

superior conj	11100 May 10 08:16	25°♄00'55	-1°24'04	evening set	11102 Sep 30 06:42	26°♎08'24	
minimum elong	11100 May 10 01:43	24°♄40'21	1°24'29	min. Earth dist.	11102 Oct 05 00:57	23°♎17'21	0.28251 AU
	11100 May 14 07:37	0°♈		inferior conj	11102 Oct 05 21:01	22°♎46'09	-5°53'19
	11100 Jun 07 04:53	0°♊		minimum elong	11102 Oct 05 10:45	23°♎02'06	5°50'47
evening rise	11100 Jun 19 15:50	15°♊38'09		morning rise	11102 Oct 10 15:15	19°♎53'06	
	11100 Jul 01 02:52	0°♈		direct	11102 Oct 27 00:28	14°♎46'11	
asc. node	11100 Jul 15 22:43	18°♈31'56		greatest brilliancy	11102 Nov 05 15:26	16°♎26'23	-4.8m
	11100 Jul 25 03:32	0°♈			11102 Nov 28 06:52	0°♎	
	11100 Aug 18 08:41	0°♈		morning max el	11102 Dec 14 18:26	14°♎36'04	45°42'28
	11100 Sep 11 20:36	0°♈			11102 Dec 30 01:12	0°♈	
	11100 Oct 06 19:27	0°♈		asc. node	11103 Jan 01 00:34	2°♈04'40	
	11100 Nov 01 12:41	0°♈			11103 Jan 26 08:12	0°♈	
desc. node	11100 Nov 04 18:53	3°♈42'31			11103 Feb 21 02:15	0°♈	
	11100 Nov 28 15:48	0°♈			11103 Mar 18 01:54	0°♈	
evening max el	11100 Dec 17 23:24	19°♈36'00	45°50'48		11103 Apr 11 14:43	0°♈	
	11100 Dec 29 08:51	0°♈		desc. node	11103 Apr 22 18:42	13°♈47'12	
greatest brilliancy	11101 Jan 26 02:13	17°♈55'16	-4.8m		11103 May 05 20:18	0°♈	
retrograde	11101 Feb 04 19:44	19°♈39'02			11103 May 29 21:01	0°♈	
evening set	11101 Feb 19 14:44	15°♈24'37		morning set	11103 Jun 15 14:55	20°♈59'28	
inferior conj	11101 Feb 25 21:23	11°♈40'27	0°00'53		11103 Jun 22 19:10	0°♈	
minimum elong	11101 Feb 25 21:21	11°♈40'32	0°01'08		11103 Jul 16 17:00	0°♈	
transit middle	11101 Feb 25 21:21	11°♈40'32	0°01'08				
transit begin	11101 Feb 25 17:18	11°♈46'50		superior conj	11103 Jul 25 11:32	10°♈59'35	-0°44'16
transit end	11101 Feb 26 01:23	11°♈34'13		minimum elong	11103 Jul 25 21:26	11°♈30'37	0°44'22
asc. node	11101 Feb 25 19:59	11°♈42'40		max. Earth dist.	11103 Jul 27 16:36	13°♈45'45	1.71628 AU
min. Earth dist.	11101 Feb 26 07:21	11°♈24'54	0.27915 AU		11103 Aug 09 16:13	0°♈	
morning rise	11101 Mar 04 03:20	7°♈55'49		asc. node	11103 Aug 13 11:36	4°♈45'23	
direct	11101 Mar 19 00:15	3°♈34'47		evening rise	11103 Sep 02 18:59	0°♈03'38	
greatest brilliancy	11101 Mar 29 17:30	5°♈42'40	-4.8m		11103 Sep 02 17:49	0°♈	
	11101 May 02 03:16	0°♈			11103 Sep 26 22:41	0°♈	
morning max el	11101 May 08 05:14	5°♈57'25	46°45'40		11103 Oct 21 08:12	0°♈	
	11101 May 30 19:19	0°♈			11103 Nov 15 00:35	0°♈	
desc. node	11101 Jun 17 18:15	20°♈29'28		desc. node	11103 Dec 03 06:02	21°♈51'28	
	11101 Jun 25 21:07	0°♈			11103 Dec 10 02:32	0°♈	
	11101 Jul 20 23:13	0°♈			11104 Jan 04 17:33	0°♈	
	11101 Aug 14 15:04	0°♈			11104 Jan 31 05:20	0°♈	
	11101 Sep 08 02:50	0°♈			11104 Feb 28 16:24	0°♈	
	11101 Oct 02 12:54	0°♈		evening max el	11104 Feb 28 18:35	0°♈05'21	46°20'57
asc. node	11101 Oct 08 12:36	7°♈21'56		asc. node	11104 Mar 25 06:04	22°♈08'54	
	11101 Oct 26 21:48	0°♈			11104 Apr 08 15:48	0°♈	
morning set	11101 Nov 09 00:03	16°♈08'34		greatest brilliancy	11104 Apr 08 22:14	0°♈05'43	-4.9m
	11101 Nov 20 05:41	0°♈		retrograde	11104 Apr 18 15:35	1°♈52'40	
	11101 Dec 14 13:08	0°♈			11104 Apr 28 05:30	30°♈	
				evening set	11104 May 05 23:49	26°♈05'19	
superior conj	11101 Dec 15 16:46	1°♈25'12	1°20'55	inferior conj	11104 May 09 08:23	24°♈02'50	8°46'36
minimum elong	11101 Dec 15 22:58	1°♈44'20	1°21'28	minimum elong	11104 May 09 01:43	24°♈13'06	8°45'27
max. Earth dist.	11101 Dec 15 22:03	1°♈41'31	1.73210 AU	min. Earth dist.	11104 May 09 09:04	24°♈01'47	0.27320 AU
	11102 Jan 07 20:57	0°♈		morning rise	11104 May 12 03:35	22°♈20'06	
evening rise	11102 Jan 22 01:05	17°♈27'43		direct	11104 May 30 02:41	16°♈08'53	
desc. node	11102 Jan 28 04:31	25°♈01'42		greatest brilliancy	11104 Jun 08 22:36	17°♈58'48	-4.9m
	11102 Feb 01 05:22	0°♈			11104 Jun 28 20:39	0°♈	
	11102 Feb 25 13:56	0°♈		desc. node	11104 Jul 15 05:38	14°♈37'40	
	11102 Mar 21 22:16	0°♈		morning max el	11104 Jul 19 15:13	18°♈58'30	46°55'11
	11102 Apr 15 07:26	0°♈			11104 Jul 30 06:44	0°♈	
	11102 May 09 20:37	0°♈			11104 Aug 26 07:11	0°♈	
asc. node	11102 May 21 00:52	13°♈30'54			11104 Sep 21 01:20	0°♈	
	11102 Jun 03 19:51	0°♈			11104 Oct 16 06:25	0°♈	
	11102 Jun 29 16:34	0°♈		asc. node	11104 Nov 05 01:57	23°♈51'18	
evening max el	11102 Jul 26 09:31	28°♈39'17	46°36'12		11104 Nov 10 03:49	0°♈	
	11102 Jul 27 17:55	0°♈			11104 Dec 04 19:33	0°♈	
greatest brilliancy	11102 Sep 03 12:44	28°♈40'57	-4.8m		11104 Dec 29 07:00	0°♈	
	11102 Sep 07 13:42	0°♈		morning set	11105 Jan 16 14:56	22°♈34'04	
desc. node	11102 Sep 10 00:26	0°♈31'53			11105 Jan 22 15:33	0°♈	
retrograde	11102 Sep 14 13:03	0°♈55'44			11105 Feb 15 22:03	0°♈	
	11102 Sep 21 07:55	30°♈		max. Earth dist.	11105 Feb 21 01:26	6°♈21'58	1.72641 AU

superior conj	11105 Feb 23 08:50	9° $\text{H}$ 13'37	0°03'21	min. Earth dist.	11107 Jul 23 02:20	8° $\Omega$ 25'43	0.27082 AU
minimum elong	11105 Feb 23 09:42	9° $\text{H}$ 16'17	0°03'35	morning rise	11107 Jul 28 19:39	5° $\Omega$ 03'45	
behind sun begin	11105 Feb 22 10:04	8° $\text{H}$ 03'03		direct	11107 Aug 12 17:15	0° $\Omega$ 44'37	
behind sun end	11105 Feb 24 09:19	10° $\text{H}$ 29'31		desc. node	11107 Aug 12 16:07	0° $\Omega$ 44'37	
desc. node	11105 Feb 24 17:37	10° $\text{H}$ 55'12		greatest brilliancy	11107 Aug 22 14:38	2° $\Omega$ 33'47	-4.8m
	11105 Mar 12 02:36	0° $\Upsilon$			11107 Sep 29 06:04	0° $\text{M}$	
evening rise	11105 Apr 03 06:37	27° $\Upsilon$ 35'18		morning max el	11107 Oct 01 08:27	2° $\text{M}$ 01'55	46°14'31
	11105 Apr 05 05:03	0° $\text{B}$			11107 Oct 28 04:27	0° $\Omega$	
	11105 Apr 29 05:56	0° $\Pi$			11107 Nov 23 20:01	0° $\text{M}$	
	11105 May 23 06:53	0° $\text{C}$		asc. node	11107 Dec 03 14:42	11° $\text{M}$ 20'33	
	11105 Jun 16 10:32	0° $\Omega$			11107 Dec 19 11:08	0° $\text{A}$	
asc. node	11105 Jun 17 12:24	1° $\Omega$ 19'58			11108 Jan 13 11:52	0° $\text{B}$	
	11105 Jul 10 20:11	0° $\text{M}$			11108 Feb 07 03:29	0° $\approx$	
	11105 Aug 04 16:36	0° $\Omega$			11108 Mar 02 13:07	0° $\text{H}$	
	11105 Aug 30 08:56	0° $\text{M}$		desc. node	11108 Mar 24 07:04	26° $\text{H}$ 55'51	
	11105 Sep 26 20:30	0° $\text{A}$			11108 Mar 26 18:20	0° $\Upsilon$	
evening max el	11105 Oct 05 10:09	8° $\text{A}$ 36'03	45°59'59	morning set	11108 Mar 28 16:25	2° $\Upsilon$ 23'16	
desc. node	11105 Oct 07 10:34	10° $\text{A}$ 33'03			11108 Apr 19 19:49	0° $\text{B}$	
	11105 Oct 30 16:11	0° $\text{B}$		max. Earth dist.	11108 May 05 06:38	19° $\text{B}$ 20'56	1.71503 AU
greatest brilliancy	11105 Nov 13 10:25	7° $\text{B}$ 15'47	-4.7m				
retrograde	11105 Nov 23 14:45	9° $\text{B}$ 08'14		superior conj	11108 May 07 19:59	22° $\text{B}$ 33'13	-1°22'53
evening set	11105 Dec 11 15:37	2° $\text{B}$ 59'58		minimum elong	11108 May 07 12:35	22° $\text{B}$ 10'03	1°23'15
inferior conj	11105 Dec 15 02:07	0° $\text{B}$ 51'52	-8°13'51		11108 May 13 18:26	0° $\Pi$	
minimum elong	11105 Dec 15 08:35	0° $\text{B}$ 41'43	8°12'35		11108 Jun 06 15:43	0° $\text{C}$	
min. Earth dist.	11105 Dec 15 07:51	0° $\text{B}$ 42'51	0.29034 AU	evening rise	11108 Jun 17 02:48	13° $\text{C}$ 07'54	
	11105 Dec 16 11:11	30° $\text{R}$ $\text{A}$			11108 Jun 30 13:45	0° $\Omega$	
morning rise	11105 Dec 19 01:32	28° $\text{A}$ 24'30		asc. node	11108 Jul 15 00:33	18° $\Omega$ 03'33	
direct	11106 Jan 05 13:53	22° $\text{A}$ 35'32			11108 Jul 24 14:32	0° $\text{M}$	
greatest brilliancy	11106 Jan 16 05:32	24° $\text{A}$ 40'17	-4.8m		11108 Aug 17 19:52	0° $\Omega$	
	11106 Jan 26 16:48	0° $\text{B}$			11108 Sep 11 08:10	0° $\text{M}$	
asc. node	11106 Jan 28 11:30	1° $\text{B}$ 09'01			11108 Oct 06 07:46	0° $\text{A}$	
morning max el	11106 Feb 23 23:42	23° $\text{B}$ 38'48	46°00'06		11108 Nov 01 02:31	0° $\text{B}$	
	11106 Mar 02 07:37	0° $\approx$		desc. node	11108 Nov 03 20:56	3° $\text{B}$ 08'24	
	11106 Mar 29 21:37	0° $\text{H}$			11108 Nov 28 09:07	0° $\approx$	
	11106 Apr 24 15:26	0° $\Upsilon$		evening max el	11108 Dec 15 13:04	17° $\approx$ 19'31	45°50'15
	11106 May 19 12:52	0° $\text{B}$			11108 Dec 29 15:01	0° $\text{H}$	
desc. node	11106 May 20 07:51	0° $\text{B}$ 57'53		greatest brilliancy	11109 Jan 23 17:08	15° $\text{H}$ 40'08	-4.8m
	11106 Jun 12 23:07	0° $\Pi$		retrograde	11109 Feb 02 09:41	17° $\text{H}$ 23'31	
	11106 Jul 07 03:25	0° $\text{C}$		evening set	11109 Feb 17 06:16	13° $\text{H}$ 07'12	
	11106 Jul 31 05:25	0° $\Omega$		inferior conj	11109 Feb 23 12:09	9° $\text{H}$ 24'23	-0°21'10
	11106 Aug 24 07:29	0° $\text{M}$		minimum elong	11109 Feb 23 12:57	9° $\text{H}$ 23'09	0°20'39
morning set	11106 Aug 28 07:03	4° $\text{M}$ 57'16		min. Earth dist.	11109 Feb 23 23:08	9° $\text{H}$ 07'15	0.27956 AU
asc. node	11106 Sep 10 00:56	20° $\text{M}$ 48'09		asc. node	11109 Feb 24 21:53	8° $\text{H}$ 31'51	
	11106 Sep 17 10:35	0° $\Omega$		morning rise	11109 Mar 01 18:55	5° $\text{H}$ 38'30	
				direct	11109 Mar 16 14:51	1° $\text{H}$ 17'54	
superior conj	11106 Oct 05 14:55	22° $\Omega$ 33'29	0°56'55	greatest brilliancy	11109 Mar 27 10:18	3° $\text{H}$ 27'38	-4.8m
minimum elong	11106 Oct 05 05:02	22° $\Omega$ 02'52	0°56'43		11109 May 02 03:23	0° $\Upsilon$	
max. Earth dist.	11106 Oct 07 18:29	25° $\Omega$ 13'19	1.72701 AU	morning max el	11109 May 05 19:15	3° $\Upsilon$ 37'03	46°44'27
	11106 Oct 11 15:00	0° $\text{M}$			11109 May 30 11:45	0° $\text{B}$	
	11106 Nov 04 21:07	0° $\text{A}$		desc. node	11109 Jun 16 20:12	19° $\text{B}$ 53'00	
evening rise	11106 Nov 11 13:28	8° $\text{A}$ 14'36			11109 Jun 25 10:57	0° $\Pi$	
	11106 Nov 29 05:50	0° $\text{B}$			11109 Jul 20 11:46	0° $\text{C}$	
	11106 Dec 23 18:10	0° $\approx$			11109 Aug 14 02:51	0° $\Omega$	
desc. node	11106 Dec 30 17:49	8° $\approx$ 30'37			11109 Sep 07 14:05	0° $\text{M}$	
	11107 Jan 17 10:33	0° $\text{H}$			11109 Oct 01 23:47	0° $\Omega$	
	11107 Feb 11 07:09	0° $\Upsilon$		asc. node	11109 Oct 07 14:34	6° $\Omega$ 54'48	
	11107 Mar 08 09:26	0° $\text{B}$			11109 Oct 26 08:25	0° $\text{M}$	
	11107 Apr 02 23:18	0° $\Pi$		morning set	11109 Nov 06 16:55	14° $\text{M}$ 00'02	
asc. node	11107 Apr 22 16:15	22° $\Pi$ 17'54			11109 Nov 19 16:09	0° $\text{A}$	
	11107 Apr 29 17:54	0° $\text{C}$					
evening max el	11107 May 12 22:34	13° $\text{C}$ 45'12	46°51'05	superior conj	11109 Dec 13 10:10	29° $\text{A}$ 18'35	1°21'59
	11107 May 30 10:28	0° $\Omega$		minimum elong	11109 Dec 13 15:47	29° $\text{A}$ 35'56	1°22'33
greatest brilliancy	11107 Jun 22 04:43	14° $\Omega$ 25'50	-4.9m	max. Earth dist.	11109 Dec 13 16:17	29° $\text{A}$ 37'28	1.73216 AU
retrograde	11107 Jul 02 06:04	16° $\Omega$ 19'18			11109 Dec 13 23:36	0° $\text{B}$	
evening set	11107 Jul 17 23:09	11° $\Omega$ 29'51			11110 Jan 07 07:30	0° $\approx$	
inferior conj	11107 Jul 22 23:10	8° $\Omega$ 30'35	5°04'37	evening rise	11110 Jan 19 17:13	15° $\approx$ 16'56	
minimum elong	11107 Jul 23 09:17	8° $\Omega$ 15'03	5°01'19	desc. node	11110 Jan 27 06:20	24° $\approx$ 34'27	

	11110 Jan 31 16:04	0° $\text{H}$			11112 Oct 15 18:15	0° $\text{L}$		
	11110 Feb 25 00:51	0° $\text{Y}$		asc. node	11112 Nov 04 03:52	23° $\text{L}$ 22'51		
	11110 Mar 21 09:31	0° $\text{B}$			11112 Nov 09 15:00	0° $\text{M}$		
	11110 Apr 14 19:08	0° $\text{II}$			11112 Dec 04 06:19	0° $\text{X}$		
	11110 May 09 09:03	0° $\text{G}$			11112 Dec 28 17:32	0° $\text{Z}$		
asc. node	11110 May 20 02:53	12° $\text{G}$ 58'21		morning set	11113 Jan 14 08:04	20° $\text{Z}$ 26'48		
	11110 Jun 03 09:29	0° $\text{Q}$			11113 Jan 22 01:58	0° $\approx$		
	11110 Jun 29 08:36	0° $\text{P}$			11113 Feb 15 08:28	0° $\text{H}$		
evening max el	11110 Jul 23 23:58	26° $\text{P}$ 20'39	46°37'33	max. Earth dist.	11113 Feb 18 18:20	4° $\text{H}$ 13'23	1.72678 AU	
	11110 Jul 27 16:46	0° $\text{L}$						
greatest brilliancy	11110 Sep 01 03:49	26° $\text{L}$ 25'30	-4.8m	superior conj	11113 Feb 20 23:52	6° $\text{H}$ 59'07	0°06'51	
desc. node	11110 Sep 09 02:29	28° $\text{L}$ 29'59		minimum elong	11113 Feb 21 01:32	7° $\text{H}$ 04'18	0°07'05	
retrograde	11110 Sep 12 04:45	28° $\text{L}$ 41'18		behind sun begin	11113 Feb 20 03:44	5° $\text{H}$ 56'47		
evening set	11110 Sep 27 19:12	23° $\text{L}$ 57'39		behind sun end	11113 Feb 21 23:20	8° $\text{H}$ 11'49		
min. Earth dist.	11110 Oct 02 15:57	21° $\text{L}$ 03'30	0.28196 AU	desc. node	11113 Feb 23 19:31	10° $\text{H}$ 28'43		
inferior conj	11110 Oct 03 12:05	20° $\text{L}$ 32'17	-5°37'20		11113 Mar 11 13:06	0° $\text{Y}$		
minimum elong	11110 Oct 03 01:57	20° $\text{L}$ 48'00	5°34'45	evening rise	11113 Mar 31 20:17	25° $\text{Y}$ 15'09		
morning rise	11110 Oct 08 09:10	17° $\text{L}$ 35'35			11113 Apr 04 15:42	0° $\text{B}$		
direct	11110 Oct 24 14:50	12° $\text{L}$ 32'55			11113 Apr 28 16:47	0° $\text{II}$		
greatest brilliancy	11110 Nov 03 06:05	14° $\text{L}$ 13'39	-4.8m		11113 May 22 17:58	0° $\text{G}$		
	11110 Nov 28 14:43	0° $\text{M}$			11113 Jun 15 21:55	0° $\text{Q}$		
morning max el	11110 Dec 12 09:44	12° $\text{M}$ 24'37	45°42'48	asc. node	11113 Jun 16 14:14	0° $\text{Q}$ 50'23		
	11110 Dec 29 18:33	0° $\text{X}$			11113 Jul 10 08:05	0° $\text{P}$		
asc. node	11110 Dec 31 02:29	1° $\text{X}$ 24'39			11113 Aug 04 05:24	0° $\text{L}$		
	11111 Jan 25 22:00	0° $\text{Z}$			11113 Aug 29 23:32	0° $\text{M}$		
	11111 Feb 20 14:35	0° $\approx$			11113 Sep 26 15:44	0° $\text{X}$		
	11111 Mar 17 13:30	0° $\text{H}$		evening max el	11113 Oct 03 01:58	6° $\text{X}$ 24'50	46°00'59	
	11111 Apr 11 01:55	0° $\text{Y}$		desc. node	11113 Oct 06 12:38	9° $\text{X}$ 43'40		
desc. node	11111 Apr 21 20:43	13° $\text{Y}$ 19'10			11113 Oct 31 16:29	0° $\text{Z}$		
	11111 May 05 07:15	0° $\text{B}$		greatest brilliancy	11113 Nov 11 01:51	5° $\text{Z}$ 06'11	-4.7m	
	11111 May 29 07:49	0° $\text{II}$		retrograde	11113 Nov 21 06:34	6° $\text{Z}$ 58'51		
morning set	11111 Jun 13 02:09	18° $\text{II}$ 30'26		evening set	11113 Dec 09 09:36	0° $\text{Z}$ 48'00		
	11111 Jun 22 05:53	0° $\text{G}$			11113 Dec 10 16:47	30° $\text{R}$ $\text{X}$		
	11111 Jul 16 03:40	0° $\text{Q}$		inferior conj	11113 Dec 12 18:17	28° $\text{X}$ 42'24	-8°20'12	
				minimum elong	11113 Dec 13 00:06	28° $\text{X}$ 33'13	8°19'03	
superior conj	11111 Jul 22 23:44	8° $\text{Q}$ 34'09	-0°47'33	min. Earth dist.	11113 Dec 12 22:51	28° $\text{X}$ 35'12	0.29041 AU	
minimum elong	11111 Jul 23 10:09	9° $\text{Q}$ 06'47	0°47'38	morning rise	11113 Dec 16 14:39	26° $\text{X}$ 19'23		
max. Earth dist.	11111 Jul 25 03:15	11° $\text{Q}$ 15'31	1.71600 AU	direct	11114 Jan 03 06:19	20° $\text{X}$ 26'28		
	11111 Aug 09 02:50	0° $\text{P}$		greatest brilliancy	11114 Jan 13 20:08	22° $\text{X}$ 29'17	-4.8m	
asc. node	11111 Aug 12 13:28	4° $\text{P}$ 18'00		asc. node	11114 Jan 27 13:23	29° $\text{X}$ 56'29		
evening rise	11111 Aug 31 09:32	27° $\text{P}$ 46'38			11114 Jan 27 15:25	0° $\text{Z}$		
	11111 Sep 02 04:26	0° $\text{L}$		morning max el	11114 Feb 21 14:31	21° $\text{Z}$ 24'53	45°58'44	
	11111 Sep 26 09:22	0° $\text{M}$			11114 Mar 02 02:36	0° $\approx$		
	11111 Oct 20 19:05	0° $\text{X}$			11114 Mar 29 12:05	0° $\text{H}$		
	11111 Nov 14 11:50	0° $\text{Z}$			11114 Apr 24 04:11	0° $\text{Y}$		
desc. node	11111 Dec 02 08:00	21° $\text{Z}$ 22'30		desc. node	11114 May 19 09:44	0° $\text{B}$ 27'17		
	11111 Dec 09 14:29	0° $\approx$			11114 May 19 00:47	0° $\text{B}$		
	11112 Jan 04 06:48	0° $\text{H}$			11114 Jun 12 10:34	0° $\text{II}$		
	11112 Jan 30 21:13	0° $\text{Y}$			11114 Jul 06 14:32	0° $\text{G}$		
evening max el	11112 Feb 26 09:25	27° $\text{Y}$ 48'17	46°19'29		11114 Jul 30 16:18	0° $\text{Q}$		
	11112 Feb 28 15:28	0° $\text{B}$			11114 Aug 23 18:09	0° $\text{P}$		
asc. node	11112 Mar 24 08:10	20° $\text{B}$ 49'43		morning set	11114 Aug 25 21:17	2° $\text{P}$ 39'04		
greatest brilliancy	11112 Apr 06 10:08	27° $\text{B}$ 41'22	-4.8m	asc. node	11114 Sep 09 02:54	20° $\text{P}$ 21'22		
retrograde	11112 Apr 16 05:09	29° $\text{B}$ 29'12			11114 Sep 16 21:08	0° $\text{L}$		
evening set	11112 May 03 08:39	23° $\text{B}$ 48'04						
inferior conj	11112 May 06 21:29	21° $\text{B}$ 39'05	8°38'41	superior conj	11114 Oct 03 06:40	20° $\text{L}$ 21'02	0°54'17	
minimum elong	11112 May 06 14:05	21° $\text{B}$ 50'29	8°37'24	minimum elong	11114 Oct 02 20:55	19° $\text{L}$ 50'46	0°54'04	
min. Earth dist.	11112 May 06 21:22	21° $\text{B}$ 39'15	0.27332 AU	max. Earth dist.	11114 Oct 05 12:24	23° $\text{L}$ 07'36	1.72665 AU	
morning rise	11112 May 09 19:31	19° $\text{B}$ 52'05			11114 Oct 11 01:29	0° $\text{M}$		
direct	11112 May 27 16:37	13° $\text{B}$ 45'04			11114 Nov 04 07:37	0° $\text{X}$		
greatest brilliancy	11112 Jun 06 11:21	15° $\text{B}$ 34'15	-4.9m	evening rise	11114 Nov 09 06:15	6° $\text{X}$ 05'56		
	11112 Jun 29 08:26	0° $\text{II}$			11114 Nov 28 16:26	0° $\text{Z}$		
desc. node	11112 Jul 14 07:31	13° $\text{II}$ 43'37			11114 Dec 23 05:00	0° $\approx$		
morning max el	11112 Jul 17 05:30	16° $\text{II}$ 37'36	46°55'49	desc. node	11114 Dec 29 19:40	8° $\approx$ 03'01		
	11112 Jul 30 01:38	0° $\text{G}$			11115 Jan 16 21:46	0° $\text{H}$		
	11112 Aug 25 21:58	0° $\text{Q}$			11115 Feb 10 19:00	0° $\text{Y}$		
	11112 Sep 20 14:14	0° $\text{P}$			11115 Mar 07 22:16	0° $\text{B}$		

	11115 Apr 02 13:57	0°♐			11117 Sep 07 01:25	0°♍		
asc. node	11115 Apr 21 18:12	21°♐35'55			11117 Oct 01 10:47	0°♌		
	11115 Apr 29 12:39	0°♌		asc. node	11117 Oct 06 16:30	6°♌27'00		
evening max el	11115 May 10 11:13	11°♌20'04	46°50'24		11117 Oct 25 19:11	0°♌		
	11115 May 30 22:07	0°♏		morning set	11117 Nov 04 09:21	11°♌49'39		
greatest brilliancy	11115 Jun 19 19:42	12°♏03'31	-4.9m		11117 Nov 19 02:46	0°♏		
retrograde	11115 Jun 29 18:31	13°♏55'06						
evening set	11115 Jul 15 15:24	9°♏01'31		superior conj	11117 Dec 11 03:13	27°♏10'30	1°22'56	
inferior conj	11115 Jul 20 12:07	6°♏06'58	5°24'37	minimum elong	11117 Dec 11 08:13	27°♏25'54	1°23'31	
minimum elong	11115 Jul 20 22:37	5°♏50'51	5°21'17	max. Earth dist.	11117 Dec 11 11:58	27°♏37'29	1.73215 AU	
min. Earth dist.	11115 Jul 20 16:28	6°♏00'18	0.27077 AU		11117 Dec 13 10:10	0°♏		
morning rise	11115 Jul 26 05:59	2°♏43'19			11118 Jan 06 18:09	0°♏		
	11115 Aug 01 03:55	30°♏		evening rise	11118 Jan 17 09:14	13°♏05'34		
direct	11115 Aug 10 05:36	28°♏20'50		desc. node	11118 Jan 26 08:16	24°♏07'18		
desc. node	11115 Aug 11 18:10	28°♏23'34			11118 Jan 31 02:53	0°♏		
	11115 Aug 19 15:46	0°♏			11118 Feb 24 11:53	0°♏		
greatest brilliancy	11115 Aug 20 04:13	0°♏10'46	-4.8m		11118 Mar 20 20:52	0°♏		
morning max el	11115 Sep 28 21:06	29°♏39'33	46°16'13		11118 Apr 14 06:58	0°♏		
	11115 Sep 29 05:28	0°♏			11118 May 08 21:36	0°♏		
	11115 Oct 27 20:30	0°♏		asc. node	11118 May 19 04:47	12°♏25'08		
	11115 Nov 23 09:23	0°♏			11118 Jun 02 23:16	0°♏		
asc. node	11115 Dec 02 16:33	10°♏48'41			11118 Jun 29 00:58	0°♏		
	11115 Dec 18 23:11	0°♏		evening max el	11118 Jul 21 15:04	24°♏03'22	46°38'38	
	11116 Jan 12 23:12	0°♏			11118 Jul 27 16:48	0°♏		
	11116 Feb 06 14:26	0°♏		greatest brilliancy	11118 Aug 29 18:19	24°♏08'20	-4.8m	
	11116 Mar 01 23:52	0°♏		desc. node	11118 Sep 08 04:32	26°♏21'58		
desc. node	11116 Mar 23 09:06	26°♏29'03		retrograde	11118 Sep 09 20:33	26°♏25'17		
morning set	11116 Mar 26 05:35	0°♏01'53		evening set	11118 Sep 25 07:35	21°♏45'11		
	11116 Mar 26 04:59	0°♏		min. Earth dist.	11118 Sep 30 06:29	18°♏48'14	0.28144 AU	
	11116 Apr 19 06:27	0°♏		inferior conj	11118 Oct 01 02:52	18°♏16'42	-5°20'29	
max. Earth dist.	11116 May 02 15:24	16°♏44'40	1.71536 AU	minimum elong	11118 Sep 30 16:56	18°♏32'05	5°17'54	
				morning rise	11118 Oct 06 02:49	15°♏16'25		
superior conj	11116 May 05 08:08	20°♏07'33	-1°21'33	direct	11118 Oct 22 05:30	10°♏18'00		
minimum elong	11116 May 04 23:57	19°♏41'55	1°21'52	greatest brilliancy	11118 Oct 31 20:08	11°♏58'43	-4.8m	
	11116 May 13 05:04	0°♏			11118 Nov 28 20:47	0°♏		
	11116 Jun 06 02:26	0°♏		morning max el	11118 Dec 10 01:15	10°♏12'35	45°43'10	
evening rise	11116 Jun 14 14:00	10°♏38'41			11118 Dec 29 11:54	0°♏		
	11116 Jun 30 00:36	0°♏		asc. node	11118 Dec 30 04:28	0°♏44'14		
asc. node	11116 Jul 14 02:27	17°♏35'24			11119 Jan 25 11:57	0°♏		
	11116 Jul 24 01:32	0°♏			11119 Feb 20 03:04	0°♏		
	11116 Aug 17 07:06	0°♏			11119 Mar 17 01:16	0°♏		
	11116 Sep 10 19:49	0°♏			11119 Apr 10 13:16	0°♏		
	11116 Oct 05 20:11	0°♏		desc. node	11119 Apr 20 22:29	12°♏49'48		
	11116 Oct 31 16:31	0°♏			11119 May 04 18:22	0°♏		
desc. node	11116 Nov 02 22:53	2°♏33'47			11119 May 28 18:48	0°♏		
	11116 Nov 28 02:49	0°♏		morning set	11119 Jun 10 13:42	16°♏01'53		
evening max el	11116 Dec 13 03:02	15°♏04'07	45°49'58		11119 Jun 21 16:46	0°♏		
	11116 Dec 29 23:32	0°♏			11119 Jul 15 14:29	0°♏		
greatest brilliancy	11117 Jan 21 07:42	13°♏25'14	-4.8m					
retrograde	11117 Jan 31 00:24	15°♏08'54		superior conj	11119 Jul 20 12:14	6°♏09'07	-0°50'42	
evening set	11117 Feb 14 22:09	10°♏50'18		minimum elong	11119 Jul 20 23:04	6°♏43'03	0°50'48	
inferior conj	11117 Feb 21 03:04	7°♏09'00	-0°43'11	max. Earth dist.	11119 Jul 22 16:28	8°♏52'46	1.71570 AU	
minimum elong	11117 Feb 21 04:41	7°♏06'28	0°42'21		11119 Aug 08 13:36	0°♏		
min. Earth dist.	11117 Feb 21 14:45	6°♏50'48	0.27996 AU	asc. node	11119 Aug 11 15:26	3°♏50'32		
asc. node	11117 Feb 24 00:01	5°♏22'24		evening rise	11119 Aug 29 00:15	25°♏29'33		
morning rise	11117 Feb 27 10:31	3°♏22'23			11119 Sep 01 15:14	0°♏		
	11117 Mar 07 08:29	30°♏			11119 Sep 25 20:18	0°♏		
direct	11117 Mar 14 05:53	29°♏01'45			11119 Oct 20 06:16	0°♏		
	11117 Mar 21 09:01	0°♏			11119 Nov 13 23:28	0°♏		
greatest brilliancy	11117 Mar 25 02:49	1°♏13'02	-4.8m	desc. node	11119 Dec 01 09:49	20°♏51'55		
	11117 May 02 02:13	0°♏			11119 Dec 09 02:52	0°♏		
morning max el	11117 May 03 10:23	1°♏20'04	46°43'19		11120 Jan 03 20:34	0°♏		
	11117 May 30 03:44	0°♏			11120 Jan 30 13:48	0°♏		
desc. node	11117 Jun 15 22:07	19°♏17'03		evening max el	11120 Feb 24 00:11	25°♏30'10	46°18'08	
	11117 Jun 25 00:32	0°♏			11120 Feb 28 16:02	0°♏		
	11117 Jul 20 00:11	0°♏		asc. node	11120 Mar 23 10:08	19°♏26'47		
	11117 Aug 13 14:37	0°♏		greatest brilliancy	11120 Apr 03 22:42	25°♏17'09	-4.8m	

retrograde	11120 Apr 13 18:21	27°♄05'01			11122 Sep 16 08:02	0°♎	
evening set	11120 Apr 30 17:32	21°♄30'31					
inferior conj	11120 May 04 10:41	19°♄14'50	8°29'51	superior conj	11122 Sep 30 22:34	18°♎07'58	0°51'34
minimum elong	11120 May 04 02:37	19°♄27'18	8°28'25	minimum elong	11122 Sep 30 13:00	17°♎38'16	0°51'20
min. Earth dist.	11120 May 04 10:03	19°♄15'49	0.27340 AU	max. Earth dist.	11122 Oct 03 04:30	20°♎55'10	1.72627 AU
morning rise	11120 May 07 11:43	17°♄23'10			11122 Oct 10 12:18	0°♎	
direct	11120 May 25 06:28	11°♄20'48			11122 Nov 03 18:25	0°♈	
greatest brilliancy	11120 Jun 04 00:26	13°♄09'16	-4.9m	evening rise	11122 Nov 06 23:12	3°♈56'51	
	11120 Jun 29 17:29	0°♈			11122 Nov 28 03:22	0°♈	
desc. node	11120 Jul 13 09:30	12°♈50'04			11122 Dec 22 16:12	0°♏	
morning max el	11120 Jul 14 18:58	14°♈13'45	46°56'28	desc. node	11122 Dec 28 21:41	7°♏34'48	
	11120 Jul 29 20:18	0°♏			11123 Jan 16 09:26	0°♏	
	11120 Aug 25 12:48	0°♏			11123 Feb 10 07:21	0°♏	
	11120 Sep 20 03:18	0°♏			11123 Mar 07 11:42	0°♏	
	11120 Oct 15 06:19	0°♎			11123 Apr 02 05:17	0°♈	
asc. node	11120 Nov 03 05:41	22°♎53'15		asc. node	11123 Apr 20 20:08	20°♈51'59	
	11120 Nov 09 02:29	0°♎			11123 Apr 29 08:26	0°♏	
	11120 Dec 03 17:27	0°♈		evening max el	11123 May 07 23:05	8°♏51'48	46°49'56
	11120 Dec 28 04:27	0°♈			11123 May 31 14:24	0°♏	
morning set	11121 Jan 12 00:52	18°♈17'17		greatest brilliancy	11123 Jun 17 10:22	9°♏39'46	-4.9m
	11121 Jan 21 12:47	0°♏		retrograde	11123 Jun 27 07:13	11°♏30'07	
	11121 Feb 14 19:17	0°♏		evening set	11123 Jul 13 07:40	6°♏31'49	
max. Earth dist.	11121 Feb 16 09:24	1°♏57'57	1.72711 AU	inferior conj	11123 Jul 18 01:04	3°♏42'15	5°43'56
				minimum elong	11123 Jul 18 11:52	3°♏25'41	5°40'36
superior conj	11121 Feb 18 14:39	4°♏42'45	0°10'23	min. Earth dist.	11123 Jul 18 06:28	3°♏33'57	0.27074 AU
minimum elong	11121 Feb 18 17:08	4°♏50'26	0°10'35	morning rise	11123 Jul 23 16:06	0°♏22'23	
behind sun begin	11121 Feb 17 22:54	3°♏54'00			11123 Jul 24 08:38	30°♏♏	
behind sun end	11121 Feb 19 11:22	5°♏46'53		direct	11123 Aug 07 17:47	25°♏55'46	
desc. node	11121 Feb 22 21:28	10°♏01'08		desc. node	11123 Aug 10 20:14	26°♏07'00	
	11121 Mar 10 24:00	0°♏		greatest brilliancy	11123 Aug 17 17:52	27°♏46'51	-4.8m
evening rise	11121 Mar 29 09:46	22°♏53'23			11123 Aug 22 21:54	0°♏	
	11121 Apr 04 02:44	0°♏		morning max el	11123 Sep 26 10:29	27°♏17'58	46°17'59
	11121 Apr 28 03:59	0°♈			11123 Sep 29 04:13	0°♏	
	11121 May 22 05:24	0°♏			11123 Oct 27 12:35	0°♎	
	11121 Jun 15 09:42	0°♏			11123 Nov 22 22:55	0°♎	
asc. node	11121 Jun 15 16:10	0°♏20'00		asc. node	11123 Dec 01 18:31	10°♎16'25	
	11121 Jul 09 20:23	0°♏			11123 Dec 18 11:26	0°♈	
	11121 Aug 03 18:38	0°♎			11124 Jan 12 10:46	0°♈	
	11121 Aug 29 14:38	0°♎			11124 Feb 06 01:38	0°♏	
	11121 Sep 26 11:55	0°♈			11124 Mar 01 10:55	0°♏	
evening max el	11121 Sep 30 16:47	4°♈10'08	46°01'56	desc. node	11124 Mar 22 10:53	26°♏00'27	
desc. node	11121 Oct 05 14:33	8°♈52'06		morning set	11124 Mar 23 18:32	27°♏38'45	
	11121 Nov 02 03:39	0°♈			11124 Mar 25 15:59	0°♏	
greatest brilliancy	11121 Nov 08 17:34	2°♈55'49	-4.7m		11124 Apr 18 17:26	0°♏	
retrograde	11121 Nov 18 21:59	4°♈48'28		max. Earth dist.	11124 Apr 30 01:33	14°♈11'38	1.71568 AU
	11121 Dec 04 17:47	30°♏♈					
evening set	11121 Dec 07 03:16	28°♏35'18		superior conj	11124 May 02 19:50	17°♏39'18	-1°20'02
inferior conj	11121 Dec 10 10:26	26°♏31'53	-8°25'41	minimum elong	11124 May 02 10:56	17°♏11'26	1°20'18
minimum elong	11121 Dec 10 15:36	26°♏23'45	8°24'39		11124 May 12 16:04	0°♈	
min. Earth dist.	11121 Dec 10 14:09	26°♏26'03	0.29051 AU		11124 Jun 05 13:28	0°♏	
morning rise	11121 Dec 14 03:56	24°♏12'57		evening rise	11124 Jun 12 00:50	8°♏07'31	
direct	11121 Dec 31 22:21	18°♏16'09			11124 Jun 29 11:42	0°♏	
greatest brilliancy	11122 Jan 11 11:23	20°♏17'42	-4.7m	asc. node	11124 Jul 13 04:26	17°♏06'48	
asc. node	11122 Jan 26 15:30	28°♏45'00			11124 Jul 23 12:47	0°♏	
	11122 Jan 28 08:44	0°♈			11124 Aug 16 18:36	0°♎	
morning max el	11122 Feb 19 04:44	19°♈07'55	45°57'23		11124 Sep 10 07:45	0°♎	
	11122 Mar 01 21:38	0°♏			11124 Oct 05 08:55	0°♈	
	11122 Mar 29 02:54	0°♏			11124 Oct 31 06:53	0°♈	
	11122 Apr 23 17:18	0°♏		desc. node	11124 Nov 02 00:48	1°♈58'12	
desc. node	11122 May 18 11:38	29°♏55'42			11124 Nov 27 21:10	0°♏	
	11122 May 18 13:03	0°♏		evening max el	11124 Dec 10 17:45	12°♏50'14	45°49'46
	11122 Jun 11 22:18	0°♈			11124 Dec 30 11:20	0°♏	
	11122 Jul 06 01:57	0°♏		greatest brilliancy	11125 Jan 18 21:44	11°♏09'32	-4.8m
	11122 Jul 30 03:29	0°♏		retrograde	11125 Jan 28 15:29	12°♏53'50	
morning set	11122 Aug 23 11:30	0°♏19'40		evening set	11125 Feb 12 14:13	8°♏32'50	
	11122 Aug 23 05:11	0°♏		inferior conj	11125 Feb 18 17:56	4°♏53'03	-1°04'58
asc. node	11122 Sep 08 04:47	19°♏53'12		minimum elong	11125 Feb 18 20:23	4°♏49'15	1°03'52

min. Earth dist.	11125 Feb 19 05:58	4° $\text{H}$ 34'20	0.28040 AU	asc. node	11127 Aug 10 17:17	3° $\text{M}$ 22'40	
asc. node	11125 Feb 23 01:55	2° $\text{H}$ 14'13		evening rise	11127 Aug 26 14:20	23° $\text{M}$ 10'33	
morning rise	11125 Feb 25 01:55	1° $\text{H}$ 06'01			11127 Sep 01 02:00	0° $\text{A}$	
	11125 Feb 27 04:41	30° $\text{R}$ $\approx$			11127 Sep 25 07:09	0° $\text{M}$	
direct	11125 Mar 11 21:23	26° $\approx$ 45'08			11127 Oct 19 17:21	0° $\text{J}$	
greatest brilliancy	11125 Mar 22 18:43	28° $\approx$ 57'12	-4.8m		11127 Nov 13 10:59	0° $\text{Z}$	
	11125 Mar 25 06:25	0° $\text{H}$		desc. node	11127 Nov 30 11:52	20° $\text{Z}$ 22'24	
morning max el	11125 May 01 02:16	29° $\text{H}$ 04'15	46°41'54		11127 Dec 08 15:09	0° $\approx$	
	11125 May 02 00:30	0° $\text{Y}$			11128 Jan 03 10:16	0° $\text{H}$	
	11125 May 29 19:47	0° $\text{B}$			11128 Jan 30 06:27	0° $\text{Y}$	
desc. node	11125 Jun 15 00:06	18° $\text{B}$ 40'36		evening max el	11128 Feb 21 14:32	23° $\text{Y}$ 11'54	46°16'46
	11125 Jun 24 14:18	0° $\text{II}$			11128 Feb 28 17:30	0° $\text{B}$	
	11125 Jul 19 12:49	0° $\text{G}$		asc. node	11128 Mar 22 12:03	18° $\text{B}$ 02'02	
	11125 Aug 13 02:32	0° $\text{O}$		greatest brilliancy	11128 Apr 01 11:59	22° $\text{B}$ 55'03	-4.8m
	11125 Sep 06 12:51	0° $\text{M}$		retrograde	11128 Apr 11 07:14	24° $\text{B}$ 42'23	
	11125 Sep 30 21:52	0° $\text{A}$		evening set	11128 Apr 28 02:32	19° $\text{B}$ 14'42	
asc. node	11125 Oct 05 18:16	5° $\text{A}$ 58'28		inferior conj	11128 May 02 00:07	16° $\text{B}$ 52'16	8°20'07
	11125 Oct 25 06:01	0° $\text{M}$		minimum elong	11128 May 01 15:25	17° $\text{B}$ 05'44	8°18'31
morning set	11125 Nov 02 01:49	9° $\text{M}$ 39'08		min. Earth dist.	11128 May 01 23:18	16° $\text{B}$ 53'33	0.27350 AU
	11125 Nov 18 13:28	0° $\text{J}$		morning rise	11128 May 05 04:17	14° $\text{B}$ 55'38	
				direct	11128 May 22 19:58	8° $\text{B}$ 58'07	
superior conj	11125 Dec 08 20:27	25° $\text{J}$ 02'37	1°23'45	greatest brilliancy	11128 Jun 01 14:17	10° $\text{B}$ 46'25	-4.9m
minimum elong	11125 Dec 09 00:48	25° $\text{J}$ 16'01	1°24'21		11128 Jun 29 23:37	0° $\text{II}$	
max. Earth dist.	11125 Dec 09 08:42	25° $\text{J}$ 40'26	1.73212 AU	desc. node	11128 Jul 12 11:33	11° $\text{II}$ 58'21	
	11125 Dec 12 20:51	0° $\text{Z}$		morning max el	11128 Jul 12 07:43	11° $\text{II}$ 48'42	46°56'53
	11126 Jan 06 04:52	0° $\approx$			11128 Jul 29 14:17	0° $\text{G}$	
evening rise	11126 Jan 15 01:30	10° $\approx$ 54'45			11128 Aug 25 03:17	0° $\text{O}$	
desc. node	11126 Jan 25 10:12	23° $\approx$ 40'00			11128 Sep 19 16:07	0° $\text{M}$	
	11126 Jan 30 13:44	0° $\text{H}$			11128 Oct 14 18:10	0° $\text{A}$	
	11126 Feb 23 22:59	0° $\text{Y}$		asc. node	11128 Nov 02 07:41	22° $\text{A}$ 24'53	
	11126 Mar 20 08:20	0° $\text{B}$			11128 Nov 08 13:43	0° $\text{M}$	
	11126 Apr 13 18:57	0° $\text{II}$			11128 Dec 03 04:17	0° $\text{J}$	
	11126 May 08 10:23	0° $\text{G}$			11128 Dec 27 15:03	0° $\text{Z}$	
asc. node	11126 May 18 06:44	11° $\text{G}$ 51'24		morning set	11129 Jan 09 17:44	16° $\text{Z}$ 08'50	
	11126 Jun 02 13:23	0° $\text{O}$			11129 Jan 20 23:18	0° $\approx$	
	11126 Jun 28 17:51	0° $\text{M}$		max. Earth dist.	11129 Feb 14 00:28	29° $\approx$ 43'29	1.72746 AU
evening max el	11126 Jul 19 06:50	21° $\text{M}$ 47'14	46°39'53		11129 Feb 14 05:48	0° $\text{H}$	
	11126 Jul 27 18:16	0° $\text{A}$					
greatest brilliancy	11126 Aug 27 09:10	21° $\text{A}$ 51'15	-4.8m	superior conj	11129 Feb 16 05:45	2° $\text{H}$ 28'22	0°13'51
desc. node	11126 Sep 07 06:24	24° $\text{A}$ 08'39		minimum elong	11129 Feb 16 09:01	2° $\text{H}$ 38'28	0°14'03
retrograde	11126 Sep 07 12:24	24° $\text{A}$ 08'43		behind sun begin	11129 Feb 15 21:23	2° $\text{H}$ 02'27	
evening set	11126 Sep 22 20:11	19° $\text{A}$ 32'19		behind sun end	11129 Feb 16 20:39	3° $\text{H}$ 14'29	
min. Earth dist.	11126 Sep 27 20:53	16° $\text{A}$ 32'47	0.28086 AU	desc. node	11129 Feb 21 23:16	9° $\text{H}$ 34'05	
inferior conj	11126 Sep 28 17:35	16° $\text{A}$ 00'47	-5°03'09		11129 Mar 10 10:35	0° $\text{Y}$	
minimum elong	11126 Sep 28 07:54	16° $\text{A}$ 15'45	5°00'35	evening rise	11129 Mar 26 23:40	20° $\text{Y}$ 34'03	
morning rise	11126 Oct 03 20:18	12° $\text{A}$ 56'57			11129 Apr 03 13:27	0° $\text{B}$	
direct	11126 Oct 19 20:21	8° $\text{A}$ 03'04			11129 Apr 27 14:51	0° $\text{II}$	
greatest brilliancy	11126 Oct 29 09:32	9° $\text{A}$ 42'59	-4.8m		11129 May 21 16:29	0° $\text{G}$	
	11126 Nov 29 00:46	0° $\text{M}$		asc. node	11129 Jun 14 18:12	29° $\text{G}$ 50'58	
morning max el	11126 Dec 07 16:33	8° $\text{M}$ 00'13	45°43'32		11129 Jun 14 21:07	0° $\text{O}$	
asc. node	11126 Dec 29 06:28	0° $\text{J}$ 04'30			11129 Jul 09 08:23	0° $\text{M}$	
	11126 Dec 29 04:47	0° $\text{J}$			11129 Aug 03 07:39	0° $\text{A}$	
	11127 Jan 25 01:40	0° $\text{Z}$			11129 Aug 29 05:41	0° $\text{M}$	
	11127 Feb 19 15:24	0° $\approx$			11129 Sep 26 08:28	0° $\text{J}$	
	11127 Mar 16 12:52	0° $\text{H}$		evening max el	11129 Sep 28 07:04	1° $\text{J}$ 54'45	46°03'01
	11127 Apr 10 00:29	0° $\text{Y}$		desc. node	11129 Oct 04 16:32	8° $\text{J}$ 00'26	
desc. node	11127 Apr 20 00:24	12° $\text{Y}$ 21'15			11129 Nov 04 09:13	0° $\text{Z}$	
	11127 May 04 05:23	0° $\text{B}$		greatest brilliancy	11129 Nov 06 09:19	0° $\text{Z}$ 46'13	-4.8m
	11127 May 28 05:43	0° $\text{II}$		retrograde	11129 Nov 16 13:34	2° $\text{Z}$ 39'12	
morning set	11127 Jun 08 01:02	13° $\text{II}$ 32'46			11129 Nov 28 04:21	30° $\text{R}$ $\text{J}$	
	11127 Jun 21 03:38	0° $\text{G}$		evening set	11129 Dec 04 20:42	26° $\text{J}$ 23'58	
	11127 Jul 15 01:17	0° $\text{O}$		inferior conj	11129 Dec 08 02:39	24° $\text{J}$ 22'30	-8°30'25
				minimum elong	11129 Dec 08 07:05	24° $\text{J}$ 15'30	8°29'30
superior conj	11127 Jul 18 00:17	3° $\text{O}$ 42'33	-0°53'47	min. Earth dist.	11129 Dec 08 05:35	24° $\text{J}$ 17'53	0.29056 AU
minimum elong	11127 Jul 18 11:27	4° $\text{O}$ 17'33	0°53'55	morning rise	11129 Dec 11 17:28	22° $\text{J}$ 07'31	
max. Earth dist.	11127 Jul 20 04:29	6° $\text{O}$ 26'09	1.71541 AU	direct	11129 Dec 29 13:57	16° $\text{J}$ 06'53	
	11127 Aug 08 00:22	0° $\text{M}$		greatest brilliancy	11130 Jan 09 03:02	18° $\text{J}$ 07'53	-4.7m

asc. node	11130 Jan 25 17:25	27°♊36'22			11132 Jul 22 23:39	0°♎	
	11130 Jan 28 20:59	0°♊			11132 Aug 16 05:41	0°♎	
morning max el	11130 Feb 16 19:08	16°♊52'49	45°56'09		11132 Sep 09 19:15	0°♎	
	11130 Mar 01 15:39	0°♊			11132 Oct 04 21:17	0°♊	
	11130 Mar 28 17:04	0°♊			11132 Oct 30 21:01	0°♊	
	11130 Apr 23 05:54	0°♊		desc. node	11132 Nov 01 02:51	1°♊23'51	
desc. node	11130 May 17 13:36	29°♊25'43			11132 Nov 27 15:37	0°♊	
	11130 May 18 00:49	0°♊		evening max el	11132 Dec 08 09:34	10°♊40'04	45°49'31
	11130 Jun 11 09:35	0°♊			11132 Dec 31 02:38	0°♊	
	11130 Jul 05 12:54	0°♊		greatest brilliancy	11133 Jan 16 11:57	8°♊55'20	-4.8m
	11130 Jul 29 14:12	0°♊		retrograde	11133 Jan 26 06:37	10°♊39'56	
morning set	11130 Aug 21 01:45	28°♊01'39		evening set	11133 Feb 10 06:36	6°♊16'41	
	11130 Aug 22 15:45	0°♎		inferior conj	11133 Feb 16 08:56	2°♊38'27	-1°26'29
asc. node	11130 Sep 07 06:36	19°♎26'13		minimum elong	11133 Feb 16 12:10	2°♊33'25	1°25'08
	11130 Sep 15 18:30	0°♎		min. Earth dist.	11133 Feb 16 21:09	2°♊19'26	0.28082 AU
					11133 Feb 20 16:41	30°♎	
superior conj	11130 Sep 28 14:19	15°♎55'37	0°48'46	asc. node	11133 Feb 22 03:52	29°♎09'35	
minimum elong	11130 Sep 28 04:59	15°♎26'41	0°48'29	morning rise	11133 Feb 22 17:12	28°♎51'10	
max. Earth dist.	11130 Sep 30 18:28	18°♎37'20	1.72594 AU	direct	11133 Mar 09 13:20	24°♎30'09	
	11130 Oct 09 22:43	0°♎		greatest brilliancy	11133 Mar 20 10:11	26°♎42'10	-4.8m
	11130 Nov 03 04:51	0°♊			11133 Mar 27 07:08	0°♊	
evening rise	11130 Nov 04 15:59	1°♊48'21		morning max el	11133 Apr 28 18:06	26°♊49'39	46°40'23
	11130 Nov 27 13:55	0°♊			11133 May 01 21:27	0°♊	
	11130 Dec 22 03:01	0°♊			11133 May 29 11:10	0°♊	
desc. node	11130 Dec 27 23:34	7°♊07'25		desc. node	11133 Jun 14 02:03	18°♊05'24	
	11131 Jan 15 20:42	0°♊			11133 Jun 24 03:36	0°♊	
	11131 Feb 09 19:18	0°♊			11133 Jul 19 01:02	0°♊	
	11131 Mar 07 00:46	0°♊			11133 Aug 12 14:07	0°♊	
	11131 Apr 01 20:22	0°♊			11133 Sep 05 23:57	0°♎	
asc. node	11131 Apr 19 22:12	20°♊09'11			11133 Sep 30 08:37	0°♎	
	11131 Apr 29 04:19	0°♊		asc. node	11133 Oct 04 20:16	5°♎31'40	
evening max el	11131 May 05 11:39	6°♊26'51	46°49'30		11133 Oct 24 16:31	0°♎	
	11131 Jun 01 11:22	0°♊		morning set	11133 Oct 30 18:32	7°♎30'21	
greatest brilliancy	11131 Jun 15 00:38	7°♊17'12	-4.9m		11133 Nov 17 23:52	0°♊	
retrograde	11131 Jun 24 20:33	9°♊07'03					
evening set	11131 Jul 11 00:07	4°♊03'43		superior conj	11133 Dec 06 13:51	22°♊56'08	1°24'27
inferior conj	11131 Jul 15 14:07	1°♊19'17	6°02'29	minimum elong	11133 Dec 06 17:32	23°♊07'29	1°25'04
minimum elong	11131 Jul 16 01:08	1°♊02'25	5°59'12	max. Earth dist.	11133 Dec 07 05:56	23°♊45'45	1.73209 AU
min. Earth dist.	11131 Jul 15 20:16	1°♊09'53	0.27072 AU		11133 Dec 12 07:14	0°♊	
	11131 Jul 17 18:08	30°♎			11134 Jan 05 15:21	0°♊	
morning rise	11131 Jul 21 02:08	28°♎03'45		evening rise	11134 Jan 12 17:47	8°♎44'44	
direct	11131 Aug 05 06:21	23°♎32'27		desc. node	11134 Jan 24 12:01	23°♎13'02	
desc. node	11131 Aug 09 22:04	23°♎57'36			11134 Jan 30 00:23	0°♊	
greatest brilliancy	11131 Aug 15 07:12	25°♎24'27	-4.8m		11134 Feb 23 09:53	0°♊	
	11131 Aug 24 18:14	0°♊			11134 Mar 19 19:35	0°♊	
morning max el	11131 Sep 24 00:52	25°♊00'22	46°19'40		11134 Apr 13 06:45	0°♊	
	11131 Sep 29 01:27	0°♎			11134 May 07 22:59	0°♊	
	11131 Oct 27 03:53	0°♎		asc. node	11134 May 17 08:45	11°♎18'25	
	11131 Nov 22 11:53	0°♎			11134 Jun 02 03:24	0°♊	
asc. node	11131 Nov 30 20:29	9°♎45'30			11134 Jun 28 10:50	0°♎	
	11131 Dec 17 23:14	0°♊		evening max el	11134 Jul 16 22:42	19°♎31'45	46°40'54
	11132 Jan 11 21:55	0°♊			11134 Jul 27 20:57	0°♎	
	11132 Feb 05 12:26	0°♊		greatest brilliancy	11134 Aug 25 00:45	19°♎35'21	-4.8m
	11132 Feb 29 21:32	0°♊		retrograde	11134 Sep 05 03:53	21°♎52'14	
morning set	11132 Mar 21 07:46	25°♊18'00		desc. node	11134 Sep 06 08:29	21°♎50'31	
desc. node	11132 Mar 21 12:45	25°♊33'27		evening set	11134 Sep 20 08:57	17°♎19'38	
	11132 Mar 25 02:32	0°♊		min. Earth dist.	11134 Sep 25 11:39	14°♎17'08	0.28025 AU
	11132 Apr 18 03:58	0°♊		inferior conj	11134 Sep 26 08:15	13°♎45'14	-4°45'15
max. Earth dist.	11132 Apr 27 13:59	11°♊47'07	1.71602 AU	minimum elong	11134 Sep 25 22:55	13°♎59'41	4°42'42
				morning rise	11134 Oct 01 13:38	10°♎37'44	
superior conj	11132 Apr 30 07:42	15°♊12'56	-1°18'23	direct	11134 Oct 17 11:05	5°♎48'37	
minimum elong	11132 Apr 29 22:11	14°♊43'07	1°18'35	greatest brilliancy	11134 Oct 26 22:59	7°♎27'34	-4.8m
	11132 May 12 02:39	0°♊			11134 Nov 29 02:52	0°♎	
	11132 Jun 05 00:07	0°♊		morning max el	11134 Dec 05 06:58	5°♎46'19	45°43'58
evening rise	11132 Jun 09 11:55	5°♎38'16		asc. node	11134 Dec 28 08:23	29°♎25'33	
	11132 Jun 28 22:27	0°♊			11134 Dec 28 21:08	0°♊	
asc. node	11132 Jul 12 06:16	16°♊38'52			11135 Jan 24 15:07	0°♊	

	11135 Feb 19 03:34	0°≈		desc. node	11137 Oct 03 18:37	7°♄06'55	
	11135 Mar 16 00:23	0°✠		greatest brilliancy	11137 Nov 04 00:29	28°♄34'46	-4.8m
	11135 Apr 09 11:38	0°♿			11137 Nov 09 04:38	0°♄	
desc. node	11135 Apr 19 02:25	11°♿53'12		retrograde	11137 Nov 14 05:24	0°♄28'51	
	11135 May 03 16:20	0°♄			11137 Nov 19 03:28	30°♄♂♂	
	11135 May 27 16:33	0°♄		evening set	11137 Dec 02 13:44	24°♄11'42	
morning set	11135 Jun 05 12:15	11°♄03'33		inferior conj	11137 Dec 05 18:44	22°♄11'51	-8°34'30
	11135 Jun 20 14:24	0°♄		minimum elong	11137 Dec 05 22:26	22°♄06'02	8°33'39
	11135 Jul 14 12:00	0°♄		min. Earth dist.	11137 Dec 05 20:48	22°♄08'36	0.29060 AU
				morning rise	11137 Dec 09 07:07	20°♄00'39	
superior conj	11135 Jul 15 12:16	1°♄16'02	-0°56'47	direct	11137 Dec 27 05:19	13°♄56'13	
minimum elong	11135 Jul 15 23:41	1°♄51'50	0°56'57	greatest brilliancy	11138 Jan 06 18:40	15°♄57'05	-4.7m
max. Earth dist.	11135 Jul 17 15:27	3°♄56'27	1.71513 AU	asc. node	11138 Jan 24 19:21	26°♄28'34	
	11135 Aug 07 11:05	0°♄			11138 Jan 29 06:25	0°♄	
asc. node	11135 Aug 09 19:08	2°♄54'59		morning max el	11138 Feb 14 10:20	14°♄38'52	45°55'07
evening rise	11135 Aug 24 04:16	20°♄50'59			11138 Mar 01 09:34	0°≈	
	11135 Aug 31 12:46	0°♄			11138 Mar 28 07:22	0°✠	
	11135 Sep 24 18:02	0°♄			11138 Apr 22 18:43	0°♿	
	11135 Oct 19 04:27	0°♄			11138 May 16 15:29	28°♿54'30	
	11135 Nov 12 22:31	0°♄		desc. node	11138 May 17 12:54	0°♄	
desc. node	11135 Nov 29 13:49	19°♄52'31			11138 Jun 10 21:13	0°♄	
	11135 Dec 08 03:29	0°≈			11138 Jul 05 00:14	0°♄	
	11136 Jan 03 00:07	0°✠			11138 Jul 29 01:20	0°♄	
	11136 Jan 29 23:31	0°♿		morning set	11138 Aug 18 15:36	25°♄41'01	
evening max el	11136 Feb 19 03:56	20°♿51'01	46°15'14		11138 Aug 22 02:44	0°♄	
	11136 Feb 28 20:39	0°♄		asc. node	11138 Sep 06 08:34	18°♄58'32	
asc. node	11136 Mar 21 14:09	16°♄33'52			11138 Sep 15 05:22	0°♄	
greatest brilliancy	11136 Mar 30 01:33	20°♄32'31	-4.8m				
retrograde	11136 Apr 08 19:45	22°♄19'05		superior conj	11138 Sep 26 05:44	13°♄40'58	0°45'51
evening set	11136 Apr 25 11:23	16°♄58'02		minimum elong	11138 Sep 25 20:41	13°♄12'54	0°45'33
inferior conj	11136 Apr 29 13:27	14°♄29'03	8°09'28	max. Earth dist.	11138 Sep 28 09:01	16°♄20'05	1.72561 AU
minimum elong	11136 Apr 29 04:11	14°♄43'25	8°07'41		11138 Oct 09 09:31	0°♄	
min. Earth dist.	11136 Apr 29 12:52	14°♄29'58	0.27361 AU	evening rise	11138 Nov 02 08:44	29°♄38'31	
morning rise	11136 May 02 20:55	12°♄27'17			11138 Nov 02 15:42	0°♄	
direct	11136 May 20 08:53	6°♄34'28			11138 Nov 27 00:55	0°♄	
greatest brilliancy	11136 May 30 04:47	8°♄23'36	-4.9m		11138 Dec 21 14:17	0°≈	
	11136 Jun 30 03:59	0°♄		desc. node	11138 Dec 27 01:27	6°≈38'38	
morning max el	11136 Jul 09 20:04	9°♄22'11	46°57'23		11139 Jan 15 08:25	0°✠	
desc. node	11136 Jul 11 13:27	11°♄06'49			11139 Feb 09 07:42	0°♿	
	11136 Jul 29 07:58	0°♄			11139 Mar 06 14:17	0°♄	
	11136 Aug 24 17:42	0°♄			11139 Apr 01 12:03	0°♄	
	11136 Sep 19 04:58	0°♄		asc. node	11139 Apr 19 00:09	19°♄24'22	
	11136 Oct 14 06:06	0°♄			11139 Apr 29 01:19	0°♄	
asc. node	11136 Nov 01 09:35	21°♄55'49		evening max el	11139 May 03 01:04	4°♄02'59	46°48'53
	11136 Nov 08 01:04	0°♄			11139 Jun 02 17:22	0°♄	
	11136 Dec 02 15:15	0°♄		greatest brilliancy	11139 Jun 12 14:04	4°♄52'02	-4.9m
	11136 Dec 27 01:48	0°♄		retrograde	11139 Jun 22 10:05	6°♄41'58	
morning set	11137 Jan 07 10:47	14°♄00'31		evening set	11139 Jul 08 16:30	1°♄33'21	
	11137 Jan 20 09:57	0°≈			11139 Jul 11 07:44	30°♄♂♂	
max. Earth dist.	11137 Feb 11 17:35	27°≈34'54	1.72782 AU	inferior conj	11139 Jul 13 02:59	28°♄54'06	6°20'33
				minimum elong	11139 Jul 13 14:08	28°♄37'02	6°17'19
superior conj	11137 Feb 13 21:05	0°✠14'15	0°17'17	min. Earth dist.	11139 Jul 13 09:30	28°♄44'08	0.27075 AU
minimum elong	11137 Feb 14 01:06	0°✠26'41	0°17'28	morning rise	11139 Jul 18 11:47	25°♄43'20	
	11137 Feb 13 16:29	0°✠		direct	11139 Aug 02 19:22	21°♄06'59	
desc. node	11137 Feb 21 01:12	9°✠06'57		desc. node	11139 Aug 09 00:10	21°♄51'22	
	11137 Mar 09 21:23	0°♿		greatest brilliancy	11139 Aug 12 19:54	22°♄59'17	-4.8m
evening rise	11137 Mar 24 13:43	18°♿14'37			11139 Aug 26 01:32	0°♄	
	11137 Apr 03 00:23	0°♄		morning max el	11139 Sep 21 15:53	22°♄42'36	46°21'20
	11137 Apr 27 01:59	0°♄			11139 Sep 28 22:35	0°♄	
	11137 May 21 03:52	0°♄			11139 Oct 26 19:29	0°♄	
asc. node	11137 Jun 13 20:00	29°♄20'20			11139 Nov 22 01:14	0°♄	
	11137 Jun 14 08:52	0°♄		asc. node	11139 Nov 29 22:20	9°♄13'03	
	11137 Jul 08 20:44	0°♄			11139 Dec 17 11:25	0°♄	
	11137 Aug 02 21:02	0°♄			11140 Jan 11 09:29	0°♄	
	11137 Aug 28 21:15	0°♄			11140 Feb 04 23:40	0°≈	
evening max el	11137 Sep 25 21:08	29°♄37'53	46°04'09		11140 Feb 29 08:36	0°✠	
	11137 Sep 26 06:11	0°♄		morning set	11140 Mar 18 21:24	22°✠57'17	



desc. node	11140 Mar 20 14:46	25° $\text{X}$ 05'41		evening set	11142 Sep 17 21:58	15° $\text{Q}$ 06'07	
	11140 Mar 24 13:30	0° $\text{Y}$		min. Earth dist.	11142 Sep 23 02:56	12° $\text{Q}$ 00'21	0.27970 AU
	11140 Apr 17 14:54	0° $\text{B}$		inferior conj	11142 Sep 23 23:02	11° $\text{Q}$ 29'12	-4°26'46
max. Earth dist.	11140 Apr 25 02:24	9° $\text{B}$ 21'26	1.71632 AU	minimum elong	11142 Sep 23 14:06	11° $\text{Q}$ 43'03	4°24'18
				morning rise	11142 Sep 29 06:58	8° $\text{Q}$ 17'57	
superior conj	11140 Apr 27 19:53	12° $\text{B}$ 46'29	-1°16'35	direct	11142 Oct 15 01:33	3° $\text{Q}$ 33'32	
minimum elong	11140 Apr 27 09:50	12° $\text{B}$ 15'00	1°16'44	greatest brilliancy	11142 Oct 24 13:15	5° $\text{Q}$ 12'04	-4.8m
	11140 May 11 13:35	0° $\text{II}$			11142 Nov 29 03:58	0° $\text{III}$	
	11140 Jun 04 11:08	0° $\text{C}$		morning max el	11142 Dec 02 20:45	3° $\text{III}$ 29'47	45°44'24
evening rise	11140 Jun 06 23:13	3° $\text{C}$ 08'31		asc. node	11142 Dec 27 10:21	28° $\text{III}$ 46'10	
	11140 Jun 28 09:36	0° $\text{Q}$			11142 Dec 28 13:31	0° $\text{X}$	
asc. node	11140 Jul 11 08:10	16° $\text{Q}$ 09'53			11143 Jan 24 04:44	0° $\text{Z}$	
	11140 Jul 22 10:58	0° $\text{III}$			11143 Feb 18 15:55	0° $\approx$	
	11140 Aug 15 17:15	0° $\text{Q}$			11143 Mar 15 12:05	0° $\text{X}$	
	11140 Sep 09 07:19	0° $\text{III}$			11143 Apr 08 22:59	0° $\text{Y}$	
	11140 Oct 04 10:16	0° $\text{X}$		desc. node	11143 Apr 18 04:11	11° $\text{Y}$ 23'43	
	11140 Oct 30 11:51	0° $\text{Z}$			11143 May 03 03:30	0° $\text{B}$	
desc. node	11140 Oct 31 04:48	0° $\text{Z}$ 47'27			11143 May 27 03:36	0° $\text{II}$	
	11140 Nov 27 11:10	0° $\approx$		morning set	11143 Jun 02 23:28	8° $\text{II}$ 33'44	
evening max el	11140 Dec 06 01:34	8° $\approx$ 28'54	45°49'17		11143 Jun 20 01:21	0° $\text{C}$	
	11141 Jan 01 00:15	0° $\text{X}$					
greatest brilliancy	11141 Jan 14 02:28	6° $\text{X}$ 40'10	-4.8m	superior conj	11143 Jul 13 00:33	28° $\text{C}$ 50'02	-0°59'40
retrograde	11141 Jan 23 21:21	8° $\text{X}$ 24'27		minimum elong	11143 Jul 13 12:08	29° $\text{C}$ 26'19	0°59'50
evening set	11141 Feb 07 23:07	3° $\text{X}$ 59'02			11143 Jul 13 22:52	0° $\text{Q}$	
inferior conj	11141 Feb 13 23:51	0° $\text{X}$ 22'27	-1°47'56	max. Earth dist.	11143 Jul 15 00:11	1° $\text{Q}$ 19'21	1.71481 AU
minimum elong	11141 Feb 14 03:52	0° $\text{X}$ 16'12	1°46'20		11143 Aug 06 21:55	0° $\text{III}$	
min. Earth dist.	11141 Feb 14 12:22	0° $\text{X}$ 02'57	0.28121 AU	asc. node	11143 Aug 08 21:08	2° $\text{III}$ 27'26	
	11141 Feb 14 14:16	30° $\text{X}$		evening rise	11143 Aug 21 18:26	18° $\text{III}$ 31'53	
morning rise	11141 Feb 20 08:09	26° $\approx$ 34'58			11143 Aug 30 23:38	0° $\text{Q}$	
asc. node	11141 Feb 21 05:59	26° $\approx$ 05'47			11143 Sep 24 05:01	0° $\text{III}$	
direct	11141 Mar 07 05:13	22° $\approx$ 13'51			11143 Oct 18 15:42	0° $\text{X}$	
greatest brilliancy	11141 Mar 18 01:28	24° $\approx$ 25'24	-4.8m		11143 Nov 12 10:13	0° $\text{Z}$	
	11141 Mar 28 16:17	0° $\text{X}$		desc. node	11143 Nov 28 15:40	19° $\text{Z}$ 21'46	
morning max el	11141 Apr 26 09:18	24° $\text{X}$ 32'17	46°39'02		11143 Dec 07 16:03	0° $\approx$	
	11141 May 01 18:09	0° $\text{Y}$			11144 Jan 02 14:17	0° $\text{X}$	
	11141 May 29 02:41	0° $\text{B}$			11144 Jan 29 17:07	0° $\text{Y}$	
desc. node	11141 Jun 13 03:57	17° $\text{B}$ 29'19		evening max el	11144 Feb 16 16:51	18° $\text{Y}$ 28'49	46°13'53
	11141 Jun 23 17:05	0° $\text{II}$			11144 Feb 29 01:45	0° $\text{B}$	
	11141 Jul 18 13:30	0° $\text{C}$		asc. node	11144 Mar 20 16:06	15° $\text{B}$ 02'08	
	11141 Aug 12 01:58	0° $\text{Q}$		greatest brilliancy	11144 Mar 27 14:55	18° $\text{B}$ 09'40	-4.8m
	11141 Sep 05 11:23	0° $\text{III}$		retrograde	11144 Apr 06 08:27	19° $\text{B}$ 56'06	
	11141 Sep 29 19:44	0° $\text{Q}$		evening set	11144 Apr 22 20:20	14° $\text{B}$ 41'06	
asc. node	11141 Oct 03 22:09	5° $\text{Q}$ 03'17		inferior conj	11144 Apr 27 02:53	12° $\text{B}$ 05'53	7°57'55
	11141 Oct 24 03:26	0° $\text{III}$		minimum elong	11144 Apr 26 17:08	12° $\text{B}$ 20'59	7°55'57
morning set	11141 Oct 28 10:57	5° $\text{III}$ 19'20		min. Earth dist.	11144 Apr 27 02:33	12° $\text{B}$ 06'23	0.27374 AU
	11141 Nov 17 10:40	0° $\text{X}$		morning rise	11144 Apr 30 13:47	9° $\text{B}$ 58'57	
				direct	11144 May 17 21:54	4° $\text{B}$ 10'37	
superior conj	11141 Dec 04 07:00	20° $\text{X}$ 47'46	1°25'03	greatest brilliancy	11144 May 27 19:41	6° $\text{B}$ 01'13	-4.9m
minimum elong	11141 Dec 04 09:58	20° $\text{X}$ 56'56	1°25'39		11144 Jun 30 06:44	0° $\text{II}$	
max. Earth dist.	11141 Dec 05 01:53	21° $\text{X}$ 45'59	1.73202 AU	morning max el	11144 Jul 07 09:13	6° $\text{II}$ 57'24	46°58'00
	11141 Dec 11 18:01	0° $\text{Z}$		desc. node	11144 Jul 10 15:28	10° $\text{II}$ 16'15	
	11142 Jan 05 02:12	0° $\approx$			11144 Jul 29 01:18	0° $\text{C}$	
evening rise	11142 Jan 10 09:52	6° $\approx$ 33'00			11144 Aug 24 07:56	0° $\text{Q}$	
desc. node	11142 Jan 23 13:59	22° $\approx$ 45'20			11144 Sep 18 17:40	0° $\text{III}$	
	11142 Jan 29 11:24	0° $\text{X}$			11144 Oct 13 17:55	0° $\text{Q}$	
	11142 Feb 22 21:10	0° $\text{Y}$		asc. node	11144 Oct 31 11:25	21° $\text{Q}$ 26'51	
	11142 Mar 19 07:15	0° $\text{B}$			11144 Nov 07 12:20	0° $\text{III}$	
	11142 Apr 12 18:56	0° $\text{II}$			11144 Dec 02 02:10	0° $\text{X}$	
	11142 May 07 11:58	0° $\text{C}$			11144 Dec 26 12:32	0° $\text{Z}$	
asc. node	11142 May 16 10:38	10° $\text{C}$ 44'01		morning set	11145 Jan 05 03:53	11° $\text{Z}$ 52'18	
	11142 Jun 01 17:48	0° $\text{Q}$			11145 Jan 19 20:36	0° $\approx$	
	11142 Jun 28 04:23	0° $\text{III}$		max. Earth dist.	11145 Feb 09 12:01	25° $\approx$ 30'29	1.72817 AU
evening max el	11142 Jul 14 13:57	17° $\text{III}$ 14'07	46°41'51				
	11142 Jul 28 01:32	0° $\text{Q}$		superior conj	11145 Feb 11 12:23	28° $\approx$ 00'03	0°20'41
greatest brilliancy	11142 Aug 22 16:48	17° $\text{Q}$ 19'27	-4.8m	minimum elong	11145 Feb 11 17:08	28° $\approx$ 14'44	0°20'51
retrograde	11142 Sep 02 18:51	19° $\text{Q}$ 35'10			11145 Feb 13 03:09	0° $\text{X}$	
desc. node	11142 Sep 05 10:30	19° $\text{Q}$ 26'41		desc. node	11145 Feb 20 03:09	8° $\text{X}$ 39'55	

	11145 Mar 09 08:08	0°Υ		morning max el	11147 Sep 19 06:47	20°Ω25'21	46°22'58
evening rise	11145 Mar 22 03:47	15°Υ55'30			11147 Sep 28 18:40	0°Π	
	11145 Apr 02 11:17	0°Ϣ			11147 Oct 26 10:30	0°Δ	
	11145 Apr 26 13:04	0°Π			11147 Nov 21 14:06	0°Π	
	11145 May 20 15:13	0°Φ		asc. node	11147 Nov 29 00:19	8°Π42'11	
asc. node	11145 Jun 12 21:59	28°Φ50'13			11147 Dec 16 23:10	0°ϣ	
	11145 Jun 13 20:37	0°Ω			11148 Jan 10 20:36	0°ϣ	
	11145 Jul 08 09:05	0°Π			11148 Feb 04 10:29	0°≈	
	11145 Aug 02 10:27	0°Δ			11148 Feb 28 19:16	0°ϣ	
	11145 Aug 28 12:53	0°Π		morning set	11148 Mar 16 11:07	20°ϣ37'58	
evening max el	11145 Sep 23 11:57	27°Π23'37	46°05'28	desc. node	11148 Mar 19 16:33	24°ϣ38'17	
	11145 Sep 26 04:26	0°ϣ			11148 Mar 24 00:07	0°Υ	
desc. node	11145 Oct 02 20:32	6°ϣ12'45			11148 Apr 17 01:31	0°Ϣ	
greatest brilliancy	11145 Nov 01 15:02	26°ϣ23'44	-4.8m	max. Earth dist.	11148 Apr 22 11:31	6°Ϣ46'28	1.71666 AU
retrograde	11145 Nov 11 21:50	28°ϣ19'47					
evening set	11145 Nov 30 06:39	22°ϣ00'59		superior conj	11148 Apr 25 07:54	10°Ϣ20'27	-1°14'38
inferior conj	11145 Dec 03 10:59	20°ϣ02'21	-8°37'44	minimum elong	11148 Apr 24 21:24	9°Ϣ47'34	1°14'44
minimum elong	11145 Dec 03 13:57	19°ϣ57'41	8°36'58		11148 May 11 00:16	0°Π	
min. Earth dist.	11145 Dec 03 11:51	20°ϣ01'00	0.29064 AU		11148 Jun 03 21:53	0°Φ	
morning rise	11145 Dec 06 21:16	17°ϣ54'35		evening rise	11148 Jun 04 10:08	0°Φ38'26	
direct	11145 Dec 24 21:20	11°ϣ46'44			11148 Jun 27 20:26	0°Ω	
greatest brilliancy	11146 Jan 04 10:12	13°ϣ47'18	-4.7m	asc. node	11148 Jul 10 10:09	15°Ω42'02	
asc. node	11146 Jan 23 21:27	25°ϣ23'36			11148 Jul 21 21:58	0°Π	
	11146 Jan 29 12:54	0°ϣ			11148 Aug 15 04:32	0°Δ	
morning max el	11146 Feb 12 02:33	12°ϣ28'07	45°53'56		11148 Sep 08 19:06	0°Π	
	11146 Mar 01 02:53	0°≈			11148 Oct 03 22:59	0°ϣ	
	11146 Mar 27 21:23	0°ϣ		desc. node	11148 Oct 30 06:45	0°ϣ11'55	
	11146 Apr 22 07:19	0°Υ			11148 Oct 30 02:29	0°ϣ	
desc. node	11146 May 15 17:25	28°Υ24'06			11148 Nov 27 06:46	0°≈	
	11146 May 17 00:45	0°Ϣ		evening max el	11148 Dec 03 17:12	6°≈18'16	45°49'09
	11146 Jun 10 08:37	0°Π			11149 Jan 02 04:47	0°ϣ	
	11146 Jul 04 11:21	0°Φ		greatest brilliancy	11149 Jan 11 17:43	4°ϣ27'55	-4.8m
	11146 Jul 28 12:16	0°Ω		retrograde	11149 Jan 21 11:54	6°ϣ11'22	
morning set	11146 Aug 16 05:26	23°Ω20'50		evening set	11149 Feb 05 16:03	1°ϣ43'38	
	11146 Aug 21 13:30	0°Π			11149 Feb 08 15:20	30°ϣ≈	
asc. node	11146 Sep 05 10:25	18°Π31'06		inferior conj	11149 Feb 11 15:06	28°≈09'01	-2°08'56
	11146 Sep 14 16:01	0°Δ		minimum elong	11149 Feb 11 19:51	28°≈01'36	2°07'05
				min. Earth dist.	11149 Feb 12 04:04	27°≈48'45	0.28161 AU
superior conj	11146 Sep 23 21:11	11°Δ27'02	0°42'52	morning rise	11149 Feb 17 23:11	24°≈21'22	
minimum elong	11146 Sep 23 12:29	11°Δ00'04	0°42'33	asc. node	11149 Feb 20 07:53	23°≈08'19	
max. Earth dist.	11146 Sep 26 01:02	14°Δ08'01	1.72524 AU	direct	11149 Mar 04 20:59	20°≈00'06	
	11146 Oct 08 20:05	0°Π		greatest brilliancy	11149 Mar 15 17:18	22°≈11'21	-4.8m
evening rise	11146 Oct 31 01:44	27°Π30'23			11149 Mar 29 14:58	0°ϣ	
	11146 Nov 02 02:15	0°ϣ		morning max el	11149 Apr 23 23:40	22°ϣ14'10	46°37'22
	11146 Nov 26 11:35	0°ϣ			11149 May 01 13:42	0°Υ	
	11146 Dec 21 01:16	0°≈			11149 May 28 17:37	0°Ϣ	
desc. node	11146 Dec 26 03:29	6°≈11'18		desc. node	11149 Jun 12 05:58	16°Ϣ54'46	
	11147 Jan 14 19:52	0°ϣ			11149 Jun 23 06:11	0°Π	
	11147 Feb 08 19:54	0°Υ			11149 Jul 18 01:38	0°Φ	
	11147 Mar 06 03:42	0°Ϣ			11149 Aug 11 13:29	0°Ω	
	11147 Apr 01 03:45	0°Π			11149 Sep 04 22:28	0°Π	
asc. node	11147 Apr 18 02:05	18°Π39'31			11149 Sep 29 06:30	0°Δ	
	11147 Apr 28 22:50	0°Φ		asc. node	11149 Oct 02 23:56	4°Δ35'44	
evening max el	11147 Apr 30 15:18	1°Φ41'55	46°48'16		11149 Oct 23 14:00	0°Π	
	11147 Jun 04 12:31	0°Ω		morning set	11149 Oct 26 03:12	3°Π08'53	
greatest brilliancy	11147 Jun 10 03:12	2°Ω27'23	-4.9m		11149 Nov 16 21:07	0°ϣ	
retrograde	11147 Jun 19 23:41	4°Ω17'23					
	11147 Jul 04 16:37	30°ϣΦ		superior conj	11149 Dec 02 00:17	18°ϣ40'50	1°25'30
evening set	11147 Jul 06 08:56	29°Φ03'37		minimum elong	11149 Dec 02 02:32	18°ϣ47'46	1°26'07
inferior conj	11147 Jul 10 15:46	26°Φ29'28	6°37'53	max. Earth dist.	11149 Dec 02 19:47	19°ϣ40'59	1.73190 AU
minimum elong	11147 Jul 11 03:00	26°Φ12'18	6°34'43		11149 Dec 11 04:26	0°ϣ	
min. Earth dist.	11147 Jul 10 22:24	26°Φ19'20	0.27078 AU		11150 Jan 04 12:40	0°≈	
morning rise	11147 Jul 15 21:06	23°Φ23'42		evening rise	11150 Jan 08 02:10	4°≈23'08	
direct	11147 Jul 31 08:45	18°Φ42'18		desc. node	11150 Jan 22 15:55	22°≈18'47	
desc. node	11147 Aug 08 02:13	19°Φ50'47			11150 Jan 28 22:01	0°ϣ	
greatest brilliancy	11147 Aug 10 08:05	20°Φ34'09	-4.9m		11150 Feb 22 08:02	0°Υ	
	11147 Aug 26 23:46	0°Ω			11150 Mar 18 18:31	0°Ϣ	

	11150 Apr 12 06:46	0°♄			11152 Dec 01 12:57	0°♁		
	11150 May 07 00:41	0°♅			11152 Dec 25 23:06	0°♄		
asc. node	11150 May 15 12:38	10°♅10'40		morning set	11153 Jan 02 20:41	9°♄43'41		
	11150 Jun 01 08:05	0°♄			11153 Jan 19 07:07	0°♁		
	11150 Jun 27 22:08	0°♅		max. Earth dist.	11153 Feb 07 07:22	23°♁29'13	1.72848 AU	
evening max el	11150 Jul 12 04:07	14°♅54'03	46°42'44					
	11150 Jul 28 08:04	0°♄		superior conj	11153 Feb 09 03:32	25°♁45'50	0°24'04	
greatest brilliancy	11150 Aug 20 08:53	15°♄03'23	-4.8m	minimum elong	11153 Feb 09 08:59	26°♁02'39	0°24'13	
retrograde	11150 Aug 31 09:13	17°♄17'48			11153 Feb 12 13:42	0°♁		
desc. node	11150 Sep 04 12:24	16°♄57'12		desc. node	11153 Feb 19 04:56	8°♁12'44		
evening set	11150 Sep 15 10:49	12°♄51'54			11153 Mar 08 18:47	0°♅		
min. Earth dist.	11150 Sep 20 18:13	9°♄42'52	0.27913 AU	evening rise	11153 Mar 19 17:56	13°♅37'06		
inferior conj	11150 Sep 21 13:30	9°♄12'58	-4°07'37		11153 Apr 01 22:03	0°♁		
minimum elong	11150 Sep 21 05:02	9°♄26'07	4°05'14		11153 Apr 25 23:59	0°♄		
morning rise	11150 Sep 26 23:54	5°♄58'06			11153 May 20 02:23	0°♅		
direct	11150 Oct 12 15:09	1°♄18'03		asc. node	11153 Jun 11 24:00	28°♅20'51		
greatest brilliancy	11150 Oct 22 03:48	2°♄56'56	-4.8m		11153 Jun 13 08:11	0°♄		
	11150 Nov 29 03:35	0°♅			11153 Jul 07 21:18	0°♅		
morning max el	11150 Nov 30 10:01	1°♅12'37	45°45'03		11153 Aug 01 23:50	0°♄		
asc. node	11150 Dec 26 12:22	28°♅08'11			11153 Aug 28 04:43	0°♅		
	11150 Dec 28 05:18	0°♁		evening max el	11153 Sep 21 03:34	25°♅11'05	46°06'38	
	11151 Jan 23 17:53	0°♄			11153 Sep 26 03:46	0°♁		
	11151 Feb 18 03:52	0°♁		desc. node	11153 Oct 01 22:33	5°♁17'21		
	11151 Mar 14 23:22	0°♁		greatest brilliancy	11153 Oct 30 05:00	24°♁11'22	-4.8m	
	11151 Apr 08 09:56	0°♅		retrograde	11153 Nov 09 14:16	26°♁09'33		
desc. node	11151 Apr 17 06:07	10°♅56'03		evening set	11153 Nov 27 22:55	19°♁49'45		
	11151 May 02 14:17	0°♁		inferior conj	11153 Dec 01 02:56	17°♁51'43	-8°40'11	
	11151 May 26 14:18	0°♄		minimum elong	11153 Dec 01 05:08	17°♁48'16	8°39'30	
morning set	11151 May 31 10:39	6°♄04'47		min. Earth dist.	11153 Dec 01 02:14	17°♁52'48	0.29064 AU	
	11151 Jun 19 11:59	0°♅		morning rise	11153 Dec 04 11:22	15°♁46'59		
				direct	11153 Dec 22 13:35	9°♁36'23		
superior conj	11151 Jul 10 12:33	26°♅23'50	-1°02'26	greatest brilliancy	11154 Jan 02 00:48	11°♁35'57	-4.7m	
minimum elong	11151 Jul 11 00:11	27°♅00'21	1°02'38	asc. node	11154 Jan 22 23:22	24°♁19'38		
max. Earth dist.	11151 Jul 12 06:06	28°♅34'07	1.71459 AU		11154 Jan 29 17:25	0°♄		
	11151 Jul 13 09:29	0°♄		morning max el	11154 Feb 09 18:49	10°♄17'29	45°52'47	
	11151 Aug 06 08:32	0°♅			11154 Feb 28 19:52	0°♁		
asc. node	11151 Aug 07 22:56	1°♅59'56			11154 Mar 27 11:16	0°♁		
evening rise	11151 Aug 19 08:01	16°♅11'32			11154 Apr 21 19:50	0°♅		
	11151 Aug 30 10:18	0°♄		desc. node	11154 May 14 19:22	27°♅53'55		
	11151 Sep 23 15:49	0°♅			11154 May 16 12:31	0°♁		
	11151 Oct 18 02:44	0°♁			11154 Jun 09 19:56	0°♄		
	11151 Nov 11 21:45	0°♄			11154 Jul 03 22:23	0°♅		
desc. node	11151 Nov 27 17:44	18°♄52'10			11154 Jul 27 23:05	0°♄		
	11151 Dec 07 04:29	0°♁		morning set	11154 Aug 13 19:32	21°♄01'46		
	11152 Jan 02 04:23	0°♁			11154 Aug 21 00:11	0°♅		
	11152 Jan 29 10:51	0°♅		asc. node	11154 Sep 04 12:15	18°♅03'46		
evening max el	11152 Feb 14 06:08	16°♅08'39	46°12'45		11154 Sep 14 02:37	0°♄		
	11152 Feb 29 08:31	0°♁						
asc. node	11152 Mar 19 18:04	13°♁28'25		superior conj	11154 Sep 21 12:33	9°♄12'51	0°39'48	
greatest brilliancy	11152 Mar 25 03:48	15°♁47'42	-4.8m	minimum elong	11154 Sep 21 04:18	8°♄47'12	0°39'28	
retrograde	11152 Apr 03 21:46	17°♁34'53		max. Earth dist.	11154 Sep 23 18:56	12°♄01'41	1.72494 AU	
evening set	11152 Apr 20 05:30	12°♁25'31			11154 Oct 08 06:39	0°♅		
inferior conj	11152 Apr 24 16:26	9°♁44'14	7°45'28	evening rise	11154 Oct 28 18:31	25°♅21'14		
minimum elong	11152 Apr 24 06:16	9°♁59'56	7°43'21		11154 Nov 01 12:53	0°♁		
min. Earth dist.	11152 Apr 24 16:00	9°♁44'54	0.27387 AU		11154 Nov 25 22:23	0°♄		
morning rise	11152 Apr 28 06:53	7°♁32'13			11154 Dec 20 12:22	0°♁		
direct	11152 May 15 11:24	1°♁48'23		desc. node	11154 Dec 25 05:20	5°♁42'59		
greatest brilliancy	11152 May 25 10:14	3°♁40'08	-4.9m		11155 Jan 14 07:29	0°♁		
	11152 Jun 30 07:35	0°♄			11155 Feb 08 08:16	0°♅		
morning max el	11152 Jul 04 23:16	4°♄36'03	46°58'19		11155 Mar 05 17:21	0°♁		
desc. node	11152 Jul 09 17:29	9°♄27'40			11155 Mar 31 19:52	0°♄		
	11152 Jul 28 17:58	0°♅		asc. node	11155 Apr 17 04:10	17°♄54'01		
	11152 Aug 23 21:50	0°♄		evening max el	11155 Apr 28 05:56	29°♄21'29	46°47'37	
	11152 Sep 18 06:11	0°♅			11155 Apr 28 21:21	0°♅		
	11152 Oct 13 05:36	0°♄		greatest brilliancy	11155 Jun 07 16:45	0°♄03'15	-4.9m	
asc. node	11152 Oct 30 13:25	20°♄58'45			11155 Jun 07 13:07	0°♄		
	11152 Nov 06 23:28	0°♅		retrograde	11155 Jun 17 13:09	1°♄52'42		

	11155 Jun 27 03:03	30° $\text{R}\text{E}$	superior conj	11157 Nov 29 17:49	16° $\text{X}$ 33'58	1°25'49
evening set	11155 Jul 04 01:33	26° $\text{E}$ 34'07	minimum elong	11157 Nov 29 19:21	16° $\text{X}$ 38'42	1°26'27
inferior conj	11155 Jul 08 04:40	24° $\text{E}$ 05'01 6°54'23	max. Earth dist.	11157 Nov 30 13:03	17° $\text{X}$ 33'18	1.73184 AU
minimum elong	11155 Jul 08 15:52	23° $\text{E}$ 47'53 6°51'21		11157 Dec 10 15:08	0° $\text{Z}$	
min. Earth dist.	11155 Jul 08 11:22	23° $\text{E}$ 54'46 0.27076 AU		11158 Jan 03 23:28	0° $\approx$	
morning rise	11155 Jul 13 06:16	21° $\text{E}$ 04'23	evening rise	11158 Jan 05 18:36	2° $\approx$ 12'42	
direct	11155 Jul 28 22:13	16° $\text{E}$ 18'04	desc. node	11158 Jan 21 17:44	21° $\approx$ 50'45	
desc. node	11155 Aug 07 04:02	17° $\text{E}$ 55'00		11158 Jan 28 09:00	0° $\text{X}$	
greatest brilliancy	11155 Aug 07 20:11	18° $\text{E}$ 08'59 -4.9m		11158 Feb 21 19:19	0° $\text{Y}$	
	11155 Aug 27 16:08	0° $\text{O}$		11158 Mar 18 06:14	0° $\text{B}$	
morning max el	11155 Sep 16 20:46	18° $\text{O}$ 05'46 46°24'30		11158 Apr 11 19:04	0° $\text{II}$	
	11155 Sep 28 14:05	0° $\text{P}$		11158 May 06 13:54	0° $\text{E}$	
	11155 Oct 26 01:22	0° $\text{L}$	asc. node	11158 May 14 14:37	9° $\text{E}$ 35'51	
	11155 Nov 21 03:00	0° $\text{M}$		11158 May 31 22:58	0° $\text{O}$	
asc. node	11155 Nov 28 02:15	8° $\text{M}$ 10'53		11158 Jun 27 16:46	0° $\text{P}$	
	11155 Dec 16 11:04	0° $\text{X}$	evening max el	11158 Jul 09 17:32	12° $\text{P}$ 30'56 46°43'40	
	11156 Jan 10 07:57	0° $\text{Z}$		11158 Jul 28 17:41	0° $\text{L}$	
	11156 Feb 03 21:31	0° $\approx$	greatest brilliancy	11158 Aug 18 00:51	12° $\text{L}$ 46'00 -4.8m	
	11156 Feb 28 06:09	0° $\text{X}$	retrograde	11158 Aug 28 23:41	14° $\text{L}$ 59'39	
morning set	11156 Mar 14 00:40	18° $\text{X}$ 17'32	desc. node	11158 Sep 03 14:28	14° $\text{L}$ 21'28	
desc. node	11156 Mar 18 18:26	24° $\text{X}$ 10'31	evening set	11158 Sep 12 23:52	10° $\text{L}$ 36'13	
	11156 Mar 23 10:56	0° $\text{Y}$	min. Earth dist.	11158 Sep 18 09:37	7° $\text{L}$ 24'20 0.27856 AU	
	11156 Apr 16 12:21	0° $\text{B}$	inferior conj	11158 Sep 19 04:01	6° $\text{L}$ 55'50 -3°48'03	
max. Earth dist.	11156 Apr 19 19:00	4° $\text{B}$ 05'48 1.71702 AU	minimum elong	11158 Sep 18 20:03	7° $\text{L}$ 08'12 3°45'46	
			morning rise	11158 Sep 24 16:49	3° $\text{L}$ 37'38	
superior conj	11156 Apr 22 19:52	7° $\text{B}$ 53'43 -1°12'32		11158 Oct 03 04:03	30° $\text{R}$ $\text{P}$	
minimum elong	11156 Apr 22 09:00	7° $\text{B}$ 19'44 1°12'35	direct	11158 Oct 10 04:33	29° $\text{P}$ 01'30	
	11156 May 10 11:09	0° $\text{II}$		11158 Oct 17 11:03	0° $\text{L}$	
evening rise	11156 Jun 01 21:02	28° $\text{II}$ 07'35	greatest brilliancy	11158 Oct 19 18:43	0° $\text{L}$ 41'25 -4.8m	
	11156 Jun 03 08:52	0° $\text{E}$	morning max el	11158 Nov 27 23:43	28° $\text{L}$ 55'46 45°45'52	
	11156 Jun 27 07:30	0° $\text{O}$		11158 Nov 29 02:25	0° $\text{M}$	
asc. node	11156 Jul 09 11:59	15° $\text{O}$ 13'02	asc. node	11158 Dec 25 14:15	27° $\text{M}$ 29'33	
	11156 Jul 21 09:10	0° $\text{P}$		11158 Dec 27 21:04	0° $\text{X}$	
	11156 Aug 14 15:59	0° $\text{L}$		11159 Jan 23 07:13	0° $\text{Z}$	
	11156 Sep 08 07:04	0° $\text{M}$		11159 Feb 17 16:05	0° $\approx$	
	11156 Oct 03 11:56	0° $\text{X}$		11159 Mar 14 11:02	0° $\text{X}$	
desc. node	11156 Oct 29 08:46	29° $\text{X}$ 35'43		11159 Apr 07 21:19	0° $\text{Y}$	
	11156 Oct 29 17:31	0° $\text{Z}$	desc. node	11159 Apr 16 08:06	10° $\text{Y}$ 27'13	
	11156 Nov 27 03:23	0° $\approx$		11159 May 02 01:30	0° $\text{B}$	
evening max el	11156 Dec 01 07:53	4° $\approx$ 04'25 45°48'50		11159 May 26 01:24	0° $\text{II}$	
	11157 Jan 03 23:29	0° $\text{X}$	morning set	11159 May 28 21:31	3° $\text{II}$ 33'34	
greatest brilliancy	11157 Jan 09 09:16	2° $\text{X}$ 14'40 -4.8m		11159 Jun 18 23:01	0° $\text{E}$	
retrograde	11157 Jan 19 01:58	3° $\text{X}$ 57'02				
	11157 Feb 02 08:15	30° $\text{R}\approx$	superior conj	11159 Jul 08 00:19	23° $\text{E}$ 55'41 -1°05'06	
evening set	11157 Feb 03 08:59	29° $\approx$ 26'35	minimum elong	11159 Jul 08 11:57	24° $\text{E}$ 32'13 1°05'20	
inferior conj	11157 Feb 09 06:16	25° $\approx$ 54'20 -2°29'39	max. Earth dist.	11159 Jul 09 12:21	25° $\text{E}$ 48'44 1.71438 AU	
minimum elong	11157 Feb 09 11:43	25° $\approx$ 45'48 2°27'36		11159 Jul 12 20:28	0° $\text{O}$	
min. Earth dist.	11157 Feb 09 19:59	25° $\approx$ 32'52 0.28204 AU		11159 Aug 05 19:32	0° $\text{P}$	
morning rise	11157 Feb 15 13:55	22° $\approx$ 06'46	asc. node	11159 Aug 07 00:49	1° $\text{P}$ 31'28	
asc. node	11157 Feb 19 09:50	20° $\approx$ 13'02	evening rise	11159 Aug 16 21:33	13° $\text{P}$ 49'50	
direct	11157 Mar 02 12:12	17° $\approx$ 44'53		11159 Aug 29 21:21	0° $\text{L}$	
greatest brilliancy	11157 Mar 13 09:37	19° $\approx$ 56'35 -4.8m		11159 Sep 23 02:58	0° $\text{M}$	
	11157 Mar 30 08:17	0° $\text{X}$		11159 Oct 17 14:08	0° $\text{X}$	
morning max el	11157 Apr 21 13:10	19° $\text{X}$ 52'47 46°35'49		11159 Nov 11 09:38	0° $\text{Z}$	
	11157 May 01 09:05	0° $\text{Y}$	desc. node	11159 Nov 26 19:38	18° $\text{Z}$ 21'10	
	11157 May 28 08:41	0° $\text{B}$		11159 Dec 06 17:16	0° $\approx$	
desc. node	11157 Jun 11 07:53	16° $\text{B}$ 19'14		11160 Jan 01 18:55	0° $\text{X}$	
	11157 Jun 22 19:30	0° $\text{II}$		11160 Jan 29 05:23	0° $\text{Y}$	
	11157 Jul 17 14:00	0° $\text{E}$	evening max el	11160 Feb 11 20:03	13° $\text{Y}$ 49'11 46°11'25	
	11157 Aug 11 01:15	0° $\text{O}$		11160 Feb 29 18:33	0° $\text{B}$	
	11157 Sep 04 09:47	0° $\text{P}$	asc. node	11160 Mar 18 20:08	11° $\text{B}$ 49'48	
	11157 Sep 28 17:30	0° $\text{L}$	greatest brilliancy	11160 Mar 22 16:03	13° $\text{B}$ 23'35 -4.8m	
asc. node	11157 Oct 02 01:57	4° $\text{L}$ 08'08	retrograde	11160 Apr 01 11:25	15° $\text{B}$ 11'55	
	11157 Oct 23 00:47	0° $\text{M}$	evening set	11160 Apr 17 14:35	10° $\text{B}$ 08'00	
morning set	11157 Oct 23 19:44	0° $\text{M}$ 58'29	inferior conj	11160 Apr 22 05:49	7° $\text{B}$ 20'38 7°32'07	
	11157 Nov 16 07:49	0° $\text{X}$	minimum elong	11160 Apr 21 19:18	7° $\text{B}$ 36'51 7°29'50	
			min. Earth dist.	11160 Apr 22 05:03	7° $\text{B}$ 21'49 0.27404 AU	

morning rise	11160 Apr 25 23:53	5°♄03'30		11162 Oct 31 23:41	0°♄	
	11160 May 07 16:27	30°♄		11162 Nov 25 09:21	0°♄	
direct	11160 May 13 01:17	29°♄24'18		11162 Dec 19 23:38	0°♄	
	11160 May 18 13:31	0°♄	desc. node	11162 Dec 24 07:13	5°♄14'20	
greatest brilliancy	11160 May 23 00:14	1°♄16'40 -4.9m		11163 Jan 13 19:12	0°♄	
	11160 Jun 30 07:53	0°♄		11163 Feb 07 20:45	0°♄	
morning max el	11160 Jul 02 13:54	2°♄14'46 46°58'38		11163 Mar 05 07:07	0°♄	
desc. node	11160 Jul 08 19:22	8°♄38'01		11163 Mar 31 12:14	0°♄	
	11160 Jul 28 10:47	0°♄	asc. node	11163 Apr 16 06:07	17°♄07'35	
	11160 Aug 23 11:59	0°♄	evening max el	11163 Apr 25 19:45	26°♄58'58 46°46'37	
	11160 Sep 17 18:58	0°♄		11163 Apr 28 20:53	0°♄	
	11160 Oct 12 17:34	0°♄	greatest brilliancy	11163 Jun 05 06:32	27°♄38'56 -4.9m	
asc. node	11160 Oct 29 15:17	20°♄29'21	retrograde	11163 Jun 15 01:55	29°♄27'10	
	11160 Nov 06 10:53	0°♄	evening set	11163 Jul 01 18:04	24°♄03'50	
	11160 Nov 30 24:00	0°♄	inferior conj	11163 Jul 05 17:28	21°♄39'49 7°10'10	
	11160 Dec 25 09:57	0°♄	minimum elong	11163 Jul 06 04:31	21°♄22'52 7°07'17	
morning set	11160 Dec 31 14:01	7°♄35'54	min. Earth dist.	11163 Jul 06 00:28	21°♄29'04 0.27081 AU	
	11161 Jan 18 17:53	0°♄	morning rise	11163 Jul 10 15:03	18°♄44'27	
max. Earth dist.	11161 Feb 05 03:54	21°♄30'59 1.72878 AU	direct	11163 Jul 26 11:10	13°♄52'53	
			greatest brilliancy	11163 Aug 05 08:44	15°♄43'13 -4.9m	
superior conj	11161 Feb 06 19:13	23°♄32'33 0°27'21	desc. node	11163 Aug 06 06:08	16°♄03'01	
minimum elong	11161 Feb 07 01:18	23°♄51'22 0°27'31		11163 Aug 28 04:45	0°♄	
	11161 Feb 12 00:30	0°♄	morning max el	11163 Sep 14 09:46	15°♄42'46 46°26'07	
desc. node	11161 Feb 18 06:53	7°♄45'20		11163 Sep 28 09:12	0°♄	
	11161 Mar 08 05:41	0°♄		11163 Oct 25 16:09	0°♄	
evening rise	11161 Mar 17 08:26	11°♄19'01		11163 Nov 20 15:52	0°♄	
	11161 Apr 01 09:07	0°♄	asc. node	11163 Nov 27 04:07	7°♄39'24	
	11161 Apr 25 11:17	0°♄		11163 Dec 15 22:54	0°♄	
	11161 May 19 13:58	0°♄		11164 Jan 09 19:14	0°♄	
asc. node	11161 Jun 11 01:48	27°♄49'31		11164 Feb 03 08:29	0°♄	
	11161 Jun 12 20:12	0°♄		11164 Feb 27 16:57	0°♄	
	11161 Jul 07 09:59	0°♄	morning set	11164 Mar 11 14:46	15°♄59'04	
	11161 Aug 01 13:42	0°♄	desc. node	11164 Mar 17 20:25	23°♄43'23	
	11161 Aug 27 21:11	0°♄		11164 Mar 22 21:40	0°♄	
evening max el	11161 Sep 18 19:44	22°♄59'00 46°07'56		11164 Apr 15 23:04	0°♄	
	11161 Sep 26 04:33	0°♄	max. Earth dist.	11164 Apr 17 03:27	1°♄28'43 1.71738 AU	
desc. node	11161 Oct 01 00:35	4°♄20'06				
greatest brilliancy	11161 Oct 27 19:28	21°♄59'07 -4.8m	superior conj	11164 Apr 20 08:30	5°♄29'35 -1°10'20	
retrograde	11161 Nov 07 06:54	23°♄58'49	minimum elong	11164 Apr 19 21:22	4°♄54'47 1°10'20	
evening set	11161 Nov 25 15:04	17°♄38'49		11164 May 09 21:54	0°♄	
inferior conj	11161 Nov 28 19:00	15°♄40'48 -8°42'03	evening rise	11164 May 30 08:26	25°♄38'47	
minimum elong	11161 Nov 28 20:25	15°♄38'35 8°41'24		11164 Jun 02 19:42	0°♄	
min. Earth dist.	11161 Nov 28 16:37	15°♄44'33 0.29056 AU		11164 Jun 26 18:28	0°♄	
morning rise	11161 Dec 02 01:49	13°♄38'38	asc. node	11164 Jul 08 13:54	14°♄44'36	
direct	11161 Dec 20 06:08	7°♄26'03		11164 Jul 20 20:19	0°♄	
greatest brilliancy	11161 Dec 30 14:56	9°♄23'48 -4.7m		11164 Aug 14 03:28	0°♄	
asc. node	11162 Jan 22 01:18	23°♄17'03		11164 Sep 07 19:06	0°♄	
	11162 Jan 29 20:18	0°♄		11164 Oct 03 00:59	0°♄	
morning max el	11162 Feb 07 10:53	8°♄06'14 45°51'44	desc. node	11164 Oct 28 10:43	28°♄59'05	
	11162 Feb 28 12:36	0°♄		11164 Oct 29 08:44	0°♄	
	11162 Mar 27 01:05	0°♄		11164 Nov 27 00:37	0°♄	
	11162 Apr 21 08:24	0°♄	evening max el	11164 Nov 28 21:41	1°♄48'44 45°48'47	
desc. node	11162 May 13 21:13	27°♄23'03		11165 Jan 06 22:20	0°♄	
	11162 May 16 00:25	0°♄	greatest brilliancy	11165 Jan 07 00:48	0°♄02'05 -4.8m	
	11162 Jun 09 07:28	0°♄	retrograde	11165 Jan 16 16:17	1°♄43'49	
	11162 Jul 03 09:40	0°♄		11165 Jan 26 00:45	30°♄	
	11162 Jul 27 10:12	0°♄	evening set	11165 Feb 01 02:06	27°♄10'07	
morning set	11162 Aug 11 09:09	18°♄40'18	inferior conj	11165 Feb 06 21:33	23°♄40'35 -2°50'01	
	11162 Aug 20 11:09	0°♄	minimum elong	11165 Feb 07 03:39	23°♄31'01 2°47'48	
asc. node	11162 Sep 03 14:14	17°♄36'10	min. Earth dist.	11165 Feb 07 12:02	23°♄17'54 0.28246 AU	
	11162 Sep 13 13:26	0°♄	morning rise	11165 Feb 13 04:35	19°♄53'33	
			asc. node	11165 Feb 18 11:58	17°♄22'49	
superior conj	11162 Sep 19 03:30	6°♄56'35 0°36'39	direct	11165 Feb 28 03:14	15°♄30'26	
minimum elong	11162 Sep 18 19:43	6°♄32'26 0°36'18	greatest brilliancy	11165 Mar 11 02:21	17°♄43'16 -4.8m	
max. Earth dist.	11162 Sep 21 13:39	9°♄57'13 1.72456 AU		11165 Mar 30 20:49	0°♄	
	11162 Oct 07 17:25	0°♄	morning max el	11165 Apr 19 03:13	17°♄33'35 46°34'28	
evening rise	11162 Oct 26 11:07	23°♄10'58		11165 May 01 03:37	0°♄	

	11165 May 27 23:15	0°♄			11167 Dec 06 05:49	0°♁	
desc. node	11165 Jun 10 09:47	15°♄44'51			11168 Jan 01 09:20	0°♁	
	11165 Jun 22 08:24	0°♄			11168 Jan 29 00:04	0°♁	
	11165 Jul 17 02:01	0°♄	evening max el		11168 Feb 09 10:51	11°♁33'07	46°10'15
	11165 Aug 10 12:42	0°♄			11168 Mar 01 07:25	0°♄	
	11165 Sep 03 20:52	0°♄	asc. node		11168 Mar 17 22:04	10°♄08'40	
	11165 Sep 28 04:19	0°♄	greatest brilliancy		11168 Mar 20 04:16	11°♄00'58	-4.8m
asc. node	11165 Oct 01 03:47	3°♄40'32	retrograde		11168 Mar 30 01:19	12°♄50'15	
morning set	11165 Oct 21 11:46	28°♄46'57	evening set		11168 Apr 14 23:58	7°♄51'50	
	11165 Oct 22 11:25	0°♄	inferior conj		11168 Apr 19 19:14	4°♄58'30	7°18'06
	11165 Nov 15 18:20	0°♄	minimum elong		11168 Apr 19 08:29	5°♄15'05	7°15'40
			min. Earth dist.		11168 Apr 19 17:59	5°♄00'25	0.27417 AU
superior conj	11165 Nov 27 10:58	14°♄26'26	1°26'02	morning rise	11168 Apr 23 16:56	2°♄36'09	
minimum elong	11165 Nov 27 11:46	14°♄28'53	1°26'39		11168 Apr 28 13:23	30°♄	
max. Earth dist.	11165 Nov 28 05:34	15°♄23'49	1.73174 AU	direct	11168 May 10 15:31	27°♄01'57	
	11165 Dec 10 01:37	0°♄		greatest brilliancy	11168 May 20 13:45	28°♄54'04	-4.9m
evening rise	11166 Jan 03 10:50	0°♄02'31			11168 May 23 07:28	0°♄	
	11166 Jan 03 10:01	0°♄		morning max el	11168 Jun 30 04:44	29°♄55'25	46°58'51
desc. node	11166 Jan 20 19:42	21°♄23'56			11168 Jun 30 06:33	0°♄	
	11166 Jan 27 19:45	0°♄	desc. node		11168 Jul 07 21:24	7°♄51'03	
	11166 Feb 21 06:22	0°♄			11168 Jul 28 02:48	0°♄	
	11166 Mar 17 17:41	0°♄			11168 Aug 23 01:30	0°♄	
	11166 Apr 11 07:05	0°♄			11168 Sep 17 07:12	0°♄	
	11166 May 06 02:49	0°♄			11168 Oct 12 05:00	0°♄	
asc. node	11166 May 13 16:31	9°♄01'51	asc. node		11168 Oct 28 17:07	20°♄01'22	
	11166 May 31 13:33	0°♄			11168 Nov 05 21:48	0°♄	
	11166 Jun 27 11:20	0°♄			11168 Nov 30 10:37	0°♄	
evening max el	11166 Jul 07 07:03	10°♄09'35	46°44'36		11168 Dec 24 20:25	0°♄	
	11166 Jul 29 05:51	0°♄		morning set	11168 Dec 29 07:11	5°♄28'45	
greatest brilliancy	11166 Aug 15 16:09	10°♄29'04	-4.8m		11169 Jan 18 04:19	0°♄	
retrograde	11166 Aug 26 14:30	12°♄42'52		max. Earth dist.	11169 Feb 02 22:29	19°♄27'44	1.72905 AU
desc. node	11166 Sep 02 16:29	11°♄41'51					
evening set	11166 Sep 10 13:07	8°♄21'13		superior conj	11169 Feb 04 10:42	21°♄19'40	0°30'38
min. Earth dist.	11166 Sep 16 00:48	5°♄07'04	0.27808 AU	minimum elong	11169 Feb 04 17:23	21°♄40'20	0°30'46
inferior conj	11166 Sep 16 18:32	4°♄39'41	-3°27'56		11169 Feb 11 10:58	0°♄	
minimum elong	11166 Sep 16 11:07	4°♄51'07	3°25'48	desc. node	11169 Feb 17 08:49	7°♄18'52	
morning rise	11166 Sep 22 09:41	1°♄18'30			11169 Mar 07 16:15	0°♄	
	11166 Sep 24 21:57	30°♄		evening rise	11169 Mar 14 22:39	9°♄01'10	
direct	11166 Oct 07 18:13	26°♄45'42			11169 Mar 31 19:49	0°♄	
greatest brilliancy	11166 Oct 17 09:35	28°♄26'44	-4.8m		11169 Apr 24 22:11	0°♄	
	11166 Oct 21 08:43	0°♄			11169 May 19 01:11	0°♄	
morning max el	11166 Nov 25 14:23	26°♄41'54	45°46'37	asc. node	11169 Jun 10 03:47	27°♄19'53	
	11166 Nov 29 00:03	0°♄			11169 Jun 12 07:51	0°♄	
asc. node	11166 Dec 24 16:14	26°♄52'17			11169 Jul 06 22:19	0°♄	
	11166 Dec 27 12:19	0°♄			11169 Aug 01 03:15	0°♄	
	11167 Jan 22 20:10	0°♄			11169 Aug 27 13:28	0°♄	
	11167 Feb 17 03:55	0°♄		evening max el	11169 Sep 16 11:53	20°♄48'05	46°09'11
	11167 Mar 13 22:19	0°♄			11169 Sep 26 06:05	0°♄	
	11167 Apr 07 08:17	0°♄		desc. node	11169 Sep 30 02:31	3°♄22'46	
desc. node	11167 Apr 15 09:50	9°♄58'52		greatest brilliancy	11169 Oct 25 10:32	19°♄48'53	-4.8m
	11167 May 01 12:18	0°♄		retrograde	11169 Nov 04 23:09	21°♄49'17	
	11167 May 25 12:06	0°♄		evening set	11169 Nov 23 06:56	15°♄29'51	
morning set	11167 May 26 08:38	1°♄04'21		inferior conj	11169 Nov 26 11:06	13°♄31'16	-8°43'08
	11167 Jun 18 09:38	0°♄		minimum elong	11169 Nov 26 11:44	13°♄30'16	8°42'31
				min. Earth dist.	11169 Nov 26 07:13	13°♄37'22	0.29047 AU
superior conj	11167 Jul 05 12:20	21°♄29'35	-1°07'38	morning rise	11169 Nov 29 16:38	11°♄30'56	
minimum elong	11167 Jul 05 23:53	22°♄05'51	1°07'53	direct	11169 Dec 17 22:38	5°♄17'08	
max. Earth dist.	11167 Jul 06 20:42	23°♄11'11	1.71417 AU	greatest brilliancy	11169 Dec 28 05:02	7°♄12'42	-4.7m
	11167 Jul 12 07:02	0°♄		asc. node	11170 Jan 21 03:24	22°♄17'16	
	11167 Aug 05 06:05	0°♄			11170 Jan 29 21:21	0°♄	
asc. node	11167 Aug 06 02:48	1°♄04'42		morning max el	11170 Feb 05 02:08	5°♄53'49	45°50'32
evening rise	11167 Aug 14 11:19	11°♄30'19			11170 Feb 28 04:46	0°♄	
	11167 Aug 29 07:57	0°♄			11170 Mar 26 14:34	0°♄	
	11167 Sep 22 13:43	0°♄			11170 Apr 20 20:39	0°♄	
	11167 Oct 17 01:10	0°♄		desc. node	11170 May 12 23:10	26°♄53'24	
	11167 Nov 10 21:12	0°♄			11170 May 15 12:00	0°♄	
desc. node	11167 Nov 25 21:31	17°♄50'57			11170 Jun 08 18:39	0°♄	

	11170 Jul 02 20:36	0°☾		inferior conj	11173 Feb 04 12:56	21°☾27'20	-3°10'01
	11170 Jul 26 20:58	0°♌		minimum elong	11173 Feb 04 19:40	21°☾16'48	3°07'36
morning set	11170 Aug 08 22:45	16°♌19'40		min. Earth dist.	11173 Feb 05 03:59	21°☾03'47	0.28292 AU
	11170 Aug 19 21:46	0°♍		morning rise	11173 Feb 10 19:14	17°☾41'19	
asc. node	11170 Sep 02 16:03	17°♍08'57		asc. node	11173 Feb 17 13:49	14°☾38'12	
	11170 Sep 12 23:57	0°♎		direct	11173 Feb 25 18:27	13°☾16'24	
				greatest brilliancy	11173 Mar 08 19:08	15°☾30'31	-4.8m
superior conj	11170 Sep 16 18:30	4°♎41'24	0°33'25		11173 Mar 31 06:00	0°♏	
minimum elong	11170 Sep 16 11:16	4°♎18'57	0°33'04	morning max el	11173 Apr 16 18:10	15°♏16'36	46°32'55
max. Earth dist.	11170 Sep 19 07:16	7°♎50'11	1.72415 AU		11173 Apr 30 21:47	0°♐	
	11170 Oct 07 03:53	0°♑			11173 May 27 13:50	0°♑	
evening rise	11170 Oct 24 03:49	21°♑01'54		desc. node	11173 Jun 09 11:48	15°♑10'29	
	11170 Oct 31 10:11	0°♒			11173 Jun 21 21:25	0°♒	
	11170 Nov 24 20:02	0°♓			11173 Jul 16 14:10	0°☾	
	11170 Dec 19 10:38	0°♈			11173 Aug 10 00:17	0°♌	
desc. node	11170 Dec 23 09:16	4°♈47'00			11173 Sep 03 08:02	0°♍	
	11171 Jan 13 06:44	0°♏			11173 Sep 27 15:12	0°♎	
	11171 Feb 07 09:07	0°♐		asc. node	11173 Sep 30 05:36	3°♎12'38	
	11171 Mar 04 20:55	0°♑		morning set	11173 Oct 19 03:47	26°♎35'01	
	11171 Mar 31 04:49	0°♒			11173 Oct 21 22:08	0°♑	
asc. node	11171 Apr 15 08:03	16°♒20'45			11173 Nov 15 04:58	0°♒	
evening max el	11171 Apr 23 08:37	24°♒34'23	46°45'45				
	11171 Apr 28 21:25	0°☾		superior conj	11173 Nov 25 04:15	12°♒18'54	1°26'07
greatest brilliancy	11171 Jun 02 20:56	25°☾15'46	-4.9m	minimum elong	11173 Nov 25 04:17	12°♒19'01	1°26'43
retrograde	11171 Jun 12 14:21	27°☾02'22		max. Earth dist.	11173 Nov 25 23:21	13°♒17'51	1.73165 AU
evening set	11171 Jun 29 10:39	21°☾34'09			11173 Dec 09 12:14	0°♓	
inferior conj	11171 Jul 03 06:21	19°☾15'26	7°25'10	evening rise	11174 Jan 01 03:24	27°♓52'55	
minimum elong	11171 Jul 03 17:10	18°☾58'47	7°22'25		11174 Jan 02 20:43	0°♈	
min. Earth dist.	11171 Jul 03 13:52	19°☾03'51	0.27084 AU	desc. node	11174 Jan 19 21:37	20°♈56'34	
morning rise	11171 Jul 07 23:44	16°☾25'36			11174 Jan 27 06:37	0°♏	
direct	11171 Jul 23 23:38	11°☾28'19			11174 Feb 20 17:32	0°♐	
greatest brilliancy	11171 Aug 02 21:47	13°☾18'45	-4.9m		11174 Mar 17 05:17	0°♑	
desc. node	11171 Aug 05 08:10	14°☾16'06			11174 Apr 10 19:20	0°♒	
	11171 Aug 28 13:46	0°♌			11174 May 05 16:05	0°☾	
morning max el	11171 Sep 11 22:16	13°♌19'03	46°27'43	asc. node	11174 May 12 18:31	8°☾27'07	
	11171 Sep 28 03:32	0°♍			11174 May 31 04:41	0°♌	
	11171 Oct 25 06:33	0°♎			11174 Jun 27 06:53	0°♍	
	11171 Nov 20 04:28	0°♑		evening max el	11174 Jul 04 21:24	7°♍49'10	46°45'33
asc. node	11171 Nov 26 06:06	7°♑08'54			11174 Jul 29 23:00	0°♎	
	11171 Dec 15 10:32	0°♒		greatest brilliancy	11174 Aug 13 07:01	8°♎10'12	-4.8m
	11172 Jan 09 06:20	0°♓		retrograde	11174 Aug 24 05:47	10°♎24'29	
	11172 Feb 02 19:18	0°♈		desc. node	11174 Sep 01 18:22	8°♎55'40	
	11172 Feb 27 03:38	0°♏		evening set	11174 Sep 08 02:24	6°♎04'24	
morning set	11172 Mar 09 04:49	13°♏40'45		min. Earth dist.	11174 Sep 13 15:31	2°♎48'32	0.27756 AU
desc. node	11172 Mar 16 22:13	23°♏15'49		inferior conj	11174 Sep 14 08:50	2°♎21'51	-3°07'15
	11172 Mar 22 08:20	0°♐		minimum elong	11174 Sep 14 02:03	2°♎32'19	3°05'17
max. Earth dist.	11172 Apr 14 12:55	28°♐54'48	1.71781 AU		11174 Sep 18 06:37	30°♑♍	
	11172 Apr 15 09:46	0°♑		morning rise	11174 Sep 20 02:17	28°♑58'03	
				direct	11174 Oct 05 08:03	24°♑28'25	
superior conj	11172 Apr 17 20:49	3°♑04'34	-1°08'00	greatest brilliancy	11174 Oct 14 23:37	26°♑10'01	-4.8m
minimum elong	11172 Apr 17 09:29	2°♑29'08	1°07'56		11174 Oct 23 11:11	0°♎	
	11172 May 09 08:41	0°♒		morning max el	11174 Nov 23 05:42	24°♎28'57	45°47'26
evening rise	11172 May 27 19:26	23°♒08'46			11174 Nov 28 21:09	0°♑	
	11172 Jun 02 06:33	0°☾		asc. node	11174 Dec 23 18:14	26°♑14'49	
	11172 Jun 26 05:25	0°♌			11174 Dec 27 03:34	0°♒	
asc. node	11172 Jul 07 15:52	14°♌16'20			11175 Jan 22 09:13	0°♓	
	11172 Jul 20 07:27	0°♍			11175 Feb 16 15:56	0°♈	
	11172 Aug 13 14:55	0°♎			11175 Mar 13 09:47	0°♏	
	11172 Sep 07 07:08	0°♑			11175 Apr 06 19:28	0°♐	
	11172 Oct 02 14:06	0°♒		desc. node	11175 Apr 14 11:49	9°♐30'36	
desc. node	11172 Oct 27 12:41	28°♒22'19			11175 Apr 30 23:19	0°♑	
	11172 Oct 29 00:09	0°♓		morning set	11175 May 23 19:52	28°♑34'51	
evening max el	11172 Nov 26 11:29	29°♓33'20	45°48'52		11175 May 24 23:02	0°♒	
	11172 Nov 26 22:38	0°♈			11175 Jun 17 20:33	0°☾	
greatest brilliancy	11173 Jan 04 15:57	27°☾49'33	-4.7m				
retrograde	11173 Jan 14 07:10	29°☾31'21		superior conj	11175 Jul 03 00:04	19°☾01'28	-1°10'02
evening set	11173 Jan 29 19:26	24°☾53'55		minimum elong	11175 Jul 03 11:25	19°☾37'05	1°10'20

max. Earth dist.	11175 Jul 04 06:35	20°☿37'17	1.71403 AU	greatest brilliancy	11177 Dec 25 19:28	5°♄00'33	-4.7m
	11175 Jul 11 17:57	0°♌		asc. node	11178 Jan 20 05:17	21°♄17'21	
	11175 Aug 04 17:01	0°♍			11178 Jan 29 21:38	0°♄	
asc. node	11175 Aug 05 04:37	0°♍36'12		morning max el	11178 Feb 02 16:32	3°♄38'12	45°49'29
evening rise	11175 Aug 12 00:34	9°♍07'53			11178 Feb 27 21:00	0°♄	
	11175 Aug 28 18:56	0°♌			11178 Mar 26 04:15	0°♄	
	11175 Sep 22 00:50	0°♍			11178 Apr 20 09:10	0°♄	
	11175 Oct 16 12:34	0°♄		desc. node	11178 May 12 01:07	26°♄22'49	
	11175 Nov 10 09:09	0°♄			11178 May 14 23:52	0°♄	
desc. node	11175 Nov 24 23:35	17°♄20'11			11178 Jun 08 06:08	0°♄	
	11175 Dec 05 18:48	0°♄			11178 Jul 02 07:49	0°♄	
	11176 Jan 01 00:17	0°♄			11178 Jul 26 08:00	0°♌	
	11176 Jan 28 19:38	0°♄		morning set	11178 Aug 06 12:37	13°♌58'58	
evening max el	11176 Feb 07 02:21	9°♄18'03	46°09'05		11178 Aug 19 08:41	0°♍	
	11176 Mar 02 01:04	0°♄		asc. node	11178 Sep 01 17:55	16°♍40'59	
asc. node	11176 Mar 17 00:03	8°♄23'20			11178 Sep 12 10:46	0°♌	
greatest brilliancy	11176 Mar 17 17:10	8°♄38'52	-4.8m				
retrograde	11176 Mar 27 15:11	10°♄28'22		superior conj	11178 Sep 14 09:41	2°♌25'49	0°30'09
evening set	11176 Apr 12 09:49	5°♄35'35		minimum elong	11178 Sep 14 03:03	2°♌05'12	0°29'48
inferior conj	11176 Apr 17 08:54	2°♄36'27	7°03'21	max. Earth dist.	11178 Sep 16 23:17	5°♌37'15	1.72378 AU
minimum elong	11176 Apr 16 22:01	2°♄53'17	7°00'48		11178 Oct 06 14:41	0°♍	
min. Earth dist.	11176 Apr 17 07:22	2°♄38'48	0.27428 AU	evening rise	11178 Oct 21 20:31	18°♍51'42	
morning rise	11176 Apr 21 10:09	0°♄08'45			11178 Oct 30 21:04	0°♄	
	11176 Apr 21 16:09	30°♄			11178 Nov 24 07:05	0°♄	
direct	11176 May 08 05:56	24°♄39'53			11178 Dec 18 22:00	0°♄	
greatest brilliancy	11176 May 18 03:26	26°♄31'23	-4.9m	desc. node	11178 Dec 22 11:07	4°♄17'57	
	11176 May 25 14:22	0°♄			11179 Jan 12 18:37	0°♄	
morning max el	11176 Jun 27 19:00	27°♄34'00	46°58'48		11179 Feb 06 21:52	0°♄	
	11176 Jun 30 04:35	0°♄			11179 Mar 04 11:09	0°♄	
desc. node	11176 Jul 06 23:25	7°♄04'00			11179 Mar 30 22:04	0°♄	
	11176 Jul 27 18:53	0°♄		asc. node	11179 Apr 14 10:08	15°♄32'45	
	11176 Aug 22 15:19	0°♌		evening max el	11179 Apr 20 20:55	22°♄07'34	46°44'51
	11176 Sep 16 19:48	0°♍			11179 Apr 28 23:38	0°♄	
	11176 Oct 11 16:51	0°♌		greatest brilliancy	11179 May 31 11:27	22°♄51'59	-4.9m
asc. node	11176 Oct 27 19:09	19°♌32'37		retrograde	11179 Jun 10 02:51	24°♄37'14	
	11176 Nov 05 09:09	0°♍		evening set	11179 Jun 27 03:16	19°♄03'51	
	11176 Nov 29 21:37	0°♄		inferior conj	11179 Jun 30 19:20	16°♄50'34	7°39'09
	11176 Dec 24 07:14	0°♄		minimum elong	11179 Jul 01 05:52	16°♄34'22	7°36'35
morning set	11176 Dec 27 00:21	3°♄20'30		min. Earth dist.	11179 Jul 01 03:30	16°♄37'59	0.27088 AU
	11177 Jan 17 15:06	0°♄		morning rise	11179 Jul 05 08:26	14°♄06'38	
max. Earth dist.	11177 Jan 31 15:46	17°♄19'30	1.72930 AU	direct	11179 Jul 21 11:53	9°♄03'03	
				greatest brilliancy	11179 Jul 31 11:12	10°♄54'12	-4.9m
superior conj	11177 Feb 02 02:23	19°♄06'28	0°33'50	desc. node	11179 Aug 04 10:01	12°♄32'36	
minimum elong	11177 Feb 02 09:37	19°♄28'48	0°33'58		11179 Aug 28 20:30	0°♌	
	11177 Feb 10 21:48	0°♄		morning max el	11179 Sep 09 11:15	10°♌55'47	46°29'28
desc. node	11177 Feb 16 10:37	6°♄50'52			11179 Sep 27 21:37	0°♍	
	11177 Mar 07 03:11	0°♄			11179 Oct 24 20:59	0°♌	
evening rise	11177 Mar 12 13:07	6°♄43'01			11179 Nov 19 17:14	0°♍	
	11177 Mar 31 06:54	0°♄		asc. node	11179 Nov 25 08:02	6°♍37'40	
	11177 Apr 24 09:27	0°♄			11179 Dec 14 22:24	0°♄	
	11177 May 18 12:44	0°♄			11180 Jan 08 17:41	0°♄	
asc. node	11177 Jun 09 05:47	26°♄49'17			11180 Feb 02 06:22	0°♄	
	11177 Jun 11 19:51	0°♌			11180 Feb 26 14:33	0°♄	
	11177 Jul 06 11:03	0°♍		morning set	11180 Mar 06 18:58	11°♄22'03	
	11177 Jul 31 17:20	0°♌		desc. node	11180 Mar 16 00:07	22°♄47'59	
	11177 Aug 27 06:34	0°♍			11180 Mar 21 19:11	0°♄	
evening max el	11177 Sep 14 03:31	18°♍34'18	46°10'16	max. Earth dist.	11180 Apr 12 01:38	26°♄30'36	1.71824 AU
	11177 Sep 26 09:50	0°♄			11180 Apr 14 20:40	0°♄	
desc. node	11177 Sep 29 04:33	2°♄22'47					
greatest brilliancy	11177 Oct 23 02:15	17°♄37'36	-4.8m	superior conj	11180 Apr 15 09:10	0°♄39'03	-1°05'31
retrograde	11177 Nov 02 14:53	19°♄38'03		minimum elong	11180 Apr 14 21:43	0°♄03'17	1°05'25
evening set	11177 Nov 20 22:23	13°♄19'59			11180 May 08 19:39	0°♄	
inferior conj	11177 Nov 24 03:10	11°♄20'17	-8°43'24	evening rise	11180 May 25 06:39	20°♄38'51	
minimum elong	11177 Nov 24 03:01	11°♄20'32	8°42'48		11180 Jun 01 17:36	0°♄	
min. Earth dist.	11177 Nov 23 22:11	11°♄28'09	0.29033 AU		11180 Jun 25 16:35	0°♌	
morning rise	11177 Nov 27 07:45	9°♄21'15		asc. node	11180 Jul 06 17:42	13°♌46'57	
direct	11177 Dec 15 14:40	3°♄06'48			11180 Jul 19 18:47	0°♍	



	11180 Aug 13 02:35	0°♌			11183 Mar 12 21:10	0°♏	
	11180 Sep 06 19:22	0°♍			11183 Apr 06 06:35	0°♐	
	11180 Oct 02 03:26	0°♎		desc. node	11183 Apr 13 13:47	9°♐02'26	
desc. node	11180 Oct 26 14:44	27°♎45'10			11183 Apr 30 10:17	0°♑	
	11180 Oct 28 15:56	0°♏		morning set	11183 May 21 06:53	26°♑04'55	
evening max el	11180 Nov 24 02:04	27°♏19'29 45°48'54			11183 May 24 09:54	0°♒	
	11180 Nov 26 21:46	0°♐			11183 Jun 17 07:20	0°♓	
greatest brilliancy	11181 Jan 02 06:33	25°♐35'56 -4.7m					
retrograde	11181 Jan 11 22:29	27°♐18'23		superior conj	11183 Jun 30 11:36	16°♓33'10 -1°12'18	
evening set	11181 Jan 27 12:54	22°♐37'03		minimum elong	11183 Jun 30 22:39	17°♓07'51 1°12'39	
inferior conj	11181 Feb 02 04:18	19°♐13'31 -3°29'38		max. Earth dist.	11183 Jul 01 17:52	18°♓08'11 1.71386 AU	
minimum elong	11181 Feb 02 11:37	19°♐02'04 3°27'04			11183 Jul 11 04:43	0°♑	
min. Earth dist.	11181 Feb 02 19:39	18°♐49'33 0.28339 AU		asc. node	11183 Aug 04 06:30	0°♒08'25	
morning rise	11181 Feb 08 09:43	15°♐28'58			11183 Aug 04 03:49	0°♒	
asc. node	11181 Feb 16 15:49	11°♐57'54		evening rise	11183 Aug 09 13:40	6°♒45'21	
direct	11181 Feb 23 10:05	11°♐01'55			11183 Aug 28 05:48	0°♌	
greatest brilliancy	11181 Mar 06 11:33	13°♐17'01 -4.8m			11183 Sep 21 11:50	0°♍	
	11181 Mar 31 12:48	0°♏			11183 Oct 15 23:51	0°♎	
morning max el	11181 Apr 14 10:03	13°♏01'48 46°31'23			11183 Nov 09 20:59	0°♏	
	11181 Apr 30 15:37	0°♐		desc. node	11183 Nov 24 01:30	16°♏49'28	
	11181 May 27 04:17	0°♑			11183 Dec 05 07:39	0°♐	
desc. node	11181 Jun 08 13:43	14°♑35'54			11183 Dec 31 15:12	0°♑	
	11181 Jun 21 10:23	0°♒			11184 Jan 28 15:34	0°♒	
	11181 Jul 16 02:18	0°♓		evening max el	11184 Feb 04 17:18	7°♒02'18 46°07'44	
	11181 Aug 09 11:53	0°♑			11184 Mar 03 00:44	0°♓	
	11181 Sep 02 19:15	0°♒		greatest brilliancy	11184 Mar 15 06:31	6°♓17'37 -4.8m	
	11181 Sep 27 02:09	0°♌		asc. node	11184 Mar 16 02:07	6°♓34'13	
asc. node	11181 Sep 29 07:37	2°♌45'08		retrograde	11184 Mar 25 04:18	8°♓06'33	
morning set	11181 Oct 16 19:59	24°♌23'31		evening set	11184 Apr 09 19:41	3°♓19'20	
	11181 Oct 21 08:53	0°♍		inferior conj	11184 Apr 14 22:29	0°♓14'38 6°47'44	
	11181 Nov 14 15:35	0°♎		minimum elong	11184 Apr 14 11:30	0°♓31'38 6°45'06	
				min. Earth dist.	11184 Apr 14 21:06	0°♓16'46 0.27441 AU	
superior conj	11181 Nov 22 21:39	10°♎11'39 1°26'04			11184 Apr 15 07:55	30°♒♐	
minimum elong	11181 Nov 22 20:57	10°♎09'28 1°26'41		morning rise	11184 Apr 19 03:14	27°♐41'30	
max. Earth dist.	11181 Nov 23 19:30	11°♎19'06 1.73156 AU		direct	11184 May 05 19:57	22°♐17'55	
	11181 Dec 08 22:51	0°♏		greatest brilliancy	11184 May 15 17:46	24°♐09'27 -4.9m	
evening rise	11181 Dec 29 20:03	25°♏43'34			11184 May 27 01:57	0°♑	
	11182 Jan 02 07:26	0°♐		morning max el	11184 Jun 25 08:14	25°♑10'12 46°58'45	
desc. node	11182 Jan 18 23:28	20°♐28'51			11184 Jun 30 01:41	0°♒	
	11182 Jan 26 17:34	0°♏		desc. node	11184 Jul 06 01:17	6°♒17'42	
	11182 Feb 20 04:48	0°♐			11184 Jul 27 10:31	0°♓	
	11182 Mar 16 16:59	0°♑			11184 Aug 22 04:46	0°♑	
	11182 Apr 10 07:39	0°♒			11184 Sep 16 08:05	0°♒	
	11182 May 05 05:26	0°♓			11184 Oct 11 04:24	0°♌	
asc. node	11182 May 11 20:30	7°♓52'14		asc. node	11184 Oct 26 20:59	19°♌04'09	
	11182 May 30 20:01	0°♑			11184 Nov 04 20:12	0°♍	
	11182 Jun 27 03:02	0°♒			11184 Nov 29 08:22	0°♎	
evening max el	11182 Jul 02 12:30	5°♒30'41 46°46'23			11184 Dec 23 17:48	0°♏	
	11182 Jul 30 22:19	0°♌		morning set	11184 Dec 24 17:35	1°♏13'15	
greatest brilliancy	11182 Aug 10 21:41	5°♌50'48 -4.8m			11185 Jan 17 01:36	0°♐	
retrograde	11182 Aug 21 21:07	8°♌05'20		max. Earth dist.	11185 Jan 29 08:14	15°♐09'42 1.72954 AU	
desc. node	11182 Aug 31 20:29	6°♌03'46					
evening set	11182 Sep 05 15:45	3°♌46'49		superior conj	11185 Jan 30 18:20	16°♐55'02 0°36'57	
min. Earth dist.	11182 Sep 11 05:57	0°♌29'27 0.27703 AU		minimum elong	11185 Jan 31 02:04	17°♐18'53 0°37'05	
inferior conj	11182 Sep 11 22:55	0°♌03'21 -2°46'03			11185 Feb 10 08:20	0°♏	
minimum elong	11182 Sep 11 16:48	0°♌12'46 2°44'17		desc. node	11185 Feb 15 12:35	6°♏24'19	
	11182 Sep 12 01:06	30°♒♒			11185 Mar 06 13:49	0°♐	
morning rise	11182 Sep 17 18:33	26°♒37'03		evening rise	11185 Mar 10 03:44	4°♐26'23	
direct	11182 Oct 02 22:07	22°♒10'38			11185 Mar 30 17:41	0°♑	
greatest brilliancy	11182 Oct 12 13:01	23°♒52'10 -4.8m			11185 Apr 23 20:29	0°♒	
	11182 Oct 24 20:43	0°♌			11185 May 18 00:07	0°♓	
morning max el	11182 Nov 20 21:01	22°♌16'10 45°48'22		asc. node	11185 Jun 08 07:36	26°♓18'41	
	11182 Nov 28 17:26	0°♍			11185 Jun 11 07:41	0°♑	
asc. node	11182 Dec 22 20:06	25°♍37'39			11185 Jun 05 23:37	0°♒	
	11182 Dec 26 18:28	0°♎			11185 Jul 31 07:17	0°♌	
	11183 Jan 21 22:04	0°♏			11185 Aug 26 23:43	0°♍	
	11183 Feb 16 03:49	0°♐		evening max el	11185 Sep 11 18:04	16°♍18'28 46°11'27	

	11185 Sep 26 15:05	0°♈		superior conj	11188 Apr 12 21:44	28°♏15'24	-1°02'55
desc. node	11185 Sep 28 06:34	1°♈22'12		minimum elong	11188 Apr 12 10:17	27°♏39'35	1°02'47
greatest brilliancy	11185 Oct 20 18:02	15°♈26'59	-4.8m		11188 Apr 14 07:13	0°♏	
retrograde	11185 Oct 31 06:18	17°♈27'30			11188 May 08 06:15	0°♏	
evening set	11185 Nov 18 13:20	11°♈11'15		evening rise	11188 May 22 18:14	18°♏11'19	
inferior conj	11185 Nov 21 19:09	9°♈09'58	-8°42'56		11188 Jun 01 04:17	0°♏	
minimum elong	11185 Nov 21 18:09	9°♈11'32	8°42'20		11188 Jun 25 03:23	0°♏	
min. Earth dist.	11185 Nov 21 13:21	9°♈19'06	0.29017 AU	asc. node	11188 Jul 05 19:39	13°♏19'03	
morning rise	11185 Nov 24 23:03	7°♈11'48			11188 Jul 19 05:49	0°♏	
direct	11185 Dec 13 06:03	0°♈56'57			11188 Aug 12 13:58	0°♏	
greatest brilliancy	11185 Dec 23 10:25	2°♈49'43	-4.7m		11188 Sep 06 07:22	0°♏	
asc. node	11186 Jan 19 07:15	20°♈19'52			11188 Oct 01 16:38	0°♈	
	11186 Jan 29 20:26	0°♈		desc. node	11188 Oct 25 16:38	27°♈08'02	
morning max el	11186 Jan 31 06:38	1°♈22'48	45°48'41		11188 Oct 28 07:43	0°♈	
	11186 Feb 27 12:34	0°♈		evening max el	11188 Nov 21 17:24	25°♈08'16	45°49'06
	11186 Mar 25 17:26	0°♈			11188 Nov 26 21:39	0°♈	
	11186 Apr 19 21:13	0°♏		greatest brilliancy	11188 Dec 30 20:41	23°♈22'48	-4.7m
desc. node	11186 May 11 02:57	25°♏53'05		retrograde	11189 Jan 09 13:56	25°♈06'06	
	11186 May 14 11:21	0°♏		evening set	11189 Jan 25 06:28	20°♈20'53	
	11186 Jun 07 17:16	0°♏		inferior conj	11189 Jan 30 19:35	17°♈00'21	-3°48'51
	11186 Jul 01 18:46	0°♏		minimum elong	11189 Jan 31 03:28	16°♈48'04	3°46'11
	11186 Jul 25 18:47	0°♏		min. Earth dist.	11189 Jan 31 10:52	16°♈36'30	0.28385 AU
morning set	11186 Aug 04 01:54	11°♏37'11		morning rise	11189 Feb 05 23:56	13°♈17'33	
	11186 Aug 18 19:18	0°♏		asc. node	11189 Feb 15 17:55	9°♈23'14	
asc. node	11186 Aug 31 19:54	16°♏14'14		direct	11189 Feb 21 02:10	8°♈48'13	
	11186 Sep 11 21:17	0°♏		greatest brilliancy	11189 Mar 04 03:18	11°♈03'29	-4.8m
					11189 Mar 31 17:11	0°♈	
superior conj	11186 Sep 12 00:22	0°♏09'36	0°26'47	morning max el	11189 Apr 12 02:27	10°♈49'12	46°29'53
minimum elong	11186 Sep 11 18:23	29°♏51'00	0°26'26		11189 Apr 30 08:47	0°♏	
max. Earth dist.	11186 Sep 14 13:11	3°♏18'39	1.72338 AU		11189 May 26 18:16	0°♏	
	11186 Oct 06 01:10	0°♏		desc. node	11189 Jun 07 15:36	14°♏02'23	
evening rise	11186 Oct 19 12:55	16°♏41'36			11189 Jun 20 22:56	0°♏	
	11186 Oct 30 07:37	0°♈			11189 Jul 15 14:03	0°♏	
	11186 Nov 23 17:50	0°♈			11189 Aug 08 23:07	0°♏	
	11186 Dec 18 09:04	0°♈			11189 Sep 02 06:10	0°♏	
desc. node	11186 Dec 21 13:00	3°♈49'55			11189 Sep 26 12:49	0°♏	
	11187 Jan 12 06:13	0°♈		asc. node	11189 Sep 28 09:26	2°♏17'50	
	11187 Feb 06 10:20	0°♏		morning set	11189 Oct 14 12:01	22°♏12'12	
	11187 Mar 04 01:08	0°♏			11189 Oct 20 19:24	0°♏	
	11187 Mar 30 15:13	0°♏			11189 Nov 14 02:00	0°♈	
asc. node	11187 Apr 13 12:04	14°♏44'55					
evening max el	11187 Apr 18 09:00	19°♏41'41	46°43'56	superior conj	11189 Nov 20 14:46	8°♈04'07	1°25'53
	11187 Apr 29 02:51	0°♏		minimum elong	11189 Nov 20 13:20	7°♈59'41	1°26'29
greatest brilliancy	11187 May 29 01:10	20°♏28'16	-4.9m	max. Earth dist.	11189 Nov 21 16:21	9°♈23'06	1.73144 AU
retrograde	11187 Jun 07 15:32	22°♏13'03			11189 Dec 08 09:16	0°♏	
evening set	11187 Jun 24 19:40	16°♏34'06		evening rise	11189 Dec 27 12:28	23°♏34'06	
inferior conj	11187 Jun 28 08:11	14°♏26'15	7°52'14		11190 Jan 01 17:58	0°♈	
minimum elong	11187 Jun 28 18:19	14°♏10'40	7°49'52	desc. node	11190 Jan 18 01:24	20°♈02'04	
min. Earth dist.	11187 Jun 28 16:46	14°♏13'03	0.27101 AU		11190 Jan 26 04:19	0°♈	
morning rise	11187 Jul 02 16:55	11°♏48'38			11190 Feb 19 15:53	0°♏	
direct	11187 Jul 19 00:12	6°♏38'05			11190 Mar 16 04:32	0°♏	
greatest brilliancy	11187 Jul 29 00:31	8°♏30'10	-4.9m		11190 Apr 09 19:52	0°♏	
desc. node	11187 Aug 03 12:08	10°♏53'56			11190 May 04 18:42	0°♏	
	11187 Aug 29 00:53	0°♏		asc. node	11190 May 10 22:24	7°♏17'27	
morning max el	11187 Sep 07 01:08	8°♏35'17	46°31'09		11190 May 30 11:20	0°♏	
	11187 Sep 27 15:01	0°♏			11190 Jun 26 23:31	0°♏	
	11187 Oct 24 10:58	0°♏		evening max el	11190 Jun 30 04:17	3°♏14'47	46°47'14
	11187 Nov 19 05:36	0°♏			11190 Aug 01 06:04	0°♏	
asc. node	11187 Nov 24 09:54	6°♏07'19		greatest brilliancy	11190 Aug 08 12:45	3°♏33'04	-4.8m
	11187 Dec 14 09:54	0°♈		retrograde	11190 Aug 19 12:17	5°♏47'13	
	11188 Jan 08 04:41	0°♈		desc. node	11190 Aug 30 22:26	3°♏08'47	
	11188 Feb 01 17:06	0°♈		evening set	11190 Sep 03 05:31	1°♏30'18	
	11188 Feb 26 01:08	0°♈			11190 Sep 05 21:00	30°♏	
morning set	11188 Mar 04 09:18	9°♈05'02		min. Earth dist.	11190 Sep 08 20:36	28°♏11'28	0.27652 AU
desc. node	11188 Mar 15 02:04	22°♈21'16		inferior conj	11190 Sep 09 13:08	27°♏46'01	-2°24'41
	11188 Mar 21 05:44	0°♏		minimum elong	11190 Sep 09 07:45	27°♏54'19	2°23'07
max. Earth dist.	11188 Apr 09 15:52	24°♏12'11	1.71861 AU	morning rise	11190 Sep 15 10:46	24°♏17'14	

direct	11190 Sep 30 12:35	19° $\mathbb{M}$ 54'08			11193 Mar 30 04:39	0° $\mathcal{B}$	
greatest brilliancy	11190 Oct 10 02:27	21° $\mathbb{M}$ 35'08	-4.8m		11193 Apr 23 07:42	0° $\mathbb{I}$	
	11190 Oct 25 20:09	0° $\mathcal{L}$			11193 May 17 11:41	0° $\mathcal{G}$	
morning max el	11190 Nov 18 11:57	20° $\mathcal{L}$ 02'56	45°49'07	asc. node	11193 Jun 07 09:37	25° $\mathcal{G}$ 48'02	
	11190 Nov 28 12:53	0° $\mathbb{M}$			11193 Jun 10 19:46	0° $\mathcal{Q}$	
asc. node	11190 Dec 21 22:06	25° $\mathbb{M}$ 01'31			11193 Jul 05 12:29	0° $\mathbb{M}$	
	11190 Dec 26 09:02	0° $\mathcal{X}$			11193 Jul 30 21:37	0° $\mathcal{L}$	
	11191 Jan 21 10:43	0° $\mathcal{Z}$			11193 Aug 26 17:27	0° $\mathbb{M}$	
	11191 Feb 15 15:32	0° $\approx$		evening max el	11193 Sep 09 08:18	14° $\mathbb{M}$ 01'25	46°12'50
	11191 Mar 12 08:24	0° $\mathcal{H}$			11193 Sep 26 22:44	0° $\mathcal{X}$	
	11191 Apr 05 17:35	0° $\mathcal{Y}$		desc. node	11193 Sep 27 08:30	0° $\mathcal{X}$ 19'41	
desc. node	11191 Apr 12 15:31	8° $\mathcal{Y}$ 33'55		greatest brilliancy	11193 Oct 18 09:37	13° $\mathcal{X}$ 16'02	-4.8m
	11191 Apr 29 21:08	0° $\mathcal{B}$		retrograde	11193 Oct 28 22:05	15° $\mathcal{X}$ 17'23	
morning set	11191 May 18 17:52	23° $\mathcal{B}$ 35'13		evening set	11193 Nov 16 04:09	9° $\mathcal{X}$ 03'08	
	11191 May 23 20:40	0° $\mathbb{I}$		inferior conj	11193 Nov 19 11:20	6° $\mathcal{X}$ 59'58	-8°41'46
	11191 Jun 16 18:03	0° $\mathcal{G}$		minimum elong	11193 Nov 19 09:32	7° $\mathcal{X}$ 02'48	8°41'08
				min. Earth dist.	11193 Nov 19 04:43	7° $\mathcal{X}$ 10'23	0.28999 AU
superior conj	11191 Jun 27 23:18	14° $\mathcal{G}$ 05'31	-1°14'27	morning rise	11193 Nov 22 14:59	5° $\mathcal{X}$ 02'13	
minimum elong	11191 Jun 28 09:58	14° $\mathcal{G}$ 39'00	1°14'49		11193 Dec 03 01:42	30° $\mathcal{R}$ $\mathbb{M}$	
max. Earth dist.	11191 Jun 29 03:18	15° $\mathcal{G}$ 33'26	1.71366 AU	direct	11193 Dec 10 21:24	28° $\mathbb{M}$ 47'14	
	11191 Jul 10 15:25	0° $\mathcal{Q}$			11193 Dec 19 00:31	0° $\mathcal{X}$	
asc. node	11191 Aug 03 08:28	29° $\mathcal{Q}$ 41'08		greatest brilliancy	11193 Dec 21 01:59	0° $\mathcal{X}$ 39'44	-4.7m
	11191 Aug 03 14:30	0° $\mathbb{M}$		asc. node	11194 Jan 18 09:20	19° $\mathcal{X}$ 23'40	
evening rise	11191 Aug 07 02:50	4° $\mathbb{M}$ 23'17		morning max el	11194 Jan 28 21:18	29° $\mathcal{X}$ 08'24	45°47'48
	11191 Aug 27 16:32	0° $\mathcal{L}$			11194 Jan 29 18:28	0° $\mathcal{Z}$	
	11191 Sep 20 22:42	0° $\mathbb{M}$			11194 Feb 27 04:08	0° $\approx$	
	11191 Oct 15 11:03	0° $\mathcal{X}$			11194 Mar 25 06:47	0° $\mathcal{H}$	
	11191 Nov 09 08:48	0° $\mathcal{Z}$			11194 Apr 19 09:32	0° $\mathcal{Y}$	
desc. node	11191 Nov 23 03:22	16° $\mathcal{Z}$ 18'40		desc. node	11194 May 10 04:55	25° $\mathcal{Y}$ 22'53	
	11191 Dec 04 20:36	0° $\approx$			11194 May 13 23:05	0° $\mathcal{B}$	
	11191 Dec 31 06:20	0° $\mathcal{H}$			11194 Jun 07 04:41	0° $\mathbb{I}$	
	11192 Jan 28 12:11	0° $\mathcal{Y}$			11194 Jul 01 05:58	0° $\mathcal{G}$	
evening max el	11192 Feb 02 07:33	4° $\mathcal{Y}$ 44'49	46°06'27		11194 Jul 25 05:49	0° $\mathcal{Q}$	
	11192 Mar 04 09:49	0° $\mathcal{B}$		morning set	11194 Aug 01 15:01	9° $\mathcal{Q}$ 13'51	
greatest brilliancy	11192 Mar 12 20:21	3° $\mathcal{B}$ 57'06	-4.8m		11194 Aug 18 06:13	0° $\mathbb{M}$	
asc. node	11192 Mar 15 04:02	4° $\mathcal{B}$ 40'48		asc. node	11194 Aug 30 21:42	15° $\mathbb{M}$ 45'56	
retrograde	11192 Mar 22 17:06	5° $\mathcal{B}$ 45'11					
evening set	11192 Apr 07 05:51	1° $\mathcal{B}$ 03'02		superior conj	11194 Sep 09 15:00	27° $\mathbb{M}$ 52'07	0°23'22
	11192 Apr 09 01:22	30° $\mathcal{R}$ $\mathcal{Y}$		minimum elong	11194 Sep 09 09:41	27° $\mathbb{M}$ 35'37	0°23'01
inferior conj	11192 Apr 12 12:11	27° $\mathcal{Y}$ 53'15	6°31'34		11194 Sep 11 08:07	0° $\mathcal{L}$	
minimum elong	11192 Apr 12 01:12	28° $\mathcal{Y}$ 10'19	6°28'49	max. Earth dist.	11194 Sep 12 01:33	0° $\mathcal{L}$ 54'11	1.72298 AU
min. Earth dist.	11192 Apr 12 11:17	27° $\mathcal{Y}$ 54'39	0.27456 AU		11194 Oct 05 11:59	0° $\mathbb{M}$	
morning rise	11192 Apr 16 20:23	25° $\mathcal{Y}$ 14'45		evening rise	11194 Oct 17 05:28	14° $\mathbb{M}$ 30'59	
direct	11192 May 03 09:35	19° $\mathcal{Y}$ 56'10			11194 Oct 29 18:29	0° $\mathcal{X}$	
greatest brilliancy	11192 May 13 08:50	21° $\mathcal{Y}$ 48'26	-4.9m		11194 Nov 23 04:51	0° $\mathcal{Z}$	
	11192 May 28 03:09	0° $\mathcal{B}$			11194 Dec 17 20:25	0° $\approx$	
morning max el	11192 Jun 22 20:55	22° $\mathcal{B}$ 44'46	46°58'42	desc. node	11194 Dec 20 15:03	3° $\approx$ 21'38	
	11192 Jun 29 22:09	0° $\mathbb{I}$			11195 Jan 11 18:08	0° $\mathcal{H}$	
desc. node	11192 Jul 05 03:20	5° $\mathbb{I}$ 32'22			11195 Feb 05 23:12	0° $\mathcal{Y}$	
	11192 Jul 27 02:00	0° $\mathcal{G}$			11195 Mar 03 15:41	0° $\mathcal{B}$	
	11192 Aug 21 18:10	0° $\mathcal{Q}$			11195 Mar 30 09:15	0° $\mathbb{I}$	
	11192 Sep 15 20:21	0° $\mathbb{M}$		asc. node	11195 Apr 12 14:01	13° $\mathbb{I}$ 54'57	
	11192 Oct 10 15:55	0° $\mathcal{L}$		evening max el	11195 Apr 15 21:56	17° $\mathbb{I}$ 16'41	46°43'01
asc. node	11192 Oct 25 22:50	18° $\mathcal{L}$ 35'41			11195 Apr 29 08:34	0° $\mathcal{G}$	
	11192 Nov 04 07:14	0° $\mathbb{M}$		greatest brilliancy	11195 May 26 14:12	18° $\mathcal{G}$ 02'26	-4.9m
	11192 Nov 28 19:07	0° $\mathcal{X}$		retrograde	11195 Jun 05 04:39	19° $\mathcal{G}$ 47'29	
morning set	11192 Dec 22 10:53	29° $\mathcal{X}$ 05'56		evening set	11195 Jun 22 11:57	14° $\mathcal{G}$ 02'55	
	11192 Dec 23 04:26	0° $\mathcal{Z}$		inferior conj	11195 Jun 25 20:58	12° $\mathcal{G}$ 00'25	8°04'28
	11193 Jan 16 12:13	0° $\approx$		minimum elong	11195 Jun 26 06:39	11° $\mathcal{G}$ 45'34	8°02'17
max. Earth dist.	11193 Jan 27 00:23	12° $\approx$ 58'31	1.72982 AU	min. Earth dist.	11195 Jun 26 05:34	11° $\mathcal{G}$ 47'13	0.27113 AU
				morning rise	11195 Jun 30 01:16	9° $\mathcal{G}$ 29'25	
superior conj	11193 Jan 28 10:21	14° $\approx$ 43'25	0°40'00	direct	11195 Jul 16 13:05	4° $\mathcal{G}$ 11'44	
minimum elong	11193 Jan 28 18:32	15° $\approx$ 08'41	0°40'09	greatest brilliancy	11195 Jul 26 13:16	6° $\mathcal{G}$ 04'15	-4.9m
	11193 Feb 09 19:00	0° $\mathcal{H}$		desc. node	11195 Aug 02 14:07	9° $\mathcal{G}$ 17'34	
desc. node	11193 Feb 14 14:29	5° $\mathcal{H}$ 57'06			11195 Aug 29 04:03	0° $\mathcal{Q}$	
	11193 Mar 06 00:35	0° $\mathcal{Y}$		morning max el	11195 Sep 04 15:42	6° $\mathcal{Q}$ 15'18	46°32'46
evening rise	11193 Mar 07 18:20	2° $\mathcal{Y}$ 09'22			11195 Sep 27 08:27	0° $\mathbb{M}$	

	11195 Oct 24 01:13	0°♌			11198 Jun 26 21:20	0°♍	
	11195 Nov 18 18:17	0°♍		evening max el	11198 Jun 27 19:34	0°♍55'59	46°47'48
asc. node	11195 Nov 23 11:52	5°♍36'13			11198 Aug 03 07:18	0°♌	
	11195 Dec 13 21:42	0°♍		greatest brilliancy	11198 Aug 06 04:16	1°♌13'49	-4.9m
	11196 Jan 07 15:59	0°♎		retrograde	11198 Aug 17 02:46	3°♌26'37	
	11196 Feb 01 04:06	0°♎		desc. node	11198 Aug 30 00:21	0°♌06'55	
	11196 Feb 25 12:02	0°♏			11198 Aug 30 05:54	30°♏♍	
morning set	11196 Mar 02 00:05	6°♏48'25		evening set	11198 Aug 31 19:14	29°♍11'17	
desc. node	11196 Mar 14 03:51	21°♏52'57		min. Earth dist.	11198 Sep 06 11:22	25°♍50'42	0.27600 AU
	11196 Mar 20 16:38	0°♐		inferior conj	11198 Sep 07 03:07	25°♍26'28	-2°02'43
max. Earth dist.	11196 Apr 07 05:57	21°♐52'09	1.71904 AU	minimum elong	11198 Sep 06 22:29	25°♍33'35	2°01'24
				morning rise	11198 Sep 13 02:33	21°♍55'10	
superior conj	11196 Apr 10 10:23	25°♐50'44	-1°00'14	direct	11198 Sep 28 02:32	17°♍35'29	
minimum elong	11196 Apr 09 23:00	25°♐15'12	1°00'02	greatest brilliancy	11198 Oct 07 16:01	19°♍16'10	-4.8m
	11196 Apr 13 18:11	0°♑			11198 Oct 26 14:12	0°♌	
	11196 May 07 17:17	0°♒		morning max el	11198 Nov 16 01:41	17°♌45'25	45°49'58
evening rise	11196 May 20 05:40	15°♒41'52			11198 Nov 28 08:12	0°♍	
	11196 May 31 15:24	0°♓		asc. node	11198 Dec 21 00:05	24°♍24'37	
	11196 Jun 24 14:39	0°♑			11198 Dec 25 23:47	0°♍	
asc. node	11196 Jul 04 21:36	12°♑49'46			11199 Jan 20 23:36	0°♎	
	11196 Jul 18 17:18	0°♍			11199 Feb 15 03:30	0°♎	
	11196 Aug 12 01:51	0°♌			11199 Mar 11 19:52	0°♏	
	11196 Sep 05 19:54	0°♍			11199 Apr 05 04:45	0°♐	
desc. node	11196 Oct 01 06:24	0°♍		desc. node	11199 Apr 11 17:30	8°♐05'34	
	11196 Oct 24 18:37	26°♍29'25			11199 Apr 29 08:09	0°♑	
	11196 Oct 28 00:16	0°♎		morning set	11199 May 16 05:11	21°♑06'02	
evening max el	11196 Nov 19 09:28	22°♎57'41	45°49'24		11199 May 23 07:36	0°♒	
	11196 Nov 26 23:17	0°♎			11199 Jun 16 04:58	0°♓	
greatest brilliancy	11196 Dec 28 11:11	21°♎09'35	-4.7m				
retrograde	11197 Jan 07 05:29	22°♎53'19		superior conj	11199 Jun 25 11:05	11°♓37'32	-1°16'26
evening set	11197 Jan 23 00:21	18°♎04'29		minimum elong	11199 Jun 25 21:15	12°♓09'26	1°16'50
inferior conj	11197 Jan 28 11:05	14°♎46'55	-4°07'36	max. Earth dist.	11199 Jun 26 10:31	12°♓51'05	1.71354 AU
minimum elong	11197 Jan 28 19:26	14°♎33'52	4°04'49		11199 Jul 10 02:21	0°♑	
min. Earth dist.	11197 Jan 29 02:06	14°♎23'28	0.28426 AU	asc. node	11199 Aug 02 10:17	29°♑12'32	
morning rise	11197 Feb 03 14:07	11°♎06'00			11199 Aug 03 01:29	0°♍	
asc. node	11197 Feb 14 19:46	6°♎53'40		evening rise	11199 Aug 04 15:34	1°♍58'55	
direct	11197 Feb 18 18:41	6°♎34'35			11199 Aug 27 03:34	0°♌	
greatest brilliancy	11197 Mar 01 18:39	8°♎49'08	-4.8m		11199 Sep 20 09:54	0°♍	
	11197 Mar 31 20:09	0°♏			11199 Oct 14 22:35	0°♍	
morning max el	11197 Apr 09 18:18	8°♏34'32	46°28'08		11199 Nov 08 20:58	0°♎	
	11197 Apr 30 01:56	0°♐		desc. node	11199 Nov 22 05:27	15°♎47'33	
	11197 May 26 08:32	0°♑			11199 Dec 04 09:55	0°♎	
desc. node	11197 Jun 06 17:37	13°♑28'05			11199 Dec 30 21:59	0°♏	
	11197 Jun 20 11:52	0°♒			11200 Jan 28 09:50	0°♐	
	11197 Jul 15 02:14	0°♓		evening max el	11200 Jan 30 21:00	2°♐24'53	46°05'17
	11197 Aug 08 10:49	0°♑			11200 Mar 06 11:46	0°♑	
	11197 Sep 01 17:30	0°♍		greatest brilliancy	11200 Mar 10 10:23	1°♑36'36	-4.8m
	11197 Sep 25 23:55	0°♌		asc. node	11200 Mar 14 06:02	2°♑42'47	
asc. node	11197 Sep 27 11:16	1°♌49'17		retrograde	11200 Mar 20 06:06	3°♑24'09	
morning set	11197 Oct 12 03:45	19°♌58'42			11200 Apr 02 08:41	30°♏♐	
	11197 Oct 20 06:19	0°♍		evening set	11200 Apr 04 16:18	28°♐46'26	
	11197 Nov 13 12:50	0°♍		inferior conj	11200 Apr 10 02:00	25°♐32'10	6°14'44
				minimum elong	11200 Apr 09 15:05	25°♐49'06	6°11'56
superior conj	11197 Nov 18 07:46	5°♍54'59	1°25'36	min. Earth dist.	11200 Apr 10 01:43	25°♐32'37	0.27469 AU
minimum elong	11197 Nov 18 05:36	5°♍48'15	1°26'10	morning rise	11200 Apr 14 13:37	22°♐48'32	
max. Earth dist.	11197 Nov 19 12:42	7°♍24'18	1.73128 AU	direct	11200 Apr 30 22:59	17°♐34'34	
	11197 Dec 07 20:05	0°♎		greatest brilliancy	11200 May 11 00:17	19°♐28'17	-4.9m
evening rise	11197 Dec 25 04:55	21°♎23'34			11200 May 28 21:33	0°♑	
	11198 Jan 01 04:52	0°♎		morning max el	11200 Jun 20 09:42	20°♑19'44	46°58'37
desc. node	11198 Jan 17 03:19	19°♎34'03			11200 Jun 29 17:54	0°♒	
	11198 Jan 25 15:25	0°♏		desc. node	11200 Jul 04 05:19	4°♒47'39	
	11198 Feb 19 03:18	0°♐			11200 Jul 26 17:15	0°♓	
	11198 Mar 15 16:23	0°♑			11200 Aug 21 07:31	0°♑	
	11198 Apr 09 08:24	0°♒			11200 Sep 15 08:39	0°♍	
	11198 May 04 08:25	0°♓			11200 Oct 10 03:33	0°♌	
asc. node	11198 May 10 00:25	6°♓41'51		asc. node	11200 Oct 25 00:51	18°♌07'16	
	11198 May 30 03:18	0°♑			11200 Nov 03 18:25	0°♍	

	11200 Nov 28 05:59	0°♊		retrograde	11203 Jun 02 18:07	17°♊22'49	
morning set	11200 Dec 20 03:50	26°♊57'14		evening set	11203 Jun 20 04:15	11°♊32'48	
	11200 Dec 22 15:09	0°♋		inferior conj	11203 Jun 23 09:45	9°♊35'30	8°15'51
	11201 Jan 15 22:54	0°♌		minimum elong	11203 Jun 23 18:56	9°♊21'27	8°13'51
max. Earth dist.	11201 Jan 24 17:59	10°♌51'39	1.73009 AU	min. Earth dist.	11203 Jun 23 17:58	9°♊22'54	0.27121 AU
				morning rise	11203 Jun 27 09:34	7°♊11'15	
superior conj	11201 Jan 26 02:12	12°♌31'10	0°43'00	direct	11203 Jul 14 02:27	1°♊46'41	
minimum elong	11201 Jan 26 10:48	12°♌57'42	0°43'10	greatest brilliancy	11203 Jul 24 01:20	3°♊38'45	-4.9m
	11201 Feb 09 05:44	0°♍		desc. node	11203 Aug 01 15:59	7°♊45'44	
desc. node	11201 Feb 13 16:17	5°♍29'26			11203 Aug 29 05:10	0°♎	
evening rise	11201 Mar 05 09:01	29°♍52'34		morning max el	11203 Sep 02 06:29	3°♎57'12	46°34'24
	11201 Mar 05 11:25	0°♏			11203 Sep 27 01:01	0°♏	
	11201 Mar 29 15:38	0°♐			11203 Oct 23 14:50	0°♐	
	11201 Apr 22 18:55	0°♑			11203 Nov 18 06:29	0°♑	
asc. node	11201 May 16 23:11	0°♒		asc. node	11203 Nov 22 13:47	5°♑06'15	
	11201 Jun 06 11:36	25°♒17'42			11203 Dec 13 09:08	0°♊	
	11201 Jun 10 07:44	0°♎			11204 Jan 07 02:57	0°♋	
	11201 Jul 05 01:15	0°♏			11204 Jan 31 14:50	0°♌	
	11201 Jul 30 11:57	0°♐			11204 Feb 24 22:38	0°♍	
	11201 Aug 26 11:33	0°♑		morning set	11204 Feb 28 14:44	4°♍32'26	
evening max el	11201 Sep 06 22:37	11°♑44'36	46°14'02	desc. node	11204 Mar 13 05:48	21°♍26'06	
desc. node	11201 Sep 26 10:32	29°♑15'38			11204 Mar 20 03:13	0°♏	
	11201 Sep 27 09:21	0°♊		max. Earth dist.	11204 Apr 04 18:46	19°♏29'17	1.71943 AU
greatest brilliancy	11201 Oct 16 00:23	11°♊03'33	-4.8m				
retrograde	11201 Oct 26 14:03	13°♊06'33		superior conj	11204 Apr 07 22:53	23°♏26'48	-0°57'25
evening set	11201 Nov 13 18:20	6°♊54'38		minimum elong	11204 Apr 07 11:40	22°♏51'47	0°57'11
inferior conj	11201 Nov 17 03:16	4°♊49'04	-8°39'40		11204 Apr 13 04:48	0°♐	
minimum elong	11201 Nov 17 00:41	4°♊53'08	8°38'59		11204 May 07 03:59	0°♑	
min. Earth dist.	11201 Nov 16 19:38	5°♊01'05	0.28983 AU	evening rise	11204 May 17 17:02	13°♑13'22	
morning rise	11201 Nov 20 07:07	2°♊51'14			11204 May 31 02:11	0°♒	
	11201 Nov 25 09:26	30°♒			11204 Jun 24 01:34	0°♎	
direct	11201 Dec 08 12:41	26°♒36'35		asc. node	11204 Jul 03 23:25	12°♎21'12	
greatest brilliancy	11201 Dec 18 17:18	28°♒29'03	-4.7m		11204 Jul 18 04:26	0°♏	
	11201 Dec 22 11:01	0°♊			11204 Aug 11 13:18	0°♐	
asc. node	11202 Jan 17 11:13	18°♊28'06			11204 Sep 05 07:59	0°♑	
morning max el	11202 Jan 26 12:34	26°♊55'30	45°47'03		11204 Sep 30 19:45	0°♊	
	11202 Jan 29 15:40	0°♋		desc. node	11204 Oct 23 20:40	25°♊52'10	
	11202 Feb 26 19:24	0°♌			11204 Oct 27 16:33	0°♋	
	11202 Mar 24 19:54	0°♍		evening max el	11204 Nov 17 01:22	20°♋48'00	45°49'26
	11202 Apr 18 21:38	0°♏			11204 Nov 27 01:48	0°♌	
desc. node	11202 May 09 06:50	24°♏53'05		greatest brilliancy	11204 Dec 26 02:08	18°♌57'59	-4.7m
	11202 May 13 10:37	0°♐		retrograde	11205 Jan 04 20:33	20°♌41'25	
	11202 Jun 06 15:53	0°♑		evening set	11205 Jan 20 18:18	15°♌49'02	
	11202 Jun 30 16:55	0°♒		inferior conj	11205 Jan 26 02:34	12°♌34'31	-4°25'59
	11202 Jul 24 16:35	0°♎		minimum elong	11205 Jan 26 11:21	12°♌20'46	4°23'06
morning set	11202 Jul 30 04:31	6°♎52'28		min. Earth dist.	11205 Jan 26 17:29	12°♌11'10	0.28470 AU
	11202 Aug 17 16:50	0°♏		morning rise	11205 Feb 01 04:02	8°♌55'30	
asc. node	11202 Aug 29 23:34	15°♏18'49		asc. node	11205 Feb 13 21:47	4°♌29'50	
				direct	11205 Feb 16 10:58	4°♌21'59	
superior conj	11202 Sep 07 05:48	25°♏36'00	0°19'56	greatest brilliancy	11205 Feb 27 10:03	6°♌35'36	-4.8m
minimum elong	11202 Sep 07 01:13	25°♏21'44	0°19'35		11205 Mar 31 21:18	0°♍	
max. Earth dist.	11202 Sep 09 15:56	28°♏36'53	1.72264 AU	morning max el	11205 Apr 07 09:12	6°♍18'24	46°26'26
	11202 Sep 10 18:40	0°♐			11205 Apr 29 18:24	0°♏	
	11202 Oct 04 22:32	0°♑			11205 May 25 22:16	0°♐	
evening rise	11202 Oct 14 22:07	12°♑21'25		desc. node	11205 Jun 05 19:32	12°♐54'52	
	11202 Oct 29 05:08	0°♊			11205 Jun 20 00:19	0°♑	
	11202 Nov 22 15:41	0°♋			11205 Jul 14 13:57	0°♒	
	11202 Dec 17 07:36	0°♌			11205 Aug 07 22:03	0°♎	
desc. node	11202 Dec 19 16:53	2°♌53'10			11205 Sep 01 04:24	0°♏	
	11203 Jan 11 05:56	0°♍		asc. node	11205 Sep 25 10:33	0°♐	
	11203 Feb 05 11:59	0°♏		morning set	11205 Sep 26 13:16	1°♐22'39	
	11203 Mar 03 06:11	0°♐			11205 Oct 09 19:51	17°♐47'42	
	11203 Mar 30 03:28	0°♑			11205 Oct 19 16:44	0°♑	
asc. node	11203 Apr 11 16:06	13°♑05'11			11205 Nov 12 23:09	0°♊	
evening max el	11203 Apr 13 11:46	14°♑54'50	46°42'07				
	11203 Apr 29 16:11	0°♒		superior conj	11205 Nov 16 01:12	3°♊48'43	1°25'11
greatest brilliancy	11203 May 24 02:46	15°♒37'07	-4.9m	minimum elong	11205 Nov 15 22:18	3°♊39'44	1°25'44

max. Earth dist.	11205 Nov 17 08:37	5°♌25'43	1.73110 AU	direct	11208 Apr 28 12:38	15°♏13'27	
	11205 Dec 07 06:26	0°♊		greatest brilliancy	11208 May 08 15:54	17°♏08'53	-4.9m
evening rise	11205 Dec 22 21:42	19°♊15'24			11208 May 29 11:06	0°♋	
	11205 Dec 31 15:22	0°♌		morning max el	11208 Jun 17 23:22	17°♋57'15	46°58'30
desc. node	11206 Jan 16 05:11	19°♌07'11			11208 Jun 29 13:01	0°♎	
	11206 Jan 25 02:10	0°♋		desc. node	11208 Jul 03 07:13	4°♎03'32	
	11206 Feb 18 14:23	0°♏			11208 Jul 26 08:11	0°♌	
	11206 Mar 15 03:57	0°♋			11208 Aug 20 20:37	0°♎	
	11206 Apr 08 20:41	0°♎			11208 Sep 14 20:42	0°♏	
	11206 May 03 21:54	0°♌			11208 Oct 09 14:56	0°♋	
asc. node	11206 May 09 02:22	6°♌06'54		asc. node	11208 Oct 24 02:40	17°♋38'58	
	11206 May 29 19:09	0°♎			11208 Nov 03 05:21	0°♌	
evening max el	11206 Jun 25 09:48	28°♎35'39	46°48'23		11208 Nov 27 16:39	0°♌	
	11206 Jun 26 19:33	0°♏		morning set	11208 Dec 17 21:09	24°♌50'17	
greatest brilliancy	11206 Aug 03 20:22	28°♏56'23	-4.9m		11208 Dec 22 01:40	0°♊	
	11206 Aug 07 00:20	0°♋			11209 Jan 15 09:22	0°♌	
retrograde	11206 Aug 14 16:52	1°♋07'21		max. Earth dist.	11209 Jan 22 14:01	8°♌53'02	1.73031 AU
	11206 Aug 22 03:31	30°♋♏					
evening set	11206 Aug 29 09:13	26°♏53'12		superior conj	11209 Jan 23 18:33	10°♌21'07	0°45'54
desc. node	11206 Aug 29 02:29	27°♏02'15		minimum elong	11209 Jan 24 03:29	10°♌48'42	0°46'04
min. Earth dist.	11206 Sep 04 02:35	23°♏30'49	0.27549 AU		11209 Feb 08 16:14	0°♋	
inferior conj	11206 Sep 04 17:10	23°♏08'20	-1°40'27	desc. node	11209 Feb 12 18:16	5°♋03'02	
minimum elong	11206 Sep 04 13:20	23°♏14'13	1°39'25	evening rise	11209 Mar 03 00:11	27°♋38'02	
morning rise	11206 Sep 10 18:12	19°♏34'36			11209 Mar 04 22:02	0°♏	
direct	11206 Sep 25 16:01	15°♏18'06			11209 Mar 29 02:28	0°♋	
greatest brilliancy	11206 Oct 05 06:13	16°♏59'04	-4.8m		11209 Apr 22 06:01	0°♎	
	11206 Oct 27 02:59	0°♋			11209 May 16 10:41	0°♌	
morning max el	11206 Nov 13 14:46	15°♋27'34	45°51'04	asc. node	11209 Jun 05 13:25	24°♌46'47	
	11206 Nov 28 02:25	0°♌			11209 Jun 09 19:45	0°♎	
asc. node	11206 Dec 20 01:58	23°♌49'12			11209 Jul 04 14:08	0°♏	
	11206 Dec 25 13:50	0°♌			11209 Jul 30 02:29	0°♋	
	11207 Jan 20 11:56	0°♊			11209 Aug 26 06:08	0°♌	
	11207 Feb 14 15:00	0°♌		evening max el	11209 Sep 04 13:33	9°♌29'21	46°15'29
	11207 Mar 11 06:58	0°♋		desc. node	11209 Sep 25 12:34	28°♌09'56	
	11207 Apr 04 15:38	0°♏			11209 Sep 27 23:36	0°♌	
desc. node	11207 Apr 10 19:28	7°♏38'00		greatest brilliancy	11209 Oct 13 14:45	8°♌50'47	-4.8m
	11207 Apr 28 18:55	0°♋		retrograde	11209 Oct 24 06:32	10°♌55'52	
morning set	11207 May 13 16:08	18°♋36'29		evening set	11209 Nov 11 08:12	4°♌46'40	
	11207 May 22 18:17	0°♎		inferior conj	11209 Nov 14 19:11	2°♌38'14	-8°36'50
	11207 Jun 15 15:37	0°♌		minimum elong	11209 Nov 14 15:49	2°♌43'30	8°36'07
				min. Earth dist.	11209 Nov 14 10:10	2°♌52'22	0.28960 AU
superior conj	11207 Jun 22 22:37	9°♌09'38	-1°18'16	morning rise	11209 Nov 17 23:32	0°♌39'55	
minimum elong	11207 Jun 23 08:12	9°♌39'43	1°18'43		11209 Nov 19 02:12	30°♌♏	
max. Earth dist.	11207 Jun 23 14:44	10°♌00'15	1.71342 AU	direct	11209 Dec 06 04:25	24°♌26'08	
	11207 Jul 09 13:00	0°♎		greatest brilliancy	11209 Dec 16 08:03	26°♌18'05	-4.7m
asc. node	11207 Aug 01 12:11	28°♎45'10			11209 Dec 24 08:54	0°♌	
evening rise	11207 Aug 02 04:06	29°♎34'53		asc. node	11210 Jan 16 13:13	17°♌34'17	
	11207 Aug 02 12:09	0°♏		morning max el	11210 Jan 24 04:37	24°♌45'00	45°46'27
	11207 Aug 26 14:19	0°♋			11210 Jan 29 12:00	0°♊	
	11207 Sep 19 20:49	0°♌			11210 Feb 26 10:18	0°♌	
	11207 Oct 14 09:49	0°♌			11210 Mar 24 08:48	0°♋	
	11207 Nov 08 08:50	0°♊			11210 Apr 18 09:35	0°♏	
desc. node	11207 Nov 21 07:21	15°♊16'54		desc. node	11210 May 08 08:42	24°♏23'18	
	11207 Dec 03 22:57	0°♌			11210 May 12 22:05	0°♋	
	11207 Dec 30 13:25	0°♋			11210 Jun 06 03:05	0°♎	
	11208 Jan 28 07:49	0°♏			11210 Jun 30 03:56	0°♌	
evening max el	11208 Jan 28 10:07	0°♏05'35	46°04'06		11210 Jul 24 03:27	0°♎	
greatest brilliancy	11208 Mar 07 23:55	29°♏16'33	-4.8m	morning set	11210 Jul 27 17:30	4°♎29'01	
	11208 Mar 10 07:13	0°♋			11210 Aug 17 03:36	0°♏	
asc. node	11208 Mar 13 08:06	0°♋40'57		asc. node	11210 Aug 29 01:33	14°♏51'31	
retrograde	11208 Mar 17 19:22	1°♋04'15					
	11208 Mar 25 02:01	30°♋♏		superior conj	11210 Sep 04 20:00	23°♏17'30	0°16'24
evening set	11208 Apr 02 02:55	26°♏30'13		minimum elong	11210 Sep 04 16:12	23°♏05'39	0°16'04
inferior conj	11208 Apr 07 15:50	23°♏11'48	5°57'04	behind sun begin	11210 Sep 04 15:08	23°♏02'20	
minimum elong	11208 Apr 07 05:04	23°♏28'30	5°54'15	behind sun end	11210 Sep 04 17:16	23°♏08'58	
min. Earth dist.	11208 Apr 07 16:03	23°♏11'28	0.27491 AU	max. Earth dist.	11210 Sep 07 07:16	26°♏21'56	1.72227 AU
morning rise	11208 Apr 12 06:54	20°♏23'16			11210 Sep 10 05:21	0°♋	

	11210 Oct 04 09:13	0°♌		morning max el	11213 Apr 04 23:30	3°♎59'56	46°24'51
evening rise	11210 Oct 12 14:27	10°♌10'29			11213 Apr 29 10:49	0°♍	
	11210 Oct 28 15:53	0°♎			11213 May 25 12:07	0°♎	
	11210 Nov 22 02:38	0°♎		desc. node	11213 Jun 04 21:25	12°♎21'01	
	11210 Dec 16 18:55	0°♎			11213 Jun 19 12:55	0°♌	
desc. node	11210 Dec 18 18:49	2°♎24'40			11213 Jul 14 01:50	0°♎	
	11211 Jan 10 17:51	0°♎			11213 Aug 07 09:30	0°♌	
	11211 Feb 05 00:53	0°♍			11213 Aug 31 15:34	0°♎	
	11211 Mar 02 20:53	0°♎			11213 Sep 24 21:30	0°♎	
	11211 Mar 29 22:07	0°♌		asc. node	11213 Sep 25 15:04	0°♎54'20	
asc. node	11211 Apr 10 18:02	12°♌14'19		morning set	11213 Oct 07 11:39	15°♎34'32	
evening max el	11211 Apr 11 02:09	12°♌34'34	46°41'05		11213 Oct 19 03:34	0°♌	
	11211 Apr 30 02:32	0°♎			11213 Nov 12 09:54	0°♎	
greatest brilliancy	11211 May 21 15:18	13°♎12'02	-4.9m				
retrograde	11211 May 31 07:35	14°♎58'03		superior conj	11213 Nov 13 18:17	1°♎40'02	1°24'38
evening set	11211 Jun 17 20:29	9°♎03'04		minimum elong	11213 Nov 13 14:41	1°♎28'55	1°25'10
inferior conj	11211 Jun 20 22:38	7°♎10'29	8°26'07	max. Earth dist.	11213 Nov 15 01:37	3°♎16'47	1.73092 AU
minimum elong	11211 Jun 21 07:12	6°♎57'20	8°24'19		11213 Dec 06 17:12	0°♎	
min. Earth dist.	11211 Jun 21 06:17	6°♎58'45	0.27135 AU	evening rise	11213 Dec 20 14:05	17°♎04'51	
morning rise	11211 Jun 24 17:57	4°♎52'46			11213 Dec 31 02:15	0°♎	
	11211 Jul 06 02:03	30°♎		desc. node	11214 Jan 15 07:09	18°♎39'28	
direct	11211 Jul 11 16:04	29°♌21'36			11214 Jan 24 13:17	0°♎	
	11211 Jul 17 09:21	0°♎			11214 Feb 18 01:51	0°♍	
greatest brilliancy	11211 Jul 21 13:20	1°♎12'31	-4.9m		11214 Mar 14 15:55	0°♎	
desc. node	11211 Jul 31 18:07	6°♎16'57			11214 Apr 08 09:24	0°♌	
	11211 Aug 29 05:27	0°♌			11214 May 03 11:51	0°♎	
morning max el	11211 Aug 30 20:53	1°♌37'06	46°35'47	asc. node	11214 May 08 04:17	5°♎30'35	
	11211 Sep 26 17:38	0°♎			11214 May 29 11:37	0°♌	
	11211 Oct 23 04:41	0°♎		evening max el	11214 Jun 22 23:08	26°♌12'12	46°49'00
	11211 Nov 17 18:56	0°♌			11214 Jun 26 19:02	0°♎	
asc. node	11211 Nov 21 15:40	4°♌35'24		greatest brilliancy	11214 Aug 01 12:25	26°♎38'04	-4.9m
	11211 Dec 12 20:45	0°♎		retrograde	11214 Aug 12 06:46	28°♎47'31	
	11212 Jan 06 14:07	0°♎		evening set	11214 Aug 26 23:23	24°♎33'52	
	11212 Jan 31 01:44	0°♎		desc. node	11214 Aug 28 04:24	23°♎53'45	
	11212 Feb 24 09:27	0°♎		min. Earth dist.	11214 Sep 01 17:57	21°♎09'58	0.27505 AU
morning set	11212 Feb 26 05:41	2°♎16'50		inferior conj	11214 Sep 02 07:15	20°♎49'27	-1°18'07
desc. node	11212 Mar 12 07:44	20°♎58'36		minimum elong	11214 Sep 02 04:15	20°♎54'04	1°17'20
	11212 Mar 19 14:00	0°♍		morning rise	11214 Sep 08 09:45	17°♎13'33	
max. Earth dist.	11212 Apr 02 05:55	17°♍00'48	1.71979 AU	direct	11214 Sep 23 05:09	12°♎59'37	
				greatest brilliancy	11214 Oct 02 20:54	14°♎41'31	-4.8m
superior conj	11212 Apr 05 11:54	21°♍03'56	-0°54'31		11214 Oct 27 12:54	0°♎	
minimum elong	11212 Apr 05 00:55	20°♍29'43	0°54'16	morning max el	11214 Nov 11 04:04	13°♎08'52	45°52'04
	11212 Apr 12 15:36	0°♎			11214 Nov 27 20:41	0°♌	
	11212 May 06 14:50	0°♌		asc. node	11214 Dec 19 03:57	23°♌12'56	
evening rise	11212 May 15 04:52	10°♌45'49			11214 Dec 25 04:12	0°♎	
	11212 May 30 13:08	0°♎			11215 Jan 20 00:40	0°♎	
	11212 Jun 23 12:41	0°♌			11215 Feb 14 02:54	0°♎	
asc. node	11212 Jul 03 01:24	11°♌52'31			11215 Mar 10 18:26	0°♎	
	11212 Jul 17 15:49	0°♎			11215 Apr 04 02:51	0°♍	
	11212 Aug 11 01:08	0°♎		desc. node	11215 Apr 09 21:12	7°♍08'44	
	11212 Sep 04 20:32	0°♌			11215 Apr 28 05:59	0°♎	
	11212 Sep 30 09:40	0°♎		morning set	11215 May 11 03:02	16°♎05'44	
desc. node	11212 Oct 22 22:35	25°♎12'54			11215 May 22 05:18	0°♌	
	11212 Oct 27 09:40	0°♎			11215 Jun 15 02:36	0°♎	
evening max el	11212 Nov 14 16:31	18°♎35'14	45°49'39				
	11212 Nov 27 06:34	0°♎		superior conj	11215 Jun 20 10:14	6°♎40'55	-1°19'56
greatest brilliancy	11212 Dec 23 17:44	16°♎46'14	-4.7m	minimum elong	11215 Jun 20 19:11	7°♎09'02	1°20'26
retrograde	11213 Jan 02 11:19	18°♎28'52		max. Earth dist.	11215 Jun 20 18:29	7°♎06'51	1.71332 AU
evening set	11213 Jan 18 12:25	13°♎32'48			11215 Jul 08 23:58	0°♌	
inferior conj	11213 Jan 23 18:09	10°♎21'35	-4°43'45	evening rise	11215 Jul 30 16:47	27°♌10'20	
minimum elong	11213 Jan 24 03:18	10°♎07'14	4°40'51	asc. node	11215 Jul 31 14:09	28°♌17'04	
min. Earth dist.	11213 Jan 24 09:10	9°♎58'01	0.28509 AU		11215 Aug 01 23:07	0°♎	
morning rise	11213 Jan 29 17:49	6°♎44'37			11215 Aug 26 01:20	0°♎	
asc. node	11213 Feb 12 23:53	2°♎10'16			11215 Sep 19 08:01	0°♌	
direct	11213 Feb 14 02:47	2°♎08'46			11215 Oct 13 21:25	0°♎	
greatest brilliancy	11213 Feb 25 01:49	4°♎21'47	-4.8m		11215 Nov 07 21:07	0°♎	
	11213 Mar 31 21:33	0°♎		desc. node	11215 Nov 20 09:15	14°♎34'57	

	11215 Dec 03 12:32	0°♊			11218 Jun 29 15:05	0°♋		
	11215 Dec 30 05:37	0°♋			11218 Jul 23 14:26	0°♌		
evening max el	11216 Jan 25 23:56	27°♋46'48	46°03'05	morning set	11218 Jul 25 06:25	2°♌05'02		
	11216 Jan 28 07:22	0°♌			11218 Aug 16 14:28	0°♍		
greatest brilliancy	11216 Mar 05 12:58	26°♌54'48	-4.8m	asc. node	11218 Aug 28 03:20	14°♍23'17		
asc. node	11216 Mar 12 10:00	28°♌32'50						
retrograde	11216 Mar 15 09:12	28°♌43'14		superior conj	11218 Sep 02 10:10	20°♍58'24	0°12'50	
evening set	11216 Mar 30 13:44	24°♌12'30		minimum elong	11218 Sep 02 07:10	20°♍49'04	0°12'30	
inferior conj	11216 Apr 05 05:37	20°♌50'11	5°38'55	behind sun begin	11218 Sep 01 15:40	20°♍00'47		
minimum elong	11216 Apr 04 19:02	21°♌06'32	5°36'04	behind sun end	11218 Sep 02 22:40	21°♍37'20		
min. Earth dist.	11216 Apr 05 06:01	20°♌49'33	0.27511 AU	max. Earth dist.	11218 Sep 04 23:40	24°♍09'54	1.72189 AU	
morning rise	11216 Apr 10 00:02	17°♌57'05			11218 Sep 09 16:10	0°♎		
direct	11216 Apr 26 02:39	12°♌51'15			11218 Oct 03 20:01	0°♏		
greatest brilliancy	11216 May 06 06:53	14°♌47'53	-4.9m	evening rise	11218 Oct 10 06:49	7°♏59'16		
	11216 May 29 21:36	0°♏			11218 Oct 28 02:44	0°♐		
morning max el	11216 Jun 15 14:03	15°♏36'31	46°58'17		11218 Nov 21 13:40	0°♑		
	11216 Jun 29 07:56	0°♐			11218 Dec 16 06:19	0°♒		
desc. node	11216 Jul 02 09:17	3°♐19'33		desc. node	11218 Dec 17 20:51	1°♒56'20		
	11216 Jul 25 23:13	0°♑			11219 Jan 10 05:53	0°♋		
	11216 Aug 20 09:53	0°♌			11219 Feb 04 14:01	0°♌		
	11216 Sep 14 08:57	0°♍			11219 Mar 02 11:57	0°♎		
	11216 Oct 09 02:31	0°♎			11219 Mar 29 17:34	0°♏		
asc. node	11216 Oct 23 04:33	17°♎10'08		evening max el	11219 Apr 08 16:21	10°♏13'06	46°39'55	
	11216 Nov 02 16:30	0°♏		asc. node	11219 Apr 09 19:59	11°♏21'42		
	11216 Nov 27 03:34	0°♐			11219 Apr 30 16:56	0°♑		
morning set	11216 Dec 15 14:25	22°♐42'20		greatest brilliancy	11219 May 19 04:23	10°♑46'43	-4.9m	
	11216 Dec 21 12:28	0°♑		retrograde	11219 May 28 20:33	12°♑32'06		
	11217 Jan 14 20:09	0°♒		evening set	11219 Jun 15 12:26	6°♑32'48		
max. Earth dist.	11217 Jan 20 10:34	6°♒54'56	1.73055 AU	inferior conj	11219 Jun 18 11:23	4°♑44'43	8°35'34	
				minimum elong	11219 Jun 18 19:16	4°♑32'37	8°33'57	
superior conj	11217 Jan 21 10:40	8°♒09'19	0°48'44	min. Earth dist.	11219 Jun 18 18:40	4°♑33'31	0.27143 AU	
minimum elong	11217 Jan 21 19:54	8°♒37'49	0°48'56	morning rise	11219 Jun 22 02:06	2°♑33'28		
	11217 Feb 08 03:04	0°♋			11219 Jun 26 20:16	30°♒♐		
desc. node	11217 Feb 11 20:10	4°♋35'18		direct	11219 Jul 09 05:11	26°♐55'54		
evening rise	11217 Feb 28 15:02	25°♋21'28		greatest brilliancy	11219 Jul 19 01:22	28°♐45'45	-4.9m	
	11217 Mar 04 09:00	0°♌			11219 Jul 22 03:03	0°♑		
	11217 Mar 28 13:37	0°♏		desc. node	11219 Jul 30 20:04	4°♑50'31		
	11217 Apr 21 17:26	0°♐		morning max el	11219 Aug 28 10:07	29°♑13'55	46°37'12	
	11217 May 15 22:27	0°♑			11219 Aug 29 04:39	0°♌		
asc. node	11217 Jun 04 15:26	24°♑15'39			11219 Sep 26 09:56	0°♍		
	11217 Jun 09 08:04	0°♌			11219 Oct 22 18:21	0°♎		
	11217 Jul 04 03:22	0°♍			11219 Nov 17 07:15	0°♏		
	11217 Jul 29 17:29	0°♎		asc. node	11219 Nov 20 17:38	4°♏05'01		
	11217 Aug 26 01:29	0°♏			11219 Dec 12 08:17	0°♐		
evening max el	11217 Sep 02 05:30	7°♏15'56	46°16'58		11220 Jan 06 01:11	0°♑		
desc. node	11217 Sep 24 14:30	27°♏01'43			11220 Jan 30 12:33	0°♒		
	11217 Sep 28 19:08	0°♐		morning set	11220 Feb 23 20:47	0°♋01'52		
greatest brilliancy	11217 Oct 11 05:07	6°♐37'36	-4.8m		11220 Feb 23 20:11	0°♋		
retrograde	11217 Oct 21 23:16	8°♐44'35		desc. node	11220 Mar 11 09:31	20°♋30'49		
evening set	11217 Nov 08 21:51	2°♐38'44			11220 Mar 19 00:44	0°♌		
inferior conj	11217 Nov 12 11:05	0°♐26'55	-8°33'19	max. Earth dist.	11220 Mar 30 16:13	14°♌29'49	1.72024 AU	
minimum elong	11217 Nov 12 06:59	0°♐33'21	8°32'31					
min. Earth dist.	11217 Nov 12 00:27	0°♐43'34	0.28934 AU	superior conj	11220 Apr 03 00:49	18°♌41'00	-0°51'32	
	11217 Nov 13 04:18	30°♒♏		minimum elong	11220 Apr 02 14:11	18°♌07'51	0°51'15	
morning rise	11217 Nov 15 16:14	28°♏27'36			11220 Apr 12 02:24	0°♎		
direct	11217 Dec 03 20:32	22°♏15'29			11220 May 06 01:42	0°♐		
greatest brilliancy	11217 Dec 13 22:03	24°♏06'01	-4.7m	evening rise	11220 May 12 16:20	8°♐17'03		
	11217 Dec 25 15:55	0°♐			11220 May 30 00:07	0°♑		
asc. node	11218 Jan 15 15:16	16°♐41'11			11220 Jun 22 23:49	0°♌		
morning max el	11218 Jan 21 20:42	22°♐34'13	45°45'38	asc. node	11220 Jul 02 03:20	11°♌23'39		
	11218 Jan 29 07:52	0°♑			11220 Jul 17 03:12	0°♍		
	11218 Feb 26 01:15	0°♒			11220 Aug 10 12:54	0°♎		
	11218 Mar 23 21:54	0°♋			11220 Sep 04 09:00	0°♏		
	11218 Apr 17 21:46	0°♌			11220 Sep 29 23:34	0°♐		
desc. node	11218 May 07 10:40	23°♌53'10		desc. node	11220 Oct 22 00:34	24°♐33'50		
	11218 May 12 09:46	0°♎			11220 Oct 27 02:58	0°♑		
	11218 Jun 05 14:26	0°♐		evening max el	11220 Nov 12 06:56	16°♑21'13	45°49'57	



	11220 Nov 27 13:10	0°♊			11223 Jun 14 13:13	0°♋	
greatest brilliancy	11220 Dec 21 09:42	14°♊35'39	-4.7m				
retrograde	11220 Dec 31 02:03	16°♊17'33		superior conj	11223 Jun 17 21:57	4°♋13'37	-1°21'28
evening set	11221 Jan 16 06:40	11°♊17'27		minimum elong	11223 Jun 18 06:11	4°♋39'29	1°21'59
inferior conj	11221 Jan 21 09:52	8°♊09'53	-5°00'58	max. Earth dist.	11223 Jun 18 01:28	4°♋24'40	1.71332 AU
minimum elong	11221 Jan 21 19:20	7°♊55'02	4°58'02		11223 Jul 08 10:36	0°♌	
min. Earth dist.	11221 Jan 22 01:12	7°♊45'48	0.28549 AU	evening rise	11223 Jul 28 05:15	24°♌46'00	
morning rise	11221 Jan 27 07:34	4°♊35'15		asc. node	11223 Jul 30 15:57	27°♌49'23	
	11221 Feb 10 01:59	30°♋♊			11223 Aug 01 09:47	0°♍	
direct	11221 Feb 11 18:17	29°♋56'38			11223 Aug 25 12:06	0°♎	
asc. node	11221 Feb 12 01:43	29°♋56'45			11223 Sep 18 18:57	0°♏	
	11221 Feb 13 10:55	0°♋			11223 Oct 13 08:43	0°♐	
greatest brilliancy	11221 Feb 22 18:07	2°♋09'44	-4.8m		11223 Nov 07 09:06	0°♑	
	11221 Mar 31 20:23	0°♋		desc. node	11223 Nov 19 11:19	14°♑14'28	
morning max el	11221 Apr 02 13:31	1°♋41'34	46°23'12		11223 Dec 03 01:49	0°♒	
	11221 Apr 29 02:45	0°♌			11223 Dec 29 21:39	0°♓	
	11221 May 25 01:40	0°♍		evening max el	11224 Jan 23 14:51	25°♓32'15	46°02'07
desc. node	11221 Jun 03 23:25	11°♍48'01			11224 Jan 28 07:26	0°♔	
	11221 Jun 19 01:20	0°♎		greatest brilliancy	11224 Mar 03 01:59	24°♔34'52	-4.8m
	11221 Jul 13 13:36	0°♏		asc. node	11224 Mar 11 12:02	26°♔21'29	
	11221 Aug 06 20:50	0°♐		retrograde	11224 Mar 12 23:34	26°♔24'05	
	11221 Aug 31 02:34	0°♑		evening set	11224 Mar 28 01:02	21°♔56'33	
	11221 Sep 24 08:15	0°♒		inferior conj	11224 Apr 02 19:32	18°♔30'31	5°20'15
asc. node	11221 Sep 24 16:55	0°♒26'52		minimum elong	11224 Apr 02 09:16	18°♔46'24	5°17'25
morning set	11221 Oct 05 03:13	13°♒21'20		min. Earth dist.	11224 Apr 02 19:59	18°♔29'49	0.27529 AU
	11221 Oct 18 14:07	0°♓		morning rise	11224 Apr 07 17:15	15°♔32'55	
				direct	11224 Apr 23 17:14	10°♔31'13	
superior conj	11221 Nov 11 11:24	29°♓32'14	1°23'58	greatest brilliancy	11224 May 03 21:27	12°♔28'18	-4.9m
minimum elong	11221 Nov 11 07:06	29°♓18'58	1°24'27		11224 May 30 04:33	0°♕	
	11221 Nov 11 20:23	0°♔		morning max el	11224 Jun 13 05:21	13°♕19'08	46°57'58
max. Earth dist.	11221 Nov 12 17:40	1°♔05'45	1.73074 AU		11224 Jun 29 01:47	0°♖	
	11221 Dec 06 03:42	0°♕		desc. node	11224 Jul 01 11:12	2°♖37'19	
evening rise	11221 Dec 18 06:43	14°♕55'53			11224 Jul 25 13:34	0°♗	
	11221 Dec 30 12:53	0°♖			11224 Aug 19 22:39	0°♘	
desc. node	11222 Jan 14 09:01	18°♖12'17			11224 Sep 13 20:47	0°♙	
	11222 Jan 24 00:08	0°♗			11224 Oct 08 13:45	0°♚	
	11222 Feb 17 13:02	0°♘		asc. node	11224 Oct 22 06:33	16°♚42'37	
	11222 Mar 14 03:35	0°♙			11224 Nov 02 03:19	0°♛	
	11222 Apr 07 21:51	0°♚			11224 Nov 26 14:07	0°♜	
	11222 May 03 01:40	0°♛		morning set	11224 Dec 13 07:34	20°♜35'13	
asc. node	11222 May 07 06:19	4°♛55'10			11224 Dec 20 22:53	0°♝	
	11222 May 29 04:10	0°♞			11225 Jan 14 06:32	0°♞	
evening max el	11222 Jun 20 12:01	23°♞47'59	46°49'27	max. Earth dist.	11225 Jan 18 07:27	4°♞59'07	1.73074 AU
	11222 Jun 26 19:32	0°♟					
greatest brilliancy	11222 Jul 30 04:00	24°♟18'53	-4.9m	superior conj	11225 Jan 19 02:49	5°♞58'55	0°51'30
retrograde	11222 Aug 09 20:43	26°♟27'20		minimum elong	11225 Jan 19 12:17	6°♞28'09	0°51'42
evening set	11222 Aug 24 13:26	22°♟13'35			11225 Feb 07 13:30	0°♠	
desc. node	11222 Aug 27 06:20	20°♟41'46		desc. node	11225 Feb 10 21:57	4°♠08'30	
inferior conj	11222 Aug 30 21:03	18°♟30'07	-0°55'17	evening rise	11225 Feb 26 06:02	23°♠06'41	
minimum elong	11222 Aug 30 18:55	18°♟33'24	0°54'48		11225 Mar 03 19:35	0°♡	
min. Earth dist.	11222 Aug 30 09:02	18°♟48'36	0.27461 AU		11225 Mar 28 00:24	0°♢	
morning rise	11222 Sep 06 00:55	14°♟52'29			11225 Apr 21 04:29	0°♣	
direct	11222 Sep 20 17:54	10°♟40'34			11225 May 15 09:50	0°♤	
greatest brilliancy	11222 Sep 30 11:23	12°♟23'51	-4.8m	asc. node	11225 Jun 03 17:24	23°♤45'36	
	11222 Oct 27 19:51	0°♥			11225 Jun 08 19:58	0°♦	
morning max el	11222 Nov 08 17:59	10°♥52'24	45°53'18		11225 Jul 03 16:12	0°♧	
	11222 Nov 27 14:07	0°♦			11225 Jul 29 08:11	0°♨	
asc. node	11222 Dec 18 05:56	22°♦37'57			11225 Aug 25 20:58	0°♩	
	11222 Dec 24 18:02	0°♧		evening max el	11225 Aug 30 21:54	5°♩04'42	46°18'11
	11223 Jan 19 12:56	0°♨		desc. node	11225 Sep 23 16:32	25°♩52'39	
	11223 Feb 13 14:23	0°♩			11225 Sep 29 21:23	0°♪	
	11223 Mar 10 05:29	0°♪		greatest brilliancy	11225 Oct 08 19:57	4°♪25'38	-4.8m
	11223 Apr 03 13:39	0°♫		retrograde	11225 Oct 19 15:43	6°♪33'38	
desc. node	11223 Apr 08 23:11	6°♫41'29		evening set	11225 Nov 06 11:12	0°♫31'53	
	11223 Apr 27 16:39	0°♬			11225 Nov 07 08:11	30°♬♌	
morning set	11223 May 08 14:24	13°♬37'46		min. Earth dist.	11225 Nov 09 14:50	28°♬35'06	0.28903 AU
	11223 May 21 15:54	0°♭		inferior conj	11225 Nov 10 02:54	28°♬16'11	-8°29'02

minimum elong	11225 Nov 09 22:05	28° $\mathbb{M}$ 23'44	8°28'09	minimum elong	11228 Mar 31 03:37	15° $\Upsilon$ 47'04	0°48'09
morning rise	11225 Nov 13 09:09	26° $\mathbb{M}$ 15'16			11228 Apr 11 13:03	0° $\mathcal{B}$	
direct	11225 Dec 01 12:39	20° $\mathbb{M}$ 05'36			11228 May 05 12:26	0° $\mathbb{I}$	
greatest brilliancy	11225 Dec 11 11:43	21° $\mathbb{M}$ 54'10	-4.7m	evening rise	11228 May 10 04:03	5° $\mathbb{I}$ 49'38	
	11225 Dec 26 13:42	0° $\mathcal{A}$			11228 May 29 10:59	0° $\mathcal{E}$	
asc. node	11226 Jan 14 17:08	15° $\mathcal{A}$ 49'34			11228 Jun 22 10:52	0° $\mathcal{Q}$	
morning max el	11226 Jan 19 12:17	20° $\mathcal{A}$ 23'11	45°44'54	asc. node	11228 Jul 01 05:09	10° $\mathcal{Q}$ 54'44	
	11226 Jan 29 02:46	0° $\mathcal{Z}$			11228 Jul 16 14:31	0° $\mathbb{P}$	
	11226 Feb 25 15:36	0° $\approx$			11228 Aug 10 00:37	0° $\underline{\mathcal{E}}$	
	11226 Mar 23 10:29	0° $\mathcal{H}$			11228 Sep 03 21:27	0° $\mathbb{M}$	
	11226 Apr 17 09:30	0° $\Upsilon$			11228 Sep 29 13:30	0° $\mathcal{A}$	
desc. node	11226 May 06 12:33	23° $\Upsilon$ 23'59		desc. node	11228 Oct 21 02:37	23° $\mathcal{A}$ 54'49	
	11226 May 11 21:03	0° $\mathcal{B}$			11228 Oct 26 20:33	0° $\mathcal{Z}$	
	11226 Jun 05 01:26	0° $\mathbb{I}$		evening max el	11228 Nov 09 20:52	14° $\mathcal{Z}$ 06'17	45°50'14
	11226 Jun 29 01:52	0° $\mathcal{E}$			11228 Nov 27 22:15	0° $\approx$	
morning set	11226 Jul 22 19:39	29° $\mathcal{E}$ 43'08		greatest brilliancy	11228 Dec 19 01:12	12° $\approx$ 24'39	-4.7m
	11226 Jul 23 01:03	0° $\mathcal{Q}$		retrograde	11228 Dec 28 16:57	14° $\approx$ 06'31	
	11226 Aug 16 00:59	0° $\mathbb{P}$		evening set	11229 Jan 14 00:58	9° $\approx$ 01'54	
asc. node	11226 Aug 27 05:14	13° $\mathbb{P}$ 56'33		inferior conj	11229 Jan 19 01:37	5° $\approx$ 58'12	-5°17'43
				minimum elong	11229 Jan 19 11:19	5° $\approx$ 42'56	5°14'46
superior conj	11226 Aug 31 00:31	18° $\mathbb{P}$ 40'59	0°09'16	min. Earth dist.	11229 Jan 19 17:16	5° $\approx$ 33'37	0.28592 AU
minimum elong	11226 Aug 30 22:21	18° $\mathbb{P}$ 34'14	0°08'58	morning rise	11229 Jan 24 21:13	2° $\approx$ 26'20	
behind sun begin	11226 Aug 30 01:52	17° $\mathbb{P}$ 30'26			11229 Jan 29 19:01	30° $\mathcal{R}$ $\mathcal{Z}$	
behind sun end	11226 Aug 31 18:50	19° $\mathbb{P}$ 38'03		direct	11229 Feb 09 09:43	27° $\mathcal{Z}$ 44'17	
max. Earth dist.	11226 Sep 02 17:05	22° $\mathbb{P}$ 02'04	1.72150 AU	asc. node	11229 Feb 11 03:46	27° $\mathcal{Z}$ 47'53	
	11226 Sep 09 02:38	0° $\underline{\mathcal{E}}$		greatest brilliancy	11229 Feb 20 10:51	29° $\mathcal{Z}$ 58'10	-4.8m
	11226 Oct 03 06:29	0° $\mathbb{M}$			11229 Feb 20 12:45	0° $\approx$	
evening rise	11226 Oct 07 23:13	5° $\mathbb{M}$ 49'03		morning max el	11229 Mar 31 04:15	29° $\approx$ 24'52	46°21'39
	11226 Oct 27 13:18	0° $\mathcal{A}$			11229 Mar 31 18:22	0° $\mathcal{H}$	
	11226 Nov 21 00:26	0° $\mathcal{Z}$			11229 Apr 28 18:27	0° $\Upsilon$	
	11226 Dec 15 17:29	0° $\approx$			11229 May 24 15:08	0° $\mathcal{B}$	
desc. node	11226 Dec 16 22:40	1° $\approx$ 28'01		desc. node	11229 Jun 03 01:19	11° $\mathcal{B}$ 14'48	
	11227 Jan 09 17:43	0° $\mathcal{H}$			11229 Jun 18 13:42	0° $\mathbb{I}$	
	11227 Feb 04 02:58	0° $\Upsilon$			11229 Jul 13 01:21	0° $\mathcal{E}$	
	11227 Mar 02 02:56	0° $\mathcal{B}$			11229 Aug 06 08:11	0° $\mathcal{Q}$	
	11227 Mar 29 13:17	0° $\mathbb{I}$			11229 Aug 30 13:38	0° $\mathbb{P}$	
evening max el	11227 Apr 06 05:49	7° $\mathbb{I}$ 50'39	46°38'40	asc. node	11229 Sep 23 18:55	29° $\mathbb{P}$ 59'31	
asc. node	11227 Apr 08 22:04	10° $\mathbb{I}$ 29'13			11229 Sep 23 19:04	0° $\underline{\mathcal{E}}$	
	11227 May 01 11:44	0° $\mathcal{E}$		morning set	11229 Oct 02 18:48	11° $\underline{\mathcal{E}}$ 07'42	
greatest brilliancy	11227 May 16 18:03	8° $\mathcal{E}$ 22'57	-4.9m		11229 Oct 18 00:47	0° $\mathbb{M}$	
retrograde	11227 May 26 08:59	10° $\mathcal{E}$ 07'10					
evening set	11227 Jun 13 04:18	4° $\mathcal{E}$ 03'50		superior conj	11229 Nov 09 04:34	27° $\mathbb{M}$ 24'21	1°23'10
inferior conj	11227 Jun 16 00:15	2° $\mathcal{E}$ 20'04	8°44'03	minimum elong	11229 Nov 08 23:36	27° $\mathbb{M}$ 08'59	1°23'38
minimum elong	11227 Jun 16 07:22	2° $\mathcal{E}$ 09'05	8°42'37	max. Earth dist.	11229 Nov 10 10:28	28° $\mathbb{M}$ 56'43	1.73055 AU
min. Earth dist.	11227 Jun 16 07:32	2° $\mathcal{E}$ 08'50	0.27152 AU		11229 Nov 11 06:57	0° $\mathcal{A}$	
morning rise	11227 Jun 19 10:26	0° $\mathcal{E}$ 15'08			11229 Dec 05 14:18	0° $\mathcal{Z}$	
	11227 Jun 19 20:44	30° $\mathcal{R}$ $\mathbb{I}$		evening rise	11229 Dec 15 23:33	12° $\mathcal{Z}$ 47'15	
direct	11227 Jul 06 17:53	24° $\mathbb{I}$ 31'05			11229 Dec 29 23:38	0° $\approx$	
greatest brilliancy	11227 Jul 16 14:07	26° $\mathbb{I}$ 20'32	-4.9m	desc. node	11230 Jan 13 10:54	17° $\approx$ 44'46	
	11227 Jul 24 09:45	0° $\mathcal{E}$			11230 Jan 23 11:08	0° $\mathcal{H}$	
desc. node	11227 Jul 29 21:57	3° $\mathcal{E}$ 27'35			11230 Feb 17 00:25	0° $\Upsilon$	
morning max el	11227 Aug 25 22:45	26° $\mathcal{E}$ 49'50	46°38'47		11230 Mar 13 15:30	0° $\mathcal{B}$	
	11227 Aug 29 02:36	0° $\mathcal{Q}$			11230 Apr 07 10:36	0° $\mathbb{I}$	
	11227 Sep 26 01:38	0° $\mathbb{P}$			11230 May 02 15:50	0° $\mathcal{E}$	
	11227 Oct 22 07:38	0° $\underline{\mathcal{E}}$		asc. node	11230 May 06 08:16	4° $\mathcal{E}$ 18'37	
	11227 Nov 16 19:16	0° $\mathbb{M}$			11230 May 28 21:14	0° $\mathcal{Q}$	
asc. node	11227 Nov 19 19:32	3° $\mathbb{M}$ 35'11		evening max el	11230 Jun 18 01:25	21° $\mathcal{Q}$ 24'44	46°50'00
	11227 Dec 11 19:36	0° $\mathcal{A}$			11230 Jun 26 21:32	0° $\mathbb{P}$	
	11228 Jan 05 12:05	0° $\mathcal{Z}$		greatest brilliancy	11230 Jul 27 18:57	21° $\mathbb{P}$ 58'16	-4.9m
	11228 Jan 29 23:15	0° $\approx$		retrograde	11230 Aug 07 11:04	24° $\mathbb{P}$ 06'28	
morning set	11228 Feb 21 11:54	27° $\approx$ 47'25		evening set	11230 Aug 22 03:39	19° $\mathbb{P}$ 52'06	
	11228 Feb 23 06:47	0° $\mathcal{H}$		desc. node	11230 Aug 26 08:28	17° $\mathbb{P}$ 26'41	
desc. node	11228 Mar 10 11:28	20° $\mathcal{H}$ 04'02		inferior conj	11230 Aug 28 10:46	16° $\mathbb{P}$ 09'47	-0°32'09
	11228 Mar 18 11:20	0° $\Upsilon$		minimum elong	11230 Aug 28 09:31	16° $\mathbb{P}$ 11'43	0°31'59
max. Earth dist.	11228 Mar 28 03:57	12° $\Upsilon$ 03'50	1.72069 AU	min. Earth dist.	11230 Aug 27 23:49	16° $\mathbb{P}$ 26'36	0.27421 AU
				morning rise	11230 Sep 03 15:52	12° $\mathbb{P}$ 30'52	
superior conj	11228 Mar 31 13:52	16° $\Upsilon$ 19'00	-0°48'28	direct	11230 Sep 18 06:58	8° $\mathbb{P}$ 20'24	

greatest brilliancy	11230 Sep 28 01:31	10° $\cap$ 04'54	-4.8m	asc. node	11233 Jun 02 19:13	23° $\ominus$ 13'28	
	11230 Oct 28 00:58	0° $\underline{\cap}$			11233 Jun 08 08:27	0° $\Omega$	
morning max el	11230 Nov 06 08:54	8° $\underline{\cap}$ 37'30	45°54'36		11233 Jul 03 05:41	0° $\cap$	
	11230 Nov 27 07:27	0° $\cap$			11233 Jul 28 23:40	0° $\underline{\cap}$	
asc. node	11230 Dec 17 07:48	22° $\cap$ 02'11			11233 Aug 25 17:42	0° $\cap$	
	11230 Dec 24 07:58	0° $\nearrow$		evening max el	11233 Aug 28 13:49	2° $\cap$ 50'32	46°19'30
	11231 Jan 19 01:23	0° $\overline{\cap}$		desc. node	11233 Sep 22 18:32	24° $\cap$ 39'54	
	11231 Feb 13 02:05	0° $\approx$			11233 Oct 01 12:22	0° $\nearrow$	
	11231 Mar 09 16:47	0° $\times$		greatest brilliancy	11233 Oct 06 11:19	2° $\nearrow$ 12'38	-4.8m
	11231 Apr 03 00:46	0° $\Upsilon$		retrograde	11233 Oct 17 07:34	4° $\nearrow$ 20'52	
desc. node	11231 Apr 08 01:07	6° $\Upsilon$ 13'03			11233 Nov 01 05:31	30° $\cap$	
	11231 Apr 27 03:40	0° $\cap$		evening set	11233 Nov 04 00:16	28° $\cap$ 23'45	
morning set	11231 May 06 01:31	11° $\cap$ 08'03		min. Earth dist.	11233 Nov 07 05:30	26° $\cap$ 24'28	0.28870 AU
	11231 May 21 02:52	0° $\cap$		inferior conj	11233 Nov 07 18:39	26° $\cap$ 03'50	-8°23'57
	11231 Jun 14 00:10	0° $\ominus$		minimum elong	11233 Nov 07 13:08	26° $\cap$ 12'29	8°22'59
				morning rise	11233 Nov 11 02:12	24° $\cap$ 00'49	
superior conj	11231 Jun 15 09:19	1° $\ominus$ 44'09	-1°22'50	direct	11233 Nov 29 04:29	17° $\cap$ 54'05	
minimum elong	11231 Jun 15 16:44	2° $\ominus$ 07'29	1°23'23	greatest brilliancy	11233 Dec 09 01:37	19° $\cap$ 40'51	-4.7m
max. Earth dist.	11231 Jun 15 10:46	1° $\ominus$ 48'44	1.71329 AU		11233 Dec 27 06:31	0° $\nearrow$	
	11231 Jul 07 21:33	0° $\Omega$		asc. node	11234 Jan 13 19:10	14° $\nearrow$ 57'49	
evening rise	11231 Jul 25 17:27	22° $\Omega$ 19'55		morning max el	11234 Jan 17 03:01	18° $\nearrow$ 08'40	45°44'18
asc. node	11231 Jul 29 17:53	27° $\Omega$ 21'09			11234 Jan 28 21:40	0° $\overline{\cap}$	
	11231 Jul 31 20:46	0° $\cap$			11234 Feb 25 06:14	0° $\approx$	
	11231 Aug 24 23:10	0° $\underline{\cap}$			11234 Mar 22 23:25	0° $\times$	
	11231 Sep 18 06:16	0° $\cap$			11234 Apr 16 21:36	0° $\Upsilon$	
	11231 Oct 12 20:26	0° $\nearrow$		desc. node	11234 May 05 14:26	22° $\Upsilon$ 53'40	
	11231 Nov 06 21:32	0° $\overline{\cap}$			11234 May 11 08:42	0° $\cap$	
desc. node	11231 Nov 18 13:11	13° $\overline{\cap}$ 42'09			11234 Jun 04 12:49	0° $\cap$	
	11231 Dec 02 15:35	0° $\approx$			11234 Jun 28 13:04	0° $\ominus$	
	11231 Dec 29 14:22	0° $\times$		morning set	11234 Jul 20 08:28	27° $\ominus$ 18'19	
evening max el	11232 Jan 21 06:21	23° $\times$ 18'13	46°01'07		11234 Jul 22 12:08	0° $\Omega$	
	11232 Jan 28 09:13	0° $\Upsilon$			11234 Aug 15 11:58	0° $\cap$	
greatest brilliancy	11232 Feb 29 14:55	22° $\Upsilon$ 13'52	-4.8m	asc. node	11234 Aug 26 07:12	13° $\cap$ 28'35	
retrograde	11232 Mar 10 13:34	24° $\Upsilon$ 03'28					
asc. node	11232 Mar 10 14:04	24° $\Upsilon$ 03'28		superior conj	11234 Aug 28 14:24	16° $\cap$ 20'37	0°05'38
evening set	11232 Mar 25 12:30	19° $\Upsilon$ 39'07		minimum elong	11234 Aug 28 13:06	16° $\cap$ 16'33	0°05'21
inferior conj	11232 Mar 31 09:23	16° $\Upsilon$ 09'28	5°00'57	behind sun begin	11234 Aug 27 13:53	15° $\cap$ 04'10	
minimum elong	11232 Mar 30 23:29	16° $\Upsilon$ 24'47	4°58'11	behind sun end	11234 Aug 29 12:20	17° $\cap$ 28'56	
min. Earth dist.	11232 Mar 31 09:53	16° $\Upsilon$ 08'41	0.27551 AU	max. Earth dist.	11234 Aug 31 08:29	19° $\cap$ 46'27	1.72108 AU
morning rise	11232 Apr 05 10:16	13° $\Upsilon$ 07'21			11234 Sep 08 13:33	0° $\underline{\cap}$	
direct	11232 Apr 21 08:03	8° $\Upsilon$ 09'54			11234 Oct 02 17:24	0° $\cap$	
greatest brilliancy	11232 May 01 11:51	10° $\Upsilon$ 06'55	-4.9m	evening rise	11234 Oct 05 15:11	3° $\cap$ 36'05	
	11232 May 30 10:02	0° $\cap$			11234 Oct 27 00:18	0° $\nearrow$	
morning max el	11232 Jun 10 20:15	10° $\cap$ 59'10	46°57'28		11234 Nov 20 11:40	0° $\overline{\cap}$	
	11232 Jun 28 19:49	0° $\cap$			11234 Dec 15 05:09	0° $\approx$	
desc. node	11232 Jun 30 13:07	1° $\cap$ 53'54		desc. node	11234 Dec 16 00:36	0° $\approx$ 58'40	
	11232 Jul 25 04:15	0° $\ominus$			11235 Jan 09 06:05	0° $\times$	
	11232 Aug 19 11:45	0° $\Omega$			11235 Feb 03 16:28	0° $\Upsilon$	
	11232 Sep 13 08:58	0° $\cap$			11235 Mar 01 18:32	0° $\cap$	
	11232 Oct 08 01:20	0° $\underline{\cap}$			11235 Mar 29 09:59	0° $\cap$	
asc. node	11232 Oct 21 08:22	16° $\underline{\cap}$ 13'25		evening max el	11235 Apr 03 18:25	5° $\cap$ 25'11	46°37'30
	11232 Nov 01 14:32	0° $\cap$		asc. node	11235 Apr 08 00:00	9° $\cap$ 34'26	
	11232 Nov 26 01:06	0° $\nearrow$			11235 May 02 13:48	0° $\ominus$	
morning set	11232 Dec 11 00:45	18° $\nearrow$ 26'51		greatest brilliancy	11235 May 14 07:55	5° $\ominus$ 58'48	-4.9m
	11232 Dec 20 09:44	0° $\overline{\cap}$		retrograde	11235 May 23 21:16	7° $\ominus$ 41'59	
	11233 Jan 13 17:19	0° $\approx$		evening set	11235 Jun 10 19:57	1° $\ominus$ 34'50	
max. Earth dist.	11233 Jan 16 02:46	2° $\approx$ 57'15	1.73088 AU		11235 Jun 13 10:02	30° $\cap$	
				inferior conj	11235 Jun 13 13:16	29° $\cap$ 55'01	8°51'22
superior conj	11233 Jan 16 19:13	3° $\approx$ 48'01	0°54'11	minimum elong	11235 Jun 13 19:35	29° $\cap$ 45'17	8°50'07
minimum elong	11233 Jan 17 04:51	4° $\approx$ 17'44	0°54'23	min. Earth dist.	11235 Jun 13 20:43	29° $\cap$ 43'31	0.27164 AU
	11233 Feb 07 00:21	0° $\times$		morning rise	11235 Jun 16 19:11	27° $\cap$ 56'13	
desc. node	11233 Feb 09 23:57	3° $\times$ 41'09		direct	11235 Jul 04 06:24	22° $\cap$ 05'35	
evening rise	11233 Feb 23 21:13	20° $\times$ 51'17		greatest brilliancy	11235 Jul 14 03:37	23° $\cap$ 55'31	-4.9m
	11233 Mar 03 06:34	0° $\Upsilon$			11235 Jul 25 21:51	0° $\ominus$	
	11233 Mar 27 11:36	0° $\cap$		desc. node	11235 Jul 29 00:06	2° $\ominus$ 06'55	
	11233 Apr 20 15:58	0° $\cap$		morning max el	11235 Aug 23 11:28	24° $\ominus$ 24'38	46°40'12
	11233 May 14 21:43	0° $\ominus$			11235 Aug 29 00:11	0° $\Omega$	

	11235 Sep 25 17:33	0°♎			11238 May 02 06:09	0°♏	
	11235 Oct 21 21:13	0°♏		asc. node	11238 May 05 10:11	3°♏41'46	
	11235 Nov 16 07:36	0°♎			11238 May 28 14:37	0°♏	
asc. node	11235 Nov 18 21:26	3°♎04'20		evening max el	11238 Jun 15 16:03	19°♏04'56	46°50'39
	11235 Dec 11 07:12	0°♏			11238 Jun 27 00:52	0°♎	
	11236 Jan 04 23:16	0°♏		greatest brilliancy	11238 Jul 25 09:36	19°♎38'13	-4.9m
	11236 Jan 29 10:14	0°♏		retrograde	11238 Aug 05 01:59	21°♎46'35	
morning set	11236 Feb 19 03:02	25°♏32'03		evening set	11238 Aug 19 18:17	17°♎31'29	
	11236 Feb 22 17:41	0°♏		desc. node	11238 Aug 25 10:23	14°♎12'16	
desc. node	11236 Mar 09 13:23	19°♏36'11		min. Earth dist.	11238 Aug 25 14:24	14°♎06'06	0.27382 AU
	11236 Mar 17 22:14	0°♎		inferior conj	11238 Aug 26 00:39	13°♎50'24	-0°09'09
max. Earth dist.	11236 Mar 25 17:14	9°♎41'48	1.72111 AU	minimum elong	11238 Aug 26 00:17	13°♎50'58	0°09'17
				transit middle	11238 Aug 26 00:17	13°♎50'58	0°09'17
superior conj	11236 Mar 29 03:04	13°♎56'38	-0°45'18	transit begin	11238 Aug 25 20:54	13°♎56'08	
minimum elong	11236 Mar 28 17:15	13°♎26'06	0°44'59	transit end	11238 Aug 26 03:39	13°♎45'48	
	11236 Apr 10 23:58	0°♏		morning rise	11238 Sep 01 06:48	10°♎10'35	
	11236 May 04 23:24	0°♎		direct	11238 Sep 15 20:44	6°♎01'26	
evening rise	11236 May 07 16:09	3°♎22'47		greatest brilliancy	11238 Sep 25 15:13	7°♎46'25	-4.8m
	11236 May 28 22:02	0°♏			11238 Oct 28 03:57	0°♏	
	11236 Jun 21 22:06	0°♏		morning max el	11238 Nov 04 00:28	6°♏24'56	45°55'42
asc. node	11236 Jun 30 07:09	10°♏25'49			11238 Nov 27 00:12	0°♎	
	11236 Jul 16 02:01	0°♎		asc. node	11238 Dec 16 09:49	21°♎27'31	
	11236 Aug 09 12:34	0°♏			11238 Dec 23 21:38	0°♏	
	11236 Sep 03 10:13	0°♎			11239 Jan 18 13:39	0°♏	
	11236 Sep 29 03:53	0°♏			11239 Feb 12 13:38	0°♏	
desc. node	11236 Oct 20 04:32	23°♏14'07			11239 Mar 09 03:56	0°♏	
	11236 Oct 26 14:54	0°♏			11239 Apr 02 11:41	0°♎	
evening max el	11236 Nov 07 11:00	11°♏51'04	45°50'42	desc. node	11239 Apr 07 02:53	5°♎44'40	
	11236 Nov 28 11:03	0°♏			11239 Apr 26 14:29	0°♏	
greatest brilliancy	11236 Dec 16 16:03	10°♏12'20	-4.7m	morning set	11239 May 03 12:42	8°♏39'06	
retrograde	11236 Dec 26 08:21	11°♏54'57			11239 May 20 13:40	0°♎	
evening set	11237 Jan 11 19:17	6°♏45'30					
inferior conj	11237 Jan 16 17:18	3°♏45'47	-5°33'52	superior conj	11239 Jun 12 20:42	29°♎15'15	-1°24'02
minimum elong	11237 Jan 17 03:14	3°♏30'13	5°30'56	minimum elong	11239 Jun 13 03:16	29°♎35'52	1°24'37
min. Earth dist.	11237 Jan 17 08:58	3°♏21'14	0.28636 AU	max. Earth dist.	11239 Jun 12 20:39	29°♎15'07	1.71325 AU
morning rise	11237 Jan 22 10:43	0°♏17'11			11239 Jun 13 10:57	0°♏	
	11237 Jan 22 22:59	30°♏♏			11239 Jul 07 08:18	0°♏	
direct	11237 Feb 07 01:19	25°♏31'13		evening rise	11239 Jul 23 05:43	19°♏54'33	
asc. node	11237 Feb 10 05:50	25°♏43'04		asc. node	11239 Jul 28 19:50	26°♏53'40	
greatest brilliancy	11237 Feb 18 03:22	27°♏45'57	-4.8m		11239 Jul 31 07:31	0°♎	
	11237 Feb 23 01:19	0°♏			11239 Aug 24 10:01	0°♏	
morning max el	11237 Mar 28 19:56	27°♏10'07	46°20'08		11239 Sep 17 17:18	0°♎	
	11237 Mar 31 15:45	0°♏			11239 Oct 12 07:52	0°♏	
	11237 Apr 28 10:03	0°♎			11239 Nov 06 09:43	0°♏	
	11237 May 24 04:36	0°♏		desc. node	11239 Nov 17 15:08	13°♏10'48	
desc. node	11237 Jun 02 03:13	10°♏41'26			11239 Dec 02 05:13	0°♏	
	11237 Jun 18 02:05	0°♎			11239 Dec 29 07:08	0°♏	
	11237 Jul 12 13:06	0°♏		evening max el	11240 Jan 18 22:03	21°♏05'28	46°00'02
	11237 Aug 05 19:31	0°♏			11240 Jan 28 12:11	0°♎	
	11237 Aug 30 00:40	0°♎		greatest brilliancy	11240 Feb 27 04:34	19°♎54'47	-4.8m
asc. node	11237 Sep 22 20:42	29°♎31'31		retrograde	11240 Mar 08 03:19	21°♎44'01	
	11237 Sep 23 05:54	0°♏		asc. node	11240 Mar 09 15:59	21°♎41'13	
morning set	11237 Sep 30 10:24	8°♏54'03		evening set	11240 Mar 23 00:24	17°♎22'50	
	11237 Oct 17 11:28	0°♎		inferior conj	11240 Mar 28 23:24	13°♎49'50	4°41'15
				minimum elong	11240 Mar 28 13:56	14°♎04'30	4°38'34
superior conj	11237 Nov 06 21:36	25°♎15'47	1°22'14	min. Earth dist.	11240 Mar 29 00:11	13°♎48'36	0.27570 AU
minimum elong	11237 Nov 06 15:59	24°♎58'26	1°22'41	morning rise	11240 Apr 03 03:16	10°♎43'14	
max. Earth dist.	11237 Nov 08 04:21	26°♎50'47	1.73039 AU	direct	11240 Apr 18 22:50	5°♎50'08	
	11237 Nov 10 17:35	0°♏		greatest brilliancy	11240 Apr 29 02:35	7°♎47'03	-4.9m
	11237 Dec 05 00:59	0°♏			11240 May 30 13:15	0°♏	
evening rise	11237 Dec 13 16:15	10°♏38'04		morning max el	11240 Jun 08 10:16	8°♏38'00	46°56'49
	11237 Dec 29 10:26	0°♏			11240 Jun 28 13:06	0°♎	
desc. node	11238 Jan 12 12:52	17°♏17'22		desc. node	11240 Jun 29 15:12	1°♎12'26	
	11238 Jan 22 22:11	0°♏			11240 Jul 24 18:27	0°♏	
	11238 Feb 16 11:50	0°♎			11240 Aug 19 00:27	0°♏	
	11238 Mar 13 03:29	0°♏			11240 Sep 12 20:45	0°♎	
	11238 Apr 06 23:27	0°♎			11240 Oct 07 12:32	0°♏	

asc. node	11240 Oct 20 10:15	15°♌45'41		evening max el	11243 Apr 01 06:38	2°♊59'50	46°36'13
	11240 Nov 01 01:20	0°♌		asc. node	11243 Apr 07 01:58	8°♊39'29	
	11240 Nov 25 11:39	0°♌			11243 May 04 02:11	0°♊	
morning set	11240 Dec 08 18:15	16°♌20'41		greatest brilliancy	11243 May 11 21:22	3°♊34'48	-4.9m
	11240 Dec 19 20:10	0°♌		retrograde	11243 May 21 09:41	5°♊17'34	
	11241 Jan 13 03:45	0°♌			11243 Jun 06 23:04	30°♋♊	
				evening set	11243 Jun 08 11:05	29°♊06'51	
superior conj	11241 Jan 14 11:53	1°♌39'09	0°56'44	inferior conj	11243 Jun 11 02:10	27°♊30'31	8°57'37
minimum elong	11241 Jan 14 21:37	2°♌09'09	0°56'58	minimum elong	11243 Jun 11 07:37	27°♊22'08	8°56'32
max. Earth dist.	11241 Jan 13 20:27	0°♌51'30	1.73106 AU	min. Earth dist.	11243 Jun 11 09:42	27°♊18'55	0.27179 AU
	11241 Feb 06 10:52	0°♌		morning rise	11243 Jun 14 04:06	25°♊37'42	
desc. node	11241 Feb 09 01:50	3°♌14'29		direct	11243 Jul 01 18:47	19°♊40'28	
evening rise	11241 Feb 21 12:24	18°♌36'59		greatest brilliancy	11243 Jul 11 17:07	21°♊31'17	-4.9m
	11241 Mar 02 17:14	0°♌			11243 Jul 26 23:02	0°♊	
	11241 Mar 26 22:29	0°♌		desc. node	11243 Jul 28 02:02	0°♊49'13	
	11241 Apr 20 03:08	0°♊		morning max el	11243 Aug 21 00:35	22°♊01'20	46°41'40
	11241 May 14 09:16	0°♊			11243 Aug 28 20:36	0°♊	
asc. node	11241 Jun 01 21:17	22°♊43'03			11243 Sep 25 08:48	0°♋	
	11241 Jun 07 20:37	0°♊			11243 Oct 21 10:18	0°♊	
	11241 Jul 02 18:56	0°♋			11243 Nov 15 19:30	0°♌	
	11241 Jul 28 15:02	0°♊		asc. node	11243 Nov 17 23:23	2°♌34'52	
	11241 Aug 25 14:44	0°♌			11243 Dec 10 18:24	0°♌	
evening max el	11241 Aug 26 05:11	0°♌35'58	46°20'50		11244 Jan 04 10:03	0°♌	
desc. node	11241 Sep 21 20:30	23°♌26'19			11244 Jan 28 20:48	0°♌	
greatest brilliancy	11241 Oct 04 03:18	0°♌01'43	-4.8m	morning set	11244 Feb 16 18:41	23°♌19'36	
	11241 Oct 04 01:29	0°♌			11244 Feb 22 04:10	0°♌	
retrograde	11241 Oct 14 23:10	2°♌09'52		desc. node	11244 Mar 08 15:11	19°♌09'18	
	11241 Oct 25 09:21	30°♋♌			11244 Mar 17 08:44	0°♌	
evening set	11241 Nov 01 13:18	26°♌17'46		max. Earth dist.	11244 Mar 23 09:35	7°♌30'30	1.72158 AU
inferior conj	11241 Nov 05 10:34	23°♌53'28	-8°18'10				
minimum elong	11241 Nov 05 04:22	24°♌03'11	8°17'05	superior conj	11244 Mar 26 16:27	11°♌36'03	-0°42'06
min. Earth dist.	11241 Nov 04 20:38	24°♌15'19	0.28831 AU	minimum elong	11244 Mar 26 07:10	11°♌07'10	0°41'45
morning rise	11241 Nov 08 19:38	21°♌48'00			11244 Apr 10 10:32	0°♌	
direct	11241 Nov 26 20:00	15°♌44'35			11244 May 04 10:04	0°♊	
greatest brilliancy	11241 Dec 06 16:12	17°♌30'07	-4.7m	evening rise	11244 May 05 04:14	0°♊56'51	
	11241 Dec 27 18:08	0°♌			11244 May 28 08:52	0°♊	
asc. node	11242 Jan 12 21:11	14°♌08'40			11244 Jun 21 09:08	0°♊	
morning max el	11242 Jan 14 17:02	15°♌54'00	45°43'42	asc. node	11244 Jun 29 09:04	9°♊57'18	
	11242 Jan 28 15:28	0°♌			11244 Jul 15 13:19	0°♋	
	11242 Feb 24 20:13	0°♌			11244 Aug 09 00:19	0°♊	
	11242 Mar 22 11:52	0°♌			11244 Sep 02 22:48	0°♌	
	11242 Apr 16 09:18	0°♌			11244 Sep 28 18:10	0°♌	
desc. node	11242 May 04 16:24	22°♌24'47		desc. node	11244 Oct 19 06:33	22°♌34'01	
	11242 May 10 19:58	0°♌			11244 Oct 26 09:26	0°♌	
	11242 Jun 03 23:48	0°♊		evening max el	11244 Nov 05 01:59	9°♌38'47	45°51'18
	11242 Jun 27 23:51	0°♊			11244 Nov 29 03:41	0°♌	
morning set	11242 Jul 17 21:01	24°♊53'57		greatest brilliancy	11244 Dec 14 06:29	8°♌00'45	-4.7m
	11242 Jul 21 22:48	0°♊		retrograde	11244 Dec 24 00:16	9°♌44'36	
	11242 Aug 14 22:33	0°♋		evening set	11245 Jan 09 13:44	4°♌30'24	
asc. node	11242 Aug 25 08:59	13°♋01'14		inferior conj	11245 Jan 14 09:04	1°♌34'38	-5°49'25
				minimum elong	11245 Jan 14 19:08	1°♌18'52	5°46'33
superior conj	11242 Aug 26 04:15	14°♋01'17	0°01'59	min. Earth dist.	11245 Jan 15 00:19	1°♌10'45	0.28674 AU
minimum elong	11242 Aug 26 03:49	13°♋59'56	0°01'42		11245 Jan 16 21:51	30°♋♌	
behind sun begin	11242 Aug 25 03:29	12°♋44'04		morning rise	11245 Jan 20 00:09	28°♌09'38	
behind sun end	11242 Aug 27 04:09	15°♋15'47		direct	11245 Feb 04 17:32	23°♌19'40	
max. Earth dist.	11242 Aug 28 21:33	17°♋24'46	1.72068 AU	asc. node	11245 Feb 09 07:40	23°♌44'07	
	11242 Sep 08 00:06	0°♊		greatest brilliancy	11245 Feb 15 19:19	25°♌34'35	-4.8m
	11242 Oct 02 03:56	0°♌			11245 Feb 24 14:23	0°♌	
evening rise	11242 Oct 03 07:12	1°♌24'26		morning max el	11245 Mar 26 12:10	24°♌58'11	46°18'34
	11242 Oct 26 10:54	0°♌			11245 Mar 31 11:53	0°♌	
	11242 Nov 19 22:28	0°♌			11245 Apr 28 01:03	0°♌	
	11242 Dec 14 16:21	0°♌			11245 May 23 17:39	0°♌	
desc. node	11242 Dec 15 02:40	0°♌31'05		desc. node	11245 Jun 01 05:14	10°♌09'24	
	11243 Jan 08 17:59	0°♌			11245 Jun 17 14:11	0°♊	
	11243 Feb 03 05:35	0°♌			11245 Jul 12 00:39	0°♊	
	11243 Mar 01 09:56	0°♌			11245 Aug 05 06:42	0°♊	
	11243 Mar 29 07:02	0°♊			11245 Aug 29 11:34	0°♋	

asc. node	11245 Sep 21 22:36	29° $\cap$ 04'22		retrograde	11248 Mar 05 16:41	19° $\Upsilon$ 24'24	
	11245 Sep 22 16:34	0° $\underline{\cap}$		asc. node	11248 Mar 08 18:02	19° $\Upsilon$ 13'13	
morning set	11245 Sep 28 01:39	6° $\underline{\cap}$ 39'45		evening set	11248 Mar 20 12:33	15° $\Upsilon$ 06'04	
	11245 Oct 16 21:59	0° $\cap$		inferior conj	11248 Mar 26 13:27	11° $\Upsilon$ 30'13	4°21'12
				minimum elong	11248 Mar 26 04:29	11° $\Upsilon$ 44'09	4°18'36
superior conj	11245 Nov 04 14:23	23° $\cap$ 06'49	1°21'11	min. Earth dist.	11248 Mar 26 14:55	11° $\Upsilon$ 27'56	0.27587 AU
minimum elong	11245 Nov 04 08:09	22° $\cap$ 47'35	1°21'35	morning rise	11248 Mar 31 20:10	8° $\Upsilon$ 19'12	
max. Earth dist.	11245 Nov 05 23:45	24° $\cap$ 49'59	1.73020 AU	direct	11248 Apr 16 13:05	3° $\Upsilon$ 30'17	
	11245 Nov 10 04:04	0° $\mathcal{A}$		greatest brilliancy	11248 Apr 26 17:49	5° $\Upsilon$ 27'38	-4.9m
	11245 Dec 04 11:31	0° $\mathcal{B}$			11248 May 30 14:56	0° $\mathcal{B}$	
evening rise	11245 Dec 11 08:56	8° $\mathcal{B}$ 29'15		morning max el	11248 Jun 05 23:14	6° $\mathcal{B}$ 14'10	46°56'18
	11245 Dec 28 21:07	0° $\approx$			11248 Jun 28 05:59	0° $\cap$	
desc. node	11246 Jan 11 14:44	16° $\approx$ 50'05		desc. node	11248 Jun 28 17:07	0° $\cap$ 31'02	
	11246 Jan 22 09:05	0° $\mathcal{H}$			11248 Jul 24 08:30	0° $\mathcal{B}$	
	11246 Feb 15 23:05	0° $\Upsilon$			11248 Aug 18 13:07	0° $\cap$	
	11246 Mar 12 15:17	0° $\mathcal{B}$			11248 Sep 12 08:38	0° $\cap$	
	11246 Apr 06 12:08	0° $\cap$			11248 Oct 06 23:54	0° $\underline{\cap}$	
	11246 May 01 20:25	0° $\mathcal{B}$		asc. node	11248 Oct 19 12:15	15° $\underline{\cap}$ 17'37	
asc. node	11246 May 04 12:15	3° $\mathcal{B}$ 05'33			11248 Oct 31 12:21	0° $\cap$	
	11246 May 28 08:16	0° $\cap$			11248 Nov 24 22:27	0° $\mathcal{A}$	
evening max el	11246 Jun 13 07:06	16° $\cap$ 46'18	46°50'55	morning set	11248 Dec 06 11:14	14° $\mathcal{A}$ 12'13	
	11246 Jun 27 06:07	0° $\cap$			11248 Dec 19 06:50	0° $\mathcal{B}$	
greatest brilliancy	11246 Jul 23 00:01	17° $\cap$ 17'05	-4.9m	max. Earth dist.	11249 Jan 11 12:47	28° $\mathcal{B}$ 40'58	1.73122 AU
retrograde	11246 Aug 02 16:31	19° $\cap$ 25'08					
evening set	11246 Aug 17 08:48	15° $\cap$ 09'20		superior conj	11249 Jan 12 04:16	29° $\mathcal{B}$ 28'44	0°59'13
min. Earth dist.	11246 Aug 23 04:35	11° $\cap$ 44'09	0.27346 AU	minimum elong	11249 Jan 12 14:03	29° $\mathcal{B}$ 58'55	0°59'29
inferior conj	11246 Aug 23 14:08	11° $\cap$ 29'33	0°14'15		11249 Jan 12 14:24	0° $\approx$	
minimum elong	11246 Aug 23 14:40	11° $\cap$ 28'43	0°13'48		11249 Feb 05 21:36	0° $\mathcal{H}$	
transit middle	11246 Aug 23 14:40	11° $\cap$ 28'43	0°13'48	desc. node	11249 Feb 08 03:38	2° $\mathcal{H}$ 46'50	
transit begin	11246 Aug 23 12:25	11° $\cap$ 32'09		evening rise	11249 Feb 19 03:26	16° $\mathcal{H}$ 21'35	
transit end	11246 Aug 23 16:55	11° $\cap$ 25'16			11249 Mar 02 04:08	0° $\Upsilon$	
desc. node	11246 Aug 24 12:20	10° $\cap$ 55'35			11249 Mar 26 09:36	0° $\mathcal{B}$	
morning rise	11246 Aug 29 21:09	7° $\cap$ 48'56			11249 Apr 19 14:31	0° $\cap$	
direct	11246 Sep 13 10:33	3° $\cap$ 41'07			11249 May 13 21:02	0° $\mathcal{B}$	
greatest brilliancy	11246 Sep 23 04:17	5° $\cap$ 26'01	-4.8m	asc. node	11249 May 31 23:12	22° $\mathcal{B}$ 11'38	
	11246 Oct 28 05:37	0° $\underline{\cap}$			11249 Jun 07 09:00	0° $\cap$	
morning max el	11246 Nov 01 15:17	4° $\underline{\cap}$ 10'06	45°56'53		11249 Jul 02 08:24	0° $\cap$	
	11246 Nov 26 16:42	0° $\cap$			11249 Jul 28 06:45	0° $\underline{\cap}$	
asc. node	11246 Dec 15 11:47	20° $\cap$ 52'55		evening max el	11249 Aug 23 19:27	28° $\underline{\cap}$ 17'59	46°21'59
	11246 Dec 23 11:11	0° $\mathcal{A}$			11249 Aug 25 12:47	0° $\cap$	
	11247 Jan 18 01:51	0° $\mathcal{B}$		desc. node	11249 Sep 20 22:32	22° $\cap$ 09'39	
	11247 Feb 12 01:08	0° $\approx$		greatest brilliancy	11249 Oct 01 19:03	27° $\cap$ 49'12	-4.8m
	11247 Mar 08 15:01	0° $\mathcal{H}$		retrograde	11249 Oct 12 14:31	29° $\cap$ 57'33	
	11247 Apr 01 22:33	0° $\Upsilon$		evening set	11249 Oct 30 01:57	24° $\cap$ 10'26	
desc. node	11247 Apr 06 04:53	5° $\Upsilon$ 17'16		min. Earth dist.	11249 Nov 02 11:51	22° $\cap$ 04'19	0.28797 AU
	11247 Apr 26 01:14	0° $\mathcal{B}$		inferior conj	11249 Nov 03 02:19	21° $\cap$ 41'37	-8°11'34
morning set	11247 May 01 00:20	6° $\mathcal{B}$ 11'56		minimum elong	11249 Nov 02 19:28	21° $\cap$ 52'21	8°10'21
	11247 May 20 00:22	0° $\cap$		morning rise	11249 Nov 06 13:11	19° $\cap$ 33'24	
				direct	11249 Nov 24 10:57	13° $\cap$ 33'18	
superior conj	11247 Jun 10 08:24	26° $\cap$ 47'34	-1°25'03	greatest brilliancy	11249 Dec 04 07:20	15° $\cap$ 18'30	-4.7m
minimum elong	11247 Jun 10 14:03	27° $\cap$ 05'18	1°25'40		11249 Dec 28 03:15	0° $\mathcal{A}$	
max. Earth dist.	11247 Jun 10 06:03	26° $\cap$ 40'11	1.71326 AU	asc. node	11250 Jan 11 23:03	13° $\mathcal{A}$ 18'43	
	11247 Jun 12 21:39	0° $\mathcal{B}$		morning max el	11250 Jan 12 06:56	13° $\mathcal{A}$ 37'44	45°43'15
	11247 Jul 06 19:03	0° $\cap$			11250 Jan 28 09:17	0° $\mathcal{B}$	
evening rise	11247 Jul 20 17:50	17° $\cap$ 28'37			11250 Feb 24 10:25	0° $\approx$	
asc. node	11247 Jul 27 21:38	26° $\cap$ 25'34			11250 Mar 22 00:35	0° $\mathcal{H}$	
	11247 Jul 30 18:20	0° $\cap$			11250 Apr 15 21:16	0° $\Upsilon$	
	11247 Aug 23 20:57	0° $\underline{\cap}$		desc. node	11250 May 03 18:17	21° $\Upsilon$ 54'48	
	11247 Sep 17 04:29	0° $\cap$			11250 May 10 07:30	0° $\mathcal{B}$	
	11247 Oct 11 19:28	0° $\mathcal{A}$			11250 Jun 03 11:04	0° $\cap$	
	11247 Nov 05 22:07	0° $\mathcal{B}$			11250 Jun 27 10:55	0° $\mathcal{B}$	
desc. node	11247 Nov 16 17:11	12° $\mathcal{B}$ 39'06		morning set	11250 Jul 15 09:47	22° $\mathcal{B}$ 29'21	
	11247 Dec 01 19:07	0° $\approx$			11250 Jul 21 09:43	0° $\cap$	
	11247 Dec 29 00:26	0° $\mathcal{H}$			11250 Aug 14 09:22	0° $\cap$	
evening max el	11248 Jan 16 12:50	18° $\mathcal{H}$ 50'07	45°59'01				
	11248 Jan 28 17:06	0° $\Upsilon$		superior conj	11250 Aug 23 18:21	11° $\cap$ 42'02	-0°01'42
greatest brilliancy	11248 Feb 24 18:53	17° $\Upsilon$ 36'12	-4.8m	minimum elong	11250 Aug 23 18:49	11° $\cap$ 43'30	0°01'58

behind sun begin	11250 Aug 22 18:27	10° $\mathbb{M}$ 27'29		min. Earth dist.	11253 Jan 12 15:22	28° $\mathfrak{Z}$ 59'55	0.28716 AU
behind sun end	11250 Aug 24 19:11	12° $\mathbb{M}$ 59'29		morning rise	11253 Jan 17 13:29	26° $\mathfrak{Z}$ 01'21	
asc. node	11250 Aug 24 10:55	12° $\mathbb{M}$ 33'43		direct	11253 Feb 02 10:14	21° $\mathfrak{Z}$ 07'23	
max. Earth dist.	11250 Aug 26 10:03	15° $\mathbb{M}$ 00'37	1.72027 AU	asc. node	11253 Feb 08 09:45	21° $\mathfrak{Z}$ 48'36	
	11250 Sep 07 10:52	0° $\mathfrak{L}$		greatest brilliancy	11253 Feb 13 10:47	23° $\mathfrak{Z}$ 21'37	-4.8m
evening rise	11250 Sep 30 23:27	29° $\mathfrak{L}$ 12'43			11253 Feb 25 16:54	0° $\approx$	
	11250 Oct 01 14:43	0° $\mathbb{M}$		morning max el	11253 Mar 24 04:33	22° $\approx$ 45'24	46°16'52
	11250 Oct 25 21:48	0° $\mathfrak{X}$			11253 Mar 31 07:54	0° $\mathfrak{H}$	
	11250 Nov 19 09:38	0° $\mathfrak{Z}$			11253 Apr 27 16:17	0° $\mathcal{Y}$	
desc. node	11250 Dec 14 04:27	0° $\approx$ 01'26			11253 May 23 07:00	0° $\mathfrak{B}$	
	11250 Dec 14 03:59	0° $\approx$		desc. node	11253 May 31 07:07	9° $\mathfrak{B}$ 35'57	
	11251 Jan 08 06:23	0° $\mathfrak{H}$			11253 Jun 17 02:35	0° $\mathbb{I}$	
	11251 Feb 02 19:14	0° $\mathcal{Y}$			11253 Jul 11 12:30	0° $\mathfrak{E}$	
	11251 Mar 01 02:01	0° $\mathfrak{B}$			11253 Aug 04 18:11	0° $\mathcal{O}$	
	11251 Mar 29 05:23	0° $\mathbb{I}$			11253 Aug 28 22:45	0° $\mathbb{M}$	
evening max el	11251 Mar 29 19:04	0° $\mathbb{I}$ 34'07	46°35'03	asc. node	11253 Sep 21 00:34	28° $\mathbb{M}$ 36'30	
asc. node	11251 Apr 06 04:03	7° $\mathbb{I}$ 42'24			11253 Sep 22 03:31	0° $\mathfrak{L}$	
	11251 May 06 11:46	0° $\mathfrak{E}$		morning set	11253 Sep 25 17:08	4° $\mathfrak{L}$ 25'10	
greatest brilliancy	11251 May 09 10:06	1° $\mathfrak{E}$ 08'52	-4.9m		11253 Oct 16 08:47	0° $\mathbb{M}$	
retrograde	11251 May 18 22:33	2° $\mathfrak{E}$ 52'07					
	11251 May 30 20:56	30° $\mathfrak{R}$ $\mathbb{I}$		superior conj	11253 Nov 02 07:25	20° $\mathbb{M}$ 57'52	1°20'02
evening set	11251 Jun 06 01:49	26° $\mathbb{I}$ 38'00		minimum elong	11253 Nov 02 00:37	20° $\mathbb{M}$ 36'50	1°20'23
inferior conj	11251 Jun 08 15:00	25° $\mathbb{I}$ 04'41	9°02'59	max. Earth dist.	11253 Nov 03 20:31	22° $\mathbb{M}$ 52'37	1.72995 AU
minimum elong	11251 Jun 08 19:33	24° $\mathbb{I}$ 57'42	9°02'01		11253 Nov 09 14:47	0° $\mathfrak{X}$	
min. Earth dist.	11251 Jun 08 22:14	24° $\mathbb{I}$ 53'34	0.27193 AU		11253 Dec 03 22:16	0° $\mathfrak{Z}$	
morning rise	11251 Jun 11 13:13	23° $\mathbb{I}$ 17'35		evening rise	11253 Dec 09 01:55	6° $\mathfrak{Z}$ 20'43	
direct	11251 Jun 29 07:31	17° $\mathbb{I}$ 14'01			11253 Dec 28 08:01	0° $\approx$	
greatest brilliancy	11251 Jul 09 06:04	19° $\mathbb{I}$ 05'24	-4.9m	desc. node	11254 Jan 10 16:38	16° $\approx$ 22'07	
desc. node	11251 Jul 27 03:56	29° $\mathbb{I}$ 32'50			11254 Jan 21 20:15	0° $\mathfrak{H}$	
	11251 Jul 27 18:04	0° $\mathfrak{E}$			11254 Feb 15 10:41	0° $\mathcal{Y}$	
morning max el	11251 Aug 18 14:40	19° $\mathfrak{E}$ 39'31	46°43'18		11254 Mar 12 03:31	0° $\mathfrak{B}$	
	11251 Aug 28 16:43	0° $\mathcal{O}$			11254 Apr 06 01:19	0° $\mathbb{I}$	
	11251 Sep 25 00:07	0° $\mathbb{M}$			11254 May 01 11:15	0° $\mathfrak{E}$	
	11251 Oct 20 23:32	0° $\mathfrak{L}$		asc. node	11254 May 03 14:10	2° $\mathfrak{E}$ 27'31	
	11251 Nov 15 07:38	0° $\mathbb{M}$			11254 May 28 02:43	0° $\mathcal{O}$	
asc. node	11251 Nov 17 01:17	2° $\mathbb{M}$ 04'30		evening max el	11254 Jun 10 22:04	14° $\mathcal{O}$ 26'21	46°51'11
	11251 Dec 10 05:53	0° $\mathfrak{X}$			11254 Jun 27 14:01	0° $\mathbb{M}$	
	11252 Jan 03 21:11	0° $\mathfrak{Z}$		greatest brilliancy	11254 Jul 20 14:54	14° $\mathbb{M}$ 55'36	-4.9m
	11252 Jan 28 07:46	0° $\approx$		retrograde	11254 Jul 31 06:42	17° $\mathbb{M}$ 02'31	
morning set	11252 Feb 14 10:11	21° $\approx$ 05'30		evening set	11254 Aug 14 23:31	12° $\mathbb{M}$ 46'05	
	11252 Feb 21 15:05	0° $\mathfrak{H}$		inferior conj	11254 Aug 21 03:34	9° $\mathbb{M}$ 07'43	0°37'47
desc. node	11252 Mar 07 17:09	18° $\mathfrak{H}$ 41'39		minimum elong	11254 Aug 21 05:01	9° $\mathbb{M}$ 05'29	0°37'00
	11252 Mar 16 19:38	0° $\mathcal{Y}$		min. Earth dist.	11254 Aug 20 18:54	9° $\mathbb{M}$ 21'00	0.27308 AU
max. Earth dist.	11252 Mar 21 02:16	5° $\mathcal{Y}$ 19'06	1.72201 AU	desc. node	11254 Aug 23 14:27	7° $\mathbb{M}$ 38'13	
				morning rise	11254 Aug 27 11:11	5° $\mathbb{M}$ 26'22	
superior conj	11252 Mar 24 05:35	9° $\mathcal{Y}$ 13'30	-0°38'48	direct	11254 Sep 11 00:19	1° $\mathbb{M}$ 19'58	
minimum elong	11252 Mar 23 20:53	8° $\mathcal{Y}$ 46'26	0°38'26	greatest brilliancy	11254 Sep 20 17:22	3° $\mathbb{M}$ 04'33	-4.8m
	11252 Apr 09 21:29	0° $\mathfrak{B}$			11254 Oct 28 06:15	0° $\mathfrak{L}$	
evening rise	11252 May 02 16:14	28° $\mathfrak{B}$ 29'34		morning max el	11254 Oct 30 05:17	1° $\mathfrak{L}$ 52'29	45°58'12
	11252 May 03 21:07	0° $\mathbb{I}$			11254 Nov 26 09:04	0° $\mathbb{M}$	
	11252 May 27 20:04	0° $\mathfrak{E}$		asc. node	11254 Dec 14 13:37	20° $\mathbb{M}$ 17'44	
	11252 Jun 20 20:33	0° $\mathcal{O}$			11254 Dec 23 00:45	0° $\mathfrak{X}$	
asc. node	11252 Jun 28 10:54	9° $\mathcal{O}$ 27'19			11255 Jan 17 14:06	0° $\mathfrak{Z}$	
	11252 Jul 15 01:01	0° $\mathbb{M}$			11255 Feb 11 12:42	0° $\approx$	
	11252 Aug 08 12:27	0° $\mathfrak{L}$			11255 Mar 08 02:15	0° $\mathfrak{H}$	
	11252 Sep 02 11:45	0° $\mathbb{M}$			11255 Apr 01 09:37	0° $\mathcal{Y}$	
	11252 Sep 28 08:53	0° $\mathfrak{X}$		desc. node	11255 Apr 05 06:46	4° $\mathcal{Y}$ 48'50	
desc. node	11252 Oct 18 08:35	21° $\mathfrak{X}$ 52'48			11255 Apr 25 12:14	0° $\mathfrak{B}$	
	11252 Oct 26 04:46	0° $\mathfrak{Z}$		morning set	11255 Apr 28 11:42	3° $\mathfrak{B}$ 43'07	
evening max el	11252 Nov 02 17:44	7° $\mathfrak{Z}$ 27'43	45°51'52		11255 May 19 11:21	0° $\mathbb{I}$	
	11252 Nov 30 02:46	0° $\approx$					
greatest brilliancy	11252 Dec 11 20:42	5° $\approx$ 48'24	-4.7m	superior conj	11255 Jun 07 19:46	24° $\mathbb{I}$ 18'05	-1°25'56
retrograde	11252 Dec 21 16:16	7° $\approx$ 33'26		minimum elong	11255 Jun 08 00:25	24° $\mathbb{I}$ 32'42	1°26'32
evening set	11253 Jan 07 08:18	2° $\approx$ 14'36		max. Earth dist.	11255 Jun 07 11:22	23° $\mathbb{I}$ 51'43	1.71326 AU
	11253 Jan 11 00:58	30° $\mathfrak{R}$ $\mathfrak{Z}$			11255 Jun 12 08:37	0° $\mathfrak{E}$	
inferior conj	11253 Jan 12 00:53	29° $\mathfrak{Z}$ 22'36	-6°04'27		11255 Jul 06 06:00	0° $\mathcal{O}$	
minimum elong	11253 Jan 12 11:02	29° $\mathfrak{Z}$ 06'42	6°01'37	evening rise	11255 Jul 18 05:31	15° $\mathcal{O}$ 00'36	

asc. node	11255 Jul 26 23:34	25°♌57'16			11258 Mar 21 12:58	0°♏	
	11255 Jul 30 05:20	0°♍			11258 Apr 15 08:56	0°♍	
	11255 Aug 23 08:05	0°♌		desc. node	11258 May 02 20:08	21°♍25'34	
	11255 Sep 16 15:51	0°♍			11258 May 09 18:45	0°♏	
	11255 Oct 11 07:15	0°♎			11258 Jun 02 22:05	0°♌	
	11255 Nov 05 10:40	0°♏			11258 Jun 26 21:48	0°♎	
desc. node	11255 Nov 15 19:03	12°♏06'27		morning set	11258 Jul 12 22:13	20°♎04'01	
	11255 Dec 01 09:14	0°♎			11258 Jul 20 20:30	0°♌	
	11255 Dec 28 18:06	0°♏			11258 Aug 13 20:05	0°♍	
evening max el	11256 Jan 14 02:49	16°♏33'06	45°58'04				
	11256 Jan 29 00:04	0°♍		superior conj	11258 Aug 21 07:53	9°♍21'13	-0°05'24
greatest brilliancy	11256 Feb 22 09:30	15°♍18'25	-4.8m	minimum elong	11258 Aug 21 09:16	9°♍25'31	0°05'38
retrograde	11256 Mar 03 05:58	17°♍05'39		behind sun begin	11258 Aug 20 10:00	8°♍12'57	
asc. node	11256 Mar 07 20:02	16°♍40'25		behind sun end	11258 Aug 22 08:31	10°♍38'05	
evening set	11256 Mar 18 01:05	12°♍49'24		asc. node	11258 Aug 23 12:52	12°♍06'28	
inferior conj	11256 Mar 24 03:43	9°♍11'16	4°00'45	max. Earth dist.	11258 Aug 23 20:51	12°♍31'22	1.71990 AU
minimum elong	11256 Mar 23 19:18	9°♍24'21	3°58'17		11258 Sep 06 21:32	0°♌	
min. Earth dist.	11256 Mar 24 06:05	9°♍07'35	0.27612 AU	evening rise	11258 Sep 28 15:11	26°♌59'49	
morning rise	11256 Mar 29 13:09	5°♍56'02			11258 Oct 01 01:22	0°♍	
direct	11256 Apr 14 03:09	1°♍10'45			11258 Oct 25 08:33	0°♎	
greatest brilliancy	11256 Apr 24 09:52	3°♍09'21	-4.9m		11258 Nov 18 20:38	0°♏	
	11256 May 30 15:32	0°♏		desc. node	11258 Dec 13 06:25	29°♏32'54	
morning max el	11256 Jun 03 12:07	3°♏49'32	46°55'36		11258 Dec 13 15:26	0°♎	
desc. node	11256 Jun 27 19:01	29°♏49'29			11259 Jan 07 18:35	0°♏	
	11256 Jun 27 22:46	0°♌			11259 Feb 02 08:44	0°♍	
	11256 Jul 23 22:35	0°♎			11259 Feb 28 18:01	0°♏	
	11256 Aug 18 01:52	0°♌		evening max el	11259 Mar 27 08:34	28°♏12'30	46°33'59
	11256 Sep 11 20:33	0°♍			11259 Mar 29 04:07	0°♌	
	11256 Oct 06 11:17	0°♌		asc. node	11259 Apr 05 05:59	6°♌45'09	
asc. node	11256 Oct 18 14:02	14°♌48'55		greatest brilliancy	11259 May 06 22:20	28°♌44'14	-4.9m
	11256 Oct 30 23:22	0°♍			11259 May 11 14:11	0°♎	
	11256 Nov 24 09:13	0°♎		retrograde	11259 May 16 12:04	0°♎28'31	
morning set	11256 Dec 04 04:21	12°♎04'04			11259 May 21 07:24	30°♎♌	
	11256 Dec 18 17:28	0°♏		evening set	11259 Jun 03 16:16	24°♌11'41	
max. Earth dist.	11257 Jan 09 05:53	26°♏32'55	1.73135 AU	inferior conj	11259 Jun 06 04:01	22°♌40'34	9°07'12
				minimum elong	11259 Jun 06 07:39	22°♌34'58	9°06'20
superior conj	11257 Jan 09 21:03	27°♏19'43	1°01'36	min. Earth dist.	11259 Jun 06 10:31	22°♌30'35	0.27210 AU
minimum elong	11257 Jan 10 06:50	27°♏49'55	1°01'53	morning rise	11259 Jun 08 23:01	20°♌58'26	
	11257 Jan 12 01:00	0°♎		direct	11259 Jun 26 20:59	14°♌49'29	
	11257 Feb 05 08:16	0°♏		greatest brilliancy	11259 Jul 06 18:35	16°♌40'34	-4.9m
desc. node	11257 Feb 07 05:38	2°♏20'04		desc. node	11259 Jul 26 06:04	28°♌20'23	
evening rise	11257 Feb 16 18:59	14°♏08'12			11259 Jul 28 07:43	0°♎	
	11257 Mar 01 14:57	0°♍		morning max el	11259 Aug 16 05:28	17°♎20'25	46°44'32
	11257 Mar 25 20:38	0°♏			11259 Aug 28 11:56	0°♌	
	11257 Apr 19 01:52	0°♌			11259 Sep 24 15:00	0°♍	
	11257 May 13 08:50	0°♎			11259 Oct 20 12:29	0°♌	
asc. node	11257 May 31 01:04	21°♎39'50			11259 Nov 14 19:28	0°♍	
	11257 Jun 06 21:30	0°♌		asc. node	11259 Nov 16 03:10	1°♌34'52	
	11257 Jul 01 22:05	0°♍			11259 Dec 09 17:04	0°♎	
	11257 Jul 27 22:49	0°♌			11260 Jan 03 07:59	0°♏	
evening max el	11257 Aug 21 09:16	25°♌58'38	46°23'22		11260 Jan 27 18:22	0°♎	
	11257 Aug 25 11:52	0°♍		morning set	11260 Feb 12 01:51	18°♎53'05	
desc. node	11257 Sep 20 00:31	20°♍50'27			11260 Feb 21 01:37	0°♏	
greatest brilliancy	11257 Sep 29 10:24	25°♍36'03	-4.8m	desc. node	11260 Mar 06 19:01	18°♏14'49	
retrograde	11257 Oct 10 06:09	27°♍45'18			11260 Mar 16 06:10	0°♍	
evening set	11257 Oct 27 14:24	22°♍03'02		max. Earth dist.	11260 Mar 18 17:58	3°♍05'52	1.72239 AU
min. Earth dist.	11257 Oct 31 02:55	19°♍53'22	0.28758 AU				
inferior conj	11257 Oct 31 18:00	19°♍29'45	-8°04'11	superior conj	11260 Mar 21 19:03	6°♍53'11	-0°35'26
minimum elong	11257 Oct 31 10:34	19°♍41'23	8°02'51	minimum elong	11260 Mar 21 11:00	6°♍28'07	0°35'05
morning rise	11257 Nov 04 06:55	17°♍18'36			11260 Apr 09 08:03	0°♏	
direct	11257 Nov 22 01:41	11°♍21'55		evening rise	11260 Apr 30 04:42	26°♏05'05	
greatest brilliancy	11257 Dec 01 22:32	13°♍07'16	-4.7m		11260 May 03 07:46	0°♌	
	11257 Dec 28 09:37	0°♎			11260 May 27 06:51	0°♎	
morning max el	11258 Jan 09 21:32	11°♎23'41	45°43'00		11260 Jun 20 07:30	0°♌	
asc. node	11258 Jan 11 01:06	12°♎30'34		asc. node	11260 Jun 27 12:55	8°♌59'17	
	11258 Jan 28 02:30	0°♏			11260 Jul 14 12:16	0°♍	
	11258 Feb 24 00:15	0°♎			11260 Aug 08 00:14	0°♌	



	11260 Sep 02 00:28	0°♌			11263 Feb 10 23:59	0°♏		
	11260 Sep 27 23:31	0°♌			11263 Mar 07 13:10	0°♏		
desc. node	11260 Oct 17 10:29	21°♌11'26			11263 Mar 31 20:20	0°♏		
	11260 Oct 26 00:27	0°♏		desc. node	11263 Apr 04 08:33	4°♏21'08		
evening max el	11260 Oct 31 09:46	5°♏17'57 45°52'26			11263 Apr 24 22:54	0°♏		
	11260 Dec 01 10:37	0°♏		morning set	11263 Apr 25 23:00	1°♏15'17		
greatest brilliancy	11260 Dec 09 11:27	3°♏37'20 -4.7m			11263 May 18 21:59	0°♏		
retrograde	11260 Dec 19 08:04	5°♏22'44		max. Earth dist.	11263 Jun 04 14:35	20°♏57'41 1.71330 AU		
evening set	11261 Jan 05 02:53	29°♏59'38						
	11261 Jan 05 02:38	30°♏♏		superior conj	11263 Jun 05 07:15	21°♏50'03 -1°26'37		
inferior conj	11261 Jan 09 16:38	27°♏11'22 -6°18'58		minimum elong	11263 Jun 05 10:53	22°♏01'27 1°27'15		
minimum elong	11261 Jan 10 02:48	26°♏55'24 6°16'11			11263 Jun 11 19:14	0°♏		
min. Earth dist.	11261 Jan 10 06:21	26°♏49'51 0.28751 AU			11263 Jul 05 16:38	0°♏		
morning rise	11261 Jan 15 02:32	23°♏53'55		evening rise	11263 Jul 15 17:15	12°♏33'45		
direct	11261 Jan 31 02:47	18°♏56'10		asc. node	11263 Jul 26 01:31	25°♏29'59		
asc. node	11261 Feb 07 11:47	19°♏58'10			11263 Jul 29 16:00	0°♏		
greatest brilliancy	11261 Feb 11 01:39	21°♏08'55 -4.8m			11263 Aug 22 18:52	0°♏		
	11261 Feb 26 11:40	0°♏			11263 Sep 16 02:52	0°♏		
morning max el	11261 Mar 21 20:15	20°♏32'14 46°15'11			11263 Oct 10 18:43	0°♏		
	11261 Mar 31 02:50	0°♏			11263 Nov 04 22:59	0°♏		
	11261 Apr 27 06:51	0°♏		desc. node	11263 Nov 14 21:01	11°♏34'49		
	11261 May 22 19:48	0°♏			11263 Nov 30 23:14	0°♏		
desc. node	11261 May 30 09:01	9°♏04'06			11263 Dec 28 12:02	0°♏		
	11261 Jun 16 14:29	0°♏		evening max el	11264 Jan 11 16:20	14°♏15'24 45°57'06		
	11261 Jul 10 23:51	0°♏			11264 Jan 29 09:32	0°♏		
	11261 Aug 04 05:09	0°♏		greatest brilliancy	11264 Feb 19 23:55	13°♏00'39 -4.8m		
	11261 Aug 28 09:27	0°♏		retrograde	11264 Feb 29 19:22	14°♏47'22		
asc. node	11261 Sep 20 02:20	28°♏09'22		asc. node	11264 Mar 06 21:57	14°♏02'25		
	11261 Sep 21 14:02	0°♏		evening set	11264 Mar 15 13:41	10°♏32'33		
morning set	11261 Sep 23 08:32	2°♏11'39		inferior conj	11264 Mar 21 17:53	6°♏52'39 3°39'48		
	11261 Oct 15 19:12	0°♏		minimum elong	11264 Mar 21 10:04	7°♏04'48 3°37'30		
				min. Earth dist.	11264 Mar 21 21:11	6°♏47'30 0.27637 AU		
superior conj	11261 Oct 31 00:10	18°♏49'03 1°18'43		morning rise	11264 Mar 27 05:58	3°♏33'34		
minimum elong	11261 Oct 30 16:49	18°♏26'22 1°19'03			11264 Apr 04 05:21	30°♏♏		
max. Earth dist.	11261 Nov 01 15:59	20°♏52'12 1.72974 AU		direct	11264 Apr 11 16:57	28°♏51'25		
	11261 Nov 09 01:11	0°♏			11264 Apr 19 11:00	0°♏		
	11261 Dec 03 08:43	0°♏		greatest brilliancy	11264 Apr 22 01:59	0°♏51'47 -4.9m		
evening rise	11261 Dec 06 18:29	4°♏11'44			11264 May 30 14:42	0°♏		
	11261 Dec 27 18:36	0°♏		morning max el	11264 Jun 01 01:36	1°♏27'13 46°54'57		
desc. node	11262 Jan 09 18:36	15°♏55'19		desc. node	11264 Jun 26 21:07	29°♏09'45		
	11262 Jan 21 07:06	0°♏			11264 Jun 27 14:57	0°♏		
	11262 Feb 14 21:57	0°♏			11264 Jul 23 12:17	0°♏		
	11262 Mar 11 15:25	0°♏			11264 Aug 17 14:17	0°♏		
	11262 Apr 05 14:12	0°♏			11264 Sep 11 08:12	0°♏		
	11262 May 01 01:50	0°♏			11264 Oct 05 22:24	0°♏		
asc. node	11262 May 02 16:06	1°♏50'29		asc. node	11264 Oct 17 15:58	14°♏21'25		
	11262 May 27 21:09	0°♏			11264 Oct 30 10:08	0°♏		
evening max el	11262 Jun 08 12:32	12°♏06'28 46°51'27			11264 Nov 23 19:45	0°♏		
	11262 Jun 27 23:58	0°♏		morning set	11264 Dec 01 21:32	9°♏56'47		
greatest brilliancy	11262 Jul 18 06:32	12°♏36'46 -4.9m			11264 Dec 18 03:55	0°♏		
retrograde	11262 Jul 28 20:36	14°♏41'49		max. Earth dist.	11265 Jan 07 00:37	24°♏30'21 1.73154 AU		
evening set	11262 Aug 12 14:37	10°♏24'36						
inferior conj	11262 Aug 18 17:13	6°♏47'59 1°01'06		superior conj	11265 Jan 07 13:47	25°♏11'00 1°03'53		
minimum elong	11262 Aug 18 19:34	6°♏44'22 1°00'01		minimum elong	11265 Jan 07 23:31	25°♏41'00 1°04'12		
min. Earth dist.	11262 Aug 18 09:39	6°♏59'36 0.27271 AU			11265 Jan 11 11:29	0°♏		
desc. node	11262 Aug 22 16:20	4°♏24'54			11265 Feb 04 18:51	0°♏		
morning rise	11262 Aug 25 01:09	3°♏05'59		desc. node	11265 Feb 06 07:30	1°♏53'05		
	11262 Sep 01 13:00	30°♏♏		evening rise	11265 Feb 14 10:21	11°♏54'36		
direct	11262 Sep 08 13:43	29°♏00'52			11265 Mar 01 01:43	0°♏		
	11262 Sep 15 19:29	0°♏			11265 Mar 25 07:38	0°♏		
greatest brilliancy	11262 Sep 18 06:56	0°♏45'20 -4.8m			11265 Apr 18 13:09	0°♏		
morning max el	11262 Oct 27 18:33	29°♏34'22 45°59'22			11265 May 12 20:34	0°♏		
	11262 Oct 28 05:10	0°♏		asc. node	11265 May 30 03:07	21°♏08'50		
	11262 Nov 26 00:44	0°♏			11265 Jun 06 09:56	0°♏		
asc. node	11262 Dec 13 15:39	19°♏44'23			11265 Jul 01 11:46	0°♏		
	11262 Dec 22 13:53	0°♏			11265 Jul 27 15:04	0°♏		
	11263 Jan 17 02:02	0°♏		evening max el	11265 Aug 18 23:49	23°♏41'25 46°24'49		

	11265 Aug 25 11:52	0°♍		desc. node	11268 Mar 05 20:50	17°♋47'04	
desc. node	11265 Sep 19 02:29	19°♌29'06			11268 Mar 15 16:58	0°♑	
greatest brilliancy	11265 Sep 27 01:16	23°♌22'32	-4.8m	max. Earth dist.	11268 Mar 16 08:37	0°♑48'40	1.72281 AU
retrograde	11265 Oct 07 22:17	25°♌33'25					
evening set	11265 Oct 25 02:43	19°♌55'58		superior conj	11268 Mar 19 08:44	4°♑32'49	-0°32'03
min. Earth dist.	11265 Oct 28 17:41	17°♌43'02	0.28718 AU	minimum elong	11268 Mar 19 01:22	4°♑09'56	0°31'42
inferior conj	11265 Oct 29 09:40	17°♌18'05	-7°55'58		11268 Apr 08 18:55	0°♌	
minimum elong	11265 Oct 29 01:40	17°♌30'34	7°54'30	evening rise	11268 Apr 27 17:03	23°♌39'07	
morning rise	11265 Nov 02 00:49	15°♌03'54			11268 May 02 18:46	0°♐	
direct	11265 Nov 19 16:41	9°♌10'46			11268 May 26 18:01	0°♌	
greatest brilliancy	11265 Nov 29 13:17	10°♌56'02	-4.7m		11268 Jun 19 18:53	0°♎	
	11265 Dec 28 13:45	0°♌		asc. node	11268 Jun 26 14:48	8°♎29'35	
morning max el	11266 Jan 07 12:55	9°♌11'58	45°42'41		11268 Jul 13 23:56	0°♐	
asc. node	11266 Jan 10 03:06	11°♌43'26			11268 Aug 07 12:25	0°♎	
	11266 Jan 27 19:16	0°♌			11268 Sep 01 13:38	0°♌	
	11266 Feb 23 13:57	0°♌			11268 Sep 27 14:42	0°♌	
	11266 Mar 21 01:23	0°♋		desc. node	11268 Oct 16 12:31	20°♌29'03	
	11266 Apr 14 20:40	0°♑			11268 Oct 25 21:09	0°♌	
desc. node	11266 May 01 22:08	20°♑56'28		evening max el	11268 Oct 29 01:37	3°♌06'44	45°53'00
	11266 May 09 06:06	0°♌			11268 Dec 03 11:03	0°♌	
	11266 Jun 02 09:10	0°♐		greatest brilliancy	11268 Dec 07 02:57	1°♌26'31	-4.7m
	11266 Jun 26 08:43	0°♌		retrograde	11268 Dec 16 23:32	3°♌11'37	
morning set	11266 Jul 10 10:28	17°♌38'01			11268 Dec 29 17:27	30°♌	
	11266 Jul 20 07:19	0°♎		evening set	11269 Jan 02 21:38	27°♌44'24	
	11266 Aug 13 06:50	0°♐		inferior conj	11269 Jan 07 08:34	24°♌59'56	-6°32'44
				minimum elong	11269 Jan 07 18:41	24°♌44'01	6°30'04
superior conj	11266 Aug 18 21:17	6°♐59'48	-0°09'05	min. Earth dist.	11269 Jan 07 21:45	24°♌39'12	0.28782 AU
minimum elong	11266 Aug 18 23:35	7°♐06'57	0°09'18	morning rise	11269 Jan 12 15:35	21°♌46'15	
behind sun begin	11266 Aug 18 03:10	6°♐03'15		direct	11269 Jan 28 19:08	16°♌44'44	
behind sun end	11266 Aug 19 19:59	8°♐10'38		asc. node	11269 Feb 06 13:38	18°♌11'10	
max. Earth dist.	11266 Aug 21 09:15	10°♐06'55	1.71955 AU	greatest brilliancy	11269 Feb 08 16:46	18°♌55'59	-4.8m
asc. node	11266 Aug 22 14:37	11°♐38'31			11269 Feb 27 01:53	0°♌	
	11266 Sep 06 08:15	0°♎		morning max el	11269 Mar 19 11:08	18°♌16'17	46°13'32
evening rise	11266 Sep 26 07:00	24°♎46'54			11269 Mar 30 21:34	0°♋	
	11266 Sep 30 12:06	0°♌			11269 Apr 26 21:34	0°♑	
	11266 Oct 24 19:23	0°♌			11269 May 22 08:54	0°♌	
	11266 Nov 18 07:43	0°♌		desc. node	11269 May 29 11:02	8°♌31'32	
desc. node	11266 Dec 12 08:27	29°♌04'16			11269 Jun 16 02:46	0°♐	
	11266 Dec 13 03:00	0°♌			11269 Jul 10 11:38	0°♌	
	11267 Jan 07 06:57	0°♋			11269 Aug 03 16:35	0°♎	
	11267 Feb 01 22:29	0°♑			11269 Aug 27 20:36	0°♐	
	11267 Feb 28 10:32	0°♌		asc. node	11269 Sep 19 04:15	27°♐41'23	
evening max el	11267 Mar 24 22:56	25°♌52'10	46°32'41	morning set	11269 Sep 20 23:42	29°♐56'01	
	11267 Mar 29 04:20	0°♐			11269 Sep 21 00:59	0°♎	
asc. node	11267 Apr 04 07:57	5°♐45'36			11269 Oct 15 06:01	0°♌	
greatest brilliancy	11267 May 04 10:20	26°♐17'58	-4.9m				
retrograde	11267 May 14 01:29	28°♐03'00		superior conj	11269 Oct 28 16:53	16°♌39'01	1°17'19
evening set	11267 Jun 01 05:59	21°♐44'31		minimum elong	11269 Oct 28 09:04	16°♌14'50	1°17'36
inferior conj	11267 Jun 03 16:47	20°♐14'44	9°10'25	max. Earth dist.	11269 Oct 30 10:25	18°♌47'28	1.72947 AU
minimum elong	11267 Jun 03 19:29	20°♐10'36	9°09'40		11269 Nov 08 11:58	0°♌	
min. Earth dist.	11267 Jun 03 22:25	20°♐06'05	0.27222 AU		11269 Dec 02 19:33	0°♌	
morning rise	11267 Jun 06 08:58	18°♐36'51		evening rise	11269 Dec 04 11:14	2°♌02'07	
direct	11267 Jun 24 10:29	12°♐23'34			11269 Dec 27 05:35	0°♌	
greatest brilliancy	11267 Jul 04 06:27	14°♐13'36	-4.9m	desc. node	11270 Jan 08 20:28	15°♌26'59	
desc. node	11267 Jul 25 07:59	27°♐08'42			11270 Jan 20 18:22	0°♋	
	11267 Jul 28 18:18	0°♌			11270 Feb 14 09:37	0°♑	
morning max el	11267 Aug 13 19:54	14°♌59'36	46°45'48		11270 Mar 11 03:43	0°♌	
	11267 Aug 28 06:51	0°♎			11270 Apr 05 03:30	0°♐	
	11267 Sep 24 05:53	0°♐			11270 Apr 30 17:00	0°♌	
	11267 Oct 20 01:29	0°♎		asc. node	11270 May 01 18:10	1°♌12'23	
	11267 Nov 14 07:26	0°♌			11270 May 27 16:35	0°♎	
asc. node	11267 Nov 15 05:08	1°♌05'00		evening max el	11270 Jun 06 01:52	9°♎42'13	46°51'25
	11267 Dec 09 04:25	0°♌			11270 Jun 28 14:21	0°♐	
	11268 Jan 02 19:00	0°♌		greatest brilliancy	11270 Jul 15 22:26	10°♐15'59	-4.9m
	11268 Jan 27 05:12	0°♌		retrograde	11270 Jul 26 09:55	12°♐18'48	
morning set	11268 Feb 09 17:54	16°♌41'13		evening set	11270 Aug 10 05:39	8°♐00'15	
	11268 Feb 20 12:23	0°♋		inferior conj	11270 Aug 16 06:41	4°♐25'57	1°24'29

minimum elong	11270 Aug 16 09:55	4° $\mathbb{M}$ 20'58	1°23'06	max. Earth dist.	11273 Jan 04 21:08	22° $\mathfrak{Z}$ 32'25	1.73167 AU
min. Earth dist.	11270 Aug 16 00:38	4° $\mathbb{M}$ 35'15	0.27239 AU		11273 Jan 10 22:13	0° $\approx$	
desc. node	11270 Aug 21 18:20	1° $\mathbb{M}$ 10'59			11273 Feb 04 05:42	0° $\mathfrak{H}$	
morning rise	11270 Aug 22 14:42	0° $\mathbb{M}$ 43'29		desc. node	11273 Feb 05 09:20	1° $\mathfrak{H}$ 25'17	
	11270 Aug 24 00:42	30° $\mathfrak{R}$ $\Omega$		evening rise	11273 Feb 12 01:53	9° $\mathfrak{H}$ 40'47	
direct	11270 Sep 06 02:22	26° $\Omega$ 39'08			11273 Feb 28 12:44	0° $\mathbb{Y}$	
greatest brilliancy	11270 Sep 15 20:59	28° $\Omega$ 24'21	-4.8m		11273 Mar 24 18:52	0° $\mathfrak{B}$	
	11270 Sep 19 20:00	0° $\mathbb{M}$			11273 Apr 18 00:43	0° $\mathbb{I}$	
morning max el	11270 Oct 25 07:28	27° $\mathbb{M}$ 13'31	46°00'48		11273 May 12 08:34	0° $\mathfrak{G}$	
	11270 Oct 28 03:47	0° $\underline{\mathfrak{A}}$		asc. node	11273 May 29 05:02	20° $\mathfrak{G}$ 36'44	
	11270 Nov 25 16:38	0° $\mathbb{M}$			11273 Jun 05 22:38	0° $\Omega$	
asc. node	11270 Dec 12 17:36	19° $\mathbb{M}$ 09'49			11273 Jul 01 01:44	0° $\mathbb{M}$	
	11270 Dec 22 03:18	0° $\mathfrak{A}$			11273 Jul 27 07:46	0° $\underline{\mathfrak{A}}$	
	11271 Jan 16 14:15	0° $\mathfrak{Z}$		evening max el	11273 Aug 16 15:15	21° $\underline{\mathfrak{A}}$ 26'01	46°26'08
	11271 Feb 10 11:34	0° $\approx$			11273 Aug 25 13:18	0° $\mathbb{M}$	
	11271 Mar 07 00:25	0° $\mathfrak{H}$		desc. node	11273 Sep 18 04:32	18° $\mathbb{M}$ 04'37	
	11271 Mar 31 07:25	0° $\mathbb{Y}$		greatest brilliancy	11273 Sep 24 15:44	21° $\mathbb{M}$ 07'55	-4.8m
desc. node	11271 Apr 03 10:34	3° $\mathbb{Y}$ 53'04		retrograde	11273 Oct 05 14:46	23° $\mathbb{M}$ 20'36	
morning set	11271 Apr 23 10:48	28° $\mathbb{Y}$ 47'54		evening set	11273 Oct 22 14:57	17° $\mathbb{M}$ 48'05	
	11271 Apr 24 09:53	0° $\mathfrak{B}$		min. Earth dist.	11273 Oct 26 08:12	15° $\mathbb{M}$ 32'02	0.28678 AU
	11271 May 18 08:56	0° $\mathbb{I}$		inferior conj	11273 Oct 27 01:15	15° $\mathbb{M}$ 05'27	-7°47'03
max. Earth dist.	11271 Jun 01 19:31	18° $\mathbb{I}$ 08'06	1.71341 AU	minimum elong	11273 Oct 26 16:46	15° $\mathbb{M}$ 18'41	7°45'26
				morning rise	11273 Oct 30 18:49	12° $\mathbb{M}$ 48'00	
superior conj	11271 Jun 02 19:05	19° $\mathbb{I}$ 22'07	-1°27'07	direct	11273 Nov 17 08:06	6° $\mathbb{M}$ 58'47	
minimum elong	11271 Jun 02 21:42	19° $\mathbb{I}$ 30'18	1°27'46	greatest brilliancy	11273 Nov 27 03:32	8° $\mathbb{M}$ 43'25	-4.7m
	11271 Jun 11 06:11	0° $\mathfrak{G}$			11273 Dec 28 16:32	0° $\mathfrak{A}$	
	11271 Jul 05 03:37	0° $\Omega$		morning max el	11274 Jan 05 05:01	7° $\mathfrak{A}$ 01'23	45°42'26
evening rise	11271 Jul 13 05:03	10° $\Omega$ 05'55		asc. node	11274 Jan 09 04:58	10° $\mathfrak{A}$ 56'04	
asc. node	11271 Jul 25 03:20	25° $\Omega$ 01'06			11274 Jan 27 11:56	0° $\mathfrak{Z}$	
	11271 Jul 29 03:05	0° $\mathbb{M}$			11274 Feb 23 03:41	0° $\approx$	
	11271 Aug 22 06:06	0° $\underline{\mathfrak{A}}$			11274 Mar 20 13:50	0° $\mathfrak{H}$	
	11271 Sep 15 14:21	0° $\mathbb{M}$			11274 Apr 14 08:28	0° $\mathbb{Y}$	
	11271 Oct 10 06:39	0° $\mathfrak{A}$		desc. node	11274 May 01 00:00	20° $\mathbb{Y}$ 26'50	
	11271 Nov 04 11:48	0° $\mathfrak{Z}$			11274 May 08 17:31	0° $\mathfrak{B}$	
desc. node	11271 Nov 13 23:04	11° $\mathfrak{Z}$ 02'04			11274 Jun 01 20:21	0° $\mathbb{I}$	
	11271 Nov 30 13:49	0° $\approx$			11274 Jun 25 19:44	0° $\mathfrak{G}$	
	11271 Dec 28 06:49	0° $\mathfrak{H}$		morning set	11274 Jul 07 22:56	15° $\mathfrak{G}$ 12'24	
evening max el	11272 Jan 09 06:05	11° $\mathfrak{H}$ 57'36	45°56'20		11274 Jul 19 18:12	0° $\Omega$	
	11272 Jan 29 22:48	0° $\mathbb{Y}$			11274 Aug 12 17:38	0° $\mathbb{M}$	
greatest brilliancy	11272 Feb 17 14:00	10° $\mathbb{Y}$ 41'54	-4.8m				
retrograde	11272 Feb 27 09:22	12° $\mathbb{Y}$ 28'48		superior conj	11274 Aug 16 10:53	4° $\mathbb{M}$ 38'45	-0°12'44
asc. node	11272 Mar 06 00:01	11° $\mathbb{Y}$ 18'44		minimum elong	11274 Aug 16 14:04	4° $\mathbb{M}$ 48'43	0°12'56
evening set	11272 Mar 13 02:40	8° $\mathbb{Y}$ 14'52		behind sun begin	11274 Aug 15 23:04	4° $\mathbb{M}$ 01'52	
inferior conj	11272 Mar 19 08:10	4° $\mathbb{Y}$ 33'31	3°18'38	behind sun end	11274 Aug 17 05:04	5° $\mathbb{M}$ 35'34	
minimum elong	11272 Mar 19 01:00	4° $\mathbb{Y}$ 44'39	3°16'31	max. Earth dist.	11274 Aug 19 00:14	7° $\mathbb{M}$ 50'16	1.71918 AU
min. Earth dist.	11272 Mar 19 12:14	4° $\mathbb{Y}$ 27'12	0.27664 AU	asc. node	11274 Aug 21 16:35	11° $\mathbb{M}$ 11'04	
morning rise	11272 Mar 24 22:48	1° $\mathbb{Y}$ 11'01			11274 Sep 05 18:58	0° $\underline{\mathfrak{A}}$	
	11272 Mar 27 03:57	30° $\mathfrak{R}$ $\mathfrak{H}$		evening rise	11274 Sep 23 23:02	22° $\underline{\mathfrak{A}}$ 34'33	
direct	11272 Apr 09 07:14	26° $\mathfrak{H}$ 31'30			11274 Sep 29 22:51	0° $\mathbb{M}$	
greatest brilliancy	11272 Apr 19 18:03	28° $\mathfrak{H}$ 33'39	-4.9m		11274 Oct 24 06:16	0° $\mathfrak{A}$	
	11272 Apr 23 03:50	0° $\mathbb{Y}$			11274 Nov 17 18:54	0° $\mathfrak{Z}$	
morning max el	11272 May 29 16:17	29° $\mathbb{Y}$ 07'20	46°54'22	desc. node	11274 Dec 11 10:16	28° $\mathfrak{Z}$ 34'45	
	11272 May 30 13:11	0° $\mathfrak{B}$			11274 Dec 12 14:40	0° $\approx$	
desc. node	11272 Jun 25 22:59	28° $\mathfrak{B}$ 29'07			11275 Jan 06 19:26	0° $\mathfrak{H}$	
	11272 Jun 27 07:05	0° $\mathbb{I}$			11275 Feb 01 12:23	0° $\mathbb{Y}$	
	11272 Jul 23 02:04	0° $\mathfrak{G}$			11275 Feb 28 03:20	0° $\mathfrak{B}$	
	11272 Aug 17 02:53	0° $\Omega$		evening max el	11275 Mar 22 13:36	23° $\mathfrak{B}$ 32'54	46°31'23
	11272 Sep 10 20:06	0° $\mathbb{M}$			11275 Mar 29 05:42	0° $\mathbb{I}$	
	11272 Oct 05 09:50	0° $\underline{\mathfrak{A}}$		asc. node	11275 Apr 03 10:01	4° $\mathbb{I}$ 45'10	
asc. node	11272 Oct 16 17:55	13° $\underline{\mathfrak{A}}$ 53'00		greatest brilliancy	11275 May 01 22:48	23° $\mathbb{I}$ 52'51	-4.9m
	11272 Oct 29 21:14	0° $\mathbb{M}$		retrograde	11275 May 11 14:44	25° $\mathbb{I}$ 37'58	
	11272 Nov 23 06:37	0° $\mathfrak{A}$		evening set	11275 May 29 19:20	19° $\mathbb{I}$ 19'01	
morning set	11272 Nov 29 14:34	7° $\mathfrak{A}$ 48'00		inferior conj	11275 Jun 01 05:45	17° $\mathbb{I}$ 49'36	9°12'39
	11272 Dec 17 14:40	0° $\mathfrak{Z}$		minimum elong	11275 Jun 01 07:26	17° $\mathbb{I}$ 46'59	9°11'58
				min. Earth dist.	11275 Jun 01 10:37	17° $\mathbb{I}$ 42'06	0.27234 AU
superior conj	11273 Jan 05 06:29	23° $\mathfrak{Z}$ 01'17	1°06'04	morning rise	11275 Jun 03 19:34	16° $\mathbb{I}$ 15'06	
minimum elong	11273 Jan 05 16:06	23° $\mathfrak{Z}$ 30'57	1°06'25	direct	11275 Jun 22 00:02	9° $\mathbb{I}$ 58'24	

greatest brilliancy	11275 Jul 01 18:42	11°II47'19	-4.9m	desc. node	11278 Jan 07 22:24	14°≈59'50	
desc. node	11275 Jul 24 09:55	25°II59'21			11278 Jan 20 05:20	0°H	
	11275 Jul 29 01:58	0°☾			11278 Feb 13 21:03	0°Y	
morning max el	11275 Aug 11 09:50	12°☾37'40	46°47'04		11278 Mar 10 15:49	0°B	
	11275 Aug 28 01:11	0°Ω			11278 Apr 04 16:40	0°II	
	11275 Sep 23 20:27	0°P			11278 Apr 30 08:05	0°☾	
	11275 Oct 19 14:16	0°Δ		asc. node	11278 Apr 30 20:04	0°☾34'19	
	11275 Nov 13 19:14	0°M			11278 May 27 12:15	0°Ω	
asc. node	11275 Nov 14 07:02	0°M35'22		evening max el	11278 Jun 03 14:28	7°Ω17'03	46°51'33
	11275 Dec 08 15:39	0°X			11278 Jun 29 09:04	0°P	
	11276 Jan 02 05:54	0°Z		greatest brilliancy	11278 Jul 13 13:59	7°P55'35	-4.9m
	11276 Jan 26 15:57	0°≈		retrograde	11278 Jul 23 23:07	9°P56'46	
morning set	11276 Feb 07 09:55	14°≈29'27		evening set	11278 Aug 07 20:45	5°P36'10	
	11276 Feb 19 23:04	0°H		inferior conj	11278 Aug 13 20:04	2°P04'39	1°47'51
desc. node	11276 Mar 04 22:50	17°H20'10		minimum elong	11278 Aug 14 00:11	1°P58'20	1°46'10
max. Earth dist.	11276 Mar 13 21:14	28°H25'34	1.72321 AU	min. Earth dist.	11278 Aug 13 15:33	2°P11'34	0.27212 AU
	11276 Mar 15 03:38	0°Y			11278 Aug 17 06:22	30°RΩ	
				morning rise	11278 Aug 20 03:58	28°Ω22'07	
superior conj	11276 Mar 16 22:25	2°Y12'56	-0°28'36	desc. node	11278 Aug 20 20:27	28°Ω00'35	
minimum elong	11276 Mar 16 15:48	1°Y52'22	0°28'15	direct	11278 Sep 03 14:49	24°Ω17'47	
	11276 Apr 08 05:39	0°B		greatest brilliancy	11278 Sep 13 11:17	26°Ω04'25	-4.8m
evening rise	11276 Apr 25 05:25	21°B13'45			11278 Sep 21 22:38	0°P	
	11276 May 02 05:38	0°II		morning max el	11278 Oct 22 20:59	24°P54'55	46°02'19
	11276 May 26 05:03	0°☾			11278 Oct 28 01:10	0°Δ	
	11276 Jun 19 06:08	0°Ω			11278 Nov 25 07:56	0°M	
asc. node	11276 Jun 25 16:40	8°Ω00'10		asc. node	11278 Dec 11 19:28	18°M36'12	
	11276 Jul 13 11:31	0°P			11278 Dec 21 16:15	0°X	
	11276 Aug 07 00:31	0°Δ			11279 Jan 16 02:03	0°Z	
	11276 Sep 01 02:43	0°M			11279 Feb 09 22:46	0°≈	
	11276 Sep 27 05:53	0°X			11279 Mar 06 11:18	0°H	
desc. node	11276 Oct 15 14:34	19°X46'51			11279 Mar 30 18:10	0°Y	
	11276 Oct 25 18:19	0°Z		desc. node	11279 Apr 02 12:27	3°Y25'36	
evening max el	11276 Oct 26 16:37	0°Z54'05	45°53'35	morning set	11279 Apr 20 22:22	26°Y20'46	
greatest brilliancy	11276 Dec 04 18:41	29°Z16'41	-4.7m		11279 Apr 23 20:35	0°B	
	11276 Dec 07 03:36	0°≈			11279 May 17 19:37	0°II	
retrograde	11276 Dec 14 14:33	1°≈01'22		max. Earth dist.	11279 May 30 01:56	15°II23'59	1.71353 AU
	11276 Dec 21 19:14	30°RZ					
evening set	11276 Dec 31 16:21	25°Z29'57		superior conj	11279 May 31 06:29	16°II53'39	-1°27'28
inferior conj	11277 Jan 05 00:32	22°Z49'23	-6°45'54	minimum elong	11279 May 31 08:01	16°II58'29	1°28'06
minimum elong	11277 Jan 05 10:32	22°Z33'39	6°43'20		11279 Jun 10 16:51	0°☾	
min. Earth dist.	11277 Jan 05 13:26	22°Z29'05	0.28815 AU		11279 Jul 04 14:18	0°Ω	
morning rise	11277 Jan 10 04:32	19°Z39'39		evening rise	11279 Jul 10 16:27	7°Ω37'51	
direct	11277 Jan 26 11:06	14°Z34'02		asc. node	11279 Jul 24 05:16	24°Ω33'37	
asc. node	11277 Feb 05 15:44	16°Z28'51			11279 Jul 28 13:50	0°P	
greatest brilliancy	11277 Feb 06 08:31	16°Z44'25	-4.8m		11279 Aug 21 17:00	0°Δ	
	11277 Feb 27 12:09	0°≈			11279 Sep 15 01:31	0°M	
morning max el	11277 Mar 17 01:34	15°≈59'38	46°11'56		11279 Oct 09 18:18	0°X	
	11277 Mar 30 15:37	0°H			11279 Nov 04 00:21	0°Z	
	11277 Apr 26 11:55	0°Y		desc. node	11279 Nov 13 00:56	10°Z29'39	
	11277 May 21 21:41	0°B			11279 Nov 30 04:12	0°≈	
desc. node	11277 May 28 12:55	7°B59'30			11279 Dec 28 01:41	0°H	
	11277 Jun 15 14:43	0°II		evening max el	11280 Jan 06 20:43	9°H43'20	45°55'41
	11277 Jul 09 23:06	0°☾			11280 Jan 30 15:49	0°Y	
	11277 Aug 03 03:42	0°Ω		greatest brilliancy	11280 Feb 15 03:26	8°Y24'03	-4.8m
	11277 Aug 27 07:28	0°P		retrograde	11280 Feb 24 23:48	10°Y11'41	
asc. node	11277 Sep 18 06:12	27°P14'17		asc. node	11280 Mar 05 02:01	8°Y31'29	
morning set	11277 Sep 18 14:46	27°P40'49		evening set	11280 Mar 10 15:56	5°Y58'24	
	11277 Sep 20 11:39	0°Δ		inferior conj	11280 Mar 16 22:28	2°Y15'41	2°57'13
	11277 Oct 14 16:34	0°M		minimum elong	11280 Mar 16 15:59	2°Y25'44	2°55'17
				min. Earth dist.	11280 Mar 17 02:57	2°Y08'43	0.27695 AU
superior conj	11277 Oct 26 09:40	14°M30'01	1°15'47		11280 Mar 20 15:08	30°RX	
minimum elong	11277 Oct 26 01:24	14°M04'27	1°16'01	morning rise	11280 Mar 22 15:32	28°H50'04	
max. Earth dist.	11277 Oct 28 03:04	16°M38'03	1.72917 AU	direct	11280 Apr 06 22:07	24°H13'04	
	11277 Nov 07 22:28	0°X		greatest brilliancy	11280 Apr 17 09:38	26°H16'21	-4.9m
evening rise	11277 Dec 02 04:07	29°X53'57			11280 Apr 25 03:28	0°Y	
	11277 Dec 02 06:04	0°Z		morning max el	11280 May 27 07:44	26°Y50'27	46°53'28
	11277 Dec 26 16:16	0°≈			11280 May 30 10:27	0°B	

desc. node	11280 Jun 25 00:56	27° $\text{♁}$ 49'58			11283 Feb 27 20:18	0° $\text{♁}$	
	11280 Jun 26 22:41	0° $\text{♁}$		evening max el	11283 Mar 20 03:47	21° $\text{♁}$ 13'04	46°30'08
	11280 Jul 22 15:28	0° $\text{♁}$			11283 Mar 29 08:11	0° $\text{♁}$	
	11280 Aug 16 15:08	0° $\text{♁}$		asc. node	11283 Apr 02 11:58	3° $\text{♁}$ 43'46	
	11280 Sep 10 07:39	0° $\text{♁}$		greatest brilliancy	11283 Apr 29 11:53	21° $\text{♁}$ 29'29	-4.9m
	11280 Oct 04 20:54	0° $\text{♁}$		retrograde	11283 May 09 03:27	23° $\text{♁}$ 14'05	
asc. node	11280 Oct 15 19:43	13° $\text{♁}$ 25'10		evening set	11283 May 27 08:14	16° $\text{♁}$ 55'44	
	11280 Oct 29 07:58	0° $\text{♁}$		inferior conj	11283 May 29 18:51	15° $\text{♁}$ 25'51	9°13'54
	11280 Nov 22 17:09	0° $\text{♁}$		minimum elong	11283 May 29 19:33	15° $\text{♁}$ 24'45	9°13'15
morning set	11280 Nov 27 07:31	5° $\text{♁}$ 39'57		min. Earth dist.	11283 May 29 23:15	15° $\text{♁}$ 19'02	0.27244 AU
	11280 Dec 17 01:06	0° $\text{♁}$		morning rise	11283 Jun 01 06:54	13° $\text{♁}$ 53'48	
				direct	11283 Jun 19 13:20	7° $\text{♁}$ 34'32	
superior conj	11281 Jan 02 23:14	20° $\text{♁}$ 52'40	1°08'10	greatest brilliancy	11283 Jun 29 07:37	9° $\text{♁}$ 22'49	-4.9m
minimum elong	11281 Jan 03 08:41	21° $\text{♁}$ 21'51	1°08'32	desc. node	11283 Jul 23 12:03	24° $\text{♁}$ 53'11	
max. Earth dist.	11281 Jan 02 18:04	20° $\text{♁}$ 36'43	1.73175 AU		11283 Jul 29 07:02	0° $\text{♁}$	
	11281 Jan 10 08:39	0° $\text{♁}$		morning max el	11283 Aug 08 22:46	10° $\text{♁}$ 13'44	46°48'05
	11281 Feb 03 16:13	0° $\text{♁}$			11283 Aug 27 18:54	0° $\text{♁}$	
desc. node	11281 Feb 04 11:19	0° $\text{♁}$ 58'59			11283 Sep 23 10:44	0° $\text{♁}$	
evening rise	11281 Feb 09 17:31	7° $\text{♁}$ 28'24			11283 Oct 19 02:55	0° $\text{♁}$	
	11281 Feb 27 23:24	0° $\text{♁}$		asc. node	11283 Nov 13 08:55	0° $\text{♁}$ 05'58	
	11281 Mar 24 05:46	0° $\text{♁}$			11283 Nov 13 06:56	0° $\text{♁}$	
	11281 Apr 17 11:56	0° $\text{♁}$			11283 Dec 08 02:46	0° $\text{♁}$	
	11281 May 11 20:18	0° $\text{♁}$			11284 Jan 01 16:43	0° $\text{♁}$	
asc. node	11281 May 28 06:54	20° $\text{♁}$ 05'14			11284 Jan 26 02:36	0° $\text{♁}$	
	11281 Jun 05 11:10	0° $\text{♁}$		morning set	11284 Feb 05 01:46	12° $\text{♁}$ 17'32	
	11281 Jun 30 15:38	0° $\text{♁}$			11284 Feb 19 09:40	0° $\text{♁}$	
	11281 Jul 27 00:35	0° $\text{♁}$		desc. node	11284 Mar 04 00:40	16° $\text{♁}$ 52'53	
evening max el	11281 Aug 14 07:21	19° $\text{♁}$ 12'42	46°27'32	max. Earth dist.	11284 Mar 11 09:23	26° $\text{♁}$ 01'17	1.72363 AU
	11281 Aug 25 15:59	0° $\text{♁}$					
desc. node	11281 Sep 17 06:30	16° $\text{♁}$ 37'35		superior conj	11284 Mar 14 12:11	29° $\text{♁}$ 53'32	-0°25'07
greatest brilliancy	11281 Sep 22 06:15	18° $\text{♁}$ 53'40	-4.8m	minimum elong	11284 Mar 14 06:19	29° $\text{♁}$ 35'20	0°24'46
retrograde	11281 Oct 03 07:04	21° $\text{♁}$ 07'39			11284 Mar 14 14:16	0° $\text{♁}$	
evening set	11281 Oct 20 03:01	15° $\text{♁}$ 40'22			11284 Apr 07 16:21	0° $\text{♁}$	
min. Earth dist.	11281 Oct 23 22:28	13° $\text{♁}$ 21'09	0.28632 AU	evening rise	11284 Apr 22 17:58	18° $\text{♁}$ 49'16	
inferior conj	11281 Oct 24 16:37	12° $\text{♁}$ 52'51	-7°37'23		11284 May 01 16:26	0° $\text{♁}$	
minimum elong	11281 Oct 24 07:42	13° $\text{♁}$ 06'46	7°35'38		11284 May 25 15:59	0° $\text{♁}$	
morning rise	11281 Oct 28 12:43	10° $\text{♁}$ 31'54			11284 Jun 18 17:16	0° $\text{♁}$	
direct	11281 Nov 14 23:38	4° $\text{♁}$ 47'03		asc. node	11284 Jun 24 18:41	7° $\text{♁}$ 31'36	
greatest brilliancy	11281 Nov 24 17:08	6° $\text{♁}$ 30'25	-4.7m		11284 Jul 12 22:59	0° $\text{♁}$	
	11281 Dec 28 17:33	0° $\text{♁}$			11284 Aug 06 12:34	0° $\text{♁}$	
morning max el	11282 Jan 02 20:45	4° $\text{♁}$ 50'42	45°42'11		11284 Aug 31 15:51	0° $\text{♁}$	
asc. node	11282 Jan 08 07:03	10° $\text{♁}$ 10'47			11284 Sep 26 21:19	0° $\text{♁}$	
	11282 Jan 27 04:01	0° $\text{♁}$		desc. node	11284 Oct 14 16:27	19° $\text{♁}$ 03'35	
	11282 Feb 22 17:02	0° $\text{♁}$		evening max el	11284 Oct 24 06:51	28° $\text{♁}$ 39'18	45°54'12
	11282 Mar 20 01:56	0° $\text{♁}$			11284 Oct 25 16:23	0° $\text{♁}$	
	11282 Apr 13 19:55	0° $\text{♁}$		greatest brilliancy	11284 Dec 02 10:24	27° $\text{♁}$ 06'33	-4.7m
desc. node	11282 Apr 30 01:51	19° $\text{♁}$ 58'07		retrograde	11284 Dec 12 05:37	28° $\text{♁}$ 51'09	
	11282 May 08 04:35	0° $\text{♁}$		evening set	11284 Dec 29 11:02	23° $\text{♁}$ 15'15	
	11282 Jun 01 07:12	0° $\text{♁}$		inferior conj	11285 Jan 02 16:32	20° $\text{♁}$ 38'45	-6°58'25
	11282 Jun 25 06:28	0° $\text{♁}$		minimum elong	11285 Jan 03 02:21	20° $\text{♁}$ 23'18	6°55'58
morning set	11282 Jul 05 11:12	12° $\text{♁}$ 46'55		min. Earth dist.	11285 Jan 03 05:17	20° $\text{♁}$ 18'42	0.28848 AU
	11282 Jul 19 04:53	0° $\text{♁}$		morning rise	11285 Jan 07 17:27	17° $\text{♁}$ 33'15	
	11282 Aug 12 04:15	0° $\text{♁}$		direct	11285 Jan 24 02:45	12° $\text{♁}$ 23'05	
				greatest brilliancy	11285 Feb 04 00:45	14° $\text{♁}$ 33'27	-4.8m
superior conj	11282 Aug 14 00:00	2° $\text{♁}$ 16'42	-0°16'26	asc. node	11285 Feb 04 17:44	14° $\text{♁}$ 50'01	
minimum elong	11282 Aug 14 04:05	2° $\text{♁}$ 29'28	0°16'36		11285 Feb 27 19:39	0° $\text{♁}$	
max. Earth dist.	11282 Aug 16 15:12	5° $\text{♁}$ 34'05	1.71882 AU	morning max el	11285 Mar 14 15:58	13° $\text{♁}$ 42'53	46°10'22
asc. node	11282 Aug 20 18:30	10° $\text{♁}$ 44'00			11285 Mar 30 09:17	0° $\text{♁}$	
	11282 Sep 05 05:33	0° $\text{♁}$			11285 Apr 26 02:08	0° $\text{♁}$	
evening rise	11282 Sep 21 14:29	20° $\text{♁}$ 20'48			11285 May 21 10:26	0° $\text{♁}$	
	11282 Sep 29 09:26	0° $\text{♁}$		desc. node	11285 May 27 14:49	7° $\text{♁}$ 27'29	
	11282 Oct 23 16:59	0° $\text{♁}$			11285 Jun 15 02:41	0° $\text{♁}$	
	11282 Nov 17 05:55	0° $\text{♁}$			11285 Jul 09 10:33	0° $\text{♁}$	
desc. node	11282 Dec 10 12:14	28° $\text{♁}$ 06'10			11285 Aug 02 14:48	0° $\text{♁}$	
	11282 Dec 12 02:12	0° $\text{♁}$			11285 Aug 26 18:19	0° $\text{♁}$	
	11283 Jan 06 07:49	0° $\text{♁}$		morning set	11285 Sep 16 06:01	25° $\text{♁}$ 26'03	
	11283 Feb 01 02:16	0° $\text{♁}$		asc. node	11285 Sep 17 07:58	26° $\text{♁}$ 46'33	

	11285 Sep 19 22:20	0°♌			11288 Mar 14 10:53	30°♏	
	11285 Oct 14 03:09	0°♍		inferior conj	11288 Mar 14 12:49	29°♏57'01	2°35'27
				minimum elong	11288 Mar 14 07:04	0°♏05'56	2°33'46
superior conj	11285 Oct 24 02:30	12°♍20'55	1°14'09	min. Earth dist.	11288 Mar 14 17:32	29°♏49'42	0.27725 AU
minimum elong	11285 Oct 23 17:49	11°♍54'04	1°14'20	morning rise	11288 Mar 20 08:10	26°♏28'26	
max. Earth dist.	11285 Oct 25 18:45	14°♍25'27	1.72893 AU	direct	11288 Apr 04 13:25	21°♏54'03	
	11285 Nov 07 09:02	0°♏		greatest brilliancy	11288 Apr 15 00:46	23°♏57'38	-4.9m
evening rise	11285 Nov 29 20:58	27°♏45'21			11288 Apr 26 11:48	0°♏	
	11285 Dec 01 16:43	0°♐		morning max el	11288 May 24 23:10	24°♏32'42	46°52'27
	11285 Dec 26 03:04	0°♑			11288 May 30 07:20	0°♐	
desc. node	11286 Jan 07 00:20	14°♑32'17		desc. node	11288 Jun 24 03:00	27°♐10'34	
	11286 Jan 19 16:27	0°♒			11288 Jun 26 14:22	0°♑	
	11286 Feb 13 08:39	0°♓			11288 Jul 22 05:06	0°♒	
	11286 Mar 10 04:08	0°♑			11288 Aug 16 03:41	0°♓	
	11286 Apr 04 06:07	0°♒			11288 Sep 09 19:30	0°♑	
asc. node	11286 Apr 29 22:02	29°♒55'33			11288 Oct 04 08:16	0°♓	
	11286 Apr 29 23:36	0°♒		asc. node	11288 Oct 14 21:39	12°♓56'47	
	11286 May 27 08:47	0°♓			11288 Oct 28 18:59	0°♑	
evening max el	11286 Jun 01 03:23	4°♓52'14	46°51'44		11288 Nov 22 03:56	0°♒	
	11286 Jun 30 10:49	0°♑		morning set	11288 Nov 25 00:47	3°♒32'05	
greatest brilliancy	11286 Jul 11 05:05	5°♑34'20	-4.9m		11288 Dec 16 11:48	0°♓	
retrograde	11286 Jul 21 12:49	7°♑34'46					
evening set	11286 Aug 05 12:06	3°♑11'37		superior conj	11288 Dec 31 16:15	18°♓44'01	1°10'09
	11286 Aug 10 22:32	30°♒♓		minimum elong	11289 Jan 01 01:28	19°♓12'27	1°10'32
inferior conj	11286 Aug 11 09:31	29°♓43'09	2°11'01	max. Earth dist.	11288 Dec 31 15:11	18°♓40'42	1.73185 AU
minimum elong	11286 Aug 11 14:29	29°♓35'33	2°09'02		11289 Jan 09 19:23	0°♑	
min. Earth dist.	11286 Aug 11 06:18	29°♓48'05	0.27185 AU		11289 Feb 03 03:04	0°♒	
morning rise	11286 Aug 17 17:08	26°♓01'11		desc. node	11289 Feb 03 13:10	0°♒31'09	
desc. node	11286 Aug 19 22:18	24°♓54'25		evening rise	11289 Feb 07 09:13	5°♒15'08	
direct	11286 Sep 01 03:30	21°♓56'15			11289 Feb 27 10:26	0°♓	
greatest brilliancy	11286 Sep 11 01:23	23°♓44'15	-4.8m		11289 Mar 23 17:03	0°♑	
	11286 Sep 23 08:14	0°♑			11289 Apr 16 23:35	0°♒	
morning max el	11286 Oct 20 11:26	22°♑38'21	46°03'50		11289 May 11 08:28	0°♒	
	11286 Oct 27 21:50	0°♓		asc. node	11289 May 27 08:57	19°♒33'03	
	11286 Nov 24 23:07	0°♑			11289 Jun 05 00:09	0°♓	
asc. node	11286 Dec 10 21:29	18°♑02'50			11289 Jun 30 06:04	0°♑	
	11286 Dec 21 05:17	0°♒			11289 Jul 26 18:13	0°♓	
	11287 Jan 15 14:02	0°♓		evening max el	11289 Aug 11 23:41	16°♓58'35	46°28'49
	11287 Feb 09 10:10	0°♑			11289 Aug 25 20:55	0°♑	
	11287 Mar 05 22:24	0°♒		desc. node	11289 Sep 16 08:28	15°♑06'26	
	11287 Mar 30 05:08	0°♓		greatest brilliancy	11289 Sep 19 21:28	16°♑39'03	-4.8m
desc. node	11287 Apr 01 14:13	2°♓57'08		retrograde	11289 Sep 30 23:04	18°♑53'27	
morning set	11287 Apr 18 10:00	23°♓53'18		evening set	11289 Oct 17 15:10	13°♑31'47	
	11287 Apr 23 07:30	0°♑		min. Earth dist.	11289 Oct 21 13:01	11°♑08'59	0.28579 AU
	11287 May 17 06:31	0°♒		inferior conj	11289 Oct 22 08:02	10°♑39'20	-7°26'57
max. Earth dist.	11287 May 27 10:42	12°♒46'29	1.71369 AU	minimum elong	11289 Oct 21 22:44	10°♑53'50	7°25'05
				morning rise	11289 Oct 26 06:42	8°♑14'36	
superior conj	11287 May 28 17:52	14°♒24'20	-1°27'38	direct	11289 Nov 12 15:12	2°♑34'36	
minimum elong	11287 May 28 18:18	14°♒25'43	1°28'16	greatest brilliancy	11289 Nov 22 06:42	4°♑16'26	-4.7m
	11287 Jun 10 03:46	0°♒			11289 Dec 28 17:39	0°♒	
	11287 Jul 04 01:16	0°♓		morning max el	11289 Dec 31 11:40	2°♒37'17	45°42'00
evening rise	11287 Jul 08 03:55	5°♓09'07		asc. node	11290 Jan 07 09:00	9°♒25'08	
asc. node	11287 Jul 23 07:12	24°♓05'13			11290 Jan 26 20:05	0°♓	
	11287 Jul 28 00:52	0°♑			11290 Feb 22 06:33	0°♑	
	11287 Aug 21 04:09	0°♓			11290 Mar 19 14:20	0°♒	
	11287 Sep 14 12:54	0°♑			11290 Apr 13 07:43	0°♓	
	11287 Oct 09 06:11	0°♒		desc. node	11290 Apr 29 03:51	19°♓28'35	
	11287 Nov 03 13:12	0°♓			11290 May 07 16:03	0°♑	
desc. node	11287 Nov 12 02:56	9°♓56'50			11290 May 31 18:27	0°♒	
	11287 Nov 29 19:02	0°♑			11290 Jun 24 17:35	0°♒	
	11287 Dec 27 21:29	0°♒		morning set	11290 Jul 02 23:15	10°♒19'34	
evening max el	11288 Jan 04 12:15	7°♒30'31	45°54'56		11290 Jul 18 15:54	0°♓	
	11288 Jan 31 15:34	0°♓					
greatest brilliancy	11288 Feb 12 16:53	6°♓05'29	-4.8m	superior conj	11290 Aug 11 13:00	29°♓53'08	-0°20'06
retrograde	11288 Feb 22 14:23	7°♓53'38		minimum elong	11290 Aug 11 17:57	0°♑08'36	0°20'15
asc. node	11288 Mar 04 03:55	5°♓38'44			11290 Aug 11 15:12	0°♑	
evening set	11288 Mar 08 05:33	3°♓41'03		max. Earth dist.	11290 Aug 14 05:54	3°♑15'51	1.71845 AU

asc. node	11290 Aug 19 20:17	10°♎15'22			11293 Mar 30 02:36	0°♎		
	11290 Sep 04 16:29	0°♊			11293 Apr 25 16:15	0°♎		
evening rise	11290 Sep 19 05:51	18°♊05'31			11293 May 20 23:11	0°♎		
	11290 Sep 28 20:24	0°♎		desc. node	11293 May 26 16:48	6°♎55'40		
	11290 Oct 23 04:06	0°♎			11293 Jun 14 14:42	0°♎		
	11290 Nov 16 17:18	0°♎			11293 Jul 08 22:08	0°♎		
desc. node	11290 Dec 09 14:15	27°♎36'48			11293 Aug 02 02:04	0°♎		
	11290 Dec 11 14:03	0°♎			11293 Aug 26 05:20	0°♎		
	11291 Jan 05 20:32	0°♎		morning set	11293 Sep 13 20:42	23°♎08'54		
	11291 Jan 31 16:34	0°♎		asc. node	11293 Sep 16 09:55	26°♎18'53		
	11291 Feb 27 13:59	0°♎			11293 Sep 19 09:11	0°♎		
evening max el	11291 Mar 17 16:57	18°♎49'38 46°28'36			11293 Oct 13 13:54	0°♎		
	11291 Mar 29 12:54	0°♎						
asc. node	11291 Apr 01 13:56	2°♎39'39		superior conj	11293 Oct 21 18:50	10°♎09'50 1°12'21		
greatest brilliancy	11291 Apr 27 01:12	19°♎04'50 -4.9m		minimum elong	11293 Oct 21 09:48	9°♎41'52 1°12'31		
retrograde	11291 May 06 15:39	20°♎48'40		max. Earth dist.	11293 Oct 23 10:50	12°♎13'37 1.72868 AU		
evening set	11291 May 24 20:17	14°♎31'56			11293 Nov 06 19:44	0°♎		
inferior conj	11291 May 27 07:51	13°♎00'32 9°13'57		evening rise	11293 Nov 27 13:38	25°♎35'50		
minimum elong	11291 May 27 07:34	13°♎00'58 9°13'19			11293 Dec 01 03:28	0°♎		
min. Earth dist.	11291 May 27 12:08	12°♎53'54 0.27257 AU			11293 Dec 25 14:00	0°♎		
morning rise	11291 May 29 18:50	11°♎29'56		desc. node	11294 Jan 06 02:11	14°♎04'05		
direct	11291 Jun 17 02:06	5°♎08'53			11294 Jan 19 03:41	0°♎		
greatest brilliancy	11291 Jun 26 21:06	6°♎57'23 -4.9m			11294 Feb 12 20:20	0°♎		
desc. node	11291 Jul 22 13:55	23°♎46'51			11294 Mar 09 16:30	0°♎		
	11291 Jul 29 10:51	0°♎			11294 Apr 03 19:35	0°♎		
morning max el	11291 Aug 06 10:59	7°♎46'31 46°49'13		asc. node	11294 Apr 29 00:06	29°♎17'02		
	11291 Aug 27 12:37	0°♎			11294 Apr 29 15:14	0°♎		
	11291 Sep 23 01:12	0°♎			11294 May 27 05:57	0°♎		
	11291 Oct 18 15:47	0°♎		evening max el	11294 May 29 16:48	2°♎28'57 46°51'41		
asc. node	11291 Nov 12 10:53	29°♎35'58			11294 Jul 01 23:32	0°♎		
	11291 Nov 12 18:53	0°♎		greatest brilliancy	11294 Jul 08 19:18	3°♎11'36 -4.9m		
	11291 Dec 07 14:10	0°♎		retrograde	11294 Jul 19 02:45	5°♎11'54		
	11292 Jan 01 03:46	0°♎		evening set	11294 Aug 03 03:24	0°♎45'49		
	11292 Jan 25 13:28	0°♎			11294 Aug 04 12:09	30°♎		
morning set	11292 Feb 02 18:05	10°♎06'20		inferior conj	11294 Aug 08 22:43	27°♎20'32 2°34'05		
	11292 Feb 18 20:27	0°♎		minimum elong	11294 Aug 09 04:31	27°♎11'41 2°31'51		
desc. node	11292 Mar 03 02:30	16°♎25'06		min. Earth dist.	11294 Aug 08 20:29	27°♎23'57 0.27167 AU		
max. Earth dist.	11292 Mar 09 00:48	23°♎46'36 1.72407 AU		morning rise	11294 Aug 15 05:52	23°♎39'36		
				desc. node	11294 Aug 19 00:19	21°♎51'11		
superior conj	11292 Mar 12 02:23	27°♎35'01 -0°21'38		direct	11294 Aug 29 16:34	19°♎33'36		
minimum elong	11292 Mar 11 21:19	27°♎19'16 0°21'18		greatest brilliancy	11294 Sep 08 14:55	21°♎22'35 -4.8m		
	11292 Mar 14 01:04	0°♎			11294 Sep 24 08:34	0°♎		
	11292 Apr 07 03:16	0°♎		morning max el	11294 Oct 18 02:20	20°♎22'29 46°05'19		
evening rise	11292 Apr 20 06:53	16°♎25'18			11294 Oct 27 17:58	0°♎		
	11292 May 01 03:30	0°♎			11294 Nov 24 14:07	0°♎		
	11292 May 25 03:13	0°♎		asc. node	11294 Dec 09 23:26	17°♎29'24		
	11292 Jun 18 04:43	0°♎			11294 Dec 20 18:12	0°♎		
asc. node	11292 Jun 23 20:34	7°♎01'38			11295 Jan 15 01:54	0°♎		
	11292 Jul 12 10:47	0°♎			11295 Feb 08 21:29	0°♎		
	11292 Aug 06 00:59	0°♎			11295 Mar 05 09:25	0°♎		
	11292 Aug 31 05:24	0°♎			11295 Mar 29 16:00	0°♎		
	11292 Sep 26 13:18	0°♎		desc. node	11295 Mar 31 16:13	2°♎29'41		
desc. node	11292 Oct 13 18:30	18°♎19'19		morning set	11295 Apr 15 22:08	21°♎27'53		
evening max el	11292 Oct 21 20:44	26°♎22'53 45°54'57			11295 Apr 22 18:15	0°♎		
	11292 Oct 25 15:45	0°♎			11295 May 16 17:13	0°♎		
greatest brilliancy	11292 Nov 30 01:38	24°♎55'10 -4.7m		max. Earth dist.	11295 May 24 21:36	10°♎16'21 1.71381 AU		
retrograde	11292 Dec 09 21:06	26°♎40'28						
evening set	11292 Dec 27 05:40	20°♎59'50		superior conj	11295 May 26 05:39	11°♎56'59 -1°27'37		
inferior conj	11292 Dec 31 08:31	18°♎27'31 -7°10'18		minimum elong	11295 May 26 05:01	11°♎55'00 1°28'16		
minimum elong	11292 Dec 31 18:07	18°♎12'25 7°07'59			11295 Jun 09 14:28	0°♎		
min. Earth dist.	11292 Dec 31 20:56	18°♎07'58 0.28876 AU			11295 Jul 03 12:00	0°♎		
morning rise	11293 Jan 05 06:18	15°♎26'37		evening rise	11295 Jul 05 15:38	2°♎41'47		
direct	11293 Jan 21 18:20	10°♎11'29		asc. node	11295 Jul 22 09:01	23°♎37'04		
greatest brilliancy	11293 Feb 01 17:06	12°♎22'19 -4.8m			11295 Jul 27 11:43	0°♎		
asc. node	11293 Feb 03 19:36	13°♎14'08			11295 Aug 20 15:10	0°♎		
	11293 Feb 28 01:01	0°♎			11295 Sep 14 00:12	0°♎		
morning max el	11293 Mar 12 07:01	11°♎27'36 46°09'01			11295 Oct 08 18:01	0°♎		

	11295 Nov 03 02:03	0°♁			11298 May 07 03:06	0°♁	
desc. node	11295 Nov 11 04:57	9°♁24'13			11298 May 31 05:18	0°♁	
	11295 Nov 29 09:59	0°♁			11298 Jun 24 04:18	0°♁	
	11295 Dec 27 17:48	0°♁		morning set	11298 Jun 30 11:22	7°♁53'38	
evening max el	11296 Jan 02 03:52	5°♁18'17 45°54'14			11298 Jul 18 02:30	0°♁	
	11296 Feb 02 00:32	0°♁					
greatest brilliancy	11296 Feb 10 06:45	3°♁47'54 -4.8m	superior conj		11298 Aug 09 02:19	27°♁31'56 -0°23'41	
retrograde	11296 Feb 20 04:39	5°♁35'50	minimum elong		11298 Aug 09 08:06	27°♁50'02 0°23'50	
asc. node	11296 Mar 03 06:01	2°♁41'32			11298 Aug 11 01:42	0°♁	
evening set	11296 Mar 05 19:21	1°♁24'01	max. Earth dist.		11298 Aug 11 19:20	0°♁55'06 1.71803 AU	
	11296 Mar 08 06:38	30°♁	asc. node		11298 Aug 18 22:14	9°♁48'46	
inferior conj	11296 Mar 12 03:05	27°♁38'51 2°13'27			11298 Sep 04 02:55	0°♁	
minimum elong	11296 Mar 11 22:06	27°♁46'36 2°12'01	evening rise		11298 Sep 16 21:28	15°♁52'32	
min. Earth dist.	11296 Mar 12 08:11	27°♁30'56 0.27751 AU			11298 Sep 28 06:53	0°♁	
morning rise	11296 Mar 18 00:30	24°♁07'19			11298 Oct 22 14:45	0°♁	
direct	11296 Apr 02 04:40	19°♁35'41			11298 Nov 16 04:16	0°♁	
greatest brilliancy	11296 Apr 12 15:41	21°♁39'10 -4.8m	desc. node		11298 Dec 08 16:04	27°♁07'54	
	11296 Apr 27 10:39	0°♁			11298 Dec 11 01:35	0°♁	
morning max el	11296 May 22 13:48	22°♁13'53 46°51'35			11299 Jan 05 08:59	0°♁	
	11296 May 30 03:11	0°♁			11299 Jan 31 06:42	0°♁	
desc. node	11296 Jun 23 04:51	26°♁32'02			11299 Feb 27 07:43	0°♁	
	11296 Jun 26 05:25	0°♁	evening max el		11299 Mar 15 05:11	16°♁25'03 46°27'13	
	11296 Jul 21 18:13	0°♁			11299 Mar 29 19:13	0°♁	
	11296 Aug 15 15:46	0°♁	asc. node		11299 Mar 31 16:00	1°♁35'07	
	11296 Sep 09 06:58	0°♁	greatest brilliancy		11299 Apr 24 14:25	16°♁41'08 -4.9m	
	11296 Oct 03 19:18	0°♁	retrograde		11299 May 04 04:00	18°♁24'36	
asc. node	11296 Oct 13 23:36	12°♁29'19	evening set		11299 May 22 07:40	12°♁10'09	
	11296 Oct 28 05:43	0°♁	inferior conj		11299 May 24 20:51	10°♁36'22 9°12'59	
	11296 Nov 21 14:29	0°♁	minimum elong		11299 May 24 19:32	10°♁38'23 9°12'21	
morning set	11296 Nov 22 17:42	1°♁23'52	min. Earth dist.		11299 May 25 01:02	10°♁29'54 0.27270 AU	
	11296 Dec 15 22:15	0°♁	morning rise		11299 May 27 07:23	9°♁06'24	
			direct		11299 Jun 14 14:33	2°♁44'09	
superior conj	11296 Dec 29 08:59	16°♁35'21 1°12'01	greatest brilliancy		11299 Jun 24 10:51	4°♁33'28 -4.9m	
minimum elong	11296 Dec 29 17:55	17°♁02'51 1°12'27	desc. node		11299 Jul 21 15:54	22°♁43'39	
max. Earth dist.	11296 Dec 29 10:13	16°♁39'08 1.73190 AU			11299 Jul 29 12:36	0°♁	
	11297 Jan 09 05:52	0°♁	morning max el		11299 Aug 03 23:41	5°♁21'40 46°50'31	
desc. node	11297 Feb 02 15:00	0°♁04'08			11299 Aug 27 05:27	0°♁	
	11297 Feb 02 13:39	0°♁			11299 Sep 22 15:00	0°♁	
evening rise	11297 Feb 05 00:39	3°♁01'57			11299 Oct 18 04:04	0°♁	
	11297 Feb 26 21:12	0°♁	asc. node		11299 Nov 11 12:45	29°♁07'14	
	11297 Mar 23 04:04	0°♁			11299 Nov 12 06:18	0°♁	
	11297 Apr 16 10:57	0°♁			11299 Dec 07 01:05	0°♁	
	11297 May 10 20:20	0°♁			11299 Dec 31 14:25	0°♁	
asc. node	11297 May 26 10:51	19°♁01'28			11300 Jan 24 23:59	0°♁	
	11297 Jun 04 12:48	0°♁	morning set		11300 Jan 31 10:19	7°♁55'54	
	11297 Jun 29 20:10	0°♁			11300 Feb 18 06:56	0°♁	
	11297 Jul 26 11:38	0°♁	desc. node		11300 Mar 03 04:30	15°♁58'42	
evening max el	11297 Aug 09 15:12	14°♁43'56 46°30'00	max. Earth dist.		11300 Mar 07 17:25	21°♁36'33 1.72451 AU	
	11297 Aug 26 03:12	0°♁					
desc. node	11297 Sep 15 10:31	13°♁33'43	superior conj		11300 Mar 10 16:21	25°♁16'44 -0°18'05	
greatest brilliancy	11297 Sep 17 13:14	14°♁26'30 -4.8m	minimum elong		11300 Mar 10 12:06	25°♁03'32 0°17'46	
retrograde	11297 Sep 28 14:36	16°♁40'37			11300 Mar 14 11:35	0°♁	
evening set	11297 Oct 15 03:23	11°♁24'36			11300 Apr 07 13:52	0°♁	
min. Earth dist.	11297 Oct 19 04:00	8°♁57'42 0.28531 AU	evening rise		11300 Apr 18 19:38	14°♁01'55	
inferior conj	11297 Oct 19 23:30	8°♁27'14 -7°15'49			11300 May 01 14:14	0°♁	
minimum elong	11297 Oct 19 13:53	8°♁42'16 7°13'49			11300 May 25 14:07	0°♁	
morning rise	11297 Oct 24 00:48	5°♁58'31			11300 Jun 18 15:52	0°♁	
direct	11297 Nov 10 06:34	0°♁23'28	asc. node		11300 Jun 23 22:25	6°♁32'37	
greatest brilliancy	11297 Nov 19 20:56	2°♁04'10 -4.7m			11300 Jul 12 22:18	0°♁	
	11297 Dec 28 16:18	0°♁			11300 Aug 06 13:07	0°♁	
morning max el	11297 Dec 29 01:43	0°♁22'39 45°41'46			11300 Aug 31 18:40	0°♁	
asc. node	11298 Jan 06 10:53	8°♁40'55			11300 Sep 27 05:04	0°♁	
	11298 Jan 26 11:34	0°♁	desc. node		11300 Oct 13 20:32	17°♁35'52	
	11298 Feb 21 19:38	0°♁	evening max el		11300 Oct 20 11:14	24°♁09'31 45°55'53	
	11298 Mar 19 02:18	0°♁			11300 Oct 26 15:33	0°♁	
	11298 Apr 12 19:06	0°♁	greatest brilliancy		11300 Nov 28 16:16	22°♁44'58 -4.7m	
desc. node	11298 Apr 28 05:41	18°♁59'50	retrograde		11300 Dec 08 13:15	24°♁31'46	



evening set	11300 Dec 26 00:23	18° $\text{Z}$ 46'21		superior conj	11303 May 24 17:07	9° $\text{II}$ 28'20	-1°27'26
inferior conj	11300 Dec 30 00:39	16° $\text{Z}$ 17'59	-7°21'20	minimum elong	11303 May 24 15:25	9° $\text{II}$ 23'01	1°28'03
minimum elong	11300 Dec 30 09:58	16° $\text{Z}$ 03'22	7°19'10		11303 Jun 10 01:16	0° $\text{G}$	
min. Earth dist.	11300 Dec 30 12:18	15° $\text{Z}$ 59'43	0.28909 AU		11303 Jul 03 22:51	0° $\Omega$	
morning rise	11301 Jan 03 19:21	13° $\text{Z}$ 21'54		evening rise	11303 Jul 04 02:47	0° $\Omega$ 12'18	
direct	11301 Jan 20 10:29	8° $\text{Z}$ 01'36		asc. node	11303 Jul 22 10:59	23° $\Omega$ 09'09	
greatest brilliancy	11301 Jan 31 09:13	10° $\text{Z}$ 12'31	-4.8m		11303 Jul 27 22:40	0° $\text{M}$	
asc. node	11301 Feb 03 21:42	11° $\text{Z}$ 43'13			11303 Aug 21 02:16	0° $\text{L}$	
	11301 Mar 01 04:06	0° $\approx$			11303 Sep 14 11:36	0° $\text{M}$	
morning max el	11301 Mar 10 23:08	9° $\approx$ 15'55	46°07'28		11303 Oct 09 05:58	0° $\text{X}$	
	11301 Mar 30 19:20	0° $\text{H}$			11303 Nov 03 15:03	0° $\text{Z}$	
	11301 Apr 26 06:03	0° $\text{Y}$		desc. node	11303 Nov 11 06:49	8° $\text{Z}$ 50'53	
	11301 May 21 11:40	0° $\text{B}$			11303 Nov 30 01:09	0° $\approx$	
desc. node	11301 May 26 18:40	6° $\text{B}$ 24'07			11303 Dec 28 14:46	0° $\text{H}$	
	11301 Jun 15 02:28	0° $\text{II}$		evening max el	11303 Dec 31 19:26	3° $\text{H}$ 06'12	45°53'36
	11301 Jul 09 09:27	0° $\text{G}$			11304 Feb 05 01:29	0° $\text{Y}$	
	11301 Aug 02 13:04	0° $\Omega$		greatest brilliancy	11304 Feb 08 21:26	1° $\text{Y}$ 32'11	-4.8m
	11301 Aug 26 16:07	0° $\text{M}$		retrograde	11304 Feb 18 18:45	3° $\text{Y}$ 19'14	
morning set	11301 Sep 12 11:28	20° $\text{M}$ 52'41			11304 Mar 02 17:31	30° $\text{R}$ $\text{H}$	
asc. node	11301 Sep 16 11:50	25° $\text{M}$ 51'48		asc. node	11304 Mar 03 07:59	29° $\text{H}$ 41'50	
	11301 Sep 19 19:48	0° $\text{L}$		evening set	11304 Mar 04 09:44	29° $\text{H}$ 07'57	
	11301 Oct 14 00:24	0° $\text{M}$		inferior conj	11304 Mar 10 17:44	25° $\text{H}$ 21'59	1°51'38
				minimum elong	11304 Mar 10 13:32	25° $\text{H}$ 28'32	1°50'26
superior conj	11301 Oct 20 11:23	8° $\text{M}$ 00'04	1°10'29	min. Earth dist.	11304 Mar 10 23:25	25° $\text{H}$ 13'09	0.27781 AU
minimum elong	11301 Oct 20 02:03	7° $\text{M}$ 31'09	1°10'35	morning rise	11304 Mar 16 17:00	21° $\text{H}$ 47'33	
max. Earth dist.	11301 Oct 22 04:23	10° $\text{M}$ 06'59	1.72839 AU	direct	11304 Mar 31 19:52	17° $\text{H}$ 18'34	
	11301 Nov 07 06:11	0° $\text{X}$		greatest brilliancy	11304 Apr 11 07:12	19° $\text{H}$ 22'00	-4.8m
evening rise	11301 Nov 26 06:44	23° $\text{X}$ 28'30			11304 Apr 29 03:23	0° $\text{Y}$	
	11301 Dec 01 13:58	0° $\text{Z}$		morning max el	11304 May 21 03:44	19° $\text{Y}$ 52'57	46°50'20
	11301 Dec 26 00:40	0° $\approx$			11304 May 30 22:35	0° $\text{B}$	
desc. node	11302 Jan 06 04:09	13° $\approx$ 37'06		desc. node	11304 Jun 23 06:50	25° $\text{B}$ 53'29	
	11302 Jan 19 14:41	0° $\text{H}$			11304 Jun 26 20:32	0° $\text{II}$	
	11302 Feb 13 07:52	0° $\text{Y}$			11304 Jul 22 07:31	0° $\text{G}$	
	11302 Mar 10 04:48	0° $\text{B}$			11304 Aug 16 04:06	0° $\Omega$	
	11302 Apr 04 09:07	0° $\text{II}$			11304 Sep 09 18:39	0° $\text{M}$	
asc. node	11302 Apr 29 02:00	28° $\text{II}$ 37'44			11304 Oct 04 06:31	0° $\text{L}$	
	11302 Apr 30 07:06	0° $\text{G}$		asc. node	11304 Oct 14 01:24	12° $\text{L}$ 00'49	
	11302 May 28 03:54	0° $\Omega$			11304 Oct 28 16:37	0° $\text{M}$	
evening max el	11302 May 28 07:09	0° $\Omega$ 08'10	46°51'44	morning set	11304 Nov 21 10:38	29° $\text{M}$ 15'07	
	11302 Jul 05 08:30	0° $\text{M}$			11304 Nov 22 01:12	0° $\text{X}$	
greatest brilliancy	11302 Jul 07 09:15	0° $\text{M}$ 48'52	-4.9m		11304 Dec 16 08:54	0° $\text{Z}$	
retrograde	11302 Jul 17 16:54	2° $\text{M}$ 49'06					
	11302 Jul 29 12:09	30° $\text{R}$ $\Omega$		superior conj	11304 Dec 28 02:06	14° $\text{Z}$ 27'16	1°13'47
evening set	11302 Aug 01 18:55	28° $\Omega$ 20'06		minimum elong	11304 Dec 28 10:41	14° $\text{Z}$ 53'46	1°14'15
inferior conj	11302 Aug 07 11:52	24° $\Omega$ 57'59	2°56'56	max. Earth dist.	11304 Dec 28 03:42	14° $\text{Z}$ 32'11	1.73192 AU
minimum elong	11302 Aug 07 18:27	24° $\Omega$ 47'56	2°54'28		11305 Jan 09 16:32	0° $\approx$	
min. Earth dist.	11302 Aug 07 10:16	25° $\Omega$ 00'26	0.27146 AU	desc. node	11305 Feb 02 17:01	29° $\approx$ 37'12	
morning rise	11302 Aug 13 18:19	21° $\Omega$ 18'25			11305 Feb 03 00:25	0° $\text{H}$	
desc. node	11302 Aug 19 02:25	18° $\Omega$ 52'53		evening rise	11305 Feb 03 16:32	0° $\text{H}$ 49'42	
direct	11302 Aug 28 06:06	17° $\Omega$ 11'16			11305 Feb 27 08:07	0° $\text{Y}$	
greatest brilliancy	11302 Sep 07 03:46	19° $\Omega$ 00'20	-4.8m		11305 Mar 23 15:15	0° $\text{B}$	
	11302 Sep 26 02:22	0° $\text{M}$			11305 Apr 16 22:31	0° $\text{II}$	
morning max el	11302 Oct 16 17:24	18° $\text{M}$ 07'19	46°06'50		11305 May 11 08:29	0° $\text{G}$	
	11302 Oct 28 13:19	0° $\text{L}$		asc. node	11305 May 26 12:45	18° $\text{G}$ 28'56	
	11302 Nov 25 04:47	0° $\text{M}$			11305 Jun 05 01:52	0° $\Omega$	
asc. node	11302 Dec 10 01:16	16° $\text{M}$ 56'17			11305 Jun 30 10:51	0° $\text{M}$	
	11302 Dec 21 06:53	0° $\text{X}$			11305 Jul 27 06:00	0° $\text{L}$	
	11303 Jan 15 13:34	0° $\text{Z}$		evening max el	11305 Aug 08 05:44	12° $\text{L}$ 25'10	46°31'11
	11303 Feb 09 08:38	0° $\approx$			11305 Aug 27 12:49	0° $\text{M}$	
	11303 Mar 05 20:19	0° $\text{H}$		desc. node	11305 Sep 15 12:29	11° $\text{M}$ 55'46	
	11303 Mar 30 02:48	0° $\text{Y}$		greatest brilliancy	11305 Sep 16 05:19	12° $\text{M}$ 12'26	-4.8m
desc. node	11303 Mar 31 18:06	2° $\text{Y}$ 01'59		retrograde	11305 Sep 27 05:44	14° $\text{M}$ 25'59	
morning set	11303 Apr 14 10:18	19° $\text{Y}$ 02'41		evening set	11305 Oct 13 15:27	9° $\text{M}$ 15'27	
	11303 Apr 23 05:02	0° $\text{B}$		min. Earth dist.	11305 Oct 17 19:09	6° $\text{M}$ 44'09	0.28478 AU
	11303 May 17 04:00	0° $\text{II}$		inferior conj	11305 Oct 18 14:49	6° $\text{M}$ 13'27	-7°04'02
max. Earth dist.	11303 May 23 06:03	7° $\text{II}$ 38'18	1.71397 AU	minimum elong	11305 Oct 18 04:55	6° $\text{M}$ 28'55	7°01'53
				morning rise	11305 Oct 22 18:47	3° $\text{M}$ 40'40	

	11305 Oct 30 05:56	30° $\text{R}\text{U}$		evening rise	11308 Apr 16 08:44	11° $\text{U}\text{S}$ 38'38	
direct	11305 Nov 08 21:11	28° $\text{U}$ 10'33			11308 May 01 01:19	0° $\text{II}$	
greatest brilliancy	11305 Nov 18 11:31	29° $\text{U}$ 50'47 -4.7m			11308 May 25 01:21	0° $\text{U}$	
	11305 Nov 18 22:19	0° $\text{M}$			11308 Jun 18 03:19	0° $\text{Q}$	
morning max el	11305 Dec 27 15:10	28° $\text{M}$ 05'27 45°41'47		asc. node	11308 Jun 23 00:28	6° $\text{Q}$ 03'12	
	11305 Dec 29 14:26	0° $\text{J}$			11308 Jul 12 10:10	0° $\text{M}$	
asc. node	11306 Jan 06 12:59	7° $\text{J}$ 56'54			11308 Aug 06 01:40	0° $\text{U}$	
	11306 Jan 27 03:08	0° $\text{Z}$			11308 Aug 31 08:29	0° $\text{M}$	
	11306 Feb 22 08:55	0° $\approx$			11308 Sep 26 21:40	0° $\text{J}$	
	11306 Mar 19 14:29	0° $\text{H}$		desc. node	11308 Oct 12 22:26	16° $\text{J}$ 49'46	
	11306 Apr 13 06:42	0° $\text{Y}$		evening max el	11308 Oct 18 02:34	21° $\text{J}$ 56'27 45°56'42	
desc. node	11306 Apr 28 07:35	18° $\text{Y}$ 30'29			11308 Oct 26 17:22	0° $\text{Z}$	
	11306 May 07 14:22	0° $\text{U}$		greatest brilliancy	11308 Nov 26 06:31	20° $\text{Z}$ 32'23 -4.7m	
	11306 May 31 16:24	0° $\text{II}$		retrograde	11308 Dec 06 05:32	22° $\text{Z}$ 20'45	
	11306 Jun 24 15:19	0° $\text{U}$		evening set	11308 Dec 23 18:52	16° $\text{Z}$ 30'47	
morning set	11306 Jun 28 23:21	5° $\text{U}$ 26'14		inferior conj	11308 Dec 27 16:33	14° $\text{Z}$ 06'17 -7°31'55	
	11306 Jul 18 13:28	0° $\text{Q}$		minimum elong	11308 Dec 28 01:32	13° $\text{Z}$ 52'12 7°29'52	
				min. Earth dist.	11308 Dec 28 03:07	13° $\text{Z}$ 49'43 0.28936 AU	
superior conj	11306 Aug 07 15:15	25° $\text{Q}$ 08'15 -0°27'18		morning rise	11309 Jan 01 08:03	11° $\text{Z}$ 15'09	
minimum elong	11306 Aug 07 21:51	25° $\text{Q}$ 28'53 0°27'25		direct	11309 Jan 18 02:49	5° $\text{Z}$ 49'47	
max. Earth dist.	11306 Aug 10 04:57	28° $\text{Q}$ 21'06 1.71768 AU		greatest brilliancy	11309 Jan 29 00:25	8° $\text{Z}$ 00'03 -4.8m	
	11306 Aug 11 12:36	0° $\text{M}$		asc. node	11309 Feb 02 23:41	10° $\text{Z}$ 13'34	
asc. node	11306 Aug 19 00:10	9° $\text{M}$ 20'42			11309 Mar 01 06:13	0° $\approx$	
	11306 Sep 04 13:49	0° $\text{U}$		morning max el	11309 Mar 08 15:31	7° $\approx$ 03'49 46°06'00	
evening rise	11306 Sep 15 12:30	13° $\text{U}$ 36'20			11309 Mar 30 12:07	0° $\text{H}$	
	11306 Sep 28 17:51	0° $\text{M}$			11309 Apr 25 20:03	0° $\text{Y}$	
	11306 Oct 23 01:51	0° $\text{J}$			11309 May 21 00:23	0° $\text{U}$	
	11306 Nov 16 15:41	0° $\text{Z}$		desc. node	11309 May 25 20:37	5° $\text{U}$ 52'00	
desc. node	11306 Dec 08 18:04	26° $\text{Z}$ 38'21			11309 Jun 14 14:28	0° $\text{II}$	
	11306 Dec 11 13:32	0° $\approx$			11309 Jul 08 20:59	0° $\text{U}$	
	11307 Jan 05 21:54	0° $\text{H}$			11309 Aug 02 00:18	0° $\text{Q}$	
	11307 Jan 31 21:23	0° $\text{Y}$			11309 Aug 26 03:07	0° $\text{M}$	
	11307 Feb 28 02:15	0° $\text{U}$		morning set	11309 Sep 10 02:29	18° $\text{M}$ 36'22	
evening max el	11307 Mar 13 17:50	14° $\text{U}$ 00'58 46°26'03		asc. node	11309 Sep 15 13:37	25° $\text{M}$ 23'33	
	11307 Mar 31 04:19	0° $\text{II}$			11309 Sep 19 06:40	0° $\text{U}$	
asc. node	11307 Mar 31 17:57	0° $\text{II}$ 28'01			11309 Oct 13 11:11	0° $\text{M}$	
greatest brilliancy	11307 Apr 23 03:27	14° $\text{II}$ 17'10 -4.9m					
retrograde	11307 May 02 17:05	16° $\text{II}$ 01'04		superior conj	11309 Oct 18 03:50	5° $\text{M}$ 49'00 1°08'29	
evening set	11307 May 20 18:47	9° $\text{II}$ 49'26		minimum elong	11309 Oct 17 18:15	5° $\text{M}$ 19'17 1°08'32	
inferior conj	11307 May 23 10:10	8° $\text{II}$ 12'29 9°11'02		max. Earth dist.	11309 Oct 19 23:22	8° $\text{M}$ 03'48 1.72817 AU	
minimum elong	11307 May 23 07:53	8° $\text{II}$ 16'01 9°10'20			11309 Nov 06 16:57	0° $\text{J}$	
min. Earth dist.	11307 May 23 13:59	8° $\text{II}$ 06'36 0.27285 AU		evening rise	11309 Nov 23 23:36	21° $\text{J}$ 19'16	
morning rise	11307 May 25 20:56	6° $\text{II}$ 42'16			11309 Dec 01 00:49	0° $\text{Z}$	
direct	11307 Jun 13 03:32	0° $\text{II}$ 19'39			11309 Dec 25 11:44	0° $\approx$	
greatest brilliancy	11307 Jun 23 00:37	2° $\text{II}$ 09'43 -4.9m		desc. node	11310 Jan 05 06:05	13° $\approx$ 08'56	
desc. node	11307 Jul 21 18:01	21° $\text{II}$ 41'49			11310 Jan 19 02:05	0° $\text{H}$	
	11307 Jul 30 13:17	0° $\text{U}$			11310 Feb 12 19:45	0° $\text{Y}$	
morning max el	11307 Aug 02 13:25	2° $\text{U}$ 58'41 46°51'29			11310 Mar 09 17:27	0° $\text{U}$	
	11307 Aug 27 22:20	0° $\text{Q}$			11310 Apr 03 23:02	0° $\text{II}$	
	11307 Sep 23 05:07	0° $\text{M}$		asc. node	11310 Apr 28 03:58	27° $\text{II}$ 57'32	
	11307 Oct 18 16:47	0° $\text{U}$			11310 Apr 29 23:31	0° $\text{U}$	
asc. node	11307 Nov 11 14:40	28° $\text{U}$ 37'07		evening max el	11310 May 25 22:01	27° $\text{U}$ 47'56 46°51'42	
	11307 Nov 12 18:11	0° $\text{M}$			11310 May 28 03:03	0° $\text{Q}$	
	11307 Dec 07 12:28	0° $\text{J}$		greatest brilliancy	11310 Jul 04 23:39	28° $\text{Q}$ 26'10 -4.9m	
	11308 Jan 01 01:28	0° $\text{Z}$			11310 Jul 10 15:05	0° $\text{M}$	
	11308 Jan 25 10:52	0° $\approx$		retrograde	11310 Jul 15 07:02	0° $\text{M}$ 25'36	
morning set	11308 Jan 30 02:34	5° $\approx$ 44'23			11310 Jul 19 20:30	30° $\text{R}\text{Q}$	
	11308 Feb 18 17:47	0° $\text{H}$		evening set	11310 Jul 30 10:42	25° $\text{Q}$ 53'54	
desc. node	11308 Mar 02 06:19	15° $\text{H}$ 30'39		inferior conj	11310 Aug 05 01:05	22° $\text{Q}$ 34'59 3°19'32	
max. Earth dist.	11308 Mar 05 11:46	19° $\text{H}$ 30'47 1.72490 AU		minimum elong	11310 Aug 05 08:24	22° $\text{Q}$ 23'47 3°16'50	
				min. Earth dist.	11310 Aug 05 00:06	22° $\text{Q}$ 36'29 0.27124 AU	
superior conj	11308 Mar 08 06:27	22° $\text{H}$ 57'42 -0°14'32		morning rise	11310 Aug 11 06:31	18° $\text{Q}$ 56'55	
minimum elong	11308 Mar 08 03:02	22° $\text{H}$ 47'06 0°14'12		desc. node	11310 Aug 18 04:18	15° $\text{Q}$ 59'33	
behind sun begin	11308 Mar 07 15:30	22° $\text{H}$ 11'19		direct	11310 Aug 25 19:43	14° $\text{Q}$ 48'45	
behind sun end	11308 Mar 08 14:34	23° $\text{H}$ 22'53		greatest brilliancy	11310 Sep 04 16:19	16° $\text{Q}$ 37'14 -4.8m	
	11308 Mar 13 22:28	0° $\text{Y}$			11310 Sep 26 15:46	0° $\text{M}$	
	11308 Apr 07 00:51	0° $\text{U}$		morning max el	11310 Oct 14 07:49	15° $\text{M}$ 50'03 46°08'14	

	11310 Oct 28 08:16	0°♄		asc. node	11313 May 25 14:48	17°♄56'57	
	11310 Nov 24 19:26	0°♍			11313 Jun 04 14:55	0°♌	
asc. node	11310 Dec 09 03:20	16°♍23'16			11313 Jun 30 01:35	0°♎	
	11310 Dec 20 19:43	0°♈			11313 Jul 27 00:43	0°♈	
	11311 Jan 15 01:29	0°♊		evening max el	11313 Aug 05 19:37	10°♈05'03	46°32'24
	11311 Feb 08 20:02	0°♋			11313 Aug 28 01:35	0°♍	
	11311 Mar 05 07:28	0°♌		greatest brilliancy	11313 Sep 13 21:14	9°♍58'17	-4.8m
	11311 Mar 29 13:47	0°♍		desc. node	11313 Sep 14 14:29	10°♍14'30	
desc. node	11311 Mar 30 19:54	1°♍33'30		retrograde	11313 Sep 24 20:55	12°♍11'44	
morning set	11311 Apr 11 22:20	16°♍36'38		evening set	11313 Oct 11 03:30	7°♍06'18	
	11311 Apr 22 15:57	0°♎		min. Earth dist.	11313 Oct 15 10:26	4°♍30'40	0.28424 AU
	11311 May 16 14:54	0°♏		inferior conj	11313 Oct 16 06:05	4°♍00'00	-6°51'21
max. Earth dist.	11311 May 20 12:39	4°♏54'08	1.71414 AU	minimum elong	11313 Oct 15 19:58	4°♍15'46	6°49'06
				morning rise	11313 Oct 20 12:49	1°♍23'10	
superior conj	11311 May 22 04:34	6°♏59'22	-1°27'05		11313 Oct 23 00:19	30°♌♄	
minimum elong	11311 May 22 01:48	6°♏50'43	1°27'41	direct	11313 Nov 06 11:20	25°♈57'48	
	11311 Jun 09 12:12	0°♄		greatest brilliancy	11313 Nov 16 02:26	27°♈38'14	-4.7m
evening rise	11311 Jul 01 13:53	27°♄42'12			11313 Nov 21 18:59	0°♍	
	11311 Jul 03 09:51	0°♌		morning max el	11313 Dec 25 05:04	25°♍49'58	45°41'57
asc. node	11311 Jul 21 12:52	22°♌40'37			11313 Dec 29 11:28	0°♈	
	11311 Jul 27 09:44	0°♎		asc. node	11314 Jan 05 14:54	7°♈13'42	
	11311 Aug 20 13:28	0°♈			11314 Jan 26 18:13	0°♊	
	11311 Sep 13 23:05	0°♍			11314 Feb 21 21:53	0°♋	
	11311 Oct 08 18:00	0°♈			11314 Mar 19 02:29	0°♌	
	11311 Nov 03 04:13	0°♊			11314 Apr 12 18:10	0°♍	
desc. node	11311 Nov 10 08:51	8°♊17'36		desc. node	11314 Apr 27 09:33	18°♍01'42	
	11311 Nov 29 16:41	0°♋			11314 May 07 01:33	0°♎	
	11311 Dec 28 12:46	0°♌			11314 May 31 03:24	0°♏	
evening max el	11311 Dec 29 10:05	0°♌51'20	45°52'46		11314 Jun 24 02:10	0°♄	
greatest brilliancy	11312 Feb 06 12:31	29°♌15'56	-4.8m	morning set	11314 Jun 26 10:58	2°♄58'09	
	11312 Feb 08 21:56	0°♍			11314 Jul 18 00:12	0°♌	
retrograde	11312 Feb 16 08:21	1°♍01'41					
	11312 Feb 23 12:30	30°♌♌		superior conj	11314 Aug 05 04:00	22°♌44'37	-0°30'52
evening set	11312 Mar 02 00:06	26°♌50'31		minimum elong	11314 Aug 05 11:22	23°♌07'42	0°30'58
asc. node	11312 Mar 02 09:55	26°♌37'09		max. Earth dist.	11314 Aug 07 13:41	25°♌45'00	1.71733 AU
inferior conj	11312 Mar 08 08:14	23°♌04'19	1°29'27		11314 Aug 10 23:17	0°♎	
minimum elong	11312 Mar 08 04:51	23°♌09'35	1°28'32	asc. node	11314 Aug 18 01:56	8°♎52'52	
min. Earth dist.	11312 Mar 08 14:56	22°♌53'53	0.27812 AU		11314 Sep 04 00:29	0°♈	
morning rise	11312 Mar 14 09:09	19°♌27'05		evening rise	11314 Sep 13 03:34	11°♈20'54	
direct	11312 Mar 29 10:18	15°♌00'27			11314 Sep 28 04:34	0°♍	
greatest brilliancy	11312 Apr 08 23:09	17°♌04'36	-4.8m		11314 Oct 22 12:44	0°♈	
	11312 Apr 29 16:05	0°♍			11314 Nov 16 02:51	0°♊	
morning max el	11312 May 18 16:54	17°♍29'48	46°49'14	desc. node	11314 Dec 07 20:04	26°♊09'33	
	11312 May 30 17:31	0°♎			11314 Dec 11 01:15	0°♋	
desc. node	11312 Jun 22 08:54	25°♎15'29			11315 Jan 05 10:36	0°♌	
	11312 Jun 26 11:26	0°♏			11315 Jan 31 11:56	0°♍	
	11312 Jul 21 20:42	0°♄			11315 Feb 27 21:01	0°♎	
	11312 Aug 15 16:20	0°♌		evening max el	11315 Mar 11 07:10	11°♎39'22	46°24'41
	11312 Sep 09 06:16	0°♎		asc. node	11315 Mar 30 19:56	29°♎19'27	
	11312 Oct 03 17:41	0°♈			11315 Mar 31 16:26	0°♏	
asc. node	11312 Oct 13 03:20	11°♈32'51		greatest brilliancy	11315 Apr 20 15:36	11°♏52'10	-4.9m
	11312 Oct 28 03:27	0°♍		retrograde	11315 Apr 30 06:19	13°♏37'04	
morning set	11312 Nov 19 03:41	27°♍06'53		evening set	11315 May 18 05:00	7°♏28'59	
	11312 Nov 21 11:51	0°♈		inferior conj	11315 May 20 23:10	5°♏47'59	9°07'56
	11312 Dec 15 19:29	0°♊		minimum elong	11315 May 20 19:55	5°♏52'59	9°07'11
				min. Earth dist.	11315 May 21 02:22	5°♏43'03	0.27301 AU
superior conj	11312 Dec 25 19:19	12°♊19'43	1°15'26	morning rise	11315 May 23 10:49	4°♏16'36	
minimum elong	11312 Dec 26 03:31	12°♊45'02	1°15'55		11315 May 31 14:47	30°♌♎	
max. Earth dist.	11312 Dec 25 21:01	12°♊24'59	1.73200 AU	direct	11315 Jun 10 16:46	27°♎54'38	
	11313 Jan 09 03:10	0°♋		greatest brilliancy	11315 Jun 20 13:40	29°♎45'00	-4.9m
evening rise	11313 Feb 01 08:21	28°♋37'22			11315 Jun 21 06:01	0°♏	
desc. node	11313 Feb 01 18:51	29°♋09'42		desc. node	11315 Jul 20 19:52	20°♏41'06	
	11313 Feb 02 11:10	0°♌			11315 Jul 30 12:41	0°♄	
	11313 Feb 26 19:04	0°♍		morning max el	11315 Jul 31 03:55	0°♄38'04	46°52'34
	11313 Mar 23 02:28	0°♎			11315 Aug 27 14:38	0°♌	
	11313 Apr 16 10:07	0°♏			11315 Sep 22 18:46	0°♎	
	11313 May 10 20:38	0°♄			11315 Oct 18 05:05	0°♈	

asc. node	11315 Nov 10 16:37	28°♌08'14		evening max el	11318 May 23 12:24	25°♊27'43	46°51'20
	11315 Nov 12 05:41	0°♌			11318 May 28 02:46	0°♌	
	11315 Dec 06 23:27	0°♌		greatest brilliancy	11318 Jul 02 14:25	26°♌04'37	-4.9m
	11315 Dec 31 12:09	0°♊		retrograde	11318 Jul 12 20:30	28°♌02'22	
	11316 Jan 24 21:23	0°♊		evening set	11318 Jul 28 02:29	23°♌27'53	
morning set	11316 Jan 27 19:13	3°♊35'14		inferior conj	11318 Aug 02 14:10	20°♌12'24	3°41'51
	11316 Feb 18 04:15	0°♌		minimum elong	11318 Aug 02 22:11	20°♌00'07	3°38'57
desc. node	11316 Mar 01 08:10	15°♌03'49		min. Earth dist.	11318 Aug 02 14:09	20°♌12'25	0.27108 AU
max. Earth dist.	11316 Mar 03 06:46	17°♌28'17	1.72529 AU	morning rise	11318 Aug 08 18:15	16°♌35'52	
				desc. node	11318 Aug 17 06:19	13°♌11'33	
superior conj	11316 Mar 05 20:50	20°♌40'48	-0°10'59	direct	11318 Aug 23 08:54	12°♌26'30	
minimum elong	11316 Mar 05 18:16	20°♌32'49	0°10'41	greatest brilliancy	11318 Sep 02 05:15	14°♌14'39	-4.8m
behind sun begin	11316 Mar 04 23:53	19°♌35'46			11318 Sep 27 01:30	0°♌	
behind sun end	11316 Mar 06 12:39	21°♌29'53		morning max el	11318 Oct 11 21:18	13°♌30'53	46°09'44
	11316 Mar 13 08:59	0°♌			11318 Oct 28 02:28	0°♌	
	11316 Apr 06 11:29	0°♌			11318 Nov 24 09:37	0°♌	
evening rise	11316 Apr 13 22:00	9°♌16'52		asc. node	11318 Dec 08 05:14	15°♌50'54	
	11316 Apr 30 12:06	0°♌			11318 Dec 20 08:08	0°♌	
	11316 May 24 12:20	0°♌			11319 Jan 14 12:58	0°♌	
	11316 Jun 17 14:34	0°♌			11319 Feb 08 07:03	0°♌	
asc. node	11316 Jun 22 02:19	5°♌33'55			11319 Mar 04 18:14	0°♌	
	11316 Jul 11 21:49	0°♌			11319 Mar 29 00:25	0°♌	
	11316 Aug 05 14:00	0°♌		desc. node	11319 Mar 29 21:54	1°♌06'38	
	11316 Aug 30 22:05	0°♌		morning set	11319 Apr 09 10:46	14°♌12'54	
	11316 Sep 26 14:11	0°♌			11319 Apr 22 02:31	0°♌	
desc. node	11316 Oct 12 00:29	16°♌04'30			11319 May 16 01:27	0°♌	
evening max el	11316 Oct 15 18:40	19°♌46'27	45°57'39	max. Earth dist.	11319 May 17 18:04	2°♌07'25	1.71432 AU
	11316 Oct 26 20:08	0°♌					
greatest brilliancy	11316 Nov 23 20:59	18°♌21'34	-4.7m	superior conj	11319 May 19 16:31	4°♌33'10	-1°26'34
retrograde	11316 Dec 03 21:50	20°♌11'06		minimum elong	11319 May 19 12:44	4°♌21'17	1°27'08
evening set	11316 Dec 21 13:26	14°♌16'58			11319 Jun 08 22:46	0°♌	
inferior conj	11316 Dec 25 08:33	11°♌56'06	-7°41'50	evening rise	11319 Jun 29 01:17	25°♌14'06	
minimum elong	11316 Dec 25 17:09	11°♌42'36	7°39'55		11319 Jul 02 20:30	0°♌	
min. Earth dist.	11316 Dec 25 17:52	11°♌41'28	0.28958 AU	asc. node	11319 Jul 20 14:43	22°♌12'54	
morning rise	11316 Dec 29 20:48	9°♌09'51			11319 Jul 26 20:30	0°♌	
direct	11317 Jan 15 19:30	3°♌39'45			11319 Aug 20 00:25	0°♌	
greatest brilliancy	11317 Jan 26 15:03	5°♌48'26	-4.8m		11319 Sep 13 10:21	0°♌	
asc. node	11317 Feb 02 01:34	8°♌48'10			11319 Oct 08 05:53	0°♌	
	11317 Mar 01 06:23	0°♌			11319 Nov 02 17:15	0°♌	
morning max el	11317 Mar 06 07:47	4°♌53'02	46°04'34	desc. node	11319 Nov 09 10:51	7°♌44'40	
	11317 Mar 30 04:06	0°♌			11319 Nov 29 08:12	0°♌	
	11317 Apr 25 09:27	0°♌		evening max el	11319 Dec 27 00:00	28°♌35'43	45°52'12
	11317 May 20 12:38	0°♌			11319 Dec 28 11:19	0°♌	
desc. node	11317 May 24 22:35	5°♌21'15		greatest brilliancy	11320 Feb 04 03:44	27°♌01'09	-4.8m
	11317 Jun 14 02:04	0°♌		retrograde	11320 Feb 13 22:02	28°♌45'55	
	11317 Jul 08 08:12	0°♌		evening set	11320 Feb 28 14:49	24°♌34'08	
	11317 Aug 01 11:14	0°♌		asc. node	11320 Mar 01 12:00	23°♌30'53	
	11317 Aug 25 13:51	0°♌		inferior conj	11320 Mar 05 22:57	20°♌48'13	1°07'15
morning set	11317 Sep 07 17:06	16°♌19'42		minimum elong	11320 Mar 05 20:23	20°♌52'12	1°06'38
asc. node	11317 Sep 14 15:34	24°♌56'47		min. Earth dist.	11320 Mar 06 06:47	20°♌35'59	0.27845 AU
	11317 Sep 18 17:13	0°♌		morning rise	11320 Mar 12 01:21	17°♌08'32	
	11317 Oct 12 21:37	0°♌		direct	11320 Mar 27 00:45	12°♌43'34	
				greatest brilliancy	11320 Apr 06 15:49	14°♌49'20	-4.8m
superior conj	11317 Oct 15 19:57	3°♌37'55	1°06'22		11320 Apr 30 01:02	0°♌	
minimum elong	11317 Oct 15 10:10	3°♌07'37	1°06'23	morning max el	11320 May 16 06:32	15°♌08'44	46°48'16
max. Earth dist.	11317 Oct 17 19:00	6°♌03'39	1.72785 AU		11320 May 30 11:37	0°♌	
	11317 Nov 06 03:21	0°♌		desc. node	11320 Jun 21 10:42	24°♌37'58	
evening rise	11317 Nov 21 16:22	19°♌10'49			11320 Jun 26 01:51	0°♌	
	11317 Nov 30 11:18	0°♌			11320 Jul 21 09:30	0°♌	
	11317 Dec 24 22:25	0°♌			11320 Aug 15 04:15	0°♌	
desc. node	11318 Jan 04 07:55	12°♌41'33			11320 Sep 08 17:36	0°♌	
	11318 Jan 18 13:07	0°♌			11320 Oct 03 04:38	0°♌	
	11318 Feb 12 07:17	0°♌		asc. node	11320 Oct 12 05:16	11°♌05'28	
	11318 Mar 09 05:44	0°♌			11320 Oct 27 14:08	0°♌	
	11318 Apr 03 12:38	0°♌		morning set	11320 Nov 16 20:27	24°♌58'07	
asc. node	11318 Apr 27 06:02	27°♌18'31			11320 Nov 20 22:22	0°♌	
	11318 Apr 29 15:44	0°♌			11320 Dec 15 05:56	0°♌	

superior conj	11320 Dec 23 12:20	10° $\text{Z}$ 12'01	1°16'58	morning rise	11323 May 21 01:16	1° $\text{II}$ 49'58	
minimum elong	11320 Dec 23 20:07	10° $\text{Z}$ 35'59	1°17'29		11323 May 24 04:58	30° $\text{R}$ $\text{B}$	
max. Earth dist.	11320 Dec 23 14:24	10° $\text{Z}$ 18'21	1.73204 AU	direct	11323 Jun 08 06:33	25° $\text{B}$ 29'44	
	11321 Jan 08 13:38	0° $\approx$		greatest brilliancy	11323 Jun 18 02:22	27° $\text{B}$ 19'37	-4.9m
evening rise	11321 Jan 30 00:07	26° $\approx$ 25'30			11323 Jun 24 02:49	0° $\text{II}$	
desc. node	11321 Jan 31 20:42	28° $\approx$ 42'49		desc. node	11323 Jul 19 21:53	19° $\text{II}$ 41'43	
	11321 Feb 01 21:45	0° $\text{X}$		morning max el	11323 Jul 28 18:52	28° $\text{II}$ 18'11	46°53'29
	11321 Feb 26 05:51	0° $\text{Y}$			11323 Jul 30 11:16	0° $\text{G}$	
	11321 Mar 22 13:33	0° $\text{B}$			11323 Aug 27 06:49	0° $\text{Q}$	
	11321 Apr 15 21:37	0° $\text{II}$			11323 Sep 22 08:28	0° $\text{np}$	
	11321 May 10 08:44	0° $\text{G}$			11323 Oct 17 17:28	0° $\text{L}$	
asc. node	11321 May 24 16:41	17° $\text{G}$ 24'40		asc. node	11323 Nov 09 18:30	27° $\text{L}$ 38'45	
	11321 Jun 04 03:56	0° $\text{Q}$			11323 Nov 11 17:17	0° $\text{M}$	
	11321 Jun 29 16:20	0° $\text{np}$			11323 Dec 06 10:35	0° $\text{X}$	
	11321 Jul 26 19:43	0° $\text{L}$			11323 Dec 30 23:01	0° $\text{Z}$	
evening max el	11321 Aug 03 09:36	7° $\text{L}$ 45'50	46°33'41		11324 Jan 24 08:08	0° $\approx$	
	11321 Aug 28 18:23	0° $\text{M}$		morning set	11324 Jan 25 11:50	1° $\approx$ 25'21	
greatest brilliancy	11321 Sep 11 12:33	7° $\text{M}$ 43'55	-4.8m		11324 Feb 17 14:59	0° $\text{X}$	
desc. node	11321 Sep 13 16:30	8° $\text{M}$ 30'02		desc. node	11324 Feb 29 10:10	14° $\text{X}$ 36'40	
retrograde	11321 Sep 22 12:26	9° $\text{M}$ 58'08		max. Earth dist.	11324 Feb 29 23:19	15° $\text{X}$ 17'24	1.72565 AU
evening set	11321 Oct 08 15:37	4° $\text{M}$ 57'15					
min. Earth dist.	11321 Oct 13 01:35	2° $\text{M}$ 17'44	0.28375 AU	superior conj	11324 Mar 03 11:10	18° $\text{X}$ 22'56	-0°07'24
inferior conj	11321 Oct 13 21:22	1° $\text{M}$ 46'55	-6°37'59	minimum elong	11324 Mar 03 09:27	18° $\text{X}$ 17'38	0°07'07
minimum elong	11321 Oct 13 11:06	2° $\text{M}$ 02'54	6°35'38	behind sun begin	11324 Mar 02 11:29	17° $\text{X}$ 09'32	
	11321 Oct 16 18:43	30° $\text{R}$ $\text{L}$		behind sun end	11324 Mar 04 07:25	19° $\text{X}$ 25'45	
morning rise	11321 Oct 18 06:57	29° $\text{L}$ 06'10			11324 Mar 12 19:47	0° $\text{Y}$	
direct	11321 Nov 04 01:37	23° $\text{L}$ 45'11			11324 Apr 05 22:22	0° $\text{B}$	
greatest brilliancy	11321 Nov 13 17:29	25° $\text{L}$ 26'09	-4.7m	evening rise	11324 Apr 11 11:09	6° $\text{B}$ 54'04	
	11321 Nov 23 12:11	0° $\text{M}$			11324 Apr 29 23:07	0° $\text{II}$	
morning max el	11321 Dec 22 20:02	23° $\text{M}$ 37'09	45°42'06		11324 May 23 23:32	0° $\text{G}$	
	11321 Dec 29 07:46	0° $\text{X}$			11324 Jun 17 02:05	0° $\text{Q}$	
asc. node	11322 Jan 04 16:48	6° $\text{X}$ 31'01		asc. node	11324 Jun 21 04:12	5° $\text{Q}$ 03'57	
	11322 Jan 26 09:06	0° $\text{Z}$			11324 Jul 11 09:47	0° $\text{np}$	
	11322 Feb 21 10:45	0° $\approx$			11324 Aug 05 02:41	0° $\text{L}$	
	11322 Mar 18 14:22	0° $\text{X}$			11324 Aug 30 12:07	0° $\text{M}$	
	11322 Apr 12 05:32	0° $\text{Y}$			11324 Sep 26 07:20	0° $\text{X}$	
desc. node	11322 Apr 26 11:24	17° $\text{Y}$ 32'46		desc. node	11324 Oct 11 02:30	15° $\text{X}$ 17'34	
	11322 May 06 12:39	0° $\text{B}$		evening max el	11324 Oct 13 10:55	17° $\text{X}$ 35'52	45°58'37
	11322 May 30 14:21	0° $\text{II}$			11324 Oct 27 00:59	0° $\text{Z}$	
morning set	11322 Jun 23 22:39	0° $\text{G}$ 30'12		greatest brilliancy	11324 Nov 21 11:56	16° $\text{Z}$ 10'40	-4.7m
	11322 Jun 23 13:01	0° $\text{G}$		retrograde	11324 Dec 01 13:50	18° $\text{Z}$ 00'43	
	11322 Jul 17 10:58	0° $\text{Q}$		evening set	11324 Dec 19 07:57	12° $\text{Z}$ 02'52	
				inferior conj	11324 Dec 23 00:37	9° $\text{Z}$ 45'23	-7°50'57
superior conj	11322 Aug 02 16:50	20° $\text{Q}$ 21'09	-0°34'21	minimum elong	11324 Dec 23 08:46	9° $\text{Z}$ 32'35	7°49'12
minimum elong	11322 Aug 03 00:57	20° $\text{Q}$ 46'33	0°34'28	min. Earth dist.	11324 Dec 23 08:46	9° $\text{Z}$ 32'35	0.28977 AU
max. Earth dist.	11322 Aug 04 23:32	23° $\text{Q}$ 12'16	1.71698 AU	morning rise	11324 Dec 27 09:34	7° $\text{Z}$ 03'50	
	11322 Aug 10 09:58	0° $\text{np}$		direct	11325 Jan 13 12:09	1° $\text{Z}$ 29'16	
asc. node	11322 Aug 17 03:54	8° $\text{np}$ 25'43		greatest brilliancy	11325 Jan 24 05:38	3° $\text{Z}$ 35'56	-4.8m
	11322 Sep 03 11:09	0° $\text{L}$		asc. node	11325 Feb 01 03:41	7° $\text{Z}$ 25'00	
evening rise	11322 Sep 10 18:48	9° $\text{L}$ 06'00			11325 Mar 01 05:54	0° $\approx$	
	11322 Sep 27 15:18	0° $\text{M}$		morning max el	11325 Mar 03 23:25	2° $\approx$ 39'34	46°02'59
	11322 Oct 21 23:38	0° $\text{X}$			11325 Mar 29 20:14	0° $\text{X}$	
	11322 Nov 15 14:06	0° $\text{Z}$			11325 Apr 24 23:11	0° $\text{Y}$	
desc. node	11322 Dec 06 21:52	25° $\text{Z}$ 39'49			11325 May 20 01:12	0° $\text{B}$	
	11322 Dec 10 13:06	0° $\approx$		desc. node	11325 May 24 00:27	4° $\text{B}$ 49'08	
	11323 Jan 04 23:31	0° $\text{X}$			11325 Jun 13 13:59	0° $\text{II}$	
	11323 Jan 31 02:50	0° $\text{Y}$			11325 Jul 07 19:42	0° $\text{G}$	
	11323 Feb 27 16:29	0° $\text{B}$			11325 Jul 31 22:29	0° $\text{Q}$	
evening max el	11323 Mar 08 21:29	9° $\text{B}$ 20'05	46°23'26		11325 Aug 25 00:55	0° $\text{np}$	
asc. node	11323 Mar 29 21:59	28° $\text{B}$ 08'44		morning set	11325 Sep 05 07:36	14° $\text{np}$ 01'34	
	11323 Apr 01 08:51	0° $\text{II}$		asc. node	11325 Sep 13 17:28	24° $\text{np}$ 28'39	
greatest brilliancy	11323 Apr 18 03:25	9° $\text{II}$ 26'55	-4.9m		11325 Sep 18 04:09	0° $\text{L}$	
retrograde	11323 Apr 27 19:54	11° $\text{II}$ 13'00			11325 Oct 12 08:27	0° $\text{M}$	
evening set	11323 May 15 14:50	5° $\text{II}$ 09'15					
inferior conj	11323 May 18 12:13	3° $\text{II}$ 23'23	9°03'49	superior conj	11325 Oct 13 12:03	1° $\text{M}$ 25'31	1°04'08
minimum elong	11323 May 18 08:04	3° $\text{II}$ 29'48	9°03'00	minimum elong	11325 Oct 13 02:09	0° $\text{M}$ 54'52	1°04'07
min. Earth dist.	11323 May 18 14:32	3° $\text{II}$ 19'49	0.27316 AU	max. Earth dist.	11325 Oct 15 13:33	3° $\text{M}$ 58'53	1.72752 AU

	11325 Nov 05 14:09	0°♊		desc. node	11328 Jun 20 12:42	23°♎59'57	
evening rise	11325 Nov 19 09:10	17°♊01'15			11328 Jun 25 16:33	0°♐	
	11325 Nov 29 22:10	0°♑			11328 Jul 20 22:41	0°♑	
	11325 Dec 24 09:29	0°♒			11328 Aug 14 16:33	0°♒	
desc. node	11326 Jan 03 09:53	12°♒13'28			11328 Sep 08 05:19	0°♓	
	11326 Jan 18 00:33	0°♋			11328 Oct 02 15:55	0°♋	
	11326 Feb 11 19:16	0°♌		asc. node	11328 Oct 11 07:03	10°♋36'37	
	11326 Mar 08 18:34	0°♍			11328 Oct 27 01:08	0°♌	
	11326 Apr 03 02:53	0°♎		morning set	11328 Nov 14 13:01	22°♌47'37	
asc. node	11326 Apr 26 07:55	26°♎36'56			11328 Nov 20 09:13	0°♊	
	11326 Apr 29 08:52	0°♏			11328 Dec 14 16:44	0°♑	
evening max el	11326 May 21 01:58	23°♏03'47	46°51'02				
	11326 May 28 04:22	0°♐		superior conj	11328 Dec 21 05:20	8°♑03'08	1°18'23
greatest brilliancy	11326 Jun 30 05:36	23°♐42'01	-4.9m	minimum elong	11328 Dec 21 12:39	8°♑25'40	1°18'57
retrograde	11326 Jul 10 09:23	25°♐37'41		max. Earth dist.	11328 Dec 21 09:01	8°♑14'29	1.73208 AU
evening set	11326 Jul 25 18:22	21°♐00'09			11329 Jan 08 00:27	0°♒	
inferior conj	11326 Jul 31 03:14	17°♐48'29	4°03'41	evening rise	11329 Jan 27 16:02	24°♒13'09	
minimum elong	11326 Jul 31 11:53	17°♐35'14	4°00'39	desc. node	11329 Jan 30 22:41	28°♒15'21	
min. Earth dist.	11326 Jul 31 04:25	17°♐46'40	0.27092 AU		11329 Feb 01 08:40	0°♋	
morning rise	11326 Aug 06 05:41	14°♐13'41			11329 Feb 25 16:57	0°♌	
desc. node	11326 Aug 16 08:24	10°♐27'35			11329 Mar 22 00:56	0°♍	
direct	11326 Aug 20 21:32	10°♐02'43			11329 Apr 15 09:25	0°♎	
greatest brilliancy	11326 Aug 30 18:39	11°♐51'10	-4.8m		11329 May 09 21:08	0°♏	
	11326 Sep 27 09:08	0°♐		asc. node	11329 May 23 18:37	16°♏51'33	
morning max el	11326 Oct 09 10:12	11°♐08'48	46°11'15		11329 Jun 03 17:20	0°♐	
	11326 Oct 27 20:41	0°♑			11329 Jun 29 07:38	0°♑	
	11326 Nov 24 00:04	0°♒			11329 Jul 26 15:45	0°♑	
asc. node	11326 Dec 07 07:05	15°♒17'18		evening max el	11329 Aug 01 00:23	5°♑27'22	46°34'59
	11326 Dec 19 20:53	0°♊			11329 Aug 29 18:07	0°♒	
	11327 Jan 14 00:50	0°♋		greatest brilliancy	11329 Sep 09 03:14	5°♒27'15	-4.8m
	11327 Feb 07 18:27	0°♌		desc. node	11329 Sep 12 18:28	6°♒39'57	
	11327 Mar 04 05:23	0°♍		retrograde	11329 Sep 20 04:14	7°♒42'49	
	11327 Mar 28 11:28	0°♌		evening set	11329 Oct 06 03:39	2°♒46'17	
desc. node	11327 Mar 28 23:44	0°♌38'05		min. Earth dist.	11329 Oct 10 16:15	0°♒03'24	0.28323 AU
morning set	11327 Apr 06 23:10	11°♌47'44			11329 Oct 10 18:26	30°♒♌	
	11327 Apr 21 13:32	0°♍		inferior conj	11329 Oct 11 12:26	29°♌32'04	-6°23'56
max. Earth dist.	11327 May 14 22:44	29°♌16'57	1.71458 AU	minimum elong	11329 Oct 11 02:05	29°♌48'08	6°21'28
	11327 May 15 12:28	0°♎		morning rise	11329 Oct 16 00:55	26°♌47'32	
				direct	11329 Nov 01 16:10	21°♌30'57	
superior conj	11327 May 17 04:13	2°♎04'40	-1°25'51	greatest brilliancy	11329 Nov 11 07:52	23°♌12'08	-4.8m
minimum elong	11327 May 16 23:27	1°♎49'43	1°26'24		11329 Nov 24 17:09	0°♍	
	11327 Jun 08 09:50	0°♏		morning max el	11329 Dec 20 11:32	21°♍24'56	45°42'16
evening rise	11327 Jun 26 12:12	22°♏43'04			11329 Dec 29 03:42	0°♊	
	11327 Jul 02 07:37	0°♐		asc. node	11330 Jan 03 18:54	5°♊48'38	
asc. node	11327 Jul 19 16:41	21°♐44'13			11330 Jan 26 00:01	0°♋	
	11327 Jul 26 07:42	0°♑			11330 Feb 20 23:44	0°♌	
	11327 Aug 19 11:48	0°♒			11330 Mar 18 02:24	0°♍	
	11327 Sep 12 22:05	0°♓			11330 Apr 11 17:03	0°♌	
	11327 Oct 07 18:16	0°♊		desc. node	11330 Apr 25 13:16	17°♌03'28	
	11327 Nov 02 06:53	0°♋			11330 May 05 23:52	0°♍	
desc. node	11327 Nov 08 12:42	7°♋09'50			11330 May 30 01:24	0°♎	
	11327 Nov 29 00:27	0°♌		morning set	11330 Jun 21 10:29	28°♎02'26	
evening max el	11327 Dec 24 13:46	26°♌18'37	45°51'46		11330 Jun 22 23:58	0°♏	
	11327 Dec 28 11:25	0°♍			11330 Jul 16 21:50	0°♐	
greatest brilliancy	11328 Feb 01 18:24	24°♍44'49	-4.8m				
retrograde	11328 Feb 11 12:03	26°♍29'29		superior conj	11330 Jul 31 05:28	17°♐56'31	-0°37'49
evening set	11328 Feb 26 05:44	22°♍16'30		minimum elong	11330 Jul 31 14:17	18°♐24'05	0°37'56
asc. node	11328 Feb 29 13:57	20°♍21'31		max. Earth dist.	11330 Aug 02 11:18	20°♐44'57	1.71670 AU
inferior conj	11328 Mar 03 13:39	18°♍31'11	0°45'08		11330 Aug 09 20:48	0°♑	
minimum elong	11328 Mar 03 11:55	18°♍33'52	0°44'47	asc. node	11330 Aug 16 05:48	7°♑57'50	
min. Earth dist.	11328 Mar 03 22:26	18°♍17'29	0.27881 AU		11330 Sep 02 21:59	0°♒	
morning rise	11328 Mar 09 17:26	14°♍49'36		evening rise	11330 Sep 08 09:39	6°♒49'23	
direct	11328 Mar 24 15:20	10°♍25'43			11330 Sep 27 02:12	0°♓	
greatest brilliancy	11328 Apr 04 08:28	12°♍33'20	-4.8m		11330 Oct 21 10:42	0°♊	
	11328 Apr 30 07:54	0°♌			11330 Nov 15 01:30	0°♋	
morning max el	11328 May 13 20:53	12°♌48'30	46°47'06	desc. node	11330 Dec 05 23:54	25°♋10'19	
	11328 May 30 05:44	0°♍			11330 Dec 10 01:08	0°♌	

	11331 Jan 04 12:39	0° $\text{H}$			11333 May 19 13:26	0° $\text{B}$		
	11331 Jan 30 18:04	0° $\text{Y}$		desc. node	11333 May 23 02:22	4° $\text{B}$ 18'07		
	11331 Feb 27 12:40	0° $\text{B}$			11333 Jun 13 01:36	0° $\text{II}$		
evening max el	11331 Mar 06 12:31	7° $\text{B}$ 02'26	46°22'09		11333 Jul 07 06:54	0° $\text{B}$		
asc. node	11331 Mar 28 23:56	26° $\text{B}$ 55'36			11333 Jul 31 09:23	0° $\text{Q}$		
	11331 Apr 02 07:00	0° $\text{II}$			11333 Aug 24 11:36	0° $\text{M}$		
greatest brilliancy	11331 Apr 15 15:35	7° $\text{II}$ 02'22	-4.9m	morning set	11333 Sep 02 22:26	11° $\text{M}$ 45'31		
retrograde	11331 Apr 25 09:26	8° $\text{II}$ 49'08		asc. node	11333 Sep 12 19:15	24° $\text{M}$ 01'25		
evening set	11331 May 13 00:29	2° $\text{II}$ 50'40			11333 Sep 17 14:41	0° $\text{B}$		
inferior conj	11331 May 16 01:23	0° $\text{II}$ 59'21	8°58'52					
minimum elong	11331 May 15 20:20	1° $\text{II}$ 07'09	8°57'56	superior conj	11333 Oct 11 04:24	29° $\text{B}$ 15'07	1°01'50	
min. Earth dist.	11331 May 16 02:50	0° $\text{II}$ 57'08	0.27324 AU	minimum elong	11333 Oct 10 18:27	28° $\text{B}$ 44'16	1°01'45	
	11331 May 17 15:59	30° $\text{R}$ $\text{B}$			11333 Oct 11 18:53	0° $\text{M}$		
morning rise	11331 May 18 16:12	29° $\text{B}$ 23'12		max. Earth dist.	11333 Oct 13 07:22	1° $\text{M}$ 53'01	1.72720 AU	
direct	11331 Jun 05 20:30	23° $\text{B}$ 05'43			11333 Nov 05 00:36	0° $\text{A}$		
greatest brilliancy	11331 Jun 15 14:57	24° $\text{B}$ 54'39	-4.9m	evening rise	11333 Nov 17 02:07	14° $\text{A}$ 53'13		
	11331 Jun 25 20:18	0° $\text{II}$			11333 Nov 29 08:43	0° $\text{B}$		
desc. node	11331 Jul 18 23:57	18° $\text{II}$ 44'16			11333 Dec 23 20:15	0° $\approx$		
morning max el	11331 Jul 26 09:04	25° $\text{II}$ 56'50	46°54'14	desc. node	11334 Jan 02 11:50	11° $\approx$ 46'16		
	11331 Jul 30 08:48	0° $\text{B}$			11334 Jan 17 11:40	0° $\text{H}$		
	11331 Aug 26 22:37	0° $\text{Q}$			11334 Feb 11 06:57	0° $\text{Y}$		
	11331 Sep 21 21:59	0° $\text{M}$			11334 Mar 08 07:07	0° $\text{B}$		
	11331 Oct 17 05:46	0° $\text{B}$			11334 Apr 02 16:55	0° $\text{II}$		
asc. node	11331 Nov 08 20:24	27° $\text{B}$ 09'27		asc. node	11334 Apr 25 09:55	25° $\text{II}$ 56'17		
	11331 Nov 11 04:51	0° $\text{M}$			11334 Apr 29 01:58	0° $\text{B}$		
	11331 Dec 05 21:40	0° $\text{A}$		evening max el	11334 May 18 14:39	20° $\text{B}$ 38'38	46°50'38	
	11331 Dec 30 09:48	0° $\text{B}$			11334 May 28 06:57	0° $\text{Q}$		
morning set	11332 Jan 23 04:24	29° $\text{B}$ 15'38		greatest brilliancy	11334 Jun 27 20:59	21° $\text{Q}$ 20'42	-4.9m	
	11332 Jan 23 18:47	0° $\approx$		retrograde	11334 Jul 07 22:10	23° $\text{Q}$ 14'27		
	11332 Feb 17 01:38	0° $\text{H}$		evening set	11334 Jul 23 10:25	18° $\text{Q}$ 33'22		
max. Earth dist.	11332 Feb 27 14:21	13° $\text{H}$ 02'14	1.72603 AU	inferior conj	11334 Jul 28 16:23	15° $\text{Q}$ 25'59	4°25'07	
desc. node	11332 Feb 28 11:57	14° $\text{H}$ 09'11		minimum elong	11334 Jul 29 01:36	15° $\text{Q}$ 11'51	4°21'57	
				min. Earth dist.	11334 Jul 28 18:58	15° $\text{Q}$ 22'02	0.27077 AU	
superior conj	11332 Mar 01 01:36	16° $\text{H}$ 05'48	-0°03'50	morning rise	11334 Aug 03 16:57	11° $\text{Q}$ 53'22		
minimum elong	11332 Mar 01 00:44	16° $\text{H}$ 03'09	0°03'33	desc. node	11334 Aug 15 10:16	7° $\text{Q}$ 50'49		
behind sun begin	11332 Feb 29 01:02	14° $\text{H}$ 49'42		direct	11334 Aug 18 09:53	7° $\text{Q}$ 40'08		
behind sun end	11332 Mar 02 00:26	17° $\text{H}$ 16'37		greatest brilliancy	11334 Aug 28 08:33	9° $\text{Q}$ 29'40	-4.8m	
	11332 Mar 12 06:30	0° $\text{Y}$			11334 Sep 27 13:49	0° $\text{M}$		
	11332 Apr 05 09:11	0° $\text{B}$		morning max el	11334 Oct 06 23:13	8° $\text{M}$ 48'25	46°12'58	
evening rise	11332 Apr 09 00:24	4° $\text{B}$ 31'54			11334 Oct 27 13:51	0° $\text{B}$		
	11332 Apr 29 10:03	0° $\text{II}$			11334 Nov 23 13:49	0° $\text{M}$		
	11332 May 23 10:37	0° $\text{B}$		asc. node	11334 Dec 06 09:08	14° $\text{M}$ 45'52		
	11332 Jun 16 13:25	0° $\text{Q}$			11334 Dec 19 09:04	0° $\text{A}$		
asc. node	11332 Jun 20 06:14	4° $\text{Q}$ 35'01			11335 Jan 13 12:14	0° $\text{B}$		
	11332 Jul 10 21:32	0° $\text{M}$			11335 Feb 07 05:25	0° $\approx$		
	11332 Aug 04 15:10	0° $\text{B}$			11335 Mar 03 16:07	0° $\text{H}$		
	11332 Aug 30 02:01	0° $\text{M}$			11335 Mar 27 22:05	0° $\text{Y}$		
	11332 Sep 26 00:36	0° $\text{A}$		desc. node	11335 Mar 28 01:35	0° $\text{Y}$ 10'52		
desc. node	11332 Oct 10 04:24	14° $\text{A}$ 30'09		morning set	11335 Apr 04 11:41	9° $\text{Y}$ 24'18		
evening max el	11332 Oct 11 02:37	15° $\text{A}$ 24'23	45°59'24		11335 Apr 21 00:06	0° $\text{B}$		
	11332 Oct 27 07:44	0° $\text{B}$		max. Earth dist.	11335 May 12 06:17	26° $\text{B}$ 36'51	1.71488 AU	
greatest brilliancy	11332 Nov 19 03:32	14° $\text{B}$ 00'59	-4.7m					
retrograde	11332 Nov 29 05:21	15° $\text{B}$ 50'58		superior conj	11335 May 14 15:54	29° $\text{B}$ 37'33	-1°25'00	
evening set	11332 Dec 17 02:23	9° $\text{B}$ 49'46		minimum elong	11335 May 14 10:11	29° $\text{B}$ 19'37	1°25'30	
inferior conj	11332 Dec 20 16:47	7° $\text{B}$ 35'31	-7°59'23		11335 May 14 23:04	0° $\text{II}$		
minimum elong	11332 Dec 21 00:25	7° $\text{B}$ 23'30	7°57'46		11335 Jun 07 20:29	0° $\text{B}$		
min. Earth dist.	11332 Dec 21 00:03	7° $\text{B}$ 24'05	0.28994 AU	evening rise	11335 Jun 23 23:12	20° $\text{B}$ 13'30		
morning rise	11332 Dec 24 22:25	4° $\text{B}$ 58'34			11335 Jul 01 18:21	0° $\text{Q}$		
	11333 Jan 05 09:13	30° $\text{R}$ $\text{A}$		asc. node	11335 Jul 18 18:34	21° $\text{Q}$ 16'28		
direct	11333 Jan 11 04:30	29° $\text{A}$ 19'37			11335 Jul 25 18:31	0° $\text{M}$		
	11333 Jan 17 03:25	0° $\text{B}$			11335 Aug 18 22:47	0° $\text{B}$		
greatest brilliancy	11333 Jan 21 20:42	1° $\text{B}$ 24'43	-4.8m		11335 Sep 12 09:23	0° $\text{M}$		
asc. node	11333 Jan 31 05:36	6° $\text{B}$ 04'49			11335 Oct 07 06:12	0° $\text{A}$		
	11333 Mar 01 04:06	0° $\approx$			11335 Nov 01 20:03	0° $\text{B}$		
morning max el	11333 Mar 01 14:04	0° $\approx$ 24'26	46°01'27	desc. node	11335 Nov 07 14:46	6° $\text{B}$ 36'56		
	11333 Mar 29 11:49	0° $\text{H}$			11335 Nov 28 16:25	0° $\approx$		
	11333 Apr 24 12:30	0° $\text{Y}$		evening max el	11335 Dec 22 04:04	24° $\approx$ 04'31	45°51'16	

	11335 Dec 28 12:04	0° $\text{H}$			11338 Jul 16 08:29	0° $\Omega$	
greatest brilliancy	11336 Jan 30 08:38	22° $\text{H}$ 29'35	-4.8m				
retrograde	11336 Feb 09 02:46	24° $\text{H}$ 14'44		superior conj	11338 Jul 28 17:47	15° $\Omega$ 31'26	-0°41'14
evening set	11336 Feb 23 20:57	20° $\text{H}$ 00'14		minimum elong	11338 Jul 29 03:13	16° $\Omega$ 00'58	0°41'20
asc. node	11336 Feb 28 15:53	17° $\text{H}$ 12'16		max. Earth dist.	11338 Jul 31 01:00	18° $\Omega$ 24'20	1.71640 AU
inferior conj	11336 Mar 01 04:26	16° $\text{H}$ 15'38	0°22'59		11338 Aug 09 07:25	0° $\text{M}$	
minimum elong	11336 Mar 01 03:33	16° $\text{H}$ 17'00	0°22'55	asc. node	11338 Aug 15 07:35	7° $\text{M}$ 30'17	
min. Earth dist.	11336 Mar 01 13:52	16° $\text{H}$ 00'57	0.27921 AU		11338 Sep 02 08:38	0° $\Omega$	
morning rise	11336 Mar 07 09:30	12° $\text{H}$ 32'35		evening rise	11338 Sep 06 00:18	4° $\Omega$ 32'41	
direct	11336 Mar 22 06:26	8° $\text{H}$ 09'26			11338 Sep 26 12:56	0° $\text{M}$	
greatest brilliancy	11336 Apr 02 00:52	10° $\text{H}$ 18'35	-4.8m		11338 Oct 20 21:35	0° $\text{H}$	
	11336 Apr 30 12:06	0° $\text{Y}$			11338 Nov 14 12:43	0° $\text{Z}$	
morning max el	11336 May 11 12:12	10° $\text{Y}$ 32'04	46°45'54	desc. node	11338 Dec 05 01:53	24° $\text{Z}$ 41'19	
	11336 May 29 22:58	0° $\text{B}$			11338 Dec 09 12:58	0° $\approx$	
desc. node	11336 Jun 19 14:46	23° $\text{B}$ 23'42			11339 Jan 04 01:36	0° $\text{H}$	
	11336 Jun 25 06:39	0° $\text{I}$			11339 Jan 30 09:12	0° $\text{Y}$	
	11336 Jul 20 11:21	0° $\text{E}$			11339 Feb 27 09:10	0° $\text{B}$	
	11336 Aug 14 04:23	0° $\Omega$		evening max el	11339 Mar 04 03:11	4° $\text{B}$ 44'48	46°20'41
	11336 Sep 07 16:35	0° $\text{M}$		asc. node	11339 Mar 28 01:56	25° $\text{B}$ 41'04	
	11336 Oct 02 02:47	0° $\Omega$			11339 Apr 03 13:12	0° $\text{I}$	
asc. node	11336 Oct 10 09:01	10° $\Omega$ 09'32		greatest brilliancy	11339 Apr 13 04:11	4° $\text{I}$ 39'01	-4.8m
	11336 Oct 26 11:42	0° $\text{M}$		retrograde	11339 Apr 22 22:26	6° $\text{I}$ 25'44	
morning set	11336 Nov 12 05:57	20° $\text{M}$ 39'36		evening set	11339 May 10 09:53	0° $\text{I}$ 33'10	
	11336 Nov 19 19:37	0° $\text{H}$			11339 May 11 07:54	30° $\text{R}$ $\text{B}$	
	11336 Dec 14 03:04	0° $\text{Z}$		inferior conj	11339 May 13 14:37	28° $\text{B}$ 35'53	8°52'54
				minimum elong	11339 May 13 08:44	28° $\text{B}$ 44'59	8°51'49
superior conj	11336 Dec 18 22:43	5° $\text{Z}$ 56'50	1°19'41	min. Earth dist.	11339 May 13 15:30	28° $\text{B}$ 34'32	0.27337 AU
minimum elong	11336 Dec 19 05:32	6° $\text{Z}$ 17'50	1°20'16	morning rise	11339 May 16 07:36	26° $\text{B}$ 56'16	
max. Earth dist.	11336 Dec 19 06:04	6° $\text{Z}$ 19'28	1.73211 AU	direct	11339 Jun 03 10:17	20° $\text{B}$ 42'10	
	11337 Jan 07 10:50	0° $\approx$		greatest brilliancy	11339 Jun 13 04:07	22° $\text{B}$ 30'24	-4.9m
evening rise	11337 Jan 25 08:19	22° $\approx$ 03'14			11339 Jun 27 00:54	0° $\text{I}$	
desc. node	11337 Jan 30 00:31	27° $\approx$ 48'43		desc. node	11339 Jul 18 01:50	17° $\text{I}$ 47'36	
	11337 Jan 31 19:10	0° $\text{H}$		morning max el	11339 Jul 23 22:17	23° $\text{I}$ 32'59	46°54'53
	11337 Feb 25 03:41	0° $\text{Y}$			11339 Jul 30 05:34	0° $\text{E}$	
	11337 Mar 21 12:00	0° $\text{B}$			11339 Aug 26 14:07	0° $\Omega$	
	11337 Apr 14 20:55	0° $\text{I}$			11339 Sep 21 11:20	0° $\text{M}$	
	11337 May 09 09:15	0° $\text{E}$			11339 Oct 16 17:56	0° $\Omega$	
asc. node	11337 May 22 20:40	16° $\text{E}$ 19'40		asc. node	11339 Nov 07 22:21	26° $\Omega$ 40'37	
	11337 Jun 03 06:29	0° $\Omega$			11339 Nov 10 16:18	0° $\text{M}$	
	11337 Jun 28 22:49	0° $\text{M}$			11339 Dec 05 08:40	0° $\text{H}$	
	11337 Jul 26 12:05	0° $\Omega$			11339 Dec 29 20:31	0° $\text{Z}$	
evening max el	11337 Jul 29 15:57	3° $\Omega$ 11'49	46°36'12	morning set	11340 Jan 20 21:15	27° $\text{Z}$ 07'00	
	11337 Aug 31 02:45	0° $\text{M}$			11340 Jan 23 05:22	0° $\approx$	
greatest brilliancy	11337 Sep 06 17:46	3° $\text{M}$ 11'11	-4.8m		11340 Feb 16 12:11	0° $\text{H}$	
desc. node	11337 Sep 11 20:29	4° $\text{M}$ 46'28		max. Earth dist.	11340 Feb 25 05:17	10° $\text{H}$ 47'09	1.72637 AU
retrograde	11337 Sep 17 20:16	5° $\text{M}$ 28'01					
evening set	11337 Oct 03 15:46	0° $\text{M}$ 35'53		superior conj	11340 Feb 27 16:31	13° $\text{H}$ 50'38	-0°00'16
	11337 Oct 04 16:44	30° $\text{R}$ $\Omega$		minimum elong	11340 Feb 27 16:29	13° $\text{H}$ 50'32	0°00'01
min. Earth dist.	11337 Oct 08 06:41	27° $\Omega$ 49'51	0.28267 AU	behind sun begin	11340 Feb 27 00:21	13° $\text{H}$ 00'33	
inferior conj	11337 Oct 09 03:23	27° $\Omega$ 17'46	-6°09'06	behind sun end	11340 Feb 28 08:38	14° $\text{H}$ 40'32	
minimum elong	11337 Oct 08 17:02	27° $\Omega$ 33'49	6°06'34	desc. node	11340 Feb 27 13:53	13° $\text{H}$ 42'26	
morning rise	11337 Oct 13 18:48	24° $\Omega$ 29'28			11340 Mar 11 17:06	0° $\text{Y}$	
direct	11337 Oct 30 07:04	19° $\Omega$ 17'30			11340 Apr 04 19:53	0° $\text{B}$	
greatest brilliancy	11337 Nov 08 21:38	20° $\Omega$ 58'14	-4.8m	evening rise	11340 Apr 06 14:03	2° $\text{B}$ 11'22	
	11337 Nov 25 13:36	0° $\text{M}$			11340 Apr 28 20:55	0° $\text{I}$	
morning max el	11337 Dec 18 03:14	19° $\text{M}$ 14'24	45°42'35		11340 May 22 21:44	0° $\text{E}$	
	11337 Dec 28 22:35	0° $\text{H}$			11340 Jun 16 00:51	0° $\Omega$	
asc. node	11338 Jan 02 20:48	5° $\text{H}$ 07'25		asc. node	11340 Jun 19 08:04	4° $\Omega$ 05'10	
	11338 Jan 25 14:19	0° $\text{Z}$			11340 Jul 10 09:27	0° $\text{M}$	
	11338 Feb 20 12:14	0° $\approx$			11340 Aug 04 03:52	0° $\Omega$	
	11338 Mar 17 14:02	0° $\text{H}$			11340 Aug 29 16:14	0° $\text{M}$	
	11338 Apr 11 04:16	0° $\text{Y}$			11340 Sep 25 18:28	0° $\text{H}$	
desc. node	11338 Apr 24 15:16	16° $\text{Y}$ 35'26		evening max el	11340 Oct 08 17:07	13° $\text{H}$ 09'20	46°00'18
	11338 May 05 10:51	0° $\text{B}$		desc. node	11340 Oct 09 06:30	13° $\text{H}$ 41'52	
	11338 May 29 12:15	0° $\text{I}$			11340 Oct 27 17:25	0° $\text{Z}$	
morning set	11338 Jun 18 22:01	25° $\text{I}$ 34'23		greatest brilliancy	11340 Nov 16 19:14	11° $\text{Z}$ 50'38	-4.7m
	11338 Jun 22 10:42	0° $\text{E}$		retrograde	11340 Nov 26 20:33	13° $\text{Z}$ 40'35	



evening set	11340 Dec 14 20:35	7° $\text{Z}$ 36'00		minimum elong	11343 May 11 21:15	26° $\text{Z}$ 49'42	1°24'25
inferior conj	11340 Dec 18 08:49	5° $\text{Z}$ 24'58	-8°07'14		11343 May 14 09:56	0° $\text{II}$	
minimum elong	11340 Dec 18 15:53	5° $\text{Z}$ 13'49	8°05'46		11343 Jun 07 07:23	0° $\text{G}$	
min. Earth dist.	11340 Dec 18 15:26	5° $\text{Z}$ 14'32	0.29007 AU	evening rise	11343 Jun 21 10:37	17° $\text{G}$ 44'33	
morning rise	11340 Dec 22 11:09	2° $\text{Z}$ 52'42			11343 Jul 01 05:18	0° $\Omega$	
	11340 Dec 27 19:55	30° $\text{R}$ 27		asc. node	11343 Jul 17 20:25	20° $\Omega$ 47'47	
direct	11341 Jan 08 20:16	27° $\text{Z}$ 09'08			11343 Jul 25 05:36	0° $\text{M}$	
greatest brilliancy	11341 Jan 19 12:10	29° $\text{Z}$ 13'24	-4.8m		11343 Aug 18 10:05	0° $\text{L}$	
	11341 Jan 21 10:46	0° $\text{Z}$			11343 Sep 11 21:06	0° $\text{M}$	
asc. node	11341 Jan 30 07:33	4° $\text{Z}$ 46'32			11343 Oct 06 18:38	0° $\text{Z}$	
morning max el	11341 Feb 27 04:12	28° $\text{Z}$ 07'45	46°00'14		11343 Nov 01 09:51	0° $\text{Z}$	
	11341 Mar 01 01:35	0° $\approx$		desc. node	11343 Nov 06 16:45	6° $\text{Z}$ 02'07	
	11341 Mar 29 03:13	0° $\text{H}$			11343 Nov 28 09:13	0° $\approx$	
	11341 Apr 24 01:44	0° $\text{Y}$		evening max el	11343 Dec 19 19:00	21° $\approx$ 50'39	45°50'57
	11341 May 19 01:38	0° $\text{Z}$			11343 Dec 28 14:45	0° $\text{H}$	
desc. node	11341 May 22 04:21	3° $\text{Z}$ 47'16		greatest brilliancy	11344 Jan 27 22:27	20° $\text{H}$ 12'39	-4.8m
	11341 Jun 12 13:14	0° $\text{II}$		retrograde	11344 Feb 06 17:39	21° $\text{H}$ 58'23	
	11341 Jul 06 18:13	0° $\text{G}$		evening set	11344 Feb 21 12:18	17° $\text{H}$ 42'20	
	11341 Jul 30 20:29	0° $\Omega$		inferior conj	11344 Feb 27 19:05	13° $\text{H}$ 58'29	0°00'42
	11341 Aug 23 22:32	0° $\text{M}$		minimum elong	11344 Feb 27 19:03	13° $\text{H}$ 58'32	0°00'57
morning set	11341 Aug 31 12:41	9° $\text{M}$ 26'48		transit middle	11344 Feb 27 19:03	13° $\text{H}$ 58'32	0°00'57
asc. node	11341 Sep 11 21:14	23° $\text{M}$ 34'02		transit begin	11344 Feb 27 15:00	14° $\text{H}$ 04'50	
	11341 Sep 17 01:28	0° $\text{L}$		transit end	11344 Feb 27 23:06	13° $\text{H}$ 52'14	
				asc. node	11344 Feb 27 17:59	14° $\text{H}$ 00'12	
superior conj	11341 Oct 08 20:15	27° $\text{L}$ 02'22	0°59'23	min. Earth dist.	11344 Feb 28 04:52	13° $\text{H}$ 43'17	0.27958 AU
minimum elong	11341 Oct 08 10:17	26° $\text{L}$ 31'29	0°59'17	morning rise	11344 Mar 05 01:14	10° $\text{H}$ 14'13	
max. Earth dist.	11341 Oct 10 22:48	29° $\text{L}$ 39'01	1.72686 AU	direct	11344 Mar 19 21:54	5° $\text{H}$ 51'43	
	11341 Oct 11 05:34	0° $\text{M}$		greatest brilliancy	11344 Mar 30 16:33	8° $\text{H}$ 01'35	-4.8m
	11341 Nov 04 11:16	0° $\text{Z}$			11344 Apr 03 15:10	0° $\text{Y}$	
evening rise	11341 Nov 14 18:45	12° $\text{Z}$ 43'30		morning max el	11344 May 09 03:57	8° $\text{Y}$ 15'39	46°44'45
	11341 Nov 28 19:31	0° $\text{Z}$			11344 May 29 16:14	0° $\text{Z}$	
	11341 Dec 23 07:18	0° $\approx$		desc. node	11344 Jun 18 16:34	22° $\text{Z}$ 46'02	
desc. node	11342 Jan 01 13:40	11° $\approx$ 17'55			11344 Jun 24 20:55	0° $\text{II}$	
	11342 Jan 16 23:05	0° $\text{H}$			11344 Jul 20 00:12	0° $\text{G}$	
	11342 Feb 10 18:54	0° $\text{Y}$			11344 Aug 13 16:25	0° $\Omega$	
	11342 Mar 07 19:56	0° $\text{Z}$			11344 Sep 07 04:06	0° $\text{M}$	
	11342 Apr 02 07:15	0° $\text{II}$			11344 Oct 01 13:56	0° $\text{L}$	
asc. node	11342 Apr 24 12:00	25° $\text{II}$ 15'03		asc. node	11344 Oct 09 10:55	9° $\text{L}$ 41'15	
	11342 Apr 28 19:33	0° $\text{G}$			11344 Oct 25 22:39	0° $\text{M}$	
evening max el	11342 May 16 02:48	18° $\text{G}$ 11'59	46°50'15	morning set	11344 Nov 09 22:36	18° $\text{M}$ 29'28	
	11342 May 28 11:21	0° $\Omega$			11344 Nov 19 06:26	0° $\text{Z}$	
greatest brilliancy	11342 Jun 25 11:43	18° $\Omega$ 58'04	-4.9m		11344 Dec 13 13:50	0° $\text{Z}$	
retrograde	11342 Jul 05 11:04	20° $\Omega$ 50'46					
evening set	11342 Jul 21 02:31	16° $\Omega$ 05'23		superior conj	11344 Dec 16 15:43	3° $\text{Z}$ 47'57	1°20'53
inferior conj	11342 Jul 26 05:30	13° $\Omega$ 02'32	4°46'05	minimum elong	11344 Dec 16 21:58	4° $\text{Z}$ 07'12	1°21'28
minimum elong	11342 Jul 26 15:14	12° $\Omega$ 47'38	4°42'48	max. Earth dist.	11344 Dec 17 02:43	4° $\text{Z}$ 21'52	1.73211 AU
min. Earth dist.	11342 Jul 26 09:17	12° $\Omega$ 56'45	0.27074 AU		11345 Jan 06 21:38	0° $\approx$	
morning rise	11342 Aug 01 04:00	9° $\Omega$ 32'41		evening rise	11345 Jan 23 00:10	19° $\approx$ 50'40	
desc. node	11342 Aug 14 12:20	5° $\Omega$ 18'41		desc. node	11345 Jan 29 02:23	27° $\approx$ 20'51	
direct	11342 Aug 15 22:21	5° $\Omega$ 16'17			11345 Jan 31 06:06	0° $\text{H}$	
greatest brilliancy	11342 Aug 25 22:34	7° $\Omega$ 07'12	-4.8m		11345 Feb 24 14:51	0° $\text{Y}$	
	11342 Sep 27 17:17	0° $\text{M}$			11345 Mar 20 23:30	0° $\text{Z}$	
morning max el	11342 Oct 04 12:57	6° $\text{M}$ 28'21	46°14'35		11345 Apr 14 08:51	0° $\text{II}$	
	11342 Oct 27 07:08	0° $\text{L}$			11345 May 08 21:49	0° $\text{G}$	
	11342 Nov 23 03:51	0° $\text{M}$		asc. node	11345 May 21 22:31	15° $\text{G}$ 45'54	
asc. node	11342 Dec 05 11:02	14° $\text{M}$ 12'57			11345 Jun 02 20:07	0° $\Omega$	
	11342 Dec 18 21:35	0° $\text{Z}$			11345 Jun 28 14:33	0° $\text{M}$	
	11343 Jan 12 23:57	0° $\text{Z}$			11345 Jul 26 09:25	0° $\text{L}$	
	11343 Feb 06 16:43	0° $\approx$		evening max el	11345 Jul 27 07:56	0° $\text{L}$ 56'34	46°37'26
	11343 Mar 03 03:11	0° $\text{H}$			11345 Sep 02 04:29	0° $\text{M}$	
desc. node	11343 Mar 27 03:34	29° $\text{H}$ 43'04		greatest brilliancy	11345 Sep 04 08:41	0° $\text{M}$ 55'03	-4.8m
	11343 Mar 27 09:01	0° $\text{Y}$		desc. node	11345 Sep 10 22:30	2° $\text{M}$ 48'03	
morning set	11343 Apr 02 00:25	7° $\text{Y}$ 00'37		retrograde	11345 Sep 15 12:13	3° $\text{M}$ 12'25	
	11343 Apr 20 10:59	0° $\text{Z}$			11345 Sep 28 03:56	30° $\text{R}$ 25	
max. Earth dist.	11343 May 09 16:58	24° $\text{Z}$ 05'44	1.71512 AU	evening set	11345 Oct 01 04:09	28° $\text{Z}$ 24'45	
				min. Earth dist.	11345 Oct 05 21:13	25° $\text{L}$ 35'37	0.28213 AU
superior conj	11343 May 12 03:53	27° $\text{Z}$ 10'28	-1°23'58	inferior conj	11345 Oct 06 18:24	25° $\text{L}$ 02'48	-5°53'38

minimum elong	11345 Oct 06 08:07	25° $\Omega$ 18'44	5°51'04	desc. node	11348 Feb 26 15:50	13° $\Upsilon$ 15'02	
morning rise	11345 Oct 11 12:40	22° $\Omega$ 10'36			11348 Mar 11 03:58	0° $\Upsilon$	
direct	11345 Oct 27 22:18	17° $\Omega$ 03'29		evening rise	11348 Apr 04 03:29	29° $\Upsilon$ 49'28	
greatest brilliancy	11345 Nov 06 11:16	18° $\Omega$ 43'13	-4.8m		11348 Apr 04 06:51	0° $\Upsilon$	
	11345 Nov 26 05:11	0° $\Pi$			11348 Apr 28 08:02	0° $\Pi$	
morning max el	11345 Dec 15 18:24	17° $\Pi$ 01'26	45°42'42		11348 May 22 09:04	0° $\Theta$	
	11345 Dec 28 17:25	0° $\Upsilon$			11348 Jun 15 12:31	0° $\Omega$	
asc. node	11346 Jan 01 22:42	4° $\Upsilon$ 25'29		asc. node	11348 Jun 18 09:59	3° $\Omega$ 34'55	
	11346 Jan 25 04:53	0° $\Theta$			11348 Jul 09 21:36	0° $\Pi$	
	11346 Feb 20 01:05	0° $\approx$			11348 Aug 03 16:49	0° $\Omega$	
	11346 Mar 17 02:03	0° $\Upsilon$			11348 Aug 29 06:45	0° $\Pi$	
	11346 Apr 10 15:50	0° $\Upsilon$			11348 Sep 25 12:51	0° $\Upsilon$	
desc. node	11346 Apr 23 17:06	16° $\Upsilon$ 05'48		evening max el	11348 Oct 06 07:08	10° $\Upsilon$ 52'57	46°01'25
	11346 May 04 22:10	0° $\Upsilon$		desc. node	11348 Oct 08 08:29	12° $\Upsilon$ 52'24	
	11346 May 28 23:24	0° $\Pi$			11348 Oct 28 06:25	0° $\Theta$	
morning set	11346 Jun 16 09:27	23° $\Pi$ 05'01		greatest brilliancy	11348 Nov 14 10:51	9° $\Theta$ 40'35	-4.7m
	11346 Jun 21 21:45	0° $\Theta$		retrograde	11348 Nov 24 12:16	11° $\Theta$ 31'08	
	11346 Jul 15 19:26	0° $\Omega$		evening set	11348 Dec 12 14:46	5° $\Theta$ 23'15	
				inferior conj	11348 Dec 16 01:06	3° $\Theta$ 15'13	-8°14'09
superior conj	11346 Jul 26 06:13	13° $\Omega$ 05'47	-0°44'34	minimum elong	11348 Dec 16 07:35	3° $\Theta$ 04'59	8°12'49
minimum elong	11346 Jul 26 16:12	13° $\Omega$ 37'02	0°44'40	min. Earth dist.	11348 Dec 16 07:01	3° $\Theta$ 05'53	0.29021 AU
max. Earth dist.	11346 Jul 28 14:24	16° $\Omega$ 01'45	1.71604 AU	morning rise	11348 Dec 20 00:20	0° $\Theta$ 47'33	
	11346 Aug 08 18:19	0° $\Pi$			11348 Dec 21 08:43	30° $\Upsilon$ 21	
asc. node	11346 Aug 14 09:35	7° $\Pi$ 02'31		direct	11349 Jan 06 11:59	24° $\Upsilon$ 59'22	
	11346 Sep 01 19:31	0° $\Omega$		greatest brilliancy	11349 Jan 17 04:08	27° $\Upsilon$ 03'21	-4.8m
evening rise	11346 Sep 03 15:05	2° $\Omega$ 15'33			11349 Jan 23 14:05	0° $\Theta$	
	11346 Sep 25 23:52	0° $\Pi$		asc. node	11349 Jan 29 09:38	3° $\Theta$ 31'11	
	11346 Oct 20 08:43	0° $\Upsilon$		morning max el	11349 Feb 24 18:54	25° $\Theta$ 52'27	45°58'51
	11346 Nov 14 00:14	0° $\Theta$			11349 Feb 28 22:19	0° $\approx$	
desc. node	11346 Dec 04 03:42	24° $\Theta$ 10'47			11349 Mar 28 18:31	0° $\Upsilon$	
	11346 Dec 09 01:10	0° $\approx$			11349 Apr 23 15:02	0° $\Upsilon$	
	11347 Jan 03 15:03	0° $\Upsilon$			11349 May 18 13:57	0° $\Upsilon$	
	11347 Jan 30 01:00	0° $\Upsilon$		desc. node	11349 May 21 06:12	3° $\Upsilon$ 15'38	
	11347 Feb 27 06:56	0° $\Upsilon$			11349 Jun 12 00:58	0° $\Pi$	
evening max el	11347 Mar 01 16:55	2° $\Upsilon$ 23'41	46°19'15		11349 Jul 06 05:35	0° $\Theta$	
asc. node	11347 Mar 27 03:58	24° $\Upsilon$ 23'00			11349 Jul 30 07:36	0° $\Omega$	
	11347 Apr 05 10:33	0° $\Pi$			11349 Aug 23 09:28	0° $\Pi$	
greatest brilliancy	11347 Apr 10 17:23	2° $\Pi$ 15'13	-4.8m	morning set	11349 Aug 29 02:51	7° $\Pi$ 07'39	
retrograde	11347 Apr 20 11:00	4° $\Pi$ 01'20		asc. node	11349 Sep 10 23:06	23° $\Pi$ 06'16	
	11347 May 04 17:01	30° $\Upsilon$ 8			11349 Sep 16 12:15	0° $\Omega$	
evening set	11347 May 07 19:00	28° $\Upsilon$ 15'08					
inferior conj	11347 May 11 03:51	26° $\Upsilon$ 11'33	8°45'53	superior conj	11349 Oct 06 12:11	24° $\Omega$ 49'47	0°56'51
minimum elong	11347 May 10 21:10	26° $\Upsilon$ 21'54	8°44'42	minimum elong	11349 Oct 06 02:16	24° $\Omega$ 19'03	0°56'43
min. Earth dist.	11347 May 11 04:32	26° $\Upsilon$ 10'29	0.27347 AU	max. Earth dist.	11349 Oct 08 13:05	27° $\Omega$ 21'23	1.72651 AU
morning rise	11347 May 13 23:18	24° $\Upsilon$ 27'58			11349 Oct 10 16:16	0° $\Pi$	
direct	11347 May 31 23:28	18° $\Upsilon$ 17'36			11349 Nov 03 21:57	0° $\Upsilon$	
greatest brilliancy	11347 Jun 10 17:51	20° $\Upsilon$ 05'52	-4.9m	evening rise	11349 Nov 12 11:41	10° $\Upsilon$ 34'47	
	11347 Jun 27 22:11	0° $\Pi$			11349 Nov 28 06:16	0° $\Theta$	
desc. node	11347 Jul 17 03:51	16° $\Pi$ 51'37			11349 Dec 22 18:15	0° $\approx$	
morning max el	11347 Jul 21 10:42	21° $\Pi$ 06'07	46°55'37	desc. node	11349 Dec 31 15:40	10° $\approx$ 50'18	
	11347 Jul 30 01:56	0° $\Theta$			11350 Jan 16 10:24	0° $\Upsilon$	
	11347 Aug 26 05:39	0° $\Omega$			11350 Feb 10 06:49	0° $\Upsilon$	
	11347 Sep 21 00:46	0° $\Pi$			11350 Mar 07 08:49	0° $\Upsilon$	
	11347 Oct 16 06:13	0° $\Omega$			11350 Apr 01 21:49	0° $\Pi$	
asc. node	11347 Nov 07 00:13	26° $\Omega$ 11'05		asc. node	11350 Apr 23 13:51	24° $\Pi$ 32'23	
	11347 Nov 10 03:52	0° $\Pi$			11350 Apr 28 13:42	0° $\Theta$	
	11347 Dec 04 19:46	0° $\Upsilon$		evening max el	11350 May 13 15:28	15° $\Theta$ 46'22	46°49'51
	11347 Dec 29 07:24	0° $\Theta$			11350 May 28 18:01	0° $\Omega$	
morning set	11348 Jan 18 14:06	24° $\Theta$ 57'43		greatest brilliancy	11350 Jun 23 01:43	16° $\Omega$ 34'02	-4.9m
	11348 Jan 22 16:09	0° $\approx$		retrograde	11350 Jul 03 00:25	18° $\Omega$ 26'26	
	11348 Feb 15 22:59	0° $\Upsilon$		evening set	11350 Jul 18 18:33	13° $\Omega$ 36'25	
max. Earth dist.	11348 Feb 22 20:11	8° $\Upsilon$ 31'14	1.72677 AU	inferior conj	11350 Jul 23 18:24	10° $\Omega$ 38'17	5°06'31
				minimum elong	11350 Jul 24 04:35	10° $\Omega$ 22'42	5°03'11
superior conj	11348 Feb 25 07:17	11° $\Upsilon$ 34'15	0°03'19	min. Earth dist.	11350 Jul 23 23:00	10° $\Omega$ 31'14	0.27069 AU
minimum elong	11348 Feb 25 08:08	11° $\Upsilon$ 36'51	0°03'33	morning rise	11350 Jul 29 14:38	7° $\Omega$ 11'48	
behind sun begin	11348 Feb 24 08:33	10° $\Upsilon$ 23'48		direct	11350 Aug 13 10:56	2° $\Omega$ 51'45	
behind sun end	11348 Feb 26 07:43	12° $\Upsilon$ 49'53		desc. node	11350 Aug 13 14:22	2° $\Omega$ 51'46	

greatest brilliancy	11350 Aug 23 11:45	4°Ω43'35	-4.8m			11353 May 08 10:03	0°☿	
	11350 Sep 27 19:07	0°♍		asc. node		11353 May 21 00:29	15°☿13'25	
morning max el	11350 Oct 02 03:28	4°♍10'20	46°16'18			11353 Jun 02 09:31	0°Ω	
	11350 Oct 26 23:54	0°♌				11353 Jun 28 06:16	0°♍	
	11350 Nov 22 17:35	0°♍		evening max el		11353 Jul 24 23:40	28°♍40'55	46°38'24
asc. node	11350 Dec 04 12:54	13°♍40'37				11353 Jul 26 07:24	0°♌	
	11350 Dec 18 09:51	0°♊		greatest brilliancy		11353 Sep 02 00:12	28°♌39'28	-4.8m
	11351 Jan 12 11:26	0°♊				11353 Sep 06 02:55	0°♍	
	11351 Feb 06 03:45	0°♋		desc. node		11353 Sep 10 00:27	0°♍44'48	
	11351 Mar 02 14:00	0°♋		retrograde		11353 Sep 13 03:32	0°♍56'16	
desc. node	11351 Mar 26 05:23	29°♋15'28				11353 Sep 19 22:43	30°♋♌	
	11351 Mar 26 19:44	0°♎		evening set		11353 Sep 28 16:25	26°♌13'16	
morning set	11351 Mar 30 13:27	4°♎38'38		min. Earth dist.		11353 Oct 03 11:52	23°♌20'36	0.28153 AU
	11351 Apr 19 21:42	0°♏		inferior conj		11353 Oct 04 09:08	22°♌47'38	-5°37'30
max. Earth dist.	11351 May 07 04:32	21°♏37'48	1.71545 AU	minimum elong		11353 Oct 03 22:59	23°♌03'22	5°34'53
				morning rise		11353 Oct 09 06:13	19°♌51'26	
superior conj	11351 May 09 15:40	24°♏43'11	-1°22'46	direct		11353 Oct 25 13:06	14°♌49'27	
minimum elong	11351 May 09 08:12	24°♏19'47	1°23'11	greatest brilliancy		11353 Nov 04 00:48	16°♌28'12	-4.8m
	11351 May 13 20:42	0°♐				11353 Nov 26 16:27	0°♍	
	11351 Jun 06 18:13	0°☿		morning max el		11353 Dec 13 08:25	14°♍46'30	45°43'00
evening rise	11351 Jun 18 21:34	15°☿14'22				11353 Dec 28 11:21	0°♊	
	11351 Jun 30 16:12	0°Ω		asc. node		11354 Jan 01 00:49	3°♊45'39	
asc. node	11351 Jul 16 22:23	20°Ω19'46				11354 Jan 24 18:53	0°♊	
	11351 Jul 24 16:36	0°♍				11354 Feb 19 13:27	0°♋	
	11351 Aug 17 21:17	0°♌				11354 Mar 16 13:36	0°♋	
	11351 Sep 11 08:42	0°♍				11354 Apr 10 02:56	0°♎	
	11351 Oct 06 06:56	0°♊		desc. node		11354 Apr 22 18:58	15°♎37'45	
	11351 Oct 31 23:32	0°♊				11354 May 04 09:01	0°♏	
desc. node	11351 Nov 05 18:37	5°♊27'27				11354 May 28 10:06	0°♐	
	11351 Nov 28 02:03	0°♋		morning set		11354 Jun 13 21:11	20°♐38'02	
evening max el	11351 Dec 17 10:57	19°♋40'18	45°50'46			11354 Jun 21 08:20	0°☿	
	11351 Dec 28 18:35	0°♋				11354 Jul 15 06:00	0°Ω	
greatest brilliancy	11352 Jan 25 12:44	17°♋58'05	-4.8m					
retrograde	11352 Feb 04 08:46	19°♋43'59		superior conj		11354 Jul 23 18:41	10°Ω41'27	-0°47'48
evening set	11352 Feb 19 04:11	15°♋26'33		minimum elong		11354 Jul 24 05:09	11°Ω14'12	0°47'56
inferior conj	11352 Feb 25 10:03	11°♋43'29	-0°21'15	max. Earth dist.		11354 Jul 26 01:30	13°Ω33'08	1.71576 AU
minimum elong	11352 Feb 25 10:51	11°♋42'14	0°20'42			11354 Aug 08 04:53	0°♍	
min. Earth dist.	11352 Feb 25 19:59	11°♋28'01	0.27994 AU	asc. node		11354 Aug 13 11:27	6°♍35'24	
asc. node	11352 Feb 26 19:55	10°♋50'54		evening rise		11354 Sep 01 05:27	29°♍57'55	
morning rise	11352 Mar 02 17:03	7°♋58'09				11354 Sep 01 06:07	0°♌	
direct	11352 Mar 17 13:49	3°♋36'28				11354 Sep 25 10:33	0°♍	
greatest brilliancy	11352 Mar 28 07:50	5°♋46'03	-4.8m			11354 Oct 19 19:34	0°♊	
	11352 Apr 30 16:12	0°♎				11354 Nov 13 11:27	0°♊	
morning max el	11352 May 06 19:31	6°♎00'10	46°43'14	desc. node		11354 Dec 03 05:44	23°♊41'48	
	11352 May 29 08:48	0°♏				11354 Dec 08 13:06	0°♋	
desc. node	11352 Jun 17 18:35	22°♏10'05				11355 Jan 03 04:14	0°♋	
	11352 Jun 24 10:49	0°♐				11355 Jan 29 16:39	0°♎	
	11352 Jul 19 12:49	0°☿				11355 Feb 27 05:03	0°♏	
	11352 Aug 13 04:16	0°Ω		evening max el		11355 Feb 27 06:05	0°♏02'34	46°17'57
	11352 Sep 06 15:24	0°♍		asc. node		11355 Mar 26 05:55	23°♏03'53	
	11352 Oct 01 00:52	0°♌		greatest brilliancy		11355 Apr 08 07:04	29°♏53'41	-4.8m
asc. node	11352 Oct 08 12:43	9°♌13'30				11355 Apr 08 14:24	0°♐	
	11352 Oct 25 09:19	0°♍		retrograde		11355 Apr 17 23:43	1°♐39'13	
morning set	11352 Nov 07 15:07	16°♍19'50				11355 Apr 27 00:37	30°♐♏	
	11352 Nov 18 16:57	0°♊		evening set		11355 May 05 04:08	25°♏59'24	
	11352 Dec 13 00:18	0°♊		inferior conj		11355 May 08 17:18	23°♏49'27	8°37'58
				minimum elong		11355 May 08 09:51	24°♏00'59	8°36'37
superior conj	11352 Dec 14 08:49	1°♊40'20	1°21'57	min. Earth dist.		11355 May 08 18:00	23°♏48'22	0.27357 AU
minimum elong	11352 Dec 14 14:28	1°♊57'45	1°22'35	morning rise		11355 May 11 15:31	22°♏01'34	
max. Earth dist.	11352 Dec 14 22:59	2°♊24'02	1.73207 AU	direct		11355 May 29 12:24	15°♏55'06	
	11353 Jan 06 08:06	0°♋		greatest brilliancy		11355 Jun 08 08:11	17°♏44'05	-4.9m
evening rise	11353 Jan 20 16:13	17°♋39'49				11355 Jun 28 13:07	0°♐	
desc. node	11353 Jan 28 04:22	26°♋54'22		desc. node		11355 Jul 16 05:54	15°♐58'32	
	11353 Jan 30 16:42	0°♋		morning max el		11355 Jul 18 23:09	18°♐40'56	46°56'15
	11353 Feb 24 01:39	0°♎				11355 Jul 29 21:06	0°☿	
	11353 Mar 20 10:36	0°♏				11355 Aug 25 20:29	0°Ω	
	11353 Apr 13 20:24	0°♐				11355 Sep 20 13:44	0°♍	

	11355 Oct 15 18:09	0°♊				11358 Apr 01 12:26	0°♊		
asc. node	11355 Nov 06 02:08	25°♊42'37			asc. node	11358 Apr 22 15:52	23°♊50'08		
	11355 Nov 09 15:07	0°♊				11358 Apr 28 08:09	0°♊		
	11355 Dec 04 06:36	0°♊			evening max el	11358 May 11 05:04	13°♊23'40	46°49'28	
	11355 Dec 28 17:58	0°♊				11358 May 29 03:00	0°♊		
morning set	11356 Jan 16 06:42	22°♊48'37			greatest brilliancy	11358 Jun 20 15:22	14°♊10'10	-4.9m	
	11356 Jan 22 02:37	0°♊			retrograde	11358 Jun 30 14:13	16°♊02'32		
	11356 Feb 15 09:26	0°♊			evening set	11358 Jul 16 10:45	11°♊07'50		
max. Earth dist.	11356 Feb 20 13:19	6°♊23'19	1.72715 AU		inferior conj	11358 Jul 21 07:17	8°♊14'24	5°26'26	
					minimum elong	11358 Jul 21 17:51	7°♊58'16	5°23'05	
superior conj	11356 Feb 22 22:01	9°♊18'49	0°06'51		min. Earth dist.	11358 Jul 21 12:22	8°♊06'39	0.27063 AU	
minimum elong	11356 Feb 22 23:41	9°♊24'00	0°07'04		morning rise	11358 Jul 27 01:00	4°♊51'42		
behind sun begin	11356 Feb 22 01:54	8°♊16'34			direct	11358 Aug 11 00:03	0°♊27'46		
behind sun end	11356 Feb 23 21:28	10°♊31'26			desc. node	11358 Aug 12 16:15	0°♊31'06		
desc. node	11356 Feb 25 17:35	12°♊48'04			greatest brilliancy	11358 Aug 21 00:18	2°♊19'44	-4.8m	
	11356 Mar 10 14:29	0°♊				11358 Sep 27 19:23	0°♊		
evening rise	11356 Apr 01 17:07	27°♊29'25			morning max el	11358 Sep 29 18:26	1°♊54'04	46°18'01	
	11356 Apr 03 17:29	0°♊				11358 Oct 26 16:09	0°♊		
	11356 Apr 27 18:48	0°♊				11358 Nov 22 07:01	0°♊		
	11356 May 21 20:02	0°♊			asc. node	11358 Dec 03 14:56	13°♊09'21		
	11356 Jun 14 23:47	0°♊				11358 Dec 17 21:59	0°♊		
asc. node	11356 Jun 17 12:01	3°♊06'12				11359 Jan 11 22:52	0°♊		
	11356 Jul 09 09:21	0°♊				11359 Feb 05 14:48	0°♊		
	11356 Aug 03 05:25	0°♊				11359 Mar 02 00:50	0°♊		
	11356 Aug 28 21:02	0°♊			desc. node	11359 Mar 25 07:14	28°♊47'52		
	11356 Sep 25 07:23	0°♊				11359 Mar 26 06:28	0°♊		
evening max el	11356 Oct 03 21:14	8°♊37'29	46°02'22		morning set	11359 Mar 28 02:24	2°♊16'24		
desc. node	11356 Oct 07 10:23	12°♊02'35				11359 Apr 19 08:25	0°♊		
	11356 Oct 28 23:43	0°♊			max. Earth dist.	11359 May 04 15:35	19°♊08'25	1.71573 AU	
greatest brilliancy	11356 Nov 12 01:45	7°♊29'48	-4.7m						
retrograde	11356 Nov 22 04:09	9°♊21'35			superior conj	11359 May 07 03:21	22°♊15'40	-1°21'25	
evening set	11356 Dec 10 08:28	3°♊10'30			minimum elong	11359 May 06 19:08	21°♊49'56	1°21'46	
inferior conj	11356 Dec 13 17:08	1°♊05'14	-8°20'22			11359 May 13 07:27	0°♊		
minimum elong	11356 Dec 13 22:58	0°♊56'02	8°19'10			11359 Jun 06 05:01	0°♊		
min. Earth dist.	11356 Dec 13 22:10	0°♊57'18	0.29035 AU		evening rise	11359 Jun 16 08:31	12°♊44'09		
	11356 Dec 15 10:42	30°♊				11359 Jun 30 03:05	0°♊		
morning rise	11356 Dec 17 13:25	28°♊42'11			asc. node	11359 Jul 16 00:15	19°♊51'20		
direct	11357 Jan 04 03:31	22°♊49'16				11359 Jul 24 03:37	0°♊		
greatest brilliancy	11357 Jan 14 19:53	24°♊53'15	-4.7m			11359 Aug 17 08:31	0°♊		
	11357 Jan 24 23:31	0°♊				11359 Sep 10 20:19	0°♊		
asc. node	11357 Jan 28 11:33	2°♊18'00				11359 Oct 05 19:17	0°♊		
morning max el	11357 Feb 22 10:15	23°♊39'23	45°57'37			11359 Oct 31 13:20	0°♊		
	11357 Feb 28 18:09	0°♊			desc. node	11359 Nov 04 20:42	4°♊53'09		
	11357 Mar 28 09:20	0°♊				11359 Nov 27 19:16	0°♊		
	11357 Apr 23 03:57	0°♊			evening max el	11359 Dec 15 02:46	17°♊29'21	45°50'18	
	11357 May 18 01:54	0°♊				11359 Dec 29 00:34	0°♊		
desc. node	11357 May 20 08:08	2°♊45'15			greatest brilliancy	11360 Jan 23 03:23	15°♊43'15	-4.8m	
	11357 Jun 11 12:23	0°♊			retrograde	11360 Feb 01 23:17	17°♊28'29		
	11357 Jul 05 16:40	0°♊			evening set	11360 Feb 16 20:05	13°♊09'38		
	11357 Jul 29 18:26	0°♊			inferior conj	11360 Feb 23 00:52	9°♊27'33	-0°43'11	
	11357 Aug 22 20:06	0°♊			minimum elong	11360 Feb 23 02:30	9°♊25'01	0°42'23	
morning set	11357 Aug 26 17:17	4°♊50'09			min. Earth dist.	11360 Feb 23 11:16	9°♊11'20	0.28033 AU	
asc. node	11357 Sep 10 00:53	22°♊39'09			asc. node	11360 Feb 25 21:52	7°♊40'53		
	11357 Sep 15 22:44	0°♊			morning rise	11360 Feb 29 08:29	5°♊41'07		
					direct	11360 Mar 15 05:27	1°♊20'14		
superior conj	11357 Oct 04 04:09	22°♊38'06	0°54'15		greatest brilliancy	11360 Mar 25 23:10	3°♊29'26	-4.8m	
minimum elong	11357 Oct 03 18:21	22°♊07'43	0°54'03			11360 Apr 30 16:22	0°♊		
max. Earth dist.	11357 Oct 06 04:48	25°♊08'58	1.72623 AU		morning max el	11360 May 04 10:12	3°♊41'42	46°41'49	
	11357 Oct 10 02:41	0°♊				11360 May 29 01:17	0°♊		
	11357 Nov 03 08:24	0°♊			desc. node	11360 Jun 16 20:36	21°♊33'53		
evening rise	11357 Nov 10 04:36	8°♊26'38				11360 Jun 24 00:43	0°♊		
	11357 Nov 27 16:52	0°♊				11360 Jul 19 01:28	0°♊		
	11357 Dec 22 05:07	0°♊				11360 Aug 12 16:10	0°♊		
desc. node	11357 Dec 30 17:34	10°♊22'42				11360 Sep 06 02:49	0°♊		
	11358 Jan 15 21:39	0°♊				11360 Sep 30 11:56	0°♊		
	11358 Feb 09 18:41	0°♊			asc. node	11360 Oct 07 14:40	8°♊45'43		
	11358 Mar 06 21:40	0°♊				11360 Oct 24 20:09	0°♊		

morning set	11360 Nov 05 07:50	14° $\mathbb{M}$ 10'18		min. Earth dist.	11363 May 06 07:17	21° $\mathcal{B}$ 24'14	0.27374 AU
	11360 Nov 18 03:37	0° $\mathcal{A}$		morning rise	11363 May 09 07:50	19° $\mathcal{B}$ 32'54	
				direct	11363 May 27 01:13	13° $\mathcal{B}$ 30'14	
superior conj	11360 Dec 12 02:10	29° $\mathcal{A}$ 33'06	1°22'54	greatest brilliancy	11363 Jun 05 22:37	15° $\mathcal{B}$ 20'28	-4.9m
minimum elong	11360 Dec 12 07:12	29° $\mathcal{A}$ 48'37	1°23'32		11363 Jun 29 01:07	0° $\mathbb{I}$	
	11360 Dec 12 10:54	0° $\mathcal{B}$		desc. node	11363 Jul 15 07:45	15° $\mathbb{I}$ 04'10	
max. Earth dist.	11360 Dec 12 18:41	0° $\mathcal{B}$ 24'01	1.73201 AU	morning max el	11363 Jul 16 12:29	16° $\mathbb{I}$ 16'03	46°56'58
	11361 Jan 05 18:46	0° $\approx$			11363 Jul 29 16:24	0° $\mathcal{C}$	
evening rise	11361 Jan 18 08:24	15° $\approx$ 28'43			11363 Aug 25 11:41	0° $\mathcal{Q}$	
desc. node	11361 Jan 27 06:11	26° $\approx$ 26'40			11363 Sep 20 03:04	0° $\mathbb{M}$	
	11361 Jan 30 03:32	0° $\mathcal{H}$			11363 Oct 15 06:24	0° $\mathcal{L}$	
	11361 Feb 23 12:45	0° $\mathcal{Y}$		asc. node	11363 Nov 05 04:04	25° $\mathcal{L}$ 13'10	
	11361 Mar 19 22:04	0° $\mathcal{B}$			11363 Nov 09 02:43	0° $\mathbb{M}$	
	11361 Apr 13 08:20	0° $\mathbb{I}$			11363 Dec 03 17:47	0° $\mathcal{A}$	
	11361 May 07 22:41	0° $\mathcal{C}$			11363 Dec 28 04:55	0° $\mathcal{B}$	
asc. node	11361 May 20 02:30	14° $\mathcal{C}$ 39'56		morning set	11364 Jan 13 23:40	20° $\mathcal{B}$ 39'29	
	11361 Jun 01 23:21	0° $\mathcal{Q}$			11364 Jan 21 13:27	0° $\approx$	
	11361 Jun 27 22:34	0° $\mathbb{M}$			11364 Feb 14 20:16	0° $\mathcal{H}$	
evening max el	11361 Jul 22 14:29	26° $\mathbb{M}$ 22'07	46°39'25	max. Earth dist.	11364 Feb 18 08:35	4° $\mathcal{H}$ 20'50	1.72749 AU
	11361 Jul 26 06:38	0° $\mathcal{L}$					
greatest brilliancy	11361 Aug 30 16:19	26° $\mathcal{L}$ 23'43	-4.8m	superior conj	11364 Feb 20 13:11	7° $\mathcal{H}$ 03'41	0°10'20
desc. node	11361 Sep 09 02:27	28° $\mathcal{L}$ 36'05		minimum elong	11364 Feb 20 15:40	7° $\mathcal{H}$ 11'21	0°10'33
retrograde	11361 Sep 10 18:26	28° $\mathcal{L}$ 39'21		behind sun begin	11364 Feb 19 21:24	6° $\mathcal{H}$ 14'48	
evening set	11361 Sep 26 04:53	24° $\mathcal{L}$ 00'43		behind sun end	11364 Feb 21 09:56	8° $\mathcal{H}$ 07'53	
min. Earth dist.	11361 Oct 01 03:01	21° $\mathcal{L}$ 04'14	0.28093 AU	desc. node	11364 Feb 24 19:30	12° $\mathcal{H}$ 20'27	
inferior conj	11361 Oct 01 23:55	20° $\mathcal{L}$ 31'46	-5°20'47		11364 Mar 10 01:22	0° $\mathcal{Y}$	
minimum elong	11361 Oct 01 13:59	20° $\mathcal{L}$ 47'12	5°18'08	evening rise	11364 Mar 30 07:13	25° $\mathcal{Y}$ 09'43	
morning rise	11361 Oct 06 23:44	17° $\mathcal{L}$ 31'32			11364 Apr 03 04:29	0° $\mathcal{B}$	
direct	11361 Oct 23 03:21	12° $\mathcal{L}$ 34'35			11364 Apr 27 06:00	0° $\mathbb{I}$	
greatest brilliancy	11361 Nov 01 14:57	14° $\mathcal{L}$ 12'51	-4.8m		11364 May 21 07:29	0° $\mathcal{C}$	
	11361 Nov 27 01:03	0° $\mathbb{M}$			11364 Jun 14 11:36	0° $\mathcal{Q}$	
morning max el	11361 Dec 10 21:55	12° $\mathbb{M}$ 29'24	45°43'28	asc. node	11364 Jun 16 13:50	2° $\mathcal{Q}$ 35'15	
	11361 Dec 28 05:08	0° $\mathcal{A}$			11364 Jul 08 21:40	0° $\mathbb{M}$	
asc. node	11361 Dec 31 02:40	3° $\mathcal{A}$ 04'48			11364 Aug 02 18:37	0° $\mathcal{L}$	
	11362 Jan 24 08:59	0° $\mathcal{B}$			11364 Aug 28 12:00	0° $\mathbb{M}$	
	11362 Feb 19 02:02	0° $\approx$			11364 Sep 25 02:59	0° $\mathcal{A}$	
	11362 Mar 16 01:26	0° $\mathcal{H}$		evening max el	11364 Oct 01 12:13	6° $\mathcal{A}$ 22'58	46°03'36
	11362 Apr 09 14:24	0° $\mathcal{Y}$		desc. node	11364 Oct 06 12:28	11° $\mathcal{A}$ 11'04	
desc. node	11362 Apr 21 20:57	15° $\mathcal{Y}$ 08'49			11364 Oct 29 23:59	0° $\mathcal{B}$	
	11362 May 03 20:17	0° $\mathcal{B}$		greatest brilliancy	11364 Nov 09 16:11	5° $\mathcal{B}$ 17'37	-4.8m
	11362 May 27 21:13	0° $\mathbb{I}$		retrograde	11364 Nov 19 20:35	7° $\mathcal{B}$ 11'17	
morning set	11362 Jun 11 08:23	18° $\mathbb{I}$ 07'56		evening set	11364 Dec 08 02:07	0° $\mathcal{B}$ 57'13	
	11362 Jun 20 19:22	0° $\mathcal{C}$			11364 Dec 09 15:21	30° $\mathcal{R}$ $\mathcal{A}$	
	11362 Jul 14 16:57	0° $\mathcal{Q}$		inferior conj	11364 Dec 11 09:16	28° $\mathcal{A}$ 54'24	-8°25'58
				minimum elong	11364 Dec 11 14:27	28° $\mathcal{A}$ 46'16	8°24'52
superior conj	11362 Jul 21 06:49	8° $\mathcal{Q}$ 14'50	-0°50'58	min. Earth dist.	11364 Dec 11 13:04	28° $\mathcal{A}$ 48'26	0.29044 AU
minimum elong	11362 Jul 21 17:41	8° $\mathcal{Q}$ 48'53	0°51'07	morning rise	11364 Dec 15 02:44	26° $\mathcal{A}$ 35'50	
max. Earth dist.	11362 Jul 23 09:59	10° $\mathcal{Q}$ 55'07	1.71544 AU	direct	11365 Jan 01 19:36	20° $\mathcal{A}$ 38'26	
	11362 Aug 07 15:49	0° $\mathbb{M}$		greatest brilliancy	11365 Jan 12 11:11	22° $\mathcal{A}$ 41'57	-4.7m
asc. node	11362 Aug 12 13:14	6° $\mathbb{M}$ 06'53			11365 Jan 25 23:42	0° $\mathcal{B}$	
evening rise	11362 Aug 29 19:35	27° $\mathbb{M}$ 38'30		asc. node	11365 Jan 27 13:30	1° $\mathcal{B}$ 06'09	
	11362 Aug 31 17:04	0° $\mathcal{L}$		morning max el	11365 Feb 20 02:40	21° $\mathcal{B}$ 28'12	45°56'30
	11362 Sep 24 21:35	0° $\mathbb{M}$			11365 Feb 28 13:44	0° $\approx$	
	11362 Oct 19 06:49	0° $\mathcal{A}$			11365 Mar 28 00:16	0° $\mathcal{H}$	
	11362 Nov 12 23:06	0° $\mathcal{B}$			11365 Apr 22 17:04	0° $\mathcal{Y}$	
desc. node	11362 Dec 02 07:41	23° $\mathcal{B}$ 11'23			11365 May 17 14:07	0° $\mathcal{B}$	
	11362 Dec 08 01:27	0° $\approx$		desc. node	11365 May 19 10:06	2° $\mathcal{B}$ 14'07	
	11363 Jan 02 17:53	0° $\mathcal{H}$			11365 Jun 11 00:07	0° $\mathbb{I}$	
	11363 Jan 29 08:56	0° $\mathcal{Y}$			11365 Jul 05 04:05	0° $\mathcal{C}$	
evening max el	11363 Feb 24 18:46	27° $\mathcal{Y}$ 39'20	46°16'31		11365 Jul 29 05:40	0° $\mathcal{Q}$	
	11363 Feb 27 04:35	0° $\mathcal{B}$			11365 Aug 22 07:09	0° $\mathbb{M}$	
asc. node	11363 Mar 25 07:55	21° $\mathcal{B}$ 40'46		morning set	11365 Aug 24 07:18	2° $\mathbb{M}$ 29'57	
greatest brilliancy	11363 Apr 05 20:05	27° $\mathcal{B}$ 29'47	-4.8m	asc. node	11365 Sep 09 02:53	22° $\mathbb{M}$ 11'22	
retrograde	11363 Apr 15 12:24	29° $\mathcal{B}$ 15'25			11365 Sep 15 09:39	0° $\mathcal{L}$	
evening set	11363 May 02 12:54	23° $\mathcal{B}$ 41'43					
inferior conj	11363 May 06 06:34	21° $\mathcal{B}$ 25'20	8°29'02	superior conj	11365 Oct 01 19:40	20° $\mathcal{L}$ 23'38	0°51'30
minimum elong	11363 May 05 22:25	21° $\mathcal{B}$ 37'57	8°27'31	minimum elong	11365 Oct 01 10:02	19° $\mathcal{L}$ 53'45	0°51'17

max. Earth dist.	11365 Oct 03 21:30	22°♄58'17	1.72589 AU	direct	11368 Mar 12 20:49	29°♁04'41	
	11365 Oct 09 13:30	0°♍			11368 Mar 19 19:18	0°♁	
	11365 Nov 02 19:14	0°♁		greatest brilliancy	11368 Mar 23 15:09	1°♁13'59	-4.8m
evening rise	11365 Nov 07 21:21	6°♁16'52			11368 Apr 30 15:24	0°♁	
	11365 Nov 27 03:49	0°♄		morning max el	11368 May 02 00:15	1°♁21'44	46°40'23
	11365 Dec 21 16:18	0°♁			11368 May 28 17:26	0°♄	
desc. node	11365 Dec 29 19:25	9°♁53'58		desc. node	11368 Jun 15 22:24	20°♄57'32	
	11366 Jan 15 09:14	0°♁			11368 Jun 23 14:27	0°♁	
	11366 Feb 09 06:54	0°♁			11368 Jul 18 13:58	0°♄	
	11366 Mar 06 10:53	0°♄			11368 Aug 12 03:56	0°♄	
	11366 Apr 01 03:27	0°♁			11368 Sep 05 14:07	0°♁	
asc. node	11366 Apr 21 17:56	23°♁06'57			11368 Sep 29 22:54	0°♄	
	11366 Apr 28 03:18	0°♄		asc. node	11368 Oct 06 16:34	8°♄18'00	
evening max el	11366 May 08 19:36	11°♄02'55	46°48'57		11368 Oct 24 06:54	0°♍	
	11366 May 29 15:23	0°♄		morning set	11368 Nov 03 00:25	12°♍00'27	
greatest brilliancy	11366 Jun 18 04:52	11°♄45'48	-4.9m		11368 Nov 17 14:14	0°♁	
retrograde	11366 Jun 28 03:58	13°♄37'57					
evening set	11366 Jul 14 03:08	8°♄38'40		superior conj	11368 Dec 09 19:27	27°♁25'44	1°23'44
inferior conj	11366 Jul 18 20:14	5°♄49'52	5°45'46	minimum elong	11368 Dec 09 23:49	27°♁39'13	1°24'23
minimum elong	11366 Jul 19 07:05	5°♄33'17	5°42'23	max. Earth dist.	11368 Dec 10 12:02	28°♁16'54	1.73195 AU
min. Earth dist.	11366 Jul 19 01:36	5°♄41'40	0.27063 AU		11368 Dec 11 21:28	0°♄	
morning rise	11366 Jul 24 11:10	2°♄31'07			11369 Jan 05 05:23	0°♁	
	11366 Jul 29 18:33	30°♁		evening rise	11369 Jan 16 00:29	13°♁17'36	
direct	11366 Aug 08 13:36	28°♄03'16		desc. node	11369 Jan 26 08:06	25°♁59'31	
desc. node	11366 Aug 11 18:19	28°♄15'22			11369 Jan 29 14:17	0°♁	
greatest brilliancy	11366 Aug 18 12:40	29°♄54'41	-4.8m		11369 Feb 22 23:45	0°♁	
	11366 Aug 18 18:34	0°♄			11369 Mar 19 09:25	0°♄	
morning max el	11366 Sep 27 09:15	29°♄36'16	46°19'33		11369 Apr 12 20:09	0°♁	
	11366 Sep 27 18:57	0°♁			11369 May 07 11:15	0°♄	
	11366 Oct 26 08:27	0°♄		asc. node	11369 May 19 04:22	14°♄06'16	
	11366 Nov 21 20:39	0°♍			11369 Jun 01 13:10	0°♄	
asc. node	11366 Dec 02 16:48	12°♍36'54			11369 Jun 27 14:57	0°♁	
	11366 Dec 17 10:17	0°♁		evening max el	11369 Jul 20 04:35	24°♁02'08	46°40'28
	11367 Jan 11 10:27	0°♄			11369 Jul 26 06:39	0°♄	
	11367 Feb 05 01:59	0°♁		greatest brilliancy	11369 Aug 28 08:36	24°♄08'54	-4.8m
	11367 Mar 01 11:48	0°♁		retrograde	11369 Sep 08 09:15	26°♄23'34	
desc. node	11367 Mar 24 09:13	28°♁20'13		desc. node	11369 Sep 08 04:30	26°♄23'31	
morning set	11367 Mar 25 15:44	29°♁54'56		evening set	11369 Sep 23 17:35	21°♄48'43	
	11367 Mar 25 17:21	0°♁		min. Earth dist.	11369 Sep 28 18:34	18°♄48'29	0.28038 AU
	11367 Apr 18 19:17	0°♄		inferior conj	11369 Sep 29 14:50	18°♄17'01	-5°03'27
max. Earth dist.	11367 May 02 00:26	16°♄31'48	1.71600 AU	minimum elong	11369 Sep 29 05:10	18°♄32'02	5°00'50
				morning rise	11369 Oct 04 17:20	15°♄12'50	
superior conj	11367 May 04 15:30	19°♄49'19	-1°19'55	direct	11369 Oct 20 17:14	10°♄20'32	
minimum elong	11367 May 04 06:36	19°♄21'26	1°20'13	greatest brilliancy	11369 Oct 30 05:52	11°♄59'10	-4.8m
	11367 May 12 18:19	0°♁			11369 Nov 27 06:51	0°♍	
	11367 Jun 05 15:55	0°♄		morning max el	11369 Dec 08 11:33	10°♍13'11	45°43'56
evening rise	11367 Jun 13 19:49	10°♄14'45			11369 Dec 27 22:18	0°♁	
	11367 Jun 29 14:03	0°♄		asc. node	11369 Dec 30 04:37	2°♁25'18	
asc. node	11367 Jul 15 02:07	19°♄22'41			11370 Jan 23 22:46	0°♄	
	11367 Jul 23 14:43	0°♁			11370 Feb 18 14:21	0°♁	
	11367 Aug 16 19:53	0°♄			11370 Mar 15 13:02	0°♁	
	11367 Sep 10 08:07	0°♍			11370 Apr 09 01:36	0°♁	
	11367 Oct 05 07:52	0°♁		desc. node	11370 Apr 20 22:47	14°♁40'21	
	11367 Oct 31 03:27	0°♄			11370 May 03 07:15	0°♄	
desc. node	11367 Nov 03 22:39	4°♄17'48			11370 May 27 08:03	0°♁	
	11367 Nov 27 13:03	0°♁		morning set	11370 Jun 08 19:33	15°♁38'31	
evening max el	11367 Dec 12 18:07	15°♁17'01	45°50'01		11370 Jun 20 06:07	0°♄	
	11367 Dec 29 09:03	0°♁			11370 Jul 14 03:40	0°♄	
greatest brilliancy	11368 Jan 20 18:43	13°♁29'27	-4.8m				
retrograde	11368 Jan 30 13:29	15°♁13'34		superior conj	11370 Jul 18 19:02	5°♄49'11	-0°54'03
evening set	11368 Feb 14 12:20	10°♁53'04		minimum elong	11370 Jul 19 06:14	6°♄24'16	0°54'12
inferior conj	11368 Feb 20 15:55	7°♁12'22	-1°04'54	max. Earth dist.	11370 Jul 20 16:14	8°♄10'49	1.71515 AU
minimum elong	11368 Feb 20 18:21	7°♁08'34	1°03'49		11370 Aug 07 02:29	0°♁	
min. Earth dist.	11368 Feb 21 03:01	6°♁55'00	0.28070 AU	asc. node	11370 Aug 11 15:15	5°♁39'50	
asc. node	11368 Feb 24 23:57	4°♁33'00		evening rise	11370 Aug 27 09:48	25°♁20'11	
morning rise	11368 Feb 26 23:52	3°♁24'57			11370 Aug 31 03:44	0°♄	
	11368 Mar 06 02:58	30°♁			11370 Sep 24 08:18	0°♍	

	11370 Oct 18 17:44	0°♊			11373 Mar 27 14:39	0°♋		
	11370 Nov 12 10:27	0°♌			11373 Apr 22 05:46	0°♍		
desc. node	11370 Dec 01 09:33	22°♌41'34			11373 May 17 01:58	0°♎		
	11370 Dec 07 13:34	0°♏		desc. node	11373 May 18 11:57	1°♎43'44		
	11371 Jan 02 07:23	0°♐			11373 Jun 10 11:28	0°♏		
	11371 Jan 29 01:14	0°♑			11373 Jul 04 15:08	0°♐		
evening max el	11371 Feb 22 08:11	25°♑19'03	46°15'19		11373 Jul 28 16:29	0°♑		
	11371 Feb 27 04:50	0°♒		morning set	11373 Aug 21 21:13	0°♒10'40		
asc. node	11371 Mar 24 09:58	20°♒16'15			11373 Aug 21 17:48	0°♒		
greatest brilliancy	11371 Apr 03 08:45	25°♒06'58	-4.8m	asc. node	11373 Sep 08 04:42	21°♒44'13		
retrograde	11371 Apr 13 01:46	26°♒53'29			11373 Sep 14 20:10	0°♓		
evening set	11371 Apr 29 21:51	21°♒25'38						
inferior conj	11371 May 03 20:01	19°♒02'55	8°19'11	superior conj	11373 Sep 29 11:03	18°♓09'49	0°48'39	
minimum elong	11371 May 03 11:15	19°♒16'27	8°17'29	minimum elong	11373 Sep 29 01:40	17°♓40'42	0°48'25	
min. Earth dist.	11371 May 03 20:27	19°♒02'15	0.27389 AU	max. Earth dist.	11373 Oct 01 15:32	20°♓52'45	1.72556 AU	
morning rise	11371 May 07 00:32	17°♒05'46			11373 Oct 08 23:59	0°♔		
direct	11371 May 24 14:45	11°♒07'12			11373 Nov 02 05:43	0°♕		
greatest brilliancy	11371 Jun 03 12:51	12°♒58'24	-4.9m	evening rise	11373 Nov 05 14:06	4°♕08'06		
	11371 Jun 29 09:22	0°♖			11373 Nov 26 14:24	0°♗		
morning max el	11371 Jul 14 02:54	13°♖55'20	46°57'27		11373 Dec 21 03:07	0°♘		
desc. node	11371 Jul 14 09:50	14°♖12'49		desc. node	11373 Dec 28 21:26	9°♘26'49		
	11371 Jul 29 10:43	0°♙			11374 Jan 14 20:28	0°♚		
	11371 Aug 25 02:16	0°♑			11374 Feb 08 18:47	0°♛		
	11371 Sep 19 15:55	0°♒			11374 Mar 05 23:51	0°♜		
	11371 Oct 14 18:14	0°♓			11374 Mar 31 18:24	0°♝		
asc. node	11371 Nov 04 05:55	24°♓44'41		asc. node	11374 Apr 20 19:48	22°♝23'23		
	11371 Nov 08 13:53	0°♞			11374 Apr 27 22:45	0°♞		
	11371 Dec 03 04:33	0°♏		evening max el	11374 May 06 10:13	8°♞42'56	46°48'18	
	11371 Dec 27 15:28	0°♐			11374 May 30 07:41	0°♑		
morning set	11372 Jan 11 16:44	18°♐31'49		greatest brilliancy	11374 Jun 15 18:43	9°♑22'21	-4.9m	
	11372 Jan 20 23:56	0°♒		retrograde	11374 Jun 25 17:17	11°♑13'30		
	11372 Feb 14 06:46	0°♓		evening set	11374 Jul 11 19:32	6°♑09'51		
max. Earth dist.	11372 Feb 16 04:00	2°♓19'54	1.72784 AU	inferior conj	11374 Jul 16 09:04	3°♑25'46	6°04'29	
				minimum elong	11374 Jul 16 20:08	3°♑08'50	6°01'08	
superior conj	11372 Feb 18 04:18	4°♓49'21	0°13'49	min. Earth dist.	11374 Jul 16 14:49	3°♑16'58	0.27060 AU	
minimum elong	11372 Feb 18 07:33	4°♓59'26	0°14'00	morning rise	11374 Jul 21 20:54	0°♑11'06		
behind sun begin	11372 Feb 17 19:50	4°♓23'09			11374 Jul 22 05:02	30°♒♓		
behind sun end	11372 Feb 18 19:17	5°♓35'44		direct	11374 Aug 06 02:51	25°♓39'23		
desc. node	11372 Feb 23 21:30	11°♓54'03		desc. node	11374 Aug 10 20:21	26°♓05'33		
	11372 Mar 09 11:56	0°♑		greatest brilliancy	11374 Aug 16 00:57	27°♓30'03	-4.8m	
evening rise	11372 Mar 27 21:09	22°♑50'40			11374 Aug 21 17:52	0°♑		
	11372 Apr 02 15:09	0°♒		morning max el	11374 Sep 24 23:05	27°♑16'47	46°21'02	
	11372 Apr 26 16:50	0°♓			11374 Sep 27 17:09	0°♒		
	11372 May 20 18:34	0°♔			11374 Oct 26 00:08	0°♓		
	11372 Jun 13 23:02	0°♑			11374 Nov 21 09:52	0°♒		
asc. node	11372 Jun 15 15:47	2°♑05'50		asc. node	11374 Dec 01 18:41	12°♒05'32		
	11372 Jul 08 09:39	0°♒			11374 Dec 16 22:15	0°♓		
	11372 Aug 02 07:32	0°♓			11375 Jan 10 21:43	0°♔		
	11372 Aug 28 02:49	0°♔			11375 Feb 04 12:51	0°♕		
	11372 Sep 24 22:47	0°♕			11375 Feb 28 22:28	0°♖		
evening max el	11372 Sep 29 04:08	4°♕11'43	46°04'50	morning set	11375 Mar 23 05:12	27°♖34'54		
desc. node	11372 Oct 05 14:28	10°♕19'29		desc. node	11375 Mar 23 11:02	27°♖52'59		
	11372 Oct 31 09:22	0°♗			11375 Mar 25 03:57	0°♑		
greatest brilliancy	11372 Nov 07 06:22	3°♗06'21	-4.8m		11375 Apr 18 05:53	0°♒		
retrograde	11372 Nov 17 13:10	5°♗01'55		max. Earth dist.	11375 Apr 29 06:54	13°♗48'35	1.71634 AU	
	11372 Dec 03 17:03	30°♒♕						
evening set	11372 Dec 05 19:29	28°♒45'27		superior conj	11375 May 02 03:36	17°♗23'35	-1°18'15	
inferior conj	11372 Dec 09 01:19	26°♒44'37	-8°30'47	minimum elong	11375 May 01 18:05	16°♗53'47	1°18'30	
minimum elong	11372 Dec 09 05:50	26°♒37'33	8°29'47		11375 May 12 04:59	0°♝		
min. Earth dist.	11372 Dec 09 03:36	26°♒41'04	0.29049 AU		11375 Jun 05 02:38	0°♞		
morning rise	11372 Dec 12 16:11	24°♒30'12		evening rise	11375 Jun 11 06:42	7°♞44'35		
direct	11372 Dec 30 12:03	18°♒28'57			11375 Jun 29 00:51	0°♑		
greatest brilliancy	11373 Jan 10 01:43	20°♒31'07	-4.7m	asc. node	11375 Jul 14 04:05	18°♑54'51		
asc. node	11373 Jan 26 15:36	29°♒57'52			11375 Jul 23 01:39	0°♒		
	11373 Jan 26 16:45	0°♔			11375 Aug 16 07:04	0°♓		
morning max el	11373 Feb 17 19:11	19°♔18'37	45°55'13		11375 Sep 09 19:45	0°♔		
	11373 Feb 28 08:19	0°♕			11375 Oct 04 20:19	0°♕		

	11375 Oct 30 17:32	0°♄			11378 May 02 18:15	0°♄	
desc. node	11375 Nov 03 00:33	3°♄42'36			11378 May 26 18:54	0°♄	
	11375 Nov 27 07:04	0°♄	morning set		11378 Jun 06 06:58	13°♄09'52	
evening max el	11375 Dec 10 08:39	13°♄03'13 45°49'46			11378 Jun 19 16:53	0°♄	
	11375 Dec 29 20:16	0°♄			11378 Jul 13 14:24	0°♄	
greatest brilliancy	11376 Jan 18 10:17	11°♄16'36 -4.8m					
retrograde	11376 Jan 28 03:30	12°♄59'41	superior conj		11378 Jul 16 07:19	3°♄23'35 -0°57'01	
evening set	11376 Feb 12 04:46	8°♄37'02	minimum elong		11378 Jul 16 18:46	3°♄59'28 0°57'12	
inferior conj	11376 Feb 18 07:01	4°♄58'12 -1°26'25	max. Earth dist.		11378 Jul 17 23:59	5°♄31'03 1.71494 AU	
minimum elong	11376 Feb 18 10:14	4°♄53'09 1°25'03			11378 Aug 06 13:14	0°♄	
min. Earth dist.	11376 Feb 18 19:02	4°♄39'23 0.28107 AU	asc. node		11378 Aug 10 17:06	5°♄12'03	
asc. node	11376 Feb 24 01:52	1°♄28'27	evening rise		11378 Aug 24 23:54	23°♄01'05	
morning rise	11376 Feb 24 15:09	1°♄10'04			11378 Aug 30 14:31	0°♄	
	11376 Feb 26 21:19	30°♄			11378 Sep 23 19:12	0°♄	
direct	11376 Mar 10 11:48	26°♄49'58			11378 Oct 18 04:51	0°♄	
greatest brilliancy	11376 Mar 21 07:38	29°♄00'05 -4.8m			11378 Nov 11 22:00	0°♄	
	11376 Mar 23 16:57	0°♄	desc. node		11378 Nov 30 11:34	22°♄11'39	
morning max el	11376 Apr 29 13:50	29°♄01'22 46°38'56			11378 Dec 07 01:56	0°♄	
	11376 Apr 30 13:13	0°♄			11379 Jan 01 21:12	0°♄	
	11376 May 28 09:08	0°♄			11379 Jan 28 18:02	0°♄	
desc. node	11376 Jun 15 00:27	20°♄22'37	evening max el		11379 Feb 19 22:29	23°♄00'32 46°14'08	
	11376 Jun 23 03:55	0°♄			11379 Feb 27 06:38	0°♄	
	11376 Jul 18 02:20	0°♄	asc. node		11379 Mar 23 11:54	18°♄48'00	
	11376 Aug 11 15:37	0°♄	greatest brilliancy		11379 Mar 31 20:55	22°♄43'07 -4.8m	
	11376 Sep 05 01:20	0°♄	retrograde		11379 Apr 10 15:32	24°♄30'54	
	11376 Sep 29 09:48	0°♄	evening set		11379 Apr 27 06:46	19°♄08'59	
asc. node	11376 Oct 05 18:23	7°♄50'18	inferior conj		11379 May 01 09:24	16°♄39'48 8°08'24	
	11376 Oct 23 17:34	0°♄	minimum elong		11379 May 01 00:05	16°♄54'10 8°06'33	
morning set	11376 Oct 31 16:40	9°♄49'49	min. Earth dist.		11379 May 01 09:15	16°♄40'01 0.27400 AU	
	11376 Nov 17 00:46	0°♄	morning rise		11379 May 04 17:19	14°♄37'47	
			direct		11379 May 22 04:44	8°♄43'47	
superior conj	11376 Dec 07 12:38	25°♄18'16 1°24'26	greatest brilliancy		11379 Jun 01 02:25	10°♄35'10 -4.9m	
minimum elong	11376 Dec 07 16:19	25°♄29'38 1°25'06			11379 Jun 29 15:23	0°♄	
max. Earth dist.	11376 Dec 08 04:40	26°♄07'44 1.73190 AU	morning max el		11379 Jul 11 17:43	11°♄35'29 46°57'58	
	11376 Dec 11 07:58	0°♄	desc. node		11379 Jul 13 11:50	13°♄21'57	
	11377 Jan 04 15:57	0°♄			11379 Jul 29 04:40	0°♄	
evening rise	11377 Jan 13 16:37	11°♄06'51			11379 Aug 24 16:47	0°♄	
desc. node	11377 Jan 25 10:03	25°♄32'38			11379 Sep 19 04:49	0°♄	
	11377 Jan 29 01:00	0°♄			11379 Oct 14 06:13	0°♄	
	11377 Feb 22 10:43	0°♄	asc. node		11379 Nov 03 07:51	24°♄15'47	
	11377 Mar 18 20:42	0°♄			11379 Nov 08 01:16	0°♄	
	11377 Apr 12 07:55	0°♄			11379 Dec 02 15:33	0°♄	
	11377 May 06 23:47	0°♄			11379 Dec 27 02:15	0°♄	
asc. node	11377 May 18 06:21	13°♄33'06	morning set		11380 Jan 09 09:41	16°♄23'07	
	11377 Jun 01 03:04	0°♄			11380 Jan 20 10:39	0°♄	
	11377 Jun 27 07:41	0°♄			11380 Feb 13 17:29	0°♄	
evening max el	11377 Jul 17 18:14	21°♄40'39 46°41'22	max. Earth dist.		11380 Feb 13 23:19	0°♄18'01 1.72816 AU	
	11377 Jul 26 08:04	0°♄					
greatest brilliancy	11377 Aug 26 00:14	21°♄52'16 -4.8m	superior conj		11380 Feb 15 19:20	2°♄34'09 0°17'16	
retrograde	11377 Sep 05 23:53	24°♄06'40	minimum elong		11380 Feb 15 23:20	2°♄46'35 0°17'27	
desc. node	11377 Sep 07 06:26	24°♄04'44	desc. node		11380 Feb 22 23:14	11°♄26'11	
evening set	11377 Sep 21 06:07	19°♄35'02			11380 Mar 08 22:44	0°♄	
min. Earth dist.	11377 Sep 26 09:49	16°♄31'26 0.27983 AU	evening rise		11380 Mar 25 11:07	20°♄30'54	
inferior conj	11377 Sep 27 05:28	16°♄01'00 -4°45'21			11380 Apr 02 02:06	0°♄	
minimum elong	11377 Sep 26 20:06	16°♄15'30 4°42'46			11380 Apr 26 03:58	0°♄	
morning rise	11377 Oct 02 10:37	12°♄53'09			11380 May 20 05:57	0°♄	
direct	11377 Oct 18 06:46	8°♄05'01			11380 Jun 13 10:44	0°♄	
greatest brilliancy	11377 Oct 27 20:47	9°♄44'38 -4.8m	asc. node		11380 Jun 14 17:47	1°♄35'49	
	11377 Nov 27 10:52	0°♄			11380 Jul 07 21:53	0°♄	
morning max el	11377 Dec 06 01:33	7°♄57'30 45°44'32			11380 Aug 01 20:43	0°♄	
	11377 Dec 27 15:10	0°♄			11380 Aug 27 18:01	0°♄	
asc. node	11377 Dec 29 06:43	1°♄46'25			11380 Sep 24 19:31	0°♄	
	11378 Jan 23 12:28	0°♄	evening max el		11380 Sep 26 20:30	2°♄00'53 46°05'53	
	11378 Feb 18 02:40	0°♄	desc. node		11380 Oct 04 16:22	9°♄25'59	
	11378 Mar 15 00:39	0°♄			11380 Nov 02 13:13	0°♄	
	11378 Apr 08 12:50	0°♄	greatest brilliancy		11380 Nov 04 20:56	0°♄54'40 -4.8m	
desc. node	11378 Apr 20 00:40	14°♄11'50	retrograde		11380 Nov 15 05:34	2°♄51'27	



	11380 Nov 27 05:25	30°R♄		superior conj	11383 Apr 29 15:41	14°♄56'55	-1°16'26
evening set	11380 Dec 03 12:36	26°♄33'21		minimum elong	11383 Apr 29 05:38	14°♄25'30	1°16'39
inferior conj	11380 Dec 06 17:25	24°♄33'55	-8°34'48		11383 May 11 15:57	0°♄	
minimum elong	11380 Dec 06 21:11	24°♄27'59	8°33'55		11383 Jun 04 13:41	0°♄	
min. Earth dist.	11380 Dec 06 18:09	24°♄32'47	0.29051 AU	evening rise	11383 Jun 08 17:37	5°♄13'32	
morning rise	11380 Dec 10 05:50	22°♄23'12			11383 Jun 28 12:00	0°♄	
direct	11380 Dec 28 04:45	16°♄18'42		asc. node	11383 Jul 13 05:57	18°♄25'32	
greatest brilliancy	11381 Jan 07 16:01	18°♄18'57	-4.7m		11383 Jul 22 12:58	0°♄	
asc. node	11381 Jan 25 17:29	28°♄50'06			11383 Aug 15 18:39	0°♄	
	11381 Jan 27 05:53	0°♄			11383 Sep 09 07:44	0°♄	
morning max el	11381 Feb 15 11:04	17°♄06'33	45°53'56		11383 Oct 04 09:06	0°♄	
	11381 Feb 28 02:47	0°♄			11383 Oct 30 08:00	0°♄	
	11381 Mar 27 05:10	0°♄		desc. node	11383 Nov 02 02:38	3°♄07'02	
	11381 Apr 21 18:41	0°♄			11383 Nov 27 01:47	0°♄	
	11381 May 16 14:04	0°♄		evening max el	11383 Dec 07 22:26	10°♄47'04	45°49'32
desc. node	11381 May 17 13:55	1°♄12'50			11383 Dec 30 11:44	0°♄	
	11381 Jun 09 23:07	0°♄		greatest brilliancy	11384 Jan 16 01:39	9°♄02'58	-4.8m
	11381 Jul 04 02:29	0°♄		retrograde	11384 Jan 25 17:47	10°♄45'36	
	11381 Jul 28 03:35	0°♄		evening set	11384 Feb 09 21:25	6°♄20'09	
morning set	11381 Aug 19 11:30	27°♄51'35		inferior conj	11384 Feb 15 22:15	2°♄43'31	-1°47'36
	11381 Aug 21 04:42	0°♄		minimum elong	11384 Feb 16 02:15	2°♄37'16	1°46'00
asc. node	11381 Sep 07 06:32	21°♄16'13		min. Earth dist.	11384 Feb 16 11:10	2°♄23'19	0.28151 AU
	11381 Sep 14 06:57	0°♄			11384 Feb 20 08:51	30°R♄	
				morning rise	11384 Feb 22 06:24	28°♄55'08	
superior conj	11381 Sep 27 02:45	15°♄56'10	0°45'46	asc. node	11384 Feb 23 03:51	28°♄26'19	
minimum elong	11381 Sep 26 17:41	15°♄28'01	0°45'30	direct	11384 Mar 08 02:50	24°♄34'29	
max. Earth dist.	11381 Sep 29 11:05	18°♄51'05	1.72521 AU	greatest brilliancy	11384 Mar 19 00:41	26°♄46'10	-4.8m
	11381 Oct 08 10:42	0°♄			11384 Mar 25 18:52	0°♄	
	11381 Nov 01 16:30	0°♄		morning max el	11384 Apr 27 04:02	26°♄41'31	46°37'30
evening rise	11381 Nov 03 07:05	1°♄59'08			11384 Apr 30 10:38	0°♄	
	11381 Nov 26 01:19	0°♄			11384 May 28 00:54	0°♄	
	11381 Dec 20 14:17	0°♄		desc. node	11384 Jun 14 02:26	19°♄46'48	
desc. node	11381 Dec 27 23:20	8°♄58'16			11384 Jun 22 17:34	0°♄	
	11382 Jan 14 08:04	0°♄			11384 Jul 17 14:53	0°♄	
	11382 Feb 08 07:05	0°♄			11384 Aug 11 03:32	0°♄	
	11382 Mar 05 13:18	0°♄			11384 Sep 04 12:49	0°♄	
	11382 Mar 31 09:57	0°♄			11384 Sep 28 20:58	0°♄	
asc. node	11382 Apr 19 21:51	21°♄38'42		asc. node	11384 Oct 04 20:20	7°♄22'09	
	11382 Apr 27 19:15	0°♄			11384 Oct 23 04:29	0°♄	
evening max el	11382 May 03 23:55	6°♄19'31	46°47'30	morning set	11384 Oct 29 09:03	7°♄38'39	
	11382 May 31 06:25	0°♄			11384 Nov 16 11:31	0°♄	
greatest brilliancy	11382 Jun 13 09:08	6°♄58'20	-4.9m				
retrograde	11382 Jun 23 06:01	8°♄47'49		superior conj	11384 Dec 05 06:04	23°♄10'58	1°25'01
evening set	11382 Jul 09 11:58	3°♄39'47		minimum elong	11384 Dec 05 09:04	23°♄20'14	1°25'42
inferior conj	11382 Jul 13 21:55	1°♄00'37	6°22'28	max. Earth dist.	11384 Dec 05 22:29	24°♄01'38	1.73182 AU
minimum elong	11382 Jul 14 09:06	0°♄43'28	6°19'12		11384 Dec 10 18:39	0°♄	
min. Earth dist.	11382 Jul 14 04:22	0°♄50'44	0.27058 AU		11385 Jan 04 02:41	0°♄	
	11382 Jul 15 13:33	30°R♄		evening rise	11385 Jan 11 09:06	8°♄56'43	
morning rise	11382 Jul 19 06:20	27°♄50'12		desc. node	11385 Jan 24 11:52	25°♄04'42	
direct	11382 Aug 03 15:38	23°♄14'15			11385 Jan 28 11:56	0°♄	
desc. node	11382 Aug 09 22:14	23°♄59'41			11385 Feb 21 21:55	0°♄	
greatest brilliancy	11382 Aug 13 13:47	25°♄04'43	-4.9m		11385 Mar 18 08:16	0°♄	
	11382 Aug 23 13:25	0°♄			11385 Apr 11 20:01	0°♄	
morning max el	11382 Sep 22 11:58	24°♄53'50	46°22'47		11385 May 06 12:41	0°♄	
	11382 Sep 27 14:52	0°♄		asc. node	11385 May 17 08:22	12°♄58'58	
	11382 Oct 25 15:51	0°♄			11385 May 31 17:24	0°♄	
	11382 Nov 20 23:13	0°♄			11385 Jun 27 01:03	0°♄	
asc. node	11382 Nov 30 20:44	11°♄34'02		evening max el	11385 Jul 15 08:00	19°♄18'46	46°42'22
	11382 Dec 16 10:26	0°♄			11385 Jul 26 11:18	0°♄	
	11383 Jan 10 09:16	0°♄		greatest brilliancy	11385 Aug 23 15:11	19°♄33'50	-4.8m
	11383 Feb 04 00:03	0°♄		retrograde	11385 Sep 03 14:50	21°♄48'47	
	11383 Feb 28 09:28	0°♄		desc. node	11385 Sep 06 08:27	21°♄39'43	
morning set	11383 Mar 20 18:40	25°♄13'44		evening set	11385 Sep 18 18:41	17°♄19'50	
desc. node	11383 Mar 22 12:55	27°♄24'50		min. Earth dist.	11385 Sep 24 00:41	14°♄13'28	0.27929 AU
	11383 Mar 24 14:53	0°♄		inferior conj	11385 Sep 24 19:55	13°♄43'45	-4°26'42
	11383 Apr 17 16:49	0°♄		minimum elong	11385 Sep 24 10:57	13°♄57'37	4°24'10
max. Earth dist.	11383 Apr 26 14:00	11°♄06'23	1.71671 AU	morning rise	11385 Sep 30 03:44	10°♄32'33	

direct	11385 Oct 15 20:27	5° $\Omega$ 48'14			11388 Jun 12 22:23	0° $\Omega$	
greatest brilliancy	11385 Oct 25 11:19	7° $\Omega$ 28'47	-4.8m	asc. node	11388 Jun 13 19:37	1° $\Omega$ 05'28	
	11385 Nov 27 13:28	0° $\mathbb{M}$			11388 Jul 07 10:07	0° $\mathbb{M}$	
morning max el	11385 Dec 03 16:26	5° $\mathbb{M}$ 43'28	45°45'21		11388 Aug 01 10:00	0° $\Omega$	
	11385 Dec 27 07:49	0° $\mathbb{A}$			11388 Aug 27 09:27	0° $\mathbb{M}$	
asc. node	11385 Dec 28 08:32	1° $\mathbb{A}$ 06'52		evening max el	11388 Sep 24 12:21	29° $\mathbb{M}$ 48'38	46°07'00
	11386 Jan 23 02:06	0° $\mathbb{B}$			11388 Sep 24 17:00	0° $\mathbb{A}$	
	11386 Feb 17 14:59	0° $\approx$		desc. node	11388 Oct 03 18:28	8° $\mathbb{A}$ 31'54	
	11386 Mar 14 12:18	0° $\mathbb{H}$		greatest brilliancy	11388 Nov 02 11:58	28° $\mathbb{A}$ 43'28	-4.8m
	11386 Apr 08 00:08	0° $\mathbb{Y}$			11388 Nov 06 20:55	0° $\mathbb{B}$	
desc. node	11386 Apr 19 02:38	13° $\mathbb{Y}$ 43'15		retrograde	11388 Nov 12 21:24	0° $\mathbb{B}$ 40'45	
	11386 May 02 05:22	0° $\mathbb{B}$			11388 Nov 18 17:32	30° $\mathbb{R}$ $\mathbb{A}$	
	11386 May 26 05:54	0° $\mathbb{I}$		evening set	11388 Dec 01 05:21	24° $\mathbb{A}$ 21'40	
morning set	11386 Jun 03 18:05	10° $\mathbb{I}$ 39'44		inferior conj	11388 Dec 04 09:22	22° $\mathbb{A}$ 23'14	-8°38'15
	11386 Jun 19 03:49	0° $\mathbb{C}$		minimum elong	11388 Dec 04 12:23	22° $\mathbb{A}$ 18'29	8°37'26
	11386 Jul 13 01:18	0° $\Omega$		min. Earth dist.	11388 Dec 04 08:44	22° $\mathbb{A}$ 24'13	0.29048 AU
				morning rise	11388 Dec 07 19:30	20° $\mathbb{A}$ 15'48	
superior conj	11386 Jul 13 19:10	0° $\Omega$ 56'02	-0°59'54	direct	11388 Dec 25 21:03	14° $\mathbb{A}$ 08'33	
minimum elong	11386 Jul 14 06:47	1° $\Omega$ 32'29	1°00'07	greatest brilliancy	11389 Jan 05 06:13	16° $\mathbb{A}$ 06'47	-4.7m
max. Earth dist.	11386 Jul 15 09:32	2° $\Omega$ 56'21	1.71473 AU	asc. node	11389 Jan 24 19:28	27° $\mathbb{A}$ 44'39	
	11386 Aug 06 00:07	0° $\mathbb{M}$			11389 Jan 27 15:25	0° $\mathbb{B}$	
asc. node	11386 Aug 09 18:54	4° $\mathbb{M}$ 43'41		morning max el	11389 Feb 13 02:00	14° $\mathbb{B}$ 52'37	45°52'50
evening rise	11386 Aug 22 13:39	20° $\mathbb{M}$ 40'36			11389 Feb 27 20:34	0° $\approx$	
	11386 Aug 30 01:25	0° $\Omega$			11389 Mar 26 19:16	0° $\mathbb{H}$	
	11386 Sep 23 06:12	0° $\mathbb{M}$			11389 Apr 21 07:14	0° $\mathbb{Y}$	
	11386 Oct 17 16:06	0° $\mathbb{A}$			11389 May 16 01:50	0° $\mathbb{B}$	
	11386 Nov 11 09:42	0° $\mathbb{B}$		desc. node	11389 May 16 15:49	0° $\mathbb{B}$ 42'46	
desc. node	11386 Nov 29 13:31	21° $\mathbb{B}$ 41'11			11389 Jun 09 10:26	0° $\mathbb{I}$	
	11386 Dec 06 14:25	0° $\approx$			11389 Jul 03 13:32	0° $\mathbb{C}$	
	11387 Jan 01 11:08	0° $\mathbb{H}$			11389 Jul 27 14:27	0° $\Omega$	
	11387 Jan 28 11:08	0° $\mathbb{Y}$		morning set	11389 Aug 17 01:20	25° $\Omega$ 31'40	
evening max el	11387 Feb 17 13:25	20° $\mathbb{Y}$ 44'03	46°12'55		11389 Aug 20 15:25	0° $\mathbb{M}$	
	11387 Feb 27 09:49	0° $\mathbb{B}$		asc. node	11389 Sep 06 08:31	20° $\mathbb{M}$ 49'17	
asc. node	11387 Mar 22 13:55	17° $\mathbb{B}$ 17'06			11389 Sep 13 17:33	0° $\Omega$	
greatest brilliancy	11387 Mar 29 08:58	20° $\mathbb{B}$ 19'42	-4.8m				
retrograde	11387 Apr 08 05:22	22° $\mathbb{B}$ 08'30		superior conj	11389 Sep 24 17:52	13° $\Omega$ 41'16	0°42'46
evening set	11387 Apr 24 15:51	16° $\mathbb{B}$ 52'42		minimum elong	11389 Sep 24 09:11	13° $\Omega$ 14'17	0°42'28
inferior conj	11387 Apr 28 22:50	14° $\mathbb{B}$ 16'57	7°56'48	max. Earth dist.	11389 Sep 27 04:23	16° $\Omega$ 42'58	1.72483 AU
minimum elong	11387 Apr 28 13:03	14° $\mathbb{B}$ 32'02	7°54'47		11389 Oct 07 21:16	0° $\mathbb{M}$	
min. Earth dist.	11387 Apr 28 21:58	14° $\mathbb{B}$ 18'16	0.27416 AU	evening rise	11389 Oct 31 23:31	29° $\mathbb{M}$ 49'02	
morning rise	11387 May 02 10:13	12° $\mathbb{B}$ 09'49			11389 Nov 01 03:04	0° $\mathbb{A}$	
direct	11387 May 19 19:03	6° $\mathbb{B}$ 20'46			11389 Nov 25 12:01	0° $\mathbb{B}$	
greatest brilliancy	11387 May 29 15:45	8° $\mathbb{B}$ 11'38	-4.9m		11389 Dec 20 01:15	0° $\approx$	
	11387 Jun 29 19:34	0° $\mathbb{I}$		desc. node	11389 Dec 27 01:10	8° $\approx$ 30'11	
morning max el	11387 Jul 09 08:24	9° $\mathbb{I}$ 14'58	46°58'11		11390 Jan 13 19:29	0° $\mathbb{H}$	
desc. node	11387 Jul 12 13:41	12° $\mathbb{I}$ 31'20			11390 Feb 07 19:13	0° $\mathbb{Y}$	
	11387 Jul 28 22:22	0° $\mathbb{C}$			11390 Mar 05 02:35	0° $\mathbb{B}$	
	11387 Aug 24 07:15	0° $\Omega$			11390 Mar 31 01:20	0° $\mathbb{I}$	
	11387 Sep 18 17:42	0° $\mathbb{M}$		asc. node	11390 Apr 18 23:53	20° $\mathbb{I}$ 54'41	
	11387 Oct 13 18:09	0° $\Omega$			11390 Apr 27 15:56	0° $\mathbb{C}$	
asc. node	11387 Nov 02 09:47	23° $\Omega$ 46'57		evening max el	11390 May 01 12:36	3° $\mathbb{C}$ 54'55	46°46'48
	11387 Nov 07 12:36	0° $\mathbb{M}$			11390 Jun 01 12:49	0° $\Omega$	
	11387 Dec 02 02:31	0° $\mathbb{A}$		greatest brilliancy	11390 Jun 10 23:44	4° $\Omega$ 36'11	-4.9m
	11387 Dec 26 13:00	0° $\mathbb{B}$		retrograde	11390 Jun 20 18:27	6° $\Omega$ 24'02	
morning set	11388 Jan 07 02:44	14° $\mathbb{B}$ 14'56		evening set	11390 Jul 07 04:34	1° $\Omega$ 11'15	
	11388 Jan 19 21:18	0° $\approx$			11390 Jul 09 04:45	30° $\mathbb{R}$ $\mathbb{C}$	
max. Earth dist.	11388 Feb 11 17:15	28° $\approx$ 12'14	1.72841 AU	inferior conj	11390 Jul 11 10:56	28° $\mathbb{C}$ 37'13	6°39'38
				minimum elong	11390 Jul 11 22:07	28° $\mathbb{C}$ 20'01	6°36'28
superior conj	11388 Feb 13 10:43	0° $\mathbb{H}$ 20'25	0°20'39	min. Earth dist.	11390 Jul 11 18:09	28° $\mathbb{C}$ 26'07	0.27061 AU
minimum elong	11388 Feb 13 15:27	0° $\mathbb{H}$ 35'03	0°20'50	morning rise	11390 Jul 16 15:44	25° $\mathbb{C}$ 31'27	
	11388 Feb 13 04:07	0° $\mathbb{H}$		direct	11390 Aug 01 04:10	20° $\mathbb{C}$ 50'37	
desc. node	11388 Feb 22 01:10	10° $\mathbb{H}$ 59'12		desc. node	11390 Aug 09 00:18	22° $\mathbb{C}$ 00'27	
	11388 Mar 08 09:24	0° $\mathbb{Y}$		greatest brilliancy	11390 Aug 11 03:14	22° $\mathbb{C}$ 41'31	-4.9m
evening rise	11388 Mar 23 01:24	18° $\mathbb{Y}$ 12'41			11390 Aug 24 18:39	0° $\Omega$	
	11388 Apr 01 12:53	0° $\mathbb{B}$		morning max el	11390 Sep 20 00:35	22° $\Omega$ 31'00	46°24'20
	11388 Apr 25 14:57	0° $\mathbb{I}$			11390 Sep 27 11:26	0° $\mathbb{M}$	
	11388 May 19 17:13	0° $\mathbb{C}$			11390 Oct 25 07:03	0° $\Omega$	

	11390 Nov 20 12:13	0°♍			11393 May 31 07:33	0°♏	
asc. node	11390 Nov 29 22:34	11°♍02'48			11393 Jun 26 18:22	0°♐	
	11390 Dec 15 22:17	0°♑	evening max el		11393 Jul 12 22:47	17°♐00'52	46°43'33
	11391 Jan 09 20:27	0°♒			11393 Jul 26 15:36	0°♑	
	11391 Feb 03 10:52	0°♓	greatest brilliancy		11393 Aug 21 05:57	17°♑17'00	-4.8m
	11391 Feb 27 20:08	0°♈	retrograde		11393 Sep 01 06:29	19°♑32'49	
morning set	11391 Mar 18 08:07	22°♈53'35	desc. node		11393 Sep 05 10:28	19°♑11'35	
desc. node	11391 Mar 21 14:50	26°♈57'53	evening set		11393 Sep 16 07:41	15°♑06'19	
	11391 Mar 24 01:29	0°♉	min. Earth dist.		11393 Sep 21 15:23	11°♑57'50	0.27874 AU
	11391 Apr 17 03:25	0°♊	inferior conj		11393 Sep 22 10:32	11°♑28'18	-4°07'36
max. Earth dist.	11391 Apr 23 23:12	8°♊31'57	1.71705 AU	minimum elong	11393 Sep 22 02:01	11°♑41'26	4°05'10
				morning rise	11393 Sep 27 20:58	8°♑14'01	
superior conj	11391 Apr 27 03:54	12°♊31'53	-1°14'30	direct	11393 Oct 13 10:49	3°♑33'26	
minimum elong	11391 Apr 26 17:25	11°♊59'03	1°14'38	greatest brilliancy	11393 Oct 23 01:25	5°♑14'15	-4.8m
	11391 May 11 02:33	0°♋			11393 Nov 27 14:02	0°♌	
	11391 Jun 04 00:18	0°♌		morning max el	11393 Dec 01 07:57	3°♌32'18	45°45'55
evening rise	11391 Jun 06 04:53	2°♌44'56			11393 Dec 26 23:46	0°♍	
	11391 Jun 27 22:41	0°♎		asc. node	11393 Dec 27 10:30	0°♍29'12	
asc. node	11391 Jul 12 07:49	17°♎57'44			11394 Jan 22 15:20	0°♒	
	11391 Jul 21 23:49	0°♏			11394 Feb 17 03:00	0°♓	
	11391 Aug 15 05:47	0°♐			11394 Mar 13 23:42	0°♈	
	11391 Sep 08 19:21	0°♑			11394 Apr 07 11:11	0°♉	
	11391 Oct 03 21:37	0°♒	desc. node		11394 Apr 18 04:27	13°♉15'03	
	11391 Oct 29 22:20	0°♓			11394 May 01 16:12	0°♊	
desc. node	11391 Nov 01 04:33	2°♓31'36			11394 May 25 16:38	0°♋	
	11391 Nov 26 20:44	0°♔		morning set	11394 Jun 01 05:06	8°♋10'12	
evening max el	11391 Dec 05 12:12	8°♔31'47	45°49'28		11394 Jun 18 14:30	0°♌	
	11391 Dec 31 08:11	0°♍					
greatest brilliancy	11392 Jan 13 16:22	6°♍49'24	-4.8m	superior conj	11394 Jul 11 06:58	28°♌29'04	-1°02'41
retrograde	11392 Jan 23 08:31	8°♍32'17		minimum elong	11394 Jul 11 18:40	29°♌05'47	1°02'55
evening set	11392 Feb 07 14:04	4°♍03'39			11394 Jul 12 11:57	0°♎	
inferior conj	11392 Feb 13 13:19	0°♍29'23	-2°08'37	max. Earth dist.	11394 Jul 12 20:10	0°♎25'46	1.71450 AU
minimum elong	11392 Feb 13 18:03	0°♍22'00	2°06'47		11394 Aug 05 10:44	0°♏	
min. Earth dist.	11392 Feb 14 02:52	0°♍08'14	0.28196 AU	asc. node	11394 Aug 08 20:54	4°♏16'46	
	11392 Feb 14 08:09	30°♎		evening rise	11394 Aug 20 03:28	18°♏21'04	
morning rise	11392 Feb 19 21:21	26°♎41'18			11394 Aug 29 12:02	0°♐	
asc. node	11392 Feb 22 05:55	25°♎27'59			11394 Sep 22 16:53	0°♑	
direct	11392 Mar 05 17:56	22°♎19'35			11394 Oct 17 03:01	0°♒	
greatest brilliancy	11392 Mar 16 17:19	24°♎32'46	-4.8m		11394 Nov 10 21:06	0°♓	
	11392 Mar 27 03:25	0°♈		desc. node	11394 Nov 28 15:22	21°♓11'16	
morning max el	11392 Apr 24 19:02	24°♈24'50	46°36'08		11394 Dec 06 02:41	0°♔	
	11392 Apr 30 06:55	0°♉			11395 Jan 01 01:01	0°♈	
	11392 May 27 16:03	0°♊			11395 Jan 28 04:27	0°♉	
desc. node	11392 Jun 13 04:13	19°♊11'52		evening max el	11395 Feb 15 04:32	18°♉28'21	46°11'34
	11392 Jun 22 06:41	0°♋			11395 Feb 27 14:42	0°♊	
	11392 Jul 17 02:56	0°♌		asc. node	11395 Mar 21 15:56	15°♊43'02	
	11392 Aug 10 14:56	0°♎		greatest brilliancy	11395 Mar 26 21:38	17°♊57'15	-4.8m
	11392 Sep 03 23:47	0°♏		retrograde	11395 Apr 05 18:49	19°♊46'08	
	11392 Sep 28 07:39	0°♐		evening set	11395 Apr 22 01:00	14°♊36'42	
asc. node	11392 Oct 03 22:11	6°♐55'07		inferior conj	11395 Apr 26 12:13	11°♊54'26	7°44'22
	11392 Oct 22 14:58	0°♑		minimum elong	11395 Apr 26 02:04	12°♊10'09	7°42'11
morning set	11392 Oct 27 01:22	5°♑28'33		min. Earth dist.	11395 Apr 26 10:59	11°♊56'22	0.27428 AU
	11392 Nov 15 21:53	0°♒		morning rise	11395 Apr 30 03:07	9°♊41'56	
				direct	11395 May 17 09:10	3°♊58'13	
superior conj	11392 Dec 02 23:17	21°♒04'00	1°25'29	greatest brilliancy	11395 May 27 05:11	5°♊48'27	-4.9m
minimum elong	11392 Dec 03 01:34	21°♒11'03	1°26'09		11395 Jun 29 21:56	0°♋	
max. Earth dist.	11392 Dec 03 16:52	21°♒58'18	1.73179 AU	morning max el	11395 Jul 06 22:07	6°♋52'23	46°58'20
	11392 Dec 10 05:00	0°♓		desc. node	11395 Jul 11 15:47	11°♋42'36	
	11393 Jan 03 13:08	0°♔			11395 Jul 28 15:31	0°♌	
evening rise	11393 Jan 09 01:19	6°♔46'43			11395 Aug 23 21:23	0°♍	
desc. node	11393 Jan 23 13:47	24°♔38'02			11395 Sep 18 06:20	0°♎	
	11393 Jan 27 22:33	0°♍			11395 Oct 13 05:51	0°♏	
	11393 Feb 21 08:48	0°♉		asc. node	11395 Nov 01 11:37	23°♏18'25	
	11393 Mar 17 19:32	0°♊			11395 Nov 06 23:43	0°♑	
	11393 Apr 11 07:50	0°♋			11395 Dec 01 13:16	0°♒	
	11393 May 06 01:21	0°♌			11395 Dec 25 23:35	0°♓	
asc. node	11393 May 16 10:12	12°♌25'11		morning set	11396 Jan 04 20:03	12°♓08'02	

	11396 Jan 19 07:49	0°♊		minimum elong	11398 Jul 09 10:55	25°♊54'56	6°53'04
max. Earth dist.	11396 Feb 09 09:40	26°♊02'00	1.72873 AU	min. Earth dist.	11398 Jul 09 07:49	25°♊59'41	0.27066 AU
				morning rise	11398 Jul 14 00:47	23°♊11'27	
superior conj	11396 Feb 11 02:17	28°♊07'32	0°24'00	direct	11398 Jul 29 16:17	18°♊25'00	
minimum elong	11396 Feb 11 07:42	28°♊24'16	0°24'10	desc. node	11398 Aug 08 02:20	20°♊04'23	
	11396 Feb 12 14:39	0°♋		greatest brilliancy	11398 Aug 08 16:41	20°♊16'52	-4.9m
desc. node	11396 Feb 21 03:08	10°♋32'30			11398 Aug 25 16:32	0°♌	
	11396 Mar 07 20:03	0°♍		morning max el	11398 Sep 17 13:39	20°♌08'03	46°26'03
evening rise	11396 Mar 20 15:34	15°♍54'10			11398 Sep 27 07:44	0°♍	
	11396 Mar 31 23:42	0°♎			11398 Oct 24 22:20	0°♎	
	11396 Apr 25 01:58	0°♏			11398 Nov 20 01:23	0°♏	
	11396 May 19 04:31	0°♐		asc. node	11398 Nov 29 00:29	10°♐31'08	
	11396 Jun 12 10:04	0°♑			11398 Dec 15 10:20	0°♑	
asc. node	11396 Jun 12 21:34	0°♑35'27			11399 Jan 09 07:52	0°♒	
	11396 Jul 06 22:24	0°♒			11399 Feb 02 21:56	0°♓	
	11396 Jul 31 23:23	0°♓			11399 Feb 27 07:01	0°♋	
	11396 Aug 27 01:07	0°♌		morning set	11399 Mar 15 22:13	20°♋34'49	
evening max el	11396 Sep 22 03:36	27°♌34'52	46°08'13	desc. node	11399 Mar 20 16:40	26°♋29'54	
	11396 Sep 24 15:17	0°♍			11399 Mar 23 12:20	0°♍	
desc. node	11396 Oct 02 20:25	7°♍36'37			11399 Apr 16 14:17	0°♎	
greatest brilliancy	11396 Oct 31 03:53	26°♍33'45	-4.8m	max. Earth dist.	11399 Apr 21 11:56	6°♎07'40	1.71748 AU
retrograde	11396 Nov 10 13:09	28°♍31'01					
evening set	11396 Nov 28 22:02	22°♍11'31		superior conj	11399 Apr 24 16:22	10°♎06'40	-1°12'25
inferior conj	11396 Dec 02 01:36	20°♍13'38	-8°40'55	minimum elong	11399 Apr 24 05:30	9°♎32'39	1°12'30
minimum elong	11396 Dec 02 03:51	20°♍10'05	8°40'09		11399 May 10 13:29	0°♏	
min. Earth dist.	11396 Dec 01 23:54	20°♍16'18	0.29039 AU		11399 Jun 03 11:19	0°♐	
morning rise	11396 Dec 05 09:44	18°♍09'03		evening rise	11399 Jun 03 16:05	0°♑14'56	
direct	11396 Dec 23 13:07	11°♍59'29			11399 Jun 27 09:50	0°♒	
greatest brilliancy	11397 Jan 02 21:00	13°♍56'04	-4.7m	asc. node	11399 Jul 11 09:48	17°♒28'51	
asc. node	11397 Jan 23 21:32	26°♍41'36			11399 Jul 21 11:09	0°♒	
	11397 Jan 27 22:03	0°♓			11399 Aug 14 17:23	0°♓	
morning max el	11397 Feb 10 16:17	12°♓37'21	45°51'39		11399 Sep 08 07:27	0°♌	
	11397 Feb 27 13:52	0°♔			11399 Oct 03 10:38	0°♍	
	11397 Mar 26 09:16	0°♋			11399 Oct 29 13:17	0°♎	
	11397 Apr 20 19:51	0°♍		desc. node	11399 Oct 31 06:28	1°♓54'45	
desc. node	11397 May 15 17:42	0°♎12'06			11399 Nov 26 16:41	0°♔	
	11397 May 15 13:45	0°♎		evening max el	11399 Dec 03 03:01	6°♔18'09	45°49'34
	11397 Jun 08 21:56	0°♏			11400 Jan 01 12:50	0°♋	
	11397 Jul 03 00:45	0°♐		greatest brilliancy	11400 Jan 11 06:55	4°♋35'20	-4.8m
	11397 Jul 27 01:27	0°♑		retrograde	11400 Jan 21 00:00	6°♋18'53	
morning set	11397 Aug 14 14:57	23°♑10'32		evening set	11400 Feb 05 07:08	1°♋46'59	
	11397 Aug 20 02:16	0°♒			11400 Feb 08 08:43	30°♒♊	
asc. node	11397 Sep 05 10:20	20°♒21'22		inferior conj	11400 Feb 11 04:38	28°♒15'10	-2°29'19
	11397 Sep 13 04:18	0°♓		minimum elong	11400 Feb 11 10:05	28°♒06'40	2°27'16
				min. Earth dist.	11400 Feb 11 18:26	27°♒53'39	0.28237 AU
superior conj	11397 Sep 22 09:00	11°♓25'53	0°39'40	morning rise	11400 Feb 17 12:24	24°♒27'46	
minimum elong	11397 Sep 22 00:44	11°♓00'14	0°39'22	asc. node	11400 Feb 21 07:51	22°♒34'04	
max. Earth dist.	11397 Sep 24 19:44	14°♓28'19	1.72444 AU	direct	11400 Mar 04 09:39	20°♒04'47	
	11397 Oct 07 07:58	0°♌		greatest brilliancy	11400 Mar 15 09:29	22°♒18'43	-4.8m
evening rise	11397 Oct 29 16:08	27°♌39'01			11400 Mar 29 02:47	0°♋	
	11397 Oct 31 13:48	0°♍		morning max el	11400 Apr 23 11:02	22°♋10'11	46°34'39
	11397 Nov 24 22:51	0°♎			11400 May 01 02:48	0°♍	
	11397 Dec 19 12:20	0°♏			11400 May 28 07:17	0°♎	
desc. node	11397 Dec 26 03:12	8°♏02'20		desc. node	11400 Jun 13 06:18	18°♎36'59	
	11398 Jan 13 07:02	0°♋			11400 Jun 22 20:05	0°♏	
	11398 Feb 07 07:31	0°♍			11400 Jul 17 15:23	0°♐	
	11398 Mar 04 16:08	0°♎			11400 Aug 11 02:49	0°♑	
	11398 Mar 30 17:16	0°♏			11400 Sep 04 11:16	0°♒	
asc. node	11398 Apr 18 01:44	20°♏08'30			11400 Sep 28 18:49	0°♓	
	11398 Apr 27 13:49	0°♐		asc. node	11400 Oct 04 00:02	6°♓26'32	
evening max el	11398 Apr 29 00:35	1°♐27'25	46°45'53		11400 Oct 23 01:54	0°♌	
	11398 Jun 03 10:52	0°♑		morning set	11400 Oct 25 17:25	3°♌16'11	
greatest brilliancy	11398 Jun 08 14:08	2°♑12'03	-4.9m		11400 Nov 16 08:41	0°♍	
retrograde	11398 Jun 18 06:55	3°♑58'40					
	11398 Jul 02 11:46	30°♒♊		superior conj	11400 Dec 01 16:23	18°♒55'22	1°25'49
evening set	11398 Jul 04 21:01	28°♒40'41		minimum elong	11400 Dec 01 17:56	19°♒00'07	1°26'30
inferior conj	11398 Jul 08 23:46	26°♒12'04	6°56'08	max. Earth dist.	11400 Dec 02 13:06	19°♒59'18	1.73171 AU

	11400 Dec 10 15:47	0° $\text{Z}$		desc. node	11403 Jul 11 17:45	10° $\text{II}$ 54'06	
	11401 Jan 03 24:00	0° $\approx$			11403 Jul 29 08:26	0° $\text{G}$	
evening rise	11401 Jan 07 17:42	4° $\approx$ 36'00			11403 Aug 24 11:31	0° $\text{O}$	
desc. node	11401 Jan 23 15:45	24° $\approx$ 10'18			11403 Sep 18 19:04	0° $\text{M}$	
	11401 Jan 28 09:35	0° $\text{H}$			11403 Oct 13 17:46	0° $\text{L}$	
	11401 Feb 21 20:05	0° $\text{Y}$		asc. node	11403 Nov 01 13:33	22° $\text{L}$ 49'19	
	11401 Mar 18 07:09	0° $\text{B}$			11403 Nov 07 11:07	0° $\text{M}$	
	11401 Apr 11 19:59	0° $\text{II}$			11403 Dec 02 00:20	0° $\text{X}$	
	11401 May 06 14:23	0° $\text{G}$			11403 Dec 26 10:27	0° $\text{Z}$	
asc. node	11401 May 16 12:15	11° $\text{G}$ 50'54		morning set	11404 Jan 03 13:03	9° $\text{Z}$ 59'15	
	11401 May 31 22:12	0° $\text{O}$			11404 Jan 19 18:35	0° $\approx$	
	11401 Jun 27 12:33	0° $\text{M}$		max. Earth dist.	11404 Feb 08 01:39	23° $\approx$ 49'50	1.72901 AU
evening max el	11401 Jul 11 14:17	14° $\text{M}$ 43'11	46°44'20				
	11401 Jul 27 22:50	0° $\text{L}$		superior conj	11404 Feb 09 17:44	25° $\approx$ 53'42	0°27'19
greatest brilliancy	11401 Aug 19 20:37	14° $\text{L}$ 57'39	-4.8m	minimum elong	11404 Feb 09 23:48	26° $\approx$ 12'25	0°27'28
retrograde	11401 Aug 30 21:56	17° $\text{L}$ 13'46			11404 Feb 13 01:26	0° $\text{H}$	
desc. node	11401 Sep 05 12:25	16° $\text{L}$ 35'12		desc. node	11404 Feb 21 04:54	10° $\text{H}$ 04'30	
evening set	11401 Sep 14 20:34	12° $\text{L}$ 49'50			11404 Mar 08 06:55	0° $\text{Y}$	
min. Earth dist.	11401 Sep 20 05:45	9° $\text{L}$ 39'15	0.27820 AU	evening rise	11404 Mar 19 05:48	13° $\text{Y}$ 35'21	
inferior conj	11401 Sep 21 00:47	9° $\text{L}$ 09'55	-3°47'42		11404 Apr 01 10:43	0° $\text{B}$	
minimum elong	11401 Sep 20 16:48	9° $\text{L}$ 22'14	3°45'23		11404 Apr 25 13:11	0° $\text{II}$	
morning rise	11401 Sep 26 13:44	5° $\text{L}$ 52'35			11404 May 19 15:58	0° $\text{G}$	
direct	11401 Oct 12 01:11	1° $\text{L}$ 15'54		asc. node	11404 Jun 12 23:35	0° $\text{O}$ 05'13	
greatest brilliancy	11401 Oct 21 14:45	2° $\text{L}$ 56'19	-4.8m		11404 Jun 12 21:53	0° $\text{O}$	
	11401 Nov 28 14:09	0° $\text{M}$			11404 Jul 07 10:50	0° $\text{M}$	
morning max el	11401 Nov 29 23:04	1° $\text{M}$ 18'30	45°46'37		11404 Aug 01 12:57	0° $\text{L}$	
asc. node	11401 Dec 27 12:35	29° $\text{M}$ 50'48			11404 Aug 27 17:08	0° $\text{M}$	
	11401 Dec 27 15:57	0° $\text{X}$		evening max el	11404 Sep 20 17:56	25° $\text{M}$ 18'20	46°09'13
	11402 Jan 23 04:53	0° $\text{Z}$			11404 Sep 25 14:43	0° $\text{X}$	
	11402 Feb 17 15:20	0° $\approx$		desc. node	11404 Oct 02 22:22	6° $\text{X}$ 39'36	
	11402 Mar 14 11:25	0° $\text{H}$		greatest brilliancy	11404 Oct 29 19:39	24° $\text{X}$ 22'47	-4.8m
	11402 Apr 07 22:32	0° $\text{Y}$		retrograde	11404 Nov 09 04:36	26° $\text{X}$ 20'15	
desc. node	11402 Apr 18 06:20	12° $\text{Y}$ 46'02		evening set	11404 Nov 27 14:06	20° $\text{X}$ 00'45	
	11402 May 02 03:20	0° $\text{B}$		inferior conj	11404 Nov 30 17:39	18° $\text{X}$ 02'56	-8°42'41
	11402 May 26 03:38	0° $\text{II}$		minimum elong	11404 Nov 30 19:06	18° $\text{X}$ 00'38	8°41'59
morning set	11402 May 30 16:39	5° $\text{II}$ 41'30		min. Earth dist.	11404 Nov 30 15:12	18° $\text{X}$ 06'48	0.29034 AU
	11402 Jun 19 01:27	0° $\text{G}$		morning rise	11404 Dec 04 00:08	16° $\text{X}$ 00'44	
				direct	11404 Dec 22 04:35	9° $\text{X}$ 49'03	
superior conj	11402 Jul 09 19:03	26° $\text{G}$ 02'04	-1°05'19	greatest brilliancy	11405 Jan 01 12:18	11° $\text{X}$ 44'55	-4.7m
minimum elong	11402 Jul 10 06:42	26° $\text{G}$ 38'39	1°05'35	asc. node	11405 Jan 23 23:25	25° $\text{X}$ 38'52	
max. Earth dist.	11402 Jul 11 08:14	27° $\text{G}$ 58'44	1.71432 AU		11405 Jan 29 02:56	0° $\text{Z}$	
	11402 Jul 12 22:53	0° $\text{O}$		morning max el	11405 Feb 09 06:25	10° $\text{Z}$ 21'00	45°50'41
	11402 Aug 05 21:41	0° $\text{M}$			11405 Feb 28 07:02	0° $\approx$	
asc. node	11402 Aug 08 22:44	3° $\text{M}$ 48'17			11405 Mar 26 23:15	0° $\text{H}$	
evening rise	11402 Aug 18 17:08	15° $\text{M}$ 59'50			11405 Apr 21 08:27	0° $\text{Y}$	
	11402 Aug 29 23:02	0° $\text{L}$		desc. node	11405 May 15 19:40	29° $\text{Y}$ 41'43	
	11402 Sep 23 04:02	0° $\text{M}$			11405 May 16 01:38	0° $\text{B}$	
	11402 Oct 17 14:26	0° $\text{X}$			11405 Jun 09 09:25	0° $\text{II}$	
	11402 Nov 11 09:00	0° $\text{Z}$			11405 Jul 03 11:56	0° $\text{G}$	
desc. node	11402 Nov 28 17:26	20° $\text{Z}$ 40'37			11405 Jul 27 12:24	0° $\text{O}$	
	11402 Dec 06 15:28	0° $\approx$		morning set	11405 Aug 13 04:46	20° $\text{O}$ 50'06	
	11403 Jan 01 15:27	0° $\text{H}$			11405 Aug 20 13:03	0° $\text{M}$	
	11403 Jan 28 22:33	0° $\text{Y}$		asc. node	11405 Sep 05 12:10	19° $\text{M}$ 53'42	
evening max el	11403 Feb 13 19:14	16° $\text{Y}$ 10'47	46°10'17		11405 Sep 13 14:59	0° $\text{L}$	
	11403 Feb 28 22:07	0° $\text{B}$					
asc. node	11403 Mar 21 17:53	14° $\text{B}$ 04'47		superior conj	11405 Sep 21 00:22	9° $\text{L}$ 11'28	0°36'32
greatest brilliancy	11403 Mar 25 11:10	15° $\text{B}$ 35'21	-4.8m	minimum elong	11405 Sep 20 16:36	8° $\text{L}$ 47'20	0°36'14
retrograde	11403 Apr 04 07:57	17° $\text{B}$ 23'37		max. Earth dist.	11405 Sep 23 10:02	12° $\text{L}$ 10'34	1.72407 AU
evening set	11403 Apr 20 10:30	12° $\text{B}$ 20'29			11405 Oct 07 18:37	0° $\text{M}$	
inferior conj	11403 Apr 25 01:51	9° $\text{B}$ 32'00	7°31'09	evening rise	11405 Oct 28 08:58	25° $\text{M}$ 29'50	
minimum elong	11403 Apr 24 15:23	9° $\text{B}$ 48'14	7°28'50		11405 Nov 01 00:29	0° $\text{X}$	
min. Earth dist.	11403 Apr 25 00:38	9° $\text{B}$ 33'53	0.27435 AU		11405 Nov 25 09:41	0° $\text{Z}$	
morning rise	11403 Apr 28 20:13	7° $\text{B}$ 14'04			11405 Dec 19 23:28	0° $\approx$	
direct	11403 May 15 22:59	1° $\text{B}$ 35'43		desc. node	11405 Dec 26 05:06	7° $\approx$ 34'01	
greatest brilliancy	11403 May 25 19:21	3° $\text{B}$ 25'51	-4.9m		11406 Jan 13 18:39	0° $\text{H}$	
	11403 Jun 30 23:03	0° $\text{II}$			11406 Feb 07 19:55	0° $\text{Y}$	
morning max el	11403 Jul 05 11:04	4° $\text{II}$ 27'33	46°58'33		11406 Mar 05 05:49	0° $\text{B}$	

	11406 Mar 31 09:24	0°♈			11408 Sep 03 22:22	0°♎		
asc. node	11406 Apr 18 03:49	19°♈22'27			11408 Sep 28 05:37	0°♊		
evening max el	11406 Apr 27 12:45	29°♈00'50	46°45'09	asc. node	11408 Oct 03 01:59	5°♊59'20		
	11406 Apr 28 12:29	0°♋			11408 Oct 22 12:28	0°♌		
greatest brilliancy	11406 Jun 07 04:01	29°♋47'47	-4.9m	morning set	11408 Oct 23 09:37	1°♌05'19		
	11406 Jun 07 18:18	0°♌			11408 Nov 15 19:08	0°♍		
retrograde	11406 Jun 16 19:52	1°♌33'55						
	11406 Jun 25 14:11	30°♌		superior conj	11408 Nov 29 09:41	16°♍48'23	1°26'01	
evening set	11406 Jul 03 13:29	26°♌10'22		minimum elong	11408 Nov 29 10:30	16°♍50'53	1°26'42	
inferior conj	11406 Jul 07 12:37	23°♌47'15	7°11'45	max. Earth dist.	11408 Nov 30 10:17	18°♍04'18	1.73158 AU	
minimum elong	11406 Jul 07 23:39	23°♌30'20	7°08'50		11408 Dec 10 02:12	0°♎		
min. Earth dist.	11406 Jul 07 21:14	23°♌34'02	0.27074 AU		11409 Jan 03 10:30	0°♏		
morning rise	11406 Jul 12 09:43	20°♌52'17		evening rise	11409 Jan 05 10:13	2°♏26'51		
direct	11406 Jul 28 04:39	15°♌59'40		desc. node	11409 Jan 22 17:33	23°♏43'13		
greatest brilliancy	11406 Aug 07 05:54	17°♌52'27	-4.9m		11409 Jan 27 20:16	0°♐		
desc. node	11406 Aug 08 04:14	18°♌13'14			11409 Feb 21 07:03	0°♑		
	11406 Aug 27 08:34	0°♑			11409 Mar 17 18:32	0°♒		
morning max el	11406 Sep 16 03:45	17°♑48'09	46°27'52		11409 Apr 11 07:57	0°♈		
	11406 Sep 28 03:09	0°♎			11409 May 06 03:17	0°♋		
	11406 Oct 25 13:10	0°♊		asc. node	11409 May 15 14:13	11°♋17'00		
	11406 Nov 20 14:14	0°♌			11409 May 31 12:45	0°♌		
asc. node	11406 Nov 29 02:31	10°♌00'31			11409 Jun 27 06:51	0°♎		
	11406 Dec 15 22:08	0°♍		evening max el	11409 Jul 09 05:53	12°♎26'43	46°45'13	
	11407 Jan 09 19:06	0°♎			11409 Jul 28 08:09	0°♊		
	11407 Feb 03 08:51	0°♏		greatest brilliancy	11409 Aug 17 11:50	12°♊40'09	-4.8m	
	11407 Feb 27 17:48	0°♐		retrograde	11409 Aug 28 13:06	14°♊55'39		
morning set	11407 Mar 14 12:08	18°♐15'53		desc. node	11409 Sep 04 14:27	13°♊54'38		
desc. node	11407 Mar 20 18:35	26°♐02'30		evening set	11409 Sep 12 09:43	10°♊34'20		
	11407 Mar 23 23:04	0°♑		min. Earth dist.	11409 Sep 17 20:20	7°♊21'30	0.27764 AU	
	11407 Apr 17 01:00	0°♒		inferior conj	11409 Sep 18 15:02	6°♊52'40	-3°27'26	
max. Earth dist.	11407 Apr 20 01:50	3°♒47'32	1.71785 AU	minimum elong	11409 Sep 18 07:38	7°♊04'06	3°25'16	
				morning rise	11409 Sep 24 06:20	3°♊32'14		
superior conj	11407 Apr 23 04:32	7°♒41'03	-1°10'11		11409 Oct 02 13:01	30°♒		
minimum elong	11407 Apr 22 17:22	7°♒06'10	1°10'14	direct	11409 Oct 09 15:35	28°♒59'37		
	11407 May 11 00:13	0°♈			11409 Oct 16 23:47	0°♊		
evening rise	11407 Jun 02 03:13	27°♈45'26		greatest brilliancy	11409 Oct 19 04:04	0°♊39'20	-4.8m	
	11407 Jun 03 22:08	0°♋		morning max el	11409 Nov 27 13:38	29°♊04'31	45°47'22	
	11407 Jun 27 20:46	0°♌			11409 Nov 28 12:41	0°♌		
asc. node	11407 Jul 11 11:39	17°♌00'13		asc. node	11409 Dec 26 14:24	29°♌13'15		
	11407 Jul 21 22:16	0°♎			11409 Dec 27 07:24	0°♍		
	11407 Aug 15 04:47	0°♊			11410 Jan 22 17:53	0°♎		
	11407 Sep 08 19:20	0°♌			11410 Feb 17 03:12	0°♏		
	11407 Oct 03 23:26	0°♍			11410 Mar 13 22:41	0°♐		
	11407 Oct 30 04:05	0°♎		desc. node	11410 Apr 07 09:30	0°♑		
desc. node	11407 Oct 31 08:35	1°♎19'03			11410 Apr 17 08:19	12°♑18'22		
	11407 Nov 27 12:55	0°♏			11410 May 01 14:09	0°♒		
evening max el	11407 Dec 01 18:31	4°♏07'11	45°49'34		11410 May 25 14:22	0°♈		
	11408 Jan 04 05:51	0°♐		morning set	11410 May 28 03:40	3°♈12'00		
greatest brilliancy	11408 Jan 09 21:05	2°♐21'40	-4.7m		11410 Jun 18 12:08	0°♋		
retrograde	11408 Jan 19 15:20	4°♐05'47						
	11408 Feb 03 02:43	30°♐		superior conj	11410 Jul 07 06:40	23°♋34'29	-1°07'50	
evening set	11408 Feb 04 00:15	29°♐30'41		minimum elong	11410 Jul 07 18:12	24°♋10'41	1°08'09	
inferior conj	11408 Feb 09 19:49	26°♐01'16	-2°49'45	max. Earth dist.	11410 Jul 08 17:38	25°♋24'14	1.71409 AU	
minimum elong	11408 Feb 10 01:56	25°♐51'44	2°47'29		11410 Jul 12 09:32	0°♌		
min. Earth dist.	11408 Feb 10 09:39	25°♐39'41	0.28283 AU		11410 Aug 05 08:18	0°♎		
morning rise	11408 Feb 16 03:05	22°♐14'44		asc. node	11410 Aug 08 00:34	3°♎20'48		
asc. node	11408 Feb 21 09:49	19°♐44'31		evening rise	11410 Aug 16 06:21	13°♎38'12		
direct	11408 Mar 02 01:43	17°♐50'25			11410 Aug 29 09:40	0°♊		
greatest brilliancy	11408 Mar 13 01:06	20°♐04'21	-4.8m		11410 Sep 22 14:48	0°♌		
	11408 Mar 29 19:50	0°♐			11410 Oct 17 01:29	0°♍		
morning max el	11408 Apr 21 03:11	19°♐56'28	46°33'06		11410 Nov 10 20:33	0°♎		
	11408 Apr 30 21:57	0°♑		desc. node	11410 Nov 27 19:20	20°♎10'36		
	11408 May 27 22:06	0°♒			11410 Dec 06 03:54	0°♏		
desc. node	11408 Jun 12 08:15	18°♒02'34			11411 Jan 01 05:35	0°♐		
	11408 Jun 22 09:06	0°♈			11411 Jan 28 16:35	0°♑		
	11408 Jul 17 03:28	0°♋		evening max el	11411 Feb 11 09:04	13°♑52'32	46°08'59	
	11408 Aug 10 14:18	0°♌			11411 Mar 01 07:33	0°♒		

asc. node	11411 Mar 20 19:55	12°♄24'14			11413 Sep 13 01:34	0°♎	
greatest brilliancy	11411 Mar 23 00:58	13°♄15'06	-4.8m				
retrograde	11411 Apr 01 20:45	15°♄02'37		superior conj	11413 Sep 18 15:16	6°♎55'46	0°33'18
evening set	11411 Apr 17 20:06	10°♄05'19		minimum elong	11413 Sep 18 08:02	6°♎33'18	0°32'58
inferior conj	11411 Apr 22 15:32	7°♄10'59	7°17'07	max. Earth dist.	11413 Sep 20 22:40	9°♎47'57	1.72370 AU
minimum elong	11411 Apr 22 04:49	7°♄27'37	7°14'39		11413 Oct 07 05:09	0°♎	
min. Earth dist.	11411 Apr 22 14:40	7°♄12'19	0.27451 AU	evening rise	11413 Oct 26 01:27	23°♎19'57	
morning rise	11411 Apr 26 13:23	4°♄47'35			11413 Oct 31 11:02	0°♏	
	11411 May 07 09:38	30°♏♑			11413 Nov 24 20:22	0°♏	
direct	11411 May 13 12:24	29°♑14'14			11413 Dec 19 10:28	0°♏	
	11411 May 19 19:09	0°♏		desc. node	11413 Dec 25 06:56	7°♏05'59	
greatest brilliancy	11411 May 23 10:21	1°♄05'12	-4.9m		11414 Jan 13 06:10	0°♏	
	11411 Jun 30 22:43	0°♐			11414 Feb 07 08:14	0°♑	
morning max el	11411 Jul 02 23:45	2°♐02'33	46°58'37		11414 Mar 04 19:27	0°♏	
desc. node	11411 Jul 10 19:38	10°♐06'42			11414 Mar 31 01:38	0°♐	
	11411 Jul 29 00:50	0°♑		asc. node	11414 Apr 17 05:51	18°♐36'15	
	11411 Aug 24 01:17	0°♑		evening max el	11414 Apr 25 02:04	26°♐38'01	46°44'27
	11411 Sep 18 07:27	0°♑			11414 Apr 28 11:51	0°♑	
	11411 Oct 13 05:19	0°♑		greatest brilliancy	11414 Jun 04 17:14	27°♑23'47	-4.9m
asc. node	11411 Oct 31 15:29	22°♑21'19		retrograde	11414 Jun 14 09:19	29°♑10'12	
	11411 Nov 06 22:08	0°♒		evening set	11414 Jul 01 06:03	23°♑40'58	
	11411 Dec 01 11:01	0°♏		inferior conj	11414 Jul 05 01:34	21°♑23'14	7°26'26
	11411 Dec 25 20:58	0°♏		minimum elong	11414 Jul 05 12:22	21°♑06'41	7°23'41
morning set	11412 Jan 01 06:12	7°♏51'56		min. Earth dist.	11414 Jul 05 10:15	21°♑09'55	0.27085 AU
	11412 Jan 19 05:01	0°♏		morning rise	11414 Jul 09 18:38	18°♑34'14	
max. Earth dist.	11412 Feb 05 18:21	21°♏40'57	1.72927 AU	direct	11414 Jul 25 17:47	13°♑35'12	
				greatest brilliancy	11414 Aug 04 18:38	15°♑28'12	-4.9m
superior conj	11412 Feb 07 09:34	23°♏42'05	0°30'33	desc. node	11414 Aug 07 06:18	16°♑27'13	
minimum elong	11412 Feb 07 16:13	24°♏02'39	0°30'43		11414 Aug 27 20:19	0°♑	
	11412 Feb 12 11:52	0°♏		morning max el	11414 Sep 13 18:47	15°♑30'45	46°29'25
desc. node	11412 Feb 20 06:50	9°♏38'09			11414 Sep 27 22:00	0°♑	
	11412 Mar 07 17:25	0°♑			11414 Oct 25 03:50	0°♑	
evening rise	11412 Mar 16 20:27	11°♑19'04			11414 Nov 20 03:01	0°♒	
	11412 Mar 31 21:23	0°♏		asc. node	11414 Nov 28 04:20	9°♒29'20	
	11412 Apr 25 00:05	0°♐			11414 Dec 15 09:54	0°♏	
	11412 May 19 03:09	0°♑			11415 Jan 09 06:16	0°♏	
asc. node	11412 Jun 12 01:24	29°♑35'06			11415 Feb 02 19:43	0°♏	
	11412 Jun 12 09:30	0°♑			11415 Feb 27 04:31	0°♏	
	11412 Jul 06 23:08	0°♑		morning set	11415 Mar 12 02:16	15°♏57'52	
	11412 Aug 01 02:28	0°♑		desc. node	11415 Mar 19 20:29	25°♏35'16	
	11412 Aug 27 09:15	0°♒			11415 Mar 23 09:45	0°♑	
evening max el	11412 Sep 18 08:00	23°♒01'41	46°10'32		11415 Apr 16 11:42	0°♏	
	11412 Sep 25 15:02	0°♏		max. Earth dist.	11415 Apr 17 14:45	1°♏24'29	1.71821 AU
desc. node	11412 Oct 02 00:28	5°♏42'11					
greatest brilliancy	11412 Oct 27 10:57	22°♏12'01	-4.8m	superior conj	11415 Apr 20 16:56	5°♏16'16	-1°07'50
retrograde	11412 Nov 06 20:23	24°♏10'29		minimum elong	11415 Apr 20 05:36	4°♏40'52	1°07'49
evening set	11412 Nov 25 05:52	17°♏51'13			11415 May 10 10:57	0°♐	
inferior conj	11412 Nov 28 09:44	15°♏53'05	-8°43'46	evening rise	11415 May 30 14:41	25°♐17'03	
minimum elong	11412 Nov 28 10:22	15°♏52'05	8°43'06		11415 Jun 03 08:55	0°♑	
min. Earth dist.	11412 Nov 28 06:23	15°♏58'22	0.29024 AU		11415 Jun 27 07:40	0°♑	
morning rise	11412 Dec 01 14:55	13°♏52'57		asc. node	11415 Jul 10 13:33	16°♑31'57	
direct	11412 Dec 19 19:51	7°♏39'23			11415 Jul 21 09:22	0°♑	
greatest brilliancy	11412 Dec 30 03:49	9°♏35'01	-4.7m		11415 Aug 14 16:11	0°♑	
asc. node	11413 Jan 23 01:27	24°♏38'51			11415 Sep 08 07:17	0°♒	
	11413 Jan 29 05:37	0°♏			11415 Oct 03 12:24	0°♏	
morning max el	11413 Feb 06 21:26	8°♏07'46	45°49'49		11415 Oct 29 19:14	0°♏	
	11413 Feb 27 23:29	0°♏		desc. node	11415 Oct 30 10:28	0°♏42'06	
	11413 Mar 26 12:47	0°♏			11415 Nov 27 10:03	0°♏	
	11413 Apr 20 20:42	0°♑		evening max el	11415 Nov 29 10:44	1°♏57'36	45°49'40
desc. node	11413 May 14 21:34	29°♑12'02			11416 Jan 07 01:46	0°♏	
	11413 May 15 13:13	0°♏		greatest brilliancy	11416 Jan 07 11:44	0°♏08'37	-4.7m
	11413 Jun 08 20:36	0°♐		retrograde	11416 Jan 17 06:35	1°♏52'46	
	11413 Jul 02 22:53	0°♑			11416 Jan 26 23:22	30°♏♑	
	11413 Jul 26 23:11	0°♑		evening set	11416 Feb 01 17:41	27°♏14'37	
morning set	11413 Aug 10 18:16	18°♑28'56		inferior conj	11416 Feb 07 11:09	23°♏47'39	-3°09'42
	11413 Aug 19 23:43	0°♑		minimum elong	11416 Feb 07 17:54	23°♏37'08	3°07'17
asc. node	11413 Sep 04 14:10	19°♑26'51		min. Earth dist.	11416 Feb 08 00:58	23°♏26'05	0.28324 AU

morning rise	11416 Feb 13 17:41	20°02'05		asc. node	11418 Aug 07 02:34	2°05'53	
asc. node	11416 Feb 20 11:53	16°59'46		evening rise	11418 Aug 13 19:32	11°15'24	
direct	11416 Feb 28 18:03	15°36'33			11418 Aug 28 20:39	0°00	
greatest brilliancy	11416 Mar 10 16:29	17°49'49	-4.8m		11418 Sep 22 01:54	0°00	
	11416 Mar 30 08:30	0°00			11418 Oct 16 12:51	0°00	
morning max el	11416 Apr 18 18:50	17°41'29	46°31'25		11418 Nov 10 08:26	0°00	
	11416 Apr 30 16:37	0°00		desc. node	11418 Nov 26 21:13	19°39'26	
	11416 May 27 12:48	0°00			11418 Dec 05 16:45	0°00	
desc. node	11416 Jun 11 10:03	17°27'41			11418 Dec 31 20:18	0°00	
	11416 Jun 21 22:07	0°00			11419 Jan 28 11:36	0°00	
	11416 Jul 16 15:34	0°00		evening max el	11419 Feb 08 22:20	11°31'44	46°07'43
	11416 Aug 10 01:52	0°00			11419 Mar 01 21:05	0°00	
	11416 Sep 03 09:32	0°00		asc. node	11419 Mar 19 21:55	10°38'19	
	11416 Sep 27 16:30	0°00		greatest brilliancy	11419 Mar 20 14:41	10°53'27	-4.8m
asc. node	11416 Oct 02 03:50	5°31'32		retrograde	11419 Mar 30 09:37	12°40'38	
morning set	11416 Oct 21 01:54	28°54'15		evening set	11419 Apr 15 05:49	7°48'33	
	11416 Oct 21 23:11	0°00		inferior conj	11419 Apr 20 05:13	4°48'51	7°02'20
	11416 Nov 15 05:45	0°00		minimum elong	11419 Apr 19 18:19	5°05'46	6°59'44
				min. Earth dist.	11419 Apr 20 04:48	4°49'31	0.27466 AU
superior conj	11416 Nov 27 02:56	14°40'39	1°26'06	morning rise	11419 Apr 24 06:37	2°00'09	
minimum elong	11416 Nov 27 03:01	14°40'53	1°26'47		11419 Apr 28 14:03	30°00	
max. Earth dist.	11416 Nov 28 06:19	16°05'11	1.73146 AU	direct	11419 May 11 01:40	26°51'30	
	11416 Dec 09 12:49	0°00		greatest brilliancy	11419 May 21 01:41	28°44'00	-4.9m
	11417 Jan 02 21:13	0°00			11419 May 24 04:25	0°00	
evening rise	11417 Jan 03 02:33	0°16'25		morning max el	11419 Jun 30 12:42	29°37'12	46°58'40
desc. node	11417 Jan 21 19:29	23°15'53			11419 Jun 30 21:45	0°00	
	11417 Jan 27 07:10	0°00		desc. node	11419 Jul 09 21:43	9°19'33	
	11417 Feb 20 18:14	0°00			11419 Jul 28 17:17	0°00	
	11417 Mar 17 06:08	0°00			11419 Aug 23 15:16	0°00	
	11417 Apr 10 20:11	0°00			11419 Sep 17 20:09	0°00	
	11417 May 05 16:31	0°00			11419 Oct 12 17:13	0°00	
asc. node	11417 May 14 16:05	10°41'51		asc. node	11419 Oct 30 17:19	21°51'52	
	11417 May 31 03:45	0°00			11419 Nov 06 09:30	0°00	
	11417 Jun 27 01:55	0°00			11419 Nov 30 22:04	0°00	
evening max el	11417 Jul 06 21:08	10°08'32	46°46'00		11419 Dec 25 07:48	0°00	
	11417 Jul 28 21:07	0°00		morning set	11419 Dec 29 23:24	5°43'41	
greatest brilliancy	11417 Aug 15 03:44	10°22'48	-4.8m		11420 Jan 18 15:48	0°00	
retrograde	11417 Aug 26 03:48	12°36'54		max. Earth dist.	11420 Feb 03 12:46	19°36'09	1.72959 AU
desc. node	11417 Sep 03 16:27	11°08'19					
evening set	11417 Sep 09 23:07	8°18'04		superior conj	11420 Feb 05 01:22	21°29'13	0°33'44
min. Earth dist.	11417 Sep 15 11:23	5°02'45	0.27707 AU	minimum elong	11420 Feb 05 08:35	21°51'30	0°33'54
inferior conj	11417 Sep 16 05:21	4°35'02	-3°06'51		11420 Feb 11 22:41	0°00	
minimum elong	11417 Sep 15 22:34	4°45'30	3°04'51	desc. node	11420 Feb 19 08:47	9°10'33	
morning rise	11417 Sep 21 22:49	1°11'29			11420 Mar 07 04:22	0°00	
	11417 Sep 24 06:05	30°00		evening rise	11420 Mar 14 10:59	9°01'12	
direct	11417 Oct 07 05:40	26°42'56			11420 Mar 31 08:30	0°00	
greatest brilliancy	11417 Oct 16 17:55	28°22'17	-4.8m		11420 Apr 24 11:24	0°00	
	11417 Oct 20 20:58	0°00			11420 May 18 14:46	0°00	
morning max el	11417 Nov 25 03:19	26°47'39	45°48'05	asc. node	11420 Jun 11 03:22	29°04'12	
	11417 Nov 28 10:34	0°00			11420 Jun 11 21:32	0°00	
asc. node	11417 Dec 25 16:24	28°35'46			11420 Jul 06 11:53	0°00	
	11417 Dec 26 22:54	0°00			11420 Jul 31 16:31	0°00	
	11418 Jan 22 07:06	0°00			11420 Aug 27 02:07	0°00	
	11418 Feb 16 15:20	0°00		evening max el	11420 Sep 15 22:33	20°44'59	46°11'52
	11418 Mar 13 10:16	0°00			11420 Sep 25 17:13	0°00	
	11418 Apr 06 20:45	0°00		desc. node	11420 Oct 01 02:24	4°41'47	
desc. node	11418 Apr 16 10:07	11°49'22		greatest brilliancy	11420 Oct 25 01:37	19°59'12	-4.8m
	11418 May 01 01:13	0°00		retrograde	11420 Nov 04 12:34	21°59'27	
	11418 May 25 01:22	0°00		evening set	11420 Nov 22 21:11	15°40'50	
morning set	11418 May 25 14:39	0°41'38		inferior conj	11420 Nov 26 01:44	13°41'54	-8°44'06
	11418 Jun 17 23:06	0°00		minimum elong	11420 Nov 26 01:34	13°42'11	8°43'26
				min. Earth dist.	11420 Nov 25 21:14	13°48'58	0.29012 AU
superior conj	11418 Jul 04 18:24	21°06'21	-1°10'15	morning rise	11420 Nov 29 06:00	11°43'24	
minimum elong	11418 Jul 05 05:43	21°41'52	1°10'35	direct	11420 Dec 17 11:18	5°28'24	
max. Earth dist.	11418 Jul 06 00:11	22°39'49	1.71390 AU	greatest brilliancy	11420 Dec 27 18:58	7°23'49	-4.7m
	11418 Jul 11 20:28	0°00		asc. node	11421 Jan 22 03:28	23°39'17	
	11418 Aug 04 19:14	0°00			11421 Jan 29 07:14	0°00	



morning max el	11421 Feb 04 13:06	5° $\text{Z}$ 55'19	45°48'58			11423 Oct 29 10:48	0° $\text{Z}$	
	11421 Feb 27 16:00	0° $\approx$		desc. node		11423 Oct 29 12:24	0° $\text{Z}$ 04'24	
	11421 Mar 26 02:35	0° $\text{X}$		evening max el		11423 Nov 27 02:32	29° $\text{Z}$ 46'27	45°49'43
	11421 Apr 20 09:18	0° $\text{Y}$				11423 Nov 27 08:12	0° $\approx$	
desc. node	11421 May 13 23:25	28° $\text{Y}$ 40'58		greatest brilliancy		11424 Jan 05 02:57	27° $\approx$ 55'54	-4.7m
	11421 May 15 01:11	0° $\text{B}$		retrograde		11424 Jan 14 21:25	29° $\approx$ 39'25	
	11421 Jun 08 08:11	0° $\text{II}$		evening set		11424 Jan 30 11:14	24° $\approx$ 58'16	
	11421 Jul 02 10:11	0° $\text{E}$		inferior conj		11424 Feb 05 02:30	21° $\approx$ 33'57	-3°29'24
	11421 Jul 26 10:18	0° $\Omega$		minimum elong		11424 Feb 05 09:49	21° $\approx$ 22'30	3°26'50
morning set	11421 Aug 08 07:33	16° $\Omega$ 06'04		min. Earth dist.		11424 Feb 05 16:30	21° $\approx$ 12'02	0.28361 AU
	11421 Aug 19 10:42	0° $\text{P}$		morning rise		11424 Feb 11 08:01	17° $\approx$ 49'25	
asc. node	11421 Sep 03 15:57	18° $\text{P}$ 58'25		asc. node		11424 Feb 19 13:48	14° $\approx$ 19'33	
	11421 Sep 12 12:28	0° $\text{L}$		direct		11424 Feb 26 10:00	13° $\approx$ 22'41	
				greatest brilliancy		11424 Mar 08 07:57	15° $\approx$ 35'15	-4.8m
superior conj	11421 Sep 16 05:57	4° $\text{L}$ 38'21	0°29'59			11424 Mar 30 17:52	0° $\text{X}$	
minimum elong	11421 Sep 15 23:19	4° $\text{L}$ 17'41	0°29'39	morning max el		11424 Apr 16 09:27	15° $\text{X}$ 23'54	46°29'48
max. Earth dist.	11421 Sep 18 13:13	7° $\text{L}$ 30'12	1.72336 AU			11424 Apr 30 10:46	0° $\text{Y}$	
	11421 Oct 06 16:01	0° $\text{M}$				11424 May 27 03:18	0° $\text{B}$	
evening rise	11421 Oct 23 17:57	21° $\text{M}$ 09'02		desc. node		11424 Jun 10 12:07	16° $\text{B}$ 53'44	
	11421 Oct 30 21:57	0° $\text{X}$				11424 Jun 21 11:04	0° $\text{II}$	
	11421 Nov 24 07:25	0° $\text{Z}$				11424 Jul 16 03:42	0° $\text{E}$	
	11421 Dec 18 21:48	0° $\approx$				11424 Aug 09 13:29	0° $\Omega$	
desc. node	11421 Dec 24 08:58	6° $\approx$ 37'30				11424 Sep 02 20:47	0° $\text{P}$	
	11422 Jan 12 18:00	0° $\text{X}$				11424 Sep 27 03:27	0° $\text{L}$	
	11422 Feb 06 20:54	0° $\text{Y}$		asc. node		11424 Oct 01 05:40	5° $\text{L}$ 03'32	
	11422 Mar 04 09:33	0° $\text{B}$		morning set		11424 Oct 18 17:46	26° $\text{L}$ 41'51	
	11422 Mar 30 18:33	0° $\text{II}$				11424 Oct 21 09:54	0° $\text{M}$	
asc. node	11422 Apr 16 07:42	17° $\text{II}$ 47'30				11424 Nov 14 16:21	0° $\text{X}$	
evening max el	11422 Apr 22 16:07	24° $\text{II}$ 15'48	46°43'31					
	11422 Apr 28 12:56	0° $\text{E}$		superior conj		11424 Nov 24 19:59	12° $\text{X}$ 32'24	1°26'04
greatest brilliancy	11422 Jun 02 05:54	24° $\text{E}$ 57'25	-4.9m	minimum elong		11424 Nov 24 19:18	12° $\text{X}$ 30'16	1°26'44
retrograde	11422 Jun 11 22:42	26° $\text{E}$ 44'11		max. Earth dist.		11424 Nov 26 01:12	14° $\text{X}$ 02'36	1.73132 AU
evening set	11422 Jun 28 22:25	21° $\text{E}$ 09'27				11424 Dec 08 23:26	0° $\text{Z}$	
inferior conj	11422 Jul 02 14:13	18° $\text{E}$ 57'03	7°40'30	evening rise		11424 Dec 31 18:49	28° $\text{Z}$ 05'52	
minimum elong	11422 Jul 03 00:44	18° $\text{E}$ 40'58	7°37'54			11425 Jan 02 07:56	0° $\approx$	
min. Earth dist.	11422 Jul 02 22:45	18° $\text{E}$ 44'01	0.27095 AU	desc. node		11425 Jan 20 21:25	22° $\approx$ 48'31	
morning rise	11422 Jul 07 03:03	16° $\text{E}$ 14'17				11425 Jan 26 18:04	0° $\text{X}$	
direct	11422 Jul 23 07:05	11° $\text{E}$ 08'53				11425 Feb 20 05:24	0° $\text{Y}$	
greatest brilliancy	11422 Aug 02 06:38	13° $\text{E}$ 01'22	-4.9m			11425 Mar 16 17:41	0° $\text{B}$	
desc. node	11422 Aug 06 08:17	14° $\text{E}$ 43'30				11425 Apr 10 08:21	0° $\text{II}$	
	11422 Aug 28 05:32	0° $\Omega$				11425 May 05 05:41	0° $\text{E}$	
morning max el	11422 Sep 11 09:32	13° $\Omega$ 11'33	46°30'59	asc. node		11425 May 13 18:08	10° $\text{E}$ 07'31	
	11422 Sep 27 16:40	0° $\text{P}$				11425 May 30 18:46	0° $\Omega$	
	11422 Oct 24 18:34	0° $\text{L}$				11425 Jun 26 21:22	0° $\text{P}$	
	11422 Nov 19 15:57	0° $\text{M}$		evening max el		11425 Jul 04 11:20	7° $\text{P}$ 47'53	46°46'33
asc. node	11422 Nov 27 06:16	8° $\text{M}$ 57'52				11425 Jul 29 14:29	0° $\text{L}$	
	11422 Dec 14 21:50	0° $\text{X}$		greatest brilliancy		11425 Aug 12 19:46	8° $\text{L}$ 05'14	-4.8m
	11423 Jan 08 17:38	0° $\text{Z}$		retrograde		11425 Aug 23 17:52	10° $\text{L}$ 17'41	
	11423 Feb 02 06:46	0° $\approx$		desc. node		11425 Sep 02 18:23	8° $\text{L}$ 16'20	
	11423 Feb 26 15:25	0° $\text{X}$		evening set		11425 Sep 07 12:31	6° $\text{L}$ 00'52	
morning set	11423 Mar 09 16:46	13° $\text{X}$ 40'34		min. Earth dist.		11425 Sep 13 02:39	2° $\text{L}$ 43'01	0.27655 AU
desc. node	11423 Mar 18 22:18	25° $\text{X}$ 07'14		inferior conj		11425 Sep 13 19:30	2° $\text{L}$ 17'00	-2°45'35
	11423 Mar 22 20:35	0° $\text{Y}$		minimum elong		11425 Sep 13 13:25	2° $\text{L}$ 26'24	2°43'48
max. Earth dist.	11423 Apr 15 02:26	28° $\text{Y}$ 57'11	1.71860 AU			11425 Sep 17 13:52	30° $\text{R}$ $\text{P}$	
	11423 Apr 15 22:33	0° $\text{B}$		morning rise		11425 Sep 19 15:02	28° $\text{P}$ 50'24	
				direct		11425 Oct 04 19:04	24° $\text{P}$ 25'38	
superior conj	11423 Apr 18 05:31	2° $\text{B}$ 51'38	-1°05'22	greatest brilliancy		11425 Oct 14 08:19	26° $\text{P}$ 05'25	-4.8m
minimum elong	11423 Apr 17 18:06	2° $\text{B}$ 15'59	1°05'18			11425 Oct 22 23:00	0° $\text{L}$	
	11423 May 09 21:52	0° $\text{II}$		morning max el		11425 Nov 22 16:24	24° $\text{L}$ 29'23	45°48'58
evening rise	11423 May 28 02:01	22° $\text{II}$ 47'30				11425 Nov 28 07:34	0° $\text{M}$	
	11423 Jun 02 19:56	0° $\text{E}$		asc. node		11425 Dec 24 18:27	27° $\text{M}$ 59'09	
	11423 Jun 26 18:50	0° $\Omega$				11425 Dec 26 14:01	0° $\text{X}$	
asc. node	11423 Jul 09 15:31	16° $\Omega$ 03'05				11426 Jan 21 20:02	0° $\text{Z}$	
	11423 Jul 20 20:42	0° $\text{P}$				11426 Feb 16 03:14	0° $\approx$	
	11423 Aug 14 03:50	0° $\text{L}$				11426 Mar 12 21:36	0° $\text{X}$	
	11423 Sep 07 19:28	0° $\text{M}$				11426 Apr 06 07:46	0° $\text{Y}$	
	11423 Oct 03 01:39	0° $\text{X}$		desc. node		11426 Apr 15 12:00	11° $\text{Y}$ 21'13	

	11426 Apr 30 12:03	0°♄	retrograde	11428 Nov 02 05:10	19°♄50'03	
morning set	11426 May 23 01:56	28°♄12'59	evening set	11428 Nov 20 12:13	13°♄32'35	
	11426 May 24 12:06	0°♄	inferior conj	11428 Nov 23 17:49	11°♄32'15	-8°43'35
	11426 Jun 17 09:46	0°♄	minimum elong	11428 Nov 23 16:52	11°♄33'45	8°42'55
			min. Earth dist.	11428 Nov 23 11:51	11°♄41'37	0.29000 AU
superior conj	11426 Jul 02 06:27	18°♄40'10 -1°12'29	morning rise	11428 Nov 26 21:34	9°♄34'48	
minimum elong	11426 Jul 02 17:27	19°♄14'42 1°12'52	direct	11428 Dec 15 03:29	3°♄19'06	
max. Earth dist.	11426 Jul 03 05:59	19°♄54'02 1.71375 AU	greatest brilliancy	11428 Dec 25 09:48	5°♄13'46	-4.7m
	11426 Jul 11 07:06	0°♄	asc. node	11429 Jan 21 05:21	22°♄42'01	
	11426 Aug 04 05:52	0°♄		11429 Jan 29 07:02	0°♄	
asc. node	11426 Aug 06 04:23	2°♄25'18	morning max el	11429 Feb 02 05:25	3°♄45'54	45°48'03
evening rise	11426 Aug 11 08:47	8°♄53'42		11429 Feb 27 07:46	0°♄	
	11426 Aug 28 07:21	0°♄		11429 Mar 25 15:49	0°♄	
	11426 Sep 21 12:46	0°♄		11429 Apr 19 21:24	0°♄	
	11426 Oct 16 00:00	0°♄		11429 May 13 01:24	28°♄11'43	
	11426 Nov 09 20:07	0°♄	desc. node	11429 May 14 12:41	0°♄	
desc. node	11426 Nov 25 23:16	19°♄09'22		11429 Jun 07 19:19	0°♄	
	11426 Dec 05 05:25	0°♄		11429 Jul 01 21:04	0°♄	
	11426 Dec 31 10:54	0°♄		11429 Jul 25 20:59	0°♄	
	11427 Jan 28 06:50	0°♄	morning set	11429 Aug 05 21:02	13°♄45'02	
evening max el	11427 Feb 06 11:36	9°♄12'02 46°06'33		11429 Aug 18 21:15	0°♄	
	11427 Mar 02 14:40	0°♄	asc. node	11429 Sep 02 17:48	18°♄31'35	
greatest brilliancy	11427 Mar 18 03:53	8°♄32'16 -4.8m		11429 Sep 11 22:55	0°♄	
asc. node	11427 Mar 18 23:52	8°♄49'10				
retrograde	11427 Mar 27 22:54	10°♄19'57	superior conj	11429 Sep 13 20:49	2°♄22'50	0°26'38
evening set	11427 Apr 12 15:42	5°♄32'28	minimum elong	11429 Sep 13 14:49	2°♄04'10	0°26'19
inferior conj	11427 Apr 17 18:54	2°♄27'43 6°46'45	max. Earth dist.	11429 Sep 16 06:15	5°♄21'30	1.72298 AU
minimum elong	11427 Apr 17 07:55	2°♄44'44 6°44'03		11429 Oct 06 02:24	0°♄	
min. Earth dist.	11427 Apr 17 18:43	2°♄28'00 0.27482 AU	evening rise	11429 Oct 21 10:45	19°♄00'29	
morning rise	11427 Apr 21 23:52	29°♄53'57		11429 Oct 30 08:22	0°♄	
	11427 Apr 21 19:46	30°♄♄		11429 Nov 23 18:01	0°♄	
direct	11427 May 08 15:14	24°♄29'42		11429 Dec 18 08:44	0°♄	
greatest brilliancy	11427 May 18 16:47	26°♄23'44 -4.9m	desc. node	11429 Dec 23 10:51	6°♄09'53	
	11427 May 26 08:40	0°♄		11430 Jan 12 05:29	0°♄	
morning max el	11427 Jun 28 02:38	27°♄15'38 46°58'52		11430 Feb 06 09:15	0°♄	
	11427 Jun 30 19:24	0°♄		11430 Mar 03 23:22	0°♄	
desc. node	11427 Jul 08 23:39	8°♄33'53		11430 Mar 30 11:23	0°♄	
	11427 Jul 28 08:58	0°♄	asc. node	11430 Apr 15 09:48	16°♄59'50	
	11427 Aug 23 04:38	0°♄	evening max el	11430 Apr 20 06:29	21°♄55'39	46°42'30
	11427 Sep 17 08:19	0°♄		11430 Apr 28 14:51	0°♄	
	11427 Oct 12 04:39	0°♄	greatest brilliancy	11430 May 30 18:46	22°♄32'44	-4.9m
asc. node	11427 Oct 29 19:15	21°♄24'01	retrograde	11430 Jun 09 11:55	24°♄19'20	
	11427 Nov 05 20:28	0°♄	evening set	11430 Jun 26 14:50	18°♄39'25	
	11427 Nov 30 08:44	0°♄	inferior conj	11430 Jun 30 02:57	16°♄32'10	7°53'39
	11427 Dec 24 18:17	0°♄	minimum elong	11430 Jun 30 13:05	16°♄16'38	7°51'13
morning set	11427 Dec 27 16:32	3°♄36'19	min. Earth dist.	11430 Jun 30 11:15	16°♄19'26	0.27104 AU
	11428 Jan 18 02:12	0°♄	morning rise	11430 Jul 04 11:21	13°♄55'38	
max. Earth dist.	11428 Feb 01 08:51	17°♄37'44 1.72986 AU	direct	11430 Jul 20 20:31	8°♄44'00	
			greatest brilliancy	11430 Jul 30 18:38	10°♄35'30	-4.9m
superior conj	11428 Feb 02 17:07	19°♄17'23 0°36'52	desc. node	11430 Aug 05 10:13	13°♄04'39	
minimum elong	11428 Feb 03 00:51	19°♄41'16 0°37'02		11430 Aug 28 11:45	0°♄	
	11428 Feb 11 09:07	0°♄	morning max el	11430 Sep 08 23:35	10°♄51'40	46°32'37
desc. node	11428 Feb 18 10:32	8°♄43'35		11430 Sep 27 10:26	0°♄	
	11428 Mar 06 14:56	0°♄		11430 Oct 24 08:40	0°♄	
evening rise	11428 Mar 12 01:38	6°♄44'59		11430 Nov 19 04:20	0°♄	
	11428 Mar 30 19:14	0°♄	asc. node	11430 Nov 26 08:16	8°♄28'04	
	11428 Apr 23 22:22	0°♄		11430 Dec 14 09:17	0°♄	
	11428 May 18 02:01	0°♄		11431 Jan 08 04:34	0°♄	
asc. node	11428 Jun 10 05:22	28°♄34'30		11431 Feb 01 17:27	0°♄	
	11428 Jun 11 09:12	0°♄		11431 Feb 26 02:00	0°♄	
	11428 Jul 06 00:15	0°♄	morning set	11431 Mar 07 07:21	11°♄24'29	
	11428 Jul 31 06:11	0°♄	desc. node	11431 Mar 18 00:14	24°♄40'29	
	11428 Aug 26 18:42	0°♄		11431 Mar 22 07:08	0°♄	
evening max el	11428 Sep 13 14:00	18°♄32'13 46°13'12	max. Earth dist.	11431 Apr 12 12:06	26°♄24'36	1.71899 AU
	11428 Sep 25 20:11	0°♄		11431 Apr 15 09:07	0°♄	
desc. node	11428 Sep 30 04:22	3°♄41'42				
greatest brilliancy	11428 Oct 22 15:50	17°♄47'35 -4.8m	superior conj	11431 Apr 15 18:08	0°♄28'11 -1°02'47	

minimum elong	11431 Apr 15 06:43	29° $\Upsilon$ 52'33	1°02'41			11433 Oct 24 08:25	0° $\Omega$	
	11431 May 09 08:29	0° $\Pi$		morning max el		11433 Nov 20 05:53	22° $\Omega$ 11'41	45°50'03
evening rise	11431 May 25 13:18	20° $\Pi$ 18'50				11433 Nov 28 03:56	0° $\mathbb{M}$	
	11431 Jun 02 06:39	0° $\mathfrak{C}$		asc. node		11433 Dec 23 20:15	27° $\mathbb{M}$ 21'57	
	11431 Jun 26 05:42	0° $\Omega$				11433 Dec 26 04:58	0° $\mathfrak{X}$	
asc. node	11431 Jul 08 17:21	15° $\Omega$ 34'38				11434 Jan 21 08:54	0° $\mathfrak{Z}$	
	11431 Jul 20 07:48	0° $\mathbb{M}$				11434 Feb 15 15:05	0° $\approx$	
	11431 Aug 13 15:15	0° $\Omega$				11434 Mar 12 08:55	0° $\mathfrak{H}$	
	11431 Sep 07 07:26	0° $\mathbb{M}$				11434 Apr 05 18:49	0° $\Upsilon$	
	11431 Oct 02 14:43	0° $\mathfrak{X}$		desc. node		11434 Apr 14 13:59	10° $\Upsilon$ 53'16	
desc. node	11431 Oct 28 14:31	29° $\mathfrak{X}$ 27'54				11434 Apr 29 22:59	0° $\mathfrak{B}$	
	11431 Oct 29 02:15	0° $\mathfrak{Z}$		morning set		11434 May 20 12:59	25° $\mathfrak{B}$ 43'07	
evening max el	11431 Nov 24 17:28	27° $\mathfrak{Z}$ 34'20	45°49'50			11434 May 23 22:59	0° $\Pi$	
	11431 Nov 27 06:47	0° $\approx$				11434 Jun 16 20:38	0° $\mathfrak{C}$	
greatest brilliancy	11432 Jan 02 18:40	25° $\approx$ 45'11	-4.7m					
retrograde	11432 Jan 12 11:59	27° $\approx$ 27'49		superior conj		11434 Jun 29 18:03	16° $\mathfrak{C}$ 11'52	-1°14'36
evening set	11432 Jan 28 05:04	22° $\approx$ 43'18		minimum elong		11434 Jun 30 04:39	16° $\mathfrak{C}$ 45'09	1°15'02
inferior conj	11432 Feb 02 18:06	19° $\approx$ 21'57	-3°48'33	max. Earth dist.		11434 Jun 30 10:49	17° $\mathfrak{C}$ 04'31	1.71364 AU
minimum elong	11432 Feb 03 01:57	19° $\approx$ 09'39	3°45'51			11434 Jul 10 17:56	0° $\Omega$	
min. Earth dist.	11432 Feb 03 08:30	18° $\approx$ 59'22	0.28403 AU			11434 Aug 03 16:42	0° $\mathbb{M}$	
morning rise	11432 Feb 08 22:24	15° $\approx$ 38'36		asc. node		11434 Aug 05 06:14	1° $\mathbb{M}$ 57'13	
asc. node	11432 Feb 18 15:48	11° $\approx$ 45'42		evening rise		11434 Aug 08 21:32	6° $\mathbb{M}$ 29'49	
direct	11432 Feb 24 01:45	11° $\approx$ 10'15				11434 Aug 27 18:16	0° $\Omega$	
greatest brilliancy	11432 Mar 06 00:14	13° $\approx$ 22'44	-4.8m			11434 Sep 20 23:51	0° $\mathbb{M}$	
	11432 Mar 31 00:18	0° $\mathfrak{H}$				11434 Oct 15 11:25	0° $\mathfrak{X}$	
morning max el	11432 Apr 13 23:27	13° $\mathfrak{H}$ 05'20	46°28'08			11434 Nov 09 08:05	0° $\mathfrak{Z}$	
	11432 Apr 30 04:20	0° $\Upsilon$		desc. node		11434 Nov 25 01:11	18° $\mathfrak{Z}$ 38'07	
	11432 May 26 17:31	0° $\mathfrak{B}$				11434 Dec 04 18:23	0° $\approx$	
desc. node	11432 Jun 09 14:03	16° $\mathfrak{B}$ 19'56				11434 Dec 31 01:54	0° $\mathfrak{H}$	
	11432 Jun 20 23:47	0° $\Pi$				11435 Jan 28 02:48	0° $\Upsilon$	
	11432 Jul 15 15:37	0° $\mathfrak{C}$		evening max el		11435 Feb 04 01:36	6° $\Upsilon$ 54'08	46°05'35
	11432 Aug 09 00:54	0° $\Omega$				11435 Mar 03 14:34	0° $\mathfrak{B}$	
	11432 Sep 02 07:51	0° $\mathbb{M}$		greatest brilliancy		11435 Mar 15 16:38	6° $\mathfrak{B}$ 10'50	-4.8m
	11432 Sep 26 14:14	0° $\Omega$		asc. node		11435 Mar 18 01:54	6° $\mathfrak{B}$ 55'51	
asc. node	11432 Sep 30 07:37	4° $\Omega$ 36'16		retrograde		11435 Mar 25 12:55	7° $\mathfrak{B}$ 59'34	
morning set	11432 Oct 16 09:39	24° $\Omega$ 29'42		evening set		11435 Apr 10 01:58	3° $\mathfrak{B}$ 16'18	
	11432 Oct 20 20:30	0° $\mathbb{M}$		inferior conj		11435 Apr 15 08:43	0° $\mathfrak{B}$ 06'40	6°30'29
	11432 Nov 14 02:51	0° $\mathfrak{X}$		minimum elong		11435 Apr 14 21:44	0° $\mathfrak{B}$ 23'40	6°27'42
				min. Earth dist.		11435 Apr 15 08:25	0° $\mathfrak{B}$ 07'08	0.27501 AU
superior conj	11432 Nov 22 13:18	10° $\mathfrak{X}$ 25'20	1°25'54			11435 Apr 15 13:02	30° $\mathfrak{R}$ $\Upsilon$	
minimum elong	11432 Nov 22 11:52	10° $\mathfrak{X}$ 20'54	1°26'33	morning rise		11435 Apr 19 17:16	27° $\Upsilon$ 27'58	
max. Earth dist.	11432 Nov 23 18:18	11° $\mathfrak{X}$ 54'51	1.73112 AU	direct		11435 May 06 05:29	22° $\Upsilon$ 08'06	
	11432 Dec 08 09:55	0° $\mathfrak{Z}$		greatest brilliancy		11435 May 16 07:30	24° $\Upsilon$ 02'59	-4.9m
evening rise	11432 Dec 29 11:29	25° $\mathfrak{Z}$ 57'01				11435 May 27 19:04	0° $\mathfrak{B}$	
	11433 Jan 01 18:29	0° $\approx$		morning max el		11435 Jun 25 17:32	24° $\mathfrak{B}$ 55'50	46°58'42
desc. node	11433 Jan 19 23:15	22° $\approx$ 21'25				11435 Jun 30 16:33	0° $\Pi$	
	11433 Jan 26 04:48	0° $\mathfrak{H}$		desc. node		11435 Jul 08 01:34	7° $\Pi$ 47'57	
	11433 Feb 19 16:27	0° $\Upsilon$				11435 Jul 28 00:46	0° $\mathfrak{C}$	
	11433 Mar 16 05:13	0° $\mathfrak{B}$				11435 Aug 22 18:16	0° $\Omega$	
	11433 Apr 09 20:33	0° $\Pi$				11435 Sep 16 20:47	0° $\mathbb{M}$	
	11433 May 04 18:58	0° $\mathfrak{C}$				11435 Oct 11 16:23	0° $\Omega$	
asc. node	11433 May 12 20:05	9° $\mathfrak{C}$ 32'39		asc. node		11435 Oct 28 21:10	20° $\Omega$ 55'10	
	11433 May 30 10:02	0° $\Omega$				11435 Nov 05 07:45	0° $\mathbb{M}$	
	11433 Jun 26 17:29	0° $\mathbb{M}$				11435 Nov 29 19:42	0° $\mathfrak{X}$	
evening max el	11433 Jul 02 00:30	5° $\mathbb{M}$ 24'28	46°47'12			11435 Dec 24 05:05	0° $\mathfrak{Z}$	
	11433 Jul 30 14:08	0° $\Omega$		morning set		11435 Dec 25 09:35	1° $\mathfrak{Z}$ 27'46	
greatest brilliancy	11433 Aug 10 11:37	5° $\Omega$ 47'03	-4.8m			11436 Jan 17 12:57	0° $\approx$	
retrograde	11433 Aug 21 07:48	7° $\Omega$ 58'17		max. Earth dist.		11436 Jan 30 05:05	15° $\approx$ 38'44	1.73007 AU
desc. node	11433 Sep 01 20:26	5° $\Omega$ 19'00						
evening set	11433 Sep 05 02:00	3° $\Omega$ 42'47		superior conj		11436 Jan 31 09:01	17° $\approx$ 05'01	0°39'56
min. Earth dist.	11433 Sep 10 17:57	0° $\Omega$ 22'42	0.27606 AU	minimum elong		11436 Jan 31 17:12	17° $\approx$ 30'17	0°40'06
inferior conj	11433 Sep 11 09:35	29° $\mathbb{M}$ 58'35	-2°23'57			11436 Feb 10 19:53	0° $\mathfrak{H}$	
minimum elong	11433 Sep 11 04:13	0° $\Omega$ 06'52	2°22'23	desc. node		11436 Feb 17 12:31	8° $\mathfrak{H}$ 16'25	
	11433 Sep 11 08:39	30° $\mathfrak{R}$ $\mathbb{M}$				11436 Mar 06 01:47	0° $\Upsilon$	
morning rise	11433 Sep 17 07:02	26° $\mathbb{M}$ 29'13		evening rise		11436 Mar 09 16:32	4° $\Upsilon$ 28'45	
direct	11433 Oct 02 08:07	22° $\mathbb{M}$ 07'36				11436 Mar 30 06:15	0° $\mathfrak{B}$	
greatest brilliancy	11433 Oct 11 23:06	23° $\mathbb{M}$ 48'34	-4.8m			11436 Apr 23 09:35	0° $\Pi$	

	11436 May 17 13:33	0°☿			11439 Jan 07 15:57	0°♄		
asc. node	11436 Jun 09 07:12	28°☿03'16			11439 Feb 01 04:34	0°♁		
	11436 Jun 10 21:14	0°♂			11439 Feb 25 12:59	0°♂		
	11436 Jul 05 13:06	0°♎		morning set	11439 Mar 04 21:47	9°♂06'42		
	11436 Jul 30 20:29	0°♊		desc. node	11439 Mar 17 02:08	24°♂12'29		
	11436 Aug 26 12:15	0°♋			11439 Mar 21 18:05	0°♎		
evening max el	11436 Sep 11 05:59	16°♋18'56 46°14'31		max. Earth dist.	11439 Apr 09 21:11	23°♎49'06	1.71939 AU	
	11436 Sep 26 01:50	0°♌						
desc. node	11436 Sep 29 06:27	2°♌38'30		superior conj	11439 Apr 13 06:48	28°♎03'42 -1°00'05		
greatest brilliancy	11436 Oct 20 06:00	15°♌33'54 -4.8m		minimum elong	11439 Apr 12 19:29	27°♎28'21 0°59'57		
retrograde	11436 Oct 30 21:39	17°♌38'09			11439 Apr 14 20:04	0°♏		
evening set	11436 Nov 18 02:40	11°♌22'38			11439 May 08 19:29	0°♐		
inferior conj	11436 Nov 21 09:36	9°♌20'13 -8°42'20		evening rise	11439 May 23 00:47	17°♐49'40		
minimum elong	11436 Nov 21 07:51	9°♌22'58 8°41'39			11439 Jun 01 17:44	0°☿		
min. Earth dist.	11436 Nov 21 01:56	9°♌32'13 0.28981 AU			11439 Jun 25 16:54	0°♂		
morning rise	11436 Nov 24 13:08	7°♌23'16		asc. node	11439 Jul 07 19:16	15°♂05'35		
direct	11436 Dec 12 19:39	1°♌07'41			11439 Jul 19 19:11	0°♎		
greatest brilliancy	11436 Dec 22 23:40	3°♌00'45 -4.7m			11439 Aug 13 02:57	0°♊		
asc. node	11437 Jan 20 07:24	21°♌44'45			11439 Sep 06 19:46	0°♋		
	11437 Jan 29 06:22	0°♄			11439 Oct 02 04:15	0°♌		
morning max el	11437 Jan 30 21:26	1°♄34'20 45°47'14		desc. node	11439 Oct 27 16:23	28°♌49'02		
	11437 Feb 26 23:45	0°♁			11439 Oct 28 18:25	0°♄		
	11437 Mar 25 05:22	0°♂		evening max el	11439 Nov 22 07:33	25°♄18'41 45°49'55		
	11437 Apr 19 09:48	0°♎			11439 Nov 27 07:05	0°♁		
desc. node	11437 May 12 03:17	27°♎41'14		greatest brilliancy	11439 Dec 31 10:21	23°♁32'44 -4.7m		
	11437 May 14 00:28	0°♏		retrograde	11440 Jan 10 02:27	25°♁14'43		
	11437 Jun 07 06:44	0°♐		evening set	11440 Jan 25 22:49	20°♁26'24		
	11437 Jul 01 08:15	0°☿		inferior conj	11440 Jan 31 09:34	17°♁08'23 -4°07'16		
	11437 Jul 25 08:02	0°♂		minimum elong	11440 Jan 31 17:54	16°♁55'19 4°04'28		
morning set	11437 Aug 03 10:24	11°♂22'30		min. Earth dist.	11440 Feb 01 00:30	16°♁44'57 0.28446 AU		
	11437 Aug 18 08:12	0°♎		morning rise	11440 Feb 06 12:28	13°♁26'37		
asc. node	11437 Sep 01 19:48	18°♎03'51		asc. node	11440 Feb 17 17:51	9°♁15'02		
				direct	11440 Feb 21 17:00	8°♁56'07		
superior conj	11437 Sep 11 11:15	0°♊04'31 0°23'12		greatest brilliancy	11440 Mar 03 16:45	11°♁09'14 -4.8m		
minimum elong	11437 Sep 11 05:58	29°♎48'02 0°22'52			11440 Mar 31 05:11	0°♂		
	11437 Sep 11 09:48	0°♊		morning max el	11440 Apr 11 13:22	10°♂45'25 46°26'33		
max. Earth dist.	11437 Sep 13 23:29	3°♊11'55 1.72263 AU			11440 Apr 29 21:53	0°♎		
	11437 Oct 05 13:16	0°♋			11440 May 26 07:52	0°♏		
evening rise	11437 Oct 19 03:02	16°♋48'46		desc. node	11440 Jun 08 15:53	15°♏45'10		
	11437 Oct 29 19:17	0°♌			11440 Jun 20 12:43	0°♐		
	11437 Nov 23 05:07	0°♄			11440 Jul 15 03:45	0°☿		
	11437 Dec 17 20:11	0°♁			11440 Aug 08 12:30	0°♂		
desc. node	11437 Dec 22 12:43	5°♁40'40			11440 Sep 01 19:04	0°♎		
	11438 Jan 11 17:30	0°♂			11440 Sep 26 01:11	0°♊		
	11438 Feb 05 22:10	0°♎		asc. node	11440 Sep 29 09:28	4°♊08'12		
	11438 Mar 03 13:49	0°♏		morning set	11440 Oct 14 01:41	22°♊17'26		
	11438 Mar 30 05:00	0°♐			11440 Oct 20 07:17	0°♋		
asc. node	11438 Apr 14 11:48	16°♐10'03			11440 Nov 13 13:34	0°♌		
evening max el	11438 Apr 17 20:37	19°♐33'55 46°41'36						
	11438 Apr 28 18:43	0°☿		superior conj	11440 Nov 20 06:38	8°♌17'33 1°25'36		
greatest brilliancy	11438 May 28 08:19	20°☿08'32 -4.9m		minimum elong	11440 Nov 20 04:28	8°♌10'52 1°26'14		
retrograde	11438 Jun 07 00:57	21°☿54'19		max. Earth dist.	11440 Nov 21 10:20	9°♌43'08 1.73100 AU		
evening set	11438 Jun 24 07:26	16°☿09'37			11440 Dec 07 20:40	0°♄		
inferior conj	11438 Jun 27 15:58	14°☿07'22 8°05'43		evening rise	11440 Dec 27 03:58	23°♄46'52		
minimum elong	11438 Jun 28 01:38	13°☿52'31 8°03'30			11441 Jan 01 05:20	0°♁		
min. Earth dist.	11438 Jun 28 00:07	13°☿54'50 0.27112 AU		desc. node	11441 Jan 19 01:12	21°♁53'45		
morning rise	11438 Jul 01 19:51	11°☿37'01			11441 Jan 25 15:50	0°♂		
direct	11438 Jul 18 09:47	6°☿19'13			11441 Feb 19 03:48	0°♎		
greatest brilliancy	11438 Jul 28 07:05	8°☿09'49 -4.9m			11441 Mar 15 17:02	0°♏		
desc. node	11438 Aug 04 12:17	11°☿29'14			11441 Apr 09 09:04	0°♐		
	11438 Aug 28 16:15	0°♂			11441 May 04 08:35	0°☿		
morning max el	11438 Sep 06 12:48	8°♂28'39 46°33'58		asc. node	11441 May 11 21:57	8°☿56'32		
	11438 Sep 27 04:11	0°♎			11441 May 30 01:45	0°♂		
	11438 Oct 23 23:05	0°♊			11441 Jun 26 14:28	0°♎		
	11438 Nov 18 17:08	0°♋		evening max el	11441 Jun 29 13:43	3°♎00'45 46°47'58		
asc. node	11438 Nov 25 10:06	7°♋56'20			11441 Jul 31 23:23	0°♊		
	11438 Dec 13 21:11	0°♌		greatest brilliancy	11441 Aug 08 03:09	3°♊28'17 -4.9m		

retrograde	11441 Aug 18 22:13	5°♌39'05		max. Earth dist.	11444 Jan 28 01:30	13°♍40'58	1.73031 AU
desc. node	11441 Aug 31 22:27	2°♌17'39					
evening set	11441 Sep 02 15:46	1°♌24'18		superior conj	11444 Jan 29 01:14	14°♍54'14	0°42'54
	11441 Sep 05 03:30	30°♌		minimum elong	11444 Jan 29 09:49	15°♍20'44	0°43'06
inferior conj	11441 Sep 08 23:44	27°♌40'11	-2°02'08		11444 Feb 10 06:29	0°♌	
minimum elong	11441 Sep 08 19:08	27°♌47'17	2°00'48	desc. node	11444 Feb 16 14:26	7°♌49'33	
min. Earth dist.	11441 Sep 08 09:07	28°♌02'42	0.27557 AU		11444 Mar 05 12:31	0°♌	
morning rise	11441 Sep 14 23:02	24°♌08'34		evening rise	11444 Mar 07 07:27	2°♌12'56	
direct	11441 Sep 29 21:20	19°♌49'34			11444 Mar 29 17:09	0°♌	
greatest brilliancy	11441 Oct 09 13:44	21°♌31'48	-4.8m		11444 Apr 22 20:44	0°♌	
	11441 Oct 25 08:10	0°♌			11444 May 17 01:01	0°♌	
morning max el	11441 Nov 17 20:09	19°♌55'59	45°51'05	asc. node	11444 Jun 08 09:12	27°♌32'52	
	11441 Nov 27 23:37	0°♌			11444 Jun 10 09:11	0°♌	
asc. node	11441 Dec 22 22:17	26°♌45'36			11444 Jul 05 01:52	0°♌	
	11441 Dec 25 19:46	0°♌			11444 Jul 30 10:44	0°♌	
	11442 Jan 20 21:48	0°♌			11444 Aug 26 05:56	0°♌	
	11442 Feb 15 03:03	0°♌		evening max el	11444 Sep 08 22:16	14°♌07'00	46°15'50
	11442 Mar 11 20:22	0°♌			11444 Sep 26 09:22	0°♌	
	11442 Apr 05 05:58	0°♌		desc. node	11444 Sep 28 08:23	1°♌34'11	
desc. node	11442 Apr 13 15:48	10°♌24'29		greatest brilliancy	11444 Oct 17 21:05	13°♌22'16	-4.8m
	11442 Apr 29 09:59	0°♌		retrograde	11444 Oct 28 14:06	15°♌27'18	
morning set	11442 May 17 23:52	23°♌12'35		evening set	11444 Nov 15 17:01	9°♌14'38	
	11442 May 23 09:55	0°♌		min. Earth dist.	11444 Nov 18 16:23	7°♌24'00	0.28954 AU
	11442 Jun 16 07:32	0°♌		inferior conj	11444 Nov 19 01:33	7°♌09'37	-8°40'26
				minimum elong	11444 Nov 18 23:00	7°♌13'37	8°39'43
superior conj	11442 Jun 27 05:30	13°♌42'54	-1°16'35	morning rise	11444 Nov 22 05:09	5°♌12'32	
minimum elong	11442 Jun 27 15:38	14°♌14'43	1°17'03		11444 Dec 03 07:04	30°♌	
max. Earth dist.	11442 Jun 27 17:38	14°♌21'00	1.71356 AU	direct	11444 Dec 10 11:54	28°♌57'58	
	11442 Jul 10 04:49	0°♌			11444 Dec 17 22:32	0°♌	
	11442 Aug 03 03:36	0°♌		greatest brilliancy	11444 Dec 20 13:24	0°♌48'54	-4.7m
asc. node	11442 Aug 04 08:13	1°♌29'26		asc. node	11445 Jan 19 09:25	20°♌49'59	
evening rise	11442 Aug 06 10:18	4°♌05'49		morning max el	11445 Jan 28 12:44	29°♌22'21	45°46'24
	11442 Aug 27 05:12	0°♌			11445 Jan 29 04:13	0°♌	
	11442 Sep 20 10:55	0°♌			11445 Feb 26 15:03	0°♌	
	11442 Oct 14 22:45	0°♌			11445 Mar 24 18:28	0°♌	
	11442 Nov 08 19:59	0°♌			11445 Apr 18 21:54	0°♌	
desc. node	11442 Nov 24 03:05	18°♌07'02		desc. node	11445 May 11 05:10	27°♌11'26	
	11442 Dec 04 07:22	0°♌			11445 May 13 12:01	0°♌	
	11442 Dec 30 17:04	0°♌			11445 Jun 06 17:56	0°♌	
	11443 Jan 27 23:29	0°♌			11445 Jun 30 19:13	0°♌	
evening max el	11443 Feb 01 16:34	4°♌38'35	46°04'26		11445 Jul 24 18:50	0°♌	
	11443 Mar 05 00:22	0°♌		morning set	11445 Jul 31 23:30	8°♌59'51	
greatest brilliancy	11443 Mar 13 05:15	3°♌48'59	-4.8m		11445 Aug 17 18:53	0°♌	
asc. node	11443 Mar 17 03:54	4°♌57'28		asc. node	11445 Aug 31 21:35	17°♌36'20	
retrograde	11443 Mar 23 03:05	5°♌38'34					
evening set	11443 Apr 07 12:22	0°♌59'36		superior conj	11445 Sep 09 01:34	27°♌46'41	0°19'43
	11443 Apr 09 05:51	30°♌		minimum elong	11445 Sep 08 21:01	27°♌32'31	0°19'23
inferior conj	11443 Apr 12 22:25	27°♌45'10	6°13'31		11445 Sep 10 20:24	0°♌	
minimum elong	11443 Apr 12 11:30	28°♌02'03	6°10'41	max. Earth dist.	11445 Sep 11 16:38	1°♌02'58	1.72224 AU
min. Earth dist.	11443 Apr 12 21:54	27°♌45'58	0.27519 AU		11445 Oct 04 23:50	0°♌	
morning rise	11443 Apr 17 10:28	25°♌01'34		evening rise	11445 Oct 16 19:21	14°♌38'01	
direct	11443 May 03 19:58	19°♌46'21			11445 Oct 29 05:54	0°♌	
greatest brilliancy	11443 May 13 21:35	21°♌41'18	-4.9m		11445 Nov 22 15:53	0°♌	
	11443 May 28 19:36	0°♌			11445 Dec 17 07:16	0°♌	
morning max el	11443 Jun 23 08:28	22°♌36'18	46°58'28	desc. node	11445 Dec 21 14:45	5°♌13'06	
	11443 Jun 30 12:57	0°♌			11446 Jan 11 05:08	0°♌	
desc. node	11443 Jul 07 03:40	7°♌03'20			11446 Feb 05 10:42	0°♌	
	11443 Jul 27 16:13	0°♌			11446 Mar 03 03:58	0°♌	
	11443 Aug 22 07:41	0°♌			11446 Mar 29 22:39	0°♌	
	11443 Sep 16 09:04	0°♌		asc. node	11446 Apr 13 13:41	15°♌19'52	
	11443 Oct 11 03:58	0°♌		evening max el	11446 Apr 15 09:38	17°♌10'11	46°40'19
asc. node	11443 Oct 27 23:00	20°♌26'33			11446 Apr 29 00:13	0°♌	
	11443 Nov 04 18:50	0°♌		greatest brilliancy	11446 May 25 22:12	17°♌44'45	-4.9m
	11443 Nov 29 06:27	0°♌		retrograde	11446 Jun 04 13:15	19°♌29'09	
morning set	11443 Dec 23 03:06	29°♌21'19		evening set	11446 Jun 21 23:40	13°♌39'46	
	11443 Dec 23 15:40	0°♌		inferior conj	11446 Jun 25 04:45	11°♌42'29	8°16'58
	11444 Jan 16 23:28	0°♌		minimum elong	11446 Jun 25 13:50	11°♌28'29	8°14'58

min. Earth dist.	11446 Jun 25 13:08	11°☾29'33	0.27123 AU	desc. node	11449 Jan 18 03:06	21°♊26'56	
morning rise	11446 Jun 29 04:00	9°☾18'28			11449 Jan 25 02:33	0°♋	
direct	11446 Jul 15 22:17	3°☾54'05			11449 Feb 18 14:49	0°♌	
greatest brilliancy	11446 Jul 25 19:58	5°☾44'33	-4.9m		11449 Mar 15 04:30	0°♍	
desc. node	11446 Aug 03 14:15	9°☾57'08			11449 Apr 08 21:14	0°♎	
	11446 Aug 28 18:51	0°♏			11449 May 03 21:52	0°☾	
morning max el	11446 Sep 04 01:10	6°♏03'55	46°35'32	asc. node	11449 May 11 00:02	8°☾22'10	
	11446 Sep 26 21:15	0°♐			11449 May 29 17:15	0°♑	
	11446 Oct 23 12:57	0°♒			11449 Jun 26 11:47	0°♓	
	11446 Nov 18 05:27	0°♌		evening max el	11449 Jun 27 03:29	0°♓39'31	46°48'28
asc. node	11446 Nov 24 12:02	7°♌26'17			11449 Aug 03 01:09	0°♒	
	11446 Dec 13 08:38	0°♈		greatest brilliancy	11449 Aug 05 17:52	1°♒08'43	-4.9m
	11447 Jan 07 02:55	0°♉		retrograde	11449 Aug 16 12:52	3°♒19'39	
	11447 Jan 31 15:14	0°♊			11449 Aug 29 10:52	30°♒♐	
	11447 Feb 24 23:31	0°♋		evening set	11449 Aug 31 05:27	29°♐05'09	
morning set	11447 Mar 02 12:46	6°♋52'00		desc. node	11449 Aug 31 00:23	29°♐11'57	
desc. node	11447 Mar 16 03:56	23°♋45'34		min. Earth dist.	11449 Sep 05 23:46	25°♐42'27	0.27515 AU
	11447 Mar 21 04:34	0°♌		inferior conj	11449 Sep 06 13:34	25°♐21'15	-1°39'42
max. Earth dist.	11447 Apr 07 09:19	21°♌24'29	1.71985 AU	minimum elong	11449 Sep 06 09:46	25°♐27'05	1°38'38
				morning rise	11449 Sep 12 14:39	21°♐47'43	
superior conj	11447 Apr 10 19:54	25°♌42'00	-0°57'18	direct	11449 Sep 27 10:41	17°♐30'56	
minimum elong	11447 Apr 10 08:43	25°♌07'10	0°57'07	greatest brilliancy	11449 Oct 07 03:45	19°♐14'06	-4.8m
	11447 Apr 14 06:35	0°♍			11449 Oct 26 01:38	0°♒	
	11447 May 08 06:05	0°♎		morning max el	11449 Nov 15 11:10	17°♒42'22	45°52'14
evening rise	11447 May 20 12:27	15°♎22'18			11449 Nov 27 18:35	0°♌	
	11447 Jun 01 04:29	0°☾		asc. node	11449 Dec 22 00:18	26°♌10'06	
	11447 Jun 25 03:48	0°♏			11449 Dec 25 10:11	0°♈	
asc. node	11447 Jul 06 21:14	14°♏37'28			11450 Jan 20 10:20	0°♉	
	11447 Jul 19 06:18	0°♐			11450 Feb 14 14:39	0°♊	
	11447 Aug 12 14:25	0°♑			11450 Mar 11 07:29	0°♋	
	11447 Sep 06 07:52	0°♒			11450 Apr 04 16:50	0°♌	
	11447 Oct 01 17:35	0°♈		desc. node	11450 Apr 12 17:40	9°♌56'49	
desc. node	11447 Oct 26 18:22	28°♈11'11			11450 Apr 28 20:42	0°♍	
	11447 Oct 28 10:30	0°♉		morning set	11450 May 15 11:17	20°♍44'47	
evening max el	11447 Nov 19 21:21	23°♉03'38	45°50'14		11450 May 22 20:33	0°♎	
	11447 Nov 27 08:05	0°♊			11450 Jun 15 18:06	0°☾	
greatest brilliancy	11447 Dec 29 01:51	21°♊21'42	-4.7m				
retrograde	11448 Jan 07 17:31	23°♊03'41		superior conj	11450 Jun 24 17:23	11°☾16'16	-1°18'24
evening set	11448 Jan 23 16:49	18°♊11'09		minimum elong	11450 Jun 25 02:57	11°☾46'20	1°18'53
inferior conj	11448 Jan 29 01:13	14°♊56'42	-4°25'31	max. Earth dist.	11450 Jun 25 04:17	11°☾50'30	1.71349 AU
minimum elong	11448 Jan 29 09:58	14°♊42'58	4°22'39		11450 Jul 09 15:22	0°♏	
min. Earth dist.	11448 Jan 29 16:33	14°♊32'39	0.28486 AU		11450 Aug 02 14:12	0°♐	
morning rise	11448 Feb 04 02:35	11°♊17'01		asc. node	11450 Aug 03 10:02	1°♐01'59	
asc. node	11448 Feb 16 19:46	6°♊51'28		evening rise	11450 Aug 03 23:18	1°♐43'25	
direct	11448 Feb 19 08:19	6°♊43'49			11450 Aug 26 15:55	0°♑	
greatest brilliancy	11448 Mar 01 09:28	8°♊57'57	-4.8m		11450 Sep 19 21:49	0°♒	
	11448 Mar 31 07:34	0°♋			11450 Oct 14 09:59	0°♈	
morning max el	11448 Apr 09 04:17	8°♋29'47	46°25'06		11450 Nov 08 07:49	0°♉	
	11448 Apr 29 14:28	0°♌		desc. node	11450 Nov 23 05:07	17°♉36'28	
	11448 May 25 21:34	0°♍			11450 Dec 03 20:21	0°♊	
desc. node	11448 Jun 07 17:57	15°♍12'43			11450 Dec 30 08:20	0°♋	
	11448 Jun 20 01:08	0°♎			11451 Jan 27 20:45	0°♌	
	11448 Jul 14 15:28	0°☾		evening max el	11451 Jan 30 08:04	2°♌24'58	46°03'25
	11448 Aug 07 23:47	0°♏			11451 Mar 07 02:49	0°♍	
	11448 Sep 01 06:01	0°♐		greatest brilliancy	11451 Mar 10 18:17	1°♍28'30	-4.8m
	11448 Sep 25 11:52	0°♑		asc. node	11451 Mar 16 05:51	2°♍55'08	
asc. node	11448 Sep 28 11:19	3°♑40'59		retrograde	11451 Mar 20 17:03	3°♍18'18	
morning set	11448 Oct 11 17:13	20°♑04'22			11451 Apr 02 13:09	30°♍♌	
	11448 Oct 19 17:47	0°♒		evening set	11451 Apr 04 23:09	28°♌43'36	
	11448 Nov 12 23:59	0°♈		inferior conj	11451 Apr 10 12:13	25°♌24'35	5°56'02
				minimum elong	11451 Apr 10 01:28	25°♌41'14	5°53'10
superior conj	11448 Nov 17 23:37	6°♈09'40	1°25'11	min. Earth dist.	11451 Apr 10 11:37	25°♌25'31	0.27533 AU
minimum elong	11448 Nov 17 20:43	6°♈00'43	1°25'47	morning rise	11451 Apr 15 03:38	22°♌36'01	
max. Earth dist.	11448 Nov 19 03:20	7°♈35'18	1.73084 AU	direct	11451 May 01 10:36	17°♌25'38	
	11448 Dec 07 07:04	0°♉		greatest brilliancy	11451 May 11 11:39	19°♌20'13	-4.9m
evening rise	11448 Dec 24 20:27	21°♉37'46			11451 May 29 13:18	0°♍	
	11448 Dec 31 15:50	0°♊		morning max el	11451 Jun 20 23:04	20°♍16'43	46°58'14

	11451 Jun 30 08:27	0°♊			11453 Dec 16 18:35	0°♎		
desc. node	11451 Jul 06 05:33	6°♊19'27		desc. node	11453 Dec 20 16:36	4°♎44'16		
	11451 Jul 27 07:12	0°♎			11454 Jan 10 17:04	0°♋		
	11451 Aug 21 20:45	0°♏			11454 Feb 04 23:36	0°♐		
	11451 Sep 15 21:06	0°♑			11454 Mar 02 18:37	0°♌		
	11451 Oct 10 15:22	0°♒			11454 Mar 29 17:02	0°♍		
asc. node	11451 Oct 27 00:57	19°♒58'39		asc. node	11454 Apr 12 15:46	14°♍28'35		
	11451 Nov 04 05:50	0°♌		evening max el	11454 Apr 12 21:49	14°♍43'39	46°39'13	
	11451 Nov 28 17:11	0°♍			11454 Apr 29 08:21	0°♎		
morning set	11451 Dec 20 20:14	27°♍13'39		greatest brilliancy	11454 May 23 12:10	15°♎20'23	-4.9m	
	11451 Dec 23 02:14	0°♎		retrograde	11454 Jun 02 01:26	17°♎03'35		
	11452 Jan 16 09:59	0°♏		evening set	11454 Jun 19 15:48	11°♎09'20		
max. Earth dist.	11452 Jan 25 20:01	11°♏37'27	1.73048 AU	inferior conj	11454 Jun 22 17:34	9°♎17'00	8°27'18	
				minimum elong	11454 Jun 23 02:02	9°♎03'58	8°25'28	
superior conj	11452 Jan 26 17:10	12°♏42'42	0°45'50	min. Earth dist.	11454 Jun 23 02:20	9°♎03'29	0.27135 AU	
minimum elong	11452 Jan 27 02:06	13°♏10'16	0°46'02	morning rise	11454 Jun 26 12:12	6°♎59'32		
	11452 Feb 09 17:03	0°♋		direct	11454 Jul 13 10:30	1°♎28'03		
desc. node	11452 Feb 15 16:11	7°♋22'13		greatest brilliancy	11454 Jul 23 09:19	3°♎19'10	-4.9m	
evening rise	11452 Mar 04 22:07	29°♋56'36		desc. node	11454 Aug 02 16:11	8°♎27'31		
	11452 Mar 04 23:13	0°♐			11454 Aug 28 20:19	0°♏		
	11452 Mar 29 04:03	0°♌		morning max el	11454 Sep 01 13:54	3°♏39'09	46°37'13	
	11452 Apr 22 07:52	0°♊			11454 Sep 26 14:11	0°♑		
	11452 May 16 12:29	0°♎			11454 Oct 23 02:55	0°♒		
asc. node	11452 Jun 07 11:09	27°♎02'18			11454 Nov 17 17:55	0°♌		
	11452 Jun 09 21:09	0°♏		asc. node	11454 Nov 23 14:02	6°♌55'49		
	11452 Jul 04 14:38	0°♑			11454 Dec 12 20:16	0°♍		
	11452 Jul 30 01:03	0°♒			11455 Jan 06 14:07	0°♎		
	11452 Aug 25 23:56	0°♌			11455 Jan 31 02:13	0°♏		
evening max el	11452 Sep 06 13:58	11°♌53'43	46°17'01		11455 Feb 24 10:25	0°♋		
	11452 Sep 26 19:37	0°♍		morning set	11455 Feb 28 03:35	4°♋35'39		
desc. node	11452 Sep 27 10:21	0°♍28'25		desc. node	11455 Mar 15 05:53	23°♋17'53		
greatest brilliancy	11452 Oct 15 12:35	11°♍10'58	-4.8m		11455 Mar 20 15:27	0°♐		
retrograde	11452 Oct 26 05:52	13°♍16'09		max. Earth dist.	11455 Apr 04 22:44	19°♐02'44	1.72029 AU	
evening set	11452 Nov 13 06:59	7°♍06'55						
inferior conj	11452 Nov 16 17:27	4°♍58'47	-8°37'44	superior conj	11455 Apr 08 08:40	23°♐18'12	-0°54'24	
minimum elong	11452 Nov 16 14:09	5°♍03'59	8°36'57	minimum elong	11455 Apr 07 21:44	22°♐44'05	0°54'11	
min. Earth dist.	11452 Nov 16 07:11	5°♍14'56	0.28930 AU		11455 Apr 13 17:28	0°♌		
morning rise	11452 Nov 19 21:28	3°♍00'55			11455 May 07 17:03	0°♊		
	11452 Nov 25 08:34	30°♌		evening rise	11455 May 17 23:59	12°♊53'32		
direct	11452 Dec 08 03:51	26°♌47'53			11455 May 31 15:33	0°♎		
greatest brilliancy	11452 Dec 18 03:35	28°♌36'59	-4.7m		11455 Jun 24 15:02	0°♏		
	11452 Dec 21 14:46	0°♍		asc. node	11455 Jul 05 23:03	14°♏07'51		
asc. node	11453 Jan 18 11:17	19°♍55'27			11455 Jul 18 17:46	0°♑		
morning max el	11453 Jan 26 03:14	27°♍07'47	45°45'35		11455 Aug 12 02:16	0°♒		
	11453 Jan 29 01:27	0°♎			11455 Sep 05 20:22	0°♌		
	11453 Feb 26 06:19	0°♏			11455 Oct 01 07:22	0°♍		
	11453 Mar 24 07:37	0°♋		desc. node	11455 Oct 25 20:27	27°♍32'20		
	11453 Apr 18 10:03	0°♐			11455 Oct 28 03:13	0°♎		
desc. node	11453 May 10 07:09	26°♐41'47		evening max el	11455 Nov 17 11:41	20°♎49'06	45°50'39	
	11453 May 12 23:36	0°♌			11455 Nov 27 10:54	0°♏		
	11453 Jun 06 05:12	0°♊		greatest brilliancy	11455 Dec 26 16:36	19°♏09'06	-4.7m	
	11453 Jun 30 06:16	0°♎		retrograde	11456 Jan 05 08:59	20°♏51'51		
	11453 Jul 24 05:44	0°♏		evening set	11456 Jan 21 10:53	15°♏54'47		
morning set	11453 Jul 29 12:39	6°♏36'56		inferior conj	11456 Jan 26 16:51	12°♏43'58	-4°43'18	
	11453 Aug 17 05:40	0°♑		minimum elong	11456 Jan 27 01:59	12°♏29'39	4°40'22	
asc. node	11453 Aug 30 23:27	17°♑08'49		min. Earth dist.	11456 Jan 27 08:16	12°♏19'49	0.28532 AU	
				morning rise	11456 Feb 01 16:34	9°♏06'47		
superior conj	11453 Sep 06 16:03	25°♑29'06	0°16'12	asc. node	11456 Feb 15 21:46	4°♏31'50		
minimum elong	11453 Sep 06 12:17	25°♑17'20	0°15'54	direct	11456 Feb 17 00:02	4°♏30'24		
behind sun begin	11453 Sep 06 08:28	25°♑05'28		greatest brilliancy	11456 Feb 28 01:59	6°♏45'23	-4.8m	
behind sun end	11453 Sep 06 16:05	25°♑29'12			11456 Mar 31 09:09	0°♋		
max. Earth dist.	11453 Sep 09 08:19	28°♑49'10	1.72180 AU	morning max el	11456 Apr 06 20:11	6°♋15'13	46°23'29	
	11453 Sep 10 07:05	0°♒			11456 Apr 29 07:17	0°♐		
	11453 Oct 04 10:28	0°♌			11456 May 25 11:40	0°♌		
evening rise	11453 Oct 14 11:48	12°♌27'24		desc. node	11456 Jun 06 19:50	14°♌38'23		
	11453 Oct 28 16:36	0°♍			11456 Jun 19 13:57	0°♊		
	11453 Nov 22 02:48	0°♎			11456 Jul 14 03:34	0°♎		

	11456 Aug 07 11:25	0°♌	greatest brilliancy	11459 Mar 08 07:59	29°♍08'35	-4.8m
	11456 Aug 31 17:17	0°♍		11459 Mar 11 02:58	0°♌	
	11456 Sep 24 22:54	0°♎	asc. node	11459 Mar 15 07:53	0°♌47'44	
asc. node	11456 Sep 27 13:16	3°♎12'55	retrograde	11459 Mar 18 06:39	0°♌57'52	
morning set	11456 Oct 09 08:48	17°♎50'12		11459 Mar 25 04:15	30°♍	
	11456 Oct 19 04:40	0°♏	evening set	11459 Apr 02 10:21	26°♍27'20	
	11456 Nov 12 10:46	0°♐	inferior conj	11459 Apr 08 02:12	23°♍04'03	5°37'57
			minimum elong	11459 Apr 07 15:41	23°♍20'22	5°35'06
superior conj	11456 Nov 15 16:43	4°♐00'54 1°24'38	min. Earth dist.	11459 Apr 08 01:51	23°♍04'36	0.27550 AU
minimum elong	11456 Nov 15 13:05	3°♐49'41 1°25'13	morning rise	11459 Apr 12 20:53	20°♍10'29	
max. Earth dist.	11456 Nov 16 21:55	5°♐31'08 1.73066 AU	direct	11459 Apr 29 01:09	15°♍04'57	
	11456 Dec 06 17:51	0°♑	greatest brilliancy	11459 May 09 02:21	16°♍59'26	-4.9m
evening rise	11456 Dec 22 13:12	19°♑28'21		11459 May 30 02:48	0°♌	
	11456 Dec 31 02:43	0°♒	morning max el	11459 Jun 18 12:49	17°♌53'59	46°57'42
desc. node	11457 Jan 17 04:56	20°♒58'47		11459 Jun 30 03:46	0°♍	
	11457 Jan 24 13:38	0°♓	desc. node	11459 Jul 05 07:28	5°♍35'10	
	11457 Feb 18 02:15	0°♑		11459 Jul 26 22:23	0°♌	
	11457 Mar 14 16:28	0°♌		11459 Aug 21 10:08	0°♌	
	11457 Apr 08 09:57	0°♍		11459 Sep 15 09:28	0°♍	
	11457 May 03 11:50	0°♎		11459 Oct 10 03:04	0°♎	
asc. node	11457 May 10 01:57	7°♎45'23	asc. node	11459 Oct 26 02:51	19°♎29'46	
	11457 May 29 09:37	0°♌		11459 Nov 03 17:03	0°♏	
evening max el	11457 Jun 24 18:11	28°♌19'06 46°49'09		11459 Nov 28 04:07	0°♐	
	11457 Jun 26 10:37	0°♍	morning set	11459 Dec 18 13:23	25°♐05'28	
greatest brilliancy	11457 Aug 03 08:22	28°♍47'30 -4.9m		11459 Dec 22 13:00	0°♑	
	11457 Aug 07 01:04	0°♎		11460 Jan 15 20:43	0°♒	
retrograde	11457 Aug 14 03:50	0°♎58'33	max. Earth dist.	11460 Jan 23 12:50	9°♒28'03 1.73065 AU	
	11457 Aug 21 01:19	30°♏				
evening set	11457 Aug 28 19:21	26°♏44'18	superior conj	11460 Jan 24 09:28	10°♒31'45 0°48'41	
desc. node	11457 Aug 30 02:25	26°♏01'25	minimum elong	11460 Jan 24 18:41	11°♒00'10 0°48'53	
min. Earth dist.	11457 Sep 03 14:07	23°♏20'57 0.27469 AU		11460 Feb 09 03:50	0°♓	
inferior conj	11457 Sep 04 03:20	23°♏00'43 -1°16'58	desc. node	11460 Feb 14 18:10	6°♓55'01	
minimum elong	11457 Sep 04 00:22	23°♏05'15 1°16'12	evening rise	11460 Mar 02 13:14	27°♓41'07	
morning rise	11457 Sep 10 06:00	19°♏25'32		11460 Mar 04 10:06	0°♑	
direct	11457 Sep 25 00:24	15°♏10'56		11460 Mar 28 15:05	0°♌	
greatest brilliancy	11457 Oct 04 17:08	16°♏54'20 -4.8m		11460 Apr 21 19:08	0°♍	
	11457 Oct 26 15:11	0°♎		11460 May 16 00:07	0°♎	
morning max el	11457 Nov 13 02:32	15°♎28'28 45°53'20	asc. node	11460 Jun 06 13:00	26°♎30'49	
	11457 Nov 27 13:26	0°♏		11460 Jun 09 09:21	0°♌	
asc. node	11457 Dec 21 02:06	25°♏33'12		11460 Jul 04 03:44	0°♍	
	11457 Dec 25 00:47	0°♐		11460 Jul 29 15:50	0°♎	
	11458 Jan 19 23:08	0°♑		11460 Aug 25 18:45	0°♏	
	11458 Feb 14 02:33	0°♒	evening max el	11460 Sep 04 04:54	9°♏37'27 46°18'16	
	11458 Mar 10 18:55	0°♓	desc. node	11460 Sep 26 12:26	29°♏20'15	
	11458 Apr 04 04:02	0°♑		11460 Sep 27 09:59	0°♐	
desc. node	11458 Apr 11 19:38	9°♑28'21	greatest brilliancy	11460 Oct 13 04:31	8°♐59'12 -4.8m	
	11458 Apr 28 07:49	0°♌	retrograde	11460 Oct 23 21:21	11°♐04'19	
morning set	11458 May 12 22:29	18°♌15'04	evening set	11460 Nov 10 20:39	4°♐59'02	
	11458 May 22 07:37	0°♍	inferior conj	11460 Nov 14 09:22	2°♐47'27 -8°34'13	
	11458 Jun 15 05:08	0°♎	minimum elong	11460 Nov 14 05:18	2°♐53'51 8°33'22	
			min. Earth dist.	11460 Nov 13 22:19	3°♐04'50 0.28900 AU	
superior conj	11458 Jun 22 04:46	8°♎46'35 -1°20'04	morning rise	11460 Nov 17 14:05	0°♐48'22	
minimum elong	11458 Jun 22 13:40	9°♎14'31 1°20'36		11460 Nov 18 22:34	30°♏	
max. Earth dist.	11458 Jun 22 14:06	9°♎15'52 1.71343 AU	direct	11460 Dec 05 19:12	24°♏37'15	
	11458 Jul 09 02:23	0°♌	greatest brilliancy	11460 Dec 15 18:16	26°♏25'14 -4.7m	
evening rise	11458 Aug 01 11:39	29°♌17'33		11460 Dec 23 14:56	0°♐	
asc. node	11458 Aug 02 11:54	0°♍33'19	asc. node	11461 Jan 17 13:21	19°♐02'16	
	11458 Aug 02 01:14	0°♍	morning max el	11461 Jan 23 17:19	24°♐52'01 45°44'55	
	11458 Aug 26 03:01	0°♎		11461 Jan 28 22:02	0°♑	
	11458 Sep 19 09:05	0°♏		11461 Feb 25 21:25	0°♒	
	11458 Oct 13 21:35	0°♐		11461 Mar 23 20:42	0°♓	
	11458 Nov 07 20:03	0°♑		11461 Apr 17 22:09	0°♑	
desc. node	11458 Nov 22 07:00	17°♑04'20	desc. node	11461 May 09 08:59	26°♑11'49	
	11458 Dec 03 09:45	0°♒		11461 May 12 11:09	0°♌	
	11458 Dec 30 00:11	0°♓		11461 Jun 05 16:25	0°♍	
	11459 Jan 27 19:09	0°♑		11461 Jun 29 17:17	0°♎	
evening max el	11459 Jan 27 23:30	0°♑10'33 46°02'23		11461 Jul 23 16:38	0°♌	



morning set	11461 Jul 27 01:44	4°♌13'46		retrograde	11464 Jan 03 00:48	18°♊40'47	
	11461 Aug 16 16:28	0°♍		evening set	11464 Jan 19 05:06	13°♊39'17	
asc. node	11461 Aug 30 01:26	16°♍41'29		inferior conj	11464 Jan 24 08:30	10°♊32'05	-5°00'32
				minimum elong	11464 Jan 24 17:58	10°♊17'16	4°57'33
superior conj	11461 Sep 04 06:17	23°♍10'30	0°12'39	min. Earth dist.	11464 Jan 24 23:38	10°♊08'25	0.28574 AU
minimum elong	11461 Sep 04 03:20	23°♍01'17	0°12'21	morning rise	11464 Jan 30 06:24	6°♊57'45	
behind sun begin	11461 Sep 03 11:31	22°♍12'00		direct	11464 Feb 14 16:16	2°♊18'07	
behind sun end	11461 Sep 04 19:09	23°♍50'34		asc. node	11464 Feb 14 23:48	2°♊18'14	
max. Earth dist.	11461 Sep 06 20:59	26°♍25'44	1.72142 AU	greatest brilliancy	11464 Feb 25 17:51	4°♊33'13	-4.8m
	11461 Sep 09 17:49	0°♊			11464 Mar 31 09:00	0°♋	
	11461 Oct 03 21:11	0°♌		morning max el	11464 Apr 04 12:37	4°♋03'17	46°21'49
evening rise	11461 Oct 12 03:54	10°♌15'25			11464 Apr 28 23:23	0°♋	
	11461 Oct 28 03:23	0°♍			11464 May 25 01:14	0°♌	
	11461 Nov 21 13:46	0°♎		desc. node	11464 Jun 05 21:41	14°♌05'20	
	11461 Dec 16 05:55	0°♏			11464 Jun 19 02:20	0°♍	
desc. node	11461 Dec 19 18:30	4°♏15'34			11464 Jul 13 15:15	0°♎	
	11462 Jan 10 05:00	0°♐			11464 Aug 06 22:37	0°♏	
	11462 Feb 04 12:32	0°♑			11464 Aug 31 04:09	0°♐	
	11462 Mar 02 09:20	0°♒			11464 Sep 24 09:31	0°♑	
	11462 Mar 29 11:46	0°♓		asc. node	11464 Sep 26 15:05	2°♑45'47	
evening max el	11462 Apr 10 10:10	12°♓18'14	46°38'12	morning set	11464 Oct 07 00:36	15°♑37'59	
asc. node	11462 Apr 11 17:46	13°♓36'37			11464 Oct 18 15:07	0°♒	
	11462 Apr 29 19:03	0°♔			11464 Nov 11 21:10	0°♓	
greatest brilliancy	11462 May 21 01:51	12°♔56'44	-4.9m				
retrograde	11462 May 30 14:12	14°♔39'37		superior conj	11464 Nov 13 09:50	1°♓53'20	1°23'58
evening set	11462 Jun 17 07:54	8°♔40'31		minimum elong	11464 Nov 13 05:32	1°♓40'01	1°24'32
inferior conj	11462 Jun 20 06:37	6°♔52'54	8°36'25	max. Earth dist.	11464 Nov 14 18:10	3°♓33'16	1.73052 AU
minimum elong	11462 Jun 20 14:24	6°♔40'56	8°34'47		11464 Dec 06 04:16	0°♔	
min. Earth dist.	11462 Jun 20 15:33	6°♔39'10	0.27149 AU	evening rise	11464 Dec 20 05:54	17°♔19'50	
morning rise	11462 Jun 23 20:50	4°♔42'00			11464 Dec 30 13:14	0°♕	
	11462 Jul 04 04:02	30°♕♐		desc. node	11465 Jan 16 06:55	20°♕32'09	
direct	11462 Jul 10 23:00	29°♕03'20			11465 Jan 24 00:23	0°♋	
	11462 Jul 17 23:36	0°♖			11465 Feb 17 13:21	0°♑	
greatest brilliancy	11462 Jul 20 22:45	0°♖55'14	-4.9m		11465 Mar 14 04:04	0°♒	
desc. node	11462 Aug 01 18:15	7°♖02'19			11465 Apr 07 22:19	0°♓	
	11462 Aug 28 20:12	0°♏			11465 May 03 01:28	0°♔	
morning max el	11462 Aug 30 03:39	1°♏17'38	46°38'43	asc. node	11465 May 09 03:51	7°♔09'36	
	11462 Sep 26 06:35	0°♐			11465 May 29 01:47	0°♏	
	11462 Oct 22 16:35	0°♑		evening max el	11465 Jun 22 09:44	26°♏02'05	46°49'40
	11462 Nov 17 06:12	0°♒			11465 Jun 26 09:54	0°♐	
asc. node	11462 Nov 22 15:50	6°♒25'13		greatest brilliancy	11465 Jul 31 23:13	26°♐28'04	-4.9m
	11462 Dec 12 07:46	0°♓		retrograde	11465 Aug 11 18:39	28°♐38'38	
	11463 Jan 06 01:08	0°♔		evening set	11465 Aug 26 09:33	24°♐24'44	
	11463 Jan 30 12:59	0°♕		desc. node	11465 Aug 29 04:26	22°♐49'53	
	11463 Feb 23 21:04	0°♋		min. Earth dist.	11465 Sep 01 04:33	21°♐00'49	0.27423 AU
morning set	11463 Feb 25 18:35	2°♋20'44		inferior conj	11465 Sep 01 17:06	20°♐41'34	-0°54'08
desc. node	11463 Mar 14 07:46	22°♋50'47		minimum elong	11465 Sep 01 15:00	20°♐44'47	0°53'39
	11463 Mar 20 02:04	0°♑		morning rise	11465 Sep 07 21:10	17°♐04'49	
max. Earth dist.	11463 Apr 02 14:00	16°♑47'35	1.72073 AU	direct	11465 Sep 22 14:26	12°♐52'32	
				greatest brilliancy	11465 Oct 02 06:17	14°♐35'36	-4.8m
superior conj	11463 Apr 05 21:39	20°♑55'48	-0°51'24		11465 Oct 27 00:33	0°♑	
minimum elong	11463 Apr 05 11:02	20°♑22'40	0°51'10	morning max el	11465 Nov 10 17:20	13°♑14'41	45°54'25
	11463 Apr 13 04:08	0°♒			11465 Nov 27 07:15	0°♒	
	11463 May 07 03:48	0°♓		asc. node	11465 Dec 20 04:09	24°♒58'42	
evening rise	11463 May 15 11:54	10°♓26'48			11465 Dec 24 14:44	0°♓	
	11463 May 31 02:24	0°♔			11466 Jan 19 11:27	0°♔	
	11463 Jun 24 02:00	0°♏			11466 Feb 13 14:03	0°♕	
asc. node	11463 Jul 05 01:00	13°♏39'34			11466 Mar 10 05:58	0°♋	
	11463 Jul 18 04:55	0°♐			11466 Apr 03 14:51	0°♑	
	11463 Aug 11 13:48	0°♑		desc. node	11466 Apr 10 21:28	9°♑00'40	
	11463 Sep 05 08:37	0°♒			11466 Apr 27 18:30	0°♒	
	11463 Sep 30 21:00	0°♓		morning set	11466 May 10 09:43	15°♒46'49	
desc. node	11463 Oct 24 22:19	26°♓53'15			11466 May 21 18:14	0°♓	
	11463 Oct 27 20:00	0°♔			11466 Jun 14 15:44	0°♔	
evening max el	11463 Nov 15 03:05	18°♔37'51	45°51'03				
	11463 Nov 27 15:08	0°♕		superior conj	11466 Jun 19 16:13	6°♔18'24	-1°21'34
greatest brilliancy	11463 Dec 24 06:57	16°♕56'57	-4.7m	minimum elong	11466 Jun 20 00:22	6°♔44'01	1°22'10

max. Earth dist.	11466 Jun 19 22:55	6°☿39'27	1.71338 AU		11468 Dec 24 22:40	0°♊	
	11466 Jul 08 13:00	0°♋		asc. node	11469 Jan 16 15:20	18°♊10'40	
evening rise	11466 Jul 29 23:55	26°♋52'31		morning max el	11469 Jan 21 07:28	22°♊37'07	45°44'28
	11466 Aug 01 11:54	0°♌			11469 Jan 28 17:40	0°♋	
asc. node	11466 Aug 01 13:53	0°♌06'14			11469 Feb 25 12:04	0°♌	
	11466 Aug 25 13:46	0°♍			11469 Mar 23 09:29	0°♍	
	11466 Sep 18 19:59	0°♎			11469 Apr 17 10:02	0°♎	
	11466 Oct 13 08:49	0°♏		desc. node	11469 May 08 10:54	25°♎42'30	
	11466 Nov 07 07:54	0°♐			11469 May 11 22:34	0°♏	
desc. node	11466 Nov 21 08:58	16°♐33'35			11469 Jun 05 03:31	0°♐	
	11466 Dec 02 22:51	0°♑			11469 Jun 29 04:12	0°♑	
	11466 Dec 29 15:52	0°♒			11469 Jul 23 03:24	0°♋	
evening max el	11467 Jan 25 14:09	27°♒55'15	46°01'12	morning set	11469 Jul 24 14:26	1°♋49'39	
	11467 Jan 27 18:07	0°♓			11469 Aug 16 03:08	0°♌	
greatest brilliancy	11467 Mar 05 22:11	26°♓50'01	-4.8m	asc. node	11469 Aug 29 03:12	16°♌13'54	
asc. node	11467 Mar 14 09:52	28°♓36'00					
retrograde	11467 Mar 15 19:46	28°♓38'20		superior conj	11469 Sep 01 20:17	20°♌51'32	0°09'03
evening set	11467 Mar 30 21:42	24°♓11'35		minimum elong	11469 Sep 01 18:10	20°♌44'56	0°08'45
inferior conj	11467 Apr 05 16:11	20°♓44'32	5°19'17	behind sun begin	11469 Aug 31 21:26	19°♌40'22	
minimum elong	11467 Apr 05 05:58	21°♓00'25	5°16'27	behind sun end	11469 Sep 02 14:53	21°♌49'30	
min. Earth dist.	11467 Apr 05 16:28	20°♓44'07	0.27567 AU	max. Earth dist.	11469 Sep 04 08:59	24°♌00'40	1.72105 AU
morning rise	11467 Apr 10 14:01	17°♓46'05			11469 Sep 09 04:24	0°♍	
direct	11467 Apr 26 15:12	12°♓45'09			11469 Oct 03 07:47	0°♎	
greatest brilliancy	11467 May 06 17:41	14°♓40'20	-4.9m	evening rise	11469 Oct 09 19:58	8°♎03'44	
	11467 May 30 12:22	0°♏			11469 Oct 27 14:04	0°♏	
morning max el	11467 Jun 16 01:36	15°♏29'50	46°57'13		11469 Nov 21 00:41	0°♐	
	11467 Jun 29 22:08	0°♑		desc. node	11469 Dec 15 17:11	0°♑	
desc. node	11467 Jul 04 09:36	4°♑53'12			11469 Dec 18 20:32	3°♑47'29	
	11467 Jul 26 12:57	0°☿			11470 Jan 09 16:52	0°♒	
	11467 Aug 20 23:01	0°♋			11470 Feb 04 01:26	0°♓	
	11467 Sep 14 21:24	0°♌			11470 Mar 02 00:09	0°♏	
	11467 Oct 09 14:22	0°♍			11470 Mar 29 06:59	0°♎	
asc. node	11467 Oct 25 04:41	19°♍01'48		evening max el	11470 Apr 07 22:53	9°♎53'55	46°37'03
	11467 Nov 03 03:56	0°♎		asc. node	11470 Apr 10 19:39	12°♎43'24	
	11467 Nov 27 14:42	0°♏			11470 Apr 30 09:36	0°☿	
morning set	11467 Dec 16 06:42	22°♏58'44		greatest brilliancy	11470 May 18 14:36	10°☿31'29	-4.9m
	11467 Dec 21 23:26	0°♐		retrograde	11470 May 28 03:10	12°☿14'49	
	11468 Jan 15 07:07	0°♑		evening set	11470 Jun 14 23:33	6°☿10'55	
max. Earth dist.	11468 Jan 21 05:37	7°♑19'38	1.73085 AU	inferior conj	11470 Jun 17 19:25	4°☿27'42	8°44'38
				minimum elong	11470 Jun 18 02:27	4°☿16'55	8°43'12
superior conj	11468 Jan 22 01:58	8°♑22'26	0°51'24	min. Earth dist.	11470 Jun 18 04:09	4°☿14'18	0.27166 AU
minimum elong	11468 Jan 22 11:24	8°♑51'33	0°51'38	morning rise	11470 Jun 21 05:18	2°☿23'25	
	11468 Feb 08 14:19	0°♒			11470 Jun 25 13:30	30°♒♎	
desc. node	11468 Feb 13 20:05	6°♒28'30		direct	11470 Jul 08 11:53	26°♎37'31	
evening rise	11468 Feb 29 04:22	25°♒26'40		greatest brilliancy	11470 Jul 18 11:38	28°♎29'55	-4.9m
	11468 Mar 03 20:43	0°♓			11470 Jul 22 02:58	0°☿	
	11468 Mar 28 01:54	0°♏		desc. node	11470 Jul 31 20:14	5°☿39'17	
	11468 Apr 21 06:12	0°♎		morning max el	11470 Aug 27 18:00	28°☿57'16	46°40'15
	11468 May 15 11:33	0°☿			11470 Aug 28 19:11	0°♋	
asc. node	11468 Jun 05 15:00	26°☿00'29			11470 Sep 25 22:45	0°♌	
	11468 Jun 08 21:20	0°♋			11470 Oct 22 06:09	0°♍	
	11468 Jul 03 16:39	0°♌			11470 Nov 16 18:26	0°♎	
	11468 Jul 29 06:31	0°♍		asc. node	11470 Nov 21 17:49	5°♎55'15	
	11468 Aug 25 13:49	0°♎			11470 Dec 11 19:16	0°♏	
evening max el	11468 Sep 01 19:02	7°♎19'47	46°19'30		11471 Jan 05 12:12	0°♐	
desc. node	11468 Sep 25 14:22	28°♎10'30			11471 Jan 29 23:49	0°♑	
	11468 Sep 28 04:58	0°♏		morning set	11471 Feb 23 09:58	0°♒06'48	
greatest brilliancy	11468 Oct 10 20:10	6°♏47'24	-4.8m		11471 Feb 23 07:46	0°♒	
retrograde	11468 Oct 21 12:48	8°♏52'58		desc. node	11471 Mar 13 09:35	22°♒23'21	
evening set	11468 Nov 08 09:52	2°♏51'47			11471 Mar 19 12:43	0°♓	
min. Earth dist.	11468 Nov 11 13:29	0°♏54'50	0.28869 AU	max. Earth dist.	11471 Mar 31 06:18	14°♓35'34	1.72113 AU
inferior conj	11468 Nov 12 01:10	0°♏36'30	-8°29'55				
minimum elong	11468 Nov 11 20:20	0°♏44'05	8°28'59	superior conj	11471 Apr 03 10:53	18°♓34'05	-0°48'21
	11468 Nov 13 00:25	30°♒♎		minimum elong	11471 Apr 03 00:39	18°♓02'12	0°48'05
morning rise	11468 Nov 15 06:56	28°♎35'49			11471 Apr 12 14:50	0°♏	
direct	11468 Dec 03 10:06	22°♎26'46			11471 May 06 14:36	0°♎	
greatest brilliancy	11468 Dec 13 09:25	24°♎14'30	-4.7m	evening rise	11471 May 12 23:58	8°♎00'20	

	11471 May 30 13:20	0°☿		11474 Jan 19 00:02	0°♄
	11471 Jun 23 13:07	0°♌		11474 Feb 13 01:50	0°♊
asc. node	11471 Jul 04 02:57	13°♌10'39		11474 Mar 09 17:20	0°♋
	11471 Jul 17 16:18	0°♍		11474 Apr 03 02:00	0°♎
	11471 Aug 11 01:35	0°♎	desc. node	11474 Apr 09 23:21	8°♎32'05
	11471 Sep 04 21:09	0°♏		11474 Apr 27 05:33	0°♐
	11471 Sep 30 10:59	0°♐	morning set	11474 May 07 21:05	13°♐17'55
desc. node	11471 Oct 24 00:20	26°♐13'34		11474 May 21 05:12	0°♑
	11471 Oct 27 13:23	0°♑		11474 Jun 14 02:38	0°☿
evening max el	11471 Nov 12 18:54	16°♑27'03 45°51'29			
	11471 Nov 27 21:43	0°♒	superior conj	11474 Jun 17 04:00	3°☿50'25 -1°22'55
greatest brilliancy	11471 Dec 21 21:18	14°♒44'15 -4.7m	minimum elong	11474 Jun 17 11:21	4°☿13'31 1°23'32
retrograde	11471 Dec 31 16:31	16°♒28'51	max. Earth dist.	11474 Jun 17 05:29	3°☿55'04 1.71331 AU
evening set	11472 Jan 16 23:20	11°♒23'06		11474 Jul 07 23:54	0°♌
inferior conj	11472 Jan 22 00:03	8°♒19'26 -5°17'21	evening rise	11474 Jul 27 12:21	24°♌27'10
minimum elong	11472 Jan 22 09:48	8°♒04'11 5°14'23	asc. node	11474 Jul 31 15:41	29°♌37'39
min. Earth dist.	11472 Jan 22 14:42	7°♒56'31 0.28613 AU		11474 Jul 31 22:50	0°♍
morning rise	11472 Jan 27 19:56	4°♒48'05		11474 Aug 25 00:49	0°♎
direct	11472 Feb 12 08:46	0°♒05'15		11474 Sep 18 07:14	0°♏
asc. node	11472 Feb 14 01:44	0°♒08'43		11474 Oct 12 20:26	0°♐
greatest brilliancy	11472 Feb 23 09:06	2°♒19'36 -4.8m		11474 Nov 06 20:13	0°♑
	11472 Mar 31 08:01	0°♋	desc. node	11474 Nov 20 10:59	16°♑01'44
morning max el	11472 Apr 02 04:45	1°♋50'11 46°20'16		11474 Dec 02 12:29	0°♒
	11472 Apr 28 15:22	0°♎		11474 Dec 29 08:17	0°♋
	11472 May 24 14:50	0°♐	evening max el	11475 Jan 23 03:49	25°♋36'32 46°00'09
desc. node	11472 Jun 04 23:46	13°♐32'42		11475 Jan 27 18:40	0°♎
	11472 Jun 18 14:48	0°♑	greatest brilliancy	11475 Mar 03 12:30	24°♎30'35 -4.8m
	11472 Jul 13 03:06	0°☿	retrograde	11475 Mar 13 08:51	26°♎18'09
	11472 Aug 06 10:03	0°♌	asc. node	11475 Mar 13 11:50	26°♎18'08
	11472 Aug 30 15:17	0°♍	evening set	11475 Mar 28 09:17	21°♎54'26
	11472 Sep 23 20:26	0°♎	inferior conj	11475 Apr 03 06:14	18°♎24'10 5°00'10
asc. node	11472 Sep 25 16:58	2°♎17'54	minimum elong	11475 Apr 02 20:22	18°♎39'30 4°57'21
morning set	11472 Oct 04 16:05	13°♎23'50	min. Earth dist.	11475 Apr 03 07:19	18°♎22'30 0.27587 AU
	11472 Oct 18 01:53	0°♏	morning rise	11475 Apr 08 07:08	15°♎21'02
			direct	11475 Apr 24 04:55	10°♎24'11
superior conj	11472 Nov 11 02:41	29°♏44'02 1°23'10	greatest brilliancy	11475 May 04 09:35	12°♎20'50 -4.9m
minimum elong	11472 Nov 10 21:43	29°♏28'39 1°23'41		11475 May 30 19:47	0°♐
	11472 Nov 11 07:51	0°♐	morning max el	11475 Jun 13 14:31	13°♐04'56 46°56'54
max. Earth dist.	11472 Nov 12 15:01	1°♐36'19 1.73031 AU		11475 Jun 29 16:25	0°♑
	11472 Dec 05 14:58	0°♑	desc. node	11475 Jul 03 11:27	4°♑10'01
evening rise	11472 Dec 17 22:27	15°♑09'58		11475 Jul 26 03:40	0°☿
	11472 Dec 30 00:04	0°♒		11475 Aug 20 12:05	0°♌
desc. node	11473 Jan 15 08:48	20°♒04'13		11475 Sep 14 09:33	0°♍
	11473 Jan 23 11:27	0°♋		11475 Oct 09 01:56	0°♎
	11473 Feb 17 00:47	0°♎	asc. node	11475 Oct 24 06:38	18°♎33'20
	11473 Mar 13 16:01	0°♐		11475 Nov 02 15:05	0°♏
	11473 Apr 07 11:01	0°♑		11475 Nov 27 01:36	0°♐
	11473 May 02 15:28	0°☿	morning set	11475 Dec 13 23:54	20°♐50'31
asc. node	11473 May 08 05:57	6°☿33'31		11475 Dec 21 10:13	0°♑
	11473 May 28 18:29	0°♌		11476 Jan 14 17:53	0°♒
evening max el	11473 Jun 20 00:55	23°♌43'23 46°49'58	max. Earth dist.	11476 Jan 18 23:02	5°♒12'06 1.73104 AU
	11473 Jun 26 10:36	0°♍			
greatest brilliancy	11473 Jul 29 14:26	24°♍08'08 -4.9m	superior conj	11476 Jan 19 18:23	6°♒11'49 0°54'04
retrograde	11473 Aug 09 08:57	26°♍17'23	minimum elong	11476 Jan 20 04:00	6°♒41'29 0°54'19
evening set	11473 Aug 23 23:56	22°♍03'46		11476 Feb 08 01:08	0°♋
desc. node	11473 Aug 28 06:22	19°♍35'21	desc. node	11476 Feb 12 21:50	6°♋00'28
inferior conj	11473 Aug 30 06:50	18°♍21'11 -0°31'03	evening rise	11476 Feb 26 19:28	23°♋11'14
minimum elong	11473 Aug 30 05:38	18°♍23'02 0°30'52		11476 Mar 03 07:41	0°♎
min. Earth dist.	11473 Aug 29 19:12	18°♍39'03 0.27382 AU		11476 Mar 27 13:03	0°♐
morning rise	11473 Sep 05 12:04	14°♍42'50		11476 Apr 20 17:39	0°♑
direct	11473 Sep 20 04:20	10°♍32'51		11476 May 14 23:23	0°☿
greatest brilliancy	11473 Sep 29 19:45	12°♍15'40 -4.8m	asc. node	11476 Jun 04 16:57	25°☿28'47
	11473 Oct 27 07:52	0°♎		11476 Jun 08 09:45	0°♌
morning max el	11473 Nov 08 07:17	10°♎57'20 45°55'31		11476 Jul 03 05:59	0°♍
	11473 Nov 27 01:05	0°♏		11476 Jul 28 21:40	0°♎
asc. node	11473 Dec 19 06:09	24°♏23'12		11476 Aug 25 09:41	0°♏
	11473 Dec 24 04:55	0°♐	evening max el	11476 Aug 30 09:12	5°♏01'37 46°20'52

desc. node	11476 Sep 24 16:22	26° $\mathbb{M}$ 58'30			11479 Jan 29 10:42	0° $\approx$	
	11476 Sep 29 07:18	0° $\mathcal{A}$		morning set	11479 Feb 21 01:28	27° $\approx$ 53'02	
greatest brilliancy	11476 Oct 08 11:13	4° $\mathcal{A}$ 34'28	-4.8m		11479 Feb 22 18:34	0° $\mathcal{H}$	
retrograde	11476 Oct 19 04:41	6° $\mathcal{A}$ 41'27		desc. node	11479 Mar 12 11:32	21° $\mathcal{H}$ 55'54	
evening set	11476 Nov 05 22:59	0° $\mathcal{A}$ 44'20			11479 Mar 18 23:31	0° $\mathcal{Y}$	
	11476 Nov 07 04:11	30° $\mathcal{R}\mathbb{M}$		max. Earth dist.	11479 Mar 28 20:45	12° $\mathcal{Y}$ 17'25	1.72155 AU
min. Earth dist.	11476 Nov 09 04:33	28° $\mathbb{M}$ 44'48	0.28840 AU				
inferior conj	11476 Nov 09 17:06	28° $\mathbb{M}$ 25'09	-8°24'53	superior conj	11479 Apr 01 00:02	16° $\mathcal{Y}$ 11'47	-0°45'12
minimum elong	11476 Nov 09 11:33	28° $\mathbb{M}$ 33'50	8°23'50	minimum elong	11479 Mar 31 14:16	15° $\mathcal{Y}$ 41'23	0°44'54
morning rise	11476 Nov 13 00:13	26° $\mathbb{M}$ 22'36			11479 Apr 12 01:42	0° $\mathcal{B}$	
direct	11476 Dec 01 01:13	20° $\mathbb{M}$ 15'46			11479 May 06 01:33	0° $\mathbb{I}$	
greatest brilliancy	11476 Dec 11 00:49	22° $\mathbb{M}$ 03'35	-4.7m	evening rise	11479 May 10 11:52	5° $\mathbb{I}$ 32'58	
	11476 Dec 25 21:41	0° $\mathcal{A}$			11479 May 30 00:24	0° $\mathcal{E}$	
asc. node	11477 Jan 15 17:13	17° $\mathcal{A}$ 19'00			11479 Jun 23 00:20	0° $\mathcal{Q}$	
morning max el	11477 Jan 18 22:33	20° $\mathcal{A}$ 23'41	45°43'59	asc. node	11479 Jul 03 04:47	12° $\mathcal{Q}$ 41'05	
	11477 Jan 28 13:04	0° $\mathcal{B}$			11479 Jul 17 03:47	0° $\mathcal{M}$	
	11477 Feb 25 02:52	0° $\approx$			11479 Aug 10 13:32	0° $\mathcal{L}$	
	11477 Mar 22 22:30	0° $\mathcal{H}$			11479 Sep 04 09:51	0° $\mathbb{M}$	
	11477 Apr 16 22:10	0° $\mathcal{Y}$			11479 Sep 30 01:10	0° $\mathcal{A}$	
desc. node	11477 May 07 12:53	25° $\mathcal{Y}$ 12'38		desc. node	11479 Oct 23 02:25	25° $\mathcal{A}$ 33'41	
	11477 May 11 10:12	0° $\mathcal{B}$			11479 Oct 27 07:08	0° $\mathcal{B}$	
	11477 Jun 04 14:52	0° $\mathbb{I}$		evening max el	11479 Nov 10 11:00	14° $\mathcal{B}$ 17'01	45°52'01
	11477 Jun 28 15:23	0° $\mathcal{E}$			11479 Nov 28 06:41	0° $\approx$	
morning set	11477 Jul 22 03:06	29° $\mathcal{E}$ 24'28		greatest brilliancy	11479 Dec 19 12:17	12° $\approx$ 33'05	-4.7m
	11477 Jul 22 14:27	0° $\mathcal{Q}$		retrograde	11479 Dec 29 08:10	14° $\approx$ 17'49	
	11477 Aug 15 14:03	0° $\mathcal{M}$		evening set	11480 Jan 14 17:54	9° $\approx$ 08'04	
asc. node	11477 Aug 28 05:06	15° $\mathcal{M}$ 45'56		inferior conj	11480 Jan 19 15:53	6° $\approx$ 07'53	-5°33'33
				minimum elong	11480 Jan 20 01:50	5° $\approx$ 52'19	5°30'35
superior conj	11477 Aug 30 10:21	18° $\mathcal{M}$ 31'56	0°05'26	min. Earth dist.	11480 Jan 20 06:00	5° $\approx$ 45'46	0.28650 AU
minimum elong	11477 Aug 30 09:05	18° $\mathcal{M}$ 28'02	0°05'09	morning rise	11480 Jan 25 09:31	2° $\approx$ 39'35	
behind sun begin	11477 Aug 29 09:43	17° $\mathcal{M}$ 15'09			11480 Jan 30 19:50	30° $\mathcal{R}\mathcal{B}$	
behind sun end	11477 Aug 31 08:28	19° $\mathcal{M}$ 40'54		direct	11480 Feb 10 01:27	27° $\mathcal{B}$ 53'42	
max. Earth dist.	11477 Sep 01 21:20	21° $\mathcal{M}$ 35'50	1.72064 AU	asc. node	11480 Feb 13 03:44	28° $\mathcal{B}$ 04'58	
	11477 Sep 08 15:14	0° $\mathcal{L}$			11480 Feb 20 17:17	0° $\approx$	
	11477 Oct 02 18:34	0° $\mathbb{M}$		greatest brilliancy	11480 Feb 21 00:22	0° $\approx$ 06'45	-4.8m
evening rise	11477 Oct 07 12:19	5° $\mathbb{M}$ 52'20		morning max el	11480 Mar 30 20:10	29° $\approx$ 35'32	46°18'28
	11477 Oct 27 00:57	0° $\mathcal{A}$			11480 Mar 31 06:01	0° $\mathcal{H}$	
	11477 Nov 20 11:46	0° $\mathcal{B}$			11480 Apr 28 07:07	0° $\mathcal{Y}$	
	11477 Dec 15 04:40	0° $\approx$			11480 May 24 04:22	0° $\mathcal{B}$	
desc. node	11477 Dec 17 22:24	3° $\approx$ 18'18		desc. node	11480 Jun 04 01:36	12° $\mathcal{B}$ 59'22	
	11478 Jan 09 05:00	0° $\mathcal{H}$			11480 Jun 18 03:15	0° $\mathbb{I}$	
	11478 Feb 03 14:40	0° $\mathcal{Y}$			11480 Jul 12 14:54	0° $\mathcal{E}$	
	11478 Mar 01 15:26	0° $\mathcal{B}$			11480 Aug 05 21:25	0° $\mathcal{Q}$	
	11478 Mar 29 03:04	0° $\mathbb{I}$			11480 Aug 30 02:21	0° $\mathcal{M}$	
evening max el	11478 Apr 05 12:34	7° $\mathbb{I}$ 31'32	46°35'59		11480 Sep 23 07:17	0° $\mathcal{L}$	
asc. node	11478 Apr 09 21:46	11° $\mathbb{I}$ 49'05		asc. node	11480 Sep 24 18:54	1° $\mathcal{L}$ 50'19	
	11478 May 01 05:30	0° $\mathcal{E}$		morning set	11480 Oct 02 07:26	11° $\mathcal{L}$ 09'25	
greatest brilliancy	11478 May 16 02:45	8° $\mathcal{E}$ 05'14	-4.9m		11480 Oct 17 12:36	0° $\mathbb{M}$	
retrograde	11478 May 25 16:31	9° $\mathcal{E}$ 49'29					
evening set	11478 Jun 12 14:59	3° $\mathcal{E}$ 41'09		superior conj	11480 Nov 08 19:35	27° $\mathbb{M}$ 35'03	1°22'15
inferior conj	11478 Jun 15 08:15	2° $\mathcal{E}$ 01'53	8°51'55	minimum elong	11480 Nov 08 13:58	27° $\mathbb{M}$ 17'40	1°22'44
minimum elong	11478 Jun 15 14:28	1° $\mathcal{E}$ 52'19	8°50'37	max. Earth dist.	11480 Nov 10 10:12	29° $\mathbb{M}$ 34'26	1.73005 AU
min. Earth dist.	11478 Jun 15 16:19	1° $\mathcal{E}$ 49'29	0.27183 AU		11480 Nov 10 18:28	0° $\mathcal{A}$	
morning rise	11478 Jun 18 13:56	0° $\mathcal{E}$ 03'58			11480 Dec 05 01:34	0° $\mathcal{B}$	
	11478 Jun 18 16:37	30° $\mathcal{R}\mathbb{I}$		evening rise	11480 Dec 15 15:08	13° $\mathcal{B}$ 00'49	
direct	11478 Jul 06 01:21	24° $\mathbb{I}$ 11'20			11480 Dec 29 10:46	0° $\approx$	
greatest brilliancy	11478 Jul 15 23:55	26° $\mathbb{I}$ 03'21	-4.9m	desc. node	11481 Jan 14 10:39	19° $\approx$ 36'41	
	11478 Jul 24 07:08	0° $\mathcal{E}$			11481 Jan 22 22:22	0° $\mathcal{H}$	
desc. node	11478 Jul 30 22:11	4° $\mathcal{E}$ 18'21			11481 Feb 16 12:05	0° $\mathcal{Y}$	
morning max el	11478 Aug 25 08:48	26° $\mathcal{E}$ 37'23	46°41'43		11481 Mar 13 03:52	0° $\mathcal{B}$	
	11478 Aug 28 17:27	0° $\mathcal{Q}$			11481 Apr 06 23:42	0° $\mathbb{I}$	
	11478 Sep 25 14:49	0° $\mathcal{M}$			11481 May 02 05:35	0° $\mathcal{E}$	
	11478 Oct 21 19:44	0° $\mathcal{L}$		asc. node	11481 May 07 07:51	5° $\mathcal{E}$ 56'42	
	11478 Nov 16 06:43	0° $\mathbb{M}$			11481 May 28 11:32	0° $\mathcal{Q}$	
asc. node	11478 Nov 20 19:46	5° $\mathbb{M}$ 24'58		evening max el	11481 Jun 17 15:00	21° $\mathcal{Q}$ 21'44	46°50'14
	11478 Dec 11 06:48	0° $\mathcal{A}$			11481 Jun 26 12:40	0° $\mathcal{M}$	
	11479 Jan 04 23:19	0° $\mathcal{B}$		greatest brilliancy	11481 Jul 27 06:05	21° $\mathcal{M}$ 48'18	-4.9m

retrograde	11481 Aug 06 22:35	23° $\mathbb{M}$ 55'35		max. Earth dist.	11484 Jan 16 17:40	3° $\approx$ 09'11	1.73121 AU
evening set	11481 Aug 21 14:17	19° $\mathbb{M}$ 41'59					
desc. node	11481 Aug 27 08:25	16° $\mathbb{M}$ 18'50		superior conj	11484 Jan 17 10:44	4° $\approx$ 01'52	0°56'40
inferior conj	11481 Aug 27 20:22	16° $\mathbb{M}$ 00'27	-0°07'41	minimum elong	11484 Jan 17 20:29	4° $\approx$ 31'56	0°56'55
minimum elong	11481 Aug 27 20:04	16° $\mathbb{M}$ 00'55	0°07'49		11484 Feb 07 11:39	0° $\mathbb{H}$	
transit middle	11481 Aug 27 20:04	16° $\mathbb{M}$ 00'55	0°07'49	desc. node	11484 Feb 11 23:50	5° $\mathbb{H}$ 34'04	
transit begin	11481 Aug 27 16:29	16° $\mathbb{M}$ 06'26		evening rise	11484 Feb 24 10:44	20° $\mathbb{H}$ 57'25	
transit end	11481 Aug 27 23:39	15° $\mathbb{M}$ 55'24			11484 Mar 02 18:18	0° $\mathbb{Y}$	
min. Earth dist.	11481 Aug 27 10:00	16° $\mathbb{M}$ 16'24	0.27341 AU		11484 Mar 26 23:50	0° $\mathbb{B}$	
morning rise	11481 Sep 03 02:31	12° $\mathbb{M}$ 20'35			11484 Apr 20 04:41	0° $\mathbb{I}$	
direct	11481 Sep 17 17:28	8° $\mathbb{M}$ 12'44			11484 May 14 10:50	0° $\mathbb{G}$	
greatest brilliancy	11481 Sep 27 09:31	9° $\mathbb{M}$ 55'47	-4.8m	asc. node	11484 Jun 03 18:48	24° $\mathbb{G}$ 58'00	
	11481 Oct 27 12:53	0° $\mathbb{L}$			11484 Jun 07 21:48	0° $\mathbb{Q}$	
morning max el	11481 Nov 05 20:12	8° $\mathbb{L}$ 37'40	45°56'44		11484 Jul 02 19:04	0° $\mathbb{M}$	
	11481 Nov 26 18:21	0° $\mathbb{M}$			11484 Jul 28 12:45	0° $\mathbb{L}$	
asc. node	11481 Dec 18 07:56	23° $\mathbb{M}$ 47'52			11484 Aug 25 05:58	0° $\mathbb{M}$	
	11481 Dec 23 18:45	0° $\mathbb{X}$		evening max el	11484 Aug 27 23:53	2° $\mathbb{M}$ 45'13	46°22'12
	11482 Jan 18 12:20	0° $\mathbb{Z}$		desc. node	11484 Sep 23 18:26	25° $\mathbb{M}$ 44'47	
	11482 Feb 12 13:20	0° $\approx$			11484 Sep 30 20:50	0° $\mathbb{X}$	
	11482 Mar 09 04:24	0° $\mathbb{H}$		greatest brilliancy	11484 Oct 06 01:39	2° $\mathbb{X}$ 20'50	-4.8m
	11482 Apr 02 12:52	0° $\mathbb{Y}$		retrograde	11484 Oct 16 20:50	4° $\mathbb{X}$ 29'44	
desc. node	11482 Apr 09 01:18	8° $\mathbb{Y}$ 04'37			11484 Nov 01 01:48	30° $\mathbb{R}$ $\mathbb{M}$	
	11482 Apr 26 16:18	0° $\mathbb{B}$		evening set	11484 Nov 03 11:35	28° $\mathbb{M}$ 36'53	
morning set	11482 May 05 08:26	10° $\mathbb{B}$ 49'48		inferior conj	11484 Nov 07 08:42	26° $\mathbb{M}$ 13'30	-8°18'57
	11482 May 20 15:55	0° $\mathbb{I}$		minimum elong	11484 Nov 07 02:29	26° $\mathbb{M}$ 23'13	8°17'48
	11482 Jun 13 13:21	0° $\mathbb{G}$		min. Earth dist.	11484 Nov 06 19:01	26° $\mathbb{M}$ 34'53	0.28806 AU
				morning rise	11484 Nov 10 17:31	24° $\mathbb{M}$ 08'43	
superior conj	11482 Jun 14 15:32	1° $\mathbb{G}$ 22'13	-1°24'06	direct	11484 Nov 28 16:24	18° $\mathbb{M}$ 04'37	
minimum elong	11482 Jun 14 21:59	1° $\mathbb{G}$ 42'30	1°24'44	greatest brilliancy	11484 Dec 08 15:22	19° $\mathbb{M}$ 52'10	-4.7m
max. Earth dist.	11482 Jun 14 08:18	0° $\mathbb{G}$ 59'32	1.71333 AU		11484 Dec 26 14:20	0° $\mathbb{X}$	
	11482 Jul 07 10:39	0° $\mathbb{Q}$		asc. node	11485 Jan 14 19:18	16° $\mathbb{X}$ 29'38	
evening rise	11482 Jul 25 00:13	22° $\mathbb{Q}$ 00'26		morning max el	11485 Jan 16 14:09	18° $\mathbb{X}$ 12'28	45°43'33
asc. node	11482 Jul 30 17:35	29° $\mathbb{Q}$ 09'52			11485 Jan 28 07:35	0° $\mathbb{Z}$	
	11482 Jul 31 09:37	0° $\mathbb{M}$			11485 Feb 24 17:08	0° $\approx$	
	11482 Aug 24 11:41	0° $\mathbb{L}$			11485 Mar 22 11:04	0° $\mathbb{H}$	
	11482 Sep 17 18:18	0° $\mathbb{M}$			11485 Apr 16 09:51	0° $\mathbb{Y}$	
	11482 Oct 12 07:52	0° $\mathbb{X}$		desc. node	11485 May 06 14:41	24° $\mathbb{Y}$ 43'34	
	11482 Nov 06 08:22	0° $\mathbb{Z}$			11485 May 10 21:23	0° $\mathbb{B}$	
desc. node	11482 Nov 19 12:52	15° $\mathbb{Z}$ 29'58			11485 Jun 04 01:46	0° $\mathbb{I}$	
	11482 Dec 02 02:00	0° $\approx$			11485 Jun 28 02:06	0° $\mathbb{G}$	
	11482 Dec 29 00:43	0° $\mathbb{H}$		morning set	11485 Jul 19 15:57	27° $\mathbb{G}$ 01'10	
evening max el	11483 Jan 20 17:11	23° $\mathbb{H}$ 18'15	45°59'20		11485 Jul 22 01:04	0° $\mathbb{Q}$	
	11483 Jan 27 20:03	0° $\mathbb{Y}$			11485 Aug 15 00:35	0° $\mathbb{M}$	
greatest brilliancy	11483 Mar 01 02:39	22° $\mathbb{Y}$ 12'34	-4.8m	asc. node	11485 Aug 27 07:04	15° $\mathbb{M}$ 19'15	
retrograde	11483 Mar 10 22:27	24° $\mathbb{Y}$ 00'03					
asc. node	11483 Mar 12 13:53	23° $\mathbb{Y}$ 56'49		superior conj	11485 Aug 28 00:11	16° $\mathbb{M}$ 12'41	0°01'46
evening set	11483 Mar 25 21:16	19° $\mathbb{Y}$ 38'39		minimum elong	11485 Aug 27 23:49	16° $\mathbb{M}$ 11'32	0°01'30
inferior conj	11483 Mar 31 20:27	16° $\mathbb{Y}$ 05'41	4°40'36	behind sun begin	11485 Aug 26 23:25	14° $\mathbb{M}$ 55'23	
minimum elong	11483 Mar 31 11:01	16° $\mathbb{Y}$ 20'20	4°37'52	behind sun end	11485 Aug 29 00:14	17° $\mathbb{M}$ 27'40	
min. Earth dist.	11483 Mar 31 22:13	16° $\mathbb{Y}$ 02'57	0.27609 AU	max. Earth dist.	11485 Aug 30 11:08	19° $\mathbb{M}$ 16'27	1.72033 AU
morning rise	11483 Apr 06 00:22	12° $\mathbb{Y}$ 58'17			11485 Sep 08 01:43	0° $\mathbb{L}$	
direct	11483 Apr 21 18:51	8° $\mathbb{Y}$ 05'01			11485 Oct 02 05:05	0° $\mathbb{M}$	
greatest brilliancy	11483 May 02 01:36	10° $\mathbb{Y}$ 03'25	-4.9m	evening rise	11485 Oct 05 04:17	3° $\mathbb{M}$ 40'37	
	11483 May 31 00:24	0° $\mathbb{B}$			11485 Oct 26 11:33	0° $\mathbb{X}$	
morning max el	11483 Jun 11 04:12	10° $\mathbb{B}$ 43'13	46°56'17		11485 Nov 19 22:35	0° $\mathbb{Z}$	
	11483 Jun 29 09:53	0° $\mathbb{I}$			11485 Dec 14 15:52	0° $\approx$	
desc. node	11483 Jul 02 13:24	3° $\mathbb{I}$ 28'39		desc. node	11485 Dec 17 00:16	2° $\approx$ 49'58	
	11483 Jul 25 17:56	0° $\mathbb{G}$			11486 Jan 08 16:53	0° $\mathbb{H}$	
	11483 Aug 20 00:52	0° $\mathbb{Q}$			11486 Feb 03 03:43	0° $\mathbb{Y}$	
	11483 Sep 13 21:26	0° $\mathbb{M}$			11486 Mar 01 06:38	0° $\mathbb{B}$	
	11483 Oct 08 13:13	0° $\mathbb{L}$			11486 Mar 28 23:25	0° $\mathbb{I}$	
asc. node	11483 Oct 23 08:32	18° $\mathbb{L}$ 05'26		evening max el	11486 Apr 03 03:03	5° $\mathbb{I}$ 12'14	46°34'56
	11483 Nov 02 01:58	0° $\mathbb{M}$		asc. node	11486 Apr 08 23:44	10° $\mathbb{I}$ 54'23	
	11483 Nov 26 12:13	0° $\mathbb{X}$			11486 May 02 07:53	0° $\mathbb{G}$	
morning set	11483 Dec 11 16:48	18° $\mathbb{X}$ 42'17		greatest brilliancy	11486 May 13 15:03	5° $\mathbb{G}$ 40'43	-4.9m
	11483 Dec 20 20:42	0° $\mathbb{Z}$		retrograde	11486 May 23 06:04	7° $\mathbb{G}$ 25'35	
	11484 Jan 14 04:21	0° $\approx$		evening set	11486 Jun 10 06:15	1° $\mathbb{G}$ 13'38	

	11486 Jun 12 06:39	30° $\text{R}\Pi$		minimum elong	11488 Nov 06 06:28	25° $\text{M}$ 08'05	1°21'40
inferior conj	11486 Jun 12 21:10	29° $\text{II}$ 37'43	8°58'11	max. Earth dist.	11488 Nov 08 04:20	27° $\text{M}$ 29'52	1.72984 AU
minimum elong	11486 Jun 13 02:34	29° $\text{II}$ 29'25	8°57'02		11488 Nov 10 04:54	0° $\text{X}$	
min. Earth dist.	11486 Jun 13 04:24	29° $\text{II}$ 26'36	0.27194 AU		11488 Dec 04 12:03	0° $\text{Z}$	
morning rise	11486 Jun 15 22:53	27° $\text{II}$ 45'42		evening rise	11488 Dec 13 07:51	10° $\text{Z}$ 52'09	
direct	11486 Jul 03 14:59	21° $\text{II}$ 47'11			11488 Dec 28 21:23	0° $\approx$	
greatest brilliancy	11486 Jul 13 11:45	23° $\text{II}$ 37'56	-4.9m	desc. node	11489 Jan 13 12:37	19° $\approx$ 09'39	
	11486 Jul 25 16:37	0° $\text{E}$			11489 Jan 22 09:16	0° $\text{H}$	
desc. node	11486 Jul 30 00:14	3° $\text{E}$ 01'52			11489 Feb 15 23:23	0° $\text{Y}$	
morning max el	11486 Aug 22 23:11	24° $\text{E}$ 17'55	46°42'58		11489 Mar 12 15:44	0° $\text{B}$	
	11486 Aug 28 14:19	0° $\Omega$			11489 Apr 06 12:26	0° $\text{II}$	
	11486 Sep 25 06:09	0° $\text{P}$			11489 May 01 19:48	0° $\text{E}$	
	11486 Oct 21 08:50	0° $\text{L}$		asc. node	11489 May 06 09:45	5° $\text{E}$ 19'43	
	11486 Nov 15 18:40	0° $\text{M}$			11489 May 28 04:55	0° $\Omega$	
asc. node	11486 Nov 19 21:34	4° $\text{M}$ 55'09		evening max el	11489 Jun 15 04:13	18° $\Omega$ 57'58	46°50'29
	11486 Dec 10 18:04	0° $\text{X}$			11489 Jun 26 16:16	0° $\text{P}$	
	11487 Jan 04 10:11	0° $\text{Z}$		greatest brilliancy	11489 Jul 24 22:04	19° $\text{P}$ 28'57	-4.9m
	11487 Jan 28 21:20	0° $\approx$		retrograde	11489 Aug 04 12:04	21° $\text{P}$ 34'17	
morning set	11487 Feb 18 16:47	25° $\approx$ 39'35		evening set	11489 Aug 19 04:54	17° $\text{P}$ 20'06	
	11487 Feb 22 05:05	0° $\text{H}$		inferior conj	11489 Aug 25 10:01	13° $\text{P}$ 40'11	0°15'42
desc. node	11487 Mar 11 13:23	21° $\text{H}$ 28'56		minimum elong	11489 Aug 25 10:37	13° $\text{P}$ 39'16	0°15'14
	11487 Mar 18 10:03	0° $\text{Y}$		transit middle	11489 Aug 25 10:37	13° $\text{P}$ 39'16	0°15'14
max. Earth dist.	11487 Mar 26 09:23	9° $\text{Y}$ 54'33	1.72195 AU	transit begin	11489 Aug 25 09:01	13° $\text{P}$ 41'43	
				transit end	11489 Aug 25 12:12	13° $\text{P}$ 36'48	
superior conj	11487 Mar 29 13:09	13° $\text{Y}$ 50'18	-0°41'57	min. Earth dist.	11489 Aug 25 01:07	13° $\text{P}$ 53'51	0.27299 AU
minimum elong	11487 Mar 29 03:55	13° $\text{Y}$ 21'34	0°41'39	desc. node	11489 Aug 26 10:25	13° $\text{P}$ 02'43	
	11487 Apr 11 12:18	0° $\text{B}$		morning rise	11489 Aug 31 16:52	9° $\text{P}$ 59'06	
	11487 May 05 12:14	0° $\text{II}$		direct	11489 Sep 15 06:13	5° $\text{P}$ 52'51	
evening rise	11487 May 07 23:50	3° $\text{II}$ 06'36		greatest brilliancy	11489 Sep 24 23:45	7° $\text{P}$ 36'50	-4.8m
	11487 May 29 11:11	0° $\text{E}$			11489 Oct 27 15:51	0° $\text{L}$	
	11487 Jun 22 11:16	0° $\Omega$		morning max el	11489 Nov 03 09:07	6° $\text{L}$ 18'17	45°58'08
asc. node	11487 Jul 02 06:44	12° $\Omega$ 12'51			11489 Nov 26 11:05	0° $\text{M}$	
	11487 Jul 16 14:58	0° $\text{P}$		asc. node	11489 Dec 17 10:00	23° $\text{M}$ 13'54	
	11487 Aug 10 01:08	0° $\text{L}$			11489 Dec 23 08:22	0° $\text{X}$	
	11487 Sep 03 22:15	0° $\text{M}$			11490 Jan 18 00:33	0° $\text{Z}$	
	11487 Sep 29 15:09	0° $\text{X}$			11490 Feb 12 00:51	0° $\approx$	
desc. node	11487 Oct 22 04:15	24° $\text{X}$ 53'26			11490 Mar 08 15:34	0° $\text{H}$	
	11487 Oct 27 01:04	0° $\text{Z}$			11490 Apr 01 23:50	0° $\text{Y}$	
evening max el	11487 Nov 08 02:29	12° $\text{Z}$ 05'55	45°52'20	desc. node	11490 Apr 08 03:06	7° $\text{Y}$ 36'18	
	11487 Nov 28 18:41	0° $\approx$			11490 Apr 26 03:10	0° $\text{B}$	
greatest brilliancy	11487 Dec 17 03:47	10° $\approx$ 22'35	-4.7m	morning set	11490 May 02 19:39	8° $\text{B}$ 20'58	
retrograde	11487 Dec 26 23:14	12° $\approx$ 06'46			11490 May 20 02:44	0° $\text{II}$	
evening set	11488 Jan 12 12:23	6° $\approx$ 53'01		max. Earth dist.	11490 Jun 11 12:26	28° $\text{II}$ 07'47	1.71339 AU
inferior conj	11488 Jan 17 07:37	3° $\approx$ 56'30	-5°49'14				
minimum elong	11488 Jan 17 17:42	3° $\approx$ 40'41	5°46'17	superior conj	11490 Jun 12 02:59	28° $\text{II}$ 53'29	-1°25'07
min. Earth dist.	11488 Jan 17 21:29	3° $\approx$ 34'43	0.28687 AU	minimum elong	11490 Jun 12 08:30	29° $\text{II}$ 10'50	1°25'47
morning rise	11488 Jan 22 22:46	0° $\approx$ 31'17			11490 Jun 13 00:09	0° $\text{E}$	
	11488 Jan 23 21:19	30° $\text{R}\text{Z}$			11490 Jul 06 21:29	0° $\Omega$	
direct	11488 Feb 07 17:31	25° $\text{Z}$ 42'13		evening rise	11490 Jul 22 12:04	19° $\Omega$ 33'21	
asc. node	11488 Feb 12 05:46	26° $\text{Z}$ 05'47		asc. node	11490 Jul 29 19:33	28° $\Omega$ 41'58	
greatest brilliancy	11488 Feb 18 15:46	27° $\text{Z}$ 54'10	-4.8m		11490 Jul 30 20:31	0° $\text{P}$	
	11488 Feb 23 07:42	0° $\approx$			11490 Aug 23 22:40	0° $\text{L}$	
morning max el	11488 Mar 28 10:35	27° $\approx$ 18'43	46°16'46		11490 Sep 17 05:27	0° $\text{M}$	
	11488 Mar 31 03:05	0° $\text{H}$			11490 Oct 11 19:24	0° $\text{X}$	
	11488 Apr 27 22:27	0° $\text{Y}$			11490 Nov 05 20:37	0° $\text{Z}$	
	11488 May 23 17:37	0° $\text{B}$		desc. node	11490 Nov 18 14:50	14° $\text{Z}$ 58'18	
desc. node	11488 Jun 03 03:29	12° $\text{B}$ 26'51			11490 Dec 01 15:41	0° $\approx$	
	11488 Jun 17 15:28	0° $\text{II}$			11490 Dec 28 17:33	0° $\text{H}$	
	11488 Jul 12 02:29	0° $\text{E}$		evening max el	11491 Jan 18 07:04	21° $\text{H}$ 01'02	45°58'22
	11488 Aug 05 08:34	0° $\Omega$			11491 Jan 27 23:09	0° $\text{Y}$	
	11488 Aug 29 13:11	0° $\text{P}$		greatest brilliancy	11491 Feb 26 16:14	19° $\text{Y}$ 53'08	-4.8m
	11488 Sep 22 17:54	0° $\text{L}$		retrograde	11491 Mar 08 12:28	21° $\text{Y}$ 41'06	
asc. node	11488 Sep 23 20:42	1° $\text{L}$ 23'02		asc. node	11491 Mar 11 15:51	21° $\text{Y}$ 29'10	
morning set	11488 Sep 29 23:06	8° $\text{L}$ 56'35		evening set	11491 Mar 23 09:22	17° $\text{Y}$ 21'34	
	11488 Oct 16 23:05	0° $\text{M}$		inferior conj	11491 Mar 29 10:34	13° $\text{Y}$ 46'05	4°20'23
				minimum elong	11491 Mar 29 01:37	13° $\text{Y}$ 59'57	4°17'46
superior conj	11488 Nov 06 12:42	25° $\text{M}$ 27'21	1°21'12	min. Earth dist.	11491 Mar 29 12:49	13° $\text{Y}$ 42'35	0.27636 AU

morning rise	11491 Apr 03 17:26	10° $\Upsilon$ 34'43			11493 Sep 07 12:36	0° $\underline{\Omega}$	
direct	11491 Apr 19 09:08	5° $\Upsilon$ 44'43			11493 Oct 01 15:59	0° $\mathbb{M}$	
greatest brilliancy	11491 Apr 29 17:15	7° $\Upsilon$ 44'36	-4.9m	evening rise	11493 Oct 02 20:07	1° $\mathbb{M}$ 27'11	
	11491 May 31 03:41	0° $\mathcal{B}$			11493 Oct 25 22:34	0° $\mathcal{A}$	
morning max el	11491 Jun 08 18:51	8° $\mathcal{B}$ 23'09	46°55'44		11493 Nov 19 09:49	0° $\mathcal{Z}$	
	11491 Jun 29 03:16	0° $\mathbb{I}$			11493 Dec 14 03:30	0° $\approx$	
desc. node	11491 Jul 01 15:29	2° $\mathbb{I}$ 47'20		desc. node	11493 Dec 16 02:19	2° $\approx$ 20'59	
	11491 Jul 25 08:18	0° $\mathcal{D}$			11494 Jan 08 05:11	0° $\mathcal{H}$	
	11491 Aug 19 13:47	0° $\Omega$			11494 Feb 02 17:11	0° $\Upsilon$	
	11491 Sep 13 09:30	0° $\mathbb{P}$			11494 Feb 28 22:24	0° $\mathcal{B}$	
	11491 Oct 08 00:43	0° $\underline{\Omega}$			11494 Mar 28 20:56	0° $\mathbb{I}$	
asc. node	11491 Oct 22 10:21	17° $\underline{\Omega}$ 36'40		evening max el	11494 Mar 31 17:23	2° $\mathbb{I}$ 51'33	46°33'33
	11491 Nov 01 13:02	0° $\mathbb{M}$		asc. node	11494 Apr 08 01:38	9° $\mathbb{I}$ 57'13	
	11491 Nov 25 23:01	0° $\mathcal{A}$			11494 May 03 22:38	0° $\mathcal{D}$	
morning set	11491 Dec 09 10:07	16° $\mathcal{A}$ 34'43		greatest brilliancy	11494 May 11 03:43	3° $\mathcal{D}$ 15'09	-4.9m
	11491 Dec 20 07:22	0° $\mathcal{Z}$		retrograde	11494 May 20 19:06	4° $\mathcal{D}$ 59'45	
	11492 Jan 13 15:00	0° $\approx$			11494 Jun 05 18:09	30° $\mathcal{R}$ $\mathbb{I}$	
max. Earth dist.	11492 Jan 14 15:06	1° $\approx$ 14'21	1.73137 AU	evening set	11494 Jun 07 21:00	28° $\mathbb{I}$ 45'11	
				inferior conj	11494 Jun 10 10:01	27° $\mathbb{I}$ 11'51	9°03'20
superior conj	11492 Jan 15 03:29	1° $\approx$ 52'34	0°59'08	minimum elong	11494 Jun 10 14:31	27° $\mathbb{I}$ 04'55	9°02'20
minimum elong	11492 Jan 15 13:17	2° $\approx$ 22'49	0°59'25	min. Earth dist.	11494 Jun 10 16:40	27° $\mathbb{I}$ 01'36	0.27210 AU
	11492 Feb 06 22:23	0° $\mathcal{H}$		morning rise	11494 Jun 13 08:04	25° $\mathbb{I}$ 25'04	
desc. node	11492 Feb 11 01:43	5° $\mathcal{H}$ 06'39		direct	11494 Jul 01 04:21	19° $\mathbb{I}$ 21'13	
evening rise	11492 Feb 22 02:19	18° $\mathcal{H}$ 43'47		greatest brilliancy	11494 Jul 10 24:00	21° $\mathbb{I}$ 10'52	-4.9m
	11492 Mar 02 05:11	0° $\Upsilon$			11494 Jul 26 17:30	0° $\mathcal{D}$	
	11492 Mar 26 10:58	0° $\mathcal{B}$		desc. node	11494 Jul 29 02:11	1° $\mathcal{D}$ 45'41	
	11492 Apr 19 16:08	0° $\mathbb{I}$		morning max el	11494 Aug 20 12:39	21° $\mathcal{D}$ 54'13	46°44'14
	11492 May 13 22:42	0° $\mathcal{D}$			11494 Aug 28 11:08	0° $\Omega$	
asc. node	11492 Jun 02 20:49	24° $\mathcal{D}$ 26'27			11494 Sep 24 21:49	0° $\mathbb{P}$	
	11492 Jun 07 10:18	0° $\Omega$			11494 Oct 20 22:19	0° $\underline{\Omega}$	
	11492 Jul 02 08:37	0° $\mathbb{P}$			11494 Nov 15 06:59	0° $\mathbb{M}$	
	11492 Jul 28 04:25	0° $\underline{\Omega}$		asc. node	11494 Nov 18 23:34	4° $\mathbb{M}$ 24'45	
	11492 Aug 25 03:22	0° $\mathbb{M}$			11494 Dec 10 05:41	0° $\mathcal{A}$	
evening max el	11492 Aug 25 15:29	0° $\mathbb{M}$ 30'07	46°23'37		11495 Jan 03 21:23	0° $\mathcal{Z}$	
desc. node	11492 Sep 22 20:20	24° $\mathbb{M}$ 27'37			11495 Jan 28 08:18	0° $\approx$	
	11492 Oct 03 09:29	0° $\mathcal{A}$		morning set	11495 Feb 16 08:40	23° $\approx$ 26'49	
greatest brilliancy	11492 Oct 03 16:06	0° $\mathcal{A}$ 06'21	-4.8m		11495 Feb 21 15:57	0° $\mathcal{H}$	
retrograde	11492 Oct 14 13:25	2° $\mathcal{A}$ 17'02		desc. node	11495 Mar 10 15:14	21° $\mathcal{H}$ 00'59	
	11492 Oct 25 05:11	30° $\mathcal{R}$ $\mathbb{M}$			11495 Mar 17 20:54	0° $\Upsilon$	
evening set	11492 Nov 01 00:08	26° $\mathbb{M}$ 28'50		max. Earth dist.	11495 Mar 23 22:08	7° $\Upsilon$ 31'13	1.72235 AU
min. Earth dist.	11492 Nov 04 09:19	24° $\mathbb{M}$ 24'23	0.28766 AU				
inferior conj	11492 Nov 05 00:20	24° $\mathbb{M}$ 00'56	-8°12'18	superior conj	11495 Mar 27 02:58	11° $\Upsilon$ 30'09	-0°38'42
minimum elong	11492 Nov 04 17:29	24° $\mathbb{M}$ 11'38	8°11'03	minimum elong	11495 Mar 26 18:19	11° $\Upsilon$ 03'16	0°38'24
morning rise	11492 Nov 08 11:01	21° $\mathbb{M}$ 53'39			11495 Apr 10 23:12	0° $\mathcal{B}$	
direct	11492 Nov 26 08:03	15° $\mathbb{M}$ 52'47			11495 May 04 23:14	0° $\mathbb{I}$	
greatest brilliancy	11492 Dec 06 05:20	17° $\mathbb{M}$ 39'19	-4.7m	evening rise	11495 May 05 12:19	0° $\mathbb{I}$ 40'55	
	11492 Dec 27 03:01	0° $\mathcal{A}$			11495 May 28 22:20	0° $\mathcal{D}$	
asc. node	11493 Jan 13 21:15	15° $\mathcal{A}$ 40'08			11495 Jun 21 22:38	0° $\Omega$	
morning max el	11493 Jan 14 06:09	16° $\mathcal{A}$ 01'36	45°43'14	asc. node	11495 Jul 01 08:41	11° $\Omega$ 43'15	
	11493 Jan 28 01:52	0° $\mathcal{Z}$			11495 Jul 16 02:38	0° $\mathbb{P}$	
	11493 Feb 24 07:28	0° $\approx$			11495 Aug 09 13:17	0° $\underline{\Omega}$	
	11493 Mar 21 23:50	0° $\mathcal{H}$			11495 Sep 03 11:15	0° $\mathbb{M}$	
	11493 Apr 15 21:51	0° $\Upsilon$			11495 Sep 29 05:50	0° $\mathcal{A}$	
desc. node	11493 May 05 16:37	24° $\Upsilon$ 13'37		desc. node	11495 Oct 21 06:18	24° $\mathcal{A}$ 11'56	
	11493 May 10 08:58	0° $\mathcal{B}$			11495 Oct 26 19:58	0° $\mathcal{Z}$	
	11493 Jun 03 13:07	0° $\mathbb{I}$		evening max el	11495 Nov 05 17:03	9° $\mathcal{Z}$ 51'15	45°52'51
	11493 Jun 27 13:18	0° $\mathcal{D}$			11495 Nov 29 11:30	0° $\approx$	
morning set	11493 Jul 17 04:24	24° $\mathcal{D}$ 35'13		greatest brilliancy	11495 Dec 14 19:48	8° $\approx$ 11'41	-4.7m
	11493 Jul 21 12:07	0° $\Omega$		retrograde	11495 Dec 24 14:10	9° $\approx$ 55'12	
	11493 Aug 14 11:32	0° $\mathbb{P}$		evening set	11496 Jan 10 07:01	4° $\approx$ 37'12	
				inferior conj	11496 Jan 14 23:30	1° $\approx$ 44'38	-6°04'16
superior conj	11493 Aug 25 13:40	13° $\mathbb{P}$ 50'55	-0°01'58	minimum elong	11496 Jan 15 09:39	1° $\approx$ 28'40	6°01'24
minimum elong	11493 Aug 25 14:12	13° $\mathbb{P}$ 52'34	0°02'13	min. Earth dist.	11496 Jan 15 13:23	1° $\approx$ 22'47	0.28719 AU
behind sun begin	11493 Aug 24 13:48	12° $\mathbb{P}$ 36'25			11496 Jan 17 18:31	30° $\mathcal{R}$ $\mathcal{Z}$	
behind sun end	11493 Aug 26 14:36	15° $\mathbb{P}$ 08'41		morning rise	11496 Jan 20 12:01	28° $\mathcal{Z}$ 22'44	
asc. node	11493 Aug 26 08:49	14° $\mathbb{P}$ 50'41		direct	11496 Feb 05 09:12	23° $\mathcal{Z}$ 30'03	
max. Earth dist.	11493 Aug 28 02:37	17° $\mathbb{P}$ 01'03	1.71996 AU	asc. node	11496 Feb 11 07:42	24° $\mathcal{Z}$ 10'17	

greatest brilliancy	11496 Feb 16 07:45	25° $\text{♄}$ 41'36	-4.8m			11498 Oct 11 07:02	0° $\text{♄}$	
	11496 Feb 24 22:49	0° $\text{♄}$				11498 Nov 05 09:04	0° $\text{♄}$	
morning max el	11496 Mar 26 00:50	25° $\text{♄}$ 00'46	46°15'18	desc. node		11498 Nov 17 16:51	14° $\text{♄}$ 26'17	
	11496 Mar 30 23:41	0° $\text{♄}$				11498 Dec 01 05:39	0° $\text{♄}$	
	11496 Apr 27 13:47	0° $\text{♄}$				11498 Dec 28 10:53	0° $\text{♄}$	
	11496 May 23 06:58	0° $\text{♄}$		evening max el		11499 Jan 15 21:49	18° $\text{♄}$ 45'54	45°57'37
desc. node	11496 Jun 02 05:34	11° $\text{♄}$ 54'25				11499 Jan 28 04:05	0° $\text{♄}$	
	11496 Jun 17 03:50	0° $\text{♄}$		greatest brilliancy		11499 Feb 24 05:27	17° $\text{♄}$ 33'34	-4.8m
	11496 Jul 11 14:17	0° $\text{♄}$		retrograde		11499 Mar 06 02:53	19° $\text{♄}$ 22'16	
	11496 Aug 04 20:00	0° $\text{♄}$		asc. node		11499 Mar 10 17:49	18° $\text{♄}$ 56'15	
	11496 Aug 29 00:23	0° $\text{♄}$		evening set		11499 Mar 20 21:46	15° $\text{♄}$ 04'28	
	11496 Sep 22 04:54	0° $\text{♄}$		inferior conj		11499 Mar 27 00:40	11° $\text{♄}$ 26'37	3°59'54
asc. node	11496 Sep 22 22:36	0° $\text{♄}$ 54'52		minimum elong		11499 Mar 26 16:15	11° $\text{♄}$ 39'38	3°57'24
morning set	11496 Sep 27 14:13	6° $\text{♄}$ 40'49		min. Earth dist.		11499 Mar 27 03:09	11° $\text{♄}$ 22'45	0.27660 AU
	11496 Oct 16 09:55	0° $\text{♄}$		morning rise		11499 Apr 01 10:22	8° $\text{♄}$ 11'31	
				direct		11499 Apr 16 23:51	3° $\text{♄}$ 24'46	
superior conj	11496 Nov 04 05:24	23° $\text{♄}$ 17'17	1°20'01	greatest brilliancy		11499 Apr 27 08:20	5° $\text{♄}$ 25'26	-4.9m
minimum elong	11496 Nov 03 22:36	22° $\text{♄}$ 56'15	1°20'27			11499 May 31 05:19	0° $\text{♄}$	
max. Earth dist.	11496 Nov 05 20:19	25° $\text{♄}$ 17'36	1.72958 AU	morning max el		11499 Jun 06 10:23	6° $\text{♄}$ 05'47	46°55'10
	11496 Nov 09 15:40	0° $\text{♄}$				11499 Jun 28 20:09	0° $\text{♄}$	
	11496 Dec 03 22:50	0° $\text{♄}$		desc. node		11499 Jun 30 17:20	2° $\text{♄}$ 06'17	
evening rise	11496 Dec 11 00:23	8° $\text{♄}$ 42'02				11499 Jul 24 22:19	0° $\text{♄}$	
	11496 Dec 28 08:19	0° $\text{♄}$				11499 Aug 19 02:25	0° $\text{♄}$	
desc. node	11497 Jan 12 14:30	18° $\text{♄}$ 41'31				11499 Sep 12 21:18	0° $\text{♄}$	
	11497 Jan 21 20:27	0° $\text{♄}$				11499 Oct 07 11:58	0° $\text{♄}$	
	11497 Feb 15 10:56	0° $\text{♄}$		asc. node		11499 Oct 21 12:20	17° $\text{♄}$ 08'55	
	11497 Mar 12 03:50	0° $\text{♄}$				11499 Oct 31 23:56	0° $\text{♄}$	
	11497 Apr 06 01:23	0° $\text{♄}$				11499 Nov 25 09:42	0° $\text{♄}$	
	11497 May 01 10:17	0° $\text{♄}$		morning set		11499 Dec 07 03:13	14° $\text{♄}$ 26'47	
asc. node	11497 May 05 11:52	4° $\text{♄}$ 42'52				11499 Dec 19 17:57	0° $\text{♄}$	
	11497 May 27 22:44	0° $\text{♄}$						
evening max el	11497 Jun 12 16:52	16° $\text{♄}$ 32'43	46°50'40	superior conj		11500 Jan 12 19:57	29° $\text{♄}$ 42'36	1°01'31
	11497 Jun 26 21:47	0° $\text{♄}$		minimum elong		11500 Jan 13 05:45	0° $\text{♄}$ 12'52	1°01'51
greatest brilliancy	11497 Jul 22 13:35	17° $\text{♄}$ 08'38	-4.9m	max. Earth dist.		11500 Jan 12 12:02	29° $\text{♄}$ 18'10	1.73150 AU
retrograde	11497 Aug 02 01:38	19° $\text{♄}$ 12'42				11500 Jan 13 01:35	0° $\text{♄}$	
evening set	11497 Aug 16 19:38	14° $\text{♄}$ 57'12				11500 Feb 06 09:01	0° $\text{♄}$	
inferior conj	11497 Aug 22 23:38	11° $\text{♄}$ 19'17	0°39'03	desc. node		11500 Feb 10 03:30	4° $\text{♄}$ 39'16	
minimum elong	11497 Aug 23 01:08	11° $\text{♄}$ 16'58	0°38'17	evening rise		11500 Feb 19 17:34	16° $\text{♄}$ 29'34	
min. Earth dist.	11497 Aug 22 16:12	11° $\text{♄}$ 30'42	0.27270 AU			11500 Mar 02 15:57	0° $\text{♄}$	
desc. node	11497 Aug 25 12:21	9° $\text{♄}$ 46'46				11500 Mar 26 21:56	0° $\text{♄}$	
morning rise	11497 Aug 29 07:03	7° $\text{♄}$ 37'24				11500 Apr 20 03:25	0° $\text{♄}$	
direct	11497 Sep 12 18:52	3° $\text{♄}$ 31'58				11500 May 14 10:25	0° $\text{♄}$	
greatest brilliancy	11497 Sep 22 14:17	5° $\text{♄}$ 17'23	-4.8m	asc. node		11500 Jun 02 22:45	23° $\text{♄}$ 55'11	
	11497 Oct 27 17:43	0° $\text{♄}$				11500 Jun 07 22:38	0° $\text{♄}$	
morning max el	11497 Oct 31 22:58	4° $\text{♄}$ 00'07	45°59'28			11500 Jul 02 22:01	0° $\text{♄}$	
	11497 Nov 26 03:48	0° $\text{♄}$				11500 Jul 28 20:00	0° $\text{♄}$	
asc. node	11497 Dec 16 11:58	22° $\text{♄}$ 39'05		evening max el		11500 Aug 24 07:48	28° $\text{♄}$ 17'49	46°25'00
	11497 Dec 22 22:05	0° $\text{♄}$				11500 Aug 26 01:10	0° $\text{♄}$	
	11498 Jan 17 12:53	0° $\text{♄}$		desc. node		11500 Sep 22 22:23	23° $\text{♄}$ 09'27	
	11498 Feb 11 12:28	0° $\text{♄}$		greatest brilliancy		11500 Oct 02 06:47	27° $\text{♄}$ 53'17	-4.8m
	11498 Mar 08 02:48	0° $\text{♄}$				11500 Oct 11 03:32	0° $\text{♄}$	
	11498 Apr 01 10:52	0° $\text{♄}$		retrograde		11500 Oct 13 05:54	0° $\text{♄}$ 05'11	
desc. node	11498 Apr 07 05:00	7° $\text{♄}$ 08'06				11500 Oct 15 07:42	30° $\text{♄}$ 00'00	
	11498 Apr 25 14:05	0° $\text{♄}$		evening set		11500 Oct 30 12:38	24° $\text{♄}$ 22'04	
morning set	11498 Apr 30 07:13	5° $\text{♄}$ 53'04		min. Earth dist.		11500 Nov 02 23:40	22° $\text{♄}$ 14'52	0.28728 AU
	11498 May 19 13:34	0° $\text{♄}$		inferior conj		11500 Nov 03 16:00	21° $\text{♄}$ 49'21	-8°04'57
max. Earth dist.	11498 Jun 08 20:03	25° $\text{♄}$ 27'00	1.71343 AU	minimum elong		11500 Nov 03 08:33	22° $\text{♄}$ 00'59	8°03'34
				morning rise		11500 Nov 07 04:44	19° $\text{♄}$ 39'07	
superior conj	11498 Jun 09 14:47	26° $\text{♄}$ 25'50	-1°25'57	direct		11500 Nov 24 23:59	13° $\text{♄}$ 42'04	
minimum elong	11498 Jun 09 19:22	26° $\text{♄}$ 40'13	1°26'38	greatest brilliancy		11500 Dec 04 18:57	15° $\text{♄}$ 26'54	-4.7m
	11498 Jun 12 10:58	0° $\text{♄}$				11500 Dec 28 12:02	0° $\text{♄}$	
	11498 Jul 06 08:18	0° $\text{♄}$		morning max el		11501 Jan 12 21:52	13° $\text{♄}$ 50'44	45°42'44
evening rise	11498 Jul 20 00:15	17° $\text{♄}$ 07'28		asc. node		11501 Jan 13 23:09	14° $\text{♄}$ 52'01	
asc. node	11498 Jul 28 21:21	28° $\text{♄}$ 13'40				11501 Jan 28 19:31	0° $\text{♄}$	
	11498 Jul 30 07:23	0° $\text{♄}$				11501 Feb 24 21:29	0° $\text{♄}$	
	11498 Aug 23 09:39	0° $\text{♄}$				11501 Mar 22 12:19	0° $\text{♄}$	
	11498 Sep 16 16:40	0° $\text{♄}$				11501 Apr 16 09:33	0° $\text{♄}$	



desc. node	11501 May 05 18:36	23° $\Upsilon$ 44'49		desc. node	11503 Oct 21 08:22	23° $\text{X}$ 31'20	
	11501 May 10 20:14	0° $\text{B}$			11503 Oct 27 14:53	0° $\text{B}$	
	11501 Jun 04 00:08	0° $\text{II}$		evening max el	11503 Nov 04 07:07	7° $\text{B}$ 36'45	45°53'29
	11501 Jun 28 00:09	0° $\text{B}$			11503 Dec 01 09:17	0° $\approx$	
	morning set	11501 Jul 15 16:53	22° $\text{B}$ 10'19	greatest brilliancy	11503 Dec 13 11:29	6° $\approx$ 02'00	-4.7m
	11501 Jul 21 22:51	0° $\Omega$	retrograde	11503 Dec 23 05:15	7° $\approx$ 45'30		
	11501 Aug 14 22:09	0° $\text{M}$	evening set	11504 Jan 09 01:39	2° $\approx$ 22'54		
				11504 Jan 12 23:11	30° $\text{R}$ $\text{B}$		
superior conj	11501 Aug 24 03:15	11° $\text{M}$ 30'25	-0°05'40	inferior conj	11504 Jan 13 15:28	29° $\text{B}$ 34'25	-6°18'38
minimum elong	11501 Aug 24 04:42	11° $\text{M}$ 34'57	0°05'54	minimum elong	11504 Jan 14 01:37	29° $\text{B}$ 18'27	6°15'51
behind sun begin	11501 Aug 23 05:32	10° $\text{M}$ 22'38		min. Earth dist.	11504 Jan 14 05:22	29° $\text{B}$ 12'33	0.28756 AU
behind sun end	11501 Aug 25 03:51	12° $\text{M}$ 47'14		morning rise	11504 Jan 19 01:15	26° $\text{B}$ 16'13	
asc. node	11501 Aug 26 10:45	14° $\text{M}$ 23'37		direct	11504 Feb 04 00:47	21° $\text{B}$ 19'23	
max. Earth dist.	11501 Aug 26 18:22	14° $\text{M}$ 47'24	1.71955 AU	asc. node	11504 Feb 11 09:42	22° $\text{B}$ 20'33	
	11501 Sep 07 23:09	0° $\text{B}$		greatest brilliancy	11504 Feb 15 00:13	23° $\text{B}$ 31'14	-4.8m
evening rise	11501 Oct 01 12:06	29° $\text{B}$ 15'17			11504 Feb 27 01:12	0° $\approx$	
	11501 Oct 02 02:32	0° $\text{M}$		morning max el	11504 Mar 24 15:27	22° $\approx$ 44'53	46°13'41
	11501 Oct 26 09:12	0° $\text{X}$			11504 Mar 31 19:14	0° $\text{K}$	
	11501 Nov 19 20:41	0° $\text{B}$			11504 Apr 28 04:38	0° $\Upsilon$	
	11501 Dec 14 14:48	0° $\approx$			11504 May 23 19:59	0° $\text{B}$	
desc. node	11501 Dec 16 04:11	1° $\approx$ 52'29		desc. node	11504 Jun 02 07:23	11° $\text{B}$ 22'06	
	11502 Jan 08 17:14	0° $\text{K}$			11504 Jun 17 15:53	0° $\text{II}$	
	11502 Feb 03 06:31	0° $\Upsilon$			11504 Jul 12 01:45	0° $\text{B}$	
	11502 Mar 01 14:10	0° $\text{B}$			11504 Aug 05 07:05	0° $\Omega$	
	11502 Mar 29 18:57	0° $\text{II}$			11504 Aug 29 11:11	0° $\text{M}$	
evening max el	11502 Mar 30 07:09	0° $\text{II}$ 30'18	46°32'16		11504 Sep 22 15:31	0° $\text{B}$	
asc. node	11502 Apr 08 03:46	9° $\text{II}$ 00'13		asc. node	11504 Sep 23 00:31	0° $\text{B}$ 27'55	
	11502 May 07 10:57	0° $\text{B}$		morning set	11504 Sep 26 05:17	4° $\text{B}$ 25'56	
greatest brilliancy	11502 May 09 17:01	0° $\text{B}$ 51'26	-4.9m		11504 Oct 16 20:24	0° $\text{M}$	
retrograde	11502 May 19 07:36	2° $\text{B}$ 35'11					
	11502 May 30 15:01	30° $\text{R}$ $\text{II}$		superior conj	11504 Nov 02 22:13	21° $\text{M}$ 08'40	1°18'44
evening set	11502 Jun 06 11:24	26° $\text{II}$ 18'48		minimum elong	11504 Nov 02 14:52	20° $\text{M}$ 45'55	1°19'06
inferior conj	11502 Jun 08 22:59	24° $\text{II}$ 47'28	9°07'35	max. Earth dist.	11504 Nov 04 11:39	23° $\text{M}$ 04'25	1.72934 AU
minimum elong	11502 Jun 09 02:31	24° $\text{II}$ 42'00	9°06'42		11504 Nov 10 02:04	0° $\text{X}$	
min. Earth dist.	11502 Jun 09 05:20	24° $\text{II}$ 37'39	0.27222 AU		11504 Dec 04 09:15	0° $\text{B}$	
morning rise	11502 Jun 11 17:39	23° $\text{II}$ 05'28		evening rise	11504 Dec 09 17:13	6° $\text{B}$ 33'58	
direct	11502 Jun 29 17:19	16° $\text{II}$ 56'39			11504 Dec 28 18:52	0° $\approx$	
greatest brilliancy	11502 Jul 09 12:51	18° $\text{II}$ 45'49	-4.9m	desc. node	11505 Jan 12 16:22	18° $\approx$ 14'31	
	11502 Jul 28 11:15	0° $\text{B}$			11505 Jan 22 07:17	0° $\text{K}$	
desc. node	11502 Jul 29 04:10	0° $\text{B}$ 33'08			11505 Feb 15 22:10	0° $\Upsilon$	
morning max el	11502 Aug 19 01:24	19° $\text{B}$ 29'51	46°45'29		11505 Mar 12 15:40	0° $\text{B}$	
	11502 Aug 29 06:48	0° $\Omega$			11505 Apr 06 14:10	0° $\text{II}$	
	11502 Sep 25 12:48	0° $\text{M}$			11505 May 02 00:45	0° $\text{B}$	
	11502 Oct 21 11:15	0° $\text{B}$		asc. node	11505 May 05 13:45	4° $\text{B}$ 05'34	
	11502 Nov 15 18:48	0° $\text{M}$			11505 May 28 16:52	0° $\Omega$	
asc. node	11502 Nov 19 01:30	3° $\text{M}$ 55'31		evening max el	11505 Jun 11 05:59	14° $\Omega$ 09'02	46°50'57
	11502 Dec 10 16:50	0° $\text{X}$			11505 Jun 28 05:27	0° $\text{M}$	
	11503 Jan 04 08:09	0° $\text{B}$		greatest brilliancy	11505 Jul 21 04:33	14° $\text{M}$ 47'50	-4.9m
	11503 Jan 28 18:53	0° $\approx$		retrograde	11505 Jul 31 15:34	16° $\text{M}$ 51'19	
morning set	11503 Feb 15 00:25	21° $\approx$ 14'41		evening set	11505 Aug 15 10:26	12° $\text{M}$ 34'01	
	11503 Feb 22 02:28	0° $\text{K}$		inferior conj	11505 Aug 21 13:05	8° $\text{M}$ 58'25	1°02'34
desc. node	11503 Mar 10 17:11	20° $\text{K}$ 34'21		minimum elong	11505 Aug 21 15:30	8° $\text{M}$ 54'43	1°01'28
	11503 Mar 18 07:27	0° $\Upsilon$		min. Earth dist.	11505 Aug 21 06:52	9° $\text{M}$ 07'57	0.27239 AU
max. Earth dist.	11503 Mar 22 10:15	5° $\Upsilon$ 06'56	1.72280 AU	desc. node	11505 Aug 25 14:25	6° $\text{M}$ 32'07	
				morning rise	11505 Aug 27 20:55	5° $\text{M}$ 16'17	
superior conj	11503 Mar 25 16:30	9° $\Upsilon$ 10'08	-0°35'22	direct	11505 Sep 11 07:38	1° $\text{M}$ 11'08	
minimum elong	11503 Mar 25 08:30	8° $\Upsilon$ 45'15	0°35'02	greatest brilliancy	11505 Sep 21 04:19	2° $\text{M}$ 57'53	-4.8m
	11503 Apr 11 09:49	0° $\text{B}$			11505 Oct 28 17:53	0° $\text{B}$	
evening rise	11503 May 04 00:27	28° $\text{B}$ 15'14		morning max el	11505 Oct 30 13:39	1° $\text{B}$ 44'49	46°00'54
	11503 May 05 09:56	0° $\text{II}$			11505 Nov 26 19:51	0° $\text{M}$	
	11503 May 29 09:08	0° $\text{B}$		asc. node	11505 Dec 16 13:47	22° $\text{M}$ 04'58	
	11503 Jun 22 09:37	0° $\Omega$			11505 Dec 23 11:22	0° $\text{X}$	
asc. node	11503 Jul 01 10:30	11° $\Omega$ 14'25			11506 Jan 18 00:52	0° $\text{B}$	
	11503 Jul 16 13:56	0° $\text{M}$			11506 Feb 11 23:46	0° $\approx$	
	11503 Aug 10 01:06	0° $\text{B}$			11506 Mar 08 13:45	0° $\text{K}$	
	11503 Sep 03 23:55	0° $\text{M}$			11506 Apr 01 21:38	0° $\Upsilon$	
	11503 Sep 29 20:14	0° $\text{X}$		desc. node	11506 Apr 07 06:57	6° $\Upsilon$ 40'50	

	11506 Apr 26 00:46	0°♄		inferior conj	11508 Nov 01 07:30	19°♌36'45	-7°56'50
morning set	11506 Apr 28 18:53	3°♄26'17		minimum elong	11508 Oct 31 23:31	19°♌49'13	7°55'19
	11506 May 20 00:14	0°♀		morning rise	11508 Nov 04 22:26	17°♌23'11	
max. Earth dist.	11506 Jun 07 05:12	22°♀51'22	1.71355 AU	direct	11508 Nov 22 15:34	11°♌30'29	
				greatest brilliancy	11508 Dec 02 08:35	13°♌13'37	-4.7m
superior conj	11506 Jun 08 02:13	23°♀57'24	-1°26'38		11508 Dec 28 18:39	0°♄	
minimum elong	11506 Jun 08 05:47	24°♀08'36	1°27'19	morning max el	11509 Jan 10 12:36	11°♄37'09	45°42'21
	11506 Jun 12 21:39	0°♄		asc. node	11509 Jan 13 01:15	14°♄04'50	
	11506 Jul 06 19:02	0°♌			11509 Jan 28 12:50	0°♄	
evening rise	11506 Jul 18 11:53	14°♌40'02			11509 Feb 24 11:25	0°♄	
asc. node	11506 Jul 28 23:15	27°♌45'59			11509 Mar 22 00:47	0°♄	
	11506 Jul 30 18:10	0°♍			11509 Apr 15 21:17	0°♍	
	11506 Aug 23 20:32	0°♌		desc. node	11509 May 04 20:24	23°♍15'10	
	11506 Sep 17 03:45	0°♌			11509 May 10 07:34	0°♄	
	11506 Oct 11 18:34	0°♄			11509 Jun 03 11:14	0°♀	
	11506 Nov 05 21:25	0°♄			11509 Jun 27 11:05	0°♄	
desc. node	11506 Nov 17 18:44	13°♄54'12		morning set	11509 Jul 13 05:32	19°♄45'42	
	11506 Dec 01 19:34	0°♄			11509 Jul 21 09:39	0°♌	
	11506 Dec 29 04:23	0°♄			11509 Aug 14 08:53	0°♍	
evening max el	11507 Jan 14 13:35	16°♄34'06	45°56'56				
	11507 Jan 29 10:47	0°♍		superior conj	11509 Aug 21 16:49	9°♍09'24	-0°09'20
greatest brilliancy	11507 Feb 22 18:57	15°♍15'39	-4.8m	minimum elong	11509 Aug 21 19:10	9°♍16'45	0°09'32
retrograde	11507 Mar 04 17:26	17°♍04'45		behind sun begin	11509 Aug 20 23:00	8°♍13'47	
asc. node	11507 Mar 10 19:53	16°♍19'26		behind sun end	11509 Aug 22 15:20	10°♍19'42	
evening set	11507 Mar 19 10:43	12°♍48'43		max. Earth dist.	11509 Aug 24 09:10	12°♍30'17	1.71920 AU
inferior conj	11507 Mar 25 15:00	9°♍08'37	3°39'11	asc. node	11509 Aug 25 12:42	13°♍56'12	
minimum elong	11507 Mar 25 07:12	9°♍20'43	3°36'50		11509 Sep 07 09:53	0°♌	
min. Earth dist.	11507 Mar 25 17:38	9°♍04'32	0.27684 AU	evening rise	11509 Sep 29 03:48	27°♌01'43	
morning rise	11507 Mar 31 03:23	5°♍49'51			11509 Oct 01 13:18	0°♌	
direct	11507 Apr 15 15:07	1°♍06'31			11509 Oct 25 20:05	0°♄	
greatest brilliancy	11507 Apr 25 23:14	3°♍07'13	-4.9m		11509 Nov 19 07:47	0°♄	
	11507 Jun 01 05:26	0°♄			11509 Dec 14 02:20	0°♄	
morning max el	11507 Jun 05 01:42	3°♄48'32	46°54'14	desc. node	11509 Dec 15 06:05	1°♄23'24	
	11507 Jun 29 12:37	0°♀			11510 Jan 08 05:32	0°♄	
desc. node	11507 Jun 30 19:19	1°♀26'15			11510 Feb 02 20:10	0°♍	
	11507 Jul 25 12:12	0°♄			11510 Mar 01 06:25	0°♄	
	11507 Aug 19 15:01	0°♌		evening max el	11510 Mar 27 20:08	28°♄06'38	46°30'57
	11507 Sep 13 09:07	0°♍			11510 Mar 29 18:09	0°♀	
	11507 Oct 07 23:13	0°♌		asc. node	11510 Apr 07 05:42	8°♀00'54	
asc. node	11507 Oct 21 14:12	16°♌40'50		greatest brilliancy	11510 May 07 06:44	28°♀27'51	-4.9m
	11507 Nov 01 10:48	0°♌			11510 May 13 19:38	0°♄	
	11507 Nov 25 20:21	0°♄		retrograde	11510 May 16 19:58	0°♄10'43	
morning set	11507 Dec 05 20:19	12°♄19'02			11510 May 19 19:21	30°♌♂	
	11507 Dec 20 04:30	0°♄		evening set	11510 Jun 04 01:24	23°♀53'09	
superior conj	11508 Jan 11 12:37	27°♄33'28	1°03'49	inferior conj	11510 Jun 06 12:07	22°♀23'07	9°10'45
minimum elong	11508 Jan 11 22:22	28°♄03'33	1°04'10	minimum elong	11510 Jun 06 14:41	22°♀19'08	9°09'57
max. Earth dist.	11508 Jan 11 08:09	27°♄19'40	1.73160 AU	min. Earth dist.	11510 Jun 06 18:27	22°♀13'19	0.27234 AU
	11508 Jan 13 12:07	0°♄		morning rise	11510 Jun 09 03:57	20°♀45'13	
	11508 Feb 06 19:37	0°♄		direct	11510 Jun 27 05:59	14°♀31'55	
desc. node	11508 Feb 10 05:30	4°♄12'39		greatest brilliancy	11510 Jul 07 02:25	16°♀21'25	-4.9m
evening rise	11508 Feb 18 09:05	14°♄16'19		desc. node	11510 Jul 28 06:12	29°♀22'29	
	11508 Mar 02 02:42	0°♍			11510 Jul 29 00:36	0°♄	
	11508 Mar 26 08:54	0°♄		morning max el	11510 Aug 16 13:57	17°♄04'23	46°46'45
	11508 Apr 19 14:41	0°♀			11510 Aug 29 02:03	0°♌	
	11508 May 13 22:07	0°♄			11510 Sep 25 03:48	0°♍	
asc. node	11508 Jun 02 00:38	23°♄23'48			11510 Oct 21 00:22	0°♌	
	11508 Jun 07 11:01	0°♌		asc. node	11510 Nov 15 06:52	0°♌	
	11508 Jul 02 11:35	0°♍			11510 Nov 18 03:19	3°♌25'04	
	11508 Jul 28 12:00	0°♌			11510 Dec 10 04:17	0°♄	
evening max el	11508 Aug 22 00:00	26°♌04'21	46°26'11		11511 Jan 03 19:13	0°♄	
	11508 Aug 26 00:11	0°♌		morning set	11511 Jan 28 05:44	0°♄	
desc. node	11508 Sep 22 00:25	21°♌47'43			11511 Feb 12 16:11	19°♄01'49	
greatest brilliancy	11508 Sep 29 22:07	25°♌39'51	-4.8m	desc. node	11511 Feb 21 13:15	0°♄	
retrograde	11508 Oct 10 21:48	27°♌51'56			11511 Mar 09 19:02	20°♄06'38	
evening set	11508 Oct 28 00:56	22°♌14'24			11511 Mar 17 18:15	0°♍	
min. Earth dist.	11508 Oct 31 14:14	20°♌03'44	0.28682 AU	max. Earth dist.	11511 Mar 20 00:57	2°♍49'53	1.72326 AU

superior conj	11511 Mar 23 06:07	6° $\Upsilon$ 49'42	-0°31'59			11513 Sep 01 04:47	30° $\kappa$ $\Omega$	
minimum elong	11511 Mar 22 22:48	6° $\Upsilon$ 26'55	0°31'38	direct		11513 Sep 08 20:48	28° $\Omega$ 48'39	
	11511 Apr 10 20:42	0° $\mathcal{B}$				11513 Sep 16 20:11	0° $\mathfrak{M}$	
evening rise	11511 May 01 12:52	25° $\mathcal{B}$ 49'41		greatest brilliancy		11513 Sep 18 17:40	0° $\mathfrak{M}$ 36'09	-4.8m
	11511 May 04 20:55	0° $\Pi$		morning max el		11513 Oct 28 04:47	29° $\mathfrak{M}$ 29'34	46°02'25
	11511 May 28 20:16	0° $\mathfrak{E}$				11513 Oct 28 17:23	0° $\underline{\mathfrak{A}}$	
	11511 Jun 21 20:56	0° $\Omega$				11513 Nov 26 11:57	0° $\mathfrak{M}$	
asc. node	11511 Jun 30 12:29	10° $\Omega$ 45'11		asc. node		11513 Dec 15 15:52	21° $\mathfrak{M}$ 30'53	
	11511 Jul 16 01:33	0° $\mathfrak{M}$				11513 Dec 23 00:51	0° $\mathcal{X}$	
	11511 Aug 09 13:12	0° $\underline{\mathfrak{A}}$				11514 Jan 17 13:08	0° $\mathcal{Z}$	
	11511 Sep 03 12:55	0° $\mathfrak{M}$				11514 Feb 11 11:24	0° $\approx$	
	11511 Sep 29 11:08	0° $\mathcal{X}$				11514 Mar 08 01:03	0° $\mathcal{H}$	
desc. node	11511 Oct 20 10:13	22° $\mathcal{X}$ 48'35				11514 Apr 01 08:45	0° $\Upsilon$	
	11511 Oct 27 10:48	0° $\mathcal{Z}$		desc. node		11514 Apr 06 08:46	6° $\Upsilon$ 12'03	
evening max el	11511 Nov 01 21:18	5° $\mathcal{Z}$ 21'27	45°54'04			11514 Apr 25 11:46	0° $\mathcal{B}$	
	11511 Dec 02 16:35	0° $\approx$		morning set		11514 Apr 26 06:31	0° $\mathcal{B}$ 58'31	
greatest brilliancy	11511 Dec 11 02:35	3° $\approx$ 50'26	-4.7m			11514 May 19 11:12	0° $\Pi$	
retrograde	11511 Dec 20 20:49	5° $\approx$ 34'43		max. Earth dist.		11514 Jun 04 15:45	20° $\Pi$ 19'16	1.71365 AU
evening set	11512 Jan 06 20:19	0° $\approx$ 07'14						
	11512 Jan 07 01:14	30° $\kappa$ $\mathcal{Z}$		superior conj		11514 Jun 05 13:36	21° $\Pi$ 27'53	-1°27'08
inferior conj	11512 Jan 11 07:24	27° $\mathcal{Z}$ 22'58	-6°32'28	minimum elong		11514 Jun 05 16:06	21° $\Pi$ 35'44	1°27'50
minimum elong	11512 Jan 11 17:31	27° $\mathcal{Z}$ 07'04	6°29'46			11514 Jun 12 08:38	0° $\mathfrak{E}$	
min. Earth dist.	11512 Jan 11 21:07	27° $\mathcal{Z}$ 01'25	0.28791 AU			11514 Jul 06 06:03	0° $\Omega$	
morning rise	11512 Jan 16 14:25	24° $\mathcal{Z}$ 08'53		evening rise		11514 Jul 15 23:28	12° $\Omega$ 11'29	
direct	11512 Feb 01 16:27	19° $\mathcal{Z}$ 07'28		asc. node		11514 Jul 28 01:13	27° $\Omega$ 17'29	
asc. node	11512 Feb 10 11:43	20° $\mathcal{Z}$ 33'41				11514 Jul 30 05:16	0° $\mathfrak{M}$	
greatest brilliancy	11512 Feb 12 16:41	21° $\mathcal{Z}$ 19'54	-4.8m			11514 Aug 23 07:44	0° $\underline{\mathfrak{A}}$	
	11512 Feb 27 20:57	0° $\approx$				11514 Sep 16 15:12	0° $\mathfrak{M}$	
morning max el	11512 Mar 22 06:55	20° $\approx$ 30'11	46°12'11			11514 Oct 11 06:26	0° $\mathcal{X}$	
	11512 Mar 31 14:36	0° $\mathcal{H}$				11514 Nov 05 10:07	0° $\mathcal{Z}$	
	11512 Apr 27 19:35	0° $\Upsilon$		desc. node		11514 Nov 16 20:43	13° $\mathcal{Z}$ 21'31	
	11512 May 23 09:11	0° $\mathcal{B}$				11514 Dec 01 09:56	0° $\approx$	
desc. node	11512 Jun 01 09:18	10° $\mathcal{B}$ 49'17				11514 Dec 28 22:37	0° $\mathcal{H}$	
	11512 Jun 17 04:10	0° $\Pi$		evening max el		11515 Jan 12 05:21	14° $\mathcal{H}$ 21'24	45°56'03
	11512 Jul 11 13:30	0° $\mathfrak{E}$				11515 Jan 29 20:39	0° $\Upsilon$	
	11512 Aug 04 18:28	0° $\Omega$		greatest brilliancy		11515 Feb 20 08:46	12° $\Upsilon$ 56'59	-4.8m
	11512 Aug 28 22:18	0° $\mathfrak{M}$		retrograde		11515 Mar 02 07:27	14° $\Upsilon$ 45'45	
asc. node	11512 Sep 22 02:20	29° $\mathfrak{M}$ 59'42		asc. node		11515 Mar 09 21:49	13° $\Upsilon$ 35'47	
	11512 Sep 22 02:26	0° $\underline{\mathfrak{A}}$		evening set		11515 Mar 16 23:47	10° $\Upsilon$ 31'28	
morning set	11512 Sep 23 20:33	2° $\underline{\mathfrak{A}}$ 10'40		inferior conj		11515 Mar 23 05:14	6° $\Upsilon$ 49'20	3°17'55
	11512 Oct 16 07:11	0° $\mathfrak{M}$		minimum elong		11515 Mar 22 22:05	7° $\Upsilon$ 00'25	3°15'47
				min. Earth dist.		11515 Mar 23 08:15	6° $\Upsilon$ 44'39	0.27709 AU
superior conj	11512 Oct 31 15:08	18° $\mathfrak{M}$ 59'16	1°17'19	morning rise		11515 Mar 28 20:06	3° $\Upsilon$ 26'53	
minimum elong	11512 Oct 31 07:16	18° $\mathfrak{M}$ 34'57	1°17'39			11515 Apr 05 13:10	30° $\kappa$ $\mathcal{H}$	
max. Earth dist.	11512 Nov 02 04:55	20° $\mathfrak{M}$ 56'11	1.72913 AU	direct		11515 Apr 13 06:16	28° $\mathcal{H}$ 47'03	
	11512 Nov 09 12:48	0° $\mathcal{X}$				11515 Apr 21 05:11	0° $\Upsilon$	
	11512 Dec 03 20:02	0° $\mathcal{Z}$		greatest brilliancy		11515 Apr 23 14:11	0° $\Upsilon$ 47'40	-4.9m
evening rise	11512 Dec 07 10:09	4° $\mathcal{Z}$ 25'05				11515 Jun 01 04:53	0° $\mathcal{B}$	
	11512 Dec 28 05:50	0° $\approx$		morning max el		11515 Jun 02 16:00	1° $\mathcal{B}$ 27'44	46°53'19
desc. node	11513 Jan 11 18:22	17° $\approx$ 46'41				11515 Jun 29 05:05	0° $\Pi$	
	11513 Jan 21 18:31	0° $\mathcal{H}$		desc. node		11515 Jun 29 21:23	0° $\Pi$ 46'02	
	11513 Feb 15 09:49	0° $\Upsilon$				11515 Jul 25 02:11	0° $\mathfrak{E}$	
	11513 Mar 12 03:55	0° $\mathcal{B}$				11515 Aug 19 03:45	0° $\Omega$	
	11513 Apr 06 03:24	0° $\Pi$				11515 Sep 12 21:05	0° $\mathfrak{M}$	
	11513 May 01 15:46	0° $\mathfrak{E}$				11515 Oct 07 10:40	0° $\underline{\mathfrak{A}}$	
asc. node	11513 May 04 15:40	3° $\mathfrak{E}$ 27'01		asc. node		11515 Oct 20 16:02	16° $\underline{\mathfrak{A}}$ 11'56	
	11513 May 28 11:53	0° $\Omega$				11515 Oct 31 21:54	0° $\mathfrak{M}$	
evening max el	11513 Jun 08 19:58	11° $\Omega$ 46'31	46°51'06			11515 Nov 25 07:13	0° $\mathcal{X}$	
	11513 Jun 28 16:35	0° $\mathfrak{M}$		morning set		11515 Dec 03 13:28	10° $\mathcal{X}$ 10'41	
greatest brilliancy	11513 Jul 18 18:52	12° $\mathfrak{M}$ 24'54	-4.9m			11515 Dec 19 15:14	0° $\mathcal{Z}$	
retrograde	11513 Jul 29 05:47	14° $\mathfrak{M}$ 28'17						
evening set	11513 Aug 13 01:18	10° $\mathfrak{M}$ 08'59		superior conj		11516 Jan 09 05:28	25° $\mathcal{Z}$ 24'21	1°06'01
inferior conj	11513 Aug 19 02:22	6° $\mathfrak{M}$ 35'47	1°26'10	minimum elong		11516 Jan 09 15:05	25° $\mathcal{Z}$ 54'01	1°06'23
minimum elong	11513 Aug 19 05:40	6° $\mathfrak{M}$ 30'43	1°24'45	max. Earth dist.		11516 Jan 09 03:09	25° $\mathcal{Z}$ 17'11	1.73167 AU
min. Earth dist.	11513 Aug 18 21:06	6° $\mathfrak{M}$ 43'50	0.27210 AU			11516 Jan 12 22:50	0° $\approx$	
desc. node	11513 Aug 24 16:25	3° $\mathfrak{M}$ 18'05				11516 Feb 06 06:24	0° $\mathcal{H}$	
morning rise	11513 Aug 25 10:25	2° $\mathfrak{M}$ 53'49		desc. node		11516 Feb 09 07:21	3° $\mathcal{H}$ 45'00	

evening rise	11516 Feb 16 00:38	12° $\Upsilon$ 02'38			11518 Aug 28 20:50	0° $\Omega$	
	11516 Mar 01 13:39	0° $\Upsilon$			11518 Sep 24 18:34	0° $\mathfrak{M}$	
	11516 Mar 25 20:06	0° $\mathcal{B}$			11518 Oct 20 13:18	0° $\underline{\mathcal{B}}$	
	11516 Apr 19 02:13	0° $\Pi$			11518 Nov 14 18:47	0° $\mathfrak{M}$	
	11516 May 13 10:06	0° $\mathcal{E}$		asc. node	11518 Nov 17 05:19	2° $\mathfrak{M}$ 55'37	
asc. node	11516 Jun 01 02:39	22° $\mathcal{E}$ 51'57			11518 Dec 09 15:34	0° $\mathcal{A}$	
	11516 Jun 06 23:42	0° $\Omega$			11519 Jan 03 06:08	0° $\mathcal{B}$	
	11516 Jul 02 01:28	0° $\mathfrak{M}$			11519 Jan 27 16:26	0° $\approx$	
	11516 Jul 28 04:28	0° $\underline{\mathcal{B}}$		morning set	11519 Feb 10 08:09	16° $\approx$ 49'59	
evening max el	11516 Aug 19 15:14	23° $\underline{\mathcal{B}}$ 47'48	46°27'23		11519 Feb 20 23:52	0° $\mathcal{H}$	
	11516 Aug 26 00:29	0° $\mathfrak{M}$		desc. node	11519 Mar 08 20:51	19° $\mathcal{H}$ 39'20	
desc. node	11516 Sep 21 02:19	20° $\mathfrak{M}$ 22'25			11519 Mar 17 04:53	0° $\Upsilon$	
greatest brilliancy	11516 Sep 27 13:52	23° $\mathfrak{M}$ 26'08	-4.8m	max. Earth dist.	11519 Mar 17 18:01	0° $\Upsilon$ 40'49	1.72367 AU
retrograde	11516 Oct 08 13:05	25° $\mathfrak{M}$ 37'55					
evening set	11516 Oct 25 13:02	20° $\mathfrak{M}$ 06'09		superior conj	11519 Mar 20 20:01	4° $\Upsilon$ 30'41	-0°28'32
min. Earth dist.	11516 Oct 29 05:08	17° $\mathfrak{M}$ 51'20	0.28634 AU	minimum elong	11519 Mar 20 13:24	4° $\Upsilon$ 10'08	0°28'13
inferior conj	11516 Oct 29 22:55	17° $\mathfrak{M}$ 23'31	-7°47'52		11519 Apr 10 07:22	0° $\mathcal{B}$	
minimum elong	11516 Oct 29 14:26	17° $\mathfrak{M}$ 36'46	7°46'14	evening rise	11519 Apr 29 01:41	23° $\mathcal{B}$ 26'06	
morning rise	11516 Nov 02 16:10	15° $\mathfrak{M}$ 06'20			11519 May 04 07:41	0° $\Pi$	
direct	11516 Nov 20 06:40	9° $\mathfrak{M}$ 18'10			11519 May 28 07:11	0° $\mathcal{E}$	
greatest brilliancy	11516 Nov 29 22:47	11° $\mathfrak{M}$ 00'15	-4.7m		11519 Jun 21 08:06	0° $\Omega$	
	11516 Dec 28 23:21	0° $\mathcal{A}$		asc. node	11519 Jun 29 14:25	10° $\Omega$ 16'15	
morning max el	11517 Jan 08 02:26	9° $\mathcal{A}$ 21'00	45°42'11		11519 Jul 15 13:03	0° $\mathfrak{M}$	
asc. node	11517 Jan 12 03:10	13° $\mathcal{A}$ 17'43			11519 Aug 09 01:13	0° $\underline{\mathcal{B}}$	
	11517 Jan 28 05:52	0° $\mathcal{B}$			11519 Sep 03 01:52	0° $\mathfrak{M}$	
	11517 Feb 24 01:14	0° $\approx$			11519 Sep 29 02:03	0° $\mathcal{A}$	
	11517 Mar 21 13:14	0° $\mathcal{H}$		desc. node	11519 Oct 19 12:16	22° $\mathcal{A}$ 06'21	
	11517 Apr 15 09:03	0° $\Upsilon$			11519 Oct 27 07:08	0° $\mathcal{B}$	
desc. node	11517 May 03 22:20	22° $\Upsilon$ 45'43		evening max el	11519 Oct 30 11:53	3° $\mathcal{B}$ 07'47	45°54'52
	11517 May 09 18:58	0° $\mathcal{B}$			11519 Dec 04 14:35	0° $\approx$	
	11517 Jun 02 22:25	0° $\Pi$		greatest brilliancy	11519 Dec 08 17:00	1° $\approx$ 38'48	-4.7m
	11517 Jun 26 22:07	0° $\mathcal{E}$		retrograde	11519 Dec 18 12:46	3° $\approx$ 24'29	
morning set	11517 Jul 10 17:41	17° $\mathcal{E}$ 19'02			11519 Dec 31 17:07	30° $\mathfrak{R}$ $\mathcal{B}$	
	11517 Jul 20 20:33	0° $\Omega$		evening set	11520 Jan 04 14:53	27° $\mathcal{B}$ 52'01	
	11517 Aug 13 19:42	0° $\mathfrak{M}$		inferior conj	11520 Jan 08 23:15	25° $\mathcal{B}$ 11'54	-6°45'40
				minimum elong	11520 Jan 09 09:16	24° $\mathcal{B}$ 56'11	6°43'04
superior conj	11517 Aug 19 06:00	6° $\mathfrak{M}$ 47'03	-0°13'02	min. Earth dist.	11520 Jan 09 12:22	24° $\mathcal{B}$ 51'19	0.28825 AU
minimum elong	11517 Aug 19 09:16	6° $\mathfrak{M}$ 57'14	0°13'13	morning rise	11520 Jan 14 03:22	22° $\mathcal{B}$ 02'16	
behind sun begin	11517 Aug 18 18:51	6° $\mathfrak{M}$ 12'12		direct	11520 Jan 30 08:30	16° $\mathcal{B}$ 56'00	
behind sun end	11517 Aug 19 23:41	7° $\mathfrak{M}$ 42'16		asc. node	11520 Feb 09 13:40	18° $\mathcal{B}$ 51'05	
max. Earth dist.	11517 Aug 21 21:53	10° $\mathfrak{M}$ 06'30	1.71880 AU	greatest brilliancy	11520 Feb 10 08:38	19° $\mathcal{B}$ 08'40	-4.8m
asc. node	11517 Aug 24 14:27	13° $\mathfrak{M}$ 28'00			11520 Feb 28 11:15	0° $\approx$	
	11517 Sep 06 20:39	0° $\underline{\mathcal{B}}$		morning max el	11520 Mar 19 23:07	18° $\approx$ 18'17	46°10'47
evening rise	11517 Sep 26 19:14	24° $\underline{\mathcal{B}}$ 47'16			11520 Mar 31 09:06	0° $\mathcal{H}$	
	11517 Oct 01 00:06	0° $\mathfrak{M}$			11520 Apr 27 10:01	0° $\Upsilon$	
	11517 Oct 25 06:59	0° $\mathcal{A}$			11520 May 22 21:56	0° $\mathcal{B}$	
	11517 Nov 18 18:56	0° $\mathcal{B}$		desc. node	11520 May 31 11:20	10° $\mathcal{B}$ 17'59	
	11517 Dec 13 13:56	0° $\approx$			11520 Jun 16 16:03	0° $\Pi$	
desc. node	11517 Dec 14 08:06	0° $\approx$ 54'34			11520 Jul 11 00:52	0° $\mathcal{E}$	
	11518 Jan 07 17:54	0° $\mathcal{H}$			11520 Aug 04 05:31	0° $\Omega$	
	11518 Feb 02 09:53	0° $\Upsilon$			11520 Aug 28 09:08	0° $\mathfrak{M}$	
	11518 Feb 28 22:52	0° $\mathcal{B}$		morning set	11520 Sep 21 11:29	29° $\mathfrak{M}$ 55'04	
evening max el	11518 Mar 25 08:19	25° $\mathcal{B}$ 41'18	46°29'36	asc. node	11520 Sep 21 04:14	29° $\mathfrak{M}$ 32'34	
	11518 Mar 29 18:20	0° $\Pi$			11520 Sep 21 13:04	0° $\underline{\mathcal{B}}$	
asc. node	11518 Apr 06 07:38	7° $\Pi$ 00'19			11520 Oct 15 17:40	0° $\mathfrak{M}$	
greatest brilliancy	11518 May 04 19:56	26° $\Pi$ 03'36	-4.9m				
retrograde	11518 May 14 08:20	27° $\Pi$ 46'13		superior conj	11520 Oct 29 07:35	16° $\mathfrak{M}$ 49'16	1°15'46
evening set	11518 Jun 01 14:36	21° $\Pi$ 28'04		minimum elong	11520 Oct 28 23:16	16° $\mathfrak{M}$ 23'32	1°16'04
inferior conj	11518 Jun 04 01:06	19° $\Pi$ 58'25	9°12'45	max. Earth dist.	11520 Oct 30 23:19	18° $\mathfrak{M}$ 52'16	1.72888 AU
minimum elong	11518 Jun 04 02:42	19° $\Pi$ 55'58	9°12'00		11520 Nov 08 23:13	0° $\mathcal{A}$	
min. Earth dist.	11518 Jun 04 07:24	19° $\Pi$ 48'43	0.27252 AU		11520 Dec 03 06:31	0° $\mathcal{B}$	
morning rise	11518 Jun 06 14:45	18° $\Pi$ 23'50		evening rise	11520 Dec 05 02:47	2° $\mathcal{B}$ 16'20	
direct	11518 Jun 24 18:31	12° $\Pi$ 06'32			11520 Dec 27 16:28	0° $\approx$	
greatest brilliancy	11518 Jul 04 16:11	13° $\Pi$ 56'59	-4.9m	desc. node	11521 Jan 10 20:11	17° $\approx$ 19'22	
desc. node	11518 Jul 27 08:09	28° $\Pi$ 13'19			11521 Jan 21 05:26	0° $\mathcal{H}$	
	11518 Jul 29 10:38	0° $\mathcal{E}$			11521 Feb 14 21:10	0° $\Upsilon$	
morning max el	11518 Aug 14 02:55	14° $\mathcal{E}$ 39'42	46°48'02		11521 Mar 11 15:53	0° $\mathcal{B}$	

	11521 Apr 05 16:22	0°♈		11523 Sep 12 08:33	0°♏	
	11521 May 01 06:32	0°♊		11523 Oct 06 21:39	0°♎	
asc. node	11521 May 03 17:47	2°♊49'56	asc. node	11523 Oct 19 18:00	15°♎44'51	
	11521 May 28 06:54	0°♏		11523 Oct 31 08:33	0°♎	
evening max el	11521 Jun 06 10:40	9°♏27'22 46°51'15		11523 Nov 24 17:41	0°♏	
	11521 Jun 29 06:36	0°♏	morning set	11523 Dec 01 06:36	8°♏03'31	
greatest brilliancy	11521 Jul 16 08:58	10°♏03'29 -4.9m		11523 Dec 19 01:37	0°♏	
retrograde	11521 Jul 26 20:07	12°♏06'43				
evening set	11521 Aug 10 16:28	7°♏45'25	superior conj	11524 Jan 06 22:21	23°♏16'28 1°08'05	
inferior conj	11521 Aug 16 15:41	4°♏14'36 1°49'31	minimum elong	11524 Jan 07 07:48	23°♏45'35 1°08'30	
minimum elong	11521 Aug 16 19:53	4°♏08'12 1°47'48	max. Earth dist.	11524 Jan 06 20:00	23°♏09'13 1.73175 AU	
min. Earth dist.	11521 Aug 16 11:08	4°♏21'34 0.27185 AU		11524 Jan 12 09:12	0°♏	
morning rise	11521 Aug 22 23:44	0°♏33'00		11524 Feb 05 16:51	0°♏	
desc. node	11521 Aug 23 18:20	0°♏08'50	desc. node	11524 Feb 08 09:10	3°♏18'18	
	11521 Aug 24 01:19	30°♏♏	evening rise	11524 Feb 13 16:08	9°♏49'55	
direct	11521 Sep 06 10:33	26°♏27'49		11524 Mar 01 00:16	0°♏	
greatest brilliancy	11521 Sep 16 06:42	28°♏15'18 -4.8m		11524 Mar 25 06:59	0°♏	
	11521 Sep 20 13:00	0°♏		11524 Apr 18 13:27	0°♏	
morning max el	11521 Oct 25 19:50	27°♏15'09 46°03'44		11524 May 12 21:49	0°♏	
	11521 Oct 28 15:25	0°♏	asc. node	11524 May 31 04:34	22°♏20'36	
	11521 Nov 26 03:24	0°♎		11524 Jun 06 12:08	0°♏	
asc. node	11521 Dec 14 17:46	20°♎57'33		11524 Jul 01 15:11	0°♏	
	11521 Dec 22 13:51	0°♏		11524 Jul 27 20:52	0°♏	
	11522 Jan 17 00:57	0°♏	evening max el	11524 Aug 17 05:43	21°♏30'32 46°28'42	
	11522 Feb 10 22:36	0°♏		11524 Aug 26 01:28	0°♎	
	11522 Mar 07 11:55	0°♏	desc. node	11524 Sep 20 04:22	18°♎56'01	
	11522 Mar 31 19:27	0°♏	greatest brilliancy	11524 Sep 25 05:53	21°♎14'12 -4.8m	
desc. node	11522 Apr 05 10:39	5°♏44'43	retrograde	11524 Oct 06 04:26	23°♎25'53	
morning set	11522 Apr 23 18:18	28°♏32'25	evening set	11524 Oct 23 01:20	17°♎59'38	
	11522 Apr 24 22:23	0°♏	min. Earth dist.	11524 Oct 26 20:26	15°♎40'34 0.28587 AU	
	11522 May 18 21:46	0°♏	inferior conj	11524 Oct 27 14:34	15°♎12'11 -7°38'19	
max. Earth dist.	11522 Jun 01 23:59	17°♏41'11 1.71370 AU	minimum elong	11524 Oct 27 05:38	15°♎26'10 7°36'31	
			morning rise	11524 Oct 31 10:14	12°♎51'20	
superior conj	11522 Jun 03 01:15	19°♏00'29 -1°27'27	direct	11524 Nov 17 21:33	7°♎07'37	
minimum elong	11522 Jun 03 02:41	19°♏05'00 1°28'10	greatest brilliancy	11524 Nov 27 13:46	8°♎49'18 -4.7m	
	11522 Jun 11 19:12	0°♏		11524 Dec 29 01:45	0°♏	
	11522 Jul 05 16:38	0°♏	morning max el	11525 Jan 05 16:16	7°♏05'52 45°41'58	
evening rise	11522 Jul 13 11:16	9°♏44'58	asc. node	11525 Jan 11 05:05	12°♏32'16	
asc. node	11522 Jul 27 03:00	26°♏49'57		11525 Jan 27 22:13	0°♏	
	11522 Jul 29 15:53	0°♏		11525 Feb 23 14:40	0°♏	
	11522 Aug 22 18:28	0°♏		11525 Mar 21 01:23	0°♏	
	11522 Sep 16 02:11	0°♎		11525 Apr 14 20:33	0°♏	
	11522 Oct 10 17:55	0°♏	desc. node	11525 May 03 00:18	22°♏17'12	
	11522 Nov 04 22:29	0°♏		11525 May 09 06:07	0°♏	
desc. node	11522 Nov 15 22:43	12°♏49'49		11525 Jun 02 09:21	0°♏	
	11522 Dec 01 00:03	0°♏		11525 Jun 26 08:55	0°♏	
	11522 Dec 28 16:53	0°♏	morning set	11525 Jul 08 05:41	14°♏52'30	
evening max el	11523 Jan 09 20:30	12°♏08'27 45°55'15		11525 Jul 20 07:15	0°♏	
	11523 Jan 30 09:12	0°♏		11525 Aug 13 06:19	0°♏	
greatest brilliancy	11523 Feb 17 23:18	10°♏40'41 -4.8m				
retrograde	11523 Feb 27 21:09	12°♏28'29	superior conj	11525 Aug 16 19:14	4°♏25'18 -0°16'42	
asc. node	11523 Mar 08 23:48	10°♏48'34	minimum elong	11525 Aug 16 23:23	4°♏38'17 0°16'52	
evening set	11523 Mar 14 13:13	8°♏15'39	max. Earth dist.	11525 Aug 19 07:54	7°♏34'46 1.71839 AU	
inferior conj	11523 Mar 20 19:37	4°♏31'53 2°56'33	asc. node	11525 Aug 23 16:24	13°♏00'57	
minimum elong	11523 Mar 20 13:10	4°♏41'55 2°54'38		11525 Sep 06 07:14	0°♏	
min. Earth dist.	11523 Mar 20 23:18	4°♏26'08 0.27734 AU	evening rise	11525 Sep 24 10:47	22°♏33'47	
morning rise	11523 Mar 26 12:47	1°♏05'49		11525 Sep 30 10:41	0°♎	
	11523 Mar 28 14:15	30°♏♏		11525 Oct 24 17:40	0°♏	
direct	11523 Apr 10 21:02	26°♏29'18		11525 Nov 18 05:52	0°♏	
greatest brilliancy	11523 Apr 21 05:42	28°♏30'11 -4.9m	desc. node	11525 Dec 13 09:58	0°♏25'52	
	11523 Apr 24 18:21	0°♏		11525 Dec 13 01:21	0°♏	
morning max el	11523 May 31 05:31	29°♏06'07 46°52'24		11526 Jan 07 06:10	0°♏	
	11523 Jun 01 02:54	0°♏		11526 Feb 01 23:37	0°♏	
desc. node	11523 Jun 28 23:12	0°♏06'39		11526 Feb 28 15:34	0°♏	
	11523 Jun 28 20:51	0°♏	evening max el	11526 Mar 22 20:54	23°♏17'24 46°28'21	
	11523 Jul 24 15:38	0°♏		11526 Mar 29 19:40	0°♏	
	11523 Aug 18 15:59	0°♏	asc. node	11526 Apr 05 09:45	5°♏58'50	

greatest brilliancy	11526 May 02 08:33	23° $\Pi$ 39'03	-4.9m	superior conj	11528 Oct 26 23:57	14° $\mathbb{M}$ 38'08	1°14'07
retrograde	11526 May 11 21:13	25° $\Pi$ 22'16		minimum elong	11528 Oct 26 15:14	14° $\mathbb{M}$ 11'07	1°14'21
evening set	11526 May 30 03:10	19° $\Pi$ 04'11		max. Earth dist.	11528 Oct 28 18:29	16° $\mathbb{M}$ 49'46	1.72861 AU
inferior conj	11526 Jun 01 14:07	17° $\Pi$ 34'01	9°13'41		11528 Nov 08 09:56	0° $\mathcal{Z}$	
minimum elong	11526 Jun 01 14:42	17° $\Pi$ 33'07	9°12'59	evening rise	11528 Dec 02 19:33	0° $\mathcal{Z}$ 07'02	
min. Earth dist.	11526 Jun 01 19:58	17° $\Pi$ 25'00	0.27271 AU		11528 Dec 02 17:16	0° $\mathcal{Z}$	
morning rise	11526 Jun 04 02:12	16° $\Pi$ 01'55			11528 Dec 27 03:23	0° $\approx$	
direct	11526 Jun 22 07:25	9° $\Pi$ 41'27		desc. node	11529 Jan 09 22:06	16° $\approx$ 51'29	
greatest brilliancy	11526 Jul 02 05:30	11° $\Pi$ 32'30	-4.9m		11529 Jan 20 16:37	0° $\mathcal{H}$	
desc. node	11526 Jul 26 10:08	27° $\Pi$ 06'20			11529 Feb 14 08:46	0° $\mathcal{Y}$	
	11526 Jul 29 17:52	0° $\mathcal{G}$			11529 Mar 11 04:09	0° $\mathcal{B}$	
morning max el	11526 Aug 11 16:51	12° $\mathcal{G}$ 17'36	46°49'15		11529 Apr 05 05:43	0° $\Pi$	
	11526 Aug 28 15:04	0° $\Omega$			11529 Apr 30 21:55	0° $\mathcal{G}$	
	11526 Sep 24 09:07	0° $\mathbb{M}$		asc. node	11529 May 02 19:39	2° $\mathcal{G}$ 10'41	
	11526 Oct 20 02:07	0° $\mathcal{L}$			11529 May 28 03:00	0° $\Omega$	
	11526 Nov 14 06:35	0° $\mathbb{M}$		evening max el	11529 Jun 04 01:33	7° $\Omega$ 07'15	46°51'10
asc. node	11526 Nov 16 07:13	2° $\mathbb{M}$ 26'04			11529 Jun 30 02:26	0° $\mathbb{M}$	
	11526 Dec 09 02:45	0° $\mathcal{Z}$		greatest brilliancy	11529 Jul 13 23:30	7° $\mathbb{M}$ 40'51	-4.9m
	11527 Jan 02 16:57	0° $\mathcal{Z}$		retrograde	11529 Jul 24 10:04	9° $\mathbb{M}$ 43'02	
	11527 Jan 27 03:05	0° $\approx$		evening set	11529 Aug 08 07:43	5° $\mathbb{M}$ 19'53	
morning set	11527 Feb 08 00:25	14° $\approx$ 39'18		inferior conj	11529 Aug 14 04:53	1° $\mathbb{M}$ 51'33	2°12'50
	11527 Feb 20 10:29	0° $\mathcal{H}$		minimum elong	11529 Aug 14 09:55	1° $\mathbb{M}$ 43'50	2°10'50
desc. node	11527 Mar 07 22:50	19° $\mathcal{H}$ 12'30		min. Earth dist.	11529 Aug 14 01:07	1° $\mathbb{M}$ 57'17	0.27159 AU
max. Earth dist.	11527 Mar 15 12:00	28° $\mathcal{H}$ 34'29	1.72411 AU		11529 Aug 17 06:43	30° $\mathcal{R}$ $\Omega$	
	11527 Mar 16 15:33	0° $\mathcal{Y}$		morning rise	11529 Aug 20 12:37	28° $\Omega$ 10'26	
				desc. node	11529 Aug 22 20:25	27° $\Omega$ 00'57	
superior conj	11527 Mar 18 09:58	2° $\mathcal{Y}$ 11'45	-0°25'05	direct	11529 Sep 04 00:10	24° $\Omega$ 05'17	
minimum elong	11527 Mar 18 04:07	1° $\mathcal{Y}$ 53'35	0°24'45	greatest brilliancy	11529 Sep 13 19:30	25° $\Omega$ 52'23	-4.8m
	11527 Apr 09 18:07	0° $\mathcal{B}$			11529 Sep 22 14:44	0° $\mathbb{M}$	
evening rise	11527 Apr 26 14:26	21° $\mathcal{B}$ 02'09		morning max el	11529 Oct 23 09:50	24° $\mathbb{M}$ 56'45	46°05'04
	11527 May 03 18:33	0° $\Pi$			11529 Oct 28 13:07	0° $\mathcal{L}$	
	11527 May 27 18:12	0° $\mathcal{G}$			11529 Nov 25 19:02	0° $\mathbb{M}$	
	11527 Jun 20 19:21	0° $\Omega$		asc. node	11529 Dec 13 19:37	20° $\mathbb{M}$ 23'01	
asc. node	11527 Jun 28 16:14	9° $\Omega$ 46'44			11529 Dec 22 03:10	0° $\mathcal{Z}$	
	11527 Jul 15 00:39	0° $\mathbb{M}$			11530 Jan 16 13:07	0° $\mathcal{Z}$	
	11527 Aug 08 13:24	0° $\mathcal{L}$			11530 Feb 10 10:09	0° $\approx$	
	11527 Sep 02 15:03	0° $\mathbb{M}$			11530 Mar 06 23:07	0° $\mathcal{H}$	
	11527 Sep 28 17:20	0° $\mathcal{Z}$			11530 Mar 31 06:27	0° $\mathcal{Y}$	
desc. node	11527 Oct 18 14:19	21° $\mathcal{Z}$ 23'08		desc. node	11530 Apr 04 12:36	5° $\mathcal{Y}$ 16'40	
	11527 Oct 27 04:19	0° $\mathcal{Z}$		morning set	11530 Apr 21 06:26	26° $\mathcal{Y}$ 06'31	
evening max el	11527 Oct 28 03:33	0° $\mathcal{Z}$ 56'25	45°55'47		11530 Apr 24 09:19	0° $\mathcal{B}$	
greatest brilliancy	11527 Dec 06 07:20	29° $\mathcal{Z}$ 27'18	-4.7m		11530 May 18 08:43	0° $\Pi$	
	11527 Dec 08 00:24	0° $\approx$		max. Earth dist.	11530 May 30 05:50	14° $\Pi$ 54'26	1.71386 AU
retrograde	11527 Dec 16 05:04	1° $\approx$ 14'26					
	11527 Dec 24 02:03	30° $\mathcal{R}$ $\mathcal{Z}$		superior conj	11530 May 31 12:58	16° $\Pi$ 32'10	-1°27'36
evening set	11528 Jan 02 09:38	25° $\mathcal{Z}$ 37'17		minimum elong	11530 May 31 13:21	16° $\Pi$ 33'21	1°28'19
inferior conj	11528 Jan 06 15:14	23° $\mathcal{Z}$ 01'08	-6°58'11		11530 Jun 11 06:12	0° $\mathcal{G}$	
minimum elong	11528 Jan 07 01:06	22° $\mathcal{Z}$ 45'40	6°55'42		11530 Jul 05 03:40	0° $\Omega$	
min. Earth dist.	11528 Jan 07 03:20	22° $\mathcal{Z}$ 42'10	0.28855 AU	evening rise	11530 Jul 10 22:37	7° $\Omega$ 15'30	
morning rise	11528 Jan 11 16:23	19° $\mathcal{Z}$ 56'04		asc. node	11530 Jul 26 04:57	26° $\Omega$ 21'23	
direct	11528 Jan 28 01:10	14° $\mathcal{Z}$ 45'09			11530 Jul 29 02:59	0° $\mathbb{M}$	
greatest brilliancy	11528 Feb 07 23:55	16° $\mathcal{Z}$ 57'01	-4.8m		11530 Aug 22 05:43	0° $\mathcal{L}$	
asc. node	11528 Feb 08 15:41	17° $\mathcal{Z}$ 12'26			11530 Sep 15 13:43	0° $\mathbb{M}$	
	11528 Feb 28 21:49	0° $\approx$			11530 Oct 10 05:58	0° $\mathcal{Z}$	
morning max el	11528 Mar 17 15:34	16° $\approx$ 06'55	46°09'09		11530 Nov 04 11:28	0° $\mathcal{Z}$	
	11528 Mar 31 03:16	0° $\mathcal{H}$		desc. node	11530 Nov 15 00:36	12° $\mathcal{Z}$ 16'03	
	11528 Apr 27 00:29	0° $\mathcal{Y}$			11530 Nov 30 14:52	0° $\approx$	
	11528 May 22 10:51	0° $\mathcal{B}$			11530 Dec 28 12:14	0° $\mathcal{H}$	
desc. node	11528 May 30 13:10	9° $\mathcal{B}$ 45'23		evening max el	11531 Jan 07 10:52	9° $\mathcal{H}$ 52'14	45°54'33
	11528 Jun 16 04:09	0° $\Pi$			11531 Jan 31 02:50	0° $\mathcal{Y}$	
	11528 Jul 10 12:29	0° $\mathcal{G}$		greatest brilliancy	11531 Feb 15 14:24	8° $\mathcal{Y}$ 24'00	-4.8m
	11528 Aug 03 16:49	0° $\Omega$		retrograde	11531 Feb 25 10:46	10° $\mathcal{Y}$ 10'37	
	11528 Aug 27 20:11	0° $\mathbb{M}$		asc. node	11531 Mar 08 01:52	7° $\mathcal{Y}$ 55'37	
morning set	11528 Sep 19 02:15	27° $\mathbb{M}$ 38'12		evening set	11531 Mar 12 02:58	5° $\mathcal{Y}$ 58'42	
asc. node	11528 Sep 20 06:09	29° $\mathbb{M}$ 04'47		inferior conj	11531 Mar 18 10:09	2° $\mathcal{Y}$ 13'55	2°35'04
	11528 Sep 20 23:57	0° $\mathcal{L}$		minimum elong	11531 Mar 18 04:25	2° $\mathcal{Y}$ 22'50	2°33'21
	11528 Oct 15 04:26	0° $\mathbb{M}$		min. Earth dist.	11531 Mar 18 14:47	2° $\mathcal{Y}$ 06'41	0.27758 AU

	11531 Mar 22 01:13	30° $\mathbb{R}$ $\mathbb{H}$			11533 Sep 29 21:36	0° $\mathbb{M}$	
morning rise	11531 Mar 24 05:26	28° $\mathbb{H}$ 44'28			11533 Oct 24 04:42	0° $\mathbb{A}$	
direct	11531 Apr 08 11:22	24° $\mathbb{H}$ 10'54			11533 Nov 17 17:11	0° $\mathbb{Z}$	
greatest brilliancy	11531 Apr 18 21:45	26° $\mathbb{H}$ 12'45 -4.8m	desc. node		11533 Dec 12 11:54	29° $\mathbb{Z}$ 56'11	
	11531 Apr 26 17:59	0° $\mathbb{Y}$			11533 Dec 12 13:10	0° $\mathbb{A}$	
morning max el	11531 May 28 18:26	26° $\mathbb{Y}$ 42'07 46°51'26			11534 Jan 06 18:51	0° $\mathbb{H}$	
	11531 Jun 01 00:26	0° $\mathbb{B}$			11534 Feb 01 13:52	0° $\mathbb{Y}$	
desc. node	11531 Jun 28 01:13	29° $\mathbb{B}$ 27'11			11534 Feb 28 08:58	0° $\mathbb{B}$	
	11531 Jun 28 12:44	0° $\mathbb{I}$	evening max el		11534 Mar 20 10:23	20° $\mathbb{B}$ 55'03 46°27'10	
	11531 Jul 24 05:23	0° $\mathbb{G}$			11534 Mar 29 22:51	0° $\mathbb{I}$	
	11531 Aug 18 04:38	0° $\mathbb{O}$	asc. node		11534 Apr 04 11:41	4° $\mathbb{I}$ 54'29	
	11531 Sep 11 20:30	0° $\mathbb{N}$	greatest brilliancy		11534 Apr 29 20:48	21° $\mathbb{I}$ 13'32 -4.9m	
	11531 Oct 06 09:06	0° $\mathbb{L}$	retrograde		11534 May 09 10:45	22° $\mathbb{I}$ 57'51	
asc. node	11531 Oct 18 19:51	15° $\mathbb{L}$ 15'56	evening set		11534 May 27 15:15	16° $\mathbb{I}$ 40'39	
	11531 Oct 30 19:41	0° $\mathbb{M}$	inferior conj		11534 May 30 03:11	15° $\mathbb{I}$ 09'07 9°13'45	
	11531 Nov 24 04:36	0° $\mathbb{A}$	minimum elong		11534 May 30 02:46	15° $\mathbb{I}$ 09'44 9°13'03	
morning set	11531 Nov 28 23:22	5° $\mathbb{A}$ 53'42	min. Earth dist.		11534 May 30 08:16	15° $\mathbb{I}$ 01'17 0.27283 AU	
	11531 Dec 18 12:27	0° $\mathbb{Z}$	morning rise		11534 Jun 01 14:16	13° $\mathbb{I}$ 38'41	
			direct		11534 Jun 19 20:49	7° $\mathbb{I}$ 16'12	
superior conj	11532 Jan 04 15:07	21° $\mathbb{Z}$ 06'47 1°10'05	greatest brilliancy		11534 Jun 29 18:12	9° $\mathbb{I}$ 07'08 -4.9m	
minimum elong	11532 Jan 05 00:20	21° $\mathbb{Z}$ 35'13 1°10'32	desc. node		11534 Jul 25 12:10	26° $\mathbb{I}$ 01'04	
max. Earth dist.	11532 Jan 04 12:21	20° $\mathbb{Z}$ 58'16 1.73184 AU			11534 Jul 29 22:58	0° $\mathbb{G}$	
	11532 Jan 11 20:02	0° $\mathbb{A}$	morning max el		11534 Aug 09 07:30	9° $\mathbb{G}$ 57'18 46°50'27	
	11532 Feb 05 03:46	0° $\mathbb{H}$			11534 Aug 28 08:53	0° $\mathbb{O}$	
desc. node	11532 Feb 07 11:10	2° $\mathbb{H}$ 50'46			11534 Sep 23 23:33	0° $\mathbb{N}$	
evening rise	11532 Feb 11 07:41	7° $\mathbb{H}$ 35'59			11534 Oct 19 14:56	0° $\mathbb{L}$	
	11532 Feb 29 11:21	0° $\mathbb{Y}$			11534 Nov 13 18:29	0° $\mathbb{M}$	
	11532 Mar 24 18:17	0° $\mathbb{B}$	asc. node		11534 Nov 15 09:02	1° $\mathbb{M}$ 55'55	
	11532 Apr 18 01:04	0° $\mathbb{I}$			11534 Dec 08 14:06	0° $\mathbb{A}$	
	11532 May 12 09:52	0° $\mathbb{G}$			11535 Jan 02 03:57	0° $\mathbb{Z}$	
asc. node	11532 May 30 06:28	21° $\mathbb{G}$ 48'13			11535 Jan 26 13:56	0° $\mathbb{A}$	
	11532 Jun 06 00:56	0° $\mathbb{O}$	morning set		11535 Feb 05 16:33	12° $\mathbb{A}$ 27'40	
	11532 Jul 01 05:22	0° $\mathbb{N}$			11535 Feb 19 21:17	0° $\mathbb{H}$	
	11532 Jul 27 14:04	0° $\mathbb{L}$	desc. node		11535 Mar 07 00:40	18° $\mathbb{H}$ 44'45	
evening max el	11532 Aug 14 19:30	19° $\mathbb{L}$ 09'52 46°29'49	max. Earth dist.		11535 Mar 13 05:29	26° $\mathbb{H}$ 26'13 1.72450 AU	
	11532 Aug 26 04:38	0° $\mathbb{M}$					
desc. node	11532 Sep 19 06:25	17° $\mathbb{M}$ 24'23	superior conj		11535 Mar 15 23:45	29° $\mathbb{H}$ 51'56 -0°21'34	
greatest brilliancy	11532 Sep 22 21:26	18° $\mathbb{M}$ 59'22 -4.8m	minimum elong		11535 Mar 15 18:42	29° $\mathbb{H}$ 36'14 0°21'14	
retrograde	11532 Oct 03 19:43	21° $\mathbb{M}$ 11'27			11535 Mar 16 02:21	0° $\mathbb{Y}$	
evening set	11532 Oct 20 13:16	15° $\mathbb{M}$ 50'28			11535 Apr 09 05:00	0° $\mathbb{B}$	
min. Earth dist.	11532 Oct 24 11:31	13° $\mathbb{M}$ 27'08 0.28541 AU	evening rise		11535 Apr 24 03:10	18° $\mathbb{B}$ 37'43	
inferior conj	11532 Oct 25 05:56	12° $\mathbb{M}$ 58'22 -7°27'51			11535 May 03 05:32	0° $\mathbb{I}$	
minimum elong	11532 Oct 24 20:36	13° $\mathbb{M}$ 12'57 7°25'54			11535 May 27 05:20	0° $\mathbb{G}$	
morning rise	11532 Oct 29 04:13	10° $\mathbb{M}$ 33'44			11535 Jun 20 06:42	0° $\mathbb{O}$	
direct	11532 Nov 15 11:52	4° $\mathbb{M}$ 54'22	asc. node		11535 Jun 27 18:14	9° $\mathbb{O}$ 17'32	
greatest brilliancy	11532 Nov 25 04:47	6° $\mathbb{M}$ 36'20 -4.7m			11535 Jul 14 12:19	0° $\mathbb{N}$	
	11532 Dec 29 03:23	0° $\mathbb{A}$			11535 Aug 08 01:35	0° $\mathbb{L}$	
morning max el	11533 Jan 03 06:20	4° $\mathbb{A}$ 49'46 45°41'55			11535 Sep 02 04:15	0° $\mathbb{M}$	
asc. node	11533 Jan 10 07:11	11° $\mathbb{A}$ 46'30			11535 Sep 28 08:46	0° $\mathbb{A}$	
	11533 Jan 27 14:44	0° $\mathbb{Z}$	desc. node		11535 Oct 17 16:11	20° $\mathbb{A}$ 38'56	
	11533 Feb 23 04:24	0° $\mathbb{A}$	evening max el		11535 Oct 25 19:43	28° $\mathbb{A}$ 46'16 45°56'27	
	11533 Mar 20 13:52	0° $\mathbb{H}$			11535 Oct 27 02:19	0° $\mathbb{Z}$	
	11533 Apr 14 08:23	0° $\mathbb{Y}$	greatest brilliancy		11535 Dec 03 21:56	27° $\mathbb{Z}$ 15'56 -4.7m	
desc. node	11533 May 02 02:05	21° $\mathbb{Y}$ 47'06	retrograde		11535 Dec 13 21:13	29° $\mathbb{Z}$ 03'53	
	11533 May 08 17:34	0° $\mathbb{B}$	evening set		11535 Dec 31 04:20	23° $\mathbb{Z}$ 22'24	
	11533 Jun 01 20:34	0° $\mathbb{I}$	inferior conj		11536 Jan 04 07:11	20° $\mathbb{Z}$ 50'01 -7°10'08	
	11533 Jun 25 19:56	0° $\mathbb{G}$	minimum elong		11536 Jan 04 16:49	20° $\mathbb{Z}$ 34'54 7°07'46	
morning set	11533 Jul 05 18:01	12° $\mathbb{G}$ 26'15	min. Earth dist.		11536 Jan 04 18:12	20° $\mathbb{Z}$ 32'44 0.28885 AU	
	11533 Jul 19 18:10	0° $\mathbb{O}$	morning rise		11536 Jan 09 05:13	17° $\mathbb{Z}$ 49'32	
	11533 Aug 12 17:11	0° $\mathbb{N}$	direct		11536 Jan 25 17:53	12° $\mathbb{Z}$ 34'10	
			greatest brilliancy		11536 Feb 05 14:41	14° $\mathbb{Z}$ 44'25 -4.8m	
superior conj	11533 Aug 14 08:36	2° $\mathbb{N}$ 03'12 -0°20'20	asc. node		11536 Feb 07 17:41	15° $\mathbb{Z}$ 36'47	
minimum elong	11533 Aug 14 13:37	2° $\mathbb{N}$ 18'54 0°20'29			11536 Feb 29 05:39	0° $\mathbb{A}$	
max. Earth dist.	11533 Aug 16 18:16	5° $\mathbb{N}$ 03'23 1.71808 AU	morning max el		11536 Mar 15 07:33	13° $\mathbb{A}$ 54'16 46°07'32	
asc. node	11533 Aug 22 18:20	12° $\mathbb{N}$ 33'08			11536 Mar 30 21:03	0° $\mathbb{H}$	
	11533 Sep 05 18:06	0° $\mathbb{L}$			11536 Apr 26 14:47	0° $\mathbb{Y}$	
evening rise	11533 Sep 22 02:18	20° $\mathbb{L}$ 19'15			11536 May 21 23:39	0° $\mathbb{B}$	

desc. node	11536 May 29 15:06	9°♄13'23			11538 Dec 28 07:34	0°♄	
	11536 Jun 15 16:09	0°♄		evening max el	11539 Jan 05 00:35	7°♄36'00	45°53'49
	11536 Jul 10 00:00	0°♄			11539 Feb 01 01:51	0°♄	
	11536 Aug 03 04:00	0°♄		greatest brilliancy	11539 Feb 13 05:17	6°♄08'22	-4.8m
	11536 Aug 27 07:06	0°♄		retrograde	11539 Feb 23 00:27	7°♄54'18	
morning set	11536 Sep 16 17:25	25°♄23'04		asc. node	11539 Mar 07 03:47	4°♄59'29	
asc. node	11536 Sep 19 07:57	28°♄37'10		evening set	11539 Mar 09 16:56	3°♄42'32	
	11536 Sep 20 10:38	0°♄			11539 Mar 15 22:56	30°♄	
	11536 Oct 14 14:59	0°♄		inferior conj	11539 Mar 16 00:44	29°♄57'12	2°13'15
				minimum elong	11539 Mar 15 19:46	0°♄04'56	2°11'47
superior conj	11536 Oct 24 16:41	12°♄28'42	1°12'22	min. Earth dist.	11539 Mar 16 06:26	29°♄48'19	0.27791 AU
minimum elong	11536 Oct 24 07:37	12°♄00'35	1°12'33	morning rise	11539 Mar 21 22:03	26°♄24'41	
max. Earth dist.	11536 Oct 26 14:52	14°♄51'41	1.72833 AU	direct	11539 Apr 06 01:39	21°♄53'24	
	11536 Nov 07 20:27	0°♄		greatest brilliancy	11539 Apr 16 14:22	23°♄56'58	-4.8m
evening rise	11536 Nov 30 12:35	27°♄59'01			11539 Apr 28 01:26	0°♄	
	11536 Dec 02 03:52	0°♄		morning max el	11539 May 26 08:06	24°♄20'44	46°50'28
	11536 Dec 26 14:10	0°♄			11539 May 31 20:57	0°♄	
desc. node	11537 Jan 09 00:06	16°♄24'16		desc. node	11539 Jun 27 03:16	28°♄48'57	
	11537 Jan 20 03:42	0°♄			11539 Jun 28 04:06	0°♄	
	11537 Feb 13 20:18	0°♄			11539 Jul 23 18:41	0°♄	
	11537 Mar 10 16:23	0°♄			11539 Aug 17 16:49	0°♄	
	11537 Apr 04 19:05	0°♄			11539 Sep 11 08:01	0°♄	
	11537 Apr 30 13:23	0°♄			11539 Oct 05 20:09	0°♄	
asc. node	11537 May 01 21:37	1°♄31'43		asc. node	11539 Oct 17 21:42	14°♄48'13	
	11537 May 27 23:35	0°♄			11539 Oct 30 06:25	0°♄	
evening max el	11537 Jun 01 15:49	4°♄45'56	46°51'00		11539 Nov 23 15:07	0°♄	
	11537 Jul 01 05:11	0°♄		morning set	11539 Nov 26 16:26	3°♄46'02	
greatest brilliancy	11537 Jul 11 14:41	5°♄19'30	-4.9m		11539 Dec 17 22:50	0°♄	
retrograde	11537 Jul 21 23:35	7°♄19'49					
evening set	11537 Aug 05 23:10	2°♄54'43		superior conj	11540 Jan 02 08:20	18°♄59'54	1°11'57
	11537 Aug 10 21:57	30°♄		minimum elong	11540 Jan 02 17:17	19°♄27'30	1°12'25
inferior conj	11537 Aug 11 18:05	29°♄29'10	2°36'03	max. Earth dist.	11540 Jan 02 06:57	18°♄55'38	1.73190 AU
minimum elong	11537 Aug 11 23:57	29°♄20'12	2°33'47		11540 Jan 11 06:24	0°♄	
min. Earth dist.	11537 Aug 11 15:26	29°♄33'13	0.27132 AU		11540 Feb 04 14:13	0°♄	
morning rise	11537 Aug 18 01:12	25°♄48'38		desc. node	11540 Feb 06 13:01	2°♄24'13	
desc. node	11537 Aug 21 22:25	23°♄57'59		evening rise	11540 Feb 08 23:42	5°♄25'06	
direct	11537 Sep 01 13:15	21°♄43'24			11540 Feb 28 22:00	0°♄	
greatest brilliancy	11537 Sep 11 08:38	23°♄30'21	-4.8m		11540 Mar 24 05:13	0°♄	
	11537 Sep 23 23:31	0°♄			11540 Apr 17 12:22	0°♄	
morning max el	11537 Oct 20 23:04	22°♄37'17	46°06'38		11540 May 11 21:41	0°♄	
	11537 Oct 28 09:37	0°♄		asc. node	11540 May 29 08:29	21°♄16'52	
	11537 Nov 25 10:01	0°♄			11540 Jun 05 13:33	0°♄	
asc. node	11537 Dec 12 21:41	19°♄50'27			11540 Jun 30 19:26	0°♄	
	11537 Dec 21 15:59	0°♄			11540 Jul 27 07:17	0°♄	
	11538 Jan 16 00:53	0°♄		evening max el	11540 Aug 12 09:34	16°♄51'01	46°31'09
	11538 Feb 09 21:23	0°♄			11540 Aug 26 09:04	0°♄	
	11538 Mar 06 10:04	0°♄		desc. node	11540 Sep 18 08:19	15°♄50'29	
	11538 Mar 30 17:15	0°♄		greatest brilliancy	11540 Sep 20 12:27	16°♄44'56	-4.8m
desc. node	11538 Apr 03 14:25	4°♄48'51		retrograde	11540 Oct 01 11:26	18°♄58'11	
morning set	11538 Apr 18 18:21	23°♄40'37		evening set	11540 Oct 18 01:11	13°♄42'07	
	11538 Apr 23 20:02	0°♄		min. Earth dist.	11540 Oct 22 02:22	11°♄14'56	0.28492 AU
	11538 May 17 19:25	0°♄		inferior conj	11540 Oct 22 21:14	10°♄45'32	-7°16'35
max. Earth dist.	11538 May 27 10:11	12°♄03'55	1.71402 AU	minimum elong	11540 Oct 22 11:34	11°♄00'36	7°14'31
				morning rise	11540 Oct 26 22:15	8°♄17'10	
superior conj	11538 May 29 00:29	14°♄04'07	-1°27'35	direct	11540 Nov 13 02:20	2°♄42'04	
minimum elong	11538 May 28 23:47	14°♄01'52	1°28'16	greatest brilliancy	11540 Nov 22 19:33	4°♄24'20	-4.7m
	11538 Jun 10 16:55	0°♄			11540 Dec 29 03:10	0°♄	
	11538 Jul 04 14:25	0°♄		morning max el	11540 Dec 31 21:25	2°♄37'37	45°42'06
evening rise	11538 Jul 08 09:46	4°♄46'19		asc. node	11541 Jan 09 09:05	11°♄02'19	
asc. node	11538 Jul 25 06:53	25°♄53'40			11541 Jan 27 06:25	0°♄	
	11538 Jul 28 13:49	0°♄			11541 Feb 22 17:29	0°♄	
	11538 Aug 21 16:41	0°♄			11541 Mar 20 01:48	0°♄	
	11538 Sep 15 00:57	0°♄			11541 Apr 13 19:44	0°♄	
	11538 Oct 09 17:40	0°♄		desc. node	11541 May 01 04:03	21°♄18'52	
	11538 Nov 04 00:04	0°♄			11541 May 08 04:37	0°♄	
desc. node	11538 Nov 14 02:38	11°♄43'54			11541 Jun 01 07:26	0°♄	
	11538 Nov 30 05:22	0°♄			11541 Jun 25 06:41	0°♄	



morning set	11541 Jul 03 05:50	9°☿59'11		min. Earth dist.	11544 Jan 02 09:17	18°♄23'34	0.28907 AU
	11541 Jul 19 04:49	0°♌		morning rise	11544 Jan 06 17:54	15°♄43'32	
				direct	11544 Jan 23 10:20	10°♄23'49	
superior conj	11541 Aug 11 21:25	29°♌40'06	-0°23'59	greatest brilliancy	11544 Feb 03 05:27	12°♄32'17	-4.8m
minimum elong	11541 Aug 12 03:17	29°♌58'28	0°24'07	asc. node	11544 Feb 06 19:38	14°♄04'49	
	11541 Aug 12 03:46	0°♍			11544 Feb 29 10:54	0°♍	
max. Earth dist.	11541 Aug 14 05:01	2°♍33'56	1.71774 AU	morning max el	11544 Mar 12 22:48	11°♍40'27	46°06'03
asc. node	11541 Aug 21 20:06	12°♍05'43			11544 Mar 30 14:10	0°♎	
	11541 Sep 05 04:40	0°♎			11544 Apr 26 04:40	0°♎	
evening rise	11541 Sep 19 17:31	18°♎04'46			11544 May 21 12:06	0°♏	
	11541 Sep 29 08:11	0°♏		desc. node	11544 May 28 17:07	8°♏42'31	
	11541 Oct 23 15:25	0°♐			11544 Jun 15 03:52	0°♐	
	11541 Nov 17 04:10	0°♑			11544 Jul 09 11:17	0°♑	
desc. node	11541 Dec 11 13:55	29°♑27'51			11544 Aug 02 15:01	0°♒	
	11541 Dec 12 00:39	0°♒			11544 Aug 26 17:55	0°♒	
	11542 Jan 06 07:12	0°♓		morning set	11544 Sep 14 08:10	23°♒06'38	
	11542 Feb 01 03:45	0°♓		asc. node	11544 Sep 18 09:52	28°♒09'58	
	11542 Feb 28 02:10	0°♔			11544 Sep 19 21:19	0°♔	
evening max el	11542 Mar 18 00:49	18°♔36'47	46°25'55		11544 Oct 14 01:33	0°♕	
	11542 Mar 30 03:05	0°♕					
asc. node	11542 Apr 03 13:38	3°♕50'01		superior conj	11544 Oct 22 08:54	10°♕17'35	1°10'27
greatest brilliancy	11542 Apr 27 08:42	18°♕49'16	-4.9m	minimum elong	11544 Oct 21 23:32	9°♕48'34	1°10'37
retrograde	11542 May 07 00:22	20°♕34'37		max. Earth dist.	11544 Oct 24 08:54	12°♕46'14	1.72802 AU
evening set	11542 May 25 02:43	14°♕19'26			11544 Nov 07 06:59	0°♖	
inferior conj	11542 May 27 16:16	12°♕45'21	9°12'39	evening rise	11544 Nov 28 05:07	25°♖49'28	
minimum elong	11542 May 27 14:54	12°♕47'27	9°11'56		11544 Dec 01 14:28	0°♗	
min. Earth dist.	11542 May 27 20:24	12°♕38'59	0.27302 AU		11544 Dec 26 00:56	0°♗	
morning rise	11542 May 30 03:05	11°♕15'21		desc. node	11545 Jan 08 01:55	15°♗56'32	
direct	11542 Jun 17 10:42	4°♕52'09			11545 Jan 19 14:46	0°♘	
greatest brilliancy	11542 Jun 27 06:40	6°♕42'16	-4.9m		11545 Feb 13 07:50	0°♘	
desc. node	11542 Jul 24 14:07	24°♕57'46			11545 Mar 10 04:37	0°♙	
	11542 Jul 30 02:04	0°♘			11545 Apr 04 08:29	0°♙	
morning max el	11542 Aug 06 22:16	7°♘37'44	46°51'24		11545 Apr 30 04:58	0°♘	
	11542 Aug 28 02:10	0°♙		asc. node	11545 Apr 30 23:43	0°♘53'08	
	11542 Sep 23 13:40	0°♙			11545 May 27 20:43	0°♙	
	11542 Oct 19 03:28	0°♚		evening max el	11545 May 30 05:07	2°♙22'40	46°50'50
	11542 Nov 13 06:05	0°♚			11545 Jul 02 18:54	0°♙	
asc. node	11542 Nov 14 11:05	1°♚27'14		greatest brilliancy	11545 Jul 09 06:12	2°♙59'01	-4.9m
	11542 Dec 08 01:08	0°♛		retrograde	11545 Jul 19 12:41	4°♙57'10	
	11543 Jan 01 14:40	0°♛		evening set	11545 Aug 03 14:48	0°♙29'37	
	11543 Jan 26 00:28	0°♛			11545 Aug 04 12:00	30°♙♌	
morning set	11543 Feb 03 09:00	10°♛18'01		inferior conj	11545 Aug 09 07:23	27°♙07'17	2°58'49
	11543 Feb 19 07:46	0°♛		minimum elong	11545 Aug 09 14:01	26°♙57'06	2°56'18
desc. node	11543 Mar 06 02:30	18°♛18'03		min. Earth dist.	11545 Aug 09 06:07	27°♙09'14	0.27114 AU
max. Earth dist.	11543 Mar 10 21:50	24°♛15'35	1.72484 AU	morning rise	11545 Aug 15 13:37	23°♙27'29	
				desc. node	11545 Aug 21 00:20	21°♙00'09	
superior conj	11543 Mar 13 14:04	27°♛34'49	-0°18'03	direct	11545 Aug 30 01:57	19°♙21'36	
minimum elong	11543 Mar 13 09:49	27°♛21'40	0°17'44	greatest brilliancy	11545 Sep 08 22:28	21°♙09'05	-4.8m
	11543 Mar 15 12:50	0°♙			11545 Sep 24 23:02	0°♙	
	11543 Apr 08 15:33	0°♚		morning max el	11545 Oct 18 12:02	20°♙16'32	46°08'03
evening rise	11543 Apr 21 16:22	16°♚15'55			11545 Oct 28 05:38	0°♚	
	11543 May 02 16:12	0°♙			11545 Nov 25 01:00	0°♙	
	11543 May 26 16:12	0°♘		asc. node	11545 Dec 11 23:36	19°♙17'02	
	11543 Jun 19 17:50	0°♙			11545 Dec 21 04:55	0°♛	
asc. node	11543 Jun 26 20:09	8°♙48'39			11546 Jan 15 12:47	0°♛	
	11543 Jul 13 23:50	0°♙			11546 Feb 09 08:42	0°♛	
	11543 Aug 07 13:43	0°♚			11546 Mar 05 21:04	0°♛	
	11543 Sep 01 17:29	0°♙			11546 Mar 30 04:05	0°♙	
	11543 Sep 28 00:23	0°♛		desc. node	11546 Apr 02 16:19	4°♙21'07	
desc. node	11543 Oct 16 18:16	19°♛54'54		morning set	11546 Apr 16 06:21	21°♙14'42	
evening max el	11543 Oct 23 11:36	26°♛35'33	45°57'17		11546 Apr 23 06:50	0°♚	
	11543 Oct 27 01:09	0°♛			11546 May 17 06:12	0°♙	
greatest brilliancy	11543 Dec 01 13:11	25°♛05'42	-4.7m	max. Earth dist.	11546 May 24 15:07	9°♙14'57	1.71419 AU
retrograde	11543 Dec 11 12:55	26°♛53'40					
evening set	11543 Dec 28 23:02	21°♛08'09		superior conj	11546 May 26 12:17	11°♙36'40	-1°27'23
inferior conj	11544 Jan 01 23:08	18°♛39'32	-7°21'29	minimum elong	11546 May 26 10:29	11°♙31'03	1°28'04
minimum elong	11544 Jan 02 08:30	18°♛24'49	7°19'14		11546 Jun 10 03:42	0°♘	

	11546 Jul 04 01:13	0°♌		morning max el	11548 Dec 29 13:16	0°♊26'24	45°42'03
evening rise	11546 Jul 05 21:15	2°♌18'00		asc. node	11549 Jan 08 11:01	10°♊17'45	
asc. node	11546 Jul 24 08:40	25°♌25'21			11549 Jan 26 22:16	0°♊	
	11546 Jul 28 00:41	0°♍			11549 Feb 22 06:56	0°♋	
	11546 Aug 21 03:44	0°♎			11549 Mar 19 14:08	0°♌	
	11546 Sep 14 12:18	0°♏			11549 Apr 13 07:29	0°♍	
	11546 Oct 09 05:34	0°♐		desc. node	11549 Apr 30 06:00	20°♍49'26	
	11546 Nov 03 13:00	0°♑			11549 May 07 16:02	0°♎	
desc. node	11546 Nov 13 04:36	11°♑10'35			11549 May 31 18:38	0°♏	
	11546 Nov 29 20:22	0°♒			11549 Jun 24 17:45	0°♐	
	11546 Dec 28 03:54	0°♓		morning set	11549 Jun 30 17:36	7°♐30'56	
evening max el	11547 Jan 02 14:21	5°♓19'05	45°53'16		11549 Jul 18 15:49	0°♑	
	11547 Feb 02 10:43	0°♒					
greatest brilliancy	11547 Feb 10 19:43	3°♒51'26	-4.8m	superior conj	11549 Aug 09 10:10	27°♑15'39	-0°27'35
retrograde	11547 Feb 20 14:32	5°♒37'22		minimum elong	11549 Aug 09 16:52	27°♑36'36	0°27'43
asc. node	11547 Mar 06 05:48	1°♒58'19		max. Earth dist.	11549 Aug 11 17:27	0°♒08'35	1.71741 AU
evening set	11547 Mar 07 07:03	1°♒25'13			11549 Aug 11 14:43	0°♒	
	11547 Mar 09 19:22	30°♓♌		asc. node	11549 Aug 20 22:02	11°♒37'43	
inferior conj	11547 Mar 13 15:16	27°♓39'39	1°51'14		11549 Sep 04 15:34	0°♎	
minimum elong	11547 Mar 13 11:05	27°♓46'10	1°50'03	evening rise	11549 Sep 17 08:45	15°♎49'13	
min. Earth dist.	11547 Mar 13 21:50	27°♓29'27	0.27823 AU		11549 Sep 28 19:06	0°♏	
morning rise	11547 Mar 19 14:30	24°♓04'35			11549 Oct 23 02:27	0°♐	
direct	11547 Apr 03 16:06	19°♓35'03			11549 Nov 16 15:30	0°♑	
greatest brilliancy	11547 Apr 14 06:46	21°♓40'27	-4.8m	desc. node	11549 Dec 10 15:46	28°♑57'50	
	11547 Apr 29 00:20	0°♒			11549 Dec 11 12:32	0°♒	
morning max el	11547 May 23 22:46	22°♒01'24	46°49'30		11550 Jan 05 20:03	0°♓	
	11547 May 31 17:01	0°♓			11550 Jan 31 18:19	0°♒	
desc. node	11547 Jun 26 05:05	28°♓09'53			11550 Feb 27 20:24	0°♓	
	11547 Jun 27 19:25	0°♏		evening max el	11550 Mar 15 15:44	16°♓18'04	46°24'35
	11547 Jul 23 08:03	0°♐			11550 Mar 30 10:10	0°♏	
	11547 Aug 17 05:08	0°♑		asc. node	11550 Apr 02 15:44	2°♏42'25	
	11547 Sep 10 19:39	0°♒		greatest brilliancy	11550 Apr 24 20:54	16°♏23'46	-4.9m
	11547 Oct 05 07:22	0°♎		retrograde	11550 May 04 13:39	18°♏09'28	
asc. node	11547 Oct 16 23:40	14°♎20'19		evening set	11550 May 22 13:32	11°♏57'38	
	11547 Oct 29 17:20	0°♏		inferior conj	11550 May 25 05:17	10°♏20'03	9°10'33
	11547 Nov 23 01:52	0°♐		minimum elong	11550 May 25 02:57	10°♏23'39	9°09'49
morning set	11547 Nov 24 09:18	1°♐36'55		min. Earth dist.	11550 May 25 08:33	10°♏15'01	0.27313 AU
	11547 Dec 17 09:31	0°♑		morning rise	11550 May 27 16:21	8°♏49'32	
				direct	11550 Jun 15 00:24	2°♏26'49	
superior conj	11547 Dec 31 01:13	16°♑50'57	1°13'43	greatest brilliancy	11550 Jun 24 19:02	4°♏15'50	-4.9m
minimum elong	11547 Dec 31 09:50	17°♑17'31	1°14'13	desc. node	11550 Jul 23 16:06	23°♏54'58	
max. Earth dist.	11547 Dec 31 02:17	16°♑54'12	1.73199 AU		11550 Jul 30 04:08	0°♐	
	11548 Jan 10 17:06	0°♒		morning max el	11550 Aug 04 12:15	5°♐15'02	46°52'15
	11548 Feb 04 01:02	0°♓			11550 Aug 27 19:28	0°♑	
desc. node	11548 Feb 05 14:50	1°♓56'28			11550 Sep 23 03:59	0°♒	
evening rise	11548 Feb 06 15:21	3°♓12'03			11550 Oct 18 16:17	0°♎	
	11548 Feb 28 09:00	0°♒			11550 Nov 12 18:00	0°♏	
	11548 Mar 23 16:29	0°♓		asc. node	11550 Nov 13 12:55	0°♏57'00	
	11548 Apr 16 24:00	0°♏			11550 Dec 07 12:29	0°♐	
	11548 May 11 09:51	0°♐			11551 Jan 01 01:41	0°♑	
asc. node	11548 May 28 10:22	20°♐44'02			11551 Jan 25 11:21	0°♒	
	11548 Jun 05 02:34	0°♑		morning set	11551 Feb 01 01:31	8°♒07'27	
	11548 Jun 30 09:58	0°♒			11551 Feb 18 18:38	0°♓	
	11548 Jul 27 01:13	0°♎		desc. node	11551 Mar 05 04:28	17°♓50'27	
evening max el	11548 Aug 10 00:42	14°♎34'01	46°32'33	max. Earth dist.	11551 Mar 08 11:55	21°♓56'38	1.72526 AU
	11548 Aug 26 15:56	0°♏					
desc. node	11548 Sep 17 10:23	14°♏12'43		superior conj	11551 Mar 11 04:18	25°♓16'14	-0°14'30
greatest brilliancy	11548 Sep 18 03:00	14°♏29'15	-4.8m	minimum elong	11551 Mar 11 00:54	25°♓05'41	0°14'12
retrograde	11548 Sep 29 03:37	16°♏44'07		behind sun begin	11551 Mar 10 13:24	24°♓30'02	
evening set	11548 Oct 15 13:09	11°♏32'53		behind sun end	11551 Mar 11 12:23	25°♓41'21	
min. Earth dist.	11548 Oct 19 16:54	9°♏02'19	0.28443 AU		11551 Mar 14 23:45	0°♒	
inferior conj	11548 Oct 20 12:32	8°♏31'48	-7°04'38		11551 Apr 08 02:33	0°♓	
minimum elong	11548 Oct 20 02:34	8°♏47'16	7°02'26	evening rise	11551 Apr 19 05:15	13°♓51'40	
morning rise	11548 Oct 24 16:21	5°♏59'43			11551 May 02 03:20	0°♏	
direct	11548 Nov 10 17:16	0°♏29'00			11551 May 26 03:30	0°♐	
greatest brilliancy	11548 Nov 20 09:43	2°♏10'58	-4.7m		11551 Jun 19 05:23	0°♑	
	11548 Dec 29 02:16	0°♐		asc. node	11551 Jun 25 21:59	8°♑18'18	

	11551 Jul 13 11:45	0°♍			11554 Feb 08 20:03	0°♎		
	11551 Aug 07 02:15	0°♊			11554 Mar 05 08:06	0°♋		
	11551 Sep 01 07:11	0°♌			11554 Mar 29 14:58	0°♍		
	11551 Sep 27 16:38	0°♎		desc. node	11554 Apr 01 18:14	3°♍53'22		
desc. node	11551 Oct 15 20:16	19°♎09'01		morning set	11554 Apr 13 18:44	18°♍50'01		
evening max el	11551 Oct 21 02:59	24°♎22'33	45°58'08		11554 Apr 22 17:40	0°♎		
	11551 Oct 27 01:28	0°♎			11554 May 16 17:03	0°♏		
greatest brilliancy	11551 Nov 29 04:58	22°♎55'21	-4.7m	max. Earth dist.	11554 May 21 23:00	6°♏35'02	1.71446 AU	
retrograde	11551 Dec 09 04:15	24°♎43'04						
evening set	11551 Dec 26 17:45	18°♎53'41		superior conj	11554 May 24 00:05	9°♏09'02	-1°27'01	
inferior conj	11551 Dec 30 15:15	16°♎28'47	-7°31'59	minimum elong	11554 May 23 21:15	9°♏00'10	1°27'41	
minimum elong	11551 Dec 31 00:15	16°♎14'36	7°29'54		11554 Jun 09 14:35	0°♏		
min. Earth dist.	11551 Dec 31 00:46	16°♎13'48	0.28928 AU	evening rise	11554 Jul 03 08:26	29°♏48'19		
morning rise	11552 Jan 04 06:42	13°♎37'18			11554 Jul 03 12:10	0°♏		
direct	11552 Jan 21 02:27	8°♎13'11		asc. node	11554 Jul 23 10:38	24°♏57'04		
greatest brilliancy	11552 Jan 31 20:43	10°♎20'18	-4.8m		11554 Jul 27 11:42	0°♍		
asc. node	11552 Feb 05 21:38	12°♎35'29			11554 Aug 20 14:55	0°♊		
	11552 Feb 29 14:35	0°♎			11554 Sep 13 23:46	0°♌		
morning max el	11552 Mar 10 13:16	9°♎23'55	46°04'28		11554 Oct 08 17:34	0°♎		
	11552 Mar 30 07:16	0°♋			11554 Nov 03 02:01	0°♎		
	11552 Apr 25 18:48	0°♍		desc. node	11554 Nov 12 06:29	10°♎36'47		
	11552 May 21 00:55	0°♎			11554 Nov 29 11:34	0°♎		
desc. node	11552 May 27 18:54	8°♎09'49			11554 Dec 28 00:53	0°♋		
	11552 Jun 14 15:57	0°♏		evening max el	11554 Dec 31 05:01	3°♋04'46	45°52'52	
	11552 Jul 08 22:56	0°♏			11555 Feb 04 11:27	0°♍		
	11552 Aug 02 02:21	0°♏		greatest brilliancy	11555 Feb 08 09:47	1°♍34'57	-4.8m	
	11552 Aug 26 05:01	0°♍		retrograde	11555 Feb 18 05:18	3°♍21'28		
morning set	11552 Sep 11 22:46	20°♍48'58			11555 Mar 03 05:54	30°♋		
asc. node	11552 Sep 17 11:46	27°♍42'01		evening set	11555 Mar 04 21:36	29°♋08'43		
	11552 Sep 19 08:13	0°♊		asc. node	11555 Mar 05 07:51	28°♋54'48		
	11552 Oct 13 12:20	0°♌		inferior conj	11555 Mar 11 05:58	25°♋23'02	1°29'17	
				minimum elong	11555 Mar 11 02:35	25°♋28'18	1°28'21	
superior conj	11552 Oct 20 01:10	8°♌05'56	1°08'27	min. Earth dist.	11555 Mar 11 13:04	25°♋12'01	0.27855 AU	
minimum elong	11552 Oct 19 15:34	7°♌36'11	1°08'34	morning rise	11555 Mar 17 06:59	21°♋45'48		
max. Earth dist.	11552 Oct 22 01:19	10°♌35'03	1.72770 AU	direct	11555 Apr 01 07:13	17°♋17'50		
	11552 Nov 06 17:45	0°♎		greatest brilliancy	11555 Apr 11 22:49	19°♋24'32	-4.8m	
evening rise	11552 Nov 25 21:52	23°♎39'52			11555 Apr 29 16:51	0°♍		
	11552 Dec 01 01:18	0°♎		morning max el	11555 May 21 14:15	19°♍44'54	46°48'24	
	11552 Dec 25 11:55	0°♎			11555 May 31 12:16	0°♎		
desc. node	11553 Jan 07 03:49	15°♎28'26		desc. node	11555 Jun 25 07:06	27°♎32'11		
	11553 Jan 19 02:02	0°♋			11555 Jun 27 10:23	0°♏		
	11553 Feb 12 19:35	0°♍			11555 Jul 22 21:14	0°♏		
	11553 Mar 09 17:08	0°♎			11555 Aug 16 17:20	0°♏		
	11553 Apr 03 22:16	0°♏			11555 Sep 10 07:15	0°♍		
	11553 Apr 29 21:10	0°♏			11555 Oct 04 18:32	0°♊		
asc. node	11553 Apr 30 01:34	0°♏12'25		asc. node	11555 Oct 16 01:30	13°♊52'11		
evening max el	11553 May 27 17:39	29°♏56'11	46°50'30		11555 Oct 29 04:11	0°♌		
	11553 May 27 19:10	0°♏		morning set	11555 Nov 22 02:00	29°♌27'38		
	11553 Jul 05 08:07	0°♍			11555 Nov 22 12:30	0°♎		
greatest brilliancy	11553 Jul 06 21:34	0°♍36'31	-4.9m		11555 Dec 16 20:03	0°♎		
retrograde	11553 Jul 17 01:27	2°♍32'49						
	11553 Jul 28 07:50	30°♋♏		superior conj	11555 Dec 28 18:06	14°♎42'27	1°15'22	
evening set	11553 Aug 01 06:18	28°♏02'16		minimum elong	11555 Dec 29 02:21	15°♎07'53	1°15'55	
inferior conj	11553 Aug 06 20:27	24°♏43'41	3°21'24	max. Earth dist.	11555 Dec 28 23:16	14°♎58'23	1.73203 AU	
minimum elong	11553 Aug 07 03:49	24°♏32'22	3°18'41		11556 Jan 10 03:38	0°♎		
min. Earth dist.	11553 Aug 06 20:44	24°♏43'15	0.27095 AU		11556 Feb 03 11:41	0°♋		
morning rise	11553 Aug 13 01:33	21°♏05'05		evening rise	11556 Feb 04 07:13	1°♋00'10		
desc. node	11553 Aug 20 02:24	18°♏05'27		desc. node	11556 Feb 04 16:50	1°♋29'47		
direct	11553 Aug 27 14:08	16°♏57'53			11556 Feb 27 19:50	0°♍		
greatest brilliancy	11553 Sep 06 12:26	18°♏46'41	-4.8m		11556 Mar 23 03:34	0°♎		
	11553 Sep 25 16:53	0°♍			11556 Apr 16 11:25	0°♏		
morning max el	11553 Oct 16 01:08	17°♍55'25	46°09'42		11556 May 10 21:47	0°♏		
	11553 Oct 28 01:12	0°♊		asc. node	11556 May 27 12:19	20°♏12'05		
	11553 Nov 24 15:53	0°♌			11556 Jun 04 15:22	0°♏		
asc. node	11553 Dec 11 01:26	18°♌43'22			11556 Jun 30 00:23	0°♍		
	11553 Dec 20 17:50	0°♎			11556 Jul 26 19:22	0°♊		
	11554 Jan 15 00:41	0°♎		evening max el	11556 Aug 07 16:38	12°♊19'29	46°33'40	

	11556 Aug 27 01:17	0°♌		desc. node	11559 Mar 04 06:17	17°♋23'45	
greatest brilliancy	11556 Sep 15 17:32	12°♌13'31	-4.8m	max. Earth dist.	11559 Mar 06 01:47	19°♋38'31	1.72564 AU
desc. node	11556 Sep 16 12:23	12°♌31'18					
retrograde	11556 Sep 26 19:46	14°♌29'34		superior conj	11559 Mar 08 18:39	22°♋59'32	-0°10'57
evening set	11556 Oct 13 01:02	9°♌23'24		minimum elong	11559 Mar 08 16:06	22°♋51'37	0°10'40
min. Earth dist.	11556 Oct 17 07:14	6°♌49'25	0.28391 AU	behind sun begin	11559 Mar 07 21:44	21°♋54'43	
inferior conj	11556 Oct 18 03:36	6°♌17'47	-6°51'56	behind sun end	11559 Mar 09 10:27	23°♋48'31	
minimum elong	11556 Oct 17 17:27	6°♌33'33	6°49'37		11559 Mar 14 10:13	0°♑	
morning rise	11556 Oct 22 10:18	3°♌41'51			11559 Apr 07 13:06	0°♎	
	11556 Oct 30 00:24	30°♌♎		evening rise	11559 Apr 16 18:23	11°♎29'43	
direct	11556 Nov 08 08:23	28°♎15'53			11559 May 01 14:02	0°♐	
greatest brilliancy	11556 Nov 17 23:20	29°♎57'01	-4.7m		11559 May 25 14:24	0°♑	
	11556 Nov 18 02:53	0°♌			11559 Jun 18 16:32	0°♏	
morning max el	11556 Dec 27 04:56	28°♌15'26	45°42'08	asc. node	11559 Jun 24 24:00	7°♏49'46	
	11556 Dec 29 00:09	0°♎			11559 Jul 12 23:15	0°♐	
asc. node	11557 Jan 07 13:06	9°♎34'57			11559 Aug 06 14:22	0°♎	
	11557 Jan 26 13:33	0°♎			11559 Aug 31 20:30	0°♌	
	11557 Feb 21 19:55	0°♎			11559 Sep 27 08:39	0°♎	
	11557 Mar 19 02:04	0°♋		desc. node	11559 Oct 14 22:09	18°♎23'35	
	11557 Apr 12 18:52	0°♑		evening max el	11559 Oct 18 17:24	22°♎08'30	45°58'51
desc. node	11557 Apr 29 07:46	20°♑20'33			11559 Oct 27 02:26	0°♎	
	11557 May 07 03:05	0°♎		greatest brilliancy	11559 Nov 26 20:44	20°♎46'02	-4.7m
	11557 May 31 05:28	0°♐		retrograde	11559 Dec 06 19:27	22°♎33'43	
	11557 Jun 24 04:26	0°♑		evening set	11559 Dec 24 12:20	16°♎40'20	
morning set	11557 Jun 28 05:47	5°♑05'12		inferior conj	11559 Dec 28 07:22	14°♎19'11	-7°41'53
	11557 Jul 18 02:25	0°♏		minimum elong	11559 Dec 28 15:57	14°♎05'38	7°39'56
				min. Earth dist.	11559 Dec 28 16:27	14°♎04'51	0.28951 AU
superior conj	11557 Aug 06 23:08	24°♏53'00	-0°31'07	morning rise	11560 Jan 01 19:28	11°♎32'23	
minimum elong	11557 Aug 07 06:36	25°♏16'23	0°31'15	direct	11560 Jan 18 18:12	6°♎03'28	
max. Earth dist.	11557 Aug 09 08:21	27°♏52'02	1.71711 AU	greatest brilliancy	11560 Jan 29 12:38	8°♎10'08	-4.8m
	11557 Aug 11 01:16	0°♐		asc. node	11560 Feb 04 23:39	11°♎10'05	
asc. node	11557 Aug 19 23:58	11°♐10'49			11560 Feb 29 16:12	0°♎	
	11557 Sep 04 02:08	0°♎		morning max el	11560 Mar 08 03:39	7°♎08'16	46°03'04
evening rise	11557 Sep 14 23:58	13°♎34'30			11560 Mar 29 23:36	0°♋	
	11557 Sep 28 05:43	0°♌			11560 Apr 25 08:20	0°♑	
	11557 Oct 22 13:12	0°♎			11560 May 20 13:11	0°♎	
	11557 Nov 16 02:33	0°♎		desc. node	11560 May 26 20:54	7°♎39'13	
desc. node	11557 Dec 09 17:42	28°♎28'59			11560 Jun 14 03:34	0°♐	
	11557 Dec 11 00:09	0°♎			11560 Jul 08 10:09	0°♑	
	11558 Jan 05 08:36	0°♋			11560 Aug 01 13:17	0°♏	
	11558 Jan 31 08:38	0°♑			11560 Aug 25 15:42	0°♐	
	11558 Feb 27 14:36	0°♎		morning set	11560 Sep 09 13:27	18°♐32'35	
evening max el	11558 Mar 13 06:11	13°♎59'33	46°23'12	asc. node	11560 Sep 16 13:34	27°♐14'58	
	11558 Mar 30 19:11	0°♐			11560 Sep 18 18:43	0°♎	
asc. node	11558 Apr 01 17:39	1°♐33'57			11560 Oct 12 22:44	0°♌	
greatest brilliancy	11558 Apr 22 09:51	14°♐00'43	-4.9m				
retrograde	11558 May 02 02:32	15°♐46'04		superior conj	11560 Oct 17 17:35	5°♌55'57	1°06'21
evening set	11558 May 20 00:03	9°♐38'33		minimum elong	11560 Oct 17 07:47	5°♌25'35	1°06'24
inferior conj	11558 May 22 18:29	7°♐56'43	9°07'32	max. Earth dist.	11560 Oct 19 17:08	8°♌23'15	1.72738 AU
minimum elong	11558 May 22 15:11	8°♐01'49	9°06'44		11560 Nov 06 04:08	0°♎	
min. Earth dist.	11558 May 22 21:15	7°♐52'26	0.27323 AU	evening rise	11560 Nov 23 14:47	21°♎32'04	
morning rise	11558 May 25 06:19	6°♐24'50			11560 Nov 30 11:46	0°♎	
direct	11558 Jun 12 13:54	0°♐03'24			11560 Dec 24 22:34	0°♎	
greatest brilliancy	11558 Jun 22 08:08	1°♐51'50	-4.9m	desc. node	11561 Jan 06 05:49	15°♎01'33	
desc. node	11558 Jul 22 18:08	22°♐55'19			11561 Jan 18 13:01	0°♋	
	11558 Jul 30 04:16	0°♑			11561 Feb 12 07:04	0°♑	
morning max el	11558 Aug 02 01:20	2°♑51'31	46°53'11		11561 Mar 09 05:24	0°♎	
	11558 Aug 27 11:52	0°♏			11561 Apr 03 11:50	0°♐	
	11558 Sep 22 17:38	0°♐		asc. node	11561 Apr 29 03:33	29°♐32'50	
	11558 Oct 18 04:32	0°♎			11561 Apr 29 13:14	0°♑	
	11558 Nov 12 05:26	0°♌		evening max el	11561 May 25 06:02	27°♑30'39	46°50'15
asc. node	11558 Nov 12 14:47	0°♌28'11			11561 May 27 18:05	0°♏	
	11558 Dec 06 23:25	0°♎		greatest brilliancy	11561 Jul 04 12:19	28°♏14'28	-4.9m
	11558 Dec 31 12:20	0°♎			11561 Jul 11 17:40	0°♐	
	11559 Jan 24 21:51	0°♎		retrograde	11561 Jul 14 14:33	0°♐09'48	
morning set	11559 Jan 29 17:58	5°♎57'55			11561 Jul 17 10:39	30°♌♏	
	11559 Feb 18 05:04	0°♋		evening set	11561 Jul 29 21:59	25°♏35'35	

inferior conj	11561 Aug 04 09:32	22°Ω21'00	3°43'43	max. Earth dist.	11563 Dec 26 20:34	13°Ω03'29	1.73202 AU
minimum elong	11561 Aug 04 17:36	22°Ω08'39	3°40'49		11564 Jan 09 14:11	0°≈	
min. Earth dist.	11561 Aug 04 11:07	22°Ω18'33	0.27083 AU	evening rise	11564 Feb 01 23:14	28°≈48'47	
morning rise	11561 Aug 10 13:19	18°Ω44'14			11564 Feb 02 22:21	0°✕	
desc. node	11561 Aug 19 04:24	15°Ω17'23		desc. node	11564 Feb 03 18:39	1°✕02'33	
direct	11561 Aug 25 02:32	14°Ω34'54			11564 Feb 27 06:42	0°Υ	
greatest brilliancy	11561 Sep 04 02:20	16°Ω25'09	-4.8m		11564 Mar 22 14:44	0°Ϸ	
	11561 Sep 26 05:45	0°♐			11564 Apr 15 22:58	0°♐	
morning max el	11561 Oct 13 15:14	15°♐37'34	46°11'27		11564 May 10 09:55	0°♋	
	11561 Oct 27 19:52	0°♊		asc. node	11564 May 26 14:19	19°♋39'43	
	11561 Nov 24 06:15	0°♋			11564 Jun 04 04:26	0°♊	
asc. node	11561 Dec 10 03:31	18°♋11'36			11564 Jun 29 15:10	0°♐	
	11561 Dec 20 06:21	0°♌			11564 Jul 26 14:09	0°♊	
	11562 Jan 14 12:16	0°♋		evening max el	11564 Aug 05 08:42	10°♊04'49	46°34'52
	11562 Feb 08 07:08	0°≈			11564 Aug 27 14:09	0°♋	
	11562 Mar 04 18:55	0°✕		greatest brilliancy	11564 Sep 13 08:28	9°♋57'48	-4.8m
	11562 Mar 29 01:41	0°Υ		desc. node	11564 Sep 15 14:19	10°♋45'36	
desc. node	11562 Mar 31 20:03	3°Υ25'49		retrograde	11564 Sep 24 11:31	12°♋14'14	
morning set	11562 Apr 11 07:04	16°Υ25'45		evening set	11564 Oct 10 13:01	7°♋13'14	
	11562 Apr 22 04:20	0°Ϸ		min. Earth dist.	11564 Oct 14 21:40	4°♋35'39	0.28336 AU
	11562 May 16 03:43	0°♐		inferior conj	11564 Oct 15 18:37	4°♋03'06	-6°38'30
max. Earth dist.	11562 May 19 09:19	4°♐03'24	1.71470 AU	minimum elong	11564 Oct 15 08:20	4°♋19'05	6°36'04
				morning rise	11564 Oct 20 04:10	1°♋23'07	
superior conj	11562 May 21 11:42	6°♐41'27	-1°26'29		11564 Oct 22 16:18	30°♋♊	
minimum elong	11562 May 21 07:51	6°♐29'22	1°27'06	direct	11564 Nov 05 23:37	26°♊02'12	
	11562 Jun 09 01:15	0°♋		greatest brilliancy	11564 Nov 15 12:50	27°♊42'09	-4.8m
evening rise	11562 Jun 30 19:36	27°♋19'16			11564 Nov 21 02:19	0°♋	
	11562 Jul 02 22:53	0°♊		morning max el	11564 Dec 24 19:52	26°♋02'10	45°42'16
asc. node	11562 Jul 22 12:32	24°♊29'14			11564 Dec 28 21:25	0°♌	
	11562 Jul 26 22:33	0°♐		asc. node	11565 Jan 06 15:00	8°♌51'46	
	11562 Aug 20 01:57	0°♊			11565 Jan 26 04:46	0°♋	
	11562 Sep 13 11:07	0°♋			11565 Feb 21 08:58	0°≈	
	11562 Oct 08 05:29	0°♌			11565 Mar 18 14:07	0°✕	
	11562 Nov 02 14:59	0°♋			11565 Apr 12 06:23	0°Υ	
desc. node	11562 Nov 11 08:32	10°♋03'50		desc. node	11565 Apr 28 09:45	19°Υ51'48	
	11562 Nov 29 02:48	0°≈			11565 May 06 14:19	0°Ϸ	
	11562 Dec 27 22:27	0°✕			11565 May 30 16:32	0°♐	
evening max el	11562 Dec 28 20:19	0°✕52'38	45°52'25		11565 Jun 23 15:24	0°♋	
greatest brilliancy	11563 Feb 05 23:23	29°✕18'21	-4.8m	morning set	11565 Jun 25 17:29	2°♋37'00	
	11563 Feb 08 04:49	0°Υ			11565 Jul 17 13:19	0°♊	
retrograde	11563 Feb 15 20:05	1°Υ05'31					
	11563 Feb 23 04:33	30°♋♌		superior conj	11565 Aug 04 11:36	22°♊27'52	-0°34'39
evening set	11563 Mar 02 12:19	26°✕52'08		minimum elong	11565 Aug 04 19:48	22°♊53'31	0°34'46
asc. node	11563 Mar 04 09:46	25°✕48'25		max. Earth dist.	11565 Aug 06 21:58	25°♊30'32	1.71675 AU
inferior conj	11563 Mar 08 20:33	23°✕06'20	1°07'05		11565 Aug 10 12:07	0°♐	
minimum elong	11563 Mar 08 18:00	23°✕10'18	1°06'27	asc. node	11565 Aug 19 01:43	10°♐42'32	
min. Earth dist.	11563 Mar 09 03:56	22°✕54'53	0.27891 AU		11565 Sep 03 12:57	0°♊	
morning rise	11563 Mar 14 23:11	19°✕27'07		evening rise	11565 Sep 12 14:43	11°♊17'30	
direct	11563 Mar 29 22:44	15°✕00'40			11565 Sep 27 16:35	0°♋	
greatest brilliancy	11563 Apr 09 14:19	17°✕07'51	-4.8m		11565 Oct 22 00:14	0°♌	
	11563 Apr 30 05:13	0°Υ			11565 Nov 15 13:56	0°♋	
morning max el	11563 May 19 05:58	17°Υ28'58	46°47'12	desc. node	11565 Dec 08 19:43	27°♋59'21	
	11563 May 31 07:03	0°Ϸ			11565 Dec 10 12:07	0°≈	
desc. node	11563 Jun 24 09:08	26°Ϸ54'50			11566 Jan 04 21:34	0°✕	
	11563 Jun 27 01:09	0°♐			11566 Jan 30 23:26	0°Υ	
	11563 Jul 22 10:16	0°♋			11566 Feb 27 09:35	0°Ϸ	
	11563 Aug 16 05:26	0°♊		evening max el	11566 Mar 10 19:39	11°♋37'55	46°21'49
	11563 Sep 09 18:46	0°♐			11566 Mar 31 07:47	0°♐	
	11563 Oct 04 05:38	0°♊		asc. node	11566 Mar 31 19:38	0°♐22'58	
asc. node	11563 Oct 15 03:22	13°♊24'15		greatest brilliancy	11566 Apr 19 23:06	11°♐37'17	-4.9m
	11563 Oct 28 15:01	0°♋		retrograde	11566 Apr 29 14:57	13°♐22'03	
morning set	11563 Nov 19 18:49	27°♋18'40		evening set	11566 May 17 10:08	7°♐19'26	
	11563 Nov 21 23:08	0°♌		inferior conj	11566 May 20 07:44	5°♐32'43	9°03'30
	11563 Dec 16 06:35	0°♋		minimum elong	11566 May 20 03:30	5°♐39'15	9°02'36
				min. Earth dist.	11566 May 20 10:17	5°♐28'44	0.27337 AU
superior conj	11563 Dec 26 11:12	12°♋34'35	1°16'55	morning rise	11566 May 22 20:52	3°♐58'40	
minimum elong	11563 Dec 26 19:01	12°♋58'42	1°17'29		11566 May 30 08:27	30°♋♌	

direct	11566 Jun 10 03:02	27°♄39'03		11568 Nov 29 22:38	0°♄	
greatest brilliancy	11566 Jun 19 21:58	29°♄27'39	-4.9m	11568 Dec 24 09:38	0°♁	
	11566 Jun 21 08:14	0°♂		desc. node	11569 Jan 05 07:38	14°♁32'53
desc. node	11566 Jul 21 20:04	21°♂55'42			11569 Jan 18 00:25	0°♄
	11566 Jul 30 03:50	0°♄			11569 Feb 11 19:01	0°♄
morning max el	11566 Jul 30 13:41	0°♄24'42	46°53'58		11569 Mar 08 18:11	0°♄
	11566 Aug 27 04:27	0°♂			11569 Apr 03 01:57	0°♂
	11566 Sep 22 07:37	0°♄		asc. node	11569 Apr 28 05:39	28°♂52'02
	11566 Oct 17 17:08	0°♂			11569 Apr 29 06:01	0°♄
asc. node	11566 Nov 11 16:48	29°♂58'49		evening max el	11569 May 22 19:15	25°♄06'23 46°50'09
	11566 Nov 11 17:12	0°♂			11569 May 27 18:26	0°♂
	11566 Dec 06 10:41	0°♄		greatest brilliancy	11569 Jul 02 02:32	25°♂51'21 -4.9m
	11566 Dec 30 23:19	0°♄		retrograde	11569 Jul 12 04:23	27°♂46'32
	11567 Jan 24 08:43	0°♁		evening set	11569 Jul 27 13:58	23°♂08'19
morning set	11567 Jan 27 10:28	3°♁47'19		inferior conj	11569 Aug 01 22:45	19°♂57'50 4°05'30
	11567 Feb 17 15:54	0°♄		minimum elong	11569 Aug 02 07:28	19°♂44'31 4°02'25
desc. node	11567 Mar 03 08:09	16°♄55'58		min. Earth dist.	11569 Aug 02 01:13	19°♂54'04 0.27073 AU
max. Earth dist.	11567 Mar 03 16:50	17°♄22'52	1.72601 AU	morning rise	11569 Aug 08 01:03	16°♂23'24
				desc. node	11569 Aug 18 06:20	12°♂34'55
superior conj	11567 Mar 06 09:15	20°♄42'28	-0°07'24	direct	11569 Aug 22 15:36	12°♂11'31
minimum elong	11567 Mar 06 07:32	20°♄37'10	0°07'08	greatest brilliancy	11569 Sep 01 15:51	14°♂02'41 -4.8m
behind sun begin	11567 Mar 05 09:38	19°♄29'16			11569 Sep 26 15:36	0°♄
behind sun end	11567 Mar 07 05:27	21°♄45'06		morning max el	11569 Oct 11 06:13	13°♄20'56 46°13'00
	11567 Mar 13 21:04	0°♄			11569 Oct 27 14:23	0°♂
	11567 Apr 07 00:01	0°♄			11569 Nov 23 20:49	0°♂
evening rise	11567 Apr 14 07:50	9°♄07'52		asc. node	11569 Dec 09 05:23	17°♂38'14
	11567 May 01 01:04	0°♂			11569 Dec 19 19:10	0°♄
	11567 May 25 01:38	0°♄			11570 Jan 14 00:10	0°♄
	11567 Jun 18 04:03	0°♂			11570 Feb 07 18:31	0°♁
asc. node	11567 Jun 24 01:54	7°♂19'40			11570 Mar 04 06:02	0°♄
	11567 Jul 12 11:11	0°♄			11570 Mar 28 12:41	0°♄
	11567 Aug 06 02:59	0°♂		desc. node	11570 Mar 30 21:58	2°♄57'42
	11567 Aug 31 10:26	0°♂		morning set	11570 Apr 08 19:33	14°♄01'06
	11567 Sep 27 01:32	0°♄			11570 Apr 21 15:18	0°♄
desc. node	11567 Oct 14 00:15	17°♄36'33			11570 May 15 14:41	0°♂
evening max el	11567 Oct 16 07:15	19°♄51'31	45°59'49	max. Earth dist.	11570 May 16 19:43	1°♂31'03 1.71492 AU
	11567 Oct 27 05:31	0°♄				
greatest brilliancy	11567 Nov 24 12:03	18°♄34'47	-4.7m	superior conj	11570 May 18 23:24	4°♂13'09 -1°25'46
retrograde	11567 Dec 04 10:58	20°♄23'10		minimum elong	11570 May 18 18:33	3°♂57'56 1°26'21
evening set	11567 Dec 22 06:47	14°♄25'34			11570 Jun 08 12:14	0°♄
inferior conj	11567 Dec 25 23:26	12°♄08'10	-7°51'05	evening rise	11570 Jun 28 06:55	24°♄49'47
minimum elong	11567 Dec 26 07:34	11°♄55'20	7°49'16		11570 Jul 02 09:53	0°♂
min. Earth dist.	11567 Dec 26 08:00	11°♄54'41	0.28972 AU	asc. node	11570 Jul 21 14:21	24°♂00'21
morning rise	11567 Dec 30 08:15	9°♄26'15			11570 Jul 26 09:38	0°♄
direct	11568 Jan 16 09:48	3°♄52'14			11570 Aug 19 13:12	0°♂
greatest brilliancy	11568 Jan 27 04:49	5°♄59'04	-4.8m		11570 Sep 12 22:42	0°♂
asc. node	11568 Feb 04 01:36	9°♄46'05			11570 Oct 07 17:39	0°♄
	11568 Feb 29 17:04	0°♁			11570 Nov 02 04:18	0°♄
morning max el	11568 Mar 05 18:34	4°♁52'39	46°01'46	desc. node	11570 Nov 10 10:30	9°♄29'37
	11568 Mar 29 16:05	0°♄			11570 Nov 28 18:35	0°♁
	11568 Apr 24 22:09	0°♄		evening max el	11570 Dec 26 12:14	28°♁41'11 45°51'58
	11568 May 20 01:47	0°♄			11570 Dec 27 21:16	0°♄
desc. node	11568 May 25 22:53	7°♄07'35		greatest brilliancy	11571 Feb 03 13:33	27°♄02'02 -4.8m
	11568 Jun 13 15:30	0°♂		retrograde	11571 Feb 13 10:52	28°♄49'10
	11568 Jul 07 21:41	0°♄		evening set	11571 Feb 28 03:25	24°♄35'17
	11568 Aug 01 00:32	0°♂		asc. node	11571 Mar 03 11:47	22°♄39'35
	11568 Aug 25 02:45	0°♄		inferior conj	11571 Mar 06 11:17	20°♄49'28 0°44'55
morning set	11568 Sep 07 03:57	16°♄14'18		minimum elong	11571 Mar 06 09:34	20°♄52'08 0°44'34
asc. node	11568 Sep 15 15:30	26°♄47'02		min. Earth dist.	11571 Mar 06 18:56	20°♄37'35 0.27925 AU
	11568 Sep 18 05:37	0°♂		morning rise	11571 Mar 12 15:19	17°♄08'20
	11568 Oct 12 09:33	0°♂		direct	11571 Mar 27 14:30	12°♄43'33
				greatest brilliancy	11571 Apr 07 05:35	14°♄50'34 -4.8m
superior conj	11568 Oct 15 09:42	3°♂43'39	1°04'07		11571 Apr 30 14:33	0°♄
minimum elong	11568 Oct 14 23:46	3°♂12'51	1°04'08	morning max el	11571 May 16 21:09	15°♄11'15 46°45'50
max. Earth dist.	11568 Oct 17 07:59	6°♂07'05	1.72708 AU		11571 May 31 01:32	0°♄
	11568 Nov 05 14:57	0°♄		desc. node	11571 Jun 23 10:57	26°♄16'38
evening rise	11568 Nov 21 07:32	19°♄22'23			11571 Jun 26 15:56	0°♂

	11571 Jul 21 23:24	0°☿			11574 Feb 27 04:59	0°♄	
	11571 Aug 15 17:38	0°♌		evening max el	11574 Mar 08 08:27	9°♄15'02	46°20'24
	11571 Sep 09 06:21	0°♍		asc. node	11574 Mar 30 21:44	29°♄10'30	
	11571 Oct 03 16:49	0°♊			11574 Apr 01 00:31	0°♊	
asc. node	11571 Oct 14 05:20	12°♊56'26		greatest brilliancy	11574 Apr 17 12:29	9°♊14'23	-4.8m
	11571 Oct 28 01:54	0°♋		retrograde	11574 Apr 27 03:32	10°♊58'48	
morning set	11571 Nov 17 11:50	25°♋10'04		evening set	11574 May 14 19:48	5°♊01'30	
	11571 Nov 21 09:51	0°♈		inferior conj	11574 May 17 21:03	3°♊09'21	8°58'19
	11571 Dec 15 17:14	0°♉		minimum elong	11574 May 17 15:57	3°♊17'16	8°57'19
				min. Earth dist.	11574 May 17 23:31	3°♊05'32	0.27352 AU
superior conj	11571 Dec 24 04:26	10°♉26'47	1°18'21	morning rise	11574 May 20 12:02	1°♊32'27	
minimum elong	11571 Dec 24 11:46	10°♉49'24	1°18'56		11574 May 23 03:00	30°♋♄	
max. Earth dist.	11571 Dec 24 16:27	11°♉03'51	1.73203 AU	direct	11574 Jun 07 15:51	25°♄15'11	
	11572 Jan 09 00:52	0°♋		greatest brilliancy	11574 Jun 17 12:10	27°♄04'36	-4.9m
evening rise	11572 Jan 30 15:11	26°♋36'48			11574 Jun 23 23:54	0°♊	
	11572 Feb 02 09:09	0°♈		desc. node	11574 Jul 20 22:05	20°♊58'11	
desc. node	11572 Feb 02 20:31	0°♈35'01		morning max el	11574 Jul 28 02:17	27°♊58'58	46°54'43
	11572 Feb 26 17:42	0°♍			11574 Jul 30 02:11	0°☿	
	11572 Mar 22 02:01	0°♄			11574 Aug 26 20:33	0°♌	
	11572 Apr 15 10:39	0°♊			11574 Sep 21 21:16	0°♍	
	11572 May 09 22:13	0°☿			11574 Oct 17 05:28	0°♊	
asc. node	11572 May 25 16:12	19°☿06'31		asc. node	11574 Nov 10 18:38	29°♊29'31	
	11572 Jun 03 17:43	0°♌			11574 Nov 11 04:44	0°♋	
	11572 Jun 29 06:16	0°♍			11574 Dec 05 21:42	0°♈	
	11572 Jul 26 09:33	0°♊			11574 Dec 30 10:03	0°♉	
evening max el	11572 Aug 03 00:24	7°♊48'49	46°36'03		11575 Jan 23 19:18	0°♋	
	11572 Aug 28 07:26	0°♋		morning set	11575 Jan 25 03:18	1°♋38'40	
greatest brilliancy	11572 Sep 11 00:14	7°♋43'06	-4.8m		11575 Feb 17 02:26	0°♈	
desc. node	11572 Sep 14 16:25	8°♋56'20		max. Earth dist.	11575 Mar 01 10:31	15°♈16'13	1.72643 AU
retrograde	11572 Sep 22 03:00	9°♋59'06		desc. node	11575 Mar 02 10:08	16°♈29'22	
evening set	11572 Oct 08 01:15	5°♋03'22					
min. Earth dist.	11572 Oct 12 12:32	2°♋21'54	0.28276 AU	superior conj	11575 Mar 04 00:02	18°♈26'48	-0°03'52
inferior conj	11572 Oct 13 09:45	1°♋48'56	-6°24'26	minimum elong	11575 Mar 03 23:10	18°♈24'08	0°03'36
minimum elong	11572 Oct 12 23:24	2°♋05'02	6°21'56	behind sun begin	11575 Mar 02 23:31	17°♈10'50	
	11572 Oct 16 08:40	30°♋♊		behind sun end	11575 Mar 04 22:50	19°♈37'27	
morning rise	11572 Oct 17 22:07	29°♊04'50			11575 Mar 13 07:39	0°♍	
direct	11572 Nov 03 14:40	23°♊49'10			11575 Apr 06 10:43	0°♄	
greatest brilliancy	11572 Nov 13 02:41	25°♊28'02	-4.8m	evening rise	11575 Apr 11 21:22	6°♄46'56	
	11572 Nov 22 20:34	0°♋			11575 Apr 30 11:56	0°♊	
morning max el	11572 Dec 22 09:55	23°♋47'01	45°42'23		11575 May 24 12:42	0°☿	
	11572 Dec 28 17:48	0°♈			11575 Jun 17 15:23	0°♌	
asc. node	11573 Jan 05 16:56	8°♈09'35		asc. node	11575 Jun 23 03:45	6°♌50'03	
	11573 Jan 25 19:43	0°♉			11575 Jul 11 22:56	0°♍	
	11573 Feb 20 21:55	0°♋			11575 Aug 05 15:28	0°♊	
	11573 Mar 18 02:07	0°♈			11575 Aug 31 00:17	0°♋	
	11573 Apr 11 17:53	0°♍			11575 Sep 26 18:30	0°♈	
desc. node	11573 Apr 27 11:42	19°♍23'03		desc. node	11575 Oct 13 02:15	16°♈49'15	
	11573 May 06 01:30	0°♄		evening max el	11575 Oct 13 21:36	17°♈36'30	46°00'53
	11573 May 30 03:32	0°♊			11575 Oct 27 09:59	0°♉	
morning set	11573 Jun 23 04:59	0°☿08'25		greatest brilliancy	11575 Nov 22 02:52	16°♉23'59	-4.7m
	11573 Jun 23 02:18	0°☿		retrograde	11575 Dec 02 03:06	18°♉13'51	
	11573 Jul 17 00:09	0°♌		evening set	11575 Dec 20 01:07	12°♉12'09	
				inferior conj	11575 Dec 23 15:32	9°♉58'20	-7°59'31
superior conj	11573 Aug 02 00:03	20°♌02'46	-0°38'07	minimum elong	11575 Dec 23 23:12	9°♉46'18	7°57'51
minimum elong	11573 Aug 02 08:55	20°♌30'30	0°38'15	min. Earth dist.	11575 Dec 23 23:13	9°♉46'15	0.28988 AU
max. Earth dist.	11573 Aug 04 08:57	23°♌00'51	1.71642 AU	morning rise	11575 Dec 27 21:09	7°♉21'26	
	11573 Aug 09 22:56	0°♍		direct	11576 Jan 14 01:36	1°♉42'18	
asc. node	11573 Aug 18 03:41	10°♍14'57		greatest brilliancy	11576 Jan 24 20:36	3°♉49'07	-4.8m
	11573 Sep 02 23:44	0°♊		asc. node	11576 Feb 03 03:37	8°♉26'18	
evening rise	11573 Sep 10 05:25	9°♊00'25			11576 Feb 29 16:11	0°♋	
	11573 Sep 27 03:23	0°♋		morning max el	11576 Mar 03 10:16	2°♋40'30	46°00'30
	11573 Oct 21 11:10	0°♈			11576 Mar 29 07:48	0°♈	
	11573 Nov 15 01:11	0°♉			11576 Apr 24 11:28	0°♍	
desc. node	11573 Dec 07 21:35	27°♉29'47			11576 May 19 14:00	0°♄	
	11573 Dec 09 23:56	0°♋		desc. node	11576 May 25 00:41	6°♄36'26	
	11574 Jan 04 10:26	0°♈			11576 Jun 13 03:07	0°♊	
	11574 Jan 30 14:15	0°♍			11576 Jul 07 08:56	0°☿	

	11576 Jul 31 11:29	0°♋		asc. node	11579 Mar 02 13:50	19°♋30'12	
	11576 Aug 24 13:29	0°♍		inferior conj	11579 Mar 04 02:03	18°♋33'53	0°22'46
morning set	11576 Sep 04 18:09	13°♍55'58		minimum elong	11579 Mar 04 01:11	18°♋35'15	0°22'43
asc. node	11576 Sep 14 17:23	26°♍19'55		min. Earth dist.	11579 Mar 04 10:14	18°♋21'08	0.27954 AU
	11576 Sep 17 16:13	0°♌		morning rise	11579 Mar 10 07:14	14°♋50'52	
	11576 Oct 11 20:04	0°♍		direct	11579 Mar 25 05:54	10°♋27'49	
				greatest brilliancy	11579 Apr 04 20:57	12°♋34'35	-4.8m
superior conj	11576 Oct 13 01:33	1°♍31'25	1°01'46		11579 Apr 30 20:44	0°♎	
minimum elong	11576 Oct 12 15:32	1°♍00'22	1°01'45	morning max el	11579 May 14 11:19	12°♎52'19	46°44'34
max. Earth dist.	11576 Oct 14 23:53	3°♍55'05	1.72680 AU		11579 May 30 19:04	0°♏	
	11576 Nov 05 01:27	0°♎		desc. node	11579 Jun 22 12:59	25°♏40'43	
evening rise	11576 Nov 19 00:16	17°♎13'35			11579 Jun 26 06:06	0°♐	
	11576 Nov 29 09:13	0°♏			11579 Jul 21 12:04	0°♑	
	11576 Dec 23 20:22	0°♐			11579 Aug 15 05:29	0°♋	
desc. node	11577 Jan 04 09:34	14°♐05'35			11579 Sep 08 17:41	0°♍	
	11577 Jan 17 11:29	0°♋			11579 Oct 03 03:46	0°♌	
	11577 Feb 11 06:35	0°♎		asc. node	11579 Oct 13 07:08	12°♌28'45	
	11577 Mar 08 06:35	0°♏			11579 Oct 27 12:34	0°♍	
	11577 Apr 02 15:47	0°♐		morning set	11579 Nov 15 04:22	23°♍00'36	
asc. node	11577 Apr 27 07:30	28°♐11'11			11579 Nov 20 20:20	0°♎	
	11577 Apr 28 22:44	0°♑			11579 Dec 15 03:38	0°♏	
evening max el	11577 May 20 09:12	22°♑44'51	46°49'45				
	11577 May 27 19:44	0°♋		superior conj	11579 Dec 21 21:22	8°♏18'52	1°19'39
greatest brilliancy	11577 Jun 29 16:05	23°♋27'32	-4.9m	minimum elong	11579 Dec 22 04:10	8°♏39'52	1°20'17
retrograde	11577 Jul 09 18:08	25°♋22'41		max. Earth dist.	11579 Dec 22 10:41	8°♏59'58	1.73200 AU
evening set	11577 Jul 25 05:47	20°♋40'26			11580 Jan 08 11:19	0°♐	
inferior conj	11577 Jul 30 11:35	17°♋34'04	4°27'00	evening rise	11580 Jan 28 06:56	24°♐24'58	
minimum elong	11577 Jul 30 20:53	17°♋19'52	4°23'47	desc. node	11580 Feb 01 22:29	0°♋08'28	
min. Earth dist.	11577 Jul 30 14:38	17°♋29'25	0.27066 AU		11580 Feb 01 19:44	0°♋	
morning rise	11577 Aug 05 12:08	14°♋02'23			11580 Feb 26 04:29	0°♎	
desc. node	11577 Aug 17 08:25	9°♋57'39			11580 Mar 21 13:04	0°♏	
direct	11577 Aug 20 04:51	9°♋47'46			11580 Apr 14 22:05	0°♐	
greatest brilliancy	11577 Aug 30 04:26	11°♋39'02	-4.8m		11580 May 09 10:13	0°♑	
	11577 Sep 26 22:35	0°♍		asc. node	11580 May 24 18:10	18°♑34'31	
morning max el	11577 Oct 08 21:00	11°♍04'25	46°14'33		11580 Jun 03 06:43	0°♋	
	11577 Oct 27 08:11	0°♌			11580 Jun 28 21:11	0°♍	
	11577 Nov 23 10:54	0°♍			11580 Jul 26 05:13	0°♌	
asc. node	11577 Dec 08 07:15	17°♍06'02		evening max el	11580 Jul 31 14:58	5°♌30'38	46°36'56
	11577 Dec 19 07:35	0°♎			11580 Aug 29 06:40	0°♍	
	11578 Jan 13 11:40	0°♏		greatest brilliancy	11580 Sep 08 16:15	5°♍28'36	-4.8m
	11578 Feb 07 05:31	0°♐		desc. node	11580 Sep 13 18:23	7°♍02'41	
	11578 Mar 03 16:46	0°♋		retrograde	11580 Sep 19 17:51	7°♍43'39	
	11578 Mar 27 23:16	0°♎		evening set	11580 Oct 05 13:18	2°♍52'56	
desc. node	11578 Mar 29 23:52	2°♎30'45		min. Earth dist.	11580 Oct 10 03:39	0°♍07'09	0.28221 AU
morning set	11578 Apr 06 08:31	11°♎39'20			11580 Oct 10 08:15	30°♎	
	11578 Apr 21 01:51	0°♏		inferior conj	11580 Oct 11 00:40	29°♏34'28	-6°09'35
max. Earth dist.	11578 May 14 06:17	29°♏00'34	1.71519 AU	minimum elong	11580 Oct 10 14:18	29°♏50'35	6°07'00
	11578 May 15 01:14	0°♐		morning rise	11580 Oct 15 15:51	26°♏46'08	
				direct	11580 Nov 01 04:59	21°♏35'36	
superior conj	11578 May 16 11:21	1°♐46'56	-1°24'53	greatest brilliancy	11580 Nov 10 17:05	23°♏14'08	-4.8m
minimum elong	11578 May 16 05:34	1°♐28'49	1°25'27		11580 Nov 24 01:36	0°♍	
	11578 Jun 07 22:50	0°♑		morning max el	11580 Dec 19 23:08	21°♍29'55	45°42'39
evening rise	11578 Jun 25 18:06	22°♑20'52			11580 Dec 28 13:27	0°♎	
	11578 Jul 01 20:35	0°♋		asc. node	11581 Jan 04 19:01	7°♎28'32	
asc. node	11578 Jul 20 16:19	23°♋32'46			11581 Jan 25 10:21	0°♏	
	11578 Jul 25 20:27	0°♍			11581 Feb 20 10:38	0°♐	
	11578 Aug 19 00:13	0°♌			11581 Mar 17 13:55	0°♋	
	11578 Sep 12 10:03	0°♍			11581 Apr 11 05:10	0°♎	
	11578 Oct 07 05:36	0°♎		desc. node	11581 Apr 26 13:26	18°♎54'11	
	11578 Nov 01 17:27	0°♏			11581 May 05 12:30	0°♏	
desc. node	11578 Nov 09 12:23	8°♏55'50			11581 May 29 14:20	0°♐	
	11578 Nov 28 10:21	0°♐		morning set	11581 Jun 20 16:48	27°♐41'23	
evening max el	11578 Dec 24 03:54	26°♐30'00	45°51'33		11581 Jun 22 12:59	0°♑	
	11578 Dec 27 20:47	0°♋			11581 Jul 16 10:46	0°♋	
greatest brilliancy	11579 Feb 01 04:25	24°♋47'33	-4.8m				
retrograde	11579 Feb 11 01:14	26°♋33'48		superior conj	11581 Jul 30 12:53	17°♋39'38	-0°41'29
evening set	11579 Feb 25 18:44	22°♋19'23		minimum elong	11581 Jul 30 22:22	18°♋09'17	0°41'37



max. Earth dist.	11581 Aug 01 18:38	20°Ω27'52	1.71610 AU	morning rise	11583 Dec 25 10:07	5°Σ16'03	
	11581 Aug 09 09:30	0°Π			11584 Jan 06 22:04	30°RΣ'	
asc. node	11581 Aug 17 05:35	9°Π47'52		direct	11584 Jan 11 17:56	29°Σ131'54	
	11581 Sep 02 10:18	0°Ω			11584 Jan 16 16:47	0°Σ	
evening rise	11581 Sep 07 20:15	6°Ω44'21		greatest brilliancy	11584 Jan 22 11:53	1°Σ38'05	-4.8m
	11581 Sep 26 14:02	0°Π		asc. node	11584 Feb 02 05:36	7°Σ08'20	
	11581 Oct 20 22:02	0°Σ			11584 Feb 29 14:38	0°≈	
	11581 Nov 14 12:24	0°Σ		morning max el	11584 Mar 01 02:43	0°≈29'37	45°59'09
desc. node	11581 Dec 06 23:31	27°Σ00'27			11584 Mar 28 23:32	0°Π	
	11581 Dec 09 11:47	0°≈			11584 Apr 24 00:55	0°Υ	
	11582 Jan 03 23:22	0°Π			11584 May 19 02:22	0°Σ	
	11582 Jan 30 05:16	0°Υ		desc. node	11584 May 24 02:41	6°Σ05'25	
	11582 Feb 27 00:59	0°Σ			11584 Jun 12 14:54	0°Π	
evening max el	11582 Mar 05 20:58	6°Σ51'43	46°19'07		11584 Jul 06 20:20	0°Ω	
asc. node	11582 Mar 29 23:37	27°Σ55'25			11584 Jul 30 22:37	0°Ω	
	11582 Apr 01 23:08	0°Π			11584 Aug 24 00:24	0°Π	
greatest brilliancy	11582 Apr 15 01:28	6°Π50'57	-4.8m	morning set	11584 Sep 02 08:37	11°Π37'50	
retrograde	11582 Apr 24 16:25	8°Π35'40		asc. node	11584 Sep 13 19:12	25°Π52'00	
evening set	11582 May 12 05:02	2°Π43'48			11584 Sep 17 02:58	0°Ω	
inferior conj	11582 May 15 10:17	0°Π45'53	8°52'11				
minimum elong	11582 May 15 04:18	0°Π55'08	8°51'04	superior conj	11584 Oct 10 17:39	29°Ω19'25	0°59'21
min. Earth dist.	11582 May 15 12:33	0°Π42'23	0.27365 AU	minimum elong	11584 Oct 10 07:38	28°Ω48'20	0°59'17
	11582 May 16 15:58	30°RΣ			11584 Oct 11 06:44	0°Π	
morning rise	11582 May 18 03:30	29°Σ05'40		max. Earth dist.	11584 Oct 12 18:19	1°Π50'21	1.72647 AU
direct	11582 Jun 05 04:41	22°Σ51'03			11584 Nov 04 12:06	0°Σ	
greatest brilliancy	11582 Jun 15 02:12	24°Σ41'29	-4.9m	evening rise	11584 Nov 16 17:21	15°Σ05'24	
	11582 Jun 25 15:28	0°Π			11584 Nov 28 19:56	0°Σ	
desc. node	11582 Jul 20 00:04	20°Π02'09			11584 Dec 23 07:19	0°≈	
morning max el	11582 Jul 25 15:46	25°Π35'49	46°55'42	desc. node	11585 Jan 03 11:33	13°≈37'44	
	11582 Jul 29 23:34	0°Ω			11585 Jan 16 22:49	0°Π	
	11582 Aug 26 12:12	0°Ω			11585 Feb 10 18:31	0°Υ	
	11582 Sep 21 10:38	0°Π			11585 Mar 07 19:25	0°Σ	
	11582 Oct 16 17:38	0°Ω			11585 Apr 02 06:06	0°Π	
asc. node	11582 Nov 09 20:30	29°Ω00'34		asc. node	11585 Apr 26 09:31	27°Π29'20	
	11582 Nov 10 16:10	0°Π			11585 Apr 28 16:10	0°Ω	
	11582 Dec 05 08:43	0°Σ		evening max el	11585 May 17 23:39	20°Ω23'35	46°49'19
	11582 Dec 29 20:49	0°Σ			11585 May 27 22:55	0°Ω	
morning set	11583 Jan 22 19:53	29°Σ29'00		greatest brilliancy	11585 Jun 27 05:49	21°Ω03'03	-4.9m
	11583 Jan 23 05:57	0°≈		retrograde	11585 Jul 07 07:48	22°Ω57'38	
	11583 Feb 16 13:03	0°Π		evening set	11585 Jul 22 21:45	18°Ω11'31	
max. Earth dist.	11583 Feb 27 05:37	13°Π13'47	1.72681 AU	inferior conj	11585 Jul 28 00:24	15°Ω09'14	4°48'05
desc. node	11583 Mar 01 11:56	16°Π02'00		minimum elong	11585 Jul 28 10:13	14°Ω54'15	4°44'46
				min. Earth dist.	11585 Jul 28 03:55	15°Ω03'51	0.27057 AU
superior conj	11583 Mar 01 14:32	16°Π10'05	-0°00'16	morning rise	11585 Aug 02 22:53	11°Ω40'28	
minimum elong	11583 Mar 01 14:31	16°Π09'59	0°00'01	desc. node	11585 Aug 16 10:23	7°Ω25'15	
behind sun begin	11583 Feb 28 18:18	15°Π07'22		direct	11585 Aug 17 18:12	7°Ω23'08	
behind sun end	11583 Mar 02 10:43	17°Π12'37		greatest brilliancy	11585 Aug 27 16:39	9°Ω13'47	-4.8m
	11583 Mar 12 18:19	0°Υ			11585 Sep 27 03:48	0°Π	
	11583 Apr 05 21:30	0°Σ		morning max el	11585 Oct 06 11:28	8°Π46'08	46°16'14
evening rise	11583 Apr 09 10:47	4°Σ25'34			11585 Oct 27 01:50	0°Ω	
	11583 Apr 29 22:53	0°Π			11585 Nov 23 01:04	0°Π	
	11583 May 23 23:53	0°Ω		asc. node	11585 Dec 07 09:19	16°Π33'53	
	11583 Jun 17 02:49	0°Ω			11585 Dec 18 20:08	0°Σ	
asc. node	11583 Jun 22 05:45	6°Ω20'35			11586 Jan 12 23:23	0°Σ	
	11583 Jul 11 10:47	0°Π			11586 Feb 06 16:47	0°≈	
	11583 Aug 05 04:01	0°Ω			11586 Mar 03 03:49	0°Π	
	11583 Aug 30 14:15	0°Π			11586 Mar 27 10:15	0°Υ	
	11583 Sep 26 11:48	0°Σ		desc. node	11586 Mar 29 01:41	2°Υ02'21	
evening max el	11583 Oct 11 12:43	15°Σ23'31	46°01'55	morning set	11586 Apr 03 21:21	9°Υ16'01	
desc. node	11583 Oct 12 04:07	16°Σ00'59			11586 Apr 20 12:49	0°Σ	
	11583 Oct 27 16:33	0°Σ		max. Earth dist.	11586 May 11 13:52	26°Σ19'34	1.71544 AU
greatest brilliancy	11583 Nov 19 17:10	14°Σ12'31	-4.7m				
retrograde	11583 Nov 29 19:33	16°Σ04'11		superior conj	11586 May 13 23:06	29°Σ18'57	-1°23'51
evening set	11583 Dec 17 19:20	9°Σ58'34		minimum elong	11586 May 13 16:27	28°Σ58'07	1°24'22
inferior conj	11583 Dec 21 07:38	7°Σ48'00	-8°07'13		11586 May 14 12:12	0°Π	
minimum elong	11583 Dec 21 14:45	7°Σ36'50	8°05'42		11586 Jun 07 09:49	0°Ω	
min. Earth dist.	11583 Dec 21 14:04	7°Σ37'54	0.29008 AU	evening rise	11586 Jun 23 05:01	19°Ω49'56	

	11586 Jul 01 07:39	0°♎			11588 Nov 24 23:10	0°♍	
asc. node	11586 Jul 19 18:12	23°♎03'48		morning max el	11588 Dec 17 12:46	19°♍12'46	45°43'09
	11586 Jul 25 07:39	0°♎			11588 Dec 28 08:52	0°♎	
	11586 Aug 18 11:38	0°♎		asc. node	11589 Jan 03 20:53	6°♎46'36	
	11586 Sep 11 21:48	0°♍			11589 Jan 25 01:05	0°♎	
	11586 Oct 06 17:58	0°♎			11589 Feb 19 23:31	0°♎	
	11586 Nov 01 07:02	0°♎			11589 Mar 17 01:54	0°♎	
desc. node	11586 Nov 08 14:26	8°♎21'26			11589 Apr 10 16:41	0°♎	
	11586 Nov 28 02:40	0°♎		desc. node	11589 Apr 25 15:27	18°♎25'21	
evening max el	11586 Dec 21 18:57	24°♎16'40	45°51'09		11589 May 04 23:45	0°♎	
	11586 Dec 27 21:44	0°♎			11589 May 29 01:28	0°♎	
greatest brilliancy	11587 Jan 29 19:47	22°♎33'16	-4.8m	morning set	11589 Jun 18 04:12	25°♎11'51	
retrograde	11587 Feb 08 15:20	24°♎18'19			11589 Jun 22 00:03	0°♎	
evening set	11587 Feb 23 10:25	20°♎02'54			11589 Jul 15 21:47	0°♎	
inferior conj	11587 Mar 01 17:04	16°♎18'07	0°00'50				
minimum elong	11587 Mar 01 17:01	16°♎18'11	0°01'04	superior conj	11589 Jul 28 01:09	15°♎13'21	-0°44'49
transit middle	11587 Mar 01 17:01	16°♎18'11	0°01'04	minimum elong	11589 Jul 28 11:11	15°♎44'46	0°44'57
transit begin	11587 Mar 01 12:59	16°♎24'30		max. Earth dist.	11589 Jul 30 01:05	17°♎43'29	1.71581 AU
transit end	11587 Mar 01 21:04	16°♎11'52			11589 Aug 08 20:28	0°♎	
asc. node	11587 Mar 01 15:44	16°♎20'12		asc. node	11589 Aug 16 07:22	9°♎19'12	
min. Earth dist.	11587 Mar 02 02:04	16°♎04'03	0.27990 AU		11589 Sep 01 21:15	0°♎	
morning rise	11587 Mar 07 23:10	12°♎33'19		evening rise	11589 Sep 05 10:32	4°♎25'23	
direct	11587 Mar 22 21:00	8°♎11'36			11589 Sep 26 01:02	0°♎	
greatest brilliancy	11587 Apr 02 13:07	10°♎18'41	-4.8m		11589 Oct 20 09:13	0°♎	
	11587 May 01 01:26	0°♎			11589 Nov 13 23:57	0°♎	
morning max el	11587 May 12 01:04	10°♎30'55	46°43'08	desc. node	11589 Dec 06 01:30	26°♎30'24	
	11587 May 30 12:46	0°♎			11589 Dec 08 23:57	0°♎	
desc. node	11587 Jun 21 14:58	25°♎03'25			11590 Jan 03 12:38	0°♎	
	11587 Jun 25 20:36	0°♎			11590 Jan 29 20:42	0°♎	
	11587 Jul 21 01:07	0°♎			11590 Feb 26 21:46	0°♎	
	11587 Aug 14 17:42	0°♎		evening max el	11590 Mar 03 10:30	4°♎30'54	46°17'58
	11587 Sep 08 05:22	0°♎		asc. node	11590 Mar 29 01:38	26°♎38'14	
	11587 Oct 02 15:04	0°♎			11590 Apr 03 06:34	0°♎	
asc. node	11587 Oct 12 09:02	12°♎00'11		greatest brilliancy	11590 Apr 12 13:52	4°♎27'08	-4.8m
	11587 Oct 26 23:36	0°♎		retrograde	11590 Apr 22 05:55	6°♎12'56	
morning set	11587 Nov 12 20:59	20°♎50'18		evening set	11590 May 09 14:16	0°♎26'32	
	11587 Nov 20 07:10	0°♎			11590 May 10 08:02	30°♎	
	11587 Dec 14 14:23	0°♎		inferior conj	11590 May 12 23:42	28°♎22'34	8°45'07
				minimum elong	11590 May 12 16:56	28°♎33'02	8°43'51
superior conj	11587 Dec 19 14:40	6°♎11'04	1°20'51	min. Earth dist.	11590 May 13 01:25	28°♎19'56	0.27384 AU
minimum elong	11587 Dec 19 20:56	6°♎30'24	1°21'29	morning rise	11590 May 15 19:31	26°♎38'36	
max. Earth dist.	11587 Dec 20 03:58	6°♎52'06	1.73194 AU	direct	11590 Jun 02 18:19	20°♎27'09	
	11588 Jan 07 22:05	0°♎		greatest brilliancy	11590 Jun 12 15:59	22°♎18'07	-4.9m
evening rise	11588 Jan 25 23:08	22°♎13'38			11590 Jun 26 19:10	0°♎	
desc. node	11588 Feb 01 00:18	29°♎40'32		desc. node	11590 Jul 19 02:01	19°♎06'33	
	11588 Feb 01 06:38	0°♎		morning max el	11590 Jul 23 06:26	23°♎14'54	46°56'16
	11588 Feb 25 15:36	0°♎			11590 Jul 29 20:30	0°♎	
	11588 Mar 21 00:29	0°♎			11590 Aug 26 03:58	0°♎	
	11588 Apr 14 09:57	0°♎			11590 Sep 21 00:14	0°♎	
	11588 May 08 22:46	0°♎			11590 Oct 16 06:01	0°♎	
asc. node	11588 May 23 20:10	18°♎01'02		asc. node	11590 Nov 08 22:32	28°♎31'25	
	11588 Jun 02 20:21	0°♎			11590 Nov 10 03:48	0°♎	
	11588 Jun 28 12:52	0°♎			11590 Dec 04 19:54	0°♎	
	11588 Jul 26 02:06	0°♎			11590 Dec 29 07:44	0°♎	
evening max el	11588 Jul 29 04:44	3°♎08'55	46°38'01	morning set	11591 Jan 20 12:39	27°♎19'30	
	11588 Aug 30 16:14	0°♎			11591 Jan 22 16:43	0°♎	
greatest brilliancy	11588 Sep 06 08:12	3°♎12'29	-4.8m		11591 Feb 15 23:47	0°♎	
desc. node	11588 Sep 12 20:17	5°♎03'17		max. Earth dist.	11591 Feb 25 01:01	11°♎11'57	1.72712 AU
retrograde	11588 Sep 17 08:37	5°♎26'57					
evening set	11588 Oct 03 01:26	0°♎40'42		superior conj	11591 Feb 27 05:23	13°♎54'06	0°03'18
	11588 Oct 04 05:47	30°♎		minimum elong	11591 Feb 27 06:13	13°♎56'40	0°03'33
min. Earth dist.	11588 Oct 07 18:54	27°♎50'46	0.28164 AU	behind sun begin	11591 Feb 26 06:38	12°♎43'38	
inferior conj	11588 Oct 08 15:32	27°♎18'42	-5°54'08	behind sun end	11591 Feb 28 05:48	15°♎09'43	
minimum elong	11588 Oct 08 05:14	27°♎34'43	5°51'29	desc. node	11591 Feb 28 13:47	15°♎34'26	
morning rise	11588 Oct 13 09:32	24°♎26'16			11591 Mar 12 05:04	0°♎	
direct	11588 Oct 29 18:46	19°♎20'31			11591 Apr 05 08:20	0°♎	
greatest brilliancy	11588 Nov 08 07:53	20°♎59'26	-4.8m	evening rise	11591 Apr 07 00:45	2°♎05'49	

	11591 Apr 29 09:53	0°♐			11593 Nov 22 14:54	0°♌		
	11591 May 23 11:04	0°♌		asc. node	11593 Dec 06 11:09	16°♌01'42		
	11591 Jun 16 14:18	0°♌			11593 Dec 18 08:27	0°♌		
asc. node	11591 Jun 21 07:39	5°♌50'39			11594 Jan 12 10:53	0°♌		
	11591 Jul 10 22:45	0°♍			11594 Feb 06 03:49	0°♍		
	11591 Aug 04 16:49	0°♍			11594 Mar 02 14:38	0°♍		
	11591 Aug 30 04:35	0°♌			11594 Mar 26 20:57	0°♍		
	11591 Sep 26 05:47	0°♌		desc. node	11594 Mar 28 03:36	1°♍35'05		
evening max el	11591 Oct 09 04:42	13°♌11'53	46°03'02	morning set	11594 Apr 01 10:09	6°♍53'30		
desc. node	11591 Oct 11 06:15	15°♌11'48			11594 Apr 19 23:29	0°♌		
	11591 Oct 28 02:05	0°♌		max. Earth dist.	11594 May 08 19:23	23°♌33'06	1.71571 AU	
greatest brilliancy	11591 Nov 17 07:27	12°♌00'26	-4.8m					
retrograde	11591 Nov 27 11:59	13°♌53'37		superior conj	11594 May 11 11:01	26°♌52'27	-1°22'40	
evening set	11591 Dec 15 13:18	7°♌44'37		minimum elong	11594 May 11 03:32	26°♌29'01	1°23'07	
inferior conj	11591 Dec 18 23:36	5°♌37'00	-8°14'23		11594 May 13 22:52	0°♐		
minimum elong	11591 Dec 19 06:08	5°♌26'45	8°12'58		11594 Jun 06 20:31	0°♌		
min. Earth dist.	11591 Dec 19 04:35	5°♌29'10	0.29019 AU	evening rise	11594 Jun 20 16:06	17°♌20'30		
morning rise	11591 Dec 22 22:57	3°♌09'52			11594 Jun 30 18:23	0°♌		
	11591 Dec 28 22:02	30°♌♌		asc. node	11594 Jul 18 20:01	22°♌35'44		
direct	11592 Jan 09 10:27	27°♌21'09			11594 Jul 24 18:29	0°♍		
greatest brilliancy	11592 Jan 20 02:21	29°♌25'51	-4.8m		11594 Aug 17 22:39	0°♍		
	11592 Jan 21 13:10	0°♌			11594 Sep 11 09:10	0°♌		
asc. node	11592 Feb 01 07:34	5°♌52'32			11594 Oct 06 06:01	0°♌		
morning max el	11592 Feb 27 19:07	28°♌18'40	45°57'51		11594 Oct 31 20:27	0°♌		
	11592 Feb 29 12:12	0°♍		desc. node	11594 Nov 07 16:23	7°♌47'23		
	11592 Mar 28 14:58	0°♍			11594 Nov 27 19:04	0°♍		
	11592 Apr 23 14:10	0°♍		evening max el	11594 Dec 19 09:08	22°♍01'48	45°50'43	
	11592 May 18 14:34	0°♌			11594 Dec 27 23:51	0°♍		
desc. node	11592 May 23 04:36	5°♌34'36		greatest brilliancy	11595 Jan 27 11:14	20°♌19'27	-4.8m	
	11592 Jun 12 02:31	0°♐		retrograde	11595 Feb 06 05:11	22°♌03'27		
	11592 Jul 06 07:34	0°♌		evening set	11595 Feb 21 02:05	17°♌46'29		
	11592 Jul 30 09:37	0°♌		inferior conj	11595 Feb 27 07:57	14°♌02'58	-0°21'11	
	11592 Aug 23 11:14	0°♍		minimum elong	11595 Feb 27 08:45	14°♌01'44	0°20'39	
morning set	11592 Aug 30 22:56	9°♍19'28		min. Earth dist.	11595 Feb 27 18:02	13°♌47'13	0.28027 AU	
asc. node	11592 Sep 12 21:08	25°♍24'38		asc. node	11595 Feb 28 17:46	13°♌10'10		
	11592 Sep 16 13:41	0°♍		morning rise	11595 Mar 05 14:48	10°♌16'41		
				direct	11595 Mar 20 11:39	5°♌55'47		
superior conj	11592 Oct 08 09:18	27°♍06'00	0°56'48	greatest brilliancy	11595 Mar 31 05:41	8°♌04'07	-4.8m	
minimum elong	11592 Oct 07 23:20	26°♍35'04	0°56'41		11595 May 01 04:00	0°♍		
max. Earth dist.	11592 Oct 10 12:35	29°♍45'06	1.72617 AU	morning max el	11595 May 09 14:38	8°♍10'06	46°41'48	
	11592 Oct 10 17:23	0°♌			11595 May 30 05:39	0°♌		
	11592 Nov 03 22:44	0°♌		desc. node	11595 Jun 20 16:48	24°♌27'08		
evening rise	11592 Nov 14 09:54	12°♌55'33			11595 Jun 25 10:33	0°♐		
	11592 Nov 28 06:39	0°♌			11595 Jul 20 13:40	0°♌		
	11592 Dec 22 18:14	0°♍			11595 Aug 14 05:26	0°♌		
desc. node	11593 Jan 02 13:21	13°♍09'33			11595 Sep 07 16:34	0°♍		
	11593 Jan 16 10:06	0°♍			11595 Oct 02 01:53	0°♍		
	11593 Feb 10 06:23	0°♍		asc. node	11595 Oct 11 10:58	11°♍33'13		
	11593 Mar 07 08:11	0°♌			11595 Oct 26 10:08	0°♌		
	11593 Apr 01 20:25	0°♐		morning set	11595 Nov 10 13:40	18°♌41'26		
asc. node	11593 Apr 25 11:36	26°♐47'55			11595 Nov 19 17:34	0°♌		
	11593 Apr 28 09:44	0°♌			11595 Dec 14 00:46	0°♌		
evening max el	11593 May 15 14:10	18°♌03'23	46°48'55					
	11593 May 28 03:22	0°♌		superior conj	11595 Dec 17 07:57	4°♌04'20	1°21'55	
greatest brilliancy	11593 Jun 24 20:16	18°♌40'57	-4.9m	minimum elong	11595 Dec 17 13:38	4°♌21'49	1°22'35	
retrograde	11593 Jul 04 21:20	20°♌34'11		max. Earth dist.	11595 Dec 17 20:48	4°♌43'57	1.73195 AU	
evening set	11593 Jul 20 14:07	15°♌44'20			11596 Jan 07 08:32	0°♍		
inferior conj	11593 Jul 25 13:31	12°♌46'16	5°08'29	evening rise	11596 Jan 23 15:10	20°♍02'52		
minimum elong	11593 Jul 25 23:45	12°♌30'36	5°05'06	desc. node	11596 Jan 31 02:12	29°♍13'47		
min. Earth dist.	11593 Jul 25 17:40	12°♌39'55	0.27049 AU		11596 Jan 31 17:13	0°♍		
morning rise	11593 Jul 31 09:36	9°♌20'28			11596 Feb 25 02:23	0°♍		
direct	11593 Aug 15 07:32	5°♌00'25			11596 Mar 20 11:34	0°♌		
desc. node	11593 Aug 15 12:19	5°♌00'28			11596 Apr 13 21:29	0°♐		
greatest brilliancy	11593 Aug 25 05:21	6°♌50'28	-4.8m		11596 May 08 10:59	0°♌		
	11593 Sep 27 06:45	0°♍		asc. node	11596 May 22 22:02	17°♌28'17		
morning max el	11593 Oct 04 01:11	6°♍26'50	46°17'38		11596 Jun 02 09:41	0°♌		
	11593 Oct 26 18:50	0°♍			11596 Jun 28 04:20	0°♍		

	11596 Jul 25 23:11	0°♄			11598 Dec 28 18:20	0°♁		
evening max el	11596 Jul 26 18:33	0°♄48'39	46°39'12	morning set	11599 Jan 18 05:45	25°♁12'02		
	11596 Sep 01 17:31	0°♄			11599 Jan 22 03:11	0°♁		
greatest brilliancy	11596 Sep 03 23:48	0°♄57'21	-4.8m		11599 Feb 15 10:14	0°♁		
desc. node	11596 Sep 11 22:25	3°♄01'01		max. Earth dist.	11599 Feb 22 19:42	9°♁08'45	1.72748 AU	
retrograde	11596 Sep 14 23:46	3°♄12'01						
	11596 Sep 27 16:39	30°♄		superior conj	11599 Feb 24 20:24	11°♁39'27	0°06'49	
evening set	11596 Sep 30 13:45	28°♄29'39		minimum elong	11599 Feb 24 22:03	11°♁44'36	0°07'02	
min. Earth dist.	11596 Oct 05 10:07	25°♄36'07	0.28108 AU	behind sun begin	11599 Feb 24 00:16	10°♁37'11		
inferior conj	11596 Oct 06 06:28	25°♄04'33	-5°37'56	behind sun end	11599 Feb 25 19:50	12°♁52'02		
minimum elong	11596 Oct 05 20:18	25°♄20'20	5°35'16	desc. node	11599 Feb 27 15:46	15°♁08'01		
morning rise	11596 Oct 11 03:19	22°♄08'15			11599 Mar 11 15:37	0°♁		
direct	11596 Oct 27 08:33	17°♄06'55		evening rise	11599 Apr 04 14:34	29°♁46'05		
greatest brilliancy	11596 Nov 05 22:44	18°♄46'33	-4.8m		11599 Apr 04 19:02	0°♁		
	11596 Nov 25 14:19	0°♄			11599 Apr 28 20:45	0°♁		
morning max el	11596 Dec 15 03:18	16°♄59'17	45°43'35		11599 May 22 22:08	0°♁		
	11596 Dec 28 03:12	0°♄			11599 Jun 16 01:40	0°♁		
asc. node	11597 Jan 02 22:51	6°♄06'46		asc. node	11599 Jun 20 09:31	5°♁21'01		
	11597 Jan 24 15:13	0°♁			11599 Jul 10 10:36	0°♁		
	11597 Feb 19 11:59	0°♁			11599 Aug 04 05:30	0°♄		
	11597 Mar 16 13:33	0°♁			11599 Aug 29 18:52	0°♄		
	11597 Apr 10 03:52	0°♁			11599 Sep 25 23:57	0°♄		
desc. node	11597 Apr 24 17:22	17°♁57'14		evening max el	11599 Oct 06 21:09	11°♄01'55	46°04'07	
	11597 May 04 10:40	0°♁		desc. node	11599 Oct 10 08:13	14°♄22'01		
	11597 May 28 12:13	0°♁			11599 Oct 28 14:33	0°♁		
morning set	11597 Jun 15 15:27	22°♁43'02		greatest brilliancy	11599 Nov 14 22:20	9°♁49'54	-4.8m	
	11597 Jun 21 10:44	0°♁		retrograde	11599 Nov 25 04:15	11°♁43'54		
	11597 Jul 15 08:24	0°♁		evening set	11599 Dec 13 07:15	5°♁32'06		
				inferior conj	11599 Dec 16 15:42	3°♁27'05	-8°20'44	
superior conj	11597 Jul 25 13:19	12°♁47'56	-0°48'05	minimum elong	11599 Dec 16 21:37	3°♁17'47	8°19'28	
minimum elong	11597 Jul 25 23:51	13°♁20'53	0°48'13	min. Earth dist.	11599 Dec 16 19:17	3°♁21'25	0.29024 AU	
max. Earth dist.	11597 Jul 27 09:13	15°♁05'28	1.71555 AU	morning rise	11599 Dec 20 12:00	1°♁04'25		
	11597 Aug 08 07:03	0°♁			11599 Dec 22 08:17	30°♄		
asc. node	11597 Aug 15 09:20	8°♁52'16		direct	11600 Jan 07 03:04	25°♄11'40		
	11597 Sep 01 07:49	0°♄		greatest brilliancy	11600 Jan 17 16:34	27°♄14'14	-4.7m	
evening rise	11597 Sep 03 00:54	2°♄07'49			11600 Jan 23 18:54	0°♁		
	11597 Sep 25 11:40	0°♄		asc. node	11600 Jan 31 09:35	4°♁39'56		
	11597 Oct 19 20:01	0°♄		morning max el	11600 Feb 25 10:51	26°♁06'55	45°56'31	
	11597 Nov 13 11:06	0°♁			11600 Feb 29 08:41	0°♁		
desc. node	11597 Dec 05 03:23	26°♁01'10			11600 Mar 28 05:59	0°♁		
	11597 Dec 08 11:46	0°♁			11600 Apr 23 03:13	0°♁		
	11598 Jan 03 01:38	0°♁			11600 May 18 02:42	0°♁		
	11598 Jan 29 12:03	0°♁		desc. node	11600 May 22 06:26	5°♁03'37		
	11598 Feb 26 19:05	0°♁			11600 Jun 11 14:07	0°♁		
evening max el	11598 Mar 01 00:57	2°♁13'04	46°16'38		11600 Jul 05 18:49	0°♁		
asc. node	11598 Mar 28 03:43	25°♁18'56			11600 Jul 29 20:36	0°♁		
	11598 Apr 05 04:54	0°♁			11600 Aug 22 22:01	0°♁		
greatest brilliancy	11598 Apr 10 01:48	2°♁03'06	-4.8m	morning set	11600 Aug 28 13:00	7°♁00'25		
retrograde	11598 Apr 19 19:36	3°♁50'08		asc. node	11600 Sep 11 23:01	24°♁57'17		
	11598 May 03 16:11	30°♄			11600 Sep 16 00:20	0°♄		
evening set	11598 May 06 23:09	28°♁09'37						
inferior conj	11598 May 10 12:55	25°♁59'16	8°37'01	superior conj	11600 Oct 06 00:51	24°♄52'30	0°54'08	
minimum elong	11598 May 10 05:25	26°♁10'50	8°35'36	minimum elong	11600 Oct 05 15:01	24°♄21'59	0°54'01	
min. Earth dist.	11598 May 10 13:53	25°♁57'46	0.27398 AU	max. Earth dist.	11600 Oct 08 07:15	27°♄41'18	1.72582 AU	
morning rise	11598 May 13 11:37	24°♁11'05			11600 Oct 10 03:58	0°♄		
direct	11598 May 31 08:11	18°♁03'34			11600 Nov 03 09:19	0°♄		
greatest brilliancy	11598 Jun 10 05:05	19°♁54'21	-4.9m	evening rise	11600 Nov 12 02:36	10°♄46'16		
	11598 Jun 27 15:07	0°♁			11600 Nov 27 17:19	0°♁		
desc. node	11598 Jul 18 04:02	18°♁13'04			11600 Dec 22 05:07	0°♁		
morning max el	11598 Jul 20 21:20	20°♁55'31	46°56'51	desc. node	11601 Jan 01 15:19	12°♁41'59		
	11598 Jul 29 16:25	0°♁			11601 Jan 15 21:21	0°♁		
	11598 Aug 25 19:08	0°♁			11601 Feb 09 18:14	0°♁		
	11598 Sep 20 13:21	0°♁			11601 Mar 06 20:58	0°♁		
	11598 Oct 15 18:00	0°♄			11601 Apr 01 10:52	0°♁		
asc. node	11598 Nov 08 00:19	28°♄02'33		asc. node	11601 Apr 24 13:26	26°♁05'09		
	11598 Nov 09 15:06	0°♄			11601 Apr 28 03:47	0°♁		
	11598 Dec 04 06:45	0°♄		evening max el	11601 May 13 03:47	15°♁40'22	46°48'09	

	11601 May 28 10:13	0°♌	
greatest brilliancy	11601 Jun 22 11:01	16°♌17'54	-4.9m
retrograde	11601 Jul 02 09:59	18°♌09'10	
evening set	11601 Jul 18 06:20	13°♌15'23	
inferior conj	11601 Jul 23 02:23	10°♌21'53	5°28'27
minimum elong	11601 Jul 23 12:58	10°♌05'38	5°25'02
min. Earth dist.	11601 Jul 23 07:33	10°♌13'57	0.27044 AU
morning rise	11601 Jul 28 19:46	6°♌59'17	
direct	11601 Aug 12 20:08	2°♌36'03	
desc. node	11601 Aug 14 14:25	2°♌39'43	
greatest brilliancy	11601 Aug 22 18:29	4°♌26'13	-4.8m
	11601 Sep 27 08:31	0°♍	
morning max el	11601 Oct 01 13:56	4°♍04'17	46°19'17
	11601 Oct 26 11:38	0°♍	
	11601 Nov 22 04:40	0°♍	
asc. node	11601 Dec 05 13:04	15°♍29'42	
	11601 Dec 17 20:46	0°♎	
	11602 Jan 11 22:24	0°♎	