26° $\text{♁}$ 16'46	
minimum elong	14061 Dec 26 11:54	18° $\text{♁}$ 05'48	8°44'00		14064 Jun 28 17:55	0° $\text{♁}$	
min. Earth dist.	14061 Dec 26 03:34	18° $\text{♁}$ 18'49	0.28787 AU		14064 Jul 22 17:36	0° $\text{♁}$	
morning rise	14061 Dec 29 16:00	16° $\text{♁}$ 08'33		asc. node	14064 Aug 02 04:07	13° $\text{♁}$ 01'52	
direct	14062 Jan 16 16:25	10° $\text{♁}$ 02'14			14064 Aug 15 19:08	0° $\text{♁}$	
greatest brilliancy	14062 Jan 26 21:48	11° $\text{♁}$ 56'53	-4.7m		14064 Sep 09 00:35	0° $\text{♁}$	
asc. node	14062 Feb 15 15:41	23° $\text{♁}$ 37'37			14064 Oct 03 13:10	0° $\text{♁}$	
	14062 Feb 23 08:45	0° $\text{♁}$			14064 Oct 28 14:43	0° $\text{♁}$	
morning max el	14062 Mar 06 18:44	10° $\text{♁}$ 33'59	45°45'25	desc. node	14064 Nov 21 23:12	28° $\text{♁}$ 04'30	
	14062 Mar 25 15:49	0° $\text{♁}$			14064 Nov 23 16:27	0° $\text{♁}$	
	14062 Apr 21 11:06	0° $\text{♁}$			14064 Dec 21 21:46	0° $\text{♁}$	
	14062 May 16 23:23	0° $\text{♁}$		evening max el	14064 Dec 26 06:46	4° $\text{♁}$ 17'02	45°58'29
desc. node	14062 Jun 07 15:50	26° $\text{♁}$ 10'18			14065 Jan 28 02:27	0° $\text{♁}$	
	14062 Jun 10 19:14	0° $\text{♁}$		greatest brilliancy	14065 Feb 03 09:09	2° $\text{♁}$ 43'22	-4.8m
	14062 Jul 05 04:56	0° $\text{♁}$		retrograde	14065 Feb 13 06:03	4° $\text{♁}$ 29'56	
	14062 Jul 29 08:32	0° $\text{♁}$		evening set	14065 Feb 28 14:04	29° $\text{♁}$ 57'53	
	14062 Aug 22 09:11	0° $\text{♁}$			14065 Feb 28 12:32	30° $\text{♁}$	
morning set	14062 Sep 06 15:17	19° $\text{♁}$ 04'22		inferior conj	14065 Mar 06 13:36	26° $\text{♁}$ 21'32	-2°04'55
	14062 Sep 15 09:02	0° $\text{♁}$		minimum elong	14065 Mar 06 18:12	26° $\text{♁}$ 14'18	2°03'21
asc. node	14062 Sep 28 07:19	16° $\text{♁}$ 09'39		min. Earth dist.	14065 Mar 06 21:52	26° $\text{♁}$ 08'33	0.28425 AU
	14062 Oct 09 09:16	0° $\text{♁}$		morning rise	14065 Mar 12 21:58	22° $\text{♁}$ 32'05	
				asc. node	14065 Mar 15 00:51	21° $\text{♁}$ 25'45	
superior conj	14062 Oct 15 19:02	7° $\text{♁}$ 59'52	0°40'58	direct	14065 Mar 27 19:47	18° $\text{♁}$ 10'31	
minimum elong	14062 Oct 15 10:14	7° $\text{♁}$ 32'23	0°41'07	greatest brilliancy	14065 Apr 07 14:58	20° $\text{♁}$ 18'48	-4.8m
max. Earth dist.	14062 Oct 17 20:47	10° $\text{♁}$ 35'03	1.72040 AU		14065 Apr 24 05:30	0° $\text{♁}$	
	14062 Nov 02 10:38	0° $\text{♁}$		morning max el	14065 May 16 11:24	19° $\text{♁}$ 40'15	46°19'47
evening rise	14062 Nov 22 12:33	24° $\text{♁}$ 57'20			14065 May 26 14:07	0° $\text{♁}$	
	14062 Nov 26 14:14	0° $\text{♁}$			14065 Jun 22 17:28	0° $\text{♁}$	
	14062 Dec 20 21:40	0° $\text{♁}$		desc. node	14065 Jul 05 03:21	14° $\text{♁}$ 25'42	
	14063 Jan 14 10:29	0° $\text{♁}$			14065 Jul 18 06:20	0° $\text{♁}$	
desc. node	14063 Jan 17 21:35	4° $\text{♁}$ 12'34			14065 Aug 12 01:24	0° $\text{♁}$	
	14063 Feb 08 05:39	0° $\text{♁}$			14065 Sep 05 11:50	0° $\text{♁}$	
	14063 Mar 05 07:56	0° $\text{♁}$			14065 Sep 29 18:28	0° $\text{♁}$	
	14063 Mar 30 20:13	0° $\text{♁}$			14065 Oct 23 23:33	0° $\text{♁}$	
	14063 Apr 26 04:10	0° $\text{♁}$		asc. node	14065 Oct 25 21:43	2° $\text{♁}$ 23'05	
asc. node	14063 May 10 17:38	15° $\text{♁}$ 47'56			14065 Nov 17 03:59	0° $\text{♁}$	
evening max el	14063 May 22 08:47	27° $\text{♁}$ 44'26	46°30'49	morning set	14065 Nov 17 16:38	0° $\text{♁}$ 39'15	
	14063 May 24 15:55	0° $\text{♁}$			14065 Dec 11 08:27	0° $\text{♁}$	
greatest brilliancy	14063 Jul 01 15:56	27° $\text{♁}$ 56'16	-4.9m				
retrograde	14063 Jul 11 06:57	29° $\text{♁}$ 40'00		superior conj	14065 Dec 24 23:28	16° $\text{♁}$ 52'58	1°25'37
evening set	14063 Jul 27 18:50	24° $\text{♁}$ 23'57		minimum elong	14065 Dec 25 01:56	17° $\text{♁}$ 00'35	1°26'39
inferior conj	14063 Jul 31 21:43	21° $\text{♁}$ 55'00	6°55'55	max. Earth dist.	14065 Dec 26 21:07	19° $\text{♁}$ 14'13	1.72901 AU
minimum elong	14063 Aug 01 08:51	21° $\text{♁}$ 37'54	6°52'48		14066 Jan 04 13:58	0° $\text{♁}$	
min. Earth dist.	14063 Aug 01 11:05	21° $\text{♁}$ 34'29	0.27094 AU		14066 Jan 28 21:37	0° $\text{♁}$	
morning rise	14063 Aug 05 22:48	18° $\text{♁}$ 54'21		evening rise	14066 Jan 31 06:21	2° $\text{♁}$ 54'32	
direct	14063 Aug 21 16:44	14° $\text{♁}$ 05'21		desc. node	14066 Feb 14 11:30	20° $\text{♁}$ 22'45	
desc. node	14063 Aug 30 20:37	15° $\text{♁}$ 40'39			14066 Feb 22 07:42	0° $\text{♁}$	
greatest brilliancy	14063 Aug 31 19:10	16° $\text{♁}$ 00'20	-4.9m		14066 Mar 18 19:44	0° $\text{♁}$	
	14063 Sep 23 02:06	0° $\text{♁}$			14066 Apr 12 09:20	0° $\text{♁}$	
morning max el	14063 Oct 10 21:30	16° $\text{♁}$ 20'26	46°39'59		14066 May 07 01:33	0° $\text{♁}$	
	14063 Oct 24 04:20	0° $\text{♁}$			14066 Jun 01 00:04	0° $\text{♁}$	
	14063 Nov 20 08:07	0° $\text{♁}$		asc. node	14066 Jun 07 04:20	7° $\text{♁}$ 20'35	
	14063 Dec 16 05:00	0° $\text{♁}$			14066 Jun 26 12:53	0° $\text{♁}$	
asc. node	14063 Dec 21 21:25	6° $\text{♁}$ 42'26			14066 Jul 23 10:49	0° $\text{♁}$	
	14064 Jan 10 10:09	0° $\text{♁}$		evening max el	14066 Aug 03 02:55	11° $\text{♁}$ 03'04	46°44'15
	14064 Feb 04 05:49	0° $\text{♁}$			14066 Aug 23 22:01	0° $\text{♁}$	
	14064 Feb 28 19:40	0° $\text{♁}$		greatest brilliancy	14066 Sep 11 15:46	11° $\text{♁}$ 28'31	-4.9m
	14064 Mar 24 05:47	0° $\text{♁}$		retrograde	14066 Sep 22 11:11	13° $\text{♁}$ 39'37	
morning set	14064 Apr 08 00:04	18° $\text{♁}$ 12'41		desc. node	14066 Sep 27 05:42	13° $\text{♁}$ 11'52	
desc. node	14064 Apr 11 14:51	22° $\text{♁}$ 40'50		evening set	14066 Oct 07 08:11	9° $\text{♁}$ 20'24	
	14064 Apr 17 12:52	0° $\text{♁}$		inferior conj	14066 Oct 13 11:20	5° $\text{♁}$ 44'01	-4°02'07
	14064 May 11 16:54	0° $\text{♁}$		minimum elong	14066 Oct 13 02:48	5° $\text{♁}$ 57'05	3°59'08
max. Earth dist.	14064 May 13 23:09	2° $\text{♁}$ 48'45	1.72158 AU	min. Earth dist.	14066 Oct 12 18:27	6° $\text{♁}$ 09'52	0.27432 AU
				morning rise	14066 Oct 18 21:52	2° $\text{♁}$ 30'51	
superior conj	14064 May 17 06:26	6° $\text{♁}$ 55'34	-1°13'10		14066 Oct 24 03:10	30° $\text{♁}$	

direct	14066 Nov 03 07:37	27°♄56'06			14069 Apr 26 12:41	0°♈		
greatest brilliancy	14066 Nov 12 22:05	29°♄36'48	-4.8m		14069 May 20 17:36	0°♉		
	14066 Nov 14 00:28	0°♊			14069 Jun 13 22:51	0°♊		
morning max el	14066 Dec 22 10:46	28°♊18'00	45°56'47	asc. node	14069 Jul 04 16:30	25°♊34'30		
	14066 Dec 24 04:48	0°♋			14069 Jul 08 06:56	0°♋		
asc. node	14067 Jan 18 08:06	26°♋12'31			14069 Aug 01 21:25	0°♌		
	14067 Jan 21 18:50	0°♍			14069 Aug 27 00:25	0°♌		
	14067 Feb 17 03:55	0°♎			14069 Sep 22 05:41	0°♍		
	14067 Mar 14 13:39	0°♏		evening max el	14069 Oct 13 18:51	22°♍42'52	46°23'58	
	14067 Apr 08 10:46	0°♐			14069 Oct 21 08:57	0°♎		
	14067 May 02 23:50	0°♑		desc. node	14069 Oct 24 15:01	2°♎57'50		
desc. node	14067 May 10 04:49	8°♑52'21		greatest brilliancy	14069 Nov 22 01:19	22°♏12'28	-4.8m	
	14067 May 27 06:50	0°♒		retrograde	14069 Dec 02 13:49	24°♏13'23		
	14067 Jun 20 09:06	0°♓		evening set	14069 Dec 21 00:02	17°♓49'57		
morning set	14067 Jun 21 17:31	1°♓41'13		inferior conj	14069 Dec 23 24:00	15°♓58'18	-8°48'20	
	14067 Jul 14 08:15	0°♈		minimum elong	14069 Dec 24 02:31	15°♓54'22	8°47'11	
max. Earth dist.	14067 Jul 31 05:56	21°♈12'13	1.71461 AU	min. Earth dist.	14069 Dec 23 17:40	16°♓08'13	0.28765 AU	
				morning rise	14069 Dec 27 05:07	13°♓59'16		
superior conj	14067 Jul 31 14:48	21°♈40'02	-1°05'20	direct	14070 Jan 14 08:09	7°♓50'20		
minimum elong	14067 Aug 01 02:30	22°♈16'45	1°05'41	greatest brilliancy	14070 Jan 24 11:12	9°♓42'56	-4.7m	
	14067 Aug 07 06:12	0°♉		asc. node	14070 Feb 14 17:47	22°♓33'37		
asc. node	14067 Aug 30 18:31	29°♉28'31			14070 Feb 23 12:01	0°♊		
	14067 Aug 31 04:35	0°♋		morning max el	14070 Mar 04 09:49	8°♊20'47	45°44'54	
evening rise	14067 Sep 09 15:12	11°♋48'57			14070 Mar 25 08:29	0°♋		
	14067 Sep 24 04:39	0°♌			14070 Apr 21 00:42	0°♌		
	14067 Oct 18 07:44	0°♍			14070 May 16 11:37	0°♍		
	14067 Nov 11 16:03	0°♎		desc. node	14070 Jun 06 17:39	25°♍40'35		
	14067 Dec 06 08:54	0°♏			14070 Jun 10 06:44	0°♎		
desc. node	14067 Dec 20 10:36	16°♏49'05			14070 Jul 04 16:02	0°♏		
	14067 Dec 31 14:35	0°♐			14070 Jul 28 19:25	0°♈		
	14068 Jan 26 15:32	0°♑			14070 Aug 21 19:56	0°♉		
	14068 Feb 23 03:21	0°♒		morning set	14070 Sep 04 04:25	16°♉42'02		
evening max el	14068 Mar 07 09:01	13°♒22'47	46°02'29		14070 Sep 14 19:41	0°♊		
	14068 Mar 26 00:12	0°♒		asc. node	14070 Sep 27 09:14	15°♊42'28		
asc. node	14068 Apr 11 10:01	10°♒40'30			14070 Oct 08 19:51	0°♋		
greatest brilliancy	14068 Apr 15 20:24	12°♒31'01	-4.8m					
retrograde	14068 Apr 25 18:11	14°♒20'26		superior conj	14070 Oct 13 09:09	5°♋41'07	0°37'44	
evening set	14068 May 12 01:02	9°♒09'57		minimum elong	14070 Oct 13 00:51	5°♋15'13	0°37'52	
inferior conj	14068 May 16 15:45	6°♒21'33	7°34'01	max. Earth dist.	14070 Oct 15 11:28	8°♋18'06	1.72009 AU	
minimum elong	14068 May 16 05:35	6°♒37'24	7°31'18		14070 Nov 01 21:10	0°♋		
min. Earth dist.	14068 May 16 15:59	6°♒21'12	0.27869 AU	evening rise	14070 Nov 20 04:06	22°♋43'54		
morning rise	14068 May 20 10:03	4°♒02'53			14070 Nov 26 00:49	0°♌		
	14068 May 28 12:50	30°♌♄			14070 Dec 20 08:23	0°♍		
direct	14068 Jun 06 16:15	28°♌16'53			14071 Jan 13 21:29	0°♎		
	14068 Jun 16 04:42	0°♒		desc. node	14071 Jan 16 23:26	3°♎44'38		
greatest brilliancy	14068 Jun 16 17:05	0°♒10'58	-4.9m		14071 Feb 07 17:06	0°♏		
	14068 Jul 26 03:15	0°♓			14071 Mar 04 20:10	0°♐		
morning max el	14068 Jul 27 03:45	1°♓01'20	46°55'36		14071 Mar 30 09:47	0°♑		
desc. node	14068 Aug 01 13:27	6°♓32'47			14071 Apr 25 20:25	0°♒		
	14068 Aug 23 02:25	0°♈		asc. node	14071 May 09 19:34	15°♓03'03		
	14068 Sep 18 00:35	0°♉		evening max el	14071 May 19 21:45	25°♓21'52	46°29'54	
	14068 Oct 13 04:14	0°♊			14071 May 24 15:54	0°♈		
	14068 Nov 06 23:15	0°♋		greatest brilliancy	14071 Jun 29 06:12	25°♈34'44	-4.9m	
asc. node	14068 Nov 22 11:05	18°♋53'04		retrograde	14071 Jul 08 19:15	27°♈17'03		
	14068 Dec 01 13:14	0°♌		evening set	14071 Jul 25 11:29	21°♈55'56		
	14068 Dec 25 23:46	0°♍		inferior conj	14071 Jul 29 10:49	19°♈32'03	7°11'19	
	14069 Jan 19 08:15	0°♎		minimum elong	14071 Jul 29 21:47	19°♈15'11	7°08'20	
morning set	14069 Jan 26 00:42	8°♎14'37		min. Earth dist.	14071 Jul 30 00:47	19°♈10'33	0.27119 AU	
	14069 Feb 12 15:59	0°♏		morning rise	14071 Aug 03 07:57	16°♈36'30		
				direct	14071 Aug 19 05:31	11°♈41'47		
superior conj	14069 Mar 04 04:53	24°♏06'04	0°23'39	greatest brilliancy	14071 Aug 29 08:52	13°♈37'09	-4.9m	
minimum elong	14069 Mar 04 10:09	24°♏22'19	0°23'37	desc. node	14071 Aug 29 22:42	13°♈50'02		
max. Earth dist.	14069 Mar 03 19:35	23°♏37'23	1.73078 AU		14071 Sep 23 11:09	0°♉		
	14069 Mar 08 23:36	0°♐		morning max el	14071 Oct 08 10:15	13°♉56'55	46°41'11	
desc. node	14069 Mar 14 02:08	6°♐18'08			14071 Oct 23 22:40	0°♊		
	14069 Apr 02 06:42	0°♑			14071 Nov 19 22:33	0°♋		
evening rise	14069 Apr 11 10:21	11°♑18'57			14071 Dec 15 17:40	0°♌		

asc. node	14071 Dec 20 23:16	6°♊11'12			14074 Jul 23 05:58	0°♊	
	14072 Jan 09 21:50	0°♊		evening max el	14074 Jul 31 17:06	8°♊42'46	46°44'36
	14072 Feb 03 16:55	0°♊			14074 Aug 24 13:18	0°♊	
	14072 Feb 28 06:25	0°♊		greatest brilliancy	14074 Sep 09 05:52	9°♊07'57	-4.9m
	14072 Mar 23 16:21	0°♊		retrograde	14074 Sep 20 01:42	11°♊19'36	
morning set	14072 Apr 05 14:31	15°♊56'30		desc. node	14074 Sep 26 07:39	10°♊31'46	
desc. node	14072 Apr 10 16:37	22°♊13'49		evening set	14074 Oct 04 20:22	7°♊02'30	
	14072 Apr 16 23:21	0°♊		min. Earth dist.	14074 Oct 10 08:38	3°♊49'29	0.27384 AU
	14072 May 11 03:24	0°♊		inferior conj	14074 Oct 11 00:56	3°♊24'35	-3°41'13
max. Earth dist.	14072 May 11 11:07	0°♊24'00	1.72198 AU	minimum elong	14074 Oct 10 16:59	3°♊36'44	3°38'24
				morning rise	14074 Oct 16 14:05	0°♊08'20	
superior conj	14072 May 14 19:39	4°♊34'38	-1°11'05		14074 Oct 16 20:12	30°♊	
minimum elong	14072 May 14 08:56	4°♊01'15	1°11'39	direct	14074 Oct 31 21:01	25°♊37'04	
	14072 Jun 04 04:46	0°♊		greatest brilliancy	14074 Nov 10 11:39	27°♊18'28	-4.8m
evening rise	14072 Jun 23 06:33	23°♊51'02			14074 Nov 16 19:22	0°♊	
	14072 Jun 28 04:31	0°♊		morning max el	14074 Dec 20 01:40	26°♊03'56	45°57'57
	14072 Jul 22 04:19	0°♊			14074 Dec 24 02:10	0°♊	
asc. node	14072 Aug 01 06:01	12°♊34'11		asc. node	14075 Jan 17 10:10	25°♊35'17	
	14072 Aug 15 06:01	0°♊			14075 Jan 21 10:00	0°♊	
	14072 Sep 08 11:48	0°♊			14075 Feb 16 16:49	0°♊	
	14072 Oct 03 00:58	0°♊			14075 Mar 14 01:28	0°♊	
	14072 Oct 28 03:32	0°♊			14075 Apr 07 22:00	0°♊	
desc. node	14072 Nov 21 01:00	27°♊28'18			14075 May 02 10:44	0°♊	
	14072 Nov 23 07:23	0°♊		desc. node	14075 May 09 06:35	8°♊24'25	
	14072 Dec 21 18:31	0°♊			14075 May 26 17:34	0°♊	
evening max el	14072 Dec 23 20:45	2°♊02'03	45°58'56	morning set	14075 Jun 19 05:05	29°♊14'14	
	14073 Jan 30 14:08	0°♊			14075 Jun 19 19:44	0°♊	
greatest brilliancy	14073 Feb 01 00:32	0°♊31'33	-4.8m		14075 Jul 13 18:51	0°♊	
retrograde	14073 Feb 10 21:02	2°♊18'17		max. Earth dist.	14075 Jul 28 16:53	18°♊42'41	1.71463 AU
	14073 Feb 21 15:56	30°♊					
evening set	14073 Feb 26 07:16	27°♊43'04		superior conj	14075 Jul 29 02:29	19°♊12'48	-1°07'52
inferior conj	14073 Mar 04 05:07	24°♊09'24	-2°25'28	minimum elong	14075 Jul 29 14:03	19°♊49'07	1°08'16
minimum elong	14073 Mar 04 10:26	24°♊01'04	2°23'41		14075 Aug 06 16:48	0°♊	
min. Earth dist.	14073 Mar 04 13:58	23°♊55'31	0.28452 AU	asc. node	14075 Aug 29 20:24	29°♊01'05	
morning rise	14073 Mar 10 13:10	20°♊20'27			14075 Aug 30 15:13	0°♊	
asc. node	14073 Mar 14 02:52	18°♊33'04		evening rise	14075 Sep 07 04:09	9°♊26'07	
direct	14073 Mar 25 11:02	15°♊57'55			14075 Sep 23 15:19	0°♊	
greatest brilliancy	14073 Apr 05 07:48	18°♊07'36	-4.8m		14075 Oct 17 18:31	0°♊	
	14073 Apr 24 18:11	0°♊			14075 Nov 11 03:04	0°♊	
morning max el	14073 May 14 02:22	17°♊25'06	46°18'18		14075 Dec 05 20:26	0°♊	
	14073 May 26 08:24	0°♊		desc. node	14075 Dec 19 12:30	16°♊19'13	
	14073 Jun 22 07:48	0°♊			14075 Dec 31 03:03	0°♊	
desc. node	14073 Jul 04 05:14	13°♊51'53			14076 Jan 26 05:50	0°♊	
	14073 Jul 17 19:01	0°♊			14076 Feb 22 21:56	0°♊	
	14073 Aug 11 13:11	0°♊		evening max el	14076 Mar 05 00:44	11°♊10'04	46°01'43
	14073 Sep 04 23:04	0°♊			14076 Mar 26 13:47	0°♊	
	14073 Sep 29 05:19	0°♊		asc. node	14076 Apr 10 11:56	9°♊03'28	
	14073 Oct 23 10:09	0°♊		greatest brilliancy	14076 Apr 13 09:35	10°♊12'06	-4.8m
asc. node	14073 Oct 24 23:27	1°♊55'40		retrograde	14076 Apr 23 08:25	12°♊01'53	
morning set	14073 Nov 15 08:04	28°♊25'46		evening set	14076 May 09 11:25	6°♊57'02	
	14073 Nov 16 14:26	0°♊		inferior conj	14076 May 14 06:00	4°♊02'43	7°20'48
	14073 Dec 10 18:49	0°♊		minimum elong	14076 May 13 19:35	4°♊18'58	7°17'57
				min. Earth dist.	14076 May 14 05:37	4°♊03'18	0.27884 AU
superior conj	14073 Dec 22 16:10	14°♊44'03	1°25'58	morning rise	14076 May 18 03:40	1°♊38'53	
minimum elong	14073 Dec 22 17:51	14°♊49'18	1°27'00		14076 May 21 01:36	30°♊	
max. Earth dist.	14073 Dec 24 13:13	17°♊03'31	1.72884 AU	direct	14076 Jun 04 07:17	25°♊58'03	
	14074 Jan 04 00:19	0°♊		greatest brilliancy	14076 Jun 14 07:12	27°♊51'25	-4.9m
	14074 Jan 28 08:02	0°♊			14076 Jun 19 05:45	0°♊	
evening rise	14074 Jan 28 22:23	0°♊44'10		morning max el	14076 Jul 24 18:04	28°♊41'25	46°54'56
desc. node	14074 Feb 13 13:23	19°♊56'11			14076 Jul 26 01:13	0°♊	
	14074 Feb 21 18:17	0°♊		desc. node	14076 Jul 31 15:33	5°♊46'06	
	14074 Mar 18 06:37	0°♊			14076 Aug 22 18:15	0°♊	
	14074 Apr 11 20:39	0°♊			14076 Sep 17 14:08	0°♊	
	14074 May 06 13:29	0°♊			14076 Oct 12 16:34	0°♊	
	14074 May 31 13:01	0°♊			14076 Nov 06 10:50	0°♊	
asc. node	14074 Jun 06 06:10	6°♊46'43		asc. node	14076 Nov 21 12:57	18°♊24'29	
	14074 Jun 26 03:42	0°♊			14076 Dec 01 00:18	0°♊	

	14076 Dec 25 10:29	0° $\text{Z}$		inferior conj	14079 Jul 26 23:40	17° $\Omega$ 06'59	7°25'58
	14077 Jan 18 18:46	0° $\approx$		minimum elong	14079 Jul 27 10:23	16° $\Omega$ 50'29	7°23'07
morning set	14077 Jan 23 17:57	6° $\approx$ 07'26		min. Earth dist.	14079 Jul 27 14:20	16° $\Omega$ 44'24	0.27148 AU
	14077 Feb 12 02:28	0° $\text{X}$		morning rise	14079 Jul 31 16:42	14° $\Omega$ 17'03	
				direct	14079 Aug 16 17:55	9° $\Omega$ 15'52	
superior conj	14077 Mar 01 20:51	21° $\text{X}$ 54'56	0°26'55	greatest brilliancy	14079 Aug 26 22:39	11° $\Omega$ 12'18	-4.9m
minimum elong	14077 Mar 02 02:46	22° $\text{X}$ 13'09	0°26'53	desc. node	14079 Aug 29 00:37	12° $\Omega$ 01'46	
max. Earth dist.	14077 Mar 01 14:09	21° $\text{X}$ 34'14	1.73093 AU		14079 Sep 23 18:17	0° $\text{M}$	
	14077 Mar 08 10:07	0° $\text{Y}$		morning max el	14079 Oct 05 23:10	11° $\text{M}$ 32'22	46°42'38
desc. node	14077 Mar 13 03:54	5° $\text{Y}$ 51'06			14079 Oct 23 16:57	0° $\Omega$	
	14077 Apr 01 17:20	0° $\text{Z}$			14079 Nov 19 13:08	0° $\text{M}$	
evening rise	14077 Apr 09 01:22	9° $\text{Z}$ 03'57			14079 Dec 15 06:32	0° $\text{X}$	
	14077 Apr 25 23:28	0° $\text{II}$		asc. node	14079 Dec 20 01:15	5° $\text{X}$ 39'39	
	14077 May 20 04:38	0° $\text{Z}$			14080 Jan 09 09:44	0° $\text{Z}$	
	14077 Jun 13 10:13	0° $\Omega$			14080 Feb 03 04:15	0° $\approx$	
asc. node	14077 Jul 03 18:27	25° $\Omega$ 04'26			14080 Feb 27 17:26	0° $\text{X}$	
	14077 Jul 07 18:46	0° $\text{M}$			14080 Mar 23 03:10	0° $\text{Y}$	
	14077 Aug 01 10:00	0° $\Omega$		morning set	14080 Apr 03 05:30	13° $\text{Y}$ 41'15	
	14077 Aug 26 14:18	0° $\text{M}$		desc. node	14080 Apr 09 18:24	21° $\text{Y}$ 46'01	
	14077 Sep 21 22:24	0° $\text{X}$			14080 Apr 16 10:06	0° $\text{Z}$	
evening max el	14077 Oct 11 10:06	20° $\text{X}$ 27'30	46°24'59	max. Earth dist.	14080 May 09 02:35	28° $\text{Z}$ 09'15	1.72242 AU
	14077 Oct 21 11:03	0° $\text{Z}$			14080 May 10 14:11	0° $\text{II}$	
desc. node	14077 Oct 23 16:55	2° $\text{Z}$ 00'10					
greatest brilliancy	14077 Nov 19 16:46	19° $\text{Z}$ 59'51	-4.8m	superior conj	14080 May 12 09:12	2° $\text{II}$ 13'48	-1°08'52
retrograde	14077 Nov 30 05:10	22° $\text{Z}$ 00'44		minimum elong	14080 May 11 22:14	1° $\text{II}$ 39'41	1°09'24
evening set	14077 Dec 18 15:58	15° $\text{Z}$ 37'23			14080 Jun 03 15:39	0° $\text{Z}$	
inferior conj	14077 Dec 21 15:35	13° $\text{Z}$ 46'09	-8°50'37	evening rise	14080 Jun 20 18:41	21° $\text{Z}$ 24'36	
minimum elong	14077 Dec 21 17:17	13° $\text{Z}$ 43'29	8°49'31		14080 Jun 27 15:31	0° $\Omega$	
min. Earth dist.	14077 Dec 21 08:14	13° $\text{Z}$ 57'38	0.28739 AU		14080 Jul 21 15:28	0° $\text{M}$	
morning rise	14077 Dec 24 18:44	11° $\text{Z}$ 49'55		asc. node	14080 Jul 31 07:51	12° $\text{M}$ 04'48	
direct	14078 Jan 11 23:36	5° $\text{Z}$ 38'57			14080 Aug 14 17:24	0° $\Omega$	
greatest brilliancy	14078 Jan 22 01:09	7° $\text{Z}$ 29'53	-4.7m		14080 Sep 07 23:32	0° $\text{M}$	
asc. node	14078 Feb 13 19:46	21° $\text{Z}$ 31'19			14080 Oct 02 13:16	0° $\text{X}$	
	14078 Feb 23 13:38	0° $\approx$			14080 Oct 27 16:53	0° $\text{Z}$	
morning max el	14078 Mar 01 23:56	6° $\approx$ 05'18	45°44'23	desc. node	14080 Nov 20 03:00	26° $\text{Z}$ 51'15	
	14078 Mar 25 00:49	0° $\text{X}$			14080 Nov 22 22:59	0° $\approx$	
	14078 Apr 20 14:16	0° $\text{Y}$		evening max el	14080 Dec 21 11:20	29° $\approx$ 47'33	45°59'35
	14078 May 15 23:57	0° $\text{Z}$			14080 Dec 21 16:30	0° $\text{X}$	
desc. node	14078 Jun 05 19:35	25° $\text{Z}$ 10'35		greatest brilliancy	14081 Jan 29 15:35	28° $\text{X}$ 18'49	-4.8m
	14078 Jun 09 18:26	0° $\text{II}$			14081 Feb 06 05:16	0° $\text{Y}$	
	14078 Jul 04 03:23	0° $\text{Z}$		retrograde	14081 Feb 08 12:50	0° $\text{Y}$ 06'15	
	14078 Jul 28 06:32	0° $\Omega$			14081 Feb 10 19:47	30° $\text{R}$ $\text{X}$	
	14078 Aug 21 06:53	0° $\text{M}$		evening set	14081 Feb 24 00:47	25° $\text{X}$ 27'40	
morning set	14078 Sep 01 17:19	14° $\text{M}$ 18'17		inferior conj	14081 Mar 01 20:48	21° $\text{X}$ 56'44	-2°45'45
	14078 Sep 14 06:30	0° $\Omega$		minimum elong	14081 Mar 02 02:47	21° $\text{X}$ 47'21	2°43'43
asc. node	14078 Sep 26 10:55	15° $\Omega$ 14'04		min. Earth dist.	14081 Mar 02 05:51	21° $\text{X}$ 42'32	0.28478 AU
	14078 Oct 08 06:34	0° $\text{M}$		morning rise	14081 Mar 08 04:23	18° $\text{X}$ 08'47	
				asc. node	14081 Mar 13 04:46	15° $\text{X}$ 44'33	
superior conj	14078 Oct 10 23:12	3° $\text{M}$ 21'42	0°34'26	direct	14081 Mar 23 02:48	13° $\text{X}$ 44'56	
minimum elong	14078 Oct 10 15:27	2° $\text{M}$ 57'32	0°34'34	greatest brilliancy	14081 Apr 03 00:16	15° $\text{X}$ 55'33	-4.8m
max. Earth dist.	14078 Oct 13 00:36	5° $\text{M}$ 55'51	1.71975 AU		14081 Apr 25 03:49	0° $\text{Y}$	
	14078 Nov 01 07:53	0° $\text{X}$		morning max el	14081 May 11 18:15	15° $\text{Y}$ 11'42	46°16'50
evening rise	14078 Nov 17 19:46	20° $\text{X}$ 30'14			14081 May 26 02:32	0° $\text{Z}$	
	14078 Nov 25 11:34	0° $\text{Z}$			14081 Jun 21 22:18	0° $\text{II}$	
	14078 Dec 19 19:17	0° $\approx$		desc. node	14081 Jul 03 07:17	13° $\text{II}$ 17'44	
	14079 Jan 13 08:38	0° $\text{X}$			14081 Jul 17 07:59	0° $\text{Z}$	
desc. node	14079 Jan 16 01:22	3° $\text{X}$ 16'31			14081 Aug 11 01:22	0° $\Omega$	
	14079 Feb 07 04:43	0° $\text{Y}$			14081 Sep 04 10:46	0° $\text{M}$	
	14079 Mar 04 08:36	0° $\text{Z}$			14081 Sep 28 16:41	0° $\Omega$	
	14079 Mar 29 23:40	0° $\text{II}$			14081 Oct 22 21:16	0° $\text{M}$	
	14079 Apr 25 13:18	0° $\text{Z}$		asc. node	14081 Oct 24 01:20	1° $\text{M}$ 27'05	
asc. node	14079 May 08 21:27	14° $\text{Z}$ 16'22		morning set	14081 Nov 12 23:06	26° $\text{M}$ 09'34	
evening max el	14079 May 17 09:44	22° $\text{Z}$ 55'46	46°28'42		14081 Nov 16 01:21	0° $\text{X}$	
	14079 May 24 17:42	0° $\Omega$			14081 Dec 10 05:36	0° $\text{Z}$	
greatest brilliancy	14079 Jun 26 20:08	23° $\Omega$ 10'56	-4.9m				
retrograde	14079 Jul 06 07:25	24° $\Omega$ 52'12		superior conj	14081 Dec 20 08:37	12° $\text{Z}$ 33'03	1°26'11
evening set	14079 Jul 23 03:53	19° $\Omega$ 25'35		minimum elong	14081 Dec 20 09:32	12° $\text{Z}$ 35'52	1°27'15



max. Earth dist.	14081 Dec 22 07:20	14° $\text{♁}$ 57'42	1.72861 AU	direct	14084 Jun 01 22:05	23° $\text{♁}$ 39'14	
	14082 Jan 03 11:05	0° $\text{♁}$		greatest brilliancy	14084 Jun 11 21:56	25° $\text{♁}$ 32'13	-4.9m
evening rise	14082 Jan 26 14:31	28° $\text{♁}$ 32'46			14084 Jun 21 01:07	0° $\text{♁}$	
	14082 Jan 27 18:52	0° $\text{♁}$		morning max el	14084 Jul 22 07:38	26° $\text{♁}$ 19'09	46°54'21
desc. node	14082 Feb 12 15:11	19° $\text{♁}$ 28'04			14084 Jul 25 22:33	0° $\text{♁}$	
	14082 Feb 21 05:19	0° $\text{♁}$		desc. node	14084 Jul 30 17:23	4° $\text{♁}$ 58'59	
	14082 Mar 17 17:55	0° $\text{♁}$			14084 Aug 22 09:59	0° $\text{♁}$	
	14082 Apr 11 08:20	0° $\text{♁}$			14084 Sep 17 03:43	0° $\text{♁}$	
	14082 May 06 01:47	0° $\text{♁}$			14084 Oct 12 05:01	0° $\text{♁}$	
	14082 May 31 02:22	0° $\text{♁}$			14084 Nov 05 22:35	0° $\text{♁}$	
asc. node	14082 Jun 05 08:14	6° $\text{♁}$ 12'22		asc. node	14084 Nov 20 14:53	17° $\text{♁}$ 55'25	
	14082 Jun 25 19:04	0° $\text{♁}$			14084 Nov 30 11:35	0° $\text{♁}$	
	14082 Jul 23 02:10	0° $\text{♁}$			14084 Dec 24 21:28	0° $\text{♁}$	
evening max el	14082 Jul 29 07:54	6° $\text{♁}$ 22'49	46°44'35		14085 Jan 18 05:34	0° $\text{♁}$	
	14082 Aug 25 10:59	0° $\text{♁}$		morning set	14085 Jan 21 10:54	3° $\text{♁}$ 58'29	
greatest brilliancy	14082 Sep 06 19:39	6° $\text{♁}$ 45'02	-4.9m		14085 Feb 11 13:11	0° $\text{♁}$	
retrograde	14082 Sep 17 16:10	8° $\text{♁}$ 56'58					
desc. node	14082 Sep 25 09:36	7° $\text{♁}$ 43'42		superior conj	14085 Feb 27 12:44	19° $\text{♁}$ 42'56	0°30'09
evening set	14082 Oct 02 08:34	4° $\text{♁}$ 42'01		minimum elong	14085 Feb 27 19:14	20° $\text{♁}$ 02'59	0°30'08
min. Earth dist.	14082 Oct 07 22:27	1° $\text{♁}$ 26'40	0.27340 AU	max. Earth dist.	14085 Feb 27 07:12	19° $\text{♁}$ 25'50	1.73102 AU
inferior conj	14082 Oct 08 14:15	1° $\text{♁}$ 02'34	-3°19'36		14085 Mar 07 20:49	0° $\text{♁}$	
minimum elong	14082 Oct 08 06:57	1° $\text{♁}$ 13'42	3°16'59	desc. node	14085 Mar 12 05:39	5° $\text{♁}$ 23'22	
	14082 Oct 10 07:26	30° $\text{♁}$			14085 Apr 01 04:07	0° $\text{♁}$	
morning rise	14082 Oct 14 05:55	27° $\text{♁}$ 43'20		evening rise	14085 Apr 06 16:27	6° $\text{♁}$ 48'43	
direct	14082 Oct 29 10:35	23° $\text{♁}$ 15'38			14085 Apr 25 10:25	0° $\text{♁}$	
greatest brilliancy	14082 Nov 08 00:37	24° $\text{♁}$ 57'04	-4.8m		14085 May 19 15:49	0° $\text{♁}$	
	14082 Nov 18 13:32	0° $\text{♁}$			14085 Jun 12 21:43	0° $\text{♁}$	
morning max el	14082 Dec 17 16:22	23° $\text{♁}$ 47'41	45°59'13	asc. node	14085 Jul 02 20:18	24° $\text{♁}$ 33'40	
	14082 Dec 23 23:24	0° $\text{♁}$			14085 Jul 07 06:44	0° $\text{♁}$	
asc. node	14083 Jan 16 12:09	24° $\text{♁}$ 56'45			14085 Jul 31 22:42	0° $\text{♁}$	
	14083 Jan 21 01:26	0° $\text{♁}$			14085 Aug 26 04:21	0° $\text{♁}$	
	14083 Feb 16 06:00	0° $\text{♁}$			14085 Sep 21 15:29	0° $\text{♁}$	
	14083 Mar 13 13:35	0° $\text{♁}$		evening max el	14085 Oct 09 00:19	18° $\text{♁}$ 09'18	46°25'50
	14083 Apr 07 09:33	0° $\text{♁}$			14085 Oct 21 14:47	0° $\text{♁}$	
	14083 May 01 21:58	0° $\text{♁}$		desc. node	14085 Oct 22 18:55	1° $\text{♁}$ 01'18	
desc. node	14083 May 08 08:29	7° $\text{♁}$ 55'53		greatest brilliancy	14085 Nov 17 08:15	17° $\text{♁}$ 46'45	-4.8m
	14083 May 26 04:36	0° $\text{♁}$		retrograde	14085 Nov 27 20:10	19° $\text{♁}$ 47'37	
morning set	14083 Jun 16 17:14	26° $\text{♁}$ 48'13		evening set	14085 Dec 16 07:20	13° $\text{♁}$ 24'56	
	14083 Jun 19 06:40	0° $\text{♁}$		inferior conj	14085 Dec 19 07:06	11° $\text{♁}$ 33'28	-8°51'58
	14083 Jul 13 05:44	0° $\text{♁}$		minimum elong	14085 Dec 19 07:57	11° $\text{♁}$ 32'07	8°50'55
max. Earth dist.	14083 Jul 26 04:26	16° $\text{♁}$ 14'13	1.71465 AU	min. Earth dist.	14085 Dec 18 23:01	11° $\text{♁}$ 46'07	0.28717 AU
				morning rise	14085 Dec 22 08:41	9° $\text{♁}$ 39'30	
superior conj	14083 Jul 26 14:39	16° $\text{♁}$ 46'16	-1°10'13	direct	14086 Jan 09 14:37	3° $\text{♁}$ 26'48	
minimum elong	14083 Jul 27 01:59	17° $\text{♁}$ 21'49	1°10'41	greatest brilliancy	14086 Jan 19 15:46	5° $\text{♁}$ 16'55	-4.7m
	14083 Aug 06 03:41	0° $\text{♁}$		asc. node	14086 Feb 12 21:38	20° $\text{♁}$ 29'47	
asc. node	14083 Aug 28 22:08	28° $\text{♁}$ 32'20			14086 Feb 23 14:11	0° $\text{♁}$	
	14083 Aug 30 02:08	0° $\text{♁}$		morning max el	14086 Feb 27 13:41	3° $\text{♁}$ 48'16	45°44'00
evening rise	14083 Sep 04 17:12	7° $\text{♁}$ 02'38			14086 Mar 24 17:00	0° $\text{♁}$	
	14083 Sep 23 02:20	0° $\text{♁}$			14086 Apr 20 03:47	0° $\text{♁}$	
	14083 Oct 17 05:41	0° $\text{♁}$			14086 May 15 12:14	0° $\text{♁}$	
	14083 Nov 10 14:32	0° $\text{♁}$		desc. node	14086 Jun 04 21:30	24° $\text{♁}$ 40'41	
	14083 Dec 05 08:25	0° $\text{♁}$			14086 Jun 09 06:05	0° $\text{♁}$	
desc. node	14083 Dec 18 14:28	15° $\text{♁}$ 48'12			14086 Jul 03 14:40	0° $\text{♁}$	
	14083 Dec 30 16:02	0° $\text{♁}$			14086 Jul 27 17:36	0° $\text{♁}$	
	14084 Jan 25 20:42	0° $\text{♁}$			14086 Aug 20 17:47	0° $\text{♁}$	
	14084 Feb 22 17:24	0° $\text{♁}$		morning set	14086 Aug 30 06:19	11° $\text{♁}$ 54'53	
evening max el	14084 Mar 02 15:59	8° $\text{♁}$ 55'23	46°01'04		14086 Sep 13 17:16	0° $\text{♁}$	
	14084 Mar 27 08:28	0° $\text{♁}$		asc. node	14086 Sep 25 12:48	14° $\text{♁}$ 46'25	
asc. node	14084 Apr 09 13:57	7° $\text{♁}$ 22'28			14086 Oct 07 17:14	0° $\text{♁}$	
greatest brilliancy	14084 Apr 10 23:36	7° $\text{♁}$ 53'46	-4.8m				
retrograde	14084 Apr 20 22:21	9° $\text{♁}$ 43'13		superior conj	14086 Oct 08 13:25	1° $\text{♁}$ 03'01	0°31'05
evening set	14084 May 06 22:10	4° $\text{♁}$ 43'54		minimum elong	14086 Oct 08 06:18	0° $\text{♁}$ 40'46	0°31'12
inferior conj	14084 May 11 20:27	1° $\text{♁}$ 43'54	7°06'53	max. Earth dist.	14086 Oct 10 12:03	3° $\text{♁}$ 28'33	1.71942 AU
minimum elong	14084 May 11 09:52	2° $\text{♁}$ 00'28	7°03'56		14086 Oct 31 18:31	0° $\text{♁}$	
min. Earth dist.	14084 May 11 19:50	1° $\text{♁}$ 44'53	0.27897 AU	evening rise	14086 Nov 15 11:36	18° $\text{♁}$ 17'23	
	14084 May 14 15:26	30° $\text{♁}$			14086 Nov 24 22:16	0° $\text{♁}$	
morning rise	14084 May 15 21:28	29° $\text{♁}$ 14'50			14086 Dec 19 06:08	0° $\text{♁}$	

	14087 Jan 12 19:48	0° $\text{H}$			14089 Sep 03 22:04	0° $\text{M}$		
desc. node	14087 Jan 15 03:09	2° $\text{H}$ 47'57			14089 Sep 28 03:40	0° $\text{L}$		
	14087 Feb 06 16:23	0° $\text{Y}$			14089 Oct 22 08:01	0° $\text{M}$		
	14087 Mar 03 21:07	0° $\text{B}$		asc. node	14089 Oct 23 03:13	0° $\text{M}$ 59'35		
	14087 Mar 29 13:42	0° $\text{II}$		morning set	14089 Nov 10 14:12	23° $\text{M}$ 54'32		
	14087 Apr 25 06:28	0° $\text{S}$			14089 Nov 15 11:56	0° $\text{X}$		
asc. node	14087 May 07 23:31	13° $\text{S}$ 29'46			14089 Dec 09 16:03	0° $\text{Z}$		
evening max el	14087 May 14 21:48	20° $\text{S}$ 30'26	46°27'45					
	14087 May 24 20:50	0° $\text{L}$		superior conj	14089 Dec 18 01:12	10° $\text{Z}$ 23'21	1°26'17	
greatest brilliancy	14087 Jun 24 09:34	20° $\text{L}$ 47'19	-4.9m	minimum elong	14089 Dec 18 01:20	10° $\text{Z}$ 23'47	1°27'21	
retrograde	14087 Jul 03 20:11	22° $\text{L}$ 28'25		max. Earth dist.	14089 Dec 20 02:27	12° $\text{Z}$ 55'55	1.72835 AU	
evening set	14087 Jul 20 20:20	16° $\text{L}$ 55'59			14090 Jan 02 21:30	0° $\approx$		
inferior conj	14087 Jul 24 12:36	14° $\text{L}$ 42'40	7°39'38	evening rise	14090 Jan 24 06:46	26° $\approx$ 22'51		
minimum elong	14087 Jul 24 23:01	14° $\text{L}$ 26'39	7°36'57		14090 Jan 27 05:21	0° $\text{H}$		
min. Earth dist.	14087 Jul 25 03:38	14° $\text{L}$ 19'34	0.27177 AU	desc. node	14090 Feb 11 17:00	19° $\text{H}$ 01'09		
morning rise	14087 Jul 29 01:30	11° $\text{L}$ 58'46			14090 Feb 20 15:59	0° $\text{Y}$		
direct	14087 Aug 14 06:40	6° $\text{L}$ 50'39			14090 Mar 17 04:53	0° $\text{B}$		
greatest brilliancy	14087 Aug 24 12:13	8° $\text{L}$ 48'01	-4.9m		14090 Apr 10 19:45	0° $\text{II}$		
desc. node	14087 Aug 28 02:37	10° $\text{L}$ 18'27			14090 May 05 13:53	0° $\text{S}$		
	14087 Sep 23 23:00	0° $\text{M}$			14090 May 30 15:35	0° $\text{L}$		
morning max el	14087 Oct 03 13:08	9° $\text{M}$ 11'02	46°44'05	asc. node	14090 Jun 04 10:04	5° $\text{L}$ 37'55		
	14087 Oct 23 10:34	0° $\text{L}$			14090 Jun 25 10:23	0° $\text{M}$		
	14087 Nov 19 03:19	0° $\text{M}$			14090 Jul 22 22:42	0° $\text{L}$		
	14087 Dec 14 19:04	0° $\text{X}$		evening max el	14090 Jul 26 22:57	4° $\text{L}$ 04'22	46°44'43	
asc. node	14087 Dec 19 03:09	5° $\text{X}$ 08'43			14090 Aug 26 16:09	0° $\text{M}$		
	14088 Jan 08 21:23	0° $\text{Z}$		greatest brilliancy	14090 Sep 04 09:58	4° $\text{M}$ 23'57	-4.9m	
	14088 Feb 02 15:22	0° $\approx$		retrograde	14090 Sep 15 06:28	6° $\text{M}$ 35'17		
	14088 Feb 27 04:15	0° $\text{H}$		desc. node	14090 Sep 24 11:40	4° $\text{M}$ 51'25		
	14088 Mar 22 13:50	0° $\text{Y}$		evening set	14090 Sep 29 21:03	2° $\text{M}$ 22'29		
morning set	14088 Mar 31 20:24	11° $\text{Y}$ 26'10			14090 Oct 04 00:04	30° $\text{R}$ $\text{L}$		
desc. node	14088 Apr 08 20:21	21° $\text{Y}$ 19'06		min. Earth dist.	14090 Oct 05 12:24	29° $\text{L}$ 04'50	0.27294 AU	
	14088 Apr 15 20:44	0° $\text{B}$		inferior conj	14090 Oct 06 03:34	28° $\text{L}$ 41'40	-2°57'41	
max. Earth dist.	14088 May 06 19:09	25° $\text{B}$ 58'26	1.72281 AU	minimum elong	14090 Oct 05 20:58	28° $\text{L}$ 51'44	2°55'16	
				morning rise	14090 Oct 11 21:34	25° $\text{L}$ 19'26		
superior conj	14088 May 09 22:29	29° $\text{B}$ 52'43	-1°06'30	direct	14090 Oct 27 00:14	20° $\text{L}$ 55'28		
minimum elong	14088 May 09 11:23	29° $\text{B}$ 18'10	1°07'01	greatest brilliancy	14090 Nov 05 13:28	22° $\text{L}$ 36'30	-4.8m	
	14088 May 10 00:50	0° $\text{II}$			14090 Nov 19 17:59	0° $\text{M}$		
	14088 Jun 03 02:20	0° $\text{S}$		morning max el	14090 Dec 15 06:24	21° $\text{M}$ 30'55	46°00'25	
evening rise	14088 Jun 18 06:45	18° $\text{S}$ 58'44			14090 Dec 23 19:26	0° $\text{X}$		
	14088 Jun 27 02:17	0° $\text{L}$		asc. node	14091 Jan 15 13:59	24° $\text{X}$ 19'21		
	14088 Jul 21 02:23	0° $\text{M}$			14091 Jan 20 16:13	0° $\text{Z}$		
asc. node	14088 Jul 30 09:38	11° $\text{M}$ 35'59			14091 Feb 15 18:42	0° $\approx$		
	14088 Aug 14 04:34	0° $\text{L}$			14091 Mar 13 01:15	0° $\text{H}$		
	14088 Sep 07 11:04	0° $\text{M}$			14091 Apr 06 20:40	0° $\text{Y}$		
	14088 Oct 02 01:22	0° $\text{X}$			14091 May 01 08:49	0° $\text{B}$		
	14088 Oct 27 06:04	0° $\text{Z}$		desc. node	14091 May 07 10:22	7° $\text{B}$ 28'24		
desc. node	14088 Nov 19 05:01	26° $\text{Z}$ 14'48			14091 May 25 15:18	0° $\text{II}$		
	14088 Nov 22 14:29	0° $\approx$		morning set	14091 Jun 14 05:03	24° $\text{II}$ 22'06		
evening max el	14088 Dec 19 02:39	27° $\approx$ 35'52	46°00'13		14091 Jun 18 17:17	0° $\text{S}$		
	14088 Dec 21 14:58	0° $\text{H}$			14091 Jul 12 16:20	0° $\text{L}$		
greatest brilliancy	14089 Jan 27 06:10	26° $\text{H}$ 06'34	-4.8m	max. Earth dist.	14091 Jul 23 12:11	13° $\text{L}$ 34'42	1.71467 AU	
retrograde	14089 Feb 06 04:47	27° $\text{H}$ 54'51						
evening set	14089 Feb 21 18:24	23° $\text{H}$ 12'54		superior conj	14091 Jul 24 02:24	14° $\text{L}$ 19'19	-1°12'28	
inferior conj	14089 Feb 27 12:22	19° $\text{H}$ 44'41	-3°05'40	minimum elong	14091 Jul 24 13:25	14° $\text{L}$ 53'51	1°12'59	
minimum elong	14089 Feb 27 19:01	19° $\text{H}$ 34'18	3°03'26		14091 Aug 05 14:17	0° $\text{M}$		
min. Earth dist.	14089 Feb 27 21:20	19° $\text{H}$ 30'40	0.28506 AU	asc. node	14091 Aug 27 23:59	28° $\text{M}$ 04'52		
morning rise	14089 Mar 05 19:19	15° $\text{H}$ 57'59			14091 Aug 29 12:46	0° $\text{L}$		
asc. node	14089 Mar 12 06:50	13° $\text{H}$ 00'59		evening rise	14091 Sep 02 05:41	4° $\text{L}$ 38'16		
direct	14089 Mar 20 18:58	11° $\text{H}$ 32'41			14091 Sep 22 13:01	0° $\text{M}$		
greatest brilliancy	14089 Mar 31 16:06	13° $\text{H}$ 43'27	-4.8m		14091 Oct 16 16:31	0° $\text{X}$		
	14089 Apr 25 10:32	0° $\text{Y}$			14091 Nov 10 01:41	0° $\text{Z}$		
morning max el	14089 May 09 10:31	12° $\text{Y}$ 59'51	46°15'16		14091 Dec 04 20:07	0° $\approx$		
	14089 May 25 20:03	0° $\text{B}$		desc. node	14091 Dec 17 16:16	15° $\approx$ 17'40		
	14089 Jun 21 12:25	0° $\text{II}$			14091 Dec 30 04:44	0° $\text{H}$		
desc. node	14089 Jul 02 09:08	12° $\text{II}$ 43'53			14092 Jan 25 11:23	0° $\text{Y}$		
	14089 Jul 16 20:37	0° $\text{S}$			14092 Feb 22 13:00	0° $\text{B}$		
	14089 Aug 10 13:11	0° $\text{L}$		evening max el	14092 Feb 29 06:23	6° $\text{B}$ 39'51	46°00'26	

	14092 Mar 28 09:04	0° $\Pi$		asc. node	14094 Sep 24 14:41	14° $\Omega$ 19'10	
greatest brilliancy	14092 Apr 08 14:04	5° $\Pi$ 37'13	-4.8m				
asc. node	14092 Apr 08 15:58	5° $\Pi$ 38'53		superior conj	14094 Oct 06 03:19	28° $\Omega$ 43'31	0°27'40
retrograde	14092 Apr 18 12:00	7° $\Pi$ 26'01		minimum elong	14094 Oct 05 20:51	28° $\Omega$ 23'21	0°27'45
evening set	14092 May 04 09:04	2° $\Pi$ 31'51			14094 Oct 07 03:49	0° $\mathbb{M}$	
	14092 May 08 13:37	30° $\mathbb{R}$ 8		max. Earth dist.	14094 Oct 07 21:53	0° $\mathbb{M}$ 56'27	1.71913 AU
inferior conj	14092 May 09 10:58	29° $\mathbb{R}$ 26'34	6°52'21		14094 Oct 31 05:05	0° $\mathbb{X}$	
minimum elong	14092 May 09 00:14	29° $\mathbb{R}$ 43'22	6°49'17	evening rise	14094 Nov 13 03:09	16° $\mathbb{X}$ 03'50	
min. Earth dist.	14092 May 09 10:26	29° $\mathbb{R}$ 27'24	0.27913 AU		14094 Nov 24 08:53	0° $\mathbb{Z}$	
morning rise	14092 May 13 15:16	26° $\mathbb{R}$ 52'19			14094 Dec 18 16:54	0° $\approx$	
direct	14092 May 30 12:25	21° $\mathbb{R}$ 21'38			14095 Jan 12 06:51	0° $\mathbb{X}$	
greatest brilliancy	14092 Jun 09 13:21	23° $\mathbb{R}$ 14'59	-4.9m	desc. node	14095 Jan 14 05:02	2° $\mathbb{X}$ 19'59	
	14092 Jun 22 06:09	0° $\Pi$			14095 Feb 06 03:59	0° $\mathbb{Y}$	
morning max el	14092 Jul 19 20:38	23° $\Pi$ 56'11	46°53'36		14095 Mar 03 09:36	0° $\mathbb{X}$	
	14092 Jul 25 18:51	0° $\mathbb{G}$			14095 Mar 29 03:47	0° $\Pi$	
desc. node	14092 Jul 29 19:24	4° $\mathbb{G}$ 13'50			14095 Apr 24 23:54	0° $\mathbb{G}$	
	14092 Aug 22 01:16	0° $\Omega$		asc. node	14095 May 07 01:27	12° $\mathbb{G}$ 42'27	
	14092 Sep 16 16:58	0° $\mathbb{P}$		evening max el	14095 May 12 11:00	18° $\mathbb{G}$ 08'35	46°26'55
	14092 Oct 11 17:09	0° $\Omega$			14095 May 25 01:32	0° $\Omega$	
	14092 Nov 05 10:00	0° $\mathbb{M}$		greatest brilliancy	14095 Jun 21 22:32	18° $\Omega$ 24'10	-4.9m
asc. node	14092 Nov 19 16:42	17° $\mathbb{M}$ 26'57		retrograde	14095 Jul 01 09:41	20° $\Omega$ 05'44	
	14092 Nov 29 22:31	0° $\mathbb{X}$		evening set	14095 Jul 18 12:53	14° $\Omega$ 27'32	
	14092 Dec 24 08:06	0° $\mathbb{Z}$		inferior conj	14095 Jul 22 01:43	12° $\Omega$ 19'19	7°52'21
	14093 Jan 17 16:03	0° $\approx$		minimum elong	14095 Jul 22 11:44	12° $\Omega$ 03'56	7°49'50
morning set	14093 Jan 19 03:48	1° $\approx$ 50'16		min. Earth dist.	14095 Jul 22 16:37	11° $\Omega$ 56'27	0.27207 AU
	14093 Feb 10 23:36	0° $\mathbb{X}$		morning rise	14095 Jul 26 10:25	9° $\Omega$ 41'39	
				direct	14095 Aug 11 20:04	4° $\Omega$ 26'34	
superior conj	14093 Feb 25 04:49	17° $\mathbb{X}$ 32'23	0°33'19	greatest brilliancy	14095 Aug 22 01:15	6° $\Omega$ 24'04	-4.9m
minimum elong	14093 Feb 25 11:53	17° $\mathbb{X}$ 54'12	0°33'19	desc. node	14095 Aug 27 04:42	8° $\Omega$ 39'58	
max. Earth dist.	14093 Feb 24 23:31	17° $\mathbb{X}$ 16'02	1.73111 AU		14095 Sep 24 01:46	0° $\mathbb{P}$	
	14093 Mar 07 07:15	0° $\mathbb{Y}$		morning max el	14095 Oct 01 04:06	6° $\mathbb{P}$ 52'36	46°45'16
desc. node	14093 Mar 11 07:36	4° $\mathbb{Y}$ 57'10			14095 Oct 23 03:43	0° $\Omega$	
	14093 Mar 31 14:37	0° $\mathbb{X}$			14095 Nov 18 17:20	0° $\mathbb{M}$	
evening rise	14093 Apr 04 07:46	4° $\mathbb{X}$ 35'13			14095 Dec 14 07:35	0° $\mathbb{X}$	
	14093 Apr 24 21:04	0° $\Pi$		asc. node	14095 Dec 18 05:00	4° $\mathbb{X}$ 37'37	
	14093 May 19 02:42	0° $\mathbb{G}$			14096 Jan 08 09:01	0° $\mathbb{Z}$	
	14093 Jun 12 08:58	0° $\Omega$			14096 Feb 02 02:28	0° $\approx$	
asc. node	14093 Jul 01 22:08	24° $\Omega$ 03'34			14096 Feb 26 15:02	0° $\mathbb{X}$	
	14093 Jul 06 18:30	0° $\mathbb{P}$			14096 Mar 22 00:29	0° $\mathbb{Y}$	
	14093 Jul 31 11:16	0° $\Omega$		morning set	14096 Mar 29 11:26	9° $\mathbb{Y}$ 11'40	
	14093 Aug 25 18:24	0° $\mathbb{M}$		desc. node	14096 Apr 07 22:06	20° $\mathbb{Y}$ 51'41	
	14093 Sep 21 08:48	0° $\mathbb{X}$			14096 Apr 15 07:21	0° $\mathbb{X}$	
evening max el	14093 Oct 06 13:55	15° $\mathbb{X}$ 49'53	46°26'53	max. Earth dist.	14096 May 04 11:28	23° $\mathbb{X}$ 46'52	1.72319 AU
desc. node	14093 Oct 21 20:57	0° $\mathbb{Z}$ 01'25					
	14093 Oct 21 20:17	0° $\mathbb{Z}$		superior conj	14096 May 07 11:54	27° $\mathbb{X}$ 32'00	-1°04'04
greatest brilliancy	14093 Nov 14 23:31	15° $\mathbb{Z}$ 33'40	-4.8m	minimum elong	14096 May 07 00:44	26° $\mathbb{X}$ 57'18	1°04'30
retrograde	14093 Nov 25 11:23	17° $\mathbb{Z}$ 35'04			14096 May 09 11:29	0° $\Pi$	
evening set	14093 Dec 13 22:15	11° $\mathbb{Z}$ 13'23			14096 Jun 02 13:03	0° $\mathbb{G}$	
inferior conj	14093 Dec 16 22:34	9° $\mathbb{Z}$ 21'13	-8°52'38	evening rise	14096 Jun 15 19:03	16° $\mathbb{G}$ 33'32	
minimum elong	14093 Dec 16 22:33	9° $\mathbb{Z}$ 21'14	8°51'34		14096 Jun 26 13:06	0° $\Omega$	
min. Earth dist.	14093 Dec 16 13:44	9° $\mathbb{Z}$ 35'03	0.28692 AU		14096 Jul 20 13:20	0° $\mathbb{P}$	
morning rise	14093 Dec 19 22:58	7° $\mathbb{Z}$ 29'07		asc. node	14096 Jul 29 11:34	11° $\mathbb{P}$ 07'42	
direct	14094 Jan 07 05:13	1° $\mathbb{Z}$ 14'59			14096 Aug 13 15:44	0° $\Omega$	
greatest brilliancy	14094 Jan 17 06:32	3° $\mathbb{Z}$ 04'49	-4.8m		14096 Sep 06 22:36	0° $\mathbb{M}$	
asc. node	14094 Feb 11 23:46	19° $\mathbb{Z}$ 30'55			14096 Oct 01 13:32	0° $\mathbb{X}$	
	14094 Feb 23 13:18	0° $\approx$			14096 Oct 26 19:24	0° $\mathbb{Z}$	
morning max el	14094 Feb 25 03:57	1° $\approx$ 33'12	45°43'44	desc. node	14096 Nov 18 06:50	25° $\mathbb{Z}$ 37'10	
	14094 Mar 24 08:40	0° $\mathbb{X}$			14096 Nov 22 06:22	0° $\approx$	
	14094 Apr 19 16:57	0° $\mathbb{Y}$		evening max el	14096 Dec 16 18:50	25° $\approx$ 25'48	46°00'49
	14094 May 15 00:15	0° $\mathbb{X}$			14096 Dec 21 14:40	0° $\mathbb{X}$	
desc. node	14094 Jun 03 23:20	24° $\mathbb{X}$ 11'12		greatest brilliancy	14097 Jan 24 21:06	23° $\mathbb{X}$ 54'25	-4.8m
	14094 Jun 08 17:28	0° $\Pi$		retrograde	14097 Feb 03 20:38	25° $\mathbb{X}$ 42'59	
	14094 Jul 03 01:43	0° $\mathbb{G}$		evening set	14097 Feb 19 12:13	20° $\mathbb{X}$ 57'54	
	14094 Jul 27 04:27	0° $\Omega$		inferior conj	14097 Feb 25 04:01	17° $\mathbb{X}$ 32'24	-3°25'15
	14094 Aug 20 04:30	0° $\mathbb{P}$		minimum elong	14097 Feb 25 11:14	17° $\mathbb{X}$ 21'05	3°22'52
morning set	14094 Aug 27 19:11	9° $\mathbb{P}$ 31'33		min. Earth dist.	14097 Feb 25 12:44	17° $\mathbb{X}$ 18'45	0.28531 AU
	14094 Sep 13 03:54	0° $\Omega$		morning rise	14097 Mar 03 10:05	13° $\mathbb{X}$ 47'04	

asc. node	14097 Mar 11 08:49	10° $\text{♋}$ 22'00	evening rise	14099 Aug 30 18:08	2° $\text{♊}$ 12'39	
direct	14097 Mar 18 11:23	9° $\text{♋}$ 20'27		14099 Sep 22 00:04	0° $\text{♌}$	
greatest brilliancy	14097 Mar 29 07:22	11° $\text{♋}$ 30'27 -4.8m		14099 Oct 16 03:42	0° $\text{♍}$	
	14097 Apr 25 15:14	0° $\text{♍}$		14099 Nov 09 13:09	0° $\text{♎}$	
morning max el	14097 May 07 02:27	10° $\text{♍}$ 47'02 46°13'37		14099 Dec 04 08:09	0° $\text{♏}$	
	14097 May 25 13:17	0° $\text{♏}$	desc. node	14099 Dec 16 18:15	14° $\text{♏}$ 46'42	
	14097 Jun 21 02:30	0° $\text{♐}$		14099 Dec 29 17:49	0° $\text{♋}$	
desc. node	14097 Jul 01 11:03	12° $\text{♐}$ 10'03		14100 Jan 25 02:36	0° $\text{♍}$	
	14097 Jul 16 09:17	0° $\text{♑}$		14100 Feb 22 09:41	0° $\text{♏}$	
	14097 Aug 10 01:05	0° $\text{♒}$	evening max el	14100 Feb 26 20:19	4° $\text{♒}$ 22'12 45°59'46	
	14097 Sep 03 09:29	0° $\text{♓}$		14100 Mar 30 20:43	0° $\text{♐}$	
	14097 Sep 27 14:45	0° $\text{♊}$	greatest brilliancy	14100 Apr 07 04:38	3° $\text{♐}$ 19'41 -4.8m	
	14097 Oct 21 18:52	0° $\text{♌}$	asc. node	14100 Apr 08 17:54	3° $\text{♐}$ 50'07	
asc. node	14097 Oct 22 04:58	0° $\text{♌}$ 31'20	retrograde	14100 Apr 17 01:47	5° $\text{♐}$ 08'07	
morning set	14097 Nov 08 05:34	21° $\text{♌}$ 39'57	evening set	14100 May 02 20:11	0° $\text{♐}$ 18'29	
	14097 Nov 14 22:37	0° $\text{♍}$		14100 May 03 09:06	30° $\text{♒}$	
	14097 Dec 09 02:40	0° $\text{♎}$	inferior conj	14100 May 08 01:36	27° $\text{♒}$ 08'26 6°37'08	
			minimum elong	14100 May 07 14:49	27° $\text{♒}$ 25'19 6°33'58	
superior conj	14097 Dec 15 17:52	8° $\text{♎}$ 13'26 1°26'15	min. Earth dist.	14100 May 08 01:21	27° $\text{♒}$ 08'50 0.27929 AU	
minimum elong	14097 Dec 15 17:14	8° $\text{♎}$ 11'26 1°27'18	morning rise	14100 May 12 09:14	24° $\text{♒}$ 29'08	
max. Earth dist.	14097 Dec 17 21:40	10° $\text{♎}$ 53'54 1.72811 AU	direct	14100 May 29 02:33	19° $\text{♒}$ 03'04	
	14098 Jan 02 08:07	0° $\text{♏}$	greatest brilliancy	14100 Jun 08 05:20	20° $\text{♒}$ 57'35 -4.8m	
evening rise	14098 Jan 21 22:57	24° $\text{♏}$ 11'59		14100 Jun 24 03:40	0° $\text{♐}$	
	14098 Jan 26 16:04	0° $\text{♋}$	morning max el	14100 Jul 18 09:55	21° $\text{♐}$ 33'00 46°52'50	
desc. node	14098 Feb 10 18:54	18° $\text{♋}$ 33'51		14100 Jul 26 14:53	0° $\text{♑}$	
	14098 Feb 20 02:53	0° $\text{♍}$	desc. node	14100 Jul 29 21:29	3° $\text{♑}$ 28'30	
	14098 Mar 16 16:06	0° $\text{♏}$		14100 Aug 22 16:40	0° $\text{♒}$	
	14098 Apr 10 07:25	0° $\text{♐}$		14100 Sep 17 06:27	0° $\text{♓}$	
	14098 May 05 02:16	0° $\text{♑}$		14100 Oct 12 05:36	0° $\text{♊}$	
	14098 May 30 05:09	0° $\text{♒}$		14100 Nov 05 21:46	0° $\text{♌}$	
asc. node	14098 Jun 03 11:57	5° $\text{♒}$ 02'42	asc. node	14100 Nov 19 18:34	16° $\text{♌}$ 57'30	
	14098 Jun 25 02:14	0° $\text{♓}$		14100 Nov 30 09:49	0° $\text{♍}$	
	14098 Jul 22 20:19	0° $\text{♊}$		14100 Dec 24 19:05	0° $\text{♎}$	
evening max el	14098 Jul 24 13:46	1° $\text{♊}$ 44'29 46°44'41	morning set	14101 Jan 17 20:57	29° $\text{♎}$ 41'45	
	14098 Aug 28 11:14	0° $\text{♌}$		14101 Jan 18 02:52	0° $\text{♏}$	
greatest brilliancy	14098 Sep 02 01:04	2° $\text{♌}$ 03'03 -4.9m		14101 Feb 11 10:21	0° $\text{♋}$	
retrograde	14098 Sep 12 20:20	4° $\text{♌}$ 12'50				
desc. node	14098 Sep 23 13:37	1° $\text{♌}$ 53'36	superior conj	14101 Feb 23 21:06	15° $\text{♋}$ 21'31 0°36'24	
evening set	14098 Sep 27 09:51	0° $\text{♌}$ 02'07	minimum elong	14101 Feb 24 04:42	15° $\text{♋}$ 44'57 0°36'26	
	14098 Sep 27 11:26	30° $\text{♒}$	max. Earth dist.	14101 Feb 23 17:47	15° $\text{♋}$ 11'16 1.73124 AU	
min. Earth dist.	14098 Oct 03 02:49	26° $\text{♊}$ 41'56 0.27247 AU		14101 Mar 07 18:02	0° $\text{♍}$	
inferior conj	14098 Oct 03 16:58	26° $\text{♊}$ 20'18 -2°35'25	desc. node	14101 Mar 11 09:23	4° $\text{♍}$ 29'22	
minimum elong	14098 Oct 03 11:07	26° $\text{♊}$ 29'13 2°33'14		14101 Apr 01 01:30	0° $\text{♏}$	
morning rise	14098 Oct 09 13:05	22° $\text{♊}$ 55'04	evening rise	14101 Apr 02 23:13	2° $\text{♏}$ 21'04	
direct	14098 Oct 24 13:36	18° $\text{♊}$ 34'51		14101 Apr 25 08:07	0° $\text{♐}$	
greatest brilliancy	14098 Nov 03 02:42	20° $\text{♊}$ 15'41 -4.8m		14101 May 19 14:02	0° $\text{♑}$	
	14098 Nov 20 14:53	0° $\text{♌}$		14101 Jun 12 20:39	0° $\text{♒}$	
morning max el	14098 Dec 12 19:34	19° $\text{♌}$ 11'20 46°01'42	asc. node	14101 Jul 02 00:06	23° $\text{♒}$ 32'40	
	14098 Dec 23 15:02	0° $\text{♍}$		14101 Jul 07 06:42	0° $\text{♓}$	
asc. node	14099 Jan 14 16:03	23° $\text{♍}$ 42'18		14101 Aug 01 00:20	0° $\text{♊}$	
	14099 Jan 20 07:02	0° $\text{♎}$		14101 Aug 26 09:02	0° $\text{♌}$	
	14099 Feb 15 07:36	0° $\text{♏}$		14101 Sep 22 03:01	0° $\text{♋}$	
	14099 Mar 12 13:12	0° $\text{♋}$	evening max el	14101 Oct 05 03:47	13° $\text{♍}$ 29'47 46°27'55	
	14099 Apr 06 08:07	0° $\text{♍}$	desc. node	14101 Oct 21 22:51	28° $\text{♍}$ 58'23	
	14099 Apr 30 19:57	0° $\text{♏}$		14101 Oct 23 04:47	0° $\text{♎}$	
desc. node	14099 May 06 12:10	6° $\text{♏}$ 59'42	greatest brilliancy	14101 Nov 13 14:13	13° $\text{♎}$ 18'19 -4.8m	
	14099 May 25 02:16	0° $\text{♐}$	retrograde	14101 Nov 24 02:57	15° $\text{♎}$ 20'59	
morning set	14099 Jun 11 16:47	21° $\text{♐}$ 54'55	evening set	14101 Dec 12 12:36	9° $\text{♎}$ 00'46	
	14099 Jun 18 04:11	0° $\text{♑}$	min. Earth dist.	14101 Dec 15 04:10	7° $\text{♎}$ 22'34 0.28663 AU	
	14099 Jul 12 03:14	0° $\text{♒}$	inferior conj	14101 Dec 15 13:54	7° $\text{♎}$ 07'23 -8°52'27	
max. Earth dist.	14099 Jul 20 17:59	10° $\text{♒}$ 48'13 1.71475 AU	minimum elong	14101 Dec 15 13:02	7° $\text{♎}$ 08'43 8°51'23	
			morning rise	14101 Dec 18 13:33	5° $\text{♎}$ 16'36	
superior conj	14099 Jul 21 14:13	11° $\text{♒}$ 51'38 -1°14'34		14101 Dec 29 19:49	30° $\text{♒}$	
minimum elong	14099 Jul 22 00:49	12° $\text{♒}$ 24'52 1°15'09	direct	14102 Jan 05 19:42	29° $\text{♒}$ 01'32	
	14099 Aug 05 01:13	0° $\text{♓}$		14102 Jan 13 01:54	0° $\text{♎}$	
asc. node	14099 Aug 27 01:52	27° $\text{♓}$ 36'24				
	14099 Aug 28 23:45	0° $\text{♊}$				